



Quality Assured in the USA



# **LIGHT DUTY**

## **Medium Duty, and Marine Catalog**

# Measurement Equivalents

FRACTION	DECIMAL	MILLIMETERS
1/64	.01563	.3969
1/32	.03125	.7938
	.03937	1.0000
3/64	.04688	1.1906
<b>1/16</b>	<b>.06250</b>	<b>1.5875</b>
5/64	.07813	1.9844
	.07874	2.0000
3/32	.09375	2.3813
7/64	.10938	2.7781
	.11811	3.0000
<b>1/8</b>	<b>.12500</b>	<b>3.1750</b>
9/64	.14063	3.5719
5/32	.15625	3.9688
	.15748	4.0000
11/64	.17188	4.3656
<b>3/16</b>	<b>.18750</b>	<b>4.7625</b>
	.19685	5.0000
13/64	.20313	5.1594
7/32	.21875	5.5563
15/64	.23438	5.9531
	.23622	6.0000
<b>1/4</b>	<b>.25000</b>	<b>6.3500</b>
17/64	.26563	6.7469
	.27559	7.0000
9/32	.28125	7.1438
19/64	.29688	7.5406
<b>5/16</b>	<b>.31250</b>	<b>7.9375</b>
	.31496	8.0000
21/64	.32813	8.3344
11/32	.34375	8.7313
	.35433	9.0000
23/64	.35938	9.1281
<b>3/8</b>	<b>.37500</b>	<b>9.5250</b>
25/64	.39063	9.9219
	.39370	10.0000
13/32	.40625	10.3188
27/64	.42188	10.7156
	.43307	11.0000
<b>7/16</b>	<b>.43750</b>	<b>11.1125</b>
29/64	.45313	11.5094
15/32	.46875	11.9063
	.47244	12.0000
31/64	.48438	12.3031
<b>1/2</b>	<b>.50000</b>	<b>12.7000</b>

FRACTION	DECIMAL	MILLIMETERS
	.51181	13.0000
33/64	.51563	13.0969
17/32	.53125	13.4938
35/64	.54688	13.8906
	.55118	14.0000
<b>9/16</b>	<b>.56250</b>	<b>14.2875</b>
37/64	.57813	14.6844
	.59055	15.0000
19/32	.59375	15.0813
39/64	.60938	15.4781
<b>5/8</b>	<b>.62500</b>	<b>15.8750</b>
	.62992	16.0000
41/64	.64063	16.2719
21/32	.65625	16.6688
	.66929	17.0000
43/64	.67188	17.0656
<b>11/16</b>	<b>.68750</b>	<b>17.4625</b>
45/64	.70313	17.8594
	.70866	18.0000
23/32	.71875	18.2563
47/64	.73438	18.6531
	.74803	19.0000
<b>3/4</b>	<b>.75000</b>	<b>19.0500</b>
49/64	.76563	19.4469
25/32	.78125	19.8438
	.78740	20.0000
51/64	.79688	20.2406
<b>13/16</b>	<b>.81250</b>	<b>20.6375</b>
	.82677	21.0000
53/64	.82813	21.0344
27/32	.84375	21.4313
55/64	.85938	21.8281
	.86614	22.0000
<b>7/8</b>	<b>.87500</b>	<b>22.2250</b>
57/64	.89063	22.6219
	.90551	23.0000
29/32	.90625	23.0188
59/64	.92188	23.4156
<b>15/16</b>	<b>.93750</b>	<b>23.8125</b>
	.94488	24.0000
61/64	.95313	24.2094
31/32	.96875	24.6063
	.98425	25.0000
63/64	.98438	25.0031
<b>1</b>	<b>1.00000</b>	<b>25.4000</b>

INCHES X 25.4 = MILLIMETERS  
MILLIMETERS X .03937 = INCHES  
CU. IN. X 16.38716 = C.C.  
LITRES X 61.023 = CUBIC INCHES

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**For Heavy Duty, Agricultural, and Industrial Applications, see the latest QualCast Heavy Duty Catalog**  
**For Performance Applications, see the latest QualFast Performance Catalog**

# Product Information

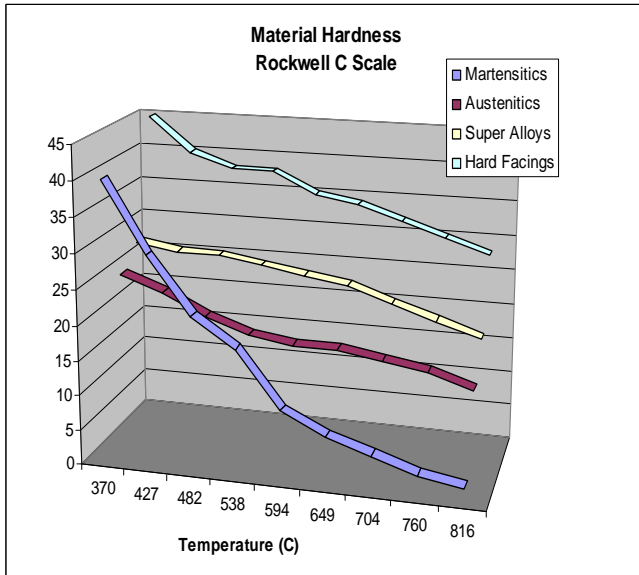
## Engine Valves

QualCast valves are designed to meet or exceed the material and dimensional specifications of the Original Equipment Manufacturer. Valves are forged from either Martensitic steel, Austenitic Steel, or a Superalloy such as Inconel. Each material has a different strength and use depending on the environment in which it operates.

Martensitic Steels are magnetic, iron-based alloys with varying percentages of chromium, carbon, and other elements, and have a very high tensile strength (resistance to breaking). Their strength is increased by tempering and quench hardening. Because intake valves operate in lower temperatures than exhaust valves, they are usually forged in one piece from a Martensitic Steel.

Austenitic Steels are non-magnetic, iron-based alloys with carbon and higher percentages of chromium, nickel, and other higher elements which give the steel greater strength in hotter operating temperatures. All stainless steel valves are forged of Austenitic steel, such as 21-2N, 21-4N, or 23-8N, etc. It is important to note, however, that these steels can not be hardened in

the same way as martensitic steels, and are actually not as hard at lower temperatures. For this reason, most light duty exhaust valves will be forged in one-piece stainless with a wafer of martensitic steel above the keeper groove, at the very tip, to keep the rocker pressure from deforming the tip of the valve. Most heavy duty exhaust valves will be 2-piece valves forged from Austenitic Steel at the head, and friction welded to the stem, made from Martensitic Steel.



Some Superalloys, such as Inconel, are nickel-based and used in exhaust valve heads instead of Austenitic Steel, where conditions require strength in extreme high temperatures.

Other Superalloys, such as Stellite, are cobalt-based and typically used only on the valve seat area of a valve because of their high cost and hot hardness. First the original seat material is removed, and then Stellite or a similar “Hard Facing” is plasma-welded onto the seat area, followed by a re-machining of the surface.

Because of the friction caused between the valve stem and valve guide when the valve opens and closes, most modern valves will have an additional surface treatment of chromium on the stem area, called “chrome plating”. An alternative surface hardening treatment is nitriding, where the complete surface is sodium nitrided, followed by a re-machining of the head area.



ENGINE	YEAR	CYL.	LINE NO.
1598cc (1.6L) SOHC 16V W10B16 Non-TRB [Mini]	2002-08	L4	1
1598cc (1.6L) SOHC 16V W11B16 S/C [Mini]	2002-06	L4	2
1598cc (1.6L) DOHC 16V N12/N16B/A Non-TRB [Mini]	2007-16	L4	3
1598cc (1.6L) DOHC 16V N14B16A/C TRB [Mini]	2007-12	L4	4
1598cc (1.6L) DOHC 16V N18B16A/C TRB [Mini]	2011-16	L4	5
1766cc (1.8L) SOHC 8V M10	1980-85	L4	6
1796cc (1.8L) DOHC 16V M42	1991-95	L4	7
1895cc (1.9L) DOHC 16V M44	1996-99	L4	8
1990cc (2.0L) SOHC 8V M10	1975-79	L4	9
2494cc (2.5L) SOHC M20	1987-93	L6	10
2494cc (2.5L) DOHC 24V M50/52/54B25	1991-00	L6	11
2692cc (2.7L) SOHC 12V M20	1982-88	L6	12
2793cc (2.8L) DOHC 24V M52	1996-01	L6	13
2997cc (3.0L) DOHC S50	1995-96	L6	14
3152cc (3.2L) DOHC 24V S52	1996-01	L6	15
3430cc (3.4L) SOHC 12V M30	1985-93	L6	16
4988cc (5.0L) DOHC 24V M70	1988-94	V12	17
5400cc (5.4L) DOHC 48V M73	1995-98	V12	18

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1598cc (1.6L) SOHC 16V W10B16 Non-TRB [Mini]</b>		<b>2002-08</b>	<b>L4 BORE - 77mm/3.03"</b>
Valve	Exh	2002-08	10-13223	0.917 Head Dia. 0.236 Stem
	Int	2002-08	10-13222	1.193 Head Dia. 0.236 Stem
Guide	Both	2002-08	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2007-08	32-5021	1.715 Free Length. Conical
	Both	2002-06	32-5022	2.050 Free Length
Keeper	Both	2002-08	34-07050	3 Groove. 0.234 Stem
Valve Stem Seal	Both	2002-08	38-20-45	Viton. Top Hat.
<b>LINE 2</b>	<b>1598cc (1.6L) SOHC 16V W11B16 S/C [Mini]</b>		<b>2002-06</b>	<b>L4 BORE - 77mm/3.03"</b>
Valve	Exh	2002-06	10-13223	0.917 Head Dia. 0.236 Stem
	Int	2002-06	10-13222	1.193 Head Dia. 0.236 Stem
Guide	Both	2002-06	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2002-06	32-5022	2.050 Free Length
Keeper	Both	2002-06	34-07050	3 Groove. 0.234 Stem
Valve Stem Seal	Both	2002-06	38-20-45	Viton. Top Hat.
<b>LINE 3</b>	<b>1598cc (1.6L) DOHC 16V N12/N16B/A Non-TRB [Mini]</b>		<b>2007-16</b>	<b>L4 BORE - 77mm/3.03"</b>
Valve	Exh	2007-15	10-13322	0.988 Head Dia. 0.196 Stem
	Int	2007-15	10-13321	1.181 Head Dia. 0.196 Stem
Spring	Both	2007-15	32-5021	1.715 Free Length Conical
Keeper	Both	2007-15	34-5033	3 Round Beads
Valve Stem Seal	Both	2007-15	38-6130-55	Viton. Metal Clad. 0.196 Stem
<b>LINE 4</b>	<b>1598cc (1.6L) DOHC 16V N14B16A/C TRB [Mini]</b>		<b>2007-12</b>	<b>L4 BORE - 77mm/3.03"</b>
Valve	Exh	2007-12	10-13325	1.024 Head Dia. 0.196 Stem
	Int	2007-12	10-13323	1.133 Head Dia. 0.196 Stem
Spring	Both	2007-12	32-5021	1.715 Free Length. Conical
Keeper	Both	2007-12	34-5033	3 Round Beads
Valve Stem Seal	Both	2007-12	38-6130-55	Viton. Metal Clad. 0.196 Stem

# BMW

# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 5</b>	<b>1598cc (1.6L) DOHC 16V N18B16A/C TRB [Mini]</b>			<b>2011-16 L4</b>	<b>BORE - 77mm/3.03"</b>
Valve	Exh	2011-15	10-13325	1.024 Head Dia. 0.196 Stem	
	Int	2011-15	10-13324	1.169 Head Dia. 0.196 Stem	
Spring	Both	2011-15	32-5021	1.715 Free Length. Conical	
Keeper	Both	2011-15	34-5033	3 Round Beads	
Valve Stem Seal	Both	2011-15	38-6130-55	Viton. Metal Clad. 0.196 Stem	
<b>LINE 6</b>	<b>1766cc (1.8L) SOHC 8V M10</b>			<b>1980-85 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve Seat Insert	Exh	1980-85	21-1625-63	1.345T I.D. 1-5/8 O.D. 0.290 Depth	
	Int	1980-85	21-1875-52	1.615T I.D. 1-7/8 O.D. 0.290 Depth	
Guide	Both	1980-85	31-8230	2.040 OAL. Manganese Bronze	
<b>LINE 7</b>	<b>1796cc (1.8L) DOHC 16V M42</b>			<b>1991-95 L4</b>	<b>BORE - 83.8mm/3.30"</b>
Valve	Exh	1992-95	10-10696S	1.198 Head Dia. 0.2343 Stem Dia.	
	Exh	1991-91	10-10730S	1.198 Head Dia. 0.2737 Stem Dia.	
	Int	1992-95	10-10695	1.299 Head Dia. 0.2349 Stem Dia.	
	Int	1991-91	10-10729	1.297 Head Dia. 0.2743 Stem Dia.	
Valve Seat Insert	Exh	1991-95	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
	Int	1991-95	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
<b>LINE 8</b>	<b>1895cc (1.9L) DOHC 16V M44</b>			<b>1996-99 L4</b>	<b>BORE - 85mm/3.35"</b>
Valve	Exh	1996-99	10-10696S	1.198 Head Dia. 0.2343 Stem Dia.	
	Int	1996-99	10-10695	1.299 Head Dia. 0.2349 Stem Dia.	
<b>LINE 9</b>	<b>1990cc (2.0L) SOHC 8V M10</b>			<b>1975-79 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve Seat Insert	Exh	1975-79	21-1625-63	1.345T I.D. 1-5/8 O.D. 0.290 Depth	
	Int	1975-79	21-1875-52	1.615T I.D. 1-7/8 O.D. 0.290 Depth	
<b>LINE 10</b>	<b>2494cc (2.5L) SOHC M20</b>			<b>1987-93 L6</b>	<b>BORE - 84mm/3.31"</b>
Valve	Exh	1988-93	10-10374S	1.415 Head Dia.	
	Int	1988-93	10-10373	1.654 Head Dia.	
	Int	1987-87	10-10375	1.570 Head Dia.	
Valve Seat Insert	Int	1987-93	21-1500-62	1.220T I.D. 1-1/2 O.D. 0.310 Depth.	
	Int	1987-93	21-1750-60	1.437T I.D. 1-3/4 O.D. 0.302 Depth.	
Valve Stem Seal	Both	1987-93	38-978-55	Viton. Metal Clad	
<b>LINE 11</b>	<b>2494cc (2.5L) DOHC 24V M50/52/54B25</b>			<b>1991-00 L6</b>	<b>BORE - 84mm/3.31"</b>
Valve	Exh	1993-00	10-10696S	1.198 Head Dia. 0.2343 Stem Dia.	
	Int	1993-00	10-10695	1.299 Head Dia. 0.2349 Stem Dia.	
	Int	1991-92	10-10729	1.297 Head Dia. 0.2743 Stem Dia.	
Valve Seat Insert	Exh	1991-00	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
	Int	1991-00	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
Valve Stem Seal	Both	1993-00	38-1329-45	Viton. Metal Clad.	
<b>LINE 12</b>	<b>2692cc (2.7L) SOHC 12V M20</b>			<b>1982-88 L6</b>	<b>BORE - 84mm/3.31"</b>
Valve Seat Insert	Exh	1986-88	21-1500-62	1.220T I.D. 1-1/2 O.D. 0.310 Depth.	
	Int	1982-85	21-1687-57	1.335T I.D. 1-11/16 O.D. 0.275 Depth.	
	Int	1986-88	21-1750-60	1.437T I.D. 1-3/4 O.D. 0.302 Depth.	
Valve Stem Seal	Both	1982-88	38-978-55	Viton. Metal Clad.	

**BMW****PASSENGER CAR & TRUCK**

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 13</b>	<b>2793cc (2.8L) DOHC 24V M52</b>				<b>1996-01 L6 BORE - 84mm/3.31"</b>
Valve	Exh	1996-00	<b>10-10696S</b>	1.198 Head Dia. 0.2343 Stem Dia.	
	Int	1996-00	<b>10-10695</b>	1.299 Head Dia. 0.2349 Stem Dia.	
<b>LINE 14</b>	<b>2997cc (3.0L) DOHC S50</b>				<b>1995-96 L6 BORE - 86mm/3.39"</b>
Valve	Exh	1995-96	<b>10-10696S</b>	1.198 Head Dia. 0.2343 Stem Dia.	
	Int	1995-96	<b>10-10695</b>	1.299 Head Dia. 0.2349 Stem Dia.	
Valve Seat Insert	Int	1995-96	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
<b>LINE 15</b>	<b>3152cc (3.2L) DOHC 24V S52</b>				<b>1996-01 L6 BORE - 86.4mm/3.40"</b>
Valve	Exh	1996-01	<b>10-10696S</b>	1.198 Head Dia. 0.2343 Stem Dia.	
	Int	1996-01	<b>10-10695</b>	1.299 Head Dia. 0.2349 Stem Dia.	
<b>LINE 16</b>	<b>3430cc (3.4L) SOHC 12V M30</b>				<b>1985-93 L6 BORE - 92mm/3.60"</b>
Valve Seat Insert	Exh	1987-93	<b>21-1625-56</b>	1.298T I.D. 1-5/8 O.D. 0.317 Depth	
<b>LINE 17</b>	<b>4988cc (5.0L) DOHC 24V M70</b>				<b>1988-94 V12 BORE - 84mm/3.31"</b>
Valve Seat Insert	Exh	1988-94	<b>21-1500-63</b>	1.210T I.D. 1-1/2 O.D. 0.345 Depth.	
	Int	1988-94	<b>21-1750-60</b>	1.437T I.D. 1-3/4 O.D. 0.302 Depth.	
<b>LINE 18</b>	<b>5400cc (5.4L) DOHC 48V M73</b>				<b>1995-98 V12 BORE - 85mm/3.35"</b>
Valve Seat Insert	Exh	1995-98	<b>21-1500-53</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1995-98	<b>21-1750-60</b>	1.437T I.D. 1-3/4 O.D. 0.302 Depth.	

ENGINE	YEAR	CYL.	LINE NO.
155, 225 12V		L6	1
250 C.I. (4.1L) OHV 16V		V8	2
251 C.I. (4.1L) OHV 12V		L6	3
260 (4.3L) 16V		V8	4
265 C.I. M47 Crown 12V		L6	5
273 C.I. (4.5L)		V8	6
280 C.I. (4.6L) 16V		V8	7
280 C.I. (4.342 Bore), 300 16V		V8	8
318 C.I. (5.2L) (195 H.P.) 16V		V8	9
318 (195H.P.) Special 915		V8	10
318 Mechanical		V8	11
324 C.I. (5.3L)		V8	12
330, 335 16V		V8	13
331 C.I. (5.4L)		V8	14
340, 360		V8	15
M81 Imperial (361 C.I.)		V8	16
375, 400, 440		V8	17
383 C.I.		V8	18

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>155, 225 12V</b>			<b>L6 BORE - 3.40"/86.4mm</b>
Valve	Exh		10-1265	1.360 Head Dia. 4 Groove. +3 & +5 & +15 O/S Stem Avail.
	Int		10-567	1.620 Head Dia. 2 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int		20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both		32-672	2.000 Free Length
Keeper	Exh		34-766	4 Groove. Heat Treated. OEM # 1614666
	Int		34-746	2 Round Grooves. OEM # 381875.
Lifter	Both		36-2084	225. Mechanical
Valve Stem Seal	Exh		38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
<b>LINE 2</b>	<b>250 C.I. (4.1L) OHV 16V</b>			<b>V8 BORE - 4.00"/102.6mm</b>
Valve	Exh		10-1312S	1.517 Head Dia. 2 Groove.
	Int		10-1186	1.811 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1687-3	1-7/16 I.D. 1-11/16 O.D. 1/4 Depth.
	Int		20-2000-6	1-5/8 I.D. 2.000 O.D. 9/32 Depth
Keeper	Both		34-746	2 Round Grooves. OEM # 381875.
<b>LINE 3</b>	<b>251 C.I. (4.1L) OHV 12V</b>			<b>L6 BORE - 3.437"/87.3mm</b>
Valve Seat Insert	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
	Exh		22-1640-1	1-3/8 I.D. 1.640 O.D. 1/4 Depth
Guide	Exh		30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Exh		30-1609	2.813 OAL
	Int		30-1338	2.813 OAL
<b>LINE 4</b>	<b>260 (4.3L) 16V</b>			<b>V8 BORE - 4.25"/107.95mm</b>
Valve	Int		10-548	2.080 Head Dia. To S/N E44742. 2 Groove. +15 O/S Stem May Be Avail.
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>260 (4.3L) 16V</b>			<b>V8 BORE - 4.25"/107.95mm</b>
Guide	Int		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Keeper	Int		34-746	2 Round Grooves. OEM # 381875.
<b>LINE 5</b>	<b>265 C.I. M47 Crown 12V</b>			<b>L6 BORE - 3.437"/87.3mm</b>
Valve	Exh		10-257	1.501 Head Dia.
	Int		10-298	1.718 Head Dia.
Valve Seat Insert	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
	Exh		22-1640-1	1-3/8 I.D. 1.640 O.D. 1/4 Depth
Guide	Exh		30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Exh		30-1609	2.813 OAL. w/ Sodium Cooled Valves.
	Int		30-1338	2.813 OAL
Keeper	Both		34-743	2 Round Grooves. OEM # 395931
<b>LINE 6</b>	<b>273 C.I. (4.5L)</b>			<b>V8 BORE - 3.625"/92mm</b>
Valve	Exh		10-1329	1.500 Head Dia. 4 Groove. +5, 15, 30 O/S May Be Stem Avail.
	Int		10-938	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.
Valve Seat Insert	Exh		20-1625-2	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. +10 O/S Avail.
	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both		32-901-D	1.940 Free Length
Lifter	Both		36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rocker Component	Both		40-2892	Rocker Arm, LH. Stamped
	Both		40-2893	Rocker Arm, RH. Stamped
<b>LINE 7</b>	<b>280 C.I. (4.6L) 16V</b>			<b>V8 BORE - 4.25"/107.95mm</b>
Valve	Int		10-548	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Guide	Both		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Keeper	Int		34-746	2 Round Grooves. OEM # 381875.
<b>LINE 8</b>	<b>280 C.I. (4.342 Bore), 300 16V</b>			<b>V8 BORE - 4.34"/110.3mm</b>
Valve	Int		10-548	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Guide	Both		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Keeper	Int		34-746	2 Round Grooves. OEM # 381875.
<b>LINE 9</b>	<b>318 C.I. (5.2L) (195 H.P.) 16V</b>			<b>V8 BORE - 3.91"/99.3mm</b>
Valve	Exh		10-1312S	1.517 Head Dia. From S/N EI 69354. 2 Groove
	Int		10-1186	1.811 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int		20-2000-10	1-9/16 I.D. 2.000 O.D. 1/4 Depth
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		30-9610	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
Spring	Both		32-1061	1.810 Length
Keeper	Both		34-746	2 Round Grooves. OEM # 381875.
Lifter	Both		36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both		40-2892	Rocker Arm, LH. Stamped. Use w/ Hydr. Lifter
	Both		40-2893	Rocker Arm, RH. Stamped. Use w/ Hydr. Lifter

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 9</b>	<b>318 C.I. (5.2L) (195 H.P.) 16V</b>			<b>V8</b>	<b>BORE - 3.91"/99.3mm</b>
Rocker Component			42-2661	Rocker Shaft. 2 Required w/ Hyd. Lifter	
Push Rod			74-6324	7.500 Length	
Expansion Plug Kit			97-11B	Brass Kit	
<b>LINE 10</b>	<b>318 (195H.P.) Special 915</b>			<b>V8</b>	<b>BORE - 3.91"/99.3mm</b>
Valve	Exh		10-1329	1.500 Head Dia. 4 Groove. +5, 15, 30 O/S May Be Stem Avail.	
	Int		10-938	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.	
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.	
	Int		30-9610	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.	
Keeper	Exh		34-766	4 Groove. Heat Treated. OEM # 1614666	
	Int		34-746	2 Round Grooves. OEM # 381875.	
Lifter	Both		36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron	
Rocker Component	Both		40-2892	Rocker Arm, LH. Stamped	
	Both		40-2893	Rocker Arm, RH. Stamped	
			42-2661	Rocker Shaft. 2 Required w/ Hyd. Lifter	
Push Rod			74-6324	7.500 Length	
<b>LINE 11</b>	<b>318 Mechanical</b>			<b>V8</b>	<b>BORE - 3.91"/99.3mm</b>
Valve	Exh		10-518	1.563 Head Dia. 4 Groove	
	Int		10-514	1.844 Head Dia. 2 Groove	
Valve Seat Insert	Exh		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth	
	Int		20-2000-10	1-9/16 I.D. 2.000 O.D. 1/4 Depth	
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.	
	Int		30-9610	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.	
Keeper	Exh		34-766	4 Groove. Heat Treated. OEM # 1614666	
	Int		34-746	2 Round Grooves. OEM # 381875.	
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.	
<b>LINE 12</b>	<b>324 C.I. (5.3L)</b>			<b>V8</b>	<b>BORE - 3.250"/82.5mm</b>
Valve Seat Insert	Exh		20-1500-6	1-3/16 I.D. 1-1/2 O.D. 1/4 Depth.	
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.	
<b>LINE 13</b>	<b>330, 335 16V</b>			<b>V8</b>	<b>BORE - 4.32"/109.728mm</b>
Valve	Int		10-548	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.	
Guide	Both		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.	
Keeper	Int		34-746	2 Round Grooves. OEM # 381875.	
Rocker Component	Both		40-2892	Rocker Arm, LH. Stamped 335	
	Both		40-2893	Rocker Arm, RH. Stamped 335	
			42-2661	Rocker Shaft. 2 Required w/ Hyd. Lifter	
Push Rod			74-6324	7.500 Length	
<b>LINE 14</b>	<b>331 C.I. (5.4L)</b>			<b>V8</b>	<b>BORE - 3.81"/96.8mm</b>
Valve Seat Insert	Exh		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Late Des. +5, 10, 15, 20, 30 O/S Avail.	
	Exh		20-1687-7	1-3/8 I.D. 1-11/16 O.D. 1/4 Depth. Early Des.	
	Int		20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Early Des.	
	Int		20-2125-10	1-3/4 I.D. 2-1/8 O.D. 9/32 Depth. Late Des.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>340, 360</b>			<b>V8 BORE - 4.05"/102.87mm</b>
Valve	Exh		10-1312S	1.517 Head Dia. From S/N E169354. 2 Groove
	Int		10-1186	1.811 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1687-3	1-7/16 I.D. 1-11/16 O.D. 1/4 Depth.
	Exh		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Int		20-2000-6	1-5/8 I.D. 2.000 O.D. 9/32 Depth
Guide	Both		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both		32-901-D	All. 1.940 Free Length
Keeper	Both		34-746	2 Round Grooves. OEM # 381875.
Lifter	Both		36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both		40-2892	Rocker Arm, LH. Stamped
	Both		40-2893	Rocker Arm, RH. Stamped
			42-2661	Rocker Shaft. 2 Required w/ Hyd. Lifter
Push Rod			74-6324	7.500 Length
Expansion Plug Kit			97-11B	Brass Kit

<b>LINE 16</b>	<b>M81 Imperial (361 C.I.)</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-576	1.500 Head Dia. 2 Groove
	Int		10-577	1.880 Head Dia. 4 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1625-20	1-5/16 I.D. 1-5/8 O.D. 0.395 Depth. Alt. I.D.
	Int		20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Exh		22-1624-1N	1-21/64 I.D. 1.6245 O.D. 3/8 Depth
Guide	Exh		30-1839	3.090 OAL. 0.4385 I.D. 0.6890 O.D.
	Int		30-1840	3.280 OAL. 0.3745 I.D. 0.6890 O.D.
Keeper	Exh		34-746	2 Round Grooves. OEM # 381875.
	Int		34-766	4 Groove. Heat Treated. OEM # 1614666
Lifter	Both		36-2084	Mechanical High Performance
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. 0.341 Stem Dia.
	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.

<b>LINE 17</b>	<b>375, 400, 440</b>			<b>V8 BORE - 4.34"/110.3mm</b>
Valve	Int		10-548	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both		32-891-D	All. 2.230 Free Length
Keeper	Exh		34-766	4 Groove. Heat Treated
	Int		34-746	2 Round Grooves. OEM # 381875.
Valve Stem Seal	Both		38-1050-70	Teflon And Rubber.
	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both		40-2850	Rocker Arm. Stamped. LH
	Both		40-2851	Rocker Arm. Stamped. RH
			42-2701	Rocker Shaft. 2 Required

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 18</b>	<b>383 C.I.</b>			<b>V8 BORE - 4.25"/107.95mm</b>
Valve	Int		<b>10-548</b>	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1750-1</b>	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
	Int		<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Exh		<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Keeper	Int		<b>34-746</b>	2 Round Grooves. OEM # 381875.
Valve Stem Seal	Both		<b>38-1050-70</b>	Teflon And Rubber.
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both		<b>40-2850</b>	Rocker Arm. Stamped. LH
	Both		<b>40-2851</b>	Rocker Arm. Stamped. RH
			<b>42-2701</b>	Rocker Shaft. 2 Required

ENGINE	YEAR	CYL.	LINE NO.
1368cc (1.4L) SOHC 16V Vin H MultiAir [Fiat]	2011-16	L4	1
1410cc (1.4L) SOHC 8V G12B (Mitsubishi)	1979-84	L4	2
1468cc (1.5L) SOHC 8V G15B (Mitsubishi) Vin K	1985-88	L4	3
1468cc (1.5L) SOHC 8V 4G15 (Mitsubishi)	1987-90	L4	4
1468cc (1.5L) SOHC 12V 4G15 (Mitsubishi)	1991-96	L4	5
1595cc (1.6L) DOHC 16V 4G61,T (Mitsubishi)	1989-90	L4	6
1597cc (1.6L) SOHC 8V 4G32 (Mitsubishi)	1971-78	L4	7
1597cc (1.6L) SOHC 8V G32B/Z (Mitsubishi)	1977-80	L4	8
1597cc (1.6L) SOHC G32B/K (Mitsubishi)	1979-88	L4	9
1597cc (1.6L) SOHC Turbo G32B (Mitsubishi)	1984-88	L4	10
1715cc (1.7L) SOHC (VW) 8V Vin A, B	1978-83	L4	11
1755cc (1.8L) SOHC 8V 4G37 (Mitsubishi)	1989-94	L4	12
1798cc (1.8L) DOHC 16V VVT Vin C	2007-09	L4	13
1834cc (1.8L) SOHC 16V 4G93 (Mitsubishi)	1992-96	L4	14
121 C.I. (2.0L) SOHC 8V Vin G,K	1977-79	L4	15
1995cc (2.0L) SOHC 12V G52 (Mitsubishi)	1974-82	L4	16
1995cc (2.0L) DOHC 16V	2016-16	L4	17
1996cc (2.0L) SOHC 16V Neon Vin C,ECB,F,N,9	1995-05	L4	18
1996cc (2.0L) DOHC 16V Neon Vin B,Y	1995-99	L4	19
1997cc (2.0L) SOHC Carb, F.I. G63B (Mitsubishi)	1983-91	L4	20
1997cc (2.0L) DOHC 16V 4G63 & Turbo (Mitsubishi)	1990-98	L4	21
1998cc (2.0L) DOHC 16V VVT Vin O,A,B ECN	2007-16	L4	22
2068cc (2.1L) SOHC Turbo Diesel	1984-87	L4	23
134 C.I. (2.2L) "L" Head AMC	1939-65	L4	24
134 C.I. (2.2L) "F" Head AMC	1950-73	L4	25
2213cc (2.2L) SOHC 8V Vin A,B,C,D,E,F,P,R	1981-94	L4	26
2213cc (2.2L) DOHC 16V Turbo (Maserati)	1990-93	L4	27
2346cc (2.3L) Turbo Diesel 4D55T (Mitsubishi)	1983-86	L4	28
2351cc (2.4L) SOHC 8V G64B (Mitsubishi)	1990-93	L4	29
2351cc (2.4L) SOHC 16V 4G64 (Mitsubishi) Vin G	1993-96	L4	30
2351cc (2.4L) SOHC 16V 4G64 (Mitsubishi) Vin G	2001-05	L4	31
2359cc (2.4L) DOHC 16V VVT Vin B,F,J,K,W	2007-16	L4	32
2429cc (2.4L) DOHC 16V Vin B,E,G,J,S,X,1,8,9	1995-10	L4	33
150 C.I. (2.5L) AMC Vin E,H,P,U OHV 8V	1983-02	L4	34
151 C.I. (2.5L) GM 8V Vin B OHV	1980-84	L4	35
2497cc (2.5L) SOHC 24V 6G73 (Mits.) Vin H, N	1995-00	V6	36
153 C.I. (2.5L) SOHC 8V Vin G, K, V	1986-95	L4	37
153 C.I. (2.5L) SOHC Turbo Vin J 8V	1989-92	L4	38
2555cc (2.6L) SOHC 8V G54B Incl. Turbo (Mits.)	1978-89	L4	39
2687cc (2.7L) DOHC 20V Vin 4,2,C (Mercedes) Diesel	2002-07	L5	40
165 C.I. (2.7L) DOHC 24V Vin R, T, U	1998-10	V6	41
170 C.I. (2.8L) 12V Vin 6, A	1960-69	L6	42
173 C.I. (2.8L) GM OHV 12V Vin W	1984-87	V6	43
2972cc (3.0L) SOHC 12V 6G72 Vin H, S, 3 (Mits.)	1987-00	V6	44
2972cc (3.0L) DOHC 24V 6G72/T Vin B, J (Mits.)	1991-96	V6	45
2972cc (3.0L) SOHC 24V 6G72 Vin H (Mits.)	2001-05	V6	46
2987cc (3.0L) DOHC 24V Diesel (Mercedes)	2007-09	V6	47
2988cc (3.0L) DOHC 24V Turbo VR630	2014-16	V6	48
196 C.I. (3.2L) AMC	1957-65	L6	49
197 C.I. (3.2L) SOHC 24V Vin J	1998-01	V6	50
3239cc (3.2L) DOHC 24V EHB	2014-16	V6	51
198 C.I. (3.2L) 12V Vin A, B	1970-74	L6	52
199 C.I. (3.3L) AMC Vin A	1965-70	L6	53
201 C.I. (3.3L) OHV 12V Vin 3,E,G,H,R,S,T,U	1990-10	V6	54

**CHRYSLER****PASSENGER CAR & TRUCK**

215 C.I. (3.5L) SOHC 24V Vin F, G, K, M, V, 4	1993-10	V6	55
218 C.I. (3.6L) Chrysler	1941-57	L6	56
3604cc (3.6L) DOHC 24V Vin G	2011-16	V6	57
225 C.I. (3.7L) OHV Vin 6, B-F, H, J, M, N, W, X	1960-87	L6	58
225 C.I. (3.7L) GM Vin H, P	1965-71	V6	59
230 C.I. (3.7L) 12V AMC	1962-68	L6	60
226 C.I. (3.7L) SOHC 12V Vin K	2002-12	V6	61
226 C.I. (3.7L) AMC	1954-65	L6	62
230 C.I. (3.8L) Chrysler	1941-60	L6	63
232 C.I. (3.8L) OHV Vin B,C,E,G AMC	1964-79	L6	64
232 C.I. (3.8L) OHV 12V Vin 1,L,P	1991-11	V6	65
236-237 C.I. (3.9L) 12V	1942-52	L6	66
239 C.I. (3.9L) OHV Carb. 12V Vin M	1987-88	V6	67
238 C.I. (3.9L) OHV F.I. 12V Vin M, X	1988-03	V6	68
3952cc (4.0L) SOHC 24V Vin 6,X	2007-12	V6	69
242 C.I. (4.0L) OHV AMC 12V Vin L,M,S,V	1987-06	L6	70
250 C.I. (4.1L) AMC	1956-62	V8	71
237 (3.9L), 251 (4.1L) Vin 6 Chrysler	1942-68	L6	72
258 C.I. (4.2L) OHV AMC Vin A,C,M,T	1971-90	L6	73
265 C.I. (4.3L) 12V Chrysler	1951-60	L6	74
270 C.I. (4.4L)	1955-56	V8	75
273 C.I. (4.5L)	1964-69	V8	76
277 C.I. (4.5L) OHV	1956-57	V8	77
287 C.I. (4.7L) SOHC 16V Vin J, N,P	1999-13	V8	78
287 C.I. (4.7L) AMC	1963-66	V8	79
290 C.I. (4.8L) AMC Vin H,M,N	1966-69	V8	80
303 C.I. (5.0L)	1956-56	V8	81
304 C.I. (5.0L) OHV Vin H AMC	1970-81	V8	82
318 C.I. (5.2L) OHV Passenger Car	1957-89	V8	83
318 C.I. (5.2L) Truck Carb. & F.I., Motor Home	1959-03	V8	84
326 C.I. (5.3L)	1959-59	V8	85
327 C.I. (5.4L) AMC	1957-70	V8	86
331, 354, 392 C.I.	1951-59	V8	87
340 C.I. (5.6L) 16V Vin H,J,P	1968-73	V8	88
343 C.I. (5.6L) Vin S,T AMC	1967-69	V8	89
345 C.I. (5.7L) 16V Hemi Vin 2,8,D,H,T	2003-16	V8	90
350 C.I. (5.7L) GM	1968-71	V8	91
359 C.I. (5.9L) Turbo Diesel Cummins 12V Vin C,D,8	1989-98	L6	92
359 C.I. (5.9L) ISB Turbo Diesel 24V Vin 6, 7, C	1998-09	L6	93
360 C.I. (5.9L) OHV Vin 7,N,P AMC	1970-91	V8	94
360 C.I. (5.9L) Truck Carb, F.I., Motor Home	1971-03	V8	95
360 C.I. (5.9L) Passenger Car	1971-80	V8	96
361 C.I. (5.9L) Passenger Car	1958-66	V8	97
361 C.I. (5.9L) Truck	1960-77	V8	98
6059cc (6.1L) OHV 16V Vin 3,W (Hemi SRT8)	2005-10	V8	99
6.2L OHV 16V Vin 9 S/C	2015-16	V8	100
383 C.I. (6.3L) Vin 8, G, H, J, L, N	1959-71	V8	101
390 C.I. (6.4L) Vin X AMC	1968-70	V8	102
6424cc (6.4L) OHV 16V Vin J	2011-16	V8	103
400 C.I. (6.6L) OHV Vin J, M, N, P	1972-78	V8	104
401 C.I. (6.6L) OHV Vin Z AMC	1971-78	V8	105
6690 (6.7L) OHV Turbo Diesel (Cummins) 24V ISB	2007-15	L6	106
413 C.I. (6.8L) 16V	1959-79	V8	107
426 C.I. Hemi And Wedge Vin J, R	1963-71	V8	108
440 C.I. (7.2L) OHV Vin A,D,K,L,M,T,U,V	1966-80	V8	109
478 C.I. (7.8L) 16V	1969-77	V8	110

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488 C.I. (8.0L) OHV 20V Car Vin E	1992-02	V10	111
488 C.I. (8.0L) OHV 20V Truck Vin W	1994-03	V10	112
8277cc (8.3L) OHV 20V Car, Truck Vin H	2003-07	V10	113
8437cc (8.4L) OHV 20V	2008-16	V10	114

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1368cc (1.4L) SOHC 16V Vin H MultiAir [Fiat]</b>			<b>2011-16 L4</b>	<b>BORE - 72mm / 2.84"</b>
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Valve	Exh	2011-15	10-30109	OEM # 04892677AB
	Int	2011-15	10-30108	OEM # 04892676AB
Guide	Both	2011-15	30-3291	
Keeper	Both	2011-15	34-5021	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	2011-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.

<b>LINE 2</b>	<b>1410cc (1.4L) SOHC 8V G12B (Mitsubishi)</b>			<b>1979-84 L4</b>	<b>BORE - 2.913"/74mm</b>
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Valve	Exh	1979-84	10-10097	1.181 Head Dia. 0.258 Stem. Round Groove
	Int	1979-84	10-10098	1.340 Head Dia. Round Groove
Valve Seat Insert	Exh	1979-84	21-1312-53	0.980T I.D. 1-5/16 O.D. 0.293 Depth
	Int	1979-84	21-1437-57	1.100T I.D. 1-7/16 O.D. 0.293 Depth
Guide	Exh	1979-84	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1979-84	30-7578	1.730 OAL. +2, +6 O/S Avail.
Spring	Both	1979-84	32-1197	1.799 Free Length
Keeper	Both	1979-84	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1979-84	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1979-84	97-0214	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 3</b>	<b>1468cc (1.5L) SOHC 8V G15B (Mitsubishi) Vin K</b>			<b>1985-88 L4</b>	<b>BORE - 2.972"/75.5mm</b>
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Valve	Exh	1985-88	10-10097	1.181 Head Dia. 0.258 Stem. Round Groove
	Int	1985-88	10-10098	1.340 Head Dia. Round Groove
Valve Seat Insert	Exh	1985-88	21-1312-53	0.980T I.D. 1-5/16 O.D. 0.293 Depth
	Int	1985-88	21-1437-57	1.100T I.D. 1-7/16 O.D. 0.293 Depth
Guide	Exh	1985-88	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1985-88	30-7578	1.730 OAL. 0.476 O.D. +2, +6 O/S Avail.
Spring	Both	1985-88	32-1197	1.799 Free Length
Keeper	Both	1985-88	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1985-88	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1985-88	97-0214	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 4</b>	<b>1468cc (1.5L) SOHC 8V 4G15 (Mitsubishi)</b>			<b>1987-90 L4</b>	<b>BORE - 2.972"/75.5mm</b>
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Valve	Exh	1987-90	10-10097	1.181 Head Dia. Round Groove
	Int	1987-90	10-10136	1.380 Head Dia. Round Groove
Valve Seat Insert	Exh	1987-90	21-1312-53	0.980T I.D. 1-5/16 O.D. 0.293 Depth
	Int	1987-90	21-1437-63	1.181T I.D. 1-7/16 O.D. 0.280 Depth
Guide	Exh	1987-90	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1987-90	30-7578	1.730 OAL. +2, +6 O/S Avail.
Spring	Both	1987-90	32-1197	1.799 Free Length
Keeper	Both	1987-90	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1987-90	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1987-90	97-0214	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 5</b>	<b>1468cc (1.5L) SOHC 12V 4G15 (Mitsubishi)</b>			<b>1991-96 L4</b>	<b>BORE - 2.972"/75.5mm</b>
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Valve	Exh	1991-96	10-10497	1.299 Head Dia.
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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>1468cc (1.5L) SOHC 12V 4G15 (Mitsubishi)</b>		<b>1991-96 L4</b>	<b>BORE - 2.972"/75.5mm</b>
Valve	Int	1991-96	10-10495	1.023 Head Dia.
	Int	1991-96	10-10496	1.220 Head Dia.
Valve Seat Insert	Exh	1991-96	21-1437-61	1.162 I.D. 1-7/16 O.D. 0.310 Depth
	Int	1991-96	21-1125-52	0.825T I.D. 1-1/8 O.D. 0.285 Depth, w/ 26mm Valve Head Dia.
	Int	1991-96	21-1312-62	1.065T I.D. 1-5/16 O.D. 0.285 Depth. w/ 31mm Valve Head Dia.,
Guide	Exh	1991-95	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1991-95	30-7578	1.730 OAL. +2, +6 O/S Avail.
Keeper	Both	1991-96	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1991-96	38-996-55	Viton. Metal Clad.
<b>LINE 6</b>	<b>1595cc (1.6L) DOHC 16V 4G61,T (Mitsubishi)</b>		<b>1989-90 L4</b>	<b>BORE - 3.24"/82.3mm</b>
Valve	Exh	1989-90	10-10128	1.201 Head Dia.
	Int	1989-90	10-10126	1.339 Head Dia.
Valve Seat Insert	Exh	1989-90	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1989-90	21-1437-68	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Exh	1989-90	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1989-90	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1989-90	34-235	1 Round Groove. Heat Treated
Lifter	Both	1989-90	36-2274	Hydraulic. Colt Turbo
Valve Stem Seal	Both	1989-90	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1989-90	97-31	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 7</b>	<b>1597cc (1.6L) SOHC 8V 4G32 (Mitsubishi)</b>		<b>1971-78 L4</b>	<b>BORE - 3.03"/76.9mm</b>
Valve	Exh	1971-78	10-10083	1.220 Head Dia. Square Groove
	Int	1971-78	10-10076	1.488 Head Dia. Square Groove
Valve Seat Insert	Exh	1971-78	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int	1971-78	21-1562-50	1.260T I.D. 1-9/16 O.D. 0.280 Depth
Guide	Exh	1971-78	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1971-78	30-7576	1.735 OAL. +2 O/S Avail.
Spring	Both	1977-78	32-1123	1.822 Free Length.
Keeper	Both	1971-78	34-813	1 Square Groove. Heat Treated
Lifter	Both	1971-78	36-6000	Hydraulic
Valve Stem Seal	Both	1971-78	38-938-45	Viton. Ring And Band.
	Both	1971-78	38-964-55	Viton. Metal Clad.
Expansion Plug Kit		1971-78	97-31	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 8</b>	<b>1597cc (1.6L) SOHC 8V G32B/Z (Mitsubishi)</b>		<b>1977-80 L4</b>	<b>BORE - 3.00"/76.9mm</b>
Valve	Exh	1977-80	10-10083	1.220 Head Dia. Square Groove
	Int	1977-80	10-10076	1.488 Head Dia. Square Groove
Valve Seat Insert	Exh	1977-80	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int	1977-80	21-1562-50	1.260T I.D. 1-9/16 O.D. 0.280 Depth
Guide	Exh	1977-80	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1977-80	30-7576	1.735 OAL. +2 O/S Avail.
Spring	Both	1977-80	32-1123	1.822 Free Length.
Keeper	Both	1977-80	34-813	1 Square Groove. Heat Treated
Lifter	Both	1977-80	36-6000	Hydraulic
Valve Stem Seal	Both	1977-80	38-938-45	Viton. Ring And Band.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>1597cc (1.6L) SOHC 8V G32B/Z (Mitsubishi)</b>			<b>1977-80 L4 BORE - 3.00"/76.9mm</b>
Valve Stem Seal	Both	1977-80	38-964-55	Viton. Metal Clad.
Expansion Plug Kit		1977-80	97-31	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 9</b>	<b>1597cc (1.6L) SOHC G32B/K (Mitsubishi)</b>			<b>1979-88 L4 BORE - 3.03"/76.9mm</b>
Valve	Exh	1979-83	10-10083	1.220 Head Dia. Square Groove
	Int	1979-83	10-10076	1.488 Head Dia. Square Groove
Valve Seat Insert	Exh	1979-88	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int	1979-88	21-1562-50	1.260T I.D. 1-9/16 O.D. 0.280 Depth
Guide	Exh	1979-88	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1979-88	30-7576	1.735 OAL. +2 O/S Avail.
Spring	Both	1979-88	32-1123	1.822 Free Length.
Keeper	Both	1984-88	34-716	1 Round Groove. Heat Treated
	Both	1979-83	34-813	1 Square Groove. Heat Treated
Lifter	Both	1979-88	36-6000	Hydraulic
Valve Stem Seal	Both	1979-88	38-938-45	Viton. Ring And Band.
	Both	1979-88	38-964-55	Viton. Metal Clad.
Expansion Plug Kit		1979-83	97-31	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 10</b>	<b>1597cc (1.6L) SOHC Turbo G32B (Mitsubishi)</b>			<b>1984-88 L4 BORE - 3.02"/76.9mm</b>
Valve Seat Insert	Exh	1984-88	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int	1984-88	21-1562-50	1.260T I.D. 1-9/16 O.D. 0.280 Depth
Guide	Exh	1984-88	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1984-88	30-7576	1.735 OAL. +2 O/S Avail.
Spring	Both	1984-88	32-1123	1.800 Free Length.
Keeper	Both	1984-88	34-716	1 Round Groove. Heat Treated
Lifter	Both	1984-88	36-6000	Colt. Hydraulic
Valve Stem Seal	Both	1984-88	38-938-45	Viton. Ring And Band.
	Both	1984-88	38-964-55	Viton. Metal Clad.
Expansion Plug Kit		1984-88	97-31	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 11</b>	<b>1715cc (1.7L) SOHC (VW) 8V Vin A, B</b>			<b>1978-83 L4 BORE - 3.13"/79.5mm</b>
Valve	Exh	1978-83	10-10006	1.226 Head Dia. 1 Groove
	Exh	1978-83	10-10364S	1.232 Head Dia. 3 Groove
	Int	1978-83	10-10007	1.337 Head Dia. 1 Groove
	Int	1978-83	10-10363	1.338 Head Dia. 3 Groove
Valve Seat Insert	Exh	1978-83	21-1312-50	1.086T I.D. 1-5/16 O.D. 0.305 Depth
	Exh	1978-83	21-1312-56	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.
	Int	1978-83	21-1437-50	1.140T I.D. 1-7/16 O.D. 0.305 Depth
Guide	Both	1978-83	30-7359	1.435 OAL. 0.4765 O.D.
	Exh	1982-83	30-7852	1.670 OAL. 0.3145 I.D. +2 O/S Avail.
Spring	Both	1978-83	32-1106	1.610 Free Length. Outer
	Both	1978-83	32-1107	1.323 Free Length. Inner
Keeper	Both	1978-83	34-619	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1978-83	38-3995-55	Viton. Metal Clad.
Expansion Plug Kit		1978-83	97-91	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 12</b>	<b>1755cc (1.8L) SOHC 8V 4G37 (Mitsubishi)</b>			<b>1989-94 L4 BORE - 3.173"/80.6mm</b>
Valve	Exh	1989-94	10-10140	1.339 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>1755cc (1.8L) SOHC 8V 4G37 (Mitsubishi)</b>			<b>1989-94 L4 BORE - 3.173"/80.6mm</b>
Valve	Int	1989-94	10-10139	1.654 Head Dia.
Valve Seat Insert	Exh	1989-94	21-1500-75	1.180 I.D. 1-1/2 O.D. 0.300 Depth.
	Int	1989-94	21-1750-59	1.360T I.D. 1-3/4 O.D. 0.315 Depth
Guide	Exh	1989-94	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1989-94	30-7576	1.735 OAL. +2 O/S Avail.
Keeper	Both	1989-94	34-716	1 Round Groove. Heat Treated
Lifter	Both	1989-94	36-6000	Laser. Hydraulic
Valve Stem Seal	Both	1989-94	38-938-45	Viton. Ring And Band.
	Both	1989-94	38-964-55	Viton. Metal Clad.
<b>LINE 13</b>	<b>1798cc (1.8L) DOHC 16V VVT Vin C</b>			<b>2007-09 L4 BORE - 86mm/3.39"</b>
Valve	Exh	2007-09	10-13191	1.148 Head Dia. 0.215 Stem
	Int	2007-09	10-13190	1.378 Head Dia. 0.215 Stem
Guide	Both	2007-09	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Spring	Both	2007-09	32-5003	1.941 Free Length
Keeper	Both	2007-09	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2007-09	38-6101-55	Viton. Top Hat
<b>LINE 14</b>	<b>1834cc (1.8L) SOHC 16V 4G93 (Mitsubishi)</b>			<b>1992-96 L4 BORE - 3.188"/81mm</b>
Valve	Exh	1992-96	10-10499	1.063 Head Dia. 0.235 Stem
	Int	1992-96	10-10498	1.181 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1992-92	21-1187-51	0.905 I.D. 1-3/16 O.D. 0.257 Depth
	Exh	1993-96	21-1187-54	0.880 I.D. 1-3/16 O.D. 0.280 Depth
	Int	1992-92	21-1250-55	1.005T I.D. 1-1/4 O.D. 0.255 Depth
Guide	Int	1993-96	21-1250-60	1.023T I.D. 1-1/4 O.D. 0.273 Depth
	Exh	1992-96	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Exh	1994-96	30-8579	1.970 OAL
Keeper	Int	1994-96	30-8578	1.775 OAL
	Both	1992-96	34-719	1 Round Groove. Heat Treated
Lifter	Both	1992-96	36-6000	Hydraulic
Valve Stem Seal	Both	1992-96	38-553-55	Viton. Metal Clad
<b>LINE 15</b>	<b>121 C.I. (2.0L) SOHC 8V Vin G,K</b>			<b>1977-79 L4 BORE - 3.40"/86.4mm</b>
Valve Seat Insert	Exh	1977-79	21-1437-59	1.180T I.D. 1-7/16 O.D. 0.305 Depth.
	Int	1977-79	21-1687-52	1.300T I.D. 1-11/16 O.D. 0.360 Depth
Expansion Plug Kit		1977-79	97-28	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 16</b>	<b>1995cc (2.0L) SOHC 12V G52 (Mitsubishi)</b>			<b>1974-82 L4 BORE - 3.307"/84mm</b>
Valve	Exh	1974-82	10-10064	1.376 Head Dia. Square Groove
	Int	1974-82	10-10065	1.689 Head Dia. Square Groove
Valve Seat Insert	Exh	1974-82	21-1500-62	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Int	1974-82	21-1750-61	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh	1974-82	30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1974-82	30-8226	2.046 OAL. 0.5625 O.D.
	Int	1974-82	30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
Keeper	Int	1974-82	30-8225	1.848 OAL. 0.5625 O.D.
	Both	1974-82	32-1125	1.875 Free Length
Spring	Both	1974-82	34-813	1 Square Groove. Heat Treated

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 16</b>	<b>1995cc (2.0L) SOHC 12V G52 (Mitsubishi)</b>		<b>1974-82 L4</b>	<b>BORE - 3.307"/84mm</b>
Valve Stem Seal	Both	1974-82	<b>38-938-45</b>	Viton. Ring And Band.
	Both	1974-82	<b>38-964-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1974-82	<b>97-0216</b>	w/ 28mm Block Plug. Steel Kit. Brass Kit Avail. In Suffix B
		1974-82	<b>97-32</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>1995cc (2.0L) DOHC 16V</b>		<b>2016-16 L4</b>	<b>BORE - 88mm/3.46"</b>
No Parts Available			<b>00</b>	
<b>LINE 18</b>	<b>1996cc (2.0L) SOHC 16V Neon Vin C,ECB,F,N,9</b>		<b>1995-05 L4</b>	<b>BORE - 3.44"/87.5mm</b>
Valve	Exh	1995-04	<b>10-1742</b>	1.130 Head Dia. Single Groove
	Exh	2001-05	<b>10-1992</b>	1.130 Head Dia. Three Groove
	Int	1995-04	<b>10-1741</b>	1.309 Head Dia. Single Groove
	Int	2001-05	<b>10-1991</b>	1.309 Head Dia. Three Groove
Valve Seat Insert	Exh	1995-05	<b>21-1250-62</b>	1.000 I.D. 1-1/4 O.D. 0.305 Depth
	Int	1995-05	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
Guide	Both	1995-05	<b>30-8555</b>	1.835 OAL
Spring	Both	1995-05	<b>32-04019</b>	1.860 Length,Except R/T
Keeper	Both	2001-05	<b>34-07050</b>	3 Groove. OEM #s 4777050AB/AC
	Both	1995-01	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1995-05	<b>36-7078</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1995-05	<b>38-20-45</b>	Viton. Top Hat.
<b>LINE 19</b>	<b>1996cc (2.0L) DOHC 16V Neon Vin B,Y</b>		<b>1995-99 L4</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1995-99	<b>10-1731</b>	1.201 Head Dia.
	Int	1995-99	<b>10-1730</b>	1.370 Head Dia.
Guide	Both	1995-99	<b>30-8556</b>	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	1995-99	<b>32-04033</b>	1.840 Free Lenth.. Revised Spring, Do Not Mix.
Keeper	Both	1995-99	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1995-99	<b>36-2278</b>	Hydraulic
Valve Stem Seal	Both	1995-99	<b>38-20-45</b>	Viton. Top Hat.
Rocker Component	Both	1995-99	<b>40-2702</b>	Cam Follower
<b>LINE 20</b>	<b>1997cc (2.0L) SOHC Carb, F.I. G63B (Mitsubishi)</b>		<b>1983-91 L4</b>	<b>BORE - 3.346"/85mm</b>
Valve	Exh	1983-91	<b>10-10142</b>	1.378 Head Dia.
	Int	1983-91	<b>10-10141</b>	1.693 Head Dia.
Valve Seat Insert	Exh	1983-91	<b>21-1500-62</b>	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Int	1983-91	<b>21-1750-61</b>	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh	1983-91	<b>30-7575</b>	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1983-91	<b>30-8226</b>	2.046 OAL. 0.5625 O.D.
	Int	1983-91	<b>30-7574</b>	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
	Int	1983-91	<b>30-8225</b>	1.848 OAL. 0.5625 O.D.
Spring	Both	1983-84	<b>32-1125</b>	1.875 Free Length
	Both	1984-91	<b>32-1289</b>	1.960 Free Length
Keeper	Both	1983-91	<b>34-716</b>	1 Round Groove. Heat Treated
Lifter	Both	1983-91	<b>36-6000</b>	84-89: Colt Vista. 84-86: Pickup. Hydraulic
Valve Stem Seal	Both	1983-89	<b>38-938-45</b>	Viton. Ring And Band.
	Both	1983-91	<b>38-964-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1983-89	<b>97-0226</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 21</b>	<b>1997cc (2.0L) DOHC 16V 4G63 &amp; Turbo (Mitsubishi)</b>			<b>1990-98 L4 BORE - 3.346"/85mm</b>
Valve	Exh	1990-98	10-10128	1.201 Head Dia. Round Groove
	Int	1990-98	10-10126	1.339 Head Dia. Round Groove
Valve Seat Insert	Exh	1990-98	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1990-4/92	21-1437-68	1.135T I.D. 1-7/16 O.D. 0.316 Depth. Through 4/92.
	Int	5/92-98	21-1437-73	1.142T I.D. 1-7/16 O.D. 0.336 Depth.
Guide	Exh	1990-98	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1990-98	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1990-98	34-235	1 Round Groove. Heat Treated
Lifter	Both	1990-98	36-2274	Hydraulic
Valve Stem Seal	Both	1989-98	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1990-98	97-0226	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 22</b>	<b>1998cc (2.0L) DOHC 16V VVT Vin 0,A,B ECN</b>			<b>2007-16 L4 BORE - 86mm/3.39"</b>
Valve	Exh	2007-15	10-13191	1.148 Head Dia. 0.215 Stem
	Int	2007-15	10-13190	1.378 Head Dia. 0.215 Stem
Guide	Both	2007-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Spring	Both	2007-15	32-5003	1.941 Free Length
Keeper	Both	2007-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Lifter	Both	2013-15	36-7561	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2007-15	38-6101-55	Viton. Top Hat.
<b>LINE 23</b>	<b>2068cc (2.1L) SOHC Turbo Diesel</b>			<b>1984-87 L4 BORE - 3.39"/86mm</b>
Valve Seat Insert	Exh	1984-87	21-1687-55	1.340 I.D. 1-11/16 O.D. 0.315 Depth
	Int	1984-87	21-1437-66	1.120 I.D. 1-7/16 O.D. 0.300 Depth
<b>LINE 24</b>	<b>134 C.I. (2.2L) "L" Head AMC</b>			<b>1939-65 L4 BORE - 3.125"/79.4mm</b>
Valve	Exh	1939-65	10-121	1.468 Head Dia. Long Groove
	Int	1939-65	10-122	1.531 Head Dia. Long Groove
Valve Seat Insert	Exh	1939-65	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1939-65	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Exh	1939-65	30-1342	3.063 OAL
	Int	1939-65	30-1504	2.750 OAL
Spring	Both	1939-65	32-433	2.500 Free Length
Keeper	Both	1939-65	34-860	Long Groove
<b>LINE 25</b>	<b>134 C.I. (2.2L) "F" Head AMC</b>			<b>1950-73 L4 BORE - 3.125"/79.4mm</b>
Valve	Exh	1950-73	10-303	1.468 Head Dia. w/o Rotator 1 Groove
	Int	1950-73	10-302	2.000 Head Dia. Long Groove
Valve Seat Insert	Exh	1950-73	20-1562-4	1-5/16 I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1950-73	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Exh	1950-73	30-1342	3.063 OAL
	Int	1950-73	30-1704	2.375 OAL
Spring	Exh	1952-73	32-433	2.500 Free Length
	Int	1952-73	32-529	1.970 Free Length
Keeper	Exh	1950-73	34-555	1 Square Groove. Heat Treated
	Int	1950-73	34-860	Long Groove

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 26</b>	<b>2213cc (2.2L) SOHC 8V Vin A,B,C,D,E,F,P,R</b>			<b>1981-94 L4</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1981-85	10-1448	1.394 Head Dia. 4 Groove. 4.442 OAL. +15 O/S Stem Avail.	
	Exh	1986-94	10-1552	1.394 Head Dia. 4 Groove. 4.522 OAL. +15 O/S Stem Avail.	
	Exh	1986-90	10-1554	1.394 Head Dia. 4 Groove. 4.523 OAL. Turbo	
	Int	1981-85	10-1449	1.598 Head Dia. 1 Groove. 4.419 OAL. +15 O/S Stem Avail.	
	Int	1986-94	10-1553	1.599 Head Dia. 1 Groove. 4.499 OAL. +15 O/S Stem Avail.	
	Int	1986-90	10-1555	1.598 Head Dia. 1 Groove. 4.499 OAL. Turbo	
Valve Seat Insert	Exh	1981-94	21-1500-63	1.210T I.D. 1-1/2 O.D. 0.345 Depth.	
	Int	1981-94	21-1687-51	1.390T I.D. 1-11/16 O.D. 0.305 Depth.	
Guide	Exh	1981-94	30-7451N	1.693 OAL. 0.4937 O.D. +2 Incl. Lock Ring	
	Exh	1981-94	30-7662	1.693 OAL. w/ 0.502 O.D. +2 O/S Avail. Incl. Lock Ring	
	Exh	1981-87	30-8419	1.693 OAL. 0.3125 I.D. 0.4934 O.D. w/ Snap Ring	
	Int	1981-94	30-7429N	1.575 OAL. w/ 0.4937 O.D. +2 O/S Avail.	
	Int	1981-94	30-7661	1.575 OAL. w/ 0.502 O.D. +2 O/S Avail. Incl. Lock Ring	
	Int	1981-87	30-8418	1.575 OAL. 0.3125 I.D. 0.4937 O.D.	
Spring	Both	1981-82	32-1196	2.325 Free Length	
	Both	1984-94	32-1246	2.160 Free Length	
Keeper	Exh	1981-94	34-237	4 Groove	
	Int	1981-94	34-614	Heat Treated. 1 Groove.	
Lifter	Both	1981-94	36-2105	Hydraulic	
Valve Stem Seal	Both	1981-94	38-535-45	Viton. Ring And Band. 5/16 Stem.	
	Both	1981-94	38-6116-45	Viton. All Rubber	
Rocker Component	Both	1981-87	40-2809	Cam Follower, Stamped	
Expansion Plug Kit		1981-94	97-88	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 27</b>	<b>2213cc (2.2L) DOHC 16V Turbo (Maserati)</b>			<b>1990-93 L4</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1991-93	10-1803	1.152 Head Dia.	
	Int	1991-93	10-1802	1.332 Head Dia.	
Guide	Both	1991-93	30-8557	2.300 OAL	
Valve Stem Seal	Both	1991-93	38-535-25	Polyacrylic. Ring And Band.	
	Both	1991-93	38-535-45	Viton. Ring And Band. For 5/16 Stem.	
Expansion Plug Kit		1991-93	97-88	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 28</b>	<b>2346cc (2.3L) Turbo Diesel 4D55T (Mitsubishi)</b>			<b>1983-86 L4</b>	<b>BORE - 3.81"/96.8mm</b>
Valve	Exh	5/84-86	10-10416	1.339 Head Dia. Round Groove	
	Int	5/84-86	10-10415	1.575 Head Dia. Round Groove	
Valve Seat Insert	Int	1983-86	21-1750-66	1.460T I.D. 1-3/4 O.D. 0.275 Depth	
Guide	Exh	5/84-86	30-7851	2.920 OAL	
	Int	5/84-86	30-7850	2.800 OAL	
Keeper	Both	5/84-86	34-716	1 Round Groove. Heat Treated	
Valve Stem Seal		1983-86	38-938-45	Viton. Ring And Band.	
		1983-86	38-964-55	Viton. Metal Clad.	
<b>LINE 29</b>	<b>2351cc (2.4L) SOHC 8V G64B (Mitsubishi)</b>			<b>1990-93 L4</b>	<b>BORE - 3.40"/86.4mm</b>
Valve	Exh	1990-93	10-10144	1.496 Head Dia. 0.3126 Stem	
	Int	1990-93	10-10143	1.811 Head Dia. 0.3137 Stem	
Valve Seat Insert	Exh	1990-93	21-1625-56	1.298T I.D. 1-5/8 O.D. 0.317 Depth	
	Int	1990-93	21-1875-51	1.575T I.D. 1-7/8 O.D. 0.317 Depth.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 29</b>	<b>2351cc (2.4L) SOHC 8V G64B (Mitsubishi)</b>		<b>1990-93 L4</b>	<b>BORE - 3.40"/86.4mm</b>
Guide	Exh	1990-93	<b>30-7575</b>	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1990-93	<b>30-8226</b>	2.046 OAL. 0.5625 O.D.
	Int	1990-93	<b>30-7574</b>	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
	Int	1990-93	<b>30-8225</b>	1.848 OAL. 0.5625 O.D.
	Spring	Both	1990-93	<b>32-1289</b>
Keeper	Both	1990-93	<b>34-716</b>	1 Round Groove. Heat Treated
Lifter	Both	1990-93	<b>36-6000</b>	90-93: Ram 50. 90-92: Colt Vista. Hydraulic
Valve Stem Seal	Both	1990-93	<b>38-964-55</b>	Viton. Metal Clad.
<b>LINE 30</b>	<b>2351cc (2.4L) SOHC 16V 4G64 (Mitsubishi) Vin G</b>		<b>1993-96 L4</b>	<b>BORE - 3.40"/86.4mm</b>
Valve	Exh	1993-96	<b>10-10535</b>	1.142 Head Dia. 0.234 Stem
	Int	1993-96	<b>10-10534</b>	1.299 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1993-96	<b>21-1250-59</b>	0.982 I.D. 1-1/4 O.D. 0.329 Depth.
	Int	1993-96	<b>21-1375-62</b>	1.100T I.D. 1-3/8 O.D. 0.300 Depth.
Guide	Exh	1993-96	<b>30-8571</b>	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	1993-96	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1993-96	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1993-96	<b>36-6000</b>	Hydraulic
Valve Stem Seal	Both	1993-96	<b>38-553-55</b>	Viton. Metal Clad
<b>LINE 31</b>	<b>2351cc (2.4L) SOHC 16V 4G64 (Mitsubishi) Vin G</b>		<b>2001-05 L4</b>	<b>BORE - 3.41"/86.5mm</b>
Valve	Exh	2001-05	<b>10-10535</b>	1.142 Head Dia.
	Int	2001-05	<b>10-10534</b>	1.299 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	2001-05	<b>21-1250-59</b>	0.982 I.D. 1-1/4 O.D. 0.329 Depth.
	Int	2001-05	<b>21-1375-62</b>	1.100T I.D. 1-3/8 O.D. 0.300 Depth.
Guide	Exh	2001-05	<b>30-8571</b>	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	2001-05	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	2001-05	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	2001-05	<b>36-6000</b>	Hydraulic
Valve Stem Seal	Both	2001-05	<b>38-553-55</b>	Viton. Metal Clad
<b>LINE 32</b>	<b>2359cc (2.4L) DOHC 16V VVT Vin B,F,J,K,W</b>		<b>2007-16 L4</b>	<b>BORE - 88mm/3.46"</b>
Valve	Exh	2007-15	<b>10-13191</b>	1.148 Head Dia. 0.215 Stem
	Int	2007-15	<b>10-13190</b>	1.378 Head Dia. 0.215 Stem
Guide	Both	2007-15	<b>30-3154</b>	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Spring	Both	2007-15	<b>32-5003</b>	1.941 Free Length
Keeper	Both	2007-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Lifter	Both	2013-15	<b>36-7561</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2007-15	<b>38-6101-55</b>	Viton. Top Hat
<b>LINE 33</b>	<b>2429cc (2.4L) DOHC 16V Vin B,E,G,J,S,X,1,8,9</b>		<b>1995-10 L4</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1995-00	<b>10-1731</b>	1.201 Head Dia. Single Groove
	Exh	2000-10	<b>10-2009</b>	1.120 Head Dia. Non Turbo. 3 Groove
	Exh	2003-10	<b>10-2035</b>	1.120 Head Dia. Turbo. 3 Groove
	Int	1995-00	<b>10-1730</b>	1.370 Head Dia. Single Groove
	Int	2000-10	<b>10-2008</b>	1.370 Head Dia. Non and Turbo. 3 Groove
Valve Seat Insert	Exh	2000-10	<b>21-1250-63</b>	0.930 I.D. 1-1/4 O.D. 0.325 Depth
	Exh	1995-99	<b>21-1375-64</b>	1.000 I.D. 1-3/8 O.D. 0.280 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 33</b>	<b>2429cc (2.4L) DOHC 16V Vin B,E,G,J,S,X,1,8,9</b>			<b>1995-10 L4 BORE - 3.445"/87.5mm</b>
Valve Seat Insert	Int	1995-10	21-1500-77	1.175T I.D. 1-1/2 O.D. 0.236 Depth.
Guide	Both	1995-10	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	1995-10	32-2230	1.905 Free Length
Keeper	Both	2000-10	34-07050	3 Groove. 0.234 Stem
	Both	1995-99	34-719	1 Round Groove. Heat Treated
Lifter	Both	1995-10	36-2278	Hydraulic
Valve Stem Seal	Both	1995-10	38-20-45	Viton. Top Hat.
Rocker Component	Both	1995-10	40-2702	Cam Follower. Exc. Turbo
Expansion Plug Kit		1995-10	97-167	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 34</b>	<b>150 C.I. (2.5L) AMC Vin E,H,P,U OHV 8V</b>			<b>1983-02 L4 BORE - 3.875"/98.4mm</b>
Valve	Exh	1983-90	10-1478	1.500 Head Dia. Square Groove. +3, +15 O/S Stem May Be Avail.
	Exh	1983-99	10-1556	1.500 Head Dia. 1 Round Groove. +3, +15 O/S Stem Avail.
	Exh	2000-02	10-1917	1.910 Head Dia. 3 Groove. +3, 15 O/S Stem May Be Avail.
	Int	1983-90	10-1479	1.910 Head Dia. Square Groove. +3, +15 O/S Stem May Be Avail.
	Int	1983-99	10-1557	1.910 Head Dia. 1 Round Groove. +3, +15 O/S Stem Avail.
	Int	2000-02	10-1916	1.910 Head Dia. 3 Groove. +3, 15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1983-02	20-1562-36	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth.
	Int	1983-02	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Exh	1983-02	30-8494	2.436 OAL. w/ Seal Boss
	Exh	1983-98	30-9848	2.430 OAL. Conversion
	Int	1983-02	30-7847	2.250 OAL
Spring	Both	1983-96	32-1242	1.820 Free Length. 83-87, 88 Eagle.
	Both	1988-97	32-1278	1.967 Free Length, Conical. 88: Jeep. 89-97: All. Use w/ Round Groove Valves.
	Both	1996-02	32-2225	1.890 Free Length.
Keeper	Both	2000-02	34-00515	3 Round Grooves
	Both	1983-99	34-217	0.311 Stem Dia. 1 Round Groove. Heat Treated
	Both	1983-90	34-614	Heat Treated. 1 Groove.
Lifter	Both	1983-02	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1983-98	38-535-45	Viton. Ring And Band. For 5/16 Stem.
	Exh	1999-02	38-802-45	Viton. Metal Clad. For 5/16 Stem
	Int	1983-98	38-535-25	Polyacrylic. Ring And Band.
	Int	1999-02	38-940-45	Viton. 2-Ring.
Rocker Component	Both	1988-98	40-2740	Rocker Arm, Stamped. '88-89 Eagle, '97-98 Jeep.
Expansion Plug Kit		1983-02	97-129	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 35</b>	<b>151 C.I. (2.5L) GM 8V Vin B OHV</b>			<b>1980-84 L4 BORE - 4.00"/101.6mm</b>
Valve	Exh	1980-84	10-1437	1.500 Head Dia. +3, 15 O/S Stem Avail.
	Int	1980-84	10-1438	1.720 Head Dia. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1980-84	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1980-84	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both	1980-84	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1980-84	32-685-D	2.050 Free Length. w/ Damper
Keeper	Both	1980-84	34-555	1 Square Groove. Heat Treated
Lifter	Both	1980-84	36-969	Hydraulic

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 35</b>	<b>151 C.I. (2.5L) GM 8V Vin B OHV</b>		<b>1980-84 L4</b>	<b>BORE - 4.00"/101.6mm</b>
Valve Stem Seal	Both	1980-84	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1980-83	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1980-84	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1980-84	<b>97-74</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 36</b>	<b>2497cc (2.5L) SOHC 24V 6G73 (Mits.) Vin H, N</b>		<b>1995-00 V6</b>	<b>BORE - 3.29"/83.5mm</b>
Valve	Exh	1995-00	<b>10-10535</b>	1.142 Head Dia.
	Int	1995-00	<b>10-10534</b>	1.299 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1995-00	<b>21-1250-59</b>	0.982 I.D. 1-1/4 O.D. 0.329 Depth.
	Int	1995-00	<b>21-1375-62</b>	1.100T I.D. 1-3/8 O.D. 0.300 Depth.
Guide	Exh	1995-00	<b>30-8571</b>	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	1995-00	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1995-00	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1995-00	<b>36-6000</b>	Hydraulic
Valve Stem Seal	Both	1995-00	<b>38-998-45</b>	Viton. Metal Clad.
	Int	1995-00	<b>38-553-55</b>	Viton. Metal Clad
<b>LINE 37</b>	<b>153 C.I. (2.5L) SOHC 8V Vin G, K, V</b>		<b>1986-95 L4</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1986-95	<b>10-1552</b>	1.394 Head Dia. 0.312T Stem. 4 Groove. +15 O/S Stem Avail.
	Int	1986-95	<b>10-1553</b>	1.599 Head Dia. Square Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1986-95	<b>21-1500-63</b>	1.210T I.D. 1-1/2 O.D. 0.345 Depth.
	Int	1986-95	<b>21-1687-51</b>	1.390T I.D. 1-11/16 O.D. 0.305 Depth.
Guide	Exh	1986-95	<b>30-7451N</b>	1.693 OAL. 0.4937 O.D. +2 Incl. Lock Ring
	Exh	1986-95	<b>30-7662</b>	1.693 OAL. w/ 0.502 O.D. +2 O/S Avail. Incl. Lock Ring
	Exh	1986-95	<b>30-8419</b>	1.693 OAL 0.3125 I.D. 0.4934 O.D. W/ Snap Ring,
	Int	1986-95	<b>30-7429N</b>	w/ 0.4937 O.D. 1.575 OAL +2 O/S Avail.
	Int	1986-95	<b>30-7661</b>	1.575 OAL. w/ 0.502 O.D. +2 O/S Avail. Incl. Lock Ring
	Int	1986-95	<b>30-8418</b>	1.575 OAL 0.3125 I.D. 0.4937 O.D.
Spring	Both	1986-95	<b>32-1246</b>	2.160 Free Length
Keeper	Exh	1986-95	<b>34-237</b>	4 Groove
	Int	1986-95	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1986-95	<b>36-2105</b>	Hydraulic
Valve Stem Seal	Both	1986-95	<b>38-535-45</b>	Viton. Ring And Band. For 5/16 Stem.
	Both	1986-95	<b>38-6116-45</b>	Viton. All Rubber
	Int	1986-95	<b>38-535-25</b>	Polyacrylic. Ring And Band.
Rocker Component	Both	1986-87	<b>40-2809</b>	Cam Follower, Stamped
Expansion Plug Kit		1986-95	<b>97-88</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 38</b>	<b>153 C.I. (2.5L) SOHC Turbo Vin J 8V</b>		<b>1989-92 L4</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1989-92	<b>10-1554</b>	1.394 Head Dia. 4 Groove. 4.523 OAL
	Int	1989-92	<b>10-1555</b>	1.598 Head Dia. Square Groove
Valve Seat Insert	Exh	1989-92	<b>21-1500-63</b>	1.210T I.D. 1-1/2 O.D. 0.345 Depth.
	Int	1989-92	<b>21-1687-51</b>	1.390T I.D. 1-11/16 O.D. 0.305 Depth.
Guide	Exh	1989-92	<b>30-7451N</b>	1.693 OAL. 0.4937 O.D. +2 Incl. Lock Ring
	Exh	1989-92	<b>30-7662</b>	1.693 OAL. w/ 0.502 O.D. +2 O/S Avail. Incl. Lock Ring
	Exh	1989-92	<b>30-8419</b>	1.693 OAL 0.3125 I.D. 0.4934 O.D. W/ Snap Ring,
	Int	1989-92	<b>30-7429N</b>	w/ 0.4937 O.D. 1.575 OAL +2 O/S Avail.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 38</b>	<b>153 C.I. (2.5L) SOHC Turbo Vin J 8V</b>			<b>1989-92 L4 BORE - 3.445"/87.5mm</b>
Guide	Int	1989-92	<b>30-7661</b>	1.575 OAL. w/ 0.502 O.D. +2 O/S Avail. Incl. Lock Ring
	Int	1989-92	<b>30-8418</b>	1.575 OAL 0.3125 I.D. 0.4937 O.D.
Spring	Both	1989-92	<b>32-1246</b>	2.160 Free Length
Keeper	Exh	1989-92	<b>34-237</b>	4 Groove
	Int	1989-92	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1989-92	<b>36-2105</b>	Hydraulic
Valve Stem Seal	Both	1989-92	<b>38-535-25</b>	Polyacrylic. Ring And Band.
	Both	1989-92	<b>38-535-45</b>	Viton. Ring And Band. For 5/16 Stem.
Expansion Plug Kit		1989-92	<b>97-88</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 39</b>	<b>2555cc (2.6L) SOHC 8V G54B Incl. Turbo (Mits.)</b>			<b>1978-89 L4 BORE - 3.58"/91 mm</b>
Valve	Exh	1978-80	<b>10-10064</b>	1.376 Head Dia. Square Groove
	Exh	1981-84	<b>10-10091S</b>	1.495 Head Dia. Square Groove +15 O/S Stem May Be Avail.
	Exh	1984-89	<b>10-10146</b>	1.493 Head Dia. Round Groove.
	Exh	1984-89	<b>10-10146S</b>	1.493 Head Dia. Round Groove. Turbo
	Int	1978-80	<b>10-10065</b>	1.689 Head Dia. Square Groove
	Int	1981-84	<b>10-10092</b>	1.810 Head Dia. Square Groove +15 O/S Stem May Be Avail.
	Int	1984-89	<b>10-10145</b>	1.810 Head Dia. Round Groove.
Valve Seat Insert	Exh	1978-80	<b>21-1500-62</b>	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Exh	1981-89	<b>21-1625-56</b>	1.298T I.D. 1-5/8 O.D. 0.317 Depth
	Int	1978-80	<b>21-1750-61</b>	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
	Int	1981-89	<b>21-1875-51</b>	1.575T I.D. 1-7/8 O.D. 0.317 Depth.
Guide	Exh	1978-89	<b>30-7575</b>	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1979-89	<b>30-8226</b>	2.046 OAL. 0.5645 O.D.
	Int	1978-89	<b>30-7574</b>	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
	Int	1979-89	<b>30-8225</b>	1.848 OAL. 0.5645 O.D.
Spring	Both	1981-84	<b>32-1125</b>	1.875 Free Length, To 4/84
	Both	1984-89	<b>32-1289</b>	1.960 Free Length, From 5/84
Keeper	Both	1984-89	<b>34-716</b>	1 Round Groove. Heat Treated
	Both	1978-84	<b>34-813</b>	1 Square Groove. Heat Treated
Lifter	Both	05/84-89	<b>36-6000</b>	Hydraulic
Valve Stem Seal	Both	1978-87	<b>38-938-45</b>	Viton. Ring And Band.
	Both	1978-89	<b>38-964-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1978-89	<b>97-0216</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 40</b>	<b>2687cc (2.7L) DOHC 20V Vin 4,2,C (Mercedes) Diesel</b>			<b>2002-07 L5 BORE - 88mm/3.46"</b>
Valve	Exh	2004-06	<b>10-13074</b>	1.032 Head Dia.
	Exh	2002-03	<b>10-2235</b>	1.120 Head Dia.
	Int	2004-06	<b>10-13073</b>	1.130 Head Dia.
	Int	2002-03	<b>10-2234</b>	1.189 Head Dia.
Guide	Both	2002-07	<b>30-3255</b>	1.476 OAL
Keeper	Both	2002-07	<b>34-5026</b>	1 Round Groove
Valve Stem Seal	Both	2002-07	<b>38-5080-55</b>	Viton. Metal Clad.
<b>LINE 41</b>	<b>165 C.I. (2.7L) DOHC 24V Vin R, T, U</b>			<b>1998-10 V6 BORE - 3.39"/86mm</b>
Valve	Exh	1998-10	<b>10-1921</b>	1.094 Head Dia.
	Int	1998-10	<b>10-1920</b>	1.331 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 41</b>	<b>165 C.I. (2.7L) DOHC 24V Vin R, T, U</b>		<b>1998-10</b>	<b>V6 BORE - 3.39"/86mm</b>
Guide	Both	1998-10	<b>30-3019</b>	1.615 OAL
Spring	Both	1998-10	<b>32-2215</b>	1.800 Free Length
Keeper	Both	1998-10	<b>34-03722</b>	3 Round Grooves
Lifter	Both	1998-10	<b>36-2297</b>	Hydraulic
Valve Stem Seal	Both	1998-10	<b>38-20-45</b>	Viton. Top Hat.
Expansion Plug Kit		1998-10	<b>97-164</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 42</b>	<b>170 C.I. (2.8L) 12V Vin 6, A</b>		<b>1960-69</b>	<b>L6 BORE - 3.40"/86.36mm</b>
Valve	Exh	1960-69	<b>10-1265</b>	1.360 Head Dia. 4 Groove. +3 & +5 & +15 O/S Stem Avail.
	Int	1960-69	<b>10-567</b>	1.620 Head Dia. 2 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1960-69	<b>20-1437-1</b>	1-1/4 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1960-69	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Exh	1960-69	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1960-69	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1960-69	<b>32-672</b>	1.394/1.414 O.D. 2.000 Free Length
Keeper	Exh	1960-69	<b>34-766</b>	4 Groove. Heat Treated
	Int	1960-69	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1960-69	<b>36-2084</b>	Mechanical High Performance
Valve Stem Seal	Both	1960-69	<b>38-253-45</b>	Viton. Umbrella.
	Both	1960-69	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
Expansion Plug Kit		1960-69	<b>97-13</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 43</b>	<b>173 C.I. (2.8L) GM OHV 12V Vin W</b>		<b>1984-87</b>	<b>V6 BORE - 3.50"/88.9mm</b>
Valve	Exh	1984-87	<b>10-1394</b>	1.307 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1984-87	<b>10-1395</b>	1.600 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1984-87	<b>20-1437-3</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1984-87	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both	1984-86	<b>30-7560</b>	2.000 OAL 0.3440 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1984-87	<b>30-9560</b>	2.000 OAL. Spiral I.D. 30-7560 Plain I.D. Also Avail.
Spring	Both	1984-87	<b>32-1190-D</b>	1.950 Free Length. w/ Damper
Keeper	Both	1984-87	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1984-86	<b>36-2095</b>	Hydraulic
Valve Stem Seal	Both	1984-87	<b>38-938-45</b>	Viton. Ring And Band.
Rocker Component	Both	1984-86	<b>40-2864</b>	Rocker Arm. Stamped
Rocker Kit	Both	1984-86	<b>41-2407</b>	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1984-86	<b>42-2948</b>	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Push Rod		1984-86	<b>74-6342</b>	6.163 Length
Expansion Plug Kit		1984-86	<b>97-75</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 44</b>	<b>2972cc (3.0L) SOHC 12V 6G72 Vin H, S, 3 (Mits.)</b>		<b>1987-00</b>	<b>V6 BORE - 3.58"/91mm</b>
Valve	Exh	1987-00	<b>10-10148</b>	1.378 Head Dia. 0.030 Shorter Than OEM.
	Exh	1987-00	<b>10-10625</b>	1.378 Head Dia. OEM Length
	Int	1987-00	<b>10-10147</b>	1.693 Head Dia. 0.030 Shorter Than OEM.
	Int	1987-00	<b>10-10624</b>	1.693 Head Dia. OEM Length
Valve Seat Insert	Exh	1987-00	<b>21-1562-69</b>	1.219 I.D. 1-9/16 O.D. 0.317 Depth.
	Exh	1987-00	<b>21-1562-69N</b>	1.219 I.D. 1-9/16 O.D. 0.317. Non-Magnetic Nickel
	Int	1987-00	<b>21-1750-61</b>	1.445T I.D. 1-3/4 O.D. 0.310 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 44</b>	<b>2972cc (3.0L) SOHC 12V 6G72 Vin H, S, 3 (Mits.)</b>			<b>1987-00 V6</b>	<b>BORE - 3.58"/91mm</b>
Guide	Exh	1987-00	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring	
	Int	1987-00	30-7576	1.735 OAL. +2 O/S Avail.	
Spring	Both	1987-00	32-1289	1.960 Free Length	
Keeper	Both	1987-00	34-716	1 Round Groove. Heat Treated	
Lifter	Both	1987-00	36-6000	Hydraulic	
Valve Stem Seal	Both	1987-00	38-964-55	Viton. Metal Clad.	
Expansion Plug Kit		1987-92	97-127	Steel Kit. Brass Kit Avail. In Suffix B	
		1992-00	97-155	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 45</b>	<b>2972cc (3.0L) DOHC 24V 6G72/T Vin B, J (Mits.)</b>			<b>1991-96 V6</b>	<b>BORE - 3.58"/91mm</b>
Valve	Exh	1991-96	10-10501	1.199 Head Dia.	
	Int	1991-96	10-10500	1.375 Head Dia.	
Valve Seat Insert	Exh	1991-96	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
	Int	1991-96	21-1437-59	1.180T I.D. 1-7/16 O.D. 0.305 Depth.	
Guide	Exh	1991-96	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.	
	Int	1991-96	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.	
Keeper	Both	1991-96	34-716	1 Round Groove. Heat Treated	
Lifter	Both	1991-96	36-2274	Hydraulic	
Valve Stem Seal	Both	1991-96	38-964-55	Viton. Metal Clad.	
	Both	1991-96	38-996-55	Viton. Metal Clad	
Expansion Plug Kit		1991-96	97-155	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 46</b>	<b>2972cc (3.0L) SOHC 24V 6G72 Vin H (Mits.)</b>			<b>2001-05 V6</b>	<b>BORE - 3.58"/91mm</b>
Valve	Exh	2001-05	10-10535	1.142 Head Dia.	
	Int	2001-05	10-10534	1.299 Head Dia. 0.235 Stem	
Valve Seat Insert	Exh	2001-05	21-1250-59	0.982 I.D. 1-1/4 O.D. 0.329 Depth.	
	Int	2001-05	21-1375-62	1.100T I.D. 1-3/8 O.D. 0.300 Depth.	
Guide	Exh	2001-05	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.	
	Int	2001-05	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.	
Keeper	Both	2001-05	34-716	1 Round Groove. Heat Treated	
Lifter	Both	2001-05	36-6000	Hydraulic	
Valve Stem Seal	Both	2001-05	38-553-55	Viton. Metal Clad	
	Both	2001-05	38-998-45	Viton. Metal Clad.	
<b>LINE 47</b>	<b>2987cc (3.0L) DOHC 24V Diesel (Mercedes)</b>			<b>2007-09 V6</b>	<b>BORE - 83mm/3.27</b>
Valve	Exh	2007-09	10-13357	1.000 Head Dia. 0.2346 Stem	
	Int	2007-09	10-13356	1.122 Head Dia. 0.2349 Stem	
Keeper	Both	2007-09	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2007-09	36-7561	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2007-09	38-9675-45	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 48</b>	<b>2988cc (3.0L) DOHC 24V Turbo VR630</b>			<b>2014-16 V6</b>	<b>BORE - 83mm / 3.267"</b>
No Parts Available			00		
<b>LINE 49</b>	<b>196 C.I. (3.2L) AMC</b>			<b>1957-65 L6</b>	<b>BORE -</b>
Guide	Exh	1961-64	30-5606	2.375 OAL 0.3440 I.D., Plain. 0.5020 O.D. 30-9606 Spiral I.D. Also Avail.	
	Int	1961-64	30-6867	2.125 OAL 0.3440 I.D., Plain 0.5020 O.D. 30-9867 Spiral I.D. Also Avail.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 50</b>	<b>197 C.I. (3.2L) SOHC 24V Vin J</b>		<b>1998-01 V6</b>	<b>BORE - 3.62"/91.9mm</b>
Valve	Exh	1998-01	10-1713	1.142 Head Dia. 0.272 Stem
	Int	1998-01	10-1901	1.437 Head Dia. 0.273 Stem
Guide	Exh	1998-01	30-8547	2.160 OAL. 0.4545 O.D. 0.276 I.D.
	Int	1998-01	30-8548	2.040 OAL. 0.4545 O.D. 0.275 I.D.
Spring	Exh	1998-01	32-2223	1.740 Free Length. Conical
	Int	1998-01	32-2222	1.720 Free Length. Conical
Keeper	Both	1998-01	34-06513	3 Round Grooves
Lifter	Both	1998-98	36-7078	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1998-01	38-20-45	Viton. Top Hat.
<b>LINE 51</b>	<b>3239cc (3.2L) DOHC 24V EHB</b>		<b>2014-16 V6</b>	<b>BORE - 91mm/3.583</b>
No Parts Available			00	
<b>LINE 52</b>	<b>198 C.I. (3.2L) 12V Vin A, B</b>		<b>1970-74 L6</b>	<b>BORE - 3.40"/86.4mm</b>
Valve	Exh	1970-74	10-1265	1.360 Head Dia. 4 Groove. +3 & +5 & +15 O/S Stem Avail.
	Int	1970-74	10-567	1.620 Head Dia. 2 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1970-74	20-1437-1	1-1/4 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1970-74	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Exh	1970-74	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1970-74	30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Keeper	Exh	1970-74	34-766	4 Groove. Heat Treated
	Int	1970-74	34-746	2 Round Grooves. OEM # 381875.
Lifter	Both	1970-74	36-2084	Mechanical High Performance
Valve Stem Seal	Both	1970-74	38-1068-70	Teflon And Rubber. 0.372 Stem Dia.
	Both	1970-74	38-535-25	Polyacrylic. Ring And Band.
	Both	1970-74	38-535-45	Viton. Ring And Band. For 5/16 Stem.
	Both	1970-74	38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Both	1970-74	38-928-25	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1970-74	97-13	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 53</b>	<b>199 C.I. (3.3L) AMC Vin A</b>		<b>1965-70 L6</b>	<b>BORE - 3.75"/95.25mm</b>
Valve	Exh	1967-70	10-1441	1.406 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
	Exh	1965-66	10-549	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int	1967-70	10-1442	1.787 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
	Int	1965-66	10-550	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1965-70	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1965-70	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1965-70	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1965-70	32-863	2.260 Free Length.
Keeper	Both	1967-70	34-613	1 Groove. Heat Treated
	Both	1965-66	34-766	4 Groove. Heat Treated
Lifter	Both	1965-70	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1965-70	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1965-70	38-938-45	Viton. Ring And Band.
Expansion Plug Kit		1965-70	97-1	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 54</b>	<b>201 C.I. (3.3L) OHV 12V Vin 3,E,G,H,R,S,T,U</b>			<b>1990-10 V6 BORE - 3.66"/93mm</b>
Valve	Exh	1990-97	10-1670	1.476 Head Dia. 4 Groove +15 O/S Stem May Be Avail.
	Exh	1998-00	10-1905	1.476 Head Dia. 4 Groove
	Exh	2001-10	10-1994	1.398 Head Dia. 0.272 Stem. 4 Groove
	Int	1990-97	10-1671	1.791 Head Dia. 2 Groove +15 O/S Stem May Be Avail.
	Int	1994-97	10-1870	1.791 Head Dia. 2 Groove w/ Flex Fuel
	Int	1998-00	10-1904	1.791 Head Dia. 2 Groove
	Int	2001-10	10-1993	1.890 Head Dia. 0.273 Stem. 4 Groove
Valve Seat Insert	Exh	2001-10	21-1500-71	1.240 I.D. 1-1/2 O.D. 0.317 Depth.
	Exh	1990-00	21-1562-74	1.290T I.D. 1-9/16 O.D. 0.324 Depth.
	Int	1990-00	21-1875-54	1.575T I.D. 1-7/8 O.D. 0.290 Depth.
	Int	2001-10	21-1937-55	1.640T I.D. 1-15/16 O.D. 0.290 Depth
Guide	Both	2001-10	30-3023	2.275 OAL. Use w/ 0.275 Stem Valves
	Both	1998-00	30-8177	2.397 OAL. 0.5527 O.D.
	Both	1990-97	30-8219	2.275 OAL
Spring	Both	1990-00	32-1282	1.909 Free Length
	Both	2001-10	32-2234	2.065 Free Length. Conical
Keeper	Both	2001-10	34-01030	4 Groove
	Exh	1990-00	34-237	4 Groove
	Int	1990-00	34-5027	2 Round Grooves. w/ .3128 Stem
Lifter	Both	1990-08	36-2269	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install
	Both	2009-10	36-2332	Hydraulic Roller. 0.842 O.D.
Valve Stem Seal	Both	2001-10	38-226-45	Viton. All Rubber
	Both	1990-00	38-535-25	Polyacrylic. Ring And Band.
	Both	1990-00	38-535-45	Viton. Ring And Band. For 5/16 Stem.
Rocker Component	Both	1990-00	40-2758	Rocker Arm
		1990-00	42-2677	Rocker Shaft
Expansion Plug Kit		1990-09	97-105	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 55</b>	<b>215 C.I. (3.5L) SOHC 24V Vin F, G, K, M, V, 4</b>			<b>1993-10 V6 BORE - 3.78"/96mm</b>
Valve	Exh	1993-10	10-1713	1.142 Head Dia. 0.272 Stem
	Int	1993-97	10-1712	1.378 Head Dia. +15 O/S Stem May Be Avail.
	Int	1998-10	10-1901	1.437 Head Dia. 0.273 Stem
Guide	Exh	1993-10	30-8547	2.160 OAL. 0.4545 O.D. 0.276 I.D.
	Int	1993-10	30-8548	2.040 OAL. 0.4545 O.D. 0.275 I.D.
Spring	Exh	1993-97	32-2221	1.799 Free Length
	Exh	1998-10	32-2223	1.740 Free Length. Conical
	Int	1998-10	32-2222	1.720 Free Length. Conical
Keeper	Both	1993-10	34-06513	3 Round Grooves
Lifter	Both	1993-10	36-7078	Hydraulic
Valve Stem Seal	Both	1993-10	38-20-45	Viton. Top Hat.
Expansion Plug Kit		1993-94	97-124	Steel Kit. Brass Kit Avail. In Suffix B
		1995-10	97-125	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 56</b>	<b>218 C.I. (3.6L) Chrysler</b>			<b>1941-57 L6 BORE - 3.25"/82.55mm</b>
Valve	Exh	1941-57	10-185	1.407 Head Dia.
	Int	1941-57	10-349	1.531 Head Dia.
Valve Seat Insert	Int	1941-57	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 56</b>	<b>218 C.I. (3.6L) Chrysler</b>		<b>1941-57 L6</b>	<b>BORE - 3.25"/82.55mm</b>
Valve Seat Insert	Exh	1941-57	22-1516-1	1-1/4 I.D. 1.516 O.D. 1/4 Depth
Guide	Exh	1941-57	30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Int	1941-57	30-1338	2.813 OAL
Keeper	Both	1941-57	34-743	2 Round Grooves. OEM # 395931
<b>LINE 57</b>	<b>3604cc (3.6L) DOHC 24V Vin G</b>		<b>2011-16 V6</b>	<b>BORE - 96mm/3.78"</b>
Valve	Exh	2011-15	10-13264	1.181 Head Dia. 0.2347 Stem
	Int	2011-15	10-13263	1.535 Head Dia. 0.235 Stem
Keeper	Both	2011-15	34-03722	3 Groove. 0.235 Stem
Lifter	Both	2011-15	36-7561	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2011-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 58</b>	<b>225 C.I. (3.7L) OHV Vin 6, B-F, H, J, M, N, W, X</b>		<b>1960-87 L6</b>	<b>BORE - 3.40"/86.36mm</b>
Valve	Exh	1960-87	10-1265	1.360 Head Dia. Exc. Premium & H.D. 4 Groove. +3 & +5 & +15 O/S Stem Avail.
	Int	1960-87	10-567	1.620 Head Dia. 2 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1960-87	20-1437-1	1-1/4 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1960-87	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Exh	1960-87	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1960-87	30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1960-87	32-672	1.394/1.414 O.D. Exc. Premium, Med. H/D and Model D500 L/D Engines Int Only. 2.000 Free Length
	Exh	1963-78	32-925	Truck Premium Eng. 1.880 Free Length
Keeper	Both	1960-87	34-746	2 Round Grooves. OEM # 381875.
	Exh	1960-87	34-766	4 Groove. Heat Treated
Lifter	Both	1960-80	36-2084	Mechanical High Performance
	Both	1981-87	36-2089	Hydraulic
Valve Stem Seal	Both	1960-87	38-1068-70	Teflon And Rubber. 0.372 Stem Dia.
	Both	1960-87	38-253-45	Viton. Umbrella.
	Both	1960-87	38-254-45	Viton. Umbrella.
	Both	1960-87	38-535-25	Polyacrylic. Ring And Band.
	Both	1960-87	38-535-45	Viton. Ring And Band. For 5/16 Stem.
	Both	1960-87	38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
Expansion Plug Kit	Both	1960-87	38-928-25	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
		1960-87	97-13	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 59</b>	<b>225 C.I. (3.7L) GM Vin H, P</b>		<b>1965-71 V6</b>	<b>BORE - 3.75"/95.25mm</b>
Valve	Exh	1965-71	10-976	1.375 Head Dia.
	Int	1965-71	10-975	1.625 Head Dia.
Valve Seat Insert	Exh	1965-71	20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1965-71	20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
Guide	Exh	1965-71	30-9460	2.500 OAL. Spiral I.D. 30-7460 Plain I.D. Also Avail.
	Int	1965-71	30-9105	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
Spring	Both	1965-71	32-804	2.000 Free Length.
Keeper	Both	1965-71	34-219	Heat Treated
Valve Stem Seal	Both	1965-71	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1965-71	97-57	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 60</b>	<b>230 C.I. (3.7L) 12V AMC</b>		<b>1962-68 L6</b>	<b>BORE - 3.3438"/84.9mm</b>
Valve Seat Insert	Exh	1962-68	<b>20-1750-4</b>	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Also Avail. In Non-Magnetic Matl. In -N Suffix
	Int	1962-68	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Both	1962-68	<b>30-1900</b>	2.180 OAL
<b>LINE 61</b>	<b>226 C.I. (3.7L) SOHC 12V Vin K</b>		<b>2002-12 V6</b>	<b>BORE - 92.7mm/3.66"</b>
Valve	Exh	2002-12	<b>10-1919</b>	1.457 Head Dia. 3 Groove
	Int	2002-12	<b>10-1918</b>	1.915 Head Dia. 3 Groove
Valve Seat Insert	Exh	2002-12	<b>21-1500-50</b>	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Exh	2002-12	<b>21-1562-66</b>	1.265T I.D. Alternate 1-9/16 O.D, Check Casting. 0.280 Depth.
	Int	2002-12	<b>21-2000-51</b>	1.690T I.D. 2.000 O.D. 0.270 Depth
Guide	Both	2002-12	<b>30-3026</b>	1.702 OAL
Spring	Both	2002-12	<b>32-2482</b>	1.950 Free Length. Revised Conical Design
Keeper	Both	2002-12	<b>34-06513</b>	3 Round Grooves
Lifter	Both	2002-12	<b>36-2271</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2002-12	<b>38-752-45</b>	Viton. Top Hat
Expansion Plug Kit		2002-12	<b>97-166</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 62</b>	<b>226 C.I. (3.7L) AMC</b>		<b>1954-65 L6</b>	<b>BORE - 3.3125"/84.14mm</b>
Valve	Exh	1954-65	<b>10-210</b>	1.328 Head Dia.
	Int	1954-65	<b>10-211</b>	1.520 Head Dia.
Valve Seat Insert	Exh	1954-65	<b>20-1437-3</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1954-65	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both	1954-65	<b>30-1515</b>	2.563 OAL
Keeper	Exh	1954-65	<b>34-555</b>	1 Square Groove. Heat Treated
<b>LINE 63</b>	<b>230 C.I. (3.8L) Chrysler</b>		<b>1941-60 L6</b>	<b>BORE - 3.25"/82.55mm</b>
Valve	Exh	1941-60	<b>10-185</b>	1.407 Head Dia.
	Int	1941-60	<b>10-349</b>	1.531 Head Dia.
Valve Seat Insert	Int	1941-60	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh	1941-60	<b>22-1516-1</b>	1-1/4 I.D. 1.516 O.D. 1/4 Depth
Guide	Exh	1941-60	<b>30-1337</b>	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Int	1941-60	<b>30-1338</b>	2.813 OAL
Spring	Both	1951-60	<b>32-415</b>	2.016 Free Length.
Keeper	Both	1941-60	<b>34-743</b>	2 Round Grooves. OEM # 395931
Valve Stem Seal	Both	1941-60	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
Expansion Plug Kit		1941-60	<b>97-61</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 64</b>	<b>232 C.I. (3.8L) OHV Vin B,C,E,G AMC</b>		<b>1964-79 L6</b>	<b>BORE - 3.75"/95.2mm</b>
Valve	Exh	1973-79	<b>10-1325</b>	1.406 Head Dia. w/o Rotator, 4 Groove. +15 O/S Stem Avail.
	Exh	1967-72	<b>10-1441</b>	1.406 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
	Exh	1964-66	<b>10-549</b>	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int	1973-79	<b>10-1260</b>	1.787 Head Dia. 4 Groove. +3, 15 O/S Stem May Be Avail.
	Int	1967-72	<b>10-1442</b>	1.787 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
	Int	1964-66	<b>10-550</b>	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1964-79	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 64</b>	<b>232 C.I. (3.8L) OHV Vin B,C,E,G AMC</b>			<b>1964-79 L6</b>	<b>BORE - 3.75"/95.2mm</b>
Valve Seat Insert	Int	1964-79	<b>20-1875-1</b>	1.5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.	
Guide	Both	1964-79	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.	
Spring	Both	1974-76	<b>32-1040</b>	1.910 Free Length. Use w/ Rotator	
	Both	1964-79	<b>32-1082</b>	w/o Rotator. 2.035 Free Length 1978-79 w/ 2 Bbl Carb	
Keeper	Both	1967-72	<b>34-613</b>	1 Groove. Heat Treated. 3/8 Stem	
	Both	1964-79	<b>34-766</b>	4 Groove. Heat Treated	
	Exh	1973-74	<b>34-555</b>	1 Square Groove. Heat Treated.	
Lifter	Both	1964-79	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron	
Valve Stem Seal	Both	1973-79	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.	
	Both	1964-79	<b>38-938-45</b>	Viton. Ring And Band. Use w/ 0.552 O.D. Guide	
Expansion Plug Kit		1964-79	<b>97-1</b>	Steel Kit. Brass Kit Avail. In Suffix B	

<b>LINE 65</b>	<b>232 C.I. (3.8L) OHV 12V Vin 1,L,P</b>			<b>1991-11 V6</b>	<b>BORE - 3.78"/96mm</b>
Valve	Exh	1991-99	<b>10-1670</b>	1.476 Head Dia. 4 Groove +15 O/S Stem May Be Avail.	
	Exh	2000-00	<b>10-1905</b>	1.476 Head Dia. 4 Groove	
	Exh	2001-11	<b>10-1994</b>	1.398 Head Dia. 4 Groove	
	Int	1991-99	<b>10-1671</b>	1.791 Head Dia. 2 Groove +15 O/S Stem May Be Avail.	
	Int	2000-00	<b>10-1904</b>	1.791 Head Dia. 2 Groove	
	Int	2001-11	<b>10-1993</b>	1.890 Head Dia. 4 Groove	
Valve Seat Insert	Exh	2001-11	<b>21-1500-71</b>	1.240 I.D. 1-1/2 O.D. 0.317 Depth.	
	Exh	1991-00	<b>21-1562-74</b>	1.290T I.D. 1-9/16 O.D. 0.324 Depth.	
	Int	1991-00	<b>21-1875-54</b>	1.575T I.D. 1-7/8 O.D. 0.290 Depth.	
	Int	2001-11	<b>21-1937-55</b>	1.640T I.D. 1-15/16 O.D. 0.290 Depth	
Guide	Both	2001-11	<b>30-3023</b>	2.275 OAL. Use w/ 7mm stem valves, +2 Also Avail.	
	Both	1991-00	<b>30-8219</b>	2.275 OAL	
Spring	Both	1991-00	<b>32-1282</b>	1.909 Free Length	
	Both	2001-11	<b>32-2234</b>	2.065 Free Length. Conical	
Keeper	Both	2001-11	<b>34-01030</b>	4 Groove	
	Exh	1991-00	<b>34-237</b>	4 Groove	
	Int	1991-00	<b>34-5027</b>	2 Round Grooves. w/ .3128 Stem	
Lifter	Both	1991-08	<b>36-2269</b>	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install	
	Both	2009-11	<b>36-2332</b>	Hydraulic Roller. 0.842 O.D.	
Valve Stem Seal	Both	2001-11	<b>38-226-45</b>	Viton. All Rubber	
	Both	1991-00	<b>38-535-25</b>	Polyacrylic. Ring And Band.	
	Both	1991-00	<b>38-535-45</b>	Viton. Ring And Band. For 5/16 Stem.	
Rocker Component	Both	1991-00	<b>40-2758</b>	Rocker Arm	
		1991-00	<b>42-2677</b>	Rocker Shaft	
Expansion Plug Kit		1991-00	<b>97-106</b>	Steel Kit. Brass Kit Avail. In Suffix B	

<b>LINE 66</b>	<b>236-237 C.I. (3.9L) 12V</b>			<b>1942-52 L6</b>	<b>BORE - 3.40"/87.33mm</b>
Valve	Exh	1948-52	<b>10-257</b>	1.501 Head Dia 2 Groove, w/.340 Stem From Eng. #175885	
	Int	1942-52	<b>10-298</b>	1.718 Head Dia. 2 Groove	
Valve Seat Insert	Int	1942-52	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.	
	Exh	1942-52	<b>22-1640-1</b>	1-3/8 I.D. 1.640 O.D. 1/4 Depth	
Guide	Exh	1942-52	<b>30-1337</b>	2.813 OAL 0.3445 I.D. 0.6575 O.D.	
	Int	1942-52	<b>30-1338</b>	2.813 OAL 0.3425 I.D. 0.6575 O.D.	
Keeper	Both	1942-52	<b>34-743</b>	2 Round Grooves. OEM # 395931	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 67</b>	<b>239 C.I. (3.9L) OHV Carb. 12V Vin M</b>		<b>1987-88 V6</b>	<b>BORE - 3.91"/99.3mm</b>
Valve	Exh	1987-88	<b>10-1419</b>	1.517 Head Dia. +15 O/S Stem Avail.
	Int	1987-88	<b>10-938</b>	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.
Valve Seat Insert	Exh	1987-88	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1987-88	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Exh	1987-88	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1987-88	<b>30-9610</b>	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
Spring	Both	1987-88	<b>32-672</b>	w/o Rotator 1.394/1.414 O.D. 2.000 Free Length
	Exh	1987-88	<b>32-1061</b>	1.810 Free Length. Use w/ Rotator
Keeper	Both	1987-88	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1987-88	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1987-87	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Exh	1987-88	<b>38-802-45</b>	Viton. Metal Clad. For 5/16 Stem
	Exh	1987-88	<b>38-803-45</b>	Viton. Metal Clad.
	Int	1987-88	<b>38-585-45</b>	Viton. Top Hat. Use w/ 0.374 Stem Dia.
Rocker Component	Both	1987-88	<b>40-2892</b>	Rocker Arm, LH. Stamped
	Both	1987-88	<b>40-2893</b>	Rocker Arm, RH. Stamped
Push Rod		1987-88	<b>74-6324</b>	7.500 Length
Expansion Plug Kit		1987-88	<b>97-106</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 68</b>	<b>238 C.I. (3.9L) OHV F.I. 12V Vin M, X</b>		<b>1988-03 V6</b>	<b>BORE - 3.91"/99.3mm</b>
Valve	Exh	1988-91	<b>10-1419</b>	1.517 Head Dia. 2 Groove +15 O/S Stem Avail.
	Exh	1992-03	<b>10-1715</b>	1.624 Head Dia. 1 Groove. +3 & +15 O/S Stem May Be Avail.
	Int	1992-03	<b>10-1714</b>	1.920 Head Dia. 1 Groove. +3 & +15 O/S Stem May Be Avail.
	Int	1988-91	<b>10-938</b>	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.
Valve Seat Insert	Exh	1988-91	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Valve w/ 1.517 Head Dia.
	Exh	1992-03	<b>20-1687-16</b>	1-7/16 I.D. 1-11/16 O.D. 3/16 Depth. w/ 1.624 Valve Head Dia.
	Int	1988-91	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.624 Head Dia.
	Int	1992-03	<b>20-2000-36</b>	1-3/4 I.D. 2.000 O.D. 3/16 Depth. w/ 1.920 Valve Head Dia.
Guide	Exh	1992-03	<b>30-8494</b>	2.436 OAL. Use w/ 0.3115 Stem Dia.
	Exh	1988-91	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1992-03	<b>30-7847</b>	2.250 OAL. Use w/ 0.3114 Stem Dia.
Spring	Int	1988-91	<b>30-9610</b>	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
	Both	1992-03	<b>32-1278</b>	1.967 Free Length. Conical Style
	Exh	1988-91	<b>32-1280</b>	Use w/ Rotators. 1.950 Free Length
Keeper	Int	1988-91	<b>32-1246</b>	2.160 Free Length
	Both	1992-03	<b>34-217</b>	0.311 Stem Dia. 1 Round Groove. Heat Treated
	Both	1988-91	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1988-03	<b>36-2269</b>	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install
Valve Stem Seal	Both	1988-91	<b>38-1068-70</b>	Teflon And Rubber. 3/8 Stem
	Both	1992-03	<b>38-802-45</b>	Viton. Metal Clad. 5/16 Stem
	Exh	1989-91	<b>38-803-45</b>	Viton. Metal Clad. 3/8 Stem
	Int	1989-91	<b>38-585-45</b>	Viton. Top Hat. 3/8 Stem
Retainer	Both	1988-98	<b>55-6360</b>	Chrome Moly. 1.144 O.D. 5/16 Stem
Push Rod		1992-03	<b>74-6462</b>	6.900 Length
Expansion Plug Kit		1988-03	<b>97-106</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 69</b>	<b>3952cc (4.0L) SOHC 24V Vin 6,X</b>		<b>2007-12</b>	<b>V6 BORE - 96mm/3.77"</b>
Valve	Exh	2007-11	10-1713	1.142 Head Dia. 0.272 Stem
	Int	2007-11	10-1901	1.437 Head Dia. 0.273 Stem
Guide	Exh	2007-11	30-8547	2.160 OAL. 0.4545 O.D. 0.276 I.D.
	Int	2007-11	30-8548	2.040 OAL. 0.4545 O.D. 0.275 I.D.
Keeper	Both	2007-11	34-06513	3 Round Grooves
Valve Stem Seal	Both	2007-11	38-20-45	Viton. Top Hat
<b>LINE 70</b>	<b>242 C.I. (4.0L) OHV AMC 12V Vin L,M,S,V</b>		<b>1987-06</b>	<b>L6 BORE - 3.875"/98.4mm</b>
Valve	Exh	1987-98	10-1556	1.500 Head Dia. 1 Groove +3, +15 O/S Stem Avail.
	Exh	1999-06	10-1917	1.910 Head Dia. 3 Groove. +3, 15 O/S Stem May Be Avail.
	Int	1987-98	10-1557	1.910 Head Dia. 1 Round Groove. +3, +15 O/S Stem Avail.
	Int	1999-06	10-1916	1.910 Head Dia. 3 Groove. +3, 15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1987-06	20-1562-36	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth.
	Int	1987-06	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Exh	1987-06	30-8494	2.436 OAL. w/ Seal Boss
	Exh	1987-06	30-9848	2.438 OAL. Conversion
	Int	1987-06	30-7847	2.250 OAL. w/ Seal Boss
Spring	Both	1987-95	32-1242	1.820 Free Length Cylindrical
	Both	1987-95	32-1278	1.967 Free Length, Conical.
	Both	1996-06	32-2225	1.890 Free Length.
Keeper	Both	1999-06	34-00515	3 Round Grooves
	Both	1987-98	34-217	0.313 Stem Dia. 1 Round Groove. Heat Treated
Lifter	Both	1987-06	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1987-97	38-535-45	Viton. Ring And Band. For 5/16 Stem.
	Exh	1998-06	38-802-45	Viton. Metal Clad. For 5/16 Stem
	Int	1998-06	38-940-45	Viton. 2-Ring.
Rocker Component	Both	1987-06	40-2740	Rocker Arm, Stamped.
Expansion Plug Kit		1987-97	97-126	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 71</b>	<b>250 C.I. (4.1L) AMC</b>		<b>1956-62</b>	<b>V8 BORE - 3.40"/88.9mm</b>
Valve	Exh	1959-62	10-549	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int	1959-62	10-550	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1956-62	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1956-62	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1959-62	30-1919	2.250 OAL. +15 O/S Avail.
Keeper	Both	1959-62	34-766	4 Groove. Heat Treated
Lifter	Both	1956-62	36-2084	Mechanical High Performance
Valve Stem Seal	Both	1956-62	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
Expansion Plug Kit		1956-62	97-59	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 72</b>	<b>237 (3.9L), 251 (4.1L) Vin 6 Chrysler</b>		<b>1942-68</b>	<b>L6 BORE - 3.437"/87.3mm</b>
Valve	Exh	1948-68	10-257	1.501 Head Dia.
	Int	1942-68	10-298	1.718 Head Dia.
Valve Seat Insert	Int	1942-68	20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
	Exh	1942-68	22-1640-1	1-3/8 I.D. 1.640 O.D. 1/4 Depth, +10 & +20 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 72</b>	<b>237 (3.9L), 251 (4.1L) Vin 6 Chrysler</b>			<b>1942-68 L6 BORE - 3.437"/87.3mm</b>
Guide	Exh	1942-68	30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Int	1942-68	30-1338	2.813 OAL
Keeper	Both	1942-68	34-743	2 Round Grooves. OEM # 395931
<b>LINE 73</b>	<b>258 C.I. (4.2L) OHV AMC Vin A,C,M,T</b>			<b>1971-90 L6 BORE - 3.70"/95.25mm</b>
Valve	Exh	1973-80	10-1325	1.406 Head Dia. 0.372T Stem. 4 Groove w/o Rotator. +15 O/S Stem Avail.
	Exh	1981-90	10-1441	1.406 Head Dia. 0.372T Stem. 1 Groove. +3, +15 O/S Stem May Be Avail.
	Exh	1971-72	10-549	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int	1973-80	10-1260	1.787 Head Dia. 4 Groove. +3, 15 O/S Stem May Be Avail.
	Int	1981-90	10-1442	1.787 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
	Int	1971-72	10-550	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1971-90	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1971-90	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1971-90	30-9108	2.375 OAL. Spiral 0.374 I.D. 0.502 O.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1976-90	32-1082	w/o Rotator. 2.035 Free Length
	Both	1971-75	32-863	2.260 Free Length
	Exh	1974-74	32-1040	1.910 Free Length. Use w/ Rotator
Keeper	Both	1981-90	34-613	1 Groove. Heat Treated. 3/8 Stem
	Both	1971-80	34-766	4 Groove. Heat Treated
	Exh	1973-74	34-555	1 Square Groove. Heat Treated
Lifter	Both	1971-90	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1973-90	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
Rocker Component	Both	1983-90	40-2740	Rocker Arm, Stamped
Push Rod	Both	1981-88	74-6353	9.70 Length. OEM # 3242395
Expansion Plug Kit		1971-90	97-1	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 74</b>	<b>265 C.I. (4.3L) 12V Chrysler</b>			<b>1951-60 L6 BORE - 3.437"/87.3mm</b>
Valve	Exh	1951-54	10-257	1.501 Head Dia.
	Int	1951-60	10-298	1.718 Head Dia.
Valve Seat Insert	Int	1951-60	20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
	Exh	1951-60	22-1640-1	1-3/8 I.D. 1.640 O.D. 1/4 Depth, +10 & +20 O/S Avail.
Guide	Exh	1951-60	30-1609	2.188 OAL
	Int	1951-60	30-1338	2.813 OAL
Keeper	Both	1951-60	34-743	2 Round Grooves. OEM # 395931
<b>LINE 75</b>	<b>270 C.I. (4.4L)</b>			<b>1955-56 V8 BORE -</b>
Guide	Both	1955-56	30-9112	2.250 OAL 0.3745 I.D. 0.5020 O.D.
Keeper	Exh	1955-56	34-766	4 Groove. Heat Treated
	Int	1955-56	34-746	2 Round Grooves. OEM # 381875.
Valve Stem Seal	Both	1955-56	38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1955-56	38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 76</b>	<b>273 C.I. (4.5L)</b>			<b>1964-69 V8 BORE - 3.625"/92.1mm</b>
Valve	Exh	1964-69	10-1329	1.500 Head Dia. 4 Groove. +5, 15, 30 O/S May Be Stem Avail.
	Int	1964-69	10-938	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 76</b>	<b>273 C.I. (4.5L)</b>		<b>1964-69 V8 BORE - 3.625"/92.1mm</b>	
Valve Seat Insert	Exh	1964-69	<b>20-1625-2</b>	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. +10 O/S Avail.
	Int	1964-69	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Exh	1964-69	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1964-67	<b>30-6113</b>	2.375 OAL 0.3745 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Int	1964-69	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1964-69	<b>32-672</b>	1.394/1.414 O.D. 2.000 Free Length
Keeper	Exh	1964-69	<b>34-766</b>	4 Groove. Heat Treated
	Int	1964-69	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1964-69	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
	Both	1964-67	<b>36-2084</b>	Mechanical High Performance
Valve Stem Seal	Both	1964-69	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Both	1964-69	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
Rocker Component	Both	1964-69	<b>40-2892</b>	Rocker Arm, LH. Stamped
	Both	1964-69	<b>40-2893</b>	Rocker Arm, RH. Stamped
		1964-67	<b>42-2661</b>	Rocker Shaft. 2 Required w/ Hyd. Lifter
Retainer	Both	1964-69	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Push Rod		1968-69	<b>74-6324</b>	7.500 Length
Expansion Plug Kit		1964-69	<b>97-11</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 77</b>	<b>277 C.I. (4.5L) OHV</b>		<b>1956-57 V8 BORE - 3.75"/95.25mm</b>	
Valve	Exh	1956-57	<b>10-518</b>	1.563 Head Dia. 4 Groove
	Int	1956-57	<b>10-514</b>	1.844 Head Dia. 2 Groove
Valve Seat Insert	Exh	1956-57	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1956-57	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Exh	1956-57	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1956-57	<b>30-9110</b>	2.625 OAL. Spiral I.D. 30-6110 Plain I.D. Also Avail.
Keeper	Exh	1956-57	<b>34-766</b>	4 Groove. Heat Treated
	Int	1956-57	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1956-57	<b>36-2084</b>	Mechanical High Performance
Valve Stem Seal	Int	1956-57	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.

<b>LINE 78</b>	<b>287 C.I. (4.7L) SOHC 16V Vin J, N,P</b>		<b>1999-13 V8 BORE - 3.66"/93mm</b>	
Valve	Exh	2008-13	<b>10-13252</b>	1.457 Head Dia. 3 Groove. 0.389 Tip To Groove
	Exh	1999-07	<b>10-1919</b>	1.457 Head Dia. 3 Groove. 0.420 Tip To Groove
	Int	2008-13	<b>10-13251</b>	1.915 Head Dia. 3 Groove. 0.293 Tip To Groove
	Int	1999-07	<b>10-1918</b>	1.915 Head Dia. 3 Groove. 0.371 Tip To Groove
Valve Seat Insert	Exh	1999-13	<b>21-1500-50</b>	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Exh	1999-13	<b>21-1562-66</b>	1.265T I.D. Alternate 1-9/16 O.D, Check Casting. 0.280 Depth.
	Int	1999-13	<b>21-2000-51</b>	1.690T I.D. 2.000 O.D. 0.270 Depth.
Guide	Both	1999-07	<b>30-3026</b>	1.702 OAL.
	Both	2008-13	<b>30-3149</b>	1.820 OAL.
Spring	Both	1999-07	<b>32-2482</b>	1.950 Free Length. Revised Conical Design, Not for use with High Output
	Both	2008-13	<b>32-5023</b>	1.915 Free Length. Conical. w/ Shroud and Stem Seal
Keeper	Both	1999-13	<b>34-06513</b>	3 Round Grooves
Lifter	Both	1999-13	<b>36-2271</b>	Hydraulic Lash Adjuster. Does Not Fit '08+ Dual Plug
Valve Stem Seal	Both	1999-07	<b>38-752-45</b>	Viton. Top Hat.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 78</b>	<b>287 C.I. (4.7L) SOHC 16V Vin J, N,P</b>		<b>1999-13 V8</b>	<b>BORE - 3.66"/93mm</b>
Expansion Plug Kit		1999-13	97-165	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 79</b>	<b>287 C.I. (4.7L) AMC</b>		<b>1963-66 V8</b>	<b>BORE - 3.75"/95.25mm</b>
Valve	Exh	1963-66	10-549	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int	1963-66	10-550	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1963-66	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1963-66	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1963-66	30-1919	2.250 OAL. +15 O/S Avail.
Spring	Both	1963-66	32-863	2.260 Free Length.
Keeper	Both	1963-66	34-766	4 Groove. Heat Treated
Lifter	Both	1963-66	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1963-66	38-1038-70	Teflon And Rubber. Machine Guide To 0.594 O.D.
	Both	1963-66	38-915-25	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
Retainer	Both	1963-66	55-6318	Chrome Moly. 1.340 O.D. 3/8 Stem
Expansion Plug Kit		1963-66	97-59	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 80</b>	<b>290 C.I. (4.8L) AMC Vin H,M,N</b>		<b>1966-69 V8</b>	<b>BORE - 3.75"/95.25mm</b>
Valve	Exh	1966-69	10-1441	1.406 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
	Int	1966-69	10-1442	1.787 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1966-69	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1966-69	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1966-69	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1966-69	32-991	2.068 Free Length
Keeper	Both	1966-69	34-613	1 Groove. Heat Treated
Lifter	Both	1966-69	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1966-69	38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1966-69	38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Retainer	Both	1966-69	55-6318	Chrome Moly. 1.340 O.D. 3/8 Stem
Expansion Plug Kit		1966-69	97-2	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 81</b>	<b>303 C.I. (5.0L)</b>		<b>1956-56 V8</b>	<b>BORE - 3.813"/96.8mm</b>
Valve	Exh	1956-56	10-518	1.563 Head Dia. 4 Groove
Guide	Exh	1956-56	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1956-56	30-9110	2.625 OAL. Spiral I.D. 30-6110 Plain I.D. Also Avail.
Keeper	Exh	1956-56	34-766	4 Groove. Heat Treated
<b>LINE 82</b>	<b>304 C.I. (5.0L) OHV Vin H AMC</b>		<b>1970-81 V8</b>	<b>BORE - 3.75"/95.3mm</b>
Valve	Exh	1973-80	10-1325	1.406 Head Dia. 4 Groove. +15 O/S Stem Avail.
	Exh	1981-81	10-1441	1.406 Head Dia. 1 Groove. Jeep Only. +3, +15 O/S Stem May Be Avail.
	Int	1973-80	10-1260	1.787 Head Dia. 4 Groove. +3, 15 O/S Stem May Be Avail.
	Int	1981-81	10-1442	1.787 Head Dia. 1 Groove. Jeep Only. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1970-81	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1970-81	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1970-81	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1978-81	32-1082	2.035 Free Length
	Both	1970-70	32-883	2.230 Free Length.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 82</b>	<b>304 C.I. (5.0L) OHV Vin H AMC</b>			<b>1970-81 V8 BORE - 3.75"/95.3mm</b>
Spring	Both	1971-71	<b>32-999</b>	2.200 Free Length
Keeper	Both	1973-80	<b>34-613</b>	1 Groove. Heat Treated
	Both	1981-81	<b>34-766</b>	4 Groove. Heat Treated
Lifter	Both	1970-81	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1970-81	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1970-81	<b>38-930-35</b>	Glass Filled Nylon. Umbrella.
Push Rod		1970-79	<b>74-6385</b>	5/16" Dia. x 7.894"
	Both	1970-81	<b>74-6034</b>	7.793 Length
Expansion Plug Kit		1970-81	<b>97-2</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 83</b>	<b>318 C.I. (5.2L) OHV Passenger Car</b>			<b>1957-89 V8 BORE - 3.91"/99.3mm</b>
Valve	Exh	1967-78	<b>10-1329</b>	1.500 Head Dia. 4 Groove. +5, 15, 30 O/S May Be Stem Avail.
	Exh	1979-89	<b>10-1399</b>	1.500 Head Dia. Exc 1981-89 H.D. Or Police 4BC.
	Exh	1981-89	<b>10-1401</b>	1.600 Head Dia. H.D. & Police 4BC. 4 Groove
	Exh	1957-67	<b>10-518</b>	1.563 Head Dia. 4 Groove
	Int	1981-89	<b>10-1180</b>	1.880 Head Dia. H.D. & Police 4BC, 2 Groove, +5 & +15 O/S Stem May Be Avail.
	Int	1981-89	<b>10-1273</b>	1.880 Head Dia. H.D. & Police 4BC, 4 Groove
	Int	1957-67	<b>10-514</b>	1.844 Head Dia. 2 Groove
	Int	1968-89	<b>10-938</b>	1.780 Head Dia. Exc. 1981-89 H.D. Or Police 4BC. 2 Groove +5, 15, 30 O/S Stem Avail.
Valve Seat Insert	Exh	1967-89	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.500 Valve Head Dia.
	Exh	1957-89	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.563 & 1.600 Valve Head Dia.
	Int	1968-89	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. w/ 1.780 Valve Head Dia.
	Int	1957-67	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth. w/ 1.840 Valve Head Dia.
	Int	1981-89	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. 4BC H.D., w/ 1.880 Valve Head Dia.
Guide	Exh	1957-89	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1967-89	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
	Int	1957-67	<b>30-9610</b>	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
Spring	Both	1960-83	<b>32-1070</b>	2.00 Free Length. Int. Only Stage 3 Engine 1960-73, 1967-83 w/ E48 & 4BC.
	Both	1989-89	<b>32-1246</b>	2.160 Free Length. w/ ELA 2BC
	Both	1957-89	<b>32-672</b>	Exc. H.D. Or Police w/ 4BC 2.000 Free Length
Keeper	Exh	1957-89	<b>34-766</b>	4 Groove, For 1981-89 Int To Be Used w/ 01273
	Int	1957-89	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1968-89	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
	Both	1957-66	<b>36-2084</b>	Mechanical High Performance
	Both	1985-89	<b>36-2269</b>	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install
Valve Stem Seal	Both	1957-89	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Exh	1957-89	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int	1957-89	<b>38-253-45</b>	Viton. Umbrella.
	Int	1957-89	<b>38-928-25</b>	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1959-88	<b>40-2892</b>	Rocker Arm, LH. Stamped. Use w/ Hydr. Lifter
	Both	1959-88	<b>40-2893</b>	Rocker Arm, RH. Stamped. Use w/ Hydr. Lifter
		1967-89	<b>42-2661</b>	Rocker Shaft. 2 Required w/ Hyd. Lifter
Retainer	Both	1957-89	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Push Rod		1968-88	<b>74-6324</b>	7.500 Length

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 83</b>	<b>318 C.I. (5.2L) OHV Passenger Car</b>	<b>1957-89</b>	<b>V8</b>	<b>BORE - 3.91"/99.3mm</b>
Expansion Plug Kit		1957-89	97-11	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 84</b>	<b>318 C.I. (5.2L) Truck Carb. &amp; F.I., Motor Home</b>	<b>1959-03</b>	<b>V8</b>	<b>BORE - 3.91"/99.3mm</b>
<b>Valve</b>	Exh	1968-80	<b>10-1312S</b>	Motor Home, HD. 1.517 Head Dia. 2 Groove.
	Exh	1969-79	<b>10-1329</b>	1.500 Head Dia. 4 Groove. +5, 15, 30 O/S May Be Stem Avail.
	Exh	1982-89	<b>10-1399</b>	1.500 Head Dia. w/o Rotator. 4 Groove.
	Exh	1982-85	<b>10-1417</b>	1.617 Head Dia. H.D. 4BC. 2 Groove. +15 O/S Stem Avail.
	Exh	1979-91	<b>10-1419</b>	1.517 Head Dia. Use w/ Rotator, 2 & 4BC. 2 Groove. +15 O/S Stem Avail.
	Exh	1992-03	<b>10-1715</b>	1.624 Head Dia. 1 Groove. +3 & +15 O/S Stem May Be Avail.
	Exh	1959-68	<b>10-518</b>	1.563 Head Dia. w/ Mechanical Lifters. 4 Groove
	Int	1982-83	<b>10-1180</b>	1.880 Head Dia. 4BC, 2 Groove, +5 & +15 O/S Stem May Be Avail.
	Int	1969-80	<b>10-1186</b>	Motor Home, HD. 1.811 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
	Int	1982-83	<b>10-1273</b>	1.880 Head Dia. 4BC. 4 Groove
	Int	1992-03	<b>10-1714</b>	1.920 Head Dia. 1 Groove. +3 & +15 O/S Stem May Be Avail.
	Int	1959-68	<b>10-514</b>	1.844 Head Dia. 2 Groove
	Int	1969-91	<b>10-938</b>	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.
<b>Valve Seat Insert</b>	Exh	1968-91	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.500 & 1.517 Valve Head Dia.
	Exh	1968-91	<b>20-1625-1N</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Non-Magnetic Nickel, LPG w/ 1.500 & 1.517 Valve Head Dia.
	Exh	1969-75	<b>20-1625-2N</b>	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. Non-Magnetic Nickel Matl.
	Exh	1992-03	<b>20-1687-16</b>	1-7/16 I.D. 1-11/16 O.D. 3/16 Depth. w/ 1.624 Valve Head Dia.
	Exh	1959-85	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.563, 1.600 & 1.617 Valve Head Dia.
	Exh	1959-85	<b>20-1687-2N</b>	Nickel Matl. For LPG, Motor Home. Same Dims. As 20-1687-2
	Int	1969-91	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. w/ 1.780 Valve Head Dia.
	Int	1959-80	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth. w/ 1.811, 1.844 Valve Head Dia.
	Int	1982-83	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.880 Valve Head Dia.
	Int	1992-03	<b>20-2000-36</b>	1-3/4 I.D. 2.000 O.D. 3/16 Depth. w/ 1.920 Valve Head Dia.
<b>Guide</b>	Exh	1992-03	<b>30-8494</b>	2.436 OAL. 0.3135 I.D. w/ 0.3115 Stem. w/ Seal Boss
	Exh	1959-97	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1992-03	<b>30-7847</b>	2.250 OAL. w/ 0.3115 Stem Dia. Seal Boss
	Int	1969-91	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
	Int	1959-91	<b>30-9610</b>	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
<b>Spring</b>	Both	1969-91	<b>32-1061</b>	w/ Rotocaps. 1.810 Free Length.
	Both	1960-83	<b>32-1070</b>	Int Only Stage 3 Engine 1960-73,1967-83 w/ E48 & 4BC 2.0 Free Length
	Both	1992-03	<b>32-1278</b>	Vin P, T, Y. 1.967 Free Length
	Both	1969-89	<b>32-672</b>	Exc. H.D. w/ 4BC. 2.000 Free Length. w/o Rotocaps
	Exh	1989-93	<b>32-1280</b>	1.950 Free Length
	Int	1989-93	<b>32-1246</b>	2.160 Free Length
<b>Keeper</b>	Both	1992-03	<b>34-217</b>	0.314 Stem Dia. 1 Round Groove. Heat Treated
	Both	1959-91	<b>34-746</b>	2 Round Grooves. OEM # 381875.
	Both	1959-89	<b>34-766</b>	4 Groove. Heat Treated
<b>Lifter</b>	Both	1968-89	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
	Both	1959-68	<b>36-2084</b>	Mechanical High Performance
	Both	1988-03	<b>36-2269</b>	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 84</b>	<b>318 C.I. (5.2L) Truck Carb. &amp; F.I., Motor Home</b>		<b>1959-03 V8</b>	<b>BORE - 3.91"/99.3mm</b>
Valve Stem Seal	Both	1959-97	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Exh	1959-97	<b>38-254-45</b>	Viton. Umbrella.
	Exh	1959-89	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Exh	1992-03	<b>38-802-45</b>	Viton. Metal Clad. For 5/16 Stem
	Int	1959-89	<b>38-253-45</b>	Viton. Umbrella.
	Int	1959-89	<b>38-928-25</b>	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
	Int	1992-03	<b>38-940-45</b>	Viton. 2-Ring.
Rocker Component	Both	1959-88	<b>40-2892</b>	Rocker Arm, LH. Stamped. Use w/ Hydr. Lifter
	Both	1959-88	<b>40-2893</b>	Rocker Arm, RH. Stamped. Use w/ Hydr. Lifter
		1967-87	<b>42-2661</b>	Rocker Shaft. 2 Required w/ Hyd. Lifter
Retainer	Both	1959-03	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Push Rod		1968-87	<b>74-6324</b>	7.500 Length. w/ Hyd. Lifters
		1992-03	<b>74-6462</b>	6.900 Length
Expansion Plug Kit		1959-03	<b>97-11</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 85</b>	<b>326 C.I. (5.3L)</b>		<b>1959-59 V8</b>	<b>BORE - 3.95"/100.33mm</b>
Valve	Exh	1959-59	<b>10-518</b>	1.563 Head Dia. 4 Groove
	Int	1959-59	<b>10-514</b>	1.844 Head Dia. 2 Groove
Valve Seat Insert	Exh	1959-59	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1959-59	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Exh	1959-59	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1959-59	<b>30-9610</b>	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
Keeper	Exh	1959-59	<b>34-766</b>	4 Groove. Heat Treated
	Int	1959-59	<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both	1959-59	<b>36-2084</b>	Mechanical High Performance
Valve Stem Seal	Both	1959-59	<b>38-921-25</b>	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
<b>LINE 86</b>	<b>327 C.I. (5.4L) AMC</b>		<b>1957-70 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1959-70	<b>10-549</b>	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int	1959-70	<b>10-550</b>	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1959-70	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1959-70	<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1957-58	<b>30-1819</b>	2.250 OAL
	Both	1959-70	<b>30-1919</b>	2.250 OAL. +15 O/S Avail.
Spring	Both	1959-70	<b>32-863</b>	2.260 Free Length.
Keeper	Both	1959-70	<b>34-766</b>	4 Groove. Heat Treated
Lifter	Both	1961-68	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1957-70	<b>38-231-25</b>	Polyacrylic. 2-Ring. 38-231-15 Nitrile Matl. Also Avail.
	Both	1957-70	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
Expansion Plug Kit		1957-70	<b>97-59</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 87</b>	<b>331, 354, 392 C.I.</b>		<b>1951-59 V8</b>	<b>BORE - 3.8125"/96.8mm</b>
Guide	Exh	1954-58	<b>30-1740</b>	2.813 OAL. 0.6895 O.D. 0.3745 I.D.
	Int	1954-59	<b>30-1803</b>	2.938 OAL. 0.6895 O.D. 0.3745 I.D.
Keeper	Both	1954-59	<b>34-746</b>	2 Round Beads
Valve Stem Seal	Both	1954-59	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 88</b>	<b>340 C.I. (5.6L) 16V Vin H,J,P</b>		<b>1968-73 V8</b>	<b>BORE - 4.04"/102.62mm</b>
Valve	Exh	1968-73	<b>10-1307</b>	1.600 Head Dia. 4 Groove. +3 & +5 & +15 O/S Stem May Be Avail.
	Int	1972-73	<b>10-1273</b>	1.880 Head Dia., 4 Groove
Valve Seat Insert	Exh	1968-73	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1968-73	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
	Int	1968-73	<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1968-73	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1968-71	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1968-73	<b>32-901-D</b>	1.940 Free Length
Keeper	Both	1968-73	<b>34-766</b>	4 Groove. Heat Treated
Lifter	Both	1968-73	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1968-73	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Exh	1968-73	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int	1968-73	<b>38-928-25</b>	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1968-73	<b>40-2892</b>	Rocker Arm, LH. Stamped
	Both	1968-73	<b>40-2893</b>	Rocker Arm, RH. Stamped
		1968-73	<b>42-2661</b>	Rocker Shaft. 2 Required w/ Hyd. Lifter
Retainer	Both	1968-73	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Push Rod		1968-73	<b>74-5157</b>	w/3-2BC (Cup & Ball)
		1968-73	<b>74-6324</b>	7.500 Length
Expansion Plug Kit		1968-73	<b>97-11</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 89</b>	<b>343 C.I. (5.6L) Vin S,T AMC</b>		<b>1967-69 V8</b>	<b>BORE - 4.08"/103.6mm</b>
Valve	Exh	1967-69	<b>10-1047</b>	1.625 Head Dia. 1 Groove
	Int	1967-69	<b>10-1048</b>	2.025 Head Dia. 1 Groove
Valve Seat Insert	Exh	1967-69	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1967-69	<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1967-69	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1967-69	<b>32-991</b>	2.068 Free Length
Keeper	Both	1967-69	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1967-69	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1967-69	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1967-69	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit		1967-69	<b>97-2</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 90</b>	<b>345 C.I. (5.7L) 16V Hemi Vin 2,8,D,H,T</b>		<b>2003-16 V8</b>	<b>BORE - 3.92"/99.5mm</b>
Valve	Exh	2009-15	<b>10-13195</b>	1.552 Head Dia. 0.3126 Stem
	Exh	2003-08	<b>10-2220</b>	1.551 Head Dia. 0.3115 Stem
	Int	2009-15	<b>10-13194</b>	2.050 Head Dia. 0.3127 Stem
	Int	2003-08	<b>10-2103</b>	2.000 Head Dia. 0.3128 Stem
Valve Seat Insert	Exh	2003-15	<b>21-1625-62</b>	1.320 I.D. 1-5/8 O.D. 0.300 Depth
	Int	2003-08	<b>21-2062-52</b>	1.750 I.D. 2-1/16 O.D. 0.280 Depth
	Int	2009-15	<b>21-2187-50</b>	1.820T I.D. 2-3/16 O.D. 0.3410 Depth.
Guide	Both	2009-15	<b>30-3156</b>	2.185 OAL.
	Exh	2003-08	<b>30-3032</b>	2.185 OAL. 0.3155 I.D.
	Int	2003-08	<b>30-3031</b>	2.185 OAL. 0.3145 I.D.
Spring	Both	2003-08	<b>32-2480</b>	2.148 Free Length. Conical. w/o Shroud
	Both	2009-15	<b>32-5024</b>	2.370 Free Length. Conical. w/ 1mm Seat

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 90</b>	<b>345 C.I. (5.7L) 16V Hemi Vin 2,8,D,H,T</b>			<b>2003-16 V8 BORE - 3.92"/99.5mm</b>
Keeper	Both	2003-15	<b>34-00515</b>	3 Round Grooves
Lifter	Both	2005-15	<b>36-7102K</b>	Hydraulic Assy. Non MDS. 4 Lifters, Yoke and Hex Flange Head Screw
	Both	2005-15	<b>36-7103K</b>	Hydraulic Roller Kit. w/ MDS Engine. Rear 4 Lifter Assy. w/ Cradle
	Both	2005-15	<b>36-7104K</b>	Hydraulic Roller Kit. w/ MDS Engine. Front 4 Lifter Assy. w/ Cradle
	Both	2005-15	<b>36-7105</b>	Hydraulic Roller. w/o MDS Engine. Single Lifter
	Both	2005-15	<b>36-7110</b>	Hydraulic Roller For MDS with Bleed Hole
	Both	2005-15	<b>36-7111</b>	Hydraulic Roller For MDS without Bleed Hole
Valve Stem Seal	Both	2003-08	<b>38-345-55</b>	Top Hat. Viton
	Both	2009-15	<b>38-812-45</b>	Viton. Metal Clad.
Push Rod	Exh	2003-08	<b>74-6653</b>	7.846 Length
	Int	2003-08	<b>74-6652</b>	6.609 Length
<b>LINE 91</b>	<b>350 C.I. (5.7L) GM</b>			<b>1968-71 V8 BORE - 3.80"/96.52mm</b>
Valve	Exh	1968-71	<b>10-1188</b>	1.500 Head Dia. +15 O/S Stem May Be Avail.
	Int	1968-71	<b>10-1082</b>	1.875 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1968-71	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1968-71	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.925 Valve Head Dia.
Guide	Exh	1968-71	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
	Int	1968-71	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1968-71	<b>32-1001</b>	2.130 Free Length
Keeper	Both	1968-71	<b>34-310</b>	0 Groove
Valve Stem Seal	Both	1968-71	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1970-71	<b>40-2813</b>	Rocker Arm, RH Stamped Steel.
	Both	1970-71	<b>40-2814</b>	Rocker Arm, LH Stamped Steel.
Expansion Plug Kit		1968-71	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 92</b>	<b>359 C.I. (5.9L) Turbo Diesel Cummins 12V Vin C,D,8</b>			<b>1989-98 L6 BORE - 4.02"/102mm</b>
Valve	Exh	1989-98	<b>10-1664</b>	1.654 Head Dia. w/ 45 Degree Seat
	Int	1989-98	<b>10-1665</b>	1.772 Head Dia. w/ 30 Degree Seat
Valve Seat Insert	Exh	1989-98	<b>20-1750-7</b>	1-3/8 I.D. 1-3/4 O.D. 7/32 Depth. Universal Insert For Heads w/o OEM Inserts
	Int	1989-98	<b>20-1875-8</b>	1-1/2T I.D. 1-7/8 O.D. 7/32 Depth. Universal Size For Heads w/o OEM Insert
	Exh	1989-98	<b>22-1722-1</b>	1.357T I.D. 1.722 O.D. 0.265 Depth OEM Replacement
	Int	1989-98	<b>22-1853-1</b>	1.498T I.D. 1.853 O.D. 0.273 Depth OEM Replacement
Guide	Both	1989-98	<b>30-8277</b>	2.500 OAL. 0.4395 O.D. OEM # 3906206
	Exh	1989-98	<b>30-8178</b>	2.052 OAL. 0.5527 O.D.
	Int	1989-98	<b>30-8177</b>	2.397 OAL. 0.5527 O.D.
Spring	Both	1989-96	<b>32-00276</b>	2.235 Free Length. OEM # 3900276
	Both	1997-98	<b>32-02061</b>	2.385 Free Length. OEM # 4882061
	Both	1989-98	<b>32-04049</b>	2.194 Free Length. OEM # 3925667. B Version 30Lbs.
Keeper	Both	1989-98	<b>34-00250</b>	1 Groove. OEM # 3900250
Lifter	Both	1989-98	<b>36-2302</b>	Mechanical. OEM # 3931623, 3925031
Rotator / Retainer	Both	1989-98	<b>37-5666</b>	Rotator. OEM # 3925666, 3957914
Valve Stem Seal	Both	1989-98	<b>38-59-45</b>	Viton. 2-Ring. For 5/16 Stem
	Both	1989-98	<b>38-6114-55</b>	Viton. Top Hat.
Performance Spring	Both	1989-98	<b>52-4049</b>	2.750 Free Length. 75 Lb. Drop-In Performance Spring

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 92</b>	<b>359 C.I. (5.9L) Turbo Diesel Cummins 12V Vin C,D,8</b>			<b>1989-98 L6 BORE - 4.02"/102mm</b>
Push Rod		1989-98	74-6448	10.910 Length. OEM # 3923262
Expansion Plug Kit		1989-98	97-163SS	Stainless Steel Kit
<b>LINE 93</b>	<b>359 C.I. (5.9L) ISB Turbo Diesel 24V Vin 6, 7, C</b>			<b>1998-09 L6 BORE - 102mm/4.02"</b>
Valve	Exh	2003-09	10-13006	1.299 Head Dia. Hi-Output. 45 Degree. OEM # 3979602
	Exh	2003-09	10-13161	1.299 Head Dia. Inconel. 45 Degree. OEM # 3968183, 4089672
	Exh	1998-04	10-2015	1.299 Head Dia. 45 Degree. OEM # 3940734
	Int	1998-09	10-2014	1.299 Head Dia. 30 Degree. OEM # 3940735
Valve Seat Insert	Exh	1998-09	22-1375-2N	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942299
	Int	1998-09	22-1375-1	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942298
Guide	Exh	1998-04	30-3022	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Exh	1998-09	30-3034	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.335
	Exh	1998-09	30-3081	2.020 OAL. 0.4395 Optional Straight O.D. (No Boss). No Special Tooling Req.
	Int	1998-04	30-3021	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Int	1998-09	30-3033	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal Boss length 0.335
	Int	1998-09	30-3080	1.937 OAL. 0.4395 Optional Straight O.D. (No Boss). No Special Tooling Req.
Spring	Both	1998-09	32-04053	1.890 Free Length. OEM # 4936080
Keeper	Both	1998-09	34-5020	1 Groove. OEM # 5011878AA
Lifter	Both	2003-09	36-7098	Mechanical. OEM # 3947759
Rotator / Retainer	Both	1998-09	37-3198	Retainer. OEM # 3943198
Valve Stem Seal	Both	2003-09	38-9191-45	Viton. Top Hat. OEM # 3955393/4
	Exh	1998-02	38-0438-45	Viton. Metal Clad
	Int	1998-02	38-0989-45	Viton. Metal Clad.
Performance Spring	Both	1998-09	52-4053	1.852 Free Length. Ovate Wire. 105 @ 1.390. 180 @ 1.060
<b>LINE 94</b>	<b>360 C.I. (5.9L) OHV Vin 7,N,P AMC</b>			<b>1970-91 V8 BORE - 4.08"/103.6mm</b>
Valve	Exh	1970-70	10-1047	1.625 Head Dia. 1 Groove
	Exh	1973-74	10-1257	1.680 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
	Exh	1975-91	10-1326	1.680 Head Dia. 4 Groove, +15 O/S Stem Avail.
	Int	1970-72	10-1048	2.025 Head Dia. 1 Groove
	Int	1973-91	10-1258	2.025 Head Dia. 0.372 Stem 4 Groove, +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1970-70	20-1687-2	1-7/16 I.D. 1-1 1/16 O.D. 7/32 Depth. w/ 1.625 Valve Head Dia.
	Exh	1970-91	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.680 Valve Head Dia.
	Int	1970-91	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Exh	1970-91	30-9113	2.375 OAL. 0.3745 Spiral I.D. 30-6113 Plain I.D. Also Avail. 0.502 O.D.
	Exh	1970-78	30-9298	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail. 0.502 O.D.
	Int	1970-91	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail. 0.502 O.D.
Spring	Both	1978-91	32-1082	Jeep 2.035 Free Length
	Both	1970-77	32-999	2.200 Free Length. Exc. '75-77 Police. '73-75 Int. Only
	Exh	1973-75	32-807	2.000 Free Length.
Keeper	Both	1970-72	34-613	Exc. Exh. 1971-72. 1 Groove. Heat Treated.
	Both	1973-91	34-766	Exc. Exh. 1973-74, 4 Groove 3/8 Stem
	Exh	1973-74	34-555	1 Square Groove. Heat Treated
Lifter	Both	1970-91	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1970-91	38-1054-70	Teflon and Rubber.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 94</b>	<b>360 C.I. (5.9L) OHV Vin 7,N,P</b>		<b>AMC</b>	<b>1970-91 V8 BORE - 4.08"/103.6mm</b>
Valve Stem Seal	Both	1970-91	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1970-91	<b>38-893-15</b>	Nitrile. Umbrella.
	Both	1970-91	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1970-91	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Exh	1970-91	<b>38-713-15</b>	Nitrile. Umbrella Style.
Rocker Component	Both	1970-88	<b>40-2892</b>	Rocker Arm, LH. Stamped
	Both	1970-88	<b>40-2893</b>	Rocker Arm, RH. Stamped
Retainer	Both	1970-91	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Push Rod		1970-91	<b>74-6034</b>	7.798 Length
		1970-78	<b>74-6385</b>	'70-71 Only (5/16" Dia. x 7.830" long)
Expansion Plug Kit		1970-91	<b>97-2</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 95</b>	<b>360 C.I. (5.9L) Truck Carb, F.I., Motor Home</b>		<b>1971-03 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1976-77	<b>10-1156</b>	Vin 3, Motor Home. 1.740 Head Dia. 4 Groove. +3, +15 O/S Stem Avail.
	Exh	1971-78	<b>10-1307</b>	1.600 Head Dia. 4 Groove. +3, +5, +15 O/S Stem May Be Avail.
	Exh	1971-79	<b>10-1309</b>	1.600 Head Dia. 2 Groove. Vin 3, Motor Home.
	Exh	1975-77	<b>10-1312S</b>	Vin 5, 6. 1.517 Head Dia. 2 Groove.
	Exh	1978-89	<b>10-1417</b>	1.617 Head Dia. 0.372 Stem. 2 Groove. +15 O/S Stem May Be Avail.
	Exh	1989-92	<b>10-1675</b>	1.617 Head Dia. 0.372 Stem. 2 Groove. +3 & +5 & +15 O/S Stem May Be Avail.
	Exh	1993-03	<b>10-1715</b>	1.624 Head Dia. 0.3115 Stem Dia. 1 Groove. +3 & +15 O/S Stem May Be Avail.
	Int	1971-77	<b>10-1180</b>	1.880 Head Dia. 2 Groove. +5, +15 O/S Stem Avail.
	Int	1975-79	<b>10-1186</b>	Vin 3, 5, 6, Motor Home. 1.811 Head Dia. 2 Groove. +15 O/S Stem Avail.
	Int	1976-92	<b>10-1273</b>	Vin 3, Motor Home. 1.880 Head Dia. 0.372 Stem. 4 Groove
	Int	1993-03	<b>10-1714</b>	1.920 Head Dia. 0.3115 Stem. 1 Groove. +3 & +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1975-77	<b>20-1625-2</b>	Vin 5, 6. 1-3/8 I.D. 1-5/8 O.D. 1/4 Depth.
	Exh	1993-03	<b>20-1687-16</b>	1-7/16 I.D. 1-11/16 O.D. 3/16 Depth. w/ 1.624 Valve Head Dia.
	Exh	1971-92	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.617 Valve Head Dia.
	Exh	1971-92	<b>20-1687-2N</b>	Nickel Matl. For LPG, Motor Home. Same Dims. As 20-1687-2
	Exh	1976-79	<b>20-1875-1</b>	Vin 3, Motor Home. 1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. w/ 1.740 Valve Head Dia.
	Int	1975-79	<b>20-1937-1</b>	Vin 3, 5, 6, Motor Home. 1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
	Int	1971-92	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.880 Valve Head Dia.
	Int	1993-03	<b>20-2000-36</b>	1-3/4 I.D. 2.000 O.D. 3/16 Depth. w/ 1.920 Valve Head Dia.
Guide	Both	1971-92	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail. 0.502 O.D.
	Exh	1992-03	<b>30-8494</b>	2.436 OAL. Use w/ 0.3115 Stem Dia. 0.502 O.D. w/ 0.531 Flange O.D.
	Int	1993-03	<b>30-7847</b>	2.250 OAL. Use w/ 0.3115 Stem Dia. 0.502 O.D. w/ 0.531 Flange O.D.
Spring	Both	1975-80	<b>32-1070</b>	75 Exc. Hi-Perf. Eng. 76 Hi-Perf. Eng. 77-80 Use w/ Calif. Emis. 2.00 Free Length
	Both	1993-03	<b>32-1278</b>	1.967 Free Length. Conical Style
	Both	1971-89	<b>32-672</b>	71-74, 76-80 All Exc. Hi-Perf. Eng. 2.000 Free Length. w/o Rotator
	Both	1975-81	<b>32-901-D</b>	75 Hi-Perf, 76 Hi-Perf. w/o Calif. Emis. 1.940 Free Length
	Exh	1970-83	<b>32-1061</b>	1.810 Free Length. Use w/ Rotator
	Exh	1971-89	<b>32-1174-D</b>	1.890 Free Length. Use w/ Rotator
	Exh	1989-92	<b>32-1280</b>	1.950 Free Length. Use w/ Rotators.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 95</b>	<b>360 C.I. (5.9L) Truck Carb, F.I., Motor Home</b>			<b>1971-03 V8 BORE - 4.00"/101.6mm</b>	
Spring	Int	1989-92	32-1246	2.160 Free Length	
Keeper	Both	1993-03	34-217	0.311 Stem Dia. 1 Round Groove. Heat Treated	
	Both	1971-92	34-746	2 Groove. Exh 89-92	
	Int	1978-92	34-766	4 Groove. Heat Treated	
Lifter	Both	1975-88	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron	
	Both	1989-03	36-2269	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install	
Rotator / Retainer	Both	1993-03	37-4002	Retainer. 5/16 Stem.	
Valve Stem Seal	Both	1993-03	38-802-45	Viton. Metal Clad. 0.312 Stem x 0.531	
	Both	1988-92	38-803-45	Viton. Metal Clad. 3/8 Stem x 0.640	
	Both	1993-03	38-804-45	Viton. Metal Clad. 5/16 Stem x 0.502	
	Both	1975-77	38-928-25	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.	
	Exh	1971-92	38-254-45	Viton. Umbrella.	
	Exh	1975-77	38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.	
	Int	1971-92	38-253-45	Viton. Umbrella.	
	Int	1993-03	38-940-45	Viton. 2-Ring.	
	Rocker Component	Both	1971-88	40-2892	Rocker Arm, LH. Stamped
		Both	1971-88	40-2893	Rocker Arm, RH. Stamped
		1971-88	42-2661	Rocker Shaft. 2 Required w/ Hyd. Lifter	
Retainer	Both	1971-89	55-6318	Chrome Moly. 1.340 O.D. 3/8 Stem	
	Both	1993-03	55-6360	Chrome Moly. 1.144 O.D. 5/16 Stem	
Push Rod		1971-88	74-6324	7.500 Length	
	Both	1992-02	74-6462	6.900 Length	
Expansion Plug Kit		1997-03	97-11	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 96</b>	<b>360 C.I. (5.9L) Passenger Car</b>			<b>1971-80 V8 BORE - 4.00"/101.6mm</b>	
Valve	Exh	1971-80	10-1307	1.600 Head Dia. Exc. 1979-80 4BC. 4 Groove. +3, 5, 15 O/S Stem May Be Avail.	
	Exh	1979-80	10-1401	1.600 Head Dia. 4BC. 4 Groove	
	Int	1971-73	10-1180	1.880 Head Dia. 2 Groove, +5 & +15 O/S Stem May Be Avail.	
	Int	1974-80	10-1273	1.880 Head Dia. 4 Groove	
Valve Seat Insert	Exh	1971-80	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth	
	Int	1971-80	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.	
Guide	Both	1971-80	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.	
Spring	Both	1975-80	32-1070	1975-76 Hi-Perf. Eng. 1977-80 w/ Calif. Emis. 2.0 Free Length	
	Both	1971-80	32-672	Exc. Hi-Perf. & 1975 Eng. 2.000 Free Length	
	Both	1974-76	32-901-D	1974-75 Hi-Perf. Eng. 1976 w/o Calif. Emis. 1.940 Free Length	
Keeper	Both	1971-80	34-766	4 Groove. Heat Treated	
	Int	1971-73	34-746	2 Round Grooves. OEM # 381875.	
Lifter	Both	1971-80	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron	
Valve Stem Seal	Both	1971-80	38-940-45	Viton. 2-Ring.	
	Exh	1971-80	38-254-45	Viton. Umbrella.	
	Exh	1971-80	38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.	
	Int	1971-80	38-253-45	Viton. Umbrella.	
	Int	1971-80	38-928-25	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.	
Rocker Component	Both	1971-80	40-2892	Rocker Arm, LH. Stamped	
	Both	1971-80	40-2893	Rocker Arm, RH. Stamped	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 96</b>	<b>360 C.I. (5.9L) Passenger Car</b>		<b>1971-80</b>	<b>V8 BORE - 4.00"/101.6mm</b>
Rocker Component		1971-80	<b>42-2661</b>	Rocker Shaft. 2 Required w/ Hyd. Lifter
Retainer	Both	1971-80	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Push Rod		1971-80	<b>74-6324</b>	7.500 Length
Expansion Plug Kit		1971-80	<b>97-11</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 97</b>	<b>361 C.I. (5.9L) Passenger Car</b>		<b>1958-66</b>	<b>V8 BORE - 4.125"/104.7mm</b>
Valve	Exh	1958-66	<b>10-520</b>	1.600 Head Dia. 4 Groove
	Int	1958-66	<b>10-548</b>	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1958-66	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1958-66	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Exh	1958-66	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1958-66	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1958-66	<b>32-869</b>	2.580 Free Length. OEM # 2658471
Keeper	Exh	1958-66	<b>34-766</b>	4 Groove. Heat Treated
	Int	1958-66	<b>34-746</b>	2 Groove.
Valve Stem Seal	Both	1958-66	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1958-66	<b>40-2850</b>	Rocker Arm. Stamped. LH
	Both	1958-66	<b>40-2851</b>	Rocker Arm. Stamped. RH
		1958-66	<b>42-2701</b>	Rocker Shaft. 2 Required
Retainer	Both	1958-66	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Expansion Plug Kit		1958-66	<b>97-12</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 98</b>	<b>361 C.I. (5.9L) Truck</b>		<b>1960-77</b>	<b>V8 BORE - 4.125"/104.8mm</b>
Valve	Exh	1960-77	<b>10-1017</b>	1.500 Head Dia. No Stellite. 2 Groove
	Exh	1960-77	<b>10-1017S</b>	1.500 Head Dia. Stellite Faced. 2 Groove.
	Exh	1960-77	<b>10-576</b>	1.500 Head Dia. 2 Groove
	Int	1960-77	<b>10-577</b>	1.880 Head Dia. 4 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Int	1960-77	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Exh	1960-77	<b>22-1624-1N</b>	1-21/64 I.D. 2 O.D. 3/8 Depth
Guide	Exh	1960-77	<b>30-1839</b>	3.090 OAL. OEM # 1851674. Plain I.D.
	Exh	1960-77	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1960-77	<b>30-1840</b>	3.280 OAL. OEM # 1851674. Plain I.D.
	Int	1960-77	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Exh	1960-77	<b>32-942</b>	2.130 OAL
	Int	1960-77	<b>32-869</b>	2.580 Free Length. OEM # 2658471
Keeper	Exh	1960-77	<b>34-746</b>	2 Groove. Heat Treated
	Int	1960-77	<b>34-766</b>	4 Groove. Heat Treated
Lifter	Both	1969-77	<b>36-976</b>	Hydraulic. From S/N 21680000. 1 Groove O.D.
Valve Stem Seal	Both	1960-77	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1960-77	<b>38-940-45</b>	Viton. 2-Ring.
Rocker Component	Both	1960-77	<b>40-2850</b>	Rocker Arm. Stamped. LH
	Both	1960-77	<b>40-2851</b>	Rocker Arm. Stamped. RH
		1960-77	<b>42-2701</b>	Rocker Shaft. 2 Required
Retainer	Both	1960-77	<b>55-6318</b>	Chrome Moly. 1.340 O.D. 3/8 Stem
Expansion Plug Kit		1960-77	<b>97-12</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 99</b>	<b>6059cc (6.1L) OHV 16V Vin 3,W (Hemi SRT8)</b>			<b>2005-10 V8 BORE - 103mm/4.06"</b>
Valve	Exh	2005-10	10-13207	1.595 Head Dia. 0.313 Stem
	Int	2005-10	10-13206	2.079 Head Dia. 0.313 Stem
Keeper	Both	2005-10	34-00515	3 Round Grooves
Lifter	Both	2005-10	36-7102K	3 Round Grooves
Valve Stem Seal	Both	2005-10	38-345-55	Top Hat. Viton
<b>LINE 100</b>	<b>6.2L OHV 16V Vin 9 S/C</b>			<b>2015-16 V8 BORE - 103.9mm/4.09"</b>
Keeper	Both	2015-15	34-00515	3 Round Grooves
Valve Stem Seal	Both	2015-15	38-812-45	Viton. Metal Clad.
<b>LINE 101</b>	<b>383 C.I. (6.3L) Vin 8, G, H, J, L, N</b>			<b>1959-71 V8 BORE - 4.25"/107.95mm</b>
Valve	Exh	1968-71	10-1156	1.740 Head Dia. 4 Groove, +15 O/S Stem Avail. +3, +15 O/S Stem May Be Avail.
	Exh	1959-67	10-520	1.600 Head Dia. 4 Groove
	Int	1959-71	10-548	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1959-67	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.600 Valve Head Dia. Al
	Exh	1968-71	20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. w/ 1.740 Valve Head Dia.
	Int	1959-71	20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both	1959-71	30-6113	2.375 OAL 0.3745 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1959-71	30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1959-71	32-869	w/ 2BC 2.580 Free Length
	Both	1968-71	32-891-D	w/ 4BC 2.230 Free Length
Keeper	Exh	1959-71	34-766	4 Groove. Heat Treated
	Int	1968-71	34-746	2 Groove. Heat Treated
Lifter	Both	1968-71	36-976	Hydraulic
Valve Stem Seal	Both	1959-71	38-1036-70	Teflon And Rubber.
	Both	1959-71	38-737-15	Nitrile. Umbrella.
	Both	1959-71	38-940-45	Viton. 2-Ring.
	Exh	1959-71	38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int	1959-71	38-928-25	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1959-71	40-2850	Rocker Arm. Stamped. LH
	Both	1959-71	40-2851	Rocker Arm. Stamped. RH
		1959-71	42-2701	Rocker Shaft. 2 Required
Push Rod		1968-71	74-6321	8.575 Length
Expansion Plug Kit		1959-71	97-12	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 102</b>	<b>390 C.I. (6.4L) Vin X AMC</b>			<b>1968-70 V8 BORE - 4.165"/105.8mm</b>
Valve	Exh	1968-70	10-1047	1.625 Head Dia. 1 Groove, To Early 1970
	Int	1968-70	10-1048	2.025 Head Dia. 1 Groove
Valve Seat Insert	Exh	1970-70	20-1687-2	1-7/16 I.D. 1-1 1/16 O.D. 7/32 Depth. w/ 1.625 Valve Head Dia.
	Exh	1970-70	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.680 Valve Head Dia.
	Int	1968-70	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Both	1968-70	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1968-70	32-991	2.068 Free Length
Keeper	Both	1968-70	34-613	1 Groove. Heat Treated
Lifter	Both	1968-70	36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1968-70	38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 102</b>	<b>390 C.I. (6.4L) Vin X AMC</b>			<b>1968-70 V8 BORE - 4.165"/105.8mm</b>
Valve Stem Seal	Both	1968-70	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Push Rod		1970-70	<b>74-6034</b>	7.798 Length
Expansion Plug Kit		1968-70	<b>97-2</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 103</b>	<b>6424cc (6.4L) OHV 16V Vin J</b>			<b>2011-16 V8 BORE - 103.9mm/4.09"</b>
Keeper	Both	2011-15	<b>34-00515</b>	3 Round Grooves
Valve Stem Seal	Both	2011-15	<b>38-812-45</b>	Viton. Metal Clad.
<b>LINE 104</b>	<b>400 C.I. (6.6L) OHV Vin J, M, N, P</b>			<b>1972-78 V8 BORE - 4.34"/110.3mm</b>
Valve	Exh	1972-78	<b>10-1156</b>	1.740 Head Dia. 4 Groove, +3, +15 O/S Stem May Be Avail.
	Int	1972-78	<b>10-548</b>	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1972-78	<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Exh	1972-78	<b>20-1875-1N</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. Non-Magnetic Nickel Matl.
	Int	1972-78	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both	1972-78	<b>30-6113</b>	2.375 OAL. 0.3745 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1972-78	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1972-78	<b>32-869</b>	Exc. Hi-Perf. 2.580 Free Length
	Both	1972-78	<b>32-891-D</b>	Hi-Perf. Eng. 2.230 Free Length
Keeper	Exh	1972-78	<b>34-766</b>	4 Groove. Heat Treated
	Int	1972-78	<b>34-746</b>	2 Groove. Heat Treated
Lifter	Both	1972-78	<b>36-976</b>	Hydraulic
Valve Stem Seal	Both	1972-78	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1972-78	<b>38-940-45</b>	Viton. 2-Ring.
	Exh	1972-78	<b>38-254-45</b>	Viton. Umbrella.
	Exh	1972-78	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int	1972-78	<b>38-253-45</b>	Viton. Umbrella.
	Int	1972-78	<b>38-928-25</b>	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1972-78	<b>40-2850</b>	Rocker Arm. Stamped. LH
	Both	1972-78	<b>40-2851</b>	Rocker Arm. Stamped. RH
		1972-78	<b>42-2701</b>	Rocker Shaft. 2 Required
Push Rod		1972-78	<b>74-6321</b>	8.575 Length
Expansion Plug Kit		1972-78	<b>97-12</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 105</b>	<b>401 C.I. (6.6L) OHV Vin Z AMC</b>			<b>1971-78 V8 BORE - 4.165"/106mm</b>
Valve	Exh	1973-74	<b>10-1257</b>	1.680 Head Dia. Passenger Car & 1974 Jeep, Use w/ Rotator. 1 Groove. 3/8 Stem Dia. +15 O/S Stem May Be Avail.
	Exh	1974-78	<b>10-1326</b>	1.680 Head Dia. Exc. 1974 Jeep. Use w/ Rotator, 4 Groove. +15 O/S Stem Dia.
	Int	1971-72	<b>10-1048</b>	2.025 Head Dia. 1 Groove
	Int	1973-78	<b>10-1258</b>	2.025 Head Dia. 4 Groove, +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1971-78	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1971-78	<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1971-78	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Exh	1971-78	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
	Exh	1971-76	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
Spring	Both	1971-78	<b>32-999</b>	Exc. 1971-72 Exh. 2.200 Free Length
	Exh	1971-72	<b>32-1040</b>	1.910 Free Length
Keeper	Both	1971-72	<b>34-613</b>	1 Groove. Heat Treated



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 105</b>	<b>401 C.I. (6.6L) OHV Vin Z AMC</b>		<b>1971-78 V8</b>	<b>BORE - 4.165"/106mm</b>
Keeper	Exh	1973-78	<b>34-555</b>	1 Square Groove. Heat Treated.
	Int	1973-78	<b>34-766</b>	4 Groove. Heat Treated
Lifter	Both	1971-78	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1971-78	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1971-78	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1971-78	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Push Rod		1971-78	<b>74-6034</b>	7.798 Length
		1971-78	<b>74-6385</b>	'71 (5/16" x 7.830")
Expansion Plug Kit		1971-78	<b>97-2</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 106</b>	<b>6690 (6.7L) OHV Turbo Diesel (Cummins) 24V ISB</b>		<b>2007-15 L6</b>	<b>BORE - 107mm/4.21"</b>
Valve	Exh	2007-15	<b>10-13006</b>	1.299 Head Dia. 45 Degree. OEM # 3979602
	Exh	2007-15	<b>10-13161</b>	1.299 Head Dia. Inconel. 45 Degree. OEM # 3968183, 4089672
	Int	2007-15	<b>10-2014</b>	1.299 Head Dia. 30 Degree. OEM # 3940735
Valve Seat Insert	Exh	2007-15	<b>22-1375-2N</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942299
	Int	2007-15	<b>22-1375-1</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942298
Guide	Exh	2007-15	<b>30-3022</b>	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Exh	2007-15	<b>30-3034</b>	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.335
	Exh	2007-15	<b>30-3081</b>	2.020 OAL. 0.4395 Optional Straight O.D. (No Flange). No Special Tooling Req.
	Int	2007-15	<b>30-3021</b>	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Int	2007-15	<b>30-3033</b>	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal Boss length 0.335
	Int	2007-15	<b>30-3080</b>	1.937 OAL. 0.4395 Optional Straight O.D. (No Flange). No Special Tooling Req.
Spring	Both	2007-15	<b>32-04053</b>	1.890 Free Length. OEM # 4936080
Keeper	Both	2007-15	<b>34-5020</b>	1 Groove. OEM # 5011878AA
Lifter	Both	2007-15	<b>36-7098</b>	Mechanical. OEM # 3947759
Valve Stem Seal	Both	2007-15	<b>38-9191-45</b>	Viton. Top Hat. OEM # 3955393/4
Performance Spring	Both	2007-15	<b>52-4053</b>	1.852 Free Length. Ovate Wire. 105 @ 1.390. 180 @ 1.060
<b>LINE 107</b>	<b>413 C.I. (6.8L) 16V</b>		<b>1959-79 V8</b>	<b>BORE - 4.188"/106mm</b>
Valve	Exh	1959-79	<b>10-1017</b>	1.500 Head Dia. No Stellite. 2 Groove
	Exh	1959-79	<b>10-1017S</b>	1.500 Head Dia. Stellite Faced. 2 Groove. 10-1017 w/o Stellite Also Avail.
	Exh	1959-65	<b>10-520</b>	1.600 Head Dia. 4 Groove
	Exh	1959-79	<b>10-576</b>	1.500 Head Dia. 2 Groove
	Int	1959-65	<b>10-548</b>	2.080 Head Dia. 2 Groove
	Int	1959-79	<b>10-577</b>	1.880 Head Dia. 4 Groove. +15 O/S Stem Avail.
	Valve Seat Insert	Exh	1959-65	<b>20-1750-2</b>
Int		1959-79	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Int		1959-65	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Exh		1959-79	<b>22-1624-1N</b>	1-21/64 I.D. 1.6245 O D. 3/8 Depth
Guide	Both	1959-65	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Exh	1959-79	<b>30-1839</b>	3.090 OAL. OEM # 1851674. Plain I.D.
	Int	1959-79	<b>30-1840</b>	3.280 OAL. OEM # 1851674. Plain I.D.
Spring	Both	1959-79	<b>32-869</b>	Both Car Exc. 1966-78 Hi-Perf, Int. Truck. 2.580 Free Length
	Exh	1959-77	<b>32-942</b>	Truck. 2.130 OAL

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 107</b>	<b>413 C.I. (6.8L) 16V</b>		<b>1959-79 V8</b>	<b>BORE - 4.188"/106mm</b>
Keeper	Exh	1959-79	<b>34-746</b>	2 Groove. Heat Treated
	Int	1959-79	<b>34-766</b>	4 Groove. Heat Treated
Valve Stem Seal	Both	1959-79	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1959-79	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1959-79	<b>38-940-45</b>	Viton. 2-Ring.
	Exh	1959-65	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int	1959-65	<b>38-928-25</b>	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.
	Rocker Component	Both	1959-79	<b>40-2850</b>
Both		1959-79	<b>40-2851</b>	Rocker Arm. Stamped. RH
		1959-65	<b>42-2701</b>	Rocker Shaft. 2 Required
Retainer	Both	1959-79	<b>55-6305</b>	Chrome Moly. 1.490 O.D. 3/8 Stem
Expansion Plug Kit		1959-78	<b>97-12</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 108</b>	<b>426 C.I. Hemi And Wedge Vin J, R</b>		<b>1963-71 V8</b>	<b>BORE - 4.25"/108mm</b>
Valve	Exh	1963-65	<b>10-520</b>	Wedge. 1.600 Head Dia. 4 Groove
	Int	1963-65	<b>10-548</b>	Wedge. 2.080 Head Dia. 2 Groove.
Guide	Exh	1963-71	<b>30-6897H</b>	2.875 OAL. 0.4390 O.D. Heat Treated
	Int	1963-71	<b>30-6896H</b>	2.875 OAL. 0.4390 O.D. Heat Treated
Spring	Both	1963-71	<b>32-891-D</b>	2.230 Free Length
Keeper	Exh	1963-65	<b>34-766</b>	4 Groove. Heat Treated. Wedge
	Int	1963-65	<b>34-746</b>	2 Round Grooves. Wedge
Lifter	Both	1963-71	<b>36-2084</b>	Mechanical High Performance
Valve Stem Seal	Both	1963-71	<b>38-1067-75</b>	All Teflon. 11/32 x 0.530
Rocker Component	Both	1963-71	<b>40-2850</b>	Rocker Arm. LH Stamped. Wedge
	Both	1963-71	<b>40-2851</b>	Rocker Arm. RH Stamped. Wedge
Expansion Plug Kit		1963-71	<b>97-12</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 109</b>	<b>440 C.I. (7.2L) OHV Vin A,D,K,L,M,T,U,V</b>		<b>1966-80 V8</b>	<b>BORE - 4.32"/109.7mm</b>
Valve	Exh	1966-80	<b>10-1156</b>	1.740 Head Dia. 4 Groove, +3, +15 O/S Stem May Be Avail.
	Exh	1972-80	<b>10-1281</b>	1.740 Head Dia. Premium Eng. & Motor Home. 2 Groove
	Exh	1966-67	<b>10-520</b>	1.600 Head Dia. 4 Groove
	Int	1966-80	<b>10-548</b>	2.080 Head Dia. Exc. 1970-72 w/ 3 Or 2BC. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1966-67	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Exh	1972-80	<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Exh	1966-78	<b>20-1875-6</b>	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.
	Int	1966-80	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both	1966-80	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
	Exh	1966-67	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1966-80	<b>32-869</b>	Exc. Hi-Perf. 2.580 Free Length
	Both	1966-80	<b>32-891-D</b>	Hi-Perf. 2.230 Free Length
	Exh	1966-79	<b>32-1088-D</b>	2.440 Free Length. w/ Damper
	Exh	1973-73	<b>32-942</b>	Truck. 2.130 OAL
Keeper	Exh	1966-80	<b>34-766</b>	4 Groove. Heat Treated
	Int	1966-80	<b>34-746</b>	2 Groove. Heat Treated
Lifter	Both	1966-80	<b>36-976</b>	Hydraulic
Valve Stem Seal	Both	1966-80	<b>38-1036-70</b>	Teflon And Rubber.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 109</b>	<b>440 C.I. (7.2L) OHV Vin A,D,K,L,M,T,U,V</b>		<b>1966-80</b>	<b>V8</b>	<b>BORE - 4.32"/109.7mm</b>
Valve Stem Seal	Both	1966-80	<b>38-253-45</b>	Viton. Umbrella.	
	Both	1966-78	<b>38-254-45</b>	Viton. Umbrella.	
	Exh	1966-78	<b>38-780-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.	
	Exh	1966-80	<b>38-940-45</b>	Viton. 2-Ring.	
	Int	1966-80	<b>38-928-25</b>	Polyacrylic. Umbrella. 38-928-15 Nitrile Matl. Also Avail.	
Rocker Component	Both	1966-79	<b>40-2850</b>	Rocker Arm. Stamped. LH	
	Both	1966-79	<b>40-2851</b>	Rocker Arm. Stamped. RH	
		1966-79	<b>42-2701</b>	Rocker Shaft. 2 Required	
Retainer	Both	1966-78	<b>55-6305</b>	Chrome Moly. 1.490 O.D. 3/8 Stem	
Push Rod		1973-73	<b>74-6321</b>	8.575 Length. Trucks Exc. Motor Homes	
		1968-79	<b>74-6323</b>	9.315 Length. '68-78 Pass. '74-79 Trucks. '73-77 Motor Homes	
Expansion Plug Kit		1966-80	<b>97-12</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 110</b>	<b>478 C.I. (7.8L) 16V</b>		<b>1969-77</b>	<b>V8</b>	<b>BORE -</b>
Guide	Exh	1969-77	<b>30-8224</b>	3.250 OAL 0.4385 I.D. 0.6920 O.D.	
	Int	1969-77	<b>30-1817</b>	3.063 OAL 0.4385 I.D. 0.6265 O.D.	
<b>LINE 111</b>	<b>488 C.I. (8.0L) OHV 20V Car Vin E</b>		<b>1992-02</b>	<b>V10</b>	<b>BORE - 4.000"/101.6mm</b>
Valve Seat Insert	Exh	1992-02	<b>20-1625-10</b>	1-5/16 I.D. 1-5/8 O.D. 5/16 Depth	
	Int	1992-02	<b>20-2062-23</b>	1-11/16 I.D. 2-1/16 O.D. 3/8 Depth	
Keeper	Both	1992-04	<b>34-217</b>	1 Round Groove. Heat Treated	
Lifter	both	1992-00	<b>36-2269</b>	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install	
Valve Stem Seal	Both	1992-02	<b>38-802-45</b>	Viton. Metal Clad. For 5/16 Stem	
	Int	1992-99	<b>38-940-45</b>	Viton. 2-Ring. Use w/ 0.311 Stem Dia.	
<b>LINE 112</b>	<b>488 C.I. (8.0L) OHV 20V Truck Vin W</b>		<b>1994-03</b>	<b>V10</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1994-03	<b>10-1782</b>	1.624 Head Dia.	
	Int	1994-03	<b>10-1781</b>	1.920 Head Dia.	
Valve Seat Insert	Exh	1994-03	<b>20-1687-5N</b>	1-3/8 I.D. 1-11/16 O.D. 7/32 Depth. Non-Magnetic Nickel	
	Int	1994-03	<b>20-2062-18</b>	1-9/16 I.D. 2-1/16 O.D. 7/32 Depth	
Guide	Exh	1994-03	<b>30-8659</b>	3.081 OAL	
	Int	1994-03	<b>30-8658</b>	2.860 OAL	
Spring	Both	1994-03	<b>32-1278</b>	1.967 Free Length, Conical Style	
Keeper	Both	1994-03	<b>34-217</b>	0.311 Stem Dia. 1 Round Groove. Heat Treated	
Lifter	Both	1994-03	<b>36-2269</b>	Hydraulic Roller w/ Metering Socket. Rotate Oil Hole Up To Install	
Valve Stem Seal	Exh	1994-03	<b>38-802-45</b>	Viton. Metal Clad. For 5/16 Stem	
	Int	1994-03	<b>38-940-45</b>	Viton. 2-Ring	
Retainer	Both	1994-03	<b>55-6360</b>	Chrome Moly. 1.144 O.D. 5/16 Stem	
<b>LINE 113</b>	<b>8277cc (8.3L) OHV 20V Car, Truck Vin H</b>		<b>2003-07</b>	<b>V10</b>	<b>BORE - 102.4mm/4.03"</b>
Keeper	Both	2003-07	<b>34-217</b>	0.313 Stem Dia. 1 Round Groove. Heat Treated	
Valve Stem Seal	Both	2003-07	<b>38-802-45</b>	Viton. Metal Clad. For 5/16 Stem	
<b>LINE 114</b>	<b>8437cc (8.4L) OHV 20V</b>		<b>2008-16</b>	<b>V10</b>	<b>BORE - 103mm/4.05"</b>
Keeper	Both	2008-10	<b>34-00515</b>	3 Round Grooves	

# DAEWOO

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ENGINE		YEAR	CYL.	LINE NO.
796cc (0.8L), 995cc (1.0L) M100/150, S-Tec		1996-07	L4	1
1588cc (1.6L) DOHC 16V Vin N, Y, 6		1999-02	L4	2
1.6L 16V C16LZ C16NZ E16SE (Non-USA)		1996-09	L4	3
1998cc (2.0L) DOHC 16V X20SE (Isuzu) Vin Z		1999-02	L4	4
2200cc (2.2L) DOHC D-Tec X22SE 16V Vin 2		1999-02	L4	5

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>796cc (0.8L), 995cc (1.0L) M100/150, S-Tec</b>		<b>1996-07</b>	<b>L4 BORE - 68.5mm/2.697"</b>
Valve	Exh	1996-04	10-03034	1.252 Head Dia. Matiz
	Int	1996-04	10-03033	1.401 Head Dia. Matiz
Guide	Both	1996-04	30-3256	1.766 OAL.
Valve Stem Seal	Both	1996-07	38-701-45	Viton. Metal Clad.
<b>LINE 2</b>	<b>1588cc (1.6L) DOHC 16V Vin N, Y, 6</b>		<b>1999-02</b>	<b>L4 BORE - 79mm/3.11"</b>
Valve	Exh	1999-02	10-2250S	1.021 Head Dia.
	Int	1999-02	10-2249	1.193 Head Dia.
Guide	Both	1999-02	30-3046	1.575 OAL 0.237 I.D.
Spring	Both	1999-02	32-04055	1.610 Free Length.
Keeper	Both	1999-02	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	1999-02	36-7021	Hydraulic
Valve Stem Seal	Both	1999-02	38-6100-55	Viton. Top Hat
<b>LINE 3</b>	<b>1.6L 16V C16LZ C16NZ E16SE (Non-USA)</b>		<b>1996-09</b>	<b>L4 BORE - 79mm/3.11"</b>
Valve	Exh		10-09830	1.220 Head Dia. Nexia, Racer, Cielo
	Int		10-09815	1.496 Head Dia. Nexia, Racer, Cielo
Lifter	Both		36-2056	Hydraulic Lash Adjuster
<b>LINE 4</b>	<b>1998cc (2.0L) DOHC 16V X20SE (Isuzu) Vin Z</b>		<b>1999-02</b>	<b>L4 BORE - 3.386"/86.0mm</b>
Valve	Exh	1999-02	10-2040S	1.142 Head Dia. Bi-Metallic, Stellite
	Int	1999-02	10-10784	1.260 Head Dia.
Guide	Exh	1999-02	30-3011	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	1999-02	30-3010	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	1992-02	32-2488	1.673 Free Length
Keeper	Both	1999-02	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	1999-02	36-7021	Hydraulic
Valve Stem Seal	Both	1999-02	38-1329-45	Viton. Metal Clad.
<b>LINE 5</b>	<b>2200cc (2.2L) DOHC D-Tec X22SE 16V Vin 2</b>		<b>1999-02</b>	<b>L4 BORE - 3.40"/ 86mm</b>
Valve	Exh	1999-02	10-2040S	1.142 Head Dia. Bi-Metallic, Stellite
	Int	1999-02	10-10784	1.260 Head Dia.
Guide	Exh	1999-02	30-3011	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	1999-02	30-3010	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	1999-02	32-2488	1.673 Free Length
Keeper	Both	1999-02	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	1999-02	36-7021	Hydraulic
Valve Stem Seal	Both	1999-02	38-1329-45	Viton. Metal Clad.

ENGINE	YEAR	CYL.	LINE NO.
1116cc (1.1L) 128A	1971-73	L4	1
1290cc (1.3L) SOHC 128AS	1972-79	L4	2
1368cc (1.4L) Multiair	2011-16	L4	3
1438cc (1.4L) 124AC	1969-70	L4	4
1498cc (1.5L) SOHC 138A2	1979-83	L4	5
1592cc (1.6L) DOHC 132AC	1973-74	L4	6
1596cc (1.6L) 16V [Non-USA]	1997-05	L4	7
1608cc (1.6L) DOHC 125BC	1971-73	L4	8
1756cc (1.8L) DOHC 132AI	1974-78	L4	9
1995cc (2.0L) DOHC 132C2	1979-85	L4	10

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1116cc (1.1L) 128A</b>		<b>1971-73</b>	<b>L4 BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1971-73	21-1312-54	1.070T I.D. 1-5/16 O.D. 0.330 Depth
	Int	1971-73	21-1500-65	1.140T I.D. 1-1/2 O.D. 0.325 Depth
<b>LINE 2</b>	<b>1290cc (1.3L) SOHC 128AS</b>		<b>1972-79</b>	<b>L4 BORE - 86mm/3.39"</b>
Valve Seat Insert	Exh	1972-79	21-1312-54	1.070T I.D. 1-5/16 O.D. 0.330 Depth
	Int	1972-79	21-1500-65	1.140T I.D. 1-1/2 O.D. 0.325 Depth
Expansion Plug Kit		1972-79	97-36	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>1368cc (1.4L) Multiair</b>		<b>2011-16</b>	<b>L4 BORE - 72mm / 2.84"</b>
Valve	Exh	2011-15	10-30109	OEM # 04892677AB
	Int	2011-15	10-30108	OEM # 04892676AB
Guide	Both	2011-15	30-3291	
Keeper	Both	2011-15	34-5021	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	2011-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 4</b>	<b>1438cc (1.4L) 124AC</b>		<b>1969-70</b>	<b>L4 BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1969-70	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.
	Int	1969-70	21-1750-53	1.390T I.D. 1-3/4 O.D. 0.250 Depth
<b>LINE 5</b>	<b>1498cc (1.5L) SOHC 138A2</b>		<b>1979-83</b>	<b>L4 BORE - 86.4mm/3.40"</b>
Valve Seat Insert	Exh	1979-83	21-1312-54	1.070T I.D. 1-5/16 O.D. 0.330 Depth
	Int	1979-83	21-1500-65	1.140T I.D. 1-1/2 O.D. 0.325 Depth
Expansion Plug Kit		1979-83	97-36	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 6</b>	<b>1592cc (1.6L) DOHC 132AC</b>		<b>1973-74</b>	<b>L4 BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1973-74	21-1500-56	1.275T I.D. 1-1/2 O.D. 0.250 Depth
	Int	1973-74	21-1750-53	1.390T I.D. 1-3/4 O.D. 0.250 Depth
<b>LINE 7</b>	<b>1596cc (1.6L) 16V [Non-USA]</b>		<b>1997-05</b>	<b>L4 BORE - 80.5mm /3.169"</b>
Valve	Exh	1997-05	10-3075	1.175 Head Dia. Bravo, Marea, Palio, Stilo
	Int	1997-05	10-3074	1.196 Head Dia. Bravo, Marea, Palio, Stilo
<b>LINE 8</b>	<b>1608cc (1.6L) DOHC 125BC</b>		<b>1971-73</b>	<b>L4 BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1971-73	21-1500-56	1.275T I.D. 1-1/2 O.D. 0.250 Depth
	Int	1971-73	21-1750-53	1.390T I.D. 1-3/4 O.D. 0.250 Depth
<b>LINE 9</b>	<b>1756cc (1.8L) DOHC 132AI</b>		<b>1974-78</b>	<b>L4 BORE - 84mm/3.307"</b>
Valve Seat Insert	Exh	1974-78	21-1500-56	1.275T I.D. 1-1/2 O.D. 0.250 Depth
	Int	1974-78	21-1750-53	1.390T I.D. 1-3/4 O.D. 0.250 Depth

**FIAT****PASSENGER CAR & TRUCK**

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 10</b>					
		<b>1995cc (2.0L) DOHC 132C2</b>			<b>1979-85 L4 BORE - 84mm/3.307"</b>
Valve Seat Insert	Exh	1979-85	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth	
	Int	1979-85	<b>21-1750-53</b>	1.390T I.D. 1-3/4 O.D. 0.250 Depth	

ENGINE	YEAR	CYL.	LINE NO.
224 C.I. (3.7L) Ford Marine 8V		L4	1
289 C.I. (4.7L) Ford Marine 16V		V8	2
302 C.I. (5.0L) Ford Marine 16V		V8	3
351 C.I. (5.8L) Ford Marine 16V		V8	4
429 C.I. (7.0L) Ford Marine 16V		V8	5
460 C.I. (7.5L) Ford Marine 16V		V8	6

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>224 C.I. (3.7L) Ford Marine 8V</b>			<b>L4 BORE - 4.358"/110.7mm</b>
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Valve	Exh		10-1271	1.654 Head Dia. 4.983 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1272	2.083 Head Dia. 5.198 OAL. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Exh		30-8035	2.390 OAL. w/ Knock Out Guide
Spring	Both		32-991	2.068 Free Length
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-900CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Rocker Component	Both		40-2888	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both		41-2547	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Push Rod			74-6274	8.550 Length

<b>LINE 2</b>	<b>289 C.I. (4.7L) Ford Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>
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Valve	Exh		10-1000	1.451 Head Dia. +15 O/S Stem May Be Avail.
	Int		10-1001	1.781 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both		32-786-D	2.047 Free Length. w/ Damper
	Both		32-902	1.970 Free Length
Keeper	Both		34-555	1 Square Groove. Heat Treated
Rocker Component	Both		40-2849	Rocker Arm. Cast. w/o Rails
	Both		40-2886	Rocker Arm, Cast w/ Rails.
	Both		42-2934	Rocker Stud. 3/8-24 x 2.600
Expansion Plug Kit			97-17	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 3</b>	<b>302 C.I. (5.0L) Ford Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>
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Valve	Exh		10-1000	1.451 Head Dia. 4.873 OAL. +3, 15 O/S Stem May Be Avail.
	Exh		10-1135	1.451 Head Dia. 5.070 OAL. +3, 15, 30 O/S Stem May Be Avail.
	Exh		10-1237	1.541 Head Dia. +3, 15, 30 O/S Stem Avail.
	Exh		10-1327	1.460 Head Dia. +15 O/S Stem Avail.
	Int		10-1001	1.780 Head Dia. 4.873 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1137	1.781 Head Dia. 5.050 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1328	1.782 Head Dia. +3,+15,+30 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth, w/ 1.460 Valve Head.
	Exh		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.541 Valve Head.
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.

# FORD

# MARINE

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 3</b>	<b>302 C.I. (5.0L) Ford Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>	
Spring	Both		<b>32-902</b>	1.970 Free Length	
	Both		<b>32-936</b>	1.943 Free Length. 0.200 Wire Dia., w/o Rotator	
	Exh		<b>32-1086</b>	1.923 Free Length. 0.185 Wire Dia. Use w/ Rotator	
	Int		<b>32-1011</b>	2.060 Free Length.	
Keeper	Both		<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both		<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron	
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber	
	Both		<b>38-1066-75</b>	All Teflon. 11/32 x 0.530	
	Both		<b>38-1090-75</b>	All Teflon. 11/32 x 0.500	
	Both		<b>38-810-45</b>	Viton. Ring And Band.	
	Both		<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.	
	Both		<b>38-938-45</b>	Viton. Ring And Band. Use w/ 0.552 O.D. Guide	
	Rocker Component	Both		<b>40-2886</b>	Rocker Arm, Cast w/ Rails
		Both		<b>40-2889</b>	Rocker Arm, Stamped
Rocker Kit	Both		<b>41-2548</b>	1 40-2889, 1 42-1741 Bolt, 1 42-1776 Pivot	
	Both		<b>41-2610</b>	1 40-2886, 1 42-1772 Grooved Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut	
Rocker Component			<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600	
Push Rod	Both		<b>74-6281</b>	6.876 Length	
	Both		<b>74-6458</b>	6.400 Length Retrofit Hyd. Roller	
Expansion Plug Kit			<b>97-17</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 4</b>	<b>351 C.I. (5.8L) Ford Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>	
Valve	Exh		<b>10-1237</b>	1.541 Head Dia. +3, 15, 30 O/S Stem Avail.	
	Exh		<b>10-1327</b>	1.460 Head Dia. +15 O/S Stem Avail.	
	Int		<b>10-1238</b>	1.842 Head Dia. +3, 15, 30 O/S Stem Avail.	
	Int		<b>10-1328</b>	1.782 Head Dia. +3,+15,+30 O/S Stem May Be Avail.	
Valve Seat Insert	Exh		<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth, w/ 1.460 Valve Head.	
	Exh		<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.	
	Int		<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.	
	Int		<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth.	
Guide	Both		<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
Spring	Exh		<b>32-1086</b>	1.923 Free Length.	
	Int		<b>32-1175</b>	2.040 Free Length	
Keeper	Exh		<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both		<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron	
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber	
	Both		<b>38-1090-75</b>	All Teflon. 11/32 x 0.500	
	Both		<b>38-810-45</b>	Viton. Ring And Band.	
	Both		<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.	
	Both		<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Rocker Component	Both		<b>40-2886</b>	Rocker Arm, Cast w/ Rails
Both			<b>40-2889</b>	Rocker Arm, Stamped	
Rocker Kit	Both		<b>41-2548</b>	1 40-2889, 1 42-1741 Bolt, 1 42-1776 Pivot	
	Both		<b>41-2610</b>	1 40-2886, 1 42-1772 Grooved Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut	
Expansion Plug Kit			<b>97-17</b>	Cleveland. Steel Kit. Brass Kit Avail. In Suffix B	



# FORD

# MARINE

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>351 C.I. (5.8L) Ford Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>
Expansion Plug Kit			97-18	Windsor, Modified. Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>429 C.I. (7.0L) Ford Marine 16V</b>			<b>V8 BORE - 4.358"/110.7mm</b>
Valve	Exh		10-1102	1.654 Head Dia. 5.080 OAL. +3, +15 O/S Stem May Be Avail.
	Exh		10-1271	1.654 Head Dia. 4.983 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1103	2.083 Head Dia. 5.228 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1272	2.083 Head Dia. 5.198 OAL. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring			32-991	2.068 Free Length
	Both		32-961-D	Hi.-Perf. 2.026 Free Length
Keeper	Both		34-555	1 Square Groove. Heat Treated
Expansion Plug Kit			97-21	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 6</b>	<b>460 C.I. (7.5L) Ford Marine 16V</b>			<b>V8 BORE - 4.358"/110.7mm</b>
Valve	Exh		10-1102	1.654 Head Dia. 5.080 OAL. +3, +15 O/S Stem May Be Avail.
	Exh		10-1271	1.654 Head Dia. 4.983 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1103	2.083 Head Dia. 5.228 OAL. +3, +15 O/S Stem May Be Avail.
	Int		10-1272	2.083 Head Dia. 5.198 OAL. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring			32-991	2.068 Free Length
Keeper	Both		34-555	1 Square Groove. Heat Treated
Expansion Plug Kit			97-21	Steel Kit. Brass Kit Avail. In Suffix B

<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
999cc (1.0L) DOHC 16V	2015-16	L4	1
1324cc (1.3L) SOHC 8V (Mazda) Vin K, H	1988-97	L4	2
1388cc (1.4L) DOHC 16V Zetec SE (Non-USA)	1995-08	L4	3
1499cc (1.5L) DOHC 16V Turbo	2014-16	L4	4
1596cc (1.6L) DOHC 16V	2010-16	L4	5
1598cc (1.6L) SOHC 8V (B6 Mazda) Vin 5	1987-89	L4	6
98 C.I. (1.6L) SOHC 8V Vin 2	1981-85	L4	7
1598cc (1.6L) DOHC 16V Vin 6 (Turbo), Z	1991-94	L4	8
1598cc (1.6L) SOHC Zetec-Rocam (Non USA)	1999-09	L4	9
1599cc (1.6L) 8V Vin L, W	1971-73	L4	10
1599cc (1.6L) 8V Vin F	1978-80	L4	11
1796cc (1.8L) SOHC 8V (Mazda) Vin A	1972-78	L4	12
112 C.I. (1.8L) DOHC 16V (Mazda) Vin 8	1991-96	L4	13
116 C.I. (1.9L) SOHC 8V Vin 9, J, K	1985-96	L4	14
1979cc (2.0L) SOHC 8V (Mazda) Vin C, 1	1979-82	L4	15
122 C.I. (2.0L) SOHC 8V Vin X	1971-74	L4	16
122 C.I. (2.0L) SOHC Diesel 8V Vin H (Mazda)	1984-88	L4	17
122 C.I. (2.0L) DOHC 16V (Mazda) Vin A	1993-97	L4	18
122 C.I. (2.0L) DOHC 16V ZETEC Vin 3,B,Z Bifuel	1995-04	L4	19
122 C.I. (2.0L) SOHC 8V Vin C	1983-88	L4	20
122 C.I. (2.0L) DOHC 16V Vin 2,7,9,N,U	2005-16	L4	21
122 C.I. (2.0L) SOHC 8V Vin P	1997-04	L4	22
133 C.I. (2.2L) 12V SOHC (Mazda) F2 Vin C	1989-92	L4	23
133 C.I. (2.2L) 12V SOHC Turbo (Mazda) Vin L	1989-92	L4	24
140 C.I. (2.3L) DOHC 16V Vin D,H (Hybrid), Z Duratec	2001-13	L4	25
140 C.I. (2.3L) SOHC 8V Vin ABDMRSTWXY26 (HSC)	1974-97	L4	26
140 C.I. (2.3L) OHV Turbo Diesel (Mits.) 8V Vin E	1985-87	L4	27
2.3L DOHC 16V Ecoboost Turbo	2015-16	L4	28
144 C.I. (2.4L) 12V	1960-64	L6	29
2488cc (2.5L) DOHC 16V Duratec (Hybrid) Vin 3,7,A	2009-16	L4	30
153 C.I. (2.5L) SOHC 8V Gas Vin C	1998-02	L4	31
2507cc (2.5L) DOHC 24V KL Vin B (Mazda)	1993-97	V6	32
153 C.I. (2.5L) OHV HSC Vin D 8V	1986-91	L4	33
155 C.I. (2.5L)	1972-73	V6	34
155 C.I. (2.5L) DOHC 24V Duratec Vin G,L	1995-02	V6	35
2676cc (2.7L) DOHC 24V Turbo	2015-16	V6	36
170 C.I. (2.8L) 12V Vin U	1961-72	L6	37
171 C.I. (2.8L) 12V Vin S	1983-86	V6	38
171 C.I. (2.8L) Vin Z	1974-79	V6	39
177 C.I. (2.9L) OHV 12V Vin T,V	1986-92	V6	40
2960cc (3.0L) SOHC 12V (Nissan VG30E) Vin W, 1	1993-98	V6	41
182 C.I. (3.0L) DOHC 24V Vin 1,G,S Duratec	1996-12	V6	42
182 C.I. (3.0L) OHV 12V Vin U,V,1,2 Flex	1986-08	V6	43
182 C.I. (3.0L) DOHC 24V Yamaha SHO Vin Y	1989-95	V6	44
3198cc (3.2L) DOHC 20V	2015-15	L5	45
195 C.I. (3.2L) DOHC 24V Yamaha SHO Vin P	1993-95	V6	46
3275cc (3.3L) SOHC (Nissan VG33E) 12V Vin A,T	1999-02	V6	47
200 C.I. (3.3L) 12V Vin B,T,X	1963-83	L6	48
207 C.I. (3.4L) DOHC 32V SHO Vin N	1996-99	V8	49
3496cc (3.5L) DOHC 24V Vin 8,C,G,T,W	2007-16	V6	50
215 C.I. (3.5L)	1952-53	L6	51
221 C.I. (3.6L) 16V	1962-63	V8	52
223 C.I. (3.7L)	1954-64	L6	53
226 C.I. (3.7L) L-Head	1946-51	L6	54

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3726cc (3.7L) DOHC 24V Vin K,M,R	2009-16	V6	55
232 C.I. (3.8L) OHV 12V Vin C,R,3,4,6	1982-07	V6	56
239 (3.9L) L-Head	1932-53	V8	57
239 C.I. (3.9L)	1954-55	V8	58
240 C.I. (3.9L) Vin B, E	1965-74	L6	59
242 C.I. (3.9L) DOHC 32V Vin A	2000-06	V8	60
244 C.I. (4.0L) OHV 12V VGE4 German Vin X	1990-01	V6	61
245 C.I. (4.0L) SOHC 12V Vin E,K,N	1997-11	V6	62
250 C.I. (4.1L) OHV Vin C, L	1969-80	L6	63
255 C.I. (4.2L) OHV 16V Vin D	1980-82	V8	64
256 C.I. (4.2L) OHV 12V Vin 2	1997-08	V6	65
256 C.I. (4.2L) 16V	1954-55	V8	66
255 C.I. (4.2L) L-Head	1948-53	V-8	67
260 C.I. (4.3L) 16V	1962-65	V8	68
262 C.I. (4.3L)	1961-64	L6	69
272 C.I. (4.5L)	1955-62	V8	70
281 C.I. (4.6L) SOHC 16V Vin 6,9,V,W,X CNG Gas/Flex	1992-14	V8	71
281 C.I. (4.6L) SOHC 24V Vin H,8	2005-10	V8	72
281 C.I. (4.6L) DOHC 32V Vin A,H,R,V,Y	1993-05	V8	73
289 C.I. (4.7L) 16V Vin C	1963-68	V8	74
292 C.I. (4.8L)	1955-64	V8	75
300 C.I. (4.9L) Heavy Duty 12V	1965-79	L6	76
300 C.I. (4.9L) Light Duty	1965-96	L6	77
300 C.I. (4.9L) LPG OHV Bi-Fuel, FI, 12V Vin Z	1994-96	L6	78
302 C.I. 4951cc (5.0L) DOHC 32V Vin F,U	2010-16	V8	79
302 C.I. (5.0L) 16V	1956-63	V8	80
302 C.I. (5.0L) Carb., F.I. Vin E,F,N,P,T	1968-01	V8	81
312 C.I. (5.1L)	1956-60	V8	82
318 C.I. (5.2L) 16V	1952-54	V8	83
330 C.I. (5.4L) Medium Duty	1964-77	V8	84
330 C.I. (5.4L) Heavy Duty	1964-79	V8	85
330 C.I. (5.4L) SOHC 16V Vin 3,L,M,W,Z (Gas, CNG)	1997-16	V8	86
330 C.I. (5.4L) SOHC 24V Triton Vin 5,V Gas/Flex	2004-14	V8	87
330 C.I. (5.4L) DOHC 32V Vin A,R,S	1999-14	V8	88
332 C.I. (5.4L)	1956-63	V8	89
332 C.I. (5.4L) OHV 16V	1958-59	V8	90
335 C.I. (5.5L) (Non-USA)	1969-95	V8	91
351 C.I. (5.8L) Lightning 16V Vin R	1993-95	V8	92
351 C.I. (5.8L) Windsor Vin G, H, M	1969-97	V8	93
351C C.I. (5.8L) Cleveland Vin Q	1970-74	V8	94
351M C.I. (5.8L) Modified	1975-81	V8	95
352 C.I. (5.8L), 361 C.I. (5.9L) 16V	1958-67	V8	96
355 C.I. (5.8L) DOHC 32V Vin Z S/C	2013-14	V8	97
359 C.I. (5.9L) 16V Vin K	1974-78	V8	98
360 C.I. (5.9L) Vin Y	1968-76	V8	99
361 C.I. (5.9L) 16V	1964-78	V8	100
363 C.I. (6.0L) 32V Vin P Turbo Diesel Powerstroke	2003-10	V8	101
368 C.I. (6.0L) 16V	1956-57	V8	102
370 C.I. (6.1L) 16V Vin A, H	1979-91	V8	103
6210cc (6.2L) SOHC 16V Vin 6	2010-16	V8	104
383 C.I. (6.3L) 16V	1958-59	V8	105
6.4L OHV 32V Diesel (Navistar) Vin R	2008-10	V8	106
389 C.I. (6.4L) 16V Vin F	1975-78	V8	107
390 C.I. (6.4L) 16V Vin H,M,S,X,Y,Z	1961-76	V8	108
391 C.I. (6.4L) Vin F 16V	1964-78	V8	109
400 C.I. (6.6L) OHV 16V Vin S,Z	1971-82	V8	110

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401 C.I. (6.6L) 16V Vin H	1958-76	V8	111
401 C.I. (6.6L) OHV Turbo Diesel Brazil 12V Vin P	1986-94	L6	112
406 C.I. (6.6L)	1962-63	V8	113
6651cc (6.7L) OHV 32V Powerstroke	2010-16	V8	114
410 C.I. (6.7L) / 428 C.I. (7.0L) Vin P, Q, R	1958-70	V8	115
415 C.I. (6.8L) SOHC 20V Triton Vin S	1997-16	V10	116
415 C.I. (6.8L) SOHC 30V Vin Y Heavy Duty Triton	2005-14	V10	117
420 C.I. (6.9L) Navistar Diesel 16V Vin 1	1983-87	V8	118
427 C.I. (7.0L) 16V	1963-69	V8	119
429 C.I. (7.0L) Vin C, J, K, N, Z	1968-73	V8	120
429 C.I. (7.0L) Carb., F.I., LPG 16V Vin 8,C,K,J	1979-98	V8	121
430 C.I. (7.0L)	1958-65	V8	122
7.3L 16V Diesel Vin CFKM Powerstroke Incl. Dir. Inj.	1988-05	V8	123
460 C.I. (7.5L) Carb., F.I., LPG 16V Vin A,C,J,L,G	1968-97	V8	124
462 C.I. (7.6L) 16V	1966-68	V8	125
474 C.I. (7.8L) Turbo Diesel Brazil 12V	1987-94	L6	126
477 C.I. (7.8L) 16V Vin J,K Medium Duty	1958-81	V8	127
534 C.I. (8.8L) 16V Vin L Medium Duty	1958-81	V8	128

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>999cc (1.0L) DOHC 16V</b>		<b>2015-16 L4</b>	<b>BORE - 71.9mm/2.830"</b>
No Parts Available			00	
<b>LINE 2</b>	<b>1324cc (1.3L) SOHC 8V (Mazda) Vin K, H</b>		<b>1988-97 L4</b>	<b>BORE - 2.795"/71mm</b>
Valve	Exh	1988-97	10-10153	1.103 Head Dia.
	Int	1988-97	10-10118	1.261 Head Dia.
Valve Seat Insert	Exh	1988-97	21-1250-52	0.910T I.D. 1-1/4 O.D. 0.285 Depth
	Int	1988-97	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
Guide	Both	1988-97	30-8036	1.970 OAL. +2 O/S Avail.
Lifter	Both	1990-97	36-2254	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1988-97	38-997-45	Viton. Metal Clad.
Expansion Plug Kit		1988-97	97-0178	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>1388cc (1.4L) DOHC 16V Zetec SE (Non-USA)</b>		<b>1995-08 L4</b>	<b>BORE - 76mm/2.99"</b>
Valve	Exh	1995-08	10-03005	0.949 Head Dia. Fiesta, Ka
	Int	1995-08	10-03004	1.106 Head Dia. Fiesta, Ka
Valve Stem Seal	Both	1999-08	38-6118-55	Viton. Top Hat.
<b>LINE 4</b>	<b>1499cc (1.5L) DOHC 16V Turbo</b>		<b>2014-16 L4</b>	<b>BORE - 79mm/3.11"</b>
No Parts Available			00	
<b>LINE 5</b>	<b>1596cc (1.6L) DOHC 16V</b>		<b>2010-16 L4</b>	<b>BORE - 79mm/3.11"</b>
Valve	Exh	2010-14	10-30125	0.952 Head Dia. 0.2344 Stem
	Int	2010-14	10-30124	1.185 Head Dia. 0.2348 Stem
Guide	Both	2010-14	30-3295	
Valve Stem Seal	Both	2010-14	38-6119-55	Viton. Top Hat
<b>LINE 6</b>	<b>1598cc (1.6L) SOHC 8V (B6 Mazda) Vin 5</b>		<b>1987-89 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve	Exh	1987-89	10-10155	1.259 Head Dia.
	Int	1987-89	10-10154	1.476 Head Dia.
Valve Seat Insert	Exh	1987-89	21-1437-66	1.120 I.D. 1-7/16 O.D. 0.300 Depth
	Int	1987-89	21-1625-54	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
Guide	Both	1987-89	30-8205	1.990 OAL

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>1598cc (1.6L) SOHC 8V (B6 Mazda) Vin 5</b>		<b>1987-89 L4</b>	<b>BORE - 3.15"/80mm</b>
Spring	Both	1987-87	<b>32-1293</b>	2.341 Free Length.
Lifter	Both	1987-89	<b>36-2254</b>	From 11-1-87. Hydraulic
Valve Stem Seal	Both	1987-89	<b>38-997-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1987-89	<b>97-0222</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 7</b>	<b>98 C.I. (1.6L) SOHC 8V Vin 2</b>		<b>1981-85 L4</b>	<b>BORE - 3.147"/79.9mm</b>
Valve	Exh	1981-85	<b>10-1451</b>	1.457 Head Dia. +15 O/S Stem May Be Avail.
	Int	1981-85	<b>10-1452</b>	1.654 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1981-85	<b>21-1562-54</b>	1.220T I.D. 1-9/16 O.D. 0.344 Depth.
	Int	1981-85	<b>21-1750-60</b>	1.437T I.D. 1-3/4 O.D. 0.302 Depth.
Guide	Both	1981-85	<b>30-7822</b>	2.525 OAL. Use If Concentricity Of Original Is Within 0.005 - Check Hole Size After Removal Of Old Guide, Resurface Seat. 0.535 O.D. +2 O/S Avail.
	Both	1981-85	<b>30-7823</b>	2.525 OAL. Use To Correct O.E. Eccentricity. Use A 35/64 Minimum Dia. Core Drill And A 9/16 Reamer w/ Appropriate Pilot. 0.5655 O.D.
Spring	Both	1983-85	<b>32-1247</b>	Incl. 1981-82 H.O. 1.855 Free Length
Keeper	Both	1981-85	<b>34-619</b>	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1981-85	<b>38-840-45</b>	Viton. Top Hat. Fits 0.474 Guide Seal O.D.
	Both	1981-85	<b>38-950-15</b>	Nitrile. Metal Clad.
	Both	1981-85	<b>38-950-25</b>	Polyacrylic. Metal Clad.
<b>LINE 8</b>	<b>1598cc (1.6L) DOHC 16V Vin 6 (Turbo), Z</b>		<b>1991-94 L4</b>	<b>BORE - 3.147"/79.9mm</b>
Valve	Exh	1991-94	<b>10-10159</b>	1.031 Head Dia. 0.235 Stem
	Int	1991-94	<b>10-10157</b>	1.220 Head Dia. 0.2354 Stem
Valve Seat Insert	Exh	1991-94	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	1991-94	<b>21-1250-61</b>	0.976 I.D. 1-1/4 O.D. 0.180 Depth
Guide	Exh	1991-94	<b>30-8186</b>	1.920 OAL. Incl. Lock Ring
	Int	1991-94	<b>30-8187</b>	1.920 OAL. Incl. Lock Ring. Tapered End
Lifter	Both	1991-94	<b>36-2276</b>	Hydraulic Bucket
Valve Stem Seal	Both	1991-94	<b>38-950-15</b>	Nitrile. Metal Clad.
	Both	1991-94	<b>38-998-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1991-94	<b>97-0222</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 9</b>	<b>1598cc (1.6L) SOHC Zetec-Rocam (Non USA)</b>		<b>1999-09 L4</b>	<b>BORE - 82mm/3.23"</b>
Valve	Exh	1999-09	<b>10-3103</b>	1.337 Head Dia. Fiesta, Ikon, Courier
	Int	1999-09	<b>10-3102</b>	1.600 Head Dia. Fiesta, Ikon, Courier
Lifter	Both	1999-09	<b>36-7101</b>	Hydraulic Lash Adjuster
<b>LINE 10</b>	<b>1599cc (1.6L) 8V Vin L, W</b>		<b>1971-73 L4</b>	<b>BORE - 3.188"/81mm</b>
Valve Seat Insert	Exh	1971-73	<b>20-1375-1</b>	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.
	Int	1971-73	<b>20-1562-5</b>	1-3/8 I.D. 1-9/16 O.D. 1/4 Depth
Guide	Both	1971-73	<b>30-9205</b>	2.000 OAL. 0.502 O.D. 0.474 Seal O.D. Spiral I.D. 30-7205 Plain I.D. Also Avail.
Spring	Both	1971-73	<b>32-1015</b>	1.480 Free Length
Valve Stem Seal	Both	1971-73	<b>38-840-45</b>	Viton. Top Hat. Fits 0.474 Guide Seal O.D.
	Both	1971-73	<b>38-950-15</b>	Nitrile. Metal Clad.
	Both	1971-73	<b>38-950-25</b>	Polyacrylic. Metal Clad.
Expansion Plug Kit		1971-73	<b>97-37</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>1599cc (1.6L) 8V Vin F</b>		<b>1978-80 L4</b>	<b>BORE - 3.188"/81mm</b>
Valve Seat Insert	Exh	1978-80	20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.
	Int	1978-80	20-1437-1	1-1/4 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both	1978-80	30-9205	2.000 OAL. Spiral I.D. 30-7205 Plain I.D. Also Avail.
Spring	Both	1978-80	32-1015	1.480 Free Length.
Valve Stem Seal	Both	1978-80	38-1065-70	Teflon And Rubber. 1 Ring
	Both	1978-80	38-1066-75	All Teflon. 11/32 x 0.530
	Both	1978-80	38-950-15	Nitrile. Metal Clad.
	Both	1978-80	38-950-25	Polyacrylic. Metal Clad.
Expansion Plug Kit		1978-80	97-37	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 12</b>	<b>1796cc (1.8L) SOHC 8V (Mazda) Vin A</b>		<b>1972-78 L4</b>	<b>BORE - 3.07"/78mm</b>
Valve	Exh	1972-78	10-10060S	1.297 Head Dia.
	Int	1972-78	10-10061	1.656 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1972-78	21-1500-57	1.100T I.D. 1-1/2 O.D. 0.316 Depth.
	Int	1972-78	21-1750-54	1.460T I.D. 1-3/4 O.D. 0.316 Depth.
Guide	Both	1972-78	30-9462	1.990 OAL
Keeper	Exh	1972-78	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1972-78	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Expansion Plug Kit		1972-78	97-41	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 13</b>	<b>112 C.I. (1.8L) DOHC 16V (Mazda) Vin 8</b>		<b>1991-96 L4</b>	<b>BORE - 3.2677"/83mm</b>
Valve	Exh	1991-96	10-10235	1.103 Head Dia. 3.997 OAL. 0.235 Stem
	Int	1991-96	10-10234	1.298 Head Dia. 3.990 OAL. 0.235 Stem
Valve Seat Insert	Exh	1991-96	21-1250-56	0.905T I.D. 1-1/4 O.D. 0.230 Depth.
	Int	1991-96	21-1437-74	1.162 I.D. 1-7/16 O.D. 0.230 Depth.
Guide	Exh	1991-96	30-8174	1.808 OAL. 0.436 O.D. Incl. Lock Ring
	Int	1991-96	30-8173	1.775 OAL. 0.436 O.D. Incl. Lock Ring
Lifter	Both	1991-96	36-2276	30mm. Hydraulic
Valve Stem Seal		1991-96	38-998-45	Viton. Metal Clad
Expansion Plug Kit		1991-96	97-41	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 14</b>	<b>116 C.I. (1.9L) SOHC 8V Vin 9, J, K</b>		<b>1985-96 L4</b>	<b>BORE - 3.226"/81.94mm</b>
Valve	Exh	1985-96	10-1451	1.457 Head Dia. 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only. +15 O/S Stem May Be Avail.
	Exh	1987-96	10-1545	1.339 Head Dia. 1987-90 CFI, 1991-94 EFI, 1995-96 U.S. Built Only. +15 O/S Stem May Be Avail.
	Int	1985-96	10-1452	1.654 Head Dia. 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only. +3, +15 O/S Stem May Be Avail.
	Int	1987-96	10-1546	1.535 Head Dia. 1987-90 CFI, 1991-94 EFI, 1995-96 U.S. Built Only. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1987-96	21-1437-65	1.105 I.D. 1-7/16 O.D. 0.322 Depth, 1987-90 CFI, 1991-94 EFI, 1995 U.S. Built Only
	Exh	1985-96	21-1562-54	1.220T I.D. 1-9/16 O.D. 0.344 Depth, 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only. 1.450 Valve Head Dia.
	Int	1987-96	21-1625-62	1.320 I.D. 1-5/8 O.D. 0.300 Depth, 1987-90 CFI, 1991-94 EFI, 1995 U.S. Built Only 1.530 Valve Head Dia
	Int	1985-96	21-1750-60	1.437T I.D. 1-3/4 O.D. 0.302 Depth, 1987-90 EFI, 1994 H.O., 1995-96 Mexico Built Only. 1.650 Valve Head Dia.
Guide	Both	1985-96	30-7822	2.525 OAL. 0.474 Seal O.D. Use If Concentricity Of Original Is Within 0.005 - Check Hole Size After Removal Of Old Guide, Resurface Seat. 0.535 O.D. +2 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 14</b>	<b>116 C.I. (1.9L) SOHC 8V Vin 9, J, K</b>		<b>1985-96 L4</b>	<b>BORE - 3.226"/81.94mm</b>
Guide	Both	1985-96	30-7823	2.525 OAL. Use To Correct O.E. Eccentricity. Use A 35/64 Minimum Dia. Core Drill And A 9/16 Reamer w/ Appropriate Pilot. 0.5655 O.D.
Spring	Exh	1985-96	32-1299	1.902 Free Length
	Int	1985-96	32-1247	1.855 Free Length.
Keeper	Both	1985-96	34-619	Heat Treated. 3 Groove.
Lifter	Both	1987-96	36-2217	Hydraulic Roller
Valve Stem Seal	Both	1985-96	38-840-45	Viton. Top Hat. Fits 0.474 Guide Seal O.D.
	Both	1985-90	38-950-25	Polyacrylic. Metal Clad. 38-951-15 Also Avail.
Retainer	Both	1987-96	55-6226	0.960 O.D. 8mm Stem
Expansion Plug Kit		1985-96	97-107	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 15</b>	<b>1979cc (2.0L) SOHC 8V (Mazda) Vin C, 1</b>		<b>1979-82 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve	Exh	1979-81	10-10060S	1.297 Head Dia.
	Int	1979-81	10-10061	1.656 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1979-81	21-1500-57	1.100T I.D. 1-1/2 O.D. 0.316 Depth.
	Int	1979-81	21-1750-54	1.460T I.D. 1-3/4 O.D. 0.316 Depth.
Guide	Both	1979-81	30-9557	2.000 OAL. Spiral I.D. 30-7557 Plain I.D. Also Avail.
Keeper	Exh	1979-82	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1979-82	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1979-82	38-937-15	Nitrile. Ring And Band.
Expansion Plug Kit		1979-82	97-41	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 16</b>	<b>122 C.I. (2.0L) SOHC 8V Vin X</b>		<b>1971-74 L4</b>	<b>BORE - 3.518"/89.36mm</b>
Valve	Exh	1971-74	10-1199	1.417 Head Dia.
	Int	1971-74	10-1200	1.654 Head Dia.
Valve Seat Insert	Exh	1971-74	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1971-74	20-1750-3	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth.
Guide	Both	1971-74	30-9198	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.
Spring	Both	1971-74	32-1044	1.730 Free Length
Keeper	Both	1971-74	34-619	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1971-74	38-950-25	Polyacrylic. Metal Clad.
	Both	1971-74	38-951-25	Polyacrylic. 2-Ring.
Expansion Plug Kit		1971-74	97-38	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>122 C.I. (2.0L) SOHC Diesel 8V Vin H (Mazda)</b>		<b>1984-88 L4</b>	<b>BORE - 3.386"/86mm</b>
Valve Seat Insert	Int	1984-87	21-1687-57	1.335T I.D. 1-11/16 O.D. 0.275 Depth.
Keeper	Both	1984-87	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1984-87	38-951-25	Polyacrylic. 2-Ring.
Expansion Plug Kit		1984-87	97-38	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 18</b>	<b>122 C.I. (2.0L) DOHC 16V (Mazda) Vin A</b>		<b>1993-97 L4</b>	<b>BORE - 3.2677"/83mm</b>
Valve	Exh	1993-97	10-10563	1.089 Head Dia. 0.235 Stem
	Int	1993-97	10-10562	1.240 Head Dia. 0.235 Stem
Guide	Both	1993-97	30-8561	1.490 OAL. 0.436 O.D. Incl. Lock Ring
Lifter	Both	1993-97	36-2276	30mm. Hydraulic
Valve Stem Seal	Both	1993-97	38-998-45	Viton. Metal Clad.
Retainer	Both	1993-97	55-6260	Chrome Moly. 0.750 O.D. 6mm Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 19</b>	<b>122 C.I. (2.0L) DOHC 16V ZETEC Vin 3,B,Z Bifuel</b>			<b>1995-04 L4</b>	<b>BORE - 3.341"/84.9mm</b>
Valve	Exh	1995-04	10-1746	1.102 Head Dia. 0.238 Stem. 1 Groove	
	Exh	2002-04	10-3039	Ford Focus SVT. 3 Groove	
	Int	1995-04	10-1745	1.260 Head Dia. Hollow Stem Valve 0.2376 Dia.	
	Int	2002-04	10-3040	Ford Focus SVT. 3 Groove	
Valve Seat Insert	Exh	1995-04	21-1187-51	0.905 I.D. 1-3/16 O.D. 0.257 Depth	
	Int	1995-04	22-1339-2	1.024 I.D. 1.339 O.D. 0.335 Depth	
Guide	Both	1995-04	30-8662	1.421 OAL. 0.4736 O.D. 0.2388 I.D.	
Keeper	Both	1995-04	34-5025	1 Round Groove	
Lifter	Both	1995-97	36-7022	Contour, Mystique	
Valve Stem Seal	Both	1995-04	38-571-45	Viton. Top Hat	
Retainer	Both	1995-04	55-6260	Chrome Moly. 0.750 O.D. 6mm Stem	
<b>LINE 20</b>	<b>122 C.I. (2.0L) SOHC 8V Vin C</b>			<b>1983-88 L4</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1983-88	10-1527	1.380 Head Dia. +3, +15 O/S Stem May Be Avail.	
	Int	1983-88	10-1528	1.610 Head Dia. +3, +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1983-88	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.	
	Int	1983-88	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth	
Guide	Both	1983-88	30-9206	2.188 OAL. Flanged. Spiral I.D. 30-7206 Plain I.D. Also Avail.	
Spring	Both	1983-88	32-1260	1.877 Free Length	
Keeper	Both	1983-88	34-620	Heat Treated. 4 Groove	
Lifter	Both	1983-88	36-2012	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1984-86	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
	Both	1983-83	38-951-25	Polyacrylic. 2-Ring.	
	Exh	1987-88	38-806-55	Viton. Metal Clad.	
	Int	1987-88	38-805-45	Viton. Metal Clad.	
Rocker Component	Both	1983-88	40-2810	Cam Follower, Forged	
Expansion Plug Kit		1983-88	97-39	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 21</b>	<b>122 C.I. (2.0L) DOHC 16V Vin 2,7,9,N,U</b>			<b>2005-16 L4</b>	<b>BORE - 3.44"/87.4mm</b>
Valve	Exh	2005-15	10-2007	1.181 Head Dia. 0.215 Stem	
	Int	2005-15	10-2006	1.378 Head Dia. 0.216 Stem	
Valve Seat Insert	Exh	2005-11	21-1250-62	1.000 I.D. 1-1/4 O.D. 0.305 Depth	
Guide	Both	2005-15	30-3070	1.535 OAL. 0.217 I.D. 0.435 O.D.	
Spring	Both	2005-15	32-04062	1.908 Free Length. Conical	
Keeper	Both	2005-15	34-5024	1 Round Groove	
Valve Stem Seal	Both	2005-15	38-6105-55	Viton. Top Hat	
<b>LINE 22</b>	<b>122 C.I. (2.0L) SOHC 8V Vin P</b>			<b>1997-04 L4</b>	<b>BORE - 3.30"/84mm</b>
Valve	Exh	1997-04	10-1936	1.457 Head Dia. 0.315 Stem	
	Int	1997-04	10-2044	1.732 Head Dia. 0.316 Stem	
Valve Seat Insert	Exh	1997-04	21-1500-71	1.240 I.D. 1-1/2 O.D. 0.317 Depth.	
	Int	1997-04	21-1812-56	1.535 I.D. 1-13/16 O.D. 0.293 Depth.	
Guide	Both	1997-04	30-3012	2.540 OAL. 0.3715 I.D. 0.5339 O.D. 0.474 Seal O.D	
Spring	Both	1997-04	32-2486	2.025 Free Length	
Keeper	Both	1997-04	34-00515	3 Round Grooves	
	Both	1997-04	34-619	Heat Treated. 3 Groove.	
Lifter	Both	1997-04	36-2217	Hydraulic Roller	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 22</b>	<b>122 C.I. (2.0L) SOHC 8V Vin P</b>			<b>1997-04 L4</b>	<b>BORE - 3.30"/84mm</b>
Valve Stem Seal	Both	1997-04	38-840-45	Viton. Top Hat.	
<b>LINE 23</b>	<b>133 C.I (2.2L) 12V SOHC (Mazda) F2 Vin C</b>			<b>1989-92 L4</b>	<b>BORE - 3.386"/86mm</b>
Valve	Exh	1989-92	10-10163	1.339 Head Dia.	
	Int	1989-92	10-10162	1.280 Head Dia.	
Valve Seat Insert	Exh	1989-92	21-1437-75	1.175 I.D. 1-7/16 O.D. 0.260 Depth.	
	Int	1989-92	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.	
Guide	Both	1989-92	30-8142	2.088 OAL	
Lifter	Both	1989-92	36-2254	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1989-92	38-997-45	Viton. Metal Clad.	
<b>LINE 24</b>	<b>133 C.I (2.2L) 12V SOHC Turbo (Mazda) Vin L</b>			<b>1989-92 L4</b>	<b>BORE - 3.386"/86mm</b>
Valve	Exh	1989-92	10-10164	1.339 Head Dia. +15 O/S May Be Avail.	
	Int	1989-92	10-10162	1.280 Head Dia.	
Valve Seat Insert	Exh	1989-92	21-1437-75	1.175 I.D. 1-7/16 O.D. 0.260 Depth.	
	Int	1989-92	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.	
Guide	Both	1989-92	30-8142	2.088 OAL	
Lifter	Both	1989-92	36-2254	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1989-92	38-997-45	Viton. Metal Clad.	
<b>LINE 25</b>	<b>140 C.I. (2.3L) DOHC 16V Vin D,H (Hybrid), Z Duratec</b>			<b>2001-13 L4</b>	<b>BORE - 3.44"/87.4mm</b>
Valve	Exh	2001-13	10-2007	1.181 Head Dia. 0.215 Stem	
	Int	2001-13	10-2006	1.378 Head Dia. 0.216 Stem	
Valve Seat Insert	Exh	2001-11	21-1250-62	1.000 I.D. 1-1/4 O.D. 0.305 Depth	
Guide	Both	2001-13	30-3070	1.535 OAL. 0.217 I.D. 0.435 O.D.	
Spring	Both	2001-06	32-04059	1.776 Free Length. '05-06 Vin H. Conical	
	Both	2001-13	32-04062	1.908 Free Length. Conical	
Keeper	Both	2001-13	34-5024	1 Round Groove	
Valve Stem Seal	Both	2001-13	38-6105-55	Viton. Top Hat	
<b>LINE 26</b>	<b>140 C.I. (2.3L) SOHC 8V Vin ABDMRSTWXY26 (HSC)</b>			<b>1974-97 L4</b>	<b>BORE - 3.68"/93.5mm</b>
Valve	Exh	1983-88	10-1397	1.500 Head Dia. For Turbo	
	Exh	1974-94	10-1597	1.500 Head Dia. +3, +15 O/S Stem May Be Avail.	
	Exh	1995-97	10-1744	1.500 Head Dia. 0.274 Stem Dia. 3 Groove. +3, +15 O/S Stem May Be Avail. Includes Flex Fuel.	
	Int	1974-94	10-1598	1.735 Head Dia. +3, +15 O/S Stem May Be Avail.	
	Int	1995-97	10-1743	1.735 Head Dia. 0.275 Stem. 3 Groove. +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1974-97	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.	
	Exh	1984-94	20-1562-36	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth. High Swirl Combustion (HSC) Eng.	
	Int	1974-97	20-1812-2	HSC Eng. 1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.	
Guide	Both	1995-97	30-8274	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.	
	Both	1974-94	30-9206	Int. HSC Eng. 2.188 OAL. Flanged. Spiral I.D. 30-7206 Plain I.D. Also Avail.	
	Exh	1985-94	30-9846	2.313 OAL. HSC Eng.	
Spring	Both	1995-97	32-04026	2.020 Free Length	
	Both	1974-82	32-1126	1.800 Free Length.	
	Both	1984-91	32-1262-D	1.850 Free Length. w/ Damper HSC Eng.	
Keeper	Both	1995-97	34-281	3 Groove	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 26</b>	<b>140 C.I. (2.3L) SOHC 8V Vin ABDMRSTWXY26 (HSC)</b>			<b>1974-97 L4 BORE - 3.68"/93.5mm</b>
Keeper	Both	1974-94	<b>34-620</b>	Heat Treated. 4 Groove
Lifter	Both	1974-97	<b>36-2012</b>	Hydraulic Lash Adjuster
	Both	1974-94	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1974-93	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1974-93	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1995-97	<b>38-309-45</b>	Viton. Metal Clad. Use w/ 0.275 Stem Dia.
	Both	1985-94	<b>38-736-45</b>	Viton. Ring And Band. Use w/ 0.552 O.D. Guide
	Both	1974-85	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Exh	1985-94	<b>38-806-55</b>	Viton. Metal Clad. HSC Eng.
	Exh	1974-94	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Int	1985-94	<b>38-805-45</b>	Viton. Metal Clad. HSC Eng.
Rocker Component	Both	1984-94	<b>40-2710</b>	Rocker Arm. Stamped
	Both	1974-89	<b>40-2810</b>	Non-Roller Cam Follower, Forged
Rocker Kit	Both	1984-94	<b>41-2611</b>	1 40-2710, 1 42-1702 Bolt, 1 42-1776 Pivot
Expansion Plug Kit		1984-94	<b>97-108</b>	HSC Eng.
		1974-97	<b>97-39</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 27</b>	<b>140 C.I. (2.3L) OHV Turbo Diesel (Mits.) 8V Vin E</b>			<b>1985-87 L4 BORE - 3.50"/91.1 mm</b>
Valve	Exh	1985-87	<b>10-10416</b>	1.339 Head Dia.
	Int	1985-87	<b>10-10415</b>	1.575 Head Dia.
Valve Seat Insert	Int	1985-87	<b>21-1750-66</b>	1.460T I.D. 1-3/4 O.D. 0.275 Depth
Guide	Exh	1985-87	<b>30-7851</b>	2.920 OAL
	Int	1985-87	<b>30-7850</b>	2.800 OAL
Keeper	Both	1985-87	<b>34-716</b>	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1985-87	<b>38-938-45</b>	Viton. Ring And Band.
	Both	1985-87	<b>38-964-55</b>	Viton. Metal Clad.
<b>LINE 28</b>	<b>2.3L DOHC 16V Ecoboost Turbo</b>			<b>2015-16 L4 BORE - 87.6mm/3.449"</b>
Keeper	Both	2015-15	<b>34-5024</b>	1 Round Groove
Valve Stem Seal	Both	2015-15	<b>38-6105-55</b>	Viton. Top Hat
<b>LINE 29</b>	<b>144 C.I. (2.4L) 12V</b>			<b>1960-64 L6 BORE - 3.50"/88.9mm</b>
Valve	Exh	1960-64	<b>10-564</b>	1.268 Head Dia. +3 & +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1960-64	<b>20-1375-4</b>	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
	Int	1960-64	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
Guide	Both	1960-64	<b>30-9869</b>	1.875 OAL. 0.439 O.D. Spiral I.D. 30-6869 Plain I.D. Also Avail.
	Both	1960-64	<b>30-9977</b>	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Spring	Both	1960-62	<b>32-715</b>	2.000 Free Length
	Both	1963-64	<b>32-778</b>	1.828 Free Length
Keeper	Exh	1960-64	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1963-64	<b>36-2083</b>	Hydraulic
	Both	1960-64	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1960-64	<b>38-1062-70</b>	Teflon And Rubber. 1 Ring
	Both	1960-64	<b>38-766-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-766-15 Also Avail.
Expansion Plug Kit		1960-64	<b>97-14</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 30</b>	<b>2488cc (2.5L) DOHC 16V Duratec (Hybrid) Vin 3,7,A</b>			<b>2009-16 L4 BORE - 89mm/3.50"</b>
Valve	Exh	2009-15	<b>10-2007</b>	1.181 Head Dia. 0.215 Stem
	Int	2009-15	<b>10-2006</b>	1.378 Head Dia. 0.216 Stem
Guide	Both	2009-15	<b>30-3070</b>	1.535 OAL. 0.217 I.D. 0.435 O.D.
Spring	Both	2009-15	<b>32-04062</b>	1.908 Free Length. Conical
Keeper	Both	2009-15	<b>34-5024</b>	1 Round Groove
Valve Stem Seal	Both	2009-15	<b>38-6105-55</b>	Viton. Top Hat
Retainer	Both	2009-15	<b>55-6194</b>	Chrome Moly. 0.890 O.D. 7mm Stem
<b>LINE 31</b>	<b>153 C.I. (2.5L) SOHC 8V Gas Vin C</b>			<b>1998-02 L4 BORE - 3.78"/96mm</b>
Valve	Exh	1998-02	<b>10-1744</b>	1.500 Head Dia. 0.274 Stem Dia. 3 Groove. +3 & +15 O/S Stem May Be Avail. Includes Flex Fuel.
	Int	1998-02	<b>10-1743</b>	1.735 Head Dia. 0.274 Stem Dia. 3 Groove. +15 O/S Stem May Be Avail. Includes Flex Fuel.
Valve Seat Insert	Exh	1998-02	<b>20-1562-6</b>	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth.
	Int	1998-02	<b>20-1812-2</b>	1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both	1998-02	<b>30-8274</b>	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
Spring	Both	1998-02	<b>32-04026</b>	2.020 Free Length
Keeper	Both	1998-02	<b>34-281</b>	3 Groove
Lifter	Both	1998-02	<b>36-2012</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1999-02	<b>38-224-45</b>	Top Hat. Viton. Height 0.837
	Both	1998-99	<b>38-309-45</b>	Viton. Metal Clad.
<b>LINE 32</b>	<b>2507cc (2.5L) DOHC 24V KL Vin B (Mazda)</b>			<b>1993-97 V6 BORE - 84.5mm/3.33"</b>
Valve	Exh	1993-97	<b>10-10551</b>	1.086 Head Dia. Exc. Calif.
	Int	1993-97	<b>10-10550</b>	1.260 Head Dia.
Guide	Both	1993-96	<b>30-8156</b>	1.490 OAL. Incl. Lock Ring
	Both	1993-97	<b>30-8561</b>	1.490 OAL. 0.2370 Inside Dia.
Lifter	Both	1993-97	<b>36-2276</b>	30mm. Hydraulic
	Both	1993-97	<b>36-7017</b>	33mm. Hydraulic
Valve Stem Seal	Both	1993-97	<b>38-998-45</b>	Viton. Metal Clad.
<b>LINE 33</b>	<b>153 C.I. (2.5L) OHV HSC Vin D 8V</b>			<b>1986-91 L4 BORE - 3.60"/93.47mm</b>
Valve	Exh	1986-91	<b>10-1597</b>	1.500 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1986-91	<b>10-1598</b>	1.735 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1986-91	<b>20-1562-36</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth.
	Int	1986-91	<b>20-1812-2</b>	1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1986-91	<b>30-9846</b>	2.313 OAL
	Int	1986-91	<b>30-9206</b>	2.188 OAL. Flanged. Spiral I.D. 30-7206 Plain I.D. Also Avail.
Spring	Both	1986-90	<b>32-1262-D</b>	1.850 Free Length. w/ Damper
Keeper	Both	1986-91	<b>34-620</b>	Heat Treated. 4 Groove
Lifter	Both	1986-91	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1986-91	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Exh	1986-91	<b>38-806-55</b>	Viton. Metal Clad.
	Int	1986-91	<b>38-805-45</b>	Viton. Metal Clad.
Rocker Component	Both	1986-91	<b>40-2710</b>	Rocker Arm, Stamped
Rocker Kit	Both	1986-91	<b>41-2611</b>	1 40-2710, 1 42-1702 Bolt, 1 42-1776 Pivot
Expansion Plug Kit		1986-91	<b>97-108</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 34</b>	<b>155 C.I. (2.5L)</b>				<b>1972-73 V6 BORE - 3.54"/90mm</b>
Valve	Exh	1972-73	<b>10-1300</b>	1.269 Head Dia. +15 O/S Stem May Be Avail.	
	Int	1972-73	<b>10-1285</b>	1.570 Head Dia. +15 O/S Stem May Be Avail.	
Guide	Both	1972-73	<b>30-9198</b>	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.	
Keeper	Exh	1972-73	<b>34-619</b>	Heat Treated. 3 Groove.	
	Int	1972-73	<b>34-614</b>	Heat Treated. 1 Groove.	
<b>LINE 35</b>	<b>155 C.I. (2.5L) DOHC 24V Duratec Vin G,L</b>				<b>1995-02 V6 BORE - 3.24"/82.3mm</b>
Valve	Exh	1995-02	<b>10-1729</b>	1.023 Head Dia.	
	Int	1995-02	<b>10-1728</b>	1.260 Head Dia. 0.235	
Valve Seat Insert	Exh	1995-02	<b>21-1125-52</b>	0.825T I.D. 1-1/8 O.D. 0.285 Depth, w/ 26mm Valve Head Dia.	
	Int	1995-02	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
Guide	Both	1995-02	<b>30-8560</b>	1.880 OAL	
	Both	1995-02	<b>31-8560</b>	1.890 OAL. 0.2362 I.D. 0.4955 O.D. Mang. Bronze	
Spring	Both	1995-02	<b>32-2476</b>	1.847 Free Length	
Lifter	Both	1995-02	<b>36-2271</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1995-02	<b>38-565-45</b>	Viton. Top Hat.	
Retainer	Both	1995-02	<b>55-6252</b>	0.920 O.D. 6mm Stem	
Expansion Plug Kit		1995-02	<b>97-150</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 36</b>	<b>2676cc (2.7L) DOHC 24V Turbo</b>				<b>2015-16 V6 BORE - 82.8mm/3.26"</b>
No Parts Available			<b>00</b>		
<b>LINE 37</b>	<b>170 C.I. (2.8L) 12V Vin U</b>				<b>1961-72 L6 BORE - 3.50"/88.9mm</b>
Valve	Exh	1965-72	<b>10-1266</b>	1.390 Head Dia. +3, +15 O/S Stem May Be Avail.	
	Exh	1961-64	<b>10-564</b>	1.268 Head Dia. +3 & +15 O/S Stem May Be Avail.	
	Int	1965-72	<b>10-1268</b>	1.651 Head Dia. +15 O/S Stem May Be Avail.	
	Int	1961-64	<b>10-627</b>	1.527 Head Dia. +3 & +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1961-64	<b>20-1375-4</b>	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth w/ 1.268 Valve Head Dia.	
	Exh	1965-72	<b>20-1437-3</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. w/ 1.390 Valve Head	
	Int	1961-64	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.527 Valve Head	
	Int	1965-72	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.651 Valve Head Dia.	
Guide	Both	1961-72	<b>30-9869</b>	1.875 OAL. 0.439 O.D. Spiral I.D. 30-6869 Plain I.D. Also Avail.	
	Both	1961-72	<b>30-9977</b>	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.	
Spring	Both	1961-72	<b>32-715</b>	2.000 Free Length	
	Both	1965-72	<b>32-778</b>	1.828 Free Length	
Keeper	Both	1961-72	<b>34-614</b>	Heat Treated. 1 Groove.	
Lifter	Both	1961-72	<b>36-2083</b>	Hydraulic	
	Both	1961-72	<b>36-872</b>	Mechanical	
Valve Stem Seal	Both	1961-72	<b>38-1062-70</b>	Teflon And Rubber. 1 Ring	
	Both	1961-72	<b>38-255-35</b>	Glass Filled Nylon. Umbrella.	
	Both	1961-72	<b>38-766-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-766-15 Also Avail.	
Expansion Plug Kit		1961-72	<b>97-14</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 38</b>	<b>171 C.I. (2.8L) 12V Vin S</b>				<b>1983-86 V6 BORE - 3.66"/93mm</b>
Valve	Exh	1983-86	<b>10-1300</b>	1.269 Head Dia. +15 O/S Stem May Be Avail.	
	Int	1983-86	<b>10-1285</b>	1.570 Head Dia. +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1983-86	<b>20-1375-4</b>	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 38</b>	<b>171 C.I. (2.8L) 12V Vin S</b>		<b>1983-86 V6</b>	<b>BORE - 3.66"/93mm</b>
Valve Seat Insert	Int	1983-86	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both	1983-86	<b>30-9198</b>	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.
Spring	Both	1983-86	<b>32-1290</b>	2.170 Free Length
Keeper	Exh	1983-86	<b>34-619</b>	Heat Treated. 3 Groove.
	Int	1983-86	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1983-86	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1983-86	<b>38-950-25</b>	Polyacrylic. Metal Clad.
Retainer	Both	1983-86	<b>55-6199</b>	Chrome Moly. 1.250 O.D. 8mm Stem
Expansion Plug Kit		1983-86	<b>97-40</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 39</b>	<b>171 C.I. (2.8L) Vin Z</b>		<b>1974-79 V6</b>	<b>BORE - 3.60"/93mm</b>
Valve	Exh	1974-79	<b>10-1300</b>	1.269 Head Dia. 3 Groove. +15 O/S Stem May Be Avail.
	Int	1974-79	<b>10-1285</b>	1.570 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1974-79	<b>20-1375-1</b>	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.
	Int	1974-79	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both	1974-79	<b>30-9198</b>	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.
Spring	Both	1975-79	<b>32-1126</b>	1.950 Free Length
Keeper	Exh	1974-79	<b>34-619</b>	Heat Treated. 3 Groove.
	Int	1974-79	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1974-79	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1974-79	<b>38-950-25</b>	Polyacrylic. Metal Clad.
Expansion Plug Kit		1974-79	<b>97-40</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 40</b>	<b>177 C.I. (2.9L) OHV 12V Vin T,V</b>		<b>1986-92 V6</b>	<b>BORE - 3.66"/93mm</b>
Valve	Exh	1986-92	<b>10-10386</b>	1.418 Head Dia. 3 Groove. +3, +15 O/S Stem May Be Avail.
	Int	1986-92	<b>10-10385</b>	1.656 Head Dia. 0.3163 Stem. 1 Groove. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1986-92	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1986-92	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both	1986-92	<b>30-9198</b>	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.
Spring	Both	1986-92	<b>32-1290</b>	2.170 Free Length
Keeper	Exh	1986-92	<b>34-619</b>	Heat Treated. 3 Groove.
	Int	1986-92	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1986-92	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1986-92	<b>38-812-45</b>	Viton. Metal Clad.
Retainer	Both	1987-89	<b>55-6199</b>	Chrome Moly. 1.250 O.D. 8mm Stem
Expansion Plug Kit		1986-92	<b>97-109</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 41</b>	<b>2960cc (3.0L) SOHC 12V (Nissan VG30E) Vin W, 1</b>		<b>1993-98 V6</b>	<b>BORE - 3.445"/87.5mm</b>
Valve	Exh	1993-95	<b>10-10282</b>	1.382 Head Dia.
	Exh	1996-98	<b>10-10282S</b>	1.382 Head Dia. Stellite Faced
	Int	1993-98	<b>10-10281</b>	1.657 Head Dia. 0.2744 Stem
Valve Seat Insert	Exh	1993-98	<b>21-1500-53</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Exh	1993-98	<b>21-1500-68</b>	1.179T I.D. 1-1/2 O.D. 0.293 Depth.
	Int	1993-98	<b>21-1750-66</b>	1.460T I.D. 1-3/4 O.D. 0.275 Depth
	Int	1993-98	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
Guide	Exh	1993-98	<b>30-8017</b>	2.500 OAL. Head Must Be Reamed To 0.4793/.4802 For Exh. Guides Prior To Installation

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 41</b>	<b>2960cc (3.0L) SOHC 12V (Nissan VG30E) Vin W, 1</b>			<b>1993-98 V6</b>	<b>BORE - 3.445"/87.5mm</b>
Guide	Exh	1993-98	<b>30-8389</b>	2.500 OAL.	
	Int	1993-98	<b>30-7873</b>	2.315 OAL. Head Must Be Reamed To 0.440/.4408 For Int. Guides Prior To Installation	
	Int	1993-98	<b>30-8388</b>	2.315 OAL.	
Spring	Both	1993-98	<b>32-1400</b>	Inner. 1.725 Free Length	
Keeper	Both	1993-98	<b>34-5007</b>	1 Groove	
Lifter	Both	1993-98	<b>36-2198</b>	Hydraulic	
Valve Stem Seal	Exh	1993-98	<b>38-962-45</b>	Viton. Ring And Spring.	
	Int	1993-95	<b>38-985-55</b>	Viton. Metal Clad. 0.276 Stem	
Expansion Plug Kit		1993-98	<b>97-92</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 42</b>	<b>182 C.I. (3.0L) DOHC 24V Vin 1,G,S Duratec</b>			<b>1996-12 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1996-12	<b>10-1788</b>	1.181 Head Dia. 0.2346 Stem. Exc. Lincoln Vin S	
	Exh	2000-05	<b>10-2246</b>	1.185 Head Dia. 0.215 Stem. Lincoln Vin S	
	Int	1996-12	<b>10-1787</b>	1.378 Head Dia. 0.2356 Stem. Exc. Lincoln Vin S	
	Int	2000-05	<b>10-2245</b>	1.378 Head Dia. 0.216 Stem. Lincoln Vin S	
Valve Seat Insert	Exh	1996-12	<b>21-1250-56</b>	0.905T I.D. 1-1/4 O.D. 0.230 Depth.	
Guide	Both	2000-05	<b>30-3028</b>	1.455 OAL. 0.2175 I.D. Lincoln Vin S.	
	Both	1996-12	<b>30-8560</b>	1.880 OAL. 0.237 I.D. Exc. Lincoln Vin S	
Spring	Both	1999-09	<b>32-2476</b>	1.847 Free Length	
Keeper	Both	1996-12	<b>34-03722</b>	3 Groove. 0.235 Stem	
	Both	2000-05	<b>34-5023</b>	1 Round Groove. Lincoln Vin "S"	
Lifter	Both	1996-12	<b>36-2271</b>	Hydraulic Lash Adjuster. Except Lincoln Vin S	
Valve Stem Seal	Both	1996-12	<b>38-565-45</b>	Viton. Top Hat. 0.236 Stem	
<b>LINE 43</b>	<b>182 C.I. (3.0L) OHV 12V Vin U,V,1,2 Flex</b>			<b>1986-08 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1986-99	<b>10-1535</b>	1.371 Head Dia. 0.3125 Stem Dia. +15 O/S Stem May Be Avail.	
	Exh	2000-08	<b>10-2047</b>	1.371 Head Dia. 0.274 Stem Dia. Incl. "Flex Fuel" Eng	
	Int	1986-99	<b>10-1536</b>	1.661 Head Dia. 0.313 Stem Dia. +3, +15 O/S Stem May Be Avail.	
	Int	2000-08	<b>10-2046</b>	1.661 Head Dia. 0.275 Stem Dia. Incl. "Flex Fuel" Eng	
Valve Seat Insert	Exh	1986-08	<b>20-1437-2</b>	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.	
	Exh	1986-99	<b>20-1437-3</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.	
	Int	1986-08	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.	
Guide	Both	2000-08	<b>30-3048</b>	2.500 OAL. 0.4747 O.D. 0.2768 I.D.	
	Both	2000-08	<b>30-3066</b>	2.200 OAL. 0.4390 O.D. 0.2768 I.D. w/o Seal Boss	
	Both	1986-99	<b>30-9204</b>	2.200 OAL. 0.439 O.D.	
Spring	Both	2000-08	<b>32-04017</b>	1.834 OAL. Conical	
	Both	1986-99	<b>32-1258</b>	1.840 Free Length	
Keeper	Both	2000-08	<b>34-281</b>	3 Groove. 0.274 Stem Dia.	
	Both	1986-99	<b>34-619</b>	Heat Treated. 3 Groove. 0.313 Stem	
Lifter	Both	1992-08	<b>36-2205</b>	Hydraulic Roller	
	Both	1986-91	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron	
Valve Stem Seal	Both	2000-08	<b>38-300-45</b>	Viton. Ring and Band. 0.275 Stem	
	Exh	1986-99	<b>38-936-45</b>	Viton. Ring and Band. For 5/16 Stem Dia..	
Retainer	Both	2000-08	<b>55-6197</b>	Chrome Moly. 0.980 O.D. 7mm Stem	
<b>LINE 44</b>	<b>182 C.I. (3.0L) DOHC 24V Yamaha SHO Vin Y</b>			<b>1989-95 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1989-95	<b>10-10168S</b>	1.180 Head Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 44</b>	<b>182 C.I. (3.0L) DOHC 24V Yamaha SHO Vin Y</b>		<b>1989-95 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Int	1989-95	10-10167	1.378 Head Dia.
Valve Seat Insert	Exh	1989-95	20-1312-3	1.000 I.D. 1-5/16 O.D. 7/32 Depth
	Int	1989-95	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both	1989-95	30-8559	1.575 OAL
Valve Stem Seal		1995-95	38-565-45	Viton. Top Hat.
	Both	1989-95	38-998-45	Viton. Metal Clad.
<b>LINE 45</b>	<b>3198cc (3.2L) DOHC 20V</b>		<b>2015-15 L5</b>	<b>BORE - 92.5mm/3.642"</b>
No Parts Available			00	
<b>LINE 46</b>	<b>195 C.I. (3.2L) DOHC 24V Yamaha SHO Vin P</b>		<b>1993-95 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1993-95	10-10168S	1.180 Head Dia.
	Int	1993-95	10-10167	1.378 Head Dia.
Valve Seat Insert	Exh	1993-95	20-1312-3	1.000 I.D. 1-5/16 O.D. 7/32 Depth
	Int	1993-95	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both	1993-95	30-8559	1.575 OAL
Valve Stem Seal	Both	1993-95	38-998-45	Viton. Metal Clad.
<b>LINE 47</b>	<b>3275cc (3.3L) SOHC (Nissan VG33E) 12V Vin A,T</b>		<b>1999-02 V6</b>	<b>BORE - 91.5mm/3.60"</b>
Valve	Exh	1999-02	10-10282S	1.382 Head Dia. 0.314 Stem
	Int	1999-02	10-10281	1.657 Head Dia. 0.2744 Stem
Valve Seat Insert	Exh	1999-02	21-1500-68	1.179T I.D. 1-1/2 O.D. 0.293 Depth.
	Int	1999-02	21-1812-55	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
Guide	Exh	1999-02	30-8389	2.500 OAL. Std. O.D. 0.474
	Int	1999-02	30-8388	2.315 OAL 0.4345 O.D.
Keeper	Both	1999-02	34-5007	1 Groove
Lifter	Both	1999-02	36-2198	Hydraulic
Valve Stem Seal	Exh	1999-02	38-962-45	Viton. Ring And Spring. 0.314 Stem
	Int	1999-02	38-503-55	Viton. Metal Clad. 0.274 Stem
Expansion Plug Kit		1999-02	97-0230	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 48</b>	<b>200 C.I. (3.3L) 12V Vin B,T,X</b>		<b>1963-83 L6</b>	<b>BORE - 3.60"/93.47mm</b>
Valve	Exh	1965-83	10-1266	1.390 Head Dia. +3, +15 O/S Stem May Be Avail.
	Exh	1963-64	10-564	1.268 Head Dia. +3 & +15 O/S Stem May Be Avail.
	Int	1965-76	10-1268	1.651 Head Dia. +15 O/S Stem May Be Avail.
	Int	1977-83	10-1357	1.751 Head Dia. +3, +15, +30 O/S Stem Avail.
	Int	1963-64	10-627	1.527 Head Dia. +3 & +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1963-64	20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth w/ 1.268 Valve Head Dia.
	Exh	1965-83	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth w/ 1.390 Valve Head Dia.
	Int	1963-64	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.527 Valve Head
	Int	1965-76	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.651 Valve Head Dia.
	Int	1977-83	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.751 Head Dia.
Guide	Both	1963-83	30-9869	1.875 OAL. 0.439 O.D. Spiral I.D. 30-6869 Plain I.D. Also Avail.
	Both	1963-83	30-9977	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Spring	Both	1963-83	32-778	1.828 Free Length
Keeper	Both	1963-83	34-614	Heat Treated. 1 Groove.
Lifter	Both	1963-83	36-2083	Hydraulic

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 48</b>	<b>200 C.I. (3.3L) 12V Vin B,T,X</b>		<b>1963-83 L6</b>	<b>BORE - 3.60"/93.47mm</b>
Valve Stem Seal	Both	1963-83	<b>38-1062-70</b>	Teflon And Rubber. 1 Ring
	Both	1963-83	<b>38-255-35</b>	Glass Filled Nylon. Umbrella.
	Both	1963-83	<b>38-766-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-766-15 Also Avail.
Expansion Plug Kit		1963-83	<b>97-14</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 49</b>	<b>207 C.I. (3.4L) DOHC 32V SHO Vin N</b>		<b>1996-99 V8</b>	<b>BORE - 3.2"/81.3mm</b>
Valve	Exh	1996-99	<b>10-1939S</b>	1.062 Head Dia.
	Int	1996-99	<b>10-1938</b>	1.258 Head Dia.
Guide	Both	1996-99	<b>30-8559</b>	1.575 OAL
<b>LINE 50</b>	<b>3496cc (3.5L) DOHC 24V Vin 8,C,G,T,W</b>		<b>2007-16 V6</b>	<b>BORE - 92.5mm/3.64"</b>
Valve	Exh	2007-15	<b>10-13226</b>	1.220 Head Dia. Duratec
	Exh	2010-15	<b>10-13345S</b>	1.220 Head Dia. Ecoboost
	Int	2007-15	<b>10-13225</b>	1.457 Head Dia. Ecoboost, Duratec
Guide	Both	2010-15	<b>30-3170</b>	1.395 OAL
Spring	Both	2007-15	<b>32-5009</b>	1.910 Free Length
	Both	2010-15	<b>32-5019</b>	2.176 Free Length
Keeper	Both	2007-15	<b>34-5024</b>	1 Round Groove. 0.215 Stem
Valve Stem Seal	Both	2007-15	<b>38-6125-55</b>	Top Hat. Viton
<b>LINE 51</b>	<b>215 C.I. (3.5L)</b>		<b>1952-53 L6</b>	<b>BORE - 3.56"/90.5mm</b>
Valve	Exh	1952-53	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
Guide	Both	1952-53	<b>30-6105</b>	2.500 OAL. 0.3440 I.D. 0.5020 O.D. Plain I.D. Conversion Guide,
Spring	Exh	1952-53	<b>32-611</b>	2.090 Free Length
Keeper	Exh	1952-53	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Exh	1952-53	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia. May Need To Machine Guide
	Exh	1952-53	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Push Rod		1952-53	<b>74-6080</b>	9.605 Length
<b>LINE 52</b>	<b>221 C.I. (3.6L) 16V</b>		<b>1962-63 V8</b>	<b>BORE - 3.50"/88.9mm</b>
Valve Seat Insert	Exh	1962-63	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1962-63	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both	1962-63	<b>30-9872</b>	2.281 OAL. Spiral I.D. 30-6872 Plain I.D. Also Avail.
	Both	1962-63	<b>30-9977</b>	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Spring	Both	1962-63	<b>32-611</b>	2.090 Free Length
Keeper	Both	1962-63	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1962-63	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1962-63	<b>38-1062-70</b>	Teflon And Rubber. 1 Ring
	Both	1962-63	<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
Rocker Component	Both	1962-63	<b>40-2849</b>	Rocker Arm. Cast. w/o Rails
		1962-63	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Push Rod		1962-63	<b>74-6279</b>	6.804 Length
Expansion Plug Kit		1962-63	<b>97-17</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 53</b>	<b>223 C.I. (3.7L)</b>		<b>1954-64 L6</b>	<b>BORE - 3.625"/92.1mm</b>
Valve	Exh	1954-64	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int	1954-64	<b>10-373</b>	1.780 Head Dia.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 53</b>	<b>223 C.I. (3.7L)</b>			<b>1954-64 L6 BORE - 3.625"/92.1mm</b>
Valve Seat Insert	Exh	1954-64	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1954-64	<b>20-1875-6</b>	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Both	1954-64	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
Spring	Both	1954-64	<b>32-611</b>	2.090 Free Length
Keeper	Both	1954-64	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1954-64	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1954-64	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1954-61	<b>38-522-25</b>	Polyacrylic. Shallow Umbrella.
	Both	1954-64	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1954-64	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1954-64	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Push Rod		1954-64	<b>74-6080</b>	9.605 Length
Expansion Plug Kit		1954-64	<b>97-15</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 54</b>	<b>226 C.I. (3.7L) L-Head</b>			<b>1946-51 L6 BORE - 3.30"/83.8mm</b>
Guide	Both	1947-51	<b>30-1613</b>	2.188 OAL 0.3435 I.D.
Keeper	Both	1947-51	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1946-51	<b>36-2032</b>	Mechanical
<b>LINE 55</b>	<b>3726cc (3.7L) DOHC 24V Vin K,M,R</b>			<b>2009-16 V6 BORE - 95.5mm/3.76"</b>
Valve	Exh	2009-15	<b>10-13226</b>	1.220 Head Dia.
	Int	2009-15	<b>10-13225</b>	1.457 Head Dia.
Spring	Both	2009-14	<b>32-5009</b>	1.910 Free Length
Keeper	Both	2009-15	<b>34-5024</b>	1 Round Groove. 0.215 Stem
Valve Stem Seal	Both	2009-15	<b>38-6125-55</b>	Top Hat. Viton
<b>LINE 56</b>	<b>232 C.I. (3.8L) OHV 12V Vin C,R,3,4,6</b>			<b>1982-07 V6 BORE - 3.81"/96.8mm</b>
Valve	Exh	1982-95	<b>10-1469</b>	1.460 Head Dia. 4 Groove. +3, +15 O/S Stem May Be Avail.
	Exh	1996-07	<b>10-1791</b>	1.461 Head Dia. 0.274 Stem Dia.
	Int	1982-95	<b>10-1470</b>	1.782 Head Dia. 4 Groove. 0.3419 Stem Dia. +3 & +5 & +15 O/S Stem May Be Avail.
	Int	1996-07	<b>10-1789</b>	1.861 Head Dia. 0.275 Stem Dia.
	Int	1996-99	<b>10-1790</b>	1.782 Head Dia. 0.275 Stem Dia.
Valve Seat Insert	Exh	1996-07	<b>21-1562-67</b>	1.255T I.D. 1-9/16 O.D. 0.319 Depth. Check Depth.
	Exh	1982-99	<b>21-1625-54</b>	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
	Int	1982-99	<b>21-1875-50</b>	1.640 I.D. 1-7/8 O.D. 0.280 Depth.
Guide	Both	1982-95	<b>30-8545</b>	2.250 OAL. 0.344 I.D. 0.499 O.D. Knock Out Style
	Both	1982-95	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 0.502 O.D. Head Needs Reaming. 30-5607 Plain I.D. Also Avail.
	Exh	1996-07	<b>30-8574</b>	2.200 OAL. 0.2765 I.D. 0.4955 O.D.
	Int	1996-07	<b>30-8575</b>	2.050 OAL. 0.2765 I.D. 0.4955 O.D.
Spring	Both	1982-88	<b>32-1227-D</b>	2.101 Free Length. w/ Damper
	Both	1989-98	<b>32-1266-D</b>	1.970 Free Length. w/ Damper
	Both	1996-07	<b>32-2475</b>	1.975 Free Length. Conical.
Keeper	Both	1996-07	<b>34-281</b>	3 Round Grooves
	Both	1982-95	<b>34-620</b>	Heat Treated. 4 Groove
Lifter	Both	1989-07	<b>36-2205</b>	Hydraulic Roller.
	Both	1982-88	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 56</b>	<b>232 C.I. (3.8L) OHV 12V Vin C,R,3,4,6</b>		<b>1982-07 V6</b>	<b>BORE - 3.81"/96.8mm</b>
Valve Stem Seal	Both	1998-00	<b>38-124-45</b>	Top Hat. Viton. 0.637 Height
	Both	2001-07	<b>38-224-45</b>	Top Hat. Viton. Height 0.837
	Both	1996-98	<b>38-309-45</b>	Viton. Metal Clad. Use w/ 0.275 Stem Dia. Dual Port
	Both	1982-88	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.
	Exh	1982-95	<b>38-810-45</b>	Viton. Ring And Band. Use w/ 0.341 Stem Dia.
	Int	1989-95	<b>38-108-45</b>	Viton. Metal Clad. Use w/ 0.341 Stem Dia.
Expansion Plug Kit		1982-07	<b>97-94</b>	Steel Kit. Brass Kit Avail. In Suffix -B
<b>LINE 57</b>	<b>239 (3.9L) L-Head</b>		<b>1932-53 V8</b>	<b>BORE - 3.188"/80.9mm</b>
Valve	Both	1948-51	<b>10-212</b>	1.510 Head Dia. 4.819 Length
Valve Seat Insert	Int	1946-53	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5,10,15,20,30 O/S Avail.
	Exh	1946-53	<b>22-1640-1</b>	1-3/8 I.D. 1.640 O.D. 1/4 Depth
Guide	Both	1948-53	<b>30-1614</b>	2.210 OAL. 0.3435 I.D.
Spring	Both	1946-53	<b>32-611</b>	2.090 Free Length
Keeper	Both	1946-51	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1946-	<b>36-2032</b>	Mechanical
<b>LINE 58</b>	<b>239 C.I. (3.9L)</b>		<b>1954-55 V8</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1954-55	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int	1954-55	<b>10-376</b>	1.647 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Int	1954-55	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh	1954-55	<b>22-1640-1</b>	1-3/8 I.D. 1.640 O.D. 1/4 Depth
Guide	Exh	1954-55	<b>30-9604</b>	2.625 OAL. Spiral 0.344 I.D. 30-5604 Plain I.D. Also Avail.
	Int	1954-55	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1954-55	<b>32-611</b>	2.090 Free Length. w/o Rotator
Keeper	Both	1954-55	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1954-55	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1954-55	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
Expansion Plug Kit		1954-55	<b>97-20</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 59</b>	<b>240 C.I. (3.9L) Vin B, E</b>		<b>1965-74 L6</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1971-74	<b>10-1177S</b>	1.560 Head Dia. Taxi & Police From L-18, +15 O/S Stem May Be Avail.
	Exh	1965-74	<b>10-1358</b>	1.560 Head Dia. Exc. 1967-72 Taxi & Police. +3, +15 O/S Stem May Be Avail.
	Exh	1967-70	<b>10-965S</b>	1.560 Head Dia. Taxi & Police To L-18. +15 O/S Stem Avail.
	Int	1967-74	<b>10-1120</b>	1.780 Head Dia. 1967-70 Taxi & Police, All 1971-72. +3, +15 O/S Stem May Be Avail.
	Int	1965-74	<b>10-963</b>	1.781 Head Dia. Exc. Taxi & Police. +3 & +15 O/S Stem Avail.
Valve Seat Insert	Exh	1965-74	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Int	1965-74	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1965-74	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1965-74	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1965-74	<b>32-807</b>	1965-67 Int. Only, 1968-72 Both; 1.990 Free Length w/o Rotator
	Both	1965-74	<b>32-812</b>	65-67: Exh Only. 1.875 Free Length. Use w/o Rotator
Keeper	Both	1965-74	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1965-74	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1965-74	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1965-74	<b>38-1065-70</b>	Teflon And Rubber.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 59</b>	<b>240 C.I. (3.9L) Vin B, E</b>		<b>1965-74 L6</b>	<b>BORE - 4.00"/101.6mm</b>
Valve Stem Seal	Both	1965-74	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1965-74	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1965-74	<b>38-259-35</b>	Glass Filled Nylon. Umbrella.
	Both	1965-74	<b>38-911-25</b>	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
	Both	1965-74	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Rocker Component	Both	1965-74	<b>40-2876</b>	Rocker Arm. Cast
Rocker Kit	Both	1965-74	<b>41-2600</b>	1 40-2876, 1 42-1771 Smooth Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1965-74	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Push Rod		1965-72	<b>74-6306</b>	10.136 Length
Expansion Plug Kit		1965-74	<b>97-16</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 60</b>	<b>242 C.I. (3.9L) DOHC 32V Vin A</b>		<b>2000-06 V8</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	2000-06	<b>10-2193</b>	1.215 Head Dia.
	Int	2000-06	<b>10-2192</b>	1.378 Head Dia.
Valve Stem Seal	Both	2000-06	<b>38-6120-55</b>	Viton. Top Hat.
<b>LINE 61</b>	<b>244 C.I. (4.0L) OHV 12V VGE4 German Vin X</b>		<b>1990-01 V6</b>	<b>BORE - 3.95"/100.33mm</b>
Valve	Exh	1990-01	<b>10-10388</b>	1.358 Head Dia. +3 & +10 & +15 O/S Stem May Be Avail. 3 Groove
	Int	1990-01	<b>10-10387</b>	1.713 Head Dia. +3 & +10 & +15 O/S Stem May Be Avail. Single Groove
Valve Seat Insert	Exh	1990-01	<b>20-1437-2</b>	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1990-01	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both	1990-01	<b>30-9198</b>	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.
Spring	Both	1990-01	<b>32-1684</b>	2.129 Free Length.
Keeper	Exh	1990-01	<b>34-00515</b>	3 Round Grooves
	Int	1990-01	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1990-01	<b>36-2244</b>	Hydraulic Roller.
Valve Stem Seal	Both	1990-01	<b>38-812-45</b>	Viton. Metal Clad.
Rocker Component	Both	1990-01	<b>40-1807</b>	Rocker Arm. Cast. OEM # F0TZ6564A
Retainer	Both	1990-01	<b>55-6199</b>	Chrome Moly. 1.250 O.D. 8mm Stem
Expansion Plug Kit		1990-01	<b>97-134</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 62</b>	<b>245 C.I. (4.0L) SOHC 12V Vin E,K,N</b>		<b>1997-11 V6</b>	<b>BORE - 3.95"/100.4mm</b>
Valve	Exh	1997-11	<b>10-1914</b>	1.535 Head Dia.
	Int	1997-11	<b>10-1913</b>	1.811 Head Dia. 0.275 Stem. 3 Groove
Valve Seat Insert	Exh	1997-11	<b>21-1625-54</b>	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
	Int	1997-11	<b>21-1875-50</b>	1.640 I.D. 1-7/8 O.D. 0.280 Depth.
Guide	Both	1997-10	<b>30-8663</b>	1.740 OAL. Incl. Lock Ring
Spring	Both	1997-11	<b>32-2302</b>	1.694 Free Length.
Keeper	Both	1997-11	<b>34-281</b>	3 Groove
Lifter	Both	1997-11	<b>36-7005</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1997-11	<b>38-292-45</b>	Viton. Top Hat.
Expansion Plug Kit		1997-11	<b>97-148</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 63</b>	<b>250 C.I. (4.1L) OHV Vin C, L</b>		<b>1969-80 L6</b>	<b>BORE - 3.60"/93.47mm</b>
Valve	Exh	1969-80	<b>10-1266</b>	1.390 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1969-76	<b>10-1268</b>	1.651 Head Dia. +15 O/S Stem May Be Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 63</b>	<b>250 C.I. (4.1L) OHV Vin C, L</b>		<b>1969-80 L6</b>	<b>BORE - 3.60"/93.47mm</b>
Valve	Int	1977-80	10-1357	1.751 Head Dia. +3, +15, +30 O/S Stem Avail.
Valve Seat Insert	Exh	1969-80	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1969-76	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.651 Valve Head Dia.
	Int	1977-80	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.750 Head Dia.
Guide	Both	1969-80	30-9869	1.875 OAL. 0.439 O.D. Spiral I.D. 30-6869 Plain I.D. Also Avail.
	Both	1969-80	30-9977	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Spring	Both	1969-80	32-778	1.828 Free Length
Keeper	Both	1969-80	34-614	Heat Treated. 1 Groove.
Lifter	Both	1969-80	36-2083	Hydraulic
Valve Stem Seal	Both	1969-80	38-1062-70	Teflon And Rubber. 1 Ring
	Both	1969-80	38-766-25	Polyacrylic. Umbrella. Nitrile Matl. 38-766-15 Also Avail.
Expansion Plug Kit		1969-80	97-14	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 64</b>	<b>255 C.I. (4.2L) OHV 16V Vin D</b>		<b>1980-82 V8</b>	<b>BORE - 3.60"/93.47mm</b>
Valve	Exh	1980-82	10-1135	1.451 Head Dia. Wafer Welded Tip Does Not Require A Wear Cap. +3, 15, 30 O/S Stem May Be Avail.
	Int	1980-82	10-1416	1.682 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1980-82	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1980-82	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both	1980-82	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Exh	1980-82	32-1086	1.923 Free Length.
	Int	1980-82	32-1175	2.040 Free Length
Keeper	Both	1980-82	34-555	1 Square Groove. Heat Treated.
Lifter	Both	1980-82	36-900CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1980-82	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1980-82	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1980-82	38-256-35	Glass Filled Nylon. Umbrella.
	Both	1980-82	38-923-35	Glass Filled Nylon. Umbrella.
	Both	1980-82	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1980-82	38-951-25	Polyacrylic. 2-Ring.
Rocker Component	Both	1980-82	40-2889	Rocker Arm, Stamped
Rocker Kit	Both	1980-82	41-2548	1 40-2889, 1 42-1741 Bolt, 1 42-1776 Pivot
Push Rod		1980-82	74-6281	6.876 Length
Expansion Plug Kit		1980-82	97-17	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 65</b>	<b>256 C.I. (4.2L) OHV 12V Vin 2</b>		<b>1997-08 V6</b>	<b>BORE - 3.81"/96.8mm</b>
Valve	Exh	1997-08	10-1791	1.461 Head Dia. 0.274 Stem Dia.
	Int	1997-08	10-1789	1.861 Head Dia. 0.275 Stem Dia.
Valve Seat Insert	Exh	1997-08	21-1562-67	1.255T I.D. 1-9/16 O.D. 0.319 Depth. Check Depth, May Need Machining.
Guide	Exh	1997-08	30-8574	2.200 OAL
	Int	1997-08	30-8575	2.050 OAL
Spring	Both	1997-08	32-2475	1.975 Free Length. Conical
Keeper	Both	1997-08	34-281	3 Round Grooves
Lifter	Both	1997-08	36-2205	Hydraulic Roller
Valve Stem Seal	Both	1998-00	38-124-45	Top Hat. Viton. 0.637 Height
	Both	2001-08	38-224-45	Top Hat. Viton. Height 0.837

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 65</b>	<b>256 C.I. (4.2L) OHV 12V Vin 2</b>		<b>1997-08 V6</b>	<b>BORE - 3.81"/96.8mm</b>
Valve Stem Seal	Both	1997-98	<b>38-309-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1997-08	<b>97-94</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 66</b>	<b>256 C.I. (4.2L) 16V</b>		<b>1954-55 V8</b>	<b>BORE - 3.62"/92mm</b>
Valve	Exh	1954-55	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int	1954-55	<b>10-373</b>	1.780 Head Dia.
Valve Seat Insert	Int	1954-55	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Exh	1954-55	<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Also Avail. In Nickel (-N) Matl.
Guide	Exh	1954-55	<b>30-9604</b>	2.625 OAL. Spiral 0.344 I.D. 30-5604 Plain I.D. Also Avail.
	Int	1954-55	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1954-55	<b>32-611</b>	2.090 Free Length
Keeper	Both	1954-55	<b>34-613</b>	1 Groove. Heat Treated
<b>LINE 67</b>	<b>255 C.I. (4.2L) L-Head</b>		<b>1948-53 V-8</b>	<b>BORE - 3.188"/81mm</b>
Valve	Both	1948-51	<b>10-212</b>	1.510 Head Dia. 4.819 OAL
Valve Seat Insert	Int	1948-53	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh	1948-53	<b>22-1640-1</b>	1-3/8 I.D. 1.640 O.D. 1/4 Depth
Guide	Both	1949-53	<b>30-1613</b>	2.188 OAL. 0.3435 I.D. 0.6575 O.D.
	Both	1948-53	<b>30-1614</b>	2.210 OAL. 0.3435 I.D. 1.031 O.D.
Keeper	Both	1948-53	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1948-53	<b>36-2032</b>	Mechanical
<b>LINE 68</b>	<b>260 C.I. (4.3L) 16V</b>		<b>1962-65 V8</b>	<b>BORE - 3.80"/96.5mm</b>
Valve	Exh	1964-65	<b>10-742</b>	1.450 Head Dia. +3 & +15 & +30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1962-63	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Exh	1964-65	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1962-63	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1964-65	<b>20-1750-1</b>	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
Guide	Both	1962-65	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Both	1962-65	<b>30-9869</b>	1.875 OAL. Spiral I.D. 30-6869 Plain I.D. Also Avail.
	Both	1962-65	<b>30-9977</b>	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Spring	Both	1962-65	<b>32-611</b>	2.090 Free Length
Keeper	Both	1964-65	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1962-65	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1962-65	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1962-63	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Rocker Component	Both	1963-65	<b>40-2849</b>	'63 - 10-4-65. Rocker Arm. Cast. w/o Rails
		1962-64	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Push Rod		1962-64	<b>74-6279</b>	6.804 Length
Expansion Plug Kit		1962-65	<b>97-17</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 69</b>	<b>262 C.I. (4.3L)</b>		<b>1961-64 L6</b>	<b>BORE - 3.72"/94.4mm</b>
Valve Seat Insert	Int	1961-64	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Exh	1961-64	<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. +5, 10, 20, 30, 40 O/S Avail. Replaces OEM # C4TZ-6057-A & D1TZ-6057-A.
Guide	Exh	1961-64	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int	1961-64	<b>30-9964</b>	2.250 OAL. Spiral I.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 69</b>	<b>262 C.I. (4.3L)</b>			<b>1961-64 L6 BORE - 3.72"/94.4mm</b>
Spring	Both	1961-64	<b>32-611</b>	2.090 Free Length
Keeper	Both	1961-64	<b>34-613</b>	1 Groove. Heat Treated
Expansion Plug Kit		1961-64	<b>97-15</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 70</b>	<b>272 C.I. (4.5L)</b>			<b>1955-62 V8 BORE - 3.625"/92.1mm</b>
Valve	Exh	1955-62	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int	1955-58	<b>10-373</b>	1.780 Head Dia.
	Int	1960-62	<b>10-376</b>	1.647 Head Dia. +15 O/S Stem May Be Avail.
	Int	1957-59	<b>10-494</b>	1.925 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1956-58	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Exh	1955-57	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1955-56	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.780 Valve Head Dia.
	Int	1957-59	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.925 Valve Head Dia.
Guide	Both	1955-58	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Exh	1956-58	<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Exh	1956-58	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1955-57	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1955-58	<b>32-611</b>	2.090 Free Length
Keeper	Both	1955-62	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1955-62	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1955-62	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1955-62	<b>38-522-25</b>	Polyacrylic. Shallow Umbrella.
	Both	1955-57	<b>38-810-45</b>	Viton. Ring And Band.
	Both	1955-62	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1955-62	<b>97-20</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 71</b>	<b>281 C.I. (4.6L) SOHC 16V Vin 6,9,V,W,X CNG Gas/Flex</b>			<b>1992-14 V8 BORE - 3.50"/90.2mm</b>
Valve	Exh	1992-99	<b>10-1698</b>	1.339 Head Dia. +3 & +15 O/S Stem May Be Avail. Exc. CNG & LPG, Use Stellite -S Suffix
	Exh	2000-14	<b>10-1925</b>	1.418 Head Dia. 4.681 Length. Exc. CNG & LPG, Use Stellite -S Suffix
	Int	1992-99	<b>10-1699</b>	1.752 Head Dia. +3 & +15 O/S Stem May Be Avail. Exc. CNG & LPG, Use Stellite -S Suffix
	Int	2000-14	<b>10-1924</b>	1.752 Head Dia. 4.752 Length. Exc. CNG & LPG, Use Stellite -S Suffix.
Valve Seat Insert	Exh	1992-99	<b>21-1375-61</b>	1.130T I.D. 1-3/8 O.D. 0.304 Depth Exc. CNG and LPG.
	Exh	2000-14	<b>21-1500-50</b>	1.203T I.D. 1-1/2 O.D. 0.280 Depth. Machine to Depth. Exc. CNG and LPG, Use Nickel -N Suffix
	Int	1992-14	<b>21-1875-56</b>	1.600T I.D. 1-7/8 O.D. 0.252 Depth. Exc CNG and LPG.
Guide	Both	1994-14	<b>30-8274</b>	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
	Both	1992-93	<b>30-8675</b>	1.930 OAL. Early Type w/ Stepped O.D.
Spring	Both	1992-99	<b>32-1615</b>	1.976 Free Length. Conical
	Both	2000-14	<b>32-2487</b>	2.101 Free Length. Conical
Keeper	Both	1992-14	<b>34-281</b>	3 Round Grooves
Lifter	Both	1992-14	<b>36-2271</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1994-14	<b>38-111-45</b>	Viton. Top Hat. Use w/ Straight Guide
	Both	1992-93	<b>38-843-45</b>	Viton. Top Hat. Use w/ Stepped Guide
Retainer	Both	2000-14	<b>55-6194</b>	Chrome Moly. 0.890 O.D. 7mm Stem
	Both	1996-99	<b>55-6294</b>	Chrome Moly. 1.040 O.D. 7mm Stem
Expansion Plug Kit		1992-96	<b>97-122</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 71</b>	<b>281 C.I. (4.6L) SOHC 16V Vin 6,9,V,W,X CNG Gas/Flex</b>		<b>1992-14 V8</b>	<b>BORE - 3.50"/90.2mm</b>
Expansion Plug Kit		1997-14	97-149	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 72</b>	<b>281 C.I. (4.6L) SOHC 24V Vin H,8</b>		<b>2005-10 V8</b>	<b>BORE - 3.55"/90.2mm</b>
Valve	Exh	2005-10	10-2119	1.476 Head Dia. 1V per Cyl.
	Exh	2006-07	10-2265	1.476 Head Dia. 1V per Cyl. Unleaded Fuel Only
	Int	2005-10	10-2118	1.331 Head Dia. 2V per Cyl.
Valve Seat Insert	Exh	2005-10	21-1500-73	1.230 I.D. 1-1/2 O.D. 0.278 Depth
	Int	2005-10	21-1375-50	1.109T I.D. 1-3/8 O.D. 0.255 Depth. Ser. 1-4
Guide	Both	2005-10	30-3047	1.725 OAL. 0.436 O.D. 0.2371 I.D.
Spring	Both	2005-10	32-04029	2.174 Free Length.
Keeper	Both	2005-10	34-03722	3 Round Grooves
Lifter	Both	2005-10	36-2305	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2005-10	38-905-45	Viton. Top Hat.
Rocker Component	Both	2005-10	40-2930	Cam Follower
<b>LINE 73</b>	<b>281 C.I. (4.6L) DOHC 32V Vin A,H,R,V,Y</b>		<b>1993-05 V8</b>	<b>BORE - 3.55"/90.2mm</b>
Valve	Exh	1993-05	10-1708	1.181 Head Dia.
	Int	1993-05	10-1709	1.456 Head Dia.
Valve Seat Insert	Exh	1993-05	21-1250-61	0.976 I.D. 1-1/4 O.D. 0.180 Depth
	Int	1993-05	21-1500-79	1.295 I.D. 1-1/2 O.D. 0.262 Depth.
Guide	Both	1993-05	30-8274	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
Spring	Both	1993-95	32-1615	1.968 Free Length. Conical
	Both	1996-05	32-2300	1.736 Free Length. Conical
Keeper	Both	1993-05	34-281	3 Round Grooves
Lifter	Both	1993-05	36-2271	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1995-05	38-111-45	Viton. Top Hat. Height 0.804
	Both	1993-05	38-46-45	Viton. Top Hat. Height 0.646
	Both	1993-95	38-843-45	Viton. Top Hat (Early)
Retainer	Both	1996-05	55-6194	Chrome Moly. 0.890 O.D. 7mm Stem
Expansion Plug Kit		1993-05	97-122	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 74</b>	<b>289 C.I. (4.7L) 16V Vin C</b>		<b>1963-68 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1966-68	10-1000	1.451 Head Dia. Exc. Special 4BC Taxi & Police, 0.360 Tip To Groove. +3, 15 O/S Stem May Be Avail.
	Exh	1963-65	10-742	1.450 Head Dia. Exc. Special 4BC Taxi & Police. 0.240 Tip To Groove. +3 & +15 & +30 O/S Stem May Be Avail.
	Int	1966-68	10-1001	1.781 Head Dia. Exc. Special 4BC Taxi & Police, +3, +15 O/S Stem May Be Avail. 0.360 Tip To Groove
	Int	1964-65	10-947	1.781 Head Dia. Exc. Special 4BC Taxi & Police. 0.240 Tip To Groove. +3 & +15 & +30 O/S Stem Avail.
Valve Seat Insert	Exh	1963-68	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1963-64	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. To Mid 1964. w/ 1.670 Valve Head Dia.
	Int	1963-68	20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.781 Valve Head Dia.
Guide	Both	1963-68	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1963-66	32-611	To L-10 Change 1966, 2.090 Free Length
	Both	1963-67	32-786-D	Special, 2.047 Free Length
	Both	1966-67	32-867	After L-10 Change 1966, To L-14 Change 1967, 1.860 Free Length
	Both	1967-67	32-902	After L14 Change 1967, 1.970 Free Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 74</b>	<b>289 C.I. (4.7L) 16V Vin C</b>		<b>1963-68 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Spring	Both	1968-68	<b>32-906</b>	2.020 Free Length
Keeper	Both	1963-68	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1963-68	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1963-68	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1963-68	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1963-68	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1963-68	<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
	Both	1963-68	<b>38-916-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-916-15 Also Avail.
	Both	1963-68	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1963-65	<b>40-2849</b>	Rocker Arm. Cast. w/o Rails
	Both	1963-68	<b>40-2886</b>	Rocker Arm. Cast w/ Rails
Rocker Kit	Both	1966-68	<b>41-2610</b>	From 10-65. 1 40-2886, 1 42-1772 Grooved Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1963-68	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Push Rod		1963-68	<b>74-6279</b>	6.804 Length
Expansion Plug Kit		1963-68	<b>97-17</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 75</b>	<b>292 C.I. (4.8L)</b>		<b>1955-64 V8</b>	<b>BORE - 3.75"/95.2mm</b>
Valve	Exh	1955-64	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int	1955-56	<b>10-373</b>	1.780 Head Dia.
	Int	1960-64	<b>10-376</b>	1.647 Head Dia. +15 O/S Stem May Be Avail.
	Int	1957-59	<b>10-494</b>	1.925 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1955-64	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1960-64	<b>20-1750-3</b>	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth w/ 1.647 Valve Head.
	Int	1955-56	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.780 Valve Head Dia.
	Int	1957-59	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.925 Valve Head Dia.
Guide	Both	1955-64	<b>30-9105</b>	2.500 OAL. Spiral 0.344 I.D. 30-6105 Plain I.D. Also Avail.
	Exh	1955-64	<b>30-9604</b>	2.625 OAL. Spiral 0.344 I.D. 30-5604 Plain I.D. Also Avail.
	Int	1955-64	<b>30-9606</b>	2.375 OAL. Spiral 0.344 I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1955-64	<b>32-611</b>	2.090 Free Length
Keeper	Both	1955-64	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1955-64	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1955-64	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1955-64	<b>38-911-25</b>	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
	Both	1955-64	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1955-64	<b>97-20</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 76</b>	<b>300 C.I. (4.9L) Heavy Duty 12V</b>		<b>1965-79 L6</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1965-79	<b>10-1177S</b>	1.560 Head Dia. 1 Groove, 1971-74 All, 1975-79 E-F150/350, P350/500, B-F500, +15 O/S Stem May Be Avail.
	Exh	1965-70	<b>10-965S</b>	1.560 Head Dia. 1 Groove. +15 O/S Stem Avail.
	Int	1965-79	<b>10-1120</b>	1.780 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1965-79	<b>20-1687-1N</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth. Non-Magnetic Nickel
	Int	1965-79	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1965-79	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1965-79	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1965-79	<b>32-812</b>	w/o Rotator. 1.875 Free Length



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 76</b>	<b>300 C.I. (4.9L) Heavy Duty 12V</b>			<b>1965-79 L6 BORE - 4.00"/101.6mm</b>
Spring	Exh	1965-79	<b>32-807</b>	1.990 Free Length. Use w/ Rotator
Keeper	Both	1965-79	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1965-79	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1965-79	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1965-79	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1965-79	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1965-79	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1965-79	<b>38-253-45</b>	Viton. Umbrella.
	Both	1965-79	<b>38-259-35</b>	Glass Filled Nylon. Umbrella.
	Both	1965-79	<b>38-911-25</b>	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
	Both	1965-79	<b>38-925-25</b>	Polyacrylic. Ring And Band. Guide O.D. 0.562
Rocker Component	Both	1965-84	<b>40-2876</b>	Rocker Arm. Cast
Rocker Kit	Both	1965-79	<b>41-2600</b>	1 40-2876, 1 42-1771 Smooth Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Retainer	Both	1965-79	<b>55-6179</b>	Chrome Moly. 1.330 O.D. 11/32 Stem
Push Rod		1965-79	<b>74-6306</b>	10.136 Length
Expansion Plug Kit		1965-79	<b>97-16</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 77</b>	<b>300 C.I. (4.9L) Light Duty</b>			<b>1965-96 L6 BORE - 4.00"/101.6mm</b>
Valve	Exh	1971-82	<b>10-1177S</b>	1.560 Head Dia. +15 O/S Stem May Be Avail.
	Exh	1965-86	<b>10-1358</b>	1.560 Head Dia. 4.810 OAL. Exc. 1969-76, For 1977-86 Fits E-F100. +3, +15 O/S Stem May Be Avail.
	Exh	1985-96	<b>10-1504</b>	1.560 Head Dia. 4.750 OAL. U-150, E-F150/350 Under 8500 Lbs. GVW. +3, 15, 30 O/S Stem Avail.
	Exh	1969-70	<b>10-965S</b>	1.560 Head Dia. +15 O/S Stem Avail.
	Int	1971-86	<b>10-1120</b>	1.780 Head Dia. 4.810 OAL, 1971-74 All, 1985-86 E-F250/350 Over 8500 Lbs. GVW. +3, +15 O/S Stem May Be Avail.
	Int	1985-96	<b>10-1505</b>	1.781 Head Dia. 4.750 OAL. U150, E-F150/350 Under 8500 Lbs. GVW. +3, 15, 30 O/S Stem May Be Avail.
	Int	1965-70	<b>10-963</b>	1.781 Head Dia. +3 & +15 O/S Stem Avail.
Valve Seat Insert	Exh	1965-86	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Exh	1987-96	<b>20-1687-5</b>	1-3/8 I.D. 1-11/16 O.D. 7/32 Depth.
	Int	1965-96	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1965-96	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1965-96	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1985-96	<b>32-1244</b>	1.970 Free Length
	Both	1965-83	<b>32-812</b>	1.875 Free Length. Use w/ Rotator
	Exh	1984-86	<b>32-1242</b>	1.820 Free Length
	Exh	1985-96	<b>32-1245</b>	1.785 Free Length
	Exh	1965-83	<b>32-807</b>	1.990 Free Length. Use w/o Rotator
	Int	1984-84	<b>32-1360</b>	100/500, Bronco. 1.967 Free Length
Keeper	Both	1965-96	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1965-96	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rotator / Retainer	Both	1977-96	<b>37-6514</b>	Rotator. OEM # D9TZ6514A
Valve Stem Seal	Both	1965-96	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1965-96	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1965-96	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1965-96	<b>38-253-45</b>	Viton. Umbrella.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 77</b>	<b>300 C.I. (4.9L) Light Duty</b>			<b>1965-96 L6 BORE - 4.00"/101.6mm</b>
Valve Stem Seal	Both	1965-86	<b>38-259-35</b>	Glass Filled Nylon. Umbrella.
	Both	1965-86	<b>38-911-25</b>	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
	Both	1965-96	<b>38-925-25</b>	Polyacrylic. Ring And Band. Guide O.D. 0562
Rocker Component	Both	1985-96	<b>40-2710</b>	Rocker Arm. Stamped
	Both	1965-84	<b>40-2876</b>	Rocker Arm. Cast
Rocker Kit	Both	1965-84	<b>41-2600</b>	1 40-2876, 1 42-1771 Smooth Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1965-96	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Retainer	Both	1965-96	<b>55-6179</b>	Chrome Moly. 1.330 O.D. 11/32 Stem
Push Rod		1965-86	<b>74-6306</b>	10.136 Length
Expansion Plug Kit		1965-96	<b>97-16</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 78</b>	<b>300 C.I. (4.9L) LPG OHV Bi-Fuel, FI, 12V Vin Z</b>			<b>1994-96 L6 BORE - 4.00"/101.6mm</b>
Valve	Exh	1994-96	<b>10-1504S</b>	1.560 Head Dia. Stellite Faced.
	Int	1994-96	<b>10-1792</b>	1.781 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1994-96	<b>20-1687-5N</b>	1-3/8 I.D. 1-11/16 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int	1994-96	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1994-96	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1994-96	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1994-96	<b>32-1244</b>	1.970 Free Length
	Both	1994-96	<b>32-1245</b>	1.785 Free Length
	Exh	1994-96	<b>32-1242</b>	1.820 Free Length
Keeper	Both	1994-96	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1994-96	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rotator / Retainer	Both	1994-96	<b>37-6514</b>	Rotator. OEM # D9TZ6514A
Valve Stem Seal	Both	1994-96	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1994-96	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1994-96	<b>38-736-45</b>	Viton. Ring And Band.
	Both	1994-96	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1994-96	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1994-96	<b>55-6179</b>	Chrome Moly. 1.330 O.D. 11/32 Stem
Retainer	Both	1994-96	<b>55-6179</b>	Chrome Moly. 1.330 O.D. 11/32 Stem
Push Rod		1994-96	<b>74-6306</b>	10.136 Length
Expansion Plug Kit		1994-96	<b>97-117</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 79</b>	<b>302 C.I. 4951cc (5.0L) DOHC 32V Vin F,U</b>			<b>2010-16 V8 BORE - 92.2m/3.63"</b>
Valve	Exh	2011-15	<b>10-13295</b>	1.220 Head Dia. 0.2346 Stem
	Int	2011-15	<b>10-13294</b>	1.457 Head Dia. 0.2356 Stem
Guide	Both	2011-15	<b>30-3166</b>	1.715 OAL
Spring	Both	2011-15	<b>32-5011</b>	2.075 Free Length. Conical
Keeper	Both	2010-15	<b>34-03722</b>	3 Groove. 0.235 Stem
Valve Stem Seal	Both	2011-15	<b>38-6128-55</b>	Top Hat. Viton

<b>LINE 80</b>	<b>302 C.I. (5.0L) 16V</b>			<b>1956-63 V8 BORE - 3.62"/92mm</b>
Valve Seat Insert	Int	1956-63	<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
	Exh	1956-63	<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Also Avail. In Nickel (-N) Matl.
Guide	Exh	1956-63	<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1956-57	<b>30-5606</b>	2.375 OAL. Plain I.D. Conversion Guide
	Int	1956-63	<b>30-6108</b>	2.375 OAL. 0.374 I.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 80</b>	<b>302 C.I. (5.0L) 16V</b>		<b>1956-63 V8</b>	<b>BORE - 3.62"/92mm</b>
Spring	Both	1956-63	<b>32-611</b>	2.090 Free Length
Keeper	Int	1958-63	<b>34-613</b>	1 Groove. Heat Treated
Push Rod		1953-63	<b>74-6080</b>	9.605 Length
<b>LINE 81</b>	<b>302 C.I. (5.0L) Carb., F.I. Vin E,F,N,P,T</b>		<b>1968-01 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1968-69	<b>10-1000</b>	1.451 Head Dia. 4.873 OAL. +3, 15 O/S Stem May Be Avail.
	Exh	1969-01	<b>10-1135</b>	1.451 Head Dia. 5.070 OAL. Hardened Tip, No Wear Cap Required. +3, 15, 30 O/S Stem May Be Avail.
	Exh	1986-91	<b>10-1537</b>	1.451 Head Dia. 4.942 OAL. +3, +15 O/S Stem Avail.
	Exh	1993-96	<b>10-1877</b>	1.541 Head Dia. Mustang Cobra. Inconel Head
	Int	1968-69	<b>10-1001</b>	1.781 Head Dia. 4.873 OAL. +3, +15 O/S Stem May Be Avail.
	Int	1969-78	<b>10-1137</b>	1.781 Head Dia. 5.050 OAL. 0.461 Tip To Groove. From Chg. L-4 To S/N BE0,001. +3, +15 O/S Stem May Be Avail.
	Int	1978-01	<b>10-1328</b>	1.782 Head Dia. +3,+15,+30 O/S Stem May Be Avail.
	Int	1986-91	<b>10-1538</b>	1.782 Head Dia. 4.942 OAL. +3, 15 O/S Stem Avail.
	Int	1993-96	<b>10-1701</b>	1.842 Head Dia. 5.070 OAL. Explorer, Mustang Cobra
Valve Seat Insert	Exh	1983-95	<b>20-1500-4</b>	1-7/32T I.D. 1-1/2 O.D. 7/32 Depth, Rec. For Use On Late Model Heads w/ Thin Wall Sections Exc. 1993-95 Mustang Cobra
	Exh	1968-01	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix for LPG
	Exh	1983-95	<b>20-1562-36</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth.
	Int	1968-01	<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Int	1993-96	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth. Fits Explorer, Mustange Cobra w/ 1.842 Valve Head Dia.
Guide	Both	1969-71	<b>30-9606</b>	2.375 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Both	1968-01	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail. 0.502 O.D.
	Int	1969-01	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1968-69	<b>32-902</b>	1.970 Free Length
	Both	1970-79	<b>32-936</b>	1.943 Free Length. 0.200 Wire Dia., w/o Rotator
	Both	1969-74	<b>32-961-D</b>	Boss Eng. 2.026 Free Length
	Exh	1969-01	<b>32-1086</b>	1.923 Free Length. 0.185 Wire Dia. Use w/ Rotator
	Exh	1982-82	<b>32-1193</b>	w/ H.O. Eng. 1.890 Free Length
	Int	1980-91	<b>32-1011</b>	2.060 Free Length.
	Int	1969-79	<b>32-1149</b>	1.965 Free Length
	Int	1979-01	<b>32-1175</b>	2.040 Free Length
	Int	1982-95	<b>32-1201</b>	1.900 Free Length. 83-89 H.O. Eng.
	Int	1983-95	<b>32-1250</b>	2.079 Free Length. H.O. Eng
Keeper	Both	1968-01	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1992-01	<b>36-2205</b>	Hydraulic Roller
	Both	1968-91	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1986-01	<b>38-108-45</b>	Viton. Metal Clad. 11/32 x 0.502
	Both	1975-85	<b>38-256-35</b>	Glass Filled Nylon. Umbrella.
	Both	1986-01	<b>38-806-55</b>	Viton. Metal Clad 11/32 x 0.562
	Both	1968-86	<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
	Both	1968-01	<b>38-938-45</b>	Viton. Ring And Band. 11/32 x 0.562. Polyacrylic 38-938-25 Also Avail.
Rocker Component	Both	1968-78	<b>40-2886</b>	Rocker Arm, Cast w/ Rails Before BE0,001
	Both	1969-71	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector. Mustang Boss

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 81</b>	<b>302 C.I. (5.0L) Carb., F.I. Vin E,F,N,P,T</b>		<b>1968-01 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Rocker Component	Both	1978-01	<b>40-2889</b>	Rocker Arm, Stamped. After BE0,001
Rocker Kit	Both	1978-01	<b>41-2548</b>	1 40-2889, 1 42-1741 Bolt, 1 42-1776 Pivot
	Both	1968-78	<b>41-2610</b>	1 40-2886, 1 42-1772 Grooved Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1968-01	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Push Rod		1968-69	<b>74-6279</b>	6.804 Length
		1969-82	<b>74-6281</b>	6.876 Length
		1982-01	<b>74-6366</b>	6.248 Length
	Both	1968-01	<b>74-6458</b>	6.400 Length. Retrofit Hydr. Rollers
Expansion Plug Kit		1968-01	<b>97-17</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 82</b>	<b>312 C.I. (5.1L)</b>		<b>1956-60 V8</b>	<b>BORE - 3.80"/96.52mm</b>
Valve	Exh	1956-60	<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int	1956-56	<b>10-373</b>	1.780 Head Dia.
	Int	1960-60	<b>10-376</b>	1.647 Head Dia. +15 O/S Stem May Be Avail.
	Int	1957-59	<b>10-494</b>	1.925 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1956-60	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1960-60	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.647 Valve Head.
	Int	1956-56	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.870 Valve Head Dia.
	Int	1957-59	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.925 Valve Head Dia.
Guide	Exh	1956-60	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Int	1956-60	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1956-60	<b>32-611</b>	2.090 Free Length
Keeper	Both	1956-60	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1956-60	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1956-60	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1956-60	<b>38-522-25</b>	Polyacrylic. Shallow Umbrella.
	Both	1956-60	<b>38-810-45</b>	Viton. Ring And Band.
	Both	1956-60	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1956-60	<b>97-20</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 83</b>	<b>318 C.I. (5.2L) 16V</b>		<b>1952-54 V8</b>	<b>BORE - 3.80"/96.5mm</b>
Valve	Int	1952-54	<b>10-373</b>	1.780 Head Dia.
Valve Seat Insert	Exh	1952-54	<b>20-1625-4</b>	1-5/16 I.D. 1-5/8 O.D. 7/32 Depth
Guide	Both	1952-54	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1952-54	<b>32-611</b>	2.090 Free Length
Keeper	Both	1952-54	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1952-54	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1952-54	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1952-54	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Push Rod		1952-54	<b>74-6080</b>	9.605 Length
<b>LINE 84</b>	<b>330 C.I. (5.4L) Medium Duty</b>		<b>1964-77 V8</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh	1964-77	<b>10-1332</b>	1.508 Head Dia. +15 O/S Stem Avail.
	Int	1964-77	<b>10-949</b>	1.753 Head Dia. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1964-77	<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Int	1964-77	<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 84</b>	<b>330 C.I. (5.4L) Medium Duty</b>		<b>1964-77 V8</b>	<b>BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Exh	1964-77	22-1630-1	1.335 I.D. 1.630 O.D. 0.312 Depth. OEM # C4TZ-6057A & DITZ-6057A, +5, +10, +20, +30, & +40 O/S Avail.
	Int	1964-77	22-1815-1	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
Guide	Exh	1964-77	30-9298	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int	1964-77	30-9109	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both	1964-77	32-1016	1.960 Free Length.
	Both	1964-77	32-677-D	2.260 Free Length. w/ Damper
	Int	1964-77	32-1266-D	1.970 Free Length.
Keeper	Both	1964-77	34-613	1 Groove. Heat Treated
Lifter	Both	1964-77	36-2083	Hydraulic
Valve Stem Seal	Both	1964-77	38-1036-70	Teflon And Rubber.
	Both	1964-77	38-1050-70	Teflon And Rubber.
	Both	1964-77	38-1091-75	All Teflon. 3/8 x 0.500
	Both	1964-77	38-905-25	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1964-77	38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1964-77	38-940-45	Viton. 2-Ring.
Rocker Component	Both	1964-77	40-2859	Rocker Arm. Cast
		1964-77	42-2641	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Expansion Plug Kit		1964-77	97-19	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 85</b>	<b>330 C.I. (5.4L) Heavy Duty</b>		<b>1964-79 V8</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh	1964-79	10-917	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int	1964-77	10-1057S	1.753 Head Dia. 0.3714 Stem. To S/N 025,001. Stellite. 10-1057 Non-Stellite Avail.
	Int	1977-79	10-1348	1.753 Head Dia. 0.3714 Stem. From S/N 025,001
Valve Seat Insert	Exh	1964-79	20-1687-4N	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter. Non-Magnetic Nickel Matl.
	Int	1964-69	20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh	1964-79	22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth, +10, +20 & +30 O/S Avail., w/ 1.505 Valve Head Dia.
	Int	1964-78	22-1815-1	1.595 I.D. 1.815 O.D. 1/4 Depth, +5, +10, +20, +30 & +40 O/S Avail., w/ 1.753 Valve Head Dia.
Guide	Exh	1964-79	30-9119	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1964-79	30-9109	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both	1964-79	32-1016	1.960 Free Length.
	Both	1964-79	32-798	2.000 Free Length.
Keeper	Both	1964-79	34-613	1 Groove. Heat Treated
Lifter	Both	1964-79	36-2083	Hydraulic
Valve Stem Seal	Int	1964-79	38-1036-70	Teflon And Rubber.
	Int	1964-79	38-905-25	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
Rocker Component	Both	1964-79	40-2859	Rocker Arm. Cast
		1964-79	42-2641	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Expansion Plug Kit		1964-79	97-19	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 86</b>	<b>330 C.I. (5.4L) SOHC 16V Vin 3,L,M,W,Z (Gas, CNG)</b>		<b>1997-16 V8</b>	<b>BORE - 3.55"/90mm</b>
Valve	Exh	1997-01	10-1698	1.339 Head Dia. Gasoline. +3 & +15 O/S Stem May Be Avail. Exc. CNG, Use Stellite, -S Suffix
	Exh	2000-15	10-1925	1.418 Head Dia. 4.681 Length. Exc. CNG & LPG, Use Stellite, -S Suffix

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 86</b>	<b>330 C.I. (5.4L) SOHC 16V Vin 3,L,M,W,Z (Gas, CNG)</b>			<b>1997-16 V8 BORE - 3.55"/90mm</b>
Valve	Int	1997-01	10-1699	1.752 Head Dia. +3 & +15 O/S Stem May Be Avail. Exc. CNG, Use Stellite, -S Suffix
	Int	2000-15	10-1924	1.752 Head Dia. 4.752 Length. Exc. CNG & LPG, Use Stellite, -S Suffix
Valve Seat Insert	Exh	1997-99	21-1375-61	1.130T I.D. 1-3/8 O.D. 0.304 Depth. Exc. Natl. Gas
	Exh	2000-15	21-1500-50	1.203T I.D. 1-1/2 O.D. 0.280 Depth. Machine to Depth. Exc. CNG and LPG, Use Nickel -N Suffix
	Int	1997-15	21-1875-56	1.600T I.D. 1-7/8 O.D. 0.252 Depth. Exc. Natl. Gas
Guide	Both	1997-15	30-8274	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
Spring	Both	1997-99	32-1615	1.968 Free Length
	Both	2000-15	32-2487	2.101 Free Length
Keeper	Both	1997-15	34-281	3 Round Grooves
Lifter	Both	1997-15	36-2271	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1997-15	38-111-45	Viton. Top Hat.
Retainer	Both	2000-15	55-6194	Chrome Moly. 0.890 O.D. 7mm Stem
<b>LINE 87</b>	<b>330 C.I. (5.4L) SOHC 24V Triton Vin 5,V Gas/Flex</b>			<b>2004-14 V8 BORE - 3.55"/90.2mm</b>
Valve	Exh	2004-14	10-2119	1.476 Head Dia. Bi-Metallic. 1V per Cyl. Flex
	Exh	2004-14	10-2265	1.476 Head Dia. 1V per Cyl. F150 Unleaded Fuel Only
	Int	2004-14	10-2118	1.331 Head Dia. 2V per Cyl.
Valve Seat Insert	Exh	2004-14	21-1500-73	1.230 I.D. 1-1/2 O.D. 0.278 Depth
	Int	2004-14	21-1375-50	1.109T I.D. 1-3/8 O.D. 0.255 Depth. Ser. 1-4
	Exh	2004-13	22-1501-1	1.279 I.D. 1.500 O.D. 0.275 Depth
	Int	2004-13	22-1345-1	1.165 I.D. 1.345 O.D. 0.246 Depth.
Guide	Both	2004-14	30-3047	1.725 OAL. 0.436 O.D. 0.2371 I.D.
Spring	Both	2004-14	32-04029	2.174 Free Length.
Keeper	Both	2004-14	34-03722	3 Round Grooves
Lifter	Both	2004-14	36-2305	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2004-14	38-905-45	Viton. Top Hat.
Rocker Component	Both	2004-14	40-2930	Cam Follower
<b>LINE 88</b>	<b>330 C.I. (5.4L) DOHC 32V Vin A,R,S</b>			<b>1999-14 V8 BORE - 3.55"/90.2mm</b>
Valve	Exh	1999-04	10-1708	1.181 Head Dia. 0.274 Stem
	Int	1999-04	10-1709	1.456 Head Dia. 0.275 Stem
Valve Seat Insert	Exh	1999-04	21-1250-61	0.976 I.D. 1-1/4 O.D. 0.180 Depth
	Int	1999-04	21-1500-59	1.210T I.D. 1-1/2 O.D. 0.325 Depth
Guide	Both	1999-04	30-8274	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
Spring	Both	1999-04	32-2300	1.736 Free Length
Keeper	Both	1999-12	34-281	3 Round Grooves. 0.275 Stem
Lifter	Both	1999-04	36-2271	Hydraulic Lash Adjuster
	Both	2005-12	36-7005	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1999-09	38-111-45	Viton. Top Hat. 0.275 Stem Dia.
	Both	2001-12	38-46-45	Viton. Top Hat. Height 0.646
Expansion Plug Kit		1999-04	97-122	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 89</b>	<b>332 C.I. (5.4L)</b>			<b>1956-63 V8 BORE - 3.80"/96.5mm</b>
Valve Seat Insert	Int	1956-63	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
	Exh	1956-63	22-1630-1	1.335 I.D. 1.630 O.D. 0.312 Depth. Also Avail. In Nickel (-N) Matl.
Guide	Exh	1956-63	30-9119	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 89</b>	<b>332 C.I. (5.4L)</b>			<b>1956-63 V8 BORE - 3.80"/96.5mm</b>
Guide	Int	1956-63	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1956-63	<b>32-611</b>	2.090 Free Length
Keeper	Both	1956-63	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1956-63	<b>36-2089</b>	Hydraulic
Push Rod	Both	1956-63	<b>74-6080</b>	9.605 Length
Expansion Plug Kit		1956-63	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 90</b>	<b>332 C.I. (5.4L) OHV 16V</b>			<b>1958-59 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1958-59	<b>10-1242</b>	1.559 Head Dia. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1958-59	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth. -N Suffix, Nickel Matl. Also Avail.
	Int	1958-59	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
Guide	Both	1958-59	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1958-59	<b>32-677-D</b>	2.260 Free Length. w/ Damper
Keeper	Both	1958-59	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1958-59	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1958-59	<b>38-1050-70</b>	Teflon And Rubber.
	Both	1958-59	<b>38-1091-75</b>	All Teflon. 3/8 x 0.500
	Both	1958-59	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
Rocker Component	Both	1958-59	<b>40-2859</b>	Rocker Arm. Cast
Push Rod		1958-59	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1958-59	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 91</b>	<b>335 C.I. (5.5L) (Non-USA)</b>			<b>1969-95 V8 BORE - 3.900"/99.1mm</b>
Valve	Exh	1969-91	<b>10-09538</b>	1.410 Head Dia. Also May Be Avail. In +15 O/S
	Int	1969-91	<b>10-09536</b>	1.780 Head Dia. Also May Be Avail. In +3, +15 O/S
<b>LINE 92</b>	<b>351 C.I. (5.8L) Lightning 16V Vin R</b>			<b>1993-95 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1993-95	<b>10-1877</b>	1.541 Head Dia. Inconel Head
	Int	1993-95	<b>10-1701</b>	1.842 Head Dia.
Valve Seat Insert	Exh	1993-95	<b>20-1625-33</b>	1-3/8 I.D. 1-5/8 O.D. 3/16 Depth
	Int	1993-95	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth.
Guide	Both	1993-95	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Keeper	Both	1993-95	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1993-95	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1993-95	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Exh	1993-95	<b>38-736-45</b>	Viton. Ring And Band. w/ 0.341 Stem Dia.
	Int	1993-95	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Retainer	Both	1993-95	<b>55-6302</b>	Chrome Moly. 1.400 O.D. 11/32 Stem
<b>LINE 93</b>	<b>351 C.I. (5.8L) Windsor Vin G, H, M</b>			<b>1969-97 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1978-97	<b>10-1135</b>	1.451 Head Dia. w/ Steel Rocker Arms, Wafer Welded Tip - Does Not Require Wear Cap. +3, 15, 30 O/S Stem May Be Avail. Stellite for LPG in -S Suffix
	Exh	1969-74	<b>10-1237</b>	1.541 Head Dia. +3, 15, 30 O/S Stem Avail.
	Exh	1975-78	<b>10-1327</b>	1.460 Head Dia. 1975-76 All, 1977-78 w/ Cast Iron Rocker Arms w/o Rotators, +15 O/S Avail.
	Int	1969-74	<b>10-1238</b>	1.842 Head Dia. +3, 15, 30 O/S Stem Avail.
	Int	1975-97	<b>10-1328</b>	1.782 Head Dia. +3,+15,+30 O/S Stem May Be Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 93</b>	<b>351 C.I. (5.8L) Windsor Vin G, H, M</b>		<b>1969-97 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve Seat Insert	Exh	1975-97	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix for LPG
	Exh	1969-74	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.541 Valve Head
	Int	1975-97	20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth. w/ 1.782 Valve Head Dia.
	Int	1969-74	20-1937-1	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth. w/ 1.842 Valve Head Dia.
Guide	Both	1969-97	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1970-79	32-1011	2.060 Free Length. Exc. 1977-79 Exh.
	Both	1988-97	32-1250	2.028 Free Length.
	Both	1969-69	32-935-D	2.073 Free Length. w/ Damper
	Exh	1975-97	32-1086	Exc. H.O. Eng. 1.923 Free Length
	Exh	1980-91	32-1201	1.900 Free Length. H.O. Trailer Pkg.
	Int	1975-97	32-1175	2.040 Free Length. Exc. H.O. Eng.
	Int	1980-91	32-1193	H.O. Trailer Pkg. 1.890 Free Length
Keeper	Both	1969-97	34-555	1 Square Groove. Heat Treated
Lifter	Both	1994-97	36-2205	Hydraulic Roller. Exc. '93-96 Lightning
	Both	1969-96	36-900CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1969-97	38-1054-70	Teflon And Rubber. 0.341 Stem Dia.
	Both	1969-97	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1969-91	38-259-35	Glass Filled Nylon. Umbrella.
	Both	1969-97	38-916-25	Polyacrylic. Umbrella. Nitrile Matl. 38-916-15 Also Avail.
	Both	1969-97	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1969-91	38-951-25	Polyacrylic. 2-Ring.
Rocker Component	Both	1969-78	40-2886	Rocker Arm, Cast w/ Rails. Before BA0,001
	Both	1978-97	40-2889	Rocker Arm, Stamped. After BE0,001
Rocker Kit	Both	1978-95	41-2548	1 40-2889, 1 42-1741 Bolt, 1 42-1776 Pivot
	Both	1969-78	41-2610	1 40-2886, 1 42-1772 Grooved Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1969-97	42-2934	Rocker Stud. 3/8-24 x 2.600
Expansion Plug Kit		1969-97	97-17	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 94</b>	<b>351C C.I. (5.8L) Cleveland Vin Q</b>		<b>1970-74 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1970-74	10-1169	1.655 Head Dia. +15 O/S Stem May Be Avail.
	Exh	1970-72	10-1171	1.709 Head Dia. 4BC. +15 O/S Stem May Be Avail.
	Int	1970-74	10-1170	2.041 Head Dia. +15 O/S Stem May Be Avail.
	Int	1970-72	10-1172	2.190 Head Dia. 4BC. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1970-74	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Exh	1970-72	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.709 Head Dia.
	Int	1970-74	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth. w/ 2.041 Valve Head
	Int	1970-72	20-2250-2	1-7/8 I.D. 2-1/4 O.D. 9/32 Depth. w/ 2.190 Valve Head
Guide	Both	1970-74	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1970-74	32-907-D	w/ 4BC, 2.120 Free Length
	Both	1970-74	32-961-D	Boss Eng. 2.026 Free Length
	Both	1970-74	32-991	w/ 2BC 2.068 Free Length
Keeper	Both	1970-74	34-620	Heat Treated. 4 Groove
Lifter	Both	1970-74	36-900CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1970-74	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1970-74	38-1065-70	Teflon And Rubber.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 94</b>	<b>351C C.I. (5.8L) Cleveland Vin Q</b>		<b>1970-74 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve Stem Seal	Both	1970-74	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1970-74	<b>38-256-35</b>	Glass Filled Nylon. Umbrella.
	Both	1970-74	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1970-75	<b>38-916-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-916-15 Also Avail.
	Both	1970-74	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Rocker Component	Both	1970-74	<b>40-2886</b>	Rocker Arm, Cast w/ Rails
	Both	1970-74	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1972-74	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Expansion Plug Kit		1970-74	<b>97-18</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 95</b>	<b>351M C.I. (5.8L) Modified</b>		<b>1975-81 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1975-77	<b>10-1169</b>	1.655 Head Dia. 0.3415 Stem Dia. 4 Groove, +15 O/S Stem May Be Avail.
	Exh	1978-81	<b>10-1367</b>	1.655 Head Dia. 0.3414 Stem Dia. 1 Groove, +3, +15 O/S Stem Avail.
	Int	1975-78	<b>10-1170</b>	2.041 Head Dia. 4 Groove. +15 O/S Stem May Be Avail.
	Int	1979-81	<b>10-1380</b>	2.041 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1975-81	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix
	Int	1975-81	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1975-81	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1975-81	<b>32-991</b>	Exc. 1977-79 Exh. 2.068 Free Length
	Exh	1978-81	<b>32-1149</b>	1.965 Free Length
Keeper	Both	1978-81	<b>34-555</b>	1 Square Groove. Heat Treated
	Both	1975-79	<b>34-620</b>	Heat Treated. 4 Groove
Lifter	Both	1975-81	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1975-81	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1975-81	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1975-81	<b>38-256-35</b>	Glass Filled Nylon. Umbrella.
	Both	1975-81	<b>38-916-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-916-15 Also Avail.
	Both	1975-81	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Rocker Component	Both	1975-81	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1975-81	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Push Rod		1975-79	<b>74-6310</b>	9.500 Length. Exc. Boss Special
Expansion Plug Kit		1975-81	<b>97-18</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 96</b>	<b>352 C.I. (5.8L), 361 C.I. (5.9L) 16V</b>		<b>1958-67 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1958-67	<b>10-1242</b>	1.559 Head Dia. 0.3715 Stem. +3, +15 O/S Stem Avail.
	Int	1961-67	<b>10-637</b>	2.027 Head Dia. .3716 Stem. +3 & +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1958-67	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Int	1958-67	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
Guide	Both	1958-67	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Exh	1958-59	<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
	Exh	1958-67	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
Spring	Both	1958-67	<b>32-677-D</b>	2.260 Free Length. w/ Damper
Keeper	Both	1958-67	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1958-67	<b>36-2083</b>	Hydraulic
	Both	1961-63	<b>36-872</b>	Mechanical

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 96</b>	<b>352 C.I. (5.8L), 361 C.I. (5.9L) 16V</b>			<b>1958-67 V8 BORE - 4.00"/101.6mm</b>
Valve Stem Seal	Both	1958-66	<b>38-1036-70</b>	Teflon And Rubber
	Both	1958-67	<b>38-1050-70</b>	Teflon And Rubber.
	Both	1958-67	<b>38-1091-75</b>	All Teflon. 3/8 x 0.500
	Both	1958-67	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1958-66	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1958-67	<b>40-2859</b>	Rocker Arm. Cast
		1958-67	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Retainer	Both	1958-66	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
Push Rod		1958-67	<b>74-5311</b>	9.620 Length
		1958-66	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1958-67	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 97</b>	<b>355 C.I. (5.8L) DOHC 32V Vin Z S/C</b>			<b>2013-14 V8 BORE - 3.68"/93.5mm</b>
Guide	Both	2013-14	<b>30-8274</b>	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
Keeper	Both	2013-14	<b>34-281</b>	3 Round Grooves
Valve Stem Seal	Both	2013-14	<b>38-46-45</b>	Viton. Top Hat. Height 0.646
<b>LINE 98</b>	<b>359 C.I. (5.9L) 16V Vin K</b>			<b>1974-78 V8 BORE - 4.05"/102.87mm</b>
Valve	Exh	1974-78	<b>10-917</b>	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int	1974-77	<b>10-1057S</b>	1.753 Head Dia. To S/N 025,001. Stellite. 10-1057 Non-Stellite Avail.
	Int	1977-78	<b>10-1348</b>	1.753 Head Dia. F600 Rental, From S/N 025,001
	Int	1977-78	<b>10-1349S</b>	1.753 Head Dia. Exc. F600 Rental. From S/N 025,001
Valve Seat Insert	Exh	1974-78	<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Int	1974-78	<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh	1974-78	<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. +5, 10, 20, 30, 40 O/S Avail. Replaces OEM # C4TZ-6057-A & D1TZ-6057-A.
	Int	1974-78	<b>22-1815-1</b>	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A, +5, +10, +20, +30, & +40 O/S Avail.
Guide	Exh	1974-78	<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1974-78	<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both	1974-77	<b>32-798</b>	Before S/N C10,001. 2.000 Free Length
	Int	1977-78	<b>32-909-D</b>	2.120 Free Length. After S/N C10,001
Keeper	Both	1974-78	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1974-78	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Int	1974-78	<b>38-1036-70</b>	Teflon And Rubber.
	Int	1974-78	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
Rocker Component	Both	1974-78	<b>40-2859</b>	Rocker Arm. Cast
		1974-78	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Retainer	Both	1974-78	<b>55-6302</b>	Chrome Moly. 1.400 O.D. 11/32 Stem
Push Rod		1947-78	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1974-78	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 99</b>	<b>360 C.I. (5.9L) Vin Y</b>			<b>1968-76 V8 BORE - 4.05"/102.87mm</b>
Valve	Exh	1968-76	<b>10-1242</b>	1.559 Head Dia. +3, +15 O/S Stem Avail.
	Int	1968-76	<b>10-637</b>	2.027 Head Dia. +3 & +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1968-76	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Int	1968-76	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 99</b>	<b>360 C.I. (5.9L) Vin Y</b>			<b>1968-76 V8 BORE - 4.05"/102.87mm</b>
Guide	Exh	1968-76	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int	1968-76	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1968-76	<b>32-1016</b>	1.960 Free Length.
	Both	1968-76	<b>32-909-D</b>	Exc. 1973-76 F100 Exh. 2.120 Free Length. w/ Damper
	Exh	1972-76	<b>32-798</b>	2.000 Free Length.
Keeper	Both	1968-76	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1968-76	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1968-76	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1968-76	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1968-76	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1968-76	<b>38-940-45</b>	Viton. 2-Ring.
Rocker Component	Both	1968-76	<b>40-2859</b>	Rocker Arm. Cast
		1968-76	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1968-76	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1968-76	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 100</b>	<b>361 C.I. (5.9L) 16V</b>			<b>1964-78 V8 BORE - 4.05"/102.87mm</b>
Valve	Exh	1964-78	<b>10-917</b>	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int	1964-77	<b>10-1057S</b>	1.753 Head Dia. To S/N 025,001, 0.473 Tip To Groove Length. Stellite. 10-1057 Non-Stellite Avail.
	Int	1977-78	<b>10-1348</b>	1.753 Head Dia. F600 Rental, From S/N 025,001
	Int	1977-78	<b>10-1349S</b>	1.753 Head Dia. Exc. F600 Rental, From S/N 025,001 0.303 Tip To Groove
Valve Seat Insert	Exh	1964-78	<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Exh	1964-78	<b>20-1687-4N</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter. Non-Magnetic Nickel Matl.
	Int	1964-78	<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh	1964-78	<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. +5, 10, 20, 30, 40 O/S Avail. Replaces OEM # C4TZ-6057-A & D1TZ-6057-A.
	Exh	1964-78	<b>22-1630-1N</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl. LPG
	Int	1964-78	<b>22-1815-1</b>	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
Guide	Exh	1964-78	<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1964-78	<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both	1964-78	<b>32-1016</b>	1.960 Free Length.
	Both	1964-78	<b>32-798</b>	2.000 Free Length.
	Both	1964-78	<b>32-909-D</b>	2.120 Free Length.
Keeper	Both	1964-78	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1964-78	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1964-78	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1964-78	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1964-78	<b>40-2859</b>	Rocker Arm. Cast
		1964-78	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1964-72	<b>74-5311</b>	9.620 Length
		1964-78	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1964-78	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 101</b>	<b>363 C.I. (6.0L) 32V Vin P Turbo Diesel Powerstroke</b>			<b>2003-10 V8 BORE - 3.74"/94.9mm</b>
Valve	Exh	2003-10	<b>10-2180</b>	1.102 Head Dia.
	Int	2003-10	<b>10-2179</b>	1.339 Head Dia.
Valve Seat Insert	Int	2003-10	<b>20-1375-2</b>	1.125 I.D. 1.3795 Exact O.D. 0.250 Depth. May Need Machining
	Exh	2003-10	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth. May Need Machining
	Exh	2003-10	<b>22-1161-1+030</b>	0.910T I.D. 1.191 O.D. 0.222 Depth. May Need Machining. +10, 20, 30, 40, 50, 63 Avail.
	Exh	2003-10	<b>22-1221-2N</b>	0.906 I.D. 1.221 O.D. 0.335 Depth. Non-Magnetic Nickel Matl.
	Exh	2003-10	<b>22-1260-1N</b>	0.945 I.D. 1.2598 O.D. 0.335 Depth. May Need Machining. Non-Magnetic Nickel
	Int	2003-10	<b>22-1375-1</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +10 O/S Avail.
	Int	2003-10	<b>22-1375-2N</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail.
Guide	Both	2003-10	<b>30-3055</b>	2.331 OAL. 0.2765 I.D. +2, 5 O/S Avail.
Spring	Both	2003-10	<b>32-04040</b>	2.076 Free Length
Keeper	Both	2003-10	<b>34-5009</b>	1 Round Groove
Lifter	Both	2003-10	<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both	2003-10	<b>38-160-55</b>	Viton. Top Hat.
Performance Spring	Both	2003-10	<b>52-4040</b>	2.170 Free Length. 84 @ 1.88. 230 @ 1.44
Retainer	Both	2003-10	<b>55-6328</b>	Retainer. 0.912 O.D.
Push Rod	Both	2003-10	<b>74-6662</b>	9.795 Length. OEM # 8C3Z6565B
Injector Component		2003-10	<b>87-8320</b>	Injector Tube. Stainless. OEM# 3C3Z-9F538-AA
Expansion Plug Kit		2003-10	<b>97-300SS</b>	Stainless
<b>LINE 102</b>	<b>368 C.I. (6.0L) 16V</b>			<b>1956-57 V8 BORE - 4.00"/101.6mm</b>
Guide	Both	1956-57	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Keeper	Both	1956-57	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1956-57	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1956-57	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1956-57	<b>38-911-25</b>	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
<b>LINE 103</b>	<b>370 C.I. (6.1L) 16V Vin A, H</b>			<b>1979-91 V8 BORE - 4.05"/102.87mm</b>
Valve	Exh	1979-85	<b>10-1381</b>	1.562 Head Dia. 2BC. +3, 15 O/S Stem May Be Avail.
	Exh	1979-91	<b>10-1383C</b>	1.562 Head Dia. 1979-85 w/ 4BC, 1986-91 All. Sodium Filled
	Int	1979-85	<b>10-1382</b>	1.784 Head Dia. 2BC. +3, +15 O/S Stem May Be Avail.
	Int	1979-91	<b>10-1384S</b>	1.784 Head Dia. 1979-85 w/ 4BC, 1986-91 All. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1979-91	<b>20-1687-4N</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter. Non-Magnetic Nickel Matl.
	Int	1979-91	<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Exh	1979-91	<b>22-1671-1N</b>	1.367 I.D. 1.671 O.D. 0.311 Depth, OEM # D9HZ-6057C, +10, & +20 O/S Avail.
Guide	Exh	1979-91	<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
	Int	1979-91	<b>30-8037</b>	2.615 OAL
Spring	Both	1979-88	<b>32-1167</b>	Exc. 1979-85 Exh. w/ 2BC. 1.970 Free Length
	Exh	1979-85	<b>32-1166</b>	w/ 2BC. 2.100 Free Length.
Keeper	Both	1979-91	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1979-91	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1979-91	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1979-91	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1979-91	<b>38-260-35</b>	Glass Filled Nylon. Umbrella.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 103</b>	<b>370 C.I. (6.1L) 16V Vin A, H</b>		<b>1979-91 V8</b>	<b>BORE - 4.05"/102.87mm</b>
Valve Stem Seal	Both	1979-91	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1979-91	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1979-91	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Push Rod		1979-91	<b>74-6274</b>	8.550 Length
Expansion Plug Kit		1979-91	<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 104</b>	<b>6210cc (6.2L) SOHC 16V Vin 6</b>		<b>2010-16 V8</b>	<b>BORE - 102.1mm/4.02"</b>
Valve	Exh	2010-15	<b>10-13289</b>	1.654 Head Dia. 0.3122 Stem
	Exh	2012-15	<b>10-13291S</b>	1.654 Head Dia. 0.3122 Stem. Stellite. For Natl. Gas
	Int	2010-15	<b>10-13288</b>	2.106 Head Dia. 0.3127 Stem
	Int	2012-15	<b>10-13290S</b>	2.106 Head Dia. 0.3127 Stem. Stellite. For Natl. Gas
Spring	Both	2010-15	<b>32-5016</b>	2.540 Free Length. Conical
Keeper	Both	2010-15	<b>34-619</b>	Heat Treated. 3 Groove.
Valve Stem Seal	Both	2010-15	<b>38-6127-55</b>	Top Hat. Viton
<b>LINE 105</b>	<b>383 C.I. (6.3L) 16V</b>		<b>1958-59 V8</b>	<b>BORE - 4.300"/109mm</b>
Guide	Exh	1958-59	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int	1958-59	<b>30-9111</b>	2.875 OAL. Spiral 0.374 I.D. 30-6111 Plain ID Also Avail.
	Int	1958-59	<b>30-9554</b>	2.750 OAL. Spiral 0.373 I.D. 30-7554 Plain ID Also Avail.
Keeper	Both	1958-59	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1958-59	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1958-59	<b>38-915-15</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
	Both	1958-59	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1958-59	<b>40-2859</b>	Rocker Arm. Cast
<b>LINE 106</b>	<b>6.4L OHV 32V Diesel (Navistar) Vin R</b>		<b>2008-10 V8</b>	<b>BORE - 98mm/3.86"</b>
Valve	Exh	2008-10	<b>10-13183</b>	1.161 Head Dia. 0.2738 Stem
	Int	2008-10	<b>10-13182</b>	1.339 Head Dia. 0.2738 Stem
Valve Seat Insert	Int	2008-10	<b>20-1375-2</b>	1.125 I.D. 1.3795 Exact O.D. 0.250 Depth. May Need Machining. -N Suffix Nont Magnetic Also Avail.
	Exh	2008-10	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth. May Need Machining
	Exh	2008-10	<b>22-1161-1+030</b>	0.910T I.D. 1.191 O.D. 0.222 Depth. May Need Machining. +10, 20, 30, 40, 50, 63 Avail.
	Exh	2008-10	<b>22-1221-2N</b>	0.906 I.D. 1.221 O.D. 0.335 Depth. Non-Magnetic Nickel Matl.
	Exh	2008-10	<b>22-1260-1N</b>	0.945 I.D. 1.2598 O.D. 0.335 Depth. May Need Machining. Non-Magnetic Nickel
	Exh	2008-10	<b>22-1262-1</b>	0.975T I.D. 1.262 O.D. 1/4 Depth, +10, +20, +30, +40, +53, & +62 O/S Avail. Non-Magnetic
	Int	2008-10	<b>22-1375-1</b>	1.100 I.D. 1.375 O.D. 0.227 Depth.
	Int	2008-10	<b>22-1375-2N</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail.
Guide	Both	2008-10	<b>30-3055</b>	2.331 OAL
Spring	Both	2008-10	<b>32-04040</b>	2.076 Free Length
Keeper	Both	2008-10	<b>34-5009</b>	1 Round Groove
Lifter	Both	2008-10	<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both	2008-10	<b>38-160-55</b>	Viton. Top Hat.
Performance Spring	Both	2008-10	<b>52-4040</b>	2.170 Free Length. 84 @ 1.88. 230 @ 1.44
Retainer	Both	2008-10	<b>55-6328</b>	Retainer. 0.912 O.D.
Push Rod	Both	2008-10	<b>74-6662</b>	9.795 Length. OEM # 8C3Z6565B
Injector Component	Both	2008-10	<b>87-6951</b>	Injector Tube, Stainless. OEM # 8C3Z9N951A

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 107</b>	<b>389 C.I. (6.4L) 16V Vin F</b>		<b>1975-78 V8</b>	<b>BORE - 4.05"/102.87mm</b>
Valve	Exh	1975-78	<b>10-917</b>	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int	1975-77	<b>10-1057S</b>	1.753 Head Dia. To S/N 025,001. 0.473 Tip To Groove. Stellite. 10-1057 Non-Stellite Also Avail.
	Int	1977-78	<b>10-1349S</b>	1.753 Head Dia. From S/N 025,001, 0.303 Tip To Groove
Valve Seat Insert	Exh	1975-78	<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Int	1975-78	<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh	1975-78	<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. +5, 10, 20, 30, 40 O/S Avail. Replaces OEM # C4TZ-6057-A & D1TZ-6057-A.
	Int	1975-78	<b>22-1815-1</b>	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A, +5, +10, +20, +30, & +40 O/S Avail.
Guide	Exh	1975-78	<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1975-78	<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both	1975-78	<b>32-1016</b>	1.960 Free Length.
Keeper	Both	1975-78	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1975-78	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Int	1975-78	<b>38-1036-70</b>	Teflon And Rubber.
	Int	1975-78	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
Rocker Component	Both	1975-78	<b>40-2859</b>	Rocker Arm. Cast
		1975-78	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1975-78	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1975-78	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 108</b>	<b>390 C.I. (6.4L) 16V Vin H,M,S,X,Y,Z</b>		<b>1961-76 V8</b>	<b>BORE - 4.05"/102.87mm</b>
Valve	Exh	1961-76	<b>10-1242</b>	1.559 Head Dia. +3, +15 O/S Stem Avail.
	Int	1961-76	<b>10-637</b>	2.027 Head Dia. Except Heavy Duty. +3 & +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1961-76	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Int	1961-76	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
Guide	Both	1961-76	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Exh	1961-76	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
Spring	Both	1968-76	<b>32-1016</b>	1.960 Free Length.
	Both	1961-65	<b>32-745-D</b>	Exc. Hi. Perf. & Police. w/ Damper. 2.125 Free Length
	Both	1972-76	<b>32-798</b>	Exh Only '72-76. 2.000 Free Length
	Both	1963-76	<b>32-909-D</b>	Hi-Perf & Police w/ Damper. 2.120 Free Length
Keeper	Both	1961-76	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1961-76	<b>36-2083</b>	Hydraulic
	Both	1961-71	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1961-76	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1961-71	<b>38-1050-70</b>	Teflon And Rubber.
	Both	1961-71	<b>38-1091-75</b>	All Teflon. 3/8 x 0.500
	Both	1961-76	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1961-76	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1961-76	<b>38-940-45</b>	Viton. 2-Ring.
Rocker Component	Both	1961-76	<b>40-2859</b>	Rocker Arm. Cast. Use w/ Hyd. Lifter
		1961-76	<b>42-2641</b>	Rocker Shaft. 2 Req. Use w/ Non-Adj. Rocker Arms
Retainer	Both	1961-76	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
Push Rod		1964-68	<b>74-5311</b>	9.620 Length. '64-68 Pass. '68 Truck

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 108</b>	<b>390 C.I. (6.4L) 16V Vin H,M,S,X,Y,Z</b>			<b>1961-76 V8 BORE - 4.05"/102.87mm</b>
Push Rod		1961-76	74-5312	9.590 Length. '61-63, '68-71 Pass. '68-76 Trucks
Expansion Plug Kit		1961-76	97-19	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 109</b>	<b>391 C.I. (6.4L) Vin F 16V</b>			<b>1964-78 V8 BORE - 4.05"/102.87mm</b>
Valve	Exh	1964-78	10-917	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int	1964-77	10-1057S	1.753 Head Dia. To S/N 025,001, 0.473 Tip To Groove. Stellite. 10-1057 Non-Stellite Avail.
	Int	1977-78	10-1349S	1.753 Head Dia. From S/N 025,001, 0.303 Tip To Groove
Valve Seat Insert	Exh	1964-78	20-1687-4	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Exh	1964-78	20-1687-4N	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter. Non-Magnetic Nickel Matl.
	Int	1964-78	20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh	1964-78	22-1630-1	1.335 I.D. 1.630 O.D. 0.312 Depth. +5, 10, 20, 30, 40 O/S Avail. Replaces OEM # C4TZ-6057-A & D1TZ-6057-A.
	Exh	1964-78	22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl. LPG
	Int	1964-78	22-1815-1	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
Guide	Exh	1964-78	30-9119	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1964-78	30-9964	2.250 OAL. Spiral I.D.
Spring	Both	1964-78	32-1016	1.960 Free Length.
	Both	1964-77	32-798	2.000 Free Length.
	Both	1977-78	32-909-D	2.120 Free Length. w/ Damper
Keeper	Both	1964-78	34-613	1 Groove. Heat Treated
Lifter	Both	1964-78	36-2083	Hydraulic
Valve Stem Seal	Int	1964-78	38-1036-70	Teflon And Rubber.
	Int	1964-78	38-905-25	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
Rocker Component	Both	1964-78	40-2859	Rocker Arm. Cast
		1964-78	42-2641	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1964-72	74-5311	9.620 Length
		1972-78	74-5312	9.590 Length
Expansion Plug Kit		1964-78	97-19	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 110</b>	<b>400 C.I. (6.6L) OHV 16V Vin S,Z</b>			<b>1971-82 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1971-77	10-1169	1.655 Head Dia. 4 Groove. +15 O/S Stem May Be Avail.
	Exh	1978-82	10-1367	1.655 Head Dia. 1 Groove +3, +15 O/S Stem Avail.
	Int	1971-78	10-1170	2.041 Head Dia. 4 Groove. +15 O/S Stem May Be Avail.
	Int	1978-82	10-1380	2.041 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1971-82	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1971-82	20-2125-2	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1971-82	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1973-82	32-994	2.056 Free Length. Exc. 78-79 Exh.
	Exh	1978-82	32-1149	1.965 Free Length
Keeper	Both	1978-82	34-555	1 Square Groove. Heat Treated
	Both	1971-78	34-620	Heat Treated. 4 Groove
Lifter	Both	1971-82	36-900CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1971-82	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1971-82	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1971-82	38-916-25	Polyacrylic. Umbrella. Nitrile Matl. 38-916-15 Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 110</b>	<b>400 C.I. (6.6L) OHV 16V Vin S,Z</b>		<b>1971-82 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve Stem Seal	Both	1971-82	<b>38-951-25</b>	Polyacrylic. 2-Ring.
Rocker Component	Both	1971-82	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1971-82	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Push Rod		1971-79	<b>74-6310</b>	9.500 Length. Exc. Boss Special
Expansion Plug Kit		1971-82	<b>97-18</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 111</b>	<b>401 C.I. (6.6L) 16V Vin H</b>		<b>1958-76 V8</b>	<b>BORE - 4.125"/104.77mm</b>
Valve	Exh	1958-76	<b>10-1346S</b>	1.635 Head Dia. Stellite Faced
Valve Seat Insert	Exh	1958-76	<b>22-1744-1N</b>	1.445 I.D. 1.744 O.D. 0.312 Depth, OEM # B8QH-6057A
	Int	1958-76	<b>22-2220-1</b>	1.843 I.D. 2.220 O.D. 0.312 Depth. OEM # B8TZ-6057T
Guide	Both	1958-76	<b>30-9609</b>	2.625 OAL. Spiral 0.438 I.D. 30-5609 Plain I.D. Also Avail.
	Exh	1970-76	<b>30-9197</b>	3.000 OAL
Spring	Both	1958-76	<b>32-931</b>	2.020 Free Length
Keeper		1958-76	<b>34-811</b>	1 Square Groove. Heat Treated
	Both	1958-76	<b>34-802</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1958-76	<b>38-713-15</b>	Nitrile. Umbrella Style.
Expansion Plug Kit		1958-76	<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 112</b>	<b>401 C.I. (6.6L) OHV Turbo Diesel Brazil 12V Vin P</b>		<b>1986-94 L6</b>	<b>BORE - 4.40"/111.76mm</b>
Valve	Exh	1986-94	<b>10-1740</b>	1.580 Head Dia. Indirect Injection
	Exh	1986-94	<b>10-1758</b>	1.693 Head Dia. Direct Injection
	Int	1986-94	<b>10-1694</b>	1.842 Head Dia. Indirect Injection
	Int	1986-94	<b>10-1757</b>	1.870 Head Dia. Direct Injection
Valve Seat Insert	Exh	1986-94	<b>22-1733-2N</b>	1.455T I.D. 1.733 O.D. 0.365 Depth. +30 O/S Avail. CF600/800 Series
	Int	1986-94	<b>22-1962-1N</b>	1.595T I.D. 1.962 O.D. 0.365 Depth, +30 O/S Avail., CF600/800 Series
Guide	Both	1986-94	<b>30-8409</b>	2.680 OAL
Keeper	Both	1986-94	<b>34-613</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1986-94	<b>38-403-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1986-94	<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 113</b>	<b>406 C.I. (6.6L)</b>		<b>1962-63 V8</b>	<b>BORE - 4.13"/104.9mm</b>
Valve	Exh	1962-63	<b>10-1242</b>	1.559 Head Dia. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1962-63	<b>20-1687-1</b>	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth w/ 1.559 Valve Head Dia.
	Exh	1962-63	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.650 Valve Head Dia.
	Int	1962-63	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
Guide	Exh	1962-63	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int	1962-63	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1962-63	<b>32-907-D</b>	2.120 Free Length. w/ Damper
Keeper	Both	1962-63	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1962-63	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1962-63	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1962-63	<b>38-253-45</b>	Viton. Umbrella.
	Both	1962-63	<b>38-260-35</b>	Glass Filled Nylon. Umbrella.
	Both	1962-63	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1962-63	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Retainer	Both	1962-63	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
Push Rod		1971-79	<b>74-6310</b>	9.500 Length. Exc. Boss Special



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 113</b>	<b>406 C.I. (6.6L)</b>			<b>1962-63 V8 BORE - 4.13"/104.9mm</b>
Expansion Plug Kit		1962-63	97-19	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 114</b>	<b>6651cc (6.7L) OHV 32V Powerstroke</b>			<b>2010-16 V8 BORE - 99.1mm/3.90"</b>
Valve	Exh	2011-15	10-13266	1.195 Head Dia.
	Int	2011-15	10-13265	1.331 Head Dia.
Guide	Both	2011-15	30-3163	2.150 OAL. 0.2764 I.D. 0.4725 O.D.
Spring	Both	2011-15	32-5015	1.979 Free Length. Conical
Keeper	Both	2010-15	34-281	3 Round Grooves
Lifter	Both	2011-15	36-7116	Hydraulic
Valve Stem Seal	Both	2011-15	38-6129-55	Viton. Top Hat
<b>LINE 115</b>	<b>410 C.I. (6.7L) / 428 C.I. (7.0L) Vin P, Q, R</b>			<b>1958-70 V8 BORE - 4.05"/4.13"</b>
Valve	Exh	1958-70	10-1242	1.559 Head Dia. Exc. CJ & SCJ. +3, +15 O/S Stem Avail.
	Int	1966-70	10-637	2.027 Head Dia. Exc. 67-68 Police Or SCJ & CJ. +3, 15 O/S Stem Avail.
Valve Seat Insert	Exh	1966-70	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Exc. CJ & SCJ w/ 1.559 Valve Head
	Exh	1958-67	20-1687-1	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Exh	1968-70	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. CJ & SCJ. w/ 1.653 Valve Head.
	Int	1958-67	20-2062-1	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
	Int	1966-70	20-2125-2	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth. Exc. CJ & SCJ w/ 2.027 Valve Head
	Int	1968-70	20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. CJ & SCJ w/ 2.090 Valve Head
Guide	Both	1958-70	30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Exh	1958-70	30-9298	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
Spring	Both	1966-70	32-907-D	2.120 Free Length. w/ Damper
	Both	1966-70	32-909-D	2.120 Free Length.
Keeper	Both	1958-70	34-613	1 Groove. Heat Treated
Lifter	Both	1958-70	36-2083	Hydraulic
	Both	1963-66	36-872	Mechanical
Valve Stem Seal	Both	1958-70	38-1036-70	Teflon And Rubber.
	Both	1958-70	38-905-25	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1958-70	38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1958-70	38-940-45	Viton. 2-Ring.
Rocker Component	Both	1958-70	40-2859	Rocker Arm. Cast
		1958-70	42-2641	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1958-67	74-5311	9.620 Length
		1968-70	74-5312	9.590 Length
Expansion Plug Kit		1958-70	97-19	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 116</b>	<b>415 C.I. (6.8L) SOHC 20V Triton Vin S</b>			<b>1997-16 V10 BORE - 3.551"/89.9mm</b>
Valve	Exh	1997-99	10-1698S	1.339 Head Dia. Inconel Head
	Exh	2000-15	10-1925	1.418 Head Dia. 4.681 OAL. Exc. CNG & LPG, Use Stellite -S Suffix.
	Int	1997-99	10-1699	1.752 Head Dia. +3 & +15 O/S Stem May Be Avail.
	Int	2000-15	10-1924	1.752 Head Dia. 4.752 OAL. Exc. CNG & LPG, Use Stellite -S Suffix.
Valve Seat Insert	Exh	1997-99	21-1375-61	1.130T I.D. 1-3/8 O.D. 0.304 Depth. Exc. CNG
	Exh	2000-15	21-1500-50	1.203T I.D. 1-1/2 O.D. 0.280 Depth. Machine to Depth. Exc. CNG and LPG, Use Nickel -N Suffix
	Int	1997-15	21-1875-56	1.600T I.D. 1-7/8 O.D. 0.252 Depth. Exc. CNG
Guide	Both	1997-15	30-8274	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 116</b>	<b>415 C.I. (6.8L) SOHC 20V Triton Vin S</b>			<b>1997-16 V10 BORE - 3.551"/89.9mm</b>
Spring	Both	1997-99	<b>32-1615</b>	1.968 Free Length
	Both	2000-15	<b>32-2487</b>	2.101 Free Length
Keeper	Both	1997-15	<b>34-281</b>	3 Round Grooves
Lifter	Both	1997-15	<b>36-2271</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1997-15	<b>38-111-45</b>	Viton. Top Hat.
Retainer	Both	2000-15	<b>55-6194</b>	Chrome Moly. 0.890 O.D. 7mm Stem
<b>LINE 117</b>	<b>415 C.I. (6.8L) SOHC 30V Vin Y Heavy Duty Triton</b>			<b>2005-14 V10 BORE - 3.55"/90.2mm</b>
Valve	Exh	2005-14	<b>10-2119</b>	1.476 Head Dia. Flex-Fuel
	Int	2005-14	<b>10-2118</b>	1.331 Head Dia. Flex-Fuel
Valve Seat Insert	Exh	2005-14	<b>21-1500-73</b>	1.230 I.D. 1-1/2 O.D. 0.278 Depth. Exc. CNG
	Int	2005-14	<b>21-1375-50</b>	1.109T I.D. 1-3/8 O.D. 0.255 Depth. Exc. CNG
Guide	Both	2005-14	<b>30-3047</b>	1.725 OAL. 0.436 O.D. 0.2371 I.D.
Spring	Both	2005-14	<b>32-04029</b>	2.174 Free Length.
Keeper	Both	2005-14	<b>34-03722</b>	3 Round Grooves
Lifter	Both	2005-14	<b>36-2305</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2005-14	<b>38-905-45</b>	Viton. Top Hat.
Rocker Component	Both	2005-14	<b>40-2930</b>	Cam Follower
<b>LINE 118</b>	<b>420 C.I. (6.9L) Navistar Diesel 16V Vin 1</b>			<b>1983-87 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1983-87	<b>10-1542</b>	1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement.
	Exh	1983-87	<b>10-1542S</b>	H.D. Stellite. 1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement. +15 O/S Stem Avail.
	Int	1983-87	<b>10-1543</b>	1.877 Head Dia. +15 O/S Stem Avail. Valve Has 0.010 Larger Margin To Save Seat Replacement
Valve Seat Insert	Int	1983-84	<b>20-1875-38</b>	1-5/8 I.D. 1-7/8 O.D. 3/16 Depth. To Be Used In Early A & B Castings Due To Thin Wall Sections
	Int	1985-87	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth, Cannot Be Used In Early Year A & B Castings Because Of Thin Casting.
	Exh	1983-87	<b>22-1669-1</b>	1.372T I.D. 1.669 O.D. 0.272 Depth. OEM # E3TZ-6057B. +15 & +30 O/S Avail.
	Int	1983-87	<b>22-1957-1</b>	Dual O.D. Seat Recommended For All Castings.
Guide	Both	1983-87	<b>30-7689</b>	2.600 OAL. OEM Repair Version Check O.D. 0.6252 O.D.
	Both	1983-87	<b>30-7712</b>	5/8 Reamer Option 0.372 Stem: 2.600 OAL. 0.627 O.D. 0.374 I.D.
Spring	Both	1983-87	<b>32-887-D</b>	2.050 Free Length. w/ Rotocaps. OEM # 317365-C11
Keeper	Both	1983-87	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1983-87	<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both	1983-87	<b>38-844-45</b>	Viton. Ring And Spring.
	Both	1983-87	<b>38-930-35</b>	Glass Filled Nylon. Umbrella.
Push Rod	Both	1983-87	<b>74-6608</b>	10.013 Length. OEM # E3TZ6565A
Expansion Plug Kit		1983-87	<b>97-97SS</b>	Avail. In Stainless Steel Only - Specially Ground Concave Plugs To OEM Specs.
<b>LINE 119</b>	<b>427 C.I. (7.0L) 16V</b>			<b>1963-69 V8 BORE - 4.233</b>
Valve Seat Insert	Exh	1963-69	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1963-69	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. Exc. CJ, SCJ & Police
Spring	Both	1963-69	<b>32-907-D</b>	2.120 Free Length. w/ Damper
Keeper	Both	1963-69	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1963-69	<b>36-2083</b>	Hydraulic

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 119</b>	<b>427 C.I. (7.0L) 16V</b>			<b>1963-69 V8 BORE - 4.233</b>
Lifter	Both	1963-69	<b>36-872</b>	Mechanical
Valve Stem Seal	Both	1963-69	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Push Rod	Both	1963-68	<b>74-5311</b>	9.620 Length. Use w/ Hydraulic Lifters
	Both	1968-69	<b>74-5312</b>	9.590 Length. Use w/ Hydraulic Lifters
Expansion Plug Kit		1963-69	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 120</b>	<b>429 C.I. (7.0L) Vin C, J, K, N, Z</b>			<b>1968-73 V8 BORE - 4.358"/110.7mm</b>
Valve	Exh	1968-72	<b>10-1102</b>	1.654 Head Dia. 5.080 OAL. Exc. Police, Cobra Jet & Special. +3, +15 O/S Stem May Be Avail.
	Exh	1973-73	<b>10-1271</b>	1.654 Head Dia. 4.983 OAL. +3, +15 O/S Stem May Be Avail.
	Int	1968-72	<b>10-1103</b>	2.083 Head Dia. 5.288 OAL Exc. Police, Cobra Jet & Special. +3, +15 O/S Stem May Be Avail.
	Int	1973-73	<b>10-1272</b>	2.083 Head Dia. 5.198 OAL. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1968-73	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O-D. 7/32 Depth. Exc. CJ, SCJ & Police
	Exh	1968-73	<b>20-1750-38</b>	1-3/4 O.D. 1-9/16 I.D. 7/32 Depth. SCJ w/ 1.725 Valve Head
	Int	1968-73	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. Exc. CJ, SCJ & Police
	Int	1968-73	<b>20-2312-4</b>	2.000 I.D. 2-5/16 O.D. 9/32 Depth. SCJ w/ 2.245 Valve Head
Guide	Both	1968-73	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1968-73	<b>32-961-D</b>	Hi-Perf. & Police, 2.026 Free Length
	Both	1968-73	<b>32-991</b>	Exc. Hi-Perf. & Police, 2.068 Free Length
Keeper	Both	1968-73	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1968-73	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rotator / Retainer	Both	1968-73	<b>37-4000</b>	Retainer. Chrome Moly. 1.320 O.D. 11/32 Stem
Valve Stem Seal	Both	1968-73	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1968-73	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1968-73	<b>38-256-35</b>	Glass Filled Nylon. Umbrella.
	Both	1968-73	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1968-73	<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
	Both	1968-73	<b>38-951-25</b>	Polyacrylic. 2-Ring.
	Both	1968-73	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Component	Both	1968-73	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1970-73	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Rocker Component		1968-73	<b>42-2940</b>	Rocker Stud. 7/16-20 x 7/16-14 x 2.6700
Push Rod		1970-73	<b>74-6274</b>	8.550 Length
Expansion Plug Kit		1968-73	<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 121</b>	<b>429 C.I. (7.0L) Carb., F.I., LPG 16V Vin 8,C,K,J</b>			<b>1979-98 V8 BORE - 4.358"/110.7mm</b>
Valve	Exh	1991-98	<b>10-1832C</b>	1.654 Head Dia. Inconel Head, Sodium Cooled & Stellite Faced
	Int	1979-91	<b>10-1386S</b>	2.064 Head Dia.
	Int	1991-98	<b>10-1548</b>	1.977 Head Dia. +15 O/S Stem May Be Avail.
	Int	1991-98	<b>10-1548S</b>	1.977 Head Dia. LPG, Stellite.
Valve Seat Insert	Exh	1979-98	<b>20-1812-21N</b>	1-15/32 I.D. 1-13/16 O.D. 5/16 Depth. Use w/ 1-13/16 Cutter. Non-Magnetic Nickl Matl.
	Int	1991-98	<b>20-2062-30</b>	1-13/16 I.D. 2-1/16 O.D. 3/16 Depth
	Int	1979-91	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
	Exh	1979-98	<b>22-1781-1N</b>	1.476 I.D. 1.781 O.D. 0.311 Depth, OEM # D9HZ-6057A
Guide	Both	1979-91	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Both	1991-98	<b>30-9459</b>	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail. 0.502 O.D.
	Exh	1979-91	<b>30-8037</b>	2.615 OAL. OEM Knock Out Type

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 121</b>	<b>429 C.I. (7.0L) Carb., F.I., LPG 16V Vin 8,C,K,J</b>			<b>1979-98 V8 BORE - 4.358"/110.7mm</b>
Spring	Both	1979-94	<b>32-1167</b>	1.970 Free Length. Exc. 1986-91 Exh. w/ 2BC
	Both	1991-98	<b>32-1420</b>	2.114 Free Length.
	Exh	1986-91	<b>32-1166</b>	2.100 Free Length.
Keeper	Both	1979-98	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1979-98	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rotator / Retainer	Both	1979-98	<b>37-4000</b>	Retainer. Chrome Moly. 1.320 O.D. 11/32 Stem
Valve Stem Seal	Both	1979-98	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1979-98	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1979-98	<b>38-260-35</b>	Glass Filled Nylon. Umbrella.
	Both	1979-98	<b>38-925-25</b>	Polyacrylic. Ring And Band.
Rocker Component	Both	1979-98	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1979-98	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Push Rod		1991-94	<b>74-6274</b>	8.550 Length
Expansion Plug Kit		1979-98	<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 122</b>	<b>430 C.I. (7.0L)</b>			<b>1958-65 V8 BORE - 4.30"/109.2mm</b>
Guide	Exh	1958-65	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1958-65	<b>30-9554</b>	2.750 OAL. Spiral 0.373 I.D. 30-7554 Plain ID Also Avail.
Spring	Both	1963-65	<b>32-798</b>	2.000 Free Length.
Keeper	Both	1958-65	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1958-65	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1958-65	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1958-65	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1958-65	<b>40-2859</b>	Rocker Arm. Cast
Expansion Plug Kit		1958-65	<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 123</b>	<b>7.3L 16V Diesel Vin CFKM Powerstroke Incl. Dir. Inj.</b>			<b>1988-05 V8 BORE - 4.1095"/104.38mm</b>
Valve	Exh	1988-95	<b>10-1542</b>	1.595 Head Dia. 0.372T Stem. Valve Has 0.010 Larger Margin To Save Seat Replacement.
	Exh	1988-95	<b>10-1542S</b>	1.595 Head Dia. 0.372T Stem. Stellite. Valve Has 0.010 Larger Margin To Save Seat Replacement.
	Exh	1988-95	<b>10-1754</b>	1.595 Head Dia. 0.3719 Stem. Hi-Nickel Head Matl. OEM # F3TZ6505B
	Exh	1994-05	<b>10-1786</b>	1.680 Head Dia. 0.3122 Stem. Dir. Inj.
	Int	1988-95	<b>10-1543</b>	1.877 Head Dia. 0.3719 Stem. +15 O/S Stem Avail. Valve Has 0.010 Larger Margin To Save Seat Replacement
	Int	1994-05	<b>10-1785</b>	1.680 Head Dia. 0.3122 Stem. Dir. Inj.
Valve Seat Insert	Exh	1994-05	<b>20-1750-4N</b>	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must cut seat angle to 37.5 Deg. Dir. Inj.
	Int	1994-05	<b>20-1750-4</b>	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must cut seat angle to 30 Deg. Dir. Inj.
	Int	1988-95	<b>20-1875-38</b>	1-5/8 I.D. 1-7/8 O.D. 3/16 Depth. To Be Used In 1988-89 Castings Due To Thin Wall Sections. .
	Int	1988-95	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth.
	Exh	1988-95	<b>22-1669-1</b>	1.372T I.D. 1.669 O.D. 0.272 Depth. OEM # E3TZ-6057B. +15, 30 O/S Avail.
	Int	1988-95	<b>22-1957-1</b>	Dual O.D. Seat Recommended For All Castings.
Guide	Both	1994-05	<b>30-3257</b>	1/2" Reamer Option 0.312 Stem: 2.440 OAL. 0.3145 I.D. 0.502 O.D. w/ Seal Boss O.D. 0.564. Type: 21-SR

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 123</b>	<b>7.3L 16V Diesel Vin CFKM Powerstroke Incl. Dir. Inj.</b>			<b>1988-05 V8 BORE - 4.1095"/104.38mm</b>
<b>Guide</b>	Both	1994-05	<b>30-6587</b>	7/16 Reamer Option 0.312 Stem: 2.500 OAL. 0.3135 I.D., Check Stem Fit. 0.439 O.D. Type 1-SR
	Both	1988-95	<b>30-7689</b>	2.600 OAL. OEM Repair Version Check O.D. 0.6252 O.D.
	Both	1988-95	<b>30-7712</b>	5/8 Reamer Option 0.372 Stem: 2.600 OAL. 0.627 O.D. 0.374 I.D.
	Both	1988-05	<b>30-8476</b>	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.565 O.D. 0.3146 I.D.
	Both	1988-05	<b>30-8562</b>	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.564 O.D. 0.3145 I.D.
<b>Spring</b>	Both	1988-05	<b>32-887-D</b>	2.050 Free Length. OEM # 317365-C11
<b>Keeper</b>	Both	1988-95	<b>34-613</b>	1 Groove. Heat Treated
	Both	1994-05	<b>34-614</b>	1 Square Groove. Heat Treated.
<b>Lifter</b>	Both	1988-05	<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
<b>Valve Stem Seal</b>	Both	1994-05	<b>38-173-45</b>	Viton. Top Hat. 0.312 Stem
	Both	1988-95	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
<b>Push Rod</b>	Both	1988-95	<b>74-6608</b>	10.013 Length. Vin C,K,M. OEM # E3TZ6565A
	Both	1994-03	<b>74-6611</b>	10.258 Length. Vin F. OEM # F4TZ6565A
<b>Injector Component</b>	Both	1988-05	<b>87-4376</b>	Injector Tube. Brass. OEM # F4TZ9F538A
<b>Expansion Plug Kit</b>		1988-05	<b>97-136SS</b>	Stainless Steel Kit
		1988-05	<b>97-173</b>	Steel Kit. Brass Kit Avail. in -B Suffix.

<b>LINE 124</b>	<b>460 C.I. (7.5L) Carb., F.I., LPG 16V Vin A,C,J,L,G</b>			<b>1968-97 V8 BORE - 4.358"/110.7mm</b>
<b>Valve</b>	Exh	1968-72	<b>10-1102</b>	1.654 Head Dia. 5.080 OAL. +3, +15 O/S Stem May Be Avail.
	Exh	1973-87	<b>10-1271</b>	1.654 Head Dia. 4.983 OAL. +3, +15 O/S Stem May Be Avail.
	Exh	1973-97	<b>10-1547</b>	1.654 Head Dia. EFI & LPG, w/ Inconel Head. +15 O/S Avail.
	Int	1968-72	<b>10-1103</b>	2.083 Head Dia. 5.228 OAL. +3, +15 O/S Stem May Be Avail.
	Int	1973-87	<b>10-1272</b>	2.083 Head Dia. 5.198 OAL. +3, +15 O/S Stem Avail.
	Int	1988-92	<b>10-1548</b>	1.977 Head Dia. +15 O/S Stem May Be Avail.
	Int	1988-97	<b>10-1548S</b>	1.977 Head Dia. LPG, Stellite.
	Int	1993-97	<b>10-1723</b>	2.083 Head Dia. +15 O/S Stem May Be Avail.
<b>Valve Seat Insert</b>	Exh	1968-87	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. Nickel Matl. -N Suffix Also Avail.
	Exh	1988-97	<b>20-1812-21N</b>	1-15/32 I.D. 1-13/16 O.D. 5/16 Depth. Use w/ 1-13/16 Cutter. Non-Magnetic Nickl Matl.
	Exh	1968-97	<b>20-H1578</b>	1.433 I.D. 1-3/4 O.D. 0.270 Depth. Iron Alloy w/ Tungsten. Hardened. Suitable For Natl. Gas.
	Int	1988-97	<b>20-2062-30</b>	1-13/16 I.D. 2-1/16 O.D. 3/16 Depth. w/ 1.977 Valve Head Dia.
	Int	1968-97	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. w/ 2.083 Valve Head Dia.
	Int	1968-97	<b>20-H1759</b>	1.9375 I.D. 2-1/4 O.D. 0.1875 Depth. Iron Alloy w/ Tungsten. Hardened. Suitable For Natl. Gas.
	Exh	1988-97	<b>22-1781-1N</b>	1.476 I.D. 1.781 O.D. 0.311 Depth
<b>Guide</b>	Both	1988-97	<b>30-9459</b>	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail.
	Both	1968-97	<b>30-9606</b>	2.375 OAL. 0.344 I.D. Spiral I.D. 30-5606 Plain I.D. Also Avail.
<b>Spring</b>	Both	1973-97	<b>32-1378</b>	2.300 Free Length. HD Spring w/ Damper
	Both	1988-95	<b>32-1420</b>	2.114 Free Length
	Both	1972-78	<b>32-961-D</b>	Hi-Perf. & Police, 2.026 Free Length
	Both	1972-87	<b>32-991</b>	2.068 Free Length
<b>Keeper</b>	Both	1968-97	<b>34-555</b>	1 Square Groove. Heat Treated
<b>Lifter</b>	Both	1968-97	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
<b>Rotator / Retainer</b>	Both	1968-97	<b>37-4000</b>	Retainer. Chrome Moly. 1.320 O.D. 11/32 Stem
<b>Valve Stem Seal</b>	Both	1968-97	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1968-97	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 124</b>	<b>460 C.I. (7.5L) Carb., F.I., LPG 16V Vin A,C,J,L,G</b>			<b>1968-97 V8 BORE - 4.358"/110.7mm</b>
Valve Stem Seal	Both	1988-97	<b>38-810-45</b>	Viton. Ring And Band. 11/32 x 0.502
	Both	1968-97	<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
	Both	1968-97	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1988-97	<b>38-938-45</b>	Viton. Ring And Band. 11/32 x 0.562
Rocker Component	Both	1972-97	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit	Both	1972-97	<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Rocker Component		1968-97	<b>42-2940</b>	Rocker Stud. 7/16-20 x 7/16-14 x 2.6700
Push Rod		1972-97	<b>74-6274</b>	8.550 Length
Expansion Plug Kit		1968-97	<b>97-21</b>	1988-97. Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 125</b>	<b>462 C.I. (7.6L) 16V</b>			<b>1966-68 V8 BORE - 4.38"/111.3mm</b>
Valve Seat Insert	Exh	1966-68	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Exh	1966-68	<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int	1966-68	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1966-68	<b>32-1016</b>	1.960 Free Length.
Keeper	Both	1966-68	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1966-68	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1966-68	<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both	1966-68	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit		1966-68	<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 126</b>	<b>474 C.I. (7.8L) Turbo Diesel Brazil 12V</b>			<b>1987-94 L6 BORE - 4.40"/111.76mm</b>
Valve	Exh	1987-94	<b>10-1758</b>	1.693 Head Dia.
	Int	1987-94	<b>10-1757</b>	1.870 Head Dia.
Valve Seat Insert	Exh	1987-94	<b>22-1733-2N</b>	1.455T I.D. 1.733 O.D. 0.365 Depth. +30 O/S Avail. CF600/800 Series
	Int	1987-94	<b>22-1962-1N</b>	1.595T I.D. 1.962 O.D. 0.365 Depth, +30 O/S Avail., CF600/800
Guide	Both	1987-94	<b>30-8409</b>	2.680 OAL
Spring	Both	1987-94	<b>32-219</b>	2.387 Free Length
Keeper	Both	1987-94	<b>34-613</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1987-94	<b>38-403-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1987-94	<b>97-121SS</b>	Stainless Steel Kit
<b>LINE 127</b>	<b>477 C.I. (7.8L) 16V Vin J,K Medium Duty</b>			<b>1958-81 V8 BORE - 4.50"/114.3mm</b>
Valve	Exh	1958-81	<b>10-1346S</b>	1.635 Head Dia. Stellite Faced
Valve Seat Insert	Exh	1958-81	<b>22-1744-1N</b>	1.445 I.D. 1.744 O.D. 0.312 Depth, OEM # B8QH-6057A
	Int	1958-81	<b>22-2220-1</b>	1.843 I.D. 2.220 O.D. 0.312 Depth. OEM # B8TZ-6057T
Guide	Both	1958-81	<b>30-9609</b>	2.625 OAL. Spiral 0.438 I.D. 30-5609 Plain I.D. Also Avail.
	Exh	1970-81	<b>30-9197</b>	3.000 OAL
Spring	Both	1967-81	<b>32-931</b>	From Late '67. 2.020 Free Length
Keeper		1958-81	<b>34-811</b>	1 Square Groove. Heat Treated
	Both	1958-81	<b>34-802</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1958-81	<b>38-261-35</b>	Glass Filled Nylon. Umbrella.
	Both	1958-81	<b>38-713-15</b>	Nitrile. Umbrella Style.
Expansion Plug Kit		1958-81	<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 128</b>	<b>534 C.I. (8.8L) 16V Vin L Medium Duty</b>			<b>1958-81 V8 BORE - 4.50"/114.3mm</b>
Valve Seat Insert	Exh	1958-81	<b>22-1744-1N</b>	1.445 I.D. 1.744 O.D. 0.312 Depth, OEM # B8QH-6057A

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 128</b>	<b>534 C.I. (8.8L) 16V Vin L Medium Duty</b>			<b>1958-81 V8 BORE - 4.50"/114.3mm</b>
Valve Seat Insert	Int	1958-81	<b>22-2220-1</b>	1.843 I.D. 2.220 O.D. 0.312 Depth. OEM # B8TZ-6057T
Guide	Both	1958-81	<b>30-9609</b>	2.625 OAL. Spiral 0.438 I.D. 30-5609 Plain I.D. Also Avail.
	Exh	1970-81	<b>30-9197</b>	3.000 OAL
Keeper		1958-81	<b>34-811</b>	1 Square Groove. Heat Treated
	Both	1958-81	<b>34-802</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1958-81	<b>38-261-35</b>	Glass Filled Nylon. Umbrella.
Expansion Plug Kit		1958-81	<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B

ENGINE	YEAR	CYL.	LINE NO.
153 C.I. (2.5L) GM Marine 8V		L4	1
181 C.I. (3.0L) GM Marine 8V		L4	2
230 C.I. (3.8L) GM Marine 12V		L6	3
250 C.I. (4.1L) GM Marine 12V		L6	4
283 C.I. (4.6L) GM Marine 16V		V8	5
302 C.I. (5.0L) GM Marine 16V		V8	6
305 C.I. (5.0L) GM Marine 16V		V8	7
307 C.I. (5.0L) GM Marine 16V		V8	8
327 C.I. (5.4L) GM Marine 16V		V8	9
350 C.I. (5.7L) GM Marine 16V		V8	10
454, 502 C.I. (7.4L) GM Marine 16V		V8	11
496 C.I. (8.1L) GM Marine Vortec 12V		V6	12

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>153 C.I. (2.5L) GM Marine 8V</b>			<b>L4 BORE - 3.875"/98.4mm</b>
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Valve	Exh		10-1206S	1.500 Head Dia. +15 O/S Stem Avail. To S/N 3377340
	Exh		10-1646S	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both		32-575	2.030 Free Length. 1st Design w/o Rotator
	Both		32-685-D	2.050 Free Length. 2nd Des. Use w/o Rotator. w/ Damper
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Rocker Component	Both		40-2844	Rocker Arm. Stamped
Rocker Kit	Both		41-2402	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Push Rod			74-6317	9.682 Length
Expansion Plug Kit			97-7B	Brass Kit

<b>LINE 2</b>	<b>181 C.I. (3.0L) GM Marine 8V</b>			<b>L4 BORE - 4.00"/101.6mm</b>
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Valve	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh		10-919	1.600 Head Dia.
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
	Int		10-1195	1.940 Head Dia. 0.341 Stem Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth, w/ 1.500 Valve Head
	Exh		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.600 Valve Head.
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.720 Valve Head Dia.
	Int		20-2000-7	1-13/16 I.D. 2.000 O.D. 7/32 Depth. w/ 1.940 Valve Head Dia.
	Int		20-2125-31	1-13/16 I.D. 2-1/8 O.D. 7/32 Depth. w/ 1.940 Valve Head
Guide	Exh		30-9946	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.
	Int		30-7459	0.3430 I.D., 0.5020 O.D., 2.375 Length, Plain I.D. Conversion Guide
	Int		30-9459	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail.
Spring	Both		32-1268	2.110 Free Length



COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 2</b>	<b>181 C.I. (3.0L) GM Marine 8V</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Spring	Both		32-685-D	2.050 Free Length. w/ Damper
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-969	Hydraulic
Valve Stem Seal	Both		38-819-45	Viton. Ring And Band.
	Both		38-938-45	Viton. Ring And Band. Use w/ 0.552 O.D. Guide
Rocker Component	Both		40-2844	Rocker Arm. Stamped
Rocker Kit	Both		41-2402	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Push Rod			74-6317	9.682 Length
Expansion Plug Kit			97-35B	Brass Kit
<b>LINE 3</b>	<b>230 C.I. (3.8L) GM Marine 12V</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Spring	Both		32-685-D	2.050 Free Length. 2nd Des. Use w/ Rotator. w/ Damper
	Both		32-886	1.900 Free Length. w/o Rotator
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-969	Hydraulic
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. 1986 - Early 1987 Guide Height 5.8mm
	Both		38-810-45	Viton. Ring And Band. 1986 - Early 1987 Guide Height 5.8mm
	Both		38-938-45	Viton. Ring And Band.
Rocker Component	Both		40-2844	Rocker Arm. Stamped
Rocker Kit	Both		41-2402	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Push Rod			74-6317	9.682 Length
Expansion Plug Kit			97-7B	Brass Kit
<b>LINE 4</b>	<b>250 C.I. (4.1L) GM Marine 12V</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int		30-9867	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both		32-685-D	2.050 Free Length. w/ Damper
	Both		32-886	1.900 Length
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-969	Hydraulic
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. 1986 - Early 1987 Guide Height 5.8mm
	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both		38-951-25	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both		40-2844	Rocker Arm. Stamped
Rocker Kit	Both		41-2402	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Push Rod			74-6317	9.682 Length

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>250 C.I. (4.1L) GM Marine 12V</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Expansion Plug Kit			97-7B	Brass Kit
<b>LINE 5</b>	<b>283 C.I. (4.6L) GM Marine 16V</b>			<b>V8 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both		32-1943-D	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both		32-575	1.212/1.218 O.D. 2.030 Free Length
	Both		32-685-D	2.050 Free Length. w/ Damper
	Both		32-880-D	2.030 Free Length. w/ Damper. 1.222 O.D.
	Both		32-943-D	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber
	Both		38-1090-75	All Teflon. 11/32 x 0.500
	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both		38-810-45	Viton. Ring And Band.
	Both		38-951-25	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both		40-2736	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both		40-2840	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both		40-2842	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both		41-1736	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both		41-2401	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both		41-2508	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component			42-2921	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Expansion Plug Kit			97-100B	Brass Kit
<b>LINE 6</b>	<b>302 C.I. (5.0L) GM Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>
Valve	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int		30-9867	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both		32-1943-D	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both		32-880-D	2.030 Free Length. w/ Damper. Exc. 1976-77 Exh
	Both		32-943-D	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both		34-555	1 Square Groove. Heat Treated
Lifter	Both		36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both		36-992	Mechanical High Performance

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
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<b>LINE 6</b>	<b>302 C.I. (5.0L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 4.00"/101.6mm</b>
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Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber
	Both		<b>38-810-45</b>	Viton. Ring And Band.
	Both		<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both		<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both		<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both		<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both		<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both		<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both		<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component			<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.

<b>LINE 7</b>	<b>305 C.I. (5.0L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 3.736"/94.89mm</b>
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Valve	Exh		<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh		<b>10-1294S</b>	1.500 Head Dia. 0.372 Stem. Stellite Faced & Chrome Plated.
	Exh		<b>10-1646S</b>	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face
	Int		<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
	Int		<b>10-1393</b>	1.840 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Exh		<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth, From S/N 4765100
	Int		<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Int		<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth.
Guide	Int		<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both		<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both		<b>32-880-D</b>	Exc. 1976-77 Exh. 2.030 Free Length. w/ Damper
	Both		<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Exh		<b>32-1038-D</b>	1.910 Free Length. w/ Damper
Keeper	Both		<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both		<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Valve Stem Seal	Both		<b>38-1045-70</b>	Viton. Ring And Band.
	Both		<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		<b>38-810-45</b>	Viton. Ring And Band.
	Both		<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both		<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both		<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both		<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both		<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both		<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both		<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component			<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Expansion Plug Kit			<b>97-100B</b>	Brass Kit

<b>LINE 8</b>	<b>307 C.I. (5.0L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 3.875"/98.4mm</b>
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Valve	Exh		<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 8</b>	<b>307 C.I. (5.0L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Int		10-1195	1.940 Head Dia. 0.341 Stem Chrome Plated. +3, +15 O/S Stem Avail.	
Valve Seat Insert	Exh		20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth	
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.720 Valve Head Dia.	
	Int		20-2000-7	1-13/16 I.D. 2.000 O.D. 7/32 Depth. w/ 1.940 Valve Head Dia.	
	Int		20-2125-31	1-13/16 I.D. 2-1/8 O.D. 7/32 Depth. w/ 1.940 Valve Head	
Guide	Both		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
Spring			32-1943-D	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper	
	Both		32-1038-D	1.910 Free Length. w/ Damper	
	Both		32-880-D	2.030 Free Length. Exc. 1972-73 Exh. w/ Damper	
	Both		32-943-D	2.040 Free Length. w/ Damper, Hi-Perf.	
Keeper	Both		34-555	1 Square Groove. Heat Treated	
Lifter	Both		36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
Valve Stem Seal	Both		38-1045-70	Viton. Ring And Band.	
	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562	
	Both		38-810-45	Viton. Ring And Band.	
Rocker Component	Both		40-2842	Rocker Arm, 1.5 Stamped 3/8 Hole	
Rocker Kit	Both		41-2401	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut	
Rocker Component			42-2921	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Expansion Plug Kit			97-100	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 9</b>	<b>327 C.I. (5.4L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh		10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.	
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Int		10-1195	1.940 Head Dia. 0.341 Stem Chrome Plated. +3, +15 O/S Stem Avail.	
Valve Seat Insert	Exh		20-1562-2	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.	
	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.	
Guide	Exh		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.	
	Int		30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
Spring	Both		32-685-D	2.050 Free Length. w/ Damper	
	Both		32-880-D	2.030 Free Length. w/ Damper	
Keeper	Both		34-555	1 Square Groove. Heat Treated	
Rocker Component	Both		40-2842	Rocker Arm, 1.5 Stamped 3/8 Hole	
Rocker Kit	Both		41-2401	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut	
Rocker Component			42-2921	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Expansion Plug Kit			97-100	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 10</b>	<b>350 C.I. (5.7L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh		10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Exh		10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.	
	Exh		10-1294S	1.500 Head Dia. 0.372 Stem. Stellite Faced & Chrome Plated.	
	Exh		10-1646S	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face	
	Exh		10-1807S	1.500 Head Dia. Stellite. 4.920 OAL. 1 Groove	
	Int		10-1193	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail. 0.342 Stem	

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 10</b>	<b>350 C.I. (5.7L) GM Marine 16V</b>			<b>V8 BORE - 4.00"/101.6mm</b>
Valve	Int		<b>10-1195</b>	1.940 Head Dia. 0.341 Stem Chrome Plated. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Exh		<b>20-1562-1N</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. LPG, Non-Magnetic Nickel
	Exh		<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int		<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Int		<b>20-2000-7</b>	1-13/16 I.D. 2.000 O.D. 7/32 Depth. w/ 1.940 Valve Head Dia.
	Int		<b>20-2125-31</b>	1-13/16 I.D. 2-1/8 O.D. 7/32 Depth
	Guide	Both		<b>30-8180</b>
Exh			<b>30-7999</b>	2.200 OAL. w/ Replaceable Exh. Guide. Use Caution When Removing Stepped O.D.
Exh			<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 30-6107 Plain I.D. Also Avail.
Exh			<b>30-9946</b>	2.250 OAL. Spiral 0.343 I.D. 30-7946 Plain I.D. Also Avail.
Int			<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both		<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both		<b>32-880-D</b>	Exc. 1973-80 Exh. 2.030 Free Length. w/ Damper
	Both		<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Exh		<b>32-1038-D</b>	1.910 Free Length. w/ Damper
Keeper	Both		<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both		<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Rotator / Retainer	Both		<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both		<b>38-1045-70</b>	Viton. Ring And Band.
	Both		<b>38-1054-70</b>	Teflon And Rubber
	Both		<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both		<b>38-1090-75</b>	All Teflon. 11/32 x 0.500
	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both		<b>38-810-45</b>	Viton. Ring And Band.
	Both		<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Rocker Component	Both		<b>40-2736</b>
Both			<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
Both			<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both		<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both		<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both		<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component		<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Expansion Plug Kit		<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B	

<b>LINE 11</b>	<b>454, 502 C.I. (7.4L) GM Marine 16V</b>			<b>V8 BORE - 4.25"/108mm</b>
Valve	Exh		<b>10-1261S</b>	1.720 Head Dia. Stellite.
	Exh		<b>10-1578S</b>	1.720 Head Dia. Stellite. Inconel Head
	Exh		<b>10-1578SP</b>	1.720 Head Dia. Inconel, Stellite, Nitrided. For Natl. Gas. 45 Degree
	Int		<b>10-1164</b>	2.190 Head Dia. 454 From S/N 4501641 To S/N 4623114
Valve Seat Insert	Exh		<b>20-1812-4N</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth. Nickel
	Exh		<b>20-2000-3N</b>	1-5/8 I.D. 2.000 O.D. 19/64 Depth. Universal O/S To Replace Exh. Nickel Matl.
	Int		<b>20-2250-35</b>	1-5/16 I.D. 2-1/4 O.D. 7/32 Depth

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 11</b>	<b>454, 502 C.I. (7.4L) GM Marine 16V</b>			<b>V8</b>	<b>BORE - 4.25"/108mm</b>
<b>Guide</b>	Both		<b>30-1973</b>	2.420 OAL	
	Exh		<b>30-1972</b>	2.630 OAL. Use Caution When Removing Stepped O.D.	
<b>Spring</b>	Both		<b>32-1009</b>	2.120 Free Length. Double Spring	
	Both		<b>32-1041-D</b>	2.093 Free Length. w/ Damper	
	Both		<b>32-864-D</b>	2.050 Free Length. w/ Damper	
<b>Keeper</b>	Both		<b>34-613</b>	1 Groove. Heat Treated	
<b>Lifter</b>	Both		<b>36-2279</b>	Hydraulic Roller	
	Both		<b>36-2279G</b>	Lifter Guide, Dogbone Type	
	Both		<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
	Both		<b>36-969</b>	Hydraulic. Gen. V	
	Both		<b>36-992</b>	Mechanical High Performance	
<b>Rotator / Retainer</b>	Both		<b>37-1046</b>	Rotator. OEM # 14081046	
<b>Valve Stem Seal</b>	Both		<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562	
	Both		<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.	
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.	
<b>Rocker Component</b>	Both		<b>40-2867</b>	Rocker Arm. Stamped. 1.72 Ratio	
	Both		<b>40-2868</b>	Rocker Arm, BBC 1.72 Long Slot w/.560 Lift	
<b>Rocker Kit</b>	Both		<b>41-2504</b>	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball	
	Both		<b>41-2507</b>	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball	
<b>Push Rod</b>	Exh		<b>74-6442</b>	9.252 Length. 1st Des. 3/8 Dia.	
	Int		<b>74-6441</b>	8.280 Length. 1st Des. 3/8 Dia.	
<b>Expansion Plug Kit</b>			<b>97-10</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 12</b>	<b>496 C.I. (8.1L) GM Marine Vortec 12V</b>			<b>V6</b>	<b>BORE - 4.25"/108mm</b>
<b>Valve</b>	Exh		<b>10-2126S</b>	1.720 Head Dia. Inconel	
	Int		<b>10-1164</b>	2.190 Head Dia. Stainless Option	
	Int		<b>10-2101</b>	2.187 Head Dia.	
<b>Valve Seat Insert</b>	Int		<b>20-2250-1</b>	1-15/16 I.D. (Non-Tapered) 2-1/4 O.D. 3/16 Depth. Machine I.D. To Fit	
	Exh		<b>22-1784-1N</b>	1.417T I.D. 1.7845 O.D. 0.292 Depth. w/ Factory Installed Exh. Seat. May Need Depth Change.	
	Exh		<b>22-1784-2N</b>	Same as 22-1781-1N w/ straight I.D.	
<b>Guide</b>	Exh		<b>30-3024</b>	2.610 OAL. Replaces Integral Guide. Remove From Combustion Side.	
	Int		<b>30-3025</b>	2.250 OAL. Replaces Integral Guide.	
<b>Spring</b>	Both		<b>32-2522</b>	2.212 Free Length. Conical	
<b>Keeper</b>	Both		<b>34-613</b>	1 Square Groove. Heat Treated	
<b>Lifter</b>	Both		<b>36-2279</b>	Hydraulic Roller	
	Both		<b>36-2279G</b>	Lifter Guide, Dogbone Type	
<b>Rotator / Retainer</b>	Both		<b>37-2899</b>	Rotator. OEM # 10240899	
<b>Valve Stem Seal</b>	Both		<b>38-811-55</b>	Viton. Metal Clad.	
<b>Rocker Component</b>	Both		<b>40-9111</b>	Rocker Arm, Stamped	
<b>Push Rod</b>	Exh		<b>74-6639</b>	9.132 Length	
	Int		<b>74-6638</b>	8.190 Length.	

ENGINE	YEAR	CYL.	LINE NO.
993cc (1.0L) SOHC G10 6V Vin M, 5 (Suzuki)	1985-88	L3	1
993cc (1.0L) SOHC G10 6V Vin 6 (Suzuki)	1989-00	L3	2
993cc (1.0L) SOHC G10 6V Turbo G10 (Suzuki) Vin 2	1987-91	L3	3
995cc (1.0L) 8V B10S1 Vin K,M	2004-11	L4	4
1249cc (1.2L) DOHC 16V	2013-15	L4	5
1295cc (1.3L) SOHC 8V G13A Vin 2, 9 (Suzuki)	1992-01	L4	6
1364cc (1.4L) DOHC 16V Vin 9 LUJ	2010-16	L4	7
1389cc (1.4L) DOHC 16V (non-USA) X/Z14XE	2002-05	L4	8
85 C.I. (1.4L) SOHC 8V Vin I	1976-77	L4	9
85 C.I. (1.4L) 8V SOHC (Non-USA) Vin 2 C14NZ	1994-03	L4	10
1471cc (1.5L) SOHC 8V 4XC1 (Isuzu) Vin 7, K	1985-89	L4	11
1471cc (1.5L) Turbo 4XC1T (Isuzu) Vin 9 8V SOHC	1986-89	L4	12
1588cc (1.6L) SOHC 8V 4ALC (Toyota) Vin 4	1985-88	L4	13
1588cc (1.6L) DOHC 16V 4AGE (Toyota) Vin 5	1988-92	L4	14
1588cc (1.6L) SOHC Korean Vin 6 8V	1988-93	L4	15
1588cc (1.6L) DOHC 16V 4AF, AFE (Toyota) Vin 5, 6	1989-97	L4	16
1588cc (1.6L) SOHC 12V (4XE1V Isuzu) Vin 6	1990-93	L4	17
1588cc (1.6L) SOHC 16V G16KV (Suzuki) Vin 6	1994-02	L4	18
1588cc (1.6L) DOHC 16V (4XE1W Isuzu) Vin 5	1990-91	L4	19
1590cc (1.6L) SOHC 8V G16KC (Suzuki) Vin U	1989-95	L4	20
1598cc (1.6L) DOHC 16V Vin 6,N	2004-09	L4	21
1598cc (1.6L) DOHC 16V Vin E,G	2009-16	L4	22
1.6L (98C.I.) SOHC 8V C16N2/E (Non-USA)	1996-09	L4	23
98 C.I. (1.6L) SOHC Chevette 8V Vin 9, C, E	1976-87	L4	24
1788cc (1.8L) DOHC 16V 7AFE (Toyota) Vin 8	1993-97	L4	25
1794cc (1.8L) DOHC 16V 1ZZFE (Toyota) Vin 8	1998-10	L4	26
1795cc (1.8L) DOHC 16V 2ZZGE (Toyota) Vin L	2003-06	L4	27
1796cc (1.8L) SOHC 8V C18NZ [Opel] (non-USA)	2003-11	L4	28
1796cc (1.8L) DOHC 16V Vin G,H	2010-16	L4	29
1798cc (1.8L) DOHC 16V Vin 8 (2ZRFE Toyota)	2009-10	L4	30
1799cc (1.8L) DOHC 16V X18X, Z18X (Non-USA)	2000-06	L4	31
1809cc (1.8L) DOHC 16V 4XF1 (Isuzu) Vin 8	1992-93	L4	32
1817cc (1.8L) SOHC 8V Isuzu G180Z Vin B, N	1972-82	L4	33
1819cc (1.8L) OHV Diesel 4FB1 (Isuzu) Vin D 8V	1981-86	L4	34
112 C.I. (1.8L) Chev. 8V Vin G OHV	1982-82	L4	35
112 C.I. (1.8L) SOHC Pontiac (Brazil) 8V Vin 0, J	1982-86	L4	36
116 C.I. (1.9L) SOHC Saturn 8V Vin 8, 9	1991-02	L4	37
116 C.I. (1.9L ) DOHC 16V Saturn Vin 7	1991-02	L4	38
1949cc (1.9L) SOHC 8V G200Z (Isuzu) Vin A	1982-85	L4	39
122 C.I. (2.0L) Chev. 8V Vin B, P, Y	1983-86	L4	40
122 C.I. (2.0L) Chev. 8V Vin 1 OHV	1987-89	L4	41
1995cc (2.0L) DOHC 16V J20 Vin C (Suzuki)	1999-08	L4	42
1998cc (2.0L) SOHC 8V Opel C20NE (Non-USA)	2004-06	L4	43
122 C.I. (2.0L) DOHC 16V VIN X LTG	2013-16	L4	44
122 C.I. (2.0L) DOHC 16V Vin P,V Ecotec	2004-13	L4	45
122 C.I. (2.0L) SOHC Vin H K M Pontiac Turbo 8V	1987-94	L4	46
122 C.I. (2.0L) DOHC 16V E-TEC II Vin Z	2004-11	L4	47
134 C.I. (2.2L) DOHC 16V Vin 2,6,B,D,F,H Ecotec	2000-11	L4	48
134 C.I. (2.2L) Chev. OHV 8V Vin G,4	1990-02	L4	49
2198cc (2.2L) SOHC 8V C22NE	1999-05	L4	50
134 C.I. (2.2L) 8V OHV Vin 4, 5, H Flex-Fuel	1994-03	L4	51
2238cc (2.2L) OHV Diesel 8V (Isuzu) Vin S	1981-84	L4	52
2254cc (2.3L) SOHC 8V 4ZD1 (Isuzu)	1996-98	L4	53
140, 145, 164 C.I. Corvair	1960-69	L6	54

138 C.I. (2.3L) DOHC 16V Olds Quad 4 Vin D	1987-95	L4	55
138 C.I. (2.3L) DOHC 16V Olds Quad 4 Vin A	1989-94	L4	56
138 C.I. (2.3L) SOHC 8V Vin 3	1992-94	L4	57
140 C. I. (2.3L) SOHC 8V Vin A,B	1971-77	L4	58
2362cc (2.4L) DOHC 16V (Toyota) 2AZFE	2009-10	L4	59
145 C.I. (2.4L) DOHC 16V Vin 5,B,P,R Ecotec	2006-16	L4	60
145 C.I. (2.4L) DOHC 16V Quad Vin T	1996-02	L4	61
2457cc (2.5L) DOHC 16V Vin A Ecotec	2013-16	L4	62
2494cc (2.5L) DOHC 24V H25A (Suzuki) Vin 4	1999-04	V6	63
151 C.I. (2.5L) OHV 8V Pontiac Vin 1,2,5,9,AEF,R,U,V	1977-93	L4	64
153 C.I. (2.5L) Chev. 8V	1962-70	L4	65
169 C.I. (2.8L) DOHC 16V Vortec Vin 8	2004-06	L4	66
170 C.I. (2.8L) DOHC 24V Vin 1,4,6,T	2005-11	V6	67
173 C.I. (2.8L) Chev. OHV 12V Vin 1,7,9,BLRSWXZ	1980-93	V6	68
2921cc (2.9L) DOHC 16V VIN 9	2007-12	L4	69
181 C.I. (3.0L) Buick Vin E,L OHV 12V	1982-88	V6	70
2997cc (3.0L) DOHC 24V Vin 5,G,Y	2010-14	V6	71
181 C.I. (3.0L) F.I. DOHC 24V Vin B,R	1997-05	V6	72
189 C.I. (3.1L) Chev. OHV 12V Vin D,T,V,W	1988-95	V6	73
189 C.I. (3.1L) Chev. 12V Vin J, M OHV	1994-05	V6	74
194 C.I. (3.2L) Chev. 12V	1962-67	L6	75
194 C.I. (3.2L) 8V	1961-63	L4	76
197 C.I. (3.2L) DOHC 24V Cad. Vin N	2003-04	V6	77
196 C.I. (3.2L) Buick 12V OHV Vin C	1978-79	V6	78
200 C.I. (3.3L) Chev. 12V OHV Vin M	1978-79	V6	79
204 C.I. (3.3L) Buick 12V Vin N OHV	1989-93	V6	80
207 C.I. (3.4L) DOHC 24V Vin X	1991-97	V6	81
207 C.I. (3.4L) 12V Vin E,F,S,8 OHV	1993-09	V6	82
3471cc (3.5L) SOHV 24V (Honda) J35	2004-08	V6	83
211 C.I. (3.5L) OHV 12V VIN 8,L	2004-07	V6	84
211 C.I. (3.5L) DOHC 20V Vortec Vin 6	2004-06	L5	85
214 C.I. (3.5L) DOHC 24V Vin H	1999-02	V6	86
214 C.I. (3.5L) OHV 12V VVT Vin K,N	2006-11	V6	87
215 C.I. (3.5L) 16V BUICK	1961-63	V8	88
215 C.I. (3.5L) 12V Pontiac	1964-65	L6	89
216 C.I. (3.5L) Chev. 12V	1937-53	L6	90
217 C.I. (3.6L) DOHC 24V VIN 3,7,8,B,D,V	2004-16	V6	91
3.7L (223 C.I.) DOHC 20V VVT Vin E	2007-12	L5	92
224 C.I. (3.7L) 16V	1955-56	V8	93
225 C.I. (3.7L) Buick	1964-67	V6	94
228 C.I. (3.7L) 12V	1941-53	V6	95
229 C.I. (3.8L) Chev. 12V OHV Vin 9, K	1980-84	V6	96
230 C.I. (3.8L) OHC 12V	1966-67	L6	97
230 C.I. (3.8L) Chev. 12V Vin S	1963-70	L6	98
231 C.I. (3.8L) Buick 12V Vin ABCGKL1234789 OHV	1975-09	V6	99
235 C.I. (3.8L) Chev. 12V	1941-62	L6	100
237 C.I. (3.9L) OHV 12V VVT Vin 1,M,W	2006-11	V6	101
238, 248 (4.1L), 263 C.I. Buick	1941-55	V8	102
239C.I. (3.9L) Turbo Diesel Cummins Vin L OHV 8V	1989-91	L4	103
244 C.I. (4.0L) DOHC 32V Northstar Vin C	1995-03	V8	104
250 C.I. (4.1L) 12V OHC Pontiac	1968-69	L6	105
250 C.I. (4.1L) Chev. 12V Vin CDLNPQS OHV	1966-84	L6	106
252 C.I. (4.1L) Buick 12V Vin 4 OHV	1980-84	V6	107
250 C.I. (4.1L) Cadillac 16V Vin 7, 8 OHV	1982-88	V8	108
256 C.I. (4.2L) DOHC 24V Vin S, X Vortec	2002-09	L6	109
259 C.I. (4.2L) 16V OHV 16V	1955-64	V8	110



260 C.I. (4.3L) Olds Vin 8, F OHV 16V	1975-82	V8	111
260 C.I. (4.3L) Olds Diesel Vin T, V 12V OHV	1982-85	V6	112
261, 265 C.I. (4.3L) Chev.	1954-62		113
262 C.I. (4.3L) Carb. Chev. Vin G OHV 16V	1975-76	V8	114
262 C.I. (4.3L) OHV 12V Vin B, N, X, W, Z	1985-14	V6	115
262 C.I. (4.3L) OHV 12V Vin H	2014-16	V6	116
265 C.I. (4.3L) Pontiac 16V Vin S OHV	1980-81	V8	117
265 C.I. (4.3L) Chev. Hi-Perf. Vin W 16V OHV	1994-96	V8	118
267 C.I. (4.4L) Chev. Vin J OHV 16V	1979-82	V8	119
267 C.I. (4.4L) DOHC 32V Vin D	2006-09	V8	120
270 C.I. (4.4L) 12V	1941-63	V6	121
273 C.I. (4.5L) Cadillac Vin 3, 5, 8 OHV 16V	1988-92	V8	122
281 C.I. (4.6L) DOHC 32V Northstar Vin A, Y, 9	1993-11	V8	123
283 C.I. (4.6L) Chev. 16V OHV	1955-67	V8	124
287 C.I. (4.7L) 16V	1955-55	V8	125
289 C.I. (4.7L) 16V	1956-59	V8	126
292 C.I. (4.8L) Chev. 12V Vin S, T	1963-89	L6	127
4.8L SOHC 16V Diesel 4HE1 (Isuzu) Turbo	2000-04	L4	128
294 C.I. (4.8L) OHV 16V Vin A,C,V Vortec	1999-15	V8	129
300 C.I. (4.9L) Buick	1964-67	V8	130
300 C.I. (4.9L) Vin B Cadillac OHV 16V	1991-95	V8	131
301 C.I. (4.9L) Pontiac Vin W, Y & T (Turbo) OHV 16V	1977-81	V8	132
302 C.I. (5.0L) 12V	1952-59	V6	133
302 C.I. (5.0L) Chev. 16V	1967-69	V8	134
303 C.I. (5.0L) 16V	1950-53	V8	135
305 C.I. (5.0L) Chev. 16V Vin 7,E,F,G,H,M,Q,S,U	1976-02	V8	136
305 C.I. (5.0L) GMC 12V Vin A, B, C, D, E	1960-69	V6	137
307 C.I. (5.0L) 16V Vin ABCDEFHMNP7	1968-73	V8	138
307 C.I. (5.0L) OHV 16V Vin 9 (H.O.),Y	1980-90	V8	139
316 C.I. (5.2L)	1956-56	V8	140
5.2L (317 C.I.) SOHC 16V 4HK1 Diesel (Isuzu)	2005-12	L4	141
324 (5.3L), 371, 394 C.I.	1954-64	V8	142
5.3L (325 C.I.) OHV 16V Vin 0137BCJMPTZ (Vortec)	1999-14	V8	143
5.3L (325 C.I.) OHV 16V Vin C L83	2014-16	V8	144
326 C.I. (5.3L) 16V "Pontiac"	1963-67	V8	145
327 C.I. (5.4L) Chev. 16V Vin E, HJ	1962-69	V8	146
330 C.I. (5.4L) Olds	1964-67	V8	147
331, 365, 390 C.I. Cadillac	1949-63	V8	148
336 C.I. (5.5L)	1958-59	V8	149
340 C.I. (5.6L) Buick	1966-67	V8	150
346 C.I. (5.7L) Cadillac	1946-48	V8	151
347 C.I. (5.7L)	1957-57	V8	152
348 C.I. (5.7L)	1958-65	V8	153
350 C.I. (5.7L) Chev. 16V Vin 5678GKLMPSRW	1967-05	V8	154
350 C.I. (5.7L) Pontiac K,P OHV	1968-77	V8	155
350 C.I. (5.7L) Olds 16V Vin B, R, 8 OHV	1968-80	V8	156
350 C.I. (5.7L) Buick H, J, X OHV	1968-81	V8	157
350 C.I. (5.7L) OHV 16V Olds Diesel Vin N,Z	1978-85	V8	158
351 C.I. (5.8L) 12V Vin C, E, M	1960-72	V6	159
364 C.I. (6.0L) OHC 16V Vortec VIN H,K,N,U,Y,5	1999-16	V8	160
366 C.I. (6.0L) Vin E, L, N, P	1966-98	V8	161
368 C.I. (6.0L) Cadillac Carb. & F.I. Vin 6, 9 16V	1980-84	V8	162
370 C.I. (6.1L) 16V	1958-58	V8	163
6.2L (378 C.I.) OHV 16V VVT Vin J,R,T,W,2,6,7.8	2007-16	V8	164
6.2L (376 C.I.) OHV 16V Vin J L86	2014-16	V8	165
379 C.I. (6.2L) 12V	1973-75	V6	166

6.2L (381 C.I.) Diesel 16V Vin C, J OHV	1982-93	V8	167
389 C.I. (6.4L) Pontiac	1959-66	V8	168
395 C.I. (6.5L) OHV 16V Turbo Diesel Vin F,P,S,Y,Z	1992-04	V8	169
396/400/402 C.I. Chev. Big Block 16V Vin E,K,S,U	1965-72	V8	170
400 C.I. (6.6L) Small Block OHV 16V Vin MNRSUX	1970-80	V8	171
400, 401 C.I. (6.6L) Buick 16V	1959-69	V8	172
400 C.I. (6.6L) Olds 16V	1965-69	V8	173
400 C.I. (6.6L) Pontiac 16V Vin N,P,R,S,T,X,Y,Z	1967-79	V8	174
400 C.I. (6.6L) Duramax Diesel Vin 12368DL OHV 32V	2001-16	V8	175
401 C.I. (6.6L) M	1966-73	V6	176
403 C.I. (6.6L) Olds OHV 16V Vin K	1977-79	V8	177
409 C.I. (6.7L) Chev. 16V	1961-65	V8	178
421 C.I. (6.9L) Pontiac	1963-66	V8	179
425 C.I. (7.0L) Cadillac Vin S, T OHV	1977-79	V8	180
425 C.I. (7.0L) Olds 16V	1965-67	V8	181
427 C.I. (7.0L) Chev. 16V Incl. Perf.	1966-69	V8	182
427 C.I. (7.0L) 16V Medium and Heavy Duty	1968-98	V8	183
427 C.I. (7.0L) OHV 16V Vin E LS7	2006-15	V8	184
428 C.I. (7.0L) Pontiac	1967-69	V8	185
429 C.I. (7.0L) Carb. 16V Cadillac	1964-67	V8	186
430 C.I. (7.0L) Buick	1967-69	V8	187
432 C.I. (7.1L) 12V	1973-75	V6	188
454 C.I. (7.4L) 16V Light Duty Vin BJNSVWXYZ	1970-00	V8	189
454 C.I. (7.4L) Medium Duty Vin S,W	1979-81	V8	190
455 C.I. (7.5L) Olds 16V OHV, Vin R, S, T	1968-76	V8	191
455 C.I. (7.5L) Buick 16V Vin P,R,T,U,V,W	1970-76	V8	192
455 C.I. (7.5L) Pontiac Vin U,V,W,X,Y, OHV	1970-76	V8	193
472 C.I. (7.7L) Cadillac Vin R	1968-74	V8	194
7780cc (7.8L) SOHC 6HK1 24V Diesel (Isuzu) Vin 3,B	1999-09	L6	195
478 C.I. (7.8L) Diesel 12V	1961-74	V6	196
478 C.I. (7.8L) Gas 12V	1962-65	V6	197
478 C.I. (7.8L) 12V Vin M	1973-75	V6	198
496 C.I. (8.1L) 16V Vortec Vin G OHV	2001-09	V8	199
500 C.I. (8.2L) Cadillac Vin S OHV	1970-76	V8	200
637 C.I. (10.4L) 16V OHV	1966-72	V8	201
702 C.I. (11.6L) 24V	1960-65	V12	202

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
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<b>LINE 1</b>	<b>993cc (1.0L) SOHC G10 6V Vin M, 5 (Suzuki)</b>			<b>1985-88 L3</b>	<b>BORE - 2.913"/74mm</b>
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Valve	Exh	1985-88	10-10102S	1.181 Head Dia.
	Int	1985-88	10-10103	1.417 Head Dia.
Valve Seat Insert	Exh	1985-88	21-1375-64	1.000 I.D. 1-3/8 O.D. 0.280 Depth.
	Int	1985-88	21-1562-77	1.170 I.D. 1-9/16 O.D. 0.267 Depth
Guide	Both	1985-88	30-8016	1.895 OAL. +2 O/S Avail.
Spring	Both	1985-88	32-1377	1.982 Free Length
Keeper	Both	1985-88	34-5009	1 Round Groove
Valve Stem Seal	Both	1985-88	38-700-45	Viton. Metal Clad.

<b>LINE 2</b>	<b>993cc (1.0L) SOHC G10 6V Vin 6 (Suzuki)</b>			<b>1989-00 L3</b>	<b>BORE - 2.913"/74mm</b>
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Valve	Exh	1989-00	10-10170	1.102 Head Dia.
	Int	1989-00	10-10169	1.378 Head Dia.
Valve Seat Insert	Exh	1989-00	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
	Int	1989-00	21-1500-77	1.175T I.D. 1-1/2 O.D. 0.236 Depth.
Guide	Both	1989-00	30-8324	1.260 OAL

# GM

# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 2</b>	<b>993cc (1.0L) SOHC G10 6V Vin 6 (Suzuki)</b>			<b>1989-00 L3</b>	<b>BORE - 2.913"/74mm</b>
Keeper	Both	1989-00	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Lifter	Both	1989-00	<b>36-2272</b>	Hydraulic Bucket	
Valve Stem Seal	Both	1989-00	<b>38-701-45</b>	Viton. Metal Clad.	
<b>LINE 3</b>	<b>993cc (1.0L) SOHC G10 6V Turbo G10 (Suzuki) Vin 2</b>			<b>1987-91 L3</b>	<b>BORE - 2.913"/74mm</b>
Valve	Exh	1987-88	<b>10-10102S</b>	1.181 Head Dia,Stellite Face	
	Int	1987-88	<b>10-10103</b>	1.417 Head Dia	
	Int	1989-91	<b>10-10169</b>	1.378 Head Dia.	
Valve Seat Insert	Exh	1989-91	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth.	
	Exh	1987-88	<b>21-1375-64</b>	1.000 I.D. 1-3/8 O.D. 0.280 Depth.	
	Int	1989-91	<b>21-1500-77</b>	1.175T I.D. 1-1/2 O.D. 0.236 Depth.	
	Int	1987-88	<b>21-1562-77</b>	1.170 I.D.,1-9/16 O.D.,0.2670 Depth	
Guide	Both	1987-88	<b>30-8016</b>	0.2757 I.D.,0.4758 O.D.,1.895 Length	
	Both	1989-91	<b>30-8324</b>	1.260 OAL	
Keeper	Both	1987-88	<b>34-5009</b>	1 Round Groove	
Valve Stem Seal	Both	1987-88	<b>38-700-45</b>	Viton. Metal Clad.	
	Both	1989-91	<b>38-701-45</b>	Viton. Metal Clad.	
<b>LINE 4</b>	<b>995cc (1.0L) 8V B10S1 Vin K,M</b>			<b>2004-11 L4</b>	<b>BORE - 2.697"/68.5mm</b>
Valve	Exh	2004-11	<b>10-03034</b>	1.252 Head Dia.	
	Int	2004-11	<b>10-03033</b>	1.401 Head Dia.	
Guide	Both	2004-11	<b>30-3256</b>	1.766 OAL.	
Valve Stem Seal	Both	2004-11	<b>38-701-45</b>	Viton. Metal Clad	
<b>LINE 5</b>	<b>1249cc (1.2L) DOHC 16V</b>			<b>2013-15 L4</b>	<b>BORE - 70.5mm/2.776"</b>
No Parts Available			<b>00</b>		
<b>LINE 6</b>	<b>1295cc (1.3L) SOHC 8V G13A Vin 2, 9 (Suzuki)</b>			<b>1992-01 L4</b>	<b>BORE - 2.91"/74mm</b>
Valve	Exh	1992-97	<b>10-10102S</b>	1.181 Head Dia. 0.274 Stem	
	Exh	1998-01	<b>10-10517</b>	0.9860 Head Dia. 0.215 Stem	
	Int	1992-97	<b>10-10103</b>	1.417 Head Dia. 0.274 Stem	
	Int	1998-01	<b>10-10516</b>	1.149 Head Dia. 0.215 Stem	
Valve Seat Insert	Exh	1998-01	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Exh	1992-97	<b>21-1375-64</b>	1.000 I.D. 1-3/8 O.D. 0.280 Depth.	
	Int	1998-01	<b>21-1250-54</b>	1.010T I.D. 1-1/4 O.D. 0.257 Depth	
	Int	1992-97	<b>21-1562-77</b>	1.170 I.D. 1-9/16 O.D. 0.267 Depth	
Guide	Both	1992-97	<b>30-8016</b>	1.895 OAL. +2 O/S Avail.	
	Both	1998-01	<b>30-8324</b>	1.260 OAL	
Spring	Both	1992-94	<b>32-1377</b>	1.986 Free Length	
Keeper	Both	1998-01	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
	Both	1992-97	<b>34-5009</b>	1 Round Groove. w/ 0.273 Stem Dia.	
Lifter	Both	1995-97	<b>36-2254</b>	Metro. Hydraulic	
Valve Stem Seal	Both	1992-97	<b>38-700-45</b>	Viton. Metal Clad.	
	Both	1998-01	<b>38-701-45</b>	Viton. Metal Clad.	
<b>LINE 7</b>	<b>1364cc (1.4L) DOHC 16V Vin 9 LUJ</b>			<b>2010-16 L4</b>	<b>BORE - 72.5mm/2.85"</b>
Valve	Exh	2010-15	<b>10-30115</b>	0.984 Head Dia.	
	Int	2010-15	<b>10-30114</b>	1.102 Head Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 7</b>	<b>1364cc (1.4L) DOHC 16V Vin 9 LUJ</b>			<b>2010-16 L4</b>	<b>BORE - 72.5mm/2.85"</b>
Keeper		2010-15	34-5033	3 Round Beads	
<b>LINE 8</b>	<b>1389cc (1.4L) DOHC 16V (non-USA) X/Z14XE</b>			<b>2002-05 L4</b>	<b>BORE - 77.6mm/3.06"</b>
Valve	Exh	2002-05	10-30119	1.083 Head Dia. 0.234 Stem.	
	Int	2002-05	10-30118	1.220 Head Dia. 0.234 Stem.	
<b>LINE 9</b>	<b>85 C.I. (1.4L) SOHC 8V Vin I</b>			<b>1976-77 L4</b>	<b>BORE - 3.228"/82mm</b>
Valve Seat Insert	Exh	1976-77	20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.	
	Int	1976-77	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.	
Keeper	Both	1976-77	34-217	0.311 Stem Dia. 1 Round Groove. Heat Treated	
Lifter	Both	1976-77	36-2056	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1976-77	38-535-45	Viton. Ring And Band. For 5/16 Stem.	
	Exh	1976-77	38-936-45	Viton. Ring And Band.	
	Int	1976-77	38-935-45	Viton. Ring And Band.	
Expansion Plug Kit		1976-77	97-65	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 10</b>	<b>85 C.I. (1.4L) 8V SOHC (Non-USA) Vin 2 C14NZ</b>			<b>1994-03 L4</b>	<b>BORE - 3.055"/77.6mm</b>
Valve	Exh	1994-03	10-09832	1.141 Head Dia. Single Groove. Chevy, Joy, Swing	
	Int	1994-03	10-09816	1.299 Head Dia. Single Groove. Chevy, Joy, Swing	
Lifter	Both	1994-03	36-2056	Hydraulic Lash Adjuster	
<b>LINE 11</b>	<b>1471cc (1.5L) SOHC 8V 4XC1 (Isuzu) Vin 7, K</b>			<b>1985-89 L4</b>	<b>BORE - 3.03"/77mm</b>
Valve	Exh	1985-89	10-10104	1.220 Head Dia. 0.274 Stem	
	Int	1985-89	10-10105	1.415 Head Dia. 0.274 Stem	
Valve Seat Insert	Exh	1985-89	21-1312-61	1.060T I.D. 1-5/16 O.D. 0.275 Depth	
	Int	1985-89	21-1562-70	1.180T I.D. 1-9/16 O.D. 0.305 Depth	
Guide	Exh	1985-89	30-8015	1.970 OAL. 0.455 O.D. +2 O/S Avail.	
	Int	1985-89	30-8014	1.695 OAL. 0.455 O.D. +2 O/S Avail.	
Keeper	Both	1985-89	34-5001	1 Round Groove	
Valve Stem Seal	Both	1985-89	38-980-45	Viton. Metal Clad.	
Expansion Plug Kit		1985-89	97-0214	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 12</b>	<b>1471cc (1.5L) Turbo 4XC1T (Isuzu) Vin 9 8V SOHC</b>			<b>1986-89 L4</b>	<b>BORE - 3.03"/77mm</b>
Valve	Int	1986-89	10-10105	1.415 Head Dia.	
Valve Seat Insert	Exh	1986-89	21-1312-61	1.060T I.D. 1-5/16 O.D. 0.275 Depth	
	Int	1986-89	21-1562-70	1.180T I.D. 1-9/16 O.D. 0.305 Depth	
Guide	Exh	1986-89	30-8015	1.970 OAL. +2 O/S Avail.	
	Int	1986-89	30-8014	1.695 OAL. +2 O/S Avail.	
Keeper	Both	1986-89	34-5001	1 Round Groove	
Valve Stem Seal	Both	1986-89	38-967-55	Viton. Metal Clad.	
	Both	1986-89	38-980-45	Viton. Metal Clad.	
Expansion Plug Kit		1986-89	97-0214	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 13</b>	<b>1588cc (1.6L) SOHC 8V 4ALC (Toyota) Vin 4</b>			<b>1985-88 L4</b>	<b>BORE - 3.07"/78mm</b>
Valve	Exh	1985-88	10-10106	1.220 Head Dia. 0.2745 Stem	
	Int	1985-88	10-10107	1.417 Head Dia. 0.2746 Stem	
Valve Seat Insert	Exh	1985-88	21-1312-59	1.044 I.D. 1-5/16 O.D. 0.273 Depth.	
	Int	1985-88	21-1500-71	1.240 I.D. 1-1/2 O.D. 0.317 Depth.	
Guide	Exh	1985-88	30-8021	1.930 OAL. +2 O/S Avail.	

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 13</b>	<b>1588cc (1.6L) SOHC 8V 4ALC (Toyota) Vin 4</b>			<b>1985-88 L4</b>	<b>BORE - 3.07"/78mm</b>
Guide	Int	1985-88	<b>30-8020</b>	1.690 OAL. +2 O/S Avail.	
Spring	Both	1985-88	<b>32-1202</b>	1.760 Free Length	
Valve Stem Seal	Both	1985-88	<b>38-967-55</b>	Viton. Metal Clad.	
	Both	1985-88	<b>38-980-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1985-88	<b>97-0195</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 14</b>	<b>1588cc (1.6L) DOHC 16V 4AGE (Toyota) Vin 5</b>			<b>1988-92 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve	Exh	1988-92	<b>10-10177</b>	1.004 Head Dia. 0.235 Stem	
	Int	1988-92	<b>10-10176</b>	1.201 Head Dia. 0.235 Stem	
Valve Seat Insert	Exh	1988-92	<b>21-1125-51</b>	0.854 I.D. 1-1/8 O.D. 0.237 Depth	
	Int	1988-92	<b>21-1250-54</b>	1.010T I.D. 1-1/4 O.D. 0.257 Depth	
Guide	Both	1988-92	<b>30-8038</b>	1.595 OAL. 0.435 O.D. +2 O/S Avail. Incl. Lock Ring	
	Both	1988-92	<b>30-8147</b>	1.520 OAL. 0.436 O.D.	
Spring	Both	1988-92	<b>32-1202</b>	1.764 Free Length	
Keeper	Both	1988-92	<b>34-5011</b>	1 Round Groove	
Lifter	Both	1988-92	<b>36-6003</b>	Mechanical	
Valve Stem Seal	Both	1988-92	<b>38-475-45</b>	Viton. Metal Clad.	
	Both	1988-92	<b>38-520-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1988-92	<b>97-0195</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 15</b>	<b>1588cc (1.6L) SOHC Korean Vin 6 8V</b>			<b>1988-93 L4</b>	<b>BORE - 3.11"/79 mm</b>
Valve	Exh	1988-93	<b>10-10183</b>	1.222 Head Dia.	
	Int	1988-93	<b>10-10182</b>	1.496 Head Dia.	
Valve Seat Insert	Exh	1988-93	<b>21-1312-56</b>	1.086 I.D. 1-5/16 O.D. 0.305 Depth.	
	Int	1988-93	<b>21-1562-67</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
Guide	Both	1988-93	<b>30-8039</b>	1.790 OAL. +2 O/S Avail.	
Lifter	Both	1988-93	<b>36-2056</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1988-93	<b>38-824-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1988-93	<b>97-0195</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 16</b>	<b>1588cc (1.6L) DOHC 16V 4AF, AFE (Toyota) Vin 5, 6</b>			<b>1989-97 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve	Exh	1989-92	<b>10-10315</b>	0.967 Head Dia. 0.235 Stem	
	Exh	1993-97	<b>10-10507</b>	0.965 Head Dia.	
	Int	1989-92	<b>10-10314</b>	1.181 Head Dia. 0.235 Stem	
	Int	1993-97	<b>10-10506</b>	1.221 Head Dia. 0.2354 Stem	
Valve Seat Insert	Exh	1989-97	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Int	1989-97	<b>21-1250-54</b>	1.010T I.D. 1-1/4 O.D. 0.257 Depth	
Guide	Both	1989-97	<b>30-8038</b>	1.595 OAL. 0.435 O.D. +2 O/S Avail. Incl. Lock Ring	
	Both	1989-97	<b>30-8147</b>	1.520 OAL. 0.436 O.D.	
Keeper	Both	1989-97	<b>34-5011</b>	1 Round Groove	
Lifter	Both	1993-97	<b>36-2299</b>	Prizm. Mechanical	
	Both	1989-93	<b>36-6003</b>	Mechanical	
Valve Stem Seal	Both	1989-97	<b>38-475-45</b>	Viton. Metal Clad.	
	Both	1989-97	<b>38-520-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1989-97	<b>97-0195</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 17</b>	<b>1588cc (1.6L) SOHC 12V (4XE1V Isuzu) Vin 6</b>			<b>1990-93 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve Seat Insert	Exh	1990-93	<b>21-1375-51</b>	1.060T I.D. 1-3/8 O.D. 0.280 Depth	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 17</b>	<b>1588cc (1.6L) SOHC 12V (4XE1V Isuzu) Vin 6</b>		<b>1990-93 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve Seat Insert	Int	1990-93	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
Guide	Exh	1990-93	30-8291	1.850 OAL
	Int	1990-93	30-8189	1.650 OAL
Keeper	Both	1990-93	34-5018	1 Round Groove
Valve Stem Seal	Both	1990-93	38-520-45	Viton. Metal Clad.
Expansion Plug Kit		1990-93	97-168	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 18</b>	<b>1588cc (1.6L) SOHC 16V G16KV (Suzuki) Vin 6</b>		<b>1994-02 L4</b>	<b>BORE - 2.953"/75mm</b>
Valve	Exh	1994-00	10-10517	0.9860 Head Dia. 0.215 Stem
	Int	1994-00	10-10516	1.149 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	1994-00	21-1250-54	1.010T I.D. 1.250 O.D. 0.257 Depth
	Int	1994-00	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
Guide	Both	1994-00	30-8324	1.260 OAL
Keeper	Both	1994-00	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	1994-00	38-701-45	Viton. Metal Clad.
<b>LINE 19</b>	<b>1588cc (1.6L) DOHC 16V (4XE1W Isuzu) Vin 5</b>		<b>1990-91 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve Seat Insert	Exh	1990-91	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
	Int	1990-91	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.2400 Depth
	Int	1990-91	21-1312-65	1.060T I.D. 1-5/16 O.D. 0.230 Depth
Guide	Exh	1990-91	30-8255	1.775 OAL. 0.4355 O.D.
	Int	1990-91	30-8189	1.650 OAL. 0.435 O.D.
Keeper	Both	1990-91	34-5018	1 Round Groove
Valve Stem Seal	Both	1990-91	38-520-45	Viton. Metal Clad.
Expansion Plug Kit		1990-91	97-168	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 20</b>	<b>1590cc (1.6L) SOHC 8V G16KC (Suzuki) Vin U</b>		<b>1989-95 L4</b>	<b>BORE - 2.953"/75mm</b>
Valve	Exh	1989-95	10-10173	1.278 Head Dia.
	Exh	1989-95	10-10173S	1.278 Head Dia. Stellite Faced
	Int	1989-95	10-10172	1.441 Head Dia.
Valve Seat Insert	Exh	1989-95	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.
	Int	1989-95	21-1500-79	1.295 I.D. 1-1/2 O.D. 0.262 Depth.
Guide	Both	1989-95	30-8016	1.895 OAL. +2 O/S Avail.
Keeper	Both	1989-95	34-5009	1 Round Groove
Valve Stem Seal	Both	1989-95	38-700-45	Viton. Metal Clad.
<b>LINE 21</b>	<b>1598cc (1.6L) DOHC 16V Vin 6,N</b>		<b>2004-09 L4</b>	<b>BORE - 79mm/3.11"</b>
Valve	Exh	2004-08	10-2248S	1.073 Head Dia. 0.234 Stem
	Int	2004-08	10-2247	1.124 Head Dia. 0.235 Stem
Guide	Both	2004-08	30-3046	1.575 OAL 0.2365 I.D.
Spring	Both	2004-08	32-04055	1.610 Free Length.
Keeper	Both	2004-08	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	2004-08	36-7089	Hydraulic Bucket
Valve Stem Seal	Both	2004-08	38-6100-55	Viton. Top Hat
<b>LINE 22</b>	<b>1598cc (1.6L) DOHC 16V Vin E,G</b>		<b>2009-16 L4</b>	<b>BORE - 79mm/3.11"</b>
Valve	Exh	2009-13	10-3402	1.083 Head Dia. 0.1955 Stem
	Int	2009-13	10-3401	1.226 Head Dia. 0.1955 Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 22</b>	<b>1598cc (1.6L) DOHC 16V Vin E,G</b>			<b>2009-16 L4</b>	<b>BORE - 79mm/3.11"</b>
Guide	Both	2009-13	30-3279	1.463 OAL. 0.198 I.D. 0.395 O.D.	
Valve Stem Seal	Both	2009-13	38-6131-55	Viton. Top Hat	
<b>LINE 23</b>	<b>1.6L (98C.I.) SOHC 8V C16N2/E (Non-USA)</b>			<b>1996-09 L4</b>	<b>BORE - 79.0mm, 80.5mm</b>
Valve	Exh	1996-09	10-09830	1.220 Head Dia. 0.275 Stem	
	Int	1996-09	10-09815	1.496 Head Dia. 0.2758 Stem	
Guide	Both	1996-09	30-3216	2.081 OAL.	
Lifter	Both	1996-09	36-2056	Hydraulic Lash Adjuster	
<b>LINE 24</b>	<b>98 C.I. (1.6L) SOHC Chevette 8V Vin 9, C, E</b>			<b>1976-87 L4</b>	<b>BORE - 3.228"/82mm</b>
Valve Seat Insert	Exh	1976-87	20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.	
	Int	1976-87	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.	
Keeper	Both	1976-87	34-217	0.313 Stem Dia. 1 Round Groove. Heat Treated	
Lifter	Both	1976-87	36-2056	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	1976-87	38-935-45	Viton. Ring And Band.	
	Both	1976-87	38-936-45	Viton. Ring And Band.	
	Exh	1976-87	38-59-45	Viton. 2-Ring. For 5/16 Stem	
	Int	1976-87	38-535-45	Viton. Ring And Band. For 5/16 Stem.	
Expansion Plug Kit		1976-87	97-65	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 25</b>	<b>1788cc (1.8L) DOHC 16V 7AFE (Toyota) Vin 8</b>			<b>1993-97 L4</b>	<b>BORE - 3.19"/81mm</b>
Valve	Exh	1993-97	10-10507	0.965 Head Dia.	
	Int	1993-97	10-10506	1.221 Head Dia. 0.2354 Stem	
Valve Seat Insert	Exh	1993-97	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Int	1993-97	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth	
Guide	Both	1993-97	30-8147	1.520 OAL. 0.436 O.D.	
Keeper		1993-97	34-811	1 Square Groove. Heat Treated	
	Both	1993-97	34-5011	1 Round Groove	
Lifter	Both	1993-97	36-2299	Prizm. Mechanical	
Valve Stem Seal	Both	1993-97	38-475-45	Viton. Metal Clad.	
	Both	1993-97	38-520-45	Viton. Metal Clad.	
Expansion Plug Kit		1993-97	97-44	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 26</b>	<b>1794cc (1.8L) DOHC 16V 1ZZFE (Toyota) Vin 8</b>			<b>1998-10 L4</b>	<b>BORE - 3.11"/80.5mm</b>
Valve	Exh	1998-99	10-10736	1.082 Head Dia. 0.215 Stem	
	Exh	2000-08	10-10781	1.024 Head Dia.	
	Int	1998-99	10-10735	1.260 Head Dia. 0.215 Stem	
	Int	2000-08	10-10780	1.220 Head Dia.	
Guide	Both	1998-08	30-8584	1.360 OAL. 0.4075 O.D.	
Spring	Both	1998-08	32-2451	1.709 Free Length	
Keeper	Both	1998-08	34-5023	1 Round Bead. 0.215 Stem	
Valve Stem Seal	Exh	1998-08	38-310-55	Viton. Metal Clad	
	Int	1998-08	38-210-55	Viton. Metal Clad	
<b>LINE 27</b>	<b>1795cc (1.8L) DOHC 16V 2ZZGE (Toyota) Vin L</b>			<b>2003-06 L4</b>	<b>BORE - 82mm/3.23"</b>
Valve	Exh	2003-06	10-2178S	1.142 Head Dia.	
	Int	2003-06	10-2177	1.339 Head Dia.	
Guide	Both	2003-06	30-3221	1.693 OAL	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 27</b>	<b>1795cc (1.8L) DOHC 16V 2ZZGE (Toyota) Vin L</b>			<b>2003-06 L4</b>	<b>BORE - 82mm/3.23"</b>
Valve Stem Seal	Exh	2003-06	38-310-55	Viton. Metal Clad	
	Int	2003-06	38-210-55	Viton. Metal Clad	
<b>LINE 28</b>	<b>1796cc (1.8L) SOHC 8V C18NZ [Opel] (non-USA)</b>			<b>2003-11 L4</b>	<b>BORE - 80.5mm/3.17"</b>
Valve	Exh	2003-05	10-09830	1.220 Head Dia. 0.275 Stem.	
	Exh	2006-11	10-30121	1.220 Head Dia. 0.234 Stem	
	Int	2003-05	10-09815	1.496 Head Dia. 0.2758 Stem.	
	Int	2006-11	10-30120	1.496 Head Dia. 0.234 Stem	
Guide	Both	2003-05	30-3216	2.081 OAL	
Lifter	Both	2003-05	36-2056	Hydraulic Lash Adjuster	
	Both	2006-11	36-7005	Hydraulic Lash Adjuster	
<b>LINE 29</b>	<b>1796cc (1.8L) DOHC 16V Vin G,H</b>			<b>2010-16 L4</b>	<b>BORE - 80.5mm/3.48"</b>
Valve	Exh	2010-15	10-13343	1.083 Head Dia. 3 Groove	
	Int	2010-15	10-13342	1.232 Head Dia. 3 Groove	
Spring	Both	2011-15	32-5018	1.674 Free Length. Conical	
Keeper	Both	2010-15	34-5033	3 Round Beads	
Valve Stem Seal	Both	2010-15	38-6131-55	Viton. Top Hat	
<b>LINE 30</b>	<b>1798cc (1.8L) DOHC 16V Vin 8 (2ZRF Toyota)</b>			<b>2009-10 L4</b>	<b>BORE - 79mm/3.11"</b>
Guide	Exh	2009-10	30-3135	1.850 OAL. 0.2175 I.D. 0.4072 O.D.	
	Int	2009-10	30-3134	1.630 OAL. 0.2175 I.D. 0.4073 O.D.	
Keeper	Both	2009-10	34-5023	1 Round Bead. 0.215 Stem	
Valve Stem Seal	Both	2009-10	38-210-55	Viton. Metal Clad	
<b>LINE 31</b>	<b>1799cc (1.8L) DOHC 16V X18X, Z18X (Non-USA)</b>			<b>2000-06 L4</b>	<b>BORE - 80.5mm/3.17"</b>
Valve	Exh	2000-06	10-3045	1.082 Head Dia. 3 Groove. Astra	
	Int	2000-06	10-3046	1.227 Head Dia. 3 Groove. Astra	
Guide	Both	2000-06	30-3082	1.562 OAL. 0.183 I.D. 0.395 O.D.	
<b>LINE 32</b>	<b>1809cc (1.8L) DOHC 16V 4XF1 (Isuzu) Vin 8</b>			<b>1992-93 L4</b>	<b>BORE - 3.15"/80mm</b>
Valve Seat Insert	Exh	1992-93	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.	
	Int	1992-93	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth	
	Int	1992-93	21-1312-65	1.060T I.D. 1-5/16 O.D. 0.230 Depth	
Guide	Exh	1992-93	30-8255	1.775 OAL	
	Int	1992-93	30-8189	1.650 OAL	
Valve Stem Seal	Both	1992-93	38-520-45	Viton. Metal Clad.	
<b>LINE 33</b>	<b>1817cc (1.8L) SOHC 8V Isuzu G180Z Vin B, N</b>			<b>1972-82 L4</b>	<b>BORE - 3.307"/84mm</b>
Valve	Exh	1976-79	10-10086	1.339 Head Dia. Luv Ser. 5-9, Opel. Square Groove	
	Exh	1980-82	10-10093	1.337 Head Dia. Series 10-12. Square Groove.	
	Int	1976-79	10-10087	1.673 Head Dia. Series 5-9. Square Groove	
	Int	1980-82	10-10094	1.588 Head Dia. Series 10-12. Square Groove.	
Valve Seat Insert	Exh	1972-75	21-1375-50	1.109T I.D. 1-3/8 O.D. 0.255 Depth. Ser. 1-4	
	Exh	1976-79	21-1437-56	1.110T I.D. 1-7/16 O.D. 0.315 Depth Opel	
	Exh	1976-82	21-1500-50	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.	
	Int	1972-75	21-1750-50	1.500T I.D. 1-3/4 O.D. 0.255 Depth. Ser. 1-4	
	Int	1976-79	21-1750-51	1.410T I.D. 1-3/4 O.D. 0.280 Depth. Ser. 5-9.	
	Int	1980-82	21-1750-52	1.455T I.D. 1-3/4 O.D. 0.307 Depth. Ser. 10-12	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 33</b>	<b>1817cc (1.8L) SOHC 8V Isuzu G180Z Vin B, N</b>		<b>1972-82 L4</b>	<b>BORE - 3.307"/84mm</b>
Valve Seat Insert	Int	1976-79	21-1750-63	1.410T I.D. 1-3/4 O.D. 0.315 Depth. Opel
Guide	Both	1972-75	30-7395	1.990 OAL
	Exh	1976-82	30-7714	2.165 OAL. 0.315 I.D. 0.475 O.D. +2 O/S Avail.
Spring	Int	1976-82	30-7713	1.810 OAL. 0.4745 O.D. 0.3145 I.D. +2 O/S Avail.
	Both	1977-82	32-1130	1.850 Free Length. Outer Ser. 5-11, Opel.
Keeper	Both	1977-82	32-1131	1.780 Free Length. Inner Ser. 5-11, Opel
	Both	1977-78	34-811	Ser. 5,6,8. 1 Square Groove. Heat Treated
	Both	1979-82	34-815	Ser. 5-12. 1 Square Groove. Heat Treated.
Valve Stem Seal	Both	1972-75	34-819	1 Square Groove. Heat Treated
	Both	1972-82	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1976-79	97-0202	Opel. Steel Kit. Brass Kit Avail. In Suffix B
		1972-72	97-29	Luv Series 1. Steel Kit. Brass Kit Avail. In Suffix B
		1973-75	97-66	Luv Series 2-4. Steel Kit. Brass Kit Avail. In Suffix B
		1976-82	97-90	Luv Series 5-12. Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 34</b>	<b>1819cc (1.8L) OHV Diesel 4FB1 (Isuzu) Vin D 8V</b>		<b>1981-86 L4</b>	<b>BORE - 3.31"/84mm</b>
Valve	Exh	1981-86	10-10100S	1.335 Head Dia.
	Int	1981-86	10-10101S	1.535 Head Dia.
Valve Seat Insert	Exh	1981-86	21-1437-64	1.100T I.D. 1-7/16 O.D. 0.227 Depth
	Int	1981-86	21-1625-61	1.305T I.D. 1-5/8 O.D. 0.227 Depth
Guide	Exh	1981-86	30-7714	2.160 OAL. +2 O/S Avail.
	Int	1981-86	30-7713	1.810 OAL. +2 O/S Avail.
Spring	Both	1981-82	32-1130	1.850 Free Length. Outer
	Both	1981-86	32-1131	Outer. 1.790 Free Length
Valve Stem Seal	Both	1981-86	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1981-86	97-0202	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 35</b>	<b>112 C.I. (1.8L) Chev. 8V Vin G OHV</b>		<b>1982-82 L4</b>	<b>BORE - 3.29"/83mm</b>
Valve	Exh	1982-82	10-1465	1.378 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1982-82	10-1466	1.600 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1982-82	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1982-82	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both	1982-82	30-9705	2.000 OAL. Spiral I.D. 30-7705 Plain I.D. Also Avail.
Spring	Both	1982-82	32-1038-D	1.910 Free Length. w/ Damper
Keeper	Both	1982-82	34-217	0.311 Stem Dia. 1 Round Groove. Heat Treated
Lifter	Both	1982-82	36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Valve Stem Seal	Exh	1982-82	38-59-45	Viton. 2-Ring. For 5/16 Stem
	Exh	1982-82	38-936-45	Viton. Ring And Band.
	Int	1982-82	38-535-45	Viton. Ring And Band. For 5/16 Stem.
	Int	1982-82	38-935-45	Viton. Ring And Band.
Rocker Component	Both	1982-82	40-2864	Rocker Arm. Stamped
Rocker Kit	Both	1982-82	41-2407	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1982-82	42-2948	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Push Rod		1982-82	74-6346	7.204 Length.
Expansion Plug Kit		1982-82	97-96	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 36</b>	<b>112 C.I. (1.8L) SOHC Pontiac (Brazil) 8V Vin 0, J</b>			<b>1982-86 L4 BORE - 3.34"/84.8mm</b>
Valve	Exh	1982-86	10-1485S	1.378 Head Dia.
	Int	1982-86	10-1486	1.614 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1982-86	21-1437-62	1.200 I.D. 1-7/16 O.D. 0.297 Depth.
	Exh	1982-86	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth
	Int	1982-86	21-1687-54	1.450 I.D. 1-11/16 O.D. 0.297 Depth.
	Int	1982-86	21-1750-68	1.415 I.D. 1-3/4 O.D. 0.316 Depth. O/S O.D.
Keeper	Both	1982-86	34-217	0.311 Stem Dia. 1 Round Groove. Heat Treated
Lifter	Both	1982-86	36-2056	Hydraulic Lash Adjuster
Expansion Plug Kit		1982-86	97-96	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 37</b>	<b>116 C.I. (1.9L) SOHC Saturn 8V Vin 8, 9</b>			<b>1991-02 L4 BORE - 3.23"/82mm</b>
Valve	Exh	1991-02	10-10523	1.339 Head Dia. 0.2730 Stem
	Int	1991-02	10-10522	1.574 Head Dia. 0.2737 Stem
Valve Seat Insert	Exh	1991-02	21-1437-69	1.140T I.D. 1-7/16 O.D. 0.237 Depth. Note: Seat May Need To Be Machined 0.015-0.020" to Achieve Correct Depth
	Int	1991-02	21-1687-58	1.397T I.D. 1-11/16 O.D. 0.257 Depth.
Guide	Both	1991-02	30-8292	2.125 OAL. 0.2755 I.D. Replaces 2.520 Length Guide To Prevent Carbon Buildup. 97-98: Int. Only.
	Exh	1997-98	30-8021	1.930 OAL. 0.2757 I.D.
Spring	Both	1991-02	32-2460	OEM # 21006842
Keeper	Both	1991-02	34-00992	1 Round Groove
Lifter	Both	1991-02	36-2296	Hydraulic Roller
Valve Stem Seal	Both	1991-02	38-585-45	Viton. Top Hat.
<b>LINE 38</b>	<b>116 C.I. (1.9L) DOHC 16V Saturn Vin 7</b>			<b>1991-02 L4 BORE - 3.23"/82mm</b>
Valve	Exh	1991-98	10-10521	1.081 Head Dia. 0.2732 Stem Dia.
	Exh	1999-02	10-1950	1.081 Head Dia. 0.2344 Stem Dia.
	Int	1991-98	10-10520	1.272 Head Dia. 0.2738 Stem Dia.
	Int	1999-02	10-1949	1.272 Head Dia. 0.2349 Stem Dia.
Valve Seat Insert	Exh	1991-02	21-1125-53	0.890T I.D. 1-1/8 O.D. 0.237 Depth
	Int	1991-02	21-1375-60	1.107T I.D. 1-3/8 O.D. 0.237 Depth
Guide	Both	1999-02	30-3020	1.510 OAL. 0.2366 I.D.
	Both	1991-98	30-8293	1.510 OAL. 0.2755 I.D.
Spring	Both	1995-98	32-2461	1.670 Free Length. OEM # 21006898
	Both	1991-94	32-2462	1.623 Free Length. OEM # 21007184
	Both	1999-02	32-2463	OEM # 21008103
Keeper	Both	1991-98	34-00992	1 Round Groove
	Both	1999-02	34-07209	1 Round Groove
Lifter	Both	1991-98	36-2273	Hydraulic Bucket
	Both	1999-02	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1991-98	38-585-45	Viton. Top Hat. Use w/ 0.273 Stem Dia.
	Both	1999-02	38-586-45	Viton. Top Hat.
<b>LINE 39</b>	<b>1949cc (1.9L) SOHC 8V G200Z (Isuzu) Vin A</b>			<b>1982-85 L4 BORE - 3.425"/87mm</b>
Valve	Exh	1982-85	10-10093	1.337 Head Dia.
	Int	1982-85	10-10094	1.337 Head Dia.
Valve Seat Insert	Exh	1982-85	21-1500-50	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Int	1982-85	21-1750-62	1.323T I.D. 1-3/4 O.D. 0.276 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 39</b>	<b>1949cc (1.9L) SOHC 8V G200Z (Isuzu) Vin A</b>			<b>1982-85 L4 BORE - 3.425"/87mm</b>
Guide	Exh	1982-85	<b>30-7714</b>	2.160 OAL. +2 O/S Avail.
	Int	1982-85	<b>30-7713</b>	1.810 OAL. +2 O/S Avail.
Spring	Both	1982-85	<b>32-1130</b>	1.850 Free Length. Outer
	Both	1982-85	<b>32-1131</b>	1.780 Free Length. Inner
	Both	1984-85	<b>32-1310</b>	1.900 Free Length
Keeper	Both	1982-85	<b>34-819</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1982-85	<b>38-962-45</b>	Viton. Ring And Spring.
Expansion Plug Kit		1982-85	<b>97-0202</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 40</b>	<b>122 C.I. (2.0L) Chev. 8V Vin B, P, Y</b>			<b>1983-86 L4 BORE - 3.39"/86mm</b>
Valve	Exh	1983-86	<b>10-1465</b>	1.378 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1983-86	<b>10-1466</b>	1.600 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1983-86	<b>20-1437-2</b>	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1983-86	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Exh	1983-86	<b>21-1437-58</b>	1.095T I.D. 1-7/16 O.D. 0.237 Depth
	Int	1983-86	<b>21-1625-55</b>	1.333T I.D. 1-5/8 O.D. 0.237 Depth
Guide	Both	1983-86	<b>30-7705</b>	2.000 OAL
	Both	1983-86	<b>30-9705</b>	2.000 OAL. Spiral I.D. 30-7705 Plain I.D. Also Avail.
	Exh	1983-86	<b>30-8115</b>	2.320 OAL. Aluminum Heads
	Int	1983-86	<b>30-8114</b>	2.770 OAL. Aluminum Heads
Spring	Both	1983-86	<b>32-1038-D</b>	1.910 Free Length. w/ Damper
Keeper	Both	1983-86	<b>34-217</b>	0.311 Stem Dia. 1 Round Groove. Heat Treated
Lifter	Both	1983-86	<b>36-969</b>	Hydraulic
Valve Stem Seal	Exh	1983-86	<b>38-59-45</b>	Viton. 2-Ring. For 5/16 Stem
	Exh	1983-86	<b>38-936-45</b>	Viton. Ring And Band.
	Int	1983-86	<b>38-535-45</b>	Viton. Ring And Band. For 5/16 Stem.
	Int	1983-86	<b>38-935-45</b>	Viton. Ring And Band.
Rocker Component	Both	1983-84	<b>40-2864</b>	Rocker Arm. Stamped
Rocker Kit	Both	1983-86	<b>41-2407</b>	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1983-86	<b>42-2948</b>	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Push Rod		1983-86	<b>74-6346</b>	7.204 Length.
Expansion Plug Kit		1985-86	<b>97-95</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1983-84	<b>97-96</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 41</b>	<b>122 C.I. (2.0L) Chev. 8V Vin 1 OHV</b>			<b>1987-89 L4 BORE - 3.39"/86mm</b>
Valve	Exh	1987-89	<b>10-1568</b>	1.457 Head Dia. +15 O/S Stem Avail.
	Int	1987-89	<b>10-1569</b>	1.693 Head Dia. +15 O/S Stem Avail.
Valve Seat Insert	Exh	1987-89	<b>21-1562-66</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.
	Int	1987-89	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
Guide	Both	1987-89	<b>30-7705</b>	2.000 OAL
	Both	1987-89	<b>30-9705</b>	2.000 OAL. Spiral I.D. 30-7705 Plain I.D. Also Avail.
	Exh	1987-89	<b>30-8115</b>	2.320 OAL. Aluminum Heads
	Int	1987-89	<b>30-8114</b>	2.770 OAL. Aluminum Heads
Spring	Both	1987-89	<b>32-1304</b>	2.059 Free Length
Keeper	Both	1987-89	<b>34-217</b>	0.311 Stem Dia. 1 Round Groove. Heat Treated
Lifter	Both	1987-89	<b>36-969</b>	Hydraulic
Valve Stem Seal	Exh	1987-89	<b>38-59-45</b>	Viton. 2-Ring. For 5/16 Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 41</b>	<b>122 C.I. (2.0L) Chev. 8V Vin 1 OHV</b>			<b>1987-89 L4 BORE - 3.39"/86mm</b>
Valve Stem Seal	Exh	1987-89	<b>38-936-45</b>	Viton. Ring And Band.
	Int	1987-89	<b>38-535-45</b>	Viton. Ring And Band. For 5/16 Stem.
	Int	1987-89	<b>38-935-45</b>	Viton. Ring And Band.
Push Rod		1987-89	<b>74-6445</b>	7.700 Length
Expansion Plug Kit		1987-89	<b>97-95</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 42</b>	<b>1995cc (2.0L) DOHC 16V J20 Vin C (Suzuki)</b>			<b>1999-08 L4 BORE - 84mm/3.31"</b>
Valve	Exh	1999-08	<b>10-10787S</b>	1.102 Head Dia. 0.234 Stem. 3.382 OAL
	Int	1999-08	<b>10-10786</b>	1.299 Head Dia. 0.235 Stem. 3.396 OAL
Guide	Both	1999-08	<b>30-8566</b>	1.380 OAL
Keeper	Both	1999-08	<b>34-5022</b>	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	1999-08	<b>36-2272</b>	Hydraulic Bucket
Valve Stem Seal	Both	1999-08	<b>38-998-45</b>	Viton. Metal Clad.
<b>LINE 43</b>	<b>1998cc (2.0L) SOHC 8V Opel C20NE (Non-USA)</b>			<b>2004-06 L4 BORE - 3.39"/86mm</b>
Valve	Exh	2004-06	<b>10-10116</b>	1.437 Head Dia. 4.102 OAL. 0.276 Stem.
	Int	2004-06	<b>10-10213</b>	1.646 Head Dia. 4.100 OAL. 0.276 Stem
Lifter	Both	2004-06	<b>36-2056</b>	Hydraulic Lash Adjuster
<b>LINE 44</b>	<b>122 C.I. (2.0L) DOHC 16V VIN X LTG</b>			<b>2013-16 L4 BORE - 86mm/3.39"</b>
Spring	Both	2013-15	<b>32-5001</b>	1.729 Free Length. Conical
Keeper	Both	2013-15	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2013-15	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2013-15	<b>38-6036-55</b>	Viton. Top Hat.
<b>LINE 45</b>	<b>122 C.I. (2.0L) DOHC 16V Vin P,V Ecotec</b>			<b>2004-13 L4 BORE - 3.39"/86mm</b>
Valve	Exh	2004-14	<b>10-2010S</b>	1.185 Head Dia.
	Int	2007-14	<b>10-13293</b>	1.382 Head Dia. Nitrided. Can Use 10-1997 Chrome Stem
	Int	2004-10	<b>10-1997</b>	1.382 Head Dia.
Valve Seat Insert	Exh	2004-14	<b>21-1250-50</b>	0.965T I.D. 1-1/4 O.D. 1/4 Depth. NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Int	2004-14	<b>21-1437-69</b>	1.140T I.D. 1-7/16 O.D. 0.237 Depth. Note: Seat May Need To Be Machined 0.015-0.020" to Achieve Correct Depth
Guide	Both	2004-14	<b>30-3029</b>	1.420 OAL.
Spring	Both	2004-14	<b>32-04060</b>	1.678 Free Length.
Keeper	Both	2004-14	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Lifter	Both	2004-14	<b>36-7082</b>	Hydraulic Lash Adjuster.
Valve Stem Seal	Both	2004-14	<b>38-3500-45</b>	Viton. Top Hat
<b>LINE 46</b>	<b>122 C.I. (2.0L) SOHC Vin H K M Pontiac Turbo 8V</b>			<b>1987-94 L4 BORE - 3.39"/86mm</b>
Valve	Exh	1987-94	<b>10-10116</b>	1.437 Head Dia. 4.102 OAL. 0.276 Stem.
	Int	1987-91	<b>10-10117</b>	1.693 Head Dia. 4.102 OAL 0.276 Stem
	Int	1992-94	<b>10-10213</b>	1.646 Head Dia. 4.100 OAL. 0.276 Stem
Valve Seat Insert	Exh	1987-94	<b>21-1500-62</b>	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Int	1992-94	<b>21-1812-52</b>	1.440T I.D. 1-13/16 O.D. 0.315 Depth.
	Int	1987-91	<b>21-1812-54</b>	1.405T I.D. 1-13/16 O.D. 0.315 Depth.
Guide	Both	1987-94	<b>30-8039</b>	1.790 OAL. +2 O/S Avail.
Spring	Both	1987-94	<b>32-1386</b>	1.820 Free Length
Lifter	Both	1987-94	<b>36-2056</b>	Hydraulic Lash Adjuster

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 46</b>	<b>122 C.I. (2.0L) SOHC Vin H K M Pontiac Turbo 8V</b>			<b>1987-94 L4</b>	<b>BORE - 3.39"/86mm</b>
Valve Stem Seal	Both	1987-94	<b>38-824-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1987-94	<b>97-95</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 47</b>	<b>122 C.I. (2.0L) DOHC 16V E-TEC II Vin Z</b>			<b>2004-11 L4</b>	<b>BORE - 86.4mm/3.40"</b>
Valve	Exh	2004-11	<b>10-2040S</b>	1.142 Head Dia. Bi-Metallic, Stellite	
	Int	2004-11	<b>10-10784</b>	1.260 Head Dia.	
Guide	Exh	2004-11	<b>30-3011</b>	1.378 OAL. Manganese Bronze 31-3011 Also Avail.	
	Int	2004-11	<b>30-3010</b>	1.773 OAL. Manganese Bronze 31-3010 Also Avail.	
Spring	Both	2004-11	<b>32-2488</b>	1.673 Free Length	
Keeper	Both	2004-11	<b>34-5021</b>	3 Round Beads. 0.234 Stem	
Lifter	Both	2004-11	<b>36-7021</b>	Hydraulic	
Valve Stem Seal	Both	2004-11	<b>38-1329-45</b>	Viton. Metal Clad.	
<b>LINE 48</b>	<b>134 C.I. (2.2L) DOHC 16V Vin 2,6,B,D,F,H Ecotec</b>			<b>2000-11 L4</b>	<b>BORE - 3.39"/86mm</b>
Valve	Exh	2000-11	<b>10-2010S</b>	1.185 Head Dia. (Non-USA Astra, Zafira)	
	Int	2000-11	<b>10-1997</b>	1.382 Head Dia. (Non-USA Astra, Zafira)	
Valve Seat Insert	Exh	2000-11	<b>21-1250-50</b>	0.965T I.D. 1-1/4 O.D. 1/4 Depth. NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth	
	Int	2000-11	<b>21-1437-69</b>	1.140T I.D. 1-7/16 O.D. 0.237 Depth. Note: Seat May Need To Be Machined 0.015-0.020" to Achieve Correct Depth	
Guide	Both	2000-11	<b>30-3029</b>	1.420 OAL.	
Spring	Both	2000-11	<b>32-04060</b>	1.678 Free Length	
Keeper	Both	2000-11	<b>34-5021</b>	3 Round Beads. 0.234 Stem	
Lifter	Both	2000-11	<b>36-7082</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2000-11	<b>38-3500-45</b>	Viton. Top Hat	
<b>LINE 49</b>	<b>134 C.I. (2.2L) Chev. OHV 8V Vin G,4</b>			<b>1990-02 L4</b>	<b>BORE - 3.50"/89mm</b>
Valve	Exh	1990-91	<b>10-1568</b>	1.457 Head Dia. 0.3132 Stem Dia. 0.279 Tip To Groove. +15 O/S Stem Avail.	
	Exh	1992-93	<b>10-1704</b>	1.457 Head Dia. 0.3132 Stem Dia. 0.210 Tip To Groove	
	Exh	1994-97	<b>10-1737</b>	1.457 Head Dia. 0.2738 Stem Dia., 0.222 Tip To Groove. +3 & +15 O/S Stem May Be Avail.	
	Exh	1998-02	<b>10-1903</b>	1.457 Head Dia. 0.2738 Stem Dia. +3, 15 O/S May Be Avail.	
	Int	1990-91	<b>10-1569</b>	1.457 Head Dia. 0.3132 Stem Dia. 0.279 Tip To Groove. +15 O/S Stem Avail.	
	Int	1992-93	<b>10-1705</b>	1.732 Head Dia. 0.3136 Stem Dia. 0.189 Tip To Groove	
	Int	1994-97	<b>10-1736</b>	1.732 Head Dia. 0.2742 Stem Dia. 0.204 Tip To Groove. +3 & +15 O/S Stem May Be Avail.	
	Int	1998-02	<b>10-1902</b>	1.732 Head Dia. 0.2746 Stem Dia.	
Valve Seat Insert	Exh	1990-02	<b>21-1562-66</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
	Int	1990-02	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.	
Guide	Both	1998-02	<b>30-3009</b>	2.289 OAL. 0.2763 I.D. +2 O/S Avail.	
	Exh	1990-93	<b>30-8115</b>	2.320 OAL. 0.3155 I.D.	
	Exh	1994-99	<b>30-8535</b>	2.320 OAL. 0.2757 I.D.	
	Exh	1994-97	<b>30-8588</b>	2.320 OAL. 0.2807 I.D.	
	Int	1990-93	<b>30-8114</b>	2.770 OAL. 0.3155 I.D.	
	Int	1994-99	<b>30-8536</b>	2.770 OAL. 0.2757 I.D.	
	Int	1994-97	<b>30-8589</b>	2.320 OAL. 0.2807 I.D.	
	Spring	Both	1998-02	<b>32-04018</b>	1.910 Length,Conical

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 49</b>	<b>134 C.I. (2.2L) Chev. OHV 8V Vin G,4</b>			<b>1990-02 L4</b>	<b>BORE - 3.50"/89mm</b>
Spring	Both	1990-93	<b>32-1304</b>	2.059 Free Length	
	Both	1994-97	<b>32-2212</b>	1.958 Free Length. Conical	
Keeper	Both	1994-02	<b>34-00992</b>	1 Round Groove. 0.275 Stem	
	Both	1990-93	<b>34-217</b>	0.314 Stem Dia. 1 Round Groove. Heat Treated	
Lifter	Both	1994-02	<b>36-2270</b>	Hydraulic Roller	
	Both	1990-93	<b>36-969</b>	Hydraulic	
Valve Stem Seal	Both	1992-98	<b>38-322-45</b>	Viton. Ring And Band. Use w/ 0.274 Stem	
	Both	1998-02	<b>38-588-45</b>	Viton. Top Hat.	
	Exh	1990-93	<b>38-59-45</b>	Viton. 2-Ring. For 5/16 Stem	
	Int	1990-93	<b>38-535-45</b>	Viton. Ring And Band. For 5/16 Stem.	
Retainer	Both	1990-02	<b>55-6197</b>	Chrome Moly. 0.980 O.D. 7mm Stem	
Push Rod		1990-03	<b>74-6445</b>	7.700 Length. w/ 0.313 Stems	
Expansion Plug Kit		1990-95	<b>97-0240</b>	Steel Kit. Brass Kit Avail. In Suffix B	
		1996-97	<b>97-152</b>	Steel Kit. Brass Kit Avail. In Suffix B	
		1998-02	<b>97-153</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 50</b>	<b>2198cc (2.2L) SOHC 8V C22NE</b>			<b>1999-05 L4</b>	
Valve	Exh	1999-05	<b>10-10116</b>	1.437 Head Dia. 4.102 OAL. 0.276 Stem.	
	Int	1999-05	<b>10-10213</b>	1.646 Head Dia. 4.100 OAL. 0.276 Stem	
Lifter	Both	1999-05	<b>36-2056</b>	Hydraulic Lash Adjuster	
<b>LINE 51</b>	<b>134 C.I. (2.2L) 8V OHV Vin 4, 5, H Flex-Fuel</b>			<b>1994-03 L4</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1994-97	<b>10-1737</b>	1.457 Head Dia. 0.274 Stem Dia. 0.222 Tip To Groove. +3 & +15 O/S Stem May Be Avail.	
	Exh	1998-03	<b>10-1903</b>	1.457 Head Dia. 0.2738 Stem Dia. +3, 15 O/S May Be Avail.	
	Int	1994-97	<b>10-1736</b>	1.732 Head Dia. 0.274 Stem Dia. 0.204 Tip To Groove. +3 & +15 O/S Stem May Be Avail.	
	Int	1998-03	<b>10-1902</b>	1.732 Head Dia.	
Valve Seat Insert	Exh	1994-03	<b>21-1562-66</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
	Int	1994-03	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.	
Guide	Both	1998-03	<b>30-3009</b>	2.289 OAL. 0.2763 I.D. +2 O/S Avail.	
	Exh	1994-97	<b>30-8535</b>	2.320 OAL. 0.2757 I.D.	
	Int	1994-97	<b>30-8536</b>	2.770 OAL. 0.2757 I.D.	
Spring	Both	1998-03	<b>32-04018</b>	1.910 Free Length. Conical	
	Both	1994-97	<b>32-2212</b>	1.958 Free Length. Conical	
Keeper	Both	1994-03	<b>34-00992</b>	1 Round Groove	
Lifter	Both	1994-03	<b>36-2270</b>	Hydraulic Roller	
Valve Stem Seal	Both	1994-97	<b>38-322-45</b>	Viton. Ring And Band. Use w/ 0.274 Stem	
	Both	1998-03	<b>38-588-45</b>	Viton. Top Hat.	
Expansion Plug Kit		1994-95	<b>97-0240</b>	Steel Kit. Brass Kit Avail. In Suffix B	
		1996-97	<b>97-152</b>	Steel Kit. Brass Kit Avail. In Suffix B	
		1998-99	<b>97-153</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 52</b>	<b>2238cc (2.2L) OHV Diesel 8V (Isuzu) Vin S</b>			<b>1981-84 L4</b>	<b>BORE - 3.307"/84mm</b>
Valve	Exh	1981-84	<b>10-10217</b>	1.339 Head Dia.	
	Int	1081-84	<b>10-10216</b>	1.575 Head Dia.	
Valve Seat Insert	Exh	1981-84	<b>21-1437-58</b>	1.095T I.D. 1-7/16 O.D. 0.237 Depth	
	Int	1981-84	<b>21-1625-55</b>	1.333T I.D. 1-5/8 O.D. 0.237 Depth	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 52</b>	<b>2238cc (2.2L) OHV Diesel 8V (Isuzu) Vin S</b>			<b>1981-84 L4</b>	<b>BORE - 3.307"/84mm</b>
Guide	Both	1981-84	<b>30-7656</b>	1.970 OAL. 0.3145 I.D. 0.5528 O.D.	
Valve Stem Seal	Both	1981-84	<b>38-223-55</b>	Viton. Metal Clad.	
<b>LINE 53</b>	<b>2254cc (2.3L) SOHC 8V 4ZD1 (Isuzu)</b>			<b>1996-98 L4</b>	<b>BORE - 89.4mm/3.50"</b>
Valve	Exh	1996-98	<b>10-10220S</b>	1.413 Head Dia.	
	Int	1996-98	<b>10-10218</b>	1.663 Head Dia.	
Valve Seat Insert	Exh	1996-98	<b>21-1562-66</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
	Int	1996-98	<b>21-1750-51</b>	1.410T I.D. 1-3/4 O.D. 0.280 Depth.	
Guide	Exh	1996-98	<b>30-7714</b>	2.160 OAL. +2 O/S Avail.	
	Int	1996-98	<b>30-7713</b>	1.810 OAL. 0.4745 O.D. 0.3145 I.D. +2 O/S Avail.	
Spring	Both	1996-98	<b>32-1310</b>	1.900 Free Length. OEM # 8-94259-483-0	
<b>LINE 54</b>	<b>140, 145, 164 C.I. Corvair</b>			<b>1960-69 L6</b>	<b>BORE - 3.4375"/87.3mm</b>
Guide	Both	1960-69	<b>30-1918+2</b>	2.220 OAL.	
Spring	Both	1960-69	<b>32-685-D</b>	2.050 Free Length. w/ Damper	
Keeper	Both	1960-69	<b>34-555</b>	1 Groove. Heat Treated. OEM # VT3234	
Lifter	Both	1960-69	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
<b>LINE 55</b>	<b>138 C.I. (2.3L) DOHC 16V Olds Quad 4 Vin D</b>			<b>1987-95 L4</b>	<b>BORE - 3.62"/92mm</b>
Valve	Exh	1987-89	<b>10-1674</b>	1.182 Head Dia.	
	Exh	1990-95	<b>10-1727</b>	1.238 Head Dia.	
	Int	1987-89	<b>10-1673</b>	1.398 Head Dia.	
	Int	1990-95	<b>10-1726</b>	1.437 Head Dia.	
Valve Seat Insert	Exh	1987-89	<b>21-1250-56</b>	0.905T I.D. 1-1/4 O.D. 0.230 Depth. w/ 1.182 Valve Head Dia.	
	Exh	1990-95	<b>21-1312-67</b>	1.042 I.D. 1-5/16 O.D. 0.238 Depth. w/ 1.238 Valve Head Dia. Also Avail, In Nickel Matl. (-N)	
	Int	1987-89	<b>21-1500-74</b>	1.180T I.D. 1-1/2 O.D. 0.214 Depth. w/ 1.398 Valve Head Dia.	
	Int	1990-95	<b>21-1500-77</b>	1.175T I.D. 1-1/2 O.D. 0.236 Depth. w/ 1.437 Valve Head Dia.	
Guide	Both	1987-95	<b>30-8124</b>	1.740 OAL	
Spring	Both	1990-95	<b>32-1380</b>	1.780 Free Length	
	Both	1987-93	<b>32-1558</b>	1.700 Free Length	
Keeper	Both	1987-95	<b>34-510</b>	1 Round Groove. OEM # 22531220	
Lifter	Both	1987-94	<b>36-2236</b>	Hydraulic Bucket	
	Both	1995-95	<b>36-2273</b>	Hydraulic Bucket	
Valve Stem Seal	Both	1987-95	<b>38-827-25</b>	Polyacrylic. Metal Clad.	
	Both	1987-95	<b>38-827-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1987-95	<b>97-0242</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 56</b>	<b>138 C.I. (2.3L) DOHC 16V Olds Quad 4 Vin A</b>			<b>1989-94 L4</b>	<b>BORE - 3.62"/92mm</b>
Valve	Exh	1989-94	<b>10-1727</b>	1.238 Head Dia.	
	Int	1989-94	<b>10-1726</b>	1.437 Head Dia.	
Valve Seat Insert	Exh	1989-94	<b>21-1312-67</b>	1.042 I.D. 1-5/16 O.D. 0.238 Depth. Also Avail, In Nickel Matl. (-N)	
	Int	1989-94	<b>21-1500-77</b>	1.175T I.D. 1-1/2 O.D. 0.236 Depth.	
Guide	Both	1989-94	<b>30-8124</b>	1.740 OAL	
Spring	Both	1989-94	<b>32-1380</b>	1.780 Free Length.	
	Both	1990-93	<b>32-1558</b>	1.700 Free Length	
Keeper	Both	1989-94	<b>34-510</b>	1 Round Groove. OEM # 22531220	
Lifter	Both	1989-94	<b>36-2236</b>	Hydraulic Bucket	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 56</b>	<b>138 C.I. (2.3L) DOHC 16V Olds Quad 4 Vin A</b>		<b>1989-94 L4</b>	<b>BORE - 3.62"/92mm</b>
Valve Stem Seal	Both	1989-94	<b>38-827-25</b>	Polyacrylic. Metal Clad.
	Both	1989-94	<b>38-827-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1989-94	<b>97-0242</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 57</b>	<b>138 C.I (2.3L) SOHC 8V Vin 3</b>		<b>1992-94 L4</b>	<b>BORE - 3.622"/92mm</b>
Valve	Exh	1992-94	<b>10-1727</b>	1.238 Head Dia.
	Int	1992-94	<b>10-1726</b>	1.437 Head Dia.
Valve Seat Insert	Exh	1992-94	<b>21-1312-67</b>	1.042 I.D. 1-5/16 O.D. 0.238 Depth. Also Avail, In Nickel Matl. (-N)
	Int	1992-94	<b>21-1500-77</b>	1.175T I.D. 1-1/2 O.D. 0.236 Depth.
Guide	Both	1992-94	<b>30-8124</b>	1.740 OAL
Spring	Both	1992-94	<b>32-1558</b>	2V Per Cyl. 1.700 Free Length
Keeper	Both	1992-94	<b>34-510</b>	1 Round Groove. OEM # 22531220
Lifter	Both	1992-94	<b>36-2236</b>	Hydraulic Bucket
Valve Stem Seal	Both	1992-94	<b>38-827-25</b>	Polyacrylic. Metal Clad.
	Both	1992-94	<b>38-827-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1992-94	<b>97-0242</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 58</b>	<b>140 C. I. (2.3L) SOHC 8V Vin A,B</b>		<b>1971-77 L4</b>	<b>BORE - 3.44"/87.4mm</b>
Valve Seat Insert	Exh	1971-77	<b>20-1437-1</b>	1-1/4 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1971-77	<b>20-1750-1</b>	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
Guide	Both	1971-77	<b>30-9191</b>	1.656 OAL
Spring	Both	1971-77	<b>32-880-D</b>	2.030 Free Length. w/ Damper
Keeper	Both	1971-77	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1971-77	<b>36-992</b>	Mechanical High Performance
Valve Stem Seal	Both	1971-77	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1971-77	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1971-77	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1971-75	<b>38-925-25</b>	Polyacrylic. Ring And Band.
	Both	1976-77	<b>38-937-15</b>	Nitrile. Ring And Band.
	Both	1976-77	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Both	1971-77	<b>38-951-25</b>	Polyacrylic. 2-Ring.	
<b>LINE 59</b>	<b>2362cc (2.4L) DOHC 16V (Toyota) 2AZFE</b>		<b>2009-10 L4</b>	<b>BORE - 89mm/3.504</b>
Valve	Exh	2009-10	<b>10-10799</b>	1.161 Head Dia. Vibe
	Int	2009-10	<b>10-10798</b>	1.339 Head Dia. Vibe
Guide	Both	2009-10	<b>30-8585</b>	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.
Keeper	Both	2009-10	<b>34-5023</b>	1 Round Bead. 0.215 Stem
Valve Stem Seal	Exh	2009-10	<b>38-310-55</b>	Viton. Metal Clad
	Int	2009-10	<b>38-210-55</b>	Viton. Metal Clad
<b>LINE 60</b>	<b>145 C.I. (2.4L) DOHC 16V Vin 5,B,P,R Ecotec</b>		<b>2006-16 L4</b>	<b>BORE - 88mm/3.46"</b>
Valve	Exh	2006-15	<b>10-2010S</b>	1.185 Head Dia. 0.234 Stem
	Int	2010-15	<b>10-13293</b>	1.382 Head Dia. Nitrided. Can Use 10-1997 Chrome Stem
	Int	2006-12	<b>10-1997</b>	1.382 Head Dia. Chrome Stem
Valve Seat Insert	Exh	2006-15	<b>21-1250-50</b>	0.965T I.D. 1-1/4 O.D. 1/4 Depth. NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
	Int	2006-15	<b>21-1437-69</b>	1.140T I.D. 1-7/16 O.D. 0.237 Depth. Note: Seat May Need To Be Machined 0.015-0.020" to Achieve Correct Depth



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 60</b>	<b>145 C.I. (2.4L) DOHC 16V Vin 5,B,P,R Ecotec</b>		<b>2006-16 L4</b>	<b>BORE - 88mm/3.46"</b>
Guide	Both	2006-15	30-3029	1.420 OAL.
Spring	Both	2006-15	32-04060	1.678 Free Length
Keeper	Both	2006-15	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2006-15	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2006-15	38-3500-45	Viton. Top Hat
<b>LINE 61</b>	<b>145 C.I. (2.4L) DOHC 16V Quad Vin T</b>		<b>1996-02 L4</b>	<b>BORE - 3.54"/89mm</b>
Valve	Exh	1996-02	10-1937	1.141 Head Dia.
	Int	1996-02	10-1941	1.396 Head Dia.
Valve Seat Insert	Exh	1996-02	21-1250-50	0.965T I.D. 1-1/4 O.D. 1/4 Depth. NOTE: Seat May Need To Be Machined .015"-.020" To Achieve Correct Depth
Guide	Exh	1996-02	30-8671	1.653 OAL
	Int	1996-02	30-8670	1.653 OAL
Spring	Both	1996-02	32-04002	1.800 Free Length
Keeper	Both	1996-02	34-07209	1 Round Groove
Lifter	Both	1996-02	36-2273	Hydraulic Bucket
Valve Stem Seal	Both	1996-02	38-247-45	Viton. Metal Clad.
<b>LINE 62</b>	<b>2457cc (2.5L) DOHC 16V Vin A Ecotec</b>		<b>2013-16 L4</b>	<b>BORE - 88mm/ 3.465"</b>
Spring	Both	2013-15	32-5001	1.729 Free Length. Conical
Keeper	Both	2013-15	34-5032	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2013-15	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2013-15	38-6036-55	Viton. Top Hat
<b>LINE 63</b>	<b>2494cc (2.5L) DOHC 24V H25A (Suzuki) Vin 4</b>		<b>1999-04 V6</b>	<b>BORE 84mm/3.31"</b>
Valve	Exh	1999-04	10-10787S	1.102 Head Dia. 0.234 Stem. 3.382 OAL
	Int	1999-04	10-10786	1.299 Head Dia. 0.235 Stem. 3.396 OAL
Guide	Both	1999-04	30-8566	1.380 OAL
Keeper	Both	1999-04	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	1999-04	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	1999-04	38-998-45	Viton. Metal Clad.
<b>LINE 64</b>	<b>151 C.I. (2.5L) OHV 8V Pontiac Vin 1,2,5,9,AEF,R,U,V</b>		<b>1977-93 L4</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1979-86	10-1437	1.500 Head Dia. 0.341 Stem Dia. 2 Square Grooves. +3, +15 O/S Stem Avail.
	Exh	1987-88	10-1550	1.500 Head Dia. 0.3132T Stem Dia. Round Groove. +3, +15 O/S Stem Avail. 4.355 OAL
	Exh	1989-93	10-1591	1.500 Head Dia. 0.313 Stem Dia. Round Groove. +3, +15 O/S Stem Avail.
	Int	1979-86	10-1438	1.720 Head Dia. 0.341 Stem Dia. 2 Square Grooves. +3, +15 O/S Stem Avail.
	Int	1987-88	10-1551	1.720 Head Dia. 0.3135 Stem Dia. Round Groove. +3, +15 O/S Stem Avail. 4.394 OAL
	Int	1989-93	10-1592	1.720 Head Dia. 0.313 Stem Dia. Round Groove. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1977-91	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Exh	1985-93	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1977-93	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both	1989-93	30-8040	2.250 OAL. 0.315 I.D.
	Both	1977-93	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 64</b>	<b>151 C.I. (2.5L) OHV 8V Pontiac Vin 1,2,5,9,AEF,R,U,V</b>			<b>1977-93 L4 BORE - 4.00"/101.6mm</b>
Spring	Both	1988-93	<b>32-1301-D</b>	2.093 Free Length. w/ Damper
	Both	1987-88	<b>32-1374</b>	1.780 Free Length
	Both	1991-92	<b>32-1391-D</b>	1.938 Free Length. w/ Damper
	Both	1977-86	<b>32-685-D</b>	2.050 Free Length. w/ Damper
Keeper	Both	1987-93	<b>34-217</b>	0.311 Stem Dia. 1 Round Groove. Heat Treated
	Both	1977-86	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1985-93	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up to Install
	Both	1985-93	<b>36-2148G</b>	Lifter Guide, Dogbone Type
Valve Stem Seal	Both	1977-84	<b>36-969</b>	Hydraulic
	Both	1977-91	<b>38-1054-70</b>	Teflon And Rubber. 11/32 x 0.562
	Both	1977-91	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1977-92	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1977-91	<b>38-252-45</b>	Viton. Umbrella. 3/8
	Both	1977-91	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail. 11/32
	Both	1977-91	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1977-86	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Exh	1987-93	<b>38-821-45</b>	Viton. Ring And Band.
	Int	1987-93	<b>38-819-45</b>	Viton. Ring And Band.
Push Rod		1977-80	<b>74-6317</b>	9.682 Length
Expansion Plug Kit		1987-93	<b>97-120</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1977-86	<b>97-74</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 65</b>	<b>153 C.I. (2.5L) Chev. 8V</b>			<b>1962-70 L4 BORE - 3.88"/98.4mm</b>
Valve	Exh	1962-70	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1962-70	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1963-65	<b>10-1646S</b>	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face
	Exh	1962-66	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1962-70	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1962-70	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1962-70	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1962-70	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1962-70	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1962-70	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1962-63	<b>32-575</b>	1st Des. 2.030 Free Length
	Both	1962-70	<b>32-685-D</b>	2nd Des. 2.050 Free Length w/ Damper
Keeper	Both	1962-70	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1962-66	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1962-70	<b>36-992</b>	Mechanical High Performance
Rotator / Retainer	Both	1962-70	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1962-70	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1962-70	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1962-70	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1962-70	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1962-70	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 65</b>	<b>153 C.I. (2.5L) Chev. 8V</b>		<b>1962-70 L4</b>	<b>BORE - 3.88"/98.4mm</b>
Valve Stem Seal	Both	1962-70	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both	1962-70	<b>40-2844</b>	Rocker Arm. Stamped
Rocker Kit	Both	1962-70	<b>41-2402</b>	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Rocker Component		1962-70	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1962-70	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Retainer	Both	1962-70	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1962-70	<b>74-6317</b>	9.682 Length
Expansion Plug Kit		1962-70	<b>97-7</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 66</b>	<b>169 C.I. (2.8L) DOHC 16V Vortec Vin 8</b>		<b>2004-06 L4</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	2004-06	<b>10-1999</b>	1.201 Head Dia.
	Int	2004-06	<b>10-1998</b>	1.457 Head Dia.
Valve Seat Insert	Exh	2004-06	<b>21-1250-65</b>	1.030 I.D. 1-1/4 O.D. 0.215 Depth. Opt. OS O.D.
Guide	Both	2004-06	<b>30-8556</b>	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2004-06	<b>32-04051</b>	1.770 Free Length
Keeper	Both	2004-06	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Lifter	Both	2004-06	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2004-06	<b>38-354-45</b>	Viton. Top Hat.
<b>LINE 67</b>	<b>170 C.I. (2.8L) DOHC 24V Vin 1,4,6,T</b>		<b>2005-11 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2010-11	<b>10-13230</b>	1.142 Head Dia.
	Exh	2005-09	<b>10-13335</b>	1.205 Head Dia. 0.2344 Stem. Nitrided
	Int	2005-11	<b>10-13211</b>	1.384 Head Dia. 0.2348 Stem
Guide	Both	2005-11	<b>30-3112</b>	1.655 OAL. 0.2355 I.D. 0.4358 O.D.
Spring	Both	2005-11	<b>32-5001</b>	1.729 Free Length. Conical
Keeper	Both	2005-11	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2005-11	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2005-11	<b>38-6036-55</b>	Viton. Top Hat
<b>LINE 68</b>	<b>173 C.I. (2.8L) Chev. OHV 12V Vin 1,7,9,BLRSWXZ</b>		<b>1980-93 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1980-86	<b>10-1394</b>	1.307 Head Dia. 0.341 Stem Dia. +3, +15 O/S Stem May Be Avail.
	Exh	1980-93	<b>10-1480</b>	1.425 Head Dia. 0.341 Stem Dia. +3, +15 O/S Stem May Be Avail.
	Exh	1987-89	<b>10-1560</b>	1.425 Head Dia. Alum. Head Exc. H.O. 0.314 Stem Dia. +3, 15 O/S Stem Avail.
	Exh	1987-89	<b>10-2058</b>	0.020 shorter than 10-1560
	Int	1980-86	<b>10-1395</b>	1.600 Head Dia. 0.341 Stem Dia. +3, +15 O/S Stem May Be Avail.
	Int	1980-93	<b>10-1481</b>	1.718 Head Dia. 0.341 Stem Dia. +3, +15 O/S Stem May Be Avail.
	Int	1987-89	<b>10-1561</b>	1.718 Head Dia. Alum. Head Exc. H.O. 0.314 Stem Dia. +3, +15 O/S Stem Avail.
	Int	1987-89	<b>10-2057</b>	0.020 shorter than 10-1561
Valve Seat Insert	Exh	1980-86	<b>20-1437-4</b>	1-1/8 I.D. 1-7/16 O.D. 7/32 Depth, w/ 1.307 Valve Head Dia. Cast Iron Heads
	Exh	1980-93	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. w/ 1.426 Valve Head Dia. Cast Iron Heads.
	Int	1980-86	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.600 Valve Head.
	Int	1980-93	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.718 Head Dia.
	Exh	1987-89	<b>21-1500-73</b>	1.230 I.D. 1-1/2 O.D. 0.278 Depth. Alum. Heads
	Int	1987-89	<b>21-1750-65</b>	1.468 I.D. 1-3/4 O.D. 0.276 Depth. Alum. Heads
Guide	Both	1987-93	<b>30-8112</b>	2.085 OAL. Alum. Head. 0.316 I.D. +2 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 68</b>	<b>173 C.I. (2.8L) Chev. OHV 12V Vin 1,7,9,BLRSWXZ</b>			<b>1980-93 V6 BORE - 3.50"/88.9mm</b>	
Guide	Both	1980-93	30-9560	Cast Iron Heads. 2.000 OAL. Spiral 0.341 I.D. 30-7560 Plain I.D. Also Avail.	
Spring	Both	1980-86	32-1038-D	1.910 Free Length. w/ Damper	
	Both	1981-93	32-1190-D	1.950 Free Length. w/ Damper	
	Both	1987-89	32-1268	w/o Damper 2.110 Free Length	
Keeper	Both	1980-89	34-217	0.311 Stem Dia. 1 Round Groove. Heat Treated	
	Both	1980-93	34-555	0.341 Stem Dia. 1 Groove. Heat Treated.	
Lifter	Both	1980-93	36-2095	Hydraulic	
Rotator / Retainer	Both	1980-89	37-4003	Rotator. OEM # 14042575	
Valve Stem Seal	Both	1980-93	38-1054-70	Teflon And Rubber. Guide O.D. 0.562	
	Both	1980-93	38-1100-75	All Teflon. 11/32 x 0.562	
	Both	1980-93	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1980-93	38-252-45	Viton. Umbrella.	
	Both	1980-93	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1980-93	38-830-45	Viton. Ring And Band. 5/16 Stem x 0.500	
	Both	1980-87	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Exh	1980-93	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
	Rocker Component	Both	1980-93	40-2864	Rocker Arm. Stamped. Exc. '87-89 Vin W
	Rocker Kit	Both	1980-93	41-2407	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1980-93	42-2948	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut	
Retainer	Both	1980-93	55-6105	Chrome Moly. 1.200 O.D. 11/32 Stem	
Push Rod		1980-93	74-6342	6.163 Length	
Expansion Plug Kit		1980-93	97-75	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 69</b>	<b>2921cc (2.9L) DOHC 16V VIN 9</b>			<b>2007-12 L4 BORE - 95.5mm/3.76"</b>	
Valve	Exh	2007-12	10-13046	1.323 Head Dia.	
	Int	2007-12	10-13179	1.525 Head Dia.	
Guide	Both	2007-12	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.	
Spring	Both	2007-12	32-5008	1.760 Free Length. Conical	
Keeper	Both	2007-12	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2007-12	36-7082	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2007-12	38-6995-45	Viton. Top Hat.	
<b>LINE 70</b>	<b>181 C.I. (3.0L) Buick Vin E,L OHV 12V</b>			<b>1982-88 V6 BORE - 3.80"/96.52mm</b>	
Valve	Exh	1982-88	10-1387	1.500 Head Dia. w/ Seal Groove. +3, +15 O/S Stem May Be Avail.	
	Exh	1982-88	10-1389	1.500 Head Dia. w/o Seal Groove +3, +15 O/S Stem Avail.	
	Int	1982-88	10-1388	1.710 Head Dia. +3, +15 O/S Stem Avail.	
Valve Seat Insert	Exh	1982-88	20-1562-2	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.	
	Exh	1985-88	20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth	
	Int	1982-88	20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.	
Guide	Exh	1982-88	30-9604	2.625 OAL. Spiral 0.344 I.D. 30-5604 Plain I.D. Also Avail.	
	Int	1982-88	30-9459	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail.	
Spring	Both	1983-86	32-1268	2.110 Free Length	
	Both	1987-88	32-1302-D	2.221 Free Length. w/ Damper	
Keeper	Both	1982-88	34-555	1 Square Groove. Heat Treated	
Lifter	Both	1982-88	36-969	Hydraulic	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 70</b>	<b>181 C.I. (3.0L) Buick Vin E,L OHV 12V</b>		<b>1982-88 V6</b>	<b>BORE - 3.80"/96.52mm</b>
Valve Stem Seal	Both	1982-88	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1988-88	<b>38-830-45</b>	Viton. Ring And Band.
	Both	1982-88	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1982-88	<b>38-956-45</b>	Viton. Ring And Band. w/ 0.605 Guide O.D.
Rocker Component	Both	1982-84	<b>40-2813</b>	Rocker Arm, RH Stamped Steel
	Both	1982-84	<b>40-2814</b>	Rocker Arm, LH Stamped Steel.
Push Rod		1985-88	<b>74-6363</b>	7.260 Length
Expansion Plug Kit		1982-88	<b>97-119</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 71</b>	<b>2997cc (3.0L) DOHC 24V Vin 5,G,Y</b>		<b>2010-14 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2010-14	<b>10-13212</b>	1.205 Head Dia. 0.2344 Stem
	Int	2010-14	<b>10-13211</b>	1.384 Head Dia. 0.2348 Stem
Guide	Both	2010-14	<b>30-3112</b>	1.655 OAL. 0.2355 I.D. 0.4358 O.D.
Spring	Both	2010-14	<b>32-5001</b>	1.729 Free Length. Conical
	Both	2010-14	<b>32-5008</b>	1.760 Free Length. Conical
Keeper	Both	2010-14	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2010-14	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2010-14	<b>38-6036-55</b>	Viton. Top Hat
Retainer	Both	2010-14	<b>55-6735</b>	Chrome Moly. 0.735 O.D. 6mm Stem
<b>LINE 72</b>	<b>181 C.I. (3.0L) F.I. DOHC 24V Vin B,R</b>		<b>1997-05 V6</b>	<b>BORE - 3.39"/ 86mm</b>
Valve	Exh	1997-05	<b>10-2040S</b>	1.142 Head Dia. Bi-Metallic, Stellite
	Int	1997-05	<b>10-10784</b>	1.260 Head Dia.
Valve Seat Insert	Exh	1997-05	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth. Machine Depth
	Int	1997-05	<b>22-1375-1</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. Req. Adjustable Cutter. Machine Depth
Guide	Exh	1997-05	<b>30-3011</b>	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	1997-05	<b>30-3010</b>	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	1997-05	<b>32-2488</b>	1.673 Free Length
Keeper	Both	1997-05	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	1997-05	<b>38-1329-45</b>	Viton. Metal Clad.
<b>LINE 73</b>	<b>189 C.I. (3.1L) Chev. OHV 12V Vin D,T,V,W</b>		<b>1988-95 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1988-95	<b>10-1480</b>	1.425 Head Dia. 0.341 Stem Dia. Cast Iron Head. +3, +15 O/S Stem May Be Avail.
	Exh	1988-94	<b>10-1560</b>	1.425 Head Dia. 0.314 Stem Dia. Alum. Head. +3, +15 O/S Stem Avail.
	Exh.	1988-94	<b>10-2058</b>	0.020 shorter than 10-1560
	Int	1988-95	<b>10-1481</b>	1.718 Head Dia. 0.341 Stem Dia. Cast Iron Head. +3, +15 O/S Stem May Be Avail.
	Int	1988-94	<b>10-1561</b>	1.718 Head Dia. 0.314 Stem Dia. Alum. Head. +3, +15 O/S Stem Avail.
	Int	1988-94	<b>10-2057</b>	0.020 shorter than 10-1561
Valve Seat Insert	Exh	1988-95	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. Cast Iron Heads.
	Int	1988-95	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth. Cast Iron Heads.
	Exh	1988-94	<b>21-1500-73</b>	1.230 I.D. 1-1/2 O.D. 0.278 Depth. Alum. Heads
	Int	1988-94	<b>21-1750-65</b>	1.468 I.D. 1-3/4 O.D. 0.276 Depth. Alum. Heads
Guide	Both	1988-95	<b>30-8112</b>	2.085 OAL. Alum. Head. 0.316 I.D. +2 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 73</b>	<b>189 C.I. (3.1L) Chev. OHV 12V Vin D,T,V,W</b>		<b>1988-95 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Guide	Both	1988-95	<b>30-9560</b>	Cast Iron Heads. 2.000 OAL. Spiral 0.341 I.D. 30-7560 Plain I.D. Also Avail.
Spring	Both	1990-95	<b>32-1190-D</b>	1.950 OAL 1990-92 Camaro & Firebird
	Both	1993-93	<b>32-1265</b>	1.965 Free Length. Conical Style
	Both	1988-95	<b>32-1268</b>	2.110 Free Length. Exc. '90-92 Camaro, Firebird.
Keeper	Both	1988-95	<b>34-217</b>	0.311 Stem Dia. 1 Round Groove. Heat Treated
	Both	1988-95	<b>34-555</b>	0.341 Stem Dia. 1 Groove. Heat Treated
Lifter	Both	1988-95	<b>36-2095</b>	Hydraulic
Valve Stem Seal	Both	1988-95	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1988-95	<b>38-830-45</b>	Viton. Ring And Band.
Rocker Component	Both	1988-95	<b>40-2864</b>	Rocker Arm. Stamped
Rocker Kit	Both	1988-95	<b>41-2407</b>	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1988-95	<b>42-2948</b>	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Retainer	Both	1988-94	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
	Both	1988-94	<b>55-6198</b>	Chrome Moly. 1.038 O.D. 8mm Stem
Push Rod		1988-95	<b>74-6342</b>	6.163 Length
Expansion Plug Kit		1988-95	<b>97-128</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 74</b>	<b>189 C.I. (3.1L) Chev. 12V Vin J, M OHV</b>		<b>1994-05 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1994-05	<b>10-1811</b>	1.425 Head Dia. 0.313 Stem Dia. 0.189 Tip To Groove
	Int	1994-99	<b>10-1810</b>	1.718 Head Dia. 0.313 Stem Dia. 0.184 Tip To Groove. +5 & +15 O/S Stem May Be Avail.
	Int	2000-05	<b>10-1929</b>	1.760 Head Dia.
Valve Seat Insert	Exh	1994-05	<b>21-1500-73</b>	1.230 I.D. 1-1/2 O.D. 0.278 Depth
	Int	1994-99	<b>21-1750-65</b>	1.468 I.D. 1-3/4 O.D. 0.276 Depth
	Int	2000-05	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
Guide	Both	2000-05	<b>30-3067</b>	0.3155 I.D., 0.5525 O.D., 2.085 OAL
	Both	1994-99	<b>30-8112</b>	2.085 OAL. Alum. Head. 0.316 I.D. +2 O/S Avail.
Spring	Both	1994-05	<b>32-1265</b>	1.965 Free Length. Conical Style
Keeper	Both	1994-05	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
Lifter	Both	1994-05	<b>36-2270</b>	Hydraulic Roller
Valve Stem Seal	Both	1994-99	<b>38-031-45</b>	Top Hat. Viton
	Both	2000-05	<b>38-809-45</b>	Viton. Top Hat
Push Rod	Exh	1994-05	<b>74-6474</b>	6.074 Length
	Int	1994-05	<b>74-6475</b>	5.750 Length
Expansion Plug Kit		1994-05	<b>97-128</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 75</b>	<b>194 C.I. (3.2L) Chev. 12V</b>		<b>1962-67 L6</b>	<b>BORE - 3.50"/90.49mm</b>
Valve	Exh	1962-67	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1962-67	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1962-67	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1962-67	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1962-67	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1962-67	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1962-67	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1962-67	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 75</b>	<b>194 C.I. (3.2L) Chev. 12V</b>			<b>1962-67 L6</b>	<b>BORE - 3.50"/90.49mm</b>
Guide	Int	1962-67	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
Spring	Both	1962-64	<b>32-685-D</b>	2.050 Free Length. w/ Damper	
	Both	1965-67	<b>32-886</b>	1.900 Free Length. w/o Damper	
Keeper	Both	1962-67	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1962-67	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
	Both	1962-67	<b>36-992</b>	Mechanical High Performance	
Valve Stem Seal	Both	1962-67	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562	
	Both	1962-67	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1962-67	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1962-67	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1962-67	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
Both	1962-67	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.		
Rocker Component	Both	1962-67	<b>40-2844</b>	Rocker Arm. Stamped	
Rocker Kit	Both	1962-67	<b>41-2402</b>	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut	
Rocker Component		1962-67	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In	
		1962-67	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Retainer	Both	1962-67	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem	
Push Rod		1962-67	<b>74-6317</b>	9.682 Length	
Expansion Plug Kit		1962-67	<b>97-7</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 76</b>	<b>194 C.I. (3.2L) 8V</b>			<b>1961-63 L4</b>	<b>BORE - 4.0625 / 103mm</b>
Spring	Both	1961-63	<b>32-576</b>	Outer. 1.98 Free Length	
	Both	1961-63	<b>32-577</b>	Inner. 1.760 Free Length	
Keeper	Both	1961-63	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1961-63	<b>36-951</b>	Hydraulic	
Valve Stem Seal	Both	1961-63	<b>38-1065-70</b>	Teflon And Rubber.	
	Both	1961-63	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1961-63	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
<b>LINE 77</b>	<b>197 C.I. (3.2L) DOHC 24V Cad. Vin N</b>			<b>2003-04 V6</b>	<b>BORE - 87.5mm/3.44"</b>
Valve	Exh	2003-04	<b>10-2040S</b>	1.142 Head Dia. Bi-Metallic, Stellite	
	Int	2003-04	<b>10-10784</b>	1.260 Head Dia.	
Guide	Exh	2003-04	<b>30-3011</b>	1.378 OAL. Manganese Bronze 31-3011 Also Avail.	
	Int	2003-04	<b>30-3010</b>	1.773 OAL. Manganese Bronze 31-3010 Also Avail.	
Spring	Both	2003-04	<b>32-2488</b>	1.673 Free Length	
Keeper	Both	2003-04	<b>34-5021</b>	3 Round Beads. 0.234 Stem	
Lifter	Both	2003-04	<b>36-7021</b>	Hydraulic	
Valve Stem Seal	Both	2003-04	<b>38-1329-45</b>	Viton. Metal Clad.	
<b>LINE 78</b>	<b>196 C.I. (3.2L) Buick 12V OHV Vin C</b>			<b>1978-79 V6</b>	<b>BORE - 3.54"/90mm</b>
Valve	Exh	1978-78	<b>10-1352</b>	1.425 Head Dia.	
	Exh	1979-79	<b>10-1387</b>	1.500 Head Dia. +3, +15 O/S Stem May Be Avail.	
	Int	1979-79	<b>10-1388</b>	1.710 Head Dia. +3, +15 O/S Stem Avail.	
Valve Seat Insert	Exh	1978-79	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. w/ 1.426 Valve Head Dia. Cast Iron Heads.	
	Exh	1978-79	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth. w/ 1.500 Valve Head Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 78</b>	<b>196 C.I. (3.2L) Buick 12V OHV Vin C</b>		<b>1978-79 V6</b>	<b>BORE - 3.54"/90mm</b>
Valve Seat Insert	Int	1978-79	20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth, w/ 1.625 Valve Head Dia.
	Int	1978-79	20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.710 Valve Head Dia.
Guide	Exh	1978-79	30-9105	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Int	1978-79	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Keeper	Both	1978-79	34-555	1 Square Groove. Heat Treated
Lifter	Both	1978-79	36-969	Hydraulic
Valve Stem Seal	Both	1978-79	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1978-79	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1978-79	38-231-25	Polyacrylic. 2-Ring. 38-231-15 Nitrile Matl. Also Avail.
	Both	1978-79	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Rocker Component	Both	1978-79	40-2813	Rocker Arm, RH Stamped Steel. Exc '86 Vin B, '86-88 Vin 3, '89 Vin 7, '88-91 Vin C, '90-91, '91 Vin 1.
	Both	1978-79	40-2814	Rocker Arm, LH Stamped Steel.
Expansion Plug Kit		1978-79	97-119	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 79</b>	<b>200 C.I. (3.3L) Chev. 12V OHV Vin M</b>		<b>1978-79 V6</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1978-79	10-1371	1.380 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1978-79	10-1372	1.600 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1978-79	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1978-79	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Exh	1978-79	30-9867	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
	Int	1978-79	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1978-79	32-1943-D	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1978-79	32-880-D	2.030 Free Length. w/ Damper
	Both	1978-79	32-943-D	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both	1978-79	34-555	1 Square Groove. Heat Treated
Lifter	Both	1978-79	36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Rotator / Retainer	Both	1978-79	37-4003	Rotator. OEM # 14042575
Valve Stem Seal	Both	1978-79	38-1054-70	Teflon And Rubber. 0.341 Stem Dia.
	Both	1978-79	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1978-79	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1978-79	38-250-35	Glass Filled Nylon. Umbrella.
	Both	1978-79	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1978-79	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1978-79	38-951-25	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both	1978-79	40-2842	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both	1978-79	41-2401	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1978-79	41-2501	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component		1978-79	42-2920	Rocker Stud. 3/8x24 x2.500 Press-In
		1978-79	42-2921	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Push Rod		1978-79	74-6034	7.798 Length
Expansion Plug Kit		1978-79	97-87	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 80</b>	<b>204 C.I. (3.3L) Buick 12V Vin N OHV</b>		<b>1989-93 V6</b>	<b>BORE - 3.70"/94mm</b>
Valve	Exh	1989-93	10-1710	1.490 Head Dia. +3 & +15 O/S Stem May Be Avail.
	Int	1989-93	10-1711	1.710 Head Dia. +3 O/S Stem May Be Avail.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 80</b>	<b>204 C.I. (3.3L) Buick 12V Vin N OHV</b>			<b>1989-93 V6 BORE - 3.70"/94mm</b>
Valve Seat Insert	Exh	1989-93	<b>20-1562-42</b>	1-3/16T I.D. 1-9/16 O.D. 7/32 Depth, 1-3/16 x 1-3/8 Tapered I.D.
	Exh	1989-93	<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int	1989-93	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both	1989-93	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1989-93	<b>32-1303</b>	1.981 Free Length. w/o Damper
Keeper	Both	1989-93	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1989-93	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	1989-93	<b>36-2148G</b>	Lifter Guide, Dogbone Type
Valve Stem Seal	Both	1989-93	<b>38-956-45</b>	Viton. Ring And Band.
	Exh	1989-93	<b>38-829-45</b>	Viton. Ring And Band.
	Int	1989-93	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Expansion Plug Kit		1989-93	<b>97-123</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 81</b>	<b>207 C.I. (3.4L) DOHC 24V Vin X</b>			<b>1991-97 V6 BORE - 3.62"/92mm</b>
Valve	Exh	1991-97	<b>10-1702</b>	1.260 Head Dia. 0.2739 Stem
	Int	1991-97	<b>10-1703</b>	1.437 Head Dia. 0.2742 Stem
Valve Seat Insert	Exh	1991-97	<b>21-1375-56</b>	1.102 I.D. 1-3/8 O.D. 0.260 Depth.
	Int	1991-97	<b>21-1500-73</b>	1.230 I.D. 1-1/2 O.D. 0.278 Depth
Guide	Both	1991-97	<b>30-8593</b>	1.640 OAL
Spring	Both	1991-97	<b>32-2490</b>	1.700 Free Length. Conical
Lifter	Both	1996-97	<b>36-2273</b>	Hydraulic Bucket. 1.298 O.D. 2nd Design
Valve Stem Seal	Both	1991-97	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1991-97	<b>38-827-45</b>	Viton. Metal Clad.
	Both	1991-97	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Retainer	Both	1991-97	<b>55-6569</b>	Chrome Moly. 0.987 O.D. 7mm Stem
Expansion Plug Kit		1991-97	<b>97-154</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 82</b>	<b>207 C.I. (3.4L) 12V Vin E,F,S,8 OHV</b>			<b>1993-09 V6 BORE - 3.62"/92mm</b>
Valve	Exh	1993-95	<b>10-1480</b>	1.425 Head Dia. 0.341 Stem. +3, +15 O/S Stem May Be Avail.
	Exh	1994-09	<b>10-1811</b>	1.425 Head Dia. 0.313 Stem
	Int	1993-95	<b>10-1481</b>	1.718 Head Dia. 0.341 Stem. +3, +15 O/S Stem May Be Avail.
	Int	1994-97	<b>10-1810</b>	1.718 Head Dia. 0.314 Stem. +5 & +15 O/S Stem May Be Avail.
	Int	1998-09	<b>10-1929</b>	1.760 Head Dia. 0.314 Stem
Valve Seat Insert	Exh	1993-95	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Exh	1996-09	<b>20-1500-3</b>	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. +3, +30 O/S
	Int	1996-09	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
	Int	1993-95	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
	Exh	1996-09	<b>21-1500-73</b>	1.230 I.D. 1-1/2 O.D. 0.278 Depth
	Int	1996-09	<b>21-1750-65</b>	1.468 I.D. 1-3/4 O.D. 0.276 Depth
Guide	Int	1996-09	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
	Both	2000-09	<b>30-3067</b>	2.085 OAL. 0.3155 I.D. 0.5525 O.D.
	Both	1994-99	<b>30-8112</b>	2.085 OAL
Spring	Both	1993-95	<b>30-9560</b>	2.000 OAL. 0.344 I.D. 0.502 O.D. Spiral I.D. 30-7560 Plain I.D. Also Avail. Conversion Guide.
	Both	1993-95	<b>32-1190-D</b>	1.950 Free Length. w/ Damper
	Both	1996-09	<b>32-1265</b>	1.965 Free Length. Conical Style
Keeper	Both	1994-09	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 82</b>	<b>207 C.I. (3.4L) 12V Vin E,F,S,8 OHV</b>		<b>1993-09 V6</b>	<b>BORE - 3.62"/92mm</b>
Keeper	Both	1993-95	34-555	1 Square Groove. Heat Treated.
Lifter	Both	1993-94	36-2095	Hydraulic
	Both	1995-09	36-2270	Hydraulic Roller
Valve Stem Seal	Both	1996-99	38-031-45	Top Hat. Viton
	Both	2000-09	38-809-45	Viton. Top Hat
	Both	1993-95	38-827-45	Viton. Metal Clad. Vin S
	Both	1993-95	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1993-95	40-2864	Rocker Arm. Stamped. Vin S - Camaro, Firebird
Rocker Kit	Both	1993-95	41-2407	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1993-95	42-2948	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Push Rod		1993-95	74-6342	6.163 Length. Vin S
	Exh	1996-09	74-6474	6.074 Length
	Int	1996-09	74-6475	5.750 Length
<b>LINE 83</b>	<b>3471cc (3.5L) SOHV 24V (Honda) J35</b>		<b>2004-08 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2004-08	10-10779	1.181 Head Dia.
	Int	2004-08	10-10778	1.378 Head Dia.
Guide	Exh	2004-08	30-8157	2.130 OAL. 0.436 O.D.
	Int	2004-08	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Keeper	Both	2004-08	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2004-08	38-592-55	Viton. Metal Clad
<b>LINE 84</b>	<b>211 C.I. (3.5L) OHV 12V VIN 8,L</b>		<b>2004-07 V6</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2004-07	10-2173	1.425 Head Dia.
	Int	2004-07	10-2172	1.760 Head Dia.
Keeper	Both	2004-07	34-5005	0.314 Stem. Round Bead in Middle.
Lifter	Both	2004-07	36-2270	Hydraulic Roller
Valve Stem Seal	Both	2004-07	38-809-45	Viton. Top Hat
Push Rod	Exh	2004-07	74-6474	6.074 Length
	Int	2004-07	74-6475	5.750 Length
<b>LINE 85</b>	<b>211 C.I. (3.5L) DOHC 20V Vortec Vin 6</b>		<b>2004-06 L5</b>	<b>BORE - 3.66"/93mm</b>
Valve	Exh	2004-06	10-1999	1.201 Head Dia.
	Int	2004-06	10-1998	1.457 Head Dia.
Valve Seat Insert	Exh	2004-06	21-1250-65	1.030 I.D. 1-1/4 O.D. 0.215 Depth. Opt. OS O.D.
Guide	Both	2004-06	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2004-06	32-04051	1.770 Free Length
Keeper	Both	2004-06	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2004-06	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2004-06	38-354-45	Viton. Top Hat.
<b>LINE 86</b>	<b>214 C.I. (3.5L) DOHC 24V Vin H</b>		<b>1999-02 V6</b>	<b>BORE - 3.52"/89.5mm</b>
Valve	Exh	1999-02	10-2054	1.103 Head Dia.
	Int	1999-02	10-2053	1.426 Head Dia.
Spring	Both	1999-02	32-2494	1.668 Length
Keeper	Both	1999-02	34-07209	1 Round Groove
Lifter	Both	1999-02	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1999-02	38-354-45	Viton. Top Hat.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 87</b>	<b>214 C.I. (3.5L) OHV 12V VVT Vin K,N</b>		<b>2006-11 V6</b>	<b>BORE - 99mm/3.89"</b>
Valve	Exh	2006-11	<b>10-13044</b>	1.523 Head Dia.
	Int	2006-11	<b>10-13043</b>	1.870 Head Dia.
Valve Seat Insert	Int	2006-11	<b>21-1937-55</b>	1.640T I.D. 1-15/16 O.D. 0.290 Machine to Depth
Guide	Both	2006-11	<b>30-3053</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D.
Keeper	Both	2006-11	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
Lifter	Both	2006-11	<b>36-2270</b>	Hydraulic Roller
Valve Stem Seal	Exh	2006-11	<b>38-901-45</b>	Viton. Top Hat
	Int	2006-11	<b>38-900-45</b>	Viton. Top Hat
<b>LINE 88</b>	<b>215 C.I (3.5L) 16V BUICK</b>		<b>1961-63 V8</b>	<b>BORE - 3.50"/89mm</b>
Valve Seat Insert	Exh	1961-63	<b>20-1437-3</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1961-63	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Spring	Both	1961-63	<b>32-685-D</b>	2.050 Free Length. w/ Damper
Valve Stem Seal	Both	1962-63	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
<b>LINE 89</b>	<b>215 C.I. (3.5L) 12V Pontiac</b>		<b>1964-65 L6</b>	<b>BORE - 3.75"/95.2mm</b>
Valve	Exh	1964-65	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1964-65	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1964-65	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1964-65	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1964-65	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1964-65	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1964-65	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1964-65	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1964-65	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1964-64	<b>32-575</b>	2.030 Free Length
Keeper	Both	1964-65	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1964-65	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Valve Stem Seal	Both	1964-65	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1964-65	<b>40-2844</b>	Rocker Arm. Stamped
Rocker Kit	Both	1964-65	<b>41-2402</b>	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Rocker Component	Both	1964-65	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
	Both	1964-65	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Push Rod	Both	1964-65	<b>74-6317</b>	9.682 Length
<b>LINE 90</b>	<b>216 C.I. (3.5L) Chev. 12V</b>		<b>1937-53 L6</b>	<b>BORE - 3.40"/88.9mm</b>
Valve	Exh	1950-53	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1950-53	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1947-53	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1941-52	<b>10-199</b>	1.641 Head Dia.
Valve Seat Insert	Exh	1937-53	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1937-53	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Exh	1938-40	<b>30-1476</b>	2.188 OAL. 0.5655 O.D.
	Exh	1941-53	<b>30-1527</b>	2.438 OAL
	Int	1938-40	<b>30-1453</b>	3.219 OAL Special Order Only
	Int	1941-53	<b>30-1732</b>	3.344 OAL

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 90</b>	<b>216 C.I. (3.5L) Chev. 12V</b>			<b>1937-53 L6</b>	<b>BORE - 3.40"/88.9mm</b>
Spring	Both	1937-53	<b>32-558</b>	2.250 Free Length	
	Both	1938-53	<b>32-696</b>	2.160 Free Length	
Keeper	Both	1942-53	<b>34-555</b>	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1937-53	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
Expansion Plug Kit		1937-53	<b>97-60</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 91</b>	<b>217 C.I. (3.6L) DOHC 24V VIN 3,7,8,B,D,V</b>			<b>2004-16 V6</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2012-15	<b>10-13212</b>	1.205 Head Dia. 0.2344 Stem. 3.748 Length	
	Exh	2004-15	<b>10-13335</b>	1.205 Head Dia. 0.2344 Stem. 3.824 Length. Nitrided	
	Int	2012-15	<b>10-13333</b>	1.510 Head Dia.	
	Int	2004-15	<b>10-13334</b>	1.457 Head Dia. 0.2348 Stem	
Guide	Both	2004-15	<b>30-3112</b>	1.655 OAL. 0.2355 I.D. 0.4358 O.D.	
Spring	Both	2004-15	<b>32-5001</b>	1.729 Free Length. Conical	
	Both	2010-15	<b>32-5008</b>	1.760 Free Length. Conical	
Keeper	Both	2004-15	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.	
Lifter	Both	2004-15	<b>36-7082</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2004-15	<b>38-6036-55</b>	Viton. Top Hat.	
Retainer	Both	2004-15	<b>55-6735</b>	Chrome Moly. 0.735 O.D. 6mm Stem	
<b>LINE 92</b>	<b>3.7L (223 C.I.) DOHC 20V VVT Vin E</b>			<b>2007-12 L5</b>	<b>BORE - 95.5mm/3.75"</b>
Valve	Exh	2007-12	<b>10-13046</b>	1.323 Head Dia.	
	Int	2007-12	<b>10-13179</b>	1.525 Head Dia.	
Guide	Both	2007-12	<b>30-8556</b>	1.735 OAL 0.436 O.D. 0.236 I.D.	
Spring	Both	2007-12	<b>32-5008</b>	1.760 Free Length. Conical	
Keeper	Both	2007-12	<b>34-5021</b>	3 Round Beads. 0.234 Stem	
Lifter	Both	2007-12	<b>36-7082</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2007-12	<b>38-6995-45</b>	Viton. Top Hat.	
<b>LINE 93</b>	<b>224 C.I. (3.7L) 16V</b>			<b>1955-56 V8</b>	<b>BORE -</b>
Guide	Exh	1955-56	<b>30-1689</b>	2.625 OAL. 0.3445 I.D. 0.5645 O.D.	
	Int	1955-56	<b>30-1690</b>	3.000 OAL. 0.3435 I.D. 0.5645 O.D.	
Keeper	Both	1955-56	<b>34-555</b>	1 Square Groove. Heat Treated. OEM # 206880.	
Valve Stem Seal	Both	1955-56	<b>38-1065-70</b>	Teflon And Rubber.	
	Both	1955-56	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
<b>LINE 94</b>	<b>225 C.I. (3.7L) Buick</b>			<b>1964-67 V6</b>	<b>BORE - 3.75"/95.2mm</b>
Valve	Exh	1965-67	<b>10-976</b>	1.375 Head Dia.	
	Int	1965-67	<b>10-975</b>	1.625 Head Dia.	
Valve Seat Insert	Exh	1964-67	<b>20-1437-3</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.	
	Int	1964-67	<b>20-1750-1</b>	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.	
Guide	Both	1964-67	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.	
	Exh	1964-67	<b>30-9460</b>	2.500 OAL. Spiral I.D. 30-7460 Plain I.D. Also Avail.	
Spring	Both	1964-67	<b>32-804</b>	2.000 Free Length.	
Keeper	Both	1965-67	<b>34-219</b>	Heat Treated	
Valve Stem Seal	Both	1964-67	<b>38-937-15</b>	Nitrile. Ring And Band.	
	Both	1964-67	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
	Both	1964-65	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 94</b>	<b>225 C.I. (3.7L) Buick</b>		<b>1964-67</b>	<b>V6 BORE - 3.75"/95.2mm</b>
Expansion Plug Kit		1964-67	97-57	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 95</b>	<b>228 C.I. (3.7L) 12V</b>		<b>1941-53</b>	<b>V6 BORE - 3.5625"/90.5mm</b>
Guide	Both	1941-49	30-1476	2.188 OAL. 0.5655 O.D.
	Both	1950-53	30-1758	2.188 OAL. 0.5650 O.D.
Spring	Both	1942-53	32-558	2.250 Free Length
Keeper	Both	1942-53	34-555	1 Square Groove. Heat Treated.
Valve Stem Seal	Both	1942-53	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1942-53	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
<b>LINE 96</b>	<b>229 C.I. (3.8L) Chev. 12V OHV Vin 9, K</b>		<b>1980-84</b>	<b>V6 BORE - 3.736"/94.89mm</b>
Valve	Exh	1980-84	10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1980-84	10-1393	1.840 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1980-84	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1980-84	20-1937-1	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Exh	1980-84	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1980-84	30-9867	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1980-84	32-1943-D	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1980-84	32-880-D	2.030 Free Length. w/ Damper
	Both	1980-84	32-943-D	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both	1980-84	34-555	1 Square Groove. Heat Treated
Lifter	Both	1980-84	36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Rotator / Retainer	Both	1980-84	37-4003	Rotator. OEM # 14042575
Valve Stem Seal	Both	1980-84	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1980-84	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1980-84	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1980-84	38-250-35	Glass Filled Nylon. Umbrella.
	Both	1980-84	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1980-84	38-951-25	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Int	1980-84	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Rocker Component	Both	1980-84	40-2736	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1980-84	40-2842	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both	1980-84	41-2401	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1980-84	41-2501	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component		1980-84	42-2920	Rocker Stud. 3/8x24 x2.500 Press-In
		1980-84	42-2921	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Retainer	Both	1980-84	55-6105	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1980-84	74-6034	7.798 Length
		1980-84	74-6385	5/16" Dia. x 7.794"
Expansion Plug Kit		1980-84	97-87	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 97</b>	<b>230 C.I. (3.8L) OHC 12V</b>		<b>1966-67</b>	<b>L6 BORE - 3.875"/98mm</b>
Valve Seat Insert	Exh	1966-67	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. -N Nickel Matl. Avail.
	Int	1966-67	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Exh	1966-67	30-7271	2.375 OAL. Spiral 0.344 I.D. 0.564 O.D.
	Exh	1966-67	30-9459	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail. w/ 1BC
	Exh	1966-67	30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail. w/ 4BC

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 97</b>	<b>230 C.I. (3.8L) OHC 12V</b>				<b>1966-67 L6 BORE - 3.875"/98mm</b>
Guide	Int	1966-67	<b>30-7272</b>	2.250 OAL. Spiral 0.344 I.D. 0.564 O.D.	
	Int	1966-67	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
	Int	1966-67	<b>30-9607H</b>	2.250 OAL. Spiral 0.344 I.D. Hardened	
	Int	1966-67	<b>30-9946</b>	2.250 OAL. 0.502 O.D. Spiral 0.343 I.D. 30-7946 Plain I.D. Also Avail.	
Spring	Both	1966-67	<b>32-813</b>	Inner. 1.760 Free Length	
	Both	1966-67	<b>32-814</b>	Outer. 1.940 Free Length	
Keeper	Both	1966-67	<b>34-555</b>	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1966-67	<b>38-1065-70</b>	Teflon And Rubber.	
	Both	1966-67	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	

<b>LINE 98</b>	<b>230 C.I. (3.8L) Chev. 12V Vin S</b>				<b>1963-70 L6 BORE - 3.875"/98.4mm</b>
Valve	Exh	1963-70	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Exh	1963-70	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.	
	Exh	1963-70	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.	
	Int	1963-70	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Int	1963-70	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1963-70	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.	
	Int	1963-70	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.	
Guide	Exh	1963-70	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
	Int	1963-70	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.	
Spring	Both	1963-70	<b>32-685-D</b>	2.050 Free Length. w/ Damper	
	Both	1963-70	<b>32-886</b>	1.900 Free Length	
Keeper	Both	1963-70	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1963-70	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
	Both	1963-69	<b>36-969</b>	Hydraulic Flat	
Rotator / Retainer	Both	1963-70	<b>37-4003</b>	Rotator. OEM # 14042575	
Valve Stem Seal	Both	1963-70	<b>38-1054-70</b>	Teflon And Rubber.	
	Both	1963-70	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1963-70	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1963-70	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1963-70	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
Rocker Component	Both	1963-70	<b>40-2844</b>	Rocker Arm. Stamped	
Rocker Kit	Both	1963-70	<b>41-2402</b>	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut	
Rocker Component		1963-70	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In	
		1963-70	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Retainer	Both	1963-70	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem	
Push Rod		1963-70	<b>74-6317</b>	9.682 Length	
Expansion Plug Kit		1963-70	<b>97-7</b>	Steel Kit. Brass Kit Avail. In Suffix B	

<b>LINE 99</b>	<b>231 C.I. (3.8L) Buick 12V Vin ABCGKL1234789 OHV</b>				<b>1975-09 V6 BORE - 3.80"/96.52mm</b>
Valve	Exh	1975-78	<b>10-1318</b>	1.425 Head Dia. Long Groove	
	Exh	1977-78	<b>10-1352</b>	1.425 Head Dia.	
	Exh	1978-87	<b>10-1387</b>	1.500 Head Dia. Seal Groove	
	Exh	1979-88	<b>10-1389</b>	1.500 Head Dia. w/o Seal Groove. +3, +15 O/S Stem Avail.	
	Exh	1988-95	<b>10-1710</b>	1.490 Head Dia. +3 & +15 O/S Stem May Be Avail.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 99</b>	<b>231 C.I. (3.8L) Buick 12V Vin ABCGKL1234789 OHV</b>				
				<b>1975-09 V6 BORE - 3.80"/96.52mm</b>	
Valve	Exh	1996-09	<b>10-1735</b>	1.520 Head Dia. 0.313 Stem	
	Int	2004-09	<b>10-13013</b>	1.830 Head Dia.	
	Int	1978-88	<b>10-1388</b>	1.710 Head Dia. 1 Square Groove. +3, +15 O/S Stem Avail.	
	Int	1988-95	<b>10-1711</b>	1.710 Head Dia. +3 O/S Stem May Be Avail.	
	Int	1996-04	<b>10-1858</b>	1.800 Head Dia. 0.343 Stem. +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1975-78	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth w/ 1.425 Valve Head.	
	Exh	1988-09	<b>20-1562-42</b>	1-3/16T I.D. 1-9/16 O.D. 7/32 Depth. Tapered I.D.	
	Exh	1978-09	<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth	
	Int	1975-95	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.	
	Int	1978-89	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.	
	Int	1996-03	<b>20-1875-19</b>	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth.	
Guide	Both	1988-95	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.	
	Both	1996-09	<b>30-9690</b>	2.375 OAL. Spiral I.D.	
	Exh	1975-88	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.	
	Int	1975-88	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
Spring	Both	1986-87	<b>32-1302-D</b>	2.221 Free Length. W/ Shroud, Vin B	
	Both	1989-95	<b>32-1303</b>	1.981 Free Length. Vin L, C Exc. 90 Riviera, Reatta	
	Both	1976-87	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper	
	Both	1995-09	<b>32-2212</b>	1.958 Free Length. Conical	
	Both	1976-87	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.	
	Keeper	Both	1975-76	<b>34-219</b>	Long Groove
Both		1996-09	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.	
Both		1977-95	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1988-09	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install	
	Both	1988-09	<b>36-2148G</b>	Lifter Guide, Dogbone Type	
	Both	1979-87	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
	Both	1975-87	<b>36-969</b>	Hydraulic	
Valve Stem Seal	Both	1988-98	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562	
	Both	1988-98	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1988-98	<b>38-231-25</b>	Polyacrylic. 2-Ring. 38-231-15 Nitrile Matl. Also Avail.	
	Both	1997-09	<b>38-819-45</b>	Viton. Ring And Band.	
	Both	1988-91	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
	Both	1975-87	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	
	Exh	1975-91	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.	
	Exh	1975-95	<b>38-828-45</b>	Viton. Ring And Band.	
	Int	1995-99	<b>38-805-55</b>	Viton. Metal Clad.	
	Int	1985-95	<b>38-956-45</b>	Viton. Ring And Band. w/ 0.600 Guide O.D.	
	Rocker Component	Both	1975-00	<b>40-2813</b>	Rocker Arm, RH Stamped Steel. Exc '86 Vin B, '86-88 Vin 3, '89 Vin 7, '88-91 Vin C, '90-91, '91 Vin 1.
		Both	1975-00	<b>40-2814</b>	Rocker Arm, LH Stamped Steel. Exc '86 Vin B, '86-88 Vin 3, '89 Vin 7, '88-91 Vin C, '90-91, '91 Vin 1.
Retainer	Both	1996-09	<b>55-6130</b>	Chrome Moly. 1.300 O.D. 8mm Stem	
	Both	1975-98	<b>55-6231</b>	Chrome Moly. 1.250 O.D. 11/32 Stem	
Expansion Plug Kit		1975-95	<b>97-119</b>	Steel Kit. Brass Kit Avail. In Suffix B	
		1996-05	<b>97-151</b>	Steel Kit. Brass Kit Avail. In Suffix B	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 100</b>	<b>235 C.I. (3.8L) Chev. 12V</b>			<b>1941-62 L6</b>	<b>BORE - 3.50"/90.5mm</b>
Valve	Exh	1950-62	10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Exh	1950-62	10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.	
	Exh	1950-62	10-400	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.	
	Int	1950-53	10-199	1.641 Head Dia. w/o Powerglide trans.	
	Int	1953-62	10-308	1.875 Head Dia. +15 O/S Stem May Be Avail. 53: w/ Powerglide trans.	
Valve Seat Insert	Both	1941-62	20-1562-2	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.	
	Exh	1950-62	20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth	
	Int	1941-62	20-1937-17	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth.	
Guide	Exh	1941-62	30-1527	2.438 OAL	
	Int	1941-62	30-1732	3.344 OAL	
Spring	Both	1955-58	32-558	2.250 Free Length w/ Power Slide	
	Both	1941-62	32-696	2.160 Free Length	
Keeper	Both	1950-62	34-555	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1941-62	38-1054-70	Teflon And Rubber. Guide O.D. 0.562	
	Both	1941-62	38-1100-75	All Teflon. 11/32 x 0.562	
	Both	1950-62	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1941-62	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1941-62	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Both	1941-62	38-951-25	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	
Expansion Plug Kit		1941-62	97-6	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 101</b>	<b>237 C.I. (3.9L) OHV 12V VVT Vin 1,M,W</b>			<b>2006-11 V6</b>	<b>BORE - 99mm/3.90"</b>
Valve	Exh	2006-11	10-13044	1.523 Head Dia.	
	Int	2006-11	10-13043	1.870 Head Dia.	
Valve Seat Insert	Int	2006-11	21-1937-55	1.640T I.D. 1-15/16 O.D. 0.290 Machine to Depth	
Guide	Both	2006-11	30-3053	2.115 OAL. 0.3154 I.D. 0.500 O.D.	
	Both	2006-11	30-3053H	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened	
Keeper	Both	2006-11	34-5005	0.314 Stem. Round Bead in Middle.	
Lifter	Both	2006-11	36-2270	Hydraulic Roller	
Valve Stem Seal	Exh	2006-11	38-901-45	Viton. Top Hat	
	Int	2006-11	38-900-45	Viton. Top Hat	
<b>LINE 102</b>	<b>238, 248 (4.1L), 263 C.I. Buick</b>			<b>1941-55 V8</b>	<b>BORE - 3.094", 3.1875"</b>
Guide	Both	1941-53	30-1384	3.063 OAL. 0.6265 O.D. 0.3745 I.D.	
	Both	1941-50	30-1476	2.188 OAL. 0.5655 O.D. 0.3432 I.D.	
	Both	1951-55	30-1758	2.188 OAL. 0.5650 O.D. 0.3435 I.D.	
	Exh	1951-55	30-1740	2.813 OAL. 0.6895 O.D. 0.3745 I.D.	
	Int	1951-55	30-1803	2.938 OAL. 0.6895 O.D. 0.3745 I.D.	
Keeper	Both	1953-55	34-555	1 Square Groove. Heat Treated.	
<b>LINE 103</b>	<b>239C.I. (3.9L) Turbo Diesel Cummins Vin L OHV 8V</b>			<b>1989-91 L4</b>	<b>BORE - 4.02"/102mm</b>
Valve	Both	1989-91	10-1862	1.654 Head Dia. Natural Gas. 20 Degree Seat	
	Exh	1989-91	10-1664	1.654 Head Dia. w/ 45 Degree Seat	
	Int	1989-91	10-1665	1.772 Head Dia. w/ 30 Degree Seat	
Valve Seat Insert	Exh	1989-91	20-1750-7	1-3/8 I.D. 1-3/4 O.D. 7/32 Depth. Universal Insert For Heads w/o OEM Inserts	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 103</b>	<b>239C.I. (3.9L) Turbo Diesel Cummins Vin L OHV 8V</b>			<b>1989-91 L4 BORE - 4.02"/102mm</b>
Valve Seat Insert	Int	1989-91	20-1875-8	1-1/2T I.D. 1-7/8 O.D. 7/32 Depth. Universal Size For Heads w/o OEM Insert
	Exh	1989-91	22-1722-1	1.357T I.D. 1.722 O.D. 0.265 Depth
	Int	1989-91	22-1853-1	1.498T I.D. 1.853 O.D. 0.273 Depth
Guide	Both	1989-91	30-8277	2.500 OAL. 0.4395 O.D. OEM # 3906206
	Exh	1989-91	30-8178	2.052 OAL. 0.5527 O.D.
	Int	1989-91	30-8177	2.397 OAL. 0.5527 O.D.
Keeper	Both	1989-91	34-00250	1 Round Groove. OEM # 3900250
Valve Stem Seal	Both	1989-91	38-59-45	Viton. 2-Ring. For 5/16 Stem
	Both	1989-91	38-6114-55	Viton. Top Hat.
	Both	1989-91	38-830-45	Viton. Ring And Band.
Push Rod		1989-91	74-6448	10.910 Length. OEM # 3923262
Expansion Plug Kit		1989-91	97-7	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 104</b>	<b>244 C.I. (4.0L) DOHC 32V Northstar Vin C</b>			<b>1995-03 V8 BORE - 3.80"/96.5mm</b>
Valve	Exh	1995-00	10-1706	1.142 Head Dia.
	Exh	2001-02	10-2054	1.103 Head Dia.
	Int	1995-00	10-1739	1.229 Head Dia.
	Int	2001-03	10-2076	1.347 Head Dia.
Guide	Exh	1995-01	30-8668	1.500 OAL
	Int	1995-01	30-8666	1.700 OAL
Spring	Both	1995-00	32-2484	1.557 Free Length
	Both	2001-03	32-2494	1.668 Length
Keeper	Both	1995-03	34-07209	1 Round Groove
Lifter	Both	1995-00	36-2273	Hydraulic Bucket
	Both	2001-03	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2001-03	38-354-45	Viton. Top Hat.
	Both	1995-00	38-407-45	Viton. Top Hat.
<b>LINE 105</b>	<b>250 C.I. (4.1L) 12V OHC Pontiac</b>			<b>1968-69 L6 BORE - 3.88"/98.4mm</b>
Guide	Exh	1968-69	30-7271	2.375 OAL. Spiral 0.344 I.D. 0.564 O.D.
	Exh	1968-69	30-9259	w/ 4BC. 3.063 OAL. Spiral I.D. 30-7259 Plain I.D. Also Avail.
	Exh	1968-69	30-9459	w/ 1BC. 2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail.
	Int	1968-69	30-7272	2.250 OAL. Spiral 0.344 I.D. 0.564 O.D.
	Int	1968-69	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1968-69	30-9607H	2.250 OAL. Spiral 0.344 I.D. Hardened
	Int	1968-69	30-9946	2.250 OAL. 0.502 O.D. Spiral 0.343 I.D. 30-7946 Plain I.D. Also Avail.
Keeper	Both	1968-69	34-555	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1968-69	38-1065-70	Teflon And Rubber.
	Both	1968-69	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Expansion Plug Kit		1968-69	97-7B	Brass Kit
<b>LINE 106</b>	<b>250 C.I. (4.1L) Chev. 12V Vin CDLNPQS OHV</b>			<b>1966-84 L6 BORE - 3.68"/93.5mm</b>
Valve	Exh	1966-84	10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1966-84	10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1966-79	10-400	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 106</b>	<b>250 C.I. (4.1L) Chev. 12V Vin CDLNPQS OHV</b>			<b>1966-84 L6 BORE - 3.68"/93.5mm</b>
Valve	Int	1966-84	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1966-84	<b>10-1194</b>	1.720 Head Dia. LPG
	Int	1966-79	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1966-84	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth. Exc. LPG. Nickel -N Suffix Avail. for LPG.
	Exh	1966-79	<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int	1966-84	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1966-84	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1966-84	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1966-84	<b>32-685-D</b>	2.050 Free Length. w/ Damper
	Both	1966-77	<b>32-886</b>	1.900 Free Length
Keeper	Both	1966-84	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1966-84	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1966-79	<b>36-969</b>	Hydraulic
Rotator / Retainer	Both	1966-84	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1966-84	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1966-84	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1966-84	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1966-84	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1966-84	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1966-84	<b>40-2842</b>	Rocker Arm. 1.5 Stamped 3/8 Hole. Sprint
	Both	1966-84	<b>40-2844</b>	Rocker Arm. Stamped. Exc. Sprint
Rocker Kit	Both	1966-84	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1966-84	<b>41-2402</b>	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Rocker Component		1966-84	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1966-84	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Retainer	Both	1966-79	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1966-79	<b>74-6317</b>	9.682 Length
Expansion Plug Kit		1966-84	<b>97-7</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 107</b>	<b>252 C.I. (4.1L) Buick 12V Vin 4 OHV</b>			<b>1980-84 V6 BORE - 3.97"/101mm</b>
Valve	Exh	1980-84	<b>10-1387</b>	1.500 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1980-84	<b>10-1388</b>	1.710 Head Dia. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1980-84	<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int	1980-84	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both	1980-84	<b>30-7259</b>	3.063 OAL 0.3430 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1980-84	<b>30-9259</b>	3.063 OAL. Spiral I.D. 30-7259 Plain I.D. Also Avail.
Spring	Both	1980-82	<b>32-880-D</b>	2.030 Free Length. w/ Damper
Keeper	Both	1980-84	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1980-84	<b>36-969</b>	Hydraulic
Valve Stem Seal	Both	1980-84	<b>38-1054-70</b>	Teflon And Rubber
	Both	1980-84	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1980-84	<b>38-231-25</b>	Polyacrylic. 2-Ring. 38-231-15 Nitrile Matl. Also Avail.
	Both	1980-84	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1980-84	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 107</b>	<b>252 C.I. (4.1L) Buick 12V Vin 4 OHV</b>			<b>1980-84 V6</b>	<b>BORE - 3.97"/101mm</b>
Valve Stem Seal	Both	1980-84	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	
	Int	1980-83	<b>38-956-45</b>	Viton. Ring And Band.	
Rocker Component	Both	1980-84	<b>40-2813</b>	Rocker Arm, RH Stamped Steel	
	Both	1980-84	<b>40-2814</b>	Rocker Arm, LH Stamped Steel.	
Retainer	Both	1980-84	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem	
Expansion Plug Kit		1980-84	<b>97-119</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 108</b>	<b>250 C.I. (4.1L) Cadillac 16V Vin 7, 8 OHV</b>			<b>1982-88 V8</b>	<b>BORE - 3.465"/88mm</b>
Valve	Exh	1982-86	<b>10-1463</b>	1.299 Head Dia. Square Groove	
	Exh	1986-88	<b>10-1558</b>	1.299 Head Dia. Round Groove	
	Int	1982-86	<b>10-1464</b>	1.535 Head Dia. Square Groove	
	Int	1986-88	<b>10-1559</b>	1.535 Head Dia. Round Groove	
Valve Seat Insert	Exh	1982-88	<b>20-1375-1</b>	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.	
	Int	1982-88	<b>20-1625-11</b>	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth	
Guide	Both	1982-88	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.	
Keeper	Both	1982-86	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1987-88	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install	
	Both	1987-88	<b>36-2148G</b>	Lifter Guide, Dogbone Type	
	Both	1982-87	<b>36-969</b>	Hydraulic	
Valve Stem Seal	Both	1982-88	<b>38-823-45</b>	Viton. Metal Clad.	
	Both	1982-88	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
Expansion Plug Kit		1982-88	<b>97-133</b>	Alum. Eng. Steel Kit Only Avail.	
<b>LINE 109</b>	<b>256 C.I. (4.2L) DOHC 24V Vin S, X Vortec</b>			<b>2002-09 L6</b>	<b>BORE - 3.66"/93mm</b>
Valve	Exh	2006-09	<b>10-13046</b>	1.323 Head Dia. 0.2343 Stem	
	Exh	2002-05	<b>10-1999</b>	1.201 Head Dia. 0.2343 Stem	
	Int	2006-09	<b>10-13179</b>	1.525 Head Dia. 0.246 Stem	
	Int	2002-05	<b>10-1998</b>	1.457 Head Dia. 0.2347 Stem	
Guide	Both	2002-09	<b>30-8556</b>	1.735 OAL 0.436 O.D. 0.236 I.D.	
Spring	Both	2002-05	<b>32-04051</b>	1.770 Free Length	
	Both	2006-09	<b>32-5008</b>	1.760 Free Length. Conical	
Keeper	Both	2002-09	<b>34-5021</b>	3 Round Beads. 0.234 Stem	
Lifter	Both	2002-09	<b>36-7082</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2002-05	<b>38-354-45</b>	Viton. Top Hat.	
	Both	2006-09	<b>38-6995-45</b>	Viton. Top Hat.	
Retainer	Both	2002-05	<b>55-6735</b>	Chrome Moly. 0.735 O.D. 6mm Stem	
<b>LINE 110</b>	<b>259 C.I. (4.2L) 16V OHV 16V</b>			<b>1955-64 V8</b>	<b>BORE -</b>
Valve Seat Insert	Exh	1955-64	<b>20-1625-15</b>	1-3/8 I.D. 1-5/8 O.D. 17/64 Depth.	
Guide	Exh	1955-64	<b>30-1689</b>	2.625 OAL. 0.3445 I.D. 0.5645 O.D.	
	Int	1955-64	<b>30-1690</b>	3.000 OAL. 0.3435 I.D. 0.5645 O.D.	
Keeper	Both	1955-64	<b>34-555</b>	1 Square Groove. Heat Treated. OEM # 206880.	
Valve Stem Seal	Both	1955-64	<b>38-1065-70</b>	Teflon And Rubber.	
	Both	1955-64	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
<b>LINE 111</b>	<b>260 C.I. (4.3L) Olds Vin 8, F OHV 16V</b>			<b>1975-82 V8</b>	<b>BORE - 3.50"/88.9mm</b>
Valve	Exh	1975-82	<b>10-1322</b>	1.300 Head Dia. +3, 15 O/S May Be Avail.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 111</b>	<b>260 C.I. (4.3L) Olds Vin 8, F OHV 16V</b>			<b>1975-82 V8 BORE - 3.50"/88.9mm</b>
Valve	Int	1975-82	10-1323	1.522 Head Dia. +3, 15 O/S May Be Avail.
Valve Seat Insert	Exh	1975-82	20-1437-4	1-1/8 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1975-82	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both	1975-82	30-6873	2.125 OAL. 0.3450 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1975-82	30-9873	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1975-82	32-1016	1.960 Free Length
Keeper	Both	1975-82	34-555	1 Square Groove. Heat Treated
Lifter	Both	1975-82	36-951	Hydraulic
Valve Stem Seal	Both	1975-82	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1975-82	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1975-82	38-810-45	Viton. Ring And Band.
	Both	1975-82	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Exh	1975-82	38-922-35	Glass Filled Nylon. Umbrella.
Rocker Component	Int	1975-82	38-923-35	Glass Filled Nylon. Umbrella.
	Both	1975-79	40-2890	Rocker Arm. Stamped
Rocker Kit	Both	1980-82	40-2891	Rocker Arm. Stamped
	Both	1980-82	41-2554	2 40-2891, 2 42-1704 Pivots, 1 42-1718 Steel Bridge
Expansion Plug Kit		1975-82	97-58	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 112</b>	<b>260 C.I. (4.3L) Olds Diesel Vin T, V 12V OHV</b>			<b>1982-85 V6 BORE - 4.057"/103.05mm</b>
Valve	Exh	1982-84	10-1369	1.622 Head Dia.
	Int	1982-84	10-1370	1.875 Head Dia.
Valve Seat Insert	Exh	1982-85	20-1750-3	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth. Exc. Alum. Heads.
	Int	1982-85	20-1937-17	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth. Exc. Alum. Head.
	Exh	1982-85	21-1750-65	1.468 I.D. 1-3/4 O.D. 0.276 Depth. Alum. Heads
Guide	Int	1982-85	21-1937-53	1.674T I.D. 1-15/16 O.D. 0.276 Depth w/ Alum. Heads
	Both	1982-85	30-9708	2.500 OAL. w/ Cast Iron Heads
Spring	Both	1982-85	32-1195-D	2.010 Free Length. w/ Damper
Keeper	Both	1982-85	34-555	1 Square Groove. Heat Treated
Lifter	Both	1982-85	36-2104	Hydraulic Roller
Valve Stem Seal	Both	1982-85	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1982-85	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1982-85	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1982-85	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1982-85	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Rocker Component	Exh	1982-85	38-922-35	Glass Filled Nylon. Umbrella.
	Int	1982-85	38-923-35	Glass Filled Nylon. Umbrella.
Rocker Kit	Both	1982-85	40-2891	Rocker Arm. Stamped
Rocker Kit	Both	1982-85	41-2554	2 40-2891, 2 42-1704 Pivots, 1 42-1718 Steel Bridge
Expansion Plug Kit		1982-85	97-25	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 113</b>	<b>261, 265 C.I. (4.3L) Chev.</b>			<b>1954-62 BORE - 3.70"/95.25mm</b>
Valve	Exh	1954-62	10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1954-62	10-1206S	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1954-62	10-400	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 113</b>	<b>261, 265 C.I. (4.3L) Chev.</b>		<b>1954-62</b>	<b>BORE - 3.70"/95.25mm</b>
<b>Valve</b>	Int	1955-57	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
	Int	1954-62	<b>10-308</b>	1.875 Head Dia. +15 O/S Stem May Be Avail.
	Int	1955-57	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
<b>Valve Seat Insert</b>	Exh	1954-62	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1955-57	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Int	1954-62	<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth.
<b>Guide</b>	Exh	1954-62	<b>30-1527</b>	2.438 OAL
	Exh	1955-57	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1954-62	<b>30-1732</b>	3.344 OAL
	Int	1955-57	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
<b>Spring</b>	Both	1954-62	<b>32-558</b>	2.250 Free Length
	Both	1955-57	<b>32-575</b>	Exc. P.G. w/ 2-4BBCarbs. 2.030 Free Length
<b>Keeper</b>	Both	1954-62	<b>34-555</b>	1 Groove. Heat Treated
<b>Lifter</b>	Both	1955-62	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
<b>Rotator / Retainer</b>	Both	1955-57	<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both	1954-62	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1954-62	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1954-62	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1954-62	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1954-62	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
<b>Rocker Component</b>	Both	1955-57	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
	Both	1955-57	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
	Both	1955-57	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
	Both	1955-57	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1955-57	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1955-57	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1955-57	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1955-57	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
	Both	1955-57	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
<b>Rocker Kit</b>	Both	1954-62	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1955-57	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1955-57	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1955-57	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1955-57	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1955-57	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
<b>Rocker Component</b>		1955-57	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1955-57	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1955-57	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
<b>Retainer</b>	Both	1955-57	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
<b>Push Rod</b>		1955-57	<b>74-6034</b>	7.798 Length
		1955-57	<b>74-6385</b>	5/16" Dia. x 7.794"
<b>Expansion Plug Kit</b>		1955-57	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1954-62	<b>97-6</b>	Steel Kit. Brass Kit Avail. In Suffix B

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 114</b>	<b>262 C.I. (4.3L) Carb. Chev. Vin G OHV 16V</b>		<b>1975-76 V8</b>	<b>BORE - 3.67"/93.24mm</b>
<b>Valve</b>	Exh	1975-76	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1975-76	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1975-76	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1975-76	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1975-76	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
<b>Valve Seat Insert</b>	Exh	1975-76	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1975-76	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
<b>Guide</b>	Both	1975-76	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
<b>Spring</b>		1975-76	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1975-76	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Exh	1975-76	<b>32-1038-D</b>	1.928 Free Length. W/ Damper
	Int	1975-76	<b>32-880-D</b>	2.030 Free Length. w/ Damper
<b>Keeper</b>	Both	1975-76	<b>34-555</b>	1 Square Groove. Heat Treated.
<b>Lifter</b>	Both	1975-76	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
<b>Rotator / Retainer</b>	Both	1975-76	<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both	1975-76	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1975-76	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1975-76	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1975-76	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1975-76	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1975-76	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1975-76	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
<b>Rocker Component</b>	Both	1975-76	<b>40-1807</b>	Rocker Arm. Cast. OEM # F0TZ6564A
	Both	1975-76	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1975-76	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1975-76	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1975-76	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1975-76	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
	Both	1975-76	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
<b>Rocker Kit</b>	Both	1975-76	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1975-76	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1975-76	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1975-76	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1975-76	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1975-76	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1975-76	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
<b>Rocker Component</b>		1975-76	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1975-76	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1975-76	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
<b>Retainer</b>	Both	1975-76	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
<b>Push Rod</b>		1975-76	<b>74-6034</b>	7.798 Length
		1975-76	<b>74-6385</b>	5/16" Dia. x 7.794"
<b>Expansion Plug Kit</b>		1975-76	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 115</b>	<b>262 C.I. (4.3L) OHV 12V Vin B, N, X, W, Z</b>			<b>1985-14 V6 BORE - 4.00"/101.6mm</b>
<b>Valve</b>	Exh	1985-97	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1990-97	<b>10-1294</b>	1.500 Head Dia. 0.372 Stem. No Stellite. Chrome Plated. +3, 15, 30 O/S Stem May Be Avail.
	Exh	1990-97	<b>10-1294S</b>	1.500 Head Dia. 0.372 Stem. Stellite Faced & Chrome Plated. 10-1294 w/o Stellite Also Avail.
	Exh	1996-14	<b>10-1807</b>	1.500 Head Dia. 4.920 OAL. 1 Groove.
	Exh	1996-14	<b>10-1807S</b>	1.500 Head Dia. Stellite. 4.920 OAL. LPG
	Int	1985-97	<b>10-1195</b>	1.940 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
	Int	1996-14	<b>10-1931</b>	1.940 Head Dia.
<b>Valve Seat Insert</b>	Exh	1985-14	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix
	Int	1985-14	<b>20-2000-36</b>	1-3/4 I.D. 2.000 O.D. 3/16 Depth. w/ 1.940 Valve Head Dia.
<b>Guide</b>	Exh	1985-14	<b>30-3016</b>	2.210 OAL. 0.3420 I.D. 0.502 O.D. 0.552 Boss O.D. Replaces Boss of Integrated Guide.
	Exh	1985-14	<b>30-8407</b>	2.220 OAL. Replaceable Exh. Guide - Caution When Removing Stepped O.D. The Bottom Of The Guide Is The 0.620" End. Drive Out Toward Valve Seat.
	Exh	1985-14	<b>30-9946</b>	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.
	Int	1985-14	<b>30-3015</b>	2.120 OAL. 0.3420 I.D. 0.502 O.D. 0.552 Boss O.D. Replaces Boss of Integrated Guide.
<b>Spring</b>	Int	1985-14	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
	Both	1992-95	<b>32-1038-D</b>	1.910 Free Length. w/ Damper
	Both	1995-14	<b>32-1680</b>	2.059 Free Length
	Both	1985-95	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1985-95	<b>32-880-D</b>	2.030 Free Length. w/ Damper
	Both	1985-95	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Both	1985-14	<b>34-555</b>	1 Square Groove. Heat Treated.
<b>Lifter</b>	Both	1987-14	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	1987-14	<b>36-2148G</b>	Lifter Guide, Dogbone Type
<b>Valve Stem Seal</b>	Both	1985-86	<b>38-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1985-02	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1985-02	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1985-95	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1985-89	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1996-14	<b>38-371-45</b>	Viton. Metal Clad. 11/32 Stem
	Both	1985-95	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1996-95	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1985-95	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1985-95	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
<b>Rocker Component</b>	Both	1985-13	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1985-13	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1985-13	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1985-93	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1985-14	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
<b>Rocker Kit</b>	Both	1992-13	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1985-13	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1985-14	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 115</b>	<b>262 C.I. (4.3L) OHV 12V Vin B, N, X, W, Z</b>			<b>1985-14 V6 BORE - 4.00"/101.6mm</b>
Rocker Kit	Both	1985-93	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1985-13	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component		1985-13	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1985-13	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
	Both	1991-13	<b>42-3920</b>	Stud, 7/16-14 x 3/8-24 No Hex
	Both	1991-13	<b>42-4920</b>	Stud, 7/16-14 x 3/8-24 Hex
Retainer	Both	1985-93	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
	Both	1995-14	<b>55-6906</b>	Chrome Moly. 1.130 O.D. 11/32 Stem. Use w/ 32-1680
Push Rod		1985-86	<b>74-6034</b>	7.798 Length
		1987-14	<b>74-6373</b>	7.195 Length
		1985-96	<b>74-6385</b>	5/16" Dia. x 7.794"
		1987-03	<b>74-6615</b>	7.192 Length. '87-03.
Expansion Plug Kit		1985-85	<b>97-87</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1986-14	<b>97-99</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1992-14	<b>97-99-2</b>	Steel Kit. Brass Kit Avail. In Suffix B. For Balance Shaft Engines Only.
<b>LINE 116</b>	<b>262 C.I. (4.3L) OHV 12V Vin H</b>			<b>2014-16 V6 BORE - 99.6 / 3.92"</b>
Keeper	Both	2014-15	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
<b>LINE 117</b>	<b>265 C.I. (4.3L) Pontiac 16V Vin S OHV</b>			<b>1980-81 V8 BORE - 3.75"/95.2mm</b>
Valve Seat Insert	Exh	1980-81	<b>20-1437-2</b>	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1980-81	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both	1980-81	<b>30-9523</b>	3.063 OAL. Spiral I.D. 30-6523 Plain I.D. Also Avail.
Spring	Both	1980-81	<b>32-685-D</b>	2.050 Free Length. w/ Damper
Keeper	Both	1980-81	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1980-81	<b>36-969</b>	Hydraulic
Valve Stem Seal	Both	1980-81	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1980-81	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1980-81	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1980-81	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1980-81	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Expansion Plug Kit		1980-81	<b>97-64</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 118</b>	<b>265 C.I. (4.3L) Chev. Hi-Perf. Vin W 16V OHV</b>			<b>1994-96 V8 BORE - 3.75"/95.2mm</b>
Valve	Exh	1994-96	<b>10-1807</b>	1.500 Head Dia. 4.920 OAL. 1 Groove.
	Exh	1994-96	<b>10-1807S</b>	1.500 Head Dia. Stellite. 4.920 OAL
	Int	1994-96	<b>10-1806</b>	1.840 Head Dia. 4.881 OAL
Guide	Both	1994-96	<b>30-9946</b>	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.
Spring	Both	1994-96	<b>32-1680</b>	2.059 Free Length
Keeper	Exh	1994-96	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1994-96	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	1994-96	<b>36-2148G</b>	Lifter Guide, Dogbone Type
Valve Stem Seal	Both	1994-96	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1994-96	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1994-96	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1994-96	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Rocker Component	Both	1994-96	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped



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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 118</b>	<b>265 C.I. (4.3L) Chev. Hi-Perf. Vin W 16V OHV</b>			<b>1994-96 V8 BORE - 3.75"/95.2mm</b>	
Rocker Kit	Both	1994-96	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud	
Rocker Component		1994-96	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In	
		1994-96	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Retainer	Both	1994-96	<b>55-6906</b>	Chrome Moly. 1.130 O.D. 11/32 Stem. Use w/ 32-1680	
Push Rod		1994-96	<b>74-6373</b>	7.195 Length	
Expansion Plug Kit		1994-96	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 119</b>	<b>267 C.I. (4.4L) Chev. Vin J OHV 16V</b>			<b>1979-82 V8 BORE - 3.50"/88.9mm</b>	
Valve	Exh	1979-82	<b>10-1371</b>	1.380 Head Dia. +3, +15 O/S Stem May Be Avail.	
	Int	1979-82	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
Valve Seat Insert	Exh	1979-82	<b>20-1437-2</b>	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.	
	Int	1979-82	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.	
Guide	Exh	1979-82	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
	Int	1979-82	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.	
Spring	Both	1981-82	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper	
	Both	1981-82	<b>32-880-D</b>	2.030 Free Length. w/ Damper	
	Both	1979-82	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.	
Keeper	Both	1979-82	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1979-82	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
Rotator / Retainer	Both	1979-82	<b>37-4003</b>	Rotator. OEM # 14042575	
Valve Stem Seal	Both	1979-82	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562	
	Both	1979-82	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1979-82	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1979-82	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.	
	Both	1979-82	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1979-82	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
	Rocker Component	Both	1979-82	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
		Both	1979-82	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
Both		1979-82	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole	
Both		1979-82	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped	
Both		1979-82	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot	
Both		1979-82	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot	
Both		1979-82	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole	
Both		1979-82	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole	
Rocker Kit	Both	1979-82	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud	
	Both	1979-82	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut	
	Both	1979-82	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut	
	Both	1979-82	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Both	1979-82	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Both	1979-82	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Both	1979-82	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Rocker Component		1979-82	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1979-82	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 119</b>	<b>267 C.I. (4.4L) Chev. Vin J OHV 16V</b>		<b>1979-82 V8</b>	<b>BORE - 3.50"/88.9mm</b>
Rocker Component		1979-82	42-2941	Rocker Stud. 7/16-14x7/16-20 x2.560
Retainer	Both	1979-82	55-6105	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1979-82	74-6034	7.798 Length
		1979-82	74-6385	5/16" Dia. x 7.794"
Expansion Plug Kit		1979-82	97-100	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 120</b>	<b>267 C.I. (4.4L) DOHC 32V Vin D</b>		<b>2006-09 V8</b>	
Valve	Exh	2006-09	10-2054	1.103 Head Dia.
	Int	2006-09	10-2053	1.426 Head Dia.
Keeper	Both	2006-09	34-07209	1 Round Groove
Lifter	Both	2006-09	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2006-09	38-354-45	Viton. Top Hat.
<b>LINE 121</b>	<b>270 C.I. (4.4L) 12V</b>		<b>1941-63 V6</b>	<b>BORE - 3.781"/96.0mm</b>
Guide	Both	1941-53	30-1476	2.188 OAL. 0.5655 O.D.
	Both	1954-63	30-1758	2.188 OAL. 0.5650 O.D.
Spring	Both	1956-62	32-558	2.250 Free Length
Keeper	Both	1956-62	34-165	Tapered Groove. Heat Treated. Use w/ Rotatype Valve
	Both	1956-62	34-555	1 Square Groove. Heat Treated. Use w/o Rotatype Valve
Valve Stem Seal	Both	1956-63	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1956-63	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
<b>LINE 122</b>	<b>273 C.I. (4.5L) Cadillac Vin 3, 5, 8 OHV 16V</b>		<b>1988-92 V8</b>	<b>BORE - 3.62"/92mm</b>
Valve	Exh	1988-89	10-1558	1.299 Head Dia. Round Groove
	Exh	1990-92	10-1593	1.496 Head Dia. Round Groove
	Int	1988-89	10-1559	1.535 Head Dia. Round Groove
	Int	1990-92	10-1594	1.772 Head Dia. Round Groove
Valve Seat Insert	Exh	1988-89	20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.
	Exh	1990-92	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1988-89	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1990-92	20-1812-12	1-5/8 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both	1988-92	30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Keeper	Both	1988-92	34-5030	1 Round Bead
Lifter	Both	1988-92	36-2148	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	1988-92	36-2148G	Lifter Guide, Dogbone Type
Valve Stem Seal	Both	1988-92	38-823-45	Viton. Metal Clad.
Expansion Plug Kit		1988-92	97-119	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 123</b>	<b>281 C.I. (4.6L) DOHC 32V Northstar Vin A, Y, 9</b>		<b>1993-11 V8</b>	<b>BORE - 3.66"/93.0mm</b>
Valve	Exh	1993-99	10-1706	1.142 Head Dia.
	Exh	2000-11	10-2054	1.103 Head Dia.
	Int	1993-99	10-1707	1.308 Head Dia.
	Int	2000-11	10-2053	1.426 Head Dia.
Valve Seat Insert	Exh	1993-99	21-1312-67	1.042 I.D. 1-5/16 O.D. 0.238 Depth. Also Avail, In Nickel Matl. (-N)
	Int	1993-99	21-1437-74	1.162 I.D. 1-7/16 O.D. 0.230 Depth.
Guide	Exh	1993-99	30-8668	1.500 OAL
	Int	1993-99	30-8666	1.700 OAL
Spring	Both	1993-99	32-2484	1.557 Free Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 123</b>	<b>281 C.I. (4.6L) DOHC 32V Northstar Vin A, Y, 9</b>			<b>1993-11 V8 BORE - 3.66"/93.0mm</b>
Spring	Both	2000-03	<b>32-2494</b>	1.668 Length
Keeper	Both	1993-11	<b>34-07209</b>	1 Round Groove
Lifter	Both	1993-99	<b>36-2273</b>	Hydraulic Bucket
	Both	2000-11	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2000-11	<b>38-354-45</b>	Viton. Top Hat.
	Both	1993-99	<b>38-407-45</b>	Viton. Top Hat.
<b>LINE 124</b>	<b>283 C.I. (4.6L) Chev. 16V OHV</b>			<b>1955-67 V8 BORE - 3.875"/98.4mm</b>
Valve	Exh	1955-67	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1955-67	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1955-67	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1955-67	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Int	1955-67	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1955-67	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int	1955-67	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1955-67	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1955-67	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1955-67	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1957-62	<b>32-575</b>	2.030 Free Length. w/2-4 BC
	Both	1957-67	<b>32-685-D</b>	2.050 Free Length. w/ Damper
	Both	1967-67	<b>32-880-D</b>	1.222/1.238 O.D. 2.030 Free Length
	Both	1955-67	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both	1955-67	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1955-67	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1957-67	<b>36-992</b>	Mechanical. Hi-Perf.
Rotator / Retainer	Both	1957-67	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1955-67	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1955-67	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1955-67	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1955-67	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1955-67	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1955-67	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Rocker Component	Both	1955-67	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
	Both	1955-67	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
	Both	1955-67	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
	Both	1955-67	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1955-67	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1955-67	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1955-67	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1955-67	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
	Both	1955-67	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both	1955-67	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1957-67	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1957-67	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 124</b>	<b>283 C.I. (4.6L) Chev. 16V OHV</b>		<b>1955-67 V8</b>	<b>BORE - 3.875"/98.4mm</b>
Rocker Kit	Both	1957-67	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1957-67	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1957-67	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1957-67	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component		1957-67	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1957-67	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1957-67	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
Retainer	Both	1955-67	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1957-67	<b>74-6034</b>	7.798 Length
		1955-67	<b>74-6385</b>	5/16" Dia. x 7.794"
Expansion Plug Kit		1955-67	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 125</b>	<b>287 C.I. (4.7L) 16V</b>		<b>1955-55 V8</b>	<b>BORE - 3.75" / 95mm</b>
Guide	Int	1955-55	<b>30-9612</b>	2.875 OAL. Spiral I.D. 30-5612 Plain I.D. Also Avail.
Spring	Both	1955-55	<b>32-576</b>	Outer. 1.98 Free Length
	Both	1955-55	<b>32-577</b>	Inner. 1.760 Free Length
Keeper	Both	1955-55	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1955-55	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1955-55	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Push Rod	Both	1955-55	<b>74-6105</b>	9.136 Length
<b>LINE 126</b>	<b>289 C.I. (4.7L) 16V</b>		<b>1956-59 V8</b>	<b>BORE -</b>
Valve Seat Insert	Exh	1956-59	<b>20-1625-15</b>	1-3/8 I.D. 1-5/8 O.D. 17/64 Depth.
Guide	Exh	1956-59	<b>30-1689</b>	2.625 OAL. 0.3445 I.D. 0.5645 O.D.
	Int	1956-59	<b>30-1690</b>	3.000 OAL. 0.3435 I.D. 0.5645 O.D.
Keeper	Both	1956-59	<b>34-555</b>	1 Square Groove. Heat Treated. OEM # 206880.
Valve Stem Seal	Both	1956-59	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1956-59	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
<b>LINE 127</b>	<b>292 C.I. (4.8L) Chev. 12V Vin S, T</b>		<b>1963-89 L6</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh	1963-88	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1985-89	<b>10-1646S</b>	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face. LPG
	Int	1971-89	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail. Exc. LPG
	Int	1973-83	<b>10-1194</b>	1.720 Head Dia. LPG
	Int	1963-70	<b>10-399</b>	1.720 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1963-89	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Exc. LPG. +5,10, 15, 30 O/S Avail.
	Exh	1963-89	<b>20-1562-1N</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. LPG, Non-Magnetic Nickel
	Int	1963-89	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1963-89	<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 30-6107 Plain I.D. Also Avail.
	Exh	1963-89	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1963-89	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1963-89	<b>32-685-D</b>	2.050 Free Length. w/ Damper
Keeper	Both	1963-89	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1963-84	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1985-89	<b>36-969</b>	Hydraulic

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 127</b>	<b>292 C.I. (4.8L) Chev. 12V Vin S, T</b>			<b>1963-89 L6 BORE - 3.875"/98.4mm</b>
Lifter	Both	1963-73	<b>36-992</b>	Mechanical High Performance
Rotator / Retainer	Both	1963-89	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1963-89	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1963-89	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1963-89	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1963-89	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1963-89	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1963-89	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Rocker Component	Both	1963-89	<b>40-2844</b>
Rocker Kit	Both	1963-89	<b>41-2402</b>	1 40-2844, 1 42-1783 Smooth Ball, 1 42-1786 3/8 Nut
Rocker Component		1963-89	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1963-89	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Retainer	Both	1963-89	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Expansion Plug Kit		1963-89	<b>97-7</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 128</b>	<b>4.8L SOHC 16V Diesel 4HE1 (Isuzu) Turbo</b>			<b>2000-04 L4 BORE - 110.6mm/4.33"</b>
Valve	Exh	1999-	<b>10-2238</b>	1.654 Head Dia. OEM # 8943954620
	Int	1999-	<b>10-2237</b>	1.969 Head Dia. OEM # 8943951131
	Int	1999-	<b>10-2239</b>	1.830 Head Dia. OEM # 8970338641
Valve Seat Insert	Exh		<b>22-1697-1</b>	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720
	Int		<b>22-1894-1</b>	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620
	Int		<b>22-2013-1</b>	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600
Guide	Both	1999-	<b>30-3054</b>	0.3547 I.D. 2.365 OAL OEM 8943965980
Valve Stem Seal	Both	1999-	<b>38-6115-55</b>	Viton. Top Hat. OEM # 8943966092
<b>LINE 129</b>	<b>294 C.I. (4.8L) OHV 16V Vin A,C,V Vortec</b>			<b>1999-15 V8 BORE: 3.78"/96.02mm</b>
Valve	Exh	1999-15	<b>10-1935</b>	1.550 Head Dia.
	Exh	1999-15	<b>10-1935S</b>	1.550 Head Dia Stellite Seat Face LPG
	Int	2007-15	<b>10-13244</b>	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. SG. Nitrided
	Int	1999-09	<b>10-1934</b>	1.890 Head Dia.
	Int	1999-09	<b>10-1934S</b>	1.890 Head Dia. Stellite Seat Face LPG
	Int	2009-09	<b>10-2267</b>	2.000 Head Dia. 4.869 OAL. 0.314 Stem. LPG
	Valve Seat Insert	Exh	1999-15	<b>21-1625-64</b>
Exh		1999-15	<b>21-1625-64N</b>	1.335T I.D. 1-5/8 O.D. 0.420 Depth. LPG
Int		1999-09	<b>21-2062-50</b>	1.750 I.D. 2-1/16 O.D. 0.420 Depth
Int		2007-15	<b>21-2062-51</b>	1.750 I.D. 2-1/16 O.D. 0.390 Depth
Guide	Both	1999-15	<b>30-3053</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D.
	Both	1999-15	<b>30-3053H</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened
Spring	Both	2005-15	<b>32-04046</b>	2.126 Free Length. Conical
	Both	1999-04	<b>32-2500</b>	2.080 Free Length. Conical
Keeper	Both	1999-15	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
Lifter	Both	1999-15	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	1999-14	<b>36-2148G</b>	Lifter Guide, Dogbone Type
Valve Stem Seal	Both	1999-01	<b>38-805-55</b>	Viton. Metal Clad.
	Exh	2001-15	<b>38-900-45</b>	Viton. Top Hat
	Int	2001-15	<b>38-901-45</b>	Viton. Top Hat

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 129</b>	<b>294 C.I. (4.8L) OHV 16V Vin A,C,V Vortec</b>			<b>1999-15 V8</b>	<b>BORE: 3.78"/96.02mm</b>
Push Rod	Both	1999-15	74-6614	7.397 Length	
<b>LINE 130</b>	<b>300 C.I. (4.9L) Buick</b>			<b>1964-67 V8</b>	<b>BORE - 3.70"/95.2mm</b>
Valve	Exh	1964-67	10-976	1.375 Head Dia.	
Valve Seat Insert	Exh	1964-67	20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.	
	Int	1964-67	20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.	
Guide	Both	1964-64	30-1928	2.531 OAL	
	Exh	1965-67	30-9460	2.500 OAL. Spiral I.D. 30-7460 Plain I.D. Also Avail.	
	Int	1965-67	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.	
Spring	Both	1964-67	32-804	2.000 Free Length.	
Keeper	Exh	1964-67	34-219	Heat Treated	
Valve Stem Seal	Both	1964-67	38-731-25	Polyacrylic. 2-Ring. 38-731-15 Nitrile Matl. Also Avail.	
<b>LINE 131</b>	<b>300 C.I. (4.9L) Vin B Cadillac OHV 16V</b>			<b>1991-95 V8</b>	<b>BORE - 3.62"/92mm</b>
Valve	Exh	1991-95	10-1593	1.496 Head Dia.	
	Int	1991-95	10-1594	1.772 Head Dia.	
Valve Seat Insert	Exh	1991-95	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.	
	Int	1991-95	20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.	
Guide	Both	1991-95	30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.	
Keeper	Both	1991-95	34-5030	1 Round Bead	
Lifter	Both	1991-95	36-2148	Hydraulic Roller. Rotate Oil Hole Up To Install	
	Both	1991-95	36-2148G	Lifter Guide, Dogbone Type	
Valve Stem Seal	Both	1991-95	38-823-45	Viton. Metal Clad.	
Expansion Plug Kit		1991-95	97-119	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 132</b>	<b>301 C.I. (4.9L) Pontiac Vin W, Y &amp; T (Turbo) OHV 16V</b>			<b>1977-81 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1977-81	10-1361	1.500 Head Dia.	
	Int	1977-81	10-1362	1.720 Head Dia. +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1977-81	20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.	
	Int	1977-81	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth	
Guide	Both	1977-81	30-6523	3.063 OAL 0.3440 I.D. 0.5020 O.D. Plain I.D. Conversion Guide	
	Both	1977-81	30-9523	3.063 OAL. Spiral I.D. 30-6523 Plain I.D. Also Avail.	
Spring	Both	1977-81	32-685-D	2.050 Free Length. w/ Damper	
Keeper	Both	1977-81	34-555	1 Square Groove. Heat Treated.	
Lifter	Both	1977-81	36-969	Hydraulic	
Valve Stem Seal	Both	1977-81	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1977-81	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Both	1977-81	38-938-45	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
Expansion Plug Kit		1977-81	97-64	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 133</b>	<b>302 C.I. (5.0L) 12V</b>			<b>1952-59 V6</b>	<b>BORE - 4.00"/101.6mm</b>
Guide	Both	1952-59	30-1758	2.188 OAL. 0.5650 O.D.	
<b>LINE 134</b>	<b>302 C.I. (5.0L) Chev. 16V</b>			<b>1967-69 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1967-69	10-919	1.600 Head Dia.	
	Int	1967-69	10-988	2.020 Head Dia.	
Valve Seat Insert	Exh	1967-69	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 134</b>	<b>302 C.I. (5.0L) Chev. 16V</b>		<b>1967-69 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve Seat Insert	Int	1967-69	<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth
Guide	Exh	1967-69	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1967-69	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1967-69	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1967-69	<b>32-880-D</b>	2.030 Free Length. w/ Damper
	Both	1967-69	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both	1967-69	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1967-69	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1967-69	<b>36-992</b>	Mechanical High Performance
Valve Stem Seal	Both	1967-69	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1967-69	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1967-69	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1967-69	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1967-69	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1967-69	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
Rocker Component	Both	1967-69	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Both	1967-69	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
	Both	1967-69	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
	Both	1967-69	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
	Both	1967-69	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1967-69	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1967-69	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1967-69	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1967-69	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
	Both	1967-69	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both	1967-69	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1967-69	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1967-69	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1967-69	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1967-69	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1967-69	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1967-69	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
Rocker Component		1967-69	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1967-69	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1967-69	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
Retainer	Both	1967-69	<b>55-6100</b>	Chrome Moly. 1.240 O.D. 11/32 Stem
Push Rod		1967-69	<b>74-6034</b>	7.798 Length
		1967-68	<b>74-6385</b>	5/16" Dia. x 7.794"
Expansion Plug Kit		1967-69	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 135</b>	<b>303 C.I. (5.0L) 16V</b>		<b>1950-53 V8</b>	<b>Bore - 3.75"/95.3mm</b>
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Keeper	Both	1950-53	<b>34-555</b>	1 Groove. Heat Treated.
Valve Stem Seal	Both	1950-53	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 136</b>	<b>305 C.I. (5.0L) Chev. 16V Vin 7,E,F,G,H,M,Q,S,U</b>	<b>1976-02</b>	<b>V8</b>	<b>BORE - 3.736"/94.89mm</b>
<b>Valve</b>	Exh	1976-95	<b>10-1192</b>	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1976-80	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1976-95	<b>10-1294</b>	1.500 Head Dia. 0.372 Stem. No Stellite. Chrome Plated. +3, 15, 30 O/S Stem May Be Avail.
	Exh	1976-95	<b>10-1294S</b>	1.500 Head Dia. 0.372 Stem. Stellite Faced & Chrome Plated. 10-1294 w/o Stellite Also Avail.
	Exh	1976-95	<b>10-1646S</b>	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face
	Exh	1996-02	<b>10-1807</b>	1.500 Head Dia. 4.920 OAL. 0.341 Stem. 1 Groove.
	Exh	1996-02	<b>10-1807S</b>	1.500 Head Dia. 4.920 OAL. 0.341 Stem. 1 Groove. Stellite Face
	Exh	1976-80	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1976-88	<b>10-1193</b>	1.720 Head Dia. 1976-78 All, 1979 2BC. +3, 15 O/S Stem Avail.
	Int	1979-93	<b>10-1393</b>	'79 4BC, 85-93: 1.840 Head Dia. +3, 15, 30 O/S Stem May Be Avail.
	Int	1996-02	<b>10-1806</b>	1.840 Head Dia. 4.881 OAL. 0.341 Stem. 1 Groove
<b>Valve Seat Insert</b>	Exh	1976-02	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix
	Int	1976-87	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.720 Valve Head Dia.
	Int	1976-02	<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth. w/ 1.840 Valve Head Dia.
<b>Guide</b>	Exh	1976-95	<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 30-6107 Plain I.D. Also Avail.
	Exh	1976-02	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1976-02	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
<b>Spring</b>	Both	1996-02	<b>32-1680</b>	2.059 Free Length
	Both	1976-95	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1976-95	<b>32-880-D</b>	2.030 Free Length Exc. 1976-77 Exh. w/ Internal Damper
	Both	1976-95	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Exh	1976-77	<b>32-1038-D</b>	1.910 Free Length. w/ Damper
<b>Keeper</b>	Both	1976-02	<b>34-555</b>	1 Square Groove. Heat Treated
<b>Lifter</b>	Both	1988-02	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	1988-02	<b>36-2148G</b>	Lifter Guide, Dogbone Type
	Both	1976-88	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
<b>Rotator / Retainer</b>	Both	1976-98	<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both	1976-02	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1976-02	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1976-93	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1976-93	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1997-02	<b>38-371-45</b>	Viton. Metal Clad. 11/32 Stem
	Both	1976-02	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1976-02	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1976-88	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
<b>Rocker Component</b>	Both	1976-02	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
	Both	1976-02	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
	Both	1976-02	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
	Both	1976-02	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1976-02	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1976-02	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1976-02	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1976-02	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 136</b>	<b>305 C.I. (5.0L) Chev. 16V Vin 7,E,F,G,H,M,Q,S,U</b>			<b>1976-02 V8 BORE - 3.736"/94.89mm</b>
Rocker Component	Both	1976-02	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
Rocker Kit	Both	1976-93	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1976-02	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1976-02	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1976-02	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1976-02	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1976-02	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1976-02	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Rocker Component		1976-02	<b>42-2920</b>
		1976-02	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1976-02	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
Retainer	Both	1985-93	<b>55-6100</b>	Chrome Moly. 1.240 O.D. 11/32 Stem
	Both	1976-01	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
	Both	1996-02	<b>55-6906</b>	Chrome Moly. 1.130 O.D. 11/32 Stem. Use w/ 32-1680
Push Rod		1976-88	<b>74-6034</b>	7.798 Length
		1987-93	<b>74-6373</b>	7.195 Length
		1976-02	<b>74-6385</b>	5/16" Dia. x 7.794"
		1976-02	<b>74-6615</b>	7.192 Length. '87-96, VIN K
Expansion Plug Kit		1976-93	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 137</b>	<b>305 C.I. (5.0L) GMC 12V Vin A, B, C, D, E</b>			<b>1960-69 V6 BORE - 3.74"/94.9mm</b>
Valve Seat Insert	Exh	1960-69	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1960-69	<b>20-2062-1</b>	1-13/16T I.D. 2-1/16 O.D. 1/4 Depth.
Guide	Exh	1960-69	<b>30-9259</b>	3.063 OAL. 0.3430 Spiral I.D. 30-7259 Plain I.D. Also Avail.
	Int	1960-69	<b>30-9612</b>	2.875 OAL. 0.3440 Spiral I.D. 30-5612 Plain I.D. Also Avail.
Spring	Both	1960-68	<b>32-735</b>	2.301 Length
Keeper	Both	1960-69	<b>34-555</b>	1 Square Groove. Heat Treated.
Valve Stem Seal	Both	1960-69	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1960-69	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Expansion Plug Kit		1960-69	<b>97-22</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 138</b>	<b>307 C.I. (5.0L) 16V Vin ABCDEFHMNP7</b>			<b>1968-73 V8 BORE - 3.875"/98.4mm</b>
Valve	Exh	1968-73	<b>10-1192</b>	1.500 Head Dia. Series 15, 25, 35, Sprint, 1971 Vandura 2nd Type., +3, +15 O/S Stem Avail.
	Exh	1968-73	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1968-73	<b>10-400</b>	1.500 Head Dia. All, 1971 Vandura 1st Type. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1968-73	<b>10-1193</b>	1.720 Head Dia. 1971 Vandura 2nd Type, 1972-73 Sprint, Series 25, 35 Exc. Suburban. +3, 15 O/S Stem Avail.
	Int	1973-73	<b>10-1195</b>	1.940 Head Dia. Series 15 Blazer, Jimmy, Series 25 Suburban. +3, +15 O/S Stem Avail.
	Int	1968-73	<b>10-399</b>	1.720 Head Dia. 1968-70 All, 1971 Vandura 1st Type, Sprint. +3, 15, 30 O/S Stem May Be Avail.
	Valve Seat Insert	Exh	1968-73	<b>20-1562-2</b>
Int		1968-73	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.720 Valve Head Dia.
Int		1968-73	<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth. w/ 1.940 Valve Head
Guide	Both	1968-73	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 138</b>	<b>307 C.I. (5.0L) 16V Vin ABCDEFHMNP7</b>			<b>1968-73 V8 BORE - 3.875"/98.4mm</b>	
Spring	Both	1968-73	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper	
	Both	1968-73	<b>32-880-D</b>	2.030 Free Length. w/ Damper	
	Both	1968-73	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.	
	Exh	1972-73	<b>32-1038-D</b>	1.910 Free Length. w/ Damper	
Keeper	Both	1968-73	<b>34-555</b>	1 Square Groove. Heat Treated.	
Lifter	Both	1968-73	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom	
Valve Stem Seal	Both	1968-73	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.	
	Both	1968-73	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1968-73	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1968-73	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.	
	Both	1968-73	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1968-73	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.	
	Both	1968-73	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	
	Rocker Component	Both	1968-73	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
		Both	1968-73	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
		Both	1968-73	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
Both		1968-73	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped	
Both		1968-73	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot	
Both		1968-73	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot	
Both		1968-73	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole	
Both		1968-73	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole	
Both		1968-73	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole	
Rocker Kit		Both	1968-73	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1968-73	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut	
	Both	1968-73	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut	
	Both	1968-73	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Both	1968-73	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Both	1968-73	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Both	1968-73	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball	
	Rocker Component		1968-73	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1968-73	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
		1968-73	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560	
Retainer	Both	1968-73	<b>55-6100</b>	Chrome Moly. 1.240 O.D. 11/32 Stem	
	Both	1968-73	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem	
Push Rod		1968-73	<b>74-6034</b>	7.798 Length	
		1968-73	<b>74-6385</b>	5/16" Dia. x 7.794"	
Expansion Plug Kit		1968-73	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B	

<b>LINE 139</b>	<b>307 C.I. (5.0L) OHV 16V Vin 9 (H.O.),Y</b>			<b>1980-90 V8 BORE - 3.80"/96.52mm</b>
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Valve	Exh	1980-90	<b>10-1354</b>	1.502 Head Dia. +3, +15 O/S Stem Avail. Exc. H.O.
	Int	1980-90	<b>10-1450</b>	1.750 Head Dia. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh	1980-90	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int	1980-90	<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth.
Guide	Both	1980-90	<b>30-9873</b>	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1980-90	<b>32-1016</b>	1.960 Free Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 139</b>	<b>307 C.I. (5.0L) OHV 16V Vin 9 (H.O.),Y</b>			<b>1980-90 V8</b>	<b>BORE - 3.80"/96.52mm</b>
Spring	Both	1985-87	<b>32-1195-D</b>	Vin 9 2.010 Free Length w/ Damper	
Keeper	Both	1980-90	<b>34-555</b>	1 Square Groove. Heat Treated.	
Lifter	Both	1986-90	<b>36-2104</b>	Hydraulic Roller	
	Both	1980-90	<b>36-951</b>	Hydraulic	
Valve Stem Seal	Both	1980-90	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562	
	Both	1980-90	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1980-90	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1980-90	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1980-90	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Both	1980-90	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	
	Exh	1980-90	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.	
	Int	1980-90	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.	
Rocker Component	Both	1980-90	<b>40-2891</b>	Rocker Arm. Stamped	
Rocker Kit	Both	1980-90	<b>41-2554</b>	2 40-2891, 2 42-1704 Pivots, 1 42-1718 Steel Bridge	
Expansion Plug Kit		1980-90	<b>97-25</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 140</b>	<b>316 C.I. (5.2L)</b>			<b>1956-56 V8</b>	<b>BORE - 3.9375"/</b>
Guide	Both	1956-56	<b>30-9106</b>	2.750 OAL. After S/N 336-35001. Spiral I.D. 30-6106 Plain I.D. Also Avail.	
Spring	Both	1956-56	<b>32-576</b>	Outer. 1.98 Free Length	
	Both	1956-56	<b>32-577</b>	Inner Exc. 1963. 1.760 Free Length	
Keeper	Both	1956-56	<b>34-555</b>	1 Square Groove. Heat Treated.	
Lifter	Both	1956-56	<b>36-951</b>	Hydraulic	
Valve Stem Seal	Both	1956-56	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
Push Rod	Both	1956-56	<b>74-6105</b>	9.136 Length	
<b>LINE 141</b>	<b>5.2L (317 C.I.) SOHC 16V 4HK1 Diesel (Isuzu)</b>			<b>2005-12 L4</b>	<b>BORE - 4.53"/115mm</b>
Valve	Exh	2005-12	<b>10-13122</b>	1.456 Head Dia. 0.312 Stem. OEM # 8972098763	
	Int	2005-12	<b>10-13121</b>	1.457 Head Dia. 0.313 Stem. OEM # 8943958822	
Guide	Both	2005-12	<b>30-3101</b>	2.245 OAL. 0.3150 I.D. 0.5526 O.D.	
Valve Stem Seal	Both	2005-12	<b>38-223-55</b>	Viton. Metal Clad.	
	Both	2005-12	<b>38-962-45</b>	Viton. Ring And Spring.	
<b>LINE 142</b>	<b>324 (5.3L), 371, 394 C.I.</b>			<b>1954-64 V8</b>	<b>BORE - 4.00"/101.2mm</b>
Valve Seat Insert	Exh	1960-64	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth.	
	Int	1960-64	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.	
Guide	Exh	1954-62	<b>30-1878</b>	2.375 OAL	
	Int	1954-62	<b>30-1821</b>	2.375 OAL	
	Int	1959-64	<b>30-1829</b>	4.375 OAL	
Keeper	Both	1954-64	<b>34-555</b>	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1959-64	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.	
	Both	1959-64	<b>38-915-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.	
<b>LINE 143</b>	<b>5.3L (325 C.I.) OHV 16V Vin 0137BCJMPTZ (Vortec)</b>			<b>1999-14 V8</b>	<b>BORE - 3.78"/96mm</b>
Valve	Exh	1999-14	<b>10-1935</b>	1.550 Head Dia. 4.915 OAL	
	Exh	1999-14	<b>10-1935S</b>	1.550 Head Dia. Stellite Seat Face LPG	
	Int	2005-14	<b>10-13244</b>	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. SG. Nitrided	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 143</b>	<b>5.3L (325 C.I.) OHV 16V Vin 0137BCJMPTZ (Vortec)</b>			<b>1999-14 V8</b>	<b>BORE - 3.78"/96mm</b>
Valve	Int	1999-09	10-1934	1.890 Head Dia.	
	Int	1999-09	10-1934S	1.890 Head Dia. Stellite Seat Face LPG	
	Int	2005-09	10-2267	2.000 Head Dia. 4.869 OAL. 0.314 Stem. LPG	
Valve Seat Insert	Exh	1999-14	21-1625-64	1.335T I.D. 1-5/8 O.D. 0.420 Depth	
	Exh	1999-14	21-1625-64N	1.335T I.D. 1-5/8 O.D. 0.420 Depth LPG	
	Int	1999-09	21-2062-50	1.750 I.D. 2-1/16 O.D. 0.420 Depth	
	Int	2005-14	21-2062-51	1.750T I.D. 2-1/16 O.D. 0.390 Depth	
Guide	Both	1999-14	30-3053	2.115 OAL. 0.3154 I.D. 0.500 O.D.	
	Both	1999-14	30-3053H	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened	
Spring	Both	2005-14	32-04046	2.126 Free Length. Conical	
	Both	1999-04	32-2500	2.080 Free Length. Conical	
Keeper	Both	1999-14	34-5005	0.314 Stem. Round Bead in Middle.	
Lifter	Both	1999-14	36-2148	Hydraulic Roller. 07 Exh. 2.600 OAL. Rotate Oil Hole Up To Install	
	Both	1999-14	36-2148G	Lifter Guide, Dogbone Type	
	Both	2005-13	36-2303	Hydraulic Roller. 3.785 OAL AFM "De-Ac". GM # 12639516	
	Both	2005-13	36-2303FG	Front Guide for AFM. Guide Only. 12571596	
	Both	2005-13	36-2303FLA	Front Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645724	
	Both	2005-13	36-2303RG	Rear Guide for AFM. Guide Only. 12571608	
	Both	2005-13	36-2303RLA	Rear Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645723	
Valve Stem Seal	Both	1999-01	38-805-55	Viton. Metal Clad.	
	Exh	2001-14	38-900-45	Viton. Top Hat	
	Int	2001-14	38-901-45	Viton. Top Hat	
Push Rod		1999-14	74-6614	7.397 Length	
<b>LINE 144</b>	<b>5.3L (325 C.I.) OHV 16V Vin C L83</b>			<b>2014-16 V8</b>	<b>BORE - 3.78"/96mm</b>
Keeper	Both	2014-15	34-5005	0.314 Stem. Round Bead in Middle.	
<b>LINE 145</b>	<b>326 C.I. (5.3L) 16V "Pontiac"</b>			<b>1963-67 V8</b>	<b>BORE - 3.719"/94.5mm</b>
Spring	Both	1963-67	32-576	Outer. 1.98 Free Length	
	Both	1963-67	32-577	Inner. 1.760 Free Length	
Keeper	Both	1963-67	34-555	1 Square Groove. Heat Treated	
Lifter	Both	1963-67	36-951	Hydraulic	
	Both	1963-67	36-992	Mechanical High Performance	
Valve Stem Seal	Both	1963-67	38-1065-70	Teflon And Rubber.	
	Both	1963-67	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
Expansion Plug Kit	Both	1963-67	97-26	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 146</b>	<b>327 C.I. (5.4L) Chev. 16V Vin E, HJ</b>			<b>1962-69 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1962-69	10-1192	1.500 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Exh	1962-69	10-1206S	1.500 Head Dia. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.	
	Exh	1962-69	10-400	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.	
	Exh	1965-69	10-919	1.600 Head Dia. Chrome Plated	
	Int	1962-69	10-1193	1.720 Head Dia. Chrome Plated. +3, 15 O/S Stem Avail.	
	Int	1962-65	10-399	1.720 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.	
	Int	1962-69	10-696	1.940 Head Dia. w/o Chrome. +3 & +15 & +30 O/S Stem May Be Avail.	
	Int	1965-69	10-988	2.020 Head Dia. Chrome Plated	
Valve Seat Insert	Exh	1962-69	20-1562-2	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 146</b>	<b>327 C.I. (5.4L) Chev. 16V Vin E, HJ</b>		<b>1962-69 V8</b>	<b>BORE - 4.00"/101.6mm</b>
<b>Valve Seat Insert</b>	Exh	1965-69	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.600 Valve Head.
	Int	1962-69	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Int	1962-64	<b>20-2000-7</b>	1-13/16 I.D. 2.000 O.D. 7/32 Depth. w/ 1.940 Valve Head Dia.
	Int	1965-69	<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth. w/ 2.020 Valve Head Dia.
<b>Guide</b>	Exh	1962-69	<b>30-9459</b>	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail. w/ HP Eng.
	Exh	1962-69	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1962-69	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
<b>Spring</b>	Both	1967-69	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1962-66	<b>32-685-D</b>	2.050 Free Length. w/ Damper
	Both	1967-69	<b>32-880-D</b>	2.030 Free Length. w/Damper
	Both	1967-69	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
<b>Keeper</b>	Both	1962-69	<b>34-555</b>	1 Square Groove. Heat Treated.
<b>Lifter</b>	Both	1962-69	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1962-69	<b>36-992</b>	Mechanical High Performance
<b>Rotator / Retainer</b>	Both	1962-69	<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both	1962-69	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1962-69	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1962-69	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1962-69	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1962-69	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1962-69	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1962-69	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1962-69	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Int	1962-65	<b>38-731-25</b>	Polyacrylic. 2-Ring. 38-731-15 Nitrile Matl. Also Avail.
<b>Rocker Component</b>	Both	1962-69	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1962-69	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1962-69	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1962-69	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1962-69	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
	Both	1962-69	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
<b>Rocker Kit</b>	Both	1962-69	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1962-69	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1962-69	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1962-69	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1962-69	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1962-69	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1962-69	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
<b>Rocker Component</b>		1962-69	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1962-69	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1962-69	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
<b>Retainer</b>	Both	1962-69	<b>55-6100</b>	Chrome Moly. 1.240 O.D. 11/32 Stem
	Both	1962-69	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
<b>Push Rod</b>		1962-69	<b>74-6034</b>	7.798 Length
		1962-69	<b>74-6385</b>	5/16" Dia. x 7.794"

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 146</b>	<b>327 C.I. (5.4L) Chev. 16V Vin E, HJ</b>		<b>1962-69 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Expansion Plug Kit		1962-69	97-100	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 147</b>	<b>330 C.I. (5.4L) Olds</b>		<b>1964-67 V8</b>	<b>BORE - 3.937"/100mm</b>
Valve	Exh	1964-67	10-970	1.562 Head Dia.
	Int	1964-67	10-969	1.875 Head Dia.
Valve Seat Insert	Exh	1964-67	20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1964-67	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Both	1964-67	30-9873	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1964-67	32-884-D	1964 w/ Stamped Steel Rocker Arms 1965-67 All 1.960 Free Length
Keeper	Both	1964-67	34-555	1 Square Groove. Heat Treated.
Lifter	Both	1964-67	36-951	Hydraulic
Valve Stem Seal	Both	1964-67	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1964-67	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1964-67	38-810-45	Viton. Ring And Band.
	Exh	1964-67	38-922-35	Glass Filled Nylon. Umbrella.
	Int	1964-67	38-923-35	Glass Filled Nylon. Umbrella.
Rocker Component	Both	1964-67	40-2890	Rocker Arm. Stamped
Expansion Plug Kit		1964-67	97-25	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 148</b>	<b>331, 365, 390 C.I. Cadillac</b>		<b>1949-63 V8</b>	<b>BORE - 3.812"/96.8mm</b>
Valve Seat Insert	Exh	1959-63	20-1625-4	1-5/16 I.D. 1-5/8 O.D. 7/32 Depth
	Int	1959-63	20-1937-1	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Both	1955-63	30-1745	2.266 OAL 0.5636 O.D. 0.3445 I.D.
Spring	Both	1956-63	32-619	2.250 Free Length
	Both	1949-56	32-685-D	2.050 Free Length. w/ Damper
Keeper	Both	1949-63	34-555	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1949-63	38-1065-70	Teflon And Rubber.
<b>LINE 149</b>	<b>336 C.I. (5.5L)</b>		<b>1958-59 V8</b>	<b>BORE - 3.875, 3.7812"</b>
Guide	Exh	1959-59	30-9106	2.750 OAL. After S/N 336-35001. Spiral I.D. 30-6106 Plain I.D. Also Avail.
	Exh	1958-59	30-9612	2.875 OAL. To S/N 336-35001. Spiral I.D. 30-5612 Plain I.D. Also Avail.
	Int	1959-59	30-9105	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
Spring	Both	1958-59	32-576	Outer. 1.98 Free Length
	Both	1958-59	32-577	Inner 1.203 O.D. 1.760 Free Length
Keeper	Both	1958-59	34-555	1 Square Groove. Heat Treated.
Push Rod	Both	1958-59	74-6105	9.136 Length
<b>LINE 150</b>	<b>340 C.I. (5.6L) Buick</b>		<b>1966-67 V8</b>	<b>BORE - 3.75"/95.2mm</b>
Valve	Exh	1966-67	10-976	1.375 Head Dia.
Valve Seat Insert	Exh	1966-67	20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1966-67	20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Exh	1966-67	30-7460	2.500 OAL 0.3430 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Exh	1966-67	30-9460	2.500 OAL. Spiral I.D. 30-7460 Plain I.D. Also Avail.
	Int	1966-67	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1966-67	32-804	2.000 Free Length.
Keeper	Exh	1966-67	34-219	Heat Treated

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 150</b>	<b>340 C.I. (5.6L) Buick</b>		<b>1966-67</b>	<b>V8 BORE - 3.75"/95.2mm</b>
Valve Stem Seal	Both	1966-67	<b>38-731-25</b>	Polyacrylic. 2-Ring. 38-731-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1966-67	<b>97-3</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 151</b>	<b>346 C.I. (5.7L) Cadillac</b>		<b>1946-48</b>	<b>V8 BORE - 3.50"/88.9mm</b>
Guide	Both	1946-48	<b>30-1411</b>	3.078 OAL. 0.689 O.D. 0.3440 I.D.
<b>LINE 152</b>	<b>347 C.I. (5.7L)</b>		<b>1957-57</b>	<b>V8 BORE - 3.9375</b>
Guide	Exh	1957-57	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Int	1957-57	<b>30-9106</b>	2.750 OAL. Spiral I.D. 30-6106 Plain I.D. Also Avail.
Spring	Both	1957-57	<b>32-576</b>	Outer. 1.98 Free Length
	Both	1957-57	<b>32-577</b>	Inner. 1.760 Free Length
Keeper	Both	1957-57	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1957-57	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1957-57	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1957-57	<b>38-4788-35</b>	Umbrella. Nylon/Viton. Requires Guide Machining
<b>LINE 153</b>	<b>348 C.I. (5.7L)</b>		<b>1958-65</b>	<b>V8 BORE - 4.125"/105mm</b>
Guide	Exh	1958-65	<b>30-9110</b>	2.625 OAL. Spiral I.D. 30-6110 Plain I.D. Also Avail.
	Int	1958-65	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Keeper	Both	1958-65	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1958-65	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1958-65	<b>36-992</b>	Mechanical High Performance
Valve Stem Seal	Both	1958-65	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1958-65	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
	Both	1958-65	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
	Both	1958-65	<b>42-3920</b>	Stud, 7/16-14 x 3/8-24 No Hex
	Both	1958-65	<b>42-4920</b>	Stud, 7/16-14 x 3/8-24 Hex
Push Rod	Both	1959-60	<b>74-6034</b>	7.798 Length
	Both	1958-65	<b>74-6105</b>	Exh '58. '61-65
<b>LINE 154</b>	<b>350 C.I. (5.7L) Chev. 16V Vin 5678GKLMPSW</b>		<b>1967-05</b>	<b>V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1969-93	<b>10-1192</b>	1.500 Head Dia. 4.928 OAL. Chrome Plated. +3, +15 O/S Stem Avail.
	Exh	1967-95	<b>10-1206S</b>	1.500 Head Dia. 0.342 Stem. 4.923 OAL. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1969-95	<b>10-1294</b>	1.500 Head Dia. 0.372 Stem. No Stellite. Chrome Plated. +3, 15, 30 O/S Stem May Be Avail.
	Exh	1969-95	<b>10-1294S</b>	1.500 Head Dia. 0.372 Stem. Stellite Faced & Chrome Plated. 10-1294 w/o Stellite Also Avail.
	Exh	1969-95	<b>10-1646S</b>	1.500 Head Dia. 0.372 Stem. Inconel Head, Stellite Face
	Exh	1994-02	<b>10-1807</b>	1.500 Head Dia. 4.920 OAL. 1 Groove.
	Exh	1994-02	<b>10-1807S</b>	1.500 Head Dia. 4.920 OAL. 1 Groove. Stellite Face
	Exh	1992-93	<b>10-1809</b>	1.500 Head Dia. 4.904 OAL. 1 Groove
	Exh	1997-04	<b>10-1935</b>	1.550 Head Dia. 0.314 Stem 1 Groove. LS1
	Exh	1967-70	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Exh	1969-77	<b>10-919</b>	1.600 Head Dia. Hi-Perf. Chrome Plated
	Int	1969-95	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
	Int	1969-95	<b>10-1194</b>	1.720 Head Dia. Chrome. 4.917 OAL. LPG
	Int	1967-95	<b>10-1195</b>	1.940 Head Dia. 4.880 OAL. Chrome Plated. +3, +15 O/S Stem Avail.
Int	1997-04	<b>10-13244</b>	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. SG. LS1. Nitrided	

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 154</b>	<b>350 C.I. (5.7L) Chev. 16V Vin 5678GKLMPSRW</b>			<b>1967-05 V8 BORE - 4.00"/101.6mm</b>
<b>Valve</b>	Int	1994-02	<b>10-1931</b>	1.940 Head Dia. 4.881 OAL. 0.341 Stem. Chrome Plated 1 Groove
	Int	1968-71	<b>10-696</b>	1.940 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1969-77	<b>10-988</b>	2.020 Head Dia. Hi-Perf. Chrome Plated
<b>Valve Seat Insert</b>	Exh	1967-82	<b>20-1500-4</b>	1-7/32T I.D. 1-1/2 O.D. 7/32 Depth, For Use On Heads w/ Thin Wall Sections
	Exh	1967-02	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix
	Exh	1967-82	<b>20-1562-36</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth, For Use On Heads w/ Thin Wall Sections
	Exh	1967-82	<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth. For Use On Heads w/ Thin Wall Sections
	Exh	1982-93	<b>20-1625-3</b>	1-5/16 I.D. 1-5/8 O.D. 1/4 Depth.
	Exh	1967-82	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.600 Valve Head.
	Int	1969-02	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Int	1996-02	<b>20-2000-36</b>	1-3/4 I.D. 2.000 O.D. 3/16 Depth. w/ 1.940 Valve Head Dia.
	Int	1967-02	<b>20-2000-7</b>	1-13/16 I.D. 2.000 O.D. 7/32 Depth. w/ 1.940 Valve Head Dia.
	Int	1967-82	<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth. w/ 2.020 Valve Head Dia.
	Exh	1997-04	<b>21-1625-64</b>	1.335T I.D. 1-5/8 O.D. 0.420 Depth
	Int	1997-04	<b>21-2062-51</b>	1.750 I.D. 2-1/16 O.D. 0.390 Depth
<b>Guide</b>	Both	1997-05	<b>30-3053</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D.
	Both	1997-05	<b>30-3053H</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened
	Both	1969-02	<b>30-8180</b>	2.275 OAL. 0.343 I.D. 0.558 O.D. Alum. Heads
	Both	1996-97	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Exh	1982-02	<b>30-7999</b>	2.200 OAL. w/ Replaceable Exh. Guide. Use Caution When Removing Stepped O.D.
	Exh	1969-95	<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 30-6107 Plain I.D. Also Avail.
	Exh	1967-02	<b>30-9946</b>	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.
	Int	1967-02	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
<b>Spring</b>	Both	1995-02	<b>32-1680</b>	2.059 Free Length. Vortec
	Both	1967-99	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1992-97	<b>32-2210</b>	2.016 Free Length. 1.300 O.D. LT1
	Both	1997-04	<b>32-2500</b>	2.080 Free Length. LS1
	Both	2002-05	<b>32-5017</b>	2.125 Free Length. Conical.
	Both	1967-95	<b>32-880-D</b>	2.030 Free Length Exc. 1973-80 Exh. w/ Damper
	Both	1967-95	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Exh	1973-95	<b>32-1038-D</b>	1.910 Free Length. w/ Damper
<b>Keeper</b>	Both	1997-05	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
	Both	1967-02	<b>34-555</b>	1 Square Groove. Heat Treated.
<b>Lifter</b>	Both	1987-05	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up to Install
	Both	1987-05	<b>36-2148G</b>	Lifter Guide, Dogbone Type
	Both	1967-95	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
<b>Rotator / Retainer</b>	Both	1967-95	<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both	1967-02	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1967-02	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1967-95	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1967-95	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1994-02	<b>38-371-45</b>	Viton. Metal Clad



COMPONENT	I/E/B	YEARS	PART No.	NOTES	
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<b>LINE 154</b>	<b>350 C.I. (5.7L) Chev. 16V Vin 5678GKLMPSW</b>			<b>1967-05 V8</b>	<b>BORE - 4.00"/101.6mm</b>
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<b>Valve Stem Seal</b>	Both	1967-02	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1967-02	<b>38-731-25</b>	Polyacrylic. 2-Ring. 38-731-15 Nitrile Matl. Also Avail.
	Both	2001-01	<b>38-805-55</b>	Viton. Metal Clad
	Both	1968-82	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1967-02	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Exh	2001-05	<b>38-901-45</b>	Viton. Top Hat
	Int	2001-05	<b>38-900-45</b>	Viton. Top Hat
<b>Rocker Component</b>	Both	1967-97	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
	Both	1967-97	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
	Both	1967-97	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
	Both	1967-02	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1967-97	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1967-97	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1967-97	<b>40-2840</b>	Rocker Arm, 1.5 Stamped Long Slot 3/8 Hole
	Both	1967-97	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
<b>Rocker Kit</b>	Both	1967-02	<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
	Both	1967-97	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1967-97	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1967-97	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1967-97	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1967-97	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1967-97	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
<b>Rocker Component</b>		1967-97	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1967-02	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1967-97	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
<b>Retainer</b>	Both	1992-98	<b>55-6100</b>	Chrome Moly. 1.240 O.D. 11/32 Stem
	Both	1997-04	<b>55-6103</b>	Chrome Moly. 1.030 O.D. 8mm Stem. Use w/ 32-2500. LS1
	Both	1967-95	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
	Both	1985-02	<b>55-6906</b>	Chrome Moly. 1.130 O.D. 11/32 Stem. Use w/ 32-1680
<b>Push Rod</b>		1967-93	<b>74-6034</b>	7.798 Length
		1987-97	<b>74-6373</b>	7.195 Length
		1967-97	<b>74-6385</b>	Use w/Hydraulic Flat Lifter (5/16 x 7.794)
		1997-05	<b>74-6614</b>	7.397 Length
		1966-02	<b>74-6615</b>	7.192 Length. '87-96, VIN K
<b>Expansion Plug Kit</b>		1967-04	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 155</b>	<b>350 C.I. (5.7L) Pontiac K,P OHV</b>			<b>1968-77 V8</b>	<b>BORE - 3.875"/98.4mm</b>
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<b>Valve</b>	Exh	1970-71	<b>10-1093</b>	1.660 Head Dia.
	Exh	1968-69	<b>10-1097</b>	1.770 Head Dia. 5.093 OAL, 4BC
	Exh	1972-72	<b>10-1160</b>	1.770 Head Dia. 4.970 OAL
	Exh	1973-77	<b>10-1245</b>	1.660 Head Dia.
	Int	1968-69	<b>10-1098</b>	2.110 Head Dia. 5.098 OAL. 4BC
	Int	1975-77	<b>10-1161</b>	2.110 Head Dia. 4.979 OAL
	Int	1970-74	<b>10-1296</b>	1.960 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 155</b>	<b>350 C.I. (5.7L) Pontiac K,P OHV</b>			<b>1968-77 V8 BORE - 3.875"/98.4mm</b>
<b>Valve Seat Insert</b>	Exh	1968-77	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.660 Valve Head Dia.
	Exh	1968-77	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. w/ 1.770 Valve Head Dia.
	Int	1968-77	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.960 Valve Head Dia.
<b>Guide</b>	Exh	1968-77	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Exh	1968-77	<b>30-9946</b>	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.
	Int	1968-77	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
<b>Spring</b>	Both	1968-77	<b>32-813</b>	Inner. 1.760 Free Length
	Both	1968-77	<b>32-814</b>	Outer. 1.940 Free Length
	Both	1968-68	<b>32-922</b>	Inner w/ Ram Air 1.995 Free Length
	Both	1968-68	<b>32-923</b>	Outer w/ Ram Air 1.980 Free Length
<b>Keeper</b>	Both	1968-77	<b>34-555</b>	1 Square Groove. Heat Treated.
<b>Lifter</b>	Both	1968-77	<b>36-951</b>	Hydraulic. Exc. '69-70 Ram Air
<b>Valve Stem Seal</b>	Both	1968-77	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1968-77	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1968-77	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1968-77	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1969-77	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1968-77	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
<b>Push Rod</b>		1968-77	<b>74-6105</b>	9.136 Length
		1977	<b>74-6385</b>	5/16" Dia. x 7.794"
<b>Expansion Plug Kit</b>		1968-77	<b>97-26</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 156</b>	<b>350 C.I. (5.7L) Olds 16V Vin B, R, 8 OHV</b>			<b>1968-80 V8 BORE - 4.057"/103.05mm</b>
<b>Valve</b>	Exh	1972-72	<b>10-1212</b>	1.622 Head Dia. 4.708 OAL
	Exh	1973-76	<b>10-1324</b>	1.622 Head Dia. 4.675 OAL. +3, +15 O/S Stem Avail.
	Exh	1977-80	<b>10-1354</b>	1.502 Head Dia. +3, +15 O/S Stem Avail.
	Exh	1968-71	<b>10-970</b>	1.562 Head Dia. w/o Outside Air Induction
	Exh	1968-71	<b>10-974</b>	1.624 Head Dia. w/ Outside Air Induction 4.695 OAL
	Int	1973-80	<b>10-1263</b>	1.875 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1968-71	<b>10-1457</b>	1.995 Head Dia. w/ Outside Air Induction.
	Int	1968-72	<b>10-969</b>	1.875 Head Dia. Exc. 1968-71 w/o Outside Air Induction
<b>Valve Seat Insert</b>	Exh	1977-80	<b>20-1562-2</b>	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth. w/1.502 Valve Head Dia.
	Exh	1968-71	<b>20-1687-17</b>	1-1/2 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.624 Valve Head Dia.
	Exh	1968-71	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.562 Valve Head Dia.
	Exh	1972-76	<b>20-1687-5</b>	1-3/8 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.622 Head Dia.
	Int	1968-80	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.875 Valve Head Dia.
	Int	1968-71	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth. w/ 1.995 Valve Head Dia.
<b>Guide</b>	Both	1968-80	<b>30-9873</b>	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
	Exh	1968-80	<b>30-9946</b>	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.
<b>Spring</b>	Both	1972-80	<b>32-1016</b>	1.960 Free Length. Exc. 1972 Exh. w/ Damper
	Both	1968-71	<b>32-884-D</b>	1.960 Free Length.
	Exh	1972-72	<b>32-1016-D</b>	1.960 Free Length. w/ Damper
<b>Keeper</b>	Exh	1968-80	<b>34-555</b>	1 Square Groove. Heat Treated
<b>Lifter</b>	Both	1968-80	<b>36-951</b>	Hydraulic
<b>Valve Stem Seal</b>	Both	1968-80	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1968-80	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 156</b>	<b>350 C.I. (5.7L) Olds 16V Vin B, R, 8 OHV</b>			<b>1968-80 V8 BORE - 4.057"/103.05mm</b>
Valve Stem Seal	Both	1968-80	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1968-80	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1968-80	<b>38-731-25</b>	Polyacrylic. 2-Ring. 38-731-15 Nitrile Matl. Also Avail.
	Both	1968-80	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Exh	1968-80	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.
	Int	1968-80	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.
Rocker Component	Both	1968-79	<b>40-2890</b>	Rocker Arm. Stamped
	Both	1980-80	<b>40-2891</b>	Rocker Arm. Stamped
Rocker Kit	Both	1980-80	<b>41-2554</b>	2 40-2891, 2 42-1704 Pivots, 1 42-1718 Steel Bridge
Push Rod		1968-80	<b>74-6317</b>	9.682 Length
Expansion Plug Kit		1968-80	<b>97-25</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 157</b>	<b>350 C.I. (5.7L) Buick H, J, X OHV</b>			<b>1968-81 V8 BORE - 3.80"/96.52mm</b>	
Valve	Exh	1968-74	<b>10-1188</b>	1.500 Head Dia. +15 O/S Stem May Be Avail.	
	Exh	1975-80	<b>10-1320</b>	1.550 Head Dia.	
	Int	1968-80	<b>10-1082</b>	1.875 Head Dia. +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1968-80	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.	
	Int	1968-80	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.	
Guide	Exh	1968-80	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.	
	Int	1968-80	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.	
Spring	Both	1968-80	<b>32-1001</b>	Exc. 1971-80 Exh. 2.130 Free length	
	Exh	1971-80	<b>32-1002-D</b>	1.985 Free Length. w/ Damper	
Keeper	Both	1968-80	<b>34-310</b>	0 Groove	
Lifter	Both	1970-80	<b>36-969</b>	Hydraulic	
Valve Stem Seal	Both	1968-81	<b>38-1036-70</b>	Teflon And Rubber.	
	Both	1968-80	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1968-80	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1968-81	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.	
	Both	1968-80	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Both	1968-81	<b>38-940-45</b>	Viton. 2-Ring.	
	Exh	1968-81	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.	
	Int	1968-81	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.	
	Rocker Component	Both	1968-81	<b>40-2813</b>	Rocker Arm, RH Stamped Steel
		Both	1968-81	<b>40-2814</b>	Rocker Arm, LH Stamped Steel
Expansion Plug Kit		1968-80	<b>97-3</b>	Steel Kit. Brass Kit Avail. In Suffix B	

<b>LINE 158</b>	<b>350 C.I. (5.7L) OHV 16V Olds Diesel Vin N,Z</b>			<b>1978-85 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1978-85	<b>10-1369</b>	1.622 Head Dia.
	Int	1978-85	<b>10-1370</b>	1.875 Head Dia.
Valve Seat Insert	Exh	1978-85	<b>20-1687-16</b>	1-7/16 I.D. 1-11/16 O.D. 3/16 Depth.
	Int	1978-85	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Both	1978-85	<b>30-7562</b>	2.375 OAL. w/ 0.5625 O.D.
	Both	1978-85	<b>30-9561</b>	2.375 OAL. Spiral I.D. w/ 0.502 O.D.
	Exh	1978-85	<b>30-9946</b>	2.250 OAL. Spiral I.D. 30-7946 Plain I.D. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 158</b>	<b>350 C.I. (5.7L) OHV 16V Olds Diesel Vin N,Z</b>			<b>1978-85 V8 BORE - 4.00"/101.6mm</b>	
Spring	Both	1980-85	<b>32-1195-D</b>	2.010 Free Length. w/ Damper	
Keeper	Both	1978-85	<b>34-555</b>	1 Square Groove. Heat Treated	
Lifter	Both	1981-85	<b>36-2104</b>	Hydraulic Roller	
Valve Stem Seal	Both	1978-85	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562	
	Both	1978-85	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562	
	Both	1978-85	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1978-85	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.	
	Both	1978-85	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.	
	Exh	1978-85	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.	
	Int	1978-85	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.	
	Rocker Component	Both	1978-79	<b>40-2890</b>	Rocker Arm. Stamped
		Both	1980-85	<b>40-2891</b>	Rocker Arm. Stamped
Rocker Kit	Both	1980-85	<b>41-2554</b>	2 40-2891, 2 42-1704 Pivots, 1 42-1718 Steel Bridge	
Expansion Plug Kit		1978-85	<b>97-25</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 159</b>	<b>351 C.I. (5.8L) 12V Vin C, E, M</b>			<b>1960-72 V6 BORE - 4.5625"/115.89mm</b>	
Valve Seat Insert	Int	1960-72	<b>20-2250-2</b>	1-7/8 I.D. 2-1/4 O.D. 9/32 Depth	
	Int	1966-69	<b>20-2375-1</b>	2.000 I.D. 2-3/8 O.D. 3/16 Depth, Vin E, M	
	Exh	1960-72	<b>22-1952-1</b>	1.660 I.D. 1.952 O.D. 0.365 Depth	
Guide	Exh	1960-72	<b>30-9116</b>	3.125 OAL. 0.4375 Spiral I.D. 30-6116 Plain I.D. Also Avail.	
	Int	1960-72	<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.	
Keeper	Exh	1960-72	<b>34-555</b>	1 Square Groove. Heat Treated.	
Valve Stem Seal	Both	1960-72	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.	
	Both	1960-65	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.	
Expansion Plug Kit		1960-72	<b>97-22</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 160</b>	<b>364 C.I (6.0L) OHC 16V Vortec VIN H,K,N,U,Y,5</b>			<b>1999-16 V8 BORE - 4.00"/101.2mm</b>	
Valve	Exh	2007-15	<b>10-13042</b>	1.593 Head Dia. 0.3136 Stem.	
	Exh	2010-15	<b>10-13241S</b>	1.589 Head Dia. Stellite.	
	Exh	2001-13	<b>10-1935</b>	1.550 Head Dia. 0.3136 Stem	
	Exh	1999-13	<b>10-1935S</b>	1.550 Head Dia. Stellite. LPG.	
	Exh	1999-00	<b>10-2045</b>	1.551 Head Dia. 0.3126 Stem	
	Int	2007-15	<b>10-13240</b>	2.165 Head Dia. 0.3135 Stem. 4.870 OAL. Nitrided	
	Int	1999-12	<b>10-13244</b>	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. Nitrided	
	Int	1999-09	<b>10-2267</b>	2.000 Head Dia. 0.3136 Stem. LPG	
	Valve Seat Insert	Exh	1999-15	<b>21-1625-64</b>	1.335T I.D. 1-5/8 O.D. 0.420 Depth
Exh		1999-15	<b>21-1625-64N</b>	1.335T I.D. 1-5/8 O.D. 0.4200 Depth. LPG	
Int		1999-15	<b>21-2062-51</b>	1.750 I.D. 2-1/16 O.D. 0.390 Depth	
Guide	Both	1999-15	<b>30-3053</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D.	
	Both	1999-15	<b>30-3053H</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened	
Spring	Both	2005-15	<b>32-04046</b>	2.126 Free Length. Conical	
	Both	1999-04	<b>32-2500</b>	2.080 Free Length. Conical	
	Both	2005-09	<b>32-5017</b>	2.125 Free Length. Conical.	
Keeper	Both	1999-15	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.	
Lifter	Both	1999-15	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up to Install	
	Both	1999-15	<b>36-2148G</b>	Lifter Guide, Dogbone Type	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 160</b>	<b>364 C.I (6.0L) OHC 16V Vortec VIN H,K,N,U,Y,5</b>			<b>1999-16 V8 BORE - 4.00"/101.2mm</b>
Lifter	Both	2007-15	<b>36-2303</b>	Hydraulic Roller. 3.785 OAL AFM "De-Ac". GM # 12639516
	Both	2007-15	<b>36-2303FG</b>	Front Guide for AFM. Guide Only. 12571596
	Both	2007-15	<b>36-2303FLA</b>	Front Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645724
	Both	2007-15	<b>36-2303RG</b>	Rear Guide for AFM. Guide Only. 12571608
	Both	2007-15	<b>36-2303RLA</b>	Rear Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645723
Valve Stem Seal	Both	1999-01	<b>38-805-55</b>	Viton. Metal Clad.
	Exh	2001-15	<b>38-900-45</b>	Viton. Top Hat
	Int	2001-15	<b>38-901-45</b>	Viton. Top Hat
Retainer	Both	1999-04	<b>55-6103</b>	Chrome Moly. 1.030 O.D. 8mm Stem
Push Rod		1999-15	<b>74-6614</b>	7.397 Length
<b>LINE 161</b>	<b>366 C.I. (6.0L) Vin E, L, N, P</b>			<b>1966-98 V8 BORE - 3.937"/100mm</b>
Valve	Exh	1980-98	<b>10-1235S</b>	1.660 Head Dia. 2nd Des.
	Exh	1980-98	<b>10-1241C</b>	1.660 Head Dia. Sodium Filled 2nd Des.
	Exh	1980-98	<b>10-21235S</b>	1.660 Head Dia. Stellite, Nitrided. Natl. Gas 20 Degree
	Exh	1966-98	<b>10-996S</b>	1.660 Head Dia. 1st Des. +3, 15 O/S Stem Avail.
	Int	1980-98	<b>10-1087</b>	1.940 Head Dia. 2nd Des. +15 O/S Stem May Be Avail.
	Int	1966-85	<b>10-997</b>	1.840 Head Dia. 1st Des. Exc. H.D. Emis. Control. +3, 15 O/S Stem Avail.
Valve Seat Insert	Exh	1966-98	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Exh	1966-98	<b>20-1812-21N</b>	1-15/32 I.D. 1-13/16 O.D. 5/16 Depth. Use w/ 1-13/16 Cutter. Non-Magnetic Nickl Matl.
	Int	1966-98	<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth. w/ 1.840 Valve Head Dia.
	Int	1966-98	<b>20-2125-11</b>	1-3/4 I.D. 2-1/8 O.D. 7/32 Depth, w/ 1.940 Valve Head Dia.
Guide	Exh	1966-83	<b>30-7208</b>	2.740 OAL 0.3740 I.D. 0.6205 O.D.
	Exh	1985-98	<b>30-8256</b>	New Style. 2.755 OAL. Spiral I.D. Drive Out Toward Valve Seat
	Exh	1966-98	<b>30-9208</b>	2.740 OAL. Spiral I.D. 30-7208 Plain I.D. Also Avail. Drive Out Toward Spring Seat
	Int	1966-98	<b>30-9973</b>	2.420 OAL. Spiral I.D.
Spring	Both	1996-98	<b>32-04013</b>	2.050 Free Length. Conical.
	Both	1986-96	<b>32-1330-D</b>	2.060 Free Length. w/ Damper
	Both	1966-85	<b>32-864-D</b>	1st Des. 2.050 Free Length. w/ Damper
Keeper	Both	1966-98	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1966-90	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1991-98	<b>36-969</b>	Hydraulic
Rotator / Retainer		1966-67	<b>37-1046</b>	Rotator. OEM # 14081046
Valve Stem Seal	Both	1966-98	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Both	1966-98	<b>38-2006-25</b>	Polyacrylic. Umbrella.
	Both	1966-98	<b>38-252-45</b>	Viton. Umbrella.
	Both	1984-98	<b>38-844-45</b>	Viton. Ring And Spring.
	Both	1966-98	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
Rocker Component	Both	1991-98	<b>40-2755</b>	Rocker Arm. Stamped
	Both	1966-90	<b>40-2867</b>	Rocker Arm. Stamped. 1.72 Ratio
Rocker Kit	Both	1966-90	<b>41-2504</b>	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
Retainer	Both	1966-96	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
Push Rod		1966-83	<b>74-6335</b>	9.650 Length
		1966-98	<b>74-6443</b>	Int., '68-76 w/Welded Balls. 8.680 Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 161</b>	<b>366 C.I. (6.0L) Vin E, L, N, P</b>		<b>1966-98</b>	<b>V8 BORE - 3.937"/100mm</b>
Expansion Plug Kit		1966-98	97-10	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 162</b>	<b>368 C.I. (6.0L) Cadillac Carb. &amp; F.I. Vin 6, 9 16V</b>		<b>1980-84</b>	<b>V8 BORE - 3.80"/96.52mm</b>
Valve	Exh	1980-84	10-1433	1.500 Head Dia.
	Int	1980-84	10-1434	1.750 Head Dia.
Valve Seat Insert	Exh	1980-84	20-1562-9	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int	1980-84	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both	1980-84	30-9523	3.063 OAL. Spiral I.D. 30-6523 Plain I.D. Also Avail.
Spring	Both	1980-84	32-619	2.250 Free Length
Keeper	Both	1980-84	34-555	1 Square Groove. Heat Treated
Lifter	Both	1980-84	36-969	Hydraulic
Valve Stem Seal	Both	1980-84	38-956-45	Viton. Ring And Band.
Expansion Plug Kit		1980-84	97-5	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 163</b>	<b>370 C.I. (6.1L) 16V</b>		<b>1958-58</b>	<b>V8 BORE - 4.0625"/ 103mm</b>
Guide	Both	1958-58	30-9612	2.875 OAL. Spiral I.D. 30-5612 Plain I.D. Also Avail.
	Exh	1958-58	30-9106	2.750 OAL. Spiral I.D. 30-6106 Plain I.D. Also Avail.
	Int	1958-58	30-9105	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
Spring	Both	1958-58	32-576	Outer. 1.98 Free Length
	Both	1958-58	32-577	Inner. 1.760 Free Length
Keeper	Both	1958-58	34-555	1 Square Groove. Heat Treated
Lifter	Both	1958-58	36-951	Hydraulic
Valve Stem Seal	Both	1958-58	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Push Rod	Both	1958-58	74-6105	9.136 Length
<b>LINE 164</b>	<b>6.2L (378 C.I.) OHV 16V VVT Vin J,R,T,W,2,6,7,8</b>		<b>2007-16</b>	<b>V8 BORE - 103.3mm/4.07"</b>
Valve	Exh	2007-14	10-13042	1.593 Head Dia. 0.3136 Stem Dia.
	Int	2008-14	10-13239	2.165 Head Dia. 4.890 OAL. w/ Man. Trans. 0.225 Tip to Groove
	Int	2007-14	10-13240	2.165 Head Dia. 4.870 OAL. w/ Auto. Trans. 0.204 Tip to Groove
Guide	Both	2007-14	30-3053	2.115 OAL. 0.3154 I.D. 0.500 O.D.
	Both	2007-14	30-3053H	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened
Spring	Both	2007-14	32-04046	2.126 Free Length. Conical.
	Both	2008-15	32-5017	2.125 Free Length. Conical.
Keeper	Both	2007-15	34-5005	0.314 Stem. Round Bead in Middle.
Lifter	Both	2007-15	36-2148	Hydraulic Roller. Rotate Oil Hole Up to Install
	Both	2007-15	36-2148G	Lifter Guide, Dogbone Type
	Both	2007-15	36-2303	Hydraulic Roller. 3.785 OAL. AFM. "De-Ac". GM # 12639516
	Both	2007-15	36-2303FG	Front Guide for AFM. Guide Only. 12571596
	Both	2007-15	36-2303FLA	Front Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645724
	Both	2007-15	36-2303RG	Rear Guide for AFM. Guide Only. 12571608
	Both	2007-15	36-2303RLA	Rear Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645723
Valve Stem Seal	Exh	2007-14	38-901-45	Viton. Top Hat
	Int	2007-14	38-900-45	Viton. Top Hat
Push Rod		2007-14	74-6614	7.397 Length
<b>LINE 165</b>	<b>6.2L (376 C.I.) OHV 16V Vin J L86</b>		<b>2014-16</b>	<b>V8 BORE - 103.3mm/4.07"</b>
Keeper	Both	2014-15	34-5005	0.314 Stem. Round Bead in Middle.
Lifter	Both	2014-15	36-2148	Hydraulic Roller. Rotate Oil Hole Up to Install

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 165</b>	<b>6.2L (376 C.I.) OHV 16V Vin J L86</b>			<b>2014-16 V8 BORE - 103.3mm/4.07"</b>
Lifter	Both	2014-15	<b>36-2303</b>	Hydraulic Roller. 3.785 OAL AFM "De-Ac". GM # 12639516
	Both	2014-15	<b>36-2303FG</b>	Front Guide for AFM. Guide Only. 12571596
	Both	2014-15	<b>36-2303FLA</b>	Front Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645724
	Both	2014-15	<b>36-2303RG</b>	Rear Guide for AFM. Guide Only. 12571608
	Both	2014-15	<b>36-2303RLA</b>	Rear Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645723
<b>LINE 166</b>	<b>379 C.I. (6.2L) 12V</b>			<b>1973-75 V6 BORE - 4.50"/115.89mm</b>
Valve Seat Insert	Int	1973-75	<b>20-2250-2</b>	1-7/8 I.D. 2-1/4 O.D. 9/32 Depth
Guide	Exh	1973-75	<b>30-9116</b>	3.125 OAL. 0.4375 Spiral I.D. 30-6116 Plain I.D. Also Avail.
	Int	1973-75	<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both	1973-75	<b>32-735</b>	2.270 Free Length
Keeper	Exh	1973-75	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1973-75	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1973-75	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
<b>LINE 167</b>	<b>6.2L (381 C.I.) Diesel 16V Vin C, J OHV</b>			<b>1982-93 V8 BORE - 3.976"/101 mm</b>
Valve	Exh	1984-93	<b>10-1482S</b>	1.496 Head Dia. J Eng.
	Exh	1982-87	<b>10-1483S</b>	1.653 Head Dia. 1982-83 All & 1984-87 C Eng.
	Exh	1988-93	<b>10-1780S</b>	1.535 Head Dia. C Eng.
	Int	1982-93	<b>10-1484</b>	1.811 Head Dia. 1982-83 C Eng. & 1984-93 All
	Int	1982-83	<b>10-1518</b>	1.968 Head Dia. J Eng.
Valve Seat Insert	Exh	1982-93	<b>20-1562-36N</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth. w/ 1.535 Valve Head Dia. Non-Magnetic Nickel
	Exh	1982-87	<b>20-1687-15</b>	1-7/16 I.D. 1-11/16 O.D. 5/32 Depth. w/ 1.653 Valve Head Dia.
	Int	1982-93	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth. w/ 1.811 Valve Head Dia.
	Int	1982-83	<b>20-2000-22</b>	1-3/4 I.D. 2.000 O.D. 5/32 Depth. w/ 1.968 Valve Head Dia.
Guide	Exh	1982-93	<b>30-9716</b>	2.188 OAL
	Int	1982-93	<b>30-9715</b>	2.125 OAL
Spring	Both	1982-93	<b>32-1220-D</b>	2.035 Free Length. w/ Damper
Keeper	Both	1982-93	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1982-93	<b>36-2104</b>	Hydraulic Roller
Rotator / Retainer	Both	1988-93	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1982-93	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1982-93	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1982-93	<b>38-552-45</b>	Viton. Metal Clad
	Both	1982-93	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Exh	1982-93	<b>38-921-25</b>	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
Rocker Component	Both	1985-93	<b>40-2900</b>	Rocker Arm
Retainer	Both	1982-93	<b>55-6115</b>	Retainer. 1.200 O.D.
Push Rod	Both	1982-93	<b>74-6609</b>	8.822 Length. OEM # 23503994
Oil Pump Kit		1982-93	<b>97-98B</b>	Brass Kit
<b>LINE 168</b>	<b>389 C.I. (6.4L) Pontiac</b>			<b>1959-66 V8 BORE - 4.06"/103.19mm</b>
Valve	Exh	1964-66	<b>10-1072</b>	1.640 Head Dia. 4BC Or 3-2BC, 1966 w/ 10.5:1 Or 10.75:1 C/R
	Int	1964-66	<b>10-958</b>	1.920 Head Dia. 4BC Or 3-2BC, 1966 w/ 10.5:1 Or 10.75:1 C/R
Valve Seat Insert	Exh	1959-66	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.600 Valve Head.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
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<b>LINE 168</b>	<b>389 C.I. (6.4L) Pontiac</b>			<b>1959-66 V8</b>	<b>BORE - 4.06"/103.19mm</b>
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Valve Seat Insert	Exh	1959-66	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.640 Valve Head Dia.
	Int	1959-66	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth. w/ 1.881 Valve Head Dia.
	Int	1959-66	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.920 Valve Head Dia.
Guide	Exh	1959-60	<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Exh	1959-66	<b>30-9459</b>	2.375 OAL. Spiral 0.343 I.D. 30-7459 Plain I.D. Also Avail.
	Exh	1959-66	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1959-66	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Int	1959-60	<b>30-9612</b>	2.875 OAL. Spiral I.D. 30-5612 Plain I.D. Also Avail.
	Both	1959-64	<b>32-576</b>	Outer. 1.98 Free Length
	Both	1959-64	<b>32-577</b>	Inner 1.203 O.D. 1.760 Free Length
Keeper	Both	1965-66	<b>32-813</b>	Inner 1.050/1.065 O.D. 1.760 Free Length
	Both	1965-66	<b>32-814</b>	1.940 Length,Outer
	Both	1964-66	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1959-66	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1959-66	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1959-66	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1959-66	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1959-66	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Push Rod		1959-66	<b>74-6105</b>	9.136 Length
Expansion Plug Kit		1959-66	<b>97-26</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 169</b>	<b>395 C.I. (6.5L) OHV 16V Turbo Diesel Vin F,P,S,Y,Z</b>			<b>1992-04 V8</b>	<b>BORE - 4.05"/102.87mm</b>
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Valve	Exh	1992-04	<b>10-1780S</b>	1.535 Head Dia. 0.372 Stem Dia.
	Int	1992-04	<b>10-1484</b>	1.811 Head Dia. 0.341 Stem Dia. OEM # 14033927
Valve Seat Insert	Exh	1992-04	<b>20-1562-36N</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth. Non-Magnetic Nickel Matl.
	Int	1992-04	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth.
Guide	Exh	1992-04	<b>30-9716</b>	2.188 OAL
	Int	1992-04	<b>30-9715</b>	2.125 OAL
Spring	Both	1992-04	<b>32-1220-D</b>	2.035 Free Length. w/ Damper
Keeper	Both	1992-04	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1992-04	<b>36-2104</b>	Hydraulic Roller
Rotator / Retainer	Both	1992-04	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Exh	1992-04	<b>38-552-45</b>	Viton. Metal Clad
	Exh	1992-04	<b>38-921-25</b>	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
	Int	1992-04	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Int	1992-04	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Rocker Component	Both	1992-04	<b>40-2900</b>	Rocker Arm.
Retainer	Both	1992-04	<b>55-6115</b>	Retainer. 1.200 O.D.
Oil Pump Kit		1992-04	<b>97-98B</b>	Brass Kit

<b>LINE 170</b>	<b>396/400/402 C.I. Chev. Big Block 16V Vin E,K,S,U</b>			<b>1965-72 V8</b>	<b>BORE - 4.094"/103.91mm</b>
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Valve	Exh	1965-72	<b>10-1106</b>	1.720 Head Dia. +3, +15 O/S Stem May Be Avail.
	Exh	1965-69	<b>10-1131</b>	1.875 Head Dia.
	Int	1965-72	<b>10-1107</b>	2.065 Head Dia. +15 O/S Stem May Be Avail. 10-1107S w/ Stellite Also Avail.
	Int	1965-69	<b>10-1164</b>	2.190 Head Dia.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 170</b>	<b>396/400/402 C.I. Chev. Big Block 16V Vin E,K,S,U</b>			<b>1965-72 V8 BORE - 4.094"/103.91mm</b>
Valve Seat Insert	Exh	1965-72	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth. Cast Iron Heads.
	Exh	1965-69	<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth. Cast Iron Heads.
	Int	1965-72	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail. Cast Iron Heads
Guide	Both	1965-72	<b>30-1973</b>	2.420 OAL. Iron & Alum. Heads. Use Caution When Removing Stepped O.D. Exc. 1965-70 Exh. Iron Heads
	Exh	1965-72	<b>30-1972</b>	2.630 OAL. Iron Heads
Spring	Both	1965-71	<b>32-1009</b>	2.120 Free Length. Double Spring
	Both	1966-70	<b>32-815-D</b>	Pass. Car & Police. 2.093 Free Length
	Both	1966-72	<b>32-816-D</b>	Single w/ Damper. 2.180 Free Length
Keeper	Both	1965-72	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1970-72	<b>36-1161</b>	Hydraulic Retro-Fit Roller Lifter Pair with Bar
	Both	1965-72	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1965-72	<b>36-992</b>	Mechanical High Performance
Valve Stem Seal	Both	1965-72	<b>38-1068-70</b>	Teflon And Rubber.
	Both	1965-72	<b>38-252-45</b>	Viton. Umbrella.
	Both	1965-72	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1965-72	<b>38-921-25</b>	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
Rocker Component	Both	1965-72	<b>40-2867</b>	Rocker Arm. Stamped. 1.72 Ratio
	Both	1965-72	<b>40-2868</b>	Rocker Arm. 1.72 Long Slot w/.560 Lift
Rocker Kit	Both	1965-72	<b>41-2504</b>	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
	Both	1965-72	<b>41-2507</b>	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
Rocker Component	Both	1965-72	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
Retainer	Both	1965-69	<b>55-6201</b>	OEM Style. 1.370 O.D. 3/8 Stem
	Both	1965-72	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
	Both	1965-72	<b>55-6305</b>	Chrome Moly. 1.490 O.D. 3/8 Stem
Push Rod	Exh	1966-70	<b>74-6231</b>	2nd Des. 9.252 Length. 5/16
	Exh	1965-72	<b>74-6380</b>	2nd Des. 9.200 Length. 5/16
	Exh	1965-72	<b>74-6442</b>	9.252 Length. 1st Des. 3/8 Dia.
	Int	1965-70	<b>74-6230</b>	2nd Des. 8.230 Length. 5/16
	Int	1965-72	<b>74-6441</b>	8.280 Length. 1st Des. 3/8 Dia.
Expansion Plug Kit		1965-69	<b>97-10</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1970-72	<b>97-9</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 171</b>	<b>400 C.I. (6.6L) Small Block OHV 16V Vin MNRSUX</b>			<b>1970-80 V8 BORE - 4.125"/104.775mm</b>
Valve	Exh	1970-76	<b>10-1192</b>	1.500 Head Dia. 0.341T Stem. Chrome Plated. +3, 15 O/S Stem Avail.
	Exh	1970-80	<b>10-1206S</b>	1.500 Head Dia. 0.341T Stem. Stellite Faced & Chrome Plated. +15 O/S Stem Avail.
	Exh	1974-80	<b>10-1294</b>	1.500 Head Dia. 0.372 Stem. No Stellite. Chrome Plated. +3, 15, 30 O/S Stem May Be Avail.
	Exh	1974-80	<b>10-1294S</b>	1.500 Head Dia. 0.372 Stem. Stellite Faced & Chrome Plated. 10-1294 w/o Stellite Also Avail.
	Exh	1970-76	<b>10-400</b>	1.500 Head Dia. w/o Chrome. +3, 15, 30 O/S Stem May Be Avail.
	Int	1974-80	<b>10-1193</b>	1.720 Head Dia. Chrome Plated. +3, +15 O/S Stem Avail.
	Int	1970-80	<b>10-696</b>	1.940 Head Dia. Exc. Police. +3 & +15 & +30 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1970-80	<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth, w/ 1.500 Valve Head Dia.
	Exh	1970-70	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth 1970 w/ 1.600 Valve Head Dia.
	Int	1974-80	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.720 Valve Head Dia.
	Int	1970-80	<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 171</b>	<b>400 C.I. (6.6L) Small Block OHV 16V Vin MNRSUX</b>			<b>1970-80 V8 BORE - 4.125"/104.775mm</b>
<b>Guide</b>	Exh	1974-80	<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 30-6107 Plain I.D. Also Avail.
	Exh	1974-80	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Exh	1970-76	<b>30-9946</b>	2.250 OAL. 0.502 O.D. Spiral 0.343 I.D. 30-7946 Plain I.D. Also Avail.
	Int	1970-80	<b>30-9867</b>	2.125 OAL. 0.502 O.D. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
<b>Spring</b>	Both	1970-80	<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both	1970-80	<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
	Exh	1970-80	<b>32-1038-D</b>	1.910 Free Length. w/ Damper
	Int	1970-80	<b>32-880-D</b>	2.030 Free Length. w/ Damper
<b>Keeper</b>	Both	1970-80	<b>34-555</b>	1 Square Groove. Heat Treated
<b>Lifter</b>	Both	1970-80	<b>36-1160</b>	Hydraulic Retro-Fit Roller Lifter Pair with Bar
	Both	1974-80	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1970-76	<b>36-969</b>	Hydraulic Flat
<b>Rotator / Retainer</b>	Both	1970-76	<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both	1970-80	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1970-80	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1970-80	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1970-80	<b>38-250-35</b>	Glass Filled Nylon. Umbrella.
	Both	1970-80	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1970-80	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Both	1970-76	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
<b>Rocker Component</b>	Both	1970-80	<b>40-1840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 7/16 Hole
	Both	1970-80	<b>40-1841</b>	Rocker Arm, SBC 1.5 Roller Tip Long Slot 7/16 Hole
	Both	1970-80	<b>40-1842</b>	Rocker Arm, SBC 1.6 Stamped Long Slot 7/16 Hole
	Both	1970-80	<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
	Both	1970-80	<b>40-2737</b>	Rocker Arm, SBC 1.5 Self-Aligning St Long Slot
	Both	1970-80	<b>40-2738</b>	Rocker Arm, SBC 1.6 Self-Aligning St Long Slot
	Both	1970-80	<b>40-2840</b>	Rocker Arm, SBC 1.5 Stamped Long Slot 3/8 Hole
	Both	1970-80	<b>40-2841</b>	Rocker Arm, 1.6 Stamped Long Slot 3/8 Hole
	Both	1970-80	<b>40-2842</b>	Rocker Arm, 1.5 Stamped 3/8 Hole
<b>Rocker Kit</b>	Both	1970-80	<b>41-1737</b>	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
	Both	1970-80	<b>41-2401</b>	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
	Both	1970-80	<b>41-2501</b>	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1970-80	<b>41-2508</b>	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1970-80	<b>41-2509</b>	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
	Both	1970-80	<b>41-2738</b>	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
<b>Rocker Component</b>		1970-80	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1970-80	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
		1970-80	<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
<b>Retainer</b>	Both	1970-80	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
<b>Push Rod</b>		1970-76	<b>74-6034</b>	7.798 Length
		1970-80	<b>74-6385</b>	5/16" Dia. x 7.794"
<b>Expansion Plug Kit</b>		1970-80	<b>97-9</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 172</b>	<b>400, 401 C.I. (6.6L) Buick 16V</b>			<b>1959-69 V8 BORE - 4.1875"/106.4mm</b>
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<b>Valve</b>	Exh	1967-69	<b>10-1189</b>	1.625 Head Dia. +15 O/S Stem May Be Avail.
	Int	1967-69	<b>10-1105</b>	2.000 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 172</b>	<b>400, 401 C.I. (6.6L) Buick 16V</b>		<b>1959-69 V8</b>	<b>BORE - 4.1875"/106.4mm</b>
Valve Seat Insert	Exh	1959-66	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Exh	1965-69	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1959-66	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Int	1965-69	20-2125-2	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1959-66	30-1733	2.750 OAL. 0.626 O.D. Exh Only '66
	Exh	1967-69	30-9114	2.500 OAL. Spiral I.D. 30-6114 Plain I.D. Also Avail.
	Int	1966-66	30-1937	2.563 OAL. 0.627 O.D.
	Int	1967-69	30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1967-69	32-881-D	2.200 Free Length. w/ Damper
Keeper	Both	1959-69	34-310	0 Groove
Valve Stem Seal	Both	1965-69	38-1036-70	Teflon And Rubber.
	Both	1959-66	38-1050-70	Tef/Rub. 1-Ring. Machine Guide to .500 O.D.
	Both	1967-69	38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit		1965-69	97-4	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 173</b>	<b>400 C.I. (6.6L) Olds 16V</b>		<b>1965-69 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1965-69	10-974	1.624 Head Dia.
	Int	1965-69	10-1002	2.072 Head Dia. 4BC. 66-67 All w/ 0.3428 Stem Dia.
	Int	1968-69	10-1457	1.995 Head Dia. 2BC.
Valve Seat Insert	Exh	1965-69	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1965-69	20-2125-2	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth. w/ 1.995 Valve Head Dia.
	Int	1965-69	20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. w/ 2.072 Valve Head Dia.
Guide	Both	1965-69	30-6873	2.125 OAL 0.3450 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1965-69	30-9873	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1965-67	32-1016-D	1.960 Free Length. w/ Damper
	Both	1968-69	32-884-D	1.960 Free Length. w/ Damper
Keeper	Both	1965-69	34-555	1 Square Groove. Heat Treated.
Lifter	Both	1965-69	36-951	Hydraulic
Valve Stem Seal	Both	1965-69	38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both	1965-69	38-1100-75	All Teflon. 11/32 x 0.562
	Both	1968-69	38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1965-69	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Exh	1965-69	38-922-35	Glass Filled Nylon. Umbrella.
	Int	1965-69	38-923-35	Glass Filled Nylon. Umbrella.
Rocker Component	Both	1965-69	40-2890	Rocker Arm. Stamped
Expansion Plug Kit		1965-69	97-25	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 174</b>	<b>400 C.I. (6.6L) Pontiac 16V Vin N,P,R,S,T,X,Y,Z</b>		<b>1967-79 V8</b>	<b>BORE - 4.12"/104.65mm</b>
Valve	Exh	1968-72	10-1093	1.660 Head Dia. 2BC
	Exh	1968-70	10-1097	1.770 Head Dia. 5.093 OAL. 4BC
	Exh	1971-73	10-1160	1.770 Head Dia. 4.975 OAL, 1971-72 4BC, 1973 WH, YH, YJ, & YW Eng.
	Exh	1973-79	10-1245	1.660 Head Dia. Exc. WH, YJ, YS, & YW Engines
	Int	1968-70	10-1098	2.110 Head Dia. 5.098 OAL. 4BC
	Int	1971-79	10-1161	2.110 Head Dia. 4.979 OAL. 1971-74 4BC, 1975-79 All
	Int	1970-74	10-1296	1.960 Head Dia. 2BC

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 174</b>	<b>400 C.I. (6.6L) Pontiac 16V Vin N,P,R,S,T,X,Y,Z</b>			<b>1967-79 V8 BORE - 4.12"/104.65mm</b>
Valve Seat Insert	Exh	1967-79	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.660 Valve Head Dia.
	Exh	1967-79	20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. w/ 1.770 Valve Head Dia.
	Int	1967-79	20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. w/ 1.920 Valve Head Dia.
	Int	1967-79	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth. w/ 1.960 Valve Head
	Int	1967-79	20-2125-2	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth. w/ 2.110 Valve Head Dia.
Guide	Both	1967-79	30-6523	3.063 OAL. 0.3440 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1967-79	30-9523	3.063 OAL. Spiral I.D. 30-6523 Plain I.D. Also Avail.
Spring	Both	1967-79	32-813	1.760 Free Length Inner w/ Auto. Trans. Exc. Ram Air
	Both	1967-79	32-814	1.940 Free Length Outer w/ Auto. Trans. Exc. Ram Air Outer 1967-70 w/ Manual Trans. Exc. Ram Air
	Both	1967-68	32-922	1.995 Free Length Inner w/ Ram Air
	Both	1967-68	32-923	1.980 Free Length Outer w/ Ram Air
Keeper	Both	1967-79	34-555	1 Square Groove. Heat Treated
Lifter	Both	1967-79	36-951	Hydraulic
Valve Stem Seal	Both	1967-79	38-1065-70	Teflon And Rubber.
	Both	1967-79	38-1066-75	All Teflon. 11/32 x 0.530
	Both	1967-79	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1967-79	38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Retainer	Both	1967-79	55-6105	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1967-79	74-6105	9.136 Length
Expansion Plug Kit		1967-79	97-26	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 175</b>	<b>400 C.I. (6.6L) Duramax Diesel Vin 12368DL OHV 32V</b>			<b>2001-16 V8 BORE - 103mm/4.06"</b>
Valve	Exh.	2001-15	10-2176	1.220 Head Dia.
	Int	2001-15	10-2175	1.299 Head Dia.
Valve Seat Insert	Exh	2001-15	22-1264-1	0.977T I.D. 1.264 O.D. 0.237 Depth. OEM # 97212572
	Int	2001-15	22-1343-1	1.069T I.D. 1.343 O.D. 0.237 Depth.
Guide	Both	2001-05	30-3049	1.967 OAL. 0.455 O.D. 0.2755 I.D. 4-P
	Both	2006-15	30-3142	1.967 OAL. 0.455 O.D. 0.2755 I.D. 1-P
Spring	Both	2001-15	32-04041	2.200 Free Length
Keeper	Both	2001-15	34-5001	1 Round Groove
Valve Stem Seal	Both	2001-05	38-299-45	Viton. Metal Clad
	Both	2006-15	38-6132-55	Viton. Metal Clad
Performance Spring	Both	2001-15	52-4041	2.200 Free Length. 75 @ 1.900. 150 @ 1.400
Retainer	Both	2001-15	55-6066	Retainer. 1.175 O.D.
Injector Component		2001-06	87-1259	Injector O-Ring. OEM # 94051259
		2001-06	87-8463	Injector Tube. OEM # 97188463
Expansion Plug Kit		2001-15	97-301SS	Stainless
<b>LINE 176</b>	<b>401 C.I. (6.6L) M</b>			<b>1966-73 V6 BORE - 4.875"/123.8mm</b>
Valve Seat Insert	Int	1966-73	20-2375-1	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh	1966-73	30-9116	3.125 OAL. 0.4375 Spiral I.D. 30-6116 Plain I.D. Also Avail.
	Int	1966-73	30-9115	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both	1966-73	32-735	2.270 Free Length
Keeper	Exh	1966-73	34-555	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1966-73	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 176</b>	<b>401 C.I. (6.6L) M</b>		<b>1966-73 V6</b>	<b>BORE - 4.875"/123.8mm</b>
Valve Stem Seal	Both	1966-73	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Push Rod	Exh	1971-72	<b>74-6442</b>	9.252 Length. 1st Des. 3/8 Dia.
Expansion Plug Kit		1966-73	<b>97-22</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 177</b>	<b>403 C.I. (6.6L) Olds OHV 16V Vin K</b>		<b>1977-79 V8</b>	<b>BORE - 4.30"/109.2mm</b>
Valve	Exh	1977-79	<b>10-1354</b>	1.502 Head Dia. +3, +15 O/S Stem Avail.
	Int	1977-79	<b>10-1457</b>	1.995 Head Dia. 45 Degree Seat Angle.
Valve Seat Insert	Exh	1977-79	<b>20-1562-9</b>	1-5/16T I.D. 1-9/16 O.D. 7/32 Depth
	Int	1977-79	<b>20-2125-31</b>	1-13/16 I.D. 2-1/8 O.D. 7/32 Depth
Guide	Both	1977-79	<b>30-6873</b>	2.125 OAL. 0.3450 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1977-79	<b>30-9873</b>	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1977-79	<b>32-1016</b>	1.960 Free Length
Keeper	Both	1977-79	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1977-79	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1977-79	<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both	1977-79	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1977-79	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1977-79	<b>38-938-45</b>	Viton. Ring And Band. Polyacrylic 38-938-25 Also Avail.
	Exh	1977-79	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.
	Int	1977-79	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.
Rocker Component	Both	1977-79	<b>40-2890</b>	Rocker Arm. Stamped
Expansion Plug Kit		1977-79	<b>97-76</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 178</b>	<b>409 C.I. (6.7L) Chev. 16V</b>		<b>1961-65 V8</b>	<b>BORE - 4.31"/109.5mm</b>
Valve Seat Insert	Exh	1961-65	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
	Int	1961-65	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail. Cast Iron Heads
Guide	Exh	1961-65	<b>30-9110</b>	2.625 OAL. Spiral I.D. 30-6110 Plain I.D. Also Avail.
	Exh	1961-65	<b>30-9260</b>	2.875 OAL. Spiral I.D. 30-7260 Plain I.D. Also Avail.
	Int	1961-65	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
Spring	Both	1961-65	<b>32-575</b>	2.030 Free Length
	Both	1961-65	<b>32-735</b>	Outer. 2.270 Free Length
Keeper	Both	1961-65	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1961-65	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1961-65	<b>36-992</b>	Mechanical High Performance
Valve Stem Seal	Both	1961-65	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1961-65	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1961-65	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1961-65	<b>38-940-45</b>	Viton. 2-Ring.
	Both	1961-65	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component		1961-65	<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
		1961-65	<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
Push Rod	Exh	1961-65	<b>74-6105</b>	Exc. Hi. Perf. And w/ 4BC
<b>LINE 179</b>	<b>421 C.I. (6.9L) Pontiac</b>		<b>1963-66 V8</b>	<b>BORE - 4.09"/103.96mm</b>
Valve	Exh	1963-66	<b>10-1072</b>	1.640 Head Dia.
	Int	1963-66	<b>10-958</b>	1.920 Head Dia.
Valve Seat Insert	Exh	1963-66	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 179</b>	<b>421 C.I. (6.9L) Pontiac</b>		<b>1963-66 V8</b>	<b>BORE - 4.09"/103.96mm</b>
Valve Seat Insert	Int	1963-66	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Exh	1963-66	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1963-66	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
Spring	Both	1963-66	<b>32-576</b>	Outer Exc. 1963. 1.98 Free Length
	Both	1963-66	<b>32-577</b>	Inner Exc. 1963. 1.760 Free Length
Keeper	Both	1963-66	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1963-66	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1963-66	<b>38-1065-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1963-66	<b>38-1090-75</b>	All Teflon. 11/32 x 0.500
	Both	1963-66	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1963-66	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Retainer	Both	1963-66	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Expansion Plug Kit		1963-66	<b>97-26</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 180</b>	<b>425 C.I. (7.0L) Cadillac Vin S, T OHV</b>		<b>1977-79 V8</b>	<b>BORE - 4.08"/103.63mm</b>
Valve	Exh	1977-79	<b>10-1292</b>	1.625 Head Dia. 4.998 OAL
	Int	1977-79	<b>10-1293</b>	2.000 Head Dia. 4.985 OAL
Valve Seat Insert	Exh	1977-79	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1977-79	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1977-79	<b>30-9523</b>	3.063 OAL. Spiral I.D. 30-6523 Plain I.D. Also Avail.
Spring	Both	1977-79	<b>32-619</b>	2.250 Free Length
Keeper	Both	1977-79	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1977-79	<b>36-969</b>	Hydraulic
Valve Stem Seal	Both	1977-79	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1977-79	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1977-79	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1977-79	<b>97-5</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 181</b>	<b>425 C.I. (7.0L) Olds 16V</b>		<b>1965-67 V8</b>	<b>BORE - 4.125"/104.8mm</b>
Valve	Exh	1965-67	<b>10-974</b>	1.624 Head Dia. Toronado, Hi-Perf. & Irrigation Engines
	Int	1966-67	<b>10-1002</b>	2.072 Head Dia. Toronado, Hi-Perf & Irrigation Engines
	Int	1965-67	<b>10-1457</b>	1.995 Head Dia.
Valve Seat Insert	Exh	1965-67	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1965-67	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth. w/ 1.995 Valve Head Dia.
	Int	1965-67	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. w/ 2.072 Valve Head Dia.
Guide	Both	1965-67	<b>30-6873</b>	2.125 OAL 0.3450 I.D. 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1965-67	<b>30-9873</b>	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1965-67	<b>32-884-D</b>	1.960 Free Length. w/ Damper
Keeper	Both	1965-67	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1965-67	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1965-67	<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both	1965-67	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1965-67	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1965-67	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1965-67	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Exh	1965-67	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
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<b>LINE 181</b>	<b>425 C.I. (7.0L) Olds 16V</b>			<b>1965-67 V8</b>	<b>BORE - 4.125"/104.8mm</b>
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Valve Stem Seal	Int	1965-67	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.
Rocker Component	Both	1965-67	<b>40-2890</b>	Rocker Arm. Stamped
Expansion Plug Kit		1965-67	<b>97-25</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 182</b>	<b>427 C.I. (7.0L) Chev. 16V Incl. Perf.</b>			<b>1966-69 V8</b>	<b>BORE - 4.25"/107.95mm</b>
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Valve	Exh	1966-69	<b>10-1106</b>	1.720 Head Dia. +15 O/S Stem May Be Avail.
	Exh	1966-69	<b>10-1131</b>	1.875 Head Dia.
	Int	1966-69	<b>10-1107</b>	2.065 Head Dia. +15 O/S Stem May Be Avail. 10-1107S w/ Stellite Also Avail.
	Int	1966-69	<b>10-1164</b>	2.190 Head Dia.
Valve Seat Insert	Exh	1966-69	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth. Cast Iron Heads.
	Exh	1966-69	<b>20-1937-18</b>	1-5/8T I.D. 1-15/16 O.D. 0.238 Depth. Aluminum Heads
	Exh	1966-69	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Int	1966-69	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail. Cast Iron Heads
	Int	1966-69	<b>20-2312-9</b>	2.000 I.D. 2-5/16 O.D. 1/4 Depth
Guide	Exh	1966-69	<b>30-1972</b>	2.630 OAL. Iron Heads
	Int	1966-69	<b>30-1973</b>	2.420 OAL. Iron & Alum. Heads. Use Caution When Removing Stepped O.D. Exc. 1966-69 Exh. Iron Heads
Spring	Both	1969-69	<b>32-1009</b>	Early 1969 w/ Dual Springs 2.120 Free Length
	Both	1966-68	<b>32-815-D</b>	2.093 Free Length
	Both	1969-69	<b>32-816-D</b>	From Late 1969 w/ Damper. 2.110 Free Length
Keeper	Both	1966-69	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1966-69	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1966-69	<b>36-992</b>	Mechanical High Performance
Rotator / Retainer	Both	1966-69	<b>37-1046</b>	Rotator. OEM # 14081046
Valve Stem Seal	Both	1966-69	<b>38-1068-70</b>	Teflon And Rubber.
	Both	1966-69	<b>38-119-35</b>	Glass-Filled Nylon. Umbrella
	Both	1966-69	<b>38-252-45</b>	Viton. Umbrella.
	Both	1966-69	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1966-69	<b>38-921-25</b>	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
	Both	1966-69	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Both	1966-69	<b>40-2868</b>	Rocker Arm. BBC 1.72 Long Slot w/.560 Lift
Rocker Component	Both	1966-69	<b>41-2504</b>	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
Rocker Kit	Both	1966-69	<b>41-2507</b>	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
Retainer	Both	1966-69	<b>55-6305</b>	Chrome Moly. 1.490 O.D. 3/8 Stem
Push Rod	Exh	1966-69	<b>74-6231</b>	5/16 Dia. 9.252 Length
	Exh	1966-69	<b>74-6380</b>	9.200 Length 5/16 Dia.
	Exh	1966-69	<b>74-6442</b>	9.252 Length. 1st Des. 3/8 Dia.
	Int	1966-69	<b>74-6230</b>	8.230 Length. 5/16 Dia.
	Int	1966-69	<b>74-6441</b>	8.280 Length. 1st Des. 3/8 Dia.
	Int	1966-69	<b>74-6443</b>	8.680 Length. Welded Balls.
Expansion Plug Kit		1966-69	<b>97-10</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 183</b>	<b>427 C.I. (7.0L) 16V Medium and Heavy Duty</b>			<b>1968-98 V8</b>	<b>BORE - 4.25"/108mm</b>
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Valve	Exh	1968-78	<b>10-1153</b>	1.660 Head Dia.
	Exh	1991-98	<b>10-1235S</b>	1.660 Head Dia.
	Exh	1974-98	<b>10-1241C</b>	1.660 Head Dia. Sodium Filled

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 183 427 C.I. (7.0L) 16V Medium and Heavy Duty 1968-98 V8 BORE - 4.25"/108mm</b>				
Valve	Exh	1991-98	10-21235S	1.660 Head Dia. Stellite, Nitrided. Natl. Gas 20 Degree
	Exh	1968-78	10-996S	1.660 Head Dia. Stellite. +3, 15 O/S Stem Avail.
	Int	1974-85	10-997	1.840 Head Dia. 1st Des. +3, 15 O/S Stem Avail.
Valve Seat Insert	Exh	1968-98	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1968-98	20-1937-17	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth. w/ 1.840 Valve Head Dia.
	Int	1968-98	20-2062-3	1-13/16 I.D. 2-1/16 O.D. 1/4 Depth. w/ 1.940 Valve Head Dia.
Guide	Exh	1968-98	30-9972	2.630 OAL. +3 O/S Avail as repair version ONLY. 30-9972H Hardened Also Avail. Drive Out Toward Spring Seat
	Int	1968-98	30-9973	2.420 OAL
Spring	Both	1986-98	32-1330-D	2.060 Free Length. w/ Damper
	Both	1968-85	32-864-D	2.050 Free Length. w/ Damper
Keeper	Both	1968-98	34-613	1 Groove. Heat Treated
Lifter	Both	1968-90	36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1991-98	36-969	Hydraulic
Rotator / Retainer	Both	1968-98	37-1046	Rotator. OEM # 14081046
Valve Stem Seal	Both	1968-98	38-1068-70	Teflon And Rubber. 0.372 Stem Dia.
	Both	1968-98	38-252-45	Viton. Umbrella.
	Both	1968-98	38-844-45	Viton. Ring And Spring.
	Both	1968-98	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
Rocker Component	Both	1991-98	40-2754	Rocker Arm. With Oil Hole
	Both	1968-90	40-2867	Rocker Arm. Stamped. 1.72 Ratio
Rocker Kit	Both	1968-90	41-2507	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
Retainer	Both	1986-98	55-6304	Chrome Moly. 1.400 O.D. 3/8 Stem
	Both	1968-85	55-6305	Chrome Moly. 1.490 O.D. 3/8 Stem
Push Rod	Exh	1977-90	74-6335	9.650 Length
Expansion Plug Kit		1968-90	97-10	Steel Kit. Brass Kit Avail. In Suffix B
		1991-98	97-135	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 184 427 C.I. (7.0L) OHV 16V Vin E LS7 2006-15 V8 BORE - 104.8mm/4.13"</b>				
Guide	Both	2006-12	30-3053	2.115 OAL. 0.3154 I.D. 0.500 O.D.
	Both	2006-12	30-3053H	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened
Keeper	Both	2006-15	34-5005	0.314 Stem. Round Bead in Middle.
Lifter	Both	2006-15	36-2148	Hydraulic Roller. Rotate Oil Hole Up to Install
	Both	2006-15	36-2148G	Lifter Guide, Dogbone Type
Valve Stem Seal	Exh	2006-15	38-901-45	Viton. Top Hat
	Int	2006-15	38-900-45	Viton. Top Hat
<b>LINE 185 428 C.I. (7.0L) Pontiac 1967-69 V8 BORE - 4.12"/104.65mm</b>				
Valve	Exh	1968-69	10-1097	1.770 Head Dia. Exc. 1969 XE, XJ, YH & YL Engines
	Int	1967-69	10-1098	2.110 Head Dia. Exc. 1969 XE, XJ, YH & YL Engines
Valve Seat Insert	Exh	1967-69	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.660 Valve Head Dia.
	Exh	1967-69	20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. w/ 1.770 Valve Head Dia.
	Int	1967-69	20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth. w/ 1.960 Valve Head
	Int	1967-69	20-2125-2	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth. w/ 2.110 Valve Head Dia.
Guide	Exh	1967-69	30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
	Int	1967-69	30-9560	2.000 OAL. Spiral I.D. 30-7560 Plain I.D. Also Avail.
Spring	Both	1967-69	32-813	Inner. 1.760 Free Length



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 185</b>	<b>428 C.I. (7.0L) Pontiac</b>		<b>1967-69 V8</b>	<b>BORE - 4.12"/104.65mm</b>
Spring	Both	1967-69	<b>32-814</b>	Outer. 1.940 Free Length
Keeper	Both	1968-69	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1967-69	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1967-69	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Retainer	Both	1967-69	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod		1967-69	<b>74-6105</b>	9.136 Length
Expansion Plug Kit		1967-69	<b>97-26</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 186</b>	<b>429 C.I. (7.0L) Carb. 16V Cadillac</b>		<b>1964-67 V8</b>	<b>BORE - 4.129"/105.2mm</b>
Valve Seat Insert	Exh	1964-67	<b>20-1625-4</b>	1-5/16 I.D. 1-5/8 O.D. 7/32 Depth
	Int	1964-67	<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Both	1964-67	<b>30-1745</b>	2.266 OAL. 0.5636 O.D. 0.3445 I.D.
Spring	Both	1964-67	<b>32-619</b>	2.250 Free Length
Keeper	Both	1964-67	<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1964-67	<b>38-1065-70</b>	Teflon And Rubber.
<b>LINE 187</b>	<b>430 C.I. (7.0L) Buick</b>		<b>1967-69 V8</b>	<b>BORE - 4.1875"/106.36mm</b>
Valve	Exh	1967-69	<b>10-1189</b>	1.625 Head Dia. +15 O/S Stem May Be Avail.
	Int	1967-69	<b>10-1105</b>	2.000 Head Dia.
Valve Seat Insert	Exh	1967-69	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1967-69	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Exh	1967-69	<b>30-9114</b>	2.500 OAL. Spiral I.D. 30-6114 Plain I.D. Also Avail.
	Int	1967-69	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1967-69	<b>32-881-D</b>	2.200 Free Length. w/ Damper
Keeper	Both	1967-69	<b>34-310</b>	0 Groove
Valve Stem Seal	Both	1967-69	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1967-69	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit		1967-69	<b>97-4</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 188</b>	<b>432 C.I. (7.1L) 12V</b>		<b>1973-75 V6</b>	<b>BORE - 4.875"/123.8mm</b>
Valve Seat Insert	Int	1973-74	<b>20-2375-1</b>	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh	1973-74	<b>30-9116</b>	3.125 OAL. 0.4375 Spiral I.D. 30-6116 Plain I.D. Also Avail.
	Int	1973-74	<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both	1973-74	<b>32-735</b>	2.270 Free Length
Keeper	Exh	1973-74	<b>34-555</b>	1 Square Groove. Heat Treated.
Valve Stem Seal	Both	1973-74	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1973-74	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Expansion Plug Kit		1973-74	<b>97-22</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 189</b>	<b>454 C.I. (7.4L) 16V Light Duty Vin BJNSVWXYZ</b>		<b>1970-00 V8</b>	<b>BORE - 4.25"/108mm</b>
Valve	Exh	1970-76	<b>10-1106</b>	1.720 Head Dia. +3, +15 O/S Stem May Be Avail.
	Exh	1970-76	<b>10-1131</b>	1.875 Head Dia.
	Exh	1987-00	<b>10-1235S</b>	1.660 Head Dia. Stellite
	Exh	1971-00	<b>10-1261S</b>	1.720 Head Dia. Stellite.
	Exh	1985-00	<b>10-1578S</b>	1.720 Head Dia. Inconel Head Matl.
	Exh	1985-00	<b>10-1578SP</b>	1.720 Head Dia. Inconel, Stellite, Nitrided. For Natl. Gas. 45 Degree
	Exh	1987-00	<b>10-21235S</b>	1.660 Head Dia. Stellite, Nitrided. Natl. Gas 20 Degree

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 189</b>	<b>454 C.I. (7.4L) 16V Light Duty Vin BJNSVWXYZ</b>			<b>1970-00 V8 BORE - 4.25"/108mm</b>
Valve	Int	1970-00	10-1107	2.065 Head Dia. +15 O/S Stem May Be Avail. 10-1107S w/ Stellite Also Avail.
	Int	1970-76	10-1164	2.190 Head Dia.
Valve Seat Insert	Exh	1970-00	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.720 Head Dia. -N Nickel Also Avail.
	Exh	1971-00	20-1812-9N	1-1/2 I.D. 1-13/16 O.D. 5/16 Depth. O/S Replacement For Late Heads w/ Factory Installed Exh. Seat
	Exh	1970-76	20-1937-17	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth.
	Int	1970-00	20-2125-38	1-13/16 I.D. 2-1/8 O.D. 3/16 Depth. w/ 2.065 Valve Head Dia.
	Int	1970-76	20-2312-9	2.000 I.D. 2-5/16 O.D. 1/4 Depth
	Exh	1971-00	22-1784-1N	1.417T I.D. 1.7845 O.D. 0.292 Depth. w/ Factory Installed Exh. Seat
	Exh	1971-00	22-1784-2N	Same as 22-1781-1N w/ straight I.D.
Guide	Exh	1985-00	30-8113	New Style. 2.435 OAL. Drive Guide Out Toward Valve Seat.
	Exh	1985-00	30-8256	2.755 OAL. Same As 30-8113 But Not Cut For Seal
	Exh	1970-00	30-9972	2.630 OAL. +3 O/S Avail as repair version ONLY. 30-9972H Hardened Also Avail. Drive Out Toward Spring Seat
	Int	1970-00	30-9973	2.420 OAL
Spring	Both	1996-00	32-04013	2.050 Length. Conical
	Both	1971-72	32-1009	2.120 Free Length. Double Spring
	Both	1973-74	32-1041-D	2.093 Free Length. w/ Damper
	Both	1987-95	32-1330-D	2.060 Free Length. w/ Damper
	Both	1970-00	32-5010	2.520 Free Length. Use instead of Rotator or Rotator eliminator.
	Both	1970-70	32-816-D	2.110 Free Length, w/ Damper
	Both	1975-85	32-864-D	2.050 Free Length. w/ Damper
Keeper	Both	1970-00	34-613	1 Groove. Heat Treated
Lifter		1997-00	36-2279G	Lifter Guide, Dogbone Type
	Both	1997-00	36-2279	Hydraulic Roller
	Both	1970-90	36-817CCI	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1991-96	36-969	Hydraulic Flat
	Both	1970-76	36-992	Mechanical. Hi-Perf.
Rotator / Retainer	Both	1971-95	37-1046	Rotator. OEM # 14081046
	Both	1996-00	37-2899	Rotator. OEM # 10240899
	Both	1970-00	37-4250	Retainer. Use w/ 32-5010
Valve Stem Seal	Both	1970-00	38-1068-70	Teflon And Rubber. 0.372 Stem Dia.
	Both	1996-00	38-119-35	Glass-Filled Nylon. Umbrella
	Both	1970-00	38-252-45	Viton. Umbrella.
	Both	1973-90	38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Both	1987-00	38-844-45	Viton. Ring And Spring.
	Both	1970-00	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1973-90	38-921-25	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
Rocker Component	Both	1992-00	40-2754	Rocker Arm. Larger Stud Hole.
	Both	1970-91	40-2867	Rocker Arm. Stamped. 1.72 Ratio
	Both	1970-00	40-2868	Rocker Arm. 1.72 Long Slot w/.560 Lift
Rocker Kit	Both	1970-90	41-2504	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
	Both	1970-00	41-2507	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
	Both	1991-00	41-2673	1 40-2754, 1 42-1861 Ball, 1 42-2971 Stud Bolt
Rocker Component		1970-00	42-2971	Rocker Stud.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 189</b>	<b>454 C.I. (7.4L) 16V Light Duty Vin BJNSVWXYZ</b>			<b>1970-00 V8 BORE - 4.25"/108mm</b>
Retainer	Both	1973-74	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
	Both	1970-76	<b>55-6305</b>	Chrome Moly. 1.490 O.D. 3/8 Stem
Push Rod	Exh	1970-00	<b>74-6231</b>	9.162 Length. 5/16 Dia.
	Exh	1970-91	<b>74-6380</b>	9.200 Length 5/16 Dia.
	Exh	1970-00	<b>74-6442</b>	9.252 Length. 1st Des. 3/8 Dia.
	Int	1970-00	<b>74-6230</b>	8.230 Length. 5/16 Dia.
Expansion Plug Kit		1970-00	<b>74-6441</b>	8.280 Length. 1st Des. 3/8 Dia.
		1970-90	<b>97-10</b>	Steel Kit. Brass Kit Avail. In Suffix B
		1991-00	<b>97-135</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 190</b>	<b>454 C.I. (7.4L) Medium Duty Vin S,W</b>			<b>1979-81 V8 BORE - 4.25"/108mm</b>
Valve	Exh	1979-81	<b>10-1241C</b>	1.660 Head Dia. Sodium Filled
	Int	1979-81	<b>10-997</b>	1.840 Head Dia. +3, 15 O/S Stem Avail.
Valve Seat Insert	Exh	1979-81	<b>20-1812-5N</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth. Non-Magnetic Nickel
	Int	1979-81	<b>20-2000-1</b>	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Exh	1979-81	<b>30-9972</b>	2.630 OAL. +3 O/S Avail as repair version ONLY. 30-9972H Hardened Also Avail. Drive Out Toward Spring Seat
	Exh	1979-81	<b>30-9972H</b>	2.630 OAL 0.3740 I.D. 0.6203 O.D. Hardened
	Int	1979-81	<b>30-9973</b>	2.420 OAL
Spring	Both	1979-81	<b>32-864-D</b>	2.050 Free Length. w/ Damper
Keeper	Both	1979-81	<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1979-81	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
Valve Stem Seal	Both	1979-00	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Both	1979-00	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both	1979-81	<b>38-921-25</b>	Polyacrylic. 2-Ring. 38-921-15 in Nitrile Matl. Also Avail.
Retainer	Both	1979-81	<b>55-6304</b>	Chrome Moly. 1.400 O.D. 3/8 Stem
Expansion Plug Kit		1979-81	<b>97-10</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 191</b>	<b>455 C.I. (7.5L) Olds 16V OHV, Vin R, S, T</b>			<b>1968-76 V8 BORE - 4.125"/104.775mm</b>
Valve	Exh	1968-76	<b>10-1210</b>	1.684 Head Dia. 30 Degree Seat Angle
	Exh	1968-76	<b>10-1324</b>	1.622 Head Dia. 30 Degree Seat Angle. +3, 15 O/S Stem Avail.
	Exh	1968-76	<b>10-974</b>	1.624 Head Dia. 45 Degree Seat Angle
	Int	1968-76	<b>10-1002</b>	2.072 Head Dia. 30 Degree Seat Angle
	Int	1968-76	<b>10-1457</b>	1.995 Head Dia. 45 Degree Seat Angle.
Valve Seat Insert	Exh	1968-76	<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int	1968-76	<b>20-2125-3</b>	1-15/16 I.D. 2-1/8 O.D. 3/16 Depth. w/ 2.072 Valve Head Dia.
	Int	1968-76	<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth w/ 1.995 Valve Head Dia.
Guide	Both	1968-73	<b>30-6873</b>	2.125 OAL 0.3450 I.D., 0.5020 O.D. Plain I.D. Conversion Guide
	Both	1968-76	<b>30-9873</b>	2.125 OAL. Spiral I.D. 30-6873 Plain I.D. Also Avail.
Spring	Both	1968-76	<b>32-1016</b>	1968-69 Exc. F-85 Toronado & Police - 1970 Exc. F-85 & Performance Eng. - 1971 Exc. Toronado - 1972 Toronado - 1973 w/ Auto. - 1974 All Exc. w/ 30-1975-76 All, 1.960 Free Length w/o Damper
	Both	1972-73	<b>32-1016-D</b>	Exc. 72 Toronado Exc. 73 w/ Auto. Trans. 1.960 Free Length w/ Damper
	Both	1968-71	<b>32-884-D</b>	1968 All Exc. F85 w/o A1 Police & Toronado- 1969 F85 w/o A1 & All Exc. F85 Hurst- 1970 F85 & Performance Eng - 1971 Toronado 1.960 Free Length w/ Damper
Keeper	Both	1968-76	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1968-76	<b>36-951</b>	Hydraulic

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 191</b>	<b>455 C.I. (7.5L) Olds 16V OHV, Vin R, S, T</b>			<b>1968-76 V8 BORE - 4.125"/104.775mm</b>
Valve Stem Seal	Both	1968-76	<b>38-1054-70</b>	Teflon And Rubber.
	Both	1968-76	<b>38-1100-75</b>	All Teflon. 11/32 x 0.562
	Both	1968-76	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Both	1968-76	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
	Exh	1968-76	<b>38-922-35</b>	Glass Filled Nylon. Umbrella.
	Int	1968-76	<b>38-923-35</b>	Glass Filled Nylon. Umbrella.
Rocker Component	Both	1968-76	<b>40-2890</b>	Rocker Arm. Stamped
Expansion Plug Kit		1968-76	<b>97-25</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 192</b>	<b>455 C.I. (7.5L) Buick 16V Vin P,R,T,U,V,W</b>			<b>1970-76 V8 BORE - 4.31"/109.5mm</b>
Valve	Exh	1970-74	<b>10-1189</b>	1.625 Head Dia. Exc. Gran Sport & Stage 1. +15 O/S Stem May Be Avail.
	Exh	1975-76	<b>10-1321</b>	1.687 Head Dia. Exc. Stage 1
	Int	1970-76	<b>10-1105</b>	2.000 Head Dia. Exc. 70-74 Gran Sport & All Stage 1
Valve Seat Insert	Exh	1970-76	<b>20-1750-3</b>	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth.
	Int	1970-76	<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth
Guide	Exh	1970-76	<b>30-9114</b>	2.500 OAL. Spiral I.D. 30-6114 Plain I.D. Also Avail.
	Int	1970-76	<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both	1971-72	<b>32-1003-D</b>	2.200 Free Length 1.302 O.D. Exc. Stage 1 Or E Series GS-8 Exh. w/ Damper
	Both	1973-76	<b>32-1034</b>	2.220 Free Length 1.204 O.D. Exc. 1973-74 Stage 1 Or E Series GS-8 Int
	Both	1970-70	<b>32-881-D</b>	2.200 Free Length 1.302 O.D. Exc. Stage 1 w/ Damper
Keeper	Both	1970-74	<b>34-310</b>	0 Groove
Lifter	Both	1970-76	<b>36-969</b>	Hydraulic
Valve Stem Seal	Both	1970-76	<b>38-1036-70</b>	Teflon And Rubber.
	Both	1970-76	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
	Both	1970-76	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Rocker Component	Both	1970-76	<b>40-2813</b>	Rocker Arm, RH Stamped Steel
	Both	1970-76	<b>40-2814</b>	Rocker Arm, LH Stamped Steel
	Both	1970-76	<b>42-1724</b>	Rocker Comp., Shaft Plug Set. Plastic Retainer
Expansion Plug Kit		1970-76	<b>97-4</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 193</b>	<b>455 C.I. (7.5L) Pontiac Vin U,V,W,X,Y, OHV</b>			<b>1970-76 V8 BORE - 4.151"/105.44mm</b>
Valve	Both	1970-72	<b>10-1161</b>	2.110 Head Dia. Exc. 1970 YH Engine, 1971-72 H.O. 4.979 OAL
	Exh	1970-70	<b>10-1093</b>	1.660 Head Dia. YH Engine
	Exh	1971-72	<b>10-1160</b>	1.770 Head Dia. H.O. 4.975 OAL
	Int	1970-70	<b>10-1296</b>	1.960 Head Dia. YH Engine
Valve Seat Insert	Exh	1970-76	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.660 Valve Head Dia.
	Exh	1970-76	<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. w/ 1.770 Valve Head Dia.
	Int	1970-76	<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth
Guide	Both	1970-76	<b>30-9523</b>	3.063 OAL. Spiral I.D. 30-6523 Plain I.D. Also Avail.
Spring	Both	1970-76	<b>32-813</b>	Inner Exc. Super Duty. 1.760 Free Length
	Both	1970-76	<b>32-814</b>	Outer Exc. Super Duty. 1.940 Free Length
Keeper	Both	1970-76	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1970-76	<b>36-951</b>	Hydraulic
Valve Stem Seal	Both	1970-76	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1970-76	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 193</b>	<b>455 C.I. (7.5L) Pontiac Vin U,V,W,X,Y, OHV</b>			<b>1970-76 V8 BORE - 4.151"/105.44mm</b>
Valve Stem Seal	Both	1970-76	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1970-76	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1970-76	<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Retainer	Both	1970-76	<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
Push Rod	Both	1970-76	<b>74-6105</b>	9.136 Length
Expansion Plug Kit		1970-76	<b>97-26</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 194</b>	<b>472 C.I. (7.7L) Cadillac Vin R</b>			<b>1968-74 V8 BORE - 4.30"/109.2mm</b>
Valve	Exh	1968-73	<b>10-1083</b>	1.625 Head Dia. 5.246 OAL
	Exh	1974-74	<b>10-1292</b>	1.625 Head Dia. 4.998 OAL
	Int	1968-73	<b>10-1084</b>	2.000 Head Dia. 5.233 OAL
	Int	1974-74	<b>10-1293</b>	2.000 Head Dia. 4.985 OAL
Valve Seat Insert	Exh	1968-74	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1968-74	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1968-74	<b>30-9105</b>	2.500 OAL. 0.3440 Spira I.D. 0.5020 O.D. 30-6105 Plain I.D. Also Avail.
Spring	Both	1968-74	<b>32-619</b>	2.250 Free Length
Keeper	Both	1968-74	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1968-74	<b>36-969</b>	Hydraulic
Valve Stem Seal	Both	1968-74	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1968-74	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1968-74	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1968-74	<b>97-5</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 195</b>	<b>7780cc (7.8L) SOHC 6HK1 24V Diesel (Isuzu) Vin 3,B</b>			<b>1999-09 L6 BORE - 4.53"/115mm</b>
Valve	Exh	1999-09	<b>10-13122</b>	1.456 Head Dia. 0.312 Stem. OEM # 8972098763
	Int	1999-09	<b>10-13121</b>	1.457 Head Dia. 0.313 Stem. OEM # 8943958822
Guide	Both	1999-09	<b>30-3101</b>	2.245 OAL. 0.3150 I.D. 0.5526 O.D.
Valve Stem Seal	Both	1999-09	<b>38-223-55</b>	Viton. Metal Clad.
	Both	1999-09	<b>38-962-45</b>	Viton. Ring And Spring.
<b>LINE 196</b>	<b>478 C.I. (7.8L) Diesel 12V</b>			<b>1961-74 V6 BORE - 5.125"/130.1 mm</b>
Valve Seat Insert	Int	1961-74	<b>20-2375-1</b>	2.000 I.D. 2-3/8 O.D. 3/16 Depth
	Exh		<b>22-1952-1</b>	1.660 I.D. 1.952 O.D. 0.3445 Depth
Guide	Int	1961-74	<b>30-7669</b>	3.969 OAL. Spiral I.D. 0.3735 I.D. 0.502 O.D.
	Int	1961-74	<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Valve Stem Seal	Both	1961-74	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Expansion Plug Kit		1961-74	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 197</b>	<b>478 C.I. (7.8L) Gas 12V</b>			<b>1962-65 V6 BORE - 5.25"/133.3mm</b>
Valve Seat Insert	Int	1962-65	<b>20-2250-2</b>	1-7/8 I.D. 2-1/4 O.D. 9/32 Depth
	Exh	1962-65	<b>22-1952-1</b>	1.660 I.D. 1.952 O.D. 0.3445 Depth
Guide	Exh	1962-65	<b>30-9197</b>	3.000 OAL
	Int	1962-65	<b>30-7669</b>	3.969 OAL. Spiral I.D. 0.3735 I.D. 0.502 O.D.
	Int	1962-65	<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both	1962-65	<b>32-735</b>	2.270 Free Length
Keeper	Exh	1962-65	<b>34-555</b>	1 Square Groove. Heat Treated.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 197</b>	<b>478 C.I. (7.8L) Gas 12V</b>		<b>1962-65 V6</b>	<b>BORE - 5.25"/133.3mm</b>
Valve Stem Seal	Both	1962-65	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1962-65	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Expansion Plug Kit		1962-65	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 198</b>	<b>478 C.I. (7.8L) 12V Vin M</b>		<b>1973-75 V6</b>	<b>BORE - 5.25"/133.3mm</b>
Valve Seat Insert	Int	1973-74	<b>20-2375-1</b>	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh	1973-75	<b>30-9197</b>	3.000 OAL
	Int	1973-75	<b>30-7669</b>	3.969 OAL. Spiral I.D.
	Int	1973-75	<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Keeper	Exh	1973-75	<b>34-555</b>	1 Square Groove. Heat Treated.
Valve Stem Seal	Both	1973-75	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1973-75	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
Expansion Plug Kit		1973-75	<b>97-100</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 199</b>	<b>496 C.I. (8.1L) 16V Vortec Vin G OHV</b>		<b>2001-09 V8</b>	<b>BORE - 4.25"/108mm</b>
Valve	Exh	2001-09	<b>10-2126S</b>	1.720 Head Dia. Inconel for Gas, LPG, or Natl. Gas
	Int	2001-09	<b>10-1164</b>	2.190 Head Dia. Stainless Option
	Int	2001-09	<b>10-2101</b>	2.187 Head Dia.
Valve Seat Insert	Int	2001-09	<b>20-2250-1</b>	1-15/16 I.D. (Non-Tapered) 2-1/4 O.D. 3/16 Depth. Machine I.D. To Fit
	Exh	2001-09	<b>22-1784-1N</b>	1.417T I.D. 1.7845 O.D. 0.292 Depth. w/ Factory Installed Exh. Seat. May Need Depth Change.
	Exh	2001-09	<b>22-1784-2N</b>	Same as 22-1784-1N w/ straight I.D.
Guide	Exh	2001-09	<b>30-3024</b>	2.610 OAL. Replaces Integral Guide. Remove From Combustion Side.
	Int	2001-09	<b>30-3025</b>	2.250 OAL. Replaces Integral Guide.
Spring	Both	2001-09	<b>32-04042</b>	2.180 Free Length. Conical. Gasoline
	Both	2001-09	<b>32-2522</b>	2.212 Free Length. Conical
Keeper	Both	2001-09	<b>34-613</b>	1 Square Groove. Heat Treated
Lifter	Both	2001-09	<b>36-2279</b>	Hydraulic Roller
	Both	2001-09	<b>36-2279G</b>	Lifter Guide, Dogbone Type
Rotator / Retainer	Both	2001-09	<b>37-2899</b>	Rotator. OEM # 10240899
Valve Stem Seal	Both	2001-09	<b>38-811-55</b>	Viton. Metal Clad.
Rocker Component	Both	2001-09	<b>40-9111</b>	Rocker Arm, Stamped
Push Rod	Exh	2001-09	<b>74-6639</b>	9.132 Length
	Int	2001-09	<b>74-6638</b>	8.190 Length.
<b>LINE 200</b>	<b>500 C.I. (8.2L) Cadillac Vin S OHV</b>		<b>1970-76 V8</b>	<b>BORE - 4.30"/109.22mm</b>
Valve	Exh	1970-73	<b>10-1083</b>	1.625 Head Dia. 5.246 OAL
	Exh	1974-76	<b>10-1292</b>	1.625 Head Dia. 4.998 OAL
	Int	1970-73	<b>10-1084</b>	2.000 Head Dia. 5.233 OAL
	Int	1974-76	<b>10-1293</b>	2.000 Head Dia. 4.985 OAL
Valve Seat Insert	Exh	1970-76	<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int	1970-76	<b>20-2125-2</b>	1-7/8 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both	1970-76	<b>30-9105</b>	2.500 OAL. 0.3440 Spira I.D. 0.5020 O.D. 30-6105 Plain I.D. Also Avail.
Spring	Both	1970-76	<b>32-619</b>	2.250 Free Length
Keeper	Both	1970-76	<b>34-555</b>	1 Square Groove. Heat Treated.
Lifter	Both	1970-76	<b>36-969</b>	Hydraulic

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 200</b>	<b>500 C.I. (8.2L) Cadillac Vin S OHV</b>			<b>1970-76 V8 BORE - 4.30"/109.22mm</b>
Valve Stem Seal	Both	1970-76	<b>38-1065-70</b>	Teflon And Rubber.
	Both	1970-76	<b>38-1066-75</b>	All Teflon. 11/32 x 0.530
	Both	1970-76	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1970-76	<b>97-5</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 201</b>	<b>637 C.I. (10.4L) 16V OHV</b>			<b>1966-72 V8 BORE - 5.125"/130.1mm</b>
Valve Seat Insert	Int	1966-72	<b>20-2250-2</b>	1-7/8 I.D. 2-1/4 O.D. 9/32 Depth
	Exh	1966-72	<b>22-1952-1</b>	1.660 I.D. 1.952 O.D. 0.3445 Depth
<b>LINE 202</b>	<b>702 C.I. (11.6L) 24V</b>			<b>1960-65 V12 BORE - 4.5625"/115.89mm</b>
Valve Seat Insert	Int	1960-65	<b>20-2250-2</b>	1-7/8 I.D. 2-1/4 O.D. 9/32 Depth
	Exh	1960-65	<b>22-1952-1</b>	1.660 I.D. 1.952 O.D. 0.3445 Depth
Spring	Both	1960-65	<b>32-735</b>	2.270 Free Length
Keeper	Exh	1960-65	<b>34-555</b>	1 Square Groove. Heat Treated.
Valve Stem Seal	Both	1960-65	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.

ENGINE	YEAR	CYL.	LINE NO.
Knucklehead	1936-47	V2	1
Shovelhead	1966-84	V2	2
Panhead	1948-94	V2	3
883cc (0.9L) Evolution	1986-94	V2	4
900cc (0.9L)	1957-85	V2	5
1000cc (1.0L) Iron Head	1957-85	V2	6
1100cc (1.1L)	1986-94	V2	7
1200cc (1.2L) Evolution	1987-94	V2	8
1340cc (1.3L) Evolution Big Twin	1984-94	V2	9

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>Knucklehead 1936-47 V2</b>			
Valve Seat Insert	Both	1936-47	20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
<b>LINE 2</b>	<b>Shovelhead 1966-84 V2</b>			
Valve Seat Insert	Exh	1966-84	22-1969-2	1.535 I.D. 1.9685 O.D. 0.413 Depth. O/S Repair Insert. Also Avail. In Non-Magnetic Matl. In -N Suffix
	Int	1966 84	22-2165-1	1.732 I.D. 2.1654 O.D. 0.433 Depth. Opt, O/S Repair Insert. Also Avail. In Non-Magnetic Matl. In -N Suffix
<b>LINE 3</b>	<b>Panhead 1948-94 V2</b>			
Valve Seat Insert	Exh	1986-94	20-1625-8	1-3/16 I.D. 1-5/8 O.D. 3/8 Depth. Std. For 1986. 87-94: O/S Repair Insert
	Both	1948-65	22-1969-2	1.535 I.D. 1.9685 O.D. 0.413 Depth. O/S Repair Insert. Also Avail In Non-Magnetic Matl., -N Suffix
	Int	1986-94	22-1850-2	1.437 I.D. 1.850 O.D. 0.394 Depth. For 1986. O/S Repair Insert For '87-94. Also Avail In Non-Magnetic Matl., -N Suffix
<b>LINE 4</b>	<b>883cc (0.9L) Evolution 1986-94 V2</b>			
Valve Seat Insert	Exh	1986-94	20-1625-8	1-3/16 I.D. 1-5/8 O.D. 3/8 Depth. Std. For 1986. 87-94: O/S Repair Insert
	Int	1986-94	22-1850-2	1.437 I.D. 1.8504 O.D. 0.394 Depth. For '86 O/S Repair Insert for '87-94. Also Avail. In Non-Magnetic Matl., -N Suffix
<b>LINE 5</b>	<b>900cc (0.9L) 1957-85 V2</b>			
Valve Seat Insert	Exh	1957-85	20-1750-4	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must Cut Seat Angle to 30 Degrees. Also Avail. In Non-Magnetic Matl., -N Suffix
	Int	1957-85	20-2000-2	1-11/16 I.D. 2.000 O.D. 9/32 Depth
<b>LINE 6</b>	<b>1000cc (1.0L) Iron Head 1957-85 V2</b>			
Valve Seat Insert	Exh	1957-85	20-1750-4	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must Cut Seat Angle to 30 Degrees. Also Avail. In Non-Magnetic Matl., -N Suffix
	Int	1957-85	20-2062-8	1-11/16 I.D. 2-1/16 O.D. 9/32 Depth
<b>LINE 7</b>	<b>1100cc (1.1L) 1986-94 V2</b>			
Valve Seat Insert	Exh	1987-94	20-1625-8	1-3/16 I.D. 1-5/8 O.D. 3/8 Depth. O/S Repair Insert
	Exh	1986-86	22-1772-2	1.358 I.D. 1.7717 O.D. 0.394 Depth. Also Avail. In Non-Magnetic Matl. In -N Suffix
	Int	1987-94	22-1850-2	1.437 I.D. 1.850 O.D. 0.394 Depth. O/S Repair Insert. Also Avail. In Non-Magnetic Matl., -N Suffix
	Int	1986-86	22-1969-2	1.535 I.D. 1.9685 O.D. 0.413 Depth. Also Avail. In Non-Magnetic Matl., -N Suffix
<b>LINE 8</b>	<b>1200cc (1.2L) Evolution 1987-94 V2</b>			
Valve Seat Insert	Exh	1987-94	20-1625-8	1-3/16 I.D. 1-5/8 O.D. 3/8 Depth. O/S Repair Insert



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# MOTORCYCLE

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>1200cc (1.2L) Evolution</b>			<b>1987-94 V2</b>
Valve Seat Insert	Int	1987-94	<b>22-1850-2</b>	1.437 I.D. 1.850 O.D. 0.394 Depth. O/S Repair Insert. Also Avail. In Non-Magnetic Matl., -N Suffix
<b>LINE 9</b>	<b>1340cc (1.3L) Evolution Big Twin</b>			<b>1984-94 V2</b>
Valve Seat Insert	Exh	1984-94	<b>22-1772-2</b>	1.358 I.D. 1.7717 O.D. 0.394 Depth. O/S Repair Insert. Also Avail. In Non-Magnetic Matl. -N Suffix
	Int	1984-94	<b>22-1969-2</b>	1.535 I.D. 1.9685 O.D. 0.413 Depth. O/S Repair Insert. Also Avail In Non-Magnetic Matl., -N Suffix

<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
995cc (1.0L) SOHC 12V ECA (VTEC Hybrid)	2000-06	L3	1
1237cc (1.2L) SOHC EB1,2,3	1973-79	L4	2
1335cc (1.3L) SOHC EJ1	1980-83	L4	3
1339cc (1.3L) SOHC 8V (Hybrid) LDA	2003-14	L4	4
1342cc (1.3L) SOHC EV1, D13A2	1984-87	L4	5
1488cc (1.5L) SOHC 8V ED1,2	1975-76	L4	6
1488cc (1.5L) SOHC 12V ED3,4, EM1	1976-83	L4	7
1488cc (1.5L) SOHC 12V EW1	1984-86	L4	8
1488cc (1.5L) SOHC 12V EW1 High Fuel, D15A2	1985-87	L4	9
1488cc (1.5L) SOHC 12V EW3,4, D15A3	1985-87	L4	10
1493cc (1.5L) SOHC D15B	1988-95	L4	11
1493cc (1.5L) SOHC 16V D15Z1 VTEC	1992-95	L4	12
1497cc (1.5L) SOHC 16V LEA, L15A	2007-16	L4	13
1590cc (1.6L) DOHC 16V D16A	1986-89	L4	14
1590cc (1.6L) SOHC 16V D16A6	1988-91	L4	15
1590cc (1.6L) SOHC 16V VTEC D16-B5,Y5/7/8, Z6	1992-00	L4	16
1595cc (1.6L) DOHC 16V B16A VTEC	1994-00	L4	17
1597cc (1.6L) SOHC EF1	1976-78	L4	18
1678cc (1.7L) DOHC 16V B17A1 VTEC	1992-93	L4	19
1688cc (1.7L) SOHC 16V D17A VTEC	2001-05	L4	20
1751cc (1.8L) SOHC 12V EK1	1979-83	L4	21
1797cc (1.8L) DOHC 16V B18C/1/5 VTEC	1994-01	L4	22
1799cc (1.8L) DOHC 16V R18	2006-16	L4	23
1829cc (1.8L) SOHC 12/16V ES1-3, ET1/2, A18A	1983-87	L4	24
1834cc (1.8L) DOHC 16V B18A1, B18B1 Acura	1990-01	L4	25
1955cc (2.0L) SOHC 12V BS1-2, A20A, B20A	1986-90	L4	26
1958cc (2.0L) DOHC 16V B20A5	1988-91	L4	27
1972cc (2.0L) DOHC 16V B20B4/B20Z2	1997-01	L4	28
1993cc (2.0L) DOHC 16V LFA1 Hybrid Elec/Gas	2014-15	L4	29
1997cc (2.0L) DOHC 16V F20C1	2000-03	L4	30
1997cc (2.0L) SOHC 16V R20A	2013-15	L4	31
1998cc (2.0L) DOHC 16V K20A2/3, K20Z1/3	2002-11	L4	32
2056cc (2.1L) DOHC 16V B21A1	1990-91	L4	33
2156cc (2.2L) SOHC 16V F22A, F22B	1990-97	L4	34
2157cc (2.2L) DOHC 16V H22A VTEC	1993-01	L4	35
2157cc (2.2L) DOHC 16V F22C1	2004-09	L4	36
2254cc (2.3L) SOHC 16V F23A VTEC	1998-02	L4	37
2259cc (2.3L) DOHC 16V H23A1	1992-96	L4	38
2300cc (2.3L) DOHC 16V K23A1 Turbo	2007-13	L4	39
2354cc (2.4L) DOHC 16V J24, K24A/Z	2002-16	L4	40
2451cc (2.5L) SOHC 20V G25A	1992-98	L5	41
2494cc (2.5L) SOHC 24V C25A	1986-87	V6	42
2559cc (2.6L) SOHC 4ZE1 (Isuzu)	1994-97	L4	43
2675cc (2.7L) SOHC 24V C27A	1987-97	V6	44
2977cc (3.0L) DOHC 24V C30A VTEC	1991-02	V6	45
2997cc (3.0L) SOHC 24V J30A VTEC	1997-07	V6	46
2997cc (3.0L) SOHC 24V Hybrid JNA1	2005-07	V	47
3165cc (3.2L) SOHC 24V 6VD1 (Isuzu) Vin V	1994-97	V6	48
3165cc (3.2L) DOHC 24V 6VD1W (Isuzu)	1998-02	V6	49
3179cc (3.2L) DOHC 24V C32B VTEC	1997-05	V6	50
3206cc (3.2L) SOHC 24V C32A	1991-98	V6	51
3210cc (3.2L) SOHC 24V J32A VTEC	1999-08	V6	52
3471cc (3.5L) SOHV 24V J35A, J35Z1 VTEC	1999-16	V6	53
3474cc (3.5L) SOHC 24V C35A1	1996-04	V6	54

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# PASSENGER CAR & TRUCK

3507cc (3.5L) DOHC 24V (Isuzu) 6VE1  
3664cc (3.7L) SOHC J37A1 24V

1998-99 V6 55  
2007-14 V6 56

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>995cc (1.0L) SOHC 12V ECA (VTEC Hybrid)</b>			<b>2000-06 L3 BORE - 72mm/2.83"</b>
Guide	Both	2000-06	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Keeper	Both	2000-06	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2000-06	38-592-55	Viton. Metal Clad
<b>LINE 2</b>	<b>1237cc (1.2L) SOHC EB1,2,3</b>			<b>1973-79 L4 BORE - 72mm/2.835"</b>
Valve Seat Insert	Exh	1973-77	21-1375-52	1.000T I.D. 1-3/8 O.D. 0.410 Depth
	Int	1973-79	21-1437-52	1.150T I.D. 1-7/16 O.D. 0.410 Depth
	Int	1978-79	21-1562-51	1.245T I.D. 1-9/16 O.D. 0.354 Depth
Keeper	Both	1973-79	34-234	1 Groove. OEM # 14781-551-000
Valve Stem Seal	Both	1973-79	38-965-45	Viton. Ring And Spring.
<b>LINE 3</b>	<b>1335cc (1.3L) SOHC EJ1</b>			<b>1980-83 L4 BORE - 74mm/2.913"</b>
Valve Seat Insert	Exh	1980-83	21-1250-52	0.910T I.D. 1-1/4 O.D. 0.285 Depth
	Int	1980-83	21-1500-64	1.140T I.D. 1-1/2 O.D. 0.325 Depth
Guide	Exh	1980-83	30-7659	2.165 OAL. +2 O/S Avail.
	Int	1980-83	30-7830	1.970 OAL. +2 O/S Avail.
Keeper	Both	1980-83	34-234	1 Groove. OEM # 14781-551-000
Valve Stem Seal	Both	1980-83	38-965-45	Viton. Ring And Spring.
Expansion Plug Kit		1980-83	97-33	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 4</b>	<b>1339cc (1.3L) SOHC 8V (Hybrid) LDA</b>			<b>2003-14 L4 BORE - 73mm/2.87"</b>
Valve	Exh	2003-04	10-10525	1.024 Head Dia.
	Int	2003-04	10-10524	1.181 Head Dia.
Valve Seat Insert	Exh	2003-08	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
	Int	2003-08	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
Guide	Both	2003-14	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
	Exh	2011-14	30-8157	2.130 OAL. 0.436 O.D.
Spring	Exh	2003-08	32-1398	1.943 Free Length
Keeper	Both	2003-14	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2003-14	38-592-55	Viton. Metal Clad
Expansion Plug Kit		2003-08	97-110	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>1342cc (1.3L) SOHC EV1, D13A2</b>			<b>1984-87 L4 BORE - 74mm/2.913"</b>
Valve	Exh	1984-87	10-10187S	1.142 Head Dia.
	Int	1984-87	10-10186	1.181 Head Dia.
Valve Seat Insert	Both	1984-87	21-1250-52	0.910T I.D. 1-1/4 O.D. 0.285 Depth
Guide	Exh	1984-87	30-7659	2.165 OAL. +2 O/S Avail.
	Int	1984-87	30-7830	1.970 OAL. +2 O/S Avail.
Keeper	Both	1984-87	34-234	1 Groove. OEM # 14781-551-000
Valve Stem Seal	Both	1984-87	38-965-45	Viton. Ring And Spring.
Expansion Plug Kit		1984-87	97-0212	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 6</b>	<b>1488cc (1.5L) SOHC 8V ED1,2</b>			<b>1975-76 L4 BORE - 74mm/2.913"</b>
Valve Seat Insert	Exh	1975-76	21-1250-52	0.910T I.D. 1-1/4 O.D. 0.285 Depth
	Int	1975-76	21-1500-65	1.140T I.D. 1-1/2 O.D. 0.325 Depth
Guide	Exh	1975-76	30-7659	2.165 OAL. +2 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 6</b>	<b>1488cc (1.5L) SOHC 8V ED1,2</b>				<b>1975-76 L4 BORE - 74mm/2.913"</b>
Spring	Exh	1975-75	<b>32-1289</b>	Outer. 1.960 Free Length	
Keeper	Both	1975-76	<b>34-234</b>	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1975-76	<b>38-965-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1975-76	<b>97-42</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 7</b>	<b>1488cc (1.5L) SOHC 12V ED3,4, EM1</b>				<b>1976-83 L4 BORE - 74mm/2.913"</b>
Valve Seat Insert	Exh	1976-83	<b>21-1250-52</b>	0.910T I.D. 1-1/4 O.D. 0.285 Depth	
	Int	1976-83	<b>21-1500-64</b>	1.140T I.D. 1-1/2 O.D. 0.325 Depth	
Guide	Exh	1976-83	<b>30-7659</b>	2.165 OAL. +2 O/S Avail.	
	Int	1980-83	<b>30-7830</b>	1.970 OAL. +2 O/S Avail.	
Keeper	Both	1976-83	<b>34-234</b>	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1976-83	<b>38-965-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1976-83	<b>97-42</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 8</b>	<b>1488cc (1.5L) SOHC 12V EW1</b>				<b>1984-86 L4 BORE - 74mm/2.913"</b>
Valve	Exh	1984-86	<b>10-10189</b>	1.260 Head Dia. Exc. 1500Si	
	Int	1984-86	<b>10-10188</b>	1.063 Head Dia.	
Valve Seat Insert	Exh	1984-86	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
	Int	1984-86	<b>21-1125-54</b>	0.900 I.D. 1-1/8 O.D. 0.325 Depth	
Guide	Exh	1984-86	<b>30-7659</b>	2.165 OAL. +2 O/S Avail.	
	Int	1984-86	<b>30-7830</b>	1.970 OAL. +2 O/S Avail.	
Keeper	Both	1984-86	<b>34-234</b>	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1984-86	<b>38-965-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1984-86	<b>97-42</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 9</b>	<b>1488cc (1.5L) SOHC 12V EW1 High Fuel, D15A2</b>				<b>1985-87 L4 BORE - 74mm/2.913"</b>
Valve	Exh	1985-87	<b>10-10187S</b>	1.142 Head Dia.	
	Int	1985-87	<b>10-10186</b>	1.181 Head Dia.	
Valve Seat Insert	Both	1985-87	<b>21-1250-52</b>	0.910T I.D. 1-1/4 O.D. 0.285 Depth	
Guide	Exh	1985-87	<b>30-7659</b>	2.165 OAL. +2 O/S Avail.	
	Int	1985-87	<b>30-7830</b>	1.970 OAL. +2 O/S Avail.	
Keeper	Both	1985-87	<b>34-234</b>	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1985-87	<b>38-965-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1985-87	<b>97-42</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 10</b>	<b>1488cc (1.5L) SOHC 12V EW3,4, D15A3</b>				<b>1985-87 L4 BORE - 74mm/2.913"</b>
Valve	Exh	1985-87	<b>10-10413</b>	1.299 Head Dia.	
	Int	1985-87	<b>10-10188</b>	1.063 Head Dia.	
Valve Seat Insert	Exh	1985-87	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
	Int	1985-87	<b>21-1125-54</b>	0.900 I.D. 1-1/8 O.D. 0.325 Depth	
Guide	Exh	1985-87	<b>30-7659</b>	2.165 OAL. +2 O/S Avail.	
	Int	1985-87	<b>30-7830</b>	1.970 OAL. +2 O/S Avail.	
Keeper	Both	1985-87	<b>34-234</b>	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1985-87	<b>38-965-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1985-87	<b>97-42</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 11</b>	<b>1493cc (1.5L) SOHC D15B</b>				<b>1988-95 L4 BORE - 75mm/2.953"</b>
Valve	Exh	1988-95	<b>10-10191</b>	0.984 Head Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 11</b>	<b>1493cc (1.5L) SOHC D15B</b>			<b>1988-95 L4</b>	<b>BORE - 75mm/2.953"</b>
Valve	Int	1988-95	<b>10-10190</b>	1.142 Head Dia.	
Valve Seat Insert	Exh	1988-95	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Int	1988-95	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth.	
Guide	Exh	1988-95	<b>30-8157</b>	2.130 OAL. 0.436 O.D.	
	Exh	1988-95	<b>30-8577</b>	1.870 OAL. 0.4765 O.D.	
	Int	1988-95	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
	Int	1988-95	<b>30-8397</b>	1.640 OAL.	
Spring	Exh	1988-95	<b>32-1398</b>	D15B1, D15B2. 1.943 Free Length	
Keeper	Both	1988-95	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1988-95	<b>38-592-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1988-95	<b>97-110</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 12</b>	<b>1493cc (1.5L) SOHC 16V D15Z1 VTEC</b>			<b>1992-95 L4</b>	<b>BORE - 75mm/2.953"</b>
Valve	Int	1992-95	<b>10-10526</b>	1.083 Head Dia.	
Guide	Both	1992-95	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Spring	Exh	1992-95	<b>32-1449</b>	2.279 Free Length	
	Int	1992-95	<b>32-1447</b>	2.153 Free Length	
Keeper	Both	1992-95	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1992-95	<b>38-592-55</b>	Viton. Metal Clad.	
<b>LINE 13</b>	<b>1497cc (1.5L) SOHC 16V LEA, L15A</b>			<b>2007-16 L4</b>	<b>BORE - 73mm/2.87"</b>
Valve	Exh	2007-13	<b>10-3063</b>	0.905 Head Dia. 0.215 Stem. Fit, City	
	Int	2007-13	<b>10-3062</b>	1.083 Head Dia. 0.215 Stem. Fit, City	
Guide	Both	2007-13	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Keeper	Both	2007-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2007-15	<b>38-592-55</b>	Viton. Metal Clad.	
<b>LINE 14</b>	<b>1590cc (1.6L) DOHC 16V D16A</b>			<b>1986-89 L4</b>	<b>BORE - 75.2mm/2.96"</b>
Valve Seat Insert	Exh	1986-89	<b>21-1187-54</b>	0.880 I.D. 1-3/16 O.D. 0.280 Depth	
	Int	1986-89	<b>21-1250-62</b>	1.000 I.D. 1-1/4 O.D. 0.305 Depth	
Guide	Exh	1986-89	<b>30-8155</b>	1.975 OAL. 0.4765 O.D.	
	Int	1986-89	<b>30-8156</b>	1.770 OAL. 0.4765 O.D.	
Keeper	Both	1986-89	<b>34-235</b>	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1986-89	<b>38-569-45</b>	Viton. Metal Clad	
<b>LINE 15</b>	<b>1590cc (1.6L) SOHC 16V D16A6</b>			<b>1988-91 L4</b>	<b>BORE - 75mm/2.953"</b>
Valve	Exh	1988-91	<b>10-10191</b>	0.984 Head Dia.	
	Int	1988-91	<b>10-10190</b>	1.142 Head Dia.	
Valve Seat Insert	Exh	1988-91	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Int	1988-91	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth.	
Guide	Exh	1988-91	<b>30-8157</b>	2.130 OAL. 0.436 O.D.	
	Int	1988-91	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Spring	Exh	1988-91	<b>32-1398</b>	1.943 Free Length	
Keeper	Both	1988-91	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1988-91	<b>38-592-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1988-91	<b>97-110</b>	Steel Kit. Brass Kit Avail. In Suffix B	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 16</b>	<b>1590cc (1.6L) SOHC 16V VTEC D16-B5,Y5/7/8, Z6</b>			<b>1992-00 L4</b>	<b>BORE - 75mm/2.953"</b>
Valve	Exh	1992-00	10-10525	1.024 Head Dia.	
	Int	1992-00	10-10524	1.181 Head Dia.	
Valve Seat Insert	Exh	1992-00	21-1062-51	0.870 I.D. 1-1/16 O.D. 0.195 Depth	
	Int	1992-00	21-1250-62	1.000 I.D. 1-1/4 O.D. 0.305 Depth	
Guide	Exh	1992-00	30-8157	2.130 OAL. 0.436 O.D.	
	Int	1992-00	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Spring	Exh	1992-00	32-1448	2.300 Free Length	
Keeper	Both	1992-00	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1992-00	38-592-55	Viton. Metal Clad.	
<b>LINE 17</b>	<b>1595cc (1.6L) DOHC 16V B16A VTEC</b>			<b>1994-00 L4</b>	<b>BORE - 81mm/3.188"</b>
Valve	Exh	1994-00	10-10435	1.103 Head Dia.	
	Int	1994-00	10-10434	1.299 Head Dia.	
Valve Seat Insert	Exh	1994-00	21-1250-58	0.955 I.D. 1-1/4 O.D. 0.255 Depth	
	Int	1994-00	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.	
Guide	Exh	1994-00	30-8577	1.870 OAL. 0.4765 O.D.	
	Int	1994-00	30-8397	1.640 OAL. 0.4765 O.D.	
Keeper	Both	1994-00	34-5024	1 Round Groove	
Valve Stem Seal	Both	1994-00	38-592-55	Viton. Metal Clad	
Performance Spring	Both	1994-00	52-8105	Dual. 29mm O.D.	
Retainer	Both	1994-00	55-9005	Titanium. 1.100 O.D. 5.5mm Stem	
<b>LINE 18</b>	<b>1597cc (1.6L) SOHC EF1</b>			<b>1976-78 L4</b>	<b>BORE - 74mm/2.913"</b>
Valve Seat Insert	Exh	1976-78	21-1250-52	0.910T I.D. 1-1/4 O.D. 0.285 Depth	
	Int	1976-78	21-1500-64	1.140T I.D. 1-1/2 O.D. 0.325 Depth	
Guide	Exh	1976-78	30-7659	2.165 OAL. +2 O/S Avail.	
Keeper	Int	1976-78	34-234	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Int	1976-78	38-965-45	Viton. Ring And Spring.	
Expansion Plug Kit		1976-78	97-42	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 19</b>	<b>1678cc (1.7L) DOHC 16V B17A1 VTEC</b>			<b>1992-93 L4</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1992-93	10-10435	1.103 Head Dia.	
	Int	1992-93	10-10434	1.299 Head Dia.	
Valve Seat Insert	Exh	1992-93	21-1250-58	0.955 I.D. 1-1/4 O.D. 0.255 Depth	
	Int	1992-93	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.	
Guide	Exh	1992-93	30-8577	1.870 OAL. 0.4765 O.D.	
	Int	1992-93	30-8397	1.640 OAL	
Valve Stem Seal	Both	1992-93	38-592-55	Viton. Metal Clad	
<b>LINE 20</b>	<b>1688cc (1.7L) SOHC 16V D17A VTEC</b>			<b>2001-05 L4</b>	<b>BORE - 75mm/2.95"</b>
Valve	Exh	2001-05	10-10525	1.024 Head Dia.	
	Int	2001-05	10-10524	1.181 Head Dia.	
Valve Seat Insert	Exh	2001-05	21-1062-51	0.870 I.D. 1-1/16 O.D. 0.195 Depth	
	Int	2001-05	21-1250-62	1.000 I.D. 1-1/4 O.D. 0.305 Depth	
Guide	Exh	2001-05	30-8157	2.130 OAL. 0.436 O.D.	
	Int	2001-05	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Spring	Exh	2001-05	32-1448	2.300 Free Length	
Keeper	Both	2001-05	34-5008	1 Round Groove. 0.215 Stem Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>1688cc (1.7L) SOHC 16V D17A VTEC</b>			<b>2001-05 L4 BORE - 75mm/2.95"</b>
Valve Stem Seal	Both	2001-05	38-592-55	Viton. Metal Clad.
<b>LINE 21</b>	<b>1751cc (1.8L) SOHC 12V EK1</b>			<b>1979-83 L4 BORE - 77mm/3.00"</b>
Valve	Exh	1979-81	10-10080S	1.100 Head Dia.
	Exh	1982-83	10-10113S	1.181 Head Dia.
	Int	1979-80	10-10082	1.339 Head Dia. Exc. CA
	Int	1980-81	10-10112	1.377 Head Dia. 1980 CA Only, 1981 All
	Int	1982-83	10-10115	1.417 Head Dia.
Valve Seat Insert	Exh	1979-81	21-1250-52	0.910T I.D. 1-1/4 O.D. 0.285 Depth. w/ 1.100 Valve Head Dia.
	Exh	1982-83	21-1312-68	0.975 I.D. 1-5/16 O.D. 0.280 Depth. w/ 1.181 Valve Head Dia.
	Int	1979-81	21-1500-64	1.140T I.D. 1-1/2 O.D. 0.325 Depth. w/ 1.377 & 1.339 Valve Head Dia.
	Int	1982-83	21-1500-75	1.180 I.D. 1-1/2 O.D. 0.300 Depth. w/ 1.417 Valve Head Dia.
Guide	Exh	1979-83	30-7710	2.168 OAL. +2 O/S Avail.
	Int	1979-83	30-7711	1.965 OAL.
Spring	Int	1981-83	32-1213	Auxiliary Exc. 1983 Prelude. 1.335 Free Length
Valve Stem Seal	Both	1982-83	38-976-45	Viton. Metal Clad.
	Exh	1979-81	38-965-45	Viton. Ring And Spring.
Expansion Plug Kit		1979-83	97-42	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 22</b>	<b>1797cc (1.8L) DOHC 16V B18C/1/5 VTEC</b>			<b>1994-01 L4 BORE - 81mm/3.19"</b>
Valve	Exh	1994-01	10-10435	1.103 Head Dia.
	Int	1994-01	10-10434	1.299 Head Dia.
Valve Seat Insert	Exh	1994-01	21-1250-58	0.955 I.D. 1-1/4 O.D. 0.255 Depth
	Int	1994-01	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.
Guide	Exh	1994-01	30-8577	1.870 OAL. 0.4765 O.D.
	Int	1994-01	30-8397	1.640 OAL
Keeper	Both	1994-01	34-5024	1 Round Groove
Valve Stem Seal	Both	1994-01	38-592-55	Viton. Metal Clad.
<b>LINE 23</b>	<b>1799cc (1.8L) DOHC 16V R18</b>			<b>2006-16 L4 BORE - 81mm/3.19"</b>
Valve	Exh	2006-15	10-10525	1.024 Head Dia.
	Int	2006-09	10-3064	1.256 Head Dia.
Guide	Both	2006-14	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
	Exh	2006-13	30-8157	2.130 OAL. 0.436 O.D.
Keeper	Both	2006-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2006-15	38-592-55	Viton. Metal Clad
<b>LINE 24</b>	<b>1829cc (1.8L) SOHC 12/16V ES1-3, ET1/2, A18A</b>			<b>1983-87 L4 BORE - 80mm/3.15"</b>
Valve	Exh	1983-87	10-10193	1.376 Head Dia.
	Int	1983-87	10-10192	1.180 Head Dia.
Valve Seat Insert	Exh	1983-87	21-1500-69	1.255 I.D. 1-1/2 O.D. 0.318 Depth.
	Int	1983-87	21-1312-56	1.086 I.D. 1-5/16 O.D. 0.305 Depth.
Guide	Exh	1983-87	30-7710	2.168 OAL. +2 O/S Avail.
	Int	1983-87	30-7830	1.970 OAL. +2 O/S Avail.
Keeper	Exh	1983-87	34-235	1 Round Groove. Heat Treated
	Int	1983-87	34-234	1 Groove. OEM # 14781-551-000
Valve Stem Seal	Exh	1983-87	38-976-45	Viton. Metal Clad.
	Int	1983-87	38-965-45	Viton. Ring And Spring.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 24</b>	<b>1829cc (1.8L) SOHC 12/16V ES1-3, ET1/2, A18A</b>		<b>1983-87</b>	<b>L4</b>	<b>BORE - 80mm/3.15"</b>
Expansion Plug Kit		1983-87	97-110	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 25</b>	<b>1834cc (1.8L) DOHC 16V B18A1, B18B1 Acura</b>		<b>1990-01</b>	<b>L4</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1990-01	10-10196	1.102 Head Dia.	
	Int	1990-95	10-10122	1.217 Head Dia.	
	Int	1996-01	10-10742	1.224 Head Dia.	
Valve Seat Insert	Exh	1990-01	21-1250-63	0.930 I.D. 1-1/4 O.D. 0.325 Depth	
	Int	1990-01	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
Guide	Exh	1990-93	30-8155	1.975 OAL	
	Exh	1994-01	30-8579	1.970 OAL	
	Int	1990-93	30-8156	1.770 OAL	
	Int	1994-01	30-8578	1.775 OAL.	
Keeper	Both	1990-01	34-235	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1990-01	38-569-45	Viton. Metal Clad	
<b>LINE 26</b>	<b>1955cc (2.0L) SOHC 12V BS1-2, A20A, B20A</b>		<b>1986-90</b>	<b>L4</b>	<b>BORE - 82.7mm/3.2559"</b>
Valve	Exh	1986-90	10-10193	1.376 Head Dia.	
	Int	1986-90	10-10192	1.180 Head Dia.	
Valve Seat Insert	Exh	1986-90	21-1500-69	1.255 I.D. 1-1/2 O.D. 0.318 Depth.	
	Int	1986-90	21-1312-56	1.086 I.D. 1-5/16 O.D. 0.305 Depth.	
Guide	Exh	1986-90	30-7710	2.168 OAL. +2 O/S Avail.	
	Int	1986-90	30-7830	1.970 OAL. +2 O/S Avail.	
Keeper	Exh	1986-90	34-235	1 Round Groove. Heat Treated	
	Int	1986-90	34-234	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Exh	1986-90	38-976-45	Viton. Metal Clad.	
	Int	1986-90	38-965-45	Viton. Ring And Spring.	
Expansion Plug Kit		1986-90	97-110	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 27</b>	<b>1958cc (2.0L) DOHC 16V B20A5</b>		<b>1988-91</b>	<b>L4</b>	<b>BORE - 81mm/3.189"</b>
Valve	Exh	1988-91	10-10196	1.102 Head Dia.	
	Int	1988-91	10-10195	1.299 Head Dia.	
Valve Seat Insert	Exh	1988-91	21-1250-63	0.930 I.D. 1-1/4 O.D. 0.325 Depth	
	Int	1988-91	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
Guide	Exh	1988-91	30-8155	1.975 OAL	
	Int	1988-91	30-8156	1.770 OAL	
Spring	Both	1988-91	32-1392	Outer. 1.903 Free Length	
	Both	1988-91	32-1396	Inner. 1.711 Free Length	
Valve Stem Seal	Both	1988-91	38-965-45	Viton. Ring And Spring.	
Expansion Plug Kit		1988-91	97-110	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 28</b>	<b>1972cc (2.0L) DOHC 16V B20B4/B20Z2</b>		<b>1997-01</b>	<b>L4</b>	<b>BORE - 84mm/3.31"</b>
Valve	Exh	1997-01	10-10196	1.102 Head Dia.	
	Int	1997-01	10-10742	1.224 Head Dia.	
Valve Seat Insert	Exh	1997-01	21-1250-63	0.930 I.D. 1-1/4 O.D. 0.325 Depth	
Guide	Exh	1997-01	30-8155	1.975 OAL	
	Int	1997-01	30-8156	1.770 OAL	
Valve Stem Seal	Both	1997-01	38-569-45	Viton. Metal Clad	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 29</b>	<b>1993cc (2.0L) DOHC 16V LFA1 Hybrid Elec/Gas</b>			<b>2014-15 L4</b>	<b>BORE - 81mm/3.189"</b>
Keeper	Both	2014-15	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2014-15	38-592-55	Viton. Metal Clad	
<b>LINE 30</b>	<b>1997cc (2.0L) DOHC 16V F20C1</b>			<b>2000-03 L4</b>	<b>BORE - 87mm/3.43</b>
Guide	Int	2000-03	30-3136	1.630 OAL 0.2173 I.D.	
Valve Stem Seal	Both	2000-03	38-592-55	Viton. Metal Clad	
<b>LINE 31</b>	<b>1997cc (2.0L) SOHC 16V R20A</b>			<b>2013-15 L4</b>	<b>BORE - 81mm/3.19"</b>
Keeper	Both	2013-15	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2013-15	38-592-55	Viton. Metal Clad.	
<b>LINE 32</b>	<b>1998cc (2.0L) DOHC 16V K20A2/3, K20Z1/3</b>			<b>2002-11 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	2002-11	10-03032	1.181 Head Dia. 0.2148 Stem	
	Int	2002-11	10-03031	1.378 Head Dia. 0.2148 Stem	
Guide	Exh	2002-11	30-3137	1.790 OAL 0.2173 I.D.	
	Int	2002-11	30-3136	1.630 OAL 0.2173 I.D.	
Keeper	Both	2002-11	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2002-11	38-592-55	Viton. Metal Clad.	
<b>LINE 33</b>	<b>2056cc (2.1L) DOHC 16V B21A1</b>			<b>1990-91 L4</b>	<b>BORE - 83mm/3.2677"</b>
Valve	Exh	1990-91	10-10414	1.102 Head Dia.	
	Int	1990-91	10-10195	1.299 Head Dia.	
Valve Seat Insert	Exh	1990-91	21-1250-63	0.930 I.D. 1-1/4 O.D. 0.325 Depth	
	Int	1990-91	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
Guide	Exh	1990-91	30-8155	1.975 OAL	
	Int	1990-91	30-8156	1.770 OAL	
Spring	Both	1990-91	32-1396	Inner. 1.711 Free Length	
	Int	1990-91	32-1392	Outer. 1.903 Free Length	
Keeper	Both	1990-91	34-234	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Both	1990-91	38-965-45	Viton. Ring And Spring.	
<b>LINE 34</b>	<b>2156cc (2.2L) SOHC 16V F22A, F22B</b>			<b>1990-97 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1990-97	10-10198	1.142 Head Dia. 4.862 OAL	
	Exh	1994-97	10-10542	1.142 Head Dia. 4.496 OAL. F22B1	
	Int	1990-96	10-10197	1.339 Head Dia. F22A1/4/6	
	Int	1994-97	10-10432	1.260 Head Dia. F22B2, F22B6	
	Int	1994-97	10-10541	1.339 Head Dia.	
Valve Seat Insert	Exh	1990-97	21-1250-64	0.970 I.D. 1-1/4 O.D. 0.270 Depth.	
	Int	1994-97	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
	Int	1990-97	21-1375-65	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
Guide	Exh	1990-97	30-8157	2.130 OAL. 0.436 O.D.	
	Int	1990-97	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Spring		1994-97	32-04034	2.185 OAL	
	Exh	1992-95	32-1453	2.187 Free Length	
	Int	1992-95	32-1452	2.100 Free Length	
Keeper	Both	1990-97	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1990-97	38-592-55	Viton. Metal Clad.	
	Exh	1991-97	38-995-25	Polyacrylic. Metal Clad.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 34</b>	<b>2156cc (2.2L) SOHC 16V F22A, F22B</b>		<b>1990-97 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve Stem Seal	Int	1990-97	38-994-55	Viton. Metal Clad.
Retainer	Both	1990-97	55-9005	Titanium. 1.100 O.D. 5.5mm Stem
<b>LINE 35</b>	<b>2157cc (2.2L) DOHC 16V H22A VTEC</b>		<b>1993-01 L4</b>	<b>BORE - 87mm/3.40"</b>
Valve Seat Insert	Exh	1993-01	21-1250-62	1.000 I.D. 1-1/4 O.D. 0.305 Depth
	Int	1993-01	21-1375-65	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
Guide	Exh	1993-01	30-8583	2.045 OAL
	Int	1993-01	30-8582	1.715 OAL
Keeper	Both	1993-01	34-5024	1 Round Groove
Valve Stem Seal	Both	1993-01	38-592-55	Viton. Metal Clad.
Performance Spring	Both	1993-01	52-8105	Dual. 29mm O.D.
Retainer	Both	1993-01	55-9005	Titanium. 1.100 O.D. 5.5mm Stem
<b>LINE 36</b>	<b>2157cc (2.2L) DOHC 16V F22C1</b>		<b>2004-09 L4</b>	<b>BORE - 87mm/3.43"</b>
Valve Stem Seal	Both	2004-09	38-592-55	Viton. Metal Clad.
<b>LINE 37</b>	<b>2254cc (2.3L) SOHC 16V F23A VTEC</b>		<b>1998-02 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1998-02	10-10542	1.142 Head Dia.
	Int	1998-02	10-10541	1.339 Head Dia.
Guide	Exh	1998-02	30-8157	2.130 OAL. 0.436 O.D.
	Int	1998-02	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Spring	Exh	1998-02	32-2412	2.188 Free Length. OEM # 14762-PAA-010
	Int	1998-02	32-2406	2.011 Free Length. OEM # 14761-PAA-010
Keeper	Both	1998-02	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	1998-02	38-592-55	Viton. Metal Clad.
<b>LINE 38</b>	<b>2259cc (2.3L) DOHC 16V H23A1</b>		<b>1992-96 L4</b>	<b>BORE - 87mm/3.40"</b>
Valve	Exh	1992-96	10-10207	1.142 Head Dia. 0.2579 Stem
	Int	1992-96	10-10206	1.339 Head Dia. 0.2592 Stem
Guide	Exh	1992-96	30-8581	1.695 OAL. 0.4765 OD
	Int	1992-96	30-8580	1.535 OAL. 0.4755 OD
Keeper	Both	1992-96	34-234	1 Groove. OEM # 14781-551-000
Valve Stem Seal	Both	1992-96	38-569-45	Viton. Metal Clad. 0.260 x 0.476
<b>LINE 39</b>	<b>2300cc (2.3L) DOHC 16V K23A1 Turbo</b>		<b>2007-13 L4</b>	<b>BORE - 86mm/3.385"</b>
Valve	Exh	2007-12	10-03032	1.181 Head Dia. 0.2148 Stem
	Int	2007-12	10-03031	1.378 Head Dia. 0.2148 Stem
Guide	Exh	2007-12	30-3137	1.790 OAL 0.2173 I.D.
	Int	2007-12	30-3136	1.630 OAL 0.2173 I.D.
Keeper	Both	2007-12	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2007-12	38-592-55	Viton. Metal Clad
<b>LINE 40</b>	<b>2354cc (2.4L) DOHC 16V J24, K24A/Z</b>		<b>2002-16 L4</b>	<b>BORE - 87mm/3.43"</b>
Valve	Exh	2002-11	10-03032	1.181 Head Dia. 0.2148 Stem
	Exh	2008-15	10-13359	1.220 Head Dia. 0.214 Stem.
	Int	2002-11	10-03031	1.378 Head Dia. 0.2148 Stem
Guide	Int	2008-15	10-13358	1.417 Head Dia. 0.214 Stem.
	Exh	2002-15	30-3137	1.790 OAL 0.2173 I.D.
	Int	2002-15	30-3136	1.630 OAL 0.2173 I.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 40</b>	<b>2354cc (2.4L) DOHC 16V J24, K24A/Z</b>			<b>2002-16 L4</b>	<b>BORE - 87mm/3.43"</b>
Keeper	Both	2002-15	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2002-15	38-592-55	Viton. Metal Clad.	
<b>LINE 41</b>	<b>2451cc (2.5L) SOHC 20V G25A</b>			<b>1992-98 L5</b>	<b>BORE - 85mm/3.35"</b>
Valve	Int	1992-98	10-10197	1.339 Head Dia.	
Guide	Exh	1992-98	30-8157	2.130 OAL. 0.436 O.D.	
	Int	1992-98	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Keeper	Int	1992-98	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1992-98	38-592-55	Viton. Metal Clad.	
<b>LINE 42</b>	<b>2494cc (2.5L) SOHC 24V C25A</b>			<b>1986-87 V6</b>	<b>BORE - 84mm/3.31"</b>
Valve	Int	1986-87	10-10195	1.299 Head Dia.	
Guide	Exh	1986-87	30-8154	2.086 OAL	
	Int	1986-87	30-8153	1.850 OAL	
Keeper	Both	1986-87	34-235	1 Groove. OEM # 14781-551-000	
Valve Stem Seal	Exh	1986-87	38-569-45	Viton. Metal Clad	
	Exh	1986-87	38-965-45	Viton. Ring And Spring.	
	Int	1986-87	38-976-45	Viton. Metal Clad.	
<b>LINE 43</b>	<b>2559cc (2.6L) SOHC 4ZE1 (Isuzu)</b>			<b>1994-97 L4</b>	<b>BORE - 92.6mm/3.60"</b>
Valve	Exh	1994-97	10-10221S	1.453 Head Dia.	
	Int	1994-97	10-10219	1.736 Head Dia.	
Valve Seat Insert	Exh	1994-97	21-1625-54	1.329 I.D. 1-5/8 O.D. 0.280 Depth.	
	Int	1994-97	21-1812-51	1.530T I.D. 1-13/16 O.D. 0.307 Depth.	
Guide	Exh	1994-97	30-7714	2.160 OAL. +2 O/S Avail.	
	Int	1994-97	30-7713	1.810 OAL. +2 O/S Avail.	
Spring	Both	1994-97	32-1310	1.900 Free Length. OEM # 8-94259-483-0	
Keeper	Both	1994-97	34-819	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1994-97	38-962-45	Viton. Ring And Spring	
<b>LINE 44</b>	<b>2675cc (2.7L) SOHC 24V C27A</b>			<b>1987-97 V6</b>	<b>BORE - 87mm/3.42"</b>
Valve	Exh	1996-97	10-10741S	1.084 Head Dia.	
	Int	1987-97	10-10195	1.299 Head Dia.	
Guide	Exh	1987-97	30-8154	2.086 OAL	
	Int	1987-90	30-8153	1.850 OAL	
	Int	1995-97	30-8156	1.770 OAL	
Keeper	Both	1987-97	34-235	1 Groove. OEM # 14781-551-000	
Lifter	Both	1987-90	36-6033	Hydraulic. Legend	
Valve Stem Seal	Both	1987-97	38-965-45	Viton. Ring And Spring.	
	Exh	1987-90	38-569-45	Viton. Metal Clad	
	Int	1987-97	38-976-45	Viton. Metal Clad.	
<b>LINE 45</b>	<b>2977cc (3.0L) DOHC 24V C30A VTEC</b>			<b>1991-02 V6</b>	<b>BORE - 90mm/3.54"</b>
Guide	Exh	1991-02	30-8157	2.130 OAL. 0.436 O.D.	
	Int	1991-02	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Valve Stem Seal	Both	1991-02	38-592-55	Viton. Metal Clad.	
<b>LINE 46</b>	<b>2997cc (3.0L) SOHC 24V J30A VTEC</b>			<b>1997-07 V6</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1997-02	10-10542	1.142 Head Dia.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 46</b>	<b>2997cc (3.0L) SOHC 24V J30A VTEC</b>		<b>1997-07 V6</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	2003-07	10-10779	1.181 Head Dia.
	Int	1997-02	10-10541	1.339 Head Dia.
	Int	2003-07	10-10778	1.378 Head Dia.
Guide	Exh	1997-07	30-8157	2.130 OAL. 0.436 O.D.
	Int	1997-07	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Spring	Int	1997-99	32-2400	2.001 Free Length
Keeper	Both	1997-07	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	1997-07	38-592-55	Viton. Metal Clad
<b>LINE 47</b>	<b>2997cc (3.0L) SOHC 24V Hybrid JNA1</b>		<b>2005-07 V</b>	<b>BORE - 86mm</b>
Guide	Exh	2005-07	30-8157	2.130 OAL. 0.436 O.D.
	Int	2005-07	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Keeper	Both	2005-07	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2005-07	38-592-55	Viton. Metal Clad.
<b>LINE 48</b>	<b>3165cc (3.2L) SOHC 24V 6VD1 (Isuzu) Vin V</b>		<b>1994-97 V6</b>	<b>BORE - 93.4mm/3.68"</b>
Valve	Exh	1994-97	10-10503	1.181 Head Dia.
	Int	1994-97	10-10502	1.339 Head Dia.
Valve Seat Insert	Exh	1994-97	21-1312-66	1.020T I.D. 1-5/16 O.D. 0.258 Depth
	Int	1994-97	21-1437-67	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Both	1994-97	30-8255	1.775 OAL
Spring	Both	1997-97	32-04030	1.97 OAL
Keeper	Both	1994-97	34-5018	1 Round Groove
Lifter	Both	1994-97	36-2254	SLX, Passport. Hydraulic
Valve Stem Seal	Both	1994-97	38-520-45	Viton. Metal Clad.
<b>LINE 49</b>	<b>3165cc (3.2L) DOHC 24V 6VD1W (Isuzu)</b>		<b>1998-02 V6</b>	<b>BORE - 93.4mm/3.68"</b>
Valve	Exh	1998-02	10-10740	1.142 Head Dia.
	Int	1998-02	10-10739	1.338 Head Dia.
Guide	Both	1998-02	30-8255	1.775 OAL
Keeper	Both	1998-02	34-5018	1 Round Groove
Lifter	Both	1998-02	36-2291	Hydraulic Bucket
Valve Stem Seal	Both	1998-02	38-520-45	Viton. Metal Clad.
<b>LINE 50</b>	<b>3179cc (3.2L) DOHC 24V C32B VTEC</b>		<b>1997-05 V6</b>	<b>BORE - 93.0mm/3.66"</b>
Valve Stem Seal	Both	1997-05	38-592-55	Viton. Metal Clad
<b>LINE 51</b>	<b>3206cc (3.2L) SOHC 24V C32A</b>		<b>1991-98 V6</b>	<b>BORE - 90mm/3.54"</b>
Valve	Exh	1991-98	10-10437	1.104 Head Dia.
	Int	1991-98	10-10436	1.299 Head Dia. L & LS Models
Guide	Exh	1991-98	30-8157	2.130 OAL. 0.436 O.D.
	Int	1991-98	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Keeper	Both	1991-98	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	1991-98	38-592-55	Viton. Metal Clad.
<b>LINE 52</b>	<b>3210cc (3.2L) SOHC 24V J32A VTEC</b>		<b>1999-08 V6</b>	<b>BORE - 90mm/3.50"</b>
Valve	Exh	1999-03	10-10542	1.142 Head Dia.
	Exh	2000-08	10-10779	1.181 Head Dia.
	Int	1999-03	10-10541	1.339 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 52</b>	<b>3210cc (3.2L) SOHC 24V J32A VTEC</b>			<b>1999-08 V6</b>	<b>BORE - 90mm/3.50"</b>
Valve	Int	2000-08	<b>10-10778</b>	1.378 Head Dia.	
Guide	Exh	1999-08	<b>30-8157</b>	2.130 OAL. 0.436 O.D.	
	Int	1999-08	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Keeper	Both	1999-08	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1999-08	<b>38-592-55</b>	Viton. Metal Clad	
<b>LINE 53</b>	<b>3471cc (3.5L) SOHV 24V J35A, J35Z1 VTEC</b>			<b>1999-16 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	1999-01	<b>10-10542</b>	1.142 Head Dia.	
	Exh	2001-15	<b>10-10779</b>	1.181 Head Dia.	
	Int	1999-01	<b>10-10541</b>	1.339 Head Dia.	
	Int	2001-11	<b>10-10778</b>	1.378 Head Dia.	
	Int	2007-15	<b>10-13336</b>	1.417 Head Dia.	
Guide	Exh	2001-15	<b>30-8157</b>	2.130 OAL. 0.436 O.D.	
	Int	2001-15	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Keeper	Both	1999-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1999-15	<b>38-592-55</b>	Viton. Metal Clad	
<b>LINE 54</b>	<b>3474cc (3.5L) SOHC 24V C35A1</b>			<b>1996-04 V6</b>	<b>BORE - 90mm/3.54"</b>
Valve	Exh	1996-04	<b>10-10437</b>	1.104 Head Dia.	
	Int	1996-04	<b>10-10436</b>	1.299 Head Dia.	
Guide	Exh	1996-04	<b>30-8157</b>	2.130 OAL. 0.436 O.D.	
	Int	1996-04	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Keeper	Both	1996-04	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	1996-04	<b>38-592-55</b>	Viton. Metal Clad	
<b>LINE 55</b>	<b>3507cc (3.5L) DOHC 24V (Isuzu) 6VE1</b>			<b>1998-99 V6</b>	<b>BORE - 93.4mm/3.67"</b>
Valve	Exh	1998-99	<b>10-10740</b>	1.142 Head Dia.	
	Int	1998-99	<b>10-10739</b>	1.338 Head Dia.	
Guide	Both	1998-99	<b>30-8255</b>	1.775 OAL	
Keeper	Both	1998-99	<b>34-5018</b>	1 Round Groove	
Lifter	Both	1998-99	<b>36-2291</b>	SLX. Hydraulic Bucket	
Valve Stem Seal	Both	1998-98	<b>38-520-45</b>	Viton. Metal Clad.	
<b>LINE 56</b>	<b>3664cc (3.7L) SOHC J37A1 24V</b>			<b>2007-14 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2007-13	<b>10-10779</b>	1.181 Head Dia.	
	Int	2007-13	<b>10-13336</b>	1.378 Head Dia.	
Guide	Exh	2007-13	<b>30-8157</b>	2.130 OAL. 0.436 O.D.	
	Int	2007-13	<b>30-8158</b>	1.875 OAL. 0.436 O.D. Incl. Lock Ring	
Keeper	Both	2007-13	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2007-13	<b>38-592-55</b>	Viton. Metal Clad	

ENGINE	YEAR	CYL.	LINE NO.
999cc (1.0L) 12V G4HC (Non-USA)	1999-07	L4	1
1086cc (1.1L) SOHC 12V (Non-USA) G4HG	2005-11	L4	2
1468cc (1.5L) SOHC G4AJ (Mitsubishi)	1986-89	L4	3
1468cc (1.5L) SOHC G4DJ (Mitsubishi)	1990-94	L4	4
1495cc (1.5L) SOHC 12V G4AE/EB Alpha I	1993-02	L4	5
1495cc (1.5L) DOHC 16V N G4EK Alpha II	1996-98	L4	6
1591cc (1.6L) DOHC 16V Vin D,E	2012-16	L4	7
1595cc (1.6L) DOHC 16V G4CR (Mitsubishi)	1992-95	L4	8
1595cc (1.6L) DOHC 16V G4ED Alpha II Vin C,N	2001-11	L4	9
1796cc (1.8L) DOHC 16V G4GM	1996-98	L4	10
1797cc (1.8L) DOHC 16V Vin E G4NB	2011-16	L4	11
1836cc (1.8L) DOHC 16V G4CN Vin M (Mits.)	1993-95	L4	12
1975cc (2.0L) DOHC 16V Vin B,D,E,F G4G	1997-12	L4	13
1997cc (2.0L) DOHC 16V G4CP (Mits.) Sirius I 4G63	1992-98	L4	14
1998cc (2.0L) DOHC 16V Vin A,B,D,F,H Theta II	2010-16	L4	15
2350cc (2.4L) SOHC 8V G4CS (Mitsubishi) (S) 4G64	1989-91	L4	16
2351cc (2.4L) DOHC 16V Vin S G4JS Sirius II	1999-05	L4	17
2359cc (2.4L) DOHC 16V G4K Vin 4,A,B,C	2006-16	L4	18
2476cc (2.5L) Diesel Turbo D4B (Mits. 4D56T) SOHC 8V	1999-08	4	19
2493cc (2.5L) DOHC 24V G6BW Delta Vin V	1999-01	V6	20
2656cc (2.7L) DOHC 24V Vin D,F G6B	2001-09	V6	21
2972cc (3.0L) SOHC G6AT 12V (Mitsubishi) Vin T Sigma	1990-98	V6	22
2972cc (3.0L) SOHC 24V XG300	2001-01	V6	23
3342cc (3.3L) DOHC 24V Vin F,G G6D	2006-16	V6	24
3467cc (3.5L) DOHC 24V Vin E Sigma G6CU	2002-06	V6	25
3470cc (3.5L) DOHC 24V Vin G G6D	2010-15	V6	26
3778cc (3.8L) DOHC 24V Vin 3,C,D,E,F,H,J G6D	2006-16	V6	27
5038cc (5.0L) DOHC 32V	2011-16	V8	28

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>999cc (1.0L) 12V G4HC (Non-USA)</b>		<b>1999-07</b>	<b>L4 BORE - 66mm/2.60"</b>
Valve	Exh	1999-07	10-3044	1.067 Head Dia. Atos 1 per Cyl.
	Int	1999-07	10-3043	0.906 Head Dia. Atos 2 per Cyl.
Guide	Both	1999-07	30-3083	1.900 OAL. 0.215 I.D. 0.396 O.D.
<b>LINE 2</b>	<b>1086cc (1.1L) SOHC 12V (Non-USA) G4HG</b>		<b>2005-11</b>	<b>L4 BORE - 67mm/2.64</b>
Valve	Exh	2005-11	10-30103	1.063 Head Dia. Atos
	Int	2005-11	10-30102	0.925 Head Dia. Atos
Guide	Both	2005-11	30-3293	1.889 OAL. 0.2165 I.D. 0.396 O.D.
<b>LINE 3</b>	<b>1468cc (1.5L) SOHC G4AJ (Mitsubishi)</b>		<b>1986-89</b>	<b>L4 BORE - 75.5mm/2.972"</b>
Valve	Exh	1986-89	10-10097	1.181 Head Dia.
	Int	1986-89	10-10098	1.340 Head Dia.
Valve Seat Insert	Exh	1986-89	21-1312-53	0.980T I.D. 1-5/16 O.D. 0.293 Depth
	Int	1986-89	21-1437-57	1.100T I.D. 1-7/16 O.D. 0.293 Depth
Guide	Exh	1986-89	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1986-89	30-7578	1.730 OAL. +2, +6 O/S Avail.
Keeper	Both	1986-89	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1986-89	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1986-89	97-0214	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>1468cc (1.5L) SOHC G4DJ (Mitsubishi)</b>			<b>1990-94 L4 BORE - 75.5mm/2.972"</b>
Valve	Exh	1990-94	10-10097	1.181 Head Dia.
	Int	1990-94	10-10136	1.380 Head Dia.
Guide	Exh	1990-94	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1990-94	30-7578	1.730 OAL. +2, +6 O/S Avail.
Keeper	Both	1990-94	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1990-94	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1990-94	97-0214	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>1495cc (1.5L) SOHC 12V G4AE/EB Alpha I</b>			<b>1993-02 L4 BORE - 75.5mm/2.97"</b>
Valve	Exh	1993-94	10-10548	4/93-94. 1.260 Head Dia. Incl. Turbo. +15 O/S Stem May Be Avail.
	Exh	1995-02	10-10549	1.260 Head Dia. Incl. Turbo (Verna Non-USA)
	Int	1993-02	10-10547	From 4/93. 1.079 Head Dia. Incl. Turbo (Verna Non-USA)
Valve Seat Insert	Exh	1993-02	21-1375-63	1.057T I.D. 1-3/8 O.D. 0.240 Depth
	Int	1993-02	21-1125-53	0.890T I.D. 1-1/8 O.D. 0.237 Depth
Guide	Exh	1993-02	30-8573	2.200 OAL. 0.2765 I.D. 0.4955 O.D.
	Int	1993-02	30-8572	1.690 OAL 0.236 I.D. 0.436 O.D.
Keeper	Both	1993-02	34-5028	1 Round Groove
Lifter	Both	1995-02	36-2254	Hydraulic
Valve Stem Seal	Both	1993-02	38-553-55	Viton. Metal Clad.
<b>LINE 6</b>	<b>1495cc (1.5L) DOHC 16V N G4EK Alpha II</b>			<b>1996-98 L4 BORE - 75.5mm/2.97"</b>
Valve	Exh	1996-98	10-10813	0.984 Head Dia.
	Int	1996-98	10-10812	1.110 Head Dia
Guide	Both	1996-98	30-8147	1.520 OAL. 0.436 O.D.
Lifter	Both	1996-98	36-2289	Hydraulic Bucket
Valve Stem Seal	Both	1996-98	38-553-55	Viton. Metal Clad
<b>LINE 7</b>	<b>1591cc (1.6L) DOHC 16V Vin D,E</b>			<b>2012-16 L4 BORE - 77mm/3.03"</b>
Valve	Exh	2012-15	10-30101	1.024 Head Dia. 0.215 Stem
	Int	2012-15	10-30100	1.240 Head Dia. 0.215 Stem
Guide	Both	2012-15	30-8585	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.
Keeper	Both	2012-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2012-15	38-310-55	Viton. Metal Clad
<b>LINE 8</b>	<b>1595cc (1.6L) DOHC 16V G4CR (Mitsubishi)</b>			<b>1992-95 L4 BORE - 82.3mm/3.24"</b>
Valve	Exh	1992-95	10-10128	1.201 Head Dia.
	Int	1992-95	10-10126	1.339 Head Dia.
Valve Seat Insert	Exh	1992-95	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1992-95	21-1437-68	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Exh	1992-95	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1992-95	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1992-95	34-235	1 Round Groove. Heat Treated
Lifter	Both	1992-95	36-2274	Hydraulic
Valve Stem Seal	Both	1992-95	38-996-55	Viton. Metal Clad.
<b>LINE 9</b>	<b>1595cc (1.6L) DOHC 16V G4ED Alpha II Vin C,N</b>			<b>2001-11 L4 BORE - 76.5mm/3.01"</b>
Valve	Exh	2001-11	10-10813	0.984 Head Dia. 0.234 Stem. (Verna Non-USA)
	Int	2001-11	10-3065	1.146 Head Dia. 0.236 Stem. (Verna Non-USA)

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>1595cc (1.6L) DOHC 16V G4ED Alpha II Vin C,N</b>		<b>2001-11 L4</b>	<b>BORE - 76.5mm/3.01"</b>
Guide	Both	2001-11	30-8147	1.520 OAL 0.436 O.D.
Keeper	Both	2001-11	34-5028	1 Round Groove
Lifter	Both	2001-11	36-2289	Hydraulic Bucket
Valve Stem Seal	Both	2001-11	38-998-45	Viton. Metal Clad. 0.236 x 0.436. (Printed 38-996-55)
<b>LINE 10</b>	<b>1796cc (1.8L) DOHC 16V G4GM</b>		<b>1996-98 L4</b>	<b>BORE - 82mm/3.23"</b>
Valve	Exh	1996-98	10-10724	1.081 Head Dia.
	Int	1996-98	10-10723	1.257 Head Dia.
Guide	Exh	1996-98	30-8567	1.750 OAL
	Int	1996-98	30-8573	2.200 OAL. 0.2765 I.D. 0.4955 O.D.
Lifter	Both	1996-98	36-2288	Hydraulic. Elantra, Tiburon
Valve Stem Seal	Both	1996-98	38-553-55	Viton. Metal Clad.
<b>LINE 11</b>	<b>1797cc (1.8L) DOHC 16V Vin E G4NB</b>		<b>2011-16 L4</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	2011-15	10-30105	0.215 Stem
	Int	2011-15	10-30104	0.215 Stem
Guide	Both	2011-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Keeper	Both	2011-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2011-15	38-6101-55	Viton. Top Hat.
<b>LINE 12</b>	<b>1836cc (1.8L) DOHC 16V G4CN Vin M (Mits.)</b>		<b>1993-95 L4</b>	<b>BORE - 82.2mm/3.24"</b>
Valve	Exh	1993-95	10-10128	1.201 Head Dia.
	Int	1993-95	10-10126	1.339 Head Dia.
Valve Seat Insert	Exh	1993-95	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1993-95	21-1437-68	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Exh	1993-95	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1993-95	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1993-95	34-235	1 Round Groove. Heat Treated
Lifter	Both	1993-95	36-2274	Hydraulic
Valve Stem Seal	Both	1993-95	38-996-55	Viton. Metal Clad.
<b>LINE 13</b>	<b>1975cc (2.0L) DOHC 16V Vin B,D,E,F G4G</b>		<b>1997-12 L4</b>	<b>BORE - 82mm/3.228"</b>
Valve	Exh	1997-01	10-10724	1.081 Head Dia. Tiburon 01. 0.2349 Stem
	Exh	2001-12	10-10817	1.081 Head Dia. Elantra 01. 0.2339 Stem
	Int	1997-01	10-10723	1.257 Head Dia. Tiburon 01. 0.2339 Stem
	Int	2001-12	10-10816	1.257 Head Dia. Elantra 01. 0.2349 Stem
Guide	Exh	1997-12	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	1997-12	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1997-12	34-5028	1 Round Groove
Lifter	Both	1997-01	36-2288	Hydraulic.
	Both	2001-12	36-7090	Hydraulic
Valve Stem Seal		2012-12	38-998-45	Viton. Metal Clad.
	Both	1997-11	38-553-55	Viton. Metal Clad.
<b>LINE 14</b>	<b>1997cc (2.0L) DOHC 16V G4CP (Mits.) Sirius I 4G63</b>		<b>1992-98 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1992-98	10-10128	1.201 Head Dia.
	Int	1992-98	10-10126	1.339 Head Dia.
Valve Seat Insert	Exh	1992-98	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 14</b>	<b>1997cc (2.0L) DOHC 16V G4CP (Mits.) Sirius I 4G63</b>			<b>1992-98 L4 BORE - 85mm/3.346"</b>
Valve Seat Insert	Int	1992-98	21-1437-68	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Exh	1992-98	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1992-98	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1992-98	34-235	1 Round Groove. Heat Treated
Lifter	Both	1992-98	36-2274	Hydraulic
Valve Stem Seal	Both	1992-98	38-996-55	Viton. Metal Clad.
<b>LINE 15</b>	<b>1998cc (2.0L) DOHC 16V Vin A,B,D,F,H Theta II</b>			<b>2010-16 L4 BORE - 86mm/3.39"</b>
Valve	Exh	2010-15	10-13191	1.148 Head Dia. 0.215 Stem
	Exh	2014-15	10-30105	0.215 Stem. Elantra
	Int	2010-15	10-13190	1.378 Head Dia. 0.215 Stem
	Int	2014-15	10-30104	0.215 Stem. Elantra
Guide	Both	2010-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Spring	Both	2010-15	32-5003	1.941 Free Length
Keeper	Both	2010-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2010-15	38-6101-55	Viton. Top Hat
<b>LINE 16</b>	<b>2350cc (2.4L) SOHC 8V G4CS (Mitsubishi) (S) 4G64</b>			<b>1989-91 L4 BORE - 86.5mm/3.40"</b>
Valve	Exh	1989-91	10-10144	1.496 Head Dia.
	Int	1989-91	10-10143	1.811 Head Dia.
Valve Seat Insert	Exh	1989-91	21-1625-56	1.298T I.D. 1-5/8 O.D. 0.317 Depth
	Int	1989-91	21-1875-51	1.575T I.D. 1-7/8 O.D. 0.317 Depth.
Guide	Exh	1989-91	30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1989-91	30-7576	1.735 OAL. +2 O/S Avail.
Spring	Both	1989-91	32-1289	1.960 Free Length
Keeper	Both	1989-91	34-716	1 Round Groove. Heat Treated
Lifter	Both	1989-91	36-6000	Sonata. Hydraulic
Valve Stem Seal	Both	1989-91	38-964-55	Viton. Metal Clad.
Expansion Plug Kit		1989-91	97-0226	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>2351cc (2.4L) DOHC 16V Vin S G4JS Sirius II</b>			<b>1999-05 L4 BORE - 86.5mm/3.41"</b>
Valve	Exh	1999-05	10-10128	1.201 Head Dia.
	Int	1999-05	10-10126	1.339 Head Dia.
Guide	Exh	1999-05	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1999-05	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1999-05	34-235	1 Round Groove. Heat Treated
Lifter	Both	1999-05	36-2274	Hydraulic
Valve Stem Seal	Both	1999-05	38-996-55	Viton. Metal Clad.
<b>LINE 18</b>	<b>2359cc (2.4L) DOHC 16V G4K Vin 4,A,B,C</b>			<b>2006-16 L4 BORE - 88mm/3.46"</b>
Valve	Exh	2006-15	10-13191	1.148 Head Dia. 0.215 Stem
	Int	2006-15	10-13190	1.378 Head Dia. 0.215 Stem
Guide	Both	2006-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Spring	Both	2006-15	32-5003	1.941 Free Length
Keeper	Both	2006-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Lifter	Both	2006-10	36-7108	Hydraulic
Valve Stem Seal	Both	2006-15	38-6101-55	Viton. Top Hat

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 19</b>	<b>2476cc (2.5L) Diesel Turbo D4B (Mits. 4D56T) SOHC 8V</b>			<b>1999-08 4</b>	<b>BORE - 91.1mm/3.59"</b>
Valve	Exh	2005-12	<b>10-3187</b>	1.338 Head Dia. H100	
	Int	2005-12	<b>10-3186</b>	1.578 Head Dia. H100	
Guide	Exh	2005-12	<b>30-7851</b>	2.920 OAL	
	Int	2005-12	<b>30-7850</b>	2.800 OAL	
<b>LINE 20</b>	<b>2493cc (2.5L) DOHC 24V G6BW Delta Vin V</b>			<b>1999-01 V6</b>	<b>BORE - 84mm/3.307"</b>
Valve	Exh	1999-01	<b>10-10809</b>	1.083 Head Dia.	
	Int	1999-01	<b>10-10808</b>	1.260 Head Dia.	
Guide	Exh	1999-01	<b>30-8573</b>	2.200 OAL. 0.2765 I.D. 0.4955 O.D.	
	Int	1999-01	<b>30-8572</b>	1.690 OAL 0.236 I.D. 0.436 O.D.	
Keeper	Both	1999-01	<b>34-5028</b>	1 Round Groove	
Lifter	Both	1999-01	<b>36-2289</b>	Hydraulic	
Valve Stem Seal	Both	1999-01	<b>38-553-55</b>	Viton. Metal Clad.	
<b>LINE 21</b>	<b>2656cc (2.7L) DOHC 24V Vin D,F G6B</b>			<b>2001-09 V6</b>	<b>BORE - 86.7mm/3.41"</b>
Valve	Exh	2001-09	<b>10-10809</b>	1.083 Head Dia.	
	Int	2001-09	<b>10-10808</b>	1.260 Head Dia.	
Guide	Exh	2001-09	<b>30-8573</b>	1.540 OAL 0.436 O.D. 0.236 I.D.	
	Int	2001-09	<b>30-8572</b>	1.690 OAL 0.236 I.D. 0.436 O.D.	
Keeper	Both	2001-09	<b>34-5028</b>	1 Round Groove	
Lifter	Both	2001-09	<b>36-2289</b>	Hydraulic	
Valve Stem Seal	Both	2000-09	<b>38-553-55</b>	Viton. Metal Clad.	
<b>LINE 22</b>	<b>2972cc (3.0L) SOHC G6AT 12V (Mitsubishi) Vin T Sigma</b>			<b>1990-98 V6</b>	<b>BORE - 91.1mm/3.587"</b>
Valve	Exh	1990-98	<b>10-10148</b>	1.378 Head Dia. 0.030 Shorter Than OEM.	
	Exh	1990-98	<b>10-10625</b>	1.378 Head Dia. OEM Length	
	Int	1990-98	<b>10-10147</b>	1.693 Head Dia. 0.030 Shorter Than OEM.	
	Int	1990-98	<b>10-10624</b>	1.693 Head Dia. OEM Length	
Valve Seat Insert	Exh	1990-98	<b>21-1562-69</b>	1.219 I.D. 1-9/16 O.D. 0.317 Depth.	
	Exh	1990-98	<b>21-1562-69N</b>	1.219 I.D. 1-9/16 O.D. 0.317. Non-Magnetic Nickel	
	Int	1990-96	<b>21-1750-54</b>	1.460T I.D. 1-3/4 O.D. 0.316 Depth.	
Guide	Exh	1990-96	<b>30-7577</b>	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring	
	Int	1990-96	<b>30-7576</b>	1.735 OAL. +2 O/S Avail.	
Spring	Both	1990-98	<b>32-1289</b>	1.960 Free Length	
Keeper	Both	1990-98	<b>34-716</b>	1 Round Groove. Heat Treated	
Lifter	Both	1990-98	<b>36-6000</b>	Sonata. Hydraulic	
Valve Stem Seal	Both	1990-98	<b>38-964-55</b>	Viton. Metal Clad.	
<b>LINE 23</b>	<b>2972cc (3.0L) SOHC 24V XG300</b>			<b>2001-01 V6</b>	<b>BORE - 87mm/3.425"</b>
Valve	Exh	2001-01	<b>10-10811</b>	1.201 Head Dia.	
	Int	2001-01	<b>10-10810</b>	1.380 Head Dia.	
Guide	Exh	2001-01	<b>30-8194</b>	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.	
	Int	2001-01	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.	
Keeper	Both	2001-01	<b>34-235</b>	1 Round Groove. Heat Treated	
Lifter	Both	2001-01	<b>36-2274</b>	Hydraulic. XG300	
Valve Stem Seal	Both	2001-01	<b>38-996-55</b>	Viton. Metal Clad	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 24</b>	<b>3342cc (3.3L) DOHC 24V Vin F,G G6D</b>			<b>2006-16 V6 BORE - 92mm/3.62"</b>
Valve	Exh	2006-15	<b>10-13287</b>	1.220 Head Dia. 0.215 Stem
	Int	2006-15	<b>10-13286</b>	1.415 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	2006-15	<b>21-1312-59</b>	1.044 I.D. 1-5/16 O.D. 0.273 Depth. May Need to Machine Depth
	Int	2006-15	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth. May Need to Machine Depth
Guide	Int	2006-15	<b>30-3152</b>	1.655 OAL.
Keeper	Both	2006-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Lifter		2006-11	<b>36-7107</b>	Hydraulic
Valve Stem Seal	Both	2006-15	<b>38-6103-55</b>	Viton. Metal Clad.
<b>LINE 25</b>	<b>3467cc (3.5L) DOHC 24V Vin E Sigma G6CU</b>			<b>2002-06 V6 BORE - 93mm/3.66"</b>
Valve	Exh	2002-06	<b>10-10811</b>	1.201 Head Dia.
	Int	2002-06	<b>10-10810</b>	1.380 Head Dia. 0.260 Stem
Guide	Exh	2002-06	<b>30-8194</b>	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	2002-06	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	2002-06	<b>34-235</b>	1 Round Groove. Heat Treated
Lifter	Both	2002-06	<b>36-2274</b>	Hydraulic
Valve Stem Seal	Both	2002-06	<b>38-996-55</b>	Viton. Metal Clad. 0.260 Stem
<b>LINE 26</b>	<b>3470cc (3.5L) DOHC 24V Vin G G6D</b>			<b>2010-15 V6 BORE - 96mm/3.78"</b>
Valve	Exh	2010-15	<b>10-13287</b>	1.220 Head Dia. 0.215 Stem
	Int	2010-15	<b>10-13286</b>	1.415 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	2010-15	<b>21-1312-59</b>	1.044 I.D. 1-5/16 O.D. 0.273 Depth.
	Int	2010-15	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Int	2010-15	<b>30-3152</b>	1.655 OAL.
Keeper	Both	2010-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2010-15	<b>38-6103-55</b>	Viton. Metal Clad. 0.215 Stem
<b>LINE 27</b>	<b>3778cc (3.8L) DOHC 24V Vin 3,C,D,E,F,H,J G6D</b>			<b>2006-16 V6 BORE - 96mm/3.78"</b>
Valve	Exh	2006-15	<b>10-13287</b>	1.220 Head Dia. 0.215 Stem
	Int	2006-15	<b>10-13286</b>	1.413 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	2006-15	<b>21-1312-59</b>	1.044 I.D. 1-5/16 O.D. 0.273 Depth.
	Int	2006-15	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Both	2006-15	<b>30-3152</b>	1.655 OAL. 0.2168 I.D.
Keeper	Both	2006-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Lifter	Both	2006-11	<b>36-7107</b>	Hydraulic
Valve Stem Seal	Both	2006-15	<b>38-6103-55</b>	Viton. Metal Clad.
<b>LINE 28</b>	<b>5038cc (5.0L) DOHC 32V</b>			<b>2011-16 V8 BORE - 96mm/3.78"</b>
No Parts Available			<b>00</b>	

ENGINE	YEAR	CYL.	LINE NO.
1471cc (1.5L) SOHC 8V 4XC1, 4XC1T Turbo Vin 9,7,K	1985-89	L4	1
1588cc (1.6L) SOHC 12V 4XE1 Vin 6	1991-93	L4	2
1588cc (1.6L) DOHC 16V 4XE1W, 4XE1WT Turbo Vin 5	1989-92	L4	3
1809cc (1.8L) DOHC 16V 4XF1 Vin 8	1992-93	L4	4
1817cc (1.8L) SOHC Diesel 4FB1 Vin B, P	1981-84	L4	5
1817cc (1.8L) SOHC 8V G180Z Vin B, N	1981-85	L4	6
1949cc (1.9L) SOHC 8V G200Z Vin A	1983-87	L4	7
1994cc (2.0L) SOHC 8V Turbo 4ZC1 Vin F	1985-89	L4	8
2195cc (2.2L) 8V (GM) Vin 4, 5, LN2, Gas, Flex	1996-00	L4	9
2196cc (2.2) DOHC 16V MFI X22SE Vin D	1998-03	L4	10
2238cc (2.2L) SOHC Diesel C223 Vin S	1981-87	L4	11
2238cc (2.2L) SOHC Turbo Diesel C223T	1986-87	L4	12
2254cc (2.3L) SOHC Carb. 8V 4ZD1 Vin L	1986-95	L4	13
2254cc (2.3L) SOHC F.I. 8V 4ZD1	1988-89	L4	14
2254cc (2.3L) SOHC 16V (VTEC Honda)	1998-99	L4	15
2.5L 4JA1-T, 2.8L 4JB1-T Diesel	1994-10	L4	16
2559cc (2.6L) SOHC 8V 4ZE1 Vin E	1988-97	L4	17
2770cc (2.8L) DOHC 16V (GM Vortec) Vin 8	2006-06	L4	18
2827cc (2.8L) 12V (GM) LL2 Vin R	1989-91	V6	19
2921cc (2.9L) DOHC 16V Vin 9 (GM)	2007-08	L4	20
2999cc (3.0L) DOHC 16V 4JJ1, 4JK1 Diesel		L4	21
3137cc (3.1L) 12V (GM) Vin Z CPC	1991-94	V6	22
3165cc (3.2L) SOHC 24V 6VD1, V	1992-97	V6	23
3165cc (3.2L) DOHC 24V 6VD1W,2	1992-04	V6	24
3460cc (3.5L) DOHC 20V Vin 6 (GM Vortec)	2006-06	L5	25
3491cc (3.5L) DOHC 24V 6VE1 Vin X, Y	1998-04	V6	26
3651cc (3.7L) DOHC 20V Vin E (GM)	2007-08	L5	27
256 C.I. (4.2L) DOHC 24V (GM Vortec) Vin S	2003-08	L6	28
262 C.I. (4.3L) (GM) Vin W, X (LB4, LF6)	1997-00	V6	29
290 C.I. (4.8L) SOHC 8V 4HE1 Turbo Diesel Dir. Inj.	1998-04	L4	30
5193cc (5.2L) SOHC 4HK1 16V Diesel		L4	31
5328cc (5.3L) OHV 16V (GM Vortec) Vin C,M,P	2003-06	V8	32
435 C.I. (7.1L) SOHC 12V 6HE1 Turbo Diesel Dir. Inj.	1995-98	L6	33
7780cc (7.8L) SOHC 6HK1 24V Diesel	1998-11	L6	34

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1471cc (1.5L) SOHC 8V 4XC1, 4XC1T Turbo Vin 9,7,K</b>			
		<b>1985-89</b>	<b>L4</b>	<b>BORE - 77mm/3.00"</b>

Valve	Exh	1985-89	10-10104	1.220 Head Dia. 0.274 Stem
	Int	1985-89	10-10105	1.415 Head Dia. 0.2742 Stem
Valve Seat Insert	Exh	1985-89	21-1312-61	1.060T I.D. 1-5/16 O.D. 0.275 Depth
	Int	1985-89	21-1562-70	1.180T I.D. 1-9/16 O.D. 0.305 Depth
Guide	Exh	1985-89	30-8015	1.970 OAL. +2 O/S Avail.
	Int	1985-89	30-8014	1.695 OAL. +2 O/S Avail.
Spring	Both	1985-89	32-1522	OEM # 94251079
Keeper	Both	1985-89	34-5001	1 Round Groove
Valve Stem Seal	Both	1985-89	38-980-45	Viton. Metal Clad.
Expansion Plug Kit		1985-89	97-0214	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 2</b>	<b>1588cc (1.6L) SOHC 12V 4XE1 Vin 6</b>			
		<b>1991-93</b>	<b>L4</b>	<b>BORE - 80mm/3.15"</b>

Valve Seat Insert	Exh	1991-93	21-1375-51	1.060T I.D. 1-3/8O.D. 0.280 Depth
	Int	1991-93	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
Guide	Exh	1991-93	30-8255	1.775 OAL

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 2</b>	<b>1588cc (1.6L) SOHC 12V 4XE1 Vin 6</b>			<b>1991-93 L4 BORE - 80mm/3.15"</b>
Guide	Int	1991-93	<b>30-8189</b>	1.650 OAL
Keeper	Both	1991-93	<b>34-5018</b>	1 Round Groove
Valve Stem Seal	Both	1991-93	<b>38-520-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1991-93	<b>97-168</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>1588cc (1.6L) DOHC 16V 4XE1W, 4XE1WT Turbo Vin 5</b>			<b>1989-92 L4 BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1989-92	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
	Int	1989-92	<b>21-1312-52</b>	1.060T I.D. 1-5/16 O.D. 0.240 Depth
Guide	Exh	1989-92	<b>30-8255</b>	1.775 OAL
	Int	1989-92	<b>30-8189</b>	1.650 OAL
Keeper	Both	1989-91	<b>34-5018</b>	1 Round Groove
Valve Stem Seal	Both	1989-92	<b>38-520-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1989-92	<b>97-168</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 4</b>	<b>1809cc (1.8L) DOHC 16V 4XF1 Vin 8</b>			<b>1992-93 L4 BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1992-93	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
	Int	1992-93	<b>21-1312-52</b>	1.060T I.D. 1-5/16 O.D. 0.240 Depth
Guide	Exh	1992-93	<b>30-8255</b>	1.775 OAL.
	Int	1992-93	<b>30-8189</b>	1.650 OAL.
Keeper	Both	1992-93	<b>34-5018</b>	1 Round Groove
Valve Stem Seal	Both	1992-93	<b>38-537-45</b>	Viton. Metal Clad.
	Both	1992-93	<b>38-998-45</b>	Viton. Metal Clad.
<b>LINE 5</b>	<b>1817cc (1.8L) SOHC Diesel 4FB1 Vin B, P</b>			<b>1981-84 L4 BORE - 84mm/3.307"</b>
Valve	Exh	1981-84	<b>10-10100S</b>	1.335 Head Dia.
	Int	1981-84	<b>10-10101S</b>	1.535 Head Dia.
Valve Seat Insert	Exh	1981-84	<b>21-1437-64</b>	1.100T I.D. 1-7/16 O.D. 0.227 Depth
	Int	1981-84	<b>21-1625-61</b>	1.305T I.D. 1-5/8 O.D. 0.227 Depth
Guide	Exh	1981-84	<b>30-7714</b>	2.160 OAL. +2 O/S Avail.
	Int	1981-84	<b>30-7713</b>	1.810 OAL. +2 O/S Avail.
Valve Stem Seal	Both	1981-84	<b>38-962-45</b>	Viton. Ring And Spring.
Expansion Plug Kit		1981-84	<b>97-0202</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 6</b>	<b>1817cc (1.8L) SOHC 8V G180Z Vin B, N</b>			<b>1981-85 L4 BORE - 84mm/3.307"</b>
Valve	Exh	1981-84	<b>10-10093</b>	1.337 Head Dia.
	Int	1981-84	<b>10-10094</b>	1.588 Head Dia.
Valve Seat Insert	Exh	1981-84	<b>21-1500-50</b>	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Int	1981-84	<b>21-1750-62</b>	1.323T I.D. 1-3/4 O.D. 0.276 Depth.
Guide	Exh	1981-84	<b>30-7714</b>	2.160 OAL. +2 O/S Avail.
	Int	1981-84	<b>30-7713</b>	1.810 OAL. +2 O/S Avail.
Spring	Both	1981-82	<b>32-1130</b>	1.850 Free Length. Outer
	Both	1981-85	<b>32-1131</b>	1.780 Free Length. Inner
	Both	1983-85	<b>32-1310</b>	1.900 Free Length. OEM # 8-94259-483-0
Keeper	Both	1981-84	<b>34-819</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1981-85	<b>38-962-45</b>	Viton. Ring And Spring.
Expansion Plug Kit		1981-85	<b>97-0202</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 7</b>	<b>1949cc (1.9L) SOHC 8V G200Z Vin A</b>			<b>1983-87 L4 BORE - 87mm/3.40"</b>
Valve	Exh	1983-87	10-10086	1.339 Head Dia. Impulse
	Exh	1983-87	10-10093	1.337 Head Dia. Exc. Impulse.
	Int	1983-87	10-10087	1.673 Head Dia. Impulse
	Int	1983-87	10-10094	1.588 Head Dia. Exc. Impulse.
Valve Seat Insert	Exh	1983-87	21-1500-50	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Int	1983-87	21-1750-62	1.323T I.D. 1-3/4 O.D. 0.276 Depth.
Guide	Exh	1983-87	30-7714	2.160 OAL. +2 O/S Avail.
	Int	1983-87	30-7713	1.810 OAL. +2 O/S Avail.
Spring	Both	1983-87	32-1310	1.900 Free Length. OEM # 8-94259-483-0
Keeper	Both	1983-87	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1983-87	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1983-87	97-0202	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 8</b>	<b>1994cc (2.0L) SOHC 8V Turbo 4ZC1 Vin F</b>			<b>1985-89 L4 BORE - 88mm/3.40"</b>
Valve	Exh	1985-89	10-10220S	1.413 Head Dia.
	Int	1985-89	10-10218	1.663 Head Dia.
Valve Seat Insert	Exh	1985-89	21-1562-66	1.265T I.D. 1-9/16 O.D. 0.280 Depth.
	Int	1985-89	21-1750-51	1.410T I.D. 1-3/4 O.D. 0.280 Depth.
Guide	Exh	1985-89	30-7714	2.160 OAL. +2 O/S Avail.
	Int	1985-89	30-7713	1.810 OAL. +2 O/S Avail.
Spring	Both	1985-89	32-1310	1.900 Free Length. OEM # 8-94259-483-0
Keeper	Both	1985-89	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1985-89	38-962-45	Viton. Ring And Spring.
<b>LINE 9</b>	<b>2195cc (2.2L) 8V (GM) Vin 4, 5, LN2, Gas, Flex</b>			<b>1996-00 L4 BORE - 3.50"/88.9mm</b>
Valve	Exh	1996-97	10-1737	1.457 Head Dia. 5.142 OAL. +3 & +15 O/S Avail.
	Exh	1998-00	10-1903	1.457 Head Dia. 5.000 OAL. 0.2738 Stem Dia. +3, 15 O/S May Be Avail.
	Int	1996-97	10-1736	1.732 Head Dia. 5.465 OAL. +3 & +15 O/S Avail.
	Int	1998-00	10-1902	1.732 Head Dia. 5.285 OAL
Valve Seat Insert	Exh	1996-97	21-1562-66	1.265T I.D. 1-9/16 O.D. 0.280 Depth.
	Int	1996-97	21-1812-55	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
Guide	Both	1998-00	30-3009	2.289 OAL. 0.2763 I.D. +2 O/S Avail.
	Exh	1996-97	30-8535	2.320 OAL. 0.2757 I.D.
Spring	Int	1996-97	30-8536	2.770 OAL. 0.2757 I.D.
	Both	1998-00	32-04018	1.910 OAL, Conical
Keeper	Both	1996-97	32-2212	1.958 Free Length. Conical
	Both	1996-00	34-04644	1 Round Groove
Lifter	Both	1996-00	36-2270	Hydraulic Roller
Valve Stem Seal	Both	1996-97	38-322-45	Viton. Ring And Band.
	Both	1998-00	38-588-45	Viton. Top Hat.
<b>LINE 10</b>	<b>2196cc (2.2) DOHC 16V MFI X22SE Vin D</b>			<b>1998-03 L4 BORE 86.1mm/3.39"</b>
Valve	Exh	1998-03	10-2040S	1.142 Head Dia. Bi-Metallic, Stellite
	Int	1998-03	10-10784	1.260 Head Dia.
Guide	Exh	1998-03	30-3011	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	1998-03	30-3010	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	1998-03	32-2488	1.673 Free Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 10</b>	<b>2196cc (2.2) DOHC 16V MFI X22SE Vin D</b>			<b>1998-03 L4 BORE 86.1mm/3.39"</b>
Keeper	Both	1998-03	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	1998-03	36-7021	Hydraulic
Valve Stem Seal	Both	1998-03	38-1329-45	Viton. Metal Clad.
<b>LINE 11</b>	<b>2238cc (2.2L) SOHC Diesel C223 Vin S</b>			<b>1981-87 L4 BORE - 87.9mm/3.40"</b>
Valve	Exh	1981-87	10-10217	1.339 Head Dia.
	Int	1981-87	10-10216	1.575 Head Dia.
Valve Seat Insert	Exh	1981-87	21-1437-58	1.095T I.D. 1-7/16 O.D. 0.237 Depth
	Int	1981-87	21-1625-55	1.333T I.D. 1-5/8 O.D. 0.237 Depth
Guide	Both	1981-87	30-7656	1.970 OAL
Valve Stem Seal	Both	1981-87	38-962-45	Viton. Ring And Spring.
<b>LINE 12</b>	<b>2238cc (2.2L) SOHC Turbo Diesel C223T</b>			<b>1986-87 L4 BORE - 87.9mm/3.40"</b>
Guide	Both	1986-87	30-7656	1.970 OAL. OEM # 5-11721-016-0
Valve Stem Seal	Both	1986-87	38-962-45	Viton. Ring And Spring.
<b>LINE 13</b>	<b>2254cc (2.3L) SOHC Carb. 8V 4ZD1 Vin L</b>			<b>1986-95 L4 BORE - 89.4mm/3.50"</b>
Valve	Exh	1986-95	10-10220S	1.413 Head Dia.
	Int	1986-95	10-10218	1.663 Head Dia.
Valve Seat Insert	Exh	1986-95	21-1562-66	1.265T I.D. 1-9/16 O.D. 0.280 Depth.
	Int	1986-95	21-1750-51	1.410T I.D. 1-3/4 O.D. 0.280 Depth.
Guide	Exh	1986-95	30-7714	2.160 OAL. +2 O/S Avail.
	Int	1986-95	30-7713	1.810 OAL. +2 O/S Avail.
Spring	Both	1986-95	32-1310	1.900 Free Length. OEM # 8-94259-483-0
Keeper	Both	1986-95	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1986-95	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1986-95	97-139	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 14</b>	<b>2254cc (2.3L) SOHC F.I. 8V 4ZD1</b>			<b>1988-89 L4 BORE - 89.4mm/3.50"</b>
Valve	Exh	1988-89	10-10221S	1.453 Head Dia.
	Int	1988-89	10-10219	1.736 Head Dia.
Valve Seat Insert	Exh	1988-89	21-1625-54	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
	Int	1988-89	21-1812-51	1.530T I.D. 1-13/16 O.D. 0.307 Depth.
Guide	Exh	1988-89	30-7714	2.160 OAL. +2 O/S Avail.
	Int	1988-89	30-7713	1.810 OAL. +2 O/S Avail.
Spring	Both	1988-89	32-1310	1.900 Free Length. OEM # 8-94259-483-0
Keeper	Both	1988-89	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1988-89	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1988-89	97-139	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 15</b>	<b>2254cc (2.3L) SOHC 16V (VTEC Honda)</b>			<b>1998-99 L4 BORE - 86mm/3.39"</b>
Valve	Exh	1998-99	10-10542	1.142 Head Dia.
	Int	1998-99	10-10541	1.339 Head Dia.
Guide	Exh	1998-99	30-8157	2.130 OAL. 0.436 O.D.
	Int	1998-99	30-8158	1.875 OAL. 0.436 O.D. Incl. Lock Ring
Spring	Exh	1998-99	32-2412	2.188 Free Length. OEM # 14762-PAA-010
	Int	1998-99	32-2406	2.011 Free Length. OEM # 14761-PAA-010
Keeper	Both	1998-99	34-5008	1 Round Groove. 0.215 Stem Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>2254cc (2.3L) SOHC 16V (VTEC Honda)</b>			<b>1998-99 L4 BORE - 86mm/3.39"</b>
Valve Stem Seal	Both	1998-99	38-592-55	Viton. Metal Clad.
<b>LINE 16</b>	<b>2.5L 4JA1-T, 2.8L 4JB1-T Diesel</b>			<b>1994-10 L4 BORE - 93,102mm</b>
Valve	Exh	1994-10	10-3223	1.401 Head Dia. OEM # 8942478751
	Int	1994-10	10-3222	1.575 Head Dia. OEM # 8941332751
<b>LINE 17</b>	<b>2559cc (2.6L) SOHC 8V 4ZE1 Vin E</b>			<b>1988-97 L4 BORE - 92.6mm/3.60"</b>
Valve	Exh	1988-97	10-10221S	1.453 Head Dia.
	Int	1988-97	10-10219	1.736 Head Dia.
Valve Seat Insert	Exh	1988-97	21-1625-54	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
	Int	1988-97	21-1812-51	1.530T I.D. 1-13/16 O.D. 0.307 Depth.
Guide	Exh	1988-97	30-7714	2.160 OAL. +2 O/S Avail.
	Int	1988-97	30-7713	1.810 OAL. +2 O/S Avail.
Spring	Both	1988-97	32-1310	1.900 Free Length. OEM # 8-94259-483-0
Keeper	Both	1988-97	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1988-97	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1988-97	97-103B	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 18</b>	<b>2770cc (2.8L) DOHC 16V (GM Vortec) Vin 8</b>			<b>2006-06 L4 BORE - 92.9mm/3.66"</b>
Valve	Exh	2006-06	10-1999	1.201 Head Dia.
	Int	2006-06	10-1998	1.457 Head Dia.
Guide	Both	2006-06	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2006-06	32-04051	1.770 Free Length
Keeper	Both	2006-06	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2006-06	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2006-06	38-354-45	Viton. Top Hat.
<b>LINE 19</b>	<b>2827cc (2.8L) 12V (GM) LL2 Vin R</b>			<b>1989-91 V6 BORE - 89mm/3.50"</b>
Valve	Exh	1989-91	10-1480	1.425 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1989-91	10-1481	1.718 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1989-91	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1989-91	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both	1989-91	30-9560	Cast Iron Heads. 2.000 OAL. Spiral 0.341 I.D. 30-7560 Plain I.D. Also Avail.
Spring	Both	1989-91	32-1190-D	1.950 Free Length. w/ Damper
Keeper	Both	1989-91	34-555	1 Square Groove. Heat Treated.
Lifter	Both	1989-91	36-2095	Hydraulic
Valve Stem Seal	Both	1989-91	38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Rocker Component	Both	1989-91	40-2864	Rocker Arm. Stamped
Rocker Kit	Both	1989-91	41-2407	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1989-91	42-2948	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Push Rod		1989-91	74-6342	6.163 Length
<b>LINE 20</b>	<b>2921cc (2.9L) DOHC 16V Vin 9 (GM)</b>			<b>2007-08 L4 BORE - 95.5mm/3.76"</b>
Valve	Exh	2007-08	10-13046	1.323 Head Dia.
	Int	2007-08	10-13179	1.525 Head Dia.
Guide	Both	2007-08	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2007-08	32-5001	1.729 Free Length. Conical



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>2921cc (2.9L) DOHC 16V Vin 9 (GM)</b>			<b>2007-08 L4 BORE - 95.5mm/3.76"</b>
Keeper	Both	2007-08	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2007-08	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2007-08	38-6995-45	Viton. Top Hat.
<b>LINE 21</b>	<b>2999cc (3.0L) DOHC 16V 4JJ1, 4JK1 Diesel</b>			<b>L4 BORE - 3.76"/95.4mm</b>
Valve	Exh		10-3201	1.183 Head Dia. NPR Eco-Max (Mexico Elf 200-300). OEM # 8980169741
	Int		10-3200	1.300 Head Dia. NPR Eco-Max (Mexico Elf 200-300). OEM # 8980169730
<b>LINE 22</b>	<b>3137cc (3.1L) 12V (GM) Vin Z CPC</b>			<b>1991-94 V6 BORE - 89mm/3.50"</b>
Valve	Exh	1991-94	10-1480	1.425 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int	1991-94	10-1481	1.718 Head Dia. +3, +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1991-94	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1991-94	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both	1991-94	30-8112	2.085 OAL. Aluminum Head. w/ Snap Ring. +2 O/S Avail.
	Both	1991-94	30-9560	2.000 OAL. Spiral I.D. 30-7560 Plain I.D. Also Avail.
Spring	Both	1991-94	32-1268	2.110 Free Length
Keeper	Both	1991-94	34-555	1 Square Groove. Heat Treated.
Lifter	Both	1991-94	36-2095	Hydraulic
Valve Stem Seal	Both	1992-94	38-830-45	Viton. Ring And Band.
	Int	1991-91	38-827-45	Viton. Metal Clad.
Rocker Component	Both	1991-94	40-2864	Rocker Arm. Stamped
Rocker Kit	Both	1991-94	41-2407	1 40-2864, 1 42-1720 10mm Nut, 1 42-1721 Smooth Ball
Rocker Component		1991-94	42-2948	Rocker Stud. Adjustable. Use w/ 42-1720 Adj. Nut
Push Rod		1991-94	74-6342	6.163 Length
<b>LINE 23</b>	<b>3165cc (3.2L) SOHC 24V 6VD1, V</b>			<b>1992-97 V6 BORE - 93.4mm/3.60"</b>
Valve	Exh	1992-97	10-10503	1.181 Head Dia.
	Int	1992-97	10-10502	1.339 Head Dia.
Valve Seat Insert	Exh	1992-97	21-1312-66	1.020T I.D. 1-5/16 O.D. 0.258 Depth
	Int	1992-97	21-1437-67	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Both	1992-97	30-8255	1.775 OAL
Spring	Both	1992-97	32-04030	1.970 OAL
Keeper	Both	1992-97	34-5018	1 Round Groove
Lifter	Both	1992-97	36-2254	Hydraulic
Valve Stem Seal	Both	1992-97	38-520-45	Viton. Metal Clad.
<b>LINE 24</b>	<b>3165cc (3.2L) DOHC 24V 6VD1W,2</b>			<b>1992-04 V6 BORE - 93.4mm/3.60"</b>
Valve	Exh	1998-04	10-10740	1.142 Head Dia.
	Int	1998-04	10-10739	1.338 Head Dia.
Valve Seat Insert	Exh	1992-95	21-1312-66	1.020T I.D. 1-5/16 O.D. 0.258 Depth
	Int	1992-95	21-1437-67	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Both	1992-04	30-8255	1.775 OAL.
Spring	Both	1992-04	32-04030	1.970 OAL
Keeper	Both	1992-04	34-5018	1 Round Groove
Lifter	Both	1998-04	36-2291	Hydraulic Bucket
Valve Stem Seal	Both	1992-95	38-520-45	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 25</b>	<b>3460cc (3.5L) DOHC 20V Vin 6 (GM Vortec)</b>			<b>2006-06 L5</b>	<b>BORE - 92.7mm/3.66"</b>
Valve	Exh	2006-06	10-1999	1.201 Head Dia.	
	Int	2006-06	10-1998	1.457 Head Dia.	
Guide	Both	2006-06	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.	
Spring	Both	2006-06	32-04051	1.770 Free Length	
Keeper	Both	2006-06	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2006-06	36-7082	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2006-06	38-354-45	Viton. Top Hat.	
<b>LINE 26</b>	<b>3491cc (3.5L) DOHC 24V 6VE1 Vin X, Y</b>			<b>1998-04 V6</b>	<b>BORE - 93mm/3.68"</b>
Valve	Exh	1998-04	10-10740	1.142 Head Dia.	
	Int	1998-04	10-10739	1.338 Head Dia.	
Guide	Both	1998-04	30-8255	1.775 OAL. I.D. Must Be Reamed To Size.	
Keeper	Both	1998-04	34-5018	1 Round Groove	
Lifter	Both	1998-04	36-2291	Hydraulic Bucket	
Valve Stem Seal	Both	1998-04	38-520-45	Viton. Metal Clad.	
<b>LINE 27</b>	<b>3651cc (3.7L) DOHC 20V Vin E (GM)</b>			<b>2007-08 L5</b>	<b>BORE - 95.5mm/3.75"</b>
Valve	Exh	2007-08	10-13046	1.323 Head Dia.	
	Int	2007-08	10-13179	1.525 Head Dia.	
Guide	Both	2007-08	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.	
Spring	Both	2007-08	32-5001	1.729 Free Length. Conical	
Keeper	Both	2007-08	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2007-08	36-7082	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2007-08	38-6995-45	Viton. Top Hat.	
<b>LINE 28</b>	<b>256 C.I. (4.2L) DOHC 24V (GM Vortec) Vin S</b>			<b>2003-08 L6</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	2007-08	10-13046	1.323 Head Dia.	
	Exh	2003-06	10-1999	1.201 Head Dia.	
	Int	2007-08	10-13179	1.525 Head Dia.	
	Int	2003-06	10-1998	1.457 Head Dia.	
Guide	Both	2003-08	30-8556	1.735 OAL 0.436 O.D. 0.236 I.D.	
Spring		2007-08	32-5001	1.729 Free Length. Conical	
	Both	2003-06	32-04051	1.770 Free Length	
Keeper	Both	2003-08	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2003-08	36-7082	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2003-06	38-354-45	Viton. Top Hat.	
	Both	2007-08	38-6995-45	Viton. Top Hat.	
Retainer	Both	2003-08	55-6735	Chrome Moly. 0.735 O.D. 6mm Stem	
<b>LINE 29</b>	<b>262 C.I. (4.3L) (GM) Vin W, X (LB4, LF6)</b>			<b>1997-00 V6</b>	<b>BORE - 101.6mm/4.00"</b>
Valve	Exh	1997-00	10-1807	1.500 Head Dia. 4.920 OAL. 1 Groove. OEM # 10168594 or 12550909	
	Int	1997-00	10-1931	1.940 Head Dia. OEM # 10241742 and 10241743	
Spring	Both	1997-00	32-880-D	2.030 Free Length	
Keeper	Both	1997-00	34-555	1 Square Groove. Heat Treated	
Rocker Component	Both	1997-00	40-2736	Rocker Arm, SBC 1.5 Self-Aligning Stamped	
<b>LINE 30</b>	<b>290 C.I. (4.8L) SOHC 8V 4HE1 Turbo Diesel Dir. Inj.</b>			<b>1998-04 L4</b>	<b>BORE - 110.6mm/4.33"</b>
Valve	Exh	1998-04	10-2238	1.654 Head Dia. OEM # 8971891140	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 30</b>	<b>290 C.I. (4.8L) SOHC 8V 4HE1 Turbo Diesel Dir. Inj.</b>			<b>1998-04 L4 BORE - 110.6mm/4.33"</b>
Valve	Int	1998-04	10-2237	1.969 Head Dia. OEM # 8943951131
	Int	1998-04	10-2239	1.830 Head Dia. OEM # 8970338641
Valve Seat Insert	Exh	1998-04	22-1697-1	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720
	Int	1998-04	22-1894-1	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620
	Int	1998-04	22-2013-1	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600
Guide	Both	1998-04	30-3054	0.3547 I.D. 2.365 OAL OEM 8943965980
Valve Stem Seal	Both	1998-04	38-6115-55	Viton. Top Hat. OEM # 8943966092
<b>LINE 31</b>	<b>5193cc (5.2L) SOHC 4HK1 16V Diesel</b>			<b>L4 BORE - 4.53"/115mm</b>
Valve	Exh		10-13122	1.456 Head Dia. 0.312 Stem. N-Series Trucks. (Mexico Elf 400-600). OEM # 8972098763
	Int		10-13121	1.457 Head Dia. 0.313 Stem. N-Series Trucks. (Mexico Elf 400-600). OEM # 8943958822
Guide	Both		30-3101	2.245 OAL. 0.3150 I.D. 0.5526 O.D.
Valve Stem Seal	Both		38-223-55	Viton. Metal Clad.
	Both		38-962-45	Viton. Ring And Spring.
<b>LINE 32</b>	<b>5328cc (5.3L) OHV 16V (GM Vortec) Vin C,M,P</b>			<b>2003-06 V8 BORE - 96mm/3.78"</b>
Valve	Exh	2003-06	10-1935	1.550 Head Dia.
	Exh	2003-06	10-1935S	1.550 Head Dia. Stellite Seat Face LPG
	Int	2005-06	10-13244	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. SG. Nitrided
	Int	2003-04	10-1934	1.890 Head Dia.
Valve Seat Insert	Exh	2003-06	21-1625-64	1.335T I.D. 1-5/8 O.D. 0.420 Depth
	Exh	2003-06	21-1625-64N	1.335T I.D. 1-5/8 O.D. 0.4200 Depth. LPG
	Int	2003-06	21-2062-50	1.750 I.D. 2-1/16 O.D. 0.420 Depth
Spring	Both	2005-06	32-04046	2.126 Free Length. Conical
	Both	2003-04	32-2500	2.080 Free Length. Conical
Keeper	Both	2003-06	34-5005	0.314 Stem. Round Bead in Middle.
Lifter	Both	2003-06	36-2148	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	2003-06	36-2148G	Lifter Guide, Dogbone Type
Valve Stem Seal	Exh	2003-06	38-901-45	Viton. Top Hat
	Int	2003-06	38-900-45	Viton. Top Hat
Retainer	Both	2003-04	55-6103	Chrome Moly. 1.030 O.D. 8mm Stem. Use w/ 32-2500. LS1
Push Rod		2003-06	74-6614	7.397 Length
<b>LINE 33</b>	<b>435 C.I. (7.1L) SOHC 12V 6HE1 Turbo Diesel Dir. Inj.</b>			<b>1995-98 L6 BORE - 4.22"/107.2mm</b>
Valve	Exh	1995-98	10-2238	1.654 Head Dia. OEM # 8943954620
	Int	1995-98	10-2237	1.969 Head Dia. OEM # 8943951131
	Int	1995-98	10-2239	1.830 Head Dia. OEM # 8970338641
Valve Seat Insert	Exh	1995-98	22-1697-1	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720
	Int	1995-98	22-1894-1	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620
	Int	1995-98	22-2013-1	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600
Guide	Both	1995-98	30-3054	0.3547 I.D. 2.365 OAL OEM# 8943965980
Valve Stem Seal	Both	1995-98	38-6115-55	Viton. Top Hat. OEM # 8943966092
<b>LINE 34</b>	<b>7780cc (7.8L) SOHC 6HK1 24V Diesel</b>			<b>1998-11 L6 BORE - 4.53"/115mm</b>
Valve	Exh	1998-11	10-13122	1.456 Head Dia. 0.312 Stem. FSR, FTR, FVR (Non-USA Elf 400-600). OEM # 8972098763

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 34</b>	<b>7780cc (7.8L) SOHC 6HK1 24V Diesel</b>		<b>1998-11 L6</b>	<b>BORE - 4.53"/115mm</b>
Valve	Int	1998-11	<b>10-13121</b>	1.457 Head Dia. 0.313 Stem. FSR, FTR, FVR (Non-USA Elf 400-600). OEM # 8943958822
Guide	Both	1998-11	<b>30-3101</b>	2.245 OAL. 0.3150 I.D. 0.5526 O.D.
Valve Stem Seal	Both	1998-11	<b>38-223-55</b>	Viton. Metal Clad.
	Both	1998-11	<b>38-962-45</b>	Viton. Ring And Spring.

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ENGINE	YEAR	CYL.	LINE NO.
2967cc (3.0L) DOHC 24V VVT	2000-08	V6	1
3590cc (3.6L) DOHC 24V	1987-89	L6	2
3781cc (3.8L) DOHC	1959-67	L6	3
3980cc (4.0L) DOHC 24V	1990-03	L6	4
4235cc (4.2L) DOHC 12V Vin 2,3,N	1964-87	L6	5
5343cc (5.3L) SOHC Vin 0, 8, V, X	1971-92	V12	6
5990cc (6.0L) SOHC	1994-96	V12	7

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>2967cc (3.0L) DOHC 24V VVT</b>		<b>2000-08 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2000-08	<b>10-2246</b>	1.185 Head Dia. 0.215 Stem.
	Int	2000-08	<b>10-2245</b>	1.378 Head Dia. 0.216 Stem.
Guide	Both	2000-08	<b>30-3028</b>	1.455 OAL. 0.2175 I.D.
Keeper	Both	2000-08	<b>34-5023</b>	1 Round Bead. 0.215 Stem
<b>LINE 2</b>	<b>3590cc (3.6L) DOHC 24V</b>		<b>1987-89 L6</b>	<b>BORE - 91mm/3.50"</b>
Valve Seat Insert	Exh	1987-89	<b>21-1375-59</b>	1.050T I.D. 1-3/8 O.D. 0.275 Depth
	Int	1987-89	<b>21-1500-76</b>	1.215T I.D. 1-1/2 O.D. 0.275 Depth
<b>LINE 3</b>	<b>3781cc (3.8L) DOHC</b>		<b>1959-67 L6</b>	<b>BORE - 87mm/3.40"</b>
Valve Seat Insert	Exh	1959-67	<b>21-1750-67</b>	1.380T I.D. 1-3/4 O.D. 0.382 Depth
	Int	1959-67	<b>21-1875-53</b>	1.505T I.D. 1-7/8 O.D. 0.380 Depth
<b>LINE 4</b>	<b>3980cc (4.0L) DOHC 24V</b>		<b>1990-03 L6</b>	<b>BORE - 91mm/3.50"</b>
Valve Seat Insert	Exh	1990-95	<b>21-1375-59</b>	1.050T I.D. 1-3/8 O.D. 0.275 Depth
	Int	1990-95	<b>21-1500-76</b>	1.215T I.D. 1-1/2 O.D. 0.275 Depth
<b>LINE 5</b>	<b>4235cc (4.2L) DOHC 12V Vin 2,3,N</b>		<b>1964-87 L6</b>	<b>BORE - 92mm/3.60"</b>
Valve Seat Insert	Exh	1964-87	<b>21-1750-67</b>	1.380T I.D. 1-3/4 O.D. 0.382 Depth
	Int	1964-79	<b>21-1875-53</b>	1.505T I.D. 1-7/8 O.D. 0.380 Depth
	Int	1980-87	<b>21-2000-50</b>	1.625T I.D. 2.000 O.D. 0.368 Depth
<b>LINE 6</b>	<b>5343cc (5.3L) SOHC Vin 0, 8, V, X</b>		<b>1971-92 V12</b>	<b>BORE - 90mm/3.50"</b>
Valve Seat Insert	Exh	1971-81	<b>21-1500-71</b>	1.240 I.D. 1-1/2 O.D. 0.317 Depth.
	Exh	1982-92	<b>21-1562-75</b>	1.200T I.D. 1-9/16 O.D. 0.293 Depth
	Int	1971-92	<b>21-1750-63</b>	1.410T I.D. 1-3/4 O.D. 0.315 Depth
<b>LINE 7</b>	<b>5990cc (6.0L) SOHC</b>		<b>1994-96 V12</b>	<b>BORE - 89mm/3.54"</b>
Valve Seat Insert	Exh	1994-95	<b>21-1562-75</b>	1.200T I.D. 1-9/16 O.D. 0.293 Depth
	Int	1994-95	<b>21-1750-63</b>	1.410T I.D. 1-3/4 O.D. 0.315 Depth

ENGINE	YEAR	CYL.	LINE NO.
1493cc (1.5L) DOHC 16V A5D DC	2001-02	L4	1
1591cc (1.6L) DOHC 16V Vin 1,5 Gamma	2010-16	L4	2
1594cc (1.6L) DOHC 16V A6D	2003-05	L4	3
1595cc (1.6L) DOHC 16V (Hyundai) Vin 3	2006-11	L4	4
1597cc (1.6L) SOHC 16V (Mazda) B6 16V Vin 1	1993-95	L4	5
1597cc (1.6L) DOHC 16V (Mazda) B6ZE Vin 3,4	1995-97	L4	6
1793cc (1.8L) DOHC 16V Vin 1 T8D 5BP	1998-04	L4	7
1797cc (1.8L) DOHC 16V Nu	2014-16	L4	8
1839cc (1.8L) DOHC 16V (Mazda) BPD Vin 5	1995-97	L4	9
1975cc (2.0L) DOHC 16V G4GF (Hyundai) Vin1,2	2005-11	L4	10
1998cc (2.0L) SOHC 8V Vin 1,2	1995-96	L4	11
1998cc (2.0L) DOHC 16V Vin 2, U Theta	2010-16	L4	12
1998cc (2.0L) DOHC 16V (Mazda) FE Vin 3	1995-02	L4	13
1999cc (2.0L) DOHC 16V Vin 6 Nu	2012-16	L4	14
2351cc (2.4L) DOHC 16V Vin 6 G4JS (Hyundai)	2001-06	L4	15
2359cc (2.4L) DOHC 16V Theta (HYU)	2006-16	L4	16
2493cc (2.5L) DOHC G6BV 24V	2001-01	V6	17
2656cc (2.7L) DOHC 24V (Hyundai) G6BA	2002-10	V6	18
3342cc (3.3L) DOHC 24V (Hyundai) Vin 1,7	2008-16	V6	19
3470cc (3.5L) DOHC 24V Vin 2,7	2010-13	V6	20
3497cc (3.5L) DOHC 24V 6GCU Vin1 (Hyundai)	2002-06	V6	21
3778cc (3.8L) DOHC 24V (Hyundai)	2006-16	V6	22
5038cc (5.0L) DOHC 32V TAU	2014-16	V8	23

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1493cc (1.5L) DOHC 16V A5D DC</b>			<b>2001-02 L4 BORE - 75.5mm/2.97"</b>
Valve	Exh	2001-02	10-2195	0.980 Head Dia.
	Int	2001-02	10-2194	1.095 Head Dia.
Guide	Both	2001-02	30-8218	1.575 OAL
Keeper	Both	2001-02	34-5023	1 Round Bead. 0.215 Stem
Lifter	Both	2001-02	36-2276	Hydraulic Bucket
Valve Stem Seal	Both	2001-02	38-53-45	Viton. Metal Clad.
<b>LINE 2</b>	<b>1591cc (1.6L) DOHC 16V Vin 1,5 Gamma</b>			<b>2010-16 L4 BORE - 76.5mm/3.01"</b>
Valve	Exh	2010-15	10-30101	1.024 Head Dia. 0.215 Stem
	Int	2010-15	10-30100	1.240 Head Dia. 0.215 Stem
Guide	Both	2010-15	30-8585	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.
Keeper	Both	2010-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2010-15	38-310-55	Viton. Metal Clad
<b>LINE 3</b>	<b>1594cc (1.6L) DOHC 16V A6D</b>			<b>2003-05 L4 BORE - 78mm/3.07"</b>
Valve	Exh	2003-05	10-13039	1.015 Head Dia.
	Int	2003-05	10-13038	1.150 Head Dia.
Valve Seat Insert	Exh	2003-05	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	2003-05	21-1250-61	0.976 I.D. 1-1/4 O.D. 0.180 Depth
Guide	Both	2003-05	30-8218	1.575 OAL. 0.2170 I.D.
Keeper	Both	2003-05	34-5023	1 Round Bead. 0.215 Stem
Lifter	Both	2003-05	36-2276	Hydraulic Bucket
Valve Stem Seal	Both	2003-05	38-53-45	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 4</b>	<b>1595cc (1.6L) DOHC 16V (Hyundai) Vin 3</b>			<b>2006-11 L4</b>	<b>BORE - 76.5mm/3.01</b>
Valve	Exh	2006-11	10-10813	0.984 Head Dia.	
	Int	2006-11	10-3065	1.146 Head Dia.	
Guide	Both	2006-11	30-8147	1.520 OAL. 0.436 O.D.	
Keeper	Both	2006-11	34-5028	1 Round Groove	
Lifter	Both	2006-11	36-2276	Hydraulic Bucket	
Valve Stem Seal	Both	2006-11	38-553-55	Viton. Metal Clad.	
<b>LINE 5</b>	<b>1597cc (1.6L) SOHC 16V (Mazda) B6 16V Vin 1</b>			<b>1993-95 L4</b>	<b>BORE - 78mm/3.07"</b>
Valve	Exh	1993-95	10-10513	0.927 Head Dia.	
	Int	1993-95	10-10512	1.161 Head Dia.	
Guide	Both	1993-95	30-8173	1.775 OAL. Incl. Lock Ring	
Lifter	Both	1993-95	36-2254	Hydraulic	
Valve Stem Seal	Both	1993-95	38-998-45	Viton. Metal Clad.	
Expansion Plug Kit		1993-95	97-0222	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 6</b>	<b>1597cc (1.6L) DOHC 16V (Mazda) B6ZE Vin 3,4</b>			<b>1995-97 L4</b>	<b>BORE - 78mm/3.07"</b>
Valve	Exh	1995-97	10-10159	1.031 Head Dia. 0.235 Stem	
	Int	1995-97	10-10157	1.220 Head Dia. 0.2354 Stem	
Valve Seat Insert	Exh	1995-97	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Int	1995-97	21-1250-61	0.976 I.D. 1-1/4 O.D. 0.180 Depth	
Guide	Exh	1996-97	30-8186	1.920 OAL. Incl. Lock Ring	
	Int	1996-97	30-8187	1.920 OAL. Incl. Lock Ring. Tapered End	
Lifter	Both	1995-97	36-2276	Hydraulic	
Valve Stem Seal	Both	1995-97	38-998-45	Viton. Metal Clad.	
Expansion Plug Kit		1995-97	97-0222	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 7</b>	<b>1793cc (1.8L) DOHC 16V Vin 1 T8D 5BP</b>			<b>1998-04 L4</b>	<b>BORE - 83mm/3.29"</b>
Valve	Exh	1998-04	10-2197	1.063 Head Dia.	
	Int	1998-04	10-2196	1.240 Head Dia.	
Guide	Both	1998-04	30-8173	1.775 OAL. 0.436 O.D.	
Lifter	Both	1998-04	36-2276	Hydraulic Bucket	
Valve Stem Seal	Both	1998-04	38-998-45	Viton. Metal Clad.	
<b>LINE 8</b>	<b>1797cc (1.8L) DOHC 16V Nu</b>			<b>2014-16 L4</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	2014-15	10-30105	0.215 Stem	
	Int	2014-15	10-30104	0.215 Stem.	
Guide	Both	2014-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.	
Keeper	Both	2014-16	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2014-15	38-6101-55	Viton. Top Hat	
<b>LINE 9</b>	<b>1839cc (1.8L) DOHC 16V (Mazda) BPD Vin 5</b>			<b>1995-97 L4</b>	<b>BORE - 83mm/3.29"</b>
Valve	Exh	1995-97	10-10235	1.103 Head Dia. 3.997 OAL	
	Int	1995-97	10-10234	1.298 Head Dia. 3.990 OAL	
Valve Seat Insert	Exh	1995-97	21-1250-56	0.905T I.D. 1-1/4 O.D. 0.230 Depth.	
	Int	1995-97	21-1437-74	1.162 I.D. 1-7/16 O.D. 0.230 Depth.	
Guide	Both	1995-97	30-8173	1.775 OAL. Incl. Lock Ring	
Spring	Exh	1995-97	30-8174	1.808 OAL. 0.436 O.D. Incl. Lock Ring	
	Both	1995-97	32-1430	1.830 Free Length	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>1839cc (1.8L) DOHC 16V (Mazda) BPD Vin 5</b>			<b>1995-97 L4 BORE - 83mm/3.29"</b>
Lifter	Both	1995-97	36-2276	Hydraulic Bucket
Valve Stem Seal	Both	1995-97	38-998-45	Viton. Metal Clad.
Expansion Plug Kit		1995-97	97-144	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 10</b>	<b>1975cc (2.0L) DOHC 16V G4GF (Hyundai) Vin1,2</b>			<b>2005-11 L4 BORE - 82mm/3.23"</b>
Valve	Exh	2005-11	10-10817	1.081 Head Dia.
	Int	2005-11	10-10816	1.257 Head Dia.
Guide	Exh	2005-11	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	2005-11	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	2005-11	34-5028	1 Round Groove
Valve Stem Seal	Both	2005-11	38-553-55	Viton. Metal Clad.
<b>LINE 11</b>	<b>1998cc (2.0L) SOHC 8V Vin 1,2</b>			<b>1995-96 L4 BORE - 86mm/3.39"</b>
Valve	Exh	1995-96	10-10237	1.417 Head Dia.
	Int	1995-96	10-10236	1.732 Head Dia.
Valve Seat Insert	Exh	1995-96	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth.
	Int	1995-96	21-1812-50	1.490T I.D. 1-13/16 O.D. 0.307 Depth.
Guide	Both	1995-96	30-8172	2.177 OAL. +2 O/S Avail. Incl. Lock Ring
Spring	Both	1995-96	32-1368	1.720 Free Length. Inner
	Both	1995-96	32-1370	1.958 Free Length. Outer
Keeper	Both	1995-96	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1995-96	38-966-55	Viton. Metal Clad.
<b>LINE 12</b>	<b>1998cc (2.0L) DOHC 16V Vin 2, U Theta</b>			<b>2010-16 L4 BORE - 86mm/3.39"</b>
Valve	Exh	2010-15	10-13191	1.148 Head Dia. 0.215 Stem
	Int	2010-15	10-13190	1.378 Head Dia. 0.215 Stem
Guide	Both	2010-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
	Both	2010-15	32-5003	1.941 Free Length
Spring	Both	2010-15	32-5003	1.941 Free Length
Keeper	Both	2010-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2010-15	38-6101-55	Viton. Top Hat.
<b>LINE 13</b>	<b>1998cc (2.0L) DOHC 16V (Mazda) FE Vin 3</b>			<b>1995-02 L4 BORE - 86mm/3.39"</b>
Valve	Exh	1995-02	10-10815	1.140 Head Dia.
	Int	1995-02	10-10814	1.327 Head Dia.
Guide	Exh	1995-02	30-8174	1.808 OAL. 0.436 O.D. Incl. Lock Ring
	Int	1995-02	30-8187	1.920 OAL. Incl. Lock Ring. Tapered End
Lifter	Both	1995-02	36-2292	Hydraulic
Valve Stem Seal	Both	1995-02	38-998-45	Viton. Metal Clad.
<b>LINE 14</b>	<b>1999cc (2.0L) DOHC 16V Vin 6 Nu</b>			<b>2012-16 L4 BORE</b>
Valve	Exh	2012-15	10-30105	0.215 Stem
	Int	2012-15	10-30104	0.215 Stem.
Guide	Both	2012-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Keeper	Both	2012-15	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2012-15	38-6101-55	Viton. Top Hat
<b>LINE 15</b>	<b>2351cc (2.4L) DOHC 16V Vin 6 G4JS (Hyundai)</b>			<b>2001-06 L4 BORE - 86.5mm/3.41"</b>
Valve	Exh	2001-06	10-10128	1.201 Head Dia.
	Int	2001-06	10-10126	1.339 Head Dia.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>2351cc (2.4L) DOHC 16V Vin 6 G4JS (Hyundai)</b>			<b>2001-06 L4 BORE - 86.5mm/3.41"</b>
Guide	Exh	2001-06	<b>30-8194</b>	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	2001-06	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	2001-06	<b>34-235</b>	1 Round Groove. Heat Treated
Lifter	Both	2001-06	<b>36-2274</b>	Hydraulic
Valve Stem Seal	Both	2001-06	<b>38-996-55</b>	Viton. Metal Clad.
<b>LINE 16</b>	<b>2359cc (2.4L) DOHC 16V Theta (HYU)</b>			<b>2006-16 L4 BORE - 88mm/3.46"</b>
Valve	Exh	2006-15	<b>10-13191</b>	1.148 Head Dia. 0.215 Stem
	Int	2006-15	<b>10-13190</b>	1.378 Head Dia. 0.215 Stem
Guide	Both	2006-15	<b>30-3154</b>	1.740 OAL. 0.2168 I.D. 0.4358 O.D.
Spring	Both	2006-15	<b>32-5003</b>	1.941 Free Length
Keeper	Both	2006-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Lifter	Both	2006-10	<b>36-7108</b>	Hydraulic
Valve Stem Seal	Both	2006-15	<b>38-6101-55</b>	Viton. Top Hat.
<b>LINE 17</b>	<b>2493cc (2.5L) DOHC G6BV 24V</b>			<b>2001-01 V6 BORE - 80mm/3.15"</b>
Valve	Exh	2001-01	<b>10-10809</b>	1.083 Head Dia.
	Int	2001-01	<b>10-10808</b>	1.260 Head Dia.
Guide	Exh	2001-01	<b>30-8573</b>	2.200 OAL. 0.2765 I.D. 0.4955 O.D.
	Int	2001-01	<b>30-8572</b>	1.690 OAL 0.236 I.D. 0.436 O.D.
Keeper	Both	2001-01	<b>34-5028</b>	1 Round Groove
Lifter	Both	2001-01	<b>36-2276</b>	Hydraulic Bucket
Valve Stem Seal	Both	2001-01	<b>38-553-55</b>	Viton. Metal Clad.
<b>LINE 18</b>	<b>2656cc (2.7L) DOHC 24V (Hyundai) G6BA</b>			<b>2002-10 V6 BORE - 86.5mm/3.41"</b>
Valve	Exh	2002-10	<b>10-10809</b>	1.083 Head Dia. Exc. 07-08 Optima, Rondo
	Int	2002-10	<b>10-10808</b>	1.260 Head Dia. Exc. 07-08 Optima, Rondo
Guide	Exh	2002-10	<b>30-8573</b>	1.540 OAL 0.436 O.D. 0.236 I.D.
	Int	2002-10	<b>30-8572</b>	1.690 OAL 0.236 I.D. 0.436 O.D.
Keeper	Both	2002-10	<b>34-5028</b>	1 Round Groove
Lifter	Both	2002-10	<b>36-2276</b>	Hydraulic Bucket. Exc. 07-08 Optima, Rondo
Valve Stem Seal	Both	2002-10	<b>38-553-55</b>	Viton. Metal Clad.
<b>LINE 19</b>	<b>3342cc (3.3L) DOHC 24V (Hyundai) Vin 1,7</b>			<b>2008-16 V6 BORE - 92mm/3.62"</b>
Valve	Exh	2008-15	<b>10-13287</b>	1.220 Head Dia. 0.215 Stem
	Int	2008-15	<b>10-13286</b>	1.413 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	2008-15	<b>21-1312-59</b>	1.044 I.D. 1-5/16 O.D. 0.273 Depth. May Need to Machine Depth
	Int	2008-15	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth. May Need to Machine Depth
Guide	Int	2008-15	<b>30-3152</b>	1.655 OAL.
Keeper	Both	2008-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2008-15	<b>38-6103-55</b>	Viton. Metal Clad. 0.215 Stem
<b>LINE 20</b>	<b>3470cc (3.5L) DOHC 24V Vin 2,7</b>			<b>2010-13 V6 BORE - 92mm/3.62"</b>
Valve	Exh	2010-13	<b>10-13287</b>	1.220 Head Dia. 0.215 Stem
	Int	2010-13	<b>10-13286</b>	1.415 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	2010-13	<b>21-1312-59</b>	1.044 I.D. 1-5/16 O.D. 0.273 Depth.
	Int	2010-13	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Both	2010-13	<b>30-3152</b>	1.655 OAL.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>3470cc (3.5L) DOHC 24V Vin 2,7</b>		<b>2010-13 V6</b>	<b>BORE - 92mm/3.62"</b>
Keeper	Both	2010-13	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2010-13	<b>38-6103-55</b>	Viton. Metal Clad. 0.215 Stem
<b>LINE 21</b>	<b>3497cc (3.5L) DOHC 24V 6GCU Vin1 (Hyundai)</b>		<b>2002-06 V6</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	2002-06	<b>10-10811</b>	1.201 Head Dia.
	Int	2002-06	<b>10-10810</b>	1.380 Head Dia.
Guide	Exh	2002-06	<b>30-8194</b>	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	2002-06	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	2002-06	<b>34-235</b>	1 Round Groove. Heat Treated
Lifter	Both	2002-06	<b>36-2274</b>	Hydraulic
Valve Stem Seal	Both	2002-06	<b>38-996-55</b>	Viton. Metal Clad.
<b>LINE 22</b>	<b>3778cc (3.8L) DOHC 24V (Hyundai)</b>		<b>2006-16 V6</b>	<b>BORE - 96mm/3.78</b>
Valve	Exh	2006-15	<b>10-13287</b>	1.220 Head Dia. 0.215 Stem
	Int	2006-15	<b>10-13286</b>	1.413 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	2006-15	<b>21-1312-59</b>	
	Int	2006-15	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Int	2006-15	<b>30-3152</b>	1.655 OAL.
Keeper	Both	2006-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2006-15	<b>38-6103-55</b>	Viton. Metal Clad
<b>LINE 23</b>	<b>5038cc (5.0L) DOHC 32V TAU</b>		<b>2014-16 V8</b>	<b>BORE - 96mm/3.78"</b>
No Parts Available		2014-16	<b>00</b>	K900

ENGINE	YEAR	CYL.	LINE NO.
1999cc (2.0L) DOHC 16V Turbo	2012-16	L4	1
4009cc (4.0L) SOHC 12V Vin 4	2005-09	V6	2

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1999cc (2.0L) DOHC 16V Turbo</b>			<b>2012-16 L4 BORE - 87.5mm/3.44"</b>
Keeper	Both	2012-16	<b>34-5024</b>	1 Round Groove
Valve Stem Seal	Both	2012-16	<b>38-6105-55</b>	Viton. Top Hat
<b>LINE 2</b>	<b>4009cc (4.0L) SOHC 12V Vin 4</b>			<b>2005-09 V6 BORE - 3.95"/100.4mm</b>
Valve	Exh	2005-09	<b>10-1914</b>	1.535 Head Dia.
	Int	2005-09	<b>10-1913</b>	1.811 Head Dia. 0.275 Stem. 3 Groove
Valve Seat Insert	Int	2005-09	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
	Exh	2005-09	<b>21-1625-54</b>	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
Guide	Both	2005-09	<b>30-8663</b>	1.740 OAL. Incl. Lock Ring
Spring	Both	2005-09	<b>32-2302</b>	1.695 Free Length. Non-Ovate Wire.
Keeper	Both	2005-09	<b>34-281</b>	3 Groove
Lifter	Both	2005-09	<b>36-2271</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2005-09	<b>38-292-45</b>	Viton. Top Hat.
Rocker Component	Both	2005-09	<b>40-1807</b>	Rocker Arm. Cast. OEM # F0TZ6564A
Push Rod	Both	2005-09	<b>74-5471</b>	5.475 Length

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ENGINE	YEAR	CYL.	LINE NO.
1272cc (1.3L) SOHC TC 8V	1976-78	L4	1
1415cc (1.4L) SOHC UC 8V	1979-80	L4	2
1489cc (1.5L) DOHC Z5 16V	1995-98	L4	3
1490cc (1.5L) SOHC E5 8V	1981-86	L4	4
1498cc (1.5L) DOHC 16V Vin Y,Z MZR	2011-14	L4	5
1586cc (1.6L) SOHC 8V NA	1971-77	L4	6
1597cc (1.6L) SOHC B6 & CE16 8V	1986-95	L4	7
1597cc (1.6L) SOHC, DOHC 16V B6/E/T, CE16	1988-95	L4	8
1597cc (1.6L) DOHC 16V ZM	1999-01	L4	9
1796cc (1.8L) SOHC VB 8V	1976-78	L4	10
1839cc (1.8L) SOHC 16V BP012	1990-94	L4	11
1839cc (1.8L) DOHC 16V BP, FP	1990-05	L4	12
1844cc (1.8L) DOHC 24V K8	1992-95	V6	13
1970cc (2.0L) SOHC MA 8V	1979-84	L4	14
1991cc (2.0L) DOHC 16V FS	1993-03	L4	15
1991cc (2.0L) DOHC 16V (Ford) ZETEC	2001-04	L4	16
1998cc (2.0L) SOHC FE/Turbo	1983-87	L4	17
1998cc (2.0L) DOHC 16V SkyActiv	2014-16	L4	18
1998cc (2.0L) SOHC Diesel RF 8V	1984-85	L4	19
1999cc (2.0L) DOHC 16V FSD Vin D,F,G LFX	2004-15	L4	20
2184cc (2.2L) SOHC 8V F2 Carb. & F.I.	1987-93	L4	21
2184cc (2.2L) SOHC 12V 12B F2	1988-92	L4	22
2184cc (2.2L) SOHC 12V Turbo 34D F2	1988-92	L4	23
2255cc (2.3L) SOHC 8V (Ford) Vin A	1994-97	L4	24
2255cc (2.3L) DOHC 24V KJ Vin 2	1995-02	V6	25
2261cc (2.3L) DOHC 16V Vin 3,4,D,L,M,Z	2001-13	L4	26
2488cc (2.5L) DOHC 16V Vin 3	2009-16	L4	27
2497cc (2.5L) DOHC 24V KL Vin 1	1993-02	V6	28
2503cc (2.5L) SOHC 8V (Ford) Vin C	1998-01	L4	29
2544cc (2.5L) DOHC 24V (Ford)	2000-01	V6	30
2555cc (2.6L) SOHC CE26/AM1 (Mitsubishi) 12V	1987-88	L4	31
2605cc (2.6L) SOHC 12V G6 & G60	1989-95	L4	32
2954cc (3.0L) SOHC 18V CE30, JE30, JE39	1988-98	V6	33
2954cc (3.0L) DOHC 24V JE27, JE48 & JE74	1990-96	V6	34
2967cc (3.0L) DOHC 24V (Ford) Vin 1,G	2001-11	V6	35
2983cc (3.0L) OHV 12V (Ford) U, 8U	1994-07	V6	36
3496cc (3.5L) DOHC 24V (Ford)	2007-13	V6	37
3726cc (3.7L) DOHC 24V	2008-15	V6	38
4016cc (4.0L) OHV 12V (Ford) X, 8X, ZZL, VGE4	1991-01	V6	39
4025cc (4.0L) SOHC 12V (Ford) E	2001-10	V6	40

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1272cc (1.3L) SOHC TC 8V</b>		<b>1976-78</b>	<b>L4 BORE - 73mm/2.87"</b>
Valve Seat Insert	Exh	1976-78	21-1375-54	1.022T I.D. 1-3/8 O.D. 0.230 Depth
	Int	1976-78	21-1562-57	1.246T I.D. 1-9/16 O.D. 0.230 Depth
Guide	Both	1976-78	30-9557	2.000 OAL. Spiral I.D. 30-7557 Plain I.D. Also Avail.
Keeper	Exh	1976-78	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1976-78	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1976-78	38-966-55	Viton. Metal Clad.
Expansion Plug Kit		1976-78	97-112	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 2</b>	<b>1415cc (1.4L) SOHC UC 8V</b>		<b>1979-80</b>	<b>L4 BORE - 77mm/3.03"</b>
Valve Seat Insert	Exh	1979-80	21-1375-54	1.022T I.D. 1-3/8 O.D. 0.230 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 2</b>	<b>1415cc (1.4L) SOHC UC 8V</b>			<b>1979-80 L4 BORE - 77mm/3.03"</b>
Valve Seat Insert	Int	1979-80	21-1562-57	1.246T I.D. 1-9/16 O.D. 0.230 Depth
Guide	Both	1979-80	30-8200	1.992 OAL
Keeper	Exh	1979-80	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1979-80	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1979-80	38-962-45	Viton. Ring And Spring.
	Both	1979-80	38-966-55	Viton. Metal Clad.
Expansion Plug Kit		1979-80	97-112	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>1489cc (1.5L) DOHC Z5 16V</b>			<b>1995-98 L4 BORE - 75.3mm/2.97"</b>
Guide	Both	1995-98	30-8587	1.750 OAL
Valve Stem Seal	Both	1995-98	38-592-55	Viton. Metal Clad.
<b>LINE 4</b>	<b>1490cc (1.5L) SOHC E5 8V</b>			<b>1981-86 L4 BORE - 77mm/3.03"</b>
Valve Seat Insert	Exh	1981-86	21-1375-54	1.022T I.D. 1-3/8 O.D. 0.230 Depth
	Int	1981-86	21-1562-57	1.246T I.D. 1-9/16 O.D. 0.230 Depth
Guide	Both	1981-86	30-8200	1.992 OAL
Keeper	Exh	1981-86	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1981-86	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1981-86	38-966-55	Viton. Metal Clad.
Expansion Plug Kit		1987-86	97-0220	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>1498cc (1.5L) DOHC 16V Vin Y,Z MZR</b>			<b>2011-14 L4 BORE - 78mm/3.07"</b>
Guide	Both	2011-14	30-3070	1.535 OAL. 0.217 I.D. 0.435 O.D.
Keeper	Both	2011-13	34-5024	1 Round Groove. 0.215 Stem
Valve Stem Seal	Both	2011-13	38-6105-55	Viton. Top Hat
<b>LINE 6</b>	<b>1586cc (1.6L) SOHC 8V NA</b>			<b>1971-77 L4 BORE - 78mm/3.07"</b>
Valve	Exh	1971-77	10-10060S	1.297 Head Dia.
	Int	1971-77	10-10061	1.656 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1971-77	21-1500-57	1.100T I.D. 1-1/2 O.D. 0.316 Depth.
	Int	1971-77	21-1750-54	1.460T I.D. 1-3/4 O.D. 0.316 Depth.
Guide	Both	1971-77	30-9557	2.000 OAL. w/ Snap Ring
Keeper	Exh	1971-77	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1971-77	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1971-77	38-966-55	Viton. Metal Clad.
<b>LINE 7</b>	<b>1597cc (1.6L) SOHC B6 &amp; CE16 8V</b>			<b>1986-95 L4 BORE - 78mm/3.07"</b>
Valve	Exh	1986-95	10-10155	1.259 Head Dia.
	Int	1986-95	10-10154	1.476 Head Dia.
Valve Seat Insert	Exh	1986-95	21-1437-66	1.120 I.D. 1-7/16 O.D. 0.300 Depth
	Int	1986-95	21-1625-62	1.320 I.D. 1-5/8 O.D. 0.300 Depth.
Guide	Both	1986-95	30-8205	1.990 OAL. 0.2755 I.D.
Spring	Both	1990-92	32-1429	MX3. 1.830 Free Length
Lifter	Both	1986-94	36-2254	Hydraulic
Valve Stem Seal	Both	1986-94	38-997-45	Viton. Metal Clad.
	Both	1988-90	38-998-45	Viton. Metal Clad.
Expansion Plug Kit		1986-94	97-0222	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>1597cc (1.6L) SOHC, DOHC 16V B6/E/T, CE16</b>			<b>1988-95 L4 BORE - 78mm/3.07"</b>
Valve	Exh	1988-95	10-10159	1.031 Head Dia. 0.235 Stem
	Exh	1992-93	10-10513	0.927 Head Dia. 0.235 Stem. SOHC B6 16V
	Int	1988-95	10-10157	1.220 Head Dia. 0.235 Stem
	Int	1992-93	10-10512	1.161 Head Dia. 0.235 Stem. SOHC B6 16V
Valve Seat Insert	Exh	1988-95	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	1988-95	21-1250-61	0.976 I.D. 1-1/4 O.D. 0.180 Depth
Guide	Both	1992-93	30-8173	1.775 OAL. 0.436 O.D. Incl. Lock Ring. SOHC B6 16V
	Exh	1988-95	30-8186	1.920 OAL. Incl. Lock Ring
	Int	1988-95	30-8187	1.920 OAL. Incl. Lock Ring. Tapered End
Lifter	Both	1988-94	36-2254	Hydraulic. 92-94: MX3, 323
	Both	1988-95	36-2276	Hydraulic. 90-93: Miata. 88-89: 323 GT Turbo.
Valve Stem Seal	Both	1988-89	38-520-45	Viton. Metal Clad.
	Both	1988-95	38-998-45	Viton. Metal Clad. For 0.235 Stem
Expansion Plug Kit		1988-95	97-0222	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 9</b>	<b>1597cc (1.6L) DOHC 16V ZM</b>			<b>1999-01 L4 BORE - 78mm/3.07"</b>
Guide	Exh	1999-01	30-8174	1.808 OAL. 0.436 O.D. Incl. Lock Ring
	Int	1999-01	30-8187	1.920 OAL. Incl. Lock Ring. Tapered End
Valve Stem Seal	Both	1999-01	38-998-45	Viton. Metal Clad.
<b>LINE 10</b>	<b>1796cc (1.8L) SOHC VB 8V</b>			<b>1976-78 L4 BORE - 78mm/3.07"</b>
Valve	Exh	1976-78	10-10060S	1.297 Head Dia. 0.316 Stem
	Int	1976-78	10-10061	1.656 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1976-78	21-1500-57	1.100T I.D. 1-1/2 O.D. 0.316 Depth.
	Int	1976-78	21-1750-54	1.460T I.D. 1-3/4 O.D. 0.316 Depth.
Guide	Both	1976-78	30-7462	1.990 OAL. 0.3185 Plain I.D.
	Both	1976-78	30-9462	1.990 OAL. 0.3185 Spiral I.D.
Keeper	Exh	1976-78	34-213	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1976-78	34-212	0.109 Groove Dia. 1 Groove. Heat Treated
Expansion Plug Kit		1976-78	97-41	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 11</b>	<b>1839cc (1.8L) SOHC 16V BP012</b>			<b>1990-94 L4 BORE - 83mm/3.27"</b>
Valve Seat Insert	Exh	1990-94	21-1125-55	0.830 I.D. 1-1/8 O.D. 0.240 Depth
	Int	1990-94	21-1250-65	1.030 I.D. 1-1/4 O.D. 0.215 Depth.
Guide	Exh	1990-94	30-8186	1.920 OAL. Incl. Lock Ring
	Int	1990-94	30-8187	1.920 OAL. Incl. Lock Ring. Tapered End
Lifter	Both	1990-94	36-2254	Hydraulic
Valve Stem Seal	Both	1990-94	38-520-45	Viton. Metal Clad.
	Both	1990-94	38-998-45	Viton. Metal Clad.
Expansion Plug Kit		1990-94	97-144	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 12</b>	<b>1839cc (1.8L) DOHC 16V BP, FP</b>			<b>1990-05 L4 BORE - 83mm/3.27"</b>
Valve	Exh	1990-05	10-10235	1.103 Head Dia. 0.235 Stem 3.997 OAL. Miata
	Exh	1999-00	10-10563	1.089 Head Dia. 0.2354 Stem. Protégé
	Int	1990-97	10-10234	1.298 Head Dia. 0.235 Stem. 3.990 OAL. Miata
	Int	1999-00	10-10562	1.240 Head Dia. 0.235 Stem. Protégé
Valve Seat Insert	Exh	1990-05	21-1250-56	0.905T I.D. 1-1/4 O.D. 0.230 Depth.
	Int	1990-05	21-1437-74	1.162 I.D. 1-7/16 O.D. 0.230 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>1839cc (1.8L) DOHC 16V BP, FP</b>		<b>1990-05 L4</b>	<b>BORE - 83mm/3.27"</b>
Guide	Both	1999-00	<b>30-8561</b>	1.490 OAL. Protégé
	Exh	1990-05	<b>30-8174</b>	99-00: Miata. 1.808 OAL. Incl. Lock Ring
	Int	1990-05	<b>30-8173</b>	99-00: Miata. 1.775 OAL. Incl. Lock Ring
Spring	Both	1990-97	<b>32-1430</b>	1.831 Free Length
Lifter	Both	1990-00	<b>36-2276</b>	Hydraulic Bucket
Valve Stem Seal	Both	1990-95	<b>38-520-45</b>	Viton. Metal Clad.
	Both	1990-05	<b>38-998-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1990-05	<b>97-144</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 13</b>	<b>1844cc (1.8L) DOHC 24V K8</b>		<b>1992-95 V6</b>	<b>BORE - 75mm/2.953"</b>
Valve	Exh	1992-95	<b>10-10515</b>	0.909 Head Dia. 0.235 Stem
	Int	1992-95	<b>10-10514</b>	1.122 Head Dia. 0.235 Stem
Guide	Both	1992-95	<b>30-8561</b>	1.490 OAL
Lifter	Both	1992-95	<b>36-2276</b>	Hydraulic Bucket
Valve Stem Seal	Both	1992-95	<b>38-520-45</b>	Viton. Metal Clad.
<b>LINE 14</b>	<b>1970cc (2.0L) SOHC MA 8V</b>		<b>1979-84 L4</b>	<b>BORE - 80mm/3.15"</b>
Valve	Exh	1979-84	<b>10-10060S</b>	1.297 Head Dia.
	Int	1979-84	<b>10-10061</b>	1.656 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1979-84	<b>21-1500-57</b>	1.100T I.D. 1-1/2 O.D. 0.316 Depth.
	Int	1979-84	<b>21-1750-54</b>	1.460T I.D. 1-3/4 O.D. 0.316 Depth.
Guide	Both	1979-84	<b>30-9557</b>	2.000 OAL. Spiral I.D. 30-7557 Plain I.D. Also Avail.
Keeper	Exh	1979-84	<b>34-213</b>	0.090 Groove Dia. 1 Groove. Heat Treated
	Int	1979-84	<b>34-212</b>	0.109 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both	1979-84	<b>38-966-55</b>	Viton. Metal Clad.
	Both	1982-84	<b>38-997-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1979-84	<b>97-113</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 15</b>	<b>1991cc (2.0L) DOHC 16V FS</b>		<b>1993-03 L4</b>	<b>BORE - 83mm/3.2"</b>
Valve	Exh	1993-03	<b>10-10563</b>	1.089 Head Dia. 0.235 Stem
	Int	1993-03	<b>10-10562</b>	1.240 Head Dia. 0.235 Stem
Guide	Both	1993-03	<b>30-8561</b>	1.490 OAL. Incl. Lock Ring
Lifter	Both	1993-97	<b>36-2276</b>	Hydraulic Bucket
Valve Stem Seal	Both	1993-93	<b>38-520-45</b>	Viton. Metal Clad.
	Both	1993-03	<b>38-998-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1993-03	<b>97-169</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 16</b>	<b>1991cc (2.0L) DOHC 16V (Ford) ZETEC</b>		<b>2001-04 L4</b>	<b>BORE - 84.8mm/3.34"</b>
Valve	Exh	2001-04	<b>10-1746</b>	1.102 Head Dia. 0.238 Stem
	Int	2001-04	<b>10-1745</b>	1.260 Head Dia. Hollow Stem Valve 0.2376 Dia.
Valve Seat Insert	Exh	2001-04	<b>21-1187-51</b>	0.905 I.D. 1 3/16 O.D. 0.2570 Depth
	Int	2001-04	<b>22-1339-2</b>	1.024 I.D. 1.339 O.D. 0.335 Depth. Adjustable Cutter Required
Guide	Both	2001-04	<b>30-8662</b>	1.421 OAL. 0.4736 O.D. 0.2388 I.D.
Keeper	Both	2001-04	<b>34-5025</b>	1 Round Groove
Valve Stem Seal	Both	2001-04	<b>38-571-45</b>	Viton. Top Hat.
Retainer	Both	2001-04	<b>55-6260</b>	Chrome Moly. 0.750 O.D. 6mm Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 17</b>	<b>1998cc (2.0L) SOHC FE/Turbo</b>			<b>1983-87 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1983-87	<b>10-10237</b>	1.417 Head Dia. Incl. Turbo	
	Int	1983-87	<b>10-10236</b>	1.732 Head Dia. Incl. Turbo	
Valve Seat Insert	Exh	1983-87	<b>21-1500-54</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1983-87	<b>21-1812-50</b>	1.490T I.D. 1-13/16 O.D. 0.307 Depth.	
Guide	Both	1983-87	<b>30-8172</b>	2.177 OAL. +2 O/S Avail. Incl. Lock Ring	
Spring	Both	1983-87	<b>32-1368</b>	1.720 Free Length. Inner	
	Both	1983-87	<b>32-1370</b>	2.041 Free Length. Outer	
Keeper	Exh	1983-87	<b>34-213</b>	0.090 Groove Dia. 1 Groove. Heat Treated	
	Int	1983-87	<b>34-212</b>	0.109 Groove Dia. 1 Groove. Heat Treated	
Valve Stem Seal	Both	1983-87	<b>38-966-55</b>	Viton. Metal Clad.	
	Both	1983-87	<b>38-997-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1983-87	<b>97-0224</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 18</b>	<b>1998cc (2.0L) DOHC 16V SkyActiv</b>			<b>2014-16 L4</b>	<b>BORE - 83.5mm/3.287"</b>
Keeper	Both	2014-16	<b>34-5024</b>	1 Round Groove. 0.215 Stem	
<b>LINE 19</b>	<b>1998cc (2.0L) SOHC Diesel RF 8V</b>			<b>1984-85 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve Seat Insert	Int	1984-85	<b>21-1687-57</b>	1.335T I.D. 1-11/16 O.D. 0.275 Depth.	
Keeper	Both	1984-85	<b>34-212</b>	0.109 Groove Dia. 1 Groove. Heat Treated	
Valve Stem Seal	Both	1984-85	<b>38-966-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1984-85	<b>97-0224</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 20</b>	<b>1999cc (2.0L) DOHC 16V FSD Vin D,F,G LFX</b>			<b>2004-15 L4</b>	<b>BORE - 87.4mm/3.44"</b>
Valve	Exh	2004-13	<b>10-2007</b>	1.181 Head Dia. 0.215 Stem	
	Int	2004-14	<b>10-2006</b>	1.378 Head Dia. 0.216 Stem	
Valve Seat Insert	Exh	2004-13	<b>21-1250-62</b>	1.000 I.D. 1-1/4 O.D. 0.305 Depth	
Guide	Both	2004-13	<b>30-3070</b>	1.535 OAL. 0.217 I.D. 0.435 O.D.	
Spring	Both	2004-13	<b>32-04062</b>	1.908 Free Length. Conical	
Keeper	Both	2004-13	<b>34-5024</b>	1 Round Groove	
Valve Stem Seal	Both	2004-13	<b>38-6105-55</b>	Viton. Top Hat	
<b>LINE 21</b>	<b>2184cc (2.2L) SOHC 8V F2 Carb. &amp; F.I.</b>			<b>1987-93 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1987-93	<b>10-10237</b>	1.417 Head Dia.	
	Int	1987-93	<b>10-10236</b>	1.732 Head Dia.	
Valve Seat Insert	Exh	1987-93	<b>21-1500-54</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1987-93	<b>21-1812-50</b>	1.490T I.D. 1-13/16 O.D. 0.307 Depth.	
Guide	Both	1990-93	<b>30-8142</b>	2.088 OAL	
	Both	1987-93	<b>30-8172</b>	2.177 OAL. +2 O/S Avail. Incl. Lock Ring	
Spring	Both	1987-93	<b>32-1368</b>	1.716 Length	
	Both	1987-93	<b>32-1370</b>	1.958 Free Length	
Keeper	Exh	1987-93	<b>34-213</b>	0.090 Groove Dia. 1 Groove. Heat Treated	
	Int	1987-93	<b>34-212</b>	0.109 Groove Dia. 1 Groove. Heat Treated	
Lifter	Both	1987-93	<b>36-2254</b>	Hydraulic	
Valve Stem Seal	Both	1987-93	<b>38-966-55</b>	Viton. Metal Clad.	
	Both	1987-93	<b>38-997-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1987-93	<b>97-0224</b>	Steel Kit. Brass Kit Avail. In Suffix B	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 22</b>	<b>2184cc (2.2L) SOHC 12V 12B F2</b>		<b>1988-92 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1988-92	10-10163	1.339 Head Dia.
	Int	1988-92	10-10162	1.280 Head Dia.
Valve Seat Insert	Exh	1988-92	21-1437-75	1.175 I.D. 1-7/16 O.D. 0.260 Depth.
	Int	1988-92	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.
Guide	Both	1988-92	30-8142	2.088 OAL
Lifter	Both	1988-92	36-2254	Hydraulic
Valve Stem Seal	Both	1988-92	38-997-45	Viton. Metal Clad.
<b>LINE 23</b>	<b>2184cc (2.2L) SOHC 12V Turbo 34D F2</b>		<b>1988-92 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1988-92	10-10164	1.339 Head Dia. +15 O/S May Be Avail.
	Int	1988-92	10-10162	1.280 Head Dia.
Valve Seat Insert	Exh	1988-92	21-1437-75	1.175 I.D. 1-7/16 O.D. 0.260 Depth.
	Int	1988-92	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.
Guide	Both	1988-92	30-8142	2.088 OAL
Lifter	Both	1988-92	36-2254	Hydraulic
Valve Stem Seal	Both	1988-92	38-125-65	Silicone. 2-Ring.
<b>LINE 24</b>	<b>2255cc (2.3L) SOHC 8V (Ford) Vin A</b>		<b>1994-97 L4</b>	<b>BORE - 80.3mm/3.16"</b>
Valve	Exh	1994-94	10-1597	1.500 Head Dia. 4 Groove. +3, +15 O/S Stem May Be Avail.
	Exh	1994-97	10-1744	1.500 Head Dia. 0.274 Stem Dia. 3 Groove. +3 & +15 O/S Stem May Be Avail.
	Int	1994-94	10-1598	1.735 Head Dia. 4 Groove. +3, +15 O/S Stem May Be Avail. 4 Groove
	Int	1995-97	10-1743	1.735 Head Dia. 3 Groove
Valve Seat Insert	Exh	1995-97	20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Exh	1994-97	20-1562-36	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth.
	Int	1994-97	20-1812-2	1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both	1995-97	30-8274	1.930 OAL. 0.2765 I.D. 0.495 O.D. +2 O/S, 31-8274 Bronze Avail.
	Exh	1994-94	30-9846	2.313 OAL. Flanged
	Int	1994-94	30-9206	2.188 OAL. Flanged. Spiral I.D. 30-7206 Plain I.D. Also Avail.
Spring	Both	1995-97	32-04026	2.020 Free Length
Keeper	Both	1995-97	34-281	3 Round Grooves
	Both	1994-94	34-620	Heat Treated. 4 Groove
Lifter	Both	1994-97	36-2012	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1995-97	38-309-45	Viton. Metal Clad. Use w/ 0.275 Stem Dia.
	Exh	1994-94	38-806-55	Viton. Metal Clad.
	Int	1994-94	38-805-45	Viton. Metal Clad.
<b>LINE 25</b>	<b>2255cc (2.3L) DOHC 24V KJ Vin 2</b>		<b>1995-02 V6</b>	<b>BORE - 80.3mm/3.00"</b>
Guide	Int	1995-02	30-8186	1.920 OAL. Incl. Lock Ring
	Int	1995-02	30-8187	1.920 OAL. Incl. Lock Ring. Tapered End
Valve Stem Seal	Both	1995-02	38-998-45	Viton. Metal Clad.
<b>LINE 26</b>	<b>2261cc (2.3L) DOHC 16V Vin 3,4,D,L,M,Z</b>		<b>2001-13 L4</b>	<b>BORE - 87.5mm/3.44"</b>
Valve	Exh	2006-13	10-13306	1.181 Head Dia. 0.2352 Stem.
	Exh	2001-13	10-2007	1.181 Head Dia. 0.215 Stem
	Int	2006-13	10-13305	1.378 Head Dia. 0.2354 Stem
	Int	2001-13	10-2006	1.378 Head Dia. 0.216 Stem
Valve Seat Insert	Exh	2001-13	21-1250-62	1.000 I.D. 1-1/4 O.D. 0.305 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 26</b>	<b>2461cc (2.3L) DOHC 16V Vin 3,4,D,L,M,Z</b>			<b>2001-13 L4 BORE - 87.5mm/3.44"</b>
Guide	Both	2001-13	<b>30-3070</b>	1.535 OAL. 0.217 I.D. 0.435 O.D.
Spring	Both	2001-13	<b>32-04059</b>	1.776 Free Length. Conical
Keeper	Both	2001-13	<b>34-5024</b>	1 Round Groove
Valve Stem Seal	Both	2001-13	<b>38-6105-55</b>	Viton. Top Hat
<b>LINE 27</b>	<b>2488cc (2.5L) DOHC 16V Vin 3</b>			<b>2009-16 L4 Bore - 89mm/3.50"</b>
Valve	Exh	2009-14	<b>10-2007</b>	1.181 Head Dia. 0.215 Stem
	Int	2009-14	<b>10-2006</b>	1.378 Head Dia. 0.216 Stem
Valve Seat Insert	Exh	2009-14	<b>21-1250-62</b>	1.378 Head Dia. 0.216 Stem
Guide	Both	2009-14	<b>30-3070</b>	1.535 OAL. 0.217 I.D. 0.435 O.D.
Spring	Both	2009-14	<b>32-04062</b>	1.908 Free Length. Conical
Keeper	Both	2009-15	<b>34-5024</b>	1 Round Groove
Valve Stem Seal	Both	2009-14	<b>38-6105-55</b>	Viton. Top Hat
<b>LINE 28</b>	<b>2497cc (2.5L) DOHC 24V KL Vin 1</b>			<b>1993-02 V6 BORE - 84.5mm/3.33"</b>
Valve	Exh	1993-02	<b>10-10551</b>	1.086 Head Dia.
	Int	1993-02	<b>10-10550</b>	1.260 Head Dia.
Guide	Both	1993-02	<b>30-8561</b>	1.490 OAL. Incl. Lock Ring
Lifter	Both	1993-02	<b>36-2276</b>	Hydraulic. 30mm Dia. Exc. 98-02 626
Valve Stem Seal	Both	1993-02	<b>38-998-45</b>	Viton. Metal Clad.
<b>LINE 29</b>	<b>2503cc (2.5L) SOHC 8V (Ford) Vin C</b>			<b>1998-01 L4 BORE - 96mm/3.77"</b>
Valve	Exh	1998-01	<b>10-1744</b>	1.500 Head Dia. 0.274 Stem Dia. 3 Groove. +3 & +15 O/S Stem May Be Avail.
	Int	1998-01	<b>10-1743</b>	1.735 Head Dia. 0.275 Stem. +15 O/S Stem May Be Avail.
Spring	Both	1998-01	<b>32-04026</b>	2.020 Free Length.
Keeper	Both	1998-01	<b>34-281</b>	3 Round Grooves
Lifter	Both	1998-01	<b>36-2012</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1999-01	<b>38-224-45</b>	Viton. Top Hat
	Both	1998-98	<b>38-309-45</b>	Viton. Metal Clad
<b>LINE 30</b>	<b>2544cc (2.5L) DOHC 24V (Ford)</b>			<b>2000-01 V6 BORE - 3.24"/82.3mm</b>
Valve	Exh	2000-01	<b>10-1729</b>	1.023 Head Dia.
	Int	2000-01	<b>10-1728</b>	1.260 Head Dia.
Valve Seat Insert	Exh	2000-01	<b>21-1125-52</b>	0.825T I.D. 1-1/8 O.D. 0.285 Depth
	Int	2000-01	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
Guide	Both	2000-01	<b>30-8560</b>	1.880 OAL
Spring	Both	2000-01	<b>32-2476</b>	1.847 Free Length
Keeper	Both	2000-01	<b>34-281</b>	3 Round Grooves
Lifter	Both	2001-01	<b>36-2271</b>	Hydraulic Lash Adjuster
Retainer	Both	2000-01	<b>55-6252</b>	0.920 O.D. 6mm Stem
Expansion Plug Kit		2000-01	<b>97-150</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 31</b>	<b>2555cc (2.6L) SOHC CE26/AM1 (Mitsubishi) 12V</b>			<b>1987-88 L4 BORE - 91.1 mm/3.59"</b>
Valve	Exh	1987-88	<b>10-10146</b>	1.493 Head Dia. Round Groove.
	Int	1987-88	<b>10-10145</b>	1.810 Head Dia. Round Groove.
Valve Seat Insert	Exh	1987-88	<b>21-1625-56</b>	1.298T I.D. 1-5/8 O.D. 0.317 Depth
	Int	1987-88	<b>21-1875-51</b>	1.575T I.D. 1-7/8 O.D. 0.317 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 31</b>	<b>2555cc (2.6L) SOHC CE26/AM1 (Mitsubishi) 12V</b>			<b>1987-88 L4 BORE - 91.1 mm/3.59"</b>
Guide	Exh	1987-88	<b>30-7575</b>	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1987-88	<b>30-8226</b>	2.046 OAL. 0.5625 O.D.
	Int	1987-88	<b>30-7574</b>	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
	Int	1987-88	<b>30-8225</b>	1.848 OAL. 0.5625 O.D.
Spring	Both	1987-88	<b>32-1289</b>	1.960 Free Length
Keeper	Both	1987-88	<b>34-716</b>	1 Round Groove. Heat Treated
Lifter	Both	1987-88	<b>36-6000</b>	B2600 Pickup. Hydraulic
Valve Stem Seal	Both	1987-88	<b>38-938-45</b>	Viton. Ring And Band.
	Both	1987-88	<b>38-964-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1987-88	<b>97-0216</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 32</b>	<b>2605cc (2.6L) SOHC 12V G6 &amp; G60</b>			<b>1989-95 L4 BORE - 92mm/3.60"</b>
Valve	Exh	1989-95	<b>10-10244</b>	1.417 Head Dia.
	Int	1989-95	<b>10-10243</b>	1.312 Head Dia.
Valve Seat Insert	Exh	1989-95	<b>21-1500-80</b>	1.250 I.D. 1-1/2 O.D. 0.230 Depth
	Int	1989-95	<b>21-1437-74</b>	1.162 I.D. 1-7/16 O.D. 0.230 Depth.
Guide	Both	1989-95	<b>30-8142</b>	2.088 OAL
Lifter	Both	1989-95	<b>36-2254</b>	Hydraulic
Valve Stem Seal	Both	1989-93	<b>38-125-65</b>	Silicone. 2-Ring.
	Both	1989-95	<b>38-997-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1989-94	<b>97-170</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 33</b>	<b>2954cc (3.0L) SOHC 18V CE30, JE30, JE39</b>			<b>1988-98 V6 BORE - 90mm/3.50"</b>
Valve	Exh	1988-98	<b>10-10246S</b>	1.496 Head Dia. 0.3160 Stem Dia.
	Int	1988-98	<b>10-10245</b>	1.299 Head Dia. 0.2744 Stem Dia.
Valve Seat Insert	Exh	1988-98	<b>21-1625-62</b>	1.320 I.D. 1-5/8 O.D. 0.300 Depth.
	Int	1988-98	<b>21-1437-66</b>	1.120 I.D. 1-7/16 O.D. 0.300 Depth
Guide	Exh	1988-98	<b>30-8141</b>	2.360 OAL. 0.3180 I.D.
	Int	1988-98	<b>30-8205</b>	1.990 OAL. 0.2755 I.D.
Keeper	Both	1988-98	<b>34-213</b>	0.090 Groove Dia. 1 Groove. Heat Treated
Lifter	Both	1988-98	<b>36-2254</b>	Hydraulic
Valve Stem Seal	Exh	1988-98	<b>38-966-55</b>	Viton. Metal Clad.
	Int	1988-98	<b>38-997-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1988-98	<b>97-145</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 34</b>	<b>2954cc (3.0L) DOHC 24V JE27, JE48 &amp; JE74</b>			<b>1990-96 V6 BORE - 90mm/3.54"</b>
Valve	Exh	1990-95	<b>10-10248</b>	1.217 Head Dia.
	Int	1990-95	<b>10-10247</b>	1.366 Head Dia.
Valve Seat Insert	Exh	1990-95	<b>21-1312-57</b>	1.060 I.D. 1-5/16 O.D. 0.280 Depth.
	Int	1990-95	<b>21-1437-75</b>	1.175 I.D. 1-7/16 O.D. 0.260 Depth.
Guide	Exh	1990-95	<b>30-8541</b>	2.205 OAL. Incl. Lock Ring.
	Int	1990-95	<b>30-8542</b>	1.910 OAL. Incl. Lock Ring.
Valve Stem Seal	Both	1992-92	<b>38-520-45</b>	Viton. Metal Clad.
	Both	1990-91	<b>38-997-45</b>	Viton. Metal Clad. JE27
	Both	1993-96	<b>38-998-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1990-96	<b>97-145</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 35</b>	<b>2967cc (3.0L) DOHC 24V (Ford) Vin 1,G</b>		<b>2001-11 V6</b>	<b>BORE - 3.504"/89mm</b>
Valve	Exh	2001-11	10-1788	1.181 Head Dia.
	Int	2001-11	10-1787	1.378 Head Dia.
Valve Seat Insert	Exh	2001-11	21-1250-56	0.905T I.D. 1-1/4 O.D. 0.230 Depth.
Guide	Both	2001-11	30-8560	1.880 OAL
Spring	Both	2001-11	32-2476	1.847 Free Length
Keeper	Both	2001-11	34-03722	3 Round Grooves
Lifter	Both	2001-11	36-2271	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2001-11	38-565-45	Viton. Top Hat.
<b>LINE 36</b>	<b>2983cc (3.0L) OHV 12V (Ford) U, 8U</b>		<b>1994-07 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	1994-99	10-1535	1.371 Head Dia. 0.3125 Stem Dia. +15 O/S Stem May Be Avail.
	Exh	2000-07	10-2047	1.371 Head Dia. 0.274 Stem Dia.
	Int	1994-99	10-1536	1.661 Head Dia. 0.3130 Stem Dia. +3, +15 O/S Stem May Be Avail.
	Int	2000-07	10-2046	1.661 Head Dia. 0.275 Stem Dia.
Valve Seat Insert	Exh	1994-99	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh	2000-07	20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. -N Suffix Nickel Matl. Also Avail.
	Int	1994-07	20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both	2000-07	30-3048	2.500 OAL. 0.4747 O.D. 0.2768 I.D. w/ Seal Boss
	Both	2000-07	30-3066	2.200 OAL. 0.439 O.D. 0.2768 I.D. w/o Seal Boss
	Both	1994-99	30-9204	2.200 OAL. 0.315 I.D. 0.439 O.D.
Spring	Both	2000-07	32-04017	1.843 Free Length. Conical
	Both	1994-99	32-1258	1.840 Free Length
Keeper	Both	2000-07	34-281	3 Round Grooves
	Both	1994-99	34-619	Heat Treated. 3 Groove.
Lifter	Both	1994-07	36-2205	Hydraulic Roller
Valve Stem Seal	Both	2000-07	38-300-45	Viton. Ring and Band. 0.275 Stem
	Both	1994-99	38-936-45	Viton. Ring And Band. For 5/16 Stem Dia.
<b>LINE 37</b>	<b>3496cc (3.5L) DOHC 24V (Ford)</b>		<b>2007-13 V6</b>	<b>BORE - 92.5mm/3.64"</b>
Valve	Exh	2007-13	10-13226	1.220 Head Dia.
	Int	2007-13	10-13225	1.457 Head Dia.
Spring	Both	2007-13	32-5009	1.910 Free Length
Keeper	Both	2007-13	34-5024	1 Round Groove
Valve Stem Seal	Both	2007-13	38-6125-55	Top Hat. Viton
<b>LINE 38</b>	<b>3726cc (3.7L) DOHC 24V</b>		<b>2008-15 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Valve	Exh	2008-15	10-13226	1.220 Head Dia.
	Int	2008-15	10-13225	1.457 Head Dia.
Spring	Both	2008-15	32-5009	1.910 Free Length
Keeper	Both	2008-15	34-5024	1 Round Groove. 0.215 Stem
Valve Stem Seal	Both	2008-15	38-6125-55	Top Hat. Viton
<b>LINE 39</b>	<b>4016cc (4.0L) OHV 12V (Ford) X, 8X, ZZL, VGE4</b>		<b>1991-01 V6</b>	<b>BORE - 100.4mm/3.95"</b>
Valve	Exh	1991-01	10-10388	1.358 Head Dia. +3 & +10 & +15 O/S Stem May Be Avail. 3 Groove
	Int	1991-01	10-10387	1.713 Head Dia. +3 & +10 & +15 O/S Stem May Be Avail. 1 Groove
Valve Seat Insert	Exh	1991-01	20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int	1991-01	20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
	Int	1991-01	20-1875-19	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 39</b>	<b>4016cc (4.0L) OHV 12V (Ford) X, 8X, ZZL, VGE4</b>			<b>1991-01 V6 BORE - 100.4mm/3.95"</b>
Guide	Both	1991-01	<b>30-9198</b>	2.000 OAL. Spiral I.D. 30-7198 Plain I.D. Also Avail.
Spring	Both	1991-01	<b>32-1684</b>	2.130 Free Length.
Keeper	Exh	1990-01	<b>34-00515</b>	3 Round Grooves
	Int	1991-01	<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1991-01	<b>36-2244</b>	Hydraulic Roller.
Valve Stem Seal	Both	1991-01	<b>38-812-45</b>	Viton. Metal Clad.
Rocker Component	Both	1991-00	<b>40-1807</b>	Rocker Arm. Cast. OEM # F0TZ6564A
Push Rod		1991-00	<b>74-5471</b>	5.475 Length

<b>LINE 40</b>	<b>4025cc (4.0L) SOHC 12V (Ford) E</b>			<b>2001-10 V6 BORE - 100.3mm/3.95"</b>
Valve	Exh	2001-10	<b>10-1914</b>	1.535 Head Dia.
	Int	2001-10	<b>10-1913</b>	1.811 Head Dia.
Valve Seat Insert	Int	2001-10	<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
	Exh	2001-10	<b>21-1625-54</b>	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
	Int	2001-10	<b>21-1875-50</b>	1.640 I.D. 1-7/8 O.D. 0.280 Depth. May Need To Machine Depth
Guide	Both	2001-10	<b>30-8663</b>	1.740 OAL. Incl. Lock Ring
Spring	Both	2001-10	<b>32-2302</b>	1.695 Free Length
Keeper	Both	2001-10	<b>34-281</b>	3 Groove
Lifter	Both	2001-10	<b>36-7005</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2001-10	<b>38-292-45</b>	Viton. Top Hat.

# MERCEDES BENZ

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ENGINE	YEAR	CYL.	LINE NO.
1000cc (1.0L) DOHC 12V VIN 3,X [Smart]	2008-14	L3	1
1767cc (1.8L) OM636 Mercedes Diesel		L4	2
2687cc (2.7L) DOHC 20V OM612/OM647 Diesel	2002-07	L5	3
2746cc (2.8L) DOHC 12V	1972-81	L6	4
2987cc (3.0L) OM642 24V DOHC Diesel Turbo	2007-15		5
3499cc (3.5L) SOHC	1969-71	V8	6
3839cc (3.8L) SOHC	1981-85	V8	7
4.3L OM904,OM924 12V, 6.3L OM906, OM926 18V Diesel		L4,6	8
4520cc (4.5L) SOHC	1972-80	V8	9

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1000cc (1.0L) DOHC 12V VIN 3,X [Smart]</b>			<b>2008-14 L3 BORE - 72mm / 2.83"</b>
Valve	Exh	2008-14	10-3225	1.000 Head Dia. 0.197 Stem
	Int	2008-14	10-3224	1.197 Head Dia. 0.197 Stem
Guide	Both	2008-14	30-3288	1.360 OAL. 0.197 I.D. 0.416 O.D.
<b>LINE 2</b>	<b>1767cc (1.8L) OM636 Mercedes Diesel</b>			<b>L4 BORE - 75mm/2.95"</b>
Guide	Exh		30-7875	2.223 OAL. OEM # 11-3281
<b>LINE 3</b>	<b>2687cc (2.7L) DOHC 20V OM612/OM647 Diesel</b>			<b>2002-07 L5 BORE - 88mm/3.46"</b>
Valve	Exh	2004-06	10-13074	1.032 Head Dia.
	Exh	2002-03	10-2235	1.120 Head Dia.
	Int	2004-06	10-13073	1.130 Head Dia.
	Int	2002-03	10-2234	1.189 Head Dia.
Valve Seat Insert	Exh	2004-06	22-1088-1	0.890T I.D. 1.088 O.D. 0.221 Depth.
	Int	2004-06	22-1160-1	0.960T I.D. 1.160 O.D. 0.221 Depth
Guide	Both	2002-07	30-3255	1.476 OAL
Keeper	Both	2002-07	34-5026	1 Round Groove
Valve Stem Seal	Both	2002-07	38-5080-55	Viton. Metal Clad.
<b>LINE 4</b>	<b>2746cc (2.8L) DOHC 12V</b>			<b>1972-81 L6 BORE - 86mm/3.38"</b>
Valve Seat Insert	Exh	1972-81	21-1625-64	1.335T I.D. 1-5/8 O.D. 0.420 Depth
	Int	1972-81	21-1875-55	1.625T I.D. 1-7/8 O.D. 0.352 Depth
<b>LINE 5</b>	<b>2987cc (3.0L) OM642 24V DOHC Diesel Turbo</b>			<b>2007-15 BORE - 82mm/3.23"</b>
Valve	Exh	2007-15	10-13357	1.000 Head Dia. 0.2346 Stem
	Int	2007-15	10-13356	1.122 Head Dia. 0.2349 Stem
Keeper	Both	2007-15	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2007-15	36-7561	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2007-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 6</b>	<b>3499cc (3.5L) SOHC</b>			<b>1969-71 V8 BORE - 92mm/3.60"</b>
Valve Seat Insert	Exh	1969-71	21-1625-64	1.335T I.D. 1-5/8 O.D. 0.420 Depth
	Int	1969-71	21-1812-60	1.590T I.D. 1-13/16 O.D. 0.450 Depth
<b>LINE 7</b>	<b>3839cc (3.8L) SOHC</b>			<b>1981-85 V8 BORE - 88mm/3.40"</b>
Valve Seat Insert	Both	1981-85	21-1625-64	1.335T I.D. 1-5/8 O.D. 0.420 Depth. Int. For Engine #M116.963 Only
	Int	1981-85	21-1812-60	1.590T I.D. 1-13/16 O.D. 0.450 Depth. # M116.960, M116.961. Eng.
<b>LINE 8</b>	<b>4.3L OM904,OM924 12V, 6.3L OM906, OM926 18V Diesel</b>			<b>L4,6 BORE - 102mm/ 4.02"</b>
Valve	Exh		10-3189	1.496 Head Dia. 1 per Cyl. OEM # 9060500327

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>4.3L OM904,OM924 12V, 6.3L OM906, OM926 18V Diesel</b>			
				<b>L4,6 BORE - 102mm/ 4.02"</b>
Valve	Int		<b>10-3188</b>	1.339 Head Dia. 0.3127 Stem. 2 per Cyl. OEM # 9060500326
Valve Seat Insert	Exh		<b>22-1578-1</b>	1.233T I.D. 1.578 O.D. 0.315. OEM # 9060531232
	Int		<b>22-1382-2</b>	1.100 I.D. 1.382 O.D. 0.300 Depth. OEM # 9060530131
Guide	Both		<b>30-3276</b>	2.365 OAL. Finished 0.316 ID
	Both		<b>30-3285</b>	2.363 OAL. Unfinished 0.295 I.D. OEM # 9060530130
Valve Stem Seal	Both	1995-	<b>38-6126-55</b>	Metal Clad. Viton
<b>LINE 9</b>	<b>4520cc (4.5L) SOHC</b>			
				<b>1972-80 V8 BORE - 92mm/3.60"</b>
Valve Seat Insert	Exh	1972-80	<b>21-1625-64</b>	1.335T I.D. 1-5/8 O.D. 0.420 Depth
	Int	1972-80	<b>21-1812-60</b>	1.590T I.D. 1-13/16 O.D. 0.450 Depth

ENGINE	YEAR	CYL.	LINE NO.
1193cc (1.2L) DOHC 12V 3A92	2014-15	L3	1
1468cc (1.5L) SOHC 8V G15B Carb.	1985-89	L4	2
1468cc (1.5L) SOHC 8V 4G15 Vin X, G4DJ Vin J	1989-94	L4	3
1468cc (1.5L) SOHC 12V 4G15 Vin A	1991-02	L4	4
1597cc (1.6L) SOHC 8V Turbo G32B Vin F	1985-88	L4	5
1597cc (1.6L) DOHC 16V 4G61, 4G61T Turbo Vin Y	1989-92	L4	6
1755cc (1.8L) SOHC 8V 4G37 Vin B, T	1990-94	L4	7
1795cc (1.8L) SOHC 12V G62B, Turbo Vin 4,G	1983-88	L4	8
1834cc (1.8L) SOHC 16V 4G93 Vin C, D	1992-02	L4	9
1996cc (2.0L) DOHC 16V A588, 420A Vin Y	1995-99	L4	10
1997cc (2.0L) SOHC G63B 8V, 4G63 8V Vin 5, D, V	1983-93	L4	11
1997cc (2.0L) DOHC 16V 4G63, 4G63 Turbo Vin E,R,F,U	1989-99	L4	12
1997cc (2.0L) DOHC 16V Vin C, D 4G63 Turbo	2003-06	L4	13
1998cc (2.0L) DOHC 16V VVT Vin U 4B11	2008-16	L4	14
1999cc (2.0L) SOHC 16V 4G94 Vin E	2002-07	L4	15
2346cc (2.3L) SOHC Diesel 4D55 Vin 9, J	1983-85	L4	16
2351cc (2.4L) SOHC G64B 12V, 4G64 8V Vin L, G, W	1985-96	L4	17
2351cc (2.4L) SOHC, DOHC 16V 4G64 Vin G	1993-05	L4	18
2351cc (2.4L) DOHC 16V 4G64	1994-95	L4	19
2360cc (2.4L) DOHC 16V VVT 4B12 Vin W	2008-16	L4	20
2378cc (2.4L) SOHC 16V 4G69	2004-12	L4	21
2497cc (2.5L) SOHC 24V 6G73	1995-98	V6	22
2555cc (2.6L) SOHC G54B/T Turbo Vin 7, E, H, N	1983-89	L4	23
2972cc (3.0L) SOHC 12V 6G72 Vin H, S	1988-99	V6	24
2972cc (3.0L) DOHC 24V 6G72 & Turbo, Vin B, J, C, K	1991-99	V6	25
2972cc (3.0L) SOHC 24V 6G72 Vin P, H, F, L	1995-05	V6	26
2998cc (3.0L) SOHC 24V 6B31 Vin X	2007-16	V6	27
3497cc (3.5L) DOHC 24V 6G74 Vin M	1994-96	V6	28
3497cc (3.5L) SOHC 24V 6G74 Vin R, P	1997-04	V6	29
3701cc (3.7L) SOHC 12V (Chrysler) Vin K	2006-09	V6	30
3828cc (3.8L) SOHC 24V 6G75 Vin S, T	2003-12	V6	31
4701cc (4.7L) SOHC 16V (Chrysler) Vin N	2006-07	V8	32

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1193cc (1.2L) DOHC 12V 3A92</b>	<b>2014-15</b>	<b>L3</b>	<b>BORE - 75mm/2.95"</b>
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No Parts Available		2014-15	00	Mirage
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<b>LINE 2</b>	<b>1468cc (1.5L) SOHC 8V G15B Carb.</b>	<b>1985-89</b>	<b>L4</b>	<b>BORE - 75.5mm/2.972"</b>
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Valve	Exh	1985-88	10-10097	1.181 Head Dia. Round Groove
	Int	1985-88	10-10098	1.340 Head Dia. Round Groove
Valve Seat Insert	Exh	1985-88	21-1312-53	0.980T I.D. 1-5/16 O.D. 0.293 Depth
	Int	1985-88	21-1437-51	1.130T I.D. 1-7/16 O.D. 0.250 Depth
Guide	Exh	1985-88	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1985-88	30-7578	1.730 OAL. +2, +6 O/S Avail.
Spring	Both	1985-89	32-1197	1.750 Free Length
Keeper	Both	1985-89	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1985-89	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1985-89	97-0214	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 3</b>	<b>1468cc (1.5L) SOHC 8V 4G15 Vin X, G4DJ Vin J</b>	<b>1989-94</b>	<b>L4</b>	<b>BORE - 75.5mm/2.972"</b>
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Valve	Exh	1989-92	10-10097	1.181 Head Dia. Round Groove
	Int	1989-92	10-10136	1.380 Head Dia. Round Groove



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>1468cc (1.5L) SOHC 8V 4G15 Vin X, G4DJ Vin J</b>			<b>1989-94 L4 BORE - 75.5mm/2.972"</b>
Valve Seat Insert	Exh	1989-92	21-1312-53	0.980T I.D. 1-5/16 O.D. 0.293 Depth
	Int	1989-92	21-1437-63	1.181T I.D. 1-7/16 O.D. 0.280 Depth
Guide	Exh	1989-92	30-7589	1.950 OAL. +2, O/S Avail.
	Int	1989-92	30-7578	1.730 OAL. +2, +6 O/S Avail.
Keeper	Both	1989-92	34-235	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1989-92	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1989-92	97-0214	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 4</b>	<b>1468cc (1.5L) SOHC 12V 4G15 Vin A</b>			<b>1991-02 L4 BORE - 75.5mm/2.972"</b>
Valve	Exh	1991-02	10-10497	1.299 Head Dia.
	Int	1991-02	10-10495	1.023 Head Dia.
	Int	1991-02	10-10496	1.220 Head Dia.
Valve Seat Insert	Exh	1991-02	21-1437-61	1.162 I.D. 1-7/16 O.D. 0.310 Depth
	Int	1991-02	21-1125-52	0.825T I.D. 1-1/8 O.D. 0.285 Depth. w/ 10-10495
	Int	1991-02	21-1312-62	1.065T I.D. 1-5/16 O.D. 0.285 Depth. w/ 10-10496
Guide	Exh	1991-02	30-7589	1.950 OAL. 0.4755 O.D. +2 O/S Avail.
	Int	1991-02	30-7578	1.730 OAL. 0.4755 O.D. +2, +6 O/S Avail.
Keeper	Both	1991-02	34-235	1 Round Groove. Heat Treated
Lifter	Both	1998-02	36-6000	Hydraulic
Valve Stem Seal	Both	1991-02	38-996-55	Viton. Metal Clad.
Expansion Plug Kit		1991-99	97-0214	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>1597cc (1.6L) SOHC 8V Turbo G32B Vin F</b>			<b>1985-88 L4 BORE - 76.9mm/3.00"</b>
Valve Seat Insert	Exh	1985-88	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int	1985-88	21-1562-50	1.260T I.D. 1-9/16 O.D. 0.280 Depth
Guide	Exh	1985-88	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1985-88	30-7576	1.735 OAL. +2, +6 O/S Avail.
Spring	Both	1985-88	32-1123	1.800 Free Length.
Keeper	Both	1985-88	34-716	1 Round Groove. Heat Treated
Lifter	Both	1985-88	36-6000	Hydraulic
Valve Stem Seal	Both	1985-88	38-964-55	Viton. Metal Clad.
<b>LINE 6</b>	<b>1597cc (1.6L) DOHC 16V 4G61, 4G61T Turbo Vin Y</b>			<b>1989-92 L4 BORE - 82.3mm/3.24"</b>
Valve	Exh	1989-92	10-10128	1.201 Head Dia.
	Int	1989-92	10-10126	1.339 Head Dia.
Valve Seat Insert	Exh	1989-92	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1989-92	21-1437-68	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Exh	1989-92	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1989-92	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1989-92	34-235	1 Round Groove. Heat Treated
Lifter	Both	1989-92	36-2274	Hydraulic
Valve Stem Seal	Both	1989-92	38-996-55	Viton. Metal Clad.
<b>LINE 7</b>	<b>1755cc (1.8L) SOHC 8V 4G37 Vin B, T</b>			<b>1990-94 L4 BORE - 80.6mm/3.173"</b>
Valve	Exh	1990-94	10-10140	1.339 Head Dia.
	Int	1990-94	10-10139	1.654 Head Dia.
Valve Seat Insert	Exh	1990-94	21-1500-75	1.180 I.D. 1-1/2 O.D. 0.300 Depth.
	Int	1990-94	21-1750-59	1.360T I.D. 1-3/4 O.D. 0.315 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 7</b>	<b>1755cc (1.8L) SOHC 8V 4G37 Vin B, T</b>			<b>1990-94 L4 BORE - 80.6mm/3.173"</b>
Guide	Exh	1990-94	<b>30-7577</b>	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1990-94	<b>30-7576</b>	1.735 OAL. +2, +6 O/S Avail.
Keeper	Both	1990-94	<b>34-716</b>	1 Round Groove. Heat Treated
Lifter	Both	1990-94	<b>36-6000</b>	Hydraulic
Valve Stem Seal	Both	1990-94	<b>38-964-55</b>	Viton. Metal Clad.
<b>LINE 8</b>	<b>1795cc (1.8L) SOHC 12V G62B, Turbo Vin 4,G</b>			<b>1983-88 L4 BORE - 80.6mm/3.173"</b>
Valve	Exh	1983-88	<b>10-10142</b>	1.378 Head Dia.
	Int	1983-88	<b>10-10141</b>	1.693 Head Dia.
Valve Seat Insert	Exh	1983-88	<b>21-1500-62</b>	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Int	1983-88	<b>21-1750-61</b>	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh	1983-88	<b>30-7575</b>	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1983-88	<b>30-8226</b>	2.046 OAL. 0.5625 O.D.
	Int	1983-88	<b>30-7574</b>	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
	Int	1983-88	<b>30-8225</b>	1.848 OAL. 0.5625 O.D.
Spring	Both	1983-88	<b>32-1289</b>	1.960 Free Length
Keeper	Both	1983-88	<b>34-716</b>	1 Round Groove. Heat Treated
Lifter	Both	1984-88	<b>36-6000</b>	From 5/84. Hydraulic
Valve Stem Seal	Both	1983-88	<b>38-964-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1983-88	<b>97-0226</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 9</b>	<b>1834cc (1.8L) SOHC 16V 4G93 Vin C, D</b>			<b>1992-02 L4 BORE - 81mm/3.189"</b>
Valve	Exh	1992-02	<b>10-10499</b>	1.063 Head Dia. 0.235 Stem
	Int	1992-02	<b>10-10498</b>	1.181 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1992-93	<b>21-1187-51</b>	0.905 I.D. 1-3/16 O.D. 0.257 Depth
	Exh	1993-02	<b>21-1187-54</b>	0.880 I.D. 1-3/16 O.D. 0.280 Depth
	Int	1993-02	<b>21-1250-60</b>	1.023T I.D. 1-1/4 O.D. 0.273 Depth
Guide	Exh	1992-02	<b>30-8571</b>	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	1992-02	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1992-02	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1992-02	<b>36-6000</b>	Hydraulic. 26mm OAL. 12.9mm OD.
Valve Stem Seal	Both	1992-02	<b>38-553-55</b>	Viton. Metal Clad
<b>LINE 10</b>	<b>1996cc (2.0L) DOHC 16V A588, 420A Vin Y</b>			<b>1995-99 L4 BORE - 87.5mm/3.445"</b>
Valve	Exh	1995-99	<b>10-1731</b>	1.201 Head Dia.
	Int	1995-99	<b>10-1730</b>	1.370 Head Dia.
Guide	Both	1995-99	<b>30-8556</b>	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	1995-99	<b>32-04033</b>	1.840 Free. Revised Spring, Do Not Mix
Keeper	Both	1995-99	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1995-99	<b>36-2278</b>	Hydraulic
Valve Stem Seal	Both	1995-99	<b>38-20-45</b>	Viton. Top Hat.
Rocker Component	Both	1995-99	<b>40-2702</b>	Cam Follower
<b>LINE 11</b>	<b>1997cc (2.0L) SOHC G63B 8V, 4G63 8V Vin 5, D, V</b>			<b>1983-93 L4 BORE - 85mm/3.346"</b>
Valve	Exh	1983-93	<b>10-10142</b>	1.378 Head Dia.
	Int	1983-93	<b>10-10141</b>	1.693 Head Dia.
Valve Seat Insert	Exh	1983-93	<b>21-1500-62</b>	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Int	1983-93	<b>21-1750-61</b>	1.445T I.D. 1-3/4 O.D. 0.310 Depth.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 11</b>	<b>1997cc (2.0L) SOHC G63B 8V, 4G63 8V Vin 5, D, V</b>			<b>1983-93 L4</b>	<b>BORE - 85mm/3.346"</b>
Guide	Exh	1983-93	<b>30-7575</b>	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring	
	Exh	1983-89	<b>30-8226</b>	2.046 OAL. 0.5625 O.D.	
	Int	1983-93	<b>30-7574</b>	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.	
	Int	1983-89	<b>30-8225</b>	1.848 OAL. 0.5645 O.D.	
Spring	Both	1983-84	<b>32-1125</b>	1.875 Free Length. Before 5/84	
	Both	1984-93	<b>32-1289</b>	1.960 Free Length. After 5/84	
Keeper	Both	1983-93	<b>34-716</b>	1 Round Groove. Heat Treated	
Lifter	Both	1983-93	<b>36-6000</b>	Hydraulic	
Valve Stem Seal	Both	1983-93	<b>38-938-45</b>	Viton. Ring and Band.	
	Both	1983-93	<b>38-964-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1983-93	<b>97-0226</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 12</b>	<b>1997cc (2.0L) DOHC 16V 4G63, 4G63 Turbo Vin E,R,F,U</b>			<b>1989-99 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1989-99	<b>10-10128</b>	1.201 Head Dia. 0.2575 Stem	
	Int	1989-99	<b>10-10126</b>	1.339 Head Dia. 0.2587 Stem	
Valve Seat Insert	Exh	1989-99	<b>21-1312-64</b>	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
	Int	1989-4/92	<b>21-1437-68</b>	1.180T I.D. 1-7/16 O.D. 0.255 Depth.	
	Int	5/92-99	<b>21-1437-73</b>	1.142T I.D. 1-7/16 O.D. 0.336 Depth.	
Guide	Exh	1989-99	<b>30-8194</b>	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.	
	Int	1989-99	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.	
Lifter	Both	1989-99	<b>36-2274</b>	Hydraulic	
Valve Stem Seal	Both	1989-99	<b>38-996-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1989-99	<b>97-0226</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 13</b>	<b>1997cc (2.0L) DOHC 16V Vin C, D 4G63 Turbo</b>			<b>2003-06 L4</b>	<b>BORE - 85mm/3.35"</b>
Valve	Exh	2003-06	<b>10-10128</b>	1.201 Head Dia. Round Groove	
	Int	2003-06	<b>10-10126</b>	1.339 Head Dia	
Guide	Exh	2003-06	<b>30-8194</b>	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.	
	Int	2003-06	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.	
Keeper	Both	2003-06	<b>34-235</b>	1 Round Groove. Heat Treated	
Lifter	Both	2003-06	<b>36-2274</b>	Hydraulic Lash Adjuster. 2.051 Length	
Valve Stem Seal	Both	2003-06	<b>38-996-55</b>	Viton. Metal Clad.	
<b>LINE 14</b>	<b>1998cc (2.0L) DOHC 16V VVT Vin U 4B11</b>			<b>2008-16 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	2008-15	<b>10-13191</b>	1.148 Head Dia. 0.215 Stem	
	Int	2008-15	<b>10-13190</b>	1.378 Head Dia. 0.215 Stem	
Guide	Both	2008-15	<b>30-3154</b>	1.740 OAL	
Spring	Both	2008-15	<b>32-5003</b>	1.941 Free Length	
Keeper	Both	2008-15	<b>34-5008</b>	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2008-15	<b>38-6101-55</b>	Viton. Top Hat.	
<b>LINE 15</b>	<b>1999cc (2.0L) SOHC 16V 4G94 Vin E</b>			<b>2002-07 L4</b>	<b>BORE - 81.5mm/3.209"</b>
Valve	Exh	2002-07	<b>10-10499</b>	1.063 Head Dia. 0.235 Stem	
	Int	2002-07	<b>10-10498</b>	1.181 Head Dia. 0.235 Stem	
Guide	Exh	2002-07	<b>30-8571</b>	1.990 OAL. 0.436 O.D. 0.236 I.D.	
	Int	2002-07	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.	
Keeper	Both	2002-07	<b>34-719</b>	1 Round Groove. Heat Treated	
Lifter	Both	2002-07	<b>36-6000</b>	Hydraulic	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>1999cc (2.0L) SOHC 16V 4G94 Vin E</b>			<b>2002-07 L4 BORE - 81.5mm/3.209"</b>
Valve Stem Seal	Both	2002-07	38-553-55	Viton. Metal Clad
<b>LINE 16</b>	<b>2346cc (2.3L) SOHC Diesel 4D55 Vin 9, J</b>			<b>1983-85 L4 BORE - 97mm/3.80"</b>
Valve	Exh	1984-85	10-10416	1.339 Head Dia. From 5/84, Round Groove
	Int	1984-85	10-10415	1.575 Head Dia. From 5/84, Round Groove
Valve Seat Insert	Int	1983-85	21-1750-66	1.460T I.D. 1-3/4 O.D. 0.275 Depth
Guide	Exh	1983-85	30-7851	2.920 OAL
	Int	1983-85	30-7850	2.800 OAL
Keeper	Both	1983-85	34-716	1 Round Groove. Heat Treated
Valve Stem Seal	Both	1983-85	38-964-55	Viton. Metal Clad.
<b>LINE 17</b>	<b>2351cc (2.4L) SOHC G64B 12V, 4G64 8V Vin L, G, W</b>			<b>1985-96 L4 BORE - 86.5mm/3.40"</b>
Valve	Exh	1985-96	10-10144	1.496 Head Dia.
	Int	1985-96	10-10143	1.811 Head Dia.
Valve Seat Insert	Exh	1985-96	21-1625-56	1.298T I.D. 1-5/8 O.D. 0.317 Depth
	Int	1985-96	21-1875-51	1.575T I.D. 1-7/8 O.D. 0.317 Depth.
Guide	Exh	1985-96	30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Exh	1985-96	30-8226	2.046 OAL. 0.5625 O.D.
	Int	1985-96	30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
	Int	1985-96	30-8225	1.848 OAL. 0.5625 O.D.
Spring	Both	1985-96	32-1289	1.960 Free Length
Keeper	Both	1985-96	34-716	1 Round Groove. Heat Treated
Lifter	Both	1985-96	36-6000	Hydraulic
Valve Stem Seal	Both	1985-96	38-964-55	Viton. Metal Clad.
<b>LINE 18</b>	<b>2351cc (2.4L) SOHC, DOHC 16V 4G64 Vin G</b>			<b>1993-05 L4 BORE - 86.5mm/3.40"</b>
Valve	Exh	1993-05	10-10535	1.142 Head Dia.
	Int	1993-05	10-10534	1.299 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1993-05	21-1250-59	0.982 I.D. 1-1/4 O.D. 0.329 Depth.
	Int	1993-05	21-1375-62	1.100T I.D. 1-3/8 O.D. 0.300 Depth.
Guide	Exh	1993-05	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	1993-05	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1993-05	34-719	1 Round Groove. Heat Treated
Lifter	Both	1993-05	36-6000	Hydraulic
Valve Stem Seal	Both	1993-05	38-553-55	Viton. Metal Clad.
<b>LINE 19</b>	<b>2351cc (2.4L) DOHC 16V 4G64</b>			<b>1994-95 L4 BORE - 86.5mm/3.41"</b>
Valve	Exh	1994-95	10-10128	1.201 Head Dia
	Int	1994-95	10-10126	1.339 Head Dia
Valve Seat Insert	Exh	1994-95	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1994-95	21-1437-68	1.180T I.D. 1-7/16 O.D. 0.255 Depth.
Guide	Exh	1994-95	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1994-95	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1994-95	34-235	1 Round Groove. Heat Treated
Lifter	Both	1994-95	36-2274	Hydraulic Lash Adjuster. 2.051 Length
Valve Stem Seal	Both	1994-95	38-996-55	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 20</b>	<b>2360cc (2.4L) DOHC 16V VVT 4B12 Vin W</b>			<b>2008-16 L4</b>	<b>BORE - 88mm/3.46"</b>
Valve	Exh	2008-15	10-13191	1.148 Head Dia. 0.215 Stem	
	Int	2008-15	10-13190	1.378 Head Dia. 0.215 Stem	
Guide	Both	2008-15	30-3154	1.740 OAL. 0.2168 I.D. 0.4358 O.D.	
Spring	Both	2008-15	32-5003	1.941 Free Length	
Keeper	Both	2008-15	34-5008	1 Round Groove. 0.215 Stem Dia.	
Valve Stem Seal	Both	2008-15	38-6101-55	Viton. Top Hat.	
<b>LINE 21</b>	<b>2378cc (2.4L) SOHC 16V 4G69</b>			<b>2004-12 L4</b>	<b>BORE - 87mm/3.43"</b>
Valve	Exh	2004-12	10-3081	1.200 Head Dia.	
	Int	2004-12	10-3080	1.336 Head Dia.	
Guide	Exh	2004-12	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.	
	Int	2004-12	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.	
Lifter	Both	2004-12	36-6000	Hydraulic	
Valve Stem Seal	Both	2004-12	38-553-55	Viton. Metal Clad	
<b>LINE 22</b>	<b>2497cc (2.5L) SOHC 24V 6G73</b>			<b>1995-98 V6</b>	<b>BORE - 83.5mm/3.29"</b>
Valve	Exh	1995-98	10-10535	1.142 Head Dia.	
	Int	1995-98	10-10534	1.299 Head Dia. 0.235 Stem	
Valve Seat Insert	Exh	1995-98	21-1250-59	0.982 I.D. 1-1/4 O.D. 0.329 Depth.	
	Int	1995-98	21-1375-62	1.100T I.D. 1-3/8 O.D. 0.300 Depth.	
Guide	Exh	1995-98	30-8569	1.990 OAL. Incl. Lock Ring	
	Int	1995-98	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.	
Lifter	Both	1995-98	36-6000	Hydraulic	
Valve Stem Seal	Both	1995-98	38-938-45	Viton. Ring and Band.	
<b>LINE 23</b>	<b>2555cc (2.6L) SOHC G54B/T Turbo Vin 7, E, H, N</b>			<b>1983-89 L4</b>	<b>BORE - 91mm/3.50"</b>
Valve	Exh	1983-84	10-10091S	1.495 Head Dia. Square Groove	
	Exh	1985-89	10-10146	1.493 Head Dia. Round Groove.	
	Exh	1985-89	10-10146S	1.493 Head Dia. Stellite for Turbo. Round Groove	
	Int	1983-84	10-10092	1.810 Head Dia. Square Groove	
	Int	1985-89	10-10145	1.810 Head Dia. Round Groove.	
Valve Seat Insert	Exh	1983-89	21-1625-56	1.298T I.D. 1-5/8 O.D. 0.317 Depth	
	Int	1983-89	21-1875-51	1.575T I.D. 1-7/8 O.D. 0.317 Depth.	
Guide	Exh	1983-89	30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring	
	Exh	1983-89	30-8226	2.046 OAL. 0.5625 O.D.	
	Int	1983-89	30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.	
	Int	1983-89	30-8225	1.848 OAL. 0.5625 O.D.	
Spring	Both	1983-84	32-1125	1.875 Free Length	
	Both	1984-89	32-1289	1.960 Free Length	
Keeper	Both	1985-89	34-716	1 Round Groove. Heat Treated	
	Both	1983-84	34-813	1 Square Groove. Heat Treated	
Lifter	Both	1983-89	36-6000	83-89: Montero, Pickup RWD. Hydraulic	
Valve Stem Seal	Both	1983-89	38-964-55	Viton. Metal Clad.	
Expansion Plug Kit		1983-89	97-0216	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 24</b>	<b>2972cc (3.0L) SOHC 12V 6G72 Vin H, S</b>			<b>1988-99 V6</b>	<b>BORE - 91mm/3.50"</b>
Valve	Exh	1988-99	10-10148	1.378 Head Dia. 0.030 Shorter Than OEM.	
	Exh	1988-99	10-10625	1.378 Head Dia. OEM Length	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 24</b>	<b>2972cc (3.0L) SOHC 12V 6G72 Vin H, S</b>		<b>1988-99 V6</b>	<b>BORE - 91mm/3.50"</b>
Valve	Int	1988-99	10-10147	1.693 Head Dia. 0.030 Shorter Than OEM.
	Int	1988-99	10-10624	1.693 Head Dia. OEM Length
Valve Seat Insert	Exh	1988-99	21-1562-69	1.219 I.D. 1-9/16 O.D. 0.317 Depth.
	Exh	1988-99	21-1562-69N	1.219 I.D. 1-9/16 O.D. 0.317. Non-Magnetic Nickel
	Int	1988-99	21-1750-61	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh	1988-99	30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int	1988-99	30-7576	1.735 OAL. +2, +6 O/S Avail.
Spring	Both	1988-99	32-1289	1.960 Free Length
Keeper	Both	1988-99	34-716	1 Round Groove. Heat Treated
Lifter	Both	1988-99	36-6000	Hydraulic
Valve Stem Seal	Both	1988-99	38-964-55	Viton. Metal Clad.
Expansion Plug Kit		1988-99	97-127	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 25</b>	<b>2972cc (3.0L) DOHC 24V 6G72 &amp; Turbo, Vin B, J, C, K</b>		<b>1991-99 V6</b>	<b>BORE - 91mm/3.50"</b>
Valve	Exh	1991-99	10-10501	1.199 Head Dia.
	Int	1991-99	10-10500	1.375 Head Dia.
Valve Seat Insert	Exh	1991-99	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1991-99	21-1437-59	1.180T I.D. 1-7/16 O.D. 0.305 Depth.
Guide	Exh	1991-99	30-8194	1.990 OAL. 0.260 I.D. 0.475 O.D. +2 O/S Avail.
	Int	1991-99	30-8193	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1991-99	34-235	1 Round Groove. Heat Treated.
Lifter	Both	1991-99	36-2274	Hydraulic
Valve Stem Seal	Both	1991-99	38-964-55	Viton. Metal Clad.
<b>LINE 26</b>	<b>2972cc (3.0L) SOHC 24V 6G72 Vin P, H, F, L</b>		<b>1995-05 V6</b>	<b>BORE - 91.1mm/3.59"</b>
Valve	Exh	1995-05	10-10535	1.142 Head Dia.
	Int	1995-05	10-10534	1.299 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1995-05	21-1375-62	1.100T I.D. 1-3/8 O.D. 0.300 Depth.
	Int	1995-05	21-1250-59	0.982 I.D. 1-1/4 O.D. 0.329 Depth.
Guide	Exh	1995-05	30-8569	1.990 OAL. Incl. Lock Ring
	Int	1995-05	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1995-05	34-719	1 Round Groove. Heat Treated
Lifter	Both	1995-05	36-6000	Hydraulic
Valve Stem Seal	Both	1995-05	38-553-55	Viton. Metal Clad
<b>LINE 27</b>	<b>2998cc (3.0L) SOHC 24V 6B31 Vin X</b>		<b>2007-16 V6</b>	<b>BORE - 87.6mm/3.45"</b>
Guide	Exh	2007-15	30-8571	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	2007-15	30-8554	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	2007-15	34-719	1 Round Groove. Heat Treated
Lifter	Both	2007-15	36-6000	Hydraulic
Valve Stem Seal	Both	2007-15	38-553-55	Viton. Metal Clad
<b>LINE 28</b>	<b>3497cc (3.5L) DOHC 24V 6G74 Vin M</b>		<b>1994-96 V6</b>	<b>BORE - 91mm/3.50"</b>
Valve	Exh	1994-96	10-10501	1.199 Head Dia.
	Int	1994-96	10-10500	1.375 Head Dia.
Valve Seat Insert	Exh	1994-96	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
	Int	1994-96	21-1437-59	1.180T I.D. 1-7/16 O.D. 0.305 Depth.
Guide	Exh	1994-96	30-8194	1.990 OAL. +2 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 28</b>	<b>3497cc (3.5L) DOHC 24V 6G74 Vin M</b>		<b>1994-96 V6</b>	<b>BORE - 91mm/3.50"</b>
Guide	Int	1994-96	<b>30-8193</b>	1.795 OAL. 0.260 I.D. 0.475 O.D.
Keeper	Both	1994-96	<b>34-235</b>	1 Round Groove. Heat Treated
Lifter	Both	1994-96	<b>36-2274</b>	Hydraulic
Valve Stem Seal	Both	1994-96	<b>38-964-55</b>	Viton. Metal Clad.
<b>LINE 29</b>	<b>3497cc (3.5L) SOHC 24V 6G74 Vin R, P</b>		<b>1997-04 V6</b>	<b>BORE: 93mm/3.66"</b>
Valve	Exh	1997-04	<b>10-10535</b>	1.142 Head Dia.
	Int	1997-04	<b>10-10534</b>	1.299 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1997-04	<b>21-1250-59</b>	0.982 I.D. 1-1/4 O.D. 0.329 Depth.
	Int	1997-04	<b>21-1375-62</b>	1.100T I.D. 1-3/8 O.D. 0.300 Depth.
Guide	Exh	1997-04	<b>30-8571</b>	1.990 OAL. 0.436 O.D. 0.236 I.D.
	Int	1997-04	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	1997-04	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	1997-04	<b>36-6000</b>	Hydraulic
Valve Stem Seal	Both	1997-04	<b>38-553-55</b>	Viton. Metal Clad
<b>LINE 30</b>	<b>3701cc (3.7L) SOHC 12V (Chrysler) Vin K</b>		<b>2006-09 V6</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	2006-09	<b>10-1919</b>	1.457 Head Dia. 3 Groove
	Int	2006-09	<b>10-1918</b>	1.915 Head Dia. 3 Groove
Valve Seat Insert	Exh	2006-09	<b>21-1500-50</b>	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Exh	2006-09	<b>21-1562-66</b>	1.265T I.D. Alternate 1-9/16 O.D, Check Casting. 0.280 Depth.
	Int	2007-09	<b>21-2000-51</b>	1.690T I.D. 2.000 O.D. 0.270 Depth
Guide	Both	2006-09	<b>30-3026</b>	1.702 OAL
Spring	Both	2006-09	<b>32-2482</b>	1.950 Free Length. Revised Conical Design
Keeper	Both	2006-09	<b>34-06513</b>	3 Round Grooves
Lifter	Both	2006-09	<b>36-2271</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2006-09	<b>38-752-45</b>	Viton. Top Hat
Expansion Plug Kit		2006-09	<b>97-166</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 31</b>	<b>3828cc (3.8L) SOHC 24V 6G75 Vin S, T</b>		<b>2003-12 V6</b>	<b>BORE - 95mm/3.74"</b>
Valve	Exh	2003-10	<b>10-3083</b>	1.260 Head Dia. 0.237 Stem
	Int	2003-10	<b>10-3082</b>	1.437 Head Dia. 0.234 Stem
Guide	Exh	2003-10	<b>30-3243</b>	
	Int	2003-10	<b>30-8554</b>	1.790 OAL. 0.436 O.D. 0.236 I.D.
Keeper	Both	2003-12	<b>34-719</b>	1 Round Groove. Heat Treated
Lifter	Both	2003-12	<b>36-6000</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2003-12	<b>38-553-55</b>	Viton. Metal Clad
<b>LINE 32</b>	<b>4701cc (4.7L) SOHC 16V (Chrysler) Vin N</b>		<b>2006-07 V8</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	2006-07	<b>10-1919</b>	1.457 Head Dia. 3 Groove
	Int	2006-07	<b>10-1918</b>	1.915 Head Dia. 3 Groove
Valve Seat Insert	Exh	2006-07	<b>21-1500-50</b>	1.203T I.D. 1-1/2 O.D. 0.280 Depth. -N Nickel Also Avail.
	Exh	2006-07	<b>21-1562-66</b>	1.265T I.D. Alternate 1-9/16 O.D, Check Casting. 0.280 Depth.
	Int	2006-07	<b>21-2000-51</b>	1.690T I.D. 2.000 O.D. 0.270 Depth
Guide	Both	2006-07	<b>30-3026</b>	1.702 OAL
Spring	Both	2006-07	<b>32-2482</b>	1.950 Free Length. Revised Conical Design
Keeper	Both	2006-07	<b>34-06513</b>	3 Round Grooves
Lifter	Both	2006-07	<b>36-2271</b>	Hydraulic Lash Adjuster

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 32</b>					
4701cc (4.7L) SOHC 16V (Chrysler) Vin N		2006-07	V8	BORE - 93mm/3.66"	
Valve Stem Seal	Both	2006-07	<b>38-752-45</b>	Viton. Top Hat	
Expansion Plug Kit		2006-07	<b>97-165</b>	Steel Kit. Brass Kit Avail. In Suffix B	



<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
1.0L CG10, 1.3L CG13, 1.4L CGA3 DOHC 16V	1992-20	4	1
1189cc (1.2L) E1	1961-65	L4	2
1237cc (1.2L) A12A	1980-82	L4	3
1288cc (1.3L) A13	1974-74	L4	4
1397cc (1.4L) A14 OHV 8V	1975-89	L4	5
1488cc (1.5L) A15 OHV 8V	1972-82	L4	6
1488cc (1.5L) SOHC E15 & E15S	1982-83	L4	7
1488cc (1.5L) SOHC Turbo E15T	1983-84	L4	8
1.5L J15, 1.6L J16 Datsun	1970-84	L4	9
1588cc (1.6L) DOHC 16V (Renault) K4M	2002-10	L4	10
1595cc (1.6L) R16	1966-70	L4	11
1595cc (1.6L) L16	1968-73	L4	12
1597cc (1.6L) SOHC Carb. & F.I. E16//S	1982-92	L4	13
1597cc (1.6L) DOHC 16V CA16D,E	1987-87	L4	14
1597cc (1.6L) SOHC 12V GA16 & GA16I	1989-90	L4	15
1597cc (1.6L) DOHC 16V GA16DE Vin A, E	1991-13	L4	16
1598cc (1.6L) DOHC 16V HR16DE	2009-16	L4	17
1618cc (1.6L) DOHC 16V MR16DDT	2011-16	L4	18
1680cc (1.7L) SOHC Diesel CD17	1982-86	L4	19
1770cc (1.8L) SOHC L18	1972-74	L4	20
1798cc (1.8L) DOHC 16V MR18DE	2007-15	L4	21
1798cc (1.8L) DOHC 16V MRA8DE	2013-16	L4	22
1.8L J18 (Non-USA)	1981-94	L4	23
1809cc (1.8L) SOHC Turbo CA18ET	1984-86	L4	24
1809cc (1.8L) DOHC 16V CA18DE	1987-89	L4	25
1809cc (1.8L) DOHC 16V QG18DE	2000-06	L4	26
1952cc (2.0L) SOHC L20B	1973-80	L4	27
1952cc (2.0L) SOHC Z20E & Z20S	1980-86	L4	28
1952cc (2.0L) SOHC Z20	1983-85	L4	29
1974cc (2.0L) SOHC CA20S	1982-83	L4	30
1974cc (2.0L) SOHC CA20E	1984-89	L4	31
1995cc (2.0L) DOHC 16V QR20DE	2010-10	L4	32
1997cc (2.0L) DOHC 16V MR20DE	2007-16	L4	33
1998cc (2.0L) DOHC 16V SR20DE Vin C	1991-02	L4	34
2164cc (2.2L) Diesel SD22 8V Vin S	1981-83	L4	35
2187cc (2.2L) SOHC Z22 & Z22E	1981-88	L4	36
2389cc (2.4L) SOHC Z24 & Z24I	1983-89	L4	37
2389cc (2.4L) SOHC 12V KA24E	1989-98	L4	38
2389cc (2.4L) DOHC 16V KA24DE Vin A,B,D,M	1991-09	L4	39
2393cc (2.4L) SOHC L24/E	1970-84	L6	40
2488cc (2.5L) Diesel SD25	1983-87	L4	41
2488cc (2.5L) DOHC 16V QR25DE	2002-16	L4	42
2488cc (2.5L) DOHC 16V YD25 Diesel TRB	2007-11	L4	43
2496cc (2.5L) DOHC 24V VQ25VHR	2011-12	V6	44
2565cc (2.6L) SOHC L26	1974-74	L6	45
2753cc (2.8L) SOHC L28E	1975-83	L6	46
2753cc (2.8L) SOHC Turbo L28ET	1981-83	L6	47
2793cc (2.8L) SOHC Diesel LD28	1981-84	L6	48
2953cc (3.0L) DOHC 16V ZD30 Diesel TRB	2008-11	L4	49
2960cc (3.0L) SOHC 12V VG30,E/I/T	1984-98	V6	50
2960cc (3.0L) DOHC 24V VG30D/TT/DE Vin A	1990-97	V6	51
2960cc (3.0L) DOHC 24V VE30DE	1992-94	V6	52
2988cc (3.0L) DOHC 24V VQ30DE, Vin C	1995-01	V6	53
3272cc (3.3L) SOHC 12V VG33E, VG33ER	1996-04	V6	54

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3498cc (3.5L) DOHC 24V VQ35DE	2001-16	V6	55
3498cc (3.5L) DOHC 24V VQ35HR	2003-14	V6	56
3696cc (3.7L) DOHC 24V VQ37	2007-16	V6	57
3799cc (3.8L) DOHC 24V VR38DETT	2009-16	V6	58
3954cc (4.0L) DOHC 24V VQ40DE	2005-16	V6	59
4130cc (4.1L) DOHC 32V VH41DE	1997-01	V8	60
4494cc (4.5L) DOHC 32V VH45DE, Vin N	1990-96	V8	61
4494cc (4.5L) DOHC 32V VK45DE	2002-10	V8	62
4997cc (5.0L) DI 32V Diesel (Cummins)	2016-16	V8	63
5026cc (5.0L) DOHC 32V VK50VE	2009-14	V8	64
5552cc (5.6L) 32V DOHC VK56	2004-16	V8	65

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1.0L CG10, 1.3L CG13, 1.4L CGA3 DOHC 16V</b>			<b>1992-20 4 BORE - 71mm/2.80"</b>

Valve	Exh	1992-00	10-03038	0.886 Head Dia. Micra
	Int	1992-00	10-03037	1.083 Head Dia. Micra

<b>LINE 2</b>	<b>1189cc (1.2L) E1</b>			<b>1961-65 L4 BORE - 73mm/2.87"</b>
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Valve Seat Insert	Exh	1961-65	20-1312-6	1-1/16 I.D. 1-5/16 O.D. 7/32 Depth.
	Int	1961-65	20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.

Guide	Exh	1961-65	30-7498	2.200 OAL
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Expansion Plug Kit		1961-65	97-33	Steel Kit. Brass Kit Avail. In Suffix B
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<b>LINE 3</b>	<b>1237cc (1.2L) A12A</b>			<b>1980-82 L4 BORE - 75mm/2.953"</b>
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Valve	Exh	1980-80	10-10033S	1.188 Head Dia.
	Int	1980-80	10-10031	1.462 Head Dia. +15 O/S Stem May Be Avail.

Valve Seat Insert	Exh	1980-82	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth
	Int	1980-82	21-1500-52	1.260T I.D. 1-1/2 O.D. 0.240 Depth

Guide	Both	1980-82	30-7542	1.930 OAL.
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Spring	Both	1980-82	32-1048	1.831 Free Length
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Keeper	Both	1980-82	34-815	1 Groove. Heat Treated
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Valve Stem Seal	Both	1980-82	38-961-55	Viton. Metal Clad.
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Expansion Plug Kit		1980-82	97-33	Steel Kit. Brass Kit Avail. In Suffix B
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<b>LINE 4</b>	<b>1288cc (1.3L) A13</b>			<b>1974-74 L4 BORE - 73mm/2.874"</b>
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Valve	Exh	1974-74	10-10033S	1.188 Head Dia.
	Int	1974-74	10-10031	1.462 Head Dia. +15 O/S Stem May Be Avail.

Valve Seat Insert	Exh	1974-74	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth
	Int	1974-74	21-1500-52	1.260T I.D. 1-1/2 O.D. 0.240 Depth

Guide	Exh	1974-74	30-7542	1.930 OAL.
	Int	1974-74	30-7545	1.930 OAL.

Spring	Both	1974-74	32-1048	1.831 Free Length
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Keeper	Both	1974-74	34-815	1 Groove. Heat Treated
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Valve Stem Seal			38-961-55	Viton. Metal Clad.
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Expansion Plug Kit		1974-74	97-33	Steel Kit. Brass Kit Avail. In Suffix B
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<b>LINE 5</b>	<b>1397cc (1.4L) A14 OHV 8V</b>			<b>1975-89 L4 BORE - 76mm/2.992"</b>
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Valve	Exh	1975-89	10-10033S	1.188 Head Dia. (Sunny Non-USA)
	Int	1975-89	10-10031	1.462 Head Dia. (Sunny Non-USA)

Valve Seat Insert	Exh	1975-89	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth
	Int	1975-89	21-1500-52	1.260T I.D. 1-1/2 O.D. 0.240 Depth

Guide	Exh	1975-89	30-7542	1.930 OAL.
	Int	1975-89	30-7545	1.930 OAL.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 5</b>	<b>1397cc (1.4L) A14 OHV 8V</b>			<b>1975-89 L4</b>	<b>BORE - 76mm/2.992"</b>
Guide	Int	1975-8+	<b>30-7545</b>	1.930 OAL.	
Spring	Both	1975-82	<b>32-1048</b>	1.831 Free Length	
Keeper	Both	1975-89	<b>34-815</b>	1 Groove. Heat Treated	
Valve Stem Seal	Both	1975-89	<b>38-961-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1975-89	<b>97-33</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 6</b>	<b>1488cc (1.5L) A15 OHV 8V</b>			<b>1972-82 L4</b>	<b>BORE - 76mm/2.992"</b>
Valve	Exh	1972-82	<b>10-10033S</b>	1.188 Head Dia.	
	Int	1972-82	<b>10-10031</b>	1.462 Head Dia.	
Valve Seat Insert	Exh	1972-82	<b>21-1500-52</b>	1.260T I.D. 1-1/2 O.D. 0.240 Depth	
	Int	1972-82	<b>21-1312-52</b>	1.060T I.D. 1-5/16 O.D. 0.240 Depth	
Guide	Exh	1972-82	<b>30-7542</b>	1.930 OAL.	
	Int	1972-82	<b>30-7545</b>	1.930 OAL.	
Spring	Both	1972-82	<b>32-1048</b>	1.831 Free Length	
Keeper	Both	1972-82	<b>34-815</b>	1 Groove. Heat Treated	
Valve Stem Seal	Both	1972-82	<b>38-961-55</b>	Viton. Metal Clad.	
	Both	1972-82	<b>38-962-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1972-82	<b>97-33</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 7</b>	<b>1488cc (1.5L) SOHC E15 &amp; E15S</b>			<b>1982-83 L4</b>	<b>BORE - 76mm/2.992"</b>
Valve	Exh	1982-83	<b>10-10252</b>	1.181 Head Dia. (Tsuru non-USA)	
	Int	1982-83	<b>10-10251</b>	1.457 Head Dia. (Tsuru non-USA)	
Valve Seat Insert	Exh	1982-83	<b>21-1312-57</b>	1.060 I.D. 1-5/16 O.D. 0.280 Depth.	
	Int	1982-83	<b>21-1562-66</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
Guide	Both	1982-83	<b>30-7825</b>	2.167 OAL.	
Keeper	Both	1982-83	<b>34-5007</b>	1 Groove	
Valve Stem Seal	Both	1982-83	<b>38-988-55</b>	Polyacrylic. Metal Clad.	
Expansion Plug Kit		1982-83	<b>97-114</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 8</b>	<b>1488cc (1.5L) SOHC Turbo E15T</b>			<b>1983-84 L4</b>	<b>BORE - 76mm/2.992"</b>
Valve Seat Insert	Exh	1983-84	<b>21-1312-62</b>	1.065T I.D. 1-5/16 O.D. 0.285 Depth	
Guide	Both	1983-84	<b>30-7825</b>	2.167 OAL.	
Keeper	Both	1983-84	<b>34-5007</b>	1 Groove	
Valve Stem Seal	Both	1983-84	<b>38-988-55</b>	Polyacrylic. Metal Clad.	
Expansion Plug Kit		1983-84	<b>97-114</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 9</b>	<b>1.5L J15, 1.6L J16 Datsun</b>			<b>1970-84 L4</b>	<b>BORE - 78.0mm/3.07"</b>
Valve	Exh	1970-77	<b>10-09542</b>	1.181 Head Dia.	
<b>LINE 10</b>	<b>1588cc (1.6L) DOHC 16V (Renault) K4M</b>			<b>2002-10 L4</b>	<b>BORE - 3.10"/78.7mm</b>
Valve	Exh	2002-10	<b>10-3003</b>	1.102 Head Dia. (Platina Non-US)	
	Int	2002-10	<b>10-3002</b>	1.287 Head Dia. (Platina Non-US)	
Guide	Both	2002-10	<b>30-3217</b>	1.602 OAL.	
Valve Stem Seal	Both	2002-10	<b>38-6117-55</b>	Viton. Top Hat	
<b>LINE 11</b>	<b>1595cc (1.6L) R16</b>			<b>1966-70 L4</b>	<b>BORE - 87.2mm/3.40"</b>
Valve Seat Insert	Exh	1966-70	<b>21-1437-53</b>	1.090T I.D. 1-7/16 O.D. 0.354 Depth	
	Int	1966-70	<b>21-1812-55</b>	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.	
Keeper	Both	1966-70	<b>34-815</b>	1 Groove. Heat Treated	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>1595cc (1.6L) L16</b>		<b>1968-73 L4</b>	<b>BORE - 83mm/3.27"</b>
Valve Seat Insert	Exh	1968-73	21-1500-53	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Int	1968-73	21-1625-50	Use w/ 10-0622 Valve. 1.340T I.D. 1-5/8 O.D. 0.307 Depth
Guide	Both	1968-73	30-7499	2.313 OAL. Incl. Lock Ring
	Both	1968-73	30-7999	2.200 OAL. w/ 0.374 I.D. & Replaceable Exh. Guide. Use Caution When Removing Stepped O.D.
Spring		1968-73	32-1047	1.770 Free Length. Inner
		1973-73	32-1066	'73: Outer. 1.968 Free Length
Keeper	Both	1968-73	34-815	1 Groove. Heat Treated
Valve Stem Seal	Both	1968-73	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1968-73	97-34	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 13</b>	<b>1597cc (1.6L) SOHC Carb. &amp; F.I. E16/I/S</b>		<b>1982-92 L4</b>	<b>BORE - 76mm/2.992"</b>
Valve	Exh	1982-88	10-10256	1.185 Head Dia. Exc. Canada. (Tsuru non-USA)
	Int	1982-88	10-10255	1.460 Head Dia. Exc. Canada. (Tsuru non-USA)
Valve Seat Insert	Exh	1982-88	21-1312-57	1.060 I.D. 1-5/16 O.D. 0.280 Depth.
	Int	1982-88	21-1562-66	1.265T I.D. 1-9/16 O.D. 0.280 Depth.
Guide	Both	1982-88	30-7825	82-3/85: Both. 4/85-88: Int. 2.167 OAL.
	Exh	1985-88	30-8192	4/85-88: Exh. 2.280 OAL
Keeper	Both	1982-88	34-5007	1 Groove
Valve Stem Seal	Both	1982-88	38-988-55	Polyacrylic. Metal Clad.
Expansion Plug Kit		1982-88	97-114	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 14</b>	<b>1597cc (1.6L) DOHC 16V CA16D,E</b>		<b>1987-87 L4</b>	<b>BORE - 84.5mm/3.327"</b>
Valve	Exh	1987-87	10-10258	1.102 Head Dia.
	Int	1987-87	10-10257	1.220 Head Dia.
Valve Seat Insert	Exh	1987-87	21-1250-56	0.905T I.D. 1-1/4 O.D. 0.230 Depth.
	Int	1987-87	21-1375-54	1.022T I.D. 1-3/8 O.D. 0.230 Depth
Guide	Exh	1987-87	30-8191	1.695 OAL
	Exh	1987-87	30-8233	1.770 OAL. Pre-Cut For Seal
	Int	1987-87	30-7826	1.580 OAL. Pre-Cut For Seal
	Int	1987-87	30-8190	1.690 OAL. 0.2365 I.D. Tapered Port End
Lifter	Both	1987-87	36-2277	Hydraulic
Valve Stem Seal	Exh	1987-87	38-518-45	Viton. Metal Clad.
	Int	1987-87	38-994-55	Viton. Metal Clad.
Expansion Plug Kit		1987-87	97-0236	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 15</b>	<b>1597cc (1.6L) SOHC 12V GA16 &amp; GA16I</b>		<b>1989-90 L4</b>	<b>BORE - 76mm/2.992"</b>
Valve	Exh	1989-90	10-10260S	1.299 Head Dia.
	Int	1989-90	10-10259	1.142 Head Dia.
Valve Seat Insert	Exh	1989-90	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int	1989-90	21-1250-50	0.965T I.D. 1-1/4 O.D. 1/4 Depth
Guide	Exh	1989-90	30-8215	2.085 OAL
	Int	1989-90	30-8214	1.970 OAL
Keeper	Both	1989-90	34-5011	1 Round Groove
Valve Stem Seal	Exh	1989-90	38-518-45	Viton. Metal Clad.
	Int	1989-90	38-994-55	Viton. Metal Clad.
Expansion Plug Kit		1989-90	97-0236	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 16</b>	<b>1597cc (1.6L) DOHC 16V GA16DE Vin A, E</b>		<b>1991-13 L4</b>	<b>BORE - 76mm/2.992"</b>
Valve	Exh	1991-13	10-10225	0.945 Head Dia. (Tsuru Non-US)
	Exh	1995-99	10-10536	0.980 Head Dia.
	Int	1991-13	10-10224	1.181 Head Dia. (Tsuru Non-US)
Valve Seat Insert	Exh	1991-13	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	1991-13	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth
Guide	Exh	1991-13	30-8218	1.575 OAL
	Int	1991-13	30-8213	1.575 OAL
Spring	Both	1991-99	32-04007	1.645 Length. Excludes 96-99 Mexico MFG.
Keeper	Both	1991-13	34-5012	1 Round Groove
Lifter	Both	1991-13	36-2284	Mechanical Bucket
Valve Stem Seal	Both	1993-13	38-53-45	Viton. Metal Clad.
	Exh	1991-13	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1991-13	97-0236	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>1598cc (1.6L) DOHC 16V HR16DE</b>		<b>2009-16 L4</b>	<b>BORE - 78mm/3.07</b>
Valve	Exh	2009-16	10-13234	1.002 Head Dia. 0.1954 Stem (March Non-US)
	Int	2009-16	10-13233	1.266 Head Dia. 0.1957 Stem (March Non-US)
Guide	Both	2009-16	30-3290	1.661 OAL. 0.1972 I.D. 0.363 O.D.
Valve Stem Seal	Both	2009-16	38-53-45	Viton. Metal Clad.
<b>LINE 18</b>	<b>1618cc (1.6L) DOHC 16V MR16DDT</b>		<b>2011-16 L4</b>	<b>BORE - 79.7mm/3.14"</b>
Keeper	Both	2011-15	34-5012	1 Round Groove
Valve Stem Seal	Both	2011-15	38-53-45	Viton. Metal Clad.
<b>LINE 19</b>	<b>1680cc (1.7L) SOHC Diesel CD17</b>		<b>1982-86 L4</b>	<b>BORE - 80mm/3.15"</b>
Valve	Exh	1982-86	10-10262S	1.220 Head Dia.
Valve Seat Insert	Exh	1982-86	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
	Int	1982-86	21-1500-69	1.255 I.D. 1-1/2 O.D. 0.318 Depth.
Guide	Exh	1982-86	30-8233	1.770 OAL. Pre Cut For Seal Tapered Port End
	Int	1982-86	30-7826	1.770 OAL. Pre Cut For Seal, Plain Port End
Valve Stem Seal	Both	1982-86	38-985-55	Viton. Metal Clad.
<b>LINE 20</b>	<b>1770cc (1.8L) SOHC L18</b>		<b>1972-74 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1972-74	10-10036S	1.382 Head Dia.
	Int	1972-74	10-10015	1.648 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1972-74	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Int	1972-74	21-1812-50	1.490T I.D. 1-13/16 O.D. 0.307 Depth.
Guide	Both	1972-74	30-7499	2.313 OAL. Incl. Lock Ring
Spring	Both	1973-74	32-1047	1.770 Free Length. Inner
	Both	1973-74	32-1066	1.968 Free Length. Outer
Keeper	Both	1972-74	34-815	1 Groove. Heat Treated
Valve Stem Seal	Both	1972-74	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1972-74	97-34	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 21</b>	<b>1798cc (1.8L) DOHC 16V MR18DE</b>		<b>2007-15 L4</b>	<b>BORE - 84mm/3.31"</b>
Valve	Exh	2007-14	10-3087	1.093 Head Dia. 0.215 I.D. Versa (US) Tiida (Non-US)
	Int	2007-14	10-3086	1.336 Head Dia. 0.215 I.D. Versa (US) Tiida (Non-US)
Guide	Both	2007-14	30-3289	1.753 OAL. 0.375 O.D. 0.2165 I.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 21</b>	<b>1798cc (1.8L) DOHC 16V MR18DE</b>		<b>2007-15 L4</b>	<b>BORE - 84mm/3.31"</b>
Guide	Exh	2007-14	30-3245	1.753 OAL. 0.375 O.D. 0.1935 I.D. Req. Reaming
	Int	2007-14	30-3244	1.753 OAL. 0.375 O.D. 0.195 I.D. Req. Reaming
Spring	Int	2007-14	32-5006	1.694 Free Length
Keeper	Both	2007-14	34-5012	1 Round Groove
Valve Stem Seal	Both	2007-14	38-53-45	Viton. Metal Clad
<b>LINE 22</b>	<b>1798cc (1.8L) DOHC 16V MRA8DE</b>		<b>2013-16 L4</b>	<b>BORE - 79.7mm/3.14"</b>
Keeper	Both	2013-15	34-5012	1 Round Groove
Valve Stem Seal	Both	2013-15	38-53-45	Viton. Metal Clad.
<b>LINE 23</b>	<b>1.8L J18 (Non-USA)</b>		<b>1981-94 L4</b>	<b>BORE - 80.5mm/3.17"</b>
Valve	Exh	1981-94	10-09572	1.382 Head Dia.
	Int	1981-94	10-09571	1.579 Head Dia.
<b>LINE 24</b>	<b>1809cc (1.8L) SOHC Turbo CA18ET</b>		<b>1984-86 L4</b>	<b>BORE - 83mm/3.2677"</b>
Valve Seat Insert	Exh	1984-86	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Int	1984-86	21-1750-64	1.454 I.D. 1-3/4 O.D. 0.277 Depth
Guide	Exh	1984-86	30-8233	1.770 OAL. Pre Cut For Seal Tapered Port End
	Int	1984-86	30-7826	1.770 OAL. Pre Cut For Seal, Plain Port End
Spring	Both	1984-86	32-1400	Inner. 1.725 Free Length
Keeper	Int	1984-86	34-5007	1 Groove
Valve Stem Seal	Both	1984-86	38-985-55	Viton. Metal Clad. 0.276 Stem
Expansion Plug Kit		1984-86	97-0236	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 25</b>	<b>1809cc (1.8L) DOHC 16V CA18DE</b>		<b>1987-89 L4</b>	<b>BORE - 83mm/3.2677"</b>
Valve	Exh	1988-89	10-10258	1.102 Head Dia.
	Int	1988-89	10-10263	1.339 Head Dia.
Valve Seat Insert	Exh	1988-89	21-1250-56	0.905T I.D. 1-1/4 O.D. 0.230 Depth.
	Int	1988-89	21-1500-74	1.180T I.D. 1-1/2 O.D. 0.214 Depth.
Guide	Exh	1988-89	30-8191	1.695 OAL. Plain Port End
	Exh	1988-89	30-8233	1.770 OAL. Pre Cut For Seal Tapered Port End
	Int	1987-89	30-7826	1.770 OAL. Pre Cut For Seal, Plain Port End
	Int	1988-89	30-8190	1.690 OAL. 0.2365 I.D. Tapered Port End
Lifter	Both	1988-89	36-2277	Pulsar. Hydraulic
Valve Stem Seal	Both	1988-89	38-994-55	Viton. Metal Clad.
Expansion Plug Kit		1988-89	97-0236	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 26</b>	<b>1809cc (1.8L) DOHC 16V QG18DE</b>		<b>2000-06 L4</b>	<b>BORE - 80mm/3.15"</b>
Valve	Exh	2000-06	10-10536	0.984 Head Dia.
	Int	2000-06	10-10224	1.181 Head Dia.
Valve Seat Insert	Exh	2000-06	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	2000-06	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth
Guide	Exh	2000-06	30-8218	1.575 OAL
	Int	2000-06	30-8213	1.575 OAL
Spring	Both	2000-00	32-04007	1.645 Free Length. CA Only
Keeper	Both	2000-06	34-5012	1 Round Groove
Lifter	Both	2000-06	36-2284	Mechanical Bucket
Valve Stem Seal	Both	2000-06	38-53-45	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 26</b>	<b>1809cc (1.8L) DOHC 16V QG18DE</b>		<b>2000-06 L4</b>	<b>BORE - 80mm/3.15"</b>
Expansion Plug Kit		2000-06	97-114	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 27</b>	<b>1952cc (2.0L) SOHC L20B</b>		<b>1973-80 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1974-80	10-10036S	1.382 Head Dia.
	Int	1974-80	10-10015	1.648 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1974-80	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Int	1974-80	21-1812-50	1.490T I.D. 1-13/16 O.D. 0.307 Depth.
Guide	Both	1974-80	30-7499	2.313 OAL. Incl. Lock Ring
Spring	Both	1974-80	32-1047	1.770 Free Length. Inner
	Both	1974-80	32-1066	1.968 Free Length. Outer
Keeper	Both	1974-80	34-815	1 Groove. Heat Treated
Valve Stem Seal	Both	1973-80	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1973-80	97-34	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 28</b>	<b>1952cc (2.0L) SOHC Z20E &amp; Z20S</b>		<b>1980-86 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1980-86	10-10269	1.500 Head Dia.
	Int	1980-86	10-10268	1.658 Head Dia.
Valve Seat Insert	Exh	1980-86	21-1625-53	1.255T I.D. 1-5/8 O.D. 0.300 Depth
	Int	1980-86	21-1812-54	1.405T I.D. 1-13/16 O.D. 0.315 Depth.
Guide	Both	1980-86	30-7499	2.313 OAL. Incl. Lock Ring
Keeper	Both	1980-86	34-815	1 Groove. Heat Treated
Valve Stem Seal	Both	1980-86	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit	Both	1980-86	97-0228	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 29</b>	<b>1952cc (2.0L) SOHC Z20</b>		<b>1983-85 L4</b>	<b>BORE - 85mm/3.346"</b>
Valve	Exh	1983-85	10-10267	1.496 Head Dia.
	Int	1983-85	10-10266	1.654 Head Dia.
Valve Seat Insert	Exh	1983-85	21-1625-53	1.255T I.D. 1-5/8 O.D. 0.300 Depth
	Int	1983-85	21-1812-54	1.405T I.D. 1-13/16 O.D. 0.315 Depth.
Guide	Both	1983-85	30-7499	2.313 OAL. Incl. Lock Ring
Spring	Both	1983-85	32-1198	1.725 Free Length. Inner
	Both	1983-85	32-1199	2.010 Free Length. Outer
Keeper	Both	1983-85	34-815	1 Groove. Heat Treated
Valve Stem Seal	Both	1983-85	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1983-85	97-0228	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 30</b>	<b>1974cc (2.0L) SOHC CA20S</b>		<b>1982-83 L4</b>	<b>BORE - 84.5mm/3.327"</b>
Valve	Exh	1982-83	10-10271	1.381 Head Dia.
	Int	1982-83	10-10272	1.578 Head Dia.
Valve Seat Insert	Exh	1982-83	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Int	1982-83	21-1750-64	1.454 I.D. 1-3/4 O.D. 0.277 Depth
Guide	Exh	1982-83	30-8233	1.770 OAL. Pre-Cut For Seal
	Int	1982-83	30-7826	1.580 OAL. Pre-Cut For Seal
Keeper	Both	1982-83	34-5007	1 Groove
Valve Stem Seal	Both	1982-83	38-985-55	Viton. Metal Clad.
Expansion Plug Kit		1982-83	97-0236	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 31</b>	<b>1974cc (2.0L) SOHC CA20E</b>			<b>1984-89 L4</b>	<b>BORE - 84.5mm/3.327"</b>
Valve	Exh	1984-89	10-10271	1.381 Head Dia.	
	Int	1984-89	10-10270	1.617 Head Dia.	
Valve Seat Insert	Exh	1984-89	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1984-89	21-1750-64	1.454 I.D. 1-3/4 O.D. 0.277 Depth	
Guide	Exh	1984-89	30-8233	1.770 OAL. Pre Cut For Seal Tapered Port End	
	Int	1984-89	30-7826	1.770 OAL. Pre Cut For Seal, Plain Port End	
Spring	Both	1984-89	32-1400	Inner. 1.725 Free Length	
Keeper	Both	1984-89	34-5007	1 Groove	
Valve Stem Seal	Both	1984-89	38-985-55	Viton. Metal Clad.	
Expansion Plug Kit		1984-89	97-0236	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 32</b>	<b>1995cc (2.0L) DOHC 16V QR20DE</b>			<b>2010-10 L4</b>	<b>BORE - 84mm/3.31"</b>
No Parts Available			00		
<b>LINE 33</b>	<b>1997cc (2.0L) DOHC 16V MR20DE</b>			<b>2007-16 L4</b>	<b>BORE - 84mm/3.31"</b>
Valve	Exh	2007-15	10-3087	1.093 Head Dia. Tiida (Non-US)	
	Int	2007-15	10-3086	1.336 Head Dia. Tiida (Non-US)	
Guide	Both	2007-15	30-3289	1.753 OAL. 0.375 O.D. 0.2165 I.D.	
	Exh	2007-15	30-3245	1.753 OAL. 0.375 O.D. 0.1935 I.D. Req. Reaming	
	Int	2007-15	30-3244	1.753 OAL. 0.375 O.D. 0.195 I.D. Req. Reaming	
Spring	Int	2007-15	32-5006	1.694 Free Length	
Keeper	Both	2007-15	34-5012	1 Round Groove	
Valve Stem Seal	Both	2007-15	38-53-45	Viton. Metal Clad	
<b>LINE 34</b>	<b>1998cc (2.0L) DOHC 16V SR20DE Vin C</b>			<b>1991-02 L4</b>	<b>BORE - 86mm/3.38"</b>
Valve	Exh	1991-99	10-10229	1.181 Head Dia. 4.028 Length	
	Exh	2000-02	10-10795	1.181 Head Dia. 3.909 Length	
	Int	1991-99	10-10228	1.339 Head Dia. 3.991 Length	
	Int	2000-02	10-10794	1.339 Head Dia. 3.872 Length	
Valve Seat Insert	Exh	1991-02	21-1250-57	0.982T I.D. 1-1/4 O.D. 0.212 Depth	
Guide	Exh	1991-02	30-8217	1.690 OAL. 0.2365 I.D. Plain Port End	
	Int	1991-02	30-8216	1.690 OAL. 0.2365 I.D. Tapered Port End	
Keeper	Both	1991-02	34-5011	1 Round Groove	
Lifter	Both	1991-02	36-2285	Hydraulic	
Valve Stem Seal	Both	1991-02	38-994-55	Viton. Metal Clad.	
<b>LINE 35</b>	<b>2164cc (2.2L) Diesel SD22 8V Vin S</b>			<b>1981-83 L4</b>	<b>BORE - 83mm/3.27"</b>
Valve Seat Insert	Exh	1981-83	21-1437-60	1.125 I.D. 1-7/16 O.D. 0.257 Depth	
	Int	1981-83	21-1562-68	1.300T I.D. 1-9/16 O.D. 0.256 Depth	
<b>LINE 36</b>	<b>2187cc (2.2L) SOHC Z22 &amp; Z22E</b>			<b>1981-88 L4</b>	<b>BORE - 87mm/3.40"</b>
Valve	Exh	1981-83	10-10269	1.500 Head Dia.	
	Int	1981-83	10-10268	1.658 Head Dia.	
Valve Seat Insert	Exh	1981-83	21-1625-53	1.255T I.D. 1-5/8 O.D. 0.300 Depth	
	Int	1981-83	21-1812-54	1.405T I.D. 1-13/16 O.D. 0.315 Depth.	
Guide	Both	1981-83	30-7828	2.660 OAL. +2 O/S Avail.	
Keeper	Both	1981-83	34-815	1 Groove. Heat Treated	
Valve Stem Seal	Both	1981-83	38-962-45	Viton. Ring And Spring.	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 36</b>	<b>2187cc (2.2L) SOHC Z22 &amp; Z22E</b>		<b>1981-88 L4</b>	<b>BORE - 87mm/3.40"</b>
Expansion Plug Kit		1981-83	97-0228	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 37</b>	<b>2389cc (2.4L) SOHC Z24 &amp; Z24I</b>		<b>1983-89 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	1983-89	10-10269	1.500 Head Dia.
	Int	1983-89	10-10268	1.658 Head Dia.
Valve Seat Insert	Exh	1983-89	21-1625-60	1-1/4T I.D. 1-5/8 O.D. 0.293 Depth
	Int	1983-89	21-1812-56	1.535 I.D. 1-13/16 O.D. 0.293 Depth.
Guide	Both	1983-89	30-7828	2.660 OAL. +2 O/S Avail.
Spring	Both	1989-89	32-1400	Inner. 1.725 Free Length
Keeper	Both	1983-89	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1983-89	38-962-45	Viton. Ring And Spring.
	Exh	1983-89	38-986-25	Polyacrylic. Ring And Spring.
	Int	1983-89	38-985-55	Viton. Metal Clad.
Expansion Plug Kit		1983-89	97-0228	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 38</b>	<b>2389cc (2.4L) SOHC 12V KA24E</b>		<b>1989-98 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	1989-98	10-10274S	1.575 Head Dia. 0.313 Stem
	Int	1989-98	10-10273	1.339 Head Dia. 0.2745 Stem
Valve Seat Insert	Exh	1989-98	21-1687-56	1.375T I.D. 1-11/16 O.D. 0.295 Depth.
	Int	1989-98	21-1500-53	1.180T I.D. 1-1/2 O.D. 0.307 Depth
Guide	Exh	1989-98	30-8212	2.205 OAL. 0.4745 O.D.
	Int	1989-98	30-8211	2.070 OAL 0.435 O.D.
Spring	Exh	1989-98	32-1530	Outer. 2.100 Free Length
	Int	1989-98	32-1537	Inner. 2.120 Free Length
Keeper	Both	1989-98	34-5010	1 Groove. OEM # 13210-40F00
Lifter	Both	1989-98	36-7085	Lash Adjuster From Inside Rocker Arm
Valve Stem Seal	Exh	1989-98	38-962-45	Viton. Ring And Spring.
	Int	1989-98	38-985-55	Viton. Metal Clad.
Expansion Plug Kit		1989-98	97-0228	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 39</b>	<b>2389cc (2.4L) DOHC 16V KA24DE Vin A,B,D,M</b>		<b>1991-09 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	1991-98	10-10227S	1.232 Head Dia. Does Not Fit '98 Altima
	Exh	1998-09	10-10793S	1.232 Head Dia. 0.234 Tip End Relief Dia. Exc. 00-01 Altima, 98 240SX. (Urvan Non-USA)
	Exh	2000-01	10-2182S	1.234 Head Dia. Altima
	Int	1991-98	10-10226	1.441 Head Dia. 3.989 OAL. Does Not Fit '98 Altima
	Int	1998-09	10-10792	1.441 Head Dia. 0.234 Tip End Relief Dia. Exc. 00-01 Altima, 98 240SX. (Urvan Non-USA)
	Int	2000-01	10-2181	1.443 Head Dia. Altima
Valve Seat Insert	Exh	1991-00	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth
	Int	1991-00	21-1500-74	1.180T I.D. 1-1/2 O.D. 0.214 Depth.
Guide	Exh	1991-09	30-8204	1.550 OAL
	Int	1991-09	30-8211	2.070 OAL
Keeper	Both	1991-98	34-5010	1 Round Groove. Exc. '98 Altima
	Both	1998-09	34-5011	1 Round Groove. Exc. '98 240SX
Lifter	Both	1991-09	36-2286	Mechanical. Exc. 00-01 Altima
Valve Stem Seal	Both	1996-09	38-503-55	Viton. Metal Clad.
	Both	1991-95	38-985-55	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 39</b>	<b>2389cc (2.4L) DOHC 16V KA24DE Vin A,B,D,M</b>		<b>1991-09 L4</b>	<b>BORE - 89mm/3.50"</b>
Expansion Plug Kit		1991-09	97-0228	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 40</b>	<b>2393cc (2.4L) SOHC L24/E</b>		<b>1970-84 L6</b>	<b>BORE - 83mm/3.2677"</b>
Valve	Exh	1977-84	10-10036S	1.382 Head Dia.
	Int	1977-84	10-10015	1.648 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1977-84	21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth
	Int	1977-84	21-1750-52	1.455T I.D. 1-3/4 O.D. 0.307 Depth
Guide	Both	1970-84	30-7499	2.313 OAL. Incl. Lock Ring
Spring	Both	1977-84	32-1047	1.770 Free Length. Inner
	Both	1977-84	32-1066	1.968 Free Length. Outer
Keeper	Both	1977-84	34-815	1 Groove. Heat Treated
	Both	1970-73	34-819	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1970-84	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1970-84	97-35	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 41</b>	<b>2488cc (2.5L) Diesel SD25</b>		<b>1983-87 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	1983-87	10-10276S	1.339 Head Dia.
	Int	1983-87	10-10275	1.575 Head Dia.
Valve Seat Insert	Exh	1983-87	21-1500-70	1.203 I.D. 1-1/2 O.D. 0.283 Depth
	Int	1983-87	21-1625-59	1.380 I.D. 1-5/8 O.D. 0.257 Depth
Guide	Both	1983-87	30-8209	2.045 OAL
Valve Stem Seal	Both	1983-87	38-962-45	Viton. Ring And Spring.
Expansion Plug Kit		1983-87	97-35	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 42</b>	<b>2488cc (2.5L) DOHC 16V QR25DE</b>		<b>2002-16 L4</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2007-13	10-13080	1.206 Head Dia. 0.1535 Tip to Groove. 3.856 OAL
	Exh	2013-16	10-30107	1.197 Head Dia. 0.2346 Stem. 4.044 OAL
	Exh	2002-15	10-3181	1.209 Head Dia. 0.236 Stem. 0.1851 Tip to Groove. 3.890 OAL (X-Trail Non-US)
	Int	2007-13	10-13079	1.405 Head Dia. 0.1515 Tip to Groove. 3.815 OAL.
	Int	2013-16	10-30106	1.400 Head Dia. 0.235 Stem. 4.004 OAL.
	Int	2002-15	10-3180	1.402 Head Dia. 0.236 Stem. 0.1851 Tip to Groove. 3.827 OAL. (X-Trail Non-US)
Guide	Exh	2002-16	30-8217	1.690 OAL. 0.2365 I.D. Plain Port End
	Int	2002-16	30-8216	1.690 OAL. 0.2365 I.D. Tapered Port End
Spring	Exh	2002-16	32-5007	1.754 Free Length
	Int	2002-16	32-5006	1.694 Free Length
Keeper	Both	2002-16	34-5012	1 Round Groove
Valve Stem Seal	Both	2002-16	38-994-55	Viton. Metal Clad.
<b>LINE 43</b>	<b>2488cc (2.5L) DOHC 16V YD25 Diesel TRB</b>		<b>2007-11 L4</b>	<b>BORE - 89mm</b>
Valve	Exh	2007-11	10-30113	1.031 Head Dia.
	Int	2007-11	10-30112	1.110 Head Dia.
<b>LINE 44</b>	<b>2496cc (2.5L) DOHC 24V VQ25VHR</b>		<b>2011-12 V6</b>	<b>BORE - 85mm/3.35"</b>
Keeper	Both	2011-12	34-5012	1 Round Groove
Valve Stem Seal	Both	2011-12	38-994-55	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 45</b>	<b>2565cc (2.6L) SOHC L26</b>			<b>1974-74 L6</b>	<b>BORE - 83mm/3.267"</b>
Valve	Exh	1974-74	<b>10-10036S</b>	1.382 Head Dia.	
	Int	1974-74	<b>10-10015</b>	1.648 Head Dia. +15 O/S Stem May Be Avail.	
Valve Seat Insert	Exh	1974-74	<b>21-1500-54</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1974-74	<b>21-1750-52</b>	1.455T I.D. 1-3/4 O.D. 0.307 Depth	
Guide	Both	1974-74	<b>30-7499</b>	2.313 OAL. Incl. Lock Ring	
Spring	Both	1974-74	<b>32-1047</b>	1.770 Free Length. Inner	
	Both	1974-74	<b>32-1066</b>	1.968 Free Length. Outer	
Keeper	Both	1974-74	<b>34-815</b>	1 Groove. Heat Treated	
Valve Stem Seal	Both	1974-74	<b>38-962-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1974-74	<b>97-35</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 46</b>	<b>2753cc (2.8L) SOHC L28E</b>			<b>1975-83 L6</b>	<b>BORE - 86mm/3.386"</b>
Valve	Exh	1975-80	<b>10-10036S</b>	1.382 Head Dia. 4.619 OAL	
	Exh	1981-83	<b>10-10278S</b>	1.378 Head Dia. 4.537 OAL	
	Int	1975-80	<b>10-10056</b>	1.738 Head Dia. 4.580 OAL	
	Int	1981-83	<b>10-10277</b>	1.732 Head Dia. 4.500 OAL	
Valve Seat Insert	Exh	1975-83	<b>21-1500-54</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1975-83	<b>21-1812-51</b>	1.530T I.D. 1-13/16 O.D. 0.307 Depth.	
Guide	Both	1975-83	<b>30-7499</b>	2.313 OAL. Incl. Lock Ring	
Spring	Both	1975-83	<b>32-1047</b>	1.770 Free Length. Inner	
	Both	1975-83	<b>32-1066</b>	1.968 Free Length. Outer	
Keeper	Both	1975-83	<b>34-815</b>	1 Groove. Heat Treated	
Valve Stem Seal	Both	1975-83	<b>38-962-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1975-83	<b>97-35</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 47</b>	<b>2753cc (2.8L) SOHC Turbo L28ET</b>			<b>1981-83 L6</b>	<b>BORE - 86mm/3.386"</b>
Valve	Exh	1981-83	<b>10-10278S</b>	1.378 Head Dia.	
	Int	1981-83	<b>10-10277</b>	1.732 Head Dia.	
Valve Seat Insert	Exh	1981-83	<b>21-1500-54</b>	1.180T I.D. 1-1/2 O.D. 0.307 Depth	
	Int	1981-83	<b>21-1812-51</b>	1.530T I.D. 1-13/16 O.D. 0.307 Depth.	
Guide	Both	1981-83	<b>30-7499</b>	2.313 OAL. Incl. Lock Ring	
Spring	Both	1981-83	<b>32-1047</b>	1.770 Free Length. Inner	
	Both	1981-83	<b>32-1066</b>	1.968 Free Length. Outer	
Keeper	Both	1981-83	<b>34-815</b>	1 Groove. Heat Treated	
Valve Stem Seal	Both	1981-83	<b>38-962-45</b>	Viton. Ring And Spring.	
Expansion Plug Kit		1981-83	<b>97-35</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 48</b>	<b>2793cc (2.8L) SOHC Diesel LD28</b>			<b>1981-84 L6</b>	<b>BORE - 84.5mm/3.327"</b>
Valve	Exh	1981-84	<b>10-10280S</b>	1.260 Head Dia.	
	Int	1981-84	<b>10-10279</b>	1.535 Head Dia.	
Valve Seat Insert	Exh	1981-84	<b>21-1437-61</b>	1.162 I.D. 1-7/16 O.D. 0.310 Depth	
	Int	1981-84	<b>21-1687-53</b>	1.338T I.D. 1-11/16 O.D. 0.309 Depth	
Guide	Both	1981-84	<b>30-7499</b>	2.313 OAL. Incl. Lock Ring	
Keeper	Both	1981-84	<b>34-815</b>	1 Groove. Heat Treated	
Valve Stem Seal	Both	1981-84	<b>38-962-45</b>	Viton. Ring And Spring.	
<b>LINE 49</b>	<b>2953cc (3.0L) DOHC 16V ZD30 Diesel TRB</b>			<b>2008-11 L4</b>	<b>BORE - 96mm/3.78"</b>
Valve	Exh	2008-11	<b>10-30123</b>	1.180 Head Dia. 0.273 Stem.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 49</b>	<b>2953cc (3.0L) DOHC 16V ZD30 Diesel TRB</b>			<b>2008-11 L4</b>	<b>BORE - 96mm/3.78"</b>
Valve	Int	2008-11	10-30122	1.260 Head Dia. 0.274 Stem	
<b>LINE 50</b>	<b>2960cc (3.0L) SOHC 12V VG30,E/I/T</b>			<b>1984-98 V6</b>	<b>BORE - 87mm/3.40"</b>
Valve	Exh	1984-95	10-10282	1.382 Head Dia.	
	Exh	1996-98	10-10282S	1.382 Head Dia. Stellite Faced	
	Int	1984-98	10-10281	1.657 Head Dia. 0.2744 Stem	
Valve Seat Insert	Exh	1984-98	21-1500-68	1.179T I.D. 1-1/2 O.D. 0.293 Depth.	
	Int	1984-98	21-1812-55	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.	
Guide	Exh	1984-98	30-8017	2.500 OAL. Head Must Be Reamed To 0.4793/.4802	
	Exh	1984-98	30-8389	2.500 OAL. Std. O.D. 0.474	
	Int	1984-98	30-7873	2.315 OAL. Head Must Be Reamed To 0.440/.4408	
	Int	1984-98	30-8388	2.315 OAL. 0.4345 O.D.	
Spring	Both	1984-98	32-1400	Inner. 1.725 Free Length	
Keeper	Both	1984-98	34-5007	1 Groove	
Lifter	Both	1984-98	36-2198	Hydraulic	
Valve Stem Seal	Exh	1984-98	38-962-45	Viton. Ring And Spring.	
	Exh	1984-98	38-986-25	Polyacrylic. Ring And Spring.	
	Int	1984-98	38-985-55	Viton. Metal Clad.	
Expansion Plug Kit		1984-98	97-0230	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 51</b>	<b>2960cc (3.0L) DOHC 24V VG30D/TT/DE Vin A</b>			<b>1990-97 V6</b>	<b>BORE - 87mm/3.43"</b>
Valve	Exh	1990-97	10-10285S	1.164 Head Dia. Stellite. 0.2353 Stem	
	Int	1990-97	10-10284	1.339 Head Dia. 0.2354 Stem	
Valve Seat Insert	Exh	1990-97	21-1312-63	0.965T I.D. 1-5/16 O.D. 0.235 Depth	
	Int	1990-97	21-1500-77	1.175T I.D. 1-1/2 O.D. 0.236 Depth.	
Guide	Exh	1990-97	30-8544	1.940 OAL	
	Int	1990-97	30-8543	1.815 OAL	
Spring	Both	1990-97	32-04048	1.720 Free Length	
Lifter	Both	1990-97	36-2277	Hydraulic	
Valve Stem Seal	Both	1990-97	38-518-45	Viton. Metal Clad.	
	Both	1990-97	38-994-55	Viton. Metal Clad.	
	Exh	1990-97	38-986-25	Polyacrylic. Ring And Spring.	
Expansion Plug Kit		1990-97	97-0230	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 52</b>	<b>2960cc (3.0L) DOHC 24V VE30DE</b>			<b>1992-94 V6</b>	<b>BORE - 87mm/3.40"</b>
Valve Seat Insert	Exh	1992-94	21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth	
	Int	1992-94	21-1500-77	1.175T I.D. 1-1/2 O.D. 0.236 Depth.	
Guide	Exh	1992-94	30-8544	1.940 OAL	
	Int	1992-94	30-8543	1.815 OAL	
Spring	Both	1992-94	32-04006	1.800 Free Length	
Lifter	Both	1992-94	36-2285	Maxima	
Valve Stem Seal	Both	1992-94	38-994-55	Viton. Metal Clad.	
	Exh	1992-94	38-986-25	Polyacrylic. Ring And Spring.	
	Int	1992-94	38-985-55	Viton. Metal Clad.	
Expansion Plug Kit		1992-94	97-0230	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 53</b>	<b>2988cc (3.0L) DOHC 24V VQ30DE, Vin C</b>			<b>1995-01 V6</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	1995-01	10-10538	1.417 Head Dia.	

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# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 53</b>	<b>2988cc (3.0L) DOHC 24V VQ30DE, Vin C</b>		<b>1995-01 V6</b>	<b>BORE - 93mm/3.66"</b>
Valve	Int	1995-01	10-10537	1.232 Head Dia.
Guide	Exh	1995-01	30-8217	1.690 OAL. Plain Port End
	Int	1995-01	30-8190	1.690 OAL. 0.2365 I.D. Tapered Port End
Spring	Both	1995-01	32-04005	1.855 Length
Keeper	Both	1995-01	34-5012	1 Round Groove
Valve Stem Seal	Both	1995-01	38-518-45	Viton. Metal Clad.
	Both	1995-01	38-994-55	Viton, Metal Clad.
<b>LINE 54</b>	<b>3272cc (3.3L) SOHC 12V VG33E, VG33ER</b>		<b>1996-04 V6</b>	<b>BORE - 91.5mm/3.60"</b>
Valve	Exh	1996-04	10-10282	1.382 Head Dia.
	Exh	1996-04	10-10282S	1.382 Head Dia. Stellite Faced
	Int	1996-04	10-10281	1.657 Head Dia. 0.2744 Stem
Valve Seat Insert	Exh	1996-04	21-1500-68	1.179T I.D. 1-1/2 O.D. 0.293 Depth.
	Int	1996-04	21-1812-55	1-1/2T I.D. 1-13/16 O.D. 0.278 Depth.
Guide	Exh	1996-04	30-8389	2.500 OAL. 0.474 O.D.
	Int	1996-04	30-8388	2.315 OAL. 0.4345 O.D. +2 O/S Avail.
Keeper	Both	1996-04	34-5007	1 Groove
Lifter	Both	1996-04	36-2198	Hydraulic
Valve Stem Seal	Exh	1996-04	38-962-45	Viton. Ring And Spring.
	Int	1996-04	38-503-55	Viton. Metal Clad.
Expansion Plug Kit		1996-04	97-0230	Steel Kit. Brass Kit Avail. In Suffix -B
<b>LINE 55</b>	<b>3498cc (3.5L) DOHC 24V VQ35DE</b>		<b>2001-16 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Valve	Exh	2001-09	10-03030	1.236 Head Dia. 3.702 OAL. 0.234 Stem
	Exh	2007-15	10-13221	1.195 Head Dia. 3.730 OAL. 0.2349 Stem
	Int	2001-09	10-03029	1.465 Head Dia. 3.795 OAL. 0.235 Stem
	Int	2007-15	10-13220	1.449 Head Dia. 3.825 OAL. 0.2352 Stem
Guide	Exh	2001-15	30-8217	1.690 OAL. 0.2365 I.D. 0.3953 O.D. Plain Port End.
	Int	2001-15	30-8190	1.690 OAL. 0.2365 I.D. Tapered Port End
Keeper	Both	2001-15	34-5012	1 Round Groove
Valve Stem Seal	Both	2001-15	38-994-55	Viton. Metal Clad.
<b>LINE 56</b>	<b>3498cc (3.5L) DOHC 24V VQ35HR</b>		<b>2003-14 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Valve	Exh	2003-13	10-13221	1.195 Head Dia. 3.730 OAL. 0.2349 Stem
	Int	2003-13	10-13220	1.449 Head Dia. 3.825 OAL. 0.2352 Stem
Guide	Exh	2003-13	30-8217	1.690 OAL. 0.2365 I.D. Plain Port End
	Int	2003-13	30-8190	1.690 OAL. 0.2365 I.D. Tapered Port End
Keeper	Both	2003-14	34-5012	1 Round Groove
Valve Stem Seal	Both	2003-14	38-994-55	Viton. Metal Clad.
<b>LINE 57</b>	<b>3696cc (3.7L) DOHC 24V VQ37</b>		<b>2007-16 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Valve	Exh	2007-16	10-13221	1.195 Head Dia. 3.730 OAL. 0.2349 Stem
Guide	Exh	2007-16	30-8217	1.580 OAL. 0.2365 I.D. 0.3955 O.D.
	Int	2007-16	30-8190	1.580 OAL. 0.2365 I.D. 0.3950 O.D.
Keeper	Both	2007-16	34-5012	1 Round Groove
Valve Stem Seal	Both	2007-16	38-994-55	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 58</b>	<b>3799cc (3.8L) DOHC 24V VR38DETT</b>		<b>2009-16 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Keeper	Both	2009-15	34-5012	1 Round Groove
<b>LINE 59</b>	<b>3954cc (4.0L) DOHC 24V VQ40DE</b>		<b>2005-16 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Valve	Exh	2005-15	10-03030	1.236 Head Dia.
	Int	2005-15	10-03029	1.465 Head Dia.
Guide	Exh	2005-15	30-8217	1.690 OAL. 0.2365 I.D. 0.3953 O.D. Plain Port End.
	Int	2005-15	30-8216	1.690 OAL. 0.2365 I.D. Tapered Port End
Keeper	Both	2005-15	34-5012	1 Round Groove
Valve Stem Seal	Both	2005-15	38-994-55	Viton. Metal Clad.
<b>LINE 60</b>	<b>4130cc (4.1L) DOHC 32V VH41DE</b>		<b>1997-01 V8</b>	<b>BORE: 93mm/3.66"</b>
Keeper	Both	1997-01	34-5010	1 Groove. OEM # 13210-40F00
Valve Stem Seal	Both	1997-01	38-961-55	Viton. Metal Clad.
<b>LINE 61</b>	<b>4494cc (4.5L) DOHC 32V VH45DE, Vin N</b>		<b>1990-96 V8</b>	<b>BORE - 93mm/3.66"</b>
Valve	Exh	2/93-96	10-10286S	1.299 Head Dia. Stellite
Valve Seat Insert	Exh	1990-96	21-1375-60	1.107T I.D. 1-3/8 O.D. 0.237 Depth
Keeper	Both	1990-96	34-5010	1 Groove. OEM # 13210-40F00
Valve Stem Seal	Exh	1990-96	38-961-55	Viton. Metal Clad.
	Int	1991-95	38-985-55	Viton. Metal Clad.
<b>LINE 62</b>	<b>4494cc (4.5L) DOHC 32V VK45DE</b>		<b>2002-10 V8</b>	<b>BORE - 93mm/3.66"</b>
Keeper	Both	2002-10	34-5012	1 Round Groove
Valve Stem Seal	Both	2002-10	38-994-55	Viton. Metal Clad.
<b>LINE 63</b>	<b>4997cc (5.0L) DI 32V Diesel (Cummins)</b>		<b>2016-16 V8</b>	<b>BORE - 94mm/3.74"</b>
No Parts Available		2016-16	00	Titan XD
<b>LINE 64</b>	<b>5026cc (5.0L) DOHC 32V VK50VE</b>		<b>2009-14 V8</b>	<b>BORE - 95.5mm/3.76"</b>
Keeper	Both	2009-14	34-5012	1 Round Groove
Valve Stem Seal	Both	2009-14	38-994-55	Viton. Metal Clad.
<b>LINE 65</b>	<b>5552cc (5.6L) 32V DOHC VK56</b>		<b>2004-16 V8</b>	<b>BORE - 98mm/3.85"</b>
Valve	Exh	2004-13	10-03030	1.236 Head Dia. 0.234 Stem. 3.702 OAL
	Int	2004-13	10-03029	1.465 Head Dia. 0.235 Stem. 3.798 OAL.
Guide	Exh	2004-15	30-8217	1.690 OAL. 0.2365 I.D. Plain Port End
	Int	2004-15	30-8216	1.690 OAL. 0.2365 I.D. Tapered Port End
Keeper	Both	2004-15	34-5012	1 Round Groove
Valve Stem Seal	Both	2004-15	38-994-55	Viton. Metal Clad.

# PEUGEOT

# PASSENGER CAR & TRUCK

ENGINE	YEAR	CYL.	LINE NO.
1360cc (1.4L) SOHC 8V TU3JP (Non-USA)	2000-11	L4	1
1587cc (1.6L) DOHC 16V TU5JP4 (Non-USA)	2001-11	L4	2

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1360cc (1.4L) SOHC 8V TU3JP (Non-USA)</b>			<b>2000-11 L4 BORE - 75mm/2.95"</b>
Valve	Exh	2000-11	<b>10-30117</b>	1.150 Head Dia.
	Int	2000-11	<b>10-30116</b>	1.445 Head Dia.
<b>LINE 2</b>	<b>1587cc (1.6L) DOHC 16V TU5JP4 (Non-USA)</b>			<b>2001-11 L4 BORE - 78.5mm/3.09"</b>
Valve	Exh	2001-11	<b>10-30127</b>	0.965 Head Dia.
	Int	2001-11	<b>10-30126</b>	1.232 Head Dia.

# RENAULT

# PASSENGER CAR & TRUCK

ENGINE	YEAR	CYL.	LINE NO.
1397cc (1.4L) C35 OHC Vin D,E 8V	1983-87	L4	1
1598cc (1.6L) DOHC 16V (non-USA) K4M	2001-10	L4	2
1721cc (1.7L) SOHC F3N 90HP	1985-87	L4	3
1965cc (2.0L)	1987-87	L4	4
1998cc (2.0L) DOHC 16V F4R (Non-USA)	2001-09	V6	5
2165cc (2.2L) SOHC Vin F	1984-90	L4	6
2972cc (3.0L) SOHC 12V Vin J,U	1988-92	V6	7

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1397cc (1.4L) C35 OHC Vin D,E 8V</b>		<b>1983-87</b>	<b>L4 BORE - 2.992"/76mm</b>
Valve Seat Insert	Exh	1983-87	21-1250-53	1.024 I.D. 1-1/4 O.D. 0.257 Depth
	Int	1983-87	21-1437-53	1.090T I.D. 1-7/16 O.D. 0.354 Depth
<b>LINE 2</b>	<b>1598cc (1.6L) DOHC 16V (non-USA) K4M</b>		<b>2001-10</b>	<b>L4 BORE - 79.5mm</b>
Valve	Exh	2001-10	10-3003	1.102 Head Dia. Clio, Kangoo
	Int	2001-10	10-3002	1.287 Head Dia. Clio, Kangoo
Guide	Both	2001-10	30-3217	1.602 OAL
Valve Stem Seal	Both	2001-10	38-6117-55	Viton. Top Hat
<b>LINE 3</b>	<b>1721cc (1.7L) SOHC F3N 90HP</b>		<b>1985-87</b>	<b>L4 BORE - 3.188"/81mm</b>
Valve	Exh	1985-87	10-10131S	1.281 Head Dia. +15 O/S Stem May Be Avail.
	Int	1985-87	10-10130	1.502 Head Dia.
<b>LINE 4</b>	<b>1965cc (2.0L)</b>		<b>1987-87</b>	<b>L4 BORE - 3.23"/82mm</b>
Valve	Exh	1987-87	10-10131S	1.281 Head Dia. +15 O/S Stem May Be Avail.
	Int	1987-87	10-10130	1.502 Head Dia.
<b>LINE 5</b>	<b>1998cc (2.0L) DOHC 16V F4R (Non-USA)</b>		<b>2001-09</b>	<b>V6 BORE - 82.7mm/3.26"</b>
Valve	Exh	2001-09	10-03036	1.114 Head Dia. Megane, Laguna, Scenic, Clio Sport/Megane, Coach
	Int	2001-09	10-03035	1.299 Head Dia. Megane, Laguna, Scenic, Clio Sport
<b>LINE 6</b>	<b>2165cc (2.2L) SOHC Vin F</b>		<b>1984-90</b>	<b>L4 BORE - 3.465"/88mm</b>
Keeper	Both	1984-90	34-614	Heat Treated. 1 Groove.
Expansion Plug Kit		1984-90	97-88	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 7</b>	<b>2972cc (3.0L) SOHC 12V Vin J,U</b>		<b>1988-92</b>	<b>V6 BORE - 3.60"/93mm</b>
Valve	Exh	1988-92	10-10345S	1.516 Head Dia. Round Groove
	Int	1988-92	10-10344	1.782 Head Dia. Round Groove
Keeper	Both	1988-92	34-716	1 Round Groove. Heat Treated



ENGINE	YEAR	CYL.	LINE NO.
1985cc (2.0L) SOHC Vin B,3 8V	1973-90	L4	1
1985cc (2.0L) DOHC 16V Turbo Vin L	1986-93	L4	2
1988cc (2.0L) DOHC 16V Vin Y B207	2003-11	L4	3
1994cc (2.0L) DOHC 16V Turbo (Subaru)	2005-05	H4	4
2458cc (2.5L) SOHC 16V EJ251/2/3 Vin 6 (Subaru)	2005-06	H4	5
2498cc (2.5L) 24V Vin V	1994-97	V6	6
2792cc (2.8L) DOHC 24V Vin J,U (GM)	2006-11	V6	7
2961cc (3.0L) DOHC 24V Vin W, Z Turbo	1995-03	V6	8
2997cc (3.0L) DOHC 24V (GM) LF1	2011-11	V6	9
256 C.I. (4.2L) DOHC 24V Vin S (GM Vortec)	2005-09	L6	10
325 C.I. (5.3L) FI 16V Vin M (Vortec)	2005-09	V8	11
364 C.I. (6.0L) OHV 16V Vin H (GM Vortec)	2008-09	V8	12

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1985cc (2.0L) SOHC Vin B,3 8V</b>		<b>1973-90</b>	<b>L4</b>	<b>BORE - 90mm/3.50"</b>
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Valve Seat Insert	Exh	1973-90	21-1500-70	1.203 I.D. 1-1/2 O.D. 0.283 Depth	
	Int	1973-90	21-1750-65	1.468 I.D. 1-3/4 O.D. 0.276 Depth	
Valve Stem Seal	Both	1973-90	38-938-45	Viton. Ring And Band. Use w/ 0.552 O.D. Guide	
	Both	1973-90	38-964-55	Viton. Metal Clad.	

<b>LINE 2</b>	<b>1985cc (2.0L) DOHC 16V Turbo Vin L</b>		<b>1986-93</b>	<b>L4</b>	<b>BORE - 90mm/3.50"</b>
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Valve Seat Insert	Exh	1986-93	21-1312-68	0.975 I.D. 1-5/16 O.D. 0.280 Depth	
	Int	1986-93	21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth	

<b>LINE 3</b>	<b>1988cc (2.0L) DOHC 16V Vin Y B207</b>		<b>2003-11</b>	<b>L4</b>	<b>BORE - 86mm/3.39"</b>
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Valve	Exh	2003-11	10-2010S	1.185 Head Dia.	
	Int	2003-11	10-13293	1.382 Head Dia. Nitrided. Can Use 10-1997 Chrome Stem	
Guide	Both	2003-11	30-3029	1.420 OAL.	
Spring	Both	2003-11	32-04060	1.678 Free Length	
Keeper	Both	2003-11	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2003-11	36-7082	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2003-11	38-3500-45	Viton. Top Hat	

<b>LINE 4</b>	<b>1994cc (2.0L) DOHC 16V Turbo (Subaru)</b>		<b>2005-05</b>	<b>H4</b>	<b>BORE - 92mm/3.62"</b>
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Valve	Exh	2005-05	10-13203S	1.260 Head Dia. 4.120 Length.	
	Int	2005-05	10-13201	1.417 Head Dia. 4.110 Length.	
Guide	Exh	2005-05	30-3119	1.872 OAL. 0.236 I.D. 0.436 O.D.	
	Int	2005-05	30-3118	1.556 OAL. 0.236 I.D. 0.436 O.D.	
Valve Stem Seal	Both	2005-05	38-475-45	Viton. Metal Clad.	

<b>LINE 5</b>	<b>2458cc (2.5L) SOHC 16V EJ251/2/3 Vin 6 (Subaru)</b>		<b>2005-06</b>	<b>H4</b>	<b>BORE - 99.5mm/3.92"</b>
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Valve	Exh	2005-06	10-10807	1.239 Head Dia	
	Exh	2006-06	10-13203S	1.260 Head Dia. 4.120 Length. DOHC Turbo	
	Int	2005-06	10-10806	1.417 Head Dia	
	Int	2006-06	10-13201	1.417 Head Dia. 4.110 Length. DOHC Turbo	
Guide	Both	2005-06	30-8203	2.065 OAL. 0.2367 I.D. 0.4365 O.D.	
	Exh	2006-06	30-3119	1.872 OAL. 0.236 I.D. 0.436 O.D.	
	Int	2006-06	30-3118	1.556 OAL. 0.236 I.D. 0.436 O.D.	
Valve Stem Seal	Both	2005-06	38-475-45	Viton. Metal Clad.	

# SAAB

# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>2498cc (2.5L) 24V Vin V</b>		<b>1994-97 V6</b>	<b>BORE - 81.9mm/3.21"</b>
Valve	Exh	1993-97	<b>10-2040S</b>	1.142 Head Dia. Bi-Metallic, Stellite
	Int	1994-97	<b>10-10784</b>	1.260 Head Dia.
Guide	Exh	1994-97	<b>30-3011</b>	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	1994-97	<b>30-3010</b>	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	1994-97	<b>32-2488</b>	1.673 Free Length
Lifter	Both	1993-97	<b>36-7021</b>	Hydraulic
Valve Stem Seal	Both	1994-97	<b>38-1329-45</b>	Viton. Metal Clad.
<b>LINE 7</b>	<b>2792cc (2.8L) DOHC 24V Vin J,U (GM)</b>		<b>2006-11 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2006-11	<b>10-13230</b>	1.142 Head Dia.
	Int	2006-11	<b>10-13211</b>	1.384 Head Dia. 0.2348 Stem
Guide	Both	2006-11	<b>30-3112</b>	1.655 OAL. 0.2355 I.D. 0.4358 O.D.
Spring	Both	2006-11	<b>32-5001</b>	1.729 Free Length. Conical
Keeper	Both	2006-11	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Valve Stem Seal	Both	2006-11	<b>38-6036-55</b>	Viton. Top Hat.
<b>LINE 8</b>	<b>2961cc (3.0L) DOHC 24V Vin W, Z Turbo</b>		<b>1995-03 V6</b>	<b>BORE - 86mm/3.39"</b>
Valve	Exh	1995-03	<b>10-2040S</b>	1.142 Head Dia. Bi-Metallic, Stellite
	Int	1995-03	<b>10-10784</b>	1.260 Head Dia
Guide	Exh	1995-03	<b>30-3011</b>	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	1995-03	<b>30-3010</b>	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	1995-03	<b>32-2488</b>	1.673 Free Length
Keeper	Both	1995-03	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Lifter	Both	1995-03	<b>36-7021</b>	Hydraulic
Valve Stem Seal	Both	1995-03	<b>38-1329-45</b>	Viton. Metal Clad.
<b>LINE 9</b>	<b>2997cc (3.0L) DOHC 24V (GM) LF1</b>		<b>2011-11 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2011-11	<b>10-13212</b>	1.205 Head Dia. 0.2344 Stem
	Int	2011-11	<b>10-13211</b>	1.384 Head Dia. 0.2348 Stem
Guide	Both	2011-11	<b>30-3112</b>	1.655 OAL. 0.2355 I.D. 0.4358 O.D.
Keeper	Both	2011-11	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2011-11	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2011-11	<b>38-6036-55</b>	Viton. Top Hat.
Retainer	Both	2011-11	<b>55-6735</b>	Chrome Moly. 0.735 O.D. 6mm Stem
<b>LINE 10</b>	<b>256 C.I. (4.2L) DOHC 24V Vin S (GM Vortec)</b>		<b>2005-09 L6</b>	<b>BORE - 3.66"/93mm</b>
Valve	Exh	2006-09	<b>10-13046</b>	1.323 Head Dia.
	Exh	2005-05	<b>10-1999</b>	1.201 Head Dia.
	Int	2006-09	<b>10-13179</b>	1.525 Head Dia.
	Int	2005-05	<b>10-1998</b>	1.457 Head Dia.
Guide	Both	2005-09	<b>30-8556</b>	1.735 OAL 0.436 O.D. 0.236 I.D.
Spring	Both	2005-09	<b>32-04051</b>	1.770 Free Length
Keeper	Both	2005-09	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Lifter	Both	2005-09	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal		2006-09	<b>38-6995-45</b>	Viton. Top Hat.
	Both	2005-05	<b>38-354-45</b>	Viton. Top Hat

# SAAB

# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>325 C.I. (5.3L) FI 16V Vin M (Vortec)</b>		<b>2005-09 V8</b>	<b>BORE - 96mm/3.78"</b>
Valve	Exh	2005-09	<b>10-1935</b>	1.550 Head Dia. Includes Flex-Fuel
	Int	2008-09	<b>10-13244</b>	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. Nitrided
	Int	2005-07	<b>10-1934</b>	1.890 Head Dia. Includes Flex-Fuel
Valve Seat Insert	Exh	2005-09	<b>21-1625-64</b>	1.335T I.D. 1-5/8 O.D. 0.4200 Depth
	Int	2005-09	<b>21-2062-50</b>	1.750 I.D. 2-1/16 O.D. 0.420 Depth
Guide	Both	2005-09	<b>30-3053</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D.
	Both	2005-09	<b>30-3053H</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened
Spring	Both	2006-09	<b>32-04046</b>	2.126 Free Length. Conical
Keeper	Both	2005-09	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
Lifter	Both	2005-09	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up To Install
	Both	2005-09	<b>36-2148G</b>	Lifter Guide, Dogbone Type
	Both	2006-09	<b>36-2303</b>	Hydraulic Roller. 3.785 OAL AFM "De-Ac".
	Both	2006-09	<b>36-2303FG</b>	Front Guide for AFM. Guide Only. 12571596
	Both	2006-09	<b>36-2303FLA</b>	Front Lifter Assy. For AFM. 4 Lifters 1 Guide. 12645724
	Both	2006-09	<b>36-2303RG</b>	Rear Guide for AFM. Guide Only. 12571608
Valve Stem Seal	Exh	2005-09	<b>38-901-45</b>	Viton. Top Hat
	Int	2005-09	<b>38-900-45</b>	Viton. Top Hat
		2006-09	<b>74-6614</b>	7.397 Length
<b>LINE 12</b>	<b>364 C.I. (6.0L) OHV 16V Vin H (GM Vortec)</b>		<b>2008-09 V8</b>	<b>BORE - 4.000"/101mm</b>
Valve	Exh	2008-09	<b>10-1935</b>	1.550 Head Dia. 0.314 Stem 1 Groove. LS1
	Int	2008-09	<b>10-13244</b>	2.000 Head Dia. 0.3135 Stem. 4.870 OAL. Nitrided
Valve Seat Insert	Exh	2008-09	<b>21-1625-54</b>	1.329 I.D. 1-5/8 O.D. 0.280 Depth.
	Int	2008-09	<b>21-2062-51</b>	1.750 I.D. 2-1/16 O.D. 0.390 Depth
Guide	Both	2008-09	<b>30-3053</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D.
	Both	2008-09	<b>30-3053H</b>	2.115 OAL. 0.3154 I.D. 0.500 O.D. Hardened
Spring	Both	2008-09	<b>32-04046</b>	2.126 Free Length. Conical
Keeper	Both	2008-09	<b>34-5005</b>	0.314 Stem. Round Bead in Middle.
Lifter	Both	2008-09	<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up to Install
	Both	2008-09	<b>36-2148G</b>	Lifter Guide, Dogbone Type
Valve Stem Seal	Exh	2008-09	<b>38-901-45</b>	Viton. Top Hat
	Int	2008-09	<b>38-900-45</b>	Viton. Top Hat
Push Rod	Both	2008-09	<b>74-6614</b>	7.397 Length

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ENGINE	YEAR	CYL.	LINE NO.
1189cc (1.2L) 9V Vin 7,8 EF12	1987-95	L3	1
1595cc (1.6L) OHV 8V Vin 2,3 EA71	1976-89	H4	2
1781cc (1.8L) OHV 8V Vin 4,5 EA81/T (Turbo)	1980-89	H4	3
1781cc (1.8L) SOHC 8V Vin 4,5,7 EA82/S/T (Turbo)	1985-94	H4	4
1781cc (1.8L) SOHC Vin 1,2 EJ18E	1993-97	H4	5
1994cc (2.0L) DOHC 16V EJ20 Turbo	2002-05	H4	6
1995cc (2.0L) DOHC 16V FA20D, FB20 Vin A	2012-16	H4	7
2212cc (2.2L) SOHC 16V Vin 3,4,6 EJ22/T (Turbo)	1990-01	H4	8
2457cc (2.5L) SOHC, DOHC 16V EJ25, Turbo	1996-16	H4	9
2498cc (2.5L) DOHC 16V FB25	2011-16	H4	10
2672cc (2.7L) SOHC 12V Vin 8,9 ER27	1988-91	H6	11
2999cc (3.0L) DOHC 24V EZ30/D	2001-09	H6	12
3317cc (3.3L) DOHC 24V Vin 3,8 EG33D	1992-97	H6	13
3630cc (3.6L) DOHC 24V EJ36	2008-16	H6	14

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1189cc (1.2L) 9V Vin 7,8 EF12</b>		<b>1987-95</b>	<b>L3</b>	<b>BORE - 78mm/3.00"</b>
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Valve Seat Insert	Exh	1987-95	21-1437-65	1.105 I.D. 1-7/16 O.D. 0.322 Depth NOTE: These Heads Have Various Depth Factory Installed Seats. The Above Seats May Have To Be Topped In Order To Accommodate Certain Cylinder Heads	
	Int	1987-95	21-1250-59	0.982 I.D. 1-1/4 O.D. 0.329 Depth.	
Guide	Exh	1987-95	30-8146	2.325 OAL	
	Int	1987-95	30-8145	2.166 OAL	
Valve Stem Seal	Both	1987-95	38-125-65	Silicone. 2-Ring.	
	Both	1987-95	38-1321-55	Viton. Metal Clad.	

<b>LINE 2</b>	<b>1595cc (1.6L) OHV 8V Vin 2,3 EA71</b>		<b>1976-89</b>	<b>H4</b>	<b>BORE - 92mm/3.60"</b>
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Valve Seat Insert	Exh	1976-89	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.	
	Int	1976-89	21-1812-52	1.440T I.D. 1-13/16 O.D. 0.315 Depth.	
Guide	Both	1976-89	30-8143	2.260 OAL	

<b>LINE 3</b>	<b>1781cc (1.8L) OHV 8V Vin 4,5 EA81/T (Turbo)</b>		<b>1980-89</b>	<b>H4</b>	<b>BORE - 92mm/3.60"</b>
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Valve Seat Insert	Exh	1980-89	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.	
	Int	1980-89	21-1812-52	1.440T I.D. 1-13/16 O.D. 0.315 Depth.	
Guide	Both	1980-89	30-8143	2.260 OAL	

<b>LINE 4</b>	<b>1781cc (1.8L) SOHC 8V Vin 4,5,7 EA82/S/T (Turbo)</b>		<b>1985-94</b>	<b>H4</b>	<b>BORE - 92mm/3.60"</b>
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Valve Seat Insert	Exh	1985-94	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.	
	Int	1985-94	21-1812-52	1.440T I.D. 1-13/16 O.D. 0.315 Depth.	
Guide	Exh	1985-94	30-8146	2.325 OAL	
	Int	1985-94	30-8145	2.166 OAL	
Valve Stem Seal	Both	1985-94	38-125-65	Silicone. 2-Ring.	
	Both	1985-94	38-976-45	Viton. Metal Clad.	

<b>LINE 5</b>	<b>1781cc (1.8L) SOHC Vin 1,2 EJ18E</b>		<b>1993-97</b>	<b>H4</b>	<b>BORE - 92mm/3.60"</b>
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Guide	Both	1993-97	30-8203	2.065 OAL. 0.2367 I.D. 0.4365 O.D.	
Lifter	Both	1993-97	36-2254	Hydraulic	
Valve Stem Seal	Exh	1993-97	38-1321-55	Viton. Metal Clad.	

<b>LINE 6</b>	<b>1994cc (2.0L) DOHC 16V EJ20 Turbo</b>		<b>2002-05</b>	<b>H4</b>	<b>BORE - 92mm/3.62"</b>
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Valve	Exh	2002-05	10-13203S	1.260 Head Dia. 4.120 Length.	
	Int	2002-05	10-13201	1.417 Head Dia. 4.110 Length.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>1994cc (2.0L) DOHC 16V EJ20 Turbo</b>			<b>2002-05 H4 BORE - 92mm/3.62"</b>
Guide	Exh	2002-05	30-3119	1.872 OAL. 0.236 I.D. 0.436 O.D.
	Int	2002-05	30-3118	1.556 OAL. 0.236 I.D. 0.436 O.D.
Valve Stem Seal	Both	2002-05	38-475-45	Viton. Metal Clad.
<b>LINE 7</b>	<b>1995cc (2.0L) DOHC 16V FA20D, FB20 Vin A</b>			<b>2012-16 H4 BORE - 84.1mm/3.31"</b>
Keeper	Both	2012-16	34-5034	1 Rd Middle Bead. 0.215 Stem
Valve Stem Seal	Both	2012-16	38-6108-55	Viton. Metal Clad
<b>LINE 8</b>	<b>2212cc (2.2L) SOHC 16V Vin 3,4,6 EJ22/T (Turbo)</b>			<b>1990-01 H4 BORE - 97mm/3.80"</b>
Valve	Exh	1990-99	10-10300	1.102 Head Dia. 0.234 Stem
	Exh	1999-01	10-10807	1.239 Head Dia
	Int	1990-99	10-10299	1.280 Head Dia. 0.234 Stem
	Int	1999-01	10-10806	1.417 Head Dia
Valve Seat Insert	Exh	1990-98	21-1250-63	0.930 I.D. 1-1/4 O.D. 0.325 Depth
	Int	1990-98	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
Guide	Both	1990-01	30-8203	2.065 OAL. 0.2367 I.D. 0.4365 O.D.
Keeper	Both	1990-01	34-5035	1 Round Bead
Lifter	Both	1990-98	36-2254	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1990-01	38-475-45	Viton. Metal Clad
<b>LINE 9</b>	<b>2457cc (2.5L) SOHC, DOHC 16V EJ25, Turbo</b>			<b>1996-16 H4 BORE - 99.5mm/3.92"</b>
Valve	Exh	1997-98	10-13140S	1.260 Head Dia. 4.181 OAL. DOHC
	Exh	2004-14	10-13203S	1.260 Head Dia. 4.120 Length. DOHC Turbo
	Ext	1999-12	10-10807	1.239 Head Dia. 4.79 Length. SOHC
	Int	1999-12	10-10806	1.417 Head Dia. 4.76 Length. SOHC
	Int	1997-98	10-13139S	1.417 Head Dia. 4.169 OAL. DOHC
	Int	2004-14	10-13201	1.417 Head Dia. 4.110 Length. DOHC Turbo
Guide	Both	1997-12	30-8203	2.065 OAL. 0.2367 I.D. 0.4365 O.D. SOHC
	Exh	2004-14	30-3119	1.872 OAL. 0.236 I.D. 0.436 O.D. DOHC
	Exh	1996-98	30-8565	1.595 OAL
	Int	2004-14	30-3118	1.556 OAL. 0.236 I.D. 0.436 O.D. DOHC
Keeper	Both	1996-14	34-5035	1 Round Bead
Valve Stem Seal	Both	1996-14	38-475-45	Viton. Metal Clad.
<b>LINE 10</b>	<b>2498cc (2.5L) DOHC 16V FB25</b>			<b>2011-16 H4 BORE - 94mm/3.70"</b>
Keeper	Both	2011-16	34-5034	1 Rd Middle Bead. 0.215 Stem
Valve Stem Seal	Both	2011-16	38-6108-55	Viton. Metal Clad
<b>LINE 11</b>	<b>2672cc (2.7L) SOHC 12V Vin 8,9 ER27</b>			<b>1988-91 H6 BORE - 92mm/3.60"</b>
Valve Seat Insert	Exh	1988-91	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.
	Int	1988-91	21-1812-52	1.440T I.D. 1-13/16 O.D. 0.315 Depth.
Guide	Exh	1988-91	30-8146	2.325 OAL
	Int	1988-91	30-8145	2.166 OAL
Valve Stem Seal	Both	1988-91	38-125-65	Silicone. 2-Ring.
	Both	1988-91	38-1321-55	Viton. Metal Clad.
<b>LINE 12</b>	<b>2999cc (3.0L) DOHC 24V EZ30/D</b>			<b>2001-09 H6 BORE - 89.2mm/3.512"</b>
Valve	Exh	2001-09	10-3047	1.200 Head Dia. 4.059 OAL.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>2999cc (3.0L) DOHC 24V EZ30/D</b>			<b>2001-09 H6 BORE - 89.2mm/3.512"</b>
Valve	Int	2006-09	<b>10-13259</b>	1.378 Head Dia. 3.925 OAL
	Int	2001-05	<b>10-3048</b>	1.378 Head Dia. 4.059 OAL.
Guide	Exh	2001-09	<b>30-3219</b>	1.748 OAL. 0.398 O.D.
	Int	2001-09	<b>30-3218</b>	1.457 OAL. 0.397 O.D.
Keeper	Both	2001-09	<b>34-5034</b>	1 Rd Middle Bead. 0.215 Stem
Lifter	Both	2001-04	<b>36-7091</b>	Hydraulic.
Valve Stem Seal	Both	2001-09	<b>38-6108-55</b>	Viton. Metal Clad
<b>LINE 13</b>	<b>3317cc (3.3L) DOHC 24V Vin 3,8 EG33D</b>			<b>1992-97 H6 BORE - 97mm/3.80"</b>
Valve	Exh	1992-97	<b>10-3050</b>	1.260 Head Dia.
	Int	1992-97	<b>10-3049</b>	1.417 Head Dia.
Guide	Exh	1992-97	<b>30-8565</b>	1.595 OAL
	Int	1992-97	<b>30-8564</b>	1.280 OAL
Valve Stem Seal	Both	1992-97	<b>38-475-45</b>	Viton. Metal Clad.
<b>LINE 14</b>	<b>3630cc (3.6L) DOHC 24V EJ36</b>			<b>2008-16 H6 BORE - 92mm/3.62"</b>
Valve	Exh	2008-15	<b>10-13262</b>	1.260 Head Dia.
	Int	2008-15	<b>10-13261</b>	1.417 Head Dia.
Keeper	Both	2008-15	<b>34-5034</b>	1 Rd Middle Bead. 0.215 Stem
Valve Stem Seal	Both	2008-15	<b>38-6108-55</b>	Viton. Metal Clad

ENGINE	YEAR	CYL.	LINE NO.
1298cc (1.3L) SOHC 8V G13	1986-97	L4	1
1298cc (1.3L) DOHC 16V G13K	1989-95	L4	2
1298cc (1.3L) SOHC 16V G13B	1998-01	L4	3
1590cc (1.6L) SOHC 8V G16KC	1989-95	L4	4
1590cc (1.6L) SOHC 16V G16KV/B, Vin 0,1,3	1992-02	L4	5
1840cc (1.8L) DOHC G18KV, J18A Vin 2,4	1996-02	L4	6
1995cc (2.0L) DOHC 16V J20A	1999-03	L4	7
1995cc (2.0L) DOHC 16V J20B Vin 5	2007-13	L4	8
1998cc (2.0L) DOHC 16V Ecotec Vin Z	2004-08	L4	9
2290cc (2.3L) DOHC 16V J23A	2004-07	L4	10
2393cc (2.4L) DOHC 16V J24B	2009-13	L4	11
2488cc (2.5) DOHC 16V (Nissan QR25DE)	2009-12	L4	12
2494cc (2.5L) DOHC 24V H25A	1999-05	V6	13
2737cc (2.7L) DOHC 24V H27A	2001-08	V6	14
3195cc (3.2L) DOHC 24V N32A Vin 1	2009-10	V6	15
3564cc (3.6L) DOHC 24V N36A	2007-09	V6	16
3954cc (4.0L) DOHC 24V VQ40DE (Nissan)	2009-12	V6	17

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1298cc (1.3L) SOHC 8V G13</b>		<b>1986-97</b>	<b>L4 BORE - 74mm/2.913"</b>
Valve	Exh	1986-97	10-10302	1.181 Head Dia.
	Int	1986-97	10-10103	1.417 Head Dia.
Valve Seat Insert	Exh	1986-97	21-1375-64	1.000 I.D. 1-3/8 O.D. 0.280 Depth.
	Int	1986-97	21-1562-77	1.170 I.D. 1-9/16 O.D. 0.267 Depth
Guide	Both	1986-97	30-8016	1.895 OAL. +2 O/S Avail.
Spring	Both	1986-88	32-1377	1.982 Free Length
	Both	1989-97	32-1457	1.958 Free Length
Keeper	Both	1986-97	34-5009	1 Round Groove
Lifter	Both	1995-97	36-2254	Hydraulic Lash Adjuster
Valve Stem Seal	Both	1986-97	38-700-45	Viton. Metal Clad.
<b>LINE 2</b>	<b>1298cc (1.3L) DOHC 16V G13K</b>		<b>1989-95</b>	<b>L4 BORE - 74mm/2.91"</b>
Valve	Exh	1989-95	10-10304	0.944 Head Dia.
Valve Seat Insert	Int	1989-95	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
Guide	Both	1989-95	30-8144	1.690 OAL
Spring	Both	1990-95	32-1457	1.958 Free Length
Lifter	Both	1989-95	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	1989-95	38-701-45	Viton. Metal Clad.
<b>LINE 3</b>	<b>1298cc (1.3L) SOHC 16V G13B</b>		<b>1998-01</b>	<b>L4 BORE - 74mm/2.91"</b>
Valve	Exh	1998-01	10-10517	0.9860 Head Dia. 0.215 Stem
	Int	1998-01	10-10516	1.149 Head Dia. 0.215 Stem
Guide	Both	1998-01	30-8324	1.260 OAL
Keeper	Both	1998-01	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	1998-01	38-701-45	Viton. Metal Clad.
<b>LINE 4</b>	<b>1590cc (1.6L) SOHC 8V G16KC</b>		<b>1989-95</b>	<b>L4 BORE - 75mm/2.953"</b>
Valve	Exh	1989-95	10-10173	1.278 Head Dia. 0.274 Stem
	Exh	1989-95	10-10173S	1.278 Head Dia. Stellite Faced
	Int	1989-95	10-10172	1.441 Head Dia. 0.274 Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>1590cc (1.6L) SOHC 8V G16KC</b>			<b>1989-95 L4 BORE - 75mm/2.953"</b>
Valve Seat Insert	Exh	1989-95	21-1375-56	1.102 I.D. 1-3/8 O.D. 0.260 Depth.
	Int	1989-95	21-1500-79	1.295 I.D. 1-1/2 O.D. 0.262 Depth.
Guide	Both	1989-95	30-8016	1.895 OAL. +2 O/S Avail.
Spring	Both	1989-95	32-1457	1.950 Free Length
Keeper	Both	1989-95	34-5009	1 Round Groove
Valve Stem Seal	Both	1989-95	38-700-45	Viton. Metal Clad.
<b>LINE 5</b>	<b>1590cc (1.6L) SOHC 16V G16KV/B, Vin 0,1,3</b>			<b>1992-02 L4 BORE - 75mm/2.953"</b>
Valve	Exh	1992-02	10-10517	0.986 Head Dia. 0.214 Stem
	Int	1992-02	10-10516	1.149 Head Dia. 0.215 Stem
Valve Seat Insert	Exh	1992-02	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	1992-02	21-1250-54	1.010T I.D. 1-1/4 O.D.; 0.257 Depth
Guide	Both	1992-02	30-8324	1.260 OAL
Spring	Both	1992-02	32-1457	1.958 Free Length
Keeper	Both	1992-02	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	1992-02	38-701-45	Viton. Metal Clad.
<b>LINE 6</b>	<b>1840cc (1.8L) DOHC G18KV, J18A Vin 2,4</b>			<b>1996-02 L4 BORE - 84mm/3.31"</b>
Valve	Exh	1996-02	10-10787S	1.102 Head Dia. 0.234 Stem. 3.382 OAL
	Int	1996-02	10-10786	1.299 Head Dia. 0.235 Stem. 3.396 OAL
Guide	Guide	1996-02	30-8566	1.380 OAL
Keeper	Both	1996-02	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	1996-02	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	1996-02	38-998-45	Viton. Metal Clad.
<b>LINE 7</b>	<b>1995cc (2.0L) DOHC 16V J20A</b>			<b>1999-03 L4 BORE - 84mm/3.31"</b>
Valve	Exh	1999-03	10-10787S	1.102 Head Dia. 0.234 Stem. 3.382 OAL
	Int	1999-03	10-10786	1.299 Head Dia. 0.235 Stem. 3.396 OAL
Guide	Both	1999-03	30-8566	1.380 OAL
Keeper	Both	1999-03	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	1999-03	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	1999-03	38-998-45	Viton. Metal Clad.
<b>LINE 8</b>	<b>1995cc (2.0L) DOHC 16V J20B Vin 5</b>			<b>2007-13 L4 BORE - 84mm/3.31"</b>
Valve	Exh	2007-09	10-13198	1.102 Head Dia. 0.234 Stem. 3.673 OAL
	Int	2007-09	10-13197	1.299 Head Dia. 0.235 Stem. 3.685 OAL
Keeper	Both	2007-13	34-5008	1 Round Groove. 0.215 Stem Dia.
	Both	2007-09	34-5022	1 Round Bead. 0.235 Stem Dia.
Valve Stem Seal	Both	2007-13	38-701-45	Viton. Metal Clad.
	Both	2007-09	38-998-45	Viton. Metal Clad.
<b>LINE 9</b>	<b>1998cc (2.0L) DOHC 16V Ecotec Vin Z</b>			<b>2004-08 L4 BORE - 86mm/3.39</b>
Valve	Exh	2004-08	10-2040S	1.142 Head Dia. Bi-Metallic, Stellite.
	Int	2004-08	10-10784	1.260 Head Dia.
Guide	Exh	2004-08	30-3011	1.378 OAL. Manganese Bronze 31-3011 Also Avail.
	Int	2004-08	30-3010	1.773 OAL. Manganese Bronze 31-3010 Also Avail.
Spring	Both	2004-08	32-2488	1.673 Free Length
Keeper	Both	2004-08	34-5021	3 Round Beads. 0.234 Stem



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>1998cc (2.0L) DOHC 16V Ecotec Vin Z</b>			<b>2004-08 L4 BORE - 86mm/3.39</b>
Lifter	Both	2004-08	36-7021	Hydraulic
Valve Stem Seal	Both	2004-08	38-1329-45	Viton. Metal Clad.
<b>LINE 10</b>	<b>2290cc (2.3L) DOHC 16V J23A</b>			<b>2004-07 L4 BORE - 89.9mm/3.53"</b>
Valve	Exh	2004-07	10-13277	1.181 Head Dia. 0.234 Stem
	Int	2004-07	10-13276	1.375 Head Dia. 0.235 Stem
Keeper	Both	2004-07	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	2004-07	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	2004-07	38-998-45	Viton. Metal Clad
<b>LINE 11</b>	<b>2393cc (2.4L) DOHC 16V J24B</b>			<b>2009-13 L4 BORE - 92mm/3.62"</b>
Valve	Exh	2009-13	10-13216	1.200 Head Dia. 0.214 Stem
	Int	2009-13	10-13215	1.398 Head Dia. 0.215 Stem
Guide	Both	2009-13	30-3128	1.580 OAL. 0.2165 I.D.
Keeper	Both	2009-13	34-5008	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2009-13	38-701-45	Viton. Metal Clad.
<b>LINE 12</b>	<b>2488cc (2.5) DOHC 16V (Nissan QR25DE)</b>			<b>2009-12 L4 BORE - 89mm/3.5"</b>
Valve	Exh	2009-12	10-3181	1.209 Head Dia. 0.236 Stem. Smaller Keeper Dia. Equator
	Int	2009-12	10-3180	1.402 Head Dia. 0.236 Stem. Smaller Keeper Dia. Equator
Guide	Exh	2009-12	30-8217	1.690 OAL. Plain Port End
	Int	2009-12	30-8216	1.690 OAL. Tapered Port End
Spring	Exh	2009-12	32-5007	1.754 Free Length
	Int	2009-12	32-5006	1.694 Free Length
Keeper	Both	2009-12	34-5012	1 Round Groove. 0.215 Stem Dia.
Valve Stem Seal	Both	2009-12	38-994-55	Viton. Metal Clad.
<b>LINE 13</b>	<b>2494cc (2.5L) DOHC 24V H25A</b>			<b>1999-05 V6 BORE - 84mm/3.31"</b>
Valve	Exh	1999-05	10-10787S	1.102 Head Dia. 0.234 Stem. 3.382 OAL
	Int	1999-05	10-10786	1.299 Head Dia. 0.235 Stem. 3.396 OAL
Guide	Both	1999-05	30-8566	1.380 OAL
Keeper	Both	1999-05	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	1999-05	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	1999-05	38-998-45	Viton. Metal Clad.
<b>LINE 14</b>	<b>2737cc (2.7L) DOHC 24V H27A</b>			<b>2001-08 V6 BORE - 88mm/3.46"</b>
Valve	Exh	2001-06	10-10787S	1.102 Head Dia. 0.234 Stem. 3.382 OAL
	Exh	2007-08	10-13198	1.102 Head Dia. 0.234 Stem. 3.673 OAL
	Int	2001-06	10-10786	1.299 Head Dia. 0.235 Stem. 3.396 OAL
	Int	2007-08	10-13197	1.299 Head Dia. 0.235 Stem. 3.685 OAL
Guide	Both	2001-08	30-8566	1.380 OAL
Keeper	Both	2001-08	34-5022	1 Round Bead. 0.235 Stem Dia.
Lifter	Both	2001-08	36-2272	Hydraulic Bucket
Valve Stem Seal	Both	2001-08	38-998-45	Viton. Metal Clad.
<b>LINE 15</b>	<b>3195cc (3.2L) DOHC 24V N32A Vin 1</b>			<b>2009-10 V6 BORE - 89mm/3.51"</b>
Valve	Exh	2009-10	10-13335	1.205 Head Dia. 0.2344 Stem. Nitrided
	Int	2009-10	10-13204	1.386 Head Dia. 0.235 Stem
Guide	Both	2009-10	30-3112	1.655 OAL. 0.2355 I.D. 0.4358 O.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>3195cc (3.2L) DOHC 24V N32A Vin 1</b>		<b>2009-10 V6</b>	<b>BORE - 89mm/3.51"</b>
Spring	Both	2009-10	<b>32-5001</b>	1.729 Free Length. Conical
Keeper	Both	2009-10	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2009-10	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2009-10	<b>38-6036-55</b>	Viton. Top Hat.
<b>LINE 16</b>	<b>3564cc (3.6L) DOHC 24V N36A</b>		<b>2007-09 V6</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2007-09	<b>10-13335</b>	1.205 Head Dia. 0.2344 Stem. Nitrided
	Int	2007-09	<b>10-13334</b>	1.457 Head Dia. 0.2348 Stem.
Guide	Both	2007-09	<b>30-3112</b>	1.655 OAL. 0.2355 I.D. 0.4358 O.D.
Spring	Both	2007-09	<b>32-5001</b>	1.729 Free Length. Conical
Keeper	Both	2007-09	<b>34-5032</b>	1 Round Mid Bead. 0.235 Stem Dia.
Lifter	Both	2007-09	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2007-09	<b>38-6036-55</b>	Viton. Top Hat.
<b>LINE 17</b>	<b>3954cc (4.0L) DOHC 24V VQ40DE (Nissan)</b>		<b>2009-12 V6</b>	<b>BORE - 95.5mm/3.76"</b>
Valve	Exh	2009-12	<b>10-03030</b>	1.236 Head Dia. 0.234 Stem
	Int	2009-12	<b>10-03029</b>	1.465 Head Dia. 0.234 Stem
Guide	Exh	2009-12	<b>30-8217</b>	1.690 OAL. 0.2365 I.D. Plain Port End
	Int	2009-12	<b>30-8216</b>	1.690 OAL. 0.2365 I.D. Tapered Port End
Keeper	Both	2009-12	<b>34-5012</b>	1 Round Groove
Valve Stem Seal	Both	2009-12	<b>38-994-55</b>	Viton. Metal Clad.

<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
1166cc (1.2L) OHV 3KC Vin K	1969-79	L4	1
1290cc (1.3L) 4KC, 4KE 8V Vin K	1981-84	L4	2
1329cc (1.3L) DOHC 16V 1NRFE	2012-15	L4	3
1452cc (1.5L) SOHC 1AC, 3A, 3AC 8V Vin A	1980-88	L4	4
1456cc (1.5L) SOHC 12V 3E, 3EE Vin E	1987-94	L4	5
1497cc (1.5L) DOHC7 16V 1NZF(X)E (Hybrid)	2000-16	L4	6
1497cc (1.5L) DOHC 16V 5EFE Vin C, E	1992-99	L4	7
1587cc (1.6L) SOHC 4AC, 4ALC 8V	1983-88	L4	8
1587cc (1.6L) DOHC 16V 4AGE, 4AGEC, 4AGELC, 4AGZE	1985-91	L4	9
1587cc (1.6L) DOHC 16V 4AF, 4AFE Vin A	1988-97	L4	10
1588cc (1.6L) OHV 2TC Vin T	1971-79	L4	11
1762cc (1.8L) DOHC 16V 7AFE Vin A, B	1993-97	L4	12
1770cc (1.8L) 3TC Vin T 8V	1980-82	L4	13
1794cc (1.8L) 1ZZFE(D) 16V DOHC Vin R	1998-09	L4	14
1798cc (1.8L) DOHC 16V 2ZRFE/XE Vin U	2008-16	L4	15
1795cc (1.8L) DOHC 16V 2ZZGE	2000-06	L4	16
1838cc (1.8L) SOHC Diesel 1CLC, 1CTLC Turbo Vin C 8V	1983-85	L4	17
1858cc (1.9L) SOHC 8R, 8RC	1965-72	L4	18
1896cc (1.9L) 3R, 3RB, 3RC	1964-70	L4	19
1968cc (2.0L) SOHC 18RC	1972-74	L4	20
1995cc (2.0L) SOHC 2SELC Vin S 8V	1983-86	L4	21
1998cc (2.0L) 3YEC Vin Y 8V	1984-85	L4	22
1998cc (2.0L) DOHC 16V 3SGELC, 3SGTE Turbo Vin S	1986-95	L4	23
1998cc (2.0L) DOHC 16V 3SFE Vin S, P	1987-00	L4	24
1998cc (2.0L) DOHC 16V 1AZFE	2001-03	L4	25
1998cc (2.0L) DOHC 16V 8ARFTS	2015-16	L4	26
2164cc (2.2L) DOHC 16V 5SFE Vin G,S	1990-01	L4	27
2188cc (2.2L) SOHC Diesel Vin L 8V	1981-83	L4	28
2189cc (2.2L) SOHC 20R 8V Vin R	1975-80	L4	29
2237cc (2.2L) SOHC 4YEC	1986-90	L4	30
2253cc (2.3L) SOHC 2M	1968-72	L6	31
2362cc (2.4L) DOHC 16V 2AZFE\XE	2001-14	L4	32
2366cc (2.4L) SOHC 22R, 22RE, 22REC, 22RTEC	1981-96	L4	33
2438cc (2.4L) DOHC 16V 2TZFE, 2TZFZE	1990-97	L4	34
2438cc (2.4L) DOHC 16V 2RZFE Vin L, U	1995-04	L4	35
2446cc (2.4L) SOHC Diesel 2L, 2LT	1984-87	L4	36
2494cc (2.5L) DOHC 16V 2ARFE	2009-16	L4	37
2499cc (2.5L) DOHC 24V 4GRFSE	2006-15	V6	38
2508cc (2.5L) DOHC 24V 2VZFE	1988-91	V6	39
2563cc (2.6L) SOHC 4M, 4ME Vin M	1971-80	L6	40
2672cc (2.7L) DOHC 16V 1ARFE	2009-16	L4	41
2693cc (2.7L) DOHC FI 16V 2TRFE	2005-16	L4	42
2694cc (2.7L) DOHC 16V 3RZFE Vin M,U	1994-04	L4	43
2759cc (2.8L) SOHC 5ME	1981-82	L6	44
2759cc (2.8L) DOHC 5MGE 12V	1982-88	L6	45
2954cc (3.0L) DOHC 24V 7MGE, 7MGTE Vin M	1986-92	L6	46
2958cc (3.0L) SOHC 12V 3VZE Vin V	1988-95	V6	47
2959cc (3.0L) DOHC 24V 3VZFE Vin V	1992-93	V6	48
2995cc (3.0L) DOHC 24V 1MZFE Vin F,G	1994-06	V6	49
2994cc (3.0L) DOHC 24V 3GRFSE	2006-06	V6	50
2997cc (3.0L) DOHC 24V 2JZGE, 2JZGTE Turbo	1992-05	L6	51
3310cc (3.3L) DOHC 24V 3MZFE	2004-10	V6	52
3378cc (3.4L) DOHC 24V 5VZFE Vin N, V	1995-04	V6	53
3456cc (3.5L) DOHC 24V 2GRFE/SE/XE	2005-16	V6	54

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3878cc (3.9L) F, FJ 12V	1960-75	L6	55
3955cc (4.0L) 3F, 3FE 12V Vin F	1988-92	L6	56
3956cc (4.0L) DOHC 24V 1GRFE	2003-16	V6	57
3969cc (4.0L) DOHC 32V 1UZFE Vin H, U	1990-00	V8	58
4230cc (4.2L) 2F Vin F 12V	1975-87	L6	59
4293cc (4.3L) DOHC 32V 3UZFE	2001-10	V8	60
4477cc (4.5L) DOHC 24V 1FZFE Vin D, J	1993-97	L6	61
4608cc (4.6L) DOHC 32V 1URFSE	2007-16	V8	62
4663cc (4.7L) DOHC 32V 2UZFE Vin T	1998-09	V8	63
4969cc (5.0L) DOHC 32V 2UR-FSE/GSE	2008-16	V8	64
5663cc (5.7L) DOHC 32V VVT 3URFE/BE	2007-16	V8	65

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1166cc (1.2L) OHV 3KC Vin K</b>			<b>1969-79 L4 BORE - 75mm/2.953"</b>
Valve	Exh	11/74-79	<b>10-10308</b>	1.142 Head Dia. 0.3137 Stem.
	Int	11/74-79	<b>10-10307</b>	1.417 Head Dia. 0.3137 Stem.
Valve Seat Insert	Exh	1969-79	<b>21-1250-50</b>	0.965T I.D. 1-1/4 O.D. 1/4 Depth
	Int	1969-79	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Exh	1969-79	<b>30-7535</b>	1.813 OAL
	Int	1969-79	<b>30-7541</b>	1.980 OAL
Keeper	Both	1969-79	<b>34-811</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	11/74-79	<b>38-967-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1969-79	<b>97-43</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 2</b>	<b>1290cc (1.3L) 4KC, 4KE 8V Vin K</b>			<b>1981-84 L4 BORE - 75mm/2.953"</b>
Valve	Exh	1981-84	<b>10-10308</b>	1.142 Head Dia. 0.3137 Stem.
	Int	1981-84	<b>10-10307</b>	1.417 Head Dia. 0.3137 Stem.
Valve Seat Insert	Exh	1981-84	<b>21-1250-50</b>	0.965T I.D. 1-1/4 O.D. 1/4 Depth
	Int	1981-84	<b>21-1500-56</b>	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Exh	1981-84	<b>30-7535</b>	1.813 OAL
	Int	1981-84	<b>30-7541</b>	1.980 OAL
Keeper	Both	1981-84	<b>34-811</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1981-82	<b>38-967-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1981-84	<b>97-43</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>1329cc (1.3L) DOHC 16V 1NRFE</b>			<b>2012-15 L4 BORE - 72mm/2.84"</b>
Keeper	Both	2012-13	<b>34-5023</b>	1 Round Groove. 0.215 Stem
Valve Stem Seal	Exh	2012-13	<b>38-310-55</b>	Viton. Metal Clad
	Int	2012-13	<b>38-210-55</b>	Viton. Metal Clad
<b>LINE 4</b>	<b>1452cc (1.5L) SOHC 1AC, 3A, 3AC 8V Vin A</b>			<b>1980-88 L4 BORE - 77.5mm/3.00"</b>
Valve	Exh	1980-88	<b>10-10106</b>	1.220 Head Dia. 0.2745 Stem
	Int	1980-88	<b>10-10107</b>	1.417 Head Dia. 0.2746 Stem
Valve Seat Insert	Exh	1980-88	<b>21-1312-59</b>	1.044 I.D. 1-5/16 O.D. 0.273 Depth.
	Int	1980-88	<b>21-1500-71</b>	1.240 I.D. 1-1/2 O.D. 0.317 Depth.
Guide	Exh	1980-88	<b>30-8021</b>	1.930 OAL. +2 O/S Avail.
	Int	1980-88	<b>30-8020</b>	1.690 OAL. +2 O/S Avail.
Spring	Both	1980-88	<b>32-1202</b>	1.760 Free Length
Valve Stem Seal	Both	1980-88	<b>38-097-65</b>	Silicone. 2-Ring.
	Both	1980-88	<b>38-980-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1980-88	<b>97-116</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 5</b>	<b>1456cc (1.5L) SOHC 12V 3E, 3EE Vin E</b>			<b>1987-94 L4</b>	<b>BORE - 73mm/2.874"</b>
Valve	Exh	1987-94	10-10311	1.220 Head Dia.	
	Int	1987-94	10-10309	0.945 Head Dia. Inner (Rear)	
	Int	1987-94	10-10310	1.181 Head Dia. Outer (Front)	
Valve Seat Insert	Exh	1987-94	21-1312-57	1.060 I.D. 1-5/16 O.D. 0.280 Depth.	
	Int	1987-94	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth. Inner (Rear)	
	Int	1987-94	21-1250-53	1.024 I.D. 1-1/4 O.D. 0.257 Depth, Outer (Front)	
Guide	Both	1987-94	30-8195	1.600 OAL. +2 O/S Avail.	
Keeper	Both	1987-94	34-5011	1 Round Groove	
Valve Stem Seal	Both	1987-94	38-481-45	Viton. Metal Clad.	
Expansion Plug Kit		1987-94	97-160	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 6</b>	<b>1497cc (1.5L) DOHC7 16V 1NZF(X)E (Hybrid)</b>			<b>2000-16 L4</b>	<b>BORE - 75mm /2.95"</b>
Valve	Exh	2000-15	10-2240	1.004 Head Dia.	
	Int	2000-15	10-2241	1.205 Head Dia.	
Guide	Both	2000-15	30-3220	1.358 OAL. 0.382 O.D.	
Valve Stem Seal	Both	2000-15	38-6108-55	Viton. Metal Clad	
<b>LINE 7</b>	<b>1497cc (1.5L) DOHC 16V 5EFE Vin C, E</b>			<b>1992-99 L4</b>	<b>BORE - 74mm/2.913"</b>
Valve	Exh	1992-99	10-10138	0.965 Head Dia.	
	Int	1992-99	10-10137	1.122 Head Dia.	
Valve Seat Insert	Exh	1992-98	21-1062-50	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Int	1992-98	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth.	
Guide	Exh	1992-99	30-8147	1.520 OAL. 0.436 O.D.	
	Int	1992-99	30-8195	1.600 OAL. +2 O/S Avail.	
Keeper	Both	1992-99	34-5011	1 Round Groove	
Lifter	Both	1992-99	36-6003	Mechanical	
Valve Stem Seal	Both	1992-99	38-481-45	Viton. Metal Clad.	
Expansion Plug Kit		1992-98	97-160	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 8</b>	<b>1587cc (1.6L) SOHC 4AC, 4ALC 8V</b>			<b>1983-88 L4</b>	<b>BORE - 81mm/3.189"</b>
Valve	Exh	1983-88	10-10106	1.220 Head Dia. 0.2745 Stem	
	Int	1983-88	10-10107	1.417 Head Dia. 0.2746 Stem	
Valve Seat Insert	Exh	1983-88	21-1312-59	1.044 I.D. 1-5/16 O.D. 0.273 Depth.	
	Int	1983-88	21-1500-71	1.240 I.D. 1-1/2 O.D. 0.317 Depth.	
Guide	Exh	1983-88	30-8021	1.930 OAL. +2 O/S Avail.	
	Int	1983-88	30-8020	1.690 OAL. +2 O/S Avail.	
Spring	Both	1983-88	32-1202	1.760 Free Length	
Lifter	Both	1985-88	36-6003	Mechanical	
Valve Stem Seal	Both	1983-88	38-980-45	Viton. Metal Clad.	
Expansion Plug Kit		1983-88	97-116	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 9</b>	<b>1587cc (1.6L) DOHC 16V 4AGE, 4AGEC, 4AGELC, 4AGZE</b>			<b>1985-91 L4</b>	<b>BORE - 81mm/3.189"</b>
Valve	Exh	1985-91	10-10177	1.004 Head Dia. 0.235 Stem	
	Int	1985-91	10-10176	1.201 Head Dia. 0.235 Stem	
Valve Seat Insert	Exh	1985-91	21-1125-51	0.854 I.D. 1-1/8 O.D. 0.237 Depth	
	Int	1985-91	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth	
Guide	Both	1985-91	30-8038	1.595 OAL. 0.435 O.D. Incl. Lock Ring	
Keeper	Both	1985-91	34-5011	1 Round Groove	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>1587cc (1.6L) DOHC 16V 4AGE, 4AGEC, 4AGELC, 4AGZE</b>			<b>1985-91 L4 BORE - 81mm/3.189"</b>
Lifter	Both	1985-91	<b>36-6003</b>	Mechanical
Valve Stem Seal	Both	1985-91	<b>38-475-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1985-91	<b>97-116</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 10</b>	<b>1587cc (1.6L) DOHC 16V 4AF, 4AFE Vin A</b>			<b>1988-97 L4 BORE - 81mm/3.189"</b>
Valve	Exh	1988-89	<b>10-10315</b>	0.967 Head Dia. 3.618 OAL
	Exh	1990-97	<b>10-10507</b>	0.965 Head Dia. 2.466 OAL
	Int	1988-89	<b>10-10314</b>	1.181 Head Dia. 0.235 Stem
	Int	1990-97	<b>10-10506</b>	1.221 Head Dia. 0.2354 Stem
Valve Seat Insert	Exh	1988-97	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	1988-97	<b>21-1250-54</b>	1.010T I.D. 1-1/4 O.D. 0.257 Depth
Guide	Both	1988-97	<b>30-8147</b>	1.520 OAL. 0.436 O.D.
Keeper	Both	1988-97	<b>34-5011</b>	1 Round Groove
Lifter	Both	1993-97	<b>36-2299</b>	93-97: Mechanical
	Both	1988-92	<b>36-6003</b>	88-92: Mechanical
Valve Stem Seal	Both	1988-97	<b>38-475-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1988-97	<b>97-116</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 11</b>	<b>1588cc (1.6L) OHV 2TC Vin T</b>			<b>1971-79 L4 BORE - 85mm/3.346"</b>
Valve	Exh	1971-79	<b>10-10071</b>	1.416 Head Dia.
	Int	1971-79	<b>10-10072</b>	1.615 Head Dia.
Valve Seat Insert	Exh	1971-79	<b>21-1500-59</b>	1.210T I.D. 1-1/2 O.D. 0.325 Depth
	Int	1971-79	<b>21-1687-50</b>	1.345T I.D. 1-11/16 O.D. 0.325 Depth
Guide	Exh	1971-79	<b>30-7534</b>	2.135 OAL
	Int	1971-79	<b>30-7540</b>	1.970 OAL
Spring	Both	1971-79	<b>32-1053</b>	1.658 Free Length.
Keeper	Both	1971-79	<b>34-811</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1971-79	<b>38-967-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1971-79	<b>97-44</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 12</b>	<b>1762cc (1.8L) DOHC 16V 7AFE Vin A, B</b>			<b>1993-97 L4 BORE - 81mm/3.189"</b>
Valve	Exh	1993-97	<b>10-10507</b>	0.965 Head Dia.
	Int	1993-97	<b>10-10506</b>	1.221 Head Dia. 0.2354 Stem
Valve Seat Insert	Exh	1993-97	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth
	Int	1993-97	<b>21-1250-54</b>	1.010T I.D. 1-1/4 O.D. 0.257 Depth
Guide	Both	1993-97	<b>30-8147</b>	1.520 OAL. 0.436 O.D.
Keeper	Both	1993-97	<b>34-5011</b>	1 Round Groove
Lifter	Both	1993-97	<b>36-2299</b>	Mechanical
Valve Stem Seal	Both	1993-98	<b>38-481-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1993-97	<b>97-44</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 13</b>	<b>1770cc (1.8L) 3TC Vin T 8V</b>			<b>1980-82 L4 BORE - 85mm/3.346"</b>
Valve	Exh	1980-82	<b>10-10071</b>	1.416 Head Dia.
	Int	1980-82	<b>10-10072</b>	1.615 Head Dia.
Valve Seat Insert	Exh	1980-82	<b>21-1500-59</b>	1.210T I.D. 1-1/2 O.D. 0.325 Depth
	Int	1980-82	<b>21-1687-50</b>	1.345T I.D. 1-11/16 O.D. 0.325 Depth
Guide	Exh	1980-82	<b>30-7534</b>	2.135 OAL
	Int	1980-82	<b>30-7540</b>	1.970 OAL

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 13</b>	<b>1770cc (1.8L) 3TC Vin T 8V</b>		<b>1980-82 L4</b>	<b>BORE - 85mm/3.346"</b>
Spring	Both	1980-82	<b>32-1053</b>	1.658 Free Length.
Keeper	Both	1980-82	<b>34-811</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1980-82	<b>38-967-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1980-82	<b>97-44</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 14</b>	<b>1794cc (1.8L) 1ZZFE(D) 16V DOHC Vin R</b>		<b>1998-09 L4</b>	<b>BORE - 79mm/3.11"</b>
Valve	Exh	1998-05	<b>10-10736</b>	1.082 Head Dia. 0.215 Stem. 98-99 Corolla. 98-05 Celica, MR2
	Exh	2000-08	<b>10-10781</b>	1.024 Head Dia. Corolla, Matrix
	Int	1998-05	<b>10-10735</b>	1.260 Head Dia. 0.215 Stem 98-99 Corolla. 98-053 Celica, MR2.
	Int	2000-08	<b>10-10780</b>	1.220 Head Dia. Corolla, Matrix
Guide	Both	1998-08	<b>30-8584</b>	1.360 OAL. 0.4075 O.D.
Spring	Both	2000-08	<b>32-2451</b>	1.709 Free Length
Keeper	Both	1998-08	<b>34-5023</b>	1 Round Bead. 0.215 Stem
Valve Stem Seal	Both	1998-08	<b>38-310-55</b>	Viton. Metal Clad
<b>LINE 15</b>	<b>1798cc (1.8L) DOHC 16V 2ZRFE/XE Vin U</b>		<b>2008-16 L4</b>	<b>BORE - 79mm/3.11"</b>
Valve	Exh	2008-16	<b>10-3205</b>	1.087 Head Diam. 0.215 Stem
	Int	2008-16	<b>10-3204</b>	1.260 Head Dia. 0.215 Stem.
Guide	Exh	2008-16	<b>30-3135</b>	1.850 OAL. 0.2175 I.D. 0.4072 O.D.
	Int	2008-16	<b>30-3134</b>	1.630 OAL. 0.2175 I.D. 0.4073 O.D.
Keeper	Both	2008-16	<b>34-5023</b>	1 Round Bead. 0.215 Stem
Lifter	Both	2008-16	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Exh	2008-16	<b>38-310-55</b>	Viton. Metal Clad
	Int	2008-16	<b>38-210-55</b>	Viton. Metal Clad
<b>LINE 16</b>	<b>1795cc (1.8L) DOHC 16V 2ZZGE</b>		<b>2000-06 L4</b>	<b>BORE: 82mm/3.23"</b>
Valve	Exh	2000-06	<b>10-2178S</b>	1.142 Head Dia.
	Int	2000-06	<b>10-2177</b>	1.339 Head Dia.
Guide	Both	2000-06	<b>30-3221</b>	1.693 OAL
Valve Stem Seal	Exh	2000-06	<b>38-310-55</b>	Viton. Metal Clad
	Int	2000-06	<b>38-210-55</b>	Viton. Metal Clad
<b>LINE 17</b>	<b>1838cc (1.8L) SOHC Diesel 1CLC, 1CTL Turbo Vin C 8V</b>		<b>1983-85 L4</b>	<b>BORE - 83mm/3.27"</b>
Valve Seat Insert	Int	1983-85	<b>20-1625-11</b>	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth. Adjustable Cutter Must Be Used To Allow For Proper Press Fit
	Exh	1983-85	<b>21-1375-54</b>	1.022T I.D. 1-3/8 O.D. 0.230 Depth
Valve Stem Seal	Both	1983-85	<b>38-982-25</b>	Polyacrylic. Metal Clad.
<b>LINE 18</b>	<b>1858cc (1.9L) SOHC 8R, 8RC</b>		<b>1965-72 L4</b>	<b>BORE - 86mm/3.39"</b>
Valve Seat Insert	Exh	1969-72	<b>21-1437-64</b>	1.100T I.D. 1-7/16 O.D. 0.227 Depth
	Int	1969-72	<b>21-1750-57</b>	1.430T I.D. 1-3/4 O.D. 0.215 Depth
Guide	Exh	1969-72	<b>30-7537</b>	1.813 OAL
Spring		1969-72	<b>32-1049</b>	1.740 Free Length. Inner
		1969-72	<b>32-1050</b>	1.830 Free Length. Outer
Keeper	Both	1965-72	<b>34-811</b>	1 Square Groove. Heat Treated
Expansion Plug Kit		1965-72	<b>97-46</b>	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 19</b>	<b>1896cc (1.9L) 3R, 3RB, 3RC</b>			<b>1964-70 L4</b>	<b>BORE - 88mm/3.40"</b>
Valve Seat Insert	Exh	1965-70	<b>21-1437-54</b>	1.230T I.D. 1-7/16 O.D. 0.250 Depth	
	Int	1965-70	<b>21-1750-56</b>	1.510T I.D. 1-3/4 O.D. 0.250 Depth	
Guide	Int	1965-70	<b>30-7538</b>	2.415 OAL	
Keeper	Both	1964-70	<b>34-811</b>	1 Square Groove. Heat Treated	
Expansion Plug Kit		1965-70	<b>97-45</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 20</b>	<b>1968cc (2.0L) SOHC 18RC</b>			<b>1972-74 L4</b>	<b>BORE - 88.5mm/3.40"</b>
Valve	Exh	1972-74	<b>10-10024S</b>	1.416 Head Dia.	
	Int	1972-74	<b>10-10018</b>	1.614 Head Dia.	
Valve Seat Insert	Exh	1972-74	<b>20-1500-3</b>	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. Head w/ Cast Integral Seats	
	Int	1972-74	<b>20-1750-4</b>	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Head w/ Cast Integral Seats.	
	Exh	1972-74	<b>21-1562-52</b>	1.190T I.D. 1-9/16 O.D. 0.315 Depth	
	Int	1972-74	<b>21-1750-58</b>	1.360T I.D. 1-3/4 O.D. 0.315 Depth	
Guide	Exh	1972-74	<b>30-7537</b>	2.247 OAL	
Spring	Both	1972-74	<b>32-1049</b>	1.740 Free Length. Inner	
	Both	1972-74	<b>32-1050</b>	1.830 Free Length. Outer	
Keeper	Both	1972-74	<b>34-811</b>	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1972-74	<b>38-968-45</b>	Viton. Top Hat.	
Expansion Plug Kit		1972-74	<b>97-46</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 21</b>	<b>1995cc (2.0L) SOHC 2SELV Vin S 8V</b>			<b>1983-86 L4</b>	<b>BORE - 84mm/3.307"</b>
Valve Seat Insert	Exh	1983-86	<b>21-1437-66</b>	1.120 I.D. 1-7/16 O.D. 0.300 Depth	
	Int	1983-86	<b>21-1687-55</b>	1.340 I.D. 1-11/16 O.D. 0.315 Depth	
Keeper	Both	1983-86	<b>34-811</b>	1 Square Groove. Heat Treated	
Lifter	Both	1983-86	<b>36-6004</b>	Hydraulic	
Valve Stem Seal	Both	1983-86	<b>38-967-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1983-86	<b>97-156</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 22</b>	<b>1998cc (2.0L) 3YEC Vin Y 8V</b>			<b>1984-85 L4</b>	<b>BORE - 86mm/3.386"</b>
Valve	Exh	1984-85	<b>10-10323</b>	1.417 Head Dia. 0.314 Stem	
	Int	1984-85	<b>10-10322</b>	1.575 Head Dia. 0.314 Stem	
Valve Seat Insert	Exh	1984-85	<b>21-1500-58</b>	1.200T I.D. 1-1/2 O.D. 0.315 Depth.	
	Int	1984-85	<b>21-1687-55</b>	1.340 I.D. 1-11/16 O.D. 0.315 Depth	
Guide	Exh	1984-85	<b>30-8202</b>	2.045 OAL. Incl. Lock Ring	
	Int	1984-85	<b>30-8201</b>	1.970 OAL. Incl. Lock Ring	
Spring	Both	1984-85	<b>32-1313</b>	1.846 Free Length	
Keeper	Both	1984-85	<b>34-5005</b>	1 Round Groove. OEM #90913-03014	
Lifter	Both	1984-85	<b>36-6005</b>	Hydraulic. Van	
Valve Stem Seal	Both	1984-85	<b>38-967-55</b>	Viton. Metal Clad.	
Expansion Plug Kit		1984-85	<b>97-132</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 23</b>	<b>1998cc (2.0L) DOHC 16V 3SGELC, 3SGTE Turbo Vin S</b>			<b>1986-95 L4</b>	<b>BORE - 86mm/3.386"</b>
Valve	Exh	1986-89	<b>10-10326S</b>	1.140 Head Dia. 4.019 OAL	
	Int	1986-89	<b>10-10324S</b>	1.318 Head Dia. 4.054 OAL	
	Int	1990-95	<b>10-10325</b>	1.319 Head Dia. 3.959 OAL	
Valve Seat Insert	Exh	1986-95	<b>21-1250-55</b>	1.005T I.D. 1-1/4 O.D. 0.255 Depth	
	Int	1986-95	<b>21-1437-67</b>	1.180T I.D. 1-7/16 O.D. 0.255 Depth.	
Guide	Both	1986-95	<b>30-8198</b>	1.775 OAL	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 23</b>	<b>1998cc (2.0L) DOHC 16V 3SGELC, 3SGTE Turbo Vin S</b>			<b>1986-95 L4</b>	<b>BORE - 86mm/3.386"</b>
Keeper	Both	1986-95	<b>34-5011</b>	1 Round Groove	
Lifter	Both	1986-89	<b>36-6003</b>	Mechanical	
	Both	1990-95	<b>36-7008</b>	Hydraulic. 3SGTE Turbo.	
Valve Stem Seal	Both	1986-95	<b>38-481-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1986-95	<b>97-156</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 24</b>	<b>1998cc (2.0L) DOHC 16V 3SFE Vin S, P</b>			<b>1987-00 L4</b>	<b>BORE - 86mm/3.386"</b>
Valve	Exh	1987-91	<b>10-10320S</b>	1.063 Head Dia.	
	Exh	1996-00	<b>10-10420</b>	1.063 Head Dia. 3.876 OAL	
	Int	1987-91	<b>10-10318</b>	1.260 Head Dia. Exc. 4WD	
	Int	1990-95	<b>10-10325</b>	1.319 Head Dia. 3.959 OAL	
	Int	1996-00	<b>10-10421</b>	1.260 Head Dia. 3.842 OAL	
Valve Seat Insert	Exh	1996-00	<b>21-1062-50</b>	0.790 I.D. 1-1/16 O.D. 0.254 Depth	
	Exh	1987-91	<b>21-1187-51</b>	0.905 I.D. 1-3/16 O.D. 0.257 Depth	
	Int	1987-00	<b>21-1375-56</b>	1.102 I.D. 1-3/8 O.D. 0.260 Depth.	
Guide	Both	1990-95	<b>30-8198</b>	1.775 OAL	
	Exh	1987-00	<b>30-8038</b>	1.595 OAL. +2 O/S Avail. Incl. Lock Ring	
	Int	1987-00	<b>30-8147</b>	1.520 OAL. 0.436 O.D.	
Spring	Both	1996-00	<b>32-2450</b>	1.645 Free Length	
Keeper	Both	1987-00	<b>34-5011</b>	1 Round Groove	
Lifter	Both	1996-00	<b>36-2299</b>	Mechanical. Rav4	
	Both	1987-91	<b>36-6003</b>	Camry, Celica. Mechanical	
	Both	1990-95	<b>36-7008</b>	MR2 Turbo	
Valve Stem Seal	Both	1987-00	<b>38-481-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1987-00	<b>97-156</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 25</b>	<b>1998cc (2.0L) DOHC 16V 1AZFE</b>			<b>2001-03 L4</b>	<b>BORE - 88mm/3.46"</b>
Valve	Exh	2001-03	<b>10-10799</b>	1.161 Head Dia. 0.2155 Stem	
	Int	2001-03	<b>10-10798</b>	1.339 Head Dia. 0.2156 Stem	
Guide	Exh	2001-03	<b>30-8585</b>	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.	
Keeper	Both	2001-03	<b>34-5023</b>	1 Round Groove. 0.215 Stem	
Valve Stem Seal	Exh	2001-03	<b>38-310-55</b>	Viton. Metal Clad	
	Int	2001-03	<b>38-210-55</b>	Viton. Metal Clad	
<b>LINE 26</b>	<b>1998cc (2.0L) DOHC 16V 8ARFTS</b>			<b>2015-16 L4</b>	<b>BORE - 79mm/3.11"</b>
Keeper	Both	2015-16	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
<b>LINE 27</b>	<b>2164cc (2.2L) DOHC 16V 5SFE Vin G,S</b>			<b>1990-01 L4</b>	<b>BORE - 87mm/3.40"</b>
Valve	Exh	1990-1/92	<b>10-10320S</b>	1.063 Head Dia. 3.955 OAL	
	Exh	2/92-01	<b>10-10420</b>	1.063 Head Dia. 3.876 OAL	
	Int	1990-1/92	<b>10-10318</b>	1.260 Head Dia. 3.963 OAL	
	Int	2/92-01	<b>10-10421</b>	1.260 Head Dia. 3.842 OAL	
Valve Seat Insert	Exh	1990-01	<b>21-1187-51</b>	0.905 I.D. 1-3/16 O.D. 0.257 Depth	
	Int	1990-01	<b>21-1375-56</b>	1.102 I.D. 1-3/8 O.D. 0.260 Depth.	
Guide	Both	1990-01	<b>30-8038</b>	90-94: Both. 95-01: Exh. 1.595 OAL. Incl. Lock Ring	
	Int	1995-01	<b>30-8147</b>	1.520 OAL. 0.436 O.D.	
Spring	Both	1993-95	<b>32-1550</b>	1.658 Free Length	
	Both	1996-01	<b>32-2450</b>	1.645 Free Length	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 27</b>	<b>2164cc (2.2L) DOHC 16V 5SFE Vin G,S</b>			<b>1990-01 L4</b>	<b>BORE - 87mm/3.40"</b>
Keeper	Both	1990-01	34-5011	1 Round Groove	
Lifter	Both	1992-01	36-2299	Mechanical.	
	Both	1990-91	36-6003	Mechanical	
Valve Stem Seal	Both	1990-01	38-475-45	Viton. Metal Clad.	
Expansion Plug Kit		1990-01	97-156	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 28</b>	<b>2188cc (2.2L) SOHC Diesel Vin L 8V</b>			<b>1981-83 L4</b>	<b>BORE - 88.5mm/3.40"</b>
Valve Seat Insert	Exh	1981-83	21-1437-67	1.180T I.D. 1-7/16 O.D. 0.255 Depth.	
	Int	1981-83	21-1750-50	1.500T I.D. 1-3/4 O.D. 0.255 Depth	
Guide	Both	1981-83	30-8196	2.400 OAL	
<b>LINE 29</b>	<b>2189cc (2.2L) SOHC 20R 8V Vin R</b>			<b>1975-80 L4</b>	<b>BORE - 88.5mm/3.40"</b>
Valve	Exh	1975-80	10-10037	1.419 Head Dia.	
	Int	1975-80	10-10048	1.692 Head Dia.	
Valve Seat Insert	Exh	1975-80	21-1500-61	1.220T I.D. 1-1/2 O.D. 0.315 Depth	
	Int	1975-80	21-1812-53	1.420T I.D. 1-13/16 O.D. 0.315 Depth	
Guide	Both	1975-80	30-7523	2.260 OAL. +2 O/S Avail. Incl. Lock Ring	
Spring	Both	1977-80	32-1135	1.780 Free Length. Inner	
Keeper	Both	1975-80	34-811	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1975-80	38-967-55	Viton. Metal Clad.	
Rocker Component	Both	1975-80	40-9106	Rocker Arm. Cast Aluminum.	
		1975-80	42-2070	Rocker Shaft	
Expansion Plug Kit		1975-80	97-68	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 30</b>	<b>2237cc (2.2L) SOHC 4YEC</b>			<b>1986-90 L4</b>	<b>BORE - 81mm/3.189"</b>
Valve	Exh	1986-90	10-10323	1.417 Head Dia. 0.314 Stem	
	Int	1986-90	10-10322	1.575 Head Dia. 0.314 Stem	
Valve Seat Insert	Exh	1986-90	21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.	
	Int	1986-90	21-1687-55	1.340 I.D. 1-11/16 O.D. 0.315 Depth	
Guide	Exh	1986-90	30-8202	2.045 OAL. Incl. Lock Ring	
	Int	1986-90	30-8201	1.970 OAL. Incl. Lock Ring	
Spring	Both	1986-90	32-1313	1.846 Free Length	
Keeper	Both	1986-90	34-5005	1 Round Groove. OEM #90913-03014	
Lifter	Both	1986-89	36-6005	Hydraulic. Van	
Valve Stem Seal	Both	1986-90	38-967-55	Viton. Metal Clad.	
Expansion Plug Kit		1986-90	97-132	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 31</b>	<b>2253cc (2.3L) SOHC 2M</b>			<b>1968-72 L6</b>	<b>BORE - 75mm/2.953"</b>
Valve Seat Insert	Int	1968-72	21-1750-59	1.360T I.D. 1-3/4 O.D. 0.315 Depth	
Keeper	Both	1969-72	34-811	1 Square Groove. Heat Treated	
Valve Stem Seal	Int	1968-72	38-968-45	Viton. Top Hat.	
Expansion Plug Kit		1968-72	97-77	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 32</b>	<b>2362cc (2.4L) DOHC 16V 2AZFE\XE</b>			<b>2001-14 L4</b>	<b>BORE - 88.4mm/3.48</b>
Valve	Exh	2001-13	10-10799	1.161 Head Dia.	
	Int	2001-13	10-10798	1.339 Head Dia.	
Guide	Both	2001-13	30-8585	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.	
Keeper	Both	2001-13	34-5023	1 Round Bead. 0.215 Stem	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 32</b>	<b>2362cc (2.4L) DOHC 16V 2AZFE\XE</b>			<b>2001-14 L4</b>	<b>BORE - 88.4mm/3.48</b>
Valve Stem Seal	Exh	2001-13	38-310-55	Viton. Metal Clad	
	Int	2001-13	38-210-55	Viton. Metal Clad	
<b>LINE 33</b>	<b>2366cc (2.4L) SOHC 22R, 22RE, 22REC, 22RTEC</b>			<b>1981-96 L4</b>	<b>BORE - 92mm/3.60"</b>
Valve	Exh	1981-96	10-10330	1.457 Head Dia.	
	Int	1981-96	10-10328	1.770 Head Dia. 0.3134 Stem	
Valve Seat Insert	Exh	1981-96	21-1562-67	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
	Int	1981-96	21-1937-52	1.540T I.D. 1-15/16 O.D. 0.315 Depth.	
Guide	Both	1981-96	30-7523	2.260 OAL. +2 O/S Avail. Incl. Lock Ring	
Spring	Both	1981-84	32-1135	1.780 Free Length. Inner	
	Both	1985-96	32-1405	1.923 Free Length	
Keeper	Both	1981-96	34-811	1 Square Groove. Heat Treated	
Valve Stem Seal	Both	1981-96	38-967-55	Viton. Metal Clad.	
Rocker Component	Both	1981-95	40-9106	Rocker Arm. Cast Aluminum.	
		1981-95	42-2070	Rocker Shaft	
Retainer	Both	1985-96	55-6922	Chrome Moly. 1.295 O.D. 0.313 Stem	
Expansion Plug Kit		1981-96	97-68	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 34</b>	<b>2438cc (2.4L) DOHC 16V 2TZFE, 2TZFZE</b>			<b>1990-97 L4</b>	<b>BORE - 95mm/3.70"</b>
Valve	Exh	1991-97	10-10474	1.201 Head Dia. 0.235 Stem	
	Int	1991-97	10-10473	1.417 Head Dia.	
Valve Seat Insert	Exh	1991-97	21-1312-67	1.042 I.D. 1-5/16 O.D. 0.238 Depth. Also Avail, In Nickel Matl. (-N)	
	Int	1991-97	21-1562-66	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
Guide	Exh	1991-97	30-8273	1.890 OAL. Incl. Lock Ring	
	Int	1991-97	30-8038	1.595 OAL. +2 O/S Avail. Incl. Lock Ring	
Keeper	Both	1991-97	34-5011	1 Round Groove	
Lifter	Both	1990-97	36-2299	Mechanical. Previa	
Valve Stem Seal	Both	1990-97	38-481-45	Viton. Metal Clad.	
<b>LINE 35</b>	<b>2438cc (2.4L) DOHC 16V 2RZFE Vin L, U</b>			<b>1995-04 L4</b>	<b>BORE - 95mm/3.74"</b>
Valve	Exh	1995-04	10-10474	1.201 Head Dia. 0.235 Stem	
	Int	1995-04	10-10321	1.476 Head Dia. 0.235 Stem	
Valve Seat Insert	Exh	1995-04	21-1312-67	1.042 I.D. 1-5/16 O.D. 0.238 Depth. Also Avail, In Nickel Matl. (-N)	
	Int	1995-04	21-1562-66	1.265T I.D. 1-9/16 O.D. 0.280 Depth.	
Guide	Exh	1995-04	30-8273	1.890 OAL. Incl. Lock Ring	
	Int	1995-04	30-8038	1.595 OAL. 0.435 O.D. 0.4355 Stem Incl. Lock Ring	
Keeper	Exh	1995-04	34-5011	1 Round Groove	
Lifter	Both	1995-04	36-6010	Mechanical	
Valve Stem Seal	Both	1995-04	38-120-45	Viton. Metal Clad.	
<b>LINE 36</b>	<b>2446cc (2.4L) SOHC Diesel 2L, 2LT</b>			<b>1984-87 L4</b>	<b>BORE - 92mm/3.60"</b>
Valve Seat Insert	Exh	1984-87	21-1437-67	1.180T I.D. 1-7/16 O.D. 0.255 Depth.	
	Int	1984-87	21-1750-50	1.500T I.D. 1-3/4 O.D. 0.255 Depth	
Spring	Int	1984-87	32-1135	1.800 Free Length. Outer	
<b>LINE 37</b>	<b>2494cc (2.5L) DOHC 16V 2ARFE</b>			<b>2009-16 L4</b>	<b>BORE - 89.9mm/3.54"</b>
Valve	Exh	2009-16	10-3199	1.222 Head Dia. 0.212 Stem	
	Int	2009-16	10-3198	1.433 Head Dia. 0.212 Stem	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 37</b>	<b>2494cc (2.5L) DOHC 16V 2ARFE</b>		<b>2009-16 L4</b>	<b>BORE - 89.9mm/3.54"</b>
Guide	Exh	2009-16	30-3135	1.850 OAL. 0.2175 I.D. 0.4072 O.D.
	Int	2009-16	30-3134	1.630 OAL. 0.2175 I.D. 0.4073 O.D.
Keeper	Both	2009-16	34-5023	1 Round Bead. 0.215 Stem
Lifter	Both	2001-16	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Exh	2009-16	38-310-55	Viton. Metal Clad
	Int	2009-16	38-210-55	Viton. Metal Clad
<b>LINE 38</b>	<b>2499cc (2.5L) DOHC 24V 4GRFSE</b>		<b>2006-15 V6</b>	<b>BORE - 83mm/3.27"</b>
Guide	Exh	2006-15	30-3135	1.850 OAL. 0.2175 I.D. 0.4072 O.D.
	Int	2006-15	30-3134	1.630 OAL. 0.2175 I.D. 0.4073 O.D.
Keeper	Both	2006-15	34-5023	1 Round Bead. 0.215 Stem
Lifter	Both	2006-10	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Exh	2006-15	38-310-55	Viton. Metal Clad
	Int	2006-15	38-210-55	Viton. Metal Clad
<b>LINE 39</b>	<b>2508cc (2.5L) DOHC 24V 2VZFE</b>		<b>1988-91 V6</b>	<b>BORE - 87.5mm/3.40"</b>
Valve	Exh	1988-91	10-10333	1.074 Head Dia.
	Int	1988-91	10-10332S	1.299 Head Dia.
Valve Seat Insert	Exh	1988-91	21-1187-53	0.935 I.D. 1-3/16 O.D. 0.235 Depth
	Int	1988-91	21-1375-50	1.109T I.D. 1-3/8 O.D. 0.255 Depth
Guide	Both	1988-91	30-8038	1.595 OAL. +2 O/S Avail. Incl. Lock Ring
Keeper	Both	1988-91	34-5011	1 Round Groove
Lifter	Both	1988-91	36-6003	Mechanical. (misprint 36-2299)
Valve Stem Seal	Both	1988-91	38-481-45	Viton. Metal Clad.
Expansion Plug Kit		1988-91	97-159	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 40</b>	<b>2563cc (2.6L) SOHC 4M, 4ME Vin M</b>		<b>1971-80 L6</b>	<b>BORE - 80mm/3.15"</b>
Valve Seat Insert	Exh	1978-80	21-1437-56	1.110T I.D. 1-7/16 O.D. 0.315 Depth
	Int	1978-80	21-1625-52	1.260T I.D. 1-5/8 O.D. 0.315 Depth
	Int	1971-77	21-1750-59	1.360T I.D. 1-3/4 O.D. 0.315 Depth
Keeper	Both	1971-80	34-811	1 Square Groove. Heat Treated
Expansion Plug Kit		1971-80	97-77	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 41</b>	<b>2672cc (2.7L) DOHC 16V 1ARFE</b>		<b>2009-16 L4</b>	<b>BORE - 89.9mm/3.50"</b>
Valve	Exh	2009-15	10-3199	1.222 Head Dia. 0.212 Stem
	Int	2009-15	10-3198	1.433 Head Dia. 0.212 Stem
Guide	Exh	2009-15	30-3135	1.850 OAL. 0.2175 I.D. 0.4072 O.D.
	Int	2009-15	30-3134	1.630 OAL. 0.2175 I.D. 0.4073 O.D.
Keeper	Both	2009-15	34-5023	1 Round Bead. 0.215 Stem
Lifter	Both	2009-15	36-7082	Hydraulic Lash Adjuster
Valve Stem Seal	Exh	2009-15	38-310-55	Viton. Metal Clad
	Int	2009-15	38-210-55	Viton. Metal Clad
<b>LINE 42</b>	<b>2693cc (2.7L) DOHC FI 16V 2TRFE</b>		<b>2005-16 L4</b>	<b>BORE - 95mm/3.74"</b>
Valve	Exh	2005-15	10-3089	1.240 Head Dia. 0.216 Stem.
	Int	2005-15	10-3088	1.476 Head Dia. 0.215 Stem
Guide	Both	2005-15	30-3248	1.715 OAL. 0.2175 I.D.
Keeper	Both	2005-15	34-5023	1 Round Bead. 0.215 Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 42</b>	<b>2693cc (2.7L) DOHC FI 16V 2TRFE</b>			<b>2005-16 L4 BORE - 95mm/3.74"</b>
Lifter	Both	2005-15	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Exh	2005-15	<b>38-310-55</b>	Viton. Metal Clad
	Int	2005-15	<b>38-210-55</b>	Viton. Metal Clad
<b>LINE 43</b>	<b>2694cc (2.7L) DOHC 16V 3RZFE Vin M,U</b>			<b>1994-04 L4 BORE - 95mm/3.70"</b>
Valve	Exh	1994-04	<b>10-10474</b>	1.201 Head Dia. 0.235 Stem
	Int	1994-04	<b>10-10321</b>	1.476 Head Dia. 0.2352 Stem
Valve Seat Insert	Exh	1994-04	<b>21-1312-67</b>	1.042 I.D. 1-5/16 O.D. 0.238 Depth. Also Avail, In Nickel Matl. (-N)
	Int	1994-04	<b>21-1562-66</b>	1.265T I.D. 1-9/16 O.D. 0.280 Depth.
Guide	Exh	1994-04	<b>30-8273</b>	1.890 OAL. Incl. Lock Ring
	Int	1994-04	<b>30-8038</b>	1.595 OAL. +2 O/S Avail. Incl. Lock Ring
Keeper	Exh	1994-04	<b>34-5011</b>	1 Round Groove
Lifter	Both	1994-04	<b>36-2299</b>	Mechanical
Valve Stem Seal	Both	1994-04	<b>38-475-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1994-04	<b>97-161</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 44</b>	<b>2759cc (2.8L) SOHC 5ME</b>			<b>1981-82 L6 BORE - 83mm/3.2677"</b>
Valve	Int	1981-82	<b>10-10334</b>	1.654 Head Dia.
Valve Seat Insert	Exh	1981-82	<b>21-1437-56</b>	1.110T I.D. 1-7/16 O.D. 0.315 Depth
	Int	1981-82	<b>21-1750-63</b>	1.410T I.D. 1-3/4 O.D. 0.315 Depth
Keeper	Both	1981-82	<b>34-811</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1981-82	<b>38-480-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1981-82	<b>97-77</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 45</b>	<b>2759cc (2.8L) DOHC 5MGE 12V</b>			<b>1982-88 L6 BORE - 83mm/3.2677"</b>
Guide	Both	1982-88	<b>30-8018</b>	1.870 OAL. Incl. Lock Ring
Keeper	Both	1982-88	<b>34-811</b>	1 Square Groove. Heat Treated
Lifter	Both	1982-88	<b>36-6004</b>	Hydraulic
Valve Stem Seal	Both	1982-88	<b>38-480-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1982-88	<b>97-162</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 46</b>	<b>2954cc (3.0L) DOHC 24V 7MGE, 7MGTE Vin M</b>			<b>1986-92 L6 BORE - 83mm/3.2677"</b>
Valve	Exh	1986-92	<b>10-10338S</b>	1.083 Head Dia.
	Int	1986-92	<b>10-10337</b>	1.260 Head Dia.
Valve Seat Insert	Exh	1986-92	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth.
	Int	1986-92	<b>21-1312-60</b>	1.070T I.D. 1-5/16 O.D. 0.257 Depth
Guide	Exh	1986-92	<b>30-8038</b>	1.595 OAL. +2 O/S Avail. Incl. Lock Ring
	Int	1986-92	<b>30-8208</b>	1.455 OAL. Incl. Lock Ring
Keeper	Both	1986-92	<b>34-5011</b>	1 Round Groove
Lifter	Both	1986-92	<b>36-6003</b>	Mechanical
Valve Stem Seal	Both	1986-92	<b>38-481-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1986-92	<b>97-162</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 47</b>	<b>2958cc (3.0L) SOHC 12V 3VZE Vin V</b>			<b>1988-95 V6 BORE - 87.5mm/3.40"</b>
Valve	Exh	1988-95	<b>10-10340</b>	1.378 Head Dia. 0.314 Stem
	Int	1988-95	<b>10-10339S</b>	1.654 Head Dia. 0.314 Stem
Valve Seat Insert	Exh	1988-95	<b>21-1562-69</b>	1.219 I.D. 1-9/16 O.D. 0.317 Depth.
	Exh	1988-95	<b>21-1562-72</b>	1.180 I.D. 1-9/16 O.D. 0.316 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 47</b>	<b>2958cc (3.0L) SOHC 12V 3VZE Vin V</b>		<b>1988-95 V6</b>	<b>BORE - 87.5mm/3.40"</b>
Valve Seat Insert	Int	1988-95	<b>21-1750-68</b>	1.415 I.D. 1-3/4 O.D. 0.316 Depth. O/S O.D.
Guide	Both	1988-95	<b>30-8207</b>	1.820 OAL. Incl. Lock Ring. 0.514 O.D.
Keeper	Both	1988-95	<b>34-5005</b>	1 Round Groove. OEM #90913-03014
Lifter	Both	1988-95	<b>36-6010</b>	Mechanical
Valve Stem Seal	Both	1988-95	<b>38-480-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1988-95	<b>97-159</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 48</b>	<b>2959cc (3.0L) DOHC 24V 3VZFE Vin V</b>		<b>1992-93 V6</b>	<b>BORE - 87.5mm/3.40"</b>
Valve	Exh	1992-93	<b>10-10306S</b>	1.073 Head Dia. 0.235 Stem
	Int	1992-93	<b>10-10305</b>	1.339 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1992-93	<b>21-1187-53</b>	0.935 I.D. 1-3/16 O.D. 0.235 Depth
	Int	1992-93	<b>21-1437-72</b>	1.150T I.D. 1-7/16 O.D. 0.257 Depth
Guide	Both	1992-93	<b>30-8038</b>	1.595 OAL. 0.435 O.D. +2 O/S Avail. Incl. Lock Ring
Keeper	Both	1992-93	<b>34-5011</b>	1 Round Groove
Lifter	Both	1992-93	<b>36-2299</b>	Mechanical
Valve Stem Seal	Both	1992-93	<b>38-537-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1992-93	<b>97-159</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 49</b>	<b>2995cc (3.0L) DOHC 24V 1MZFE Vin F,G</b>		<b>1994-06 V6</b>	<b>BORE - 87.5mm/3.40"</b>
Valve	Exh	1994-06	<b>10-10553S</b>	1.073 Head Dia. Stellite Faced
	Int	1994-06	<b>10-10552</b>	1.339 Head Dia.
Valve Seat Insert	Exh	1994-06	<b>21-1187-53</b>	0.935 I.D. 1-3/16 O.D. 0.235 Depth
	Int	1994-06	<b>21-1437-72</b>	1.150T I.D. 1-7/16 O.D. 0.257 Depth
Guide	Exh	1994-06	<b>30-8585</b>	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.
	Int	1994-06	<b>30-8584</b>	1.360 OAL. 0.4075 O.D.
Keeper	Both	1994-06	<b>34-5023</b>	1 Round Bead. 0.215 Stem
Lifter	Both	1994-06	<b>36-2299</b>	Mechanical
Valve Stem Seal	Exh	1994-06	<b>38-310-55</b>	Viton. Metal Clad
	Int	1994-06	<b>38-210-55</b>	Viton. Metal Clad
Expansion Plug Kit		1994-06	<b>97-159</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 50</b>	<b>2994cc (3.0L) DOHC 24V 3GRFSE</b>		<b>2006-06 V6</b>	<b>BORE -</b>
Guide	Exh	2006-06	<b>30-3135</b>	1.850 OAL. 0.2175 I.D. 0.4072 O.D.
Keeper	Both	2006-06	<b>34-5023</b>	1 Round Bead. 0.215 Stem
Valve Stem Seal	Exh	2006-06	<b>38-310-55</b>	Viton. Metal Clad
	Int	2006-06	<b>38-210-55</b>	Viton. Metal Clad
<b>LINE 51</b>	<b>2997cc (3.0L) DOHC 24V 2JZGE, 2JZGTE Turbo</b>		<b>1992-05 L6</b>	<b>BORE - 86mm/3.386"</b>
Valve	Exh	1992-05	<b>10-10519</b>	1.142 Head Dia.
	Int	1992-05	<b>10-10518</b>	1.319 Head Dia.
Valve Seat Insert	Exh	1992-05	<b>21-1250-58</b>	0.955 I.D. 1-1/4 O.D. 0.255 Depth
	Int	1992-05	<b>21-1437-72</b>	1.150T I.D. 1-7/16 O.D. 0.257 Depth
Guide	Exh	1992-05	<b>30-8038</b>	1.595 OAL. +2 O/S Avail. Incl. Lock Ring
	Int	1992-05	<b>30-8147</b>	1.520 OAL. 0.436 O.D.
Lifter	Both	1992-05	<b>36-2299</b>	Mechanical
Valve Stem Seal	Both	1992-05	<b>38-481-45</b>	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 52</b>	<b>3310cc (3.3L) DOHC 24V 3MZFE</b>				<b>2004-10 V6 BORE - 92mm/3.62"</b>
Valve	Exh	2004-10	<b>10-10553S</b>	1.073 Head Dia.	
	Int	2004-10	<b>10-10552</b>	1.339 Head Dia.	
Guide	Exh	2004-10	<b>30-8585</b>	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.	
	Int	2004-10	<b>30-8584</b>	1.360 OAL. 0.4075 O.D.	
Keeper	Both	2004-10	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
Lifter	Both	2004-10	<b>36-7086</b>	Hydraulic	
Valve Stem Seal	Exh	2004-10	<b>38-310-55</b>	Viton. Metal Clad.	
	Int	2004-10	<b>38-210-55</b>	Viton. Metal Clad	
<b>LINE 53</b>	<b>3378cc (3.4L) DOHC 24V 5VZFE Vin N, V</b>				<b>1995-04 V6 BORE - 93.5mm/3.68"</b>
Valve	Exh	1995-04	<b>10-10306S</b>	1.073 Head Dia. 6mm stem.	
	Int	1995-04	<b>10-10305</b>	1.339 Head Dia. 6mm stem.	
Valve Seat Insert	Exh	1995-04	<b>21-1187-53</b>	0.935 I.D. 1-3/16 O.D. 0.235 Depth	
	Int	1995-04	<b>21-1437-72</b>	1.150T I.D. 1-7/16 O.D. 0.257 Depth	
Guide	Both	1995-04	<b>30-8038</b>	1.595 OAL. 0.4350 O.D. +2 O/S Avail. Incl. Lock Ring	
Keeper	Both	1995-04	<b>34-5011</b>	1 Round Groove	
Lifter	Both	1995-04	<b>36-2299</b>	Mechanical Bucket	
Valve Stem Seal	Both	1996-04	<b>38-120-45</b>	Viton. Metal Clad.	
Expansion Plug Kit		1995-04	<b>97-159</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 54</b>	<b>3456cc (3.5L) DOHC 24V 2GRFE/SE/XE</b>				<b>2005-16 V6 BORE - 94mm/3.70"</b>
Valve	Exh	2005-15	<b>10-13087</b>	1.256 Head Dia. 0.215 Stem	
	Int	2005-15	<b>10-13086</b>	1.495 Head Dia. 0.2155 Stem	
Guide	Exh	2005-15	<b>30-3135</b>	1.850 OAL. 0.2175 I.D. 0.4072 O.D.	
	Int	2005-15	<b>30-3134</b>	1.630 OAL. 0.2175 I.D. 0.4073 O.D.	
Keeper	Both	2005-15	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
Lifter	Both	2005-15	<b>36-7082</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Exh	2005-15	<b>38-310-55</b>	Viton. Metal Clad	
	Int	2005-15	<b>38-210-55</b>	Viton. Metal Clad	
<b>LINE 55</b>	<b>3878cc (3.9L) F, FJ 12V</b>				<b>1960-75 L6 BORE - 90mm/3.50"</b>
Valve	Exh	1960-75	<b>10-10069</b>	1.478 Head Dia.	
	Int	1960-75	<b>10-10070</b>	1.810 Head Dia.	
Valve Seat Insert	Exh	1960-75	<b>21-1625-58</b>	1.280T I.D. 1-5/8 O.D. 0.315 Depth.	
	Int	1960-75	<b>21-1937-51</b>	1.540T I.D. 1-15/16 O.D. 0.315 Depth.	
Guide	Exh	1960-65	<b>30-7527</b>	2.360 OAL	
	Exh	1966-75	<b>30-7529</b>	2.322 OAL.	
	Int	1960-65	<b>30-7528</b>	2.765 OAL	
	Int	1966-75	<b>30-7532</b>	2.130 OAL	
Spring	Both	1967-75	<b>32-1096</b>	2.000 Free Length	
Keeper	Both	1967-75	<b>34-208</b>	3 Groove. Heat Treated	
Valve Stem Seal	Both	1967-75	<b>38-971-45</b>	Viton. Umbrella.	
Expansion Plug Kit		1960-75	<b>97-70</b>	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 56</b>	<b>3955cc (4.0L) 3F, 3FE 12V Vin F</b>				<b>1988-92 L6 BORE - 93.9mm/3.60"</b>
Valve	Exh	1988-92	<b>10-10342S</b>	1.476 Head Dia. 0.313 Stem	
	Int	1988-92	<b>10-10070</b>	1.811 Head Dia. 0.314 Stem. 3 Groove	
Valve Seat Insert	Exh	1988-92	<b>21-1625-58</b>	1.280T I.D. 1-5/8 O.D. 0.315 Depth.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 56</b>	<b>3955cc (4.0L) 3F, 3FE 12V Vin F</b>		<b>1988-92 L6</b>	<b>BORE - 93.9mm/3.60"</b>
Valve Seat Insert	Int	1988-92	21-1937-51	1.540T I.D. 1-15/16 O.D. 0.315 Depth.
Guide	Exh	1988-92	30-7529	2.322 OAL.
	Int	1988-92	30-7532	2.130 OAL.
Spring	Both	1988-92	32-1096	2.000 Free Length
Keeper	Exh	1988-92	34-811	1 Square Groove. Heat Treated
	Int	1989-92	34-208	3 Groove. Heat Treated
Valve Stem Seal	Both	1988-92	38-971-45	Viton. Umbrella.
<b>LINE 57</b>	<b>3956cc (4.0L) DOHC 24V 1GRFE</b>		<b>2003-16 V6</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2010-15	10-13087	1.256 Head Dia. 0.215 Stem
	Exh	2003-15	10-13089	1.160 Head Dia.
	Int	2010-15	10-13086	1.495 Head Dia. 0.2155 Stem
	Int	2003-15	10-13088	1.436 Head Dia. 0.216 Stem.
Guide	Exh	2003-15	30-8585	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.
	Int	2003-15	30-8584	1.360 OAL
Keeper	Both	2003-15	34-5023	1 Round Bead. 0.215 Stem
Valve Stem Seal	Exh	2003-15	38-310-55	Viton. Metal Clad
	Int	2003-15	38-210-55	Viton. Metal Clad
<b>LINE 58</b>	<b>3969cc (4.0L) DOHC 32V 1UZFE Vin H, U</b>		<b>1990-00 V8</b>	<b>BORE - 87.5mm/3.40"</b>
Valve	Exh	1990-97	10-10166	1.102 Head Dia.
	Exh	1998-00	10-10738S	1.142 Head Dia.
	Int	1990-97	10-10165	1.319 Head Dia.
	Int	1998-00	10-10737	1.354 Head Dia.
Valve Seat Insert	Exh	1990-97	21-1250-58	0.955 I.D. 1-1/4 O.D. 0.255 Depth
	Int	1990-97	21-1437-72	1.150T I.D. 1-7/16 O.D. 0.257 Depth
Guide	Both	1990-97	30-8273	1.890 OAL. Incl. Lock Ring
	Exh	1998-00	30-8585	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.
	Int	1998-00	30-8584	1.360 OAL. 0.4075 O.D.
Keeper	Both	1990-00	34-5011	1 Round Groove
Lifter	Both	1998-00	36-7074	Hydraulic
Valve Stem Seal	Both	1990-00	38-475-45	Viton. Metal Clad.
	Both	1990-97	38-520-45	Viton. Metal Clad.
	Int	1998-00	38-310-55	Viton. Metal Clad
<b>LINE 59</b>	<b>4230cc (4.2L) 2F Vin F 12V</b>		<b>1975-87 L6</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	1975-87	10-10069	1.478 Head Dia.
	Int	1975-87	10-10070	1.811 Head Dia.
Valve Seat Insert	Exh	1975-87	21-1625-58	1.280T I.D. 1-5/8 O.D. 0.315 Depth.
	Int	1975-87	21-1937-51	1.540T I.D. 1-15/16 O.D. 0.315 Depth.
Guide	Exh	1975-87	30-7527	2.360 OAL
	Int	1975-87	30-7528	2.765 OAL
Spring	Both	1975-80	32-1096	2.000 Free Length
Keeper	Both	1975-87	34-208	3 Groove. Heat Treated
Valve Stem Seal	Both	1975-79	38-971-45	Viton. Umbrella.
Expansion Plug Kit		1975-87	97-69	Steel Kit. Brass Kit Avail. In Suffix B



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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 60</b>	<b>4293cc (4.3L) DOHC 32V 3UZFE</b>			<b>2001-10 V8</b>	<b>BORE - 91mm/3.58"</b>
Valve	Exh	2001-09	<b>10-10738S</b>	1.142 Head Dia.	
	Int	2001-09	<b>10-10737</b>	1.354 Head Dia.	
Guide	Exh	2001-09	<b>30-8585</b>	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.	
	Int	2001-09	<b>30-8584</b>	1.360 OAL. 0.4075 O.D.	
Keeper	Both	2001-09	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
Lifter	Both	2001-09	<b>36-7074</b>	Shim Cup	
Valve Stem Seal	Both	2001-09	<b>38-310-55</b>	Viton. Metal Clad	
<b>LINE 61</b>	<b>4477cc (4.5L) DOHC 24V 1FZFE Vin D, J</b>			<b>1993-97 L6</b>	<b>BORE - 100mm/3.94"</b>
Valve	Exh	1993-97	<b>10-10680</b>	1.260 Head Dia.	
	Int	1993-97	<b>10-10679</b>	1.496 Head Dia.	
Guide	Both	1993-97	<b>30-8586</b>	1.660 OAL	
Valve Stem Seal	Both	1993-97	<b>38-967-55</b>	Viton. Metal Clad.	
<b>LINE 62</b>	<b>4608cc (4.6L) DOHC 32V 1URFSE</b>			<b>2007-16 V8</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2007-15	<b>10-13087</b>	1.256 Head Dia. 0.215 Stem	
	Int	2007-15	<b>10-13086</b>	1.491 Head Dia.	
Guide	Exh	2007-15	<b>30-3135</b>	1.850 OAL. 0.2175 I.D. 0.4072 O.D.	
	Int	2007-15	<b>30-3134</b>	1.630 OAL. 0.2175 I.D. 0.4073 O.D.	
Keeper	Both	2007-15	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
Lifter	Both	2007-15	<b>36-7082</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Exh	2007-15	<b>38-310-55</b>	Viton. Metal Clad	
	Int	2007-15	<b>38-210-55</b>	Viton. Metal Clad	
<b>LINE 63</b>	<b>4663cc (4.7L) DOHC 32V 2UZFE Vin T</b>			<b>1998-09 V8</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	1998-09	<b>10-10738S</b>	1.142 Head Dia.	
	Int	1998-09	<b>10-10737</b>	1.354 Head Dia.	
Guide	Exh	1998-09	<b>30-8585</b>	1.590 OAL. 0.4075 O.D. 31-8585 Bronze Also Avail.	
	Int	1998-09	<b>30-8584</b>	1.360 OAL. 0.4075 O.D.	
Keeper	Both	1998-09	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
Lifter	Both	1998-09	<b>36-7074</b>	Shim Cup	
Valve Stem Seal	Both	1998-09	<b>38-310-55</b>	Viton. Metal Clad	
<b>LINE 64</b>	<b>4969cc (5.0L) DOHC 32V 2UR-FSE/GSE</b>			<b>2008-16 V8</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2008-13	<b>10-13087</b>	1.256 Head Dia. 0.215 Stem	
	Int	2008-12	<b>10-13086</b>	1.495 Head Dia. 0.2155 Stem	
Guide	Exh	2008-15	<b>30-3135</b>	1.850 OAL. 0.2175 I.D. 0.4072 O.D.	
	Int	2008-15	<b>30-3134</b>	1.630 OAL. 0.2175 I.D. 0.4073 O.D.	
Keeper	Both	2008-15	<b>34-5023</b>	1 Round Bead. 0.215 Stem	
Valve Stem Seal	Exh	2008-15	<b>38-310-55</b>	Viton. Metal Clad	
	Int	2008-15	<b>38-210-55</b>	Viton. Metal Clad	
<b>LINE 65</b>	<b>5663cc (5.7L) DOHC 32V VVT 3URFE/BE</b>			<b>2007-16 V8</b>	<b>BORE - 94mm/3.70"</b>
Valve	Exh	2007-15	<b>10-13087</b>	1.256 Head Dia. 0.215 Stem	
	Int	2007-15	<b>10-13086</b>	1.495 Head Dia. 0.2155 Stem	
Guide	Exh	2007-15	<b>30-3135</b>	1.850 OAL. 0.2175 I.D. 0.4072 O.D.	
	Int	2007-15	<b>30-3134</b>	1.630 OAL. 0.2175 I.D. 0.4073 O.D.	
Keeper	Both	2007-15	<b>34-5023</b>	1 Round Bead. 0.215 Stem	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 65</b>				
<b>5663cc (5.7L) DOHC 32V VVT 3URFE/BE</b>				
<b>2007-16 V8 BORE - 94mm/3.70"</b>				
Lifter	Both	2007-15	<b>36-7082</b>	Hydraulic Lash Adjuster
Valve Stem Seal	Exh	2007-15	<b>38-310-55</b>	Viton. Metal Clad
	Int	2007-15	<b>38-210-55</b>	Viton. Metal Clad

<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
1192cc 36-40 HP, 1285cc F	1954-66	H4	1
1395cc (1.4L) SOHC 16V TRB CNLA	2013-16	L4	2
1457cc (1.5L) SOHC FI 8V EH, FX	1978-80	L4	3
1471cc (1.5L) SOHC Gas (XR-XZ, FC, FG) & Diesel (CK)	1973-80	L4	4
1493cc (1.5L), 1594 (1.6L) H	1966-79	H4	5
1588cc (1.6L) SOHC Gas FI 8V EE EJ YG YH YK	1975-80	L4	6
1588cc (1.6L) SOHC Diesel T 8V Vin F-H CR CS CY JK	1981-92	L4	7
1598cc (1.6L) DOHC 16V (Non-USA)	2014-16	L4	8
1599cc (1.6L) SOHC 8V ABU (Non-USA)	2000-11	L4	9
1600cc (1.6L) 8V (Non-USA) Air Cooled	1971-03	L4	10
1679cc (1.7L) H	1971-74	L4	11
1715cc (1.7L) SOHC 8V Vin A, B, EN, JF, WT	1978-87	L4	12
1760 (1.8L) Gas Carb ZT, ZY	1970-73	L4	13
1780cc (1.8L) SOHC 8V Vin A-C,K,2H,ABG,GX,HT,JH,JN	1982-97	L4	14
1780cc (1.8L) DOHC 16V PL Vin B, C	1986-89	L4	15
1781cc (1.8L) Turbo DOHC 20V AEB, ATW,AW/M/V/W	1997-06	L4	16
1797cc (1.8L) DOHC 16V TRB CP/CN	2014-16	L4	17
1.8L SOHC 8V AP (Non-USA)	1989-93	L4	18
1871cc (1.9L) SOHC Carb. & F.I.	1972-77	L4	19
1896cc (1.9L) SOHC Diesel 8V Vin FG, AHU,ALH,BEW,BRM	1996-06	L4	20
1915cc (1.9L) OHV 8V Vin B DH	1983-85	H4	21
1967cc (2.0L) SOHC Diesel 8V Vin E BHW Turbo	2004-05	L4	22
1968cc (2.0L) DOHC 16V TRB Diesel TDI CR	2009-16	L4	23
1984cc (2.0L) SOHC Audi 3A	1988-90	L4	24
1984cc (2.0L) DOHC 16V TRB CN/CP	2014-16	L4	25
1984cc (2.0L) DOHC 16V Vin B,C,E, J,9A	1990-93	L4	26
1984cc (2.0L) SOHC 8V Vin A-C,L,R ABA, AEG, AVH, AZG	1993-06	L4	27
1984cc (2.0L) SOHC 16V BPG,BPY,BWT Turbo	2006-14	L4	28
1984cc (2.0L) SOHC 8V	2011-15	L4	29
1986cc (2.0L) SOHC Diesel & Turbo 10V Vin G,H,CN,DE	1979-85	L5	30
2109cc (2.1L) OHV Vin B MV	1986-92	H4	31
2144cc (2.2L) SOHC 10V KH, WD, WE, WK, WU, Turbo	1977-85	L5	32
2226cc (2.2L) SOHC & Turbo 10V Vin B-E, JT, KZ,MC	1983-91	L5	33
2226cc (2.2L) DOHC 20V Turbo Vin A, P, R, AAN	1992-96	L5	34
2309cc (2.3L) SOHC 10V Vin B, C, D, NF, NG	1987-92	L5	35
2309cc (2.3L) DOHC 20V Vin E, 7A	1990-91	L5	36
2459cc (2.5L) SOHC 10V Vin C, D, E, AAF, ACU	1993-95	L5	37
2461cc (2.5L) SOHC 10V (Non-USA)	1997-06	L5	38
2480cc (2.5L) DOHC 20V BG, BP, CBTA, CBUA	2005-14	L5	39
2671cc (2.7L) DOHC 30V Turbo APB, BEL Vin D, P	2000-05	V6	40
2771cc (2.8L) DOHC SOHC 12V Vin A-C, E,J-L, AAH, AFC	1992-98	V6	41
2771cc (2.8L) DOHC 30V Vin A, D, H, AHA,ATQ,AMX	1998-05	V6	42
2792cc (2.8L) SOHC 12V Vin D,E,F, AAA,AES, AFP,VR6	1992-02	V6	43
2792cc (2.8L) DOHC 24V AFP, AMV, AXK, BDF	2002-05	V6	44
2967cc (3.0L) DOHC 24V Diesel TDI	2009-16	V6	45
2976cc (3.0L) DOHC 30V Vin T, AVK BGN	2002-06	V6	46
2995cc (3.0L) DOHC 24V S/C CG/CT	2009-16	V6	47
3123cc (3.2L) DOHC 24V BHK, BKH, CALB	2004-09	V6	48
3189cc (3.2L) DOHC 24V BHE,BJS,BMX,BUB	2004-09	V6	49
3562cc (3.6L) DOHC 32V Vin E, PT	1990-91	V8	50
3597cc (3.6L) DOHC 24V BHK,BLV	2006-16	V6	51
3605cc (3.6L) SOHC 24V (Chrysler)	2011-13	V6	52
3697cc (3.7L) DOHC 32V AEW	1997-99	V8	53
3952cc (4.0L) SOHC 24V (Chrysler)	2009-10	V6	54

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3991cc (4.0L) DOHC 32V TRB CE/CR	2013-16	V8	55
4172cc (4.2L) DOHC 32V Vin L, W, ABH	1992-94	V8	56
4172cc (4.2L) DOHC 32V BAR, BHF, BNK, BVJ, CNDA	2004-16	V8	57
4172cc (4.2L) DOHC 40V AQF, AQQ, ARS	1997-06	V8	58
4921cc (5.0L) SOHC Diesel 20V BKF, BWF "TDI"	2005-08	V10	59
5204cc (5.2L) DOHC 40V BSM, BXA, CT	2007-16	V10	60
5998cc (6.0L) DOHC 48V BSB	2005-16	W12	61
6299cc (6.3L) DOHC 48V VVT	2013-16	W12	62

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1192cc 36-40 HP, 1285cc F</b>		<b>1954-66 H4</b>	<b>BORE - 3.031"/77mm</b>
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Guide	Both	1960-66	<b>30-6097</b>	2.625 OAL. 0.3155 I.D. 0.475 O.D.
	Both	1960-66	<b>31-8202</b>	2.400 OAL. 0.3149 I.D. 0.475 O.D. Mang. Bronze
Keeper	Both	1960-66	<b>34-619</b>	Heat Treated. 3 Groove.

<b>LINE 2</b>	<b>1395cc (1.4L) SOHC 16V TRB CNLA</b>		<b>2013-16 L4</b>	<b>BORE - 74.5mm/2.933</b>
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Lifter	Both	2013-15	<b>36-7092</b>	Hydraulic Lash Adjuster
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<b>LINE 3</b>	<b>1457cc (1.5L) SOHC FI 8V EH, FX</b>		<b>1978-80 L4</b>	<b>BORE - 79.5mm/3.13"</b>
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Valve	Exh	1978-80	<b>10-10006</b>	1.226 Head Dia.
	Int	1978-80	<b>10-10007</b>	1.337 Head Dia.
Valve Seat Insert	Exh	1978-80	<b>21-1312-50</b>	1.086T I.D. 1-5/16 O.D. 0.305 Depth
	Exh	1978-80	<b>21-1312-56</b>	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.
	Int	1978-80	<b>21-1437-50</b>	1.140T I.D. 1-7/16 O.D. 0.305 Depth
Guide	Both	1978-80	<b>30-7359</b>	1.435 OAL. 0.4765 O.D.
	Both	1978-80	<b>31-7359</b>	1.450 OAL. 0.4765 O.D. 0.3150 I.D. Mang. Bronze
Spring	Both	1978-80	<b>32-1106</b>	1.610 Free Length. Outer
	Both	1978-80	<b>32-1107</b>	1.323 Free Length. Inner
Valve Stem Seal	Both	1978-80	<b>38-3995-55</b>	Viton. Metal Clad.
Expansion Plug Kit		1978-80	<b>97-28</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 4</b>	<b>1471cc (1.5L) SOHC Gas (XR-XZ, FC, FG) &amp; Diesel (CK)</b>		<b>1973-80 L4</b>	<b>BORE - 76.5mm/3.01"</b>
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Valve	Exh	1973-76	<b>10-10006</b>	1.226 Head Dia. 0.3127 Stem
	Exh	1977-80	<b>10-10369S</b>	1.232 Head Dia. 0.3130 Stem
	Int	1973-76	<b>10-10007</b>	1.337 Head Dia. 0.3135 Stem
Valve Seat Insert	Exh	1974-80	<b>21-1312-50</b>	1.086T I.D. 1-5/16 O.D. 0.305 Depth
	Exh	1974-80	<b>21-1312-56</b>	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.
	Int	1974-80	<b>21-1437-50</b>	1.140T I.D. 1-7/16 O.D. 0.305 Depth
Guide	Both	1974-80	<b>30-7359</b>	1.435 OAL. 0.4765 O.D.
	Both	1973-80	<b>31-7359</b>	1.450 OAL. 0.4765 O.D. 0.3150 I.D. Mang. Bronze
Spring	Both	1974-80	<b>32-1106</b>	1.610 Free Length. Outer
	Both	1974-80	<b>32-1107</b>	1.323 Free Length. Inner
Valve Stem Seal	Both	1973-80	<b>38-3995-55</b>	Viton. Metal Clad. 0.313 Stem
Expansion Plug Kit		1973-80	<b>97-28</b>	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 5</b>	<b>1493cc (1.5L), 1594 (1.6L) H</b>		<b>1966-79 H4</b>	<b>BORE - 85.5/3.37"</b>
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Valve	Exh	1966-79	<b>10-09541</b>	1.258 Head Dia. 3 Groove
	Int	1966-79	<b>10-09540</b>	1.398 Head Dia. 3 Groove
Guide	Both	1966-79	<b>30-6097</b>	2.625 OAL. 0.3155 I.D. 0.475 O.D.
Keeper	Both	1966-79	<b>34-619</b>	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1966-79	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 6</b>	<b>1588cc (1.6L) SOHC Gas FI 8V EE EJ YG YH YK</b>			<b>1975-80 L4</b>	<b>BORE - 79.5mm/3.13"</b>
Valve	Exh	1975-80	10-10006	1.226 Head Dia.	
	Int	1975-80	10-10007	1.337 Head Dia.	
Valve Seat Insert	Exh	1975-80	21-1312-50	1.086T I.D. 1-5/16 O.D. 0.305 Depth	
	Exh	1975-80	21-1312-56	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.	
	Int	1975-80	21-1437-50	1.140T I.D. 1-7/16 O.D. 0.305 Depth	
Guide	Both	1975-80	30-7359	1.435 OAL. 0.4765 O.D.	
	Both	1975-80	31-7359	1.450 OAL. 0.4765 O.D. 0.3150 I.D. Mang. Bronze	
Spring	Both	1975-80	32-1106	1.610 Free Length. Outer	
	Both	1976-80	32-1107	1.323 Free Length. Inner	
Valve Stem Seal	Both	1975-80	38-3995-55	Viton. Metal Clad.	
Expansion Plug Kit		1975-80	97-28	Steel Kit. Brass Kit Avail. In Suffix B	
<b>LINE 7</b>	<b>1588cc (1.6L) SOHC Diesel T 8V Vin F-H CR CS CY JK</b>			<b>1981-92 L4</b>	<b>BORE - 75.2mm/3.13"</b>
Valve	Exh	1981-85	10-10369S	1.232 Head Dia. 1 Groove	
	Exh	1981-85	10-10370S	1.232 Head Dia. 3 Groove	
	Int	1981-85	10-10367	1.343 Head Dia. 3 Groove	
Valve Seat Insert	Exh	1981-92	21-1312-50	1.086T I.D. 1-5/16 O.D. 0.305 Depth	
	Exh	1981-92	21-1312-56	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.	
	Int	1981-92	21-1437-50	1.140T I.D. 1-7/16 O.D. 0.305 Depth	
Guide	Both	1981-92	30-7359	1.435 OAL. 0.4765 O.D.	
	Both	1981-85	31-7359	1.450 OAL. 0.4765 O.D. 0.3150 I.D. Mang. Bronze	
Spring	Both	1981-92	32-1106	1.6410 Free Length. Outer	
	Both	1981-92	32-1107	1.323 Free Length. Inner	
Keeper	Both	1981-92	34-619	Heat Treated. 3 Groove.	
Lifter	Both	1986-92	36-2236	Hydraulic Bucket	
Valve Stem Seal	Both	1981-92	38-3995-55	Viton. Metal Clad.	
<b>LINE 8</b>	<b>1598cc (1.6L) DOHC 16V (Non-USA)</b>			<b>2014-16 L4</b>	<b>BORE -</b>
Valve	Exh	2014-16	10-30111	Vento	
	Int	2014-16	10-30110	Vento	
Guide	Both	2014-16	30-3292		
<b>LINE 9</b>	<b>1599cc (1.6L) SOHC 8V ABU (Non-USA)</b>			<b>2000-11 L4</b>	<b>BORE - 76.5mm/3.01"</b>
Valve	Exh	2000-11	10-3191	1.102 Head Dia. 0.234 Stem. 3 Groove. Lupo, Gol, Polo, Cross Fox, Seat Cordoba, Ibiza	
	Int	2000-11	10-3190	1.358 Head Dia. 0.235 Stem. 3 Groove. Lupo, Gol, Polo, Cross Fox, Seat Cordoba, Ibiza	
<b>LINE 10</b>	<b>1600cc (1.6L) 8V (Non-USA) Air Cooled</b>			<b>1971-03 L4</b>	<b>BORE - 85.5mm/3.37"</b>
Valve	Exh	1971-76	10-09541	1.258 Head Dia. 3 Groove	
	Exh	1971-03	10-09561	1.177 Head Dia. '71-75 High Compression. '92-03. 3 Groove	
	Int	1971-74	10-09540	1.398 Head Dia. 3 Groove	
	Int	1975-03	10-09560	1.299 Head Dia. 3 Groove	
Guide	Both	1971-03	30-6097	2.625 OAL. 0.3155 I.D. 0.475 O.D.	
Keeper	Both	1971-03	34-619	Heat Treated. 3 Groove.	
Valve Stem Seal	Both	1971-03	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.	
<b>LINE 11</b>	<b>1679cc (1.7L) H</b>			<b>1971-74 L4</b>	<b>BORE - 90mm/3.543"</b>
Guide	Exh	1971-74	31-7473	2.400 OAL. 0.3536 I.D. 0.514 O.D. Mang. Bronze	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>1679cc (1.7L) H</b>		<b>1971-74 L4</b>	<b>BORE - 90mm/3.543"</b>
Guide	Int	1971-74	31-8206	2.400 OAL. 0.3149 I.D. 0.514 O.D. Mang. Bronze
Keeper	Both	1971-74	34-619	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1971-74	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
<b>LINE 12</b>	<b>1715cc (1.7L) SOHC 8V Vin A, B, EN, JF, WT</b>		<b>1978-87 L4</b>	<b>BORE - 79.5mm/3.13"</b>
Valve	Exh	1981-84	10-10006	1.226 Head Dia. 1 Groove
	Exh	1978-87	10-10364S	1.232 Head Dia. 3 Groove
	Int	1981-84	10-10007	1.337 Head Dia. 1 Groove
	Int	1978-87	10-10363	1.338 Head Dia. 3 Groove
Valve Seat Insert	Exh	1978-87	21-1312-50	1.086T I.D. 1-5/16 O.D. 0.305 Depth
	Exh	1978-87	21-1312-56	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.
	Int	1978-87	21-1437-50	1.140T I.D. 1-7/16 O.D. 0.305 Depth
Guide	Both	1978-87	30-7359	1.435 OAL. 0.4765 O.D. Exc. 1982-84 Exh.
	Exh	1982-84	30-7852	1.670 OAL. 0.3145 I.D. +2 O/S Avail.
Spring	Both	1981-84	32-1106	1.6410 Free Length. Outer
	Both	1981-84	32-1107	1.323 Free Length. Inner
Keeper	Both	1978-87	34-619	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1978-87	38-3995-55	Viton. Metal Clad.
<b>LINE 13</b>	<b>1760 (1.8L) Gas Carb ZT, ZY</b>		<b>1970-73 L4</b>	<b>BORE - 81.5mm/3.21"</b>
Valve Seat Insert	Exh	1970-73	21-1437-59	1.180T I.D. 1-7/16 O.D. 0.305 Depth.
	Int	1970-73	21-1562-65	1.300T I.D. 1-9/16 O.D. 0.315 Depth
<b>LINE 14</b>	<b>1780cc (1.8L) SOHC 8V Vin A-C,K,2H,ABG,GX,HT,JH,JN</b>		<b>1982-97 L4</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1986-87	10-10352S	1.311 Head Dia. Stellite Faced RD Engine
	Exh	1984-96	10-10356S	1.305 Head Dia. Engines: 2H, ACC, GX, HT, JH, JN, MZ, PF, RD, RV
	Int	1985-92	10-10158S	1.555 Head Dia. Engines PG, 2H, ABG, PF
	Int	1984-93	10-10350S	1.579 Head Dia. Engines 2H, HT, JH, MG, PF, PG, RD, RV
	Int	1985-88	10-10351	1.575 Head Dia. JH Engine
	Int	1984-96	10-10358S	1.500 Head Dia. Engines ACC, GX, RD, JN, UM, RV
Valve Seat Insert	Exh	1983-96	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
	Int	1983-96	21-1625-50	1.340T I.D. 1-5/8 O.D. 0.307 Depth
Guide	Both	1983-96	30-7359	1.435 OAL. 0.4765 O.D.
	Both	1984-84	30-7713	1.810 OAL. +2 O/S Avail.
	Both	1983-84	30-7852	1.670 OAL. +2 O/S Avail.
Spring	Both	1983-93	32-1106	1.641 Free Length. Outer
	Both	1983-93	32-1107	1.323 Free Length. Inner
Keeper	Both	1983-96	34-619	Heat Treated. 3 Groove.
Lifter	Both	1983-96	36-2251	Hydraulic Bucket
Valve Stem Seal	Both	1983-96	38-3995-55	Viton. Metal Clad. Exc. PL Eng.
Expansion Plug Kit		1982-97	97-130	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 15</b>	<b>1780cc (1.8L) DOHC 16V PL Vin B, C</b>		<b>1986-89 L4</b>	<b>BORE - 81mm/3.189"</b>
Valve	Int	1986-89	10-10353S	1.264 Head Dia.
Valve Seat Insert	Exh	1986-89	21-1125-54	0.900 I.D. 1-1/8 O.D. 0.325 Depth
	Int	1986-89	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.
Guide	Both	1986-89	30-7359	1.435 OAL. 0.3155 I.D. 0.4765 O.D.
	Both	1987-89	30-8139	1.488 OAL 0.2765 I.D. 0.4763 O.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>1780cc (1.8L) DOHC 16V PL Vin B, C</b>		<b>1986-89 L4</b>	<b>BORE - 81mm/3.189"</b>
Lifter	Both	1987-89	36-2236	Hydraulic Bucket
Valve Stem Seal	Both	1986-89	38-978-55	Viton. Metal Clad.
Expansion Plug Kit		1986-89	97-130	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 16</b>	<b>1781cc (1.8L) Turbo DOHC 20V AEB, ATW,AW/M/V/W</b>		<b>1997-06 L4</b>	<b>BORE - 81.0mm/3.19"</b>
Valve	Exh	1997-06	10-10803S	1.177 Head Dia. 0.157 Tip to Groove
	Exh	1997-06	10-10805S	1.177 Head Dia. 0.222 Tip to Groove
	Int	1997-06	10-10804S	1.058 Head Dia. 0.235 Stem
Valve Seat Insert	Exh	1997-06	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth. May Need To Be Machined 0.020 - 0.030"
	Int	1997-06	21-1125-53	0.890T I.D. 1-1/8 OD 0.2370 Depth. Seat May Need To Be Machined 0.020 - 0.030".
Guide	Both	1997-06	31-03419	Manganese Bronze 1.415 OAL
Spring	Exh	1997-06	32-04036	1.725 Free Length
	Int	1997-06	32-04035	1.615 Free Length
Keeper	Both	1997-06	34-5021	3 Round Beads. 0.234 Stem
Lifter	Exh	1997-06	36-7075	Hydraulic Bucket
	Int	1997-06	36-7076	Hydraulic Bucket
Valve Stem Seal	Both	1997-06	38-9675-45	Viton. Metal Clad.
<b>LINE 17</b>	<b>1797cc (1.8L) DOHC 16V TRB CP/CN</b>		<b>2014-16 L4</b>	<b>BORE - 82.5mm/3.24"</b>
Valve	Exh	2014-15	10-3097	1.102 Head Dia. 3 Groove.
Guide	Both	2014-15	31-03419	Manganese Bronze 1.415 OAL
Keeper	Both	2014-16	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2014-15	36-7092	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2014-16	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 18</b>	<b>1.8L SOHC 8V AP (Non-USA)</b>		<b>1989-93 L4</b>	<b>BORE - 81mm/3.189"</b>
Valve	Exh	1989-93	10-09599	1.299 Head Dia. 3 Groove. Derby, Golf, Jetta GL
	Int	1989-93	10-09658	1.496 Head Dia. 3.885 OAL.
	Int	1989-93	10-10358S	1.494 Head Dia. 3.581 OAL
<b>LINE 19</b>	<b>1871cc (1.9L) SOHC Carb. &amp; F.I.</b>		<b>1972-77 L4</b>	<b>BORE - 84mm/3.307"</b>
Valve Seat Insert	Exh	1972-77	21-1437-59	1.180T I.D. 1-7/16 O.D. 0.305 Depth.
	Int	1972-77	21-1562-65	1.300T I.D. 1-9/16 O.D. 0.315 Depth
<b>LINE 20</b>	<b>1896cc (1.9L) SOHC Diesel 8V Vin FG, AHU,ALH,BEW,BRM</b>		<b>1996-06 L4</b>	<b>BORE - 79.5mm/3.13"</b>
Valve	Exh	1996-06	10-10732S	1.238 Head Dia. 7mm Stem. 3.813 Length
	Exh	2004-06	10-3079	1.237 Head Dia. 3.532 OAL
	Int	1996-06	10-10731	1.415 Head Dia. 7mm Stem 3.813 Length
Guide	Both	1998-06	30-8139	1.488 OAL
	Both	1996-06	31-8139	1.495 OAL w/ 7 mm Stem. Manganese Bronze
Spring	Both	1996-06	32-04035	1.615 Free Length
Keeper	Both	1996-06	34-5031	3 Beads. 0.274 Stem
Valve Stem Seal	Both	1998-06	38-978-55	Viton. Metal Clad
<b>LINE 21</b>	<b>1915cc (1.9L) OHV 8V Vin B DH</b>		<b>1983-85 H4</b>	<b>BORE - 94mm/3.70"</b>
Valve Seat Insert	Exh	1983-85	21-1437-61	1.162 I.D. 1-7/16 O.D. 0.310 Depth
	Int	1983-85	21-1625-50	1.340T I.D. 1-5/8 O.D. 0.307 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 21</b>	<b>1915cc (1.9L) OHV 8V Vin B DH</b>			<b>1983-85 H4</b>	<b>BORE - 94mm/3.70"</b>
Guide	Int	1983-85	30-6097	2.625 OAL	
Keeper	Both	1983-85	34-619	Heat Treated. 3 Groove.	
<b>LINE 22</b>	<b>1967cc (2.0L) SOHC Diesel 8V Vin E BHW Turbo</b>			<b>2004-05 L4</b>	<b>BORE - 81mm/3.19"</b>
Valve Stem Seal	Both	2004-05	38-978-55	Viton. Metal Clad.	
<b>LINE 23</b>	<b>1968cc (2.0L) DOHC 16V TRB Diesel TDI CR</b>			<b>2009-16 L4</b>	<b>BORE - 81mm/3.19"</b>
Guide	Both	2009-15	31-03419	Manganese Bronze 1.415 OAL	
Keeper	Both	2009-15	34-5021	3 Round Beads. 0.234 Stem	
Valve Stem Seal	Both	2009-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 24</b>	<b>1984cc (2.0L) SOHC Audi 3A</b>			<b>1988-90 L4</b>	<b>BORE - 82.5mm/3.248"</b>
Valve	Exh	1988-90	10-10356S	1.305 Head Dia. Stellite	
	Int	1988-90	10-10158S	1.555 Head Dia.	
Valve Seat Insert	Exh	1988-90	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
	Int	1988-90	21-1625-50	1.340T I.D. 1-5/8 O.D. 0.307 Depth	
Guide	Both	1988-90	30-7359	1.435 OAL. 0.4765 O.D.	
Keeper	Exh	1988-90	34-619	Heat Treated. 3 Groove.	
Valve Stem Seal	Both	1988-90	38-3995-55	Viton. Metal Clad.	
<b>LINE 25</b>	<b>1984cc (2.0L) DOHC 16V TRB CN/CP</b>			<b>2014-16 L4</b>	<b>BORE - 82.5mm/3.248"</b>
Valve	Exh	2014-15	10-3095	1.102 Head Dia. 0.235 Stem.	
	Int	2014-15	10-3094	1.331 Head Dia. 0.235 Stem.	
Guide	Both	2014-16	31-03419	Manganese Bronze 1.415 OAL	
Keeper	Both	2014-16	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2014-15	36-7092	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2014-16	38-9675-45	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 26</b>	<b>1984cc (2.0L) DOHC 16V Vin B,C,E, J,9A</b>			<b>1990-93 L4</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	1990-93	10-10355S	1.102 Head Dia. Vin J To Chassis # 31P16001	
	Int	1990-93	10-10353S	1.264 Head Dia. To Chassis # 31P16001	
Valve Seat Insert	Exh	1990-93	21-1125-54	0.900 I.D. 1-1/8 O.D. 0.325 Depth	
	Int	1990-93	21-1312-64	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
Guide	Both	1990-93	30-8139	1.488 OAL	
	Both	1990-93	30-8558	1.435 OAL	
Lifter	Both	1990-93	36-2236	Hydraulic Bucket	
Valve Stem Seal	Both	1990-93	38-978-55	Viton. Metal Clad.	
<b>LINE 27</b>	<b>1984cc (2.0L) SOHC 8V Vin A-C,L,R ABA, AEG, AVH, AZG</b>			<b>1993-06 L4</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	1993-06	10-10734S	1.295 Head Dia. 0.108 Tip To Groove	
	Int	1993-06	10-10733	1.555 Head Dia. 0.135 Tip To Groove	
Guide	Both	1993-06	30-8558	1.435 OAL	
Keeper	Both	1993-06	34-5031	3 Beads. 0.274 Stem	
Lifter	Both	1993-06	36-2236	Hydraulic Bucket.	
Valve Stem Seal	Both	1993-06	38-978-55	Viton. Metal Clad.	
<b>LINE 28</b>	<b>1984cc (2.0L) SOHC 16V BPG,BPY,BWT Turbo</b>			<b>2006-14 L4</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	2006-14	10-3095	1.102 Head Dia. 0.235 Stem.	
	Int	2006-14	10-3094	1.331 Head Dia. 0.235 Stem.	



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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 28</b>	<b>1984cc (2.0L) SOHC 16V BPG,BPY,BWT Turbo</b>			<b>2006-14 L4</b>	<b>BORE - 82.5mm/3.25"</b>
Guide	Both	2006-14	<b>31-03419</b>	Manganese Bronze 1.415 OAL. 0.236 I.D.	
	Exh	2006-14	<b>31-2075</b>	1.540 OAL. 0.236 I.D. 0.435 O.D.	
	Int	2006-14	<b>31-2074</b>	1.475 OAL. 0.236 I.D. 0.435 O.D.	
Keeper	Both	2006-14	<b>34-5021</b>	3 Round Beads. 0.234 Stem	
Lifter	Both	2006-14	<b>36-7092</b>	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2006-14	<b>38-9675-45</b>	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 29</b>	<b>1984cc (2.0L) SOHC 8V</b>			<b>2011-15 L4</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	2011-13	<b>10-10734S</b>	1.295 Head Dia. 0.108 Tip To Groove	
	Int	2011-13	<b>10-10733</b>	1.555 Head Dia. 0.275 Stem	
Guide	Both	2011-13	<b>30-8139</b>	1.488 OAL	
Keeper	Both	2011-15	<b>34-5031</b>	3 Beads. 0.274 Stem	
Lifter	Both	2011-13	<b>36-2295</b>	Hydraulic Bucket.	
Valve Stem Seal	Both	2011-15	<b>38-978-55</b>	Viton. Metal Clad.	
<b>LINE 30</b>	<b>1986cc (2.0L) SOHC Diesel &amp; Turbo 10V Vin G,H,CN,DE</b>			<b>1979-85 L5</b>	<b>BORE - 76.5mm/3.01"</b>
Valve	Exh	1979-81	<b>10-10369S</b>	1.232 Head Dia. 1 Groove	
	Exh	1979-84	<b>10-10370S</b>	1.232 Head Dia. 3 Groove	
Valve Seat Insert	Exh	1979-84	<b>21-1312-50</b>	1.086T I.D. 1-5/16 O.D. 0.305 Depth	
	Exh	1979-84	<b>21-1312-56</b>	1.086 I.D. 1-5/16 O.D. 0.305 Depth.	
Spring	Int	1979-84	<b>21-1500-62</b>	1.220T I.D. 1-1/2 O.D. 0.310 Depth.	
	Both	1979-84	<b>32-1106</b>	1.641 Free Length. Outer	
Keeper	Both	1979-84	<b>32-1107</b>	1.323 Free Length. Inner	
	Both	1979-84	<b>34-619</b>	Heat Treated. 3 Groove.	
Valve Stem Seal	Both	1979-84	<b>38-3995-55</b>	Viton. Metal Clad.	
<b>LINE 31</b>	<b>2109cc (2.1L) OHV Vin B MV</b>			<b>1986-92 H4</b>	<b>BORE - 94mm/3.70"</b>
Valve Seat Insert	Exh	1986-91	<b>21-1437-61</b>	1.162 I.D. 1-7/16 O.D. 0.310 Depth	
	Int	1986-91	<b>21-1625-50</b>	1.340T I.D. 1-5/8 O.D. 0.307 Depth	
Guide	Exh	1991-92	<b>30-7473</b>	2.400 OAL	
	Int	1991-92	<b>30-6097</b>	2.625 OAL. S/N 2109CC Cut To Length	
	Int	1991-92	<b>30-7471</b>	2.531 OAL. S/N 1679CC - 1795CC	
Keeper	Both	1986-92	<b>31-7473</b>	2.400 OAL. 0.3536 I.D. 0.514 O.D. Mang. Bronze	
	Both	1986-92	<b>31-8202</b>	2.400 OAL. Bronze. 0.3419 I.D. 0.4755 O.D.	
Valve Stem Seal	Both	1986-91	<b>34-619</b>	Heat Treated. 3 Groove.	
<b>LINE 32</b>	<b>2144cc (2.2L) SOHC 10V KH, WD, WE, WK, WU, Turbo</b>			<b>1977-85 L5</b>	<b>BORE - 79.5mm/3.13"</b>
Valve	Exh	1978-80	<b>10-10006</b>	1.226 Head Dia. 1 Groove	
	Exh	1983-85	<b>10-10356S</b>	1.305 Head Dia. 3.591 OAL	
	Int	1983-85	<b>10-10358S</b>	1.500 Head Dia.	
Valve Seat Insert	Exh	1977-85	<b>21-1312-50</b>	1.086T I.D. 1-5/16 O.D. 0.305 Depth	
	Exh	1977-85	<b>21-1312-56</b>	1.086 I.D. 1-5/16 O.D. 0.305 Depth. Straight I.D.	
Spring	Both	1977-85	<b>32-1106</b>	1.610 Free Length. Outer	
	Both	1977-85	<b>32-1107</b>	1.323 Free Length. Inner	
Keeper	Both	1983-85	<b>34-619</b>	Heat Treated. 3 Groove.	
Valve Stem Seal	Both	1977-85	<b>38-3995-55</b>	Viton. Metal Clad.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 33</b>	<b>2226cc (2.2L) SOHC &amp; Turbo 10V Vin B-E, JT, KZ,MC</b>			<b>1983-91 L5</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1984-91	<b>10-10356S</b>	1.305 Head Dia.	
	Int	1983-91	<b>10-10358S</b>	1.494 Head Dia.	
Valve Seat Insert	Exh	1984-91	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
	Int	1984-91	<b>21-1625-50</b>	1.340T I.D. 1-5/8 O.D. 0.307 Depth	
Guide	Exh	1984-91	<b>30-7713</b>	1.810 OAL. +2 O/S Avail.	
	Exh	1984-91	<b>30-7852</b>	1.670 OAL.	
	Int	1984-91	<b>30-7359</b>	1.435 OAL. 0.4765 O.D.	
Keeper	Both	1984-91	<b>34-619</b>	Heat Treated. 3 Groove.	
Lifter	Both	1984-91	<b>36-2251</b>	Hydraulic Bucket	
Valve Stem Seal	Both	1984-91	<b>38-3995-55</b>	Viton. Metal Clad.	
<b>LINE 34</b>	<b>2226cc (2.2L) DOHC 20V Turbo Vin A, P, R, AAN</b>			<b>1992-96 L5</b>	<b>BORE - 81mm/3.19"</b>
Valve	Int	1992-96	<b>10-10353S</b>	1.264 Head Dia.	
Valve Seat Insert	Exh	1992-96	<b>21-1125-54</b>	0.900 I.D. 1-1/8 O.D. 0.325 Depth	
	Int	1992-96	<b>21-1312-64</b>	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
Guide	Both	1992-96	<b>30-7359</b>	1.435 OAL. 0.4765 O.D. 31- Prefix Bronze Avail.	
Lifter	Both	1992-96	<b>36-2236</b>	Hydraulic Bucket. OEM# 017089102, 017105951	
	Both	1992-96	<b>36-2251</b>	Hydraulic Bucket. OEM# 034109309AD	
Valve Stem Seal	Both	1992-96	<b>38-978-55</b>	Viton. Metal Clad.	
<b>LINE 35</b>	<b>2309cc (2.3L) SOHC 10V Vin B, C, D, NF, NG</b>			<b>1987-92 L5</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	1987-92	<b>10-10356S</b>	1.305 Head Dia.	
	Int	1988-92	<b>10-10158S</b>	1.555 Head Dia. NG Engine	
	Int	1987-87	<b>10-10350S</b>	1.579 Head Dia. NF & NG Engines	
Valve Seat Insert	Exh	1987-92	<b>21-1375-55</b>	1.120 I.D. 1-3/8 O.D. 0.325 Depth.	
	Int	1987-92	<b>21-1625-50</b>	1.340T I.D. 1-5/8 O.D. 0.307 Depth. w/ 1.579 Valve Head Dia.	
Guide	Both	1987-92	<b>30-7359</b>	1.435 OAL. 0.4765 O.D.	
Keeper	Both	1987-92	<b>34-619</b>	Heat Treated. 3 Groove.	
Lifter	Both	1987-92	<b>36-2251</b>	Hydraulic Bucket	
Valve Stem Seal	Both	1987-92	<b>38-3995-55</b>	Viton. Metal Clad.	
<b>LINE 36</b>	<b>2309cc (2.3L) DOHC 20V Vin E, 7A</b>			<b>1990-91 L5</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	1990-91	<b>10-10355S</b>	1.102 Head Dia. 7A Eng. Only	
	Int	1990-91	<b>10-10353S</b>	1.264 Head Dia.	
Valve Seat Insert	Exh	1990-91	<b>21-1125-54</b>	0.900 I.D. 1-1/8 O.D. 0.325 Depth	
	Int	1990-91	<b>21-1312-64</b>	1.045 I.D. 1-5/16 O.D. 0.316 Depth.	
Guide	Both	1990-91	<b>30-8139</b>	(Printed 30-7359)	
Lifter	Both	1990-91	<b>36-2251</b>	Hydraulic Bucket	
Valve Stem Seal	Both	1990-91	<b>38-978-55</b>	Viton. Metal Clad.	
<b>LINE 37</b>	<b>2459cc (2.5L) SOHC 10V Vin C, D, E, AAF, ACU</b>			<b>1993-95 L5</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1993-95	<b>10-10356S</b>	1.305 Head Dia.	
	Int	1993-95	<b>10-10158S</b>	1.555 Head Dia.	
Guide	Both	1993-95	<b>30-7359</b>	1.435 OAL. 0.4765 O.D.	
	Both	1993-95	<b>32-1106</b>	1.610 Free Length. Outer	
	Both	1993-95	<b>32-1107</b>	1.323 Free Length. Inner	
Keeper	Both	1993-95	<b>34-619</b>	Heat Treated. 3 Groove.	
Lifter	Both	1993-95	<b>36-2236</b>	Hydraulic Bucket	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 37</b>	<b>2459cc (2.5L) SOHC 10V Vin C, D, E, AAF, ACU</b>		<b>1993-95 L5</b>	<b>BORE - 81mm/3.19"</b>
Valve Stem Seal	Both	1993-95	38-3995-55	Viton. Metal Clad.
<b>LINE 38</b>	<b>2461cc (2.5L) SOHC 10V (Non-USA)</b>		<b>1997-06 L5</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1997-06	10-10356S	1.305 Head Dia. Engine Code AVT Eurovan/Transporter
	Exh	1998-03	10-3077	1.240 Head Dia. Engine Code AJT/AXG Eurovan/Transporter
	Exh	1997-03	10-3079	1.234 Head Dia. Engine Code APL Eurovan/Transporter
	Int	1997-06	10-10158S	1.555 Head Dia. Engine Code AVT Eurovan/Transporter
	Int	1998-03	10-3076	1.417 Head Dia. Engine Code AJT/AXG Eurovan/Transporter
	Int	1997-03	10-3078	1.417 Head Dia. Engine Code APL Eurovan/Transporter
<b>LINE 39</b>	<b>2480cc (2.5L) DOHC 20V BG, BP, CBTA, CBUA</b>		<b>2005-14 L5</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	2012-13	10-3095	1.102 Head Dia. 0.235 Stem.
	Exh	2005-14	10-3097	1.102 Head Dia. 3 Groove. (Bora Non-USA)
	Int	2012-13	10-3094	1.331 Head Dia. 0.235 Stem.
	Int	2005-14	10-3096	1.273 Head Dia. 3 Groove. (Bora Non-USA)
Guide	Both	2005-14	30-3252	1.415 OAL
	Both	2005-14	31-03419	Manganese Bronze 1.415 OAL
Keeper	Both	2005-14	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2005-14	36-7092	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2005-14	38-9675-45	Viton. Metal Clad.
<b>LINE 40</b>	<b>2671cc (2.7L) DOHC 30V Turbo APB, BEL Vin D, P</b>		<b>2000-05 V6</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	2000-05	10-10803S	1.177 Head Dia. 0.157 Tip to Groove
	Exh	2000-05	10-10805S	1.177 Head Dia. 0.222 Tip to Groove
	Int	2000-05	10-10804S	1.058 Head Dia.
Valve Seat Insert	Exh	2000-05	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth. May Need To Be Machined 0.020 - 0.030"
	Int	2000-05	21-1125-53	0.890T I.D. 1-1/8 OD 0.2370 Depth. Seat May Need To Be Machined 0.020 - 0.030".
Guide	Both	2000-05	31-03419	Manganese Bronze 1.415 OAL
Spring	Exh	2000-05	32-04036	1.725 Free Length
	Int	2000-05	32-04035	1.615 Free Length
Keeper	Both	2000-05	34-5021	3 Round Beads. 0.234 Stem
Lifter	Exh	2000-05	36-7075	Hydraulic Bucket
	Int	2000-05	36-7076	1.415 OAL. Hydraulic Bucket
Valve Stem Seal	Both	2000-05	38-9675-45	Viton. Metal Clad.
<b>LINE 41</b>	<b>2771cc (2.8L) DOHC SOHC 12V Vin A-C, E,J-L, AAH, AFC</b>		<b>1992-98 V6</b>	<b>BORE - 82.5mm/3.19"</b>
Valve	Exh	1992-95	10-10356S	1.305 Head Dia.
	Exh	1995-98	10-10734S	1.295 Head Dia. 0.108 Tip To Groove
	Int	1992-95	10-10158S	1.555 Head Dia. 0.315 Stem
	Int	1995-98	10-10733	1.555 Head Dia. 0.275 Stem
Valve Seat Insert	Exh	1992-95	21-1375-55	1.120 I.D. 1-3/8 O.D. 0.325 Depth.
	Int	1992-95	21-1625-50	1.340T I.D. 1-5/8 O.D. 0.307 Depth
Guide	Both	1992-95	30-7359	1.435 OAL. 0.4765 O.D.
	Both	1995-98	30-8558	1.435 OAL
Keeper	Both	1995-98	34-5031	3 Beads. 0.274 Stem
	Both	1992-95	34-619	Heat Treated. 3 Groove. 0.315 Stem

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 41</b>	<b>2771cc (2.8L) DOHC SOHC 12V Vin A-C, E,J-L, AAH, AFC</b>			<b>1992-98 V6 BORE - 82.5mm/3.19"</b>
Lifter	Both	1992-95	36-2236	Hydraulic Bucket
	Both	1998-98	36-2295	Hydraulic Bucket. AFC
Valve Stem Seal	Both	1992-98	38-3995-55	Viton. Metal Clad.
<b>LINE 42</b>	<b>2771cc (2.8L) DOHC 30V Vin A, D, H, AHA,ATQ,AMX</b>			<b>1998-05 V6 BORE - 82.5mm/3.27"</b>
Valve	Exh	1998-05	10-10803S	1.177 Head Dia. 0.157 Tip to Groove
	Exh	1998-05	10-10805S	1.177 Head Dia. 0.222 Tip to Groove
	Int	1998-05	10-10804S	1.059 Head Dia.
Valve Seat Insert	Exh	1998-05	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth. May Need To Be Machined 0.020 - 0.030"
	Int	1998-05	21-1125-53	0.890T I.D. 1-1/8 OD 0.2370 Depth. Seat May Need To Be Machined 0.020 - 0.030".
Guide	Both	1998-05	31-03419	Manganese Bronze 1.415 OAL
Spring	Exh	1998-05	32-04036	1.725 Free Length
	Int	1998-05	32-04035	1.615 Free Length
Keeper	Both	1998-05	34-5021	3 Round Beads. 0.234 Stem
Lifter	Exh	1998-05	36-7075	Hydraulic Bucket
	Int	1998-05	36-7076	Hydraulic Bucket
Valve Stem Seal	Both	1998-05	38-9675-45	Viton. Metal Clad.
<b>LINE 43</b>	<b>2792cc (2.8L) SOHC 12V Vin D,E,F, AAA,AES, AFP,VR6</b>			<b>1992-02 V6 BORE - 81mm/3.19"</b>
Valve	Exh	1992-02	10-10557S	1.346 Head Dia. 0.274 Stem
	Int	1992-02	10-10556	1.535 Head Dia. 0.274 Stem
Guide	Both	1992-02	30-8139	1.483 OAL
	Both	1992-02	31-8139	1.495 OAL
Keeper	Both	1992-02	34-5031	3 Beads. 0.274 Stem
Lifter	Both	1992-02	36-2236	Hydraulic Bucket.
Valve Stem Seal	Both	1992-02	38-978-55	Viton. Metal Clad.
<b>LINE 44</b>	<b>2792cc (2.8L) DOHC 24V AFP, AMV, AXK, BDF</b>			<b>2002-05 V6 BORE - 81mm/3.19"</b>
Valve	Exh	2002-05	10-13311	1.181 Head Dia. 0.235 Stem. 5.367 OAL. 2 Lengths Possible. Watch OAL.
	Exh	2002-05	10-13313	1.181 Head Dia. 0.235 Stem. 4.024 OAL. 2 Lengths Possible. Watch OAL.
	Int	2002-05	10-13310	1.309 Head Dia. 0.235 Stem. 5.374 OAL. 2 Lengths Possible. Watch OAL.
	Int	2002-05	10-13312	1.309 Head Dia. 0.235 Stem. 4.040 OAL. 2 Lengths Possible. Watch OAL.
Guide	Both	2002-05	30-3253	
Keeper	Both	2002-05	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2002-05	36-7093	Hydraulic.
Valve Stem Seal	Both	2002-05	38-9675-45	Viton. Metal Clad.
<b>LINE 45</b>	<b>2967cc (3.0L) DOHC 24V Diesel TDI</b>			<b>2009-16 V6 BORE - 83mm/3.27"</b>
Guide	Both	2009-15	31-03419	Manganese Bronze 1.415 OAL
Keeper	Both	2009-15	34-5021	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	2009-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 46</b>	<b>2976cc (3.0L) DOHC 30V Vin T, AVK BGN</b>			<b>2002-06 V6 BORE - 82.5mm/3.25"</b>
Valve	Exh	2002-06	10-10803S	1.177 Head Dia. 0.157 Tip to Groove

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 46</b>	<b>2976cc (3.0L) DOHC 30V Vin T, AVK BGN</b>		<b>2002-06 V6</b>	<b>BORE - 82.5mm/3.25"</b>
Valve	Exh	2002-06	10-10805S	1.177 Head Dia. 0.222 Tip to Groove
	Int	2002-06	10-10804S	1.059 Head Dia.
Valve Seat Insert	Exh	2002-06	21-1250-54	1.010T I.D. 1-1/4 O.D. 0.257 Depth. May Need To Be Machined 0.020 - 0.030"
	Int	2002-06	21-1125-53	0.890T I.D. 1-1/8 OD 0.2370 Depth. Seat May Need To Be Machined 0.020 - 0.030".
Guide	Both	2002-06	31-03419	Manganese Bronze 1.415 OAL
Spring	Exh	2002-06	32-04036	1.725 Free Length
	Int	2002-06	32-04035	1.615 Free Length
Keeper	Both	2002-06	34-5021	3 Round Beads. 0.234 Stem
Lifter	Exh	2002-06	36-7075	Hydraulic Bucket
	Int	2002-06	36-7076	Hydraulic Bucket
Valve Stem Seal	Both	2002-06	38-9675-45	Viton. Metal Clad.
<b>LINE 47</b>	<b>2995cc (3.0L) DOHC 24V S/C CG/CT</b>		<b>2009-16 V6</b>	<b>BORE - 84.5mm/3.33"</b>
Valve	Exh	2009-15	10-3095	1.102 Head Dia. 0.235 Stem.
	Exh	2013-15	10-3097	1.102 Head Dia. 3 Groove.
	Int	2009-15	10-13314	1.333 Head Dia.
Guide	Both	2009-15	31-03419	Manganese Bronze 1.415 OAL. 0.236 I.D.
	Exh	2009-15	31-2075	1.540 OAL. 0.236 I.D. 0.435 O.D.
Keeper	Both	2009-15	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2009-15	36-7092	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2009-15	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 48</b>	<b>3123cc (3.2L) DOHC 24V BHK, BKH, CALB</b>		<b>2004-09 V6</b>	<b>BORE - 84mm/3.31"</b>
Valve	Both	2004-08	10-3097	1.102 Head Dia. 3 Groove.
Guide	Both	2004-08	30-3252	1.415 OAL.
	Both	2004-09	31-03419	Manganese Bronze 1.415 OAL
Keeper	Both	2004-09	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2004-09	36-7092	Hydraulic Lash Adjuster
Valve Stem Seal	Both	2004-09	38-9675-45	Viton. Metal Clad.
<b>LINE 49</b>	<b>3189cc (3.2L) DOHC 24V BHE,BJS,BMX,BUB</b>		<b>2004-09 V6</b>	<b>BORE - 84mm/3.31"</b>
Valve	Exh	2004-08	10-13311	1.181 Head Dia. 0.235 Stem. 5.367 OAL. 2 Lengths Possible. Watch OAL.
	Exh	2004-08	10-13313	1.181 Head Dia. 0.235 Stem. 4.024 OAL. 2 Lengths Possible. Watch OAL.
	Int	2004-08	10-13310	1.309 Head Dia. 0.235 Stem. 5.374 OAL. 2 Lengths Possible. Watch OAL.
	Int	2004-08	10-13312	1.309 Head Dia. 0.235 Stem. 4.040 OAL. 2 Lengths Possible. Watch OAL.
Guide	Both	2004-08	30-3253	
	Both	2004-09	31-03419	Manganese Bronze 1.415 OAL
Keeper	Both	2004-09	34-5021	3 Round Beads. 0.234 Stem
Lifter	Both	2005-08	36-7093	Hydraulic.
Valve Stem Seal	Both	2004-09	38-9675-45	Viton. Metal Clad. 0.234 Stem.
<b>LINE 50</b>	<b>3562cc (3.6L) DOHC 32V Vin E, PT</b>		<b>1990-91 V8</b>	<b>BORE - 81mm/3.19</b>
Valve	Int	1990-91	10-10353S	1.264 Head Dia.
Valve Stem Seal	Both	1990-91	38-978-55	Viton. Metal Clad.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 51</b>	<b>3597cc (3.6L) DOHC 24V BHK,BLV</b>			<b>2006-16 V6</b>	<b>BORE - 89mm/3.50"</b>
Valve	Exh	2006-15	10-13311	1.181 Head Dia. 0.235 Stem. 5.367 OAL. 2 Lengths Possible. Watch OAL.	
	Exh	2006-15	10-13313	1.189 Head Dia. 0.235 Stem. 4.024 OAL. 2 Lengths Possible. Watch OAL.	
	Int	2006-15	10-13310	1.309 Head Dia. 0.235 Stem. 5.374 OAL. 2 Lengths Possible. Watch OAL.	
	Int	2006-15	10-13312	1.307 Head Dia. 0.235 Stem. 4.040 OAL. 2 Lengths Possible. Watch OAL.	
Guide	Both	2006-15	31-03419	Manganese Bronze 1.415 OAL	
Keeper	Both	2006-15	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	2006-15	36-7093	Hydraulic.	
Valve Stem Seal	Both	2006-15	38-9675-45	Viton. Metal Clad. 0.234 Stem	
<b>LINE 52</b>	<b>3605cc (3.6L) SOHC 24V (Chrysler)</b>			<b>2011-13 V6</b>	<b>BORE - 96mm/3.78"</b>
Valve	Exh	2011-13	10-13264	1.181 Head Dia. 0.2347 Stem	
	Int	2011-13	10-13263	1.535 Head Dia. 0.235 Stem	
Keeper	Both	2011-13	34-03722	3 Groove. 0.235 Stem	
Lifter	Both	2011-13	36-7561	Hydraulic Lash Adjuster	
Valve Stem Seal	Both	2011-13	38-9675-45	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 53</b>	<b>3697cc (3.7L) DOHC 32V AEW</b>			<b>1997-99 V8</b>	<b>BORE - 84.5mm/3.33"</b>
Valve	Exh	1997-99	10-3183	1.178 Head Dia. 6mm Stem	
	In	1997-99	10-3182	1.06 Head Dia. 6mm Stem	
<b>LINE 54</b>	<b>3952cc (4.0L) SOHC 24V (Chrysler)</b>			<b>2009-10 V6</b>	<b>BORE - 96mm/3.78"</b>
Valve	Exh	2009-10	10-1713	1.142 Head Dia. 0.272 Stem	
	Int	2009-10	10-1901	1.437 Head Dia. 0.273 Stem	
Guide	Exh	2009-10	30-8547	2.160 OAL. 0.4545 O.D. 0.276 I.D.	
	Int	2009-10	30-8548	2.040 OAL. 0.4545 O.D. 0.275 I.D.	
Keeper	Both	2009-10	34-06513	3 Round Grooves	
Valve Stem Seal	Both	2009-10	38-20-45	Viton. Top Hat	
<b>LINE 55</b>	<b>3991cc (4.0L) DOHC 32V TRB CE/CR</b>			<b>2013-16 V8</b>	<b>BORE - 84.5mm/3.33</b>
Valve	Int	2013-14	10-3094	1.331 Head Dia. 0.235 Stem.	
Guide	Both	2013-14	31-03419	Manganese Bronze 1.415 OAL	
Keeper	Both	2013-14	34-5021	3 Round Beads. 0.234 Stem	
Valve Stem Seal	Both	2013-14	38-9675-45	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 56</b>	<b>4172cc (4.2L) DOHC 32V Vin L, W, ABH</b>			<b>1992-94 V8</b>	<b>BORE - 84.5mm/3.33"</b>
Valve	Int	1992-94	10-10353S	1.264 Head Dia.	
Valve Stem Seal	Both	1992-94	38-978-55	Viton. Metal Clad.	
<b>LINE 57</b>	<b>4172cc (4.2L) DOHC 32V BAR, BHF, BNK, BVJ,CNDA</b>			<b>2004-16 V8</b>	<b>BORE - 84.5mm/3.33"</b>
Valve	Exh	2007-14	10-3095	1.102 Head Dia. 0.235 Stem.	
	Int	2008-12	10-13314	1.333 Head Dia.	
Guide	Both	2004-14	31-03419	Manganese Bronze 1.415 OAL. 0.236 I.D.	
Keeper	Both	2004-14	34-5021	3 Round Beads. 0.234 Stem	
Valve Stem Seal	Both	2004-14	38-9675-45	Viton. Metal Clad. 0.234 Stem.	
<b>LINE 58</b>	<b>4172cc (4.2L) DOHC 40V AQF, AQG, ARS</b>			<b>1997-06 V8</b>	<b>BORE - 84.5mm/3.33"</b>
Valve	Exh	1997-06	10-3183	1.178 Head Dia. 6mm Stem. 2 per Cyl.	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 58</b>	<b>4172cc (4.2L) DOHC 40V AQF, AQG, ARS</b>			<b>1997-06 V8 BORE - 84.5mm/3.33"</b>
Valve	Int	1997-06	<b>10-3182</b>	1.06 Head Dia. 6mm Stem 3 per Cyl.
Guide	Both	1997-06	<b>31-03419</b>	Manganese Bronze 1.415 OAL
Keeper	Both	1997-06	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	1997-06	<b>38-9675-45</b>	Viton. Metal Clad.
<b>LINE 59</b>	<b>4921cc (5.0L) SOHC Diesel 20V BKF, BWF "TDI"</b>			<b>2005-08 V10 BORE - 81mm/3.19"</b>
Keeper	Both	2005-08	<b>34-5031</b>	3 Beads. 0.274 Stem
Valve Stem Seal	Both	2005-08	<b>38-978-55</b>	Viton. Metal Clad.
<b>LINE 60</b>	<b>5204cc (5.2L) DOHC 40V BSM, BXA, CT</b>			<b>2007-16 V10 BORE - 84.5mm/3.33"</b>
Valve	Exh	2007-14	<b>10-3095</b>	1.102 Head Dia. 0.235 Stem.
Guide	Both	2007-14	<b>31-03419</b>	Manganese Bronze 1.415 OAL
Keeper	Both	2007-14	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	2007-14	<b>38-9675-45</b>	Viton. Metal Clad. 0.234 Stem.
<b>LINE 61</b>	<b>5998cc (6.0L) DOHC 48V BSB</b>			<b>2005-16 W12 BORE - 84mm/3.31"</b>
Guide	Both	2005-15	<b>31-03419</b>	Manganese Bronze 1.415 OAL
Keeper	Both	2005-15	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	2005-15	<b>38-9675-45</b>	Viton. Metal Clad.
<b>LINE 62</b>	<b>6299cc (6.3L) DOHC 48V VVT</b>			<b>2013-16 W12 BORE - 86.1mm/3.39"</b>
Valve	Exh	2013-14	<b>10-13313</b>	1.189 Head Dia. 0.235 Stem. 4.024 OAL.
	Int	2013-14	<b>10-13312</b>	1.309 Head Dia. 0.235 Stem. 4.040 OAL.
Guide	Both	2013-14	<b>31-03419</b>	Manganese Bronze 1.415 OAL
Keeper	Both	2013-14	<b>34-5021</b>	3 Round Beads. 0.234 Stem
Valve Stem Seal	Both	2013-14	<b>38-9675-45</b>	Viton. Metal Clad. 0.234 Stem.

ENGINE	YEAR	CYL.	LINE NO.
1948cc (1.9L) DOHC 16V B4204T	1999-05	L4	1
1990cc (2.0L) OHV B20A B20B B20E	1969-75	L4	2
2127cc (2.1L) SOHC 8V Vin 4,41,B21,B21F,B21FT,B21FTI	1976-85	L4	3
2316cc (2.3L) SOHC 8V Vin 8, B23F, B23FT	1983-84	L4	4
2316cc (2.3L) SOHC 8V Vin 8, 88, B230F/FD/FT Turbo	1984-96	L4	5
2319cc (2.3L) DOHC 20V Turbo B5234/T	1994-05	L5	6
2383cc (2.4L) SOHC 12V Diesel Vin 7 D24/T	1980-86	L6	7
2435cc (2.4L) DOHC 20V B5244	1993-11	L5	8
2521cc (2.5L) DOHC 20V B5254T	2003-13	L5	9
2673cc (2.7L) SOHC 12V Vin 61, 65, B27F	1975-79	L6,V6	10
2849cc (2.8L) SOHC 12V Vin 6,B28F	1980-90	V6	11
2917cc (2.9L) DOHC 24V B6294S	1999-05	L6	12
2922cc (2.9L) DOHC 20V B6304	1992-04	L6	13
2953cc (3.0L) DOHC 24V (Ford)	2008-13	L6	14
2980cc (3.0L) OVA, B30A, B30E, F	1969-75	L6	15
3192cc (3.2L) DOHC 24V (Ford) B6324	2007-13	L6	16
4414cc (4.4L) DOHC 32V (Yamaha)	2005-11	V8	17

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1948cc (1.9L) DOHC 16V B4204T</b>		<b>1999-05</b>	<b>L4 BORE - 83mm/3.27"</b>
Keeper	Both	1999-05	34-5021	3 Round Beads. 0.234 Stem
<b>LINE 2</b>	<b>1990cc (2.0L) OHV B20A B20B B20E</b>		<b>1969-75</b>	<b>L4 BORE - 88.9mm/3.50"</b>
Valve Seat Insert	Exh	1969-75	21-1437-51	1.130T I.D. 1-7/16 O.D. 0.250 Depth
	Int	1969-75	21-1750-56	1.510T I.D. 1-3/4 O.D. 0.250 Depth
Expansion Plug Kit		1969-75	97-47	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>2127cc (2.1L) SOHC 8V Vin 4,41,B21,B21F,B21FT,B21FTI</b>		<b>1976-85</b>	<b>L4 BORE - 92mm/3.62"</b>
Valve	Int	1976-85	10-10406	1.732 Head Dia.
Valve Seat Insert	Exh	1976-85	21-1562-78	1.230 I.D. 1-9/16 O.D. 0.278 Depth
	Int	1976-85	21-1875-57	1.505T I.D. 1-7/8 O.D. 0.280 Depth
Guide	Exh	1976-85	30-8553	2.045 OAL
	Int	1976-85	30-8551	2.045 OAL
Keeper	Both	1976-85	34-619	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1976-85	38-961-55	Viton. Metal Clad.
Expansion Plug Kit		1976-85	97-48	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 4</b>	<b>2316cc (2.3L) SOHC 8V Vin 8, B23F, B23FT</b>		<b>1983-84</b>	<b>L4 BORE - 96mm/3.78"</b>
Valve	Int	1983-84	10-10406	1.732 Head Dia.
Valve Seat Insert	Exh	1983-84	21-1562-78	1.230 I.D. 1-9/16 O.D. 0.278 Depth
	Int	1983-84	21-1875-57	1.505T I.D. 1-7/8 O.D. 0.280 Depth
Keeper	Both	1983-84	34-619	Heat Treated. 3 Groove.
Valve Stem Seal	Both	1983-84	38-961-55	Viton. Metal Clad.
Expansion Plug Kit		1983-84	97-48	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>2316cc (2.3L) SOHC 8V Vin 8, 88, B230F/FD/FT Turbo</b>		<b>1984-96</b>	<b>L4 BORE - 96mm/3.78"</b>
Valve	Int	1984-96	10-10406	1.732 Head Dia.
Valve Seat Insert	Exh	1984-96	21-1562-78	1.230 I.D. 1-9/16 O.D. 0.278 Depth
	Int	1984-96	21-1875-57	1.505T I.D. 1-7/8 O.D. 0.280 Depth
Guide	Exh	1984-96	30-8551	2.045 OAL
	Int	1984-96	30-8553	2.045 OAL



# VOLVO

# PASSENGER CAR & TRUCK

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 5</b>	<b>2316cc (2.3L) SOHC 8V Vin 8, 88, B230F/FD/FT Turbo</b>			<b>1984-96 L4</b>	<b>BORE - 96mm/3.78"</b>
Keeper	Both	1984-96	34-619	Heat Treated. 3 Groove.	
Valve Stem Seal		1984-96	38-961-55	Viton. Metal Clad.	
<b>LINE 6</b>	<b>2319cc (2.3L) DOHC 20V Turbo B5234/T</b>			<b>1994-05 L5</b>	<b>BORE - 81mm/3.19"</b>
Valve	Exh	1994-97	10-03008	1.063 Head Dia. 7mm stem.	
	Int	1994-97	10-03007	1.220 Head Dia. 7mm stem.	
Guide	Both	1994-04	30-8552	1.770 OAL	
Keeper	Both	1994-04	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	1994-04	36-7021	Hydraulic	
<b>LINE 7</b>	<b>2383cc (2.4L) SOHC 12V Diesel Vin 7 D24/T</b>			<b>1980-86 L6</b>	<b>BORE - 76.5mm/3.01"</b>
Valve	Exh	1980-86	10-10370S	1.232 Head Dia. 3 Groove	
Valve Seat Insert	Exh	1980-86	21-1312-62	1.065T I.D. 1-5/16 O.D. 0.285 Depth	
	Int	1980-86	21-1500-62	1.220T I.D. 1-1/2 O.D. 0.310 Depth.	
Guide	Both	1980-86	30-7359	1.435 OAL. 0.4765 O.D.	
Keeper	Exh	1980-86	34-619	Heat Treated. 3 Groove.	
Valve Stem Seal	Both	1980-86	38-3995-55	Viton. Metal Clad.	
	Both	1980-86	38-961-55	Viton. Metal Clad.	
<b>LINE 8</b>	<b>2435cc (2.4L) DOHC 20V B5244</b>			<b>1993-11 L5</b>	<b>BORE - 83mm/3.27"</b>
Valve	Exh	1993-06	10-03008	1.063 Head Dia. 7mm stem.	
	Int	1993-06	10-03007	1.220 Head Dia. 7mm stem.	
Keeper	Both	1993-11	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	1993-06	36-7021	Hydraulic	
<b>LINE 9</b>	<b>2521cc (2.5L) DOHC 20V B5254T</b>			<b>2003-13 L5</b>	<b>BORE -</b>
Keeper	Both	2003-13	34-5021	3 Round Beads. 0.234 Stem	
<b>LINE 10</b>	<b>2673cc (2.7L) SOHC 12V Vin 61, 65, B27F</b>			<b>1975-79 L6,</b>	<b>BORE - 88mm/3.47"</b>
Valve Seat Insert	Exh	1975-79	21-1562-71	1.275T I.D. 1-9/16 O.D. 0.258 Depth	
	Int	1975-79	21-1812-59	1.540T I.D. 1-13/16 O.D. 0.250 Depth	
Valve Stem Seal	Both	1975-79	38-961-55	Viton. Metal Clad.	
<b>LINE 11</b>	<b>2849cc (2.8L) SOHC 12V Vin 6,B28F</b>			<b>1980-90 V6</b>	<b>BORE - 90.9mm/3.58"</b>
Valve Seat Insert	Exh	1980-90	21-1562-71	1.275T I.D. 1-9/16 O.D. 0.258 Depth	
	Int	1980-90	21-1812-59	1.540T I.D. 1-13/16 O.D. 0.250 Depth	
Valve Stem Seal	Both	1980-90	38-961-55	Viton. Metal Clad.	
<b>LINE 12</b>	<b>2917cc (2.9L) DOHC 24V B6294S</b>			<b>1999-05 L6</b>	<b>BORE -</b>
Valve	Exh	1999-05	10-03008	1.063 Head Dia. 7mm stem.	
	Int	1999-05	10-03007	1.220 Head Dia. 7mm stem.	
Keeper	Both	1999-05	34-5021	3 Round Beads. 0.234 Stem	
Lifter	Both	1999-05	36-7021	Hydraulic	
Valve Stem Seal	Both	1999-05	38-978-55	Viton. Metal Clad.	
<b>LINE 13</b>	<b>2922cc (2.9L) DOHC 20V B6304</b>			<b>1992-04 L6</b>	<b>BORE - 83mm/3.27"</b>
Valve	Exh	1992-98	10-03008	1.063 Head Dia. 7mm stem.	
	Int	1992-98	10-03007	1.220 Head Dia. 7mm stem.	
Lifter	Both	1992-98	36-7021	Hydraulic	

**VOLVO****PASSENGER CAR & TRUCK**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 14</b>				
<b>2953cc (3.0L) DOHC 24V (Ford)</b>		<b>2008-13</b>	<b>L6</b>	<b>BORE - 84mm/3.31"</b>
Keeper	Both	2008-13	34-5021	3 Round Beads. 0.234 Stem
<b>LINE 15</b>				
<b>2980cc (3.0L) OVA, B30A, B30E, F</b>		<b>1969-75</b>	<b>L6</b>	<b>BORE - 88.9mm/3.50"</b>
Valve Seat Insert	Exh	1969-75	21-1437-51	1.130T I.D. 1.7/16 O.D. 0.250 Depth
	Int	1969-75	21-1750-56	1.510T I.D. 1-3/4 O.D. 0.250 Depth
Expansion Plug Kit	Both	1969-75	97-48	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 16</b>				
<b>3192cc (3.2L) DOHC 24V (Ford) B6324</b>		<b>2007-13</b>	<b>L6</b>	<b>BORE - 84mm/3.31"</b>
Keeper	Both	2007-13	34-5021	3 Round Beads. 0.234 Stem
<b>LINE 17</b>				
<b>4414cc (4.4L) DOHC 32V (Yamaha)</b>		<b>2005-11</b>	<b>V8</b>	<b>BORE - 94mm/3.70"</b>
No Parts Available			00	

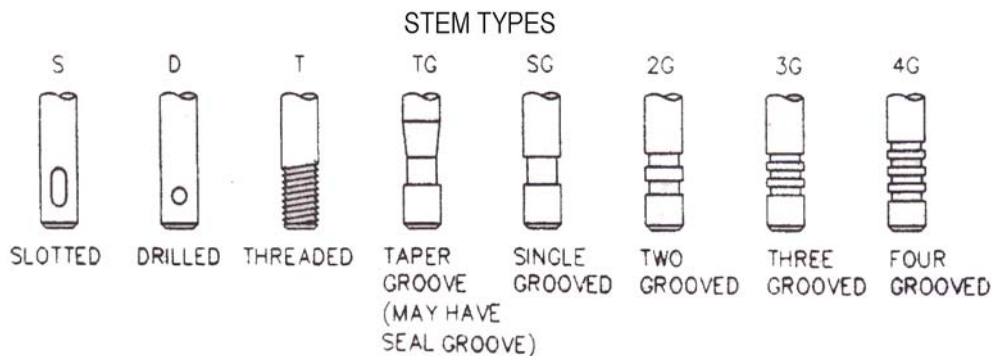
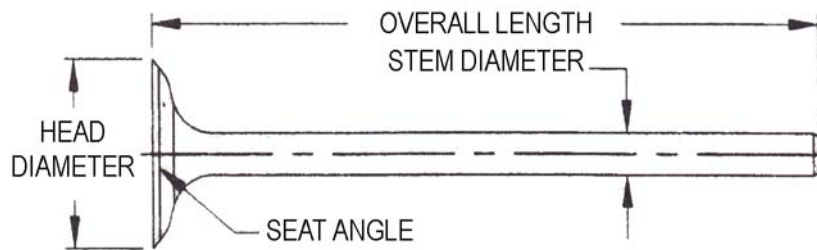
**YUGO****PASSENGER CAR**

<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
1116cc (1.1L) SOHC Fiat	1986-89	L4	1

<b>COMPONENT</b>	<b>I/E/B</b>	<b>YEARS</b>	<b>PART No.</b>	<b>NOTES</b>
<b>LINE 1</b>	<b>1116cc (1.1L) SOHC Fiat</b>		<b>1986-89 L4</b>	<b>BORE - 80mm/3.15"</b>
<b>Valve Seat Insert</b>	Exh	1986-89	<b>21-1312-54</b>	1.070T I.D. 1-5/16 O.D. 0.330 Depth
	Int	1986-89	<b>21-1500-65</b>	1.140T I.D. 1-1/2 O.D. 0.325 Depth
<b>Expansion Plug Kit</b>		1986-89	<b>97-96</b>	Steel Kit. Brass Kit Avail. In Suffix B

# MANUFACTURER ABBREVIATIONS FOR NUMERICAL LISTINGS

Engine Manufacturer	Abbr.	Engine Manufacturer	Abbr.
BMW	BMW	Land Rover	LAN
Chrysler Marine	CHM	Mazda	MAZ
Chrysler Passenger Car / Truck	CHC	Mercedes Benz	MBZ
Daewoo	DAE	Mitsubishi	MIT
Fiat	FIA	Nissan	NIS
Ford Marine	FOM	Peugeot	PEU
Ford Passenger Car / Truck	FOR	Renault	REN
GM Marine	GMM	Saab	SAA
GM Passenger Car / Truck	GM	Subaru	SUB
Harley Davidson	HAR	Suzuki	SUZ
Honda	HON	Toyota	TOY
Hyundai	HYU	Volkswagen/Audi	VOK
Isuzu	ISU	Volvo	VOL
Jaguar	JAG	Yugo	YUG
Kia	KIA		



## VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-121	1.468	0.3715	5.810	0.1882	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 24
10-122	1.531	0.3727	5.810	0.1880	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 24
10-185	1.407	0.3405	4.840	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 56,63
10-199	1.641	0.3412	6.283	0.6780	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 90,100
10-210	1.328	0.339	5.198	0.4150	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 62
10-211	1.520	0.3406	5.177	0.4215	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 62
10-212	1.510	0.3410	4.819	0.2565	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 57,67
10-257	1.501	0.3400	4.875	0.2508	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 5 CHC 66,72,74
10-298	1.718	0.3410	4.845	0.2510	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 5 CHC 66,72,74
10-302	2.000	0.3733	4.791	0.1870	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 25
10-303	1.468	0.3715	5.913	0.1858	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 25
10-308	1.875	0.3415	6.391	0.7563	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 100,113

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-349	1.531	0.3405	4.845	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 56,63
10-349+15	1.531	0.3555	4.845	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 56,63
10-373	1.780	0.3421	5.110	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 53,66,70,75,82,83
10-373+3	1.780	0.3451	5.110	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 53,66,70,75,82,83
10-373+15	1.780	0.3571	5.110	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 53,66,70,75,82,83
10-373+30	1.780	0.3721	5.110	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 53,66,70,75,82,83
10-375	1.510	0.3418	5.089	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 51,53,58,66,70,75,82
10-375+15	1.510	0.3568	5.089	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 51,53,58,66,70,75,82
10-375+3	1.510	0.3568	5.089	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 51,53,58,66,70,75,82
10-375+30	1.510	0.3718	5.089	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 51,53,58,66,70,75,82
10-376	1.647	0.3420	5.090	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 58,70,75,82
10-376+30	1.647	0.3720	5.090	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 58,70,75,82
10-399	1.720	0.3413	4.917	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 65,75,89,98,106,113,114,124,127,138,146
10-399+3	1.720	0.3443	4.917	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 65,75,89,98,106,113,114,124,127,138,146
10-399+15	1.720	0.3569	4.917	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 65,75,89,98,106,113,114,124,127,138,146
10-399+30	1.720	0.3713	4.917	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 65,75,89,98,106,113,114,124,127,138,146
10-400	1.500	0.3412	4.928	0.2890	45	2G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GM 65,75,89,90,98,100,106,113,114,124,136,138,146,154,171
10-400+3	1.500	0.3445	4.928	0.2890	45	2G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GM 65,75,89,90,98,100,106,113,114,124,136,138,146,154,171
10-400+15	1.500	0.3562	4.928	0.2890	45	2G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GM 65,75,89,90,98,100,106,113,114,124,136,138,146,154,171
10-400+30	1.500	0.3712	4.928	0.2890	45	2G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GM 65,75,89,90,98,100,106,113,114,124,136,138,146,154,171
10-494	1.925	0.3421	5.110	0.2000	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 70,75,82
10-514	1.844	0.3725	4.599	0.2130	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 11 CHC 77,83,84,85
10-518	1.563	0.3715	4.539	0.0989	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 11 CHC 77,83,84,85
10-520	1.600	0.3725	4.889	0.2235	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 97,101,107,108,109
10-548	2.080	0.3725	4.869	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 4,7,8,13,17,18 CHC 97,101,104,107,108,109
10-548+15	2.080	0.3875	4.869	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 4,7,8,13,17,18 CHC 97,101,104,107,108,109
10-549	1.406	0.3720	4.892	0.0875	44	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 53,64,71,73,79,86
10-549+15	1.406	0.387T	4.892	0.0875	44	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 53,64,71,73,79,86
10-550	1.787	0.3720	4.899	0.0898	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 53,64,71,73,79,86
10-550+15	1.787	0.3870	4.899	0.0898	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 53,64,71,73,79,86
10-564	1.268	0.3100	4.260	0.1900	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 29,37,48
10-567	1.620	0.3725	4.774	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-567+5	1.620	0.3775	4.774	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-567+15	1.620	0.3875	4.774	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-567+30	1.620	0.4025	4.774	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-576	1.500	0.4335	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 16 CHC 98,107
10-577	1.880	0.3725	5.668	0.2260	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 16 CHC 98,107
10-577+5	1.880	0.3775	5.668	0.2260	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 16 CHC 98,107
10-627	1.527	0.3105	4.260	0.1902	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 37,48
10-627+3	1.527	0.3135	4.260	0.1902	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 37,48
10-637	2.027	0.3716	5.440	0.3209	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 96,99,108,115
10-637+3	2.027	0.3746	5.440	0.3209	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 96,99,108,115
10-637+5	2.027	0.3766	5.440	0.3209	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 96,99,108,115
10-637+15	2.027	0.3866	5.440	0.3209	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 96,99,108,115
10-637+30	2.027	0.4016	5.440	0.3209	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 96,99,108,115
10-696	1.940	0.3414	4.880	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 146,154,171
10-696+3	1.940	0.3444	4.880	0.2591	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 146,154,171
10-696+15	1.940	0.3564	4.880	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 146,154,171
10-696+30	1.940	0.3714	4.880	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 146,154,171
10-742	1.450	0.3420	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 68,74
10-742+3	1.450	0.3450	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 68,74
10-742+15	1.450	0.3570	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 68,74
10-742+30	1.450	0.3720	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 68,74
10-917	1.505	0.4343	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-917+3	1.505	0.4373	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-917+15	1.505	0.4358	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-917+30	1.505	0.4403	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-919	1.600	0.3415	4.904	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 2 GM 134,146,154
10-938	1.780	0.3725	4.979	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 67,68,76,83,84
10-938+5	1.780	0.3775	4.979	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 67,68,76,83,84

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-938+15	1.780	0.3875	4.979	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 67,68,76,83,84
10-938+30	1.780	0.4025	4.979	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 67,68,76,83,84
10-947	1.781	0.3420	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 74
10-947+3	1.781	0.3450	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 74
10-947+15	1.781	0.3570	4.863	0.2398	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 74
10-949	1.753	0.3715	5.393	0.3030	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 84
10-949+15	1.753	0.3865	5.393	0.3030	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 84
10-958	1.920	0.3411	4.898	0.2200	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 168,179
10-963	1.781	0.3420	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 59,77
10-963+3	1.781	0.3450	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 59,77
10-963+15	1.781	0.3570	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 59,77
10-963+30	1.781	0.3720	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 59,77
10-965S	1.560	0.3420	4.810	0.2453	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 59,76,77
10-965S+15	1.560	0.3570	4.810	0.2453	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 59,76,77
10-969	1.875	0.3427	4.740	0.2280	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 147,156
10-970	1.562	0.3422	4.728	0.2280	44	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GM 147,156
10-974	1.624	0.3422	4.695	0.2579	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 156,173,181,191
10-975	1.625	0.3410	4.643	0.1195	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 59 GM 94
10-976	1.375	0.3407	4.643	0.1195	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 59 GM 94,130,150
10-988	2.020	0.3415	4.880	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 134,146,154
10-996S	1.660	0.3718	5.367	0.2201	46	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 161,183
10-996S+15	1.660	0.3868	5.367	0.2201	46	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 161,183
10-996S+30	1.660	0.4018	5.367	0.2201	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 161,183
10-997	1.840	0.3720	5.235	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 161,183,190
10-997+3	1.840	0.3750	5.235	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 161,183,190
10-997+15	1.840	0.3870	5.235	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 161,183,190
10-997+30	1.840	0.4050	5.235	0.2201	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 161,183,190
10-1000	1.451	0.3415	4.873	0.3720	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOM 2,3 FOR 74,81
10-1000+3	1.451	0.3445	4.873	0.3602	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOM 2,3 FOR 74,81
10-1000+15	1.451	0.3565	4.873	0.3602	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOM 2,3 FOR 74,81
10-1001	1.781	0.3415	4.873	0.3602	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOM 2,3 FOR 74,81
10-1001+3	1.781	0.3445	4.873	0.3602	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOM 2,3 FOR 74,81
10-1001+15	1.781	0.3565	4.873	0.3602	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOM 2,3 FOR 74,81
10-1002	2.072	0.3427	4.688	0.2585	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 173,181,191
10-1017S	1.500	0.4335	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 98,107
10-1017	1.500	0.4335	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 98,107
10-1017S+5	1.500	0.4385	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 98,107
10-1047	1.625	0.3720	4.917	0.1850	44	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 89,94,102
10-1048	2.025	0.3720	4.899	0.1850	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 89,94,102,105
10-1057	1.753	0.3714	5.393	0.4730	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-1057+15	1.753	0.3864	5.393	0.4730	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-1057+3	1.753	0.3744	5.393	0.4730	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-1057+30	1.753	0.4014	5.393	0.4730	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-1057S	1.753	0.3714	5.393	0.4730	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100,107,109
10-1072	1.640	0.3410	4.877	0.2201	44	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 168,179
10-1082	1.875	0.3725	5.009	0.1195	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 91 GM 157
10-1083	1.625	0.3418	5.246	0.2100	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 194, 200
10-1084	2.000	0.3420	5.233	0.2098	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 194, 200
10-1087	1.940	0.3720	5.230	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 161
10-1093	1.660	0.3410	4.984	0.2200	44	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 155,174,193
10-1097	1.770	0.3410	5.093	0.2201	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 155,174,185
10-1098	2.110	0.3415	5.098	0.2200	29	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 155,174,185
10-1102	1.654	0.3420	5.080	0.4000	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 5,6 FOR 120,124
10-1102+3	1.654	0.3450	5.080	0.4000	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 5,6 FOR 120,124
10-1102+15	1.654	0.3570	5.080	0.4000	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 5,6 FOR 120,124
10-1103	2.083	0.3420	5.288	0.3402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 5,6 FOR 120,124
10-1103+3	2.083	0.3450	5.288	0.3402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 5,6 FOR 120,124
10-1103+15	2.083	0.3570	5.288	0.3402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 5,6 FOR 120,124
10-1105	2.000	0.3725	5.138	0.1195	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 172,187,192
10-1106	1.720	0.3715	5.355	0.2201	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 172,187,189

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1106+15	1.720	0.3865	5.355	0.2201	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 172,187,189
10-1107	2.065	0.3720	5.230	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 170,182,189
10-1107+15	2.065	0.3870	5.230	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 170,182,189
10-1107S	2.065	0.3720	5.230	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 170,182,189
10-1120	1.780	0.3420	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 59,76,77
10-1120+3	1.780	0.3450	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 59,76,77
10-1120+15	1.780	0.3570	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 59,76,77
10-1120+30	1.780	0.3720	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 59,76,77
10-1131	1.875	0.3718	5.355	0.2201	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 170,182,189
10-1135	1.451	0.3414	5.070	0.4811	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3 FOR 64,81,93
10-1135+3	1.451	0.3444	5.070	0.4811	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3 FOR 64,81,93
10-1135+15	1.451	0.3564	5.070	0.4811	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3 FOR 64,81,93
10-1135+30	1.451	0.3714	5.070	0.4811	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3 FOR 64,81,93
10-1137	1.781	0.3420	5.050	0.4610	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3 FOR 81
10-1137+3	1.781	0.3450	5.050	0.4610	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3 FOR 81
10-1137+15	1.781	0.3570	5.050	0.4610	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3 FOR 81
10-1137+30	1.781	0.3720	5.050	0.4610	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3 FOR 81
10-1153	1.660	0.3715	5.368	0.2200	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 183
10-1153+15	1.660	0.3730	5.368	0.2200	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 183
10-1156	1.740	0.3722	4.885	0.2235	45	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 95,101,104,109
10-1156+15	1.740	0.3872	4.885	0.2235	45	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 95,101,104,109
10-1160	1.770	0.3410	4.975	0.2200	44	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 155,174,193
10-1161	2.110	0.3415	4.979	0.2200	29	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 155,174,193
10-1164	2.190	0.3720	5.225	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 11,12 GM 170,182,189,199
10-1169	1.655	0.3415	5.050	0.1961	45	4G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 94,95,110
10-1169+15	1.655	0.3565	5.050	0.1961	45	4G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 94,95,110
10-1169+30	1.655	0.3715	5.050	0.1961	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 94,95,110
10-1170	2.041	0.3419	5.231	0.2118	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 94,95,110
10-1170+3	2.041	0.3459	5.231	0.2118	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 94,95,110
10-1170+15	2.041	0.3569	5.231	0.2118	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 94,95,110
10-1170+30	2.041	0.3719	5.231	0.2118	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 94,95,110
10-1171	1.709	0.3415	5.050	0.1960	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 94
10-1172	2.190	0.3420	5.231	0.2120	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 94
10-1177+15	1.560	0.3569	4.810	0.2449	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 59,76,77
10-1177S	1.560	0.3419	4.810	0.2449	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 59,76,77
10-1180	1.880	0.3725	4.981	0.3362	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 83,84,95,96
10-1180+5	1.880	0.3775	4.981	0.3362	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 83,84,95,96
10-1180+3	1.880	0.3755	4.981	0.3362	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 83,84,95,96
10-1180+15	1.880	0.3875	4.981	0.3362	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 83,84,95,96
10-1180+30	1.880	0.4025	4.981	0.3362	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 83,84,95,96
10-1186	1.811	0.3725	4.979	0.3362	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHM 2,9,15 CHC 84,95
10-1188	1.500	0.3725	5.027	0.1197	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 91,157
10-1189	1.625	0.3725	5.158	0.1195	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 172,187,192
10-1192	1.500	0.3414	4.928	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 9,10 GM 65,75,89,90,96,98,100,106,113,114,115,124,136,138,146,154,171
10-1192+3	1.500	0.3445	4.928	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 9,10 GM 65,75,89,90,96,98,100,106,113,114,115,124,136,138,146,154,171
10-1192+15	1.500	0.3562	4.928	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 9,10 GM 65,75,89,90,96,98,100,106,113,114,115,124,136,138,146,154,171
10-1193	1.720	0.3413	4.917	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 1,2,3,4,5,6,7,8,9,10 GM 65,75,89,98,106,113,114,119,124,127,136,138,146,154,171
10-1193+3	1.720	0.3448	4.917	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 1,2,3,4,5,6,7,8,9,10 GM 65,75,89,98,106,113,114,119,124,127,136,138,146,154,171
10-1193+15	1.720	0.3568	4.917	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 1,2,3,4,5,6,7,8,9,10 GM 65,75,89,98,106,113,114,119,124,127,136,138,146,154,171
10-1194	1.720	0.3420	4.917	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 106,127,154
10-1195	1.940	0.3414	4.880	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 2,8,9,10,GM 115,138,154
10-1195+3	1.940	0.3444	4.880	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 2,8,9,10,GM 115,138,154
10-1195+15	1.940	0.3569	4.880	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 2,8,9,10,GM 115,138,154
10-1199	1.417	0.3153	4.353	0.2461	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 16
10-1200	1.654	0.3163	4.376	0.2461	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 16

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1206S	1.500	0.3413	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 1,2,3,4,5,6,7,8,9,10 GM 65,75,89,90,98,100,106,113,114,124,127,136,138,146,154,171
10-1210	1.684	0.3423	4.675	0.2580	30	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	GM 191
10-1212	1.622	0.3423	4.708	0.2280	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 156
10-1235S	1.660	0.3716	5.367	0.2200	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 161,183,189
10-1237	1.541	0.3415	5.070	0.3930	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3,4 FOR 93
10-1237+3	1.541	0.3445	5.070	0.3930	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3,4 FOR 93
10-1237+15	1.541	0.3565	5.070	0.3930	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3,4 FOR 93
10-1237+30	1.541	0.3715	5.070	0.3930	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3,4 FOR 93
10-1238	1.846	0.3417	5.079	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 4 FOR 93
10-1238+3	1.846	0.3447	5.079	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 4 FOR 93
10-1238+15	1.846	0.3567	5.079	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 4 FOR 93
10-1238+30	1.846	0.3717	5.079	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 4 FOR 93
10-1241C	1.660	0.3716	5.350	0.2200	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 161,183,190
10-1242	1.559	0.3715	5.436	0.3209	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 90,96,99,108,113,115
10-1242+3	1.559	0.3745	5.436	0.3209	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 90,96,99,108,113,115
10-1242+15	1.559	0.3865	5.436	0.3209	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 90,96,99,108,113,115
10-1242+30	1.559	0.4015	5.436	0.3209	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 90,96,99,108,113,115
10-1245	1.660	0.3410	4.959	0.2200	44	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 155,174
10-1257	1.680	0.3720	4.930	0.2551	44	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 94,105
10-1258	2.025	0.3720	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 94,105
10-1258+3	2.025	0.3750	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 94,105
10-1258+15	2.025	0.3870	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 94,105
10-1260	1.787	0.3720	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 64,73,82
10-1260+3	1.787	0.3750	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 64,73,82
10-1260+15	1.787	0.3870	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 64,73,82
10-1260+30	1.787	0.4020	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 64,73,82
10-1261S	1.720	0.3716	5.355	0.2201	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 11 GM 189
10-1263	1.875	0.3428	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 156
10-1263+3	1.875	0.3458	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 156
10-1263+15	1.875	0.3578	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 156
10-1265	1.360	0.3715	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-1265+3	1.360	0.3745	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-1265+5	1.360	0.3765	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-1265+15	1.360	0.3865	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-1265+30	1.360	0.4015	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 1 CHC 42,52,58
10-1266	1.390	0.3101	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1266+3	1.390	0.3131	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1266+15	1.390	0.3251	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1266+30	1.390	0.3401	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1268	1.651	0.3103	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1268+3	1.651	0.3133	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1268+15	1.651	0.3253	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1268+30	1.651	0.3403	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 37,48,63
10-1271	1.654	0.3419	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 1,5,6 FOR 120,124
10-1271+3	1.654	0.3449	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 1,5,6 FOR 120,124
10-1271+15	1.654	0.3569	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 1,5,6 FOR 120,124
10-1272	2.083	0.3419	5.198	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 1,5,6 FOR 120,124
10-1272+3	2.083	0.3449	5.198	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 1,5,6 FOR 120,124
10-1272+15	2.083	0.3569	5.198	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 1,5,6 FOR 120,124
10-1273	1.880	0.3720	4.981	0.2238	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 83,84,95,96
10-1281	1.740	0.3715	4.897	0.3579	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 109
10-1285	1.570	0.3165	4.158	0.2008	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 34,38,39
10-1285+3	1.570	0.3195	4.158	0.2008	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 34,38,39
10-1292	1.625	0.3414	4.998	0.2220	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 180,194,200
10-1293	2.000	0.3416	4.985	0.2220	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 180,194,200
10-1294	1.500	0.3718	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 115,136,154,171
10-1294S	1.500	0.3718	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 7,10 GM 115,136,154,171
10-1294+3	1.500	0.3748	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 115,136,154,171
10-1294+15	1.500	0.3868	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 115,136,154,171
10-1294+30	1.500	0.4018	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 115,136,154,171



# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1296	1.960	0.3415	4.980	0.2200	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 155,174,193
10-1300	1.269	0.3153	4.162	0.1799	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 34,38,39
10-1300+3	1.269	0.3183	4.162	0.1799	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 34,38,39
10-1300+15	1.269	0.3303	4.162	0.1799	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 34,38,39
10-1307	1.600	0.3715	5.006	0.2236	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 88,95,96
10-1307+5	1.600	0.3765	5.006	0.2236	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 88,95,96
10-1307+15	1.600	0.3865	5.006	0.2236	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 88,95,96
10-1307+30	1.600	0.4015	5.006	0.2236	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 88,95,96
10-1309	1.600	0.3715	5.006	0.4085	43	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 95
10-1312S	1.517	0.3715	4.996	0.4079	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 2,9,15 CHC 84,95
10-1318	1.425	0.3408	4.698	0.1195	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 99
10-1320	1.550	0.3726	5.016	0.1185	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 157
10-1320+15	1.550	0.3876	5.016	0.1185	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 157
10-1321	1.687	0.3726	5.155	0.1195	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 192
10-1322	1.300	0.3423	4.680	0.2579	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 111
10-1322+3	1.300	0.3453	4.680	0.2579	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 111
10-1323	1.522	0.3428	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 111
10-1324	1.622	0.3423	4.675	0.2579	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 156,191
10-1325	1.406	0.3721	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 64,73,82
10-1325+3	1.406	0.3751	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 64,73,82
10-1325+15	1.406	0.3871	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 64,73,82
10-1325+30	1.406	0.4021	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 64,73,82
10-1326	1.680	0.3714	4.910	0.1823	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 94,105
10-1326+15	1.680	0.3864	4.910	0.1823	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 94,105
10-1327	1.460	0.3414	5.070	0.3929	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3,4 FOR 93
10-1327+15	1.460	0.3564	5.070	0.3929	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOM 3,4 FOR 93
10-1328	1.782	0.3419	5.070	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3,4 FOR 81,93
10-1328+3	1.782	0.3449	5.070	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3,4 FOR 81,93
10-1328+15	1.782	0.3569	5.070	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3,4 FOR 81,93
10-1328+30	1.782	0.3719	5.070	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOM 3,4 FOR 81,93
10-1329	1.500	0.3715	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 76,83,84
10-1329+5	1.500	0.3769	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 76,83,84
10-1329+15	1.500	0.3865	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 76,83,84
10-1329+30	1.500	0.4019	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHM 6,10 CHC 76,83,84
10-1332	1.508	0.3704	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 84
10-1332+3	1.508	0.3734	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 84
10-1332+15	1.508	0.3854	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 84
10-1346S	1.635	0.4340	5.702	0.2717	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 111,127
10-1348	1.753	0.3714	5.393	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 85,98,100
10-1349S	1.753	0.3714	5.393	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 98,100,107,109
10-1352	1.425	0.3408	4.698	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 78,99
10-1354	1.502	0.3423	4.688	0.2579	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 139,156,177
10-1354+3	1.502	0.3453	4.688	0.2579	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 139,156,177
10-1354+15	1.502	0.3573	4.688	0.2579	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 139,156,177
10-1357	1.751	0.3103	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 48,63
10-1357+3	1.751	0.3133	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 48,63
10-1357+15	1.751	0.3253	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 48,63
10-1357+30	1.751	0.3403	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 48,63
10-1358	1.560	0.3419	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 59,77
10-1358+3	1.560	0.3449	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 59,77
10-1358+15	1.560	0.3569	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 59,77
10-1358+30	1.560	0.3719	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 59,77
10-1361	1.500	0.3412	5.078	0.2858	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 132
10-1362	1.720	0.3419	5.078	0.2860	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 132
10-1362+15	1.720	0.3569	5.078	0.2860	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 132
10-1362+3	1.720	0.3449	5.078	0.2860	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 132
10-1367	1.655	0.3414	5.050	0.2862	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 95,110
10-1367+3	1.655	0.3444	5.050	0.2862	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 95,110
10-1369	1.622	0.3423	5.029	0.2580	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 112,158
10-1370	1.875	0.3428	5.019	0.2580	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 112,158

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1371	1.380	0.3413	4.920	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 79,119
10-1371+3	1.380	0.3443	4.920	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 79,119
10-1371+30	1.380	0.3713	4.920	0.2890	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	GM 79,119
10-1372	1.600	0.3413	4.880	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 79
10-1372+15	1.600	0.3563	4.880	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 79
10-1380	2.041	0.3419	5.231	0.2618	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 95,110
10-1380+3	2.041	0.3449	5.231	0.2618	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 95,110
10-1380+15	2.041	0.3569	5.231	0.2618	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 95,110
10-1381	1.562	0.3704	4.954	0.4055	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 103
10-1381+3	1.562	0.3734	4.954	0.3992	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 103
10-1381+15	1.562	0.3854	4.954	0.3992	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 103
10-1382	1.784	0.3714	5.147	0.2920	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 103
10-1382+3	1.784	0.3744	5.147	0.2920	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 103
10-1382+15	1.784	0.3864	5.147	0.2920	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 103
10-1383C	1.562	0.3708	4.954	0.3020	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 103
10-1384S	1.784	0.3714	5.147	0.2921	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 103
10-1386S	2.064	0.3714	5.147	0.2921	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 121
10-1387	1.500	0.3408	4.718	0.2717	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1387+3	1.500	0.3438	4.718	0.2717	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1387+15	1.500	0.3558	4.718	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1388	1.710	0.3407	4.713	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1388+3	1.710	0.3437	4.713	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1388+15	1.710	0.3557	4.713	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1388+30	1.710	0.3707	4.713	0.2717	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 70,78,99,107
10-1389	1.500	0.3408	4.718	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,99
10-1389+3	1.500	0.3438	4.718	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,99
10-1389+15	1.500	0.3558	4.718	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 70,99
10-1389+30	1.500	0.3708	4.718	0.2717	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 70,99
10-1393	1.840	0.3413	4.912	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 7 GM 96,136
10-1393+3	1.840	0.3443	4.912	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 7 GM 96,136
10-1393+15	1.840	0.3563	4.912	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 7 GM 96,136
10-1393+30	1.840	0.3713	4.912	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 7 GM 96,136
10-1394	1.307	0.3413	4.730	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 43 GM 68
10-1394+3	1.307	0.3443	4.730	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 43 GM 68
10-1394+15	1.307	0.3563	4.730	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 43 GM 68
10-1394+30	1.307	0.3713	4.730	0.2890	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 43 GM 68
10-1395	1.600	0.3413	4.700	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 43 GM 68
10-1395+3	1.600	0.3443	4.700	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 43 GM 68
10-1395+15	1.600	0.3563	4.700	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 43 GM 68
10-1395+30	1.600	0.3713	4.700	0.2591	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 43 GM 68
10-1397	1.500	0.3414	4.807	0.3780	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 26
10-1399	1.500	0.3715	4.983	0.2232	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 83,84
10-1399+15	1.500	0.3865	4.983	0.2232	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 83,84
10-1401	1.600	0.3710	5.003	0.2235	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 83,84
10-1416	1.682	0.3419	5.070	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 64
10-1416+15	1.682	0.3569	5.070	0.3929	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 64
10-1417	1.617	0.3716	4.995	0.4085	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 84,95
10-1417+5	1.617	0.3766	4.995	0.4085	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 84,95
10-1417+15	1.617	0.3866	4.995	0.4085	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 84,95
10-1419	1.517	0.3716	4.995	0.4085	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 67,68,84
10-1419+15	1.517	0.3866	4.995	0.4085	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 67,68,84
10-1433	1.500	0.3414	4.988	0.2220	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 162
10-1434	1.750	0.3416	4.975	0.2220	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 162
10-1434+3	1.750	0.3446	4.975	0.2220	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 162
10-1434+15	1.750	0.3466	4.975	0.2220	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 162
10-1437	1.500	0.3415	4.620	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 35 GM 64
10-1437+3	1.500	0.3455	4.620	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 35 GM 64
10-1437+15	1.500	0.3565	4.620	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 35 GM 64
10-1437+30	1.500	0.3715	4.620	0.2890	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 35 GM 64
10-1438	1.720	0.3421	4.665	0.3417	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 35 GM 64

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1438+3	1.720	0.3451	4.665	0.3417	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 35 GM 64
10-1438+15	1.720	0.3571	4.665	0.3417	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 35 GM 64
10-1438+30	1.720	0.3721	4.665	0.3417	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 35 GM 64
10-1441	1.406	0.3720	4.892	0.2453	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 53,64,73,80,82
10-1441+15	1.406	0.3870	4.892	0.2453	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 53,64,73,80,82
10-1442	1.787	0.3720	4.899	0.2453	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 53,64,73,80,82
10-1442+15	1.787	0.3870	4.899	0.2453	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 53,64,73,80,82
10-1448	1.394	0.3116	4.442	0.2583	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26
10-1449	1.598	0.3127	4.419	0.3545	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26
10-1449+15	1.598	0.3677	4.419	0.3545	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26
10-1450	1.750	0.3428	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 139
10-1450+3	1.750	0.3458	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 139
10-1450+15	1.750	0.3578	4.667	0.2579	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 139
10-1451	1.457	0.3152	5.189	0.3248	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 7,14
10-1452	1.654	0.3163	5.306	0.3598	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 7,14
10-1452+3	1.654	0.3193	5.306	0.3598	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 7,14
10-1457	1.995	0.3427	4.707	0.2580	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 156,173,177,181,191
10-1457+3	1.995	0.3457	4.707	0.2580	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 156,173,177,181,191
10-1463	1.299	0.3414	4.729	0.2181	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 108
10-1463+3	1.299	0.3444	4.729	0.2181	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 108
10-1464	1.535	0.3416	4.823	0.3240	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 108
10-1464+3	1.535	0.3446	4.823	0.3240	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 108
10-1464+15	1.535	0.3566	4.823	0.3240	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 108
10-1465	1.378	0.3133	4.730	0.2878	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 35,40
10-1465+3	1.378	0.3163	4.730	0.2878	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 35,40
10-1465+15	1.378	0.3283	4.730	0.2878	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 35,40
10-1466	1.600	0.3136	4.700	0.2579	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 35,40
10-1466+3	1.600	0.3166	4.700	0.2579	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 35,40
10-1466+15	1.600	0.3286	4.700	0.2579	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 35,40
10-1469	1.460	0.3414	4.845	0.1780	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56
10-1469+3	1.460	0.3434	4.845	0.1780	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56
10-1469+15	1.460	0.3564	4.845	0.1780	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56
10-1470	1.782	0.3419	4.840	0.1833	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56
10-1470+15	1.782	0.3569	4.840	0.1833	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56
10-1478	1.500	0.3115	4.939	0.2457	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 34
10-1478+3	1.500	0.3145	4.939	0.2457	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 34
10-1478+15	1.500	0.3265	4.939	0.2457	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 34
10-1479	1.910	0.3115	4.912	0.2457	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34
10-1479+3	1.910	0.3145	4.912	0.2457	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34
10-1480	1.425	0.3413	4.736	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 68,73,82 ISU 19,22
10-1480+3	1.425	0.3443	4.736	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 68,73,82 ISU 19,22
10-1480+15	1.425	0.3563	4.736	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 68,73,82 ISU 19,22
10-1481	1.718	0.3412	4.705	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73,82 ISU 19,22
10-1481+3	1.718	0.3442	4.705	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73,82 ISU 19,22
10-1481+15	1.718	0.3563	4.705	0.2591	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73,82 ISU 19,22
10-1482S	1.496	0.3718	5.108	0.2760	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 167
10-1483S	1.653	0.3719	5.108	0.2750	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 167
10-1484	1.811	0.3413	5.108	0.2752	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 167,169
10-1484+15	1.811	0.3413	5.108	0.2752	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 167,169
10-1485S	1.378	0.3136	4.193	0.1610	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 36
10-1486	1.614	0.3143	4.193	0.1610	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 36
10-1486+3	1.614	0.3173	4.193	0.1610	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 36
10-1486+15	1.614	0.3293	4.193	0.1610	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 36
10-1504	1.560	0.3420	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1504+3	1.560	0.3450	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1504+15	1.560	0.3570	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1504S	1.560	0.3420	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 78
10-1504+30	1.560	0.3720	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1505	1.781	0.3420	4.750	0.2400	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1505+3	1.781	0.3450	4.750	0.2400	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1505+15	1.781	0.3570	4.750	0.2400	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1505+30	1.781	0.3450	4.750	0.2400	44	SB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 77
10-1518	1.968	0.3413	5.104	0.2760	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 167
10-1527	1.380	0.3414	4.807	0.3779	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 20
10-1527+3	1.380	0.3444	4.807	0.3779	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 20
10-1527+15	1.380	0.3564	4.807	0.3779	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 20
10-1528	1.610	0.3419	4.787	0.3779	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 20
10-1528+3	1.610	0.3449	4.787	0.3779	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 20
10-1528+15	1.610	0.3569	4.787	0.3779	44	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 20
10-1535	1.371	0.3125	4.615	0.2803	44	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 43 MAZ 36
10-1536	1.661	0.3130	4.615	0.2217	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 43 MAZ 36
10-1536+3	1.661	0.3130	4.615	0.2217	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 43 MAZ 36
10-1536+15	1.661	0.3280	4.615	0.2217	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 43 MAZ 36
10-1537	1.451	0.3414	4.942	0.4811	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 81
10-1537+3	1.451	0.3444	4.942	0.4811	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 81
10-1537+15	1.451	0.3564	4.942	0.4811	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 81
10-1538	1.782	0.3420	4.942	0.3929	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 81
10-1538+3	1.782	0.3450	4.942	0.3929	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 81
10-1538+15	1.782	0.3570	4.942	0.3929	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 81
10-1542	1.595	0.3720	5.670	0.2469	37	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 118,123
10-1542S	1.595	0.3720	5.680	0.2469	37	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 118,123
10-1543	1.877	0.3719	5.687	0.2740	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 118,123
10-1545	1.339	0.3152	5.271	0.3250	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 14
10-1545+15	1.339	0.3152	5.271	0.3250	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 14
10-1546	1.535	0.3163	5.383	0.3600	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 14
10-1546+15	1.535	0.3163	5.383	0.3600	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 14
10-1547	1.654	0.3419	4.982	0.4000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 124
10-1548	1.976	0.3419	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 121,124
10-1548+3	1.976	0.3449	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 121,124
10-1548+15	1.976	0.3569	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 121,124
10-1548S	1.976	0.3419	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 121,124
10-1548S+3	1.976	0.3449	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 121,124
10-1550	1.500	0.3132	4.355	0.1870	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 64
10-1550+3	1.500	0.3152	4.355	0.1870	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 64
10-1550+15	1.500	0.3282	4.355	0.1870	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 64
10-1551	1.720	0.3135	4.394	0.2421	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 64
10-1551+3	1.720	0.3165	4.394	0.2421	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 64
10-1551+15	1.720	0.3285	4.394	0.2421	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 64
10-1552	1.394	0.3117	4.522	0.2579	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26,37
10-1552+15	1.394	0.3267	4.522	0.2579	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26,37
10-1553	1.599	0.3122	4.499	0.3543	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26,37
10-1554	1.394	0.3117	4.523	0.2579	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26,38
10-1555	1.598	0.3128	4.499	0.3543	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 26,38
10-1556	1.500	0.3115	4.940	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1556+3	1.500	0.3145	4.940	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1556+15	1.500	0.3265	4.940	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1556+30	1.500	0.3415	4.940	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1557	1.910	0.3115	4.912	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1557+3	1.910	0.3145	4.912	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1557+15	1.910	0.3265	4.912	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1557+30	1.910	0.3415	4.912	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1558	1.299	0.3405	4.729	0.1311	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 108,122
10-1559	1.535	0.3417	4.823	0.2370	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 108,122
10-1559+15	1.535	0.3567	4.823	0.2370	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 108,122
10-1560	1.425	0.3136	4.736	0.2138	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 68,73
10-1560+3	1.425	0.3176	4.736	0.2138	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 68,73
10-1560+15	1.425	0.3286	4.736	0.2138	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 68,73
10-1561	1.718	0.3140	4.706	0.2138	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73
10-1561+3	1.718	0.3170	4.706	0.2138	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73
10-1561+15	1.718	0.3290	4.706	0.2138	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1568	1.457	0.3132	5.165	0.2799	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 41,49
10-1568+3	1.457	0.3162	5.165	0.2799	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 41,49
10-1568+15	1.457	0.3282	5.165	0.2799	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 41,49
10-1569	1.693	0.3136	5.456	0.2580	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 41,49
10-1569+15	1.693	0.3136	5.456	0.2580	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 41,49
10-1578S	1.720	0.3716	5.355	0.2200	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 11 GM 189
10-1578SP	1.720	0.3716	5.355	0.220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 11 GM 189
10-1591	1.500	0.3133	4.541	0.1870	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 64
10-1591+3	1.500	0.3163	4.541	0.1870	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 64
10-1591+15	1.500	0.3283	4.541	0.1870	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 64
10-1592	1.720	0.3135	4.591	0.2421	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 64
10-1592+15	1.720	0.3285	4.591	0.2421	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 64
10-1593	1.496	0.3405	4.713	0.1310	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 122,131
10-1593+15	1.496	0.3555	4.713	0.1310	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 122,131
10-1594	1.772	0.3417	4.799	0.2370	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 122,131
10-1594+15	1.772	0.3567	4.799	0.2370	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 122,131
10-1597	1.500	0.3414	4.787	0.3779	45	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 26,33 MAZ 24
10-1597+3	1.500	0.3444	4.787	0.3779	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 26,33 MAZ 24
10-1597+15	1.500	0.3564	4.787	0.3779	45	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 26,33 MAZ 24
10-1598	1.735	0.3419	4.787	0.3779	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 26,33 MAZ 24
10-1598+3	1.735	0.3449	4.787	0.3779	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 26,33 MAZ 24
10-1598+15	1.735	0.3569	4.787	0.3779	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 26,33 MAZ 24
10-1646S	1.500	0.3719	4.923	0.2890	46	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 1,7,10 GM 65,127,136,154
10-1664	1.654	0.3138	5.081	0.2362	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 92 GM 103
10-1665	1.772	0.3138	5.084	0.2360	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 92 GM 103
10-1670	1.476	0.3116	4.974	0.2670	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 54,65
10-1671	1.791	0.3127	4.949	0.2620	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 54,65
10-1673	1.398	0.2748	4.331	0.1756	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 55
10-1674	1.182	0.2743	4.311	0.1759	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 55
10-1675	1.617	0.3716	4.995	0.4087	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 95
10-1675+5	1.617	0.3766	4.995	0.4087	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 95
10-1675+15	1.617	0.3866	4.995	0.4087	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 95
10-1694	1.842	0.3718	5.742	0.2449	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 112
10-1694+15	1.842	0.3868	5.742	0.2449	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 112
10-1698	1.339	0.2737	4.622	0.4980	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86
10-1698+3	1.339	0.2767	4.622	0.4980	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86
10-1698+15	1.339	0.2887	4.622	0.4980	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86
10-1698S	1.339	0.2737	4.622	0.4980	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 116
10-1699	1.752	0.2750	4.622	0.4988	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1699+3	1.752	0.2780	4.622	0.4988	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1699+15	1.752	0.2900	4.622	0.4988	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1699S	1.752	0.2750	4.622	0.4990	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1877	1.541	0.3414	5.070	0.4810	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 81,92
10-1701	1.842	0.3419	5.070	0.3930	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 81,92
10-1702	1.260	0.2739	4.100	0.1591	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 81
10-1703	1.437	0.2742	4.091	0.1697	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 81
10-1704	1.457	0.3132	5.165	0.2098	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49
10-1705	1.732	0.3136	5.457	0.1889	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49
10-1706	1.142	0.2335	3.568	0.1460	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 104,123
10-1707	1.308	0.2335	4.169	0.1860	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 123
10-1708	1.181	0.2740	4.578	0.4560	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 73,88
10-1709	1.456	0.2750	5.337	0.6530	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 73,88
10-1710	1.490	0.3408	4.727	0.2980	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 80,99
10-1710+15	1.490	0.3558	4.727	0.2980	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 80,99
10-1711	1.710	0.3407	4.726	0.2972	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 80,99
10-1711+3	1.710	0.3437	4.726	0.2972	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 80,99
10-1712	1.378	0.2733	4.516	0.1770	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 55
10-1712+15	1.378	0.2883	4.516	0.1770	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 55
10-1713	1.142	0.2722	4.959	0.2689	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 50,55,69 VOK 54
10-1714	1.920	0.3115	4.906	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 68,84,95

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1714+3	1.920	0.3145	4.906	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 68,84,95
10-1714+15	1.920	0.3265	4.906	0.1559	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 68,84,95
10-1715	1.624	0.3115	4.920	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 68,84,95
10-1715+3	1.624	0.3145	4.920	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 68,84,95
10-1715+15	1.624	0.3265	4.920	0.1559	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 68,84,95
10-1723	2.083	0.3419	5.175	0.3400	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 124
10-1726	1.437	0.2748	4.325	0.1756	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 55,56,57
10-1727	1.238	0.2745	4.309	0.1776	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 55,56,57
10-1728	1.260	0.2356	4.520	0.3570	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 35 MAZ 30
10-1729	1.023	0.2346	4.545	0.3540	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 35 MAZ 30
10-1730	1.370	0.2340	4.399	0.4704	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 19,33 MIT 10
10-1731	1.201	0.2328	4.324	0.4744	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 19,33 MIT 10
10-1735	1.520	0.3132	4.713	0.2004	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 99
10-1736	1.732	0.2742	5.465	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49,51 ISU 9
10-1736+3	1.732	0.2742	5.465	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49,51 ISU 9
10-1736+15	1.732	0.2892	5.465	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49,51 ISU 9
10-1737	1.457	0.2738	5.142	0.2220	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49,51 ISU 9
10-1737+3	1.457	0.2738	5.142	0.2220	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49,51 ISU 9
10-1737+15	1.457	0.2888	5.142	0.2220	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49,51 ISU 9
10-1739	1.229	0.2335	4.188	0.1860	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 104
10-1740	1.580	0.3704	5.742	0.2449	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 112
10-1741	1.309	0.2340	4.525	0.3060	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 18
10-1742	1.130	0.2328	4.614	0.2460	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 18
10-1743	1.735	0.2750	4.787	0.3410	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 26,31 MAZ 24,29
10-1744	1.500	0.2740	4.807	0.3410	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 26,31 MAZ 24,29
10-1744+3	1.500	0.2770	4.807	0.3410	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 26,31 MAZ 24,29
10-1744+15	1.500	0.2890	4.807	0.3410	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 26,31 MAZ 24,29
10-1745	1.260	0.2376	3.823	0.2390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 19 MAZ 16
10-1746	1.102	0.2369	3.807	0.2382	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 19 MAZ 16
10-1754	1.595	0.3719	5.670	0.2470	38	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 123
10-1757	1.870	0.3715	6.160	0.2831	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 112,126
10-1758	1.693	0.3704	6.160	0.2831	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 112,126
10-1780S	1.535	0.3718	5.112	0.2759	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 167,169
10-1781	1.920	0.3115	5.728	0.2555	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 112
10-1782	1.624	0.3105	5.743	0.2555	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 112
10-1785	1.680	0.3122	5.805	0.3409	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 123
10-1786	1.680	0.3122	5.799	0.2909	37	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 123
10-1787	1.378	0.2356	4.510	0.3571	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 42 MAZ 35
10-1788	1.181	0.2346	4.546	0.3543	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 42 MAZ 35
10-1789	1.861	0.2750	4.840	0.1224	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56,65
10-1790	1.782	0.2750	4.840	0.1224	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56
10-1791	1.461	0.2740	4.845	0.1169	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 56,65
10-1792	1.781	0.3420	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 78
10-1802	1.332	0.2740	5.730	0.3626	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 27
10-1803	1.152	0.2733	5.661	0.4307	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 27
10-1806	1.840	0.3412	4.881	0.2560	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 118,136
10-1807S	1.500	0.3413	4.920	0.2890	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GMM 10 GM 115,118,136,154
10-1807	1.500	0.3413	4.920	0.2890	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 115,118,136,154 ISU 29
10-1809	1.500	0.3413	4.904	0.2890	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 154
10-1810	1.718	0.3139	4.713	0.1839	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 74,82
10-1810+15	1.718	0.3289	4.713	0.1839	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 74,82
10-1811	1.425	0.3132	4.736	0.1890	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 74,82
10-1811+3	1.425	0.3162	4.736	0.1890	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 74,82
10-1811+15	1.425	0.3282	4.736	0.1890	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 74,82
10-1832C	1.654	0.3419	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 121
10-1858	1.800	0.3134	4.721	0.1988	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 99
10-1862	1.654	0.3137	5.081	0.2440	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 103
10-1870	1.791	0.3128	4.949	0.0960	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 54
10-1901	1.437	0.2734	4.516	0.1766	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 50,55,69 VOK 54
10-1902	1.732	0.2746	5.285	0.2070	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49,51 ISU 9

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1902+3	1.732	0.2776	5.285	0.2070	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49,51 ISU 9
10-1902+15	1.732	0.2896	5.285	0.2070	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 49,51 ISU 9
10-1903	1.457	0.2738	5.000	0.2234	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49,51 ISU 9
10-1903+3	1.457	0.2768	5.000	0.2234	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49,51 ISU 9
10-1903+15	1.457	0.2888	5.000	0.2234	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 49,51 ISU 9
10-1904	1.791	0.3128	5.021	0.2616	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 54,65
10-1905	1.476	0.3116	5.045	0.2656	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 54,65
10-1913	1.811	0.2745	4.524	0.4170	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 62 LAN 2 MAZ 40
10-1914	1.535	0.2739	4.524	0.5740	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 62 LAN 2 MAZ 40
10-1916	1.910	0.3110	4.911	0.1335	46	3G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1916+3	1.910	0.3140	4.911	0.1335	46	3G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1916+15	1.910	0.3260	4.911	0.1335	46	3G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1917	1.500	0.3108	4.939	0.1331	46	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1917+3	1.500	0.3138	4.939	0.1331	46	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1917+15	1.500	0.3258	4.939	0.1331	46	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 34,70
10-1919	1.457	0.2722	4.528	0.4200	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 61,78 MIT 30,32
10-1918	1.918	0.2734	4.463	0.3710	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 61,78 MIT 30,32
10-1920	1.331	0.2340	4.257	0.2685	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 41
10-1921	1.094	0.2329	4.178	0.2716	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 41
10-1924	1.752	0.2750	4.752	0.4990	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1924S	1.752	0.2750	4.752	0.4990	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1925	1.418	0.2740	4.681	0.4990	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1925S	1.418	0.2740	4.681	0.4990	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 71,86,116
10-1929	1.760	0.3139	4.684	0.1843	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 74,82
10-1931	1.940	0.3410	4.881	0.2605	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 115,154 ISU 29
10-1934	1.890	0.3136	4.869	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 129,143 ISU 32 SAA 11
10-1934S	1.890	0.3136	4.869	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 129,143
10-1935	1.550	0.3136	4.915	0.2030	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 129,143,154,160 ISU 32 SAA 11,12
10-1935S	1.550	0.3136	4.915	0.2030	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 129,143,160 ISU 32
10-1936	1.457	0.3154	5.119	0.177	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 22
10-1937	1.141	0.2320	4.258	0.1360	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 61
10-1938	1.258	0.2350	3.665	0.1230	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 49
10-1939S	1.062	0.2346	3.661	0.1200	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 49
10-1941	1.396	0.2333	4.227	0.1300	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 61
10-1949	1.272	0.2349	3.797	0.2760	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 38
10-1950	1.081	0.2344	3.772	0.2755	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 38
10-1991	1.309	0.2340	4.513	0.1830	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 18
10-1992	1.130	0.2329	4.614	0.1360	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 18
10-1993	1.890	0.2734	4.969	0.1520	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 54,65
10-1994	1.398	0.2722	5.023	0.1690	45	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 54,65
10-1997	1.382	0.2348	4.026	0.2350	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 45,48,60
10-1998	1.457	0.2347	4.149	0.2460	44	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 66,85,109 ISU 18,25,28 SAA 10
10-1999	1.201	0.2343	4.246	0.2450	44	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 66,85,109 ISU 18,25,28 SAA 10
10-2006	1.378	0.2156	4.073	0.1840	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 21,25,30 MAZ 20,26,27
10-2007	1.181	0.2150	4.120	0.1770	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 21,25,30 MAZ 20,26,27
10-2008	1.370	0.2340	4.398	0.3620	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 33
10-2009	1.120	0.2330	4.325	0.3558	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 33
10-2010S	1.185	0.2343	3.975	0.2360	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 45,48,60 SAA 3
10-2014	1.299	0.2755	4.907	0.2990	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 93,106
10-2014+10	1.299	0.2855	4.907	0.2990	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 93,106
10-2015	1.299	0.2750	4.892	0.2980	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 93
10-2015+10	1.299	0.2850	4.892	0.2980	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 93
10-2035	1.120	0.2329	4.324	0.3560	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 33
10-2040S	1.142	0.2340	3.633	0.1260	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAE 4,5 GM 47,72,77 ISU 10 SAA 6,8 SUZ 9
10-2044	1.736	0.3163	5.255	0.2470	45.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 22
10-2045	1.551	0.3126	4.915	0.2070	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 160
10-2046	1.661	0.2750	4.637	0.2210	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 43 MAZ 36
10-2047	1.369	0.2740	4.615	0.2800	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 43 MAZ 36
10-2053	1.426	0.2335	4.408	0.2460	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 86,120,123
10-2054	1.103	0.2335	3.678	0.2470	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 86,104,120,123

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QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-2057	1.718	0.3139	4.682	0.2141	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73
10-2057+15	1.718	0.3289	4.682	0.2141	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73
10-2058	1.425	0.3149	4.716	0.2141	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73
10-2058+15	1.425	0.3299	4.716	0.2141	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 68,73
10-2076	1.347	0.2335	4.408	0.2460	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 104
10-2101	2.187	0.3720	5.225	0.2160	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 12, GM 199
10-2103	2.000	0.3128	4.929	0.1510	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 90
10-2118	1.331	0.2356	4.618	0.3460	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 72,87,117
10-2119	1.476	0.2346	4.583	0.4130	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 72,87,117
10-2126S	1.721	0.3720	5.400	0.2180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GMM 12 GM 199
10-2172	1.760	0.3138	4.684	0.1840	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 84
10-2173	1.425	0.3132	4.757	0.1900	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 84
10-2175	1.299	0.2738	4.975	0.5210	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 175
10-2176	1.220	0.2730	4.963	0.5200	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 175
10-2177	1.339	0.2153	4.392	0.2620	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 27 TOY 16
10-2178S	1.142	0.2150	4.398	0.2510	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 27 TOY 16
10-2179	1.339	0.2737	5.058	0.3570	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 101
10-2180	1.102	0.2737	5.059	0.3600	37	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 101
10-2181	1.443	0.2745	3.910	0.1945	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 39
10-2182S	1.234	0.2745	3.812	0.1945	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 39
10-2192	1.378	0.1955	3.999	0.4370	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 60
10-2193	1.215	0.1952	3.989	0.4350	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 60
10-2194	1.095	0.2165	3.795	0.1340	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	KIA 1
10-2195	0.980	0.2165	3.759	0.1320	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	KIA 1
10-2196	1.240	0.2362	4.051	0.1700	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	KIA 7
10-2197	1.063	0.2362	3.996	0.1670	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	KIA 7
10-2220	1.551	0.3115	4.842	0.1510	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 90
10-2234	1.189	0.2756	4.095	0.1181	45.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 40 MBZ 3
10-2235	1.120	0.2756	4.108	0.1201	45.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 40 MBZ 3
10-2237	1.969	0.3523	5.549	0.4508	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 128 ISU 30,33
10-2238	1.654	0.3516	5.537	0.4504	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 128 ISU 30,33
10-2239	1.830	0.3522	5.555	0.4520	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 128 ISU 30,33
10-2240	1.004	0.1957	3.461	0.1380	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 6
10-2241	1.205	0.1957	3.514	0.1399	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 6
10-2245	1.378	0.2156	3.640	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 42 JAG 1
10-2246	1.185	0.2153	3.614	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 42 JAG 1
10-2247	1.124	0.2345	3.999	0.1740	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 21
10-2248S	1.073	0.2337	3.982	0.1730	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 21
10-2249	1.193	0.2345	4.032	0.1740	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAE 3
10-2250S	1.021	0.2337	4.014	0.1730	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAE 3
10-2265	1.476	0.2346	4.583	0.4134	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 72,87
10-2267	2.000	0.3136	4.869	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 129,143,160
10-3002	1.287	0.2153	4.303	0.3350	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 10 REN 2
10-3003	1.102	0.2148	4.240	0.3425	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 10 REN 2
10-3003I	1.102	0.2148	4.240	0.3425	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 10 REN 2
10-03004	1.106	0.2348	3.835	0.1100	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 3
10-03005	0.949	0.2344	3.917	0.1200	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 3
10-03007	1.220	0.2756	4.098	0.2300	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOL 6,8,12,13
10-03008	1.063	0.2756	4.067	0.2300	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOL 6,8,12,13
10-03029	1.465	0.235	3.798	0.188	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 55,59,65 SUZ 17
10-03030	1.236	0.234	3.702	0.192	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 55,59,65 SUZ 17
10-03031	1.378	0.2148	4.295	0.122	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 32,39,40
10-03032	1.181	0.2148	4.291	0.120	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 32,39,40
10-03033	1.402	0.2165	4.354		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAE 1 GM 4
10-03034	1.252	0.2165	4.346	0.215	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAE 1 GM 4
10-03035	1.317	0.2155	4.337	0.165	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REN 5
10-03036	1.139	0.2142	4.287		45	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REN 5
10-03037	1.082	0.2160	3.772		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 1
10-03038	0.889	0.2165	3.772		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 1
10-3039	1.100	0.2365	4.025	0.2200	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 19



# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-3040					45	3G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 19
10-3043	0.9212	0.2153	3.955	0.1710	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 1
10-3044	1.067	0.2142	3.943	0.1670	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 1
10-3045	1.082	0.1950	3.960	0.092	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 31
10-3046	1.227	0.1950	3.994	0.101	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	GM 31
10-3047	1.201	0.2144	4.065	0.177	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 13
10-3048	1.378	0.2150	4.070	0.177	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 13
10-3049	1.417	0.2360	3.547		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	SUB 14
10-3050	1.260	0.2360	3.579		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	SUB 14
10-3062	1.083	0.215	4.659		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HON 13
10-3063	0.906	0.214	4.629		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HON 13
10-3064	1.256	0.2155	4.594		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 23
10-3065	1.146	0.236	3.614	0.216	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 9 KIA 4
10-3074	1.196	0.2750	4.039	0.197	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FIA 7
10-3075	1.175	0.2745	4.045	0.184	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FIA 7
10-3076	1.417	0.3140	3.815	0.141	45	3G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOK 38
10-3077	1.240	0.3125	3.815		45	3G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOK 38
10-3078	1.417	0.2745	3.540	0.087	45	3G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOK 38
10-3079	1.237	0.274	3.532	0.092	45	3G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOK 20,38
10-3080	1.336	0.236	4.382	0.215	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MIT 21
10-3081	1.200	0.2345	4.469	0.216	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MIT 21
10-3082	1.437	0.234	4.347	0.249	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MIT 31
10-3083	1.260	0.2345	4.400	0.257	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MIT 31
10-3086	1.336	0.215	4.187	0.218	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 21,33
10-3087	1.093	0.215	4.143	0.220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 21,33
10-3088	1.476	0.215	4.186	0.262	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 42
10-3089	1.240	0.216	4.200	0.268	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 42
10-3094	1.331	0.235	4.094	0.230	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 28
10-3095	1.102	0.2348	4.011	0.2177	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 28,47
10-3096	1.273	0.2353	4.093	0.2204	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 39
10-3097	1.102	0.2348	4.010	0.2181	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 39,48
10-3102	1.600	0.234	4.298	0.224	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 9
10-3103	1.337	0.236	4.325	0.242	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 9
10-3180	1.402	0.2354	3.827	0.1851	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 42 SUZ 12
10-3181	1.209	0.2350	3.890	0.1851	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 42 SUZ 12
10-3182	1.060	0.236	3.799	0.166	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 53, 58
10-3183	1.177	0.236	3.736	0.162	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 53, 58
10-3186	1.578	0.3138	5.118		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 19
10-3187	1.338	0.314	5.106		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 19
10-3188	1.338	0.3127	5.069	0.441	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBZ 8
10-3189	1.496	0.315	6.006	0.323	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBZ 8
10-3190	1.358	0.235	3.907		45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 9
10-3191	1.102	0.234	3.907		45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 9
10-3198	1.433	0.212	4.085		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 37, 41
10-3199	1.222	0.212	4.440		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 37, 41
10-3200	1.300	0.2735	4.237	0.355	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ISU 21
10-3201	1.183	0.273	4.234	0.353	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ISU 21
10-3204	1.260	0.215	4.303		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 15
10-3205	1.087	0.215	4.27		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 15
10-3222	1.575	0.3124	4.646		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ISU 16
10-3223	1.401	0.3122	4.646		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ISU 16
10-3224	1.197	0.197	3.524		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MBZ 1
10-3225	1.000	0.197	3.579		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MBZ 1
10-3401	1.226	0.1955	4.613	0.398	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	GM 22
10-3402	1.083	0.1955	4.577	0.398	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	GM 22
10-09536	1.780	0.3420	4.973	0.3455	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 91
10-09536+3	1.780	0.3450	4.973	0.3455	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 91
10-09536+15	1.780	0.3570	4.973	0.3455	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 91
10-09538	1.410	0.3410	4.973	0.3825	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 91
10-09538+15	1.410	0.3425	4.973	0.3825	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 91

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-09540	1.398	0.3125	4.396	0.1805	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 5,10
10-09541	1.25	0.314	4.398	0.1900	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 5,10
10-09542	1.181	0.3420	4.280	0.1965	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 9
10-09560	1.299	0.3130	4.396	0.2040	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 10
10-09561	1.177	0.3510	4.404	0.1940	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 10
10-09571	1.579	0.3140	4.256	0.2220	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 23
10-09572	1.382	0.3130	4.264	0.2335	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 23
10-09599	1.299	0.3130	3.877	0.1120	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 18
10-09816	1.299	0.2760	4.134	0.1540	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 10
10-09658	1.496	0.3130	3.885	0.1200	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 18
10-09815	1.496	0.2758	3.996	0.1598	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	DAE 2 GM 23,28
10-09830	1.220	0.2750	3.996	0.1610	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	DAE 2 GM 23,28
10-09832	1.141	0.2750	4.134	0.1444	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 10
10-10006	1.226	0.3127	3.875	0.1160	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 11 VOK 3,4,6,12,32
10-10007	1.337	0.3135	3.886	0.1260	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 11 VOK 3,4,6,12
10-10015	1.648	0.3139	4.583	0.1190	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 20,27,40,45
10-10018	1.614	0.3141	4.457	0.1850	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 21
10-10024S	1.416	0.3138	4.451	0.1820	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 21
10-10031	1.462	0.3141	4.089	0.1590	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 3,4,5,6
10-10033S	1.188	0.3132	4.083	0.1580	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 3,4,5,6
10-10036S	1.382	0.3131	4.619	0.1220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 20,27,40,45,46
10-10037	1.419	0.3139	4.483	0.1831	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 29
10-10048	1.692	0.3142	4.543	0.1831	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 29
10-10056	1.738	0.3138	4.580	0.1130	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 46
10-10060S	1.297	0.3162	4.206	0.2209	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 12,15 MAZ 6,10,14
10-10061	1.656	0.3161	4.258	0.3370	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FOR 12,15 MAZ 6,10,14
10-10064	1.376	0.3124	4.394	0.1240	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 16,39
10-10065	1.689	0.3140	4.432	0.1280	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 16,39
10-10069	1.478	0.3142	4.922	0.1831	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 55,59
10-10070	1.811	0.3142	4.917	0.1748	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	TOY 55,56,59
10-10071	1.416	0.3138	4.290	0.2039	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 11,13
10-10072	1.615	0.3139	4.288	0.2020	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	TOY 11,13
10-10076	1.488	0.3140	4.158	0.1080	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 7,8,9
10-10080S	1.100	0.2733	4.474	0.2500	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 21
10-10082	1.339	0.2750	4.459	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 21
10-10083	1.220	0.3126	4.028	0.1180	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 7,8,9
10-10086	1.339	0.3125	4.363	0.1382	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 33 ISU 7
10-10087	1.673	0.3130	4.315	0.1402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 33 ISU 7
10-10091S	1.495	0.3125	4.252	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 39 MIT 23
10-10092	1.810	0.3135	4.331	0.1180	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CHC 39 MIT 23
10-10093	1.337	0.3120	4.301	0.1350	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 33,39 ISU 6,7
10-10094	1.588	0.3125	4.353	0.1350	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 33,39 ISU 6,7
10-10097	1.181	0.2580	3.973	0.1675	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 2,3,4 HYU 3,4 MIT 2,3
10-10098	1.340	0.2580	4.020	0.1720	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 2,3 HYU 3 MIT 2
10-10100S	1.335	0.3130	5.209	0.3500	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 34, ISU 5
10-10101S	1.535	0.3130	5.209	0.3500	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 34, ISU 5
10-10102S	1.181	0.2738	4.510	0.3000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 1,3,6
10-10103	1.417	0.2738	4.550	0.3080	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 1,3,6 SUZ 1
10-10104	1.220	0.2740	4.140	0.1799	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 11 ISU 1
10-10105	1.415	0.2742	4.140	0.1799	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 11,12 ISU 1
10-10106	1.220	0.2745	4.212	0.2360	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 13 TOY 4,8
10-10107	1.417	0.2746	4.212	0.2362	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 13 TOY 4,8
10-10112	1.377	0.2748	4.456	0.2400	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 21
10-10113S	1.181	0.2733	4.447	0.2340	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HON 21
10-10115	1.417	0.2750	4.456	0.2339	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 21
10-10116	1.437	0.2750	4.102	0.1642	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 43,46,50
10-10117	1.693	0.2760	4.102	0.1598	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 46
10-10118	1.261	0.2745	4.144	0.1961	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 2
10-10122	1.217	0.2591	4.157	0.2067	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HON 25
10-10126	1.339	0.2587	4.321	0.2000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 6,21 HYU 8,12,14,17 KIA 15 MIT 6,12,13,19

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-10128	1.201	0.2575	4.319	0.2000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 6,21 HYU 8,12,14,17 KIA 15 MIT 6,12,13,19
10-10130	1.502	0.3143	4.390	0.1618	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	REN 3,4
10-10131S	1.281	0.3138	4.383	0.1610	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	REN 3,4
10-10136	1.380	0.2586	4.000	0.1697	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 4 HYU 4 MIT 3
10-10137	1.122	0.2353	3.681	0.1835	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 7
10-10138	0.965	0.2351	3.699	0.1783	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 7
10-10139	1.654	0.3137	3.866	0.1587	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 12 MIT 7
10-10140	1.339	0.3125	3.763	0.1591	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 12 MIT 7
10-10141	1.693	0.3136	4.323	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 20 MIT 8,11
10-10142	1.378	0.3126	4.277	0.1386	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 20 MIT 8,11
10-10143	1.811	0.3137	4.195	0.1378	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 29 HYU 16 MIT 17
10-10144	1.496	0.3126	4.141	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 29 HYU 16 MIT 17
10-10145	1.810	0.3134	4.250	0.1528	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 39 MAZ 31 MIT 23
10-10146	1.493	0.3125	4.170	0.1941	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 39 MAZ 31 MIT 23
10-10146S	1.493	0.3120	4.170	0.1941	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 39 MIT 23
10-10147	1.693	0.3137	4.024	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 44 HYU 22 MIT 24
10-10148	1.378	0.3126	4.012	0.1386	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 44 HYU 22 MIT 24
10-10153	1.103	0.2735	4.120	0.2150	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 2
10-10154	1.476	0.2740	4.065	0.1630	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 6 MAZ 7
10-10155	1.259	0.2740	4.065	0.1673	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 6 MAZ 7
10-10157	1.220	0.2354	4.148	0.1689	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 8 KIA 6 MAZ 8
10-10158S	1.555	0.315	3.618	0.1535	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 14,24,35,37,38,41
10-10159	1.031	0.2350	4.150	0.1690	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 8 KIA 6 MAZ 8
10-10162	1.280	0.2747	4.559	0.3138	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 23,24 MAZ 22,23
10-10163	1.339	0.2745	4.575	0.3154	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 23 MAZ 22
10-10164	1.339	0.2745	4.575	0.3100	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 24 MAZ 23
10-10165	1.319	0.2354	3.740	0.1870	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 58
10-10166	1.102	0.2350	3.819	0.1783	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 58
10-10167	1.378	0.2350	3.818	0.1780	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 44,46
10-10168S	1.180	0.2350	3.816	0.1760	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 44,46
10-10169	1.378	0.2151	3.313	0.2010	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 2,3
10-10170	1.102	0.2144	3.311	0.2030	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 2
10-10172	1.441	0.2744	4.550	0.3110	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 20 SUZ 4
10-10173	1.278	0.2736	4.506	0.3031	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 20 SUZ 4
10-10173S	1.278	0.2736	4.506	0.2913	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 20 SUZ 4
10-10176	1.201	0.2354	3.924	0.1799	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 14 TOY 9
10-10177	1.004	0.2352	3.926	0.1843	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 14 TOY 9
10-10182	1.496	0.2760	3.983	0.1598	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 15
10-10183	1.222	0.2749	3.983	0.1598	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 15
10-10186	1.181	0.2593	4.439	0.2087	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 5,9
10-10187S	1.142	0.2583	4.481	0.2051	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 5,9
10-10188	1.063	0.2590	4.437	0.2150	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 8,10
10-10189	1.260	0.2583	4.481	0.1670	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 8
10-10190	1.142	0.2159	4.526	0.1970	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 11,15
10-10191	0.984	0.2148	4.675	0.2080	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 11,15
10-10192	1.180	0.2591	4.747	0.2500	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 24,26
10-10193	1.376	0.2730	4.762	0.2350	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 24,26
10-10195	1.299	0.2594	4.110	0.2094	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 27,33,42,44
10-10196	1.102	0.2580	4.171	0.2055	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 25,27,28
10-10197	1.339	0.2161	4.411	0.1160	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 34,41
10-10198	1.142	0.2148	4.862	0.2010	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 34
10-10206	1.339	0.2592	4.080	0.1992	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 38
10-10207	1.142	0.2579	4.044	0.1965	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 38
10-10213	1.645	0.2760	4.100	0.1598	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 43,46,50
10-10216	1.575	0.3125	4.560	0.1783	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 52 ISU 11
10-10217	1.339	0.3115	4.560	0.1783	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 52 ISU 11
10-10218	1.663	0.3130	4.357	0.1382	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 53 ISU 8,13
10-10219	1.736	0.3130	4.280	0.1382	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 43 ISU 14,17
10-10220S	1.413	0.3123	4.340	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 53 ISU 8,13
10-10221S	1.453	0.3123	4.260	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 43 ISU 14,17

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-10224	1.181	0.2153	3.632	0.1500	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 16,26
10-10225	0.945	0.2146	3.646	0.1510	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 16
10-10226	1.441	0.2743	3.989	0.2106	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 39
10-10227S	1.232	0.2736	3.892	0.2138	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 39
10-10228	1.339	0.2352	3.991	0.1870	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 34
10-10229	1.181	0.2343	4.028	0.1874	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 34
10-10234	1.298	0.2350	3.990	0.1701	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 13 KIA 9 MAZ 12
10-10235	1.103	0.2350	3.997	0.1693	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 13 KIA 9 MAZ 12
10-10236	1.732	0.3164	4.405	0.2476	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KIA 11 MAZ 17,21
10-10237	1.417	0.3162	4.397	0.2492	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KIA 11 MAZ 17,21
10-10243	1.312	0.2746	4.435	0.1909	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 32
10-10244	1.417	0.2743	4.482	0.1917	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MAZ 32
10-10245	1.299	0.2744	4.773	0.2126	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 33
10-10246S	1.496	0.3160	4.824	0.2106	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 33
10-10247	1.366	0.2350	4.536	0.3201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 34
10-10248	1.217	0.2350	4.747	0.3189	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 34
10-10251	1.457	0.2747	4.674	0.2016	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 7
10-10252	1.181	0.2736	4.648	0.1378	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 7
10-10255	1.460	0.2744	4.586	0.2030	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 13
10-10256	1.185	0.2735	4.569	0.1360	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 13
10-10257	1.220	0.2350	3.508	0.1787	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 14
10-10258	1.102	0.2344	3.515	0.1780	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 14,25
10-10259	1.142	0.2349	4.470	0.2531	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 15
10-10260S	1.299	0.2581	4.576	0.2272	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 15
10-10262S	1.220	0.2739	3.970	0.1181	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 19
10-10263	1.339	0.2348	3.499	0.1772	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 25
10-10266	1.654	0.3140	4.981	0.2224	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 29
10-10267	1.496	0.3130	5.015	0.2220	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 29
10-10268	1.658	0.3140	4.899	0.2228	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 28,36,37
10-10269	1.500	0.3130	4.940	0.2291	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 28,36,37
10-10269+3	1.500	0.3160	4.940	0.2291	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 28,36,37
10-10269+15	1.500	0.3280	4.940	0.2291	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 28,36,37
10-10270	1.617	0.2744	4.224	0.2287	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 31
10-10271	1.381	0.2737	4.261	0.2319	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 30,31
10-10272	1.578	0.2744	4.208	0.2299	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 30
10-10273	1.339	0.2745	4.780	0.2311	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 38
10-10274S	1.575	0.3130	4.820	0.2295	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 38
10-10275	1.575	0.3140	4.609	0.1862	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 41
10-10276S	1.339	0.3131	4.606	0.1854	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 41
10-10277	1.732	0.3139	4.500	0.1201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 46,47
10-10278S	1.378	0.3130	4.537	0.1154	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 46,47
10-10279	1.535	0.3138	4.613	0.1118	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 48
10-10280S	1.260	0.3131	4.616	0.1161	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 48
10-10281	1.657	0.2744	4.945	0.1748	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 41,47 NIS 50,54
10-10282S	1.382	0.3137	4.901	0.1728	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 41,47 NIS 50,54
10-10282	1.382	0.3137	4.901	0.1728	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 41 NIS 50,54
10-10284	1.339	0.2354	4.060	0.1780	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 51
10-10285S	1.164	0.2343	4.081	0.1799	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 51
10-10286S	1.299	0.3136	4.032	0.2559	46	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NIS 61
10-10299	1.280	0.2344	3.976	0.1819	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 9
10-10300	1.102	0.2344	3.983	0.1827	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SUB 9
10-10302	1.181	0.2736	4.509	0.3067	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SUZ 1
10-10304	0.944	0.2143	4.121	0.2010	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 2
10-10305	1.339	0.2353	3.743	0.1815	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 48,53
10-10306S	1.073	0.2352	3.727	0.1846	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 48,53
10-10307	1.417	0.3137	3.933	0.1618	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 1,2
10-10308	1.142	0.3137	3.934	0.1630	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOY 1,2
10-10309	0.945	0.2354	3.612	0.2917	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 5
10-10310	1.181	0.2349	3.635	0.2661	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 5
10-10311	1.220	0.2352	3.636	0.2717	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 5

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QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-10314	1.181	0.2354	3.597	0.1787	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 16 TOY 10
10-10315	0.967	0.2353	3.618	0.1799	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 16 TOY 10
10-10318	1.260	0.2353	3.963	0.1803	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 25,27
10-10320S	1.063	0.2351	3.955	0.1780	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 25,27
10-10321	1.476	0.2352	4.073	0.1799	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 35,43
10-10322	1.575	0.3140	4.262	0.2787	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 23,30
10-10323	1.417	0.3140	4.272	0.2811	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOY 23,30
10-10324S	1.318	0.2350	4.054	0.1811	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 24
10-10325	1.319	0.2350	3.959	0.1811	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 24,25
10-10326S	1.140	0.2350	4.019	0.1830	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 24
10-10328	1.770	0.3134	4.480	0.1878	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 33
10-10330	1.457	0.3138	4.420	0.1890	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOY 33
10-10332S	1.299	0.2354	3.786	0.1807	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 39
10-10333	1.074	0.2352	3.788	0.1846	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 39
10-10334	1.654	0.3142	4.578	0.1776	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 44
10-10337	1.260	0.2350	3.860	0.2039	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 46
10-10338S	1.083	0.2350	3.862	0.2004	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 46
10-10339S	1.654	0.3140	4.101	0.2598	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 47
10-10340	1.378	0.3140	4.103	0.2610	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOY 47
10-10342S	1.476	0.3130	5.047	0.2319	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOY 56
10-10344	1.782	0.3141	4.428	0.1638	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REN 7
10-10345S	1.516	0.3136	4.391	0.1634	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REN 7
10-10350S	1.579	0.3138	3.596	0.1338	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 14,35
10-10351	1.575	0.3135	3.886	0.1181	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 14
10-10352S	1.311	0.3130	3.573	0.1102	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 14
10-10353S	1.264	0.2745	3.760	0.1614	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	VOK 15,26,34,36,50,56
10-10355S	1.102	0.2732	3.866	0.1732	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 26,36
10-10356S	1.305	0.3127	3.591	0.1260	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 14,24,32,33,35,37,38,41
10-10358S	1.494	0.313	3.581	0.1339	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 14,18,32,33
10-10363	1.338	0.3135	3.886	0.1181	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 11 VOK 12
10-10364S	1.227	0.3122	3.879	0.1102	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	CHC 11 VOK 12
10-10367	1.343	0.3138	4.126	0.1181	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 7
10-10369S	1.232	0.3130	4.116	0.1181	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	VOK 4,7,30
10-10370S	1.232	0.3130	4.118	0.1102	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 7,30 VOL 7
10-10373	1.651	0.2743	4.035	0.1830	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 10
10-10374S	1.415	0.2726	4.035	0.1259	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 10
10-10375	1.570	0.2755	4.035	0.1730	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 10
10-10385	1.656	0.3163	4.134	0.2051	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 40
10-10385+3	1.656	0.3193	4.134	0.2051	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 40
10-10385+15	1.656	0.3313	4.134	0.2051	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 40
10-10386	1.418	0.3153	4.138	0.1831	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 40
10-10386+15	1.418	0.3303	4.138	0.1831	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 40
10-10387	1.711	0.3163	4.092	0.2071	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 61 MAZ 39
10-10387+3	1.711	0.3193	4.092	0.2071	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 61 MAZ 39
10-10387+15	1.711	0.3313	4.092	0.2071	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 61 MAZ 39
10-10388	1.360	0.3153	4.098	0.1850	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 61 MAZ 39
10-10388+3	1.360	0.3183	4.098	0.1850	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 61 MAZ 39
10-10388+15	1.360	0.3303	4.098	0.1850	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FOR 61 MAZ 39
10-10406	1.732	0.3135	4.350	0.1929	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOL 3,4,5
10-10413	1.299	0.2583	4.481	0.1701	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 10
10-10414	1.102	0.2580	4.132	0.2055	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 33
10-10415	1.575	0.3131	5.378	0.2555	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 28 FOR 27 MIT 16
10-10416	1.339	0.3122	5.379	0.2567	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 28 FOR 27 MIT 16
10-10420	1.063	0.2351	3.876	0.1810	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 25,27
10-10421	1.260	0.2351	3.842	0.1800	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 25,27
10-10432	1.260	0.2161	4.411	0.1165	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 34
10-10434	1.299	0.2157	4.033	0.1270	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 17,19,22
10-10435	1.103	0.2148	4.037	0.1240	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 17,19,22
10-10436	1.299	0.2157	4.518	0.1790	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 51,54
10-10437	1.104	0.2146	4.635	0.2210	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 51,54

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-10473	1.417	0.2353	4.073	0.1803	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 34
10-10474	1.201	0.2351	4.091	0.1780	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 34,35,43
10-10495	1.023	0.2585	3.971	0.1638	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 5 MIT 4
10-10496	1.220	0.2584	3.969	0.1642	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 5 MIT 4
10-10497	1.299	0.2576	3.981	0.1650	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 5 MIT 4
10-10498	1.181	0.2354	4.338	0.2524	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 14 MIT 9,15
10-10499	1.063	0.2345	4.480	0.2531	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 14 MIT 9,15
10-10500	1.375	0.2588	4.186	0.2016	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 45 MIT 25,28
10-10501	1.199	0.2576	4.153	0.2031	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 45 MIT 25,28
10-10502	1.339	0.2348	3.898	0.1626	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 48 ISU 23
10-10503	1.181	0.2347	3.955	0.1606	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HON 48 ISU 23
10-10506	1.221	0.2354	3.445	0.1811	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 16,25 TOY 10,12
10-10507	0.965	0.2351	3.466	0.1811	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 16,25 TOY 10,12
10-10512	1.161	0.2350	4.088	0.1689	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KIA 5 MAZ 8
10-10513	0.927	0.2353	4.131	0.1705	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KIA 5 MAZ 8
10-10514	1.122	0.2352	3.706	0.1433	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 13
10-10515	0.909	0.2352	3.749	0.0783	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 13
10-10516	1.149	0.2154	3.630	0.2220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 6,18 SUZ 3,5
10-10517	0.986	0.2144	3.147	0.2250	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 6,18 SUZ 3,5
10-10518	1.319	0.2354	3.882	0.1811	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 51
10-10519	1.142	0.2352	3.900	0.1764	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 51
10-10520	1.272	0.2738	3.996	0.1913	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 38
10-10521	1.081	0.2732	3.967	0.1953	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 38
10-10522	1.574	0.2737	5.469	0.2374	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 37
10-10523	1.339	0.2730	5.475	0.2417	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 37
10-10524	1.181	0.2155	4.668	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 4,16,20
10-10525	1.024	0.2148	4.565	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 4,16,20,23
10-10526	1.083	0.2159	4.723	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 12
10-10534	1.299	0.2348	4.424	0.2516	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 30,31,36,46 MIT 18,22,26,29
10-10535	1.142	0.2342	4.497	0.2504	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 30,31,36,46 MIT 18,22,26,29
10-10536	0.980	0.2146	3.646	0.1512	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 16,26
10-10537	1.417	0.2350	3.829	0.1760	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 53
10-10538	1.232	0.2344	3.744	0.1830	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 53
10-10541	1.339	0.2161	4.567	0.1752	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 34,37,46,52,53 ISU 15
10-10542	1.142	0.2148	4.496	0.1752	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 34,37,46,52,53 ISU 15
10-10547	1.079	0.2348	3.898	0.1968	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 5
10-10548	1.260	0.2339	3.906	0.2401	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 5
10-10549	1.260	0.2344	3.870	0.2102	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 5
10-10550	1.260	0.2351	3.698	0.1425	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 32 MAZ 28
10-10551	1.086	0.2350	3.741	0.0591	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 32 MAZ 28
10-10552	1.339	0.2156	3.758	0.1421	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 49,52
10-10553S	1.073	0.2155	3.755	0.1398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 49,52
10-10556	1.535	0.2742	4.171	0.0672	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 43
10-10557S	1.346	0.2737	4.211	0.1180	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 43
10-10562	1.240	0.2350	3.534	0.1705	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 18 MAZ 12,15
10-10563	1.089	0.2354	3.543	0.1705	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 18 MAZ 12,15
10-10624	1.693	0.3137	4.054	0.1540	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 44 HYU 22 MIT 24
10-10625	1.378	0.3126	4.042	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 44 HYU 22 MIT 24
10-10679	1.496	0.2748	3.872	0.1400	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 61
10-10680	1.260	0.2745	3.853	0.1520	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 61
10-10695	1.299	0.2349	4.177	0.1720	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 7,8,11,13,14,15
10-10696S	1.198	0.2343	4.160	0.1710	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 7,8,11,13,14,15
10-10723	1.257	0.2339	4.031	0.2770	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 10,13
10-10724	1.081	0.2349	4.126	0.2210	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 10,13
10-10729	1.297	0.2743	4.201	0.1326	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 7,11
10-10730S	1.198	0.2737	4.184	0.1315	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BMW 7
10-10731	1.415	0.2741	3.813	0.1342	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 20
10-10732S	1.238	0.2733	3.813	0.1338	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 20
10-10733	1.555	0.2756	3.618	0.1359	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 27,29,41
10-10734S	1.295	0.2742	3.589	0.1080	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 27,29,41

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-10735	1.260	0.2155	3.485	0.1340	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 26 TOY 14
10-10736	1.082	0.215	3.491	0.1340	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 26 TOY 14
10-10737	1.354	0.2155	3.737	0.1360	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 58,60,63
10-10738S	1.142	0.2150	3.742	0.1360	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 58,60,63
10-10739	1.338	0.2347	4.088	0.1460	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 49,55 ISU 24,26
10-10740	1.142	0.2344	4.073	0.1470	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 49,55 ISU 24,26
10-10741S	1.084	0.2579	4.191	0.1830	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 44
10-10742	1.224	0.2592	4.155	0.2120	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 25,28
10-10778	1.378	0.2160	4.567	0.1815	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 83 HON 46,52,53
10-10779	1.181	0.2148	4.496	0.1815	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 83 HON 46,52,53,56
10-10780	1.220	0.2170	3.492	0.1350	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 26 TOY 14
10-10781	1.020	0.2150	3.492	0.1350	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 26 TOY 14
10-10784	1.260	0.2347	4.020	0.1260	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DAE 4,5 GM 47,72,77 ISU 10 SAA 6,8 SUZ 9
10-10786	1.299	0.2350	3.396	0.1770	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 42,63 SUZ 6,7,13,14
10-10787S	1.102	0.2341	3.382	0.1750	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 42,63 SUZ 6,7,13,14
10-10792	1.441	0.2740	3.986	0.1930	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 39
10-10793S	1.232	0.2740	3.889	0.1920	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 39
10-10794	1.339	0.2350	3.872	0.1810	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 34
10-10795	1.181	0.2340	3.909	0.1840	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 34
10-10798	1.339	0.2156	4.004	0.1350	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 59 TOY 26,32
10-10799	1.161	0.2155	3.982	0.1350	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 59 TOY 26,32
10-10803S	1.177	0.2345	4.090	0.1570	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOK 16,40,42,46
10-10804S	1.058	0.2345	4.137	0.2220	45	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VOK 16,40,42,46
10-10805S	1.177	0.2345	4.091	0.2220	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 16,40,42,46
10-10806	1.417	0.2344	4.760	0.1940	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SAA 5 SUB 9,10
10-10807	1.239	0.2340	4.790	0.2000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SAA 5 SUB 9,10
10-10808	1.260	0.2350	3.781	0.1950	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 20,21 KIA 17,18
10-10809	1.083	0.2345	3.823	0.2160	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 20,21 KIA 17,18
10-10810	1.380	0.2585	4.183	0.2020	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 23,25 KIA 21
10-10811	1.201	0.2574	4.150	0.2010	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 23,25 KIA 21
10-10812	1.110	0.2345	3.614	0.2030	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 6
10-10813	0.984	0.2339	3.638	0.2010	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 6.9 KIA 4
10-10814	1.327	0.236	4.061	0.1610	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	KIA 13
10-10815	1.140	0.236	4.094	0.1440	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	KIA 13
10-10816	1.257	0.2349	4.502	0.2720	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 13 KIA 10
10-10817	1.081	0.2339	4.598	0.2205	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	HYU 13 KIA 10
10-13006	1.299	0.2756	4.893	0.300	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 93,106
10-13013	1.830	0.3133	4.724	0.2000	SG	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 99
10-13038	1.150	0.2154	3.783	0.1358	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KIA 3
10-13039	1.013	0.2143	3.740	0.1330	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KIA 3
10-13042	1.593	0.3136	4.914	0.204	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 160,164
10-13043	1.870	0.3136	4.835	0.204	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 87,101
10-13044	1.523	0.3135	4.803	0.2040	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 87,101
10-13046	1.323	0.2343	4.252	0.246	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 69,92,109 ISU 20,27,28 SAA 10
10-13073	1.130	0.274	4.095	0.1181	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 40 MBZ 3
10-13074	1.032	0.274	4.114	0.1181	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 40 MBZ 3
10-13079	1.405	0.2349	3.815	0.1515	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 42
10-13080	1.206	0.2347	3.856	0.1535	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 42
10-13086	1.495	0.2156	4.165	0.267	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 54,57,62,64,65
10-13087	1.258	0.2155	4.345	0.2618	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 54,57,62,64,65
10-13088	1.436	0.216	4.210	0.134	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 57
10-13089	1.160	0.215	4.165	0.140	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOY 57
10-13121	1.455	0.3130	5.140	0.4173	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 141,195 ISU 31,34
10-13122	1.456	0.3120	5.128	0.4173	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 141,195 ISU 31,34
10-13139S	1.417	0.2346	4.169	0.2519	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 10
10-13140S	1.260	0.2342	4.181	0.2540	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 10
10-13161	1.299	0.2756	4.893	0.300	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 93,106
10-13179	1.525	0.2347	4.165	0.246	44	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 69,92,109 ISU 20,27,28 SAA 10
10-13182	1.339	0.2738	5.138	0.4366	37	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 106
10-13183	1.161	0.2738	5.138	0.4366	39.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 106

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-13190	1.378	0.2154	4.456	0.2024	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 13,22,32 HYU 15,18 KIA 12,16 MIT 14,20
10-13191	1.148	0.2151	4.169	0.1236	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 13,22,32 HYU 15,18 KIA 12,16 MIT 14,20
10-13194	2.050	0.3127	5.165	0.1508	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 90
10-13195	1.552	0.3126	5.139	0.1504	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 90
10-13197	1.299	0.235	3.685	0.1771	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 8,14
10-13198	1.102	0.234	3.673	0.1771	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 8,14
10-13201	1.417	0.2345	4.110	0.1693	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SAA 4,5 SUB 6,10
10-13203S	1.260	0.2343	4.120	0.1693	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SAA 4,5 SUB 6,10
10-13204	1.386	0.2348	3.984	0.3327	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 15
10-13206	2.079	0.3125	4.961	0.1535	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 99
10-13207	1.595	0.3125	4.921	0.1535	44.5	3G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHC 99
10-13211	1.384	0.2348	3.985	0.3307	44.3	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 67,71 SAA 7,9
10-13221	1.195	0.2349	3.730	0.189	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 55,56,57
10-13212	1.205	0.2344	3.748	0.3307	44.3	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 71,91 SAA 9
10-13215	1.398	0.2152	3.960	0.1220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 11
10-13216	1.200	0.2142	3.844	0.1220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 11
10-13220	1.449	0.2352	3.825	0.189	SG	45	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 55,56
10-13222	1.193	0.236	4.291	0.180	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 1,2
10-13223	0.917	0.236	4.638	0.1185	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 1,2
10-13225	1.457	0.216	3.841	0.183	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 50,55 MAZ 37,38
10-13226	1.220	0.2155	3.756	0.1831	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 50,55 MAZ 37,38
10-13230	1.142	0.2343	3.827	0.3327	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 67 SAA 7
10-13233	1.225	0.196	4.004	0.1654	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NIS 17
10-13234	1.002	0.1954	4.035	0.163	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 17
10-13239	2.165	0.3135	4.890	0.2248	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 164
10-13240	2.165	0.3135	4.870	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 160,164
10-13241S	1.589	0.3136	4.914	0.204	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 160
10-13244	2.000	0.3135	4.870	0.2040	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 129,143,154,160 ISU 32 SAA 11,12
10-13251	1.915	0.2734	4.481	0.2933	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 78
10-13252	1.457	0.2722	4.539	0.389	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 78
10-13259	1.378	0.2151	3.925	0.7933	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 13
10-13261	1.417	0.215	4.075	0.1693	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 15
10-13262	1.260	0.2147	4.063	0.1673	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUB 15
10-13263	1.535	0.2350	4.588	0.4570	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 57 VOK 52
10-13264	1.181	0.2347	4.551	0.4335	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 57 VOK 52
10-13265	1.331	0.2748	5.242	0.6988	29.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 114
10-13266	1.195	0.2748	5.242	0.6988	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 114
10-13276	1.375	0.2351	3.303	0.1575	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 10
10-13277	1.181	0.2342	3.325	0.1575	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	SUZ 10
10-13286	1.415	0.2154	4.135	0.1102	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 24,26,27 KIA 19,20,22
10-13287	1.220	0.2151	4.156	0.1102	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 24,26,27 KIA 19,20,22
10-13288	2.106	0.3127	5.425	0.1398	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 104
10-13289	1.654	0.3122	5.348	0.1398	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 104
10-13290S	2.106	0.3127	5.425	0.1398	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 104
10-13291S	1.654	0.3122	5.348	0.1398	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 104
10-13293	1.382	0.2348	4.026	0.235	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 45,60 SAA 3
10-13294	1.457	0.2356	4.719	0.3898	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 79
10-13295	1.220	0.2346	4.272	0.3366	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 79
10-13305	1.378	0.2354	4.071	0.1839	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 26
10-13306	1.181	0.2352	4.120	0.1772	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAZ 26
10-13310	1.307	0.2354	5.370	0.203	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 44,49,51
10-13311	1.189	0.235	5.364	0.203	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 44,49,51
10-13312	1.307	0.235	4.040	0.203	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 44,49,51
10-13313	1.189	0.235	4.024	0.207	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOK 44,49,51
10-13314	1.333	0.2354	4.094	0.2181	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOK 47,57
10-13321	1.181	0.196	3.819	0.225	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 3
10-13322	0.988	0.196	4.362	0.1185	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 3
10-13323	1.133	0.196	4.161	0.2135	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 4
10-13324	1.169	0.196	3.740	0.1185	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 5
10-13325	1.024	0.196	4.343	0.225	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	BMW 4,5



# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-13333	1.510	0.2346	3.962	0.3310	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 91
10-13334	1.457	0.2348	3.988	0.3327	44.25	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 91 SUZ 16
10-13335	1.205	0.2344	3.824	0.3327	44.25	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GM 67,91 SUZ 15,16
10-13336	1.417	0.2165	4.606	0.1732	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 53,56
10-13342	1.232	0.1958	4.032	0.0984	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 29
10-13343	1.083	0.1952	4.007	0.0984	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 29
10-13345S	1.220	0.2155	3.756	0.1831	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FOR 50
10-13356	1.122	0.2349	4.028	0.3602	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 47, MBZ 5
10-13357	1.000	0.2346	4.028	0.3681	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHC 47, MBZ 5
10-13358	1.417	0.2157	4.283	0.118	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 40
10-13359	1.220	0.2148	4.280	0.118	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HON 40
10-30100	1.240	0.215	3.669		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 7 KIA 2
10-30101	1.024	0.215	3.646		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 7 KIA 2
10-30102	0.925	0.215	3.918		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 2
10-30103	1.063	0.214	3.898		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HYU 2
10-30104		0.215					<input type="checkbox"/>	<input type="checkbox"/>	HYU 11,15 KIA 8,14
10-30105		0.215					<input type="checkbox"/>	<input type="checkbox"/>	HYU 11,15 KIA 8,14
10-30106	1.400	0.235	4.004		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 42
10-30107	1.197	0.2346	4.044		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 42
10-30108							<input type="checkbox"/>	<input type="checkbox"/>	CHC 1 FIA 3
10-30109							<input type="checkbox"/>	<input type="checkbox"/>	CHC 1 FIA 3
10-30110							<input type="checkbox"/>	<input type="checkbox"/>	VOK 8
10-30111							<input type="checkbox"/>	<input type="checkbox"/>	VOK 8
10-30112	1.110	0.235	4.205		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 43
10-30113	1.031	0.234	4.189		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 43
10-30114	1.102	0.1945	3.693		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 7
10-30115	0.984	0.1937	3.696		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	GM 7
10-30116	1.445	0.274	4.439		30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PEU 1
10-30117	1.150	0.274	4.433		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PEU 1
10-30118	1.220	0.234	4.060		45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 8
10-30119	1.083	0.234	4.024		45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 8
10-30120	1.496	0.234	3.994		46	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 28
10-30121	1.220	0.234	3.994		46	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GM 28
10-30122	1.260	0.274	4.470		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 49
10-30123	1.180	0.273	4.467		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NIS 49
10-30124	1.185	0.2348	3.900		45	3G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 5
10-30125	0.952	0.2344	3.996		45	3G	<input type="checkbox"/>	<input type="checkbox"/>	FOR 5
10-30126	1.232	0.2352	4.087		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PEU 2
10-30127	0.965	0.2352	4.110		45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PEU 2

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
0.889	0.2165	3.772	10-03038	1.083	0.215	4.659	10-3062	1.142	0.2344	4.073	10-10740
0.906	0.214	4.629	10-3063	1.083	0.2159	4.723	10-10526	1.142	0.2349	4.470	10-10259
0.909	0.2352	3.749	10-10515	1.083	0.234	4.024	10-30119	1.142	0.2352	3.900	10-10519
0.917	0.236	4.638	10-13223	1.083	0.2345	3.823	10-10809	1.142	0.2579	4.044	10-10207
0.9212	0.2153	3.955	10-3043	1.083	0.2350	3.862	10-10338S	1.142	0.2583	4.481	10-10187S
0.925	0.215	3.918	10-30102	1.084	0.2579	4.191	10-10741S	1.142	0.2722	4.959	10-1713
0.927	0.2353	4.131	10-10513	1.086	0.2350	3.741	10-10551	1.142	0.3137	3.934	10-10308
0.944	0.2143	4.121	10-10304	1.087	0.215	4.27	10-3205	1.146	0.236	3.614	10-3065
0.945	0.2146	3.646	10-10225	1.089	0.2354	3.543	10-10563	1.148	0.2151	4.169	10-13191
0.945	0.2354	3.612	10-10309	1.093	0.215	4.143	10-3087	1.149	0.2154	3.630	10-10516
0.949	0.2344	3.917	10-03005	1.094	0.2329	4.178	10-1921	1.150	0.2154	3.783	10-13038
0.952	0.2344	3.996	10-30125	1.095	0.2165	3.795	10-2194	1.150	0.274	4.433	10-30117
0.965	0.2351	3.466	10-10507	1.100	0.2365	4.025	10-3039	1.152	0.2733	5.661	10-1803
0.965	0.2351	3.699	10-10138	1.100	0.2733	4.474	10-10080S	1.160	0.215	4.165	10-13089
0.965	0.2352	4.110	10-30127	1.102	0.1945	3.693	10-30114	1.161	0.2155	3.982	10-10799
0.967	0.2353	3.618	10-10315	1.102	0.2144	3.311	10-10170	1.161	0.2350	4.088	10-10512
0.980	0.2146	3.646	10-10536	1.102	0.2148	4.240	10-3003	1.161	0.2738	5.138	10-13183
0.980	0.2165	3.759	10-2195	1.102	0.2148	4.240	10-30031	1.164	0.2343	4.081	10-10285S
0.984	0.1937	3.696	10-30115	1.102	0.234	3.673	10-13198	1.169	0.196	3.740	10-13324
0.984	0.2148	4.675	10-10191	1.102	0.234	3.907	10-3191	1.175	0.2745	4.045	10-3075
0.984	0.2339	3.638	10-10813	1.102	0.2341	3.382	10-10787S	1.177	0.2345	4.090	10-10803S
0.986	0.2144	3.147	10-10517	1.102	0.2344	3.515	10-10258	1.177	0.2345	4.091	10-10805S
0.988	0.196	4.362	10-13322	1.102	0.2344	3.983	10-10300	1.177	0.236	3.736	10-3183
1.000	0.197	3.579	10-3225	1.102	0.2348	4.010	10-3097	1.177	0.3510	4.404	10-09561
1.000	0.2346	4.028	10-13357	1.102	0.2348	4.011	10-3095	1.180	0.2350	3.816	10-10168S
1.002	0.1954	4.035	10-13234	1.102	0.2350	3.819	10-10166	1.180	0.2591	4.747	10-10192
1.004	0.1957	3.461	10-2240	1.102	0.2369	3.807	10-1746	1.180	0.273	4.467	10-30123
1.004	0.2352	3.926	10-10177	1.102	0.2580	4.132	10-10414	1.181	0.196	3.819	10-13321
1.013	0.2143	3.740	10-13039	1.102	0.2580	4.171	10-10196	1.181	0.2148	4.291	10-03032
1.020	0.2150	3.492	10-10781	1.102	0.2732	3.866	10-10355S	1.181	0.2148	4.496	10-10779
1.021	0.2337	4.014	10-2250S	1.102	0.2737	5.059	10-2180	1.181	0.2150	4.120	10-2007
1.023	0.2346	4.545	10-1729	1.103	0.2148	4.037	10-10435	1.181	0.2153	3.632	10-10224
1.023	0.2585	3.971	10-10495	1.103	0.2335	3.678	10-2054	1.181	0.2155	4.668	10-10524
1.024	0.196	4.343	10-13325	1.103	0.2350	3.997	10-10235	1.181	0.2340	3.909	10-10795
1.024	0.2148	4.565	10-10525	1.103	0.2735	4.120	10-10153	1.181	0.2342	3.325	10-13277
1.024	0.215	3.646	10-30101	1.104	0.2146	4.635	10-10437	1.181	0.2343	4.028	10-10229
1.031	0.234	4.189	10-30113	1.106	0.2348	3.835	10-03004	1.181	0.2346	4.546	10-1788
1.031	0.2350	4.150	10-10159	1.110	0.2345	3.614	10-10812	1.181	0.2347	3.955	10-10503
1.032	0.274	4.114	10-13074	1.110	0.235	4.205	10-30112	1.181	0.2347	4.551	10-13264
1.058	0.2345	4.137	10-10804S	1.120	0.2329	4.324	10-2035	1.181	0.2349	3.635	10-10310
1.060	0.236	3.799	10-3182	1.120	0.2330	4.325	10-2009	1.181	0.2352	4.120	10-13306
1.062	0.2346	3.661	10-1939S	1.120	0.2756	4.108	10-2235	1.181	0.2354	3.597	10-10314
1.063	0.214	3.898	10-30103	1.122	0.2349	4.028	10-13356	1.181	0.2354	4.338	10-10498
1.063	0.2345	4.480	10-10499	1.122	0.2352	3.706	10-10514	1.181	0.2580	3.973	10-10097
1.063	0.2351	3.876	10-10420	1.122	0.2353	3.681	10-10137	1.181	0.2593	4.439	10-10186
1.063	0.2351	3.955	10-10320S	1.124	0.2345	3.999	10-2247	1.181	0.2733	4.447	10-10113S
1.063	0.2362	3.996	10-2197	1.130	0.2328	4.614	10-1742	1.181	0.2736	4.509	10-10302
1.063	0.2590	4.437	10-10188	1.130	0.2329	4.614	10-1992	1.181	0.2736	4.648	10-10252
1.063	0.2756	4.067	10-03008	1.130	0.274	4.095	10-13073	1.181	0.2738	4.510	10-10102S
1.067	0.2142	3.943	10-3044	1.133	0.196	4.161	10-13323	1.181	0.2740	4.578	10-1708
1.073	0.2155	3.755	10-10553S	1.139	0.2142	4.287	10-03036	1.181	0.3420	4.280	10-09542
1.073	0.2337	3.982	10-2248S	1.140	0.2350	4.019	10-10326S	1.182	0.2743	4.311	10-1674
1.073	0.2352	3.727	10-10306S	1.140	0.236	4.094	10-10815	1.183	0.273	4.234	10-3201
1.074	0.2352	3.788	10-10333	1.141	0.2320	4.258	10-1937	1.185	0.2153	3.614	10-2246
1.079	0.2348	3.898	10-10547	1.141	0.2750	4.134	10-09832	1.185	0.2343	3.975	10-2010S
1.081	0.2339	4.598	10-10817	1.142	0.2148	4.496	10-10542	1.185	0.2348	3.900	10-30124
1.081	0.2344	3.772	10-1950	1.142	0.2148	4.862	10-10198	1.185	0.2735	4.569	10-10256
1.081	0.2349	4.126	10-10724	1.142	0.2150	3.742	10-10738S	1.188	0.3132	4.083	10-10033S
1.081	0.2732	3.967	10-10521	1.142	0.2150	4.398	10-2178S	1.189	0.235	4.024	10-13313
1.082	0.1950	3.960	10-3045	1.142	0.2159	4.526	10-10190	1.189	0.235	5.364	10-13311
1.082	0.215	3.491	10-10736	1.142	0.2335	3.568	10-1706	1.189	0.2756	4.095	10-2234
1.082	0.2160	3.772	10-03037	1.142	0.2340	3.633	10-2040S	1.193	0.2345	4.032	10-2249
1.083	0.1952	4.007	10-13343	1.142	0.2342	4.497	10-10535	1.193	0.236	4.291	10-13222
1.083	0.1955	4.577	10-3402	1.142	0.2343	3.827	10-13230	1.195	0.2349	3.730	10-13221

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
1.195	0.2748	5.242	10-13266	1.238	0.2745	4.309	10-1727	1.299	0.2576	3.981	10-10497
1.196	0.2750	4.039	10-3074	1.239	0.2340	4.790	10-10807	1.299	0.2581	4.576	10-10260S
1.197	0.197	3.524	10-3224	1.240	0.215	3.669	10-30100	1.299	0.2583	4.481	10-10413
1.197	0.2346	4.044	10-30107	1.240	0.216	4.200	10-3089	1.299	0.2594	4.110	10-10195
1.198	0.2343	4.160	10-10696S	1.240	0.2350	3.534	10-10562	1.299	0.2738	4.975	10-2175
1.198	0.2737	4.184	10-10730S	1.240	0.2362	4.051	10-2196	1.299	0.2744	4.773	10-10245
1.199	0.2576	4.153	10-10501	1.240	0.3125	3.815	10-3077	1.299	0.2750	4.892	10-2015
1.200	0.2142	3.844	10-13216	1.25	0.314	4.398	10-09541	1.299	0.2755	4.907	10-2014
1.200	0.2345	4.469	10-3081	1.252	0.2165	4.346	10-03034	1.299	0.2756	4.893	10-13161
1.201	0.2144	4.065	10-3047	1.256	0.2155	4.594	10-3064	1.299	0.2756	4.893	10-13006
1.201	0.2328	4.324	10-1731	1.257	0.2339	4.031	10-10723	1.299	0.2760	4.134	10-09816
1.201	0.2343	4.246	10-1999	1.257	0.2349	4.502	10-10816	1.299	0.2850	4.892	10-2015+10
1.201	0.2351	4.091	10-10474	1.258	0.2155	4.345	10-13087	1.299	0.2855	4.907	10-2014+10
1.201	0.2354	3.924	10-10176	1.258	0.2350	3.665	10-1938	1.299	0.3130	3.877	10-09599
1.201	0.2574	4.150	10-10811	1.259	0.2740	4.065	10-10155	1.299	0.3130	4.396	10-09560
1.201	0.2575	4.319	10-10128	1.260	0.2147	4.063	10-13262	1.299	0.3136	4.032	10-10286S
1.205	0.1957	3.514	10-2241	1.260	0.215	4.303	10-3204	1.299	0.3405	4.729	10-1558
1.205	0.2344	3.748	10-13212	1.260	0.2155	3.485	10-10735	1.299	0.3414	4.729	10-1463
1.205	0.2344	3.824	10-13335	1.260	0.2161	4.411	10-10432	1.299	0.3444	4.729	10-1463+3
1.206	0.2347	3.856	10-13080	1.260	0.2339	3.906	10-10548	1.300	0.2735	4.237	10-3200
1.209	0.2350	3.890	10-3181	1.260	0.2342	4.181	10-13140S	1.300	0.3423	4.680	10-1322
1.215	0.1952	3.989	10-2193	1.260	0.2343	4.120	10-13203S	1.300	0.3453	4.680	10-1322+3
1.217	0.2350	4.747	10-10248	1.260	0.2344	3.870	10-10549	1.305	0.3127	3.591	10-10356S
1.217	0.2591	4.157	10-10122	1.260	0.2345	4.400	10-3083	1.307	0.235	4.040	10-13312
1.220	0.2148	4.280	10-13359	1.260	0.2347	4.020	10-10784	1.307	0.2354	5.370	10-13310
1.220	0.2151	4.156	10-13287	1.260	0.2350	3.781	10-10808	1.307	0.3413	4.730	10-1394
1.220	0.2155	3.756	10-13345S	1.260	0.2350	3.860	10-10337	1.307	0.3443	4.730	10-1394+3
1.220	0.2155	3.756	10-13226	1.260	0.2351	3.698	10-10550	1.307	0.3563	4.730	10-1394+15
1.220	0.2170	3.492	10-10780	1.260	0.2351	3.842	10-10421	1.307	0.3713	4.730	10-1394+30
1.220	0.234	3.994	10-30121	1.260	0.2353	3.963	10-10318	1.308	0.2335	4.169	10-1707
1.220	0.234	4.060	10-30118	1.260	0.2356	4.520	10-1728	1.309	0.2340	4.513	10-1991
1.220	0.2346	4.272	10-13295	1.260	0.2360	3.579	10-3050	1.309	0.2340	4.525	10-1741
1.220	0.2350	3.508	10-10257	1.260	0.2376	3.823	10-1745	1.311	0.3130	3.573	10-10352S
1.220	0.2352	3.636	10-10311	1.260	0.2583	4.481	10-10189	1.312	0.2746	4.435	10-10243
1.220	0.2354	4.148	10-10157	1.260	0.2739	4.100	10-1702	1.317	0.2155	4.337	10-03035
1.220	0.2584	3.969	10-10496	1.260	0.274	4.470	10-30122	1.318	0.2350	4.054	10-10324S
1.220	0.2730	4.963	10-2176	1.260	0.2745	3.853	10-10680	1.319	0.2350	3.959	10-10325
1.220	0.2739	3.970	10-10262S	1.260	0.3131	4.616	10-10280S	1.319	0.2354	3.740	10-10165
1.220	0.2740	4.140	10-10104	1.261	0.2745	4.144	10-10118	1.319	0.2354	3.882	10-10518
1.220	0.2745	4.212	10-10106	1.264	0.2745	3.760	10-10353S	1.323	0.2343	4.252	10-13046
1.220	0.2750	3.996	10-09830	1.268	0.3100	4.260	10-564	1.327	0.236	4.061	10-10814
1.220	0.2756	4.098	10-03007	1.269	0.3153	4.162	10-1300	1.328	0.339	5.198	10-210
1.220	0.3126	4.028	10-10083	1.269	0.3183	4.162	10-1300+3	1.331	0.2340	4.257	10-1920
1.221	0.2354	3.445	10-10506	1.269	0.3303	4.162	10-1300+15	1.331	0.235	4.094	10-3094
1.222	0.212	4.440	10-3199	1.272	0.2349	3.797	10-1949	1.331	0.2356	4.618	10-2118
1.222	0.2749	3.983	10-10183	1.272	0.2738	3.996	10-10520	1.331	0.2748	5.242	10-13265
1.224	0.2592	4.155	10-10742	1.273	0.2353	4.093	10-3096	1.332	0.2740	5.730	10-1802
1.225	0.196	4.004	10-13233	1.278	0.2736	4.506	10-10173	1.333	0.2354	4.094	10-13314
1.226	0.1955	4.613	10-3401	1.278	0.2736	4.506	10-10173S	1.335	0.3130	5.209	10-10100S
1.226	0.3127	3.875	10-10006	1.280	0.2344	3.976	10-10299	1.336	0.215	4.187	10-3086
1.227	0.1950	3.994	10-3046	1.280	0.2747	4.559	10-10162	1.336	0.236	4.382	10-3080
1.227	0.3122	3.879	10-10364S	1.281	0.3138	4.383	10-10131S	1.337	0.236	4.325	10-3103
1.229	0.2335	4.188	10-1739	1.287	0.2153	4.303	10-3002	1.337	0.3120	4.301	10-10093
1.232	0.1958	4.032	10-13342	1.295	0.2742	3.589	10-10734S	1.337	0.3135	3.886	10-10007
1.232	0.2344	3.744	10-10538	1.297	0.2743	4.201	10-10729	1.338	0.2347	4.088	10-10739
1.232	0.2352	4.087	10-30126	1.297	0.3162	4.206	10-10060S	1.338	0.3127	5.069	10-3188
1.232	0.2736	3.892	10-10227S	1.298	0.2350	3.990	10-10234	1.338	0.3135	3.886	10-10363
1.232	0.2740	3.889	10-10793S	1.299	0.2157	4.033	10-10434	1.338	0.314	5.106	10-3187
1.232	0.3130	4.116	10-10369S	1.299	0.2157	4.518	10-10436	1.339	0.2153	4.392	10-2177
1.232	0.3130	4.118	10-10370S	1.299	0.2348	4.424	10-10534	1.339	0.2156	3.758	10-10552
1.234	0.2745	3.812	10-2182S	1.299	0.2349	4.177	10-10695	1.339	0.2156	4.004	10-10798
1.236	0.234	3.702	10-03030	1.299	0.235	3.685	10-13197	1.339	0.2161	4.411	10-10197
1.237	0.274	3.532	10-3079	1.299	0.2350	3.396	10-10786	1.339	0.2161	4.567	10-10541
1.238	0.2733	3.813	10-10732S	1.299	0.2354	3.786	10-10332S	1.339	0.2348	3.499	10-10263

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
1.339	0.2348	3.898	10-10502	1.378	0.3126	4.012	10-10148	1.417	0.2165	4.606	10-13336
1.339	0.2350	3.872	10-10794	1.378	0.3126	4.042	10-10625	1.417	0.2344	4.760	10-10806
1.339	0.2352	3.991	10-10228	1.378	0.3126	4.277	10-10142	1.417	0.2345	4.110	10-13201
1.339	0.2353	3.743	10-10305	1.378	0.3130	4.537	10-10278S	1.417	0.2346	4.169	10-13139S
1.339	0.2354	4.060	10-10284	1.378	0.3133	4.730	10-1465	1.417	0.2350	3.829	10-10537
1.339	0.2587	4.321	10-10126	1.378	0.3136	4.193	10-1485S	1.417	0.2353	4.073	10-10473
1.339	0.2592	4.080	10-10206	1.378	0.3140	4.103	10-10340	1.417	0.2360	3.547	10-3049
1.339	0.2730	5.475	10-10523	1.378	0.3163	4.730	10-1465+3	1.417	0.2738	4.550	10-10103
1.339	0.2737	4.622	10-1698	1.378	0.3283	4.730	10-1465+15	1.417	0.2743	4.482	10-10244
1.339	0.2737	4.622	10-1698S	1.380	0.2585	4.183	10-10810	1.417	0.2745	3.540	10-3078
1.339	0.2737	5.058	10-2179	1.380	0.2586	4.000	10-10136	1.417	0.2746	4.212	10-10107
1.339	0.2738	5.138	10-13182	1.380	0.3413T	4.920	10-1371	1.417	0.2750	4.456	10-10115
1.339	0.2745	4.575	10-10164	1.380	0.3414	4.807	10-1527	1.417	0.3137	3.933	10-10307
1.339	0.2745	4.575	10-10163	1.380	0.3443T	4.920	10-1371+3	1.417	0.3140	3.815	10-3076
1.339	0.2745	4.780	10-10273	1.380	0.3444	4.807	10-1527+3	1.417	0.3140	4.272	10-10323
1.339	0.2750	4.459	10-10082	1.380	0.3564	4.807	10-1527+15	1.417	0.3153	4.353	10-1199
1.339	0.2767	4.622	10-1698+3	1.380	0.3713T	4.920	10-1371+30	1.417	0.3162	4.397	10-10237
1.339	0.2887	4.622	10-1698+15	1.381	0.2737	4.261	10-10271	1.418	0.2740	4.681	10-1925S
1.339	0.3115	4.560	10-10217	1.382	0.2348	4.026	10-13293	1.418	0.2740	4.681	10-1925
1.339	0.3122	5.379	10-10416	1.382	0.2348	4.026	10-1997	1.418	0.3153	4.138	10-10386
1.339	0.3125	3.763	10-10140	1.382	0.3130	4.264	10-09572	1.418	0.3303	4.138	10-10386+15
1.339	0.3125	4.363	10-10086	1.382	0.3131	4.619	10-10036S	1.419	0.3139	4.483	10-10037
1.339	0.3131	4.606	10-10276S	1.382	0.3137	4.901	10-10282S	1.425	0.3132	4.736	10-1811
1.339	0.3152	5.271	10-1545+15	1.382	0.3137	4.901	10-10282	1.425	0.3132	4.757	10-2173
1.339	0.3152	5.271	10-1545	1.384	0.2348	3.985	10-13211	1.425	0.3136	4.736	10-1560
1.340	0.2580	4.020	10-10098	1.386	0.2348	3.984	10-13204	1.425	0.3149	4.716	10-2058
1.343	0.3138	4.126	10-10367	1.390	0.3101	4.260	10-1266	1.425	0.3162	4.736	10-1811+3
1.346	0.2737	4.211	10-10557S	1.390	0.3131	4.260	10-1266+3	1.425	0.3176	4.736	10-1560+3
1.347	0.2335	4.408	10-2076	1.390	0.3251	4.260	10-1266+15	1.425	0.3282	4.736	10-1811+15
1.354	0.2155	3.737	10-10737	1.390	0.3401	4.260	10-1266+30	1.425	0.3286	4.736	10-1560+15
1.358	0.235	3.907	10-3190	1.394	0.3116T	4.442	10-1448	1.425	0.3299	4.716	10-2058+15
1.360	0.3153	4.098	10-10388	1.394	0.3117T	4.522	10-1552	1.425	0.3408	4.698	10-1318
1.360	0.3183	4.098	10-10388+3	1.394	0.3117T	4.523	10-1554	1.425	0.3408	4.698	10-1352
1.360	0.3303	4.098	10-10388+15	1.394	0.3267T	4.522	10-1552+15	1.425	0.3413	4.736	10-1480
1.360	0.3715	4.796	10-1265	1.396	0.2333	4.227	10-1941	1.425	0.3443	4.736	10-1480+3
1.360	0.3745	4.796	10-1265+3	1.398	0.2152	3.960	10-13215	1.425	0.3563	4.736	10-1480+15
1.360	0.3765	4.796	10-1265+5	1.398	0.2722	5.023	10-1994	1.426	0.2335	4.408	10-2053
1.360	0.3865	4.796	10-1265+15	1.398	0.2748	4.331	10-1673	1.433	0.212	4.085	10-3198
1.360	0.4015	4.796	10-1265+30	1.398	0.3125	4.396	10-09540	1.436	0.216	4.210	10-13088
1.366	0.2350	4.536	10-10247	1.400	0.235	4.004	10-30106	1.437	0.234	4.347	10-3082
1.369	0.2740	4.615	10-2047	1.401	0.3122	4.646	10-3223	1.437	0.2734	4.516	10-1901
1.370	0.2340	4.398	10-2008	1.402	0.2165	4.354	10-03033	1.437	0.2742	4.091	10-1703
1.370	0.2340	4.399	10-1730	1.402	0.2354	3.827	10-3180	1.437	0.2748	4.325	10-1726
1.371	0.3125	4.615	10-1535	1.405	0.2349	3.815	10-13079	1.437	0.2750	4.102	10-10116
1.375	0.2351	3.303	10-13276	1.406	0.3720T	4.892	10-1441	1.441	0.2740	3.986	10-10792
1.375	0.2588	4.186	10-10500	1.406	0.3720T	4.892	10-549	1.441	0.2743	3.989	10-10226
1.375	0.3407	4.643	10-976	1.406	0.3721T	4.892	10-1325	1.441	0.2744	4.550	10-10172
1.376	0.2730	4.762	10-10193	1.406	0.3751T	4.892	10-1325+3	1.443	0.2745	3.910	10-2181
1.376	0.3124	4.394	10-10064	1.406	0.3870T	4.892	10-1441+15	1.445	0.274	4.439	10-30116
1.377	0.2748	4.456	10-10112	1.406	0.3871T	4.892	10-1325+15	1.449	0.2352	3.825	10-13220
1.378	0.1955	3.999	10-2192	1.406	0.387T	4.892	10-549+15	1.450	0.3420	4.863	10-742
1.378	0.2148	4.295	10-03031	1.406	0.4021T	4.892	10-1325+30	1.450	0.3450	4.863	10-742+3
1.378	0.2150	4.070	10-3048	1.407	0.3405	4.840	10-185	1.450	0.3570	4.863	10-742+15
1.378	0.2151	3.313	10-10169	1.410	0.3410	4.973	10-09538	1.450	0.3720	4.863	10-742+30
1.378	0.2151	3.925	10-13259	1.410	0.3425	4.973	10-09538+15	1.451	0.3414	4.942	10-1537
1.378	0.2154	4.456	10-13190	1.413	0.3123	4.340	10-10220S	1.451	0.3414	5.070	10-1135
1.378	0.2156	3.640	10-2245	1.415	0.2154	4.135	10-13286	1.451	0.3415	4.873	10-1000
1.378	0.2156	4.073	10-2006	1.415	0.2726	4.035	10-10374S	1.451	0.3444	4.942	10-1537+3
1.378	0.2160	4.567	10-10778	1.415	0.2741	3.813	10-10731	1.451	0.3444	5.070	10-1135+3
1.378	0.2350	3.818	10-10167	1.415	0.2742	4.140	10-10105	1.451	0.3445	4.873	10-1000+3
1.378	0.2354	4.071	10-13305	1.416	0.3138	4.290	10-10071	1.451	0.3564	4.942	10-1537+15
1.378	0.2356	4.510	10-1787	1.416	0.3138	4.451	10-10024S	1.451	0.3564	5.070	10-1135+15
1.378	0.2733	4.516	10-1712	1.417	0.215	4.075	10-13261	1.451	0.3565	4.873	10-1000+15
1.378	0.2883	4.516	10-1712+15	1.417	0.2157	4.283	10-13358	1.451	0.3714	5.070	10-1135+30

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
1.453	0.3123	4.260	10-10221S	1.500	0.2740	4.807	10-1744	1.500	0.4335	5.690	10-1017S
1.455	0.3130	5.140	10-13121	1.500	0.2770	4.807	10-1744+3	1.500	0.4335	5.690	10-1017
1.456	0.2750	5.337	10-1709	1.500	0.2890	4.807	10-1744+15	1.500	0.4385	5.690	10-1017S+5
1.456	0.3120	5.128	10-13122	1.500	0.3108	4.939	10-1917	1.501	0.3400	4.875	10-257
1.457	0.216	3.841	10-13225	1.500	0.3115T	4.939	10-1478	1.502	0.3143	4.390	10-10130
1.457	0.2347	4.149	10-1998	1.500	0.3115T	4.940	10-1556	1.502	0.3423	4.688	10-1354
1.457	0.2348	3.988	10-13334	1.500	0.3130	4.940	10-10269	1.502	0.3453	4.688	10-1354+3
1.457	0.2356	4.719	10-13294	1.500	0.3132T	4.355	10-1550	1.502	0.3573	4.688	10-1354+15
1.457	0.2722	4.528	10-1919	1.500	0.3133T	4.541	10-1591	1.505	0.4343	5.373	10-917
1.457	0.2722	4.539	10-13252	1.500	0.3138	4.939	10-1917+3	1.505	0.4358	5.373	10-917+15
1.457	0.2738	5.000	10-1903	1.500	0.3145T	4.939	10-1478+3	1.505	0.4373	5.373	10-917+3
1.457	0.2738	5.142	10-1737	1.500	0.3145T	4.940	10-1556+3	1.505	0.4403	5.373	10-917+30
1.457	0.2738	5.142	10-1737+3	1.500	0.3152T	4.355	10-1550+3	1.508	0.3704	5.373	10-1332
1.457	0.2747	4.674	10-10251	1.500	0.3160	4.940	10-10269+3	1.508	0.3734	5.373	10-1332+3
1.457	0.2768	5.000	10-1903+3	1.500	0.3163T	4.541	10-1591+3	1.508	0.3854	5.373	10-1332+15
1.457	0.2888	5.000	10-1903+15	1.500	0.3258	4.939	10-1917+15	1.510	0.2346	3.962	10-13333
1.457	0.2888	5.142	10-1737+15	1.500	0.3265T	4.939	10-1478+15	1.510	0.3410	4.819	10-212
1.457	0.3132	5.165	10-1704	1.500	0.3265T	4.940	10-1556+15	1.510	0.3418	5.089	10-375
1.457	0.3132	5.165	10-1568	1.500	0.3280	4.940	10-10269+15	1.510	0.3568	5.089	10-375+15
1.457	0.3138	4.420	10-10330	1.500	0.3282T	4.355	10-1550+15	1.510	0.3568	5.089	10-375+3
1.457	0.3152	5.189	10-1451	1.500	0.3283T	4.541	10-1591+15	1.510	0.3718	5.089	10-375+30
1.457	0.3154	5.119	10-1936	1.500	0.3408	4.718	10-1387	1.516	0.3136	4.391	10-10345S
1.457	0.3162	5.165	10-1568+3	1.500	0.3408	4.718	10-1389	1.517	0.3715	4.996	10-1312S
1.457	0.3282	5.165	10-1568+15	1.500	0.3412	5.078	10-1361	1.517	0.3716	4.995	10-1419
1.460	0.2744	4.586	10-10255	1.500	0.3412T	4.928	10-400	1.517	0.3866	4.995	10-1419+15
1.460	0.3414	4.845	10-1469	1.500	0.3413T	4.904	10-1809	1.520	0.3132	4.713	10-1735
1.460	0.3414	5.070	10-1327	1.500	0.3413T	4.920	10-1807S	1.520	0.3406	5.177	10-211
1.460	0.3434	4.845	10-1469+3	1.500	0.3413T	4.920	10-1807	1.522	0.3428	4.667	10-1323
1.460	0.3564	4.845	10-1469+15	1.500	0.3413T	4.923	10-1206S	1.523	0.3135	4.803	10-13044
1.460	0.3564	5.070	10-1327+15	1.500	0.3414	4.787	10-1597	1.525	0.2347	4.165	10-13179
1.461	0.2740	4.845	10-1791	1.500	0.3414	4.807	10-1397	1.527	0.3105	4.260	10-627
1.462	0.3141	4.089	10-10031	1.500	0.3414	4.988	10-1433	1.527	0.3135	4.260	10-627+3
1.465	0.235	3.798	10-03029	1.500	0.3414T	4.928	10-1192	1.531	0.3405	4.845	10-349
1.468	0.3715	5.810	10-121	1.500	0.3415	4.620	10-1437	1.531	0.3555	4.845	10-349+15
1.468	0.3715	5.913	10-303	1.500	0.3415T	4.940	10-1556+30	1.531	0.3727	5.810	10-122
1.476	0.215	4.186	10-3088	1.500	0.3438	4.718	10-1389+3	1.535	0.2350	4.588	10-13263
1.476	0.2346	4.583	10-2119	1.500	0.3438	4.718	10-1387+3	1.535	0.2739	4.524	10-1914
1.476	0.2346	4.583	10-2265	1.500	0.3444	4.787	10-1597+3	1.535	0.2742	4.171	10-10556
1.476	0.2352	4.073	10-10321	1.500	0.3445T	4.928	10-1192+3	1.535	0.3130	5.209	10-10101S
1.476	0.2740	4.065	10-10154	1.500	0.3445T	4.928	10-400+3	1.535	0.3138	4.613	10-10279
1.476	0.3116	4.974	10-1670	1.500	0.3455	4.620	10-1437+3	1.535	0.3163	5.383	10-1546
1.476	0.3116	5.045	10-1905	1.500	0.3558	4.718	10-1389+15	1.535	0.3163	5.383	10-1546+15
1.476	0.3130	5.047	10-10342S	1.500	0.3558	4.718	10-1387+15	1.535	0.3416	4.823	10-1464
1.478	0.3142	4.922	10-10069	1.500	0.3562T	4.928	10-1192+15	1.535	0.3417	4.823	10-1559
1.488	0.3140	4.158	10-10076	1.500	0.3562T	4.928	10-400+15	1.535	0.3446	4.823	10-1464+3
1.490	0.3408	4.727	10-1710	1.500	0.3564	4.787	10-1597+15	1.535	0.3566	4.823	10-1464+15
1.490	0.3558	4.727	10-1710+15	1.500	0.3565	4.620	10-1437+15	1.535	0.3567	4.823	10-1559+15
1.493	0.3120	4.170	10-10146S	1.500	0.3708	4.718	10-1389+30	1.535	0.3718T	5.112	10-1780S
1.493	0.3125	4.170	10-10146	1.500	0.3712T	4.928	10-400+30	1.541	0.3414	5.070	10-1877
1.494	0.313	3.581	10-10358S	1.500	0.3715	4.620	10-1437+30	1.541	0.3415	5.070	10-1237
1.495	0.2156	4.165	10-13086	1.500	0.3715	4.983	10-1399	1.541	0.3445	5.070	10-1237+3
1.495	0.3125	4.252	10-10091S	1.500	0.3715	5.003	10-1329	1.541	0.3565	5.070	10-1237+15
1.496	0.234	3.994	10-30120	1.500	0.3718T	4.923	10-1294	1.541	0.3715	5.070	10-1237+30
1.496	0.2748	3.872	10-10679	1.500	0.3718T	4.923	10-1294S	1.550	0.3136	4.915	10-1935S
1.496	0.2758	3.996	10-09815	1.500	0.3719	4.923	10-1646S	1.550	0.3136	4.915	10-1935
1.496	0.2760	3.983	10-10182	1.500	0.3725	5.027	10-1188	1.550	0.3726	5.016	10-1320
1.496	0.3126	4.141	10-10144	1.500	0.3748T	4.923	10-1294+3	1.550	0.3876	5.016	10-1320+15
1.496	0.3130	3.885	10-09658	1.500	0.3769	5.003	10-1329+5	1.551	0.3115	4.842	10-2220
1.496	0.3130	5.015	10-10267	1.500	0.3865	4.983	10-1399+15	1.551	0.3126	4.915	10-2045
1.496	0.315	6.006	10-3189	1.500	0.3865	5.003	10-1329+15	1.552	0.3126	5.139	10-13195
1.496	0.3160	4.824	10-10246S	1.500	0.3868T	4.923	10-1294+15	1.555	0.2756	3.618	10-10733
1.496	0.3405	4.713	10-1593	1.500	0.4018T	4.923	10-1294+30	1.555	0.315	3.618	10-10158S
1.496	0.3555	4.713	10-1593+15	1.500	0.4019	5.003	10-1329+30	1.559	0.3715	5.436	10-1242
1.496	0.3718T	5.108	10-1482S	1.500	0.4335	5.690	10-576	1.559	0.3745	5.436	10-1242+3

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
1.559	0.3865	5.436	10-1242+15	1.600	0.3865	5.006	10-1307+15	1.654	0.3516	5.537	10-2238
1.559	0.4015	5.436	10-1242+30	1.600	0.4015	5.006	10-1307+30	1.654	0.3569	4.983	10-1271+15
1.560	0.3419	4.810	10-1358	1.610	0.3419	4.787	10-1528	1.654	0.3570	5.080	10-1102+15
1.560	0.3419	4.810	10-1177S	1.610	0.3449	4.787	10-1528+3	1.655	0.3414	5.050	10-1367
1.560	0.3420	4.750	10-1504	1.610	0.3569	4.787	10-1528+15	1.655	0.3415	5.050	10-1169
1.560	0.3420	4.750	10-1504S	1.614	0.3141	4.457	10-10018	1.655	0.3444	5.050	10-1367+3
1.560	0.3420	4.810	10-965S	1.614	0.3143	4.193	10-1486	1.655	0.3565	5.050	10-1169+15
1.560	0.3449	4.810	10-1358+3	1.614	0.3173	4.193	10-1486+3	1.655	0.3715	5.050	10-1169+30
1.560	0.3450	4.750	10-1504+3	1.614	0.3293	4.193	10-1486+15	1.656	0.3161	4.258	10-10061
1.560	0.3569	4.810	10-1177+15	1.615	0.3139	4.288	10-10072	1.656	0.3163	4.134	10-10385
1.560	0.3569	4.810	10-1358+15	1.617	0.2744	4.224	10-10270	1.656	0.3193	4.134	10-10385+3
1.560	0.3570	4.750	10-1504+15	1.617	0.3716	4.995	10-1675	1.656	0.3313	4.134	10-10385+15
1.560	0.3570	4.810	10-965S+15	1.617	0.3716	4.995	10-1417	1.657	0.2744	4.945	10-10281
1.560	0.3719	4.810	10-1358+30	1.617	0.3766	4.995	10-1675+5	1.658	0.3140	4.899	10-10268
1.560	0.3720	4.750	10-1504+30	1.617	0.3766	4.995	10-1417+5	1.660	0.3410	4.959	10-1245
1.562	0.3422	4.728	10-970	1.617	0.3866	4.995	10-1417+15	1.660	0.3410	4.984	10-1093
1.562	0.3704	4.954	10-1381	1.617	0.3866	4.995	10-1675+15	1.660	0.3715	5.368	10-1153
1.562	0.3708	4.954	10-1383C	1.620	0.3725	4.774	10-567	1.660	0.3716	5.350	10-1241C
1.562	0.3734	4.954	10-1381+3	1.620	0.3775	4.774	10-567+5	1.660	0.3716	5.367	10-1235S
1.562	0.3854	4.954	10-1381+15	1.620	0.3875	4.774	10-567+15	1.660	0.3718	5.367	10-996S
1.563	0.3715	4.539	10-518	1.620	0.4025	4.774	10-567+30	1.660	0.3730	5.368	10-1153+15
1.570	0.2755	4.035	10-10375	1.622	0.3423	4.675	10-1324	1.660	0.3868	5.367	10-996S+15
1.570	0.3165	4.158	10-1285	1.622	0.3423	4.708	10-1212	1.660	0.4018	5.367	10-996S+30
1.570	0.3195	4.158	10-1285+3	1.622	0.3423	5.029	10-1369	1.661	0.2750	4.637	10-2046
1.574	0.2737	5.469	10-10522	1.624	0.3105	5.743	10-1782	1.661	0.3130	4.615	10-1536+3
1.575	0.3124	4.646	10-3222	1.624	0.3115T	4.920	10-1715	1.661	0.3130	4.615	10-1536
1.575	0.3125	4.560	10-10216	1.624	0.3145T	4.920	10-1715+3	1.661	0.3280	4.615	10-1536+15
1.575	0.3130	4.820	10-10274S	1.624	0.3265T	4.920	10-1715+15	1.663	0.3130	4.357	10-10218
1.575	0.3131	5.378	10-10415	1.624	0.3422	4.695	10-974	1.673	0.3130	4.315	10-10087
1.575	0.3135	3.886	10-10351	1.625	0.3410	4.643	10-975	1.680	0.3122	5.799	10-1786
1.575	0.3140	4.262	10-10322	1.625	0.3414	4.998	10-1292	1.680	0.3122	5.805	10-1785
1.575	0.3140	4.609	10-10275	1.625	0.3418	5.246	10-1083	1.680	0.3714T	4.910	10-1326
1.578	0.2744	4.208	10-10272	1.625	0.3720T	4.917	10-1047	1.680	0.3720T	4.930	10-1257
1.578	0.3138	5.118	10-3186	1.625	0.3725	5.158	10-1189	1.680	0.3864T	4.910	10-1326+15
1.579	0.3138	3.596	10-10350S	1.635	0.4340	5.702	10-1346S	1.682	0.3419	5.070	10-1416
1.579	0.3140	4.256	10-09571	1.640	0.3410	4.877	10-1072	1.682	0.3569	5.070	10-1416+15
1.580	0.3704	5.742	10-1740	1.641	0.3412	6.283	10-199	1.684	0.3423	4.675	10-1210
1.588	0.3125	4.353	10-10094	1.645	0.2760	4.100	10-10213	1.687	0.3726	5.155	10-1321
1.589	0.3136	4.914	10-13241S	1.647	0.3420	5.090	10-376	1.689	0.3140	4.432	10-10065
1.593	0.3136	4.914	10-13042	1.647	0.3720	5.090	10-376+30	1.692	0.3142	4.543	10-10048
1.595	0.3125	4.921	10-13207	1.648	0.3139	4.583	10-10015	1.693	0.2760	4.102	10-10117
1.595	0.3719	5.670	10-1754	1.651	0.2743	4.035	10-10373	1.693	0.3136	4.323	10-10141
1.595	0.3720T	5.670	10-1542	1.651	0.3103	4.260	10-1268	1.693	0.3136	5.456	10-1569+15
1.595	0.3720T	5.680	10-1542S	1.651	0.3133	4.260	10-1268+3	1.693	0.3136	5.456	10-1569
1.598	0.3127	4.419	10-1449	1.651	0.3253	4.260	10-1268+15	1.693	0.3137	4.024	10-10147
1.598	0.3128	4.499	10-1555	1.651	0.3403	4.260	10-1268+30	1.693	0.3137	4.054	10-10624
1.598	0.3677	4.419	10-1449+15	1.653	0.3719T	5.108	10-1483S	1.693	0.3704	6.160	10-1758
1.599	0.3122	4.499	10-1553	1.654	0.3122	5.348	10-13289	1.709	0.3415	5.050	10-1171
1.600	0.234	4.298	10-3102	1.654	0.3122	5.348	10-13291S	1.710	0.3407	4.713	10-1388
1.600	0.3136	4.700	10-1466	1.654	0.3137	3.866	10-10139	1.710	0.3407	4.726	10-1711
1.600	0.3166	4.700	10-1466+3	1.654	0.3137	5.081	10-1862	1.710	0.3437	4.713	10-1388+3
1.600	0.3286	4.700	10-1466+15	1.654	0.3138	5.081	10-1664	1.710	0.3437	4.726	10-1711+3
1.600	0.3413	4.700	10-1395	1.654	0.3140	4.101	10-10339S	1.710	0.3557	4.713	10-1388+15
1.600	0.3413	4.880	10-1372	1.654	0.3140	4.981	10-10266	1.710	0.3707	4.713	10-1388+30
1.600	0.3415	4.904	10-919	1.654	0.3142	4.578	10-10334	1.711	0.3163	4.092	10-10387
1.600	0.3443	4.700	10-1395+3	1.654	0.3163	4.376	10-1200	1.711	0.3193	4.092	10-10387+3
1.600	0.3563	4.700	10-1395+15	1.654	0.3163	5.306	10-1452	1.711	0.3313	4.092	10-10387+15
1.600	0.3563	4.880	10-1372+15	1.654	0.3193	5.306	10-1452+3	1.718	0.3139	4.682	10-2057
1.600	0.3710	5.003	10-1401	1.654	0.3419	4.982	10-1547	1.718	0.3139	4.713	10-1810
1.600	0.3713	4.700	10-1395+30	1.654	0.3419	4.983	10-1271	1.718	0.3140	4.706	10-1561
1.600	0.3715	5.006	10-1307	1.654	0.3419	4.983	10-1832C	1.718	0.3170	4.706	10-1561+3
1.600	0.3715	5.006	10-1309	1.654	0.3420	5.080	10-1102	1.718	0.3289	4.682	10-2057+15
1.600	0.3725T	4.889	10-520	1.654	0.3449	4.983	10-1271+3	1.718	0.3289	4.713	10-1810+15
1.600	0.3765	5.006	10-1307+5	1.654	0.3450	5.080	10-1102+3	1.718	0.3290	4.706	10-1561+15

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
1.718	0.3410	4.845	10-298	1.752	0.2780	4.622	10-1699+3	1.784	0.3714	5.147	10-1382
1.718	0.3412	4.705	10-1481	1.752	0.2900	4.622	10-1699+15	1.784	0.3714	5.147	10-1384S
1.718	0.3442	4.705	10-1481+3	1.753	0.3714	5.393	10-1057S	1.784	0.3744	5.147	10-1382+3
1.718	0.3563	4.705	10-1481+15	1.753	0.3714	5.393	10-1057	1.784	0.3864	5.147	10-1382+15
1.720	0.3135	4.394	10-1551	1.753	0.3714	5.393	10-1348	1.787	0.3720	4.899	10-550
1.720	0.3135	4.591	10-1592	1.753	0.3714	5.393	10-1349S	1.787	0.3720	4.899	10-1442
1.720	0.3165	4.394	10-1551+3	1.753	0.3715	5.393	10-949	1.787	0.3720	4.899	10-1260
1.720	0.3285	4.394	10-1551+15	1.753	0.3744	5.393	10-1057+3	1.787	0.3750	4.899	10-1260+3
1.720	0.3285	4.591	10-1592+15	1.753	0.3864	5.393	10-1057+15	1.787	0.3870	4.899	10-1442+15
1.720	0.3413	4.917	10-399	1.753	0.3865	5.393	10-949+15	1.787	0.3870	4.899	10-550+15
1.720	0.3413	4.917	10-1193	1.753	0.4014	5.393	10-1057+30	1.787	0.3870	4.899	10-1260+15
1.720	0.3419	5.078	10-1362	1.760	0.3138	4.684	10-2172	1.787	0.4020	4.899	10-1260+30
1.720	0.3420	4.917	10-1194	1.760	0.3139	4.684	10-1929	1.791	0.3127	4.949	10-1671
1.720	0.3421	4.665	10-1438	1.770	0.3134	4.480	10-10328	1.791	0.3128	4.949	10-1870
1.720	0.3443	4.917	10-399+3	1.770	0.3410	4.975	10-1160	1.791	0.3128	5.021	10-1904
1.720	0.3448	4.917	10-1193+3	1.770	0.3410	5.093	10-1097	1.800	0.3134	4.721	10-1858
1.720	0.3449	5.078	10-1362+3	1.772	0.3138	5.084	10-1665	1.810	0.3134	4.250	10-10145
1.720	0.3451	4.665	10-1438+3	1.772	0.3417	4.799	10-1594	1.810	0.3135	4.331	10-10092
1.720	0.3568	4.917	10-1193+15	1.772	0.3567	4.799	10-1594+15	1.811	0.2745	4.524	10-1913
1.720	0.3569	4.917	10-399+15	1.780	0.3420	4.810	10-1120	1.811	0.3137	4.195	10-10143
1.720	0.3569	5.078	10-1362+15	1.780	0.3420	4.973	10-09536	1.811	0.3142	4.917	10-10070
1.720	0.3571	4.665	10-1438+15	1.780	0.3421	5.110	10-373	1.811	0.3413	5.108	10-1484
1.720	0.3713	4.917	10-399+30	1.780	0.3450	4.810	10-1120+3	1.811	0.3413	5.108	10-1484+15
1.720	0.3715	5.355	10-1106	1.780	0.3450	4.973	10-09536+3	1.811	0.3725	4.979	10-1186
1.720	0.3716	5.355	10-1261S	1.780	0.3451	5.110	10-373+3	1.830	0.3133	4.724	10-13013
1.720	0.3716	5.355	10-1578S	1.780	0.3570	4.810	10-1120+15	1.830	0.3522	5.555	10-2239
1.720	0.3716	5.355	10-1578SP	1.780	0.3570	4.973	10-09536+15	1.840	0.3412	4.881	10-1806
1.720	0.3721	4.665	10-1438+30	1.780	0.3571	5.110	10-373+15	1.840	0.3413	4.912	10-1393
1.720	0.3865	5.355	10-1106+15	1.780	0.3720	4.810	10-1120+30	1.840	0.3443	4.912	10-1393+3
1.721	0.3720	5.400	10-2126S	1.780	0.3721	5.110	10-373+30	1.840	0.3563	4.912	10-1393+15
1.732	0.2742	5.465	10-1736	1.780	0.3725	4.979	10-938	1.840	0.3713	4.912	10-1393+30
1.732	0.2742	5.465	10-1736+3	1.780	0.3775	4.979	10-938+5	1.840	0.3720	5.235	10-997
1.732	0.2746	5.285	10-1902	1.780	0.3875	4.979	10-938+15	1.840	0.3750	5.235	10-997+3
1.732	0.2776	5.285	10-1902+3	1.780	0.4025	4.979	10-938+30	1.840	0.3870	5.235	10-997+15
1.732	0.2892	5.465	10-1736+15	1.781	0.3415	4.873	10-1001	1.840	0.4050	5.235	10-997+30
1.732	0.2896	5.285	10-1902+15	1.781	0.3420	4.750	10-1792	1.842	0.3419	5.070	10-1701
1.732	0.3135	4.350	10-10406	1.781	0.3420	4.750	10-1505	1.842	0.3718	5.742	10-1694
1.732	0.3136	5.457	10-1705	1.781	0.3420	4.810	10-963	1.842	0.3868	5.742	10-1694+15
1.732	0.3139	4.500	10-10277	1.781	0.3420	4.863	10-947	1.844	0.3725	4.599	10-514
1.732	0.3164	4.405	10-10236	1.781	0.3420	5.050	10-1137	1.846	0.3417	5.079	10-1238
1.735	0.2750	4.787	10-1743	1.781	0.3445	4.873	10-1001+3	1.846	0.3447	5.079	10-1238+3
1.735	0.3419	4.787	10-1598	1.781	0.3450	4.750	10-1505+3	1.846	0.3567	5.079	10-1238+15
1.735	0.3449	4.787	10-1598+3	1.781	0.3450	4.750	10-1505+30	1.846	0.3717	5.079	10-1238+30
1.735	0.3569	4.787	10-1598+15	1.781	0.3450	4.810	10-963+3	1.861	0.2750	4.840	10-1789
1.736	0.3130	4.280	10-10219	1.781	0.3450	4.863	10-947+3	1.870	0.3136	4.835	10-13043
1.736	0.3163	5.255	10-2044	1.781	0.3450	5.050	10-1137+3	1.870	0.3715	6.160	10-1757
1.738	0.3138	4.580	10-10056	1.781	0.3565	4.873	10-1001+15	1.875	0.3415	6.391	10-308
1.740	0.3715	4.897	10-1281	1.781	0.3570	4.750	10-1505+15	1.875	0.3427	4.740	10-969
1.740	0.3722T	4.885	10-1156	1.781	0.3570	4.810	10-963+15	1.875	0.3428	4.667	10-1263
1.740	0.3872T	4.885	10-1156+15	1.781	0.3570	4.863	10-947+15	1.875	0.3428	5.019	10-1370
1.750	0.3416	4.975	10-1434	1.781	0.3570	5.050	10-1137+15	1.875	0.3458	4.667	10-1263+3
1.750	0.3428	4.667	10-1450	1.781	0.3720	4.810	10-963+30	1.875	0.3578	4.667	10-1263+15
1.750	0.3446	4.975	10-1434+3	1.781	0.3720	5.050	10-1137+30	1.875	0.3718	5.355	10-1131
1.750	0.3458	4.667	10-1450+3	1.782	0.2750	4.840	10-1790	1.875	0.3725	5.009	10-1082
1.750	0.3466	4.975	10-1434+15	1.782	0.3141	4.428	10-10344	1.877	0.3719	5.687	10-1543
1.750	0.3578	4.667	10-1450+15	1.782	0.3419	4.840	10-1470	1.880	0.3720	4.981	10-1273
1.751	0.3103	4.260	10-1357	1.782	0.3419	5.070	10-1328	1.880	0.3725	4.981	10-1180
1.751	0.3133	4.260	10-1357+3	1.782	0.3420	4.942	10-1538	1.880	0.3725	5.668	10-577
1.751	0.3253	4.260	10-1357+15	1.782	0.3449	5.070	10-1328+3	1.880	0.3755	4.981	10-1180+3
1.751	0.3403	4.260	10-1357+30	1.782	0.3450	4.942	10-1538+3	1.880	0.3775	4.981	10-1180+5
1.752	0.2750	4.622	10-1699S	1.782	0.3569	4.840	10-1470+15	1.880	0.3775	5.668	10-577+5
1.752	0.2750	4.622	10-1699	1.782	0.3569	5.070	10-1328+15	1.880	0.3875	4.981	10-1180+15
1.752	0.2750	4.752	10-1924S	1.782	0.3570	4.942	10-1538+15	1.880	0.4025	4.981	10-1180+30
1.752	0.2750	4.752	10-1924	1.782	0.3719	5.070	10-1328+30	1.890	0.2734	4.969	10-1993

# VALVE PROGRESSIVE SIZE LISTING BY HEAD DIAMETER

Head Dia.	Stem Dia.	Length	QC #	Head Dia.	Stem Dia.	Length	QC #
1.890	0.3136	4.869	10-1934	2.065	0.3720	5.230	10-1107S
1.890	0.3136	4.869	10-1934S	2.065	0.3720	5.230	10-1107
1.910	0.3110	4.911	10-1916	2.065	0.3870	5.230	10-1107+15
1.910	0.3115	4.912	10-1557	2.072	0.3427	4.688	10-1002
1.910	0.3115	4.912	10-1479	2.079	0.3125	4.961	10-13206
1.910	0.3140	4.911	10-1916+3	2.080	0.3725	4.869	10-548
1.910	0.3145	4.912	10-1479+3	2.080	0.3875	4.869	10-548+15
1.910	0.3145	4.912	10-1557+3	2.083	0.3419	5.175	10-1723
1.910	0.3260	4.911	10-1916+15	2.083	0.3419	5.198	10-1272
1.910	0.3265	4.912	10-1557+15	2.083	0.3420	5.288	10-1103
1.910	0.3415	4.912	10-1557+30	2.083	0.3449	5.198	10-1272+3
1.915	0.2734	4.481	10-13251	2.083	0.3450	5.288	10-1103+3
1.918	0.2734	4.463	10-1918	2.083	0.3569	5.198	10-1272+15
1.920	0.3115	4.906	10-1714	2.083	0.3570	5.288	10-1103+15
1.920	0.3115	5.728	10-1781	2.106	0.3127	5.425	10-13290S
1.920	0.3145	4.906	10-1714+3	2.106	0.3127	5.425	10-13288
1.920	0.3265	4.906	10-1714+15	2.110	0.3415	4.979	10-1161
1.920	0.3411	4.898	10-958	2.110	0.3415	5.098	10-1098
1.925	0.3421	5.110	10-494	2.165	0.3135	4.870	10-13240
1.940	0.3410	4.881	10-1931	2.165	0.3135	4.890	10-13239
1.940	0.3414	4.880	10-1195	2.187	0.3720	5.225	10-2101
1.940	0.3414	4.880	10-696	2.190	0.3420	5.231	10-1172
1.940	0.3444	4.880	10-696+3	2.190	0.3720	5.225	10-1164
1.940	0.3444	4.880	10-1195+3				
1.940	0.3564	4.880	10-696+15				
1.940	0.3569	4.880	10-1195+15				
1.940	0.3714	4.880	10-696+30				
1.940	0.3720	5.230	10-1087				
1.960	0.3415	4.980	10-1296				
1.968	0.3413	5.104	10-1518				
1.969	0.3523	5.549	10-2237				
1.976	0.3419	5.197	10-1548S				
1.976	0.3419	5.197	10-1548				
1.976	0.3449	5.197	10-1548+3				
1.976	0.3449	5.197	10-1548S+3				
1.976	0.3569	5.197	10-1548+15				
1.995	0.3427	4.707	10-1457				
1.995	0.3457	4.707	10-1457+3				
2.000	0.3128	4.929	10-2103				
2.000	0.3135	4.870	10-13244				
2.000	0.3136	4.869	10-2267				
2.000	0.3416	4.985	10-1293				
2.000	0.3420	5.233	10-1084				
2.000	0.3725	5.138	10-1105				
2.000	0.3733	4.791	10-302				
2.020	0.3415	4.880	10-988				
2.025	0.3720	4.899	10-1048				
2.025	0.3720	4.899	10-1258				
2.025	0.3750	4.899	10-1258+3				
2.025	0.3870	4.899	10-1258+15				
2.027	0.3716	5.440	10-637				
2.027	0.3746	5.440	10-637+3				
2.027	0.3766	5.440	10-637+5				
2.027	0.3866	5.440	10-637+15				
2.027	0.4016	5.440	10-637+30				
2.041	0.3419	5.231	10-1170				
2.041	0.3419	5.231	10-1380				
2.041	0.3449	5.231	10-1380+3				
2.041	0.3459	5.231	10-1170+3				
2.041	0.3569	5.231	10-1170+15				
2.041	0.3569	5.231	10-1380+15				
2.041	0.3719	5.231	10-1170+30				
2.050	0.3127	5.165	10-13194				
2.064	0.3714	5.147	10-1386S				



# VALVE SEAT INSERT NUMBERING SYSTEM AND NOTES

20- Prefix denotes the four digit number is the estimated cutter size. The actual O.D. includes a press fit for a cast iron head of between .0045" and .006" depending on size.

e.g. 20-1562-1 suggests the use of a 1-9/16" cutter and allows for .0045" press fit. Actual O.D. is 1.5670".

21- Prefix is specifically for aluminum cylinder heads. The part number also includes the estimated cutter size and allows for .007" press fit.

e.g. 21-1625-59 suggests the use of a 1-5/8" cutter and allows for .007" press fit. Actual O.D. is 1.6320"

22- Prefix denotes the part number is the exact O.D. Used for factory Installed seats.

e.g. 22-2006-1 shows the actual O.D. 2.006".

All our valve seat inserts have a finished I.D. and geometry on the lead-in edge to ease the press fit. We use a variety of alloys to suit the applications listed in our catalog. For example very special alloys are used for heavy duty applications. We also feature the QualCast "N" series inserts manufactured using a non-magnetic nickel based alloy, which provides superior high temperature hardness and corrosion resistance. As with all our products, we "quality assure" their suitability at our test lab in Nashville.

## VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1000-1	1.000	1.0045	3/4		3/16	45	UNIVERSAL	
20-1000-2	1.000	1.0045	13/16		3/16	45	UNIVERSAL	
20-1000-3	1.000	1.0045	1/2		7/16	45	UNIVERSAL	
20-1062-1	1-1/16	1.0670	7/8		5/32	45	UNIVERSAL	
20-1062-2	1-1/16	1.0670	7/8		3/16	45	UNIVERSAL	
20-1062-3	1-1/16	1.0670	25/32		3/16	45	UNIVERSAL	
20-1062-4	1-1/16	1.0670	25/32		1/4	45	UNIVERSAL	
20-1062-5	1-1/16	1.0670	13/16		3/16	45	UNIVERSAL	
20-1062-6	1-1/16	1.0670	9/16		7/16	45	UNIVERSAL	
20-1125-1	1-1/8	1.1295	7/8		7/32	45	UNIVERSAL	
20-1125-2	1-1/8	1.1295	13/16		3/16	45	UNIVERSAL	
20-1125-3	1-1/8	1.1295	7/8		5/32	45	UNIVERSAL	
20-1125-4	1-1/8	1.1295	7/8		1/4	45	UNIVERSAL	
20-1125-5	1-1/8	1.1295	7/8		3/16	45	UNIVERSAL	
20-1125-6	1-1/8	1.1295	15/16		3/16	45	UNIVERSAL	
20-1125-7	1-1/8	1.1295	7/8		5/16	45	UNIVERSAL	
20-1125-8	1-1/8	1.1295	15/16		7/32	45	UNIVERSAL	
20-1125-9	1-1/8	1.1295	15/16		1/4	45	UNIVERSAL	
20-1125-10	1-1/8	1.1295	3/4		1/4	45	UNIVERSAL	
20-1125-11	1-1/8	1.1295	5/8		7/16	45	UNIVERSAL	
20-1187-1	1-3/16	1.1920	1.000		3/16	45	UNIVERSAL	
20-1187-2	1-3/16	1.1920	7/8		1/4	45	UNIVERSAL	
20-1187-3	1-3/16	1.1920	15/16		9/64	45	UNIVERSAL	
20-1187-4	1-3/16	1.1920	15/16		3/16	45	UNIVERSAL	
20-1187-5	1-3/16	1.1920	15/16		1/4	45	UNIVERSAL	
20-1187-6	1-3/16	1.1920	1.000		1/4	45	UNIVERSAL	
20-1187-7	1-3/16	1.1920	1.000		0.219	45	UNIVERSAL	
20-1187-12	1-3/16	1.1920	11/16		7/16	45	UNIVERSAL	
20-1250-0	1-1/4	1.2545	1.000		3/8	45	UNIVERSAL	
20-1250-1	1-1/4	1.2545	1.000		7/32	45	UNIVERSAL	
20-1250-2	1-1/4	1.2545	1.000		3/16	45	UNIVERSAL	
20-1250-3	1-1/4	1.2545	1.000		1/4	45	UNIVERSAL	
20-1250-4	1-1/4	1.2545	7/8		3/16	45	UNIVERSAL	
20-1250-12	1-1/4	1.2545	1.000		5/16	45	UNIVERSAL	
20-1250-13	1-1/4	1.2545	3/4		7/16	45	UNIVERSAL	
20-1312-0	1-5/16	1.3170	1-1/16		3/8	45	UNIVERSAL	
20-1312-1	1-5/16	1.3170	1-1/16		3/16	45	UNIVERSAL	
20-1312-2	1-5/16	1.3170	1.000		3/16	45	UNIVERSAL	
20-1312-3	1-5/16	1.3170	1.000		7/32	45	UNIVERSAL	
20-1312-4	1-5/16	1.3170	1.000		1/4	45	UNIVERSAL	
20-1312-5	1-5/16	1.3170	1.000		5/16	45	UNIVERSAL	
20-1312-6	1-5/16	1.3170	1-1/16		0.219	45	UNIVERSAL	
20-1312-7	1-5/16	1.3170	1-1/8		3/16	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1312-9	1-5/16	1.3170	1-1/16		1/4	45	UNIVERSAL	
20-1312-10	1-5/16	1.3170	1-1/16		5/16	45	UNIVERSAL	
20-1312-11	1-5/16	1.3170	1-3/32		7/32	45	UNIVERSAL	
20-1312-13	1-5/16	1.3170	1-1/8		7/32	45	UNIVERSAL	
20-1312-16	1-5/16	1.3170	13/16		7/16	45	UNIVERSAL	
20-1375-0	1-3/8	1.3795	1-1/8		3/8	45	UNIVERSAL	
20-1375-1	1-3/8	1.3795	1-1/8		7/32	45	UNIVERSAL	030
20-1375-1N	1-3/8	1.3795	1-1/8		7/32	45	"N" SERIES	
20-1375-2	1-3/8	1.3795	1-1/8		1/4	45	UNIVERSAL	
20-1375-3	1-3/8	1.3795	1-1/16		3/16	45	CON	
20-1375-3N	1-3/8	1.3795	1-1/16		3/16	45	"N" SERIES	
20-1375-4	1-3/8	1.3795	1-1/8		3/16	45	UNIVERSAL	
20-1375-5	1-3/8	1.3795	1-1/8		17/64	45	UNIVERSAL	
20-1375-6	1-3/8	1.3795	1-1/16		7/32	45	UNIVERSAL	
20-1375-7	1-3/8	1.3795	1-1/16		1/4	45	UNIVERSAL	010,020,030
20-1375-8	1-3/8	1.3795	1.000		3/16	45	UNIVERSAL	
20-1375-10	1-3/8	1.3795	15/16		5/16	45	UNIVERSAL	
20-1375-18	1-3/8	1.3795	1-1/16		5/16	45	UNIVERSAL	
20-1375-22	1-3/8	1.3795	1-3/16		7/32	45	UNIVERSAL	
20-1375-25	1-3/8	1.3795	1-3/32		0.203	45	CAS	
20-1375-26	1-3/8	1.3795	1.000		9/32	45	UNIVERSAL	
20-1375-27	1-3/8	1.3795	7/8		7/16	45	UNIVERSAL	
20-1437-0	1-7/16	1.4420	1-3/16		3/8	45	UNIVERSAL	
20-1437-1	1-7/16	1.4420	1-1/4		7/32	45	UNIVERSAL	
20-1437-1N	1-7/16	1.4420	1-1/4		7/32	45	"N" SERIES	
20-1437-2	1-7/16	1.4420	1-7/32		7/32	45	UNIVERSAL	
20-1437-2N	1-7/16	1.4420	1-7/32		7/32	45	"N" SERIES	
20-1437-3	1-7/16	1.4420	1-3/16		7/32	45	UNIVERSAL	010
20-1437-3N	1-7/16	1.4420	1-3/16		7/32	45	"N" SERIES	020
20-1437-4	1-7/16	1.4420	1-1/8		7/32	45	UNIVERSAL	
20-1437-5	1-7/16	1.4420	1-3/16		1/4	45	UNIVERSAL	020
20-1437-6	1-7/16	1.4420	1-1/8		5/16	45	UNIVERSAL	020
20-1437-8	1-7/16	1.4420	1-1/8		1/4	45	UNIVERSAL	
20-1437-9	1-7/16	1.4420	1-1/16		3/16	45	UNIVERSAL	
20-1437-10	1-7/16	1.4420	1-1/8		3/16	45	UNIVERSAL	
20-1437-13	1-7/16	1.4420	1-3/16		5/32	45	UNIVERSAL	
20-1437-14	1-7/16	1.4420	1-7/32		1/4	45	UNIVERSAL	
20-1437-15	1-7/16	1.4420	1.000		3/16	45	UNIVERSAL	
20-1437-17	1-7/16	1.4420	1.000		1/4	45	UNIVERSAL	
20-1437-18	1-7/16	1.4420	1.000		5/16	45	UNIVERSAL	
20-1437-22	1-7/16	1.4420	1-1/16		5/16	45	UNIVERSAL	
20-1437-24	1-7/16	1.4420	1-3/16		3/16	45	UNIVERSAL	
20-1437-25	1-7/16	1.4420	1-3/16		5/16	45	UNIVERSAL	
20-1437-28	1-7/16	1.4420	1-1/4		3/16	45	UNIVERSAL	
20-1437-30	1-7/16	1.4420	1-1/4		5/16	45	UNIVERSAL	
20-1437-32	1-7/16	1.4420	15/16		7/16	45	UNIVERSAL	
20-1500-0	1-1/2	1.5045	1-1/4		3/8	45	UNIVERSAL	
20-1500-1	1-1/2	1.5045	1-1/4		7/32	45	UNIVERSAL	
20-1500-1N	1-1/2	1.5045	1-1/4		7/32	45	"N" SERIES	
20-1500-2	1-1/2	1.5045	1-3/16		7/32	45	UNIVERSAL	
20-1500-3	1-1/2	1.5045	1-1/4		1/4	45	UNIVERSAL	003
20-1500-4	1-1/2	1.5045	1-7/32T	1-11/32	7/32	45	UNIVERSAL	
20-1500-5	1-1/2	1.5045	1-1/8		3/16	45	UNIVERSAL	
20-1500-6	1-1/2	1.5045	1-3/16		1/4	45	UNIVERSAL	
20-1500-8	1-1/2	1.5045	1-1/8		7/32	45	UNIVERSAL	
20-1500-9	1-1/2	1.5045	1-1/8		5/16	45	UNIVERSAL	
20-1500-10	1-1/2	1.5045	1-3/16		5/16	45	UNIVERSAL	
20-1500-11	1-1/2	1.5045	1-7/32		1/4	45	UNIVERSAL	
20-1500-12	1-1/2	1.5045	1-1/4		5/16	45	UNIVERSAL	
20-1500-13	1-1/2	1.5045	1-1/4		3/16	45	UNIVERSAL	
20-1500-19	1-1/2	1.5045	1.000		3/8	45	UNIVERSAL	010,020,030
20-1500-23	1-1/2	1.5045	1-1/16		5/16	45	UNIVERSAL	
20-1500-26	1-1/2	1.5045	1-3/16		3/8	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1500-28	1-1/2	1.5045	1-1/4		9/32	45	UNIVERSAL	
20-1500-29	1-1/2	1.5045	1-5/16		3/16	45	UNIVERSAL	
20-1500-30	1-1/2	1.5045	1-5/16		0.219	45	UNIVERSAL	
20-1500-33	1-1/2	1.5045	1.000		7/16	45	UNIVERSAL	
20-1562-0	1-9/16	1.5670	1-3/16		0.373	45	UNIVERSAL	
20-1562-1	1-9/16	1.5670	1-5/16		7/32	45	UNIVERSAL	005,010,015,030
20-1562-1N	1-9/16	1.5670	1-5/16		0.216	45	"N" SERIES	020
20-1562-2	1-9/16	1.5670	1-5/16T	1-3/8	0.248	45	UNIVERSAL	010,020
20-1562-2N	1-9/16	1.5670	1-5/16T	1-3/8	1/4	45	"N" SERIES	
20-1562-3	1-9/16	1.5670	1-11/32		7/32	45	UNIVERSAL	
20-1562-4	1-9/16	1.5670	1-5/16		1/4	45	UNIVERSAL	010,020,030
20-1562-5	1-9/16	1.5670	1-3/8		1/4	45	UNIVERSAL	
20-1562-6	1-9/16	1.5670	1-1/4		7/32	45	UNIVERSAL	010,020,030
20-1562-6N	1-9/16	1.5670	1-1/4		7/32	45	"N" SERIES	
20-1562-7	1-9/16	1.5670	1-1/4		1/4	45	UNIVERSAL	
20-1562-8	1-9/16	1.5670	1-5/16		7/32	30	IHC, IHN	
20-1562-9	1-9/16	1.5670	1-5/16T	1-3/8	0.216	45	UNIVERSAL	
20-1562-9N	1-9/16	1.5670	1-5/16T	1-3/8	0.216	45	"N" SERIES	
20-1562-11	1-9/16	1.5670	1-3/16		5/16	30	UNIVERSAL	
20-1562-12	1-9/16	1.5670	1-3/8		7/32	45	UNIVERSAL	
20-1562-13	1-9/16	1.5670	1-3/16		7/32	45	UNIVERSAL	
20-1562-14	1-9/16	1.5670	1-1/8		7/32	45	UNIVERSAL	
20-1562-15	1-9/16	1.5670	1-1/8		1/4	45	UNIVERSAL	
20-1562-16	1-9/16	1.5670	1-1/4		3/16	45	UNIVERSAL	
20-1562-16N	1-9/16	1.567	1-1/4		3/16	45	"N" SERIES	
20-1562-17	1-9/16	1.5670	1-1/4		0.3125	45	UNIVERSAL	
20-1562-18	1-9/16	1.5670	1-5/16		5/16	45	UNIVERSAL	
20-1562-19	1-9/16	1.5670	1-3/8		5/16	45	UNIVERSAL	
20-1562-20	1-9/16	1.5670	1-9/32		7/32	45	UNIVERSAL	
20-1562-21	1-9/16	1.5670	1.000		21/64	45	UNIVERSAL	
20-1562-22	1-9/16	1.5670	1-1/16		3/16	45	UNIVERSAL	
20-1562-23	1-9/16	1.5670	1-1/16		7/32	45	UNIVERSAL	
20-1562-25	1-9/16	1.5670	1-1/16		5/16	45	UNIVERSAL	
20-1562-26	1-9/16	1.5670	1-1/16		3/8	45	UNIVERSAL	
20-1562-27	1-9/16	1.5670	1-1/8		3/16	45	UNIVERSAL	
20-1562-28	1-9/16	1.5670	1-1/8		5/16	45	UNIVERSAL	
20-1562-29	1-9/16	1.5670	1-1/8		3/8	45	UNIVERSAL	
20-1562-30	1-9/16	1.5670	1-3/16		3/16	45	UNIVERSAL	
20-1562-31	1-9/16	1.5670	1-3/16		1/4	45	UNIVERSAL	
20-1562-32	1-9/16	1.5670	1-1/4		11/32	45	UNIVERSAL	
20-1562-34	1-9/16	1.5670	1-3/16T	1-1/4	5/16	45	UNIVERSAL	
20-1562-35	1-9/16	1.5676	1-1/4		3/8	45	UNIVERSAL	
20-1562-36	1-9/16	1.5670	1-5/16		3/16	45	UNIVERSAL	
20-1562-36N	1-9/16	1.5670	1-5/16		3/16	45	"N" SERIES	
20-1562-37	1-9/16	1.5670	1-5/16		9/32	45	UNIVERSAL	
20-1562-38	1-9/16	1.5670	1-5/16		11/32	45	UNIVERSAL	
20-1562-39	1-9/16	1.5670	1-5/16		3/8	45	UNIVERSAL	
20-1562-40	1-9/16	1.5670	1-3/8		3/16	45	UNIVERSAL	
20-1562-41	1-9/16	1.5670	1-3/8		3/8	45	UNIVERSAL	
20-1562-42	1-9/16	1.5670	1-3/16T	1-3/8	7/32	45	GM, GM	
20-1562-44	1-9/16	1.5670	1-1/16		7/16	45	UNIVERSAL	
20-1562-46N	1-9/16	1.5680	1-1/4		9/32	45	IDI	
20-H1578	1.775	1.7750	1.433		0.270	45	FDI, FOR	
20-1625-0	1-5/8	1.6300	1-3/8		3/8	45	UNIVERSAL	
20-1625-1	1-5/8	1.6300	1-3/8		7/32	45	UNIVERSAL	005,010,015,020,030
20-1625-1N	1-5/8	1.6300	1-3/8		7/32	45	"N" SERIES	
20-1625-2	1-5/8	1.6300	1-3/8		0.248	45	UNIVERSAL	010,020
20-1625-2N	1-5/8	1.6300	1-3/8		1/4	45	"N" SERIES	010,020
20-1625-3	1-5/8	1.6300	1-5/16		1/4	45	UNIVERSAL	010
20-1625-3N	1-5/8	1.6300	1-5/16		0.248	45	"N"SERIES	
20-1625-4	1-5/8	1.6300	1-5/16		7/32	45	UNIVERSAL	020
20-1625-4N	1-5/8	1.6300	1-5/16		7/32	45	"N" SERIES	020
20-1625-5	1-5/8	1.6300	1-11/32		1/4	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1625-6	1-5/8	1.6300	1-1/4		1/4	45	UNIVERSAL	
20-1625-7	1-5/8	1.6300	1-1/4		5/16	45	UNIVERSAL	
20-1625-8	1-5/8	1.6300	1-3/16		3/8	45	UNIVERSAL	
20-1625-9	1-5/8	1.6300	1-1/4		7/32	45	UNIVERSAL	
20-1625-10	1-5/8	1.6300	1-5/16		5/16	45	UNIVERSAL	
20-1625-11	1-5/8	1.6300	1-11/32		7/32	45	UNIVERSAL	006
20-1625-14	1-5/8	1.6300	1-3/8		5/16	45	UNIVERSAL	
20-1625-15	1-5/8	1.6300	1-3/8		17/64	45	UNIVERSAL	
20-1625-16	1-5/8	1.6300	1-3/8		5/32	45	UNIVERSAL	
20-1625-17	1-5/8	1.6300	1-7/16		7/32	45	UNIVERSAL	
20-1625-18	1-5/8	1.6300	1-5/16		9/32	45	UNIVERSAL	
20-1625-19	1-5/8	1.6300	1-3/16		7/32	45	UNIVERSAL	
20-1625-20	1-5/8	1.6300	1-5/16		0.395	45	CHI, CHM	
20-1625-24	1-5/8	1.6300	1-1/8		11/32	45	UNIVERSAL	
20-1625-25	1-5/8	1.6300	1-3/16		1/4	45	UNIVERSAL	
20-1625-27	1-5/8	1.6300	1-1/4		3/16	45	UNIVERSAL	
20-1625-28	1-5/8	1.6300	1-1/4		11/32	45	UNIVERSAL	
20-1625-29	1-5/8	1.6300	1-1/4		3/8	45	UNIVERSAL	
20-1625-30	1-5/8	1.6300	1-5/16		3/16	45	UNIVERSAL	
20-1625-31	1-5/8	1.6300	1-11/32		3/16	45	UNIVERSAL	
20-1625-32	1-5/8	1.6300	1-11/32		3/8	45	UNIVERSAL	
20-1625-33	1-5/8	1.6300	1-3/8		3/16	45	UNIVERSAL	
20-1625-34	1-5/8	1.6300	1-3/8		11/32	45	UNIVERSAL	
20-1625-35	1-5/8	1.6300	1-7/16		3/16	45	UNIVERSAL	
20-1625-36	1-5/8	1.6300	1-7/16		1/4	45	UNIVERSAL	
20-1625-37	1-5/8	1.6300	1-7/16		5/16	45	UNIVERSAL	
20-1625-38	1-5/8	1.6300	1-7/16		3/8	45	UNIVERSAL	
20-1625-39	1-5/8	1.6300	1-13/32		1/4	45	UNIVERSAL	
20-1625-40	1-5/8	1.6300	1-5/16T	1-3/8	7/32	45	UNIVERSAL	
20-1625-41	1-5/8	1.6300	1-1/8		7/16	45	UNIVERSAL	
20-1687-0	1-11/16	1.6925	1-5/16		3/8	45	UNIVERSAL	
20-1687-1	1-11/16	1.6925	1-13/32		1/4	45	UNIVERSAL	010,030
20-1687-1N	1-11/16	1.6925	1-13/32		0.248	45	"N" SERIES	
20-1687-2	1-11/16	1.6925	1-7/16		7/32	45	UNIVERSAL	010
20-1687-2N	1-11/16	1.6925	1-7/16		7/32	45	"N" SERIES	
20-1687-3	1-11/16	1.6925	1-7/16		1/4	45	UNIVERSAL	
20-1687-3N	1-11/16	1.6925	1-7/16		1/4	45	"N" SERIES	
20-1687-4	1-11/16	1.6925	1-11/32		5/16	45	UNIVERSAL	
20-1687-4N	1-11/16	1.6925	1-11/32		5/16	45	"N" SERIES	
20-1687-5	1-11/16	1.6925	1-3/8		7/32	45	UNIVERSAL	020
20-1687-5N	1-11/16	1.6925	1-3/8		7/32	45	"N" SERIES	020
20-1687-6	1-11/16	1.6925	1-5/16		1/4	45	UNIVERSAL	
20-1687-7	1-11/16	1.6925	1-3/8		1/4	45	UNIVERSAL	005
20-1687-8	1-11/16	1.6925	1-3/8		5/16	45	UNIVERSAL	
20-1687-9	1-11/16	1.6925	1-5/16		7/32	45	UNIVERSAL	
20-1687-9N	1-11/16	1.6925	1-5/16		7/32	45	"N" SERIES	
20-1687-10	1-11/16	1.6925	1-3/8T	1-7/16	5/16	45	UNIVERSAL	
20-1687-10N	1-11/16	1.6925	1-3/8T	1-7/16	5/16	45	"N" SERIES	
20-1687-11	1-11/16	1.6925	1-5/16		5/16	45	UNIVERSAL	
20-1687-12	1-11/16	1.6925	1-3/8		0.373	45	UNIVERSAL	
20-1687-13	1-11/16	1.6925	1-7/16		5/16	45	UNIVERSAL	030
20-1687-14	1-11/16	1.6925	1-7/16		3/8	45	UNIVERSAL	
20-1687-15	1-11/16	1.6925	1-7/16		5/32	45	UNIVERSAL	
20-1687-16	1-11/16	1.6925	1-7/16		3/16	45	UNIVERSAL	
20-1687-17	1-11/16	1.6925	1-1/2		7/32	45	UNIVERSAL	
20-1687-18	1-11/16	1.6925	1-3/8		9/32	45	UNIVERSAL	
20-1687-19	1-11/16	1.6925	1-1/4		1/4	45	UNIVERSAL	
20-1687-21	1-11/16	1.6925	1-1/4		3/16	45	UNIVERSAL	
20-1687-22	1-11/16	1.6925	1-1/4		7/32	45	UNIVERSAL	
20-1687-23	1-11/16	1.6925	1-1/4		5/16	45	UNIVERSAL	
20-1687-24	1-11/16	1.6925	1-5/16		3/16	45	UNIVERSAL	
20-1687-26	1-11/16	1.6925	1-11/32		3/16	45	UNIVERSAL	
20-1687-27	1-11/16	1.6925	1-11/32		7/32	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1687-28	1-11/16	1.6925	1-11/32		1/4	45	UNIVERSAL	
20-1687-29	1-11/16	1.6925	1-3/8		3/16	45	UNIVERSAL	
20-1687-30	1-11/16	1.6925	1-3/8		11/32	45	UNIVERSAL	
20-1687-32	1-11/16	1.6925	1-1/2		3/16	45	UNIVERSAL	
20-1687-33	1-11/16	1.6925	1-1/2		1/4	45	UNIVERSAL	
20-1687-34	1-11/16	1.6925	1-3/8T	1-7/16	7/32	45	UNIVERSAL	
20-1687-35	1-11/16	1.6925	1-1/2		3/8	45	UNIVERSAL	
20-1687-40	1-11/16	1.6925	1-13/32		5/16	45	UNIVERSAL	
20-1687-41	1-11/16	1.6925	1-1/2		5/16	45	UNIVERSAL	
20-1687-42	1-11/16	1.6925	1-3/16		7/16	45	UNIVERSAL	
20-1750-0	1-3/4	1.7550	1-3/8		3/8	45	UNIVERSAL	
20-1750-1	1-3/4	1.7550	1-1/2		1/4	45	UNIVERSAL	010
20-1750-1N	1-3/4	1.7550	1-1/2		1/4	45	"N" SERIES	
20-1750-2	1-3/4	1.7550	1-1/2		7/32	45	UNIVERSAL	010
20-1750-2N	1-3/4	1.7550	1-1/2		7/32	45	"N" SERIES	020
20-1750-3	1-3/4	1.7550	1-7/16		7/32	45	UNIVERSAL	010,020
20-1750-3N	1-3/4	1.7550	1-7/16		7/32	45	"N" SERIES	
20-1750-4	1-3/4	1.7550	1-7/16		1/4	45	UNIVERSAL	
20-1750-4N	1-3/4	1.7550	1-7/16		1/4	45	"N" SERIES	
20-1750-5	1-3/4	1.7550	1-7/16		5/16	45	UNIVERSAL	
20-1750-6	1-3/4	1.7550	1-5/16		1/4	45	UNIVERSAL	
20-1750-7	1-3/4	1.7550	1-3/8		7/32	45	UNIVERSAL	
20-1750-8	1-3/4	1.7550	1-3/8		1/4	45	UNIVERSAL	
20-1750-8N	1-3/4	1.7550	1-3/8		1/4	45	"N" SERIES	
20-1750-9	1-3/4	1.7550	1-3/8		5/16	45	UNIVERSAL	
20-1750-10	1-3/4	1.7550	1-1/4		1/4	45	UNIVERSAL	
20-1750-11	1-3/4	1.7550	1-7/16		3/16	45	UNIVERSAL	
20-1750-12	1-3/4	1.7550	1.438T	1.610	0.203	45	DDA	
20-1750-13	1-3/4	1.7550	1-1/2		5/16	45	UNIVERSAL	
20-1750-14	1-3/4	1.7550	1-3/8		23/64	45	UNIVERSAL	
20-1750-15	1-3/4	1.7550	1-3/8		9/32	45	UNIVERSAL	
20-1750-17	1-3/4	1.7550	1-5/16		5/16	45	UNIVERSAL	
20-1750-18	1-3/4	1.7550	1-1/4		3/16	45	UNIVERSAL	
20-1750-19	1-3/4	1.7550	1-1/4		7/32	45	UNIVERSAL	
20-1750-20	1-3/4	1.7550	1-1/4		5/16	45	UNIVERSAL	
20-1750-22	1-3/4	1.7550	1-5/16		3/16	45	UNIVERSAL	
20-1750-23	1-3/4	1.7550	1-5/16		7/32	45	UNIVERSAL	
20-1750-24	1-3/4	1.7550	1-5/16		3/8	45	UNIVERSAL	
20-1750-25	1-3/4	1.7550	1-5/16		7/16	45	UNIVERSAL	
20-1750-29	1-3/4	1.7550	1-3/8		3/16	45	UNIVERSAL	
20-1750-30	1-3/4	1.7550	1-3/8T	1-9/16	7/32	45	UNIVERSAL	
20-1750-32	1-3/4	1.7550	1-7/16		3/8	45	UNIVERSAL	
20-1750-33	1-3/4	1.7550	1-7/16		7/16	45	UNIVERSAL	
20-1750-34	1-3/4	1.7550	1-1/2		3/16	45	UNIVERSAL	
20-1750-36	1-3/4	1.7550	1-1/2		3/8	45	UNIVERSAL	
20-1750-38	1-3/4	1.7550	1-9/16		7/32	45	UNIVERSAL	
20-1750-39	1-3/4	1.7550	1-9/16		1/4	45	UNIVERSAL	
20-1750-40	1-3/4	1.7550	1-9/16		5/16	45	UNIVERSAL	
20-1750-41	1-3/4	1.7550	1-9/16		3/8	45	UNIVERSAL	
20-1750-42	1-3/4	1.7550	1-9/16		3/16	45	UNIVERSAL	
20-1750-43	1-3/4	1.7550	1-1/4		7/16	45	UNIVERSAL	
20-H1759	2-1/4	2.2560	1.9375		0.1875	45	FDI, FOR	
20-1812-0	1-13/16	1.8175	1-7/16		3/8	45	UNIVERSAL	
20-1812-1	1-13/16	1.8175	1-9/16		1/4	45	UNIVERSAL	020
20-1812-1N	1-13/16	1.8175	1-9/16		1/4	45	"N" SERIES	
20-1812-2	1-13/16	1.8175	1-1/2		7/32	45	UNIVERSAL	
20-1812-3	1-13/16	1.8175	1.500T	1-5/8	7/32	45	UNIVERSAL	
20-1812-4	1-13/16	1.8175	1-9/16		7/32	45	UNIVERSAL	
20-1812-4N	1-13/16	1.8175	1-9/16		7/32	45	"N" SERIES	
20-1812-5	1-13/16	1.8175	1-1/2		1/4	45	UNIVERSAL	030
20-1812-5N	1-13/16	1.8175	1-1/2		1/4	45	"N" SERIES	
20-1812-6	1-13/16	1.8175	1-15/32		1/4	45	UNIVERSAL	
20-1812-7	1-13/16	1.8175	1-7/16		1/4	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1812-8	1-13/16	1.8175	1-1/2T	1-9/16	7/32	45	UNIVERSAL	
20-1812-9	1-13/16	1.8175	1-1/2		5/16	45	UNIVERSAL	
20-1812-9N	1-13/16	1.8175	1-1/2		5/16	45	"N" SERIES	
20-1812-10	1-13/16	1.8175	1-9/16		5/16	45	UNIVERSAL	
20-1812-11	1-13/16	1.8175	1-7/16		5/16	45	UNIVERSAL	
20-1812-12	1-13/16	1.8175	1-5/8		7/32	45	UNIVERSAL	
20-1812-13	1-13/16	1.8175	1-3/8		7/32	45	UNIVERSAL	
20-1812-14	1-13/16	1.8175	1-3/8		1/4	45	UNIVERSAL	
20-1812-15	1-13/16	1.8175	1-3/8		5/16	45	UNIVERSAL	
20-1812-16	1-13/16	1.8175	1-3/8		3/8	45	UNIVERSAL	
20-1812-17	1-13/16	1.8175	1-7/16		7/32	45	UNIVERSAL	
20-1812-18	1-13/16	1.8175	1-1/2		3/8	45	UNIVERSAL	
20-1812-19	1-13/16	1.8175	1-9/16		3/8	45	UNIVERSAL	
20-1812-20	1-13/16	1.8175	1-1/2		7/16	45	UNIVERSAL	
20-1812-21N	1-13/16	1.8175	1-15/32		5/16	45	"N" SERIES	
20-1812-22	1-13/16	1.8175	1-7/16		7/16	45	UNIVERSAL	
20-1812-25	1-13/16	1.8175	1-5/16		3/8	45	UNIVERSAL	
20-1812-26	1-13/16	1.8175	1-5/16		7/16	45	UNIVERSAL	
20-1812-32	1-13/16	1.8175	1-3/8		3/16	45	UNIVERSAL	
20-1812-34	1-13/16	1.8175	1-1/2		3/16	45	UNIVERSAL	
20-1812-35	1-13/16	1.8175	1-1/2		11/32	45	UNIVERSAL	
20-1812-36	1-13/16	1.8175	1-9/16		3/16	45	UNIVERSAL	
20-1812-37	1-13/16	1.8175	1-9/16		7/16	45	UNIVERSAL	
20-1812-38	1-13/16	1.8175	1-5/8		1/4	45	UNIVERSAL	
20-1812-39	1-13/16	1.8175	1-5/8		5/16	45	UNIVERSAL	
20-1812-40	1-13/16	1.8175	1-5/8		3/8	45	UNIVERSAL	
20-1875-0	1-7/8	1.8800	1-1/2		3/8	45	UNIVERSAL	
20-1875-1	1-7/8	1.8800	1-5/8		1/4	45	UNIVERSAL	010,020,030
20-1875-1N	1-7/8	1.8800	1-5/8		1/4	45	"N" SERIES	
20-1875-2	1-7/8	1.8800	1-9/16		1/4	45	UNIVERSAL	
20-1875-4	1-7/8	1.8800	1-5/8		9/32	45	UNIVERSAL	
20-1875-5	1-7/8	1.8800	1-3/8		1/4	45	UNIVERSAL	
20-1875-6	1-7/8	1.8800	1-5/8		7/32	45	UNIVERSAL	
20-1875-7	1-7/8	1.8800	1-19/32		1/4	45	UNIVERSAL	005,010,020
20-1875-8	1-7/8	1.8800	1-1/2T	1-5/8	7/32	45	UNIVERSAL	
20-1875-9	1-7/8	1.8800	1-1/2		1/4	45	UNIVERSAL	
20-1875-11	1-7/8	1.8800	1-9/16		5/16	45	UNIVERSAL	
20-1875-12	1-7/8	1.8800	1-7/16		1/4	45	UNIVERSAL	
20-1875-13	1-7/8	1.8800	1-1/2		7/32	45	UNIVERSAL	
20-1875-14	1-7/8	1.8800	1-1/2		5/16	45	UNIVERSAL	
20-1875-16	1-7/8	1.8800	1-9/16		3/8	45	UNIVERSAL	
20-1875-17	1-7/8	1.8800	1-5/8		5/16	45	UNIVERSAL	
20-1875-18	1-7/8	1.8800	1-5/8		3/8	45	UNIVERSAL	
20-1875-19	1-7/8	1.8800	1-9/16		7/32	45	UNIVERSAL	
20-1875-20	1-7/8	1.8800	1-11/16		7/32	45	UNIVERSAL	
20-1875-21	1-7/8	1.8800	1-1/2		7/16	45	UNIVERSAL	
20-1875-28	1-7/8	1.8800	1-9/16		5/32	45	UNIVERSAL	
20-1875-29	1-7/8	1.8800	1-9/16		7/16	45	UNIVERSAL	
20-1875-30	1-7/8	1.8800	1-7/16		3/16	45	UNIVERSAL	
20-1875-32	1-7/8	1.8800	1-7/16		5/16	45	UNIVERSAL	
20-1875-33	1-7/8	1.8800	1-7/16		3/8	45	UNIVERSAL	
20-1875-34	1-7/8	1.8800	1-7/16		7/16	45	UNIVERSAL	
20-1875-35	1-7/8	1.8800	1-11/16		1/4	45	UNIVERSAL	
20-1875-36	1-7/8	1.8800	1-11/16		5/16	45	UNIVERSAL	
20-1875-37	1-7/8	1.8800	1-11/16		3/8	45	UNIVERSAL	
20-1875-38	1-7/8	1.8800	1-5/8		3/16	45	UNIVERSAL	
20-1875-39	1-7/8	1.8800	1-3/8		7/16	45	UNIVERSAL	
20-1937-0	1-15/16	1.9430	1-9/16		3/8	45	UNIVERSAL	
20-1937-1	1-15/16	1.9430	1-11/16		1/4	45	UNIVERSAL	010
20-1937-2	1-15/16	1.9430	1-5/8		1/4	45	UNIVERSAL	010,020,030
20-1937-3	1-15/16	1.9430	1-9/16		5/16	45	UNIVERSAL	
20-1937-4	1-15/16	1.9430	1-9/16		1/4	45	UNIVERSAL	
20-1937-4N	1-15/16	1.9430	1-9/16		1/4	45	"N" SERIES	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1937-5	1-15/16	1.9430	1-5/8		9/32	45	UNIVERSAL	
20-1937-6	1-15/16	1.9430	1-5/8		7/32	45	UNIVERSAL	
20-1937-7	1-15/16	1.9430	1-5/8		5/16	45	UNIVERSAL	
20-1937-8	1-15/16	1.9430	1-5/8		3/8	45	UNIVERSAL	
20-1937-9	1-15/16	1.9430	1-1/2		1/4	45	UNIVERSAL	
20-1937-10	1-15/16	1.9430	1-1/2		3/8	45	UNIVERSAL	
20-1937-12	1-15/16	1.9430	1.578T	1.720	0.203	30	DDA	
20-1937-15	1-15/16	1.9430	1-11/16		9/32	45	UNIVERSAL	
20-1937-17	1-15/16	1.9430	1-11/16		7/32	45	UNIVERSAL	
20-1937-18	1-15/16	1.9430	1-5/8T	1-25/32	0.238	45	GM	
20-1937-19	1-15/16	1.9430	1-3/4		7/32	45	UNIVERSAL	
20-1937-20	1-15/16	1.9430	1-1/2		5/16	45	UNIVERSAL	
20-1937-22	1-15/16	1.9430	1-5/8		7/16	45	UNIVERSAL	
20-1937-23	1-15/16	1.9430	1-11/16		3/16	45	UNIVERSAL	
20-1937-26	1-15/16	1.9430	1-1/2		7/16	45	UNIVERSAL	
20-1937-27	1-15/16	1.9430	1-9/16		7/32	45	UNIVERSAL	
20-1937-30	1-15/16	1.9430	1-11/16		5/16	45	UNIVERSAL	
20-1937-31	1-15/16	1.9430	1-11/16		3/8	45	UNIVERSAL	
20-1937-32	1-15/16	1.9430	1-11/16		7/16	45	UNIVERSAL	
20-1937-33	1-15/16	1.9430	1-3/4		1/4	45	UNIVERSAL	
20-1937-34	1-15/16	1.9430	1-11/16	1-3/4	7/32	45	UNIVERSAL	
20-1937-35	1-15/16	1.9430	1-3/4		5/16	45	UNIVERSAL	
20-1937-36	1-15/16	1.9430	1-3/4		3/8	45	UNIVERSAL	
20-1937-37	1-15/16	1.9430	1-3/4		7/16	45	UNIVERSAL	
20-1937-39	1-15/16	1.9425	1-7/16		7/16	45	UNIVERSAL	
20-2000-0	2	2.0055	1-5/8		3/8	45	UNIVERSAL	
20-2000-1	2	2.0055	1-3/4		7/32	45	UNIVERSAL	020
20-2000-1N	2	2.0055	1-3/4		7/32	45	"N" SERIES	
20-2000-2	2	2.0055	1-11/16		9/32	45	HAR, IHC	
20-2000-3	2	2.0055	1-5/8		19/64	45	CON	
20-2000-3N	2	2.0055	1-5/8		19/64	45	"N" SERIES	
20-2000-3S	2	2.0055	1-5/8		19/64	45	IHN	
20-2000-4	2	2.0055	1-11/16		3/8	45	UNIVERSAL	
20-2000-6	2	2.0055	1-5/8		9/32	45	UNIVERSAL	
20-2000-7	2	2.0055	1-13/16		7/32	45	UNIVERSAL	
20-2000-8	2	2.0055	1-7/16		1/4	45	UNIVERSAL	
20-2000-9	2	2.0055	1-1/2		3/8	45	UNIVERSAL	
20-2000-10	2	2.0055	1-9/16		1/4	45	UNIVERSAL	
20-2000-11	2	2.0055	1-9/16		5/16	45	UNIVERSAL	
20-2000-12	2	2.0055	1-5/8		7/32	45	UNIVERSAL	
20-2000-13	2	2.0055	1-5/8		1/4	45	UNIVERSAL	005,010
20-2000-13N	2	2.0055	1-5/8		1/4	45	"N" SERIES	005,010
20-2000-14	2	2.0055	1-5/8		5/16	45	UNIVERSAL	
20-2000-15	2	2.0055	1-11/16		7/32	45	UNIVERSAL	
20-2000-16	2	2.0055	1-11/16		1/4	45	UNIVERSAL	
20-2000-17	2	2.0055	1-3/4		1/4	45	UNIVERSAL	
20-2000-18	2	2.0055	1-3/4		5/16	45	UNIVERSAL	
20-2000-19	2	2.0055	1-3/4		3/8	45	UNIVERSAL	
20-2000-20	2	2.0055	1-3/4		9/32	45	UNIVERSAL	
20-2000-21	2	2.0055	1-5/8		11/32	45	UNIVERSAL	
20-2000-22	2	2.0055	1-3/4		5/32	45	UNIVERSAL	
20-2000-23	2	2.0055	1-5/8T	1-13/16	1/4	45	UNIVERSAL	
20-2000-24	2	2.0055	1-1/2		7/16	45	UNIVERSAL	
20-2000-25	2	2.0055	1.600		9/32	45	UNIVERSAL	
20-2000-27	2	2.0055	1-5/8		7/16	45	UNIVERSAL	
20-2000-29	2	2.0055	1-11/16		5/16	45	UNIVERSAL	
20-2000-33	2	2.0055	1-9/16		7/32	45	UNIVERSAL	
20-2000-34	2	2.0055	1-9/16		3/8	45	UNIVERSAL	
20-2000-35	2	2.0055	1-11/16		7/16	45	UNIVERSAL	
20-2000-36	2	2.0055	1-3/4		3/16	45	UNIVERSAL	
20-2000-37	2	2.0055	1-3/4		7/16	45	UNIVERSAL	
20-2000-38	2	2.0055	1-13/16		1/4	45	UNIVERSAL	
20-2062-1	2-1/16	2.0680	1-13/16	1-7/8	1/4	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-2062-2	2-1/16	2.0680	1-3/4		5/16	45	UNIVERSAL	
20-2062-3	2-1/16	2.0680	1-13/16		1/4	45	UNIVERSAL	
20-2062-4	2-1/16	2.0680	1-11/16		1/4	45	UNIVERSAL	
20-2062-5	2-1/16	2.0680	1-11/16		5/16	45	UNIVERSAL	
20-2062-6	2-1/16	2.0680	1-9/16		1/4	45	UNIVERSAL	
20-2062-7	2-1/16	2.0680	1-5/8		9/32	45	UNIVERSAL	
20-2062-8	2-1/16	2.0680	1-11/16		9/32	45	UNIVERSAL	
20-2062-9	2-1/16	2.0680	1-5/8		7/16	45	WAU	
20-2062-11	2-1/16	2.0680	1-5/8		1/4	45	UNIVERSAL	
20-2062-13	2-1/16	2.0680	1-9/16		3/8	45	UNIVERSAL	
20-2062-14	2-1/16	2.0680	1-9/16		1/2	45	UNIVERSAL	
20-2062-15	2-1/16	2.0680	1-5/8		3/8	45	UNIVERSAL	
20-2062-18	2-1/16	2.0680	1-9/16		7/32	45	UNIVERSAL	
20-2062-19	2-1/16	2.0680	1-9/16		5/16	45	UNIVERSAL	
20-2062-20	2-1/16	2.0680	1-9/16		7/16	45	UNIVERSAL	
20-2062-21	2-1/16	2.0680	1-5/8		5/16	45	UNIVERSAL	
20-2062-22	2-1/16	2.0680	1-11/16		7/32	45	UNIVERSAL	
20-2062-23	2-1/16	2.0680	1-11/16		3/8	45	UNIVERSAL	
20-2062-24	2-1/16	2.0680	1-11/16		7/16	45	UNIVERSAL	
20-2062-25	2-1/16	2.0680	1-3/4		7/32	45	UNIVERSAL	
20-2062-27	2-1/16	2.0680	1-3/4		5/16	45	UNIVERSAL	
20-2062-28	2-1/16	2.0680	1-3/4		11/32	45	UNIVERSAL	
20-2062-29	2-1/16	2.0680	1-13/16		7/32	45	UNIVERSAL	
20-2062-30	2-1/16	2.0680	1-13/16		3/16	45	UNIVERSAL	
20-2062-31	2-1/16	2.0680	1-13/16		5/16	45	UNIVERSAL	
21-2062-50	2-1/16	2.0695	1.750		0.4200	45	GM	
20-2125-0	2-1/8	2.1305	1-3/4		3/8	45	UNIVERSAL	
20-2125-1	2-1/8	2.1305	1-13/16		1/4	45	UNIVERSAL	
20-2125-2	2-1/8	2.1305	1-7/8		1/4	45	UNIVERSAL	020
20-2125-4	2-1/8	2.1305	1-29/32		1/4	45	UNIVERSAL	
20-2125-5	2-1/8	2.1305	1-3/4T	1-13/16	1/4	45	UNIVERSAL	
20-2125-6	2-1/8	2.1305	1-5/8		9/32	45	UNIVERSAL	
20-2125-7	2-1/8	2.1305	1-3/4		1/4	45	UNIVERSAL	
20-2125-8	2-1/8	2.1305	1-3/4		5/16	45	UNIVERSAL	
20-2125-9	2-1/8	2.1305	1-11/16		9/32	45	UNIVERSAL	
20-2125-10	2-1/8	2.1305	1-3/4		9/32	45	UNIVERSAL	
20-2125-11	2-1/8	2.1305	1-3/4		7/32	45	UNIVERSAL	
20-2125-12	2-1/8	2.1305	1-5/8		7/16	45	UNIVERSAL	
20-2125-13	2-1/8	2.1305	1-13/16		7/16	45	UNIVERSAL	
20-2125-15	2-1/8	2.1305	1-11/16		5/16	30	UNIVERSAL	
20-2125-16	2-1/8	2.1305	1-11/16		1/4	45	UNIVERSAL	
20-2125-17	2-1/8	2.1305	1-23/32		9/32	30	UNIVERSAL	
20-2125-18	2-1/8	2.1305	1-9/16		7/32	45	UNIVERSAL	
20-2125-19	2-1/8	2.1305	1-9/16		1/4	45	UNIVERSAL	
20-2125-20	2-1/8	2.1305	1-9/16		5/16	45	UNIVERSAL	
20-2125-21	2-1/8	2.1305	1-9/16		3/8	45	UNIVERSAL	
20-2125-22	2-1/8	2.1305	1-9/16		7/16	45	UNIVERSAL	
20-2125-24	2-1/8	2.1305	1-5/8		1/4	45	UNIVERSAL	
20-2125-26	2-1/8	2.1305	1-5/8		3/8	45	UNIVERSAL	
20-2125-28	2-1/8	2.1305	1-11/16		3/8	45	UNIVERSAL	
20-2125-29	2-1/8	2.1305	1-11/16		7/16	45	UNIVERSAL	
20-2125-30	2-1/8	2.1305	1-3/4		7/16	45	UNIVERSAL	
20-2125-31	2-1/8	2.1305	1-13/16		7/32	45	UNIVERSAL	
20-2125-32	2-1/8	2.1305	1-13/16		5/16	45	UNIVERSAL	
20-2125-33	2-1/8	2.1305	1-13/16		3/8	45	UNIVERSAL	
20-2125-34	2-1/8	2.1305	1-7/8		7/32	45	UNIVERSAL	
20-2125-36	2-1/8	2.1305	1-15/16		1/4	45	UNIVERSAL	
20-2125-37	2-1/8	2.1305	1-15/16		5/16	45	UNIVERSAL	
20-2125-38	2-1/8	2.1305	1-13/16		3/16	45	GDI, GM	
20-2125-39	2-1/8	2.1305	1-15/16		7/32	45	UNIVERSAL	
20-2187-1	2-3/16	2.1930	1-13/16		1/4	45	UNIVERSAL	
20-2187-1S	2-3/16	2.1930	1-13/16		1/4	45	MIN	010,062
20-2187-2	2-3/16	2.1930	1-13/16		9/32	45	UNIVERSAL	



# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-2187-3	2-3/16	2.1930	1-3/4		9/32	45	UNIVERSAL	
20-2187-4	2-3/16	2.1930	1-7/8		9/32	45	UNIVERSAL	
20-2187-5	2-3/16	2.1930	1-11/16		1/4	30	UNIVERSAL	
20-2187-7	2-3/16	2.1930	1-3/4		7/16	45	UNIVERSAL	
20-2187-8	2-3/16	2.1930	1-3/4		3/8	45	UNIVERSAL	
20-2187-9	2-3/16	2.1930	1-13/16		3/8	45	UNIVERSAL	
20-2187-10	2-3/16	2.1930	1-13/16		1/2	45	UNIVERSAL	
20-2187-11	2-3/16	2.1930	1-7/8		3/16	45	UNIVERSAL	
20-2187-12	2-3/16	2.1930	1-7/8		1/4	45	UNIVERSAL	
20-2187-13	2-3/16	2.1930	1-11/16		9/32	45	UNIVERSAL	
20-2187-15	2-3/16	2.1930	1-3/4		7/32	45	UNIVERSAL	
20-2187-16	2-3/16	2.1930	1-3/4		1/4	45	UNIVERSAL	
20-2187-17	2-3/16	2.1930	1-3/4		5/16	45	UNIVERSAL	
20-2187-18	2-3/16	2.1930	1-13/16		7/32	45	UNIVERSAL	
20-2187-19	2-3/16	2.1930	1-13/16		5/16	45	UNIVERSAL	
20-2187-20	2-3/16	2.1930	1-13/16		11/32	45	UNIVERSAL	
20-2187-21	2-3/16	2.1930	1-13/16		7/16	45	UNIVERSAL	
20-2187-23	2-3/16	2.1930	1-7/8		5/16	45	UNIVERSAL	
20-2187-25	2-3/16	2.1930	1-7/8		7/16	45	UNIVERSAL	
20-2187-26	2-3/16	2.1930	1-15/16		7/32	45	UNIVERSAL	
20-2187-27	2-3/16	2.1930	1-15/16		1/4	45	UNIVERSAL	
20-2187-28	2-3/16	2.1930	1-15/16		5/16	45	UNIVERSAL	
20-2187-29	2-3/16	2.1930	1-15/16		3/8	45	UNIVERSAL	
20-2187-30	2-3/16	2.1930	1-15/16		7/16	45	UNIVERSAL	
20-2187-31	2-3/16	2.1930	1-11/16		7/16	45	UNIVERSAL	
20-2250-1	2-1/4	2.2555	1-15/16		3/16	45	UNIVERSAL	010
20-2250-2	2-1/4	2.2555	1-7/8		9/32	45	UNIVERSAL	
20-2250-4	2-1/4	2.2555	1-11/16		1/4	45	UNIVERSAL	
20-2250-5	2-1/4	2.2555	1-3/4		7/32	45	UNIVERSAL	
20-2250-6	2-1/4	2.2555	1-3/4		9/32	45	UNIVERSAL	
20-2250-7	2-1/4	2.2555	1-3/4		3/8	45	UNIVERSAL	
20-2250-8	2-1/4	2.2555	1-13/16		1/4	45	UNIVERSAL	
20-2250-9	2-1/4	2.2555	1-7/8		1/4	45	UNIVERSAL	
20-2250-10	2-1/4	2.2555	2.000		9/32	45	UNIVERSAL	
20-2250-11	2-1/4	2.2555	1-13/16		9/32	45	UNIVERSAL	
20-2250-12	2-1/4	2.2555	1-15/16		9/32	45	UNIVERSAL	
20-2250-13	2-1/4	2.2555	1-7/8		3/8	45	UNIVERSAL	
20-2250-14	2-1/4	2.2555	1-25/32		1/4	45	UNIVERSAL	
20-2250-15	2-1/4	2.2555	1-15/16		1/4	45	UNIVERSAL	
20-2250-16	2-1/4	2.2555	1-5/8		3/8	45	UNIVERSAL	
20-2250-17	2-1/4	2.2555	1-3/4		7/16	45	UNIVERSAL	
20-2250-18	2-1/4	2.2555	1-13/16		7/16	45	UNIVERSAL	
20-2250-20	2-1/4	2.2555	1-7/8		5/16	45	UNIVERSAL	
20-2250-21	2-1/4	2.2555	1-5/8		5/16	45	UNIVERSAL	
20-2250-22	2-1/4	2.2555	1-5/8		7/16	45	UNIVERSAL	
20-2250-23	2-1/4	2.2555	1-11/16		7/32	45	UNIVERSAL	
20-2250-24	2-1/4	2.2555	1-11/16		5/16	45	UNIVERSAL	
20-2250-25	2-1/4	2.2555	1-11/16		3/8	45	UNIVERSAL	
20-2250-26	2-1/4	2.2555	1-11/16		7/16	45	UNIVERSAL	
20-2250-27	2-1/4	2.2555	1-3/4		1/4	45	UNIVERSAL	
20-2250-28	2-1/4	2.2555	1-3/4		5/16	45	UNIVERSAL	
20-2250-29	2-1/4	2.2555	1-13/16		3/16	45	UNIVERSAL	
20-2250-31	2-1/4	2.2555	1-13/16		5/16	45	UNIVERSAL	
20-2250-32	2-1/4	2.2555	1-13/16		11/32	45	UNIVERSAL	
20-2250-35	2-1/4	2.2555	1-15/16		7/32	45	UNIVERSAL	
20-2250-36	2-1/4	2.2555	2.000		7/32	45	UNIVERSAL	
20-2250-37	2-1/4	2.2555	2.000		1/4	45	UNIVERSAL	
20-2312-1	2-5/16	2.3180	1-7/8		9/32	45	UNIVERSAL	
20-2312-2	2-5/16	2.3180	1-15/16		9/32	45	UNIVERSAL	
20-2312-3	2-5/16	2.3180	1-13/16		9/32	45	UNIVERSAL	
20-2312-4	2-5/16	2.3180	2.000		9/32	45	UNIVERSAL	
20-2312-6	2-5/16	2.3180	1-3/4		1/4	30	UNIVERSAL	
20-2312-8	2-5/16	2.3180	1-13/16		7/16	45	UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-2312-9	2-5/16	2.3180	2.000		1/4	45	GDI, GM	
20-2312-11	2-5/16	2.3180	1-13/16		3/8	45	UNIVERSAL	
20-2312-14	2-5/16	2.3180	1-7/8		1/4	45	UNIVERSAL	
20-2312-16	2-5/16	2.3180	1-15/16		1/4	45	UNIVERSAL	
20-2312-17	2-5/16	2.3180	1-15/16		5/16	45	UNIVERSAL	
20-2375-1	2-3/8	2.3805	2.000		3/16	45	UNIVERSAL	
20-2375-2	2-3/8	2.3805	2.000		9/32	45	UNIVERSAL	
20-2375-2N	2-3/8	2.3805	2.000		9/32	45	UNIVERSAL	
20-2375-15	2-3/8	2.3805	1-7/8		7/16	45	UNIVERSAL	
20-2437-1	2-7/16	2.4430	2.000		9/32	45	UNIVERSAL	
20-2562-1	2-9/16	2.5685	2-3/16		1/4	30	MIN	
20-2937-1	2-15/16	2.9435	2-3/8		9/16	45	UNIVERSAL	
21-1062-50	1-1/16	1.0695	0.790		0.254	45	GM, HON, MAZ, NIS, TOY	
21-1062-51	1-1/16	1.0695	0.870		0.195	45	HON	
21-1125-51	1-1/8	1.1320	0.854		0.237	45	GM, TOY	
21-1125-52	1-1/8	1.1320	0.825T	0.925	0.285	45	CHC, MIT	
21-1125-53	1-1/8	1.1320	0.890T	0.976	0.237	45	GM, HYU	
21-1125-54	1-1/8	1.1320	0.900		0.325	45	HON, VOK	
21-1125-55	1-1/8	1.1320	0.830		0.240	45	MAZ	
21-1187-51	1-3/16	1.1945	0.905		0.257	45	CHC, MIT, TOY	
21-1187-52	1-3/16	1.1945	0.934T	0.995	0.257	45	FDI, FOR, GM, HON, ISU, SUZ, TOY	
21-1187-53	1-3/16	1.1945	0.935		0.235	45	TOY	
21-1187-54	1-3/16	1.1945	0.880		0.280	45	CHC, MIT, HON	
21-1250-50	1-1/4	1.2570	0.965T	1.060	1/4	45	GM, NIS, TOI, TOY	
21-1250-52	1-1/4	1.2570	0.910T	1.052	0.285	45	FOR, HON	
21-1250-53	1-1/4	1.2570	1.024		0.257	45	CHC, TOY	
21-1250-54	1-1/4	1.2570	1.010T	1.056	0.257	45	GM, NIS, TOY	
21-1250-55	1-1/4	1.2570	1.005T	1.100	0.255	45	CHC, MIT, TOY	
21-1250-56	1-1/4	1.2570	0.905T	1.005	0.230	45	FOR, GM, MAZ, NIS	
21-1250-57	1-1/4	1.2570	0.982T	1.102	0.212	45	NIS	
21-1250-58	1-1/4	1.2570	0.955		0.255	45	TOY	
21-1250-59	1-1/4	1.2570	0.982		0.329	45	CHC, MIT, SUB	
21-1250-60	1-1/4	1.2570	1.023T	1.110	0.273	45	CHC, MIT	
21-1250-61	1-1/4	1.2570	0.976		0.180	45	FOR, MAZ	
21-1250-62	1-1/4	1.2570	1.000		0.305	45	HON	
21-1250-63	1-1/4	1.2570	0.930		0.325	45	HON	
21-1250-64	1-1/4	1.2570	0.970		0.270	45	HON	
21-1250-65	1-1/4	1.2570	1.030		0.215	45	MAZ	
21-1312-50	1-5/16	1.3195	1.086T	1.153	0.305	45	CHC, VOK	
21-1312-52	1-5/16	1.3195	1.060T	1.087	0.240	45	GM, ISU, NII, NIS	
21-1312-53	1-5/16	1.3195	0.980T	1.106	0.293	45	CHC, HYU, MIT	
21-1312-54	1-5/16	1.3195	1.070T	1.133	0.330	45	FIA, YUG	
21-1312-56	1-5/16	1.3195	1.086		0.305	45	CHC, GM, HON, VOK	
21-1312-57	1-5/16	1.3195	1.060		0.280	45	NIS, TOY	
21-1312-59	1-5/16	1.3195	1.044		0.273	45	GM, TOY	
21-1312-60	1-5/16	1.3195	1.070T	1.175	0.257	45	TOY	
21-1312-61	1-5/16	1.3195	1.060T	1.102	0.275	45	GM, ISU	
21-1312-62	1-5/16	1.3195	1.065T	1.120	0.285	45	CHC, MIT, NIS, VOL	
21-1312-63	1-5/16	1.3195	0.965T	1.075	0.235	45	NIS	
21-1312-65	1-5/16	1.3195	1.060T	1.117	0.230	45	GM, ISU	
21-1312-66	1-5/16	1.3195	1.020T	1.127	0.258	45	HON, ISU	
21-1312-67	1-5/16	1.3195	1.042		0.238	45	GM, TOY	
21-1312-67N	1-5/16	1.3195	1.042		0.238	45	"N" SERIES	
21-1312-68	1-5/16	1.3195	0.975		0.280	45	HON, SAA	
21-1375-60	1-3/8	1.3820	1.107T	1.217	0.237	45	GM	
21-1375-50	1-3/8	1.3820	1.109T	1.218	0.255	45	GM, TOY	
21-1375-51	1-3/8	1.3820	1.060T	1.150	0.280	45	CHC, FOR, GM, ISU, MDI, MIT, NIS	
21-1375-52	1-3/8	1.3820	1.000T	1.109	0.410	45	HON	
21-1375-54	1-3/8	1.3820	1.022T	1.085	0.230	45	MAI, MAZ, NIS, TOY	
21-1375-55	1-3/8	1.3820	1.120		0.325	45	BMW, HON, NIS, VOK	
21-1375-56	1-3/8	1.3820	1.102		0.260	45	FOR, GM, MAZ, SUZ, TOY	
21-1375-59	1-3/8	1.3820	1.050T	1.190	0.275	45	JAG	
21-1375-61	1-3/8	1.3820	1.130T	1.272	0.304	45	FOR	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
21-1375-62	1-3/8	1.3820	1.100T	1.210	0.300	45	CHC, MIT	
21-1375-63	1-3/8	1.3820	1.057T	1.110	0.240	45	HYU	
21-1375-64	1-3/8	1.3820	1.000		0.280	45	GM, SUZ	
21-1375-65	1-3/8	1.3820	1.165		0.310	45	HON	
21-1437-50	1-7/16	1.4445	1.140T	1.241	0.305	45	CHC, VOK	
21-1437-51	1-7/16	1.4420	1.130T	1.311	0.250	45	VOL	
21-1437-52	1-7/16	1.4445	1.150T	1.271	0.410	45	HON	
21-1437-53	1-7/16	1.4445	1.090T	1.101	0.354	45	CHC, HON, NIS	
21-1437-54	1-7/16	1.4420	1.230T	1.299	0.250	45	TOY	
21-1437-56	1-7/16	1.4445	1.110T	1.215	0.315	45	GM, TOY	
21-1437-57	1-7/16	1.4445	1.100T	1.260	0.293	45	CHC, HYU, MIT	
21-1437-58	1-7/16	1.4445	1.095T	1.262	0.237	45	GM, IDI, ISU	
21-1437-59	1-7/16	1.4445	1.180T	1.245	0.305	45	CHC, MIT, VOK	
21-1437-60	1-7/16	1.4445	1.125		0.257	45	NIS	
21-1437-61	1-7/16	1.4445	1.162		0.310	45	CHC, MIT, NIS, VOK	
21-1437-62	1-7/16	1.4445	1.200		0.297	45	GM	
21-1437-63	1-7/16	1.4445	1.181	1.285	0.280	45	CHC, HYU, MIT	
21-1437-64	1-7/16	1.4445	1.100T	1.255	0.227	45	GM, ISU, TOY	
21-1437-65	1-7/16	1.4445	1.105		0.322	45	FOR, SUB	
21-1437-66	1-7/16	1.4445	1.120		0.300	45	CHC, FOR, MAZ, TOY	
21-1437-67	1-7/16	1.4445	1.180T	1.270	0.255	45	HON, ISU, TOY	
21-1437-68	1-7/16	1.4445	1.135T	1.250	0.316	45	CHC, HYU, MIT	
21-1437-69	1-7/16	1.4445	1.140T	1.228	0.237	45	GM	
21-1437-71	1-7/16	1.4445	1.162T	1.210	0.214	45	NIS	
21-1437-72	1-7/16	1.4445	1.150T	1.243	0.257	45	TOY	
21-1437-73	1-7/16	1.4445	1.142T	1.265	0.336	45	CHC, MIT	
21-1437-74	1-7/16	1.4445	1.162		0.230	45	FOR, MAZ	
21-1437-75	1-7/16	1.4445	1.175		0.260	45	FOR, MAZ	
21-1500-80	1-1/2	1.5070	1.250		0.230	45	MAZ	
21-1500-50	1-1/2	1.5070	1.203T	1.266	0.280	45	GM, ISU	
21-1500-50N	1-1/2	1.507	1.203T	1.266	0.280	45	FOR	
21-1500-52	1-1/2	1.5070	1.260T	1.408	0.240	45	NIS	
21-1500-53	1-1/2	1.5070	1.180T	1.241	0.307	45	BMW, FOR, NIS	
21-1500-54	1-1/2	1.5070	1.180T	1.325	0.307	45	KIA, MAI, MAZ, NIS	
21-1500-56	1-1/2	1.5070	1.275T	1.318	0.250	45	FIA, TOI, TOY	
21-1500-57	1-1/2	1.5070	1.100T	1.213	0.316	45	FTU, MAZ	030
21-1500-58	1-1/2	1.5070	1.200T	1.220	0.315	45	FIA, GM, SUB, TOI, TOY	
21-1500-59	1-1/2	1.5070	1.210T	1.340	0.325	45	TOY	
21-1500-61	1-1/2	1.5070	1.220T	1.330	0.315	45	TOY	
21-1500-62	1-1/2	1.5070	1.220T	1.284	0.310	45	BMW, CHC, GM, MDI, MIT, VOK	
21-1500-63	1-1/2	1.5070	1.210T	1.248	0.345	45	BMW, CHC	
21-1500-64	1-1/2	1.5070	1.140T	1.362	0.325	45	HON	
21-1500-65	1-1/2	1.5070	1.140T	1.270	0.325	45	FIA, HON, YUG	
21-1500-68	1-1/2	1.5070	1.179T	1.287	0.293	45	NIS	
21-1500-69	1-1/2	1.5070	1.255		0.318	45	FTU, HON, NIS	
21-1500-70	1-1/2	1.5070	1.203		0.283	45	NII, NIS, SAA	
21-1500-71	1-1/2	1.5070	1.240		0.317	45	GM, JAG, TOY	
21-1500-73	1-1/2	1.5070	1.230		0.278	45	GM, VOL	
21-1500-74	1-1/2	1.5070	1.180T	1.280	0.214	45	GM, NIS	
21-1500-75	1-1/2	1.5070	1.180		0.300	45	CHC, HON, MIT	
21-1500-76	1-1/2	1.5070	1.215T	1.340	0.275	45	JAG	
21-1500-77	1-1/2	1.5070	1.175T	1.235	0.236	45	GM, NIS	
21-1500-79	1-1/2	1.5070	1.295		0.262	45	FOR, GM, SUZ	
21-1562-50	1-9/16	1.5695	1.260T	1.412	0.280	45	CHC, MDI, MIT	
21-1562-51	1-9/16	1.5695	1.245T	1.268	0.354	45	HON	
21-1562-52	1-9/16	1.5670	1.190T	1.321	0.315	45	TOY	
21-1562-54	1-9/16	1.5695	1.220T	1.356	0.344	45	FOR	010,020,030
21-1562-57	1-9/16	1.5695	1.246T	1.303	0.230	45	MAZ	
21-1562-65	1-9/16	1.5695	1.300T	1.433	0.315	45	VOK	
21-1562-66	1-9/16	1.5695	1.265T	1.294	0.280	45	GM, ISU, NIS, TOY	
21-1562-67	1-9/16	1.5695	1.255T	1.307	0.319	45	GM, TOY	
21-1562-68	1-9/16	1.5695	1.300T	1.370	0.256	45	NIS	
21-1562-69	1-9/16	1.5695	1.219		0.317	45	CHC, HYU, MIT	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
21-1562-69N	1-9/16	1.5695	1.219		0.317	45	CHC, HYU, MDI, MIT	
21-1562-70	1-9/16	1.5695	1.180T	1.300	0.305	45	GM, ISU	
21-1562-71	1-9/16	1.5695	1.275T	1.365	0.258	45	VOL	
21-1562-72	1-9/16	1.5695	1.180		0.316	45	TOY	
21-1562-74	1-9/16	1.5695	1.290T	1.325	0.324	45	CHC	
21-1562-75	1-9/16	1.5695	1.200T	1.253	0.293	45	JAG	
21-1562-76	1-9/16	1.5695	1.300		0.257	45	TOY	
21-1562-77	1-9/16	1.5695	1.170		0.267	45	GM, SUZ	
21-1562-78	1-9/16	1.5695	1.230		0.278	45	VOL	
21-1625-50	1-5/8	1.6320	1.340T	1.426	0.307	45	VOK	
21-1625-52	1-5/8	1.6320	1.260T	1.427	0.315	45	TOY	
21-1625-53	1-5/8	1.6320	1.255T	1.437	0.300	45	NIS	
21-1625-54	1-5/8	1.6320	1.329		0.280	45	FOR, FTU, HON, ISU	
21-1625-55	1-5/8	1.6320	1.333T	1.495	0.237	45	GM, IDI, ISU	
21-1625-56	1-5/8	1.6320	1.298T	1.382	0.317	45	BMW, CHC, HYU, MAZ, MDI, MIT	
21-1625-58	1-5/8	1.6300	1.280T	1.361	0.315	45	TOI, TOY	
21-1625-59	1-5/8	1.6320	1.380		0.257	45	NII, NIS	
21-1625-60	1-5/8	1.6320	1-1/4T	1.408	0.293	45	NII, NIS	
21-1625-61	1-5/8	1.6320	1.305T	1.450	0.227	45	GM, ISU	
21-1625-62	1-5/8	1.6320	1.320		0.300	45	FOR, MAZ	
21-1625-64	1-5/8	1.6320	1.335T	1.387	0.420	45	GM, MBZ	
21-1625-64N	1-5/8	1.6300	1.335T	1.387	0.4200	45	GM	
21-1687-50	1-11/16	1.6945	1.345T	1.522	0.325	45	TOY	
21-1687-51	1-11/16	1.6945	1.390T	1.452	0.305	45	CHC	
21-1687-52	1-11/16	1.6945	1.300T	1.420	0.360	45	CHC	
21-1687-53	1-11/16	1.6945	1.338T	1.436	0.309	45	NIS	
21-1687-54	1-11/16	1.6945	1.450		0.297	45	GM	
21-1687-55	1-11/16	1.6945	1.340		0.315	45	CHC, TOI, TOY	
21-1687-56	1-11/16	1.6945	1.375T	1.475	0.295	45	NIS	
21-1687-57	1-11/16	1.6945	1.335T	1.487	0.275	45	BMW, FOR, MAZ	
21-1687-58	1-11/16	1.6945	1.397T	1.469	0.257	45	GM	
21-1750-50	1-3/4	1.7570	1.500T	1.614	0.255	45	GM, TOY	
21-1750-51	1-3/4	1.7570	1.410T	1.600	0.280	45	GM, ISU	
21-1750-52	1-3/4	1.7570	1.455T	1.595	0.307	45	GM, NIS	
21-1750-53	1-3/4	1.7570	1.390T	1.535	0.250	45	FIA	
21-1750-54	1-3/4	1.7570	1.460T	1.582	0.316	45	FTU, HYU, MAZ	
21-1750-56	1-3/4	1.7550	1.510T	1.575	0.250	45	TOY, VOL	
21-1750-57	1-3/4	1.7550	1.430T	1.615	0.215	45	TOY	
21-1750-58	1-3/4	1.7550	1.360T	1.540	0.315	45	TOY	
21-1750-59	1-3/4	1.7570	1.360T	1.503	0.315	45	MIT, TOY	
21-1750-60	1-3/4	1.7570	1.437T	1.555	0.302	45	BMW, FOR	010,020,030
21-1750-61	1-3/4	1.7570	1.445T	1.617	0.310	45	CHC, MDI, MIT	
21-1750-62	1-3/4	1.7570	1.323T	1.527	0.276	45	GM, ISU	
21-1750-63	1-3/4	1.7570	1.410T	1.540	0.315	45	GM, JAG, TOY	
21-1750-64	1-3/4	1.7570	1.454		0.277	45	NIS	
21-1750-65	1-3/4	1.7570	1.468		0.276	45	GM, SAA	
21-1750-66	1-3/4	1.7570	1.460T	1.530	0.275	45	CHC, FOR, MDI, MIT	
21-1750-67	1-3/4	1.7570	1.380T	1.538	0.382	45	JAG	
21-1750-68	1-3/4	1.7570	1.415		0.316	45	GM, TOY	
21-1750-69	1-3/4	1.7570	1.415T	1.535	0.300	45	CHC, FTU	
21-1812-50	1-13/16	1.8195	1.490T	1.588	0.307	45	KIA, MAI, MAZ, NIS	
21-1812-51	1-13/16	1.8195	1.530T	1.670	0.307	45	HON, ISU, NIS	
21-1812-52	1-13/16	1.8195	1.440T	1.490	0.315	45	GM, SUB	
21-1812-53	1-13/16	1.8195	1.420T	1.620	0.315	45	TOY	
21-1812-54	1-13/16	1.8195	1.405T	1.592	0.315	45	GM, NIS	
21-1812-55	1-13/16	1.8195	1-1/2T	1.555	0.278	45	GM, NIS	
21-1812-56	1-13/16	1.8195	1.535		0.293	45	FOR, NII, NIS	
21-1812-59	1-13/16	1.8195	1.540T	1.635	0.250	45	VOL	
21-1812-60	1-13/16	1.8195	1.590T	1.622	0.450	45	MBZ	
21-1875-50	1-7/8	1.8820	1.640		0.280	45	FOR, FTU	
21-1875-51	1-7/8	1.8820	1.575T	1.692	0.317	45	CHC, HYU, MAZ, MDI, MIT	
21-1875-53	1-7/8	1.8820	1.505T	1.689	0.380	45	JAG	
21-1875-54	1-7/8	1.8820	1.575T	1.672	0.290	45	CHC	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
21-1875-55	1-7/8	1.8820	1.625T	1.715	0.352	45	MBZ	
21-1875-56	1-7/8	1.8820	1.600T	1.673	0.252	45	FOR	
21-1875-57	1-7/8	1.8820	1.505T	1.630	0.280	45	VOL	
21-1937-51	1-15/16	1.9420	1.540T	1.718	0.315	45	TOI, TOY	
21-1937-52	1-15/16	1.9445	1.573T	1.620	0.379	45	TOY	
21-1937-53	1-15/16	1.9445	1.674T	1.734	0.276	45	GM	
21-1937-55	1-15/16	1.9445	1.640T	1.730	0.290	45	CHC	
21-2000-50	2.000	2.0070	1.625T	1.800	0.368	45	JAG	
21-2000-51	2.000	2.0070	1.690T	1.765	0.270	45	CHC, MIT	
21-2062-50N	2-1/16	2.0695	1.750		0.4200	45	GM	
21-2062-51	2-1/16	2.0695	1.750T	1.810	0.3900	45	GM	
21-2062-51N	2-1/16	2.0695	1.750T	1.810	0.3900	45	GM	
21-2062-52	2-1/16	2.0695	1-3/4		0.280	45	CHC	
21-2187-50	2-3/16	2.1945	1.820T	2.024	0.3410	45	CHC	
22-1088-1	1.088	1.0888	0.890T	0.955	0.221	45	CHC, MBT, MBZ	
22-1102-1	28mm	1.1024	0.787		0.315	45	METRIC UNIVERSAL	
22-1102-1N	28mm	1.1024	0.787		0.315	45	METRIC "N" SERIES	
22-1142-2	29mm	1.1417	0.827		0.335	45	METRIC UNIVERSAL	
22-1142-2N	29mm	1.1417	0.827		0.335	45	METRIC "N" SERIES	
22-1160-1	1.160	1.1600	0.960T	1.032	0.221	45	CHC, MBT, MBZ	
22-1181-1	30mm	1.1811	0.866		0.335	45	METRIC UNIVERSAL	
22-1181-1N	30mm	1.1811	22mm		8.5mm	45	METRIC "N" SERIES	
22-1221-2	31mm	1.2205	0.906		0.335	45	METRIC UNIVERSAL	
22-1221-2N	31mm	1.2205	0.906		0.335	45	METRIC "N" SERIES	
22-1260-1	32mm	1.2598	0.945		0.335	45	METRIC UNIVERSAL	020,030
22-1260-1N	32mm	1.2598	0.945		0.335	45	METRIC "N" SERIES	020,030
22-1264-1	1.264	1.2645	0.977T	1.098	0.237	45	GDI, GM	005
22-1299-1	33mm	1.2992	0.984		0.335	45	METRIC UNIVERSAL	
22-1299-1N	33mm	1.2992	0.984		0.335	45	METRIC "N" SERIES	
22-1339-2	34mm	1.3386	1.024		0.335	45	METRIC UNIVERSAL	
22-1339-2N	34mm	1.3386	1.024		0.335	45	METRIC "N" SERIES	
22-1343-1	1.343	1.3430	1.069T	1.180	0.237	45	GDI, GM	005
22-1345-1	1.345	1.345	1.165		0.246	45	FOR	
22-1375-1	1.3750	1.3750	1.100	1.140	0.227	30	CHC, CUM, FDI, FOR, GM, IHN	010
22-1375-2N	1.375	1.3750	1.100	1.125	0.227	45	CHC, CUM, FDI, FOR, IHN	005,010
22-1378-1	35mm	1.3780	1.024		0.354	45	METRIC UNIVERSAL	
22-1378-1N	35mm	1.3780	1.024		0.354	45	METRIC "N" SERIES	
22-1382-2	1.382	1.3820	1.100		0.300	45	MBT	
22-1417-1	36mm	1.4173	1.063		0.354	45	METRIC UNIVERSAL	
22-1417-1N	36mm	1.4173	1.063		0.354	45	METRIC "N" SERIES	
22-1457-2	37mm	1.4567	1.102		0.354	45	METRIC UNIVERSAL	
22-1457-2N	37mm	1.4567	1.102		0.354	45	METRIC "N" SERIES	
22-1469-1	1.469	1.4690	1.061		0.373	45	UNIVERSAL	
22-1496-1	38mm	1.4961	1.142		0.354	45	METRIC UNIVERSAL	
22-1496-1N	38mm	1.4961	1.142		0.354	45	METRIC "N" SERIES	
22-1501-1	1.500	1.500	1.279		0.275	45	FOR	
22-1516-1	1.516	1.5160	1-1/4		1/4	45	CHI, CHC	
22-1535-1	39mm	1.5354	1.181		0.354	45	METRIC UNIVERSAL	
22-1535-1N	39mm	1.5354	1.181		0.354	45	METRIC "N" SERIES	
22-1575-3	40mm	1.5748	1.181		0.374	45	METRIC UNIVERSAL	
22-1575-3N	40mm	1.5748	1.181		0.374	45	METRIC "N" SERIES	
22-1578-1	1.578	1.5780	1.233T	1.323	0.315	45	MBT	
22-1614-1	41mm	1.6142	1.221		0.374	45	METRIC UNIVERSAL	
22-1614-1N	41mm	1.6142	1.221		0.374	45	METRIC "N" SERIES	
22-1624-1N	1.624	1.6245	1-21/64		3/8	45	CHI, CHM, CHC	
22-1630-1	1.630	1.6300	1.335		0.312	45	FDI, FOR, FTA	010,015,020,030,040
22-1630-1N	1.630	1.6300	1.335		0.312	45	"N" SERIES	010,020,030
22-1640-1	1.640	1.6400	1-3/8		1/4	45	CHM, CHC, FOR, FTU	010,020
22-1654-3	42mm	1.6535	1.260		0.374	45	METRIC UNIVERSAL	
22-1654-3N	42mm	1.6535	1.260		0.374	45	METRIC "N" SERIES	
22-1669-1	1.669	1.6690	1.372T	1.429	0.272	37	FDI, FOR, IHN	015,030,040,050
22-1671-1N	1.671	1.6710	1.367		0.311	45	FOR	
22-1693-4	43mm	1.6929	1.299		0.374	45	METRIC UNIVERSAL	

# VALVE SEAT INSERT NUMERICAL LISTING

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
22-1693-4N	43mm	1.6929	1.299		0.374	45	METRIC "N" SERIES	
22-1697-1	1.697	1.6975	1.450T	1.542	0.276	45	GDI, GM, IDI, ISU	
22-1722-1	1.722	1.7220	1.357T	1.574	0.265	45	CAS, CHC, CUM, GM	
22-1732-1	44mm	1.7323	1.339		0.374	45	METRIC UNIVERSAL	
22-1732-1N	44mm	1.7323	1.339		0.374	45	METRIC "N" SERIES	
22-1733-2N	1.733	1.7330	1.455T	1.597	0.365	45	FDI, FOR	030
22-1744-1N	1.744	1.7440	1.445		0.312	45	FDI, FOR	
22-1772-2	45mm	1.7717	1.358		0.394	45	METRIC UNIVERSAL	
22-1772-2N	45mm	1.7717	1.358		0.394	45	METRIC "N" SERIES	
22-1781-1N	1.781	1.7810	1.476		0.311	45	FDI, FOR	
22-1784-1N	1.7845	1.7845	1.417T	1.563	0.292	45	GDI, GM	
22-1784-2N	1.784	1.7845	1.417		0.292	45	GDI, GM	
22-1811-1	46mm	1.8110	1.398		0.394	45	METRIC UNIVERSAL	
22-1811-1N	46mm	1.8110	1.398		0.394	45	METRIC "N" SERIES	
22-1815-1	1.815	1.8150	1.595		1/4	45	FDI, FOR	
22-1828-1	1.828	1.8280	1-7/16		3/8	45	UNIVERSAL	
22-1850-2	47mm	1.8504	1.437		0.394	45	METRIC UNIVERSAL	
22-1850-2N	47mm	1.8504	1.437		0.394	45	METRIC "N" SERIES	
22-1853-1	1.853	1.8530	1.498T	1.700	0.273	30	CAS, CHC, CUM, GM	
22-1890-2	48mm	1.8898	1.476		0.394	45	METRIC UNIVERSAL	
22-1890-2N	48mm	1.8898	1.476		0.394	45	METRIC "N" SERIES	
22-1894-1	1.894	1.8945	1.570T	1.660	0.292	30	GDI, GM, IDI, ISU	
22-1929-1	49mm	1.9291	1.516		0.394	45	METRIC UNIVERSAL	
22-1929-1N	49mm	1.9291	1.516		0.394	45	METRIC "N" SERIES	
22-1952-1	1.952	1.9520	1.660		0.345	45	GM	
22-1962-1N	1.962	1.9620	1.595T	1.730	0.365	30	FDI, FOR	030
22-1969-2	50mm	1.9685	1.535		0.413	45	METRIC UNIVERSAL	
22-1969-2N	50mm	1.9685	1.535		0.413	45	METRIC "N" SERIES	
22-2008-2	51mm	2.0079	1.575		0.413	45	METRIC UNIVERSAL	
22-2008-2N	51mm	2.0079	1.575		0.413	45	METRIC "N" SERIES	
22-2013-1	2.013	2.0130	1.770T	1.801	0.288	45	GDI, GM, IDI, ISU	
22-2047-1	52mm	2.0472	1.614		0.413	45	METRIC UNIVERSAL	
22-2047-1N	52mm	2.0472	1.614		0.413	45	METRIC "N" SERIES	
22-2087-2	53mm	2.0866	1.654		0.413	45	METRIC UNIVERSAL	
22-2087-2N	53mm	2.0866	1.654		0.413	45	METRIC "N" SERIES	
22-2126-1	54mm	2.1260	1.693		0.413	45	METRIC UNIVERSAL	
22-2126-1N	54mm	2.1260	1.693		0.413	45	METRIC "N" SERIES	
22-2165-1	55mm	2.1654	1.732		0.433	45	METRIC UNIVERSAL	
22-2165-1N	55mm	2.1654	1.732		0.433	45	METRIC "N" SERIES	
22-2205-2	56mm	2.2047	1.772		0.433	45	METRIC UNIVERSAL	
22-2205-2N	56mm	2.2047	1.772		0.433	45	METRIC "N" SERIES	
22-2220-1	2.220	2.2200	1.843		0.312	45	FDI, FOR	020
22-2244-1	57mm	2.2441	1.811		0.433	45	METRIC UNIVERSAL	
22-2244-1N	57mm	2.2441	1.811		0.433	45	METRIC "N" SERIES	
22-2284-2	58mm	2.2835	1.850		0.433	45	METRIC UNIVERSAL	
22-2284-2N	58mm	2.2835	1.850		0.433	45	METRIC "N" SERIES	
22-2323-2	59mm	2.3228	1.890		0.433	45	METRIC UNIVERSAL	
22-2323-2N	59mm	2.3228	1.890		0.433	45	METRIC "N" SERIES	
22-2362-1	60mm	2.3622	1.890		0.453	45	METRIC UNIVERSAL	
22-2362-1N	60mm	2.3622	1.890		0.453	45	METRIC "N" SERIES	
22-2402-1	61mm	2.4016	1.929		0.453	45	METRIC UNIVERSAL	
22-2402-1N	61mm	2.4016	1.929		0.453	45	METRIC "N" SERIES	
22-2441-1	62mm	2.4410	1.969		0.453	45	METRIC UNIVERSAL	
22-2441-1N	62mm	2.4409	1.969		0.453	45	METRIC "N" SERIES	
22-2480-1	63mm	2.4803	2.008		0.453	45	METRIC UNIVERSAL	
22-2480-1N	63mm	2.4803	2.008		0.453	45	METRIC "N" SERIES	
22-2520-1	64mm	2.5197	2.047		0.453	45	METRIC UNIVERSAL	
22-2520-1N	64mm	2.5197	2.047		0.453	45	METRIC "N" SERIES	
22-2559-1	65mm	2.5591	2.087		0.453	45	METRIC UNIVERSAL	
22-2559-1N	65mm	2.5591	2.087		0.453	45	METRIC "N" SERIES	
22-2677-1	68mm	2.6772	2.165		0.472	45	METRIC UNIVERSAL	
22-2677-1N	68mm	2.6772	2.165		0.472	45	METRIC "N" SERIES	
22-2756-1	70mm	2.7559	2.244		0.472	45	METRIC UNIVERSAL	

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## VALVE SEAT INSERT NUMERICAL LISTING

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QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
22-2756-1N	70mm	2.7559	2.244		0.472	45	METRIC "N" SERIES	

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# METRIC UNIVERSAL VALVE SEAT NUMERICAL LISTING

## Universal Valve Seat Inserts For Use With Metric Cutters

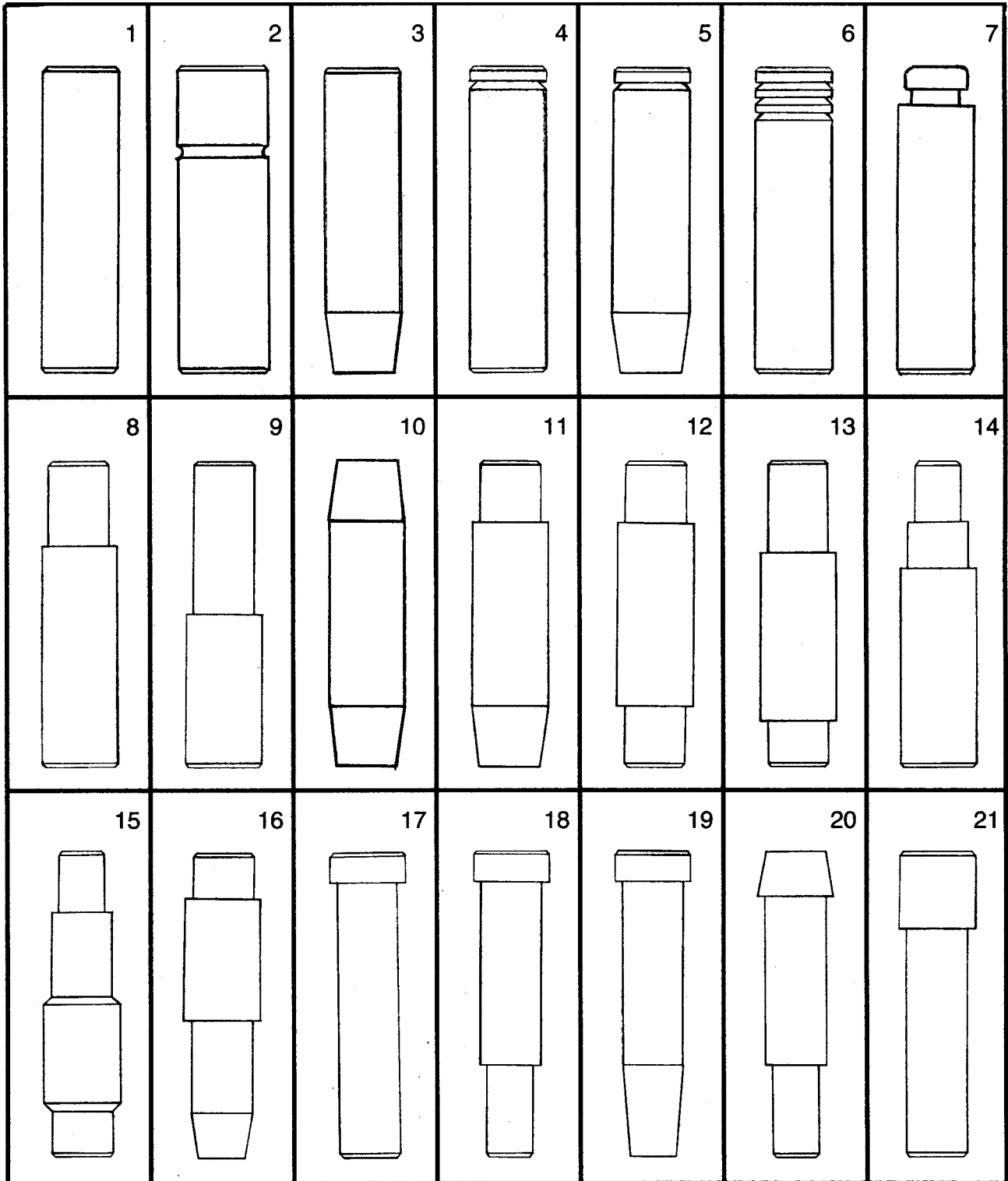
For All Items Listed On This Page, Add an N Suffix for Nickel, Non-Magnetic Material.

QC #	Cutter Size	Exact O.D.	I.D.		Depth		Seat Angle
			MM	Inches	MM	Inches	
22-1102-1	28mm	1.1024	20	0.787	8	0.315	45
22-1142-2	29mm	1.1417	21	0.827	8.5	0.335	45
22-1181-1	30mm	1.1811	22	0.866	8.5	0.335	45
22-1221-2	31mm	1.2205	23	0.906	8.5	0.335	45
22-1260-1	32mm	1.2598	24	0.945	8.5	0.335	45
22-1299-1	33mm	1.2992	25	0.984	8.5	0.335	45
22-1339-2	34mm	1.3386	26	1.024	8.5	0.335	45
22-1378-1	35mm	1.3780	26	1.024	9	0.354	45
22-1417-1	36mm	1.4173	27	1.063	9	0.354	45
22-1457-2	37mm	1.4567	28	1.102	9	0.354	45
22-1496-1	38mm	1.4961	29	1.142	9	0.354	45
22-1535-1	39mm	1.5354	30	1.181	9	0.354	45
22-1575-3	40mm	1.5748	30	1.181	9.5	0.374	45
22-1614-1	41mm	1.6142	31	1.221	9.5	0.374	45
22-1654-3	42mm	1.6535	32	1.260	9.5	0.374	45
22-1693-4	43mm	1.6929	33	1.299	9.5	0.374	45
22-1732-1	44mm	1.7323	34	1.339	9.5	0.374	45
22-1772-2	45mm	1.7717	34.5	1.358	10	0.394	45
22-1811-1	46mm	1.8110	35.5	1.398	10	0.394	45
22-1850-2	47mm	1.8504	36.5	1.437	10	0.394	45
22-1890-2	48mm	1.8898	37.5	1.476	10	0.394	45
22-1929-1	49mm	1.9291	38.5	1.516	10	0.394	45
22-1969-2	50mm	1.9685	39	1.535	10.5	0.413	45
22-2008-2	51mm	2.0079	40	1.575	10.5	0.413	45
22-2047-1	52mm	2.0472	41	1.614	10.5	0.413	45
22-2087-2	53mm	2.0866	42	1.654	10.5	0.413	45
22-2126-1	54mm	2.1260	43	1.693	10.5	0.413	45
22-2165-1	55mm	2.1654	44	1.732	11	0.433	45
22-2205-2	56mm	2.2047	45	1.772	11	0.433	45
22-2244-1	57mm	2.2441	46	1.811	11	0.433	45
22-2284-2	58mm	2.2835	47	1.850	11	0.433	45
22-2323-2	59mm	2.3228	48	1.890	11	0.433	45
22-2362-1	60mm	2.3622	48	1.890	11.5	0.453	45
22-2402-1	61mm	2.4016	49	1.929	11.5	0.453	45
22-2441-1	62mm	2.4410	50	1.969	11.5	0.453	45
22-2480-1	63mm	2.4803	51	2.008	11.5	0.453	45
22-2520-1	64mm	2.5197	52	2.047	11.5	0.453	45
22-2559-1	65mm	2.5591	53	2.087	11.5	0.453	45
22-2677-1	68mm	2.6772	55	2.165	12	0.472	45
22-2756-1	70mm	2.7559	57	2.244	12	0.472	45



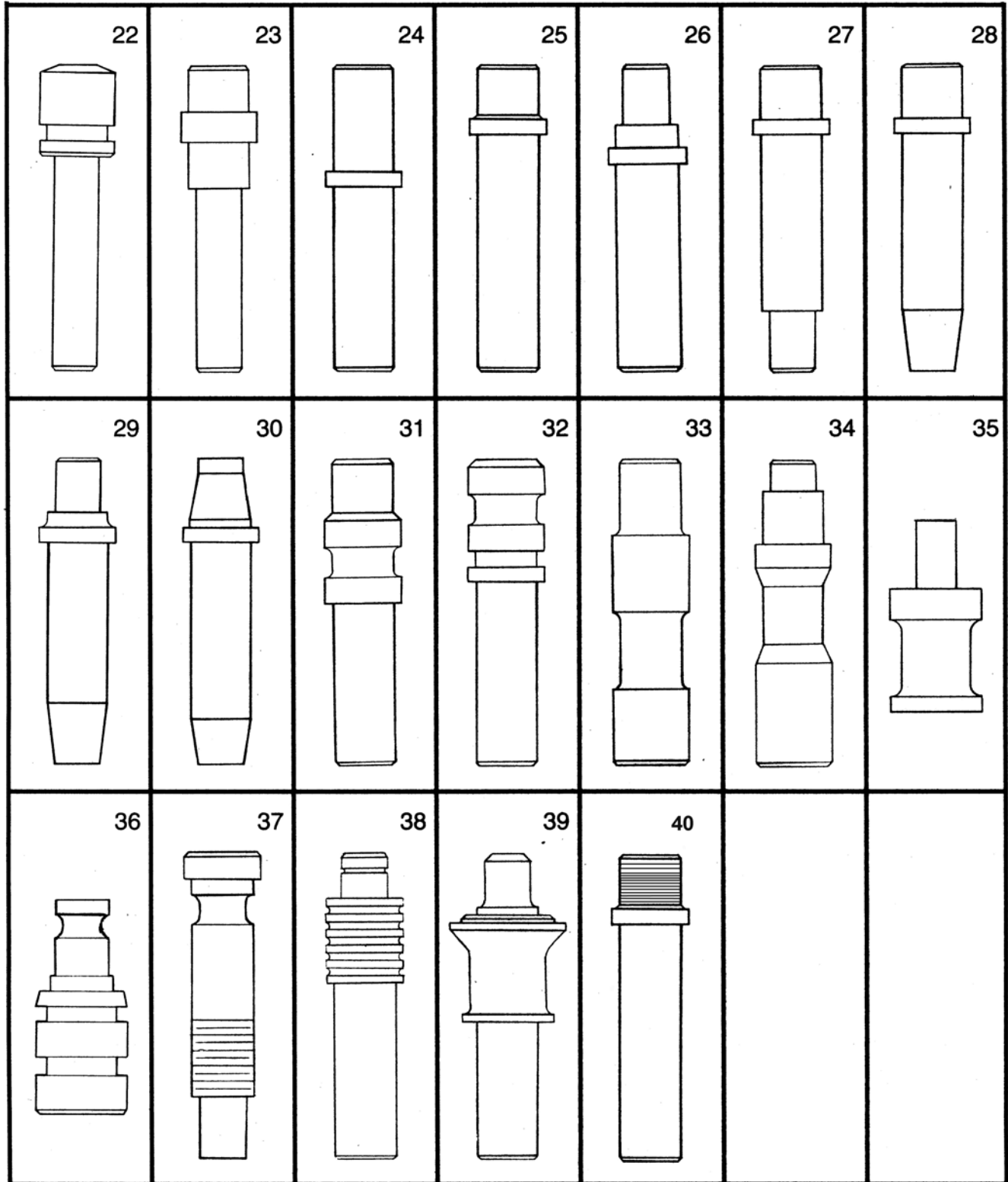
# VALVE GUIDE TYPE SHAPES FOR NUMERICAL LISTING

Valve Guide Type Shapes Are NOT Drawn To Scale. These Drawings Should Be Used As A General Guide In Determining The Shape Of The Valve Guide.



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# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
Material: <b>CAST IRON</b>						30-3053	0.3154	0.5000	2.115	1-SR	GM
30-1337	0.3445	0.6575	2.813	11-P	CHI, CHM, CHC	30-3053H	0.3154	0.5000	2.115	1-SR	GM LS1
30-1338	0.3425	0.6575	2.813	11-P	CHI, CHM, CHC	30-3054	0.3547	0.5526	2.365	1-P	GDI, GM, IDI, ISU
30-1342	0.3750	0.6580	3.063	11-P	CHC	30-3055	0.2765	0.4395	2.331	21-P	FDI, FOR, IHN
30-1384	0.3745	0.6265	3.063	8-P	GM	30-3066	0.2768	0.4390	2.200	1-SR	FOR
30-1411	0.3440	0.6890	3.078	3-P	GM	30-3067	0.3155	0.5525	2.085	1-SR	GM
30-1453	0.3435	0.5655	3.219	8-P	GM	30-3070	0.2170	0.4345	1.535	1-P	FOR
30-1476	0.3432	0.5655	2.188	1-P	GM	30-3080	0.2775	0.4395	1.937	1-SR	CHC, CUM
30-1504	0.3750	0.6580	2.750	13-P	CHC	30-3081	0.2775	0.4395	2.020	1-SR	CHC, CUM
30-1515	0.3427	0.6575	2.563	11-P	CAS, CHC, CON, MAC	30-3082	0.183	0.3950	1.562	8P	GM
30-1527	0.3435	0.5650	2.438	1-P	GM	30-3083	0.215	0.3960	1.900	4-P	HYU
30-1609	0.4370	0.6570	2.188	3-P	CHC	30-3101	0.3150	0.5526	2.245	11-P	GM,ISU
30-1613	0.3435	0.6575	2.922	3-P	FOR	30-3112	0.2355	0.4358	1.655	1-SR	GM
30-1614	0.3435	1.0305	2.210	36-P	FOR, FTA	30-3118	0.2360	0.4360	1.556	5-SR	SUB
30-1684	0.3445	0.5638	2.313	8-SR	GM	30-3119	0.2360	0.4360	1.872	5-SR	SUB
30-1689	0.3445	0.5645	2.625	3-P	GM	30-3128	0.2165	0.4170	1.580	5-P	SUZ
30-1690	0.3435	0.5645	3.000	3-P	GM	30-3134	0.2175	0.4073	1.630	5-P	TOY
30-1701	0.4365	0.7520	2.875	8-P	CAS, CON	30-3135	0.2175	0.4072	1.850	5-P	TOY
30-1704	0.3750	0.6580	2.375	8-P	CHC	30-3136	0.2173	0.4370	1.630	6-SR	HON
30-1732	0.3435	0.5650	3.344	8-P	GM	30-3137	0.2173	0.4370	1.790	6-SR	HON
30-1733	0.3745	0.6265	2.750	10-P	GM	30-3142	0.2755	0.4547	1.967	1-P	GDI, GM
30-1740	0.3745	0.6895	2.813	1-P	CHC, CHI	30-3149	0.2752	0.4720	1.820	1-P	CHC
30-1745	0.3445	0.5638	2.266	8-SR	GM	30-3152	0.2168	0.4348	1.655	1-P	HYU, KIA
30-1758	0.3435	0.5650	2.188	1-P	GM	30-3154	0.2168	0.4358	1.740	1-P	HYU
30-1803	0.3745	0.6895	2.938	13-P	CHC, CHI	30-3156	0.3145	0.5250	2.185	8-SR	CHC
30-1819	0.3437	0.6010	2.250	3-P	CHC	30-3162	0.2372	0.4352	1.535	2-P	MAZ
30-1839	0.4385	0.6890	3.090	1-P	CHI, CHC	30-3163	0.2764	0.4725	2.150	1-P	FDI, FOR
30-1840	0.3745	0.6890	3.280	12-P	CHI, CHC	30-3166	0.2373	0.4395	1.715	1-P	FOR
30-1878	0.3973	0.6580	2.375	1-SR	GM	30-3170	0.2177	0.4355	1.395	1-P	FOR
30-1900	0.3425	0.6270	2.180	11-P	CHC	30-3207	0.2765	0.5020	2.000	1-SR	Conversion
30-1918+2	0.3435	0.5200	2.220	8-P	GM	30-3216	0.2760	0.4350	2.081	5-P	GM
30-1919	0.3740	0.6008	2.250	4-P	CHC	30-3217	0.2150	0.4350	1.602	1-P	NIS
30-1928	0.3435	0.5955	2.531	10-P	GM	30-3218	0.2126	0.3970	1.457		SUB
30-1937	0.3750	0.6270	2.563	11-P	GM	30-3219	0.2126	0.3980	1.748		SUB
30-1972	0.3740	0.6205	2.630	12-P	GM	30-3220	0.1970	0.3820	1.358		TOY
30-1973	0.3735	0.6255	2.420	8-P	GM	30-3221	0.2165	0.4130	1.693		TOY
30-3009	0.2763	0.5110	2.289	1-P	GM	30-3243					MIT
30-3009+2	0.2763	0.5130	2.289	1-P	GM	30-3244	0.195	0.375	1.752	5-P	NIS
30-3010	0.2355	0.3950	1.773	8-P	GM	30-3245	0.1935	0.375	1.753	5-P	NIS
30-3011	0.2355	0.3950	1.378	8-P	GM	30-3248	0.2175	0.4075	1.715	5-P	TOY
30-3012	0.3175	0.5339	2.540	8-P	FOR	30-3251	0.238				VOK
30-3015	0.3420	0.5020	2.120	21-P	GM	30-3252	0.236	0.4360	1.415		VOK
30-3016	0.3420	0.5020	2.210	21-P	GM	30-3253					VOK
30-3019	0.2360	0.4355	1.618	1-P	CHC	30-3255	0.2750	0.4940	1.476	8-P	CHC, MBT, MBZ
30-3020	0.2366	0.4493	1.510	1-SR	GM	30-3257	0.3145	0.502	2.440	21-SR	FOR, IHN
30-3021	0.2776	0.5015	1.937	21-SR	CHC, CUM	30-3276	0.316	0.552	2.365	8-P	MBT, MBZ
30-3022	0.2776	0.5015	2.018	21-SR	CHC, CUM	30-3279	0.198	0.395	1.463	8-P	GM
30-3023	0.2751	0.4934	2.275	4-SR	CHC	30-3284	0.236	0.435	1.582	1-P	FOR
30-3024	0.3735	0.6203	2.620	9-SR	GDI, GM	30-3285	0.295	0.5525	2.363	8-P	MER
30-3025	0.3735	0.6265	2.250	9-SR	GDI, GM	30-3288	0.197	0.416	1.360		BMW
30-3026	0.2752	0.4720	1.702	1-P	CHC	30-3289	0.2165	0.375	1.753	5-P	NIS
30-3026+2	0.2752	0.4740	1.702	1-P	CHC	30-3290	0.1972	0.363	1.661	5-P	NIS
30-3028	0.2175	0.3774	1.455	1-SR	FOR	30-3291					CHC,FIA
30-3029	0.2365	0.3950	1.420	1-P	GM	30-3292					VOK
30-3031	0.3145	0.5250	2.185	1-SR	CHC	30-3293	0.2165	0.396	1.889		HYU
30-3032	0.3155	0.5250	2.185	1-SR	CHC	30-3295					FOR
30-3033	0.2776	0.5015	1.937	21-SR	CHC, CUM	30-5604	0.3440	0.5020	2.625	1-P	Conversion
30-3034	0.2776	0.5015	2.020	21-SR	CHC, CUM	30-5604+2	0.3440	0.5040	2.625	1-P	Conversion
30-3046	0.2365	0.4355	1.575	1-P	DAE, GM	30-5606	0.3440	0.5020	2.375	1-P	FOR, GM
30-3047	0.2370	0.4360	1.724	1-SR	FOR	30-5607	0.3440	0.5020	2.250	1-P	Conversion
30-3048	0.2768	0.4747	2.500	21-SR	FOR, MAZ	30-5608	0.3750	0.5020	2.125	1-P	Conversion
30-3049	0.2755	0.4547	1.967	4-P	GDI, GM	30-5609	0.4375	0.6270	2.625	1-P	Conversion
						30-5609+2	0.4375	0.6290	2.625	1-P	Conversion

P = Plain (Smooth) I.D.

SR = Spiral Reamed I.D.

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QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
30-5610	0.3750	0.5020	2.625	1-P	Conversion	30-7499	0.3155	0.4745	2.313	5-SR	NIS
30-5611	0.2510	0.4390	2.313	1-P	Conversion	30-7499+6	0.3155	0.4805	2.313	5-SR	NIS
30-5612	0.3440	0.5020	2.875	1-P	Conversion	30-7507	0.3420	0.5640	2.250	1-SR	Conversion
30-6097	0.3155	0.4751	2.625	18-SR	VOK	30-7523	0.3160	0.5145	2.260	5-SR	TOY
30-6105	0.3440	0.5020	2.500	1-P	Conversion	30-7523+2	0.3160	0.5165	2.260	5-SR	TOY
30-6105U	0.3390	0.5020	2.500	1-P	Conversion	30-7527	0.3160	0.5640	2.360	8-SR	TOI, TOY
30-6106	0.3430	0.5020	2.750	1-P	Conversion	30-7528	0.3160	0.5640	2.765	8-SR	TOI, TOY
30-6107	0.3740	0.5020	2.250	1-P	Conversion	30-7529	0.3160	0.5525	2.322	8-SR	TOI, TOY
30-6108	0.3740	0.5020	2.375	1-P	Conversion	30-7532	0.3155	0.5525	2.130	5-SR	TOI, TOY
30-6109	0.3740	0.5020	2.500	1-P	Conversion	30-7534	0.3160	0.5145	2.135	5-SR	TOY
30-6110	0.3740	0.5020	2.625	1-P	Conversion	30-7535	0.3160	0.5145	1.813	3-SR	TOY
30-6111	0.3740	0.5020	2.875	1-P	Conversion	30-7537	0.3160	0.5535	2.247	15-SR	TOY
30-6112	0.3745	0.5020	2.250	1-P	Conversion	30-7538	0.3555	0.5535	2.415	1-SR	TOI, TOY
30-6113	0.3745	0.5020	2.375	1-P	Conversion	30-7540	0.3160	0.5145	1.970	3-SR	TOY
30-6114	0.3750	0.5020	2.500	1-P	Conversion	30-7541	0.3155	0.5145	1.980	10-SR	TOY
30-6115	0.3750	0.5020	2.750	1-P	Conversion	30-7542	0.3155	0.4745	1.930	2-SR	NII, NIS
30-6116	0.4375	0.6270	3.125	1-P	Conversion	30-7545	0.3160	0.4745	1.930	2-SR	NII, NIS
30-6119	0.4375	0.6270	2.500	1-P	Conversion	30-7546	0.3115	0.4390	3.063	1-P	Conversion
30-6119+2	0.4375	0.6290	2.500	1-P	Conversion	30-7552	0.3440	0.5640	2.875	1-SR	Conversion, DDA
30-6120	0.4375	0.6270	2.750	1-P	Conversion	30-7554	0.3730	0.5020	2.750	1-P	Conversion
30-6523	0.3440	0.5020	3.063	1-P	Conversion	30-7560	0.3440	0.5020	2.000	1-P	Conversion
30-6587	0.3135	0.4390	2.500	1-SR	Conversion	30-7562	0.3450	0.5640	2.375	1-SR	Conversion
30-6850	0.3720	0.5020	2.625	1-P	Conversion	30-7574	0.3160	0.5145	1.848	5-SR	CHC, MAZ, MII, MIT
30-6867	0.3440	0.5020	2.125	1-P	Conversion	30-7574+2	0.3160	0.5165	1.848	5-SR	CHC, MAZ, MII, MIT
30-6869	0.3125	0.4390	1.875	1-P	Conversion	30-7574+6	0.3160	0.5205	1.848	5-SR	CHC, MIT
30-6872	0.3120	0.4390	2.281	1-P	Conversion	30-7575	0.3160	0.5145	2.046	5-SR	CHC, MAZ, MII, MIT
30-6873	0.3450	0.5020	2.125	1-P	Conversion	30-7575+2	0.3160	0.5165	2.046	5-SR	CHC, MAZ, MII, MIT
30-6896H	0.3120	0.4390	2.875	1-SR	CHC	30-7575+6	0.3160	0.5205	2.046	5-SR	CHC, MIT
30-6897H	0.3120	0.4390	2.188	1-SR	CHC	30-7576	0.3160	0.5145	1.735	5-SR	CHC, HYU, MII, MIT
30-6905	0.3750	0.6270	3.969	1-SR	Conversion	30-7576+2	0.3160	0.5165	1.735	5-SR	CHC, HYU, MII, MIT
30-6906	0.4380	0.6275	3.250	1-SR	Conversion	30-7577	0.3160	0.5145	1.890	5-SR	CHC, HYU, MII, MIT
30-6977	0.3120	0.5020	2.281	1-P	Conversion	30-7577+2	0.3160	0.5165	1.890	5-SR	CHC, HYU, MII, MIT
30-7197	0.4375	0.6270	3.000	1-P	Conversion	30-7577+6	0.3160	0.5205	1.890	5-SR	CHC, HYU, MIT
30-7198	0.3175	0.5020	2.000	8-P	FOR, MAZ	30-7578	0.2600	0.4755	1.730	5-P	CHC, HYU, MIT
30-7205	0.3120	0.5020	2.000	8-P	FOR, FOI	30-7581	0.3150	0.4745	2.165	5-SR	GM
30-7206	0.3440	0.5020	2.188	21-P	FOR	30-7583	0.3155	0.5020	1.750	1-P	Conversion
30-7208	0.3740	0.6205	2.740	12-P	GM	30-7588	0.3440	0.5640	2.625	1-SR	Conversion
30-7247	0.3740	0.5640	2.875	1-SR	Conversion	30-7589	0.2600	0.4755	1.950	5-P	CHC, HYU, MIT
30-7248	0.3750	0.5640	2.750	1-SR	Conversion, JDR	30-7589+2	0.2600	0.4775	1.950	5-P	CHC, HYU, MIT
30-7259	0.3430	0.5020	3.063	1-P	Conversion	30-7656	0.3145	0.5530	1.970	2-P	GM, IDI, ISU
30-7260	0.3730	0.5020	2.875	1-P	Conversion	30-7659	0.2610	0.4755	2.165	4-SR	HON
30-7271	0.3440	0.5640	2.375	1-SR	Conversion	30-7659+2	0.2630	0.4775	2.165	4-SR	HON
30-7272	0.3440	0.5640	2.250	1-SR	Conversion	30-7661	0.3145	0.5020	1.575	4-P	CHC
30-7272+3	0.3440	0.5670	2.250	1-SR	Conversion	30-7662	0.3145	0.5020	1.693	4-P	CHC
30-7276	0.3740	0.5640	2.375	1-SR	Conversion	30-7662+2	0.3145	0.5040	1.693	4-SR	CHC
30-7277	0.3740	0.5640	2.500	1-SR	Conversion	30-7663	0.3125	0.5020	1.875	1-P	Conversion
30-7278	0.3430	0.5640	3.063	1-SR	Conversion	30-7669	0.3735	0.5020	3.969	1-SR	Conversion
30-7279	0.3730	0.5640	2.875	1-SR	Conversion	30-7679	0.3120	0.5020	2.380	1-P	Conversion
30-7291	0.3730	0.5640	2.375	1-SR	Conversion	30-7680	0.4365	0.6270	3.270	1-P	Conversion
30-7298	0.3730	0.5020	2.375	1-P	Conversion	30-7681	0.3735	0.5020	2.598	1-P	Conversion, CAT
30-7395	0.3145	0.4750	1.990	2-SR	GM	30-7682	0.3735	0.5020	3.000	1-P	Conversion, CAT
30-7429N	0.3145	0.4937	1.575	4-P	CHC	30-7689	0.3745	0.6252	2.600	1-P	FDI, FOR, IHN
30-7429N+2	0.3145	0.4957	1.575	4-P	CHC	30-7705	0.3155	0.5020	2.000	1-P	Conversion
30-7447	0.3740	0.5640	2.625	1-SR	Conversion, CAT	30-7710	0.2765	0.4755	2.168	6-P	HON
30-7448	0.3750	0.5640	3.000	1-SR	Conversion, CAT	30-7710+2	0.2765	0.4775	2.168	6-P	HON
30-7451N	0.3145	0.4937	1.693	4-P	CHC	30-7711	0.2765	0.4755	1.965	5-P	HON
30-7451N+2	0.3145	0.4957	1.693	4-P	CHC	30-7712	0.3740	0.6270	2.600	1-P	Conversion
30-7458	0.3740	0.5020	3.063	1-P	Conversion	30-7713	0.3145	0.4745	1.810	2-P	ISU, GM
30-7459	0.3430	0.5020	2.375	1-P	Conversion	30-7713+2	0.3145	0.4765	1.810	2-P	ISU, GM
30-7460	0.3430	0.5020	2.500	1-P	Conversion	30-7714	0.3145	0.4740	2.160	2-P	ISU, GM
30-7462	0.3185	0.5535	1.990	6-P	MAZ	30-7714+2	0.3145	0.4760	2.160	2-P	ISU, GM
30-7471	0.3150	0.5145	2.531	19-SR	VOK	30-7715	0.3430	0.5020	2.125	1-P	Conversion
30-7473	0.3530	0.5145	2.400	19-SR	VOK	30-7822	0.3175	0.5350	2.525	7-P	FOR

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# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
30-7822+2	0.3175	0.5370	2.525	7-P	FOR	30-8181	0.2760	0.4480	1.474	4-SR	CHC
30-7823	0.3175	0.5655	2.525	7-P	FOR	30-8186	0.2371	0.4355	1.920	4-SR	MAZ
30-7825	0.2760	0.4745	2.167	4-SR	NIS	30-8187	0.2371	0.4355	1.920	5-SR	MAZ
30-7826	0.2760	0.4350	1.770	3-SR	NII, NIS	30-8189	0.2340	0.4350	1.650	4-SR	ISU, GM
30-7828	0.3155	0.4745	2.660	5-SR	NII, NIS	30-8190	0.2365	0.3950	1.580	5-SR	NIS
30-7830	0.2605	0.4755	1.970	5-SR	HON	30-8191	0.2365	0.3950	1.695	4-SR	NIS
30-7847	0.3135	0.5020	2.250	17-SR	CHC	30-8192	0.2760	0.4745	2.280	5-SR	NIS
30-7850	0.3155	0.5145	2.800	5-SR	CHC, FOR, HYU, MII, MIT	30-8193	0.2600	0.4755	1.795	5-SR	CHC, MIT
30-7851	0.3155	0.5145	2.920	5-SR	CHC, FOR, HYU, MII, MIT	30-8193+2	0.2600	0.4775	1.795	5-SR	CHC, HYU, MIT
30-7852	0.3145	0.4765	1.670	30-SR	CHC, VOK	30-8194	0.2600	0.4755	1.990	5-SR	CHC, MIT
30-7873	0.2760	0.4423	2.315	11-SR	NIS, FOR	30-8194+2	0.2600	0.4775	1.990	5-SR	CHC, MIT
30-7907	0.3420	0.5020	2.375	1-P	Conversion	30-8195	0.2371	0.4355	1.600	4-SR	TOY
30-7908	0.3425	0.5020	2.250	1-P	Conversion	30-8195+2	0.2371	0.4375	1.600	4-SR	TOY
30-7909	0.3420	0.5020	2.875	1-P	Conversion	30-8196	0.3355	0.5530	2.400	5-SR	TOY
30-7946	0.3430	0.5020	2.250	1-P	Conversion	30-8198	0.2371	0.4355	1.775	5-SR	TOY
30-7946+2	0.3430	0.5040	2.250	1-P	Conversion	30-8201	0.3160	0.5145	1.970	4-SR	TOI, TOY
30-7999	0.3740	0.6205	2.200	15-SR	GM	30-8202	0.3160	0.5145	2.045	4-SR	TOI, TOY
30-8013	0.3150	0.5020	2.250	1-P	Conversion	30-8203	0.2367	0.4365	2.065	5-SR	SUB
30-8014	0.2762	0.4550	1.695	5-SR	ISU, GM	30-8203+2	0.2367	0.4385	2.065	5-SR	SUB
30-8015	0.2762	0.4550	1.970	5-SR	ISU, GM	30-8204	0.2760	0.4350	1.550	4-SR	NIS
30-8016	0.2757	0.4760	1.895	5-SR	SUZ, GM	30-8205	0.2755	0.4745	1.990	3-SR	MAZ, FOR
30-8017	0.3160	0.4820	2.500	7-SR	NIS, FOR	30-8207	0.3160	0.5140	1.820	4-SR	TOY
30-8020	0.2757	0.4550	1.690	5-SR	TOY, GM	30-8207+2	0.3160	0.5160	1.820	4-SR	TOY
30-8021	0.2757	0.4550	1.930	5-SR	TOY, GM	30-8208	0.2370	0.4350	1.455	5-SR	TOY
30-8036	0.2765	0.4745	1.970	4-SR	FOR	30-8209	0.3155	0.4680	2.045	1-SR	NII, NIS
30-8037	0.3730	0.4813	2.615	21-SR	FOR	30-8211	0.2760	0.4350	2.070	5-SR	NIS
30-8038	0.2371	0.4350	1.595	5-SR	TOY, GM	30-8212	0.3155	0.4745	2.205	4-SR	NIS
30-8039	0.2771	0.4342	1.790	5-SR	GM	30-8213	0.2170	0.3760	1.575	4-SR	NIS
30-8039+2	0.2771	0.4362	1.790	5-SR	GM	30-8214	0.2367	0.3955	1.970	5-SR	NIS
30-8040	0.3150	0.5020	2.250	1-SR	Conversion	30-8215	0.2600	0.4192	2.085	4-SR	NIS
30-8112	0.3155	0.5530	2.085	11-SR	GM	30-8216	0.2365	0.3955	1.690	5-SR	NIS
30-8112+2	0.3155	0.5550	2.085	11-SR	GM	30-8217	0.2365	0.3955	1.690	4-SR	NIS
30-8113	0.3740	0.6205	2.435	18-SR	GDI, GM	30-8218	0.2170	0.3760	1.575	5-SR	KIA, NIS
30-8114	0.3155	0.5830	2.770	8-SR	GM	30-8219	0.3155	0.4935	2.275	4-SR	CHC
30-8115	0.3155	0.5830	2.320	8-SR	GM	30-8219+2	0.3145	0.4955	2.275	4-SR	CHC
30-8124	0.2767	0.5140	1.740	2-SR	GM	30-8225	0.3160	0.5645	1.848	7-SR	CHC, MIT
30-8124+2	0.2767	0.5160	1.740	2-SR	GM	30-8226	0.3160	0.5645	2.046	7-SR	CHC, MIT
30-8139	0.2765	0.4765	1.483	29-SR	VOK	30-8233	0.2750	0.4350	1.890	4-SR	NIS
30-8140	0.2765	0.4755	2.360	3-SR	MAZ	30-8255	0.2370	0.4355	1.810	5-SR	ISU, GM
30-8141	0.3180	0.5530	2.360	3-SR	MAZ	30-8256	0.3740	0.6163	2.755	19-SR	GDI, GM
30-8142	0.2765	0.4760	2.088	3-SR	MAZ, FOR	30-8273	0.2365	0.4355	1.890	4-SR	TOY
30-8143	0.3153	0.5145	2.260	5-SR	SUB	30-8274	0.2765	0.4953	1.930	1-SR	FOR
30-8144	0.2170	0.4365	1.690	5-SR	SUZ	30-8274+2	0.2765	0.4973	1.930	1-SR	FOR
30-8145	0.2760	0.4745	2.166	5-SR	SUB	30-8291	0.2350	0.4355	1.850	5-SR	GM
30-8146	0.2760	0.4745	2.325	5-SR	MAZ, SUB	30-8292	0.2755	0.4495	2.125	1-SR	GM
30-8147	0.2370	0.4360	1.520	5-SR	GM, HYU, TOY	30-8293	0.2755	0.4495	1.510	1-SR	GM
30-8153	0.2605	0.4755	1.850	5-SR	HON	30-8324	0.2170	0.4365	1.260	5-SR	GM
30-8154	0.2605	0.4755	2.086	6-SR	HON	30-8324+2	0.2170	0.4385	1.260	5-SR	GM
30-8155	0.2605	0.4765	1.975	4-SR	HON	30-8351	0.3735	0.6200	2.227	16-P	GM
30-8156	0.2605	0.4765	1.770	5-SR	HON	30-8356	0.3735	0.5020	3.000	1-SR	Conversion, CAT
30-8157	0.2173	0.4360	2.130	4-SR	HON	30-8357	0.3735	0.5020	2.598	1-SR	Conversion, CAT
30-8158	0.2173	0.4360	1.875	4-SR	HON	30-8388	0.2760	0.4345	2.315	5-SR	FOR, NIS
30-8171	0.3180	0.5920	2.520	8-SR	MAZ	30-8388+2	0.2760	0.4365	2.315	5-SR	FOR, NIS
30-8172	0.3173	0.5533	2.177	1-SR	MAZ	30-8389	0.3160	0.4740	2.500	4-SR	FOR, NIS
30-8172+2	0.3173	0.5553	2.177	1-SR	MAZ	30-8397	0.2173	0.4765	1.640	6-SR	HON
30-8173	0.2370	0.4360	1.775	4-SR	FOR, MAZ	30-8407	0.3730	0.6205	2.220	33-SR	GDI, GM
30-8174	0.2370	0.4360	1.808	4-SR	MAZ	30-8409	0.3730	0.6270	2.680	1-SR	FDI, FOR
30-8177	0.3162	0.5525	2.382	1-SR	CAS, CHC, CUM, GM	30-8418	0.3125	0.4937	1.575	4-P	CHC
30-8178	0.3162	0.5525	2.037	1-SR	CAS, CHC, CUM, GM	30-8419	0.3125	0.4934	1.693	4-SR	CHC
30-8180	0.3430	0.5577	2.275	1-SR	GM	30-8446	0.3435	0.5020	2.125	4-SR	GM
30-8180+2	0.3430	0.5597	2.275	1-SR	GM	30-8447	0.3435	0.5020	2.260	4-SR	GM
						30-8494	0.3135	0.5020	2.436	21-SR	CHC
						30-8535	0.2757	0.5830	2.320	8-SR	GM

P = Plain (Smooth) I.D.

SR = Spiral Reamed I.D.

-H Suffix Denotes Hardened Guide

# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
30-8536	0.2757	0.5830	2.770	8-SR	GM	30-9108U	0.3690	0.5020	2.375	1-SR	Conversion
30-8541	0.2370	0.4355	2.205	5-SR	MAZ	30-9109	0.3740	0.5020	2.500	1-SR	FOR, FDI
30-8542	0.2370	0.4355	1.910	5-SR	MAZ	30-9110	0.3740	0.5020	2.625	1-SR	Conversion
30-8543	0.2365	0.3955	1.815	5-SR	NIS	30-9111	0.3740	0.5020	2.875	1-SR	Conversion
30-8544	0.2365	0.3955	1.940	4-SR	NIS	30-9112	0.3745	0.5020	2.250	1-SR	Conversion
30-8545	0.3440	0.4990	2.250	1-SR	FOR	30-9113	0.3745	0.5020	2.375	1-SR	Conversion
30-8547	0.2760	0.4950	2.200	3-SR	CHC	30-9114	0.3750	0.5020	2.500	1-SR	Conversion
30-8548	0.2750	0.4545	2.040	3-SR	CHC	30-9115	0.3750	0.5020	2.750	1-SR	Conversion
30-8551	0.3155	0.5315	2.045	1-SR	VOL	30-9116	0.4375	0.6270	3.125	1-SR	Conversion
30-8552	0.2745	0.4725	1.770	8-SR	VOL	30-9119	0.4375	0.6270	2.500	1-SR	Conversion
30-8553	0.3145	0.5315	2.045	12-SR	VOL	30-9191	0.3440	0.5020	1.656	21-SR	GM
30-8554	0.2355	0.4360	1.790	4-SR	CHC, MIT	30-9197	0.4375	0.6270	3.000	1-SR	Conversion
30-8554+2	0.2355	0.4380	1.790	4-SR	CHC, MIT	30-9198	0.3175	0.5020	2.000	8-SR	FOR, MAZ
30-8555	0.2355	0.4360	1.835	1-SR	CHC	30-9204	0.3150	0.4390	2.200	1-SR	Conversion
30-8555+2	0.2355	0.4380	1.835	1-SR	CHC	30-9205	0.3120	0.5020	2.000	8-SR	FOR
30-8556	0.2355	0.4360	1.735	1-SR	CHC, MIT	30-9206	0.3440	0.5020	2.188	21-SR	FOR
30-8557	0.2755	0.4550	2.300	8-SR	CHC	30-9206U	0.3390	0.5020	2.188	21-SR	FOR
30-8558	0.2765	0.4765	1.435	29-SR	VOK	30-9208	0.3740	0.6205	2.740	12-SR	GM
30-8559	0.2365	0.4360	1.575	4-SR	FOR	30-9259	0.3430	0.5020	3.063	1-SR	Conversion
30-8560	0.2370	0.4955	1.880	1-SR	FOR	30-9260	0.3730	0.5020	2.875	1-SR	Conversion
30-8561	0.2370	0.4360	1.490	5-SR	FOR, MAZ	30-9298	0.3730	0.5020	2.375	1-SR	Conversion
30-8562	0.3145	0.5640	2.440	1-SR	Conversion	30-9458	0.3740	0.5020	3.063	1-SR	Conversion
30-8564	0.2365	0.4365	1.280	4-SR	SUB	30-9458H	0.374	0.502	3.063	1-SR	Conversion
30-8565	0.2365	0.4365	1.595	4-SR	SUB	30-9459	0.3430	0.5020	2.375	1-SR	Conversion
30-8566	0.2360	0.4365	1.380	4-SR	GM, SUZ	30-9459+2	0.3430	0.5040	2.375	1-SR	Conversion
30-8567	0.2360	0.4360	1.750	4-SR	HYU	30-9460	0.3430	0.5020	2.500	1-SR	Conversion
30-8569	0.2360	0.4360	1.990	4-SR	CHC	30-9460+2	0.3430	0.5040	2.500	1-SR	Conversion
30-8570	0.2360	0.4360	1.440	5-SR	HYU	30-9460H	0.343	0.502	2.500	1-SR	Conversion
30-8571	0.2360	0.4360	1.990	4-SR	CHC, MIT	30-9462	0.3185	0.5535	1.990	6-SR	FOR, MAZ
30-8572	0.2360	0.4360	1.690	5-SR	HYU	30-9523	0.3440	0.5020	3.063	1-SR	Conversion
30-8573	0.2360	0.4360	1.540	5-SR	HYU	30-9523H	0.344	0.502	3.063	1-SR	Conversion
30-8574	0.2765	0.4955	2.200	1-SR	FOR	30-9546	0.3115	0.4390	3.063	1-SR	Conversion
30-8575	0.2765	0.4955	2.050	1-SR	FOR	30-9554	0.3730	0.5020	2.750	1-SR	Conversion
30-8576	0.2175	0.4765	1.645	11-SR	HON	30-9557	0.3180	0.5535	2.000	2-SR	MAZ, FOR
30-8577	0.2175	0.4765	1.870	11-SR	HON	30-9560	0.3440	0.5020	2.000	1-SR	Conversion
30-8578	0.2605	0.4755	1.775	5-SR	HON	30-9561	0.3450	0.5020	2.375	1-SR	Conversion
30-8579	0.2605	0.4755	1.970	4-SR	HON	30-9604	0.3440	0.5020	2.625	1-SR	Conversion
30-8580	0.2605	0.4755	1.535	4-SR	HON	30-9606	0.3440	0.5020	2.375	1-SR	Conversion
30-8581	0.2605	0.4765	1.695	4-SR	HON	30-9606U	0.3390	0.5020	2.375	1-SR	Conversion
30-8582	0.2170	0.4765	1.715	5-SR	HON	30-9607	0.3440	0.5020	2.250	1-SR	Conversion
30-8583	0.2170	0.4765	2.045	4-SR	HON	30-9607H	0.344	0.502	2.250	1-SR	Conversion
30-8584	0.2175	0.4075	1.360	5-SR	TOY	30-9607U	0.3395	0.5020	2.250	1-SR	Conversion
30-8585	0.2175	0.4075	1.590	5-SR	TOY	30-9609	0.4378	0.6270	2.625	1-SR	FDI, FOR
30-8586	0.2765	0.4550	1.660	4-SR	TOY	30-9610	0.3750	0.5020	2.625	1-SR	Conversion
30-8587	0.2170	0.4355	1.750	5-SR	MAZ	30-9611	0.2510	0.4390	2.313	1-SR	Conversion
30-8588	0.2807	0.5830	2.320	8-SR	GM, ISU	30-9612	0.3440	0.5020	2.875	1-SR	Conversion
30-8589	0.2807	0.5830	2.770	8-SR	GM, ISU	30-9690	0.3150	0.5020	2.375	1-SR	Conversion
30-8593	0.2755	0.5120	1.640	1-SR	GM	30-9705	0.3155	0.5020	2.000	1-SR	Conversion
30-8658	0.3135	0.5015	2.860	21-SR	CHC	30-9705+5	0.3155	0.5070	2.000	1-SR	Conversion
30-8659	0.3135	0.5015	3.081	21-SR	CHC	30-9708	0.3445	0.5020	2.500	1-SR	Conversion
30-8662	0.2388	0.4736	1.421	2-SR	FOR	30-9715	0.3430	0.5020	2.125	1-SR	Conversion
30-8663	0.2760	0.4725	1.740	2-SR	FOR	30-9716	0.3730	0.5020	2.188	1-SR	Conversion
30-8666	0.2355	0.4333	1.700	2-SR	GM	30-9846	0.3440	0.5020	2.313	21-SR	FOR
30-8668	0.2360	0.4333	1.500	2-SR	GM	30-9848	0.3135	0.5020	2.438	1-SR	Conversion
30-8670	0.2354	0.4350	1.654	2-SR	GM	30-9850	0.3720	0.5020	2.625	1-SR	Conversion
30-8671	0.2353	0.4350	1.654	5-SR	GM	30-9867	0.3440	0.5020	2.125	1-SR	Conversion
30-8675	0.2765	0.4955	1.930	8-SR	FOR	30-9867+2	0.3440	0.5040	2.125	1-SR	Conversion
30-9105	0.3440	0.5020	2.500	1-SR	Conversion	30-9869	0.3125	0.4390	1.875	1-SR	Conversion
30-9106	0.3430	0.5020	2.750	1-SR	Conversion	30-9872	0.3120	0.4390	2.281	1-SR	Conversion, CAT
30-9106+2	0.3430	0.5040	2.750	1-SR	Conversion	30-9872U	0.3070	0.4390	2.281	1-SR	Conversion
30-9107	0.3740	0.5020	2.250	1-SR	GDI, GM	30-9873	0.3450	0.5020	2.125	1-SR	Conversion
30-9108	0.3740	0.5020	2.375	1-SR	Conversion	30-9907	0.3420	0.5020	2.375	1-SR	Conversion
30-9108H	0.374	0.502	2.375	1-SR	Conversion	30-9908	0.3425	0.5020	2.250	1-SR	Conversion

P = Plain (Smooth) I.D.    SR = Spiral Reamed I.D.

-H Suffix Denotes Hardened Guide

# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application
30-9909	0.3420	0.5020	2.875	1-SR	Conversion
30-9946	0.3430	0.5020	2.250	1-SR	Conversion
30-9946+2	0.3430	0.5040	2.250	1-SR	Conversion
30-9964	0.3730	0.5020	2.625	1-SR	Conversion
30-9964H	0.3730	0.502	2.625	1-SR	Conversion
30-9972	0.3740	0.6205	2.630	12-SR	GDI, GM
30-9972+3	0.3740	0.6235	2.630	12-SR	GDI, GM
30-9972H	0.374	0.621	2.630	12-SR	Conversion
30-9973	0.3735	0.6255	2.420	8-SR	GDI, GM
30-9973+10	0.3735	0.6355	2.420	8-SR	GDI, GM
30-9977	0.3120	0.5020	2.281	1-SR	Conversion
30-9977H	0.312	0.502	2.281	1-SR	Conversion
30-9977U	0.3070	0.5020	2.281	1-SR	Conversion

Material: **MANGANESE BRONZE**

31-03419	0.2360	0.4360	1.415	1-P	VOK
31-2074	0.235	0.435	1.475	7-P	VOK
31-2075	0.236	0.435	1.450	7-P	VOK
31-3010	0.2355	0.3955	1.770	1-P	GM
31-3011	0.2355	0.3955	1.380	1-P	GM
31-7359	0.3150	0.4765	1.450	29-P	VOK
31-7473	0.3536	0.5140	2.400	19-P	VOK
31-8139	0.275	0.476	1.500	29-SR	VOK
31-8202	0.3149	0.4755	2.400	19-P	VOK
31-8206	0.3149	0.5140	2.400	19-P	VOK
31-8274	0.2765	0.4953	1.930	1-P	FOR
31-8560	0.2360	0.4950	1.890	1-P	FOR

# VALVE GUIDE PROGRESSIVE SIZE LISTING BY I.D.

I.D.	O.D	Length	Type	QC #
0.183	0.3950	1.562	8P	30-3082
0.1935	0.375	1.753	5-P	30-3245
0.195	0.375	1.752	5-P	30-3244
0.197	0.416	1.360		30-3288
0.1970	0.3820	1.358		30-3220
0.1972	0.363	1.661	5-P	30-3290
0.198	0.395	1.463	8-P	30-3279
0.2126	0.3970	1.457		30-3218
0.2126	0.3980	1.748		30-3219
0.215	0.3960	1.900	4-P	30-3083
0.2150	0.4350	1.602	1-P	30-3217
0.2165	0.375	1.753	5-P	30-3289
0.2165	0.396	1.889		30-3293
0.2165	0.4130	1.693		30-3221
0.2165	0.4170	1.580	5-P	30-3128
0.2168	0.4348	1.655	1-P	30-3152
0.2168	0.4358	1.740	1-P	30-3154
0.2170	0.3760	1.575	4-SR	30-8213
0.2170	0.3760	1.575	5-SR	30-8218
0.2170	0.4345	1.535	1-P	30-3070
0.2170	0.4355	1.750	5-SR	30-8587
0.2170	0.4365	1.260	5-SR	30-8324
0.2170	0.4365	1.690	5-SR	30-8144
0.2170	0.4385	1.260	5-SR	30-8324+2
0.2170	0.4765	1.715	5-SR	30-8582
0.2170	0.4765	2.045	4-SR	30-8583
0.2173	0.4360	1.875	4-SR	30-8158
0.2173	0.4360	2.130	4-SR	30-8157
0.2173	0.4370	1.630	6-SR	30-3136
0.2173	0.4370	1.790	6-SR	30-3137
0.2173	0.4765	1.640	6-SR	30-8397
0.2175	0.3774	1.455	1-SR	30-3028
0.2175	0.4072	1.850	5-P	30-3135
0.2175	0.4073	1.630	5-P	30-3134
0.2175	0.4075	1.360	5-SR	30-8584
0.2175	0.4075	1.590	5-SR	30-8585
0.2175	0.4075	1.715	5-P	30-3248
0.2175	0.4765	1.645	11-SR	30-8576
0.2175	0.4765	1.870	11-SR	30-8577
0.2177	0.4355	1.395	1-P	30-3170
0.2340	0.4350	1.650	4-SR	30-8189
0.235	0.435	1.475	7-P	31-2074
0.2350	0.4355	1.850	5-SR	30-8291
0.2353	0.4350	1.654	5-SR	30-8671
0.2354	0.4350	1.654	2-SR	30-8670
0.2355	0.3950	1.378	8-P	30-3011
0.2355	0.3950	1.773	8-P	30-3010
0.2355	0.3955	1.380	1-P	31-3011
0.2355	0.3955	1.770	1-P	31-3010
0.2355	0.4333	1.700	2-SR	30-8666
0.2355	0.4358	1.655	1-SR	30-3112
0.2355	0.4360	1.735	1-SR	30-8556
0.2355	0.4360	1.790	4-SR	30-8554
0.2355	0.4360	1.835	1-SR	30-8555
0.2355	0.4380	1.790	4-SR	30-8554+2
0.2355	0.4380	1.835	1-SR	30-8555+2
0.236	0.435	1.450	7-P	31-2075
0.236	0.435	1.582	1-P	30-3284
0.236	0.4360	1.415		30-3252
0.2360	0.4333	1.500	2-SR	30-8668
0.2360	0.4355	1.618	1-P	30-3019
0.2360	0.4360	1.415	1-P	31-03419
0.2360	0.4360	1.440	5-SR	30-8570
0.2360	0.4360	1.540	5-SR	30-8573
0.2360	0.4360	1.556	5-SR	30-3118
0.2360	0.4360	1.690	5-SR	30-8572

I.D.	O.D	Length	Type	QC #
0.2360	0.4360	1.750	4-SR	30-8567
0.2360	0.4360	1.872	5-SR	30-3119
0.2360	0.4360	1.990	4-SR	30-8571
0.2360	0.4360	1.990	4-SR	30-8569
0.2360	0.4365	1.380	4-SR	30-8566
0.2360	0.4950	1.890	1-P	31-8560
0.2365	0.3950	1.420	1-P	30-3029
0.2365	0.3950	1.580	5-SR	30-8190
0.2365	0.3950	1.695	4-SR	30-8191
0.2365	0.3955	1.690	4-SR	30-8217
0.2365	0.3955	1.690	5-SR	30-8216
0.2365	0.3955	1.815	5-SR	30-8543
0.2365	0.3955	1.940	4-SR	30-8544
0.2365	0.4355	1.575	1-P	30-3046
0.2365	0.4355	1.890	4-SR	30-8273
0.2365	0.4360	1.575	4-SR	30-8559
0.2365	0.4365	1.280	4-SR	30-8564
0.2365	0.4365	1.595	4-SR	30-8565
0.2366	0.4493	1.510	1-SR	30-3020
0.2367	0.3955	1.970	5-SR	30-8214
0.2367	0.4365	2.065	5-SR	30-8203
0.2367	0.4385	2.065	5-SR	30-8203+2
0.2370	0.4350	1.455	5-SR	30-8208
0.2370	0.4355	1.810	5-SR	30-8255
0.2370	0.4355	1.910	5-SR	30-8542
0.2370	0.4355	2.205	5-SR	30-8541
0.2370	0.4360	1.490	5-SR	30-8561
0.2370	0.4360	1.520	5-SR	30-8147
0.2370	0.4360	1.724	1-SR	30-3047
0.2370	0.4360	1.775	4-SR	30-8173
0.2370	0.4360	1.808	4-SR	30-8174
0.2370	0.4955	1.880	1-SR	30-8560
0.2371	0.4350	1.595	5-SR	30-8038
0.2371	0.4355	1.600	4-SR	30-8195
0.2371	0.4355	1.775	5-SR	30-8198
0.2371	0.4355	1.920	4-SR	30-8186
0.2371	0.4355	1.920	5-SR	30-8187
0.2371	0.4375	1.600	4-SR	30-8195+2
0.2372	0.4352	1.535	2-P	30-3162
0.2373	0.4395	1.715	1-P	30-3166
0.238				30-3251
0.2388	0.4736	1.421	2-SR	30-8662
0.2510	0.4390	2.313	1-SR	30-9611
0.2510	0.4390	2.313	1-P	30-5611
0.2600	0.4192	2.085	4-SR	30-8215
0.2600	0.4755	1.730	5-P	30-7578
0.2600	0.4755	1.795	5-SR	30-8193
0.2600	0.4755	1.950	5-P	30-7589
0.2600	0.4755	1.990	5-SR	30-8194
0.2600	0.4775	1.795	5-SR	30-8193+2
0.2600	0.4775	1.950	5-P	30-7589+2
0.2600	0.4775	1.990	5-SR	30-8194+2
0.2605	0.4755	1.535	4-SR	30-8580
0.2605	0.4755	1.775	5-SR	30-8578
0.2605	0.4755	1.850	5-SR	30-8153
0.2605	0.4755	1.970	5-SR	30-7830
0.2605	0.4755	1.970	4-SR	30-8579
0.2605	0.4755	2.086	6-SR	30-8154
0.2605	0.4765	1.695	4-SR	30-8581
0.2605	0.4765	1.770	5-SR	30-8156
0.2605	0.4765	1.975	4-SR	30-8155
0.2610	0.4755	2.165	4-SR	30-7659
0.2630	0.4775	2.165	4-SR	30-7659+2
0.2745	0.4725	1.770	8-SR	30-8552
0.275	0.476	1.500	29-SR	31-8139
0.2750	0.4350	1.890	4-SR	30-8233



# VALVE GUIDE PROGRESSIVE SIZE LISTING BY I.D.

I.D.	O.D	Length	Type	QC #
0.2750	0.4545	2.040	3-SR	30-8548
0.2750	0.4940	1.476	8-P	30-3255
0.2751	0.4934	2.275	4-SR	30-3023
0.2752	0.4720	1.702	1-P	30-3026
0.2752	0.4720	1.820	1-P	30-3149
0.2752	0.4740	1.702	1-P	30-3026+2
0.2755	0.4495	1.510	1-SR	30-8293
0.2755	0.4495	2.125	1-SR	30-8292
0.2755	0.4547	1.967	4-P	30-3049
0.2755	0.4547	1.967	1-P	30-3142
0.2755	0.4550	2.300	8-SR	30-8557
0.2755	0.4745	1.990	3-SR	30-8205
0.2755	0.5120	1.640	1-SR	30-8593
0.2757	0.4550	1.690	5-SR	30-8020
0.2757	0.4550	1.930	5-SR	30-8021
0.2757	0.4760	1.895	5-SR	30-8016
0.2757	0.5830	2.320	8-SR	30-8535
0.2757	0.5830	2.770	8-SR	30-8536
0.2760	0.4345	2.315	5-SR	30-8388
0.2760	0.4350	1.550	4-SR	30-8204
0.2760	0.4350	1.770	3-SR	30-7826
0.2760	0.4350	2.070	5-SR	30-8211
0.2760	0.4350	2.081	5-P	30-3216
0.2760	0.4365	2.315	5-SR	30-8388+2
0.2760	0.4423	2.315	11-SR	30-7873
0.2760	0.4480	1.474	4-SR	30-8181
0.2760	0.4725	1.740	2-SR	30-8663
0.2760	0.4745	2.166	5-SR	30-8145
0.2760	0.4745	2.167	4-SR	30-7825
0.2760	0.4745	2.280	5-SR	30-8192
0.2760	0.4745	2.325	5-SR	30-8146
0.2760	0.4950	2.200	3-SR	30-8547
0.2762	0.4550	1.695	5-SR	30-8014
0.2762	0.4550	1.970	5-SR	30-8015
0.2763	0.5110	2.289	1-P	30-3009
0.2763	0.5130	2.289	1-P	30-3009+2
0.2764	0.4725	2.150	1-P	30-3163
0.2765	0.4395	2.331	21-P	30-3055
0.2765	0.4550	1.660	4-SR	30-8586
0.2765	0.4745	1.970	4-SR	30-8036
0.2765	0.4755	1.965	5-P	30-7711
0.2765	0.4755	2.168	6-P	30-7710
0.2765	0.4755	2.360	3-SR	30-8140
0.2765	0.4760	2.088	3-SR	30-8142
0.2765	0.4765	1.435	29-SR	30-8558
0.2765	0.4765	1.483	29-SR	30-8139
0.2765	0.4775	2.168	6-P	30-7710+2
0.2765	0.4953	1.930	1-P	31-8274
0.2765	0.4953	1.930	1-SR	30-8274
0.2765	0.4955	1.930	8-SR	30-8675
0.2765	0.4955	2.050	1-SR	30-8575
0.2765	0.4955	2.200	1-SR	30-8574
0.2765	0.4973	1.930	1-SR	30-8274+2
0.2765	0.5020	2.000	1-SR	30-3207
0.2767	0.5140	1.740	2-SR	30-8124
0.2767	0.5160	1.740	2-SR	30-8124+2
0.2768	0.4390	2.200	1-SR	30-3066
0.2768	0.4747	2.500	21-SR	30-3048
0.2771	0.4342	1.790	5-SR	30-8039
0.2771	0.4362	1.790	5-SR	30-8039+2
0.2775	0.4395	1.937	1-SR	30-3080
0.2775	0.4395	2.020	1-SR	30-3081
0.2776	0.5015	1.937	21-SR	30-3033
0.2776	0.5015	1.937	21-SR	30-3021
0.2776	0.5015	2.018	21-SR	30-3022
0.2776	0.5015	2.020	21-SR	30-3034

I.D.	O.D	Length	Type	QC #
0.2807	0.5830	2.320	8-SR	30-8588
0.2807	0.5830	2.770	8-SR	30-8589
0.295	0.5525	2.363	8-P	30-3285
0.3070	0.4390	2.281	1-SR	30-9872U
0.3070	0.5020	2.281	1-SR	30-9977U
0.3115	0.4390	3.063	1-SR	30-9546
0.3115	0.4390	3.063	1-P	30-7546
0.312	0.502	2.281	1-SR	30-9977H
0.3120	0.4390	2.188	1-SR	30-6897H
0.3120	0.4390	2.281	1-P	30-6872
0.3120	0.4390	2.281	1-SR	30-9872
0.3120	0.4390	2.875	1-SR	30-6896H
0.3120	0.5020	2.000	8-P	30-7205
0.3120	0.5020	2.000	8-SR	30-9205
0.3120	0.5020	2.281	1-SR	30-9977
0.3120	0.5020	2.281	1-P	30-6977
0.3120	0.5020	2.380	1-P	30-7679
0.3125	0.4390	1.875	1-P	30-6869
0.3125	0.4390	1.875	1-SR	30-9869
0.3125	0.4934	1.693	4-SR	30-8419
0.3125	0.4937	1.575	4-P	30-8418
0.3125	0.5020	1.875	1-P	30-7663
0.3135	0.4390	2.500	1-SR	30-6587
0.3135	0.5015	2.860	21-SR	30-8658
0.3135	0.5015	3.081	21-SR	30-8659
0.3135	0.5020	2.250	17-SR	30-7847
0.3135	0.5020	2.436	21-SR	30-8494
0.3135	0.5020	2.438	1-SR	30-9848
0.3145	0.4740	2.160	2-P	30-7714
0.3145	0.4745	1.810	2-P	30-7713
0.3145	0.4750	1.990	2-SR	30-7395
0.3145	0.4760	2.160	2-P	30-7714+2
0.3145	0.4765	1.670	30-SR	30-7852
0.3145	0.4765	1.810	2-P	30-7713+2
0.3145	0.4937	1.575	4-P	30-7429N
0.3145	0.4937	1.693	4-P	30-7451N
0.3145	0.4955	2.275	4-SR	30-8219+2
0.3145	0.4957	1.575	4-P	30-7429N+2
0.3145	0.4957	1.693	4-P	30-7451N+2
0.3145	0.502	2.440	21-SR	30-3257
0.3145	0.5020	1.575	4-P	30-7661
0.3145	0.5020	1.693	4-P	30-7662
0.3145	0.5040	1.693	4-SR	30-7662+2
0.3145	0.5250	2.185	1-SR	30-3031
0.3145	0.5250	2.185	8-SR	30-3156
0.3145	0.5315	2.045	12-SR	30-8553
0.3145	0.5530	1.970	2-P	30-7656
0.3145	0.5640	2.440	1-SR	30-8562
0.3149	0.4755	2.400	19-P	31-8202
0.3149	0.5140	2.400	19-P	31-8206
0.3150	0.4390	2.200	1-SR	30-9204
0.3150	0.4745	2.165	5-SR	30-7581
0.3150	0.4765	1.450	29-P	31-7359
0.3150	0.5020	2.250	1-P	30-8013
0.3150	0.5020	2.250	1-SR	30-8040
0.3150	0.5020	2.375	1-SR	30-9690
0.3150	0.5145	2.531	19-SR	30-7471
0.3150	0.5526	2.245	11-P	30-3101
0.3153	0.5145	2.260	5-SR	30-8143
0.3154	0.5000	2.115	1-SR	30-3053
0.3154	0.5000	2.115	1-SR	30-3053H
0.3155	0.4680	2.045	1-SR	30-8209
0.3155	0.4745	1.930	2-SR	30-7542
0.3155	0.4745	2.205	4-SR	30-8212
0.3155	0.4745	2.313	5-SR	30-7499
0.3155	0.4745	2.660	5-SR	30-7828

# VALVE GUIDE PROGRESSIVE SIZE LISTING BY I.D.

I.D.	O.D	Length	Type	QC #
0.3155	0.4751	2.625	18-SR	30-6097
0.3155	0.4805	2.313	5-SR	30-7499+6
0.3155	0.4935	2.275	4-SR	30-8219
0.3155	0.5020	1.750	1-P	30-7583
0.3155	0.5020	2.000	1-SR	30-9705
0.3155	0.5020	2.000	1-P	30-7705
0.3155	0.5070	2.000	1-SR	30-9705+5
0.3155	0.5145	1.980	10-SR	30-7541
0.3155	0.5145	2.800	5-SR	30-7850
0.3155	0.5145	2.920	5-SR	30-7851
0.3155	0.5250	2.185	1-SR	30-3032
0.3155	0.5315	2.045	1-SR	30-8551
0.3155	0.5525	2.085	1-SR	30-3067
0.3155	0.5525	2.130	5-SR	30-7532
0.3155	0.5530	2.085	11-SR	30-8112
0.3155	0.5550	2.085	11-SR	30-8112+2
0.3155	0.5830	2.320	8-SR	30-8115
0.3155	0.5830	2.770	8-SR	30-8114
0.316	0.552	2.365	8-P	30-3276
0.3160	0.4740	2.500	4-SR	30-8389
0.3160	0.4745	1.930	2-SR	30-7545
0.3160	0.4820	2.500	7-SR	30-8017
0.3160	0.5140	1.820	4-SR	30-8207
0.3160	0.5145	1.735	5-SR	30-7576
0.3160	0.5145	1.813	3-SR	30-7535
0.3160	0.5145	1.848	5-SR	30-7574
0.3160	0.5145	1.890	5-SR	30-7577
0.3160	0.5145	1.970	4-SR	30-8201
0.3160	0.5145	1.970	3-SR	30-7540
0.3160	0.5145	2.045	4-SR	30-8202
0.3160	0.5145	2.046	5-SR	30-7575
0.3160	0.5145	2.135	5-SR	30-7534
0.3160	0.5145	2.260	5-SR	30-7523
0.3160	0.5160	1.820	4-SR	30-8207+2
0.3160	0.5165	1.735	5-SR	30-7576+2
0.3160	0.5165	1.848	5-SR	30-7574+2
0.3160	0.5165	1.890	5-SR	30-7577+2
0.3160	0.5165	2.046	5-SR	30-7575+2
0.3160	0.5165	2.260	5-SR	30-7523+2
0.3160	0.5205	1.848	5-SR	30-7574+6
0.3160	0.5205	1.890	5-SR	30-7577+6
0.3160	0.5205	2.046	5-SR	30-7575+6
0.3160	0.5525	2.322	8-SR	30-7529
0.3160	0.5535	2.247	15-SR	30-7537
0.3160	0.5640	2.360	8-SR	30-7527
0.3160	0.5640	2.765	8-SR	30-7528
0.3160	0.5645	1.848	7-SR	30-8225
0.3160	0.5645	2.046	7-SR	30-8226
0.3162	0.5525	2.037	1-SR	30-8178
0.3162	0.5525	2.382	1-SR	30-8177
0.3173	0.5533	2.177	1-SR	30-8172
0.3173	0.5553	2.177	1-SR	30-8172+2
0.3175	0.5020	2.000	8-SR	30-9198
0.3175	0.5020	2.000	8-P	30-7198
0.3175	0.5339	2.540	8-P	30-3012
0.3175	0.5350	2.525	7-P	30-7822
0.3175	0.5370	2.525	7-P	30-7822+2
0.3175	0.5655	2.525	7-P	30-7823
0.3180	0.5530	2.360	3-SR	30-8141
0.3180	0.5535	2.000	2-SR	30-9557
0.3180	0.5920	2.520	8-SR	30-8171
0.3185	0.5535	1.990	6-P	30-7462
0.3185	0.5535	1.990	6-SR	30-9462
0.3355	0.5530	2.400	5-SR	30-8196
0.3390	0.5020	2.188	21-SR	30-9206U
0.3390	0.5020	2.375	1-SR	30-9606U

I.D.	O.D	Length	Type	QC #
0.3390	0.5020	2.500	1-P	30-6105U
0.3395	0.5020	2.250	1-SR	30-9607U
0.3420	0.5020	2.120	21-P	30-3015
0.3420	0.5020	2.210	21-P	30-3016
0.3420	0.5020	2.375	1-P	30-7907
0.3420	0.5020	2.375	1-SR	30-9907
0.3420	0.5020	2.875	1-SR	30-9909
0.3420	0.5020	2.875	1-P	30-7909
0.3420	0.5640	2.250	1-SR	30-7507
0.3425	0.5020	2.250	1-SR	30-9908
0.3425	0.5020	2.250	1-P	30-7908
0.3425	0.6270	2.180	11-P	30-1900
0.3425	0.6575	2.813	11-P	30-1338
0.3427	0.6575	2.563	11-P	30-1515
0.343	0.502	2.500	1-SR	30-9460H
0.3430	0.5020	2.125	1-P	30-7715
0.3430	0.5020	2.125	1-SR	30-9715
0.3430	0.5020	2.250	1-SR	30-9946
0.3430	0.5020	2.250	1-P	30-7946
0.3430	0.5020	2.375	1-SR	30-9459
0.3430	0.5020	2.375	1-P	30-7459
0.3430	0.5020	2.500	1-P	30-7460
0.3430	0.5020	2.500	1-SR	30-9460
0.3430	0.5020	2.750	1-SR	30-9106
0.3430	0.5020	2.750	1-P	30-6106
0.3430	0.5020	3.063	1-SR	30-9259
0.3430	0.5020	3.063	1-P	30-7259
0.3430	0.5040	2.250	1-SR	30-9946+2
0.3430	0.5040	2.250	1-P	30-7946+2
0.3430	0.5040	2.375	1-SR	30-9459+2
0.3430	0.5040	2.500	1-SR	30-9460+2
0.3430	0.5040	2.750	1-SR	30-9106+2
0.3430	0.5577	2.275	1-SR	30-8180
0.3430	0.5597	2.275	1-SR	30-8180+2
0.3430	0.5640	3.063	1-SR	30-7278
0.3432	0.5655	2.188	1-P	30-1476
0.3435	0.5020	2.125	4-SR	30-8446
0.3435	0.5020	2.260	4-SR	30-8447
0.3435	0.5200	2.220	8-P	30-1918+2
0.3435	0.5645	3.000	3-P	30-1690
0.3435	0.5650	2.188	1-P	30-1758
0.3435	0.5650	2.438	1-P	30-1527
0.3435	0.5650	3.344	8-P	30-1732
0.3435	0.5655	3.219	8-P	30-1453
0.3435	0.5955	2.531	10-P	30-1928
0.3435	0.6575	2.922	3-P	30-1613
0.3435	1.0305	2.210	36-P	30-1614
0.3437	0.6010	2.250	3-P	30-1819
0.344	0.502	2.250	1-SR	30-9607H
0.344	0.502	3.063	1-SR	30-9523H
0.3440	0.4990	2.250	1-SR	30-8545
0.3440	0.5020	1.656	21-SR	30-9191
0.3440	0.5020	2.000	1-SR	30-9560
0.3440	0.5020	2.000	1-P	30-7560
0.3440	0.5020	2.125	1-P	30-6867
0.3440	0.5020	2.125	1-SR	30-9867
0.3440	0.5020	2.188	21-SR	30-9206
0.3440	0.5020	2.188	21-P	30-7206
0.3440	0.5020	2.250	1-SR	30-9607
0.3440	0.5020	2.250	1-P	30-5607
0.3440	0.5020	2.313	21-SR	30-9846
0.3440	0.5020	2.375	1-P	30-5606
0.3440	0.5020	2.375	1-SR	30-9606
0.3440	0.5020	2.500	1-SR	30-9105
0.3440	0.5020	2.500	1-P	30-6105
0.3440	0.5020	2.625	1-SR	30-9604

# VALVE GUIDE PROGRESSIVE SIZE LISTING BY I.D.

I.D.	O.D	Length	Type	QC #
0.3440	0.5020	2.625	1-P	30-5604
0.3440	0.5020	2.875	1-P	30-5612
0.3440	0.5020	2.875	1-SR	30-9612
0.3440	0.5020	3.063	1-SR	30-9523
0.3440	0.5020	3.063	1-P	30-6523
0.3440	0.5040	2.125	1-SR	30-9867+2
0.3440	0.5040	2.625	1-P	30-5604+2
0.3440	0.5640	2.250	1-SR	30-7272
0.3440	0.5640	2.375	1-SR	30-7271
0.3440	0.5640	2.625	1-SR	30-7588
0.3440	0.5640	2.875	1-SR	30-7552
0.3440	0.5670	2.250	1-SR	30-7272+3
0.3440	0.6890	3.078	3-P	30-1411
0.3445	0.5020	2.500	1-SR	30-9708
0.3445	0.5638	2.266	8-SR	30-1745
0.3445	0.5638	2.313	8-SR	30-1684
0.3445	0.5645	2.625	3-P	30-1689
0.3445	0.6575	2.813	11-P	30-1337
0.3450	0.5020	2.125	1-SR	30-9873
0.3450	0.5020	2.125	1-P	30-6873
0.3450	0.5020	2.375	1-SR	30-9561
0.3450	0.5640	2.375	1-SR	30-7562
0.3530	0.5145	2.400	19-SR	30-7473
0.3536	0.5140	2.400	19-P	31-7473
0.3547	0.5526	2.365	1-P	30-3054
0.3555	0.5535	2.415	1-SR	30-7538
0.3690	0.5020	2.375	1-SR	30-9108U
0.3720	0.5020	2.625	1-SR	30-9850
0.3720	0.5020	2.625	1-P	30-6850
0.3730	0.4813	2.615	21-SR	30-8037
0.3730	0.502	2.625	1-SR	30-9964H
0.3730	0.5020	2.188	1-SR	30-9716
0.3730	0.5020	2.375	1-P	30-7298
0.3730	0.5020	2.375	1-SR	30-9298
0.3730	0.5020	2.625	1-SR	30-9964
0.3730	0.5020	2.750	1-P	30-7554
0.3730	0.5020	2.750	1-SR	30-9554
0.3730	0.5020	2.875	1-SR	30-9260
0.3730	0.5020	2.875	1-P	30-7260
0.3730	0.5640	2.375	1-SR	30-7291
0.3730	0.5640	2.875	1-SR	30-7279
0.3730	0.6205	2.220	33-SR	30-8407
0.3730	0.6270	2.680	1-SR	30-8409
0.3735	0.5020	2.598	1-SR	30-8357
0.3735	0.5020	2.598	1-P	30-7681
0.3735	0.5020	3.000	1-P	30-7682
0.3735	0.5020	3.000	1-SR	30-8356
0.3735	0.5020	3.969	1-SR	30-7669
0.3735	0.6200	2.227	16-P	30-8351
0.3735	0.6203	2.620	9-SR	30-3024
0.3735	0.6255	2.420	8-P	30-1973
0.3735	0.6255	2.420	8-SR	30-9973
0.3735	0.6265	2.250	9-SR	30-3025
0.3735	0.6355	2.420	8-SR	30-9973+10
0.374	0.502	2.375	1-SR	30-9108H
0.374	0.502	3.063	1-SR	30-9458H
0.374	0.621	2.630	12-SR	30-9972H
0.3740	0.5020	2.250	1-SR	30-9107
0.3740	0.5020	2.250	1-P	30-6107
0.3740	0.5020	2.375	1-SR	30-9108
0.3740	0.5020	2.375	1-P	30-6108
0.3740	0.5020	2.500	1-P	30-6109
0.3740	0.5020	2.500	1-SR	30-9109
0.3740	0.5020	2.625	1-P	30-6110
0.3740	0.5020	2.625	1-SR	30-9110
0.3740	0.5020	2.875	1-SR	30-9111

I.D.	O.D	Length	Type	QC #
0.3740	0.5020	2.875	1-P	30-6111
0.3740	0.5020	3.063	1-SR	30-9458
0.3740	0.5020	3.063	1-P	30-7458
0.3740	0.5640	2.375	1-SR	30-7276
0.3740	0.5640	2.500	1-SR	30-7277
0.3740	0.5640	2.625	1-SR	30-7447
0.3740	0.5640	2.875	1-SR	30-7247
0.3740	0.6008	2.250	4-P	30-1919
0.3740	0.6163	2.755	19-SR	30-8256
0.3740	0.6205	2.200	15-SR	30-7999
0.3740	0.6205	2.435	18-SR	30-8113
0.3740	0.6205	2.630	12-SR	30-9972
0.3740	0.6205	2.630	12-P	30-1972
0.3740	0.6205	2.740	12-P	30-7208
0.3740	0.6205	2.740	12-SR	30-9208
0.3740	0.6235	2.630	12-SR	30-9972+3
0.3740	0.6270	2.600	1-P	30-7712
0.3745	0.5020	2.250	1-P	30-6112
0.3745	0.5020	2.250	1-SR	30-9112
0.3745	0.5020	2.375	1-SR	30-9113
0.3745	0.5020	2.375	1-P	30-6113
0.3745	0.6252	2.600	1-P	30-7689
0.3745	0.6265	2.750	10-P	30-1733
0.3745	0.6265	3.063	8-P	30-1384
0.3745	0.6890	3.280	12-P	30-1840
0.3745	0.6895	2.813	1-P	30-1740
0.3745	0.6895	2.938	13-P	30-1803
0.3750	0.5020	2.125	1-P	30-5608
0.3750	0.5020	2.500	1-P	30-6114
0.3750	0.5020	2.500	1-SR	30-9114
0.3750	0.5020	2.625	1-P	30-5610
0.3750	0.5020	2.625	1-SR	30-9610
0.3750	0.5020	2.750	1-SR	30-9115
0.3750	0.5020	2.750	1-P	30-6115
0.3750	0.5640	2.750	1-SR	30-7248
0.3750	0.5640	3.000	1-SR	30-7448
0.3750	0.6270	2.563	11-P	30-1937
0.3750	0.6270	3.969	1-SR	30-6905
0.3750	0.6580	2.375	8-P	30-1704
0.3750	0.6580	2.750	13-P	30-1504
0.3750	0.6580	3.063	11-P	30-1342
0.3973	0.6580	2.375	1-SR	30-1878
0.4365	0.6270	3.270	1-P	30-7680
0.4365	0.7520	2.875	8-P	30-1701
0.4370	0.6570	2.188	3-P	30-1609
0.4375	0.6270	2.500	1-P	30-6119
0.4375	0.6270	2.500	1-SR	30-9119
0.4375	0.6270	2.625	1-P	30-5609
0.4375	0.6270	2.750	1-P	30-6120
0.4375	0.6270	3.000	1-P	30-7197
0.4375	0.6270	3.000	1-SR	30-9197
0.4375	0.6270	3.125	1-P	30-6116
0.4375	0.6270	3.125	1-SR	30-9116
0.4375	0.6290	2.500	1-P	30-6119+2
0.4375	0.6290	2.625	1-P	30-5609+2
0.4378	0.6270	2.625	1-SR	30-9609
0.4380	0.6275	3.250	1-SR	30-6906
0.4385	0.6890	3.090	1-P	30-1839

# CONVERSION VALVE GUIDE SIZE LISTING BY I.D.

I.D.	O.D.	Length	Type	QC #
0.2510	0.4390	2.313	1-P	30-5611
0.2510	0.4390	2.313	1-SR	30-9611
0.2765	0.5020	2.000	1-SR	30-3207
0.3070	0.4390	2.281	1-SR	30-9872U
0.3070	0.5020	2.281	1-SR	30-9977U
0.3115	0.4390	3.063	1-P	30-7546
0.3115	0.4390	3.063	1-SR	30-9546
0.312	0.502	2.281	1-SR	30-9977H
0.3120	0.4390	2.281	1-P	30-6872
0.3120	0.4390	2.281	1-SR	30-9872
0.3120	0.5020	2.281	1-P	30-6977
0.3120	0.5020	2.281	1-SR	30-9977
0.3120	0.5020	2.380	1-P	30-7679
0.3125	0.4390	1.875	1-P	30-6869
0.3125	0.4390	1.875	1-SR	30-9869
0.3125	0.5020	1.875	1-P	30-7663
0.3135	0.4390	2.500	1-SR	30-6587
0.3135	0.5020	2.438	1-SR	30-9848
0.3145	0.5640	2.440	1-SR	30-8562
0.3150	0.4390	2.200	1-SR	30-9204
0.3150	0.5020	2.250	1-P	30-8013
0.3150	0.5020	2.250	1-SR	30-8040
0.3150	0.5020	2.375	1-SR	30-9690
0.3155	0.5020	1.750	1-P	30-7583
0.3155	0.5020	2.000	1-P	30-7705
0.3155	0.5020	2.000	1-SR	30-9705
0.3155	0.5070	2.000	1-SR	30-9705+5
0.3390	0.5020	2.375	1-SR	30-9606U
0.3390	0.5020	2.500	1-P	30-6105U
0.3395	0.5020	2.250	1-SR	30-9607U
0.3420	0.5020	2.375	1-P	30-7907
0.3420	0.5020	2.375	1-SR	30-9907
0.3420	0.5020	2.875	1-P	30-7909
0.3420	0.5020	2.875	1-SR	30-9909
0.3420	0.5640	2.250	1-SR	30-7507
0.3425	0.5020	2.250	1-P	30-7908
0.3425	0.5020	2.250	1-SR	30-9908
0.343	0.502	2.500	1-SR	30-9460H
0.3430	0.5020	2.125	1-P	30-7715
0.3430	0.5020	2.125	1-SR	30-9715
0.3430	0.5020	2.250	1-P	30-7946
0.3430	0.5020	2.250	1-SR	30-9946
0.3430	0.5020	2.375	1-P	30-7459
0.3430	0.5020	2.375	1-SR	30-9459
0.3430	0.5020	2.500	1-P	30-7460
0.3430	0.5020	2.500	1-SR	30-9460
0.3430	0.5020	2.750	1-P	30-6106
0.3430	0.5020	2.750	1-SR	30-9106
0.3430	0.5020	3.063	1-P	30-7259
0.3430	0.5020	3.063	1-SR	30-9259
0.3430	0.5040	2.250	1-P	30-7946+2
0.3430	0.5040	2.250	1-SR	30-9946+2
0.3430	0.5040	2.375	1-SR	30-9459+2
0.3430	0.5040	2.500	1-SR	30-9460+2
0.3430	0.5040	2.750	1-SR	30-9106+2
0.3430	0.5640	3.063	1-SR	30-7278
0.344	0.502	2.250	1-SR	30-9607H
0.344	0.502	3.063	1-SR	30-9523H
0.3440	0.5020	2.000	1-P	30-7560
0.3440	0.5020	2.000	1-SR	30-9560
0.3440	0.5020	2.125	1-P	30-6867
0.3440	0.5020	2.125	1-SR	30-9867
0.3440	0.5020	2.250	1-P	30-5607
0.3440	0.5020	2.250	1-SR	30-9607
0.3440	0.5020	2.375	1-SR	30-9606
0.3440	0.5020	2.500	1-P	30-6105

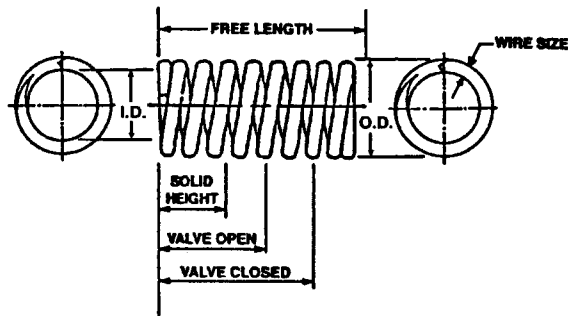
I.D.	O.D.	Length	Type	QC #
0.3440	0.5020	2.500	1-SR	30-9105
0.3440	0.5020	2.625	1-P	30-5604
0.3440	0.5020	2.625	1-SR	30-9604
0.3440	0.5020	2.875	1-P	30-5612
0.3440	0.5020	2.875	1-SR	30-9612
0.3440	0.5020	3.063	1-P	30-6523
0.3440	0.5020	3.063	1-SR	30-9523
0.3440	0.5040	2.125	1-SR	30-9867+2
0.3440	0.5040	2.625	1-P	30-5604+2
0.3440	0.5640	2.250	1-SR	30-7272
0.3440	0.5640	2.375	1-SR	30-7271
0.3440	0.5640	2.625	1-SR	30-7588
0.3440	0.5640	2.875	1-SR	30-7552
0.3440	0.5670	2.250	1-SR	30-7272+3
0.3445	0.5020	2.500	1-SR	30-9708
0.3450	0.5020	2.125	1-P	30-6873
0.3450	0.5020	2.125	1-SR	30-9873
0.3450	0.5020	2.375	1-SR	30-9561
0.3450	0.5640	2.375	1-SR	30-7562
0.3690	0.5020	2.375	1-SR	30-9108U
0.3720	0.5020	2.625	1-P	30-6850
0.3720	0.5020	2.625	1-SR	30-9850
0.3730	0.502	2.625	1-SR	30-9964H
0.3730	0.5020	2.188	1-SR	30-9716
0.3730	0.5020	2.375	1-P	30-7298
0.3730	0.5020	2.375	1-SR	30-9298
0.3730	0.5020	2.625	1-SR	30-9964
0.3730	0.5020	2.750	1-P	30-7554
0.3730	0.5020	2.750	1-SR	30-9554
0.3730	0.5020	2.875	1-P	30-7260
0.3730	0.5020	2.875	1-SR	30-9260
0.3730	0.5640	2.375	1-SR	30-7291
0.3730	0.5640	2.875	1-SR	30-7279
0.3735	0.5020	2.598	1-P	30-7681
0.3735	0.5020	2.598	1-SR	30-8357
0.3735	0.5020	3.000	1-P	30-7682
0.3735	0.5020	3.000	1-SR	30-8356
0.3735	0.5020	3.969	1-SR	30-7669
0.374	0.502	2.375	1-SR	30-9108H
0.374	0.502	3.063	1-SR	30-9458H
0.374	0.621	2.630	12-SR	30-9972H
0.3740	0.5020	2.250	1-P	30-6107
0.3740	0.5020	2.375	1-P	30-6108
0.3740	0.5020	2.375	1-SR	30-9108
0.3740	0.5020	2.500	1-P	30-6109
0.3740	0.5020	2.625	1-P	30-6110
0.3740	0.5020	2.625	1-SR	30-9110
0.3740	0.5020	2.875	1-P	30-6111
0.3740	0.5020	2.875	1-SR	30-9111
0.3740	0.5020	3.063	1-P	30-7458
0.3740	0.5020	3.063	1-SR	30-9458
0.3740	0.5640	2.375	1-SR	30-7276
0.3740	0.5640	2.500	1-SR	30-7277
0.3740	0.5640	2.625	1-SR	30-7447
0.3740	0.5640	2.875	1-SR	30-7247
0.3740	0.6270	2.600	1-P	30-7712
0.3745	0.5020	2.250	1-P	30-6112
0.3745	0.5020	2.250	1-SR	30-9112
0.3745	0.5020	2.375	1-P	30-6113
0.3745	0.5020	2.375	1-SR	30-9113
0.3750	0.5020	2.125	1-P	30-5608
0.3750	0.5020	2.500	1-P	30-6114
0.3750	0.5020	2.500	1-SR	30-9114
0.3750	0.5020	2.625	1-P	30-5610
0.3750	0.5020	2.625	1-SR	30-9610
0.3750	0.5020	2.750	1-P	30-6115

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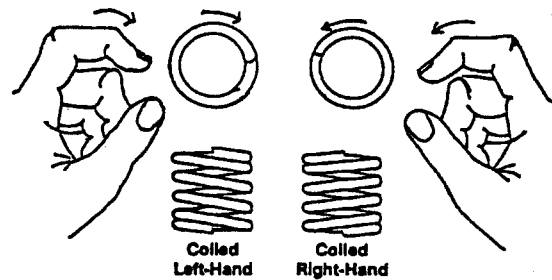
## CONVERSION VALVE GUIDE SIZE LISTING BY I.D.

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I.D.	O.D.	Length	Type	QC #
0.3750	0.5020	2.750	1-SR	30-9115
0.3750	0.5640	2.750	1-SR	30-7248
0.3750	0.5640	3.000	1-SR	30-7448
0.3750	0.6270	3.969	1-SR	30-6905
0.4365	0.6270	3.270	1-P	30-7680
0.4375	0.6270	2.500	1-P	30-6119
0.4375	0.6270	2.500	1-SR	30-9119
0.4375	0.6270	2.625	1-P	30-5609
0.4375	0.6270	2.750	1-P	30-6120
0.4375	0.6270	3.000	1-P	30-7197
0.4375	0.6270	3.000	1-SR	30-9197
0.4375	0.6270	3.125	1-P	30-6116
0.4375	0.6270	3.125	1-SR	30-9116
0.4375	0.6290	2.500	1-P	30-6119+2
0.4375	0.6290	2.625	1-P	30-5609+2
0.4380	0.6275	3.250	1-SR	30-6906



**Direction of Coiling Helical Compression Springs**



Illustrations Are For Reference Only And Are NOT Drawn To Scale.

**SPRING NUMERICAL LISTING**

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-219	2.387	1.275	0.192	1.446	1.062	204 @ 1.400	107 @ 1.850	6.700 LH	FDI, FOR
32-433	2.500	1.519	0.162	1.183/1.193	0.856	50-56 @ 2.1094	116-124 @ 1.750	9.375 LH	CHC
32-5009	1.910	1.030	0.128	0.927T	0.671T	53 @ 1.450	115 @ 1.080	8.20 RH	FOR
32-529	1.970	1.240	0.177	1.239	0.875/0.895	70-77 @ 1.660	148-162 @ 1.400	7.000 LH	CHC
32-558	2.250	1.390	0.182	1.333	0.969	74-82 @ 1.858	186-192 @ 1.462	8.000 LH	GM
32-575	2.030	1.190	0.170	1.212/1.228	0.872/0.888	76-84 @ 1.696	155-165 @ 1.366	7.250 RH	GMM, GM
32-576	1.980	1.020	0.162	1.385	1.061	55-61 @ 1.533	98-106 @ 1.203	6.250 RH	GM
32-577	1.760	0.960	1.120	0.963	0.723	23-29 @ 1.483	54-60 @ 1.153	8.000 LH	GM
32-611	2.090	1.300	0.177	1.364	1.000/1.020	71-79 @ 1.780	161-177 @ 1.390	7.000 LH	FOR, FDI, FTA
32-619	2.250	1.394	0.170	1.212/1.228	0.872/0.888	60-65 @ 1.946	155-165 @ 1.496	8.200 RH	GM
32-672	2.000	1.203	0.192	1.394/1.414	1.010/1.030	78-88 @ 1.687	172-184 @ 1.3125	6.250 LH	CHC, CHI
32-677-D	2.300	1.250	0.188	1.438	1.052/1.072	94-104 @ 1.820	179.5-198.5 @ 1.42	6.500 LH	FDI, FOR
32-685-D	2.050	1.125	0.170	1.220	0.880	76-89 @ 1.696	183.5-203 @ 1.306	6.900 RH	CHC, GMM, GM
32-696	2.160	1.375	0.182	1.334/1.354	0.970/0.990	62-68 @ 1.858	158-168 @ 1.528	7.50 LH	GM
32-715	2.000	1.150	0.162	1.318/1.338	0.994/1.014	48-56 @ 1.585	112-122 @ 1.220	7.250 LH	FOR
32-735	2.270	1.370	0.192	1.354/1.374	0.970/0.990	76-84 @ 1.700	196-212 @ 1.495	7.50 RH	GM
32-745-D	2.125	1.309	0.187	1.453	1.079	77-85 @ 1.580	190-208 @ 1.420	7.000 LH	FOR
32-778	1.828	1.062	0.177	1.355/1.365	1.001/1.011	59-65 @ 1.586	148.5-158.5 @ 1.222	6.000 LH	FDI, FOR
32-786-D	2.047	1.260	0.207	1.438	1.024	89 @ 1.77	225-241 @ 1.38	6.000 LH	FOR
32-798	2.000	1.140	0.188	1.438	1.052/1.072	76-84 @ 1.670	175-194 @ 1.240	6.000 LH	FDI, FOR
32-804	2.030	1.247	0.172	1.216/1.232	0.872/0.888	84-96 @ 1.880	158-170 @ 1.340	7.250 RH	CHC, GM
32-807	1.990	1.152	0.192	1.400	1.016	76-84 @ 1.700	187-207 @ 1.300	6.000 LH	CHC, FOR, FDI
32-812	1.875	1.120	0.188	1.395/1.405	1.019/1.029	77-85 @ 1.580	183-202 @ 1.180	6.000 LH	FDI, FOR
32-813	1.760	0.950	0.141	1.050/1.065	0.768/0.783	28-34 @ 1.566	99-105 @ 1.114	6.750 LH	GM, NII
32-814	1.940	0.990	0.170	1.390/1.405	1.050/1.065	59-65 @ 1.586	135.145 @ 1.134	5.800 LH	GM
32-815-D	2.093	1.350	0.225	1.532/1.548	1.082/1.098	94-106 @ 1.880	303-327 @ 1.380	6.000 LH	GM
32-816-D	2.180	1.340	0.207	1.504	1.090	90 @ 1.880	220 @ 1.460	6.500 LH	GDI, GM
32-863	2.260	1.356	0.187	1.322/1.342	0.948/0.968	95-105 @ 1.812	188.202 @ 1.437	7.250 RH	CHC, IHC
32-864-D	2.050	1.340	0.207	1.504	1.090	90 @ 1.800	220 @ 1.400	6.500 LH	GDI, GM, GMM
32-867	1.860	1.105	0.170	1.225	0.885	57-63 @ 1.640	158.174 @ 1.250	6.500 LH	FOR
32-869	2.580	1.350	0.185	1.380/1.400	1.010/1.030	121-129 @ 1.860	192-208 @ 1.430	7.52 RH	CHC, CHI
32-880-D	2.030	1.150	0.177	1.222	0.878	80 @ 1.700	200 @ 1.250	6.600 RH	FDI, FOR, GDI, GMM, GM
32-881-D	2.200	1.220	0.182	1.295/1.309	0.931/0.945	67-77 @ 1.890	170-184 @ 1.450	6.750 LH	GM
32-883	2.230	1.300	0.187	1.374	1.000	85-93 @ 1.812	193-207 @ 1.387	6.400 RH	CHC
32-884-D	1.960	1.110	0.192	1.425/1.449	1.041/1.065	76-84 @ 1.670	180-194 @ 1.270	5.850 RH	GM
32-886	1.900	1.170	0.177	1.226/1.242	0.872/0.888	56-64 @ 1.660	180-192 @ 1.270	6.700 RH	GMM, GM
32-887-D	2.050	1.260	0.200	1.390	0.990/1.010	72-80 @ 1.800	191-203 @ 1.400	6.500 RH	FDI, FOR, IHC, IHN
32-891-D	2.230	1.294	0.207	1.484/1.504	1.070/1.090	100-110 @ 1.8594	236-256 @ 1.3594	6.250 RH	CHC
32-901-D	1.940	1.100	0.207	1.494	1.080	91-101 @ 1.65	231-245 @ 1.220	5.625 RH	CHC
32-902	1.970	1.170	0.184	1.368/1.388	1.000/1.020	71-79 @ 1.660	171-189 @ 1.230	6.250 RH	FOR, FOM
32-906	2.020	1.183	0.182	1.364/1.384	1.000/1.020	56-66 @ 1.730	173-193 @ 1.280	6.500 LH	FOR
32-907-D	2.060	1.260	0.218	1.503	1.067	85 @ 1.820	270 @ 1.320	6.000 LH	FDI, FOR
32-909-D	2.120	1.320	0.200	1.452/1.472	1.052/1.072	85-95 @ 1.82	209-231 @ 1.380	6.625 LH	FDI, FOR

# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-922	1.995	1.174	0.135	1.050/1.065	0.780/0.795	37-43 @ 1.666	90-100 @ 1.214	8.670 LH	GM
32-923	1.980	1.224	0.187	1.424/1.439	1.050/1.065	70-80 @ 1.716	192-208 @ 1.264	6.660 LH	GM
32-925	1.880	1.000	0.185	1.380	1.010/1.030	80-90 @ 1.547	178-192 @ 1.157	5.750 RH	CHC
32-931	2.020	1.220	0.195	1.450	1.060/1.080	73.4-80.6 @ 1.70	171-189 @ 1.280	6.250 LH	FDI, FOR
32-935-D	2.073	1.270	0.200	1.460/1.480	1.060/1.080	79-89 @ 1.790	204-225 @ 1.340	6.375 LH	FOR
32-936	1.943	1.230	0.200	1.400/1.420	1.000/1.020	76-84 @ 1.690	190-210 @ 1.310	6.187 LH	FOM, FOR
32-942	2.130	1.150	0.185	1.380	1.010/1.030	80-90 @ 1.740	168-182 @ 1.330	6.500 RH	CHC, CHI
32-943-D	2.040	1.248	0.192	1.266	0.884	110 @ 1.700	285 @ 1.210	6.500 RH	GDI, GM, GMM
32-961-D	2.026	1.270	0.225	1.502/1.522	1.052/1.072	87.4-96.6 @ 1.82	299.3-330.7 @ 1.390	6.000 LH	FOR
32-991	2.068	1.275	0.200	1.390/1.410	0.990/1.010	76-84 @ 1.810	218-240 @ 1.330	6.375 LH	CHC, FOR, FDI, FOM
32-994	2.056	1.330	0.200	1.400/1.420	1.000/1.020	76-84 @ 1.820	214.7-237.3 @ 1.390	6.687 LH	FOR
32-999	2.200	1.300	0.192	1.394	1.000/1.020	80-88 @ 1.812	210-226 @ 1.365	6.900 RH	CHC, IHN
32-1001	2.130	1.260	0.177	1.285/1.299	0.931/0.945	65-75 @ 1.727	168-182 @ 1.340	7.125 LH	GM
32-1002-D	1.985	1.260	0.177	1.285/1.299	0.931/0.945	65-75 @ 1.727	168-182 @ 1.340	7.125 LH	GM
32-1003-D	2.200	1.220	0.182	1.295/1.310	0.931/0.946	67-77 @ 1.890	170-184 @ 1.450	6.750 LH	GM
32-1009	2.130	1.280	0.207	1.500	0.803	90 @ 1.880	280 @ 1.380	6.500 RH	GDI, GM, GMM
32-1011	2.060	1.255	0.192	1.394	1.000/1.020	71-79 @ 1.790	190-210 @ 1.340	6.940 LH	FOM, FOR
32-1015	1.480	0.860	0.154	1.110/1.124	0.802/0.816	48-53 @ 1.263	118-128 @ .953	5.750 RH	FOR
32-1016	1.960	1.110	0.192	1.437	1.053	76-84 @ 1.670	180-194 @ 1.270	5.850 RH	GM
32-1016-D	1.960	1.110	0.192	1.425/1.449	1.041/1.065	76-84 @ 1.670	180-194 @ 1.270	5.850 RH	GM
32-1034	2.220	1.280	0.177	1.197/1.211	0.843/0.857	67-77 @ 1.890	170-184 @ 1.450	7.400 LH	GM
32-1038-D	1.910	1.130	0.177	1.222/1.238	0.868/0.884	76-84 @ 1.610	194-206 @ 1.160	6.600 RH	GDI, GM, GMM
32-1040	1.910	1.100	0.194	1.388/1.408	1.000/1.020	80-88 @ 1.630	210-226 @ 1.183	6.000 RH	CHC, IHC
32-1041-D	2.093	1.278	0.225	1.540	1.090	80 @ 1.88	300 @ 1.380	5.680 LH	GDI, GM, GMM
32-1044	1.730	0.950	0.170	1.272/1.288	0.932/0.948	64-73 @ 1.418	158-174 @ 1.020	5.900 RH	FOR
32-1047	1.770	0.850	0.113	0.980	0.754	25.5-28.5 @ 1.380	53-59 @ 0.960	7.50 LH	NIS
32-1048	1.831	1.100	0.162	1.210	0.886	50-56 @ 1.524	122-136 @ 1.190	7.000 RH	FTA, NII, NIS
32-1049	1.740	0.800	0.105	0.890/0.910	0.680/0.700	14-17 @ 1.480	33-39 @ 1.105	7.50 LH	TOY
32-1053	1.658	1.025	0.180	1.250/1.270	0.890/0.910	54.8-62 @ 1.484	167-183 @ 1.134	5.625 RH	TOY
32-1061	1.810	1.002	0.185	1.380/1.400	1.010/1.030	80-90 @ 1.480	180-194 @ 1.080	5.750 RH	CHC
32-1066	1.968	1.106	0.156	1.315	0.988/1.018	50-60 @ 1.580	95-115 @ 1.200	7.000 RH	NIS
32-1070	2.000	1.249	0.185	1.010/1.020	0.640/0.650	78-88 @ 1.690	170-184 @ 1.312	6.750 RH	CHC
32-1082	2.035	1.225	0.200	1.355/1.385	0.955/0.985	65-75 @ 1.800	190-225 @ 1.400	6.500 RH	CHC, IHC
32-1086	1.923	1.115	0.192	1.360/1.400	0.976/1.016	51-59 @ 1.700	153-177 @ 1.300	6.100 LH	FOM, FOR
32-1088-D	2.440	1.300	0.192	1.475	1.100	175-205 @ 1.400	80-100 @ 1.900	7.000 LH	CHC
32-1096	2.000	1.265	0.175	1.225	0.860/0.890	40-50 @ 1.800	120-140 @ 1.400	7.250 RH	TOI, TOY
32-1106	1.641	0.781	0.142	1.181/1.197	0.897/0.913	21-25 @ 1.450	73-89 @ 1.050	5.500 RH	CHC, VOK
32-1107	1.323	0.598	0.098	0.820	0.616/0.632	11-14 @ 1.25	26-32 @ 1.050	6.100 RH	CHC, VOK
32-1123	1.800	1.056	0.162	1.270/1.295	0.946/0.971	40-48 @ 1.550	110-130 @ 1.150	6.000 RH	CHC, MDI, MIT
32-1125	1.875	1.160	0.177	1.305/1.325	0.951/0.971	51-63 @ 1.600	140-170 @ 1.200	6.500 RH	CHC, MIT
32-1126	1.950	1.062	0.177	1.354/1.374	1.000/1.020	43-53 @ 1.700	150-180 @ 1.200	6.000 LH	FOR
32-1130	1.850	1.031	0.162	1.314/1.334	0.990/1.010	31-41 @ 1.600	126-154 @ 1.100	6.250 LH	GM, ISU
32-1131	1.780	0.948	0.120	0.962/0.982	0.722/0.742	18-22 @ 1.500	63-77 @ 1.073	7.900 RH	GM, ISU
32-1135	1.800	1.091	0.185	1.310/1.330	0.940/0.960	45-55 @ 1.600	155-185 @ 1.200	5.900 RH	TOY
32-1149	1.965	1.220	0.200	1.395/1.425	0.995/1.025	40-50 @ 1.800	190-220 @ 1.300	6.100 LH	FOR
32-1166	2.100	1.250	0.200	1.450	1.050/1.070	70-80 @ 1.800	195-220 @ 1.400	6.250 LH	FOR
32-1167	1.970	1.100	0.200	1.452/1.475	1.052/1.072	76-84 @ 1.720	218.5-241.5 @ 1.260	6.000 LH	FOR
32-1174-D	1.890	1.056	0.192	1.474	1.090/1.110	60-70 @ 1.600	160-185 @ 1.200	5.500 LH	CHC
32-1175	2.040	1.290	0.192	1.384/1.404	1.000/1.020	74-82 @ 1.780	194.2-214.2 @ 1.360	6.750 LH	FOM, FOR
32-1190-D	1.950	1.106	0.177	1.224/1.240	0.870/0.886	76-84 @ 1.610	196-204 @ 1.160	6.600 RH	CHC, GM, ISU
32-1193	1.890	1.090	0.177	1.344/1.364	0.990/1.010	71-79 @ 1.560	159-175 @ 1.160	6.420 RH	FOR
32-1195-D	2.010	1.110	0.192	1.424/1.454	1.040/1.070	85.1-95 @ 1.670	203.3-217.2 @ 1.220	5.780 RH	GM
32-1196	2.325	1.194	0.177	1.365/1.385	1.011/1.031	61-73 @ 1.90	155-185 @ 1.300	6.750 LH	CHC
32-1197	1.799	1.066	0.158	1.165/1.185	0.849/0.869	43.53 @ 1.500	112-134 @ 1.150	6.750 RH	CHC, MIT
32-1201	1.900	1.075	0.187	1.375/1.395	1.001/1.021	35-43 @ 1.750	175-205 @ 1.200	5.750 RH	FOR
32-1202	1.760	1.092	0.162	1.185/1.205	0.861/0.881	50-60 @ 1.500	115-135 @ 1.200	5.900 RH	TOY
32-1213	1.335	0.754	0.092	0.700	0.509/0.523	22-25 @ 1.000	34-40 @ 0.850	8.250 LH	HON
32-1220-D	2.035	1.278	0.192	1.250	0.866/0.886	76-84 @ 1.811	220-240 @ 1.390	6.600 RH	GDI, GM

# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-1227-D	2.020	1.197	0.201	1.480/1.500	1.078/1.098	67-78 @ 1.700	180-199 @ 1.280	6.000 LH	FOR
32-1242	1.820	1.150	0.192	1.332/1.352	0.948/0.968	66-74 @ 1.625	205-220 @ 1.200	6.220 RH	CHC, FOR
32-1244	1.970	1.160	0.180	1.393	1.019	25-30 @ 1.850	141-172 @ 1.280	6.250 LH	FOR
32-1245	1.785	1.005	0.180	1.379	1.019	27.8-33.9 @ 1.667	157-192 @ 1.119	5.500 LH	FOR
32-1246	2.160	1.165	0.187	1.384/1.404	1.010/1.030	108-120 @ 1.455	200-216 @ 1.220	6.500 RH	CHC
32-1247	1.855	1.080	0.177	1.295	0.941	97-113 @ 1.455	149-165 @ 1.255	6.000 RH	FOR
32-1248	1.994	1.064	0.177	1.316T	0.962T	89 @ 1.640	200 @ 1.212	6.790 LH	CHC
32-1250	2.028	1.250	0.200	1.420	1.010	76-84 @ 1.780	215-235 @ 1.330	6.500 LH	FOR
32-1258	1.840	1.050	0.182	1.287/1.307	0.923/0.943	61-69 @ 1.577	172-188 @ 1.156	5.900 LH	FOR, MAZ
32-1262-D	1.850	1.020	0.177	1.304/1.324	0.950/0.970	71-79 @ 1.500	173.7-188.3 @ 1.088	5.900 LH	FOR, MAZ
32-1265	1.940	1.156	0.178	1.350T	0.930T	74 @ 1.700	230 @ 1.260	6.500 RH	CHC
32-1266-D	1.970	1.150	0.192	1.424/1.444	1.040/1.060	80-90 @ 1.650	212-228 @ 1.180	6.130 LH	FOR
32-1268	2.110	1.240	0.180	1.290	0.930	86-94 @ 1.701	209-221 @ 1.291	6.890 RH	GMM, GM, ISU
32-1278	1.967	1.163	0.177	1.312	0.837/0.958	81-89 @ 1.640	192-208 @ 1.216	6.790 RH	CHC
32-1280	1.950	1.030	0.187	1.424	1.050	77-84 @ 1.480	193-207 @ 1.070	5.800 LH	CHC
32-1282	1.909	1.098	0.187	1.044/1.394	0.670/1.020	90-100 @ 1.570	207-229 @ 1.170	6.180 LH	CHC
32-1289	1.960	1.150	0.163	1.330/1.360	1.004/1.034	66-74 @ 1.600	168-188 @ 1.200	6.800 RH	CHC, HYU, MAZ, MDI, MIT
32-1290	2.170	1.161	0.173	1.349	1.004	85.9-93.9 @ 1.585	167.3-178.9 @ 1.222	6.800 RH	FOR
32-1299	1.902	0.976	0.173	1.269/1.289	0.923/0.943	89-98.2 @ 1.460	207-224.6 @ 1.016	6.000 RH	FOR
32-1301-D	2.093	1.161	0.166	1.231	0.899	79.5 @ 1.679	178 @ 1.239	7.000 RH	GM
32-1302-D	2.221	1.250	0.167	1.184	0.850	77 @ 1.727	165 @ 1.340	7.50 RH	GM
32-1303	1.981	1.250	0.177	1.249	0.895	80 @ 1.720	210 @ 1.315	7.000 LH	GM
32-1304	2.059	1.146	0.177	1.232	0.878	105 @ 1.610	214 @ 1.216	6.800 RH	GM
32-1310	1.900	1.100	0.177	1.334	0.980	82 @ 1.503	159 @ 1.200	6.400 RH	GM, ISU
32-1313	1.846	1.180	0.186	1.309	0.930	55 @ 1.650	170 @ 1.250	6.500 RH	TOI, TOY
32-1330-D	2.050	1.280	0.207	1.490	1.076	80 @ 1.800	215 @ 1.370	6.250 LH	GM
32-1360	1.967	1.200	0.185	1.380	1.010	70 @ 1.700	175 @ 1.300	6.500 RH	FOR
32-1368	1.720	1.060	0.125	0.960	0.710	37 @ 1.350	62 @ 1.100	8.000 RH	KIA, MAI, MAZ
32-1370	1.958	1.048	0.156	1.317	1.005	62 @ 1.450	101 @ 1.200	7.200 LH	KIA, MAI, MAZ
32-1374	1.780	0.960	0.166	1.232	0.900	75 @ 1.440	165 @ 1.040	6.000 RH	GM
32-1377	1.982	1.215	0.166	1.160	0.828	42 @ 1.750	121 @ 1.400	7.60 RH	GM, SUZ
32-1378	2.300	1.200	0.192	1.444	1.060	211 @ 1.300	85 @ 1.900	6.500 RH	FDI, FOR
32-1380	1.780	0.955	0.170	1.230	0.780	140 @ 1.150	80 @ 1.400	6.000 RH	GM
32-1386	1.820	1.000	0.156	1.152	0.840	65 @ 1.500	160 @ 1.100	6.300 RH	GM
32-1391-D	1.941	1.169	0.180	1.229	0.869	75 @ 1.678	220 @ 1.239	6.500 RH	GM
32-1392	1.903	1.003	0.125	1.115	0.865	67 @ 1.100	26 @ 1.450	7.800 RH	HON
32-1396	1.711	1.015	0.085	0.782	0.612	18 @ 1.100	8.0 @ 1.400	9.200 LH	HON
32-1398	1.943	1.299	0.148	0.936	0.640	134 @ 1.350	44 @ 1.700	9.100 LH	HON
32-1400	1.725	0.897	0.113	0.958	0.732	15 @ 1.500	57 @ 1.000	7.700 LH	NIS
32-1405	1.923	1.176	0.178	1.305	0.949	65 @ 1.600	161 @ 1.200	6.600 RH	TOY
32-1420	2.114	1.200	0.200	1.410	1.010	129 @ 1.650	225 @ 1.350	6.300 LH	FDI, FOR
32-1430	1.831	1.180	0.156	1.050	0.737	46 @ 4.600	132 @ 1.300	7.800 RH	KIA, MAZ
32-1447	2.153	1.194	0.125	0.863	0.613	102 @ 1.450	44 @ 1.800	9.900 LH	HON
32-1448	2.300	1.364	0.128	0.861	0.605	93 @ 1.600	44 @ 1.950	10.700 L	HON
32-1449	2.279	1.185	0.113	0.822	0.596	81 @ 1.350	33 @ 1.800	10.50 LH	HON
32-1452	2.100	1.287	0.142	1.036	0.752	128 @ 1.3500	55 @ 1.700	8.900 RH	HON
32-1453	2.187	1.322	0.138	1.025	0.749	95 @ 1.450	45 @ 1.750	9.50 RH	HON
32-1457	1.958	1.251	0.166	1.156	0.824	37 @ 1.750	131 @ 1.350	6.500 RH	SUB
32-1530	2.126	1.200	0.177	1.362	1.006	82 @ 1.650	156 @ 1.350	6.800 RH	NIS
32-1537	2.106	1.115	0.112	0.847	0.623	40 @ 1.550	69 @ 1.250	10.10 RH	NIS
32-1550	1.658	0.972	0.135	0.994	0.724	21 @ 1.518	80 @ 1.108	7.200 RH	TOY
32-1558	1.700	0.990	0.177	1.124/1.248	0.770/0.894	71-79 @ 1.437	193-207 @ 1.027	5.800 RH	GM
32-1615	1.976	1.043	0.135	1.040T	0.770T	65 @ 1.570	149 @ 1.103	8.00 RH	FOR
32-1680	2.059	1.200	0.177	1.240	0.876	85 @ 1.700	205 @ 1.270	6.700 RH	GDI, GM
32-1684	2.130	1.148	0.170	1.352	1.005	60 @ 1.730	130 @ 1.330	6.750 RH	FOR
32-1943-D	2.140	1.160	0.192	1.260	0.876	110 @ 1.800	325 @ 1.200	6.000 RH	GDI, GM
32-02061	2.385	1.400	0.187	1.320	0.948	78 @ 2.000	174 @ 1.650	7.60 RH	CAS, CHC, CUM



# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-2210	2.016	1.280	0.199	1.300	0.902	85 @ 1.780	255 @ 1.330	6.550	GM
32-2212	1.958	1.200	0.187	1.250T	0.876T	50 @ 1.800	214 @ 1.318	6.500 RH	GM, ISU
32-2215	1.796	1.090	0.151	1.041	0.739	60 @ 1.496	154 @ 1.142	7.35 LH	CHC
32-2221	1.825	1.180	0.164	1.075T	0.745T	84 @ 1.496	165 @ 1.239	7.210 LH	CHC
32-2222	1.720	1.085	0.170	1.090T	0.750T	75 @ 1.496	196 @ 1.160	6.800 RH	CHC
32-2223	1.854	1.179	0.155	1.058	0.748	75 @ 1.496	137 @ 1.239	7.66 LH	CHC
32-2225	1.890	1.156	0.185	1.338T	0.968	75 @ 1.640	210 @ 1.216	6.600 RH	CHC
32-2230	1.905	1.112	0.152	1.044	0.740	75 @ 1.496	136 @ 1.171	7.60 RH	CHC
32-2234	2.065	1.160	0.155	1.205T	0.828T	95 @ 1.650	218 @ 1.217	7.400 RH	CHC
32-2300	1.736	0.968	0.138	1.072T	0.742T	65 @ 1.423	160 @ 1.029	7.200 LH	FOR
32-2302	1.694	0.905	0.150 X	1.210	0.824	63 @ 1.437	191 @ 0.957	6.300 RH	FOR
32-2400	2.001	1.608	0.138	0.913	0.638	44 @ 1.709	119 @ 1.315	9.260 RH	HON
32-2406	2.011	1.244	0.138	0.913	0.638	44 @ 1.709	116 @ 1.315	9.310 RH	HON
32-2412	2.188	1.267	0.126	0.890	0.638	44 @ 1.709	89 @ 1.354	10.48 RH	HON
32-2450	1.645	0.980	0.134	0.977	0.709	40 @ 1.366	93 @ 1.030	7.36 RH	TOY
32-2451	1.709	0.917	0.114	0.858	0.630	37.5 @ 1.323	79.4 @ 0.949	8.300 RH	TOY
32-2460	1.900	1.105	0.177	1.216T	0.860T	81 @ 1.610	181 @ 1.280	6.500 RH	GM
32-2461	1.670	0.940	0.162	1.193T	0.870T	82 @ 1.340	182 @ 0.984	6.200 RH	GM
32-2462	1.623	0.900	0.162	1.178T	0.854T	64 @ 1.400	150 @ 1.100	5.800 RH	GM
32-2463	1.610	0.750	0.150	0.996	0.712			7.50 RH	GM
32-2475	1.975	1.110	0.160	1.344T	0.925T	85 @ 1.602	206 @ 1.151	7.300 RH	FOR
32-2476	1.830	1.191	0.148	0.942	0.646	80 @ 1.468	152 @ 1.226	8.000 RH	FOR
32-2480	2.287	1.236	0.162 X	1.166T	0.872T	101 @ 1.810	243 @ 1.322	8.100 RH	CHC
32-2482	1.950	1.050	0.145 X	1.160T	0.800T	75 @ 1.580	185 @ 1.137	7.200 RH	CHC
32-2484	1.557	0.725	0.128	1.001	0.745	34 @ 1.317	109 @ 0.838	5.700 RH	GM
32-2486	2.025	1.150	0.167	1.30T	0.961T	54 @ 1.700	158 @ 1.250	7.000 RH	FOR
32-2487	2.101	1.073	0.138	1.069T	0.738T	68 @ 1.676	170 @ 1.134	8.000 RH	FOR
32-2488	1.673	0.730	0.152	1.106	0.802	44.9 @ 1.427	151.3 @ 0.934	5.100 RH	GM
32-2490	1.700	1.000	0.162	1.185T	0.865T	68 @ 1.400	138 @ 1.150	6.250 RH	GM
32-2494	1.649	0.762	0.132	1.044	0.727	49.9 @ 1.376	136 @ 1.000	6.000 RH	GM
32-2500	2.080	1.250	0.183	1.213T	0.849T	76 @ 1.800	220 @ 1.320	7.150 RH	GM
32-2522	2.212	1.180	0.187	1.397T	1.017T	90 @ 1.808	226 @ 1.338	6.500 RH	GDI, GM, GMM
32-04002	1.800	0.980	0.150	1.224T	0.924T	30 @ 1.600	75 @ 1.300	6.850 RH	GM
32-04005	1.855	1.000	0.128	0.962	0.706	45 @ 1.500	84 @ 1.200	7.50 RH	NIS
32-04006	1.800	1.000	0.142	1.060	0.776	48 @ 1.500	104 @ 1.150	6.700 RH	NIS
32-04007	1.645	0.900	0.120	0.946	0.703	24 @ 1.400	61 @ 1.100	7.250 RH	NIS
32-04013	2.050	1.270	0.207	1.424T	1.010T	75 @ 1.840	250 @ 1.348	6.300 RH	GDI, GM
32-04017	1.834	1.000	0.182	1.293T	0.935T	68 @ 1.600	205 @ 1.170	6.000 LH	FOR
32-04018	1.910	1.000	0.162 X	1.250T	0.860T	77 @ 1.600	208 @ 1.175	6.700 RH	GM, ISU
32-04019	1.860	1.200	0.162	1.060	0.736	64 @ 1.600	141 @ 1.350	7.50 LH	CHC
32-04025	1.695	0.905	0.167	1.171	0.837	44 @ 1.546	193 @ 1.042	6.100 RH	FOR
32-04026	2.020	1.150	0.142	0.994	0.714	36 @ 1.750	103 @ 1.300	8.250 LH	GM
32-04029	2.169	1.125	0.131	0.919/1.033	0.591/0.706	79@1.655	171@1.222	8.800 RH	FOR
32-04030	1.970	1.050	0.148	1.162	0.866	40 @ 1.700	92 @ 1.350	7.50 RH	ISU, HON
32-04033	1.840	1.100	0.148	1.027	0.731	41 @ 1.600	105 @ 1.250	7.50 LH	MIT
32-04034	2.185	1.300	0.125	0.900	0.650	35 @ 1.800	81 @ 1.400	10.20 RH	HON
32-04035	1.615	0.930	0.120	0.818	0.577	28 @ 1.475	108 @ 1.005	7.800 RH	VOK
32-04036	1.725	0.835	0.135 X	1.163	0.837	28 @ 1.542	119 @ 0.991	6.400 RH	VOK
32-04048	1.720	1.000	0.142	1.065	0.775	33 @ 1.500	88 @ 1.200	7.000 RH	NIS
32-04040	2.076	1.377	0.169	0.995	0.657	64 @ 1.880	207 @ 1.440	8.150 RH	FDI, FOR, IHN
32-04041	2.216	1.168	0.156	1.263	0.865	34 @ 1.941	134 @ 1.291	7.50 RH	GDI, GM
32-04042	2.180	1.130	0.178	1.365T	1.015T	75 @ 1.808	205 @ 1.338	6.500 RH	GDI, GM
32-04046	2.126	1.221	0.170 x	1.257T	0.845T	94@1.800	260@1.320	7.50 RH	GM
32-04049	2.194	1.280	0.187	1.342	0.968	38@2.010	184@1.440	7.000 RH	CUM
32-04051	1.770	0.890	0.126 x	1.042	0.726	27@1.589	120@1.044	7.200 RH	GM, ISU
32-04053	1.890	0.925	0.130 X	1.084	0.744	76@1.390	150@1.060	7.250 RH	CHC,CUM
32-04055	1.610	0.859	0.132 x	1.063	0.747	58@1.245	130@0.905	6.850 RH	GM
32-04059	1.776	1.061	0.135	0.990T	0.720T	39 @ 1.492	92 @ 1.205	8.10 RH	FOR, MAZ

# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-04060	1.678	0.820	0.123	1.026	0.720	59@1.280	124@0.886	7.00RH	GM
32-04062	1.908	1.085	0.128	0.970T	0.714T	23 @1.675	93 @1.115	8.65 RH	FOR
32-5001	1.729	0.865	0.126	1.030T	0.714T	39 @1.500	153 @0.900	7.10 RH	GM
32-5003	1.941	0.965	0.114	0.907	0.679	24 @1.600	82 @1.000	8.40 RH	CHC
32-5006	1.694	0.915	0.125	0.947	0.697	20 @1.500	86 @0.950	7.35 RH	NIS, SUZ
32-5007	1.754	0.870	0.118	0.934	0.698	22 @1.500	91 @0.925	7.30 RH	NIS, SUZ
32-5008	1.760	0.905	0.126	1.033T	0.717T	42 @ 1.500	136 @ 0.97	7.45 RH	GM
32-5010	2.520			1.425	0.905	80@2.15	204@1.60	8.0 RH	GDI, GM
32-5011	2.075	1.045	0.123 x	0.999T	0.693T	62 @1.58	151 @1.08	8.75 RH	FOC
32-5015	1.979	0.905	0.123x0	1.020T	0.714T	89@ 1.338	146@ 0.964	7.55 RH	FDI, FOR
32-5016	2.540	1.570	0.170x0	1.213T	0.789T	101@2.154	303@1.637	9.5 RH	FOR 6.2L
32-5017	2.125	1.230	0.170x0	1.270T	0.845T	63@1.900	288@1.275	7.60RH	GM
32-5018	1.674	0.945	0.125	0.912T	0.662T	39@1.380	109@0.980	7.70RH	GM 1.8L
32-5019	2.176	1.050	0.133x0	0.923T	0.670T	47@1.600	108@1.100	9.50RH	FOR
32-5021	1.715	0.915	0.128	0.912T	0.659T	38@1.450	126@0.950	7.45 RH	BMW
32-5022	2.050	1.270	0.156	1.017	0.703	35@1.850	192@1.325	8.25 RH	BMW
32-5023	1.915		0.150x0	1.127T	0.749T	80@1.580	185@1.137	7.00RH	CHC
32-5024	2.370	1.429	0.178x0	1.299T	0.854T	117@1.988	332@1.466	8.35RH	CHC



.060" Thick  
Copper-  
Colored



.030" Thick  
Silver-  
Colored



Outside Cup  
Helps Control  
Spring Walk

## VALVE SPRING INSERT NUMERICAL / APPLICATION LISTING

QC #	Thickness In Thous-andths	H.P.	O.D.	I.D.	Application
33-30615-5	0		1.437	0.645	
33-3043	30		1.500	1.156	Case, Cat., Perkins
33-3033	30	*	1.480	0.703	Buick, Cadillac, Chev., Chev. Truck, IHC, Mack, Olds., Pontiac
33-1073	30	*	1.250	0.625	Audi, Chev., Chrysler, Datsun, Honda/Motorcycle, Kawasaki, Jaguar, Mazda, Perkins, Toyota, Triumph, Yamaha
33-2033-1	30		1.140	0.812	Ford Escort 1.6L 1978
33-4003-1	30		1.650	1.180	GMC Electomotive Diesel
33-4003	30		1.750	0.820	Cummins, Dodge Truck, IHC, Oliver
33-2003	30		1.360	0.640	Austin, BMW, Chev., Chev. Truck, IHC Truck, Isuzu, Jeep, MG, Opel
33-3063	30	*	1.437	0.645	Cat., Chev., Ford, Olds. Special Small Block
33-4043	30		1.500	0.875	Cat., Chev. Truck, Cummins, GMC, IHC, Wauk.
33-2013	30	*	1.250	0.875	AMC, Buick, Cadillac, Chev., Cummins, Ford Ger., Herc., Jeep, Olds, Pontiac
33-4033	30		1.375	0.781	Chev. Truck, Dodge Truck, Ford, GMC, IHC, John Deere, Oliver, Perkins, White
33-2023	30		0.915	0.640	Allis-C., Buick, Chev. Truck, Chrysler, Cont., Detroit, Ford Bronco, GMC, Herc., I.H.C., Jeep, John Deere, Kawasaki, Renault, Onan, Porsche
33-3023	30		1.312	0.765	Allis-C., AMC, Austin-Healey, Case, Cat., Chev., Cont., Ford Bronco, Holden, IHC, Mack, MG, Oliver, Porsche, Toyota
33-3013	30	*	1.375	0.765	Ford Bronco, Ford Tractor, GMC, Harley-Davidson, Pontiac, Triumph
33-2033	30	*	1.250	0.812	Allis-C., Buick, Cadillac, Chev., GMC, Herc., IHC, Jeep, John Deere, Mack, Mazda, Olds, Pontiac, White
33-3003	30		1.125	0.719	AMC, Cat., Chrysler., Cont., Cummins, Dodge Truck, Ford Bronco, Hillman, Honda, Jeep, John Deere, Mack, Mercedes, Peugeot, Toyota, White
33-2043	30		0.796	0.515	Detroit / GMC 53 Ser. 4V, Wauk.
33-3053	30	*	1.437	0.785	Datsun, Mack, Nissan, Perkins, Pontiac
33-1033	30	*	1.500	1.031	AMC, Chev., Chev. Truck, Chrysler, Datsun, Dodge Truck, Ford, Ford Truck, Lincoln, Minn., Pontiac, White
33-1003	30		1.312	0.954	Buick, Chev. Truck, Datsun, Minn-Mo., Nissan, Pontiac, Porsche, Toyota, Waukesha
33-1013	30		1.000	.688	AMC, Case, Cont., Cummins, Fiat, Ford, Onan, Porsche, Triumph, Toyota, Volvo, Waukesha
33-8023-5	30	^	0.920	0.520	Detroit 92 Ser.
33-1023	30	0	1.360	1.000	AMC, Cat., Chrysler, Colt, Datsun, Ford, Ford Tractor, Ford Truck, IHC, John Deere
33-6033-5	30	^	1.500	0.562	Ford 351 SVO
33-4013	30		1.600	0.820	Allis-C., Mack, Reo, White
33-6013-5	30	^	1.640	0.635	Chev., Chrysler, Ford w/ Remachined Guide
33-1043	30		1.000	0.765	Cont., Ford, Honda Motorcycle, Oliver, Renault, Wauk.
33-1053	30	*	1.218	0.875	Buda, Case, Cat., Datsun, Detroit, Fiat, Ford, Harley-Davidson, Kawasaki, Pontiac, Porsche, VW, Wisconsin
33-4083	30		1.140	0.570	Austin, Detroit/GMC 71 Ser. 2V
33-4073	30		1.156	0.828	Allis-C., Buda, Cat., Cummins, Wauk., White
33-1063	30		1.100	0.719	Austin-Healy, Alfa Romeo, Case, Chev., Citroen, Fiat, I.H.C., Mercedes, M.G., Morris, Opel, Triumph, VW, Wauk., Wisconsin
33-1046	60		1.000	0.765	Cont., Ford, Honda Motorcycle, Oliver, Renault, Wauk.
33-2006	60	*	1.360	0.640	Austin, BMW, Chev., Chev. Truck, IHC Truck, Isuzu, Jeep, MG, Opel
33-1066	60		1.100	0.719	Austin-Healy, Alfa Romeo, Case, Chev., Citroen, Fiat, I.H.C., Mercedes, M.G., Morris, Opel, Triumph, VW, Wauk., Wisconsin
33-1026	60	*	1.360	1.000	AMC, Cat., Chrysler, Colt, Datsun, Ford, Ford Tractor, Ford Truck, IHC, John Deere
33-2016	60	*	1.250	0.875	AMC, Buick, Cadillac, Chev., Cummins, Ford Ger., Herc., Jeep, Olds, Pontiac
33-1086-5	60	^	0.970	0.445	Cat., Harley-Davidson XR Ser., Norton, Subaru
33-1076	60		1.250	0.625	Audi, Chev., Chrysler, Datsun, Honda/Motorcycle, Kawasaki, Jaguar, Mazda, Perkins, Toyota, Triumph, Yamaha

\* Also Available in High-Performance w/ -5 Suffix  
-1 Suffix Denotes Special Application

^ Only Available in High-Performance  
For Cup and I.S. Cup O.D. and I.D. Are For Spring Pad

# VALVE SPRING INSERT NUMERICAL / APPLICATION LISTING

QC #	Thickness In		O.D	I.D.	Application
	Thous-andths	H.P.			
33-2026	60		0.915	0.640	Allis-C., Buick, Chev. Truck, Chrysler, Cont., Detroit, Ford Bronco, GMC, Herc., I.H.C., Jeep, John Deere, Kawasaki, Renault, Onan, Porsche
33-1056	60		1.218	0.875	Buda, Case, Cat., Datsun, Detroit, Fiat, Ford, Harley-Davidson, Kawasaki, Pontiac, Porsche, VW, Wisconsin
33-1016	60		1.000	0.688	AMC, Case, Cont., Cummins, Fiat, Ford, Onan, Porsche, Triumph, Toyota, Volvo, Waukesha
33-1036	60	*	1.500	1.031	AMC, Chev., Chev. Truck, Chrysler, Datsun, Dodge Truck, Ford, Ford Truck, Lincoln, Minn., Pontiac, White
33-4046	60		1.500	0.875	Cat., Chev. Truck, Cummins, GMC, IHC, Wauk.
33-5146	60		1.700	0.570	Chevy BB Aluminum
33-5126-5	60	-1	1.614	0.570	Chevy SB Aluminum
33-8806-5	60	^	1.170	0.600	Toyota
33-8016-5	60	^	1.250	0.812	Buick, Cadillac, Chev., Pontiac
33-6016-5	60	^	1.640	0.635	Chev., Chrysler, Ford w/ Remachined Guide
33-5066	60		1.530	0.645	Cup: Same Appl. As 33-306. Overall O.D. 1.650
33-5056	60		1.399	0.821	Cup: Small Block Chevy w/ Remachined Spring Pad
33-5036	60	*	1.520	1.031	Cup: Same Appl. As 33-103. Overall O.D. 1.640
33-5026	60		1.390	1.000	Cup: Same Appl. As 33-102. Overall O.D. 1.542
33-4086	60		1.140	0.570	Austin, Detroit/GMC 71 Ser. 2V
33-3026	60		1.312	0.765	Allis-C., AMC, Austin-Healey, Case, Cat., Chev., Cont., Ford Bronco, Holden, IHC, Mack, MG, Oliver, Porsche, Toyota
33-4056	60		1.750	0.890	John Deere
33-2036	60	*	1.250	0.812	Allis-C., Buick, Cadillac, Chev., GMC, Herc., IHC, Jeep, John Deere, Mack, Mazda, Olds, Pontiac, White
33-4016	60		1.600	0.820	Allis-C., Mack, Reo, White
33-4006-1	60		1.650	1.180	GMC Electomotive Diesel
33-4006	60		1.750	0.820	Cummins, Dodge Truck, IHC, Oliver
33-3066	60	*	1.437	0.645	Cat., Chev., Ford, Olds. Special Small Block
33-3056	60	*	1.437	0.785	Datsun, Mack, Nissan, Perkins, Pontiac
33-3046	60		1.500	1.156	Case, Cat., Perkins
33-3036	60	*	1.480	0.703	Buick, Cadillac, Chev., Chev. Truck, IHC, Mack, Olds., Pontiac
33-1006	60		1.312	0.954	Buick, Chev. Truck, Datsun, Minn-Mo., Nissan, Pontiac, Porsche, Toyota, Waukesha
33-3016	60	*	1.375	0.765	Ford Bronco, Ford Tractor, GMC, Harley-Davidson, Pontiac, Triumph
33-3006	60		1.125	0.719	AMC, Cat., Chrysler., Cont., Cummins, Dodge Truck, Ford Bronco, Hillman, Honda, Jeep, John Deere, Mack, Mercedes, Peugeot, Toyota, White
33-2036-1	60		1.140	0.812	Ford Escort 1.6L 1978
33-4076	60		1.156	0.828	Allis-C., Buda, Cat., Cummins, Wauk., White

\* Also Available in High-Performance w/ -5 Suffix  
 -1 Suffix Denotes Special Application

^ Only Available in High-Performance  
 For Cup and I.S. Cup O.D. and I.D. Are For Spring Pad

# KEEPER NUMERICAL LISTING

QC #	Heat Treated	Application	No. Of Grooves	QC #	Heat Treated	Application	No. Of Grooves
34-5035	Yes	SUB	1	34-5028	Yes	HYU, KIA	1
34-165	Yes	FDI, FTA, GM	NA	34-5030	Yes	GM	1
34-206	NA	FOR	3	34-5031	Yes	VOK	3
34-208	Yes	TOI, TOY	3	34-5032	Yes	GM	1
34-212	Yes	FOR, MAI, MAZ	1	34-5033	Yes	BMW, GM	3
34-213	Yes	FOR, KIA, MAI, MAZ	1	34-5034	Yes	SUB	1
34-217	Yes	CHC, GM 8mm	1	34-06513	Yes	CHC, MIT, PER, VOK	3
34-219	Yes	CHC, GM	1	34-07050	Yes	CHC	3
34-234	No	HON	1	34-07209	Yes	GM	1
34-235	No	Mit, Hon 6.5mm	1				
34-237	Yes	CHC	4				
34-281	Yes	FDI, FOR, LAN, MAZ	3				
34-310	No	CHR, GM	NA				
34-510	Yes	CAT, GM	1				
34-00515	Yes	CHC, FOR	3				
34-555	Yes	Universal 11/32	1				
34-613	Yes	Universal 3/8	1				
34-614	Yes	Universal 5/16	1				
34-619	Yes	CHR, FOR, MAZ, VOK	3				
34-620	Yes	FOR, MAZ	4				
34-716	Yes	CHC, FOR, HYU, MAZ, MDI, MIT	1				
34-719	Yes	CHC, Mit. 6mm	1				
34-743	No	CHI, CHM, CHC, JDR	2				
34-746	Yes	CAT, CHI, CHM, CHC, CUM, JDR, WAU	2				
34-766	Yes	CHI, CHM, CHC, IHC, IHN	4				
34-802	Yes	CAS, CON, FDI, FOR, IHN, JDR, MAC	1				
34-811	Yes	TOI, TOY	1				
34-813	Yes	CHC, MDI, MIT	1				
34-815	Yes	GM, NII, NIS	1				
34-819	Yes	GM,HON, ISU, MIT	1				
34-860	Yes	CHC	1				
34-00992	Yes	GM	1				
34-01030	Yes	CHC	4				
34-03722	Yes	CHC	3				
34-04644	Yes	CUM, IHC, IHN, ISU	1				
34-5001	Yes	GM, ISU	1				
34-5005	Yes	GM, TOY 8mm	1				
34-5007	Yes	FOR, NIS	1				
34-5008	Yes	HON	1				
34-5009	Yes	FOR, GM, SUZ	1				
34-5010	Yes	NIS	1				
34-5011	Yes	GM, NIS, TOY	1				
34-5012	Yes	NIS	1				
34-5018	Yes	ISU	1				
34-5020	Yes	CHC, CUM	1				
34-5021	Yes	Various	3				
34-5022	Yes	GM,SUZ	1				
34-5023	Yes	GM,TOY	1				
34-5024	Yes	FOR, HON 5.5mm	1				
34-5025	Yes	FOR	1				
34-5026	Yes	CHC	1				
34-5027	Yes	CHC	2				

# LIFTER NUMERICAL LISTING

QC #	Type	Length	O.D.	Application
36-817CCI	Hydraulic	2.000	0.8425	GM Flat Chilled Cast Iron
36-872	Mechanical	1.830	0.8738	FOR
36-900CCI	Hydraulic	2.000	0.8743	FOR Flat Chilled Cast Iron
36-951	Hydraulic	2.000	0.8425	GM
36-969	Hydraulic	2.000	0.8425	GM
36-976	Hydraulic	1.900	0.9380	CHC
36-992	Mechanical	2.000	0.8425	GM Early
36-1160	Hydraulic	3.156	0.8425	GM SBC Retro-fit Pair with Bar
36-1161	Hydraulic	2.966	0.8425	GM BBC Retro-fit Pair with Bar
36-2011CCI	Hydraulic	1.900	0.9040	CHC Chilled Cast Iron
36-2012	Hydraulic	2.108	0.8420	FOR,MAZ
36-2032	Mechanical			FOR
36-2056	Hydraulic	2.010	0.8425	GM
36-2083	Hydraulic	1.830	0.8743	FOR
36-2084	Mechanical	1.830	0.9043	CHC
36-2089	Hydraulic	1.830	0.9043	CHC
36-2095	Hydraulic	2.000	0.8425	GM
36-2104	Hydraulic	2.602	0.9210	GM,FOR,IHC
36-2105	Hydraulic	2.043	0.6263	CHC
36-2148	Hydraulic	2.600	0.8425	GM Vortec Roller
36-2148G	Guide			GM Vortec Dogbone Guide
36-2198	Hydraulic	0.756	0.2480	FOR, NIS
36-2205	Hydraulic	2.515	0.8742	FOR
36-2217	Hydraulic	1.874	0.8740	FOR
36-2236	Hydraulic	1.057	1.3748	GM
36-2244	Hydraulic	1.650	0.8700	FOR,MAZ
36-2251	Hydraulic	1.020	1.3800	VOK
36-2254	Hydraulic	0.815	0.4710	FOR, MAZ, SUB
36-2269	Hydraulic	2.600	0.9038	CHC
36-2270	Hydraulic	2.230	0.8431	GM
36-2271	Hydraulic	2.017	0.6299	FOR,CHC
36-2272	Hydraulic	1.024	1.2200	SUZ, GM
36-2273	Hydraulic	1.065	1.2980	GM
36-2274	Hydraulic	2.051	0.6260	CHC, HYU, MIT
36-2276	Hydraulic	0.939	1.1850	MAZ
36-2277	Hydraulic	0.967	1.2181	NIS
36-2278	Hydraulic	1.831	0.6263	CHC
36-2279	Hydraulic	2.603	0.8421	GM BBC Roller
36-2279G	Guide			GM BB Dogbone Guide
36-2284	Mechanical	0.943	1.1783	NIS
36-2285	Hydraulic	1.772	0.6677	NIS
36-2286	Mechanical	1.005	1.3370	NIS
36-2289	Hydraulic	1.024	1.1825	HYU,KIA
36-2291	Hydraulic	0.963	1.3752	HON, ISU
36-2292	Hydraulic	0.946	1.2970	KIA
36-2295	Hydraulic Bucket	1.020	1.3800	VOK
36-2296	Hydraulic Roller	2.200	0.8420	GM
36-2297	Hydraulic	1.606	0.4710	CHC
36-2299	Mechanical	0.974	1.2270	GM, TOY
36-2303RLA	Assembly			GM
36-2303FLA	Assembly			GM

QC #	Type	Length	O.D.	Application
36-2303	Hydraulic	3.785		GM
36-2303RG	Guide			GM
36-2303FG	Guide			GM
36-2305	Hydraulic	1.960	0.6300	FOR
36-2332	Hydraulic	2.600	0.842	CHC
36-6000	Hydraulic	1.024	0.5110	CHC, HYU, MAZ, MIT
36-6003	Mechanical	0.872	1.1015	GM, TOY
36-6005	Hydraulic	2.000	0.8425	TOI,TOY
36-6033	Hydraulic	0.651	0.7028	HON
36-7005	Hydraulic	2.011	0.6295	FOR
36-7008	Hydraulic	0.872	1.1015	TOY
36-7017	Hydraulic	1.035	1.3055	FOR
36-7021	Hydraulic	1.030	1.2583	DAE, ISU, VOL
36-7022	Hydraulic	1.029	1.1161	FOR
36-7074	Mechanical	1.008	1.2228	TOY
36-7075	Hydraulic	1.024	1.3189	VOK
36-7076	Hydraulic	0.945	0.9449	VOK
36-7078	Hydraulic	1.250	0.471	CHC
36-7082	Hydraulic	1.048	0.4720	GM,ISU
36-7085	Hydraulic			NIS
36-7086	Hydraulic			TOY
36-7089	Hydraulic	1.029	1.263	GM
36-7090	Hydraulic	1.298	1.0250	HYU
36-7091	Hydraulic			SUB
36-7092	Hydraulic	0.985	0.472	VOK
36-7093	Hydraulic			VOK
36-7101	Hydraulic			FOR
36-7102K	Hydraulic Roller Kit			CHC
36-7103K	Hydraulic Roller Kit			CHC
36-7104K	Hydraulic Roller Kit			CHC
36-7105	Hydraulic			CHC
36-7107	Hydraulic			HYU
36-7108	Hydraulic			HYU,KIA
36-7110	Hydraulic	3.070	0.8415	CHC Hemi MDS Bleed Hol
36-7111	Hydraulic	3.089	0.8415	CHC Hemi non-Bleed Hole
36-7116	Hydraulic			FOR
36-7561	Hydraulic	0.990	0.472	CHC
36-LUBE				Assembly Lube

## RETAINER / ROTATOR NUMERICAL LISTING

QC #	Application	Type
37-1046	GDI, GM, GMM	Rotator
37-2899	GDI, GM, GMM	Rotator
37-3198	CHC, CUM	Retainer
37-4000	FDI, FOR	Retainer
37-4002	CHC	Retainer
37-4003	GDI, GM, GMM	Rotator
37-4250	GDI, GM	Retainer
37-5666	CHC, CUM	Rotator
37-6514	FDI, FOR	Rotator

## QUALFAST HIGH PERFORMANCE RETAINERS

Part No	Stem Dia	O.D.	Step 1 Dia.	Step 2 Dia.	Deg.	Matl.	Note
<b>Domestic Performance</b>							
55-6906	11/32	1.130	0.865	0.615	7	ChromeMoly	GM Vortec 86-Up
55-6105	11/32	1.200	0.850	0.667	7	ChromeMoly	GM 265-350
55-6115	11/32	1.200	0.748	0.635	7	ChromeMoly	GM 265-350
55-6100	11/32	1.240	0.860	0.600	7	ChromeMoly	Std. SBC
55-6231	11/32	1.250	0.845	0.690	7	ChromeMoly	Buick 231
55-6179	11/32	1.330	0.987	0.660	7	ChromeMoly	Ford L6 300
55-6302	11/32	1.400	1.060	0.700	7	ChromeMoly	
55-6318	3/8	1.340	0.995	0.637	7	ChromeMoly	Chry. 318
55-6201	3/8	1.400	1.060	0.885	7	ChromeMoly	GM 396-454
55-6304	3/8	1.400	1.060	0.695	7	ChromeMoly	
55-6305	3/8	1.490	1.120	0.695	7	ChromeMoly	
55-6360	5/16	1.144	0.820	0.660	7	ChromeMoly	Chry. 360
55-6194	7mm	0.890	0.620	0.550	7	ChromeMoly	Ford 4.6L Late
55-6197	7mm	0.980	0.595	0.532	7	ChromeMoly	GM 2.2L 87-98
55-6294	7mm	1.040	0.742	0.595	7	ChromeMoly	Ford 4.6L Early
55-6103	8mm	1.030	0.640		7	ChromeMoly	GM LS1
55-6198	8mm	1.038	0.618		7	ChromeMoly	GM 3.1L 94-98
55-6123	8mm	1.230	0.860	0.600	7	ChromeMoly	GM LS1
55-6199	8mm	1.250	0.959	0.590	7	Chrome Moly	
55-6130	8mm	1.300	1.070	0.700	7	ChromeMoly	GM LS1
<b>Diesel Performance</b>							
55-6328	0.274	0.912	0.621		7	Chrome Moly	
55-6066	0.275	1.175	0.819	0.597	7	Chrome Moly	GM 6.6 Duramax
<b>Import Performance</b>							
55-9005	5.5mm	28mm	21.7mm	15.4mm	7	Titanium	Acura/Honda B16A-3, B17A, B18C1-5 VTEC
55-6922	8mm	1.295	0.904	0.600	7	ChromeMoly	Toyota 22R

# VALVE STEM SEAL NUMERICAL LISTING

QC #	Type	Application
38-20-45	TH	CHC, MII, MIT, VOK
38-46-45	TH	FOR
38-53-45	MC	NIS
38-008-45	TH	GM
38-031-45	TH	HON
38-097-65	2R	TOY
38-107-55	MC	Universal
38-108-45	MC	FOR
38-111-45	TH	FOR
38-119-35	UM	GDI, GM
38-120-45	MC	TOY
38-124-45	TH	FOR
38-125-65	2R	MAZ
38-160-55	TH	FDI, FOR, IHN
38-173-45	TH	FDI, FOR, IHN
38-210-55	MC	TOY
38-223-55	MC	GDI, GM, IDI, ISU
38-224-45	TH	FOR
38-225-45	MC	Universal
38-226-45	UM	CHC
38-231-25	2R	GM
38-231-15	2R	GM
38-240-25	OR	CHC, GM
38-240-15	OR	CHC,
38-247-45	MC	GM
38-250-35	UM	GM
38-252-45	UM	GM
38-253-45	UM	CHC, FDI, FOR
38-254-45	UM	CHC
38-255-35	UM	FOR
38-256-35	UM	FOR
38-259-35	UM	FDI, FOR
38-260-35	UM	CHC, FOR
38-261-35	UM	FOR
38-292-45	TH	FOR
38-299-45	MC	GDI, GM
38-300-45	RB	FOR
38-309-45	MC	FOR
38-310-55	MC	TOY
38-322-45	RB	GM
38-345-55	MC	CHC
38-354-45	TH	GM
38-371-45	MC	GDI, GM
38-373-55	MC	Universal
38-375-55	MC	Universal
38-377-45	MC	Universal
38-397-45	RB	GM
38-400-55	RB	FOR
38-403-45	MC	CAT, FDI, FOR, JDR
38-407-45	TH	GM
38-450-45	UM	Universal
38-450-25	UM	CHI, FOR, GDI, GM, PER, TOI
38-450-15	UM	GM
38-475-45	MC	TOY
38-480-45	MC	TOY
38-481-45	MC	TOY
38-503-55	MC	NIS

QC #	Type	Application
38-518-45	MC	NIS
38-520-45	MC	ISU
38-530-15	UM	CHC, FOR
38-530-45	UM	CHC
38-530-25	UM	CHC, CHI, FDI, FOR, GM, IHC
38-532-55	MC	Universal
38-535-45	RB	CAS, CHC, CUM, GM
38-535-25	RB	CHC
38-537-45	MC	TOY
38-542-55	MC	HON
38-552-45	MC	GDI, GM
38-553-55	MC	HYU, KIA, MIT
38-565-45	TH	FOR
38-569-45	MC	HON
38-570-45	RB	HON
38-571-45	TH	FOR
38-585-45	TH	GM
38-586-45	TH	GM
38-588-45	TH	GM
38-592-55	MC	HON
38-700-45	MC	SUZ
38-701-45	MC	SUZ
38-713-15	UM	CHC, FDI, FOR
38-731-25	2R	GM
38-731-15	2R	GM, FOR
38-737-15	UM	CHC
38-752-45	TH	CHC
38-766-15	UM	FOR
38-766-25	UM	FOR
38-780-25	UM	CHC, CHI, CHM
38-780-15	UM	CHC
38-800-45	TH	CHC
38-802-45	MC	CHC
38-803-45	MC	CHC
38-804-45	MC	CHC
38-805-55	MC	GM
38-805-45	MC	FOR
38-806-55	MC	FOR
38-809-45	TH	GM
38-810-45	RB	FOR
38-811-55	MC	GDI, GM, GMM
38-812-45	MC	CHC, FOR
38-814-45	RB	FOR
38-819-45	RB	GM
38-821-45	RB	GM
38-823-45	MC	GM
38-824-45	MC	GM
38-827-25	MC	GM
38-827-45	MC	FDI, GM, ISU
38-828-45	RB	GM
38-829-45	RB	GM
38-830-45	RB	GM, JDR
38-840-45	TH	FOR
38-843-45	TH	FOR
38-844-45	RS	FDI, FOR, GM, IHN
38-900-45	TH	GM
38-901-45	TH	GM

Material  
Denoted by  
Suffix:

-15 Nitrile  
-25 Polyacrylic  
-35 Glass Filled Nylon

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-45 Viton  
-55 Metal Clad  
-65 Silicone

-70 Teflon And Rubber  
-75 All Teflon  
-80 Teflon And Metal



# VALVE STEM SEAL NUMERICAL LISTING

QC #	Type	Application
38-903-15	UM	FOR
38-905-25	UM	FDI, FOR
38-905-15	UM	FOR
38-905-45	TH	FOR
38-907-15	UM	CHC
38-910-15	UM	GM
38-910-25	UM	CHC, FDI, FOR, GM, GMM, IHC, IHN, VOK
38-911-25	UM	FDI, FOR
38-911-15	UM	FOR
38-915-25	UM	CHC, FOR, FOM, GM, IHC, IHN
38-915-15	UM	FOR
38-916-25	UM	FOR
38-916-15	UM	FOR
38-921-25	2R	Universal
38-921-15	2R	CHC, GM
38-922-35	UM	GM
38-923-35	UM	GM
38-925-25	RB	Universal
38-925-15	2R	FOR
38-928-15	UM	CHC
38-928-25	UM	CHC
38-929-15	RB	GM
38-931-25	OR	VOK
38-935-45	RB	GM
38-936-45	RB	FOR, GM
38-937-15	RB	FDI, FOR, GM
38-938-45	RB	Universal
38-938-25	RB	FOR, GM
38-940-45	2R	CHC
38-950-15	MC	FOR
38-950-25	MC	FOR
38-951-25	2R	FDI, FOR, GM, GMM
38-956-45	RB	GM
38-961-55	MC	MDI, NII, NIS, VOK
38-962-45	RS	Universal
38-964-55	MC	Universal
38-964-65	2R	CHC, MAZ, MIT
38-965-45	RS	HON
38-966-55	MC	KIA, MAI, MAZ
38-967-55	MC	GM, TOI, TOY
38-967-25	MC	TOY
38-968-45	TH	TOY
38-971-45	UM	TOI, TOY
38-975-15	RS	HON
38-976-45	MC	HON
38-978-55	MC	VOK
38-980-45	MC	TOY
38-981-25	MC	TOY
38-982-25	MC	TOY
38-985-55	MC	FOR, NII, NIS
38-986-25	RS	NIS
38-988-55	MC	NIS
38-992-25	MC	HON
38-994-55	MC	HON, SUZ
38-995-25	MC	HON
38-996-55	MC	CHC, HYU, MIT
38-997-45	MC	MAZ

QC #	Type	Application
38-998-45	MC	HON, MAZ, SUZ
38-1036-70	TR	CHC
38-1045-70	TR	FDI, GMM
38-1046-75	TE	CON, PER
38-1053-75	TE	DDA
38-1054-70	TR	Universal
38-1055-70	TR	CUM, KOM, MIN
38-1062-70	TR	FDI, FOR
38-1064-75	TE	DDA
38-1065-70	TR	FOR, GM, IHC
38-1066-75	TE	FOR, GM
38-1067-75	TE	Universal
38-1068-70	TR	Universal
38-1090-75	TE	GMM, GM
38-1091-75	TE	FOR
38-1100-75	TE	Universal
38-1321-55	MC	SUB
38-1329-45	MC	DAE, GM, ISU, SAA
38-2006-25	UM	GM
38-3500-45	TH	GM
38-3995-55	MC	CHC, VOK
38-3995-55	MC	VOK
38-4788-35	UM	GM
38-5080-55	MC	CHC, MBT, MER
38-6036-55	TH	GM, SAA, SUZ
38-6101-55	TH	CHC, HYU, KIA
38-6103-55	MC	KIA
38-6105-55	TH	FOR, MAZ
38-6108-55	MC	TOY
38-6110-55	MC	TOY
38-6100-55	TH	DAE
38-6115-55	TH	GDI, GM, IDI, ISU
38-6116-45	UM	CHC 2.2, 2.5L
38-6117-55	TH	NIS, REN
38-6118-55	TH	FOR
38-6119-55	TH	FOR
38-6120-55	TH	FOR
38-6125-55	2R	FOR
38-6126-55	MC	MBT, MBZ
38-6127-55	TH	FOR 6.2L
38-6128-55	TH	FOR
38-6129-55	TH	FDI, FOR
38-6130-55	MC	BMW
38-6131-55	TH	GM 1.6L
38-6132-55	MC	GDI, GM 6.6L Late
38-6995-45	TH	GM
38-8500-55	MC	Universal
38-8530-55	MC	Universal
38-9500-55	MC	Universal
38-9530-55	MC	Universal
38-9675-45	MC	VOK

Material  
Denoted by  
Suffix:

-15 Nitrile  
-25 Polyacrylic  
-35 Glass Filled Nylon

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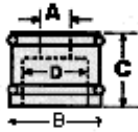
-45 Viton  
-55 Metal Clad  
-65 Silicone

-70 Teflon And Rubber  
-75 All Teflon  
-80 Teflon And Metal

# VALVE STEM SEAL LISTING BY TYPE AND STEM DIA.

2R

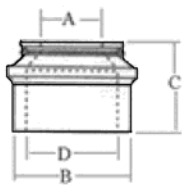
2 Ring



QC #	Nom. Stem Dia.	A	B	C	D
38-6125-55	0.216	0.1712		0.6673	0.4149
38-097-65	7mm	0.265	0.525	0.386	0.420
38-125-65	7mm	0.274	0.525	0.365	0.425
38-731-25	0.313	0.295	0.715	0.555	0.540
38-731-15	0.313	0.295	0.715	0.555	0.540
38-964-65	8mm	0.315	0.550	0.360	0.490
38-925-15	11/32	0.320	0.680	0.485	0.460
38-951-25	11/32	0.325	0.690	0.475	0.510
38-231-15	11/32	0.341	0.860	0.470	0.545
38-231-25	11/32	0.341	0.860	0.470	0.545
38-921-15	3/8	0.345	0.785	0.475	0.575
38-921-25	3/8	0.345	0.785	0.475	0.575
38-940-45	3/8	0.345	0.750	0.485	0.572

MC

Metal Clad



QC #	Nom. Stem Dia.	A	B	C	D
38-6110-55	0.216				
38-6130-55	0.196				
38-6108-55	0.196	0.170	0.451	0.402	0.366
38-210-55	0.216	0.178	0.493	0.405	0.400
38-6103-55	0.215	0.181	0.740	0.756	0.425
38-592-55	0.216	0.187	0.507	0.393	0.429
38-310-55	0.216	0.191	0.505	0.393	0.401
38-537-45	0.236	0.193	0.530	0.435	0.419
38-475-45	0.236	0.194	0.529	0.372	0.430
38-994-55	0.236	0.195	0.505	0.450	0.383
38-998-45	0.236	0.195	0.531	0.409	0.429
38-9675-45	0.236	0.195	0.480	0.395	0.334
38-520-45	0.236	0.197	0.531	0.390	0.429
38-701-45	5mm	0.201	0.456	0.372	0.358
38-553-55	0.236	0.202	0.546	0.465	0.426
38-981-25	0.197	0.202	0.530	0.370	0.413
38-992-25	5mm	0.202	0.512	0.3935	0.433
38-995-25	5mm	0.202	0.512	0.3935	0.433
38-1329-45	0.236	0.203	0.347	0.385	0.337
38-247-45	0.236	0.206	0.550	0.405	0.423
38-53-45	5.5mm	0.207	0.474	0.456	0.368
38-120-45	0.236	0.208	0.530	0.395	0.427

38-996-55	0.260	0.225	0.582	0.480	0.465
38-503-55	0.275	0.230	0.553	0.455	0.424
38-978-55	0.275	0.230	0.520	0.402	0.374
38-985-55	0.275	0.230	0.550	0.517	0.425
38-980-45	7mm	0.232	0.550	0.388	0.450
38-997-45	0.275	0.235	0.562	0.517	0.470
38-988-55	0.236	0.236	0.571	0.591	0.449
38-6132-55	0.273	0.236	0.435	0.453	0.437
38-481-45	0.236	0.237	0.534	0.406	0.435
38-569-45	0.260	0.237	0.541	0.410	0.470
38-827-45	0.250	0.238	0.620	0.512	0.497
38-824-45	7mm	0.240	0.632	0.390	0.415
38-1321-55	0.275	0.240	0.596	0.509	0.465
38-309-45	0.276	0.241	0.600	0.578	0.485
38-5080-55	7mm	0.242		0.3450	0.370
38-299-45	0.276	0.245	0.573	0.381	0.434
38-225-45	1/4	0.250	0.615	0.515	0.502
38-827-25	1/4	0.250	0.610	0.513	0.500
38-518-45	6.5mm	0.260	0.518	0.453	0.417
38-542-55	7mm	0.265	0.550	0.468	0.472
38-950-25	0.315	0.265	0.723	0.365	0.455
38-802-45	0.313	0.272	0.677	0.516	0.519
38-812-45	0.315	0.272	0.613	0.367	0.454
38-961-55	8mm	0.272	0.564	0.535	0.470
38-3995-55	0.315	0.274	0.566	0.412	0.408
38-3995-55	0.315	0.274	0.556	0.412	0.408
38-804-45	0.313	0.275	0.623	0.531	0.491
38-976-45	0.275	0.275	0.543	0.470	0.470
38-982-25	7mm	0.275	0.606	0.406	0.512
38-8500-55	0.313	0.275	0.546	0.498	0.497
38-8530-55	0.313	0.275	0.575	0.498	0.527
38-700-45	9/32	0.276	0.574	0.382	0.472
38-223-55	0.313	0.278	0.610	0.6417	0.484
38-967-25	0.315	0.279	0.610	0.398	0.503
38-480-45	0.315	0.280	0.609	0.515	0.505
38-805-55	0.315	0.280	0.608	0.502	0.491
38-964-55	0.315	0.280	0.609	0.515	0.505
38-967-55	0.315	0.280	0.610	0.398	0.503
38-966-55	8mm	0.282	0.595	0.475	0.482
38-345-55	0.313	0.2840	1.374	1.043	0.531
38-950-15	0.313	0.285	0.723	0.365	0.465
38-371-45	0.344	0.295	0.671	0.496	0.543
38-107-55	0.344	0.300	0.635	0.530	0.482
38-823-45	11/32	0.300	0.625	0.400	0.470
38-108-45	0.344	0.303	0.620	0.524	0.494
38-532-55	0.344	0.303	0.674	0.527	0.523
38-9500-55	0.344	0.304	0.546	0.498	0.497
38-9530-55	0.344	0.304	0.575	0.498	0.527
38-6126-55	0.3127	0.305	0.606	0.416	0.450
38-806-55	0.344	0.307	0.661	0.518	0.550
38-805-45	0.344	0.308	0.705	0.582	0.544
38-803-45	0.373	0.325	0.798	0.690	0.629
38-403-45	0.375	0.335	0.741	0.530	0.617
38-375-55	0.375	0.338	0.677	0.520	0.516
38-552-45	0.373	0.339	0.725	0.409	0.590
38-373-55	0.375	0.340	0.623	0.530	0.488
38-377-45	0.375	0.343	0.661	0.516	0.553
38-811-55	9mm	0.353	0.750	0.519	0.600

Material Denoted by Suffix:

- 15 Nitrile
- 25 Polyacrylic
- 35 Glass Filled Nylon

- 45 Viton
- 55 Metal Clad
- 65 Silicone

- 70 Teflon And Rubber
- 75 All Teflon
- 80 Teflon And Metal

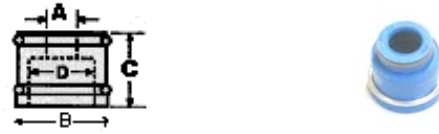
# VALVE STEM SEAL LISTING BY TYPE AND STEM DIA.

## OR O-Ring



QC #	Nom. Stem Dia.	A	B	C	D
38-931-25	7mm	0.275	0.480	0.100	
38-240-25	11/32	0.341	0.500	0.075	
38-240-15	11/32	0.341	0.500	0.075	

## RS Ring and Spring



QC #	Nom. Stem Dia.	A	B	C	D
38-965-45	6.5mm	0.215	0.523	0.360	0.420
38-975-15	0.236	0.236	0.530	0.374	0.4135
38-986-25	7mm	0.275	0.659	0.544	0.437
38-962-45	0.315	0.276	0.631	0.570	0.456
38-844-45	0.372	0.330	0.735	0.485	0.561

## RB Ring and Band



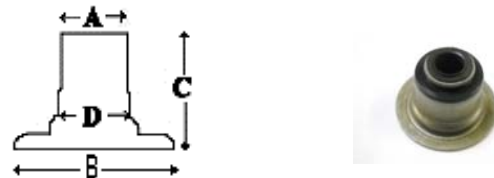
QC #	Nom. Stem Dia.	A	B	C	D
38-570-45	0.236	0.217	0.415	0.335	0.315
38-322-45	0.274	0.248	0.610	0.474	0.446
38-300-45	0.276	0.255	0.679	0.491	0.485
38-535-25	0.313	0.285	0.650	0.549	0.465
38-535-45	0.313	0.286	0.668	0.490	0.465
38-397-45	0.313	0.290	0.610	0.480	0.457
38-936-45	0.313	0.290	0.657	0.495	0.465
38-830-45	0.315	0.292	0.633	0.475	0.460
38-819-45	0.313	0.295	0.621	0.434	0.455
38-821-45	0.313	0.295	0.621	0.434	0.455
38-810-45	11/32	0.302	0.628	0.557	0.433
38-938-45	0.342	0.307	0.692	0.484	0.485
38-400-55	11/32	0.310	0.783	0.489	0.590
38-829-45	0.313	0.310	0.692	0.475	0.500
38-935-45	0.313	0.310	0.663	0.461	0.562
38-925-25	11/32	0.320	0.662	0.485	0.460
38-937-15	11/32	0.320	0.671	0.485	0.562
38-814-45	11/32	0.330	0.690	0.445	0.520
38-929-15	11/32	0.341	0.663	0.485	0.530
38-956-45	11/32	0.341	0.668	0.470	0.535
38-828-45	11/32	0.342	0.692	0.484	0.552
38-938-25	11/32	0.343	0.660	0.485	0.500

## TE All Teflon



QC #	Nom. Stem Dia.	A	B	C	D
38-1064-75	1/4	0.220	0.490	0.450	0.376
38-1046-75	0.313	0.292	0.640	0.510	0.512
38-1053-75	0.313	0.293	0.500	0.510	0.390
38-1090-75	11/32	0.319	0.640	0.510	0.470
38-1100-75	11/32	0.320	0.660	0.510	0.527
38-1066-75	11/32	0.328	0.630	0.510	0.509
38-1067-75	3/8	0.349	0.630	0.510	0.508
38-1091-75	3/8	0.354	0.600	0.510	0.474

## TH Top Hat



QC #	Nom. Stem Dia.	A	B	C	D
38-6131-55	0.196	0.158	0.906	0.606	0.295
38-6120-55	0.196	0.162	0.697	0.642	0.390
38-6117-55	0.217	0.172	0.716	0.653	0.420
38-6105-55	0.215	0.175		0.709	0.425
38-6101-55	0.215	0.179	0.665	0.787	0.419
38-6036-55	0.236	0.190	0.700	0.788	0.434
38-6995-45	0.236	0.191		0.838	0.392
38-6128-55	0.235	0.193	0.663	0.660	0.411

Material Denoted by Suffix:

- 15 Nitrile
- 25 Polyacrylic
- 35 Glass Filled Nylon

- 45 Viton
- 55 Metal Clad
- 65 Silicone

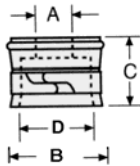
- 70 Teflon And Rubber
- 75 All Teflon
- 80 Teflon And Metal

# VALVE STEM SEAL LISTING BY TYPE AND STEM DIA.

38-354-45	0.236	0.195	0.397	0.738	0.392
38-6118-55	0.236	0.195	0.904	0.634	0.425
38-6119-55	0.236	0.195	0.598	0.634	0.425
38-008-45	0.236	0.198	1.040	0.517	0.437
38-586-45	0.236	0.198	0.650	0.517	0.437
38-407-45	5mm	0.200	1.100	0.575	0.425
38-905-45	0.236	0.205	1.060	0.725	0.410
38-20-45	0.236	0.206	0.670	0.725	0.430
38-565-45	0.236	0.206	1.000	0.737	0.488
38-6100-55	0.236	0.207	1.043	0.615	0.419
38-571-45	0.236	0.210	0.2678	0.802	0.460
38-3500-45	0.236	0.210	0.382	0.625	0.390
38-6129-55	0.276	0.230	0.614	0.653	0.461
38-46-45	7mm	0.240	1.106	0.646	0.476
38-588-45	0.236	0.240	1.250	0.790	0.500
38-111-45	0.275	0.243	1.108	0.804	0.488
38-124-45	7mm	0.244		0.835	0.485
38-224-45	7mm	0.244	1.370	0.835	0.485
38-292-45	0.275	0.245	1.218	0.656	0.460
38-585-45	1/4	0.247	1.220	0.580	0.441
38-160-55	0.275	0.250	1.000	1.023	0.562
38-752-45	1/4	0.250	1.227	0.733	0.460
38-843-45	1/4	0.250	0.597	0.800	0.435
38-6127-55	0.313	0.273	0.748	0.978	0.488
38-800-45	7mm	0.275	1.090	0.668	0.454
38-968-45	8mm	0.276	0.906	0.775	0.515
38-031-45	0.313	0.280	0.890	0.903	0.515
38-809-45	0.313	0.280	0.890	0.903	0.552
38-840-45	0.315	0.280	0.894	0.716	0.445
38-901-45	0.313	0.282	1.185	0.884	0.490
38-900-45	0.314	0.286	1.187	0.887	0.492
38-173-45	0.313	0.295	1.390	1.090	0.555
38-6115-55	9mm	0.321	0.595	0.730	0.545

## TR

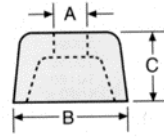
Teflon and Rubber



QC #	Nom. Stem Dia.	A	B	C	D
38-1062-70	0.313	0.296	0.660	0.505	0.461
38-1065-70	11/32	0.314	0.670	0.500	0.531
38-1045-70	11/32	0.320	0.640	0.485	0.460
38-1054-70	11/32	0.341	0.730	0.500	0.562
38-1068-70	3/8	0.362	0.710	0.500	0.531
38-1036-70	3/8	0.372	0.770	0.500	0.625
38-1055-70	0.4375	0.435	0.830	0.500	0.687

## UM

Umbrella



QC #	Nom. Stem Dia.	A	B	C	D
38-226-45	0.276	0.257	0.653	0.456	0.430
38-766-25	0.310	0.265	0.840	0.695	0.662
38-766-15	0.310	0.271	0.866	0.695	0.662
38-915-25	11/32	0.280	0.855	0.715	0.775
38-915-15	11/32	0.280	0.855	0.715	0.775
38-971-45	9/32	0.280	0.550	0.4724	0.558
38-6116-45	0.313	0.285	0.648	0.549	0.430
38-255-35	0.313	0.303	0.805	0.675	0.7520
38-916-15	11/32	0.304	0.760	0.765	0.580
38-737-15	11/32	0.305	0.905	0.820	0.805
38-450-25	11/32	0.306	0.764	0.569	0.672
38-450-15	11/32	0.306	0.764	0.569	0.672
38-252-45	0.372	0.310	0.880	0.860	0.810
38-254-45	3/8	0.310	0.885	0.300	
38-450-45	11/32	0.310	0.725	0.560	0.645
38-780-15	3/8	0.310	0.885	0.300	
38-780-25	3/8	0.310	0.885	0.300	
38-910-25	3/8	0.310	0.892	0.860	0.810
38-910-15	3/8	0.310	0.892	0.860	0.810
38-916-25	11/32	0.310	0.760	0.765	0.580
38-530-45	3/8	0.313	0.888	0.675	0.750
38-530-25	3/8	0.313	0.888	0.675	0.750
38-530-15	3/8	0.313	0.888	0.675	0.750
38-911-15	3/8	0.315	0.895	0.600	0.800
38-911-25	3/8	0.315	0.895	0.600	0.800
38-907-15	3/8	0.320	0.905	0.920	0.750
38-4788-35	11/32	0.323	0.715	0.449	0.620
38-905-25	3/8	0.332	0.885	0.795	0.757
38-905-15	3/8	0.332	0.885	0.795	0.757
38-250-35	11/32	0.335	0.715	0.455	0.610
38-922-35	11/32	0.335	0.837	0.365	0.690
38-923-35	11/32	0.335	0.820	0.433	0.686
38-2006-25	11/32	0.335		0.6450	0.768
38-259-35	11/32	0.338	0.893	0.575	0.755
38-256-35	11/32	0.341	0.870	0.700	
38-903-15	11/32	0.341	0.880	0.650	
38-928-25	3/8	0.345	0.784	0.562	0.546
38-928-15	3/8	0.345	0.784	0.562	0.546
38-253-45	0.372	0.350	0.5500	0.561	0.565
38-119-35	3/8	0.354	0.880	0.810	0.760
38-260-35	3/8	0.365	0.885	0.620	
38-713-15	7/16	0.405	0.930	0.805	
38-261-35	7/16	0.430	0.935	0.820	

Material Denoted by Suffix:

-15 Nitrile  
-25 Polyacrylic  
-35 Glass Filled Nylon

Page 376

-45 Viton  
-55 Metal Clad  
-65 Silicone

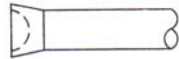
-70 Teflon And Rubber  
-75 All Teflon  
-80 Teflon And Metal

# ROCKER COMPONENT NUMERICAL LISTING

QC #	Application	Description	QC #	Application	Description
40-1807	FOR	Rocker Arm, 4.0L Cast	42-1724	GM	Rocker Comp., Shaft Plug Set
40-1840	GM	Rocker Arm. 1.5 Stamped Long Slot 7/16 Hole	42-1731	GM	Smooth Ball. Use w/ Press-In Studs
40-1841	GM	Rocker Arm. 1.5 Roller Tip Long Slot 7/16 Hole	42-1740	FOR	Rocker Comp., Bolt
40-1842	GM	Rocker Arm. 1.6 Stamped Long Slot 7/16 Hole	42-1741	FOR	Rocker Comp., Bolt w/ Washer
40-2702	CHC,MIT	Cam Follower. 2.0, 2.4L	42-1771	FOR	Rocker Comp., Smooth Ball
40-2710	FOR	Rocker Arm. Stamped	42-1772	FOR	Rocker Comp., Grooved Ball
40-2736	GDI, GM	Rocker Arm, Self-Aligning Stamped 3/8"	42-1776	FOR	Rocker Comp., Fulcrum
40-2737	GM	Rocker Arm, Self-Aligning Stamped 3/8" Stud	42-1783	GM	Rocker Comp., Smooth Ball
40-2738	GM	Rocker Arm, Self-Aligning Stamped 3/8" Stud	42-1786	GM	Rocker Comp., Nut 3/8x24 Adj.
40-2740	CHC	Rocker Arm, AMC 258	42-1791	FOR	Rocker Comp., Nut 5/16
40-2754	GDI, GM	Rocker Arm, GM 7.0, 7.4L	42-1792	GM	Rocker Comp., Grooved Ball
40-2755	GM	Rocker Arm, GM 6.0L	42-1793	FOR, GM	Rocker Comp., Nut 7/16
40-2758	CHC	Rocker Arm	42-1797	GM	Rocker Comp., Grooved Ball
40-2809	CHC	Cam Follower. 2.2, 2.5L. Stamped	42-1861	GM	Rocker Comp., Smooth Ball
40-2810	FOR	Cam Follower. 2.0, 2.3L. Forged	42-2070	TOY	Rocker Shaft
40-2813	GM	Rocker Arm, RH Stamped Steel	42-2641	FDI, FOR	Rocker Shaft. 18 x 0.84
40-2814	GM	Rocker Arm, Stamped LH	42-2661	CHC	Rocker Shaft
40-2840	GM	Rocker Arm, Stamped 3/8" Stud	42-2677	CHC	Rocker Shaft
40-2841	GM	Rocker Arm, Stamped 3/8" Stud	42-2701	CHC, CHI, CHM	Rocker Shaft
40-2842	GM	Rocker Arm, Stamped 3/8" Stud	42-2920	GDI, GM	Rocker Stud, 3/8-24 x 2.500 Press-In
40-2844	CHI, GM, GMM	Rocker Arm	42-2921	GDI, GM, GMM	Rocker Stud. +3 O/S 3/8-24 x 2.300 Press-In Adj.
40-2849	FOR	Rocker Arm. Cast. w/o Rails.	42-2934	FDI, FOR, FOM	Rocker Stud, 3/8-24x 2.600
40-2850	CHC, CHI, CHM	Rocker Arm, Stamped LH	42-2940	FDI, FOR	Stud, 7/16-20 x 7/16-14 Hex x 2.6700
40-2851	CHC, CHI	Rocker Arm, Stamped RH	42-2941	GDI, GM	Stud, 7/16-14x7/16-20x2.560
40-2859	FDI, FOR	Rocker Arm. Cast	42-2948	GM	Rocker Stud. Adjustable
40-2864	GM	Rocker Arm, Stamped	42-2971	GDI, GM	Rocker Stud Bolt
40-2864	GM	Rocker Arm.			
40-2867	GDI, GM	Rocker Arm, Stamped			
40-2868	GDI, GM	Rocker Arm, Stamped For >0.560 Lift			
40-2876	FDI, FOR	Rocker Arm. 240, 300 Cast			
40-2886	FOR	Rocker Arm, Cast w/ Rails 289, 302, 351			
40-2888	FDI, FOR, FOM	Rocker Arm, Stamped			
40-2889	FOR	Rocker Arm, Stamped 302 '78-98, 351			
40-2890	GM	Rocker Arm			
40-2891	GM	Rocker Arm, GM Olds 350			
40-2892	CHC, CHI, CHM	Rocker Arm, CHC 239, 340, 360 LH			
40-2893	CHC, CHI, CHM	Rocker Arm, CHC 239, 340, 360 RH			
40-2900	GDI, GM	Rocker Arm, GM 6.2, 6.5L Diesel			
40-2930	FOR	Cam Follower			
40-9106	TOY	Rocker Arm. Cast Aluminum			
40-9111	GDI, GM, GMM	Rocker Arm			
42-1702	FOR	Rocker Comp., Bolt			
42-1704	GM	Rocker Comp., Pivot			
42-1718	CHC,GM	Rocker Comp., Steel Bridge			
42-1719	CHC,IHC	Rocker Comp., Pivot			
42-1720	GM, ISU	Rocker Comp., Nut 10mm			
42-1721	GM	Rock Comp., Smooth Ball			

# ROCKER ARM KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
41-1736	40-2736	1	GDI, GM SBC
	42-1731	1	GDI, GM SBC
	42-1786	1	GDI, GM SBC
41-1737	40-2737	1	GM SBC
	42-1731	1	GM SBC
	42-1786	1	GM SBC
41-2401	40-2842	1	GM SBC
	42-1731	1	GM SBC
	42-1786	1	GM SBC
41-2402	40-2844	1	GM
	42-1783	1	GM
	42-1786	1	GM
41-2407	40-2864	1	GM, ISU
	42-1720	1	GM, ISU
	42-1721	1	GM, ISU
41-2501	40-2842	1	GM SBC
	42-1786	1	GM SBC
	42-1792	1	GM SBC
41-2504	40-2867	1	GDI, GM BBC
	42-1793	1	GDI, GM BBC
	42-1797	1	GDI, GM BBC
41-2507	40-2868	1	GM BBC
	42-1793	1	GM BBC
	42-1797	1	GM BBC
41-2508	40-2840	1	GM SBC
	42-1786	1	GM SBC
	42-1792	1	GM SBC
41-2509	40-1842	1	GM SBC
	42-1786	1	GM SBC
	42-1792	1	GM SBC
41-2547	40-2888	1	FOR
	42-1740	1	FOR
	42-1776	1	FOR
41-2548	40-2889	1	FOR
	42-1741	1	FOR
	42-1776	1	FOR
41-2554	40-2891	2	GM
	42-1704	2	GM
	42-1718	1	GM
41-2600	40-2876	1	FDI, FOR
	42-1771	1	FDI, FOR
	42-1786	1	FDI, FOR
	42-1791	1	FDI, FOR
41-2610	40-2886	1	FOR
	42-1772	1	FOR
	42-1786	1	FOR
	42-1791	1	FOR
41-2611	40-2710	1	FOR
	42-1702	1	FOR
	42-1776	1	FOR
41-2673	40-2754	1	GDI, GM
	42-1861	1	GDI, GM
	42-2971	1	GDI, GM
41-2738	40-2738	1	GM SBC
	42-1786	1	GM SBC
	42-1792	1	GM SBC



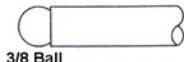
TYPE A



TYPE D

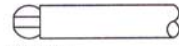


TYPE E



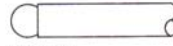
3/8 Ball

TYPE M



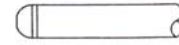
5/16 Ball

TYPE O



5/16 Ball

TYPE P



TYPE Q

Type: P = Pressed S = Swedged W = Welded

## PUSH ROD NUMERICAL LISTING

QC #	Length	Type	Tip 1	Tip2	O.D.	Application
74-5157	7.389	P	A	Q	5/16X .060	CHC
74-5311	9.620	W	M	M	5/16X .060	FDI, FOR, GM
74-5312	9.590	W	M	M	5/16X .060	FDI, FOR
74-5471	5.475	P	E	E	5/16X .060	FOR, MAZ
74-6034	7.793	W	O	O	5/16X .060	GM SB, AMC
74-6080	9.605	P	A	E	5/16x0.060	FOR
74-6105	9.136	W	O	O	5/16X .060	GM
74-6230	8.279	W	O	O	5/16X .075	GM BB Int
74-6231	9.252	W	O	O	5/16X .075	GM BB Exh
74-6274	8.550	W	O	O	5/16X .060	FDI, FOR
74-6279	6.804	W	O	O	5/16X .060	FOR
74-6281	6.876	W	O	O	5/16X .060	FOR 302
74-6306	10.136	W	O	O	5/16X .060	FOR 240, 300
74-6310	9.499	W	O	O	5/16X .060	FOR 351M, 400
74-6317	9.682	W	O	O	5/16X .060	GM
74-6321	8.575	W	P	P	5/16X .060	CHC
74-6323	9.315	W	P	P	5/16X .060	CHC
74-6324	7.500	W	P	P	5/16X .060	CHC
74-6335	9.652	W	O	O	5.16X .060	CHC, GM
74-6342	6.162	W	O	O	5/16X .060	GM 173, 189, 207
74-6346	7.204	W	O	O	5/16X .060	GM
74-6353	9.700	W	O	O	5/16X .060	CHC
74-6363	7.259	W	O	O	5/16X .060	GM
74-6366	6.247	W	O	O	5/16X .060	FOR
74-6373	7.195	W	O	O	5/16X .060	GM SB
74-6380	9.200	W	O	O	5/16X .075	GM BB Exh
74-6385	7.894	W	O	O	5/16X .060	CHC, GM
74-6441	8.281	S	O	O	3/8X .060	GM BB Int
74-6442	9.254	S	O	O	3/8X .060	GM BB Exh
74-6443	8.68	S	O	O	3/8X .060	GM
74-6445	7.700	S	O	O	3/8X .060	GM
74-6458	6.400	W	O	O	5/16X .075	FOR
74-6462	6.900	W	O	O	5/16X .060	CHC
74-6474	6.074	W	O	O	5/16X .060	GM
74-6475	5.746	W	O	O	5/16X .060	GM
74-6608	10.013	W	O	O	0.344X .060	FDI, FOR, IHN
74-6609	8.822	W	A	R	.371X .075	GDI, GM
74-6611	10.258	W	O	O	0.344X .060	FOR, IHN
74-6614	7.393	W	O	O	5/16X .075	GM, ISU, SAA
74-6615	7.192	W	O	O	5/16X .060	GM
74-6638	8.182	W	O	O	0.375X .060	GM, GDI
74-6639	9.140	W	O	O	0.375X .060	GM, GDI
74-6652	6.609	W	O	O	5/16X .060	CHC
74-6653	7.846	W	O	O	5/16X .060	CHC
74-6662	9.795	W	O	O	0.344X .060	FOR, IHN
74-9000						Measuring Tool 6.125 - 7.50"
74-9001						Measuring Tool 7.50 - 8.70"
74-9002						Measuring Tool 8.50 - 9.80"

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## INJECTOR COMPONENT NUMERICAL LISTING

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<b>QC #</b>	<b>Application</b>	<b>Description</b>
<b>87-1259</b>	GDI, GM	Injector O-Ring, 6.6L
<b>87-4376</b>	FDI, FOR, IHN	Injector Tube, 7.3L
<b>87-6951</b>	FDI, FOR, IHN	Injector Tube
<b>87-8320</b>	FDI, FOR, IHN	Injector Tube, 6.0L
<b>87-8463</b>	GDI, GM	Injector Tube, 6.6L



# EXPANSION PLUG SIZE LISTING BY TYPE AND O.D.

## Brass Concave Cup

QC #	Hole Dia.	O.D
96-500CCB	1/2"	0.500
96-750CCB	3/4"	0.750
96-875CCB	7/8"	0.875
96-937CCB	15/16"	0.937
96-1000CCB	1"	1.000
96-1031CCB	1-1/32"	1.031
96-1062CCB	1-1/16"	1.062
96-1125CCB	1-1/8"	1.125
96-1187CCB	1-3/16"	1.187
96-1250CCB	1-1/4"	1.250
96-1375CCB	1-3/8"	1.375
96-1483CCB	1-31/64"	1.483
96-1500CCB	1-1/2"	1.500
96-1562CCB	1-9/16"	1.562
96-1625CCB	1-5/8"	1.625
96-1734CCB	1-47/64"	1.734
96-1750CCB	1-3/4"	1.750
96-1875CCB	1-7/8"	1.875
96-1937CCB	1-15/16"	1.937
96-2000CCB	2"	2.000
96-2062CCB	2-1/16"	2.062

## Brass Cup

QC #	Hole Dia.	O.D
96-572CB	9/16	0.573
96-760CB	3/4"	0.760
96-885CB	7/8"	0.885
96-916CB	29/32"	0.916
96-947CB	15/16"	0.947
96-1010CB	1"	1.010
96-1062CB	1-1/16"	1.062
96-1135CB	1-1/8"	1.135
96-1192CB	1-3/16"	1.192
96-1226CB	1-7/32"	1.226
96-1260CB	1-1/4"	1.260
96-1385CB	1-3/8"	1.385
96-1510CB	1-1/2"	1.510
96-1572CB	1-9/16"	1.572
96-1635CB	1-5/8"	1.635
96-1648CB	1-5/8-0"	1.648
96-1760CB	1-3/4"	1.760
96-1762CB	1-49/64"	1.762
96-1885CB	1-7/8"	1.885
96-1943CB	1-15/16"	1.943
96-1953CB	1-61/64"	1.953
96-2005CB	2"	2.005
96-2017CB	2-1/64"	2.017
96-2070CB	2-1/16"	2.070
96-2150CB	2-1/8"	2.150
96-2260CB	2-1/4"	2.260

## Brass Metric Concave Cup

QC #	Hole Dia.	O.D
96-21MMCCB	21mm	21mm
96-24MMCCB	24mm	24mm

## Brass Metric Concave Cup

QC #	Hole Dia.	O.D
96-45MMCCB	45mm	45mm

## Brass Metric Cup

QC #	Hole Dia.	O.D
96-18MMCB	18mm	18.14mm
96-20MMCB	20mm	20.24mm
96-22MMCB	22mm	22.17mm
96-25MMCB	25mm	25.27mm
96-26MMCB	26mm	26.2mm
96-28MMCB	28mm	28.32mm
96-30MMCB	30mm	30.25mm
96-31.5MMCB	31.5mm	31.98mm
96-32MMCB	32mm	32.23mm
96-34.3MMCB	34mm	34.24mm
96-35MMCB	35mm	35.38mm
96-36MMCB	36mm	36.22mm
96-36.5MMCB	36.5mm	36.75mm
96-38MMCB	38mm	38.23mm
96-40MMCB	40mm	40.41mm
96-41.5MMCB	41mm	41.43mm
96-42.3MMCB	42mm	42.27mm
96-45MMCB	45mm	45.42mm
96-47MMCB	46.5mm	46.76mm
96-47.2MMCB	47mm	47.22mm
96-49.5MMCB	49.5mm	49.63mm
96-50MMCB	50mm	50.42mm
96-51.05MMCB	51mm	51.05mm

## Brass Shallow Cup

QC #	Hole Dia.	O.D
96-1010SCB	1"	1.010
96-1135SCB	1-1/8"	1.135
96-1260SCB	1-1/4"	1.260
96-1385SCB	1-3/8"	1.385
96-1510SCB	1-1/2"	1.510
96-1640SCB	1-5/8"	1.640
96-1642SCB	1-41/64"	1.642
96-1703SCB	1-45/64"	1.703
96-1760SCB	1-3/4"	1.760
96-1762SCB	1-49/64"	1.762
96-2005SCB	2"	2.005
96-2070SCB	2-1/16"	2.070
96-2109SCB	2-7/64"	2.112
96-2193SCB	2-3/16"	2.193
96-2260SCB	2-1/4"	2.259
96-2510SCB	2-1/2"	2.510

## Concave Cup

QC #	Hole Dia.	O.D
96-375CC	3/8"	0.375
96-437CC	7/16"	0.437
96-500CC	1/2"	0.500
96-562CC	9/16"	0.562
96-625CC	5/8"	0.625

## Concave Cup

QC #	Hole Dia.	O.D
96-687CC	11/16"	0.687
96-750CC	3/4"	0.750
96-812CC	13/16"	0.812
96-875CC	7/8"	0.875
96-937CC	15/16"	0.937
96-1000CC	1"	1.000
96-1031CC	1-1/32"	1.031
96-1062CC	1-1/16"	1.062
96-1125CC	1-1/8"	1.125
96-1187CC	1-3/16"	1.187
96-1250CC	1-1/4"	1.250
96-1312CC	1-5/16"	1.312
96-1375CC	1-3/8"	1.375
96-1437CC	1-7/16"	1.437
96-1484CC	1-31/64"	1.484
96-1500CC	1-1/2"	1.500
96-1562CC	1-9/16"	1.562
96-1625CC	1-5/8"	1.625
96-1687CC	1-11/16"	1.683
96-1734CC	1-47/64"	1.734
96-1750CC	1-3/4"	1.750
96-1812CC	1-13/16"	1.807
96-1875CC	1-7/8"	1.875
96-1937CC	1-15/16"	1.937
96-2000CC	2"	2.000
96-2062CC	2-1/16"	2.062
96-2125CC	2-1/8"	2.125
96-2250CC	2-1/4"	2.250
96-2375CC	2-3/8"	2.375
96-2500CC	2-1/2"	2.500
96-2750CC	2.745	2.750
96-3000CC	2.995	3.00

## Concave Special Ground

QC #	Hole Dia.	O.D
96-1500CCSG	1.500"	1.500

## Cup

QC #	Hole Dia.	O.D
96-322C	5/16"	0.322
96-385C	3/8"	0.385
96-0385CRT	3/8"	0.395
96-447C	7/16"	0.447
96-461C	29/64"	0.480
96-523C	1/2"	0.523
96-572C	9/16"	0.572
96-603C	19/32"	0.603
96-635C	5/8"	0.635
96-641C	41/64	0.640
96-666C	43/64"	0.666
96-760C	3/4"	0.760
96-885C	7/8"	0.885
96-916C	29/32"	0.916
96-947C	15/16"	0.947
96-1010C	1"	1.010

# EXPANSION PLUG SIZE LISTING BY TYPE AND O.D.

## Cup

QC #	Hole Dia.	O.D
96-1062C	1-1/16"	1.062
96-1135C	1-1/8"	1.135
96-1192C	1-3/16"	1.192
96-1226C	1-7/32"	1.226
96-1260C	1-1/4"	1.260
96-1385C	1-3/8"	1.385
96-1510C	1-1/2"	1.510
96-1572C	1-9/16"	1.572
96-1635C	1-5/8"	1.635
96-1648C	1-5/8-0"	1.648
96-1760C	1-3/4"	1.760
96-1762C	1-49/64"	1.762
96-1885C	1-7/8"	1.885
96-1888CRT	1-7/8	1.885
96-1943C	1-15/16"	1.943
96-1953C	1-61/64"	1.953
96-2005C	2"	2.005
96-2017C	2-1/64"	2.017
96-2070C	2-1/16"	2.070
96-2098C	2 3/32	2.098
96-2150C	2-1/8"	2.150
96-2194CRT	2-3/16	2.194
96-2260C	2-1/4"	2.260
96-2390CRT	2-25/64	2.390
96-2497CRT	2-1/2	2.497
96-2635C	2-5/8"	2.635
96-2697C	2-11/16"	2.697

## Metric Concave Cup

QC #	Hole Dia.	O.D
96-18MMCC	18mm	18mm
96-21MMCC	21mm	21mm
96-24MMCC	24mm	24mm
96-40MMCC	40mm	40mm
96-42MMCC	42mm	42mm
96-45MMCC	45mm	45mm
96-52MMCC	52mm	52mm

## Metric Cup

QC #	Hole Dia.	O.D
96-56.7MMFP	56.7mm	
96-10MMC	10mm	10.06mm
96-12.7MMC	12.67mm	12.67mm
96-12.9MMC	12.9mm	12.95mm
96-14.4MMC	14.4mm	14.42mm
96-14.7MMC	14.7mm	14.7mm
96-15.8MMC	15.8mm	15.88mm
96-16MMC	16mm	16.51mm
96-18MMC	18mm	18.14mm
96-18.7MMC	18.7mm	18.7mm
96-20MMC	20mm	20.24mm
96-21.4MMC	21.4mm	21.44mm
96-22MMC	22mm	22.17mm
96-25MMC	25mm	25.27mm
96-26MMC	26mm	26.16mm

## Metric Cup

QC #	Hole Dia.	O.D
96-28MMC	28mm	28.32mm
96-30MMC	30mm	30.25mm
96-31.5MMC	31.5mm	31.98mm
96-32MMC	32mm	32.23mm
96-34.3MMC	34mm	34.24mm
96-35MMC	35mm	35.38mm
96-36.5MMC	36.5mm	36.75mm
96-38.5MMC	38.5mm	38.23mm
96-38MMC	38mm	38.23mm
96-40MMC	40mm	40.41mm
96-41.5MMC	41mm	41.43mm
96-42.3MMC	42mm	42.27mm
96-44MMC	44mm	44.86mm
96-45MMC	45mm	45.42mm
96-47MMC	46.5mm	46.76mm
96-47.2MMC	47mm	47.2mm
96-49.5MMC	49.5mm	49.63mm
96-50MMC	50mm	50.42mm
96-56MMC	56mm	56.42mm

## Metric Shallow Cup

QC #	Hole Dia.	O.D
96-11.5MMSC	11.5mm	11.5mm
96-35MMSC	35mm	35mm

## Pipe Plug

QC #	Hole Dia.	O.D
96-375-1HCPP	3/8"	Hex C.S.
96-62HCPP	1/16"	Hex C.S.
96-750HCPP	3/4"	Hex C.S.
96-125HCPP	1/8"	Hex C.S.
96-250HCPP	1/4"	Hex C.S.
96-375HCPP	3/8"	Hex C.S.
96-500HCPP	1/2"	Hex C.S.
96-62HCPT	1/16"	Hex C.S. (Teflon)
96-125HCPT	1/8"	Hex C.S. (Teflon)
96-250HCPT	1/4"	Hex C.S. (Teflon)
96-375HCPT	3/8"	Hex C.S. (Teflon)
96-500HCPT	1/2 "	Hex C.S. (Teflon)
96-750HCPT	3/4"	Hex C.S. (Teflon)
96-1000HCPT	1"	Hex C.S. (Teflon)
96-375HPPS	3/8"	Hex C.S. Special
96-125-1HCPP	1/8"	Hex C.S.-Short
96-250-1HCPP	1/4"	Hex C.S.-Short
96-125-1HCPT	1/8"	Hex Teflon Short
96-250-1HCPT	1/4"	Hex Teflon Short
96-375-1HCPT	3/8"	Hex Teflon Short
96-125SLPP	1/8"	Slotted Head
96-125SHPP	1/8"	Square Head
96-750SHPP	3/4"	Square Head

## Shallow Cup

QC #	Hole Dia.	O.D
96-461SC	29/64"	0.449

## Shallow Cup

QC #	Hole Dia.	O.D
96-510SC	1/2"	0.510
96-541SC	17/32"	0.541
96-697SC	11/16"	0.697
96-731SC	47/64	0.731
96-823SC	13/16"	0.823
96-1010SC	1"	1.010
96-1135SC	1-1/8"	1.135
96-1260SC	1-1/4"	1.260
96-1320SC	1-21/64"	1.338
96-1385SC	1-3/8"	1.385
96-1510SC	1-1/2"	1.510
96-1640SC	1-5/8"	1.640
96-1642SC	1-41/64"	1.642
96-1703SC	1-45/64"	1.703
96-1745SC	1-47/64"	1.745
96-1760SC	1-3/4"	1.760
96-1762SC	1 49/64	1.762
96-1802SC	1-51/64"	1.802
96-1808SC	1-13/16"	1.825
96-1885SC	1 7/8"	1.885
96-1902SC	1-29/32"	1.902
96-1931SC	1-59/64"	1.931
96-1953SC	1-61/64"	1.953
96-1978SC	1-31/32"	1.978
96-2005SC	2"	2.005
96-2017SC	2-1/64"	2.017
96-2070SC	2-1/16"	2.070
96-2098SC	2-3/32"	2.098
96-2109SC	2-7/64"	2.109
96-2135SC	2-1/8"	2.135
96-2140SC	2-9/64"	2.140
96-2156SC	2-5/32"	2.156
96-2193SC	2-3/16"	2.193
96-02207SCRT	2-13/64	2.207
96-2228SC	2-7/32"	2.228
96-02233SCRT	2-15/64	2.233
96-2260SC	2-1/4"	2.260
96-2353SC	2-11/32"	2.353
96-2386SC	2-3/8"	2.386
96-2386SCRT	2-3/8"RT	2.386
96-2510SC	2-1/2"	2.510
96-2760SC	2-3/4"	2.760

## Stainless Steel Cup

QC #	Hole Dia.	O.D
96-760CSS	3/4"	0.760
96-885CSS	7/8"	0.885
96-947CSS	15/16"	0.947

## Stainless Steel Metric Cup

QC #	Hole Dia.	O.D
96-40MMCSS	40MM	
96-14.4MMCSS	14.4mm	14.42mm
96-18MMCSS	18mm	18.2mm
96-20MMCSS	20mm	20.24mm

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## EXPANSION PLUG SIZE LISTING BY TYPE AND O.D.

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### Stainless Steel Metric Cup

QC #	Hole Dia.	O.D
96-22MMCSS	22mm	22.2mm
96-25MMCSS	25mm	25.3mm
96-28MMCSS	28mm	28.35mm
96-30MMCSS	30mm	30.25mm
96-32MMCSS	32mm	32.23mm
96-38.6MMCSS	38mm	38.58mm

### Stainless Steel Shallow Cup

QC #	Hole Dia.	O.D
96-823SCSS	13/16"	0.823
96-1010SCSS	1"	1.010
96-1135SCSS	1-1/8"	1.135
96-1260SCSS	1-1/4"	1.260
96-1320SCSS	1-21/64"	1.320
96-1385SCSS	1-3/8"	1.385
96-1510SCSS	1-1/2"	1.510
96-1640SCSS	1-5/8"	1.640
96-1703SCSS	1-45/64"	1.703
96-1745SCSS	1-47/64"	1.745
96-1760SCSS	1-3/4"	1.760
96-1885SCSS	1-7/8"	1.885
96-2005SCSS	2"	2.005
96-2135SCSS	2-1/8"	2.137
96-2260SCSS	2-1/4"	2.262
96-2285SCSS	2-9/32	2.286
96-2386SCSS	2-3/8"	2.386
96-2510SCSS	2-1/2"	2.510

# EXPANSION PLUG KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
97-1B	96-2005CB	4	CHC
	96-2140SC	1	CHC
	96-375HCPP	2	CHC
97-2B	96-1510SCB	6	CHC
	96-2140SC	1	CHC
	96-375HCPP	4	CHC
97-3B	96-1510SCB	6	GM
	96-1931SC	1	GM
	96-250HCPP	2	GM
97-4B	96-603C	2	GM
	96-1510SCB	2	GM
	96-1931SC	1	GM
97-5B	96-2005CB	4	GM
	96-250HCPP	2	GM
	96-603C	2	GM
	96-1760SCB	6	GM
97-6B	96-2005SC	1	GM
	96-375HCPP	3	GM
	96-603C	2	GM
	96-1635CB	2	GM
97-7B	96-2000CCB	2	GM
	96-2109SC	1	GM
	96-375HCPP	4	GM
	96-603C	4	GM
97-8B	96-1635CB	3	GM
	96-2005SCB	1	GM
	96-2109SC	1	GM
	96-375HCPP	1	GM
97-9B	96-603C	1	GM
	96-1635CB	10	GM
	96-2109SC	1	GM
97-10B	96-250HCPP	5	GM
	96-523C	3	GM
	96-1760CB	8	GDI, GMM, GM
	96-2228SC	1	GDI, GMM, GM
97-11B	96-250HCPP	7	GDI, GMM, GM
	96-1260SCB	5	CHC
	96-1635CB	9	CHC
	96-1875CC	1	CHC
97-12B	96-1888CRT	1	CHC
	96-375HCPP	2	CHC
	96-500HCPP	1	CHC
	96-603C	2	CHC
97-13B	96-603C	2	CHC
	96-1635CB	6	CHC
	96-2140SC	1	CHC
97-14B	96-375HCPP	4	CHC
	96-1635CB	5	CHC
	96-2140SC	1	CHC
	96-375HCPP	2	CHC
97-15B	96-1760SCB	5	FOR
	96-2070SC	1	FOR
	96-2070SCB	1	FOR
	96-250HCPP	2	FOR
97-16B	96-447C	1	FOR
	96-2070SC	1	FOR
	96-2070SCB	5	FOR
	96-375HCPP	2	FOR
97-17B	96-1640SCB	5	FOR
	96-2070SCB	2	FOR
	96-2193SC	1	FOR
	96-250HCPP	2	FOR
97-18B	96-375HCPP	3	FOR
	96-1510SCB	6	FOR
	96-2156SC	1	FOR

QC #	Components	Qty.	Application
97-18B	96-250HCPP	4	FOR
	96-523C	3	FOR
	96-760C	1	FOR
97-19B	96-1510SCB	6	FOR
	96-2260SC	1	FOR
	96-375HCPP	2	FOR
97-20B	96-375HPPS	2	FOR
	96-1760SCB	6	FOR
	96-2386SCRT	1	FOR
	96-250HCPP	4	FOR
97-21B	96-447C	6	FOR
	96-1760SCB	4	FOR
	96-2070SC	1	FOR
	96-375HCPP	2	FOR
97-22B	96-1510SCB	6	FOR
	96-250HCPP	2	FOR
	96-2510SC	1	FOR
	96-375HCPP	1	FOR
97-23B	96-375HPPS	2	FOR
	96-1760CB	4	GM
	96-1978SC	1	GM
	96-375HCPP	4	GM
97-24B	96-500HCPP	2	GM
	96-947C	3	GM
	96-125SHPP	4	IHC
	96-1572CB	6	IHC
97-25B	96-1635CB	6	IHC
	96-1760SCB	4	IHC
	96-2005SC	1	IHC
	96-250HCPP	2	IHC
97-26B	96-375HCPP	2	IHC
	96-750CC	1	IHC
	96-125SHPP	4	IHC
	96-2000CCB	5	IHC
97-27B	96-375HCPP	2	IHC
	96-1510SCB	6	GM
	96-2098SC	1	GM
	96-375HCPP	2	GM
97-28B	96-603C	1	GM
	96-916C	1	GM
	96-1953CB	8	GM
	96-2070C	1	GM
97-29B	96-375HCPP	2	GM
	96-572C	2	GM
	96-947CB	1	GM
	96-1760CB	11	FOR
97-30B	96-2510SC	1	FOR
	96-375HCPP	2	FOR
	96-36.5MMCB	4	CHC
	96-18MMCC	2	GM
97-31B	96-31.5MMCB	7	GM
	96-52MMCC	1	GM
	96-14.4MMC	1	GM
	96-22MMCB	3	GM
97-32B	96-35MMCB	7	CHC
	96-40MMCB	2	CHC
	96-50MMCB	5	CHC
	96-35MMCB	3	NIS
97-33B	96-44MMC	1	NIS
	96-50MMCB	1	NIS
	96-40MMCB	7	NIS
	96-35MMCB	7	NIS
97-34B	96-40MMCB	7	NIS
	96-35MMCB	7	NIS
	96-40MMCB	1	NIS
97-35B	96-50MMCB	1	NIS
	96-50MMCB	1	NIS

# EXPANSION PLUG KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
97-36B	96-40MMCB	3	FIA
97-37B	96-125SLPP	1	FOR
	96-1642SCB	3	FOR
	96-2005SC	1	FOR
	96-250HCPP	3	FOR
	96-375HPPS	1	FOR
	96-461SC	3	FOR
97-38B	96-1510SCB	2	FOR
	96-1902SC	1	FOR
	96-250HCPP	1	FOR
	96-375HCPP	1	FOR
	96-447C	1	FOR
	96-572C	1	FOR
97-39B	96-1510SCB	3	FOR
	96-2070SC	1	FOR
	96-250HCPP	4	FOR
	96-375HCPP	4	FOR
97-40B	96-125SHPP	1	FOR
	96-1510SCB	7	FOR
	96-2005SC	1	FOR
	96-250HCPP	2	FOR
97-41B	96-20MMCB	2	FOR
	96-35MMCB	4	FOR
	96-49.5MMCB	1	FOR
97-42B	96-30MMCB	6	HON
97-43B	96-25MMCB	4	TOY
	96-35MMCB	3	TOY
	96-45MMC	1	TOY
	96-47MMCB	1	TOY
97-44B	96-18MMC	1	TOY
	96-35MMCB	4	TOY
	96-50MMCB	2	TOY
97-45B	96-21MMCCB	2	TOY
	96-25MMCB	2	TOY
	96-30MMCB	1	TOY
	96-385C	1	TOY
	96-50MMCB	4	TOY
97-46B	96-40MMCB	5	TOY
	96-45MMC	1	TOY
97-47B	96-42MMCC	1	VOL
	96-45MMCCB	6	VOL
97-48B	96-42MMCC	1	VOL
	96-45MMCCB	8	VOL
97-55B	96-1750CCB	3	IHC
	96-1875CC	1	IHC
	96-250HCPP	3	IHC
	96-750CC	1	IHC
97-56B	96-1135C	1	GM
	96-1510CB	2	GM
	96-1902SC	1	GM
	96-2260CB	4	GM
	96-375HCPP	3	GM
	96-697SC	3	GM
97-57B	96-1510SCB	4	GM
	96-1802SC	1	GM
	96-250HCPP	2	GM
	96-603C	2	GM
97-58B	96-1510SCB	6	GM
	96-2098SC	1	GM
	96-375HCPP	4	GM
	96-916C	1	GM
97-59B	96-1510SCB	3	CHC
	96-1635C	1	CHC
	96-2005CB	5	CHC

QC #	Components	Qty.	Application
	96-250HCPP	2	CHC
	96-375HCPP	3	CHC
97-60B	96-1635CB	2	GM
	96-1978SC	1	GM
	96-2000CCB	2	GM
	96-572C	1	GM
	96-625CC	1	GM
97-61B	96-1375CC	1	CHC
	96-1625CCB	7	CHC
	96-375HCPP	2	CHC
97-62B	96-1510SCB	8	GM
	96-375HCPP	2	GM
	96-625CC	2	GM
97-63B	96-1250CCB	2	CHC
	96-1750CC	1	CHC
	96-375HCPP	2	CHC
97-64B	96-1953CB	4	GM
	96-2070CB	1	GM
	96-375HCPP	2	GM
	96-572C	2	GM
	96-947C	1	GM
97-65B	96-12.7MMC	1	GM
	96-34.3MMCB	7	GM
97-66B	96-1510SC	1	GM
	96-18MMCC	2	GM
	96-35MMCB	3	GM
	96-52MMCC	1	GM
97-67B	96-1625CCB	4	MGB
97-68B	96-40MMCB	6	TOY
97-69B	96-25MMC	4	TOY
	96-47MMC	1	TOY
	96-50MMCB	5	TOY
97-70B	96-1885SC	1	TOY
	96-1937CCB	3	TOY
	96-24MMCCB	2	TOY
97-74B	96-1635CB	3	GM
	96-1953CB	1	GM
	96-2098SC	1	GM
	96-375HCPP	1	GM
	96-603C	2	GM
97-75B	96-14.4MMC	3	GM
	96-250HCPP	2	GM
	96-34.3MMCB	6	GM
	96-375HCPP	2	GM
97-76B	96-1510SCB	6	GM
	96-2098SC	1	GM
	96-375HCPP	2	GM
97-77B	96-35MMCB	1	TOY
	96-40MMCB	5	TOY
97-87B	96-1635CB	8	GDI
	96-16MMC	1	GDI
	96-2109SC	1	GDI
	96-250HCPP	1	GDI
	96-375HCPP	1	GDI
	96-523C	1	GDI
97-88B	96-1635CB	5	CHC
	96-635C	2	CHC
97-89B	96-125HCPP	1	CHC, MAZ, MIT
	96-250HCPP	1	CHC, MAZ, MIT
	96-28MMCB	4	CHC, MAZ, MIT
	96-375HCPP	1	CHC, MAZ, MIT
	96-40MMCB	3	CHC, MAZ, MIT
	96-50MMCB	3	CHC, MAZ, MIT
97-90B	96-1510SCB	1	GM

# EXPANSION PLUG KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
97-90B	96-18MMCC	1	GM
	96-35MMCB	5	GM
97-91B	96-36.5MMCB	4	CHC
	96-572C	2	CHC
97-92B	96-1500CCB	8	IHC
	96-250HCPP	4	IHC
	96-375HCPP	2	IHC
97-93SS	96-1260SCSS	2	ISU
	96-1510SCSS	1	ISU
	96-1760SCSS	4	ISU
97-94B	96-18MMC	4	ISU
	96-18MMCC	2	ISU
	96-36.5MMCB	1	ISU
	96-1510SCB	8	FOR
	96-2260SC	1	FOR
97-95B	96-250HCPP	2	FOR
	96-375HCPP	3	FOR
	96-375HPPS	3	FOR
97-96B	96-42.3MMCB	4	GM
97-97SS	96-250HCPP	2	GM
	96-34.3MMCB	4	GM
	96-375HCPP	1	GM
97-98B	96-1385SC	2	FDI, FOR, IHN
	96-1500CCSG	7	FDI, FOR, IHN
97-99B	96-16MMC	2	GDI, GM
	96-2228SC	1	GDI, GM
	96-250HCPP	5	GDI, GM
	96-375HCPP	1	GDI, GM
	96-41.5MMCB	6	GDI, GM
97-99-2B	96-1635CB	8	GDI, GM
	96-16MMC	1	GDI, GM
	96-2098SC	2	GDI, GM
	96-250HCPP	2	GDI, GM
	96-461C	1	GDI, GM
97-100B	96-1635CB	8	GDI, GM
	96-2098SC	2	GDI, GM
	96-250HCPP	2	GDI, GM
	96-461C	1	GDI, GM
	96-523C	3	CHC, GMM, GM
97-102B	96-2109SC	1	CHC, GMM, GM
	96-250HCPP	5	CHC, GMM, GM
	96-461C	3	CHC, GMM, GM
	96-523C	3	CHC, GMM, GM
	96-1010SCB	2	FAL
97-103B	96-1760CB	5	FAL
	96-2070SC	1	FAL
	96-250HCPP	1	FAL
	96-447C	1	FAL
97-105B	96-1510CB	1	ISU
	96-18MMC	2	ISU
	96-35MMCB	6	ISU
97-106B	96-1635CB	6	CHC
	96-635C	4	CHC
	96-1260SC	1	CHC
97-107B	96-1635CB	7	CHC
	96-1875CC	1	CHC
	96-125HCPP	1	FOR
	96-1640SCB	3	FOR
97-108B	96-2193SC	1	FOR
	96-250HCPP	3	FOR
	96-1762CB	4	FOR
	96-2193SCB	1	FOR

QC #	Components	Qty.	Application
	96-375HPPS	2	FOR
97-109B	96-1510SCB	7	FOR
	96-2017SC	1	FOR
97-110B	96-35MMCB	8	HON
	96-523C	2	HON
97-112B	96-125HCPP	1	MAZ
	96-20MMC	2	MAZ
	96-250HCPP	1	MAZ
	96-35MMCB	3	MAZ
97-113B	96-375HCPP	1	MAZ
	96-40MMCB	1	MAZ
	96-18MMC	2	MAZ
	96-20MMC	1	MAZ
97-114B	96-35MMCB	4	MAZ
	96-375HCPP	1	MAZ
	96-50MMCB	1	MAZ
97-116B	96-28MMCB	1	NIS
	96-30MMCB	8	NIS
	96-35MMCB	1	NIS
97-117B	96-35MMCB	6	TOY
	96-40MMCB	1	TOY
97-118B	96-1640SCB	5	FOI, FOR
	96-2070SCB	2	FOI, FOR
	96-2193SC	1	FOI, FOR
	96-250HCPP	2	FOI, FOR
	96-375HCPP	3	FOI, FOR
97-119B	96-447C	1	FOI, FOR
	96-523C	1	FOI, FOR
	96-1510SCB	5	FOR
	96-250HCPP	4	FOR
	96-1135CB	4	GM
97-120B	96-1510SCB	4	GM
	96-1931SC	1	GM
	96-1953SC	1	GM
	96-250HCPP	2	GM
	96-603C	2	GM
97-121SS	96-1635CB	5	GM
	96-1953C	1	GM
	96-2109SC	1	GM
97-122B	96-375HCPP	1	GM
	96-1510SCSS	5	FDI, FOR
	96-1760SCSS	1	FDI, FOR
97-123B	96-500HCPP	1	FDI, FOR
	96-823SC	1	FDI, FOR
	96-14.4MMC	2	FOR
97-124B	96-375HCPP	2	FOR
	96-38MMCB	10	FOR
	96-1510SCB	6	GM
97-125B	96-1953SC	1	GM
	96-250HCPP	1	GM
	96-1635CB	6	CHC
97-126B	96-635C	2	CHC
	96-1635CB	8	CHC
	96-635C	3	CHC
97-127B	96-1010CB	2	CHC
	96-2005CB	5	CHC
	96-2140SC	1	CHC
97-128B	96-375HCPP	3	CHC
	96-1385CB	2	CHC
	96-1635CB	1	CHC
97-129B	96-25MMCB	5	CHC
	96-125HCPP	2	GM
	96-250HCPP	7	GM
	96-34.3MMCB	6	GM

# EXPANSION PLUG KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
97-128B	96-375HCPP	2	GM
97-129B	96-1760CB	3	CHC
	96-2005CB	1	CHC
	96-2140SC	1	CHC
	96-375HCPP	3	CHC
97-130B	96-14.4MMC	2	VOK
	96-36.5MMCB	4	VOK
97-131B	96-250HCPP	4	GM
	96-34.3MMCB	7	GM
97-132B	96-35MMCB	4	TOY
	96-50MMC	2	TOY
97-134B	96-125HCPP	1	FOR
	96-1510SCB	6	FOR
	96-2193SC	1	FOR
	96-250HCPP	1	FOR
	96-375HCPP	1	FOR
97-135B	96-125HCPP	3	GDI, GM
	96-1635CB	6	GDI, GM
	96-2228SC	1	GDI, GM
	96-250HCPP	9	GDI, GM
	96-375HCPP	5	GDI, GM
97-136SS	96-1510SCSS	7	FDI, FOR
97-139B	96-18MMC	2	ISU
	96-35MMCB	6	ISU
	96-38MMCB	1	ISU
97-142B	96-40MMCB	8	NIS
97-144B	96-30MMCB	7	MAZ
	96-35MMCB	2	MAZ
97-145B	96-35MMCB	9	MAZ
	96-49.5MMCB	3	MAZ
97-148B	96-125HCPP	7	FOR
	96-1510SCB	2	FOR
97-149B	96-1510CB	10	FOR
	96-541SC	2	FOR
97-150B	96-375HCPP	1	FOR
	96-500HCPP	2	FOR
	96-750HCPP	2	FOR
	96-760CB	1	FOR
97-151B	96-1510SCB	6	GM
	96-1953SC	2	GM
	96-250HCPP	5	GM
	96-603C	2	GM
97-152B	96-14.4MMC	1	GM
	96-250HCPP	5	GM
	96-375HCPP	1	GM
	96-42.3MMCB	4	GM
97-153B	96-12.9MMC	1	GM
	96-250HCPP	4	GM
	96-375HCPP	1	GM
	96-42.3MMCB	4	GM
	96-572C	1	GM
97-154B	96-125HCPP	2	GM
	96-250HCPP	6	GM
	96-30MMCB	1	GM
	96-34.3MMCB	5	GM
	96-375HCPP	3	GM
97-155B	96-1385CB	2	CHC
	96-1635CB	1	CHC
	96-250HCPP	2	CHC
	96-25MMCB	5	CHC
	96-375HCPP	3	CHC
97-156B	96-250HCPP	3	TOY
	96-35MMCB	8	TOY
	96-375HCPP	3	TOY

QC #	Components	Qty.	Application
	96-40MMCB	1	TOY
	96-50MMCB	1	TOY
97-159B	96-35MMCB	11	TOY
97-160B	96-25MMCB	2	TOY
	96-30MMCB	6	TOY
	96-35MMCB	1	TOY
97-161B	96-30MMCB	1	TOY
	96-35MMCB	8	TOY
	96-40MMCB	3	TOY
97-162B	96-1375CC	1	TOY
	96-30MMCB	2	TOY
	96-35MMCB	1	TOY
	96-40MMCB	7	TOY
97-163SS	96-1010SCSS	4	CHC, CUM
	96-1260SCSS	1	CHC, CUM
	96-2285SCSS	6	CHC, CUM
	96-2375CC	1	CHC, CUM
	96-697SC	2	CHC, CUM
97-164B	96-1010CB	2	CHC
	96-1510SCB	6	CHC
	96-375HCPP	2	CHC
	96-523C	2	CHC
97-165B	96-125HCPP	1	CHC
	96-1385CB	10	CHC
	96-500HCPP	4	CHC
	96-697SC	1	CHC
97-166B	96-125HCPP	1	CHC
	96-1385CB	8	CHC
	96-500HCPP	4	CHC
97-167B	96-1385CB	4	CHC
	96-1635CB	2	CHC
97-168B	96-30MMCB	2	GM, ISU
	96-35MMCB	6	GM, ISU
	96-541SC	1	GM, ISU
97-169B	96-30MMCB	9	MAZ
	96-35MMCB	1	MAZ
97-170B	96-25MMCB	2	MAZ
	96-30MMCB	3	MAZ
	96-35MMCB	7	MAZ
97-173B	96-1385CB	4	FOR
	96-1510SCB	8	FOR
	96-697SC	8	FOR
	96-823SC	8	FOR
97-0178B	96-1385SC	3	FOR
	96-30MMCB	6	FOR
97-0195B	96-35MMCB	6	GM
	96-40MMCB	1	GM
97-0202B	96-18MMC	1	ISU
	96-35MMCB	5	ISU
	96-38MMCB	1	ISU
97-0212B	96-250HCPP	3	HON, TOY
	96-35MMCB	8	HON, TOY
	96-375HCPP	3	HON, TOY
	96-50MMCB	1	HON, TOY
97-0214B	96-35MMCB	6	GM, ISU, MIT
97-0216B	96-28MMCB	4	CHC
	96-40MMCB	3	CHC
	96-50MMCB	3	CHC
97-0218B	96-35MMCB	5	GM, ISU
	96-38.5MMC	1	GM, ISU
97-0220B	96-1320SCSS	1	MAZ
	96-35MMCB	3	MAZ
97-0222B	96-30MMCB	6	FOR, MAZ
	96-35MMCB	3	FOR, MAZ

# EXPANSION PLUG KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
<b>97-0224B</b>	96-25MMCB	2	MAZ, NIS
	96-30MMCB	2	MAZ, NIS
	96-35MMC	2	MAZ, NIS
	96-40MMCB	5	MAZ, NIS
<b>97-0226B</b>	96-35MMCB	9	MIT
<b>97-0228B</b>	96-35MMCB	1	NIS
	96-40MMCB	8	NIS
<b>97-0230B</b>	96-30MMCB	12	NIS
<b>97-0236B</b>	96-30MMCB	9	NIS
	96-375HCPP	2	NIS
<b>97-0240B</b>	96-34.3MMCB	1	GM
	96-36.5MMCB	4	GM
<b>97-0242B</b>	96-1010CB	1	GM
	96-125HCPP	1	GM
	96-250HCPT	2	GM
	96-375HCPP	2	GM
<b>97-0244B</b>	96-125HCPP	1	GM
	96-1510CB	6	GM
	96-1953SC	1	GM
	96-250HCPP	1	GM
<b>97-0608B</b>	96-1510CB	6	FOR
	96-2156SC	1	FOR
	96-250-1HCPP	1	FOR
	96-523C	3	FOR
<b>97-0609B</b>	96-760C	1	FOR
	96-1510CB	6	FOR
<b>97-0609B</b>	96-2260SC	1	FOR
	96-375-1HCPP	3	FOR
	96-375HPPS	2	FOR
	96-1760CB	6	FOR
<b>97-0610B</b>	96-2390CRT	1	FOR
	96-250-1HCPP	4	FOR
	96-461C	6	FOR



# O.E. AND COMPETITOR INTERCHANGE

BMW		Chrysler		Chrysler		Chrysler	
11121267578	21-1687-57	1739534	32-672	3187202	10-1047	381875	34-746
11121707152	21-1500-53	1821238	10-514	3189883	36-2011CCI	3830705	10-1329
11121707154	21-1500-53	1828240	22-1516-1	3190810	36-2011CCI	3830710	10-1307
11121711166	21-1625-56	1850079	10-257	3190895	36-2011CCI	3830715	10-1156
11121714183	21-1500-62	1851672	30-1840	3190901	36-2011CCI	3830721	10-1156
11121715252	21-1500-53	1851674	30-1839	3190935	36-2011CCI	3899498	10-1312S
11121715253	21-1500-53	1851767	10-548	3195223	10-1047	3904408	30-8177
11121719784	21-1750-60	1852079	10-257	3202147	30-1819	3904409	30-8178
11121721144	21-1375-55	1852089	10-257	3202148	30-1919	395931	34-743
11341267687	10-10375	1852247	10-185	3204487	30-1919	4006767	36-976
113412708895	10-10373	1852248	10-518	3218732	10-1260	4049338	36-2011CCI
11341287814	10-10374S	1852689	36-2269	3218733	10-1258	4071003	38-1068-70
11341485585	10-13222	1859623	22-1624-1N	3218809	10-1260	4071006	38-1068-70
11341708859	10-10373	1859793	10-577	3218810	10-1260	4095897	36-2089
11341708896	10-10374S	1945318	10-514	3218813	10-1325	4100367	10-1419
11341722908	10-10729	1947231	10-185	3219896	10-1257	4100377	10-1307
11341722909	10-10730S	1947623	10-567	3222276	36-2011CCI	4100382	10-1417
11341727151	10-10730S	1947718	10-1017S	3224597	10-1325	4100387	10-1399
11341738218	10-10695	1947718Z	10-1017S	3224598	10-1326	4100632	10-1401
11341738219	10-10696S	1954291	36-2084	3224602	10-1325	4100774	40-2893
11341739820	10-10695	2071103	34-613	3224603	10-1325	4104402	10-1307
11341739821	10-10696S	208819	10-122	3228192	32-1082	4105348	36-2105
11347513019	10-13222	208821	10-121	3229657	10-1258	4105715	30-7662
11347513020	10-13223	209567	30-1504	3235090	42-1719	4105716	30-7661
11347533884	10-13321	2128829	10-567	3236513	42-1718	4105979	10-1265
11347533885	10-13322	2203250	36-2084	3237464	10-1441	4106028	36-2089
11347547187	10-13325	2205958	38-530-15	3237465	10-1442	4173390	40-2809
11347585901	10-13324	2206103	10-548	3240767	10-1441	4186155	36-2084
11347587470	10-13323	2211432901	30-7576	3240768	10-1442	4201187	30-7662
11347829943	10-13223	2211511050	30-7577	3242393	40-2740	4201188	30-7661
11347829944	10-13223	2211532901	30-7575	3242659	10-1479	4201189	21-1500-63
11347829955	10-13222	2222425000	38-6101-55	3242660	10-1478	4201190	21-1687-51
		2264658	34-613	3242896	10-1478	4201332	38-535-25
		2402312	34-613	33002400	20-1562-1	4201349	34-614
		2402714	10-576	33002429	10-1478	4201391	30-7451N
		24027140	10-1017S	33002729	38-925-25	4201393	10-1449
		2465335	10-938	33002986	74-6335	4227660	36-2089
		2465339	10-1329	33003515	10-1557	4227778	10-1448
		2468038	36-2084	33003521	34-217	4240007	36-2105
		2469501	36-2084	33003575	10-1557+15	4267222	10-10363
		2532149	42-2661	33003860	10-1556	4267224	10-10364S
		2536979	10-576	33004296	32-1278	4298137	10-1553
		2536979	10-1017S	33007142	20-1562-1	4298142	10-1552
		2658204	32-891-D	3418239	36-2011CCI	4315415	10-1675
		2658471	32-869	3418411	36-2011CCI	4315809	10-1712
		2843014	36-2084	3418424	40-2892	4323225	32-1196
		2863439	32-901-D	3418479	10-1156	4323235	36-2269
		2863521	10-1307	3420039	36-2011CCI	4323244	10-1555
		2899036	10-1156	3512095	10-1156	4323249	10-1554
		2899856	36-2011CCI	3549963	10-1186	4382094	20-1562-9
		2899860	36-976	3549967	10-1312S	4387677	36-2269
		2899864	36-976	3549971	10-567	4387682	36-2269
		2899872	36-976	3549975 (PKG)	10-548	4397751	36-2269
		3004643	36-2011CCI	3549979 (PKG)	10-548	4429097	38-535-45
		3004647	36-976	3577836	10-548	4429105	10-1665
		3004718	40-2851	3577943	10-1186	4429109	10-1664
		3004719	40-2850	3577948	10-1180	4429111	22-1722-1
		310458	34-613	3577950	10-1180+15	4429408	30-8177
		3144974	34-555	3614320	36-2011CCI	4429409	30-8178
		3150568	30-1819	3614321	36-2011CCI	4429854	22-1853-1
		3151444	36-2084	3671207	10-1273	4448052	10-1671
		3156155	10-549	3671902	10-1265	4448057	10-1670
		3156156	10-550	3683801	10-1273	4448062	21-1875-54
		3156157	34-766	3744801	10-1312S	4448065	21-1562-74
		3160304	36-2011CCI	3751087	10-1312S	4448072	30-8219
		3172303	36-2011CCI	3751252	36-2011CCI	4448075	34-5027
		3172328	10-549	3751262	36-976	4448152	42-2677
		3180454	36-2011CCI	3751267	36-976	4448305	32-1246
		3180457	32-883	3751622	10-1281	4448305	32-672
		3180609	36-2011CCI	3751673	10-1307	4448996	32-1280
		3182585	10-1048	375994	34-860	4483041	10-1419
		3183979	32-863	3769317	10-1309	4483711	30-7451N

# O.E. AND COMPETITOR INTERCHANGE

Chrysler		Chrysler		Chrysler		Chrysler	
4483714	30-7429N	4892465AA	36-2332	53021571AA	10-1919	AW321739	10-10625
4483725	40-2758	49103419	30-7852	53021580AA	32-2480	J3189833	36-2011CCI
4483859	32-1282	5011441AA	32-04053	53021580AB	32-2480	J3218976	38-938-45
4484408	30-8557	5011441AB	32-04053	53021580AD	32-2480	J3218976	38-921-25
4484421	10-1802	5011877AA	10-2015	53021580AE	32-2480	J3222276	36-2011CCI
4484422	10-1803	5011878AA	34-5020	53021644AA	10-1919	J3224598	10-1326
4494467	36-2269	5011879AA	10-2014	53021644AC	10-13252	J3228192	32-1082
4536513	34-06513	5037372AB	10-13206	53021720AB	36-7102K	J3229657	10-1258
4573380	10-1713	5037373AB	10-13207	53021720AD	36-7102K	J3229657	10-1258
4573507	32-2221	5047068AA	10-13190	53021726AD	36-7103K	J3237464	10-1441
4575380	10-1712	5047068AB	10-13190	53021726AE	36-7103K	J3237465	10-1442
4621116	10-1670	5047069AA	10-13191	53021726BB	36-7103K	J3240767	10-1441
4621530	32-2230	5047069AB	10-13191	53021728AD	36-7104K	J3240768	10-1442
4621762	10-1870	5073735AA	10-2234	53021728AE	36-7104K	J3242659	10-1479
4621938	36-2269	5073738AA	10-2235	53021728BB	36-7104K	J3242664	38-450-25
4637537	10-1556	5080057AA	38-5080-55	53021894AA	36-2271	J3242678	32-1242
4637539	10-1556+15	5086290AA	38-5080-55	53021916AA	10-1919	J3242864	38-925-25
4648613	10-1742	5117399AA	10-2234	53021990AA	10-13251	MD000441	21-1562-50
4648613AC	10-1992	5117399AA	10-13073	53021994AA	32-5023	MD000461	30-7576
4648615	10-1741	5117402AA	10-13074	53022087AA	10-13194	MD000471	30-7577
4648615AC	10-1991	5117410AA	22-1088-1	53022088AB	10-13195	MD000480	10-10076
4648619	38-20-45	5140913AA	10-13161	53022089AD	32-5024	MD000481	10-10083
4648634	32-04019	5175396AA	10-13356	53022090AB	38-812-45	MD000500	32-1123
4648635	30-8555	5175397AA	10-13357	600746	30-1337	MD002465	21-1375-51
4648907AA	32-2230	5175440AA	36-7561	6007461	30-1338	MD002481	10-10083
4663002	38-800-45	5177407AA	22-1160-1	6029497	96-635C	MD002500	32-1123
4663002	38-20-45	5184127AC	10-13263	630356	10-122	MD007783	10-10083
4663345	10-1712	5184128AD	10-13264	630357	10-121	MD008760	34-813
4663347	10-1713	5184128AE	10-13264	637182	10-122	MD016421	21-1437-57
4663722	34-03722	5184168AB	38-9675-45	637183	10-121	MD016441	30-7578
4663801	32-2215	5184332AA	36-7561	638636	32-433	MD016445	30-7589
4663836	10-1901	5203472	21-1687-51	643334	34-555	MD016460	10-10098
4663899	10-1920	5203577	34-237	646421	10-302	MD016461	10-10097
4663902	10-1921	5203789	30-7429N	68002237AA	10-13006	MD016483	34-235
4663985	36-2297	5203792	21-1500-63	68080909AA	32-5024	MD016490A	38-996-55
4667124	10-1730	5214861	10-1449	68080909AB	32-5024	MD020551	30-7574
4667129	10-1731	5214866	10-1448	68098251AA	10-30108	MD020561	30-7575
4667139	40-2702	5240998	30-7852	711045	10-210	MD020580	10-10065
4667140	36-2278	5245590	36-2269	741568	10-121	MD020583	10-10064
4667411	30-8556	53005771	38-803-45	7700713788	10-10130	MD020587	10-10064
4667807	10-1730	53005863	10-1781	7700713790	10-10131S	MD020588	10-10064
4667810	10-1731	53005864	10-1782	7701463081	10-10130	MD022591	32-1125
4667969	10-1730	53006673	30-8494	7701463510	10-10131S	MD024414	21-1750-61
4667969AB	10-2008	53006677	20-1687-5N	800417	32-529	MD024441	21-1500-62
4667972	10-1731	53006722	74-6462	802639	10-303	MD024518	10-10092
4667972AB	10-2008	53006723	10-1714	8122755	10-1260	MD024519	10-10091S
4694185	30-8177	53006724	10-1715	8122756	10-1258	MD024546	21-1625-56
4694222	10-1904	53006986	10-1556	8122761	10-1325	MD024547	21-1625-56
4694224	10-1905	53008288	74-6462	8122929	36-2011CCI	MD024548	10-10091S
4713216	10-1665	53008514	36-2269	8123287	34-766	MD026514	21-1875-51
4713994	10-1664	53009270	10-1556+15	8127694	10-1258	MD026515	21-1875-51
4740269	36-2011CCI	53009886	38-940-45	8132227	10-1438	MD026517	21-1625-56
4777050	34-719	53009887	38-802-45	8132229	10-1437	MD026518	21-1625-56
4777050AB	34-07050	53010388	32-2225	8132232	32-685-D	MD030164	21-1312-53
4777050AC	34-07050	53010512AA	10-1916	8132235	34-555	MD030570	32-1197
4777535	32-04019	53010512AA	34-00515	8134389	10-1438	MD040539	10-10064
4777555	32-04033	53010513AA	10-1917	8134392	10-1437	MD050514	21-1750-66
4777898AA	10-2009	53010515AA	34-00515	8350066	36-2011CCI	MD061895	34-716
4781025AA	10-1993	53020319	10-1714	83500739	10-1395	MD069806	10-10139
4781028AA	32-2234	53020556	32-1248	83500740	10-1395	MD069807	10-10140
4781029AA	10-1994	53020556	32-2225	83500743	10-1394	MD070691	10-10141
4781029AB	10-1994	53020747AB	10-1918	83500766	36-2095	MD070693	10-10142
4781030AA	34-01030	53020748	10-1919	8554	30-8554	MD070694	10-10142
4781588AA	32-2234	53020749AB	32-2482	8933003516	10-1556	MD072177	36-6000
4792215	32-2222	53020749AC	32-2482	8933003575	10-1557+15	MD072298	32-1289
4792216AB	32-2223	53020752AB	38-752-45	8933003576	10-1556+15	MD073398	32-1289
4852361AA	10-2035	53020752AD	38-752-45	8933003860	10-1556	MD074628	10-10136
4852411AA	10-2008	53021056	32-1278	925437	10-210	MD079660	30-7578
4882061	32-02061	53021077	36-2271	930225	30-1900	MD083483	21-1750-69
4882220	30-8219	53021550AA	10-2103	954302	10-185	MD083657	10-10415
4884042AA	40-2702	53021551AA	10-2220	994946	10-302	MD083659	10-10416
4884804AA	32-5003	53021551AB	10-2220	994969	10-302	MD083661	10-10415

# O.E. AND COMPETITOR INTERCHANGE

## Chrysler

MD083662	10-10416
MD083848	10-10145
MD083850	10-10146S
MD083851	10-10146S
MD083887	10-10141
MD085253	10-10143
MD085254	10-10144
MD088811	10-10624
MD088812	10-10625
MD093714	36-6000
MD108465	21-1312-53
MD108468	21-1375-51
MD108471	21-1500-75
MD110451	21-1562-69
MD115472	38-996-55
MD119254	21-1437-63
MD121489	21-1437-68
MD124739	36-900CCI
MD124739	36-2274
MD126605	30-8193
MD126608	30-8194
MD127840	10-10126
MD127841	10-10128
MD128114	21-1562-69
MD128434	10-10495
MD128435	10-10496
MD135479	10-10500
MD135480	10-10501
MD136125	21-1437-59
MD139755	10-10497
MD148418	21-1125-52
MD148420	21-1312-62
MD148422	21-1437-61
MD149309	36-2274
MD149309	36-900CCI
MD151369	34-719
MD151382	36-6000
MD159502	10-10534
MD162422	10-10498
MD162423	10-10499
MD168421	10-10501
MD169831	21-1437-73
MD172315	10-10500
MD172527	30-8554
MD172530	30-8571
MD172535	21-1187-51
MD173621	21-1250-55
MD183893	21-1187-54
MD184303	38-553-55
MD185569	10-10535
MD185850	30-7577
MD188579	21-1250-59
MD189240	21-1250-60
MD191384	21-1375-62
MD193862	21-1437-59
MD197097	10-10535
MD197106	10-10535
MD197467	38-964-55
MD199193	10-10535
MD300702	30-8554
MD301193	10-10534
MD301640	21-1562-69
MD301712	21-1750-61
MD301714	21-1562-69
MD303177	10-10535
MD306183	10-10535
MD307235	30-8569
MD307343	38-996-55
MD324101	30-8193
MM115880	32-1289
MN183950	10-13191
MN187696	10-13190

## Chrysler

T1463081	10-10130
T1463510	10-10131S
T1463944	10-10131S
T1464556	10-10344
T1464557	10-10345S

## Daewoo

12915A78B01	10-03034
642854	10-09830
90215492	10-09815
90324412	10-09830
90354648	34-5021
90410813	10-2040S
90412277	10-10784
90448050	32-2488
96098751	10-09830
96103034	30-3046
96103129	10-2249
96103130	10-2250S
96182805	10-2250S
96182806	10-2249
96182933	10-09830
96182934	10-09815
96184997	36-7021

## DC Gaskets

SS81218	38-962-45
SV8110	38-240-25
SV81110	38-966-55
SV81216	38-988-55
SV81225	38-985-55
SV81226	38-53-45
SV8141	38-830-45
SV81550	38-6117-55
SV81830	38-3995-55
SV8189	38-701-45
SV8242V	38-20-45
SV8242V	38-20-45
SV8250	38-964-55
SV8261	38-803-45
SV8270	38-802-45
SV8271	38-752-45
SV8311	38-565-45
SV8335	38-812-45
SV8357	38-111-45

## Elgin

13161EA2	10-13161
30238	21-1375-56
30648	20-1625-1
30659	20-1750-1
30667	20-1812-4
30679	20-1687-8
30682	20-1875-1
30711	20-1500-1
30790	20-1375-4
30838	20-1562-1
31031	20-1437-2
31031	20-1437-2N
31105	21-1250-58
31600	20-1000-1
31611	21-1187-54
31612	21-1250-63
31616	21-1250-62
31644	21-1437-59
31709	22-1722-1
31734	22-1853-1
32000	20-1875-8
51017U	30-9108U
51019	30-1476
51021	30-1527

## Elgin

51025	30-1338
51027	30-1337
51342	30-1342
51343	30-1504
51609	30-1609
51614	30-1614
51704	30-1704
51732	30-1732
51733	30-1733
51819	30-1819
51825	30-1973
51826	30-1972
51828	30-9208
51838	30-1919
51839	30-1839
51840	30-1840
51900	30-1900
52253	30-7429N
52254	30-7451N
52255	30-7705
52256	30-7822
52257	30-7823
52259	30-9708
52260	30-7578
52261	30-7589
52262	30-7714
52263	30-7713
52264	30-9715
52265	30-9716
52270	30-7852
52271	30-9846
52273	30-7712
52274	30-9460H
52275	30-9964H
52276	30-9977H
52277	30-7661
52278	30-7662
52279	30-6897H
52281	30-9523H
52282	30-9458H
53023	30-3023
53029	30-3029
53031	30-3031
53032	30-3032
53047	30-3047
53053	30-3053
53055	30-3055
53070	30-3070
54404	30-7395
54408	30-7581
54414	30-7577
54414+2	30-7577+2
54415	30-7576
54415+2	30-7576+2
54416	30-7574
54418	30-8226
54426	30-7542
54428	30-7499
54448	30-9205
54452	30-7462
54468	30-7659
54508	30-7535
54510	30-7541
54512	30-7540
54514	30-7534
54518	30-7537
54520	30-7538
54524	30-7523
54536	30-6097
54551	30-7710
54552	30-7828
54553	30-7711

## Elgin

54554	30-8020
54555	30-8021
54556	30-8038
54560	30-7575
54561	30-7826
54562	30-8233
54563	30-7873
54564	30-8017
54566	30-7532
54567	30-7529
55005	30-5607
55006	30-5606
55007	30-5604
55008	30-5609
55009	30-7298
55010	30-6119
55011	30-7554
55012	30-5612
55014	30-6120
55016	30-6110
55017	30-6108
55019	30-6105
55020	30-6869
55021	30-6114
55022	30-6116
55023	30-6115
55024	30-7259
55026	30-6872
55027	30-6867
55031	30-7459
55033	30-7458
55035	30-7197
55035	30-9197
55036	30-6905
55040	30-6977
55041	30-6850
55070	30-6111
55077	30-7198
55102	30-7560
55103	30-6873
55104	30-6523
55107	30-7583
55112	30-7460
55113	30-6113
55116	30-5610
55117	30-6109
55118	30-7946
55119	30-6107
55121	30-8181
556896	30-6896H
556897	30-6897H
559458	30-9458H
559460	30-9460H
559523	30-9523H
559607	30-9607H
559964	30-9964H
559977	30-9977H
56005	30-7272
56006	30-7271
56009	30-7291
56012	30-7552
56016	30-7447
56017	30-7276
56060	30-7279
56105	30-7562
57001	30-6587
57005	30-9607
57005U	30-9607U
57006	30-9606
57007	30-9604
57008	30-9609
57009	30-9298

# O.E. AND COMPETITOR INTERCHANGE

Elgin		Elgin		Elgin		Elgin	
57010	30-9119	57582	30-7825	E1585+3	10-1266+3	E1835	10-1354
57011	30-9554	57583	30-8192	E1585+30	10-1266+30	E1835+15	10-1354+15
57012G	30-9612	57584	30-8190	E1587	10-1358	E1835+3	10-1354+3
57016	30-9110	57585	30-8191	E1587+15	10-1358+15	E1837	10-1361
57017	30-9108	57586	30-8214	E1587+3	10-1358+3	E1839	10-1352
57019	30-9105	57587	30-8215	E1589	10-1329	E1849	10-1326
57020	30-9869	57588	30-8211	E1589K+15	10-1329+15	E1849+15	10-1326+15
57021	30-9114	57589	30-8212	E1611	10-976	E1853	10-1441
57022G	30-9116	57590	30-8209	E1635	10-1332	E1853+15	10-1441+15
57023G	30-9115	57591	30-8143	E1635+15	10-1332+15	E1857	10-1371
57024G	30-9259	57592	30-8195	E1635+3	10-1332+3	E1857+3	10-1371+3
57025G	30-9106	57593	30-8147	E1639	10-970	E1857+30	10-1371+30
57026G	30-9872	57595	30-8201	E1643	10-974	E1859	10-1369
57027G	30-9867	57596	30-8202	E1649	10-919	E1865	10-1419
57040G	30-9977	57597	30-8198	E1651	10-1106	E1871	10-10086
57051G	30-9206	57598	30-8196	E1651+15	10-1106+15	E1875	10-1367
57052	30-8036	57599	30-8208	E1655	10-1153	E1875+3	10-1367+3
57060	30-9260	57600	30-8207	E1669	10-1000	E1877	10-1387
57070	30-9111	57601	30-7830	E1669+15	10-1000+15	E1877+15	10-1387+15
57073	30-8016	57602	30-8189	E1669+3	10-1000+3	E1877+3	10-1387+3
57074G	30-8014	57607	30-9204	E1683	10-1097	E1881	10-1381
57075	30-8015	57609	30-8173	E1685	10-1093	E1881+15	10-1381+15
57076	30-8039	57610	30-8174	E1705	10-1072	E1881+3	10-1381+3
57077G	30-9198	57612	30-8037	E1709	10-1188	E1887	10-1192
57082G	30-8040	57613	30-8140	E1713	10-1189	E1889	10-1394
57102G	30-9560	57614	30-8141	E1715	10-1083	E1889+15	10-1394+15
57103	30-9873	57615	30-7999	E1717	10-1156	E1889+3	10-1394+3
57104	30-9523	57617	30-8158	E1717+15	10-1156+15	E1889+30	10-1394+30
57105	30-9561	57618	30-8157	E1719	10-1312S	E1897	10-1448
57108	30-9459	57619	30-8145	E1721	10-1307	E1901	10-1451
57109	30-7847	57620	30-8146	E1721K+15	10-1307+15	E1905	10-1469
57110	30-9848	57621	30-8203	E1731	10-1102	E1905+15	10-1469+15
57112	30-9460	57623	30-7471	E1731+15	10-1102+15	E1905+3	10-1469+3
57113G	30-9113	57624	30-7473	E1731+3	10-1102+3	E1907	10-1399
57116	30-9610	57625	30-8139	E1761	10-1237	E1907+15	10-1399+15
57117	30-9109	58356	30-7682	E1761+15	10-1237+15	E1909	10-1465
57118	30-9946	58357	30-7681	E1761+3	10-1237+3	E1909+15	10-1465+15
57119	30-9107	58574	30-8574	E1763	10-1171	E1909+3	10-1465+3
57123G	30-8219	58663	30-8663	E1765	10-1169	E1911	10-1437
57124	30-8114	58676	30-8397	E1765+15	10-1169+15	E1911+15	10-1437+15
57125	30-8115	58677	30-8577	E1765+30	10-1169+30	E1911+3	10-1437+3
57126	30-8124	58678	30-8578	E1771	10-1135	E1911+30	10-1437+30
57127	30-8112	58679	30-8579	E1771+15	10-1135+15	E1915	10-1401
57128G	30-8113	58680	30-8255	E1771+3	10-1135+3	E1919	10-1433
57241	30-9191	58693	30-8584	E1772	10-1199	E1923	10-1192
57256G	30-9705	58701	30-9973	E1779	10-1294	E1923+15	10-1192+15
57302G	30-8144	58707	30-8572	E1785	10-1212	E1923+3	10-1192+3
57305G	30-8153	5914	30-1515	E1787	10-1210	E1981+15	10-1419+15
57306G	30-8156	E1077	10-400	E1797	10-1245	E1983	10-1417
57307G	30-8177	E1077+15	10-400+15	E1803	10-1160	E1983+15	10-1417+15
57309G	30-8216	E1077+3	10-400+3	E1805	10-1325	E1983+5	10-1417+5
57310G	30-8218	E1077+30	10-400+30	E1805+15	10-1325+15	E1995	10-1527
57311G	30-8273	E1265	10-520	E1807	10-1257	E1995+15	10-1527+15
57312G	30-8274	E1267	10-518	E1809	10-1292	E1995+3	10-1527+3
57314G	30-8324	E1271	10-185	E1811	10-1318	E2001	10-1542
57315G	30-8388	E1335	10-549	E1813	10-1322	E2003	10-10093
57317G	30-8154	E1335+15	10-549+15	E1813+3	10-1322+3	E2029+15	10-1177+15
57318G	30-8155	E1349	10-1265	E1815	10-1320	E2045	10-1309
57319G	30-8178	E1349+15	10-1265+15	E1815+15	10-1320+15	E2049	10-1389
57321G	30-8217	E1349+3	10-1265+3	E1817	10-1324	E2049+15	10-1389+15
57322G	30-8255	E1349+5	10-1265+5	E1819	10-1271	E2049+3	10-1389+3
57323G	30-8291	E1353	10-564	E1819+15	10-1271+15	E2049+30	10-1389+30
57324G	30-8389	E1355	10-1242	E1819+3	10-1271+3	E2081	10-1463
57452	30-9462	E1355+15	10-1242+15	E1821	10-1597	E2081+3	10-1463+3
57458	30-9557	E1355+3	10-1242+3	E1821+15	10-1597+15	E2083	10-1478
57572	30-8205	E1379	10-1017	E1821+3	10-1597+3	E2083+15	10-1478+15
57574	30-8186	E1539	10-1047	E1827	10-1321	E2083+3	10-1478+3
57574	30-8187	E1567	10-742	E1831	10-1327	E2141	10-1480
57575	30-8172	E1567+15	10-742+15	E1831+15	10-1327+15	E2141+15	10-1480+15
57577	30-8142	E1567+3	10-742+3	E1833	10-1300	E2141+3	10-1480+3
57580	30-8193	E1585	10-1266	E1833+15	10-1300+15	E2143	10-1560
57581	30-8194	E1585+15	10-1266+15	E1833+3	10-1300+3	E2143+15	10-1560+15

# O.E. AND COMPETITOR INTERCHANGE

Elgin		Elgin		Elgin		Elgin	
E2147	10-1554	E2495	10-10414	E3009F	10-10093	E5041	10-10732S
E2149	10-1552	E2497	10-10164	E3037F	10-10237	E5045	10-10795
E2149+15	10-1552+15	E2499	10-10311	E3039F	10-10060S	E5051	10-10696S
E2151	10-1550	E2503	10-10320S	E3053F	10-10116	E5059	10-2010S
E2151+15	10-1550+15	E2509	10-10340	E3055F	10-10006	E5061	10-3044
E2151+3	10-1550+3	E2521	10-10323	E3057F	10-09541	E5063	10-3045
E2159	10-1568	E2531	10-10271	E3059F	10-10364S	E5071	10-2119
E2159+15	10-1568+15	E2545	10-10189	E3061F	10-09599	E5079	10-2035
E2161	10-1558	E2547	10-10338S	E3063F	10-09561	E5081	10-1919
E2163	10-10104	E2553	10-10256	E3065F	10-10256	E5083	10-2009
E2165	10-10146	E2559	10-1281	E3067F	10-10269	E5085	10-2007
E2187	10-10097	E2579	10-10386	E3077F	10-09542	E5087	10-1999
E2189	10-10069	E2633	10-1715	E3173	10-10625	E5089	10-2007
E2193	10-1537	E2633+15	10-1715+15	E3191	10-1786	E5093	10-2180
E2197	10-10106	E2633+3	10-1715+3	E3201	10-1791	E5101	10-10437
E2199	10-10330	E2637	10-1664	E3223	10-1735	E5105	10-10781
E2215	10-10142	E2655	10-10435	E3401	10-10437	E5109	10-2173
E2217	10-1556	E2661	10-10437	E3403	10-2040S	E5111	10-3003
E2217+15	10-1556+15	E2669	10-10557S	E3405	10-2040S	E5115	10-03005
E2217+3	10-1556+3	E2681	10-1704	E3407	10-1731	E5117	10-3103
E2225	10-1578S	E2683	10-1702	E3409	10-1905	E5121	10-2176
E2237	10-1397	E2689	10-1807	E3411	10-1670	E5123	10-10779
E2241	10-1545	E2695	10-10173	E3413	10-1742	E5125	10-10252
E2241+15	10-1545+15	E2697	10-10517	E3415	10-1746	E5127	10-2182S
E2247	10-1504	E2705	10-10285S	E3419	10-1936	E5128	10-2014
E2247+15	10-1504+15	E2713	10-10225	E3421	10-1729	E5129	10-2178S
E2247+3	10-1504+3	E2715	10-10229	E3423	10-1788	E5131	10-10799
E2265	10-1727	E2735	10-10138	E3425	10-10551	E5139	10-2015
E2275	10-10116	E2739	10-10507	E3427	10-1744	E5165	10-2195
E2279	10-10155	E2743	10-10519	E3427+15	10-1744+15	E5169	10-10807
E2281	10-10153	E2745	10-10166	E3427+3	10-1744+3	E5171	10-2220
E2283	10-1535	E2749	10-10680	E3431	10-1914	E5175	10-03034
E2285	10-10386	E2751	10-10474	E3437	10-1754	E5177	10-03036
E2285+15	10-10386+15	E2759	10-10525	E3439	10-1925	E5179	10-2246
E2317	10-1710	E2761	10-10542	E3441	10-1937	E5181	10-2193
E2317+15	10-1710+15	E2765	10-10207	E3445	10-1935	E5183	10-2265
E2334	10-09830	E2767	10-10198	E3447	10-2045	E5185	10-2248S
E2359	10-1547	E2769	10-1706	E3449	10-1903	E5191	10-10809
E2397	10-1591	E2771	10-10521	E3455	10-10741S	E5195	10-13046
E2397+15	10-1591+15	E2773	10-10523	E3461	10-10740	E5197	10-10815
E2397+3	10-1591+3	E2781	10-10217	E3463	10-10813	E5199	10-2235
E2415	10-10168S	E2785	10-1803	E3465	10-10549	E5203	10-2240
E2419+15	10-1537+15	E2787	10-1713	E3467	10-10817	E5205	10-13335
E2419+3	10-1537+3	E2787	10-10548	E3467	10-10724	E5209	10-3075
E2421	10-1698	E2793	10-1782	E3469	10-10795	E5211	10-3187
E2421+15	10-1698+15	E2809	10-10503	E3471	10-10282	E5213	10-13038
E2421+3	10-1698+3	E2823	10-10170	E3477	10-2040S	E5215	10-13042
E2425	10-10235	E2829	10-10513	E3481	10-10166	E5217	10-13044
E2427	10-10388	E2831	10-10159	E3483	10-10738S	E5227	10-13087
E2427+15	10-10388+15	E2839	10-10551	E3489	10-10536	E5231	10-13183
E2427+3	10-10388+3	E2841	10-10563	E3491	10-10538	E5233	10-13191
E2429	10-10148	E2843	10-1708	E3493	10-10282	E5235	10-13195
E2431	10-10128	E2849	10-1877	E3495	10-10787S	E5237	10-03032
E2433	10-1670	E2859	10-10515	E3499	10-10736	E5239	10-13207
E2435	10-10140	E2863	10-10497	E3501	10-10420	E5245	10-3003I
E2437	10-10144	E2865	10-10499	E3505	10-10553S	E5245	10-3003
E2443	10-1675	E2867	10-10501	E3507	10-10738S	E5247	10-3081
E2443+15	10-1675+15	E2869	10-10535	E3511	10-30127	E5249	10-13212
E2443+5	10-1675+5	E2883	10-10355S	E3543	10-1811	E5251	10-13226
E2447	10-1674	E2885	10-1737	E4214	10-10083	E5253	10-13252
E2451	10-10177	E2885+15	10-1737+15	E4218	10-10064	E5257	10-1935S
E2453	10-10315	E2885+3	10-1737+3	E4291	10-10191	E5259	10-13230
E2455	10-10183	E2892+15	10-1736+15	E4322	10-10308	E5267	10-13216
E2457	10-1593	E2905	10-10513	E455	10-919	E5269	10-13198
E2457+15	10-1593+15	E2917	10-1192	E5000	10-1921	E5273	10-13264
E2469	10-10163	E2925	10-1675	E5015	10-1735	E5275	10-13277
E2471	10-10246S	E2931	10-1758	E5017	10-1919	E5283	10-13191
E2473	10-10244	E2933	10-10416	E5019	10-1917	E5285	10-13266
E2475	10-10237	E2939	10-10413	E5021	10-1992	E5287	10-13295
E2489	10-10300	E2949	10-1153	E5023	10-1994	E5289	10-13289
E2491	10-10191	E3005F	10-10220S	E5025	10-2047	E5291	10-13287
E2493	10-10196	E3007F	10-10221S	E5027	10-2054	E609	10-09541

# O.E. AND COMPETITOR INTERCHANGE

Elgin		Elgin		Elgin		Elgin	
E625	10-10071	EX2247	10-1504S	HL2012	36-2012	11476	10-696
E629	10-10024S	EX2263	10-10131S	HL2056	36-2056	11476+15	10-696+15
E643	10-10006	EX2307	10-1542S	HL2077	36-969	11476+3	10-696+3
E713	10-212	EX2467	10-10346S	HL2083	36-2083	11476+30	10-696+30
E769	10-257	EX2471	10-10246S	HL2089	36-2089	11538	10-1048
E781	10-121	EX2501	10-10326S	HL2095	36-2095	11584	10-1268
E785	10-303	EX2503	10-10320S	HL2105	36-2105	11584+15	10-1268+15
E843	10-210	EX2507	10-10333	HL2148	36-2148	11586	10-963
E903	10-2248S	EX2513	10-10267	HL2198	36-2198	11586+15	10-963+15
E911	10-375	EX2515	10-10274S	HL2201	36-2104	11586+3	10-963+3
E911+15	10-375+15	EX2517	10-10282S	HL2205	36-2205	11588	10-938
E911+3	10-375+3	EX2525	10-10278S	HL2217	36-2217	11588+15	10-938+15
E911+30	10-375+30	EX2533	10-10193	HL2236	36-2236	11588+5	10-938+5
E9538	10-09538	EX2543	10-10356S	HL2254	36-2254	11610	10-958
E9832	10-09832	EX2545	10-10189	HL2255	36-2273	11612	10-975
EC1165	10-257	EX2547	10-10338S	HL2269	36-2269	11625+15	10-947+15
EC1217	10-375	EX2549	10-10258	HL2270	36-2270	11628	10-947
EC1379	10-576	EX2575	10-10356S	HL2278	36-2278	11628+3	10-947+3
EC1879	10-1383C	EX2581	10-10252	HL2280	36-7005	11634	10-1120
EC1979	10-1241C	EX2669	10-10557S	HL2332	36-2332	11634+15	10-1120+15
EC3263	10-1832C	EX2673	10-10734S	HL6000	36-6000	11634+3	10-1120+3
EHC206	34-281	EX2679	10-1780S	HL6005	36-6005	11636	10-949
EHC227	34-235	EX2689	10-1807S	HL7000	36-2271	11636+15	10-949+15
EHC227	34-234	EX2695	10-10173S	HL7002	36-2244	11640	10-969
EHC2779	34-5008	EX2701	10-10304	HL7003	36-2279	11644	10-1457
EHC2781	34-5018	EX2705	10-10285S	HL7005	36-2297	11644+3	10-1457+3
EHC2783	34-5005	EX2711	10-10227S	HL7006	36-7078	11650	10-988
EHC2785	34-719	EX2733	10-03008	HL7007	36-7082	11652	10-1107
EHC2795	34-03722	EX2741	10-10553S	HL7008	36-2305	11652+15	10-1107+15
EHC2816	34-5024	EX2747	10-10306S	HL7009	36-2296	11654	10-1164
EHC555	34-555	EX2777	10-10100S	HL7011	36-2303	11656	10-997
EHC613	34-613	EX2791	10-10260S	HL7012	36-2305	11656+15	10-997+15
EHC614	34-614	EX2795	10-10262S	HL7013K	36-7102K	11656+3	10-997+3
EHC716	34-716	EX2799	10-10221S	HL7014K	36-7104K	11662	10-1002
EHC746	34-746	EX2803	10-10276S	HL7015K	36-7103K	11670	10-1001
EHC766	34-766	EX2821	10-10102S	HL7016	36-7105	11670+15	10-1001+15
EOS9049	38-354-45	EX2853	10-10369S	HL7017	36-7561	11670+3	10-1001+3
EOS9134	38-160-55	EX2881	10-10342S	HL9001	36-2274	11682	10-1098
EOS9142	38-6105-55	EX2891	10-10286S	HL9002	36-2276	11706	10-1170
EOS9150	38-6125-55	EX2913	10-10220S	HL9003	36-2272	11708	10-1082
EOS9155	38-46-45	EX2919	10-1235S	HL9007	36-2284	11712	10-1105
EOS9166	38-6129-55	EX2937	10-10187S	HL9009	36-2285	11714	10-1084
EX1303	10-1346S	EX3517	10-1698S	HL9010	36-2286	11730	10-1103
EX1379	10-1017S	EX3519	10-1939S	HL9021	36-7076	11730+15	10-1103+15
EX1379+5	10-1017S+5	EX3525	10-10734S	HL9022	36-7075	11730+3	10-1103+3
EX1471	10-210	EX3527	10-10787S	HL9027	36-7085	11732	10-1137
EX1633	10-965S	EX3529	10-10370S	HL9028	36-7089	11732+15	10-1137+15
EX1633+15	10-965S+15	EX3531	10-10730S	I1052	10-349	11732+3	10-1137+3
EX1637	10-917	EX477	10-1294S	I1052+15	10-349+15	11750	10-1087
EX1651	10-1261S	EX5033	10-10280S	I1078	10-399	11760	10-1238
EX1655	10-996S	EX5035	10-10374S	I1078+15	10-399+15	11760+15	10-1238+15
EX1655+15	10-996S+15	EX5041	10-10732S	I1078+3	10-399+3	11762	10-1172
EX1655+30	10-996S+30	EX5047	10-10793S	I1078+30	10-399+30	11764+15	10-1170+15
EX1719	10-1312S	EX5051	10-10696S	I1222	10-494	11764+3	10-1170+3
EX1779	10-1294S	EX5057	10-2126S	I266	10-514	11764+30	10-1170+30
EX1863	10-10060S	EX5073	10-10803S	I1316K	10-548	11773	10-1200
EX1879	10-1383C	EX5173	10-10806S	I1316K+15	10-548+15	11776	10-1186
EX1899	10-10091S	EX5201	10-2178S	I1336	10-550	11778	10-1180
EX1913	10-10006	EX631	10-10037	I1336+15	10-550+15	11778+15	10-1180+15
EX2005	10-1483S	EX633	10-10036S	I1350	10-567	11778+3	10-1180+3
EX2029	10-1177S	EX635	10-10033S	I1350+15	10-567+15	11778K+5	10-1180+5
EX2099	10-10364S	EX733	10-185	I1352	10-577	11800	10-1161
EX2101	10-1482S	EX785	10-303	I1352+5	10-577+5	11804	10-1260
EX2123	10-1504S	EX867	10-1206S	I1416	10-627	11804+15	10-1260+15
EX2169	10-10302	EX901	10-2250S	I1416+3	10-627+3	11806	10-1258
EX2203	10-10269	EX903	10-2248S	I1418	10-637	11806+15	10-1258+15
EX2203+15	10-10269+15	HL1817	36-817CCI	I1418+15	10-637+15	11806+3	10-1258+3
EX2203+3	10-10269+3	HL1900	36-900CCI	I1418+3	10-637+3	11808	10-1293
EX2207	10-10080S	HL1951	36-951	I1418+5	10-637+5	11812	10-1323
EX2209	10-10113S	HL1969	36-969	I1436	10-1057	11814	10-1598
EX2227	10-1646S	HL2010	36-7116	I1436+15	10-1057+15	11814+15	10-1598+15
EX2235	10-1485S	HL2011	36-2011CCI	I1436+3	10-1057+3	11814+3	10-1598+3

# O.E. AND COMPETITOR INTERCHANGE

Elgin		Elgin		Elgin		Elgin	
I1816	10-1285	I2006	10-1484	I2390	10-10234	I2754	10-10526
I1816+3	10-1285+3	I2038	10-1569	I2394	10-10387	I2756	10-10524
I1818	10-1263	I2038+15	10-1569+15	I2396	10-10147	I2758	10-10541
I1818+15	10-1263+15	I2040	10-1559	I2398	10-10136	I2760	10-10432
I1818+3	10-1263+3	I2042	10-10105	I2400	10-10126	I2764	10-10206
I1820	10-1272	I2044	10-10145	I2402	10-1671	I2768	10-1707
I1820+15	10-1272+15	I2046	10-10103	I2404	10-10139	I2772	10-10520
I1820+3	10-1272+3	I2052	10-10107	I2406	10-10314	I2774	10-10522
I1822	10-1362	I2058+15	10-1538+15	I2408	10-10143	I2780	10-10259
I1822+15	10-1362+15	I2060	10-1557	I2410	10-10344	I2784	10-1802
I1830	10-1328	I2060+15	10-1557+15	I2412	10-10176	I2792	10-1781
I1830+15	10-1328+15	I2060+3	10-1557+3	I2416	10-1673	I2802	10-10219
I1830+3	10-1328+3	I2060+30	10-1557+30	I2418	10-1594	I2804	10-10502
I1836	10-1357	I2076	10-1195	I2418+15	10-1594+15	I2808	10-10213
I1836+15	10-1357+15	I2076+15	10-1195+15	I2420	10-10182	I2816	10-10275
I1836+3	10-1357+3	I2076+3	10-1195+3	I2432	10-10247	I2818	10-10169
I1836+30	10-1357+30	I2080	10-1464	I2434	10-10243	I2824	10-10154
I1840	10-1348	I2080+15	10-1464+15	I2436	10-10236	I2826	10-10157
I1852	10-1442	I2080+3	10-1464+3	I2450	10-10299	I2832	10-10216
I1852+15	10-1442+15	I2082	10-1479	I2452	10-10190	I2834	10-10550
I1856	10-1372	I2082+3	10-1479+3	I2454	10-10195	I2836	10-10562
I1856+15	10-1372+15	I2098	10-10363	I2464	10-10322	I2838	10-1709
I1858	10-1370	I2112	10-10117	I2466	10-10273	I2844	10-1701
I1862	10-10061	I2114	10-1536	I2468	10-10270	I2852	10-10334
I1870	10-10087	I2114+15	10-1536+15	I2470	10-10263	I2854	10-10514
I1874	10-1380	I2114+3	10-1536+3	I2482	10-10272	I2858	10-10495
I1874+15	10-1380+15	I2124	10-1505	I2484	10-10277	I2860	10-10534
I1874+3	10-1380+3	I2124+15	10-1505+15	I2488	10-10281	I2864	10-10500
I1876	10-1388	I2124+3	10-1505+3	I2496	10-10307	I2880	10-10496
I1876+15	10-1388+15	I2138	10-1481	I2500	10-10188	I2884	10-10218
I1876+3	10-1388+3	I2138+15	10-1481+15	I2510	10-10318	I2888	10-10325
I1880	10-1382	I2138+3	10-1481+3	I2512	10-10309	I2890	10-10353S
I1880+15	10-1382+15	I2140	10-1561	I2516	10-10015	I2892	10-1736
I1880+3	10-1382+3	I2140+15	10-1561+15	I2518	10-10255	I2892+3	10-1736+3
I1888	10-1395	I2144	10-1555	I2536	10-10310	I2896	10-10367
I1888+15	10-1395+15	I2146	10-1553	I2538	10-10192	I2900	10-10512
I1888+3	10-1395+3	I2148	10-1551	I2542	10-10251	I2904	10-10498
I1896	10-1449	I2148+15	10-1551+15	I2584	10-10387	I2912	10-1296
I1896+15	10-1449+15	I2148+3	10-1551+3	I2584+15	10-10387+15	I2924	10-10415
I1898	10-10092	I2152	10-10385	I2584+3	10-10387+3	I2928	10-10186
I1900	10-1452	I2152+15	10-10385+15	I2590	10-1757	I2938	10-1194
I1900+3	10-1452+3	I2152+3	10-10385+3	I2602	10-1714	I2952	10-1931
I1902	10-1450	I2154	10-10118	I2602+15	10-1714+15	I2976	10-10624
I1902+15	10-1450+15	I2158	10-10130	I2602+3	10-1714+3	I3002	10-10070
I1902+3	10-1450+3	I2186	10-10098	I2604	10-1665	I3004F	10-10218
I1904	10-1470	I2192	10-1538	I2654	10-10434	I3006F	10-10219
I1904+15	10-1470+15	I2192+3	10-1538+3	I2656	10-10122	I3008F	10-10094
I1906	10-1416	I2198	10-10328	I2660	10-10197	I3020	10-10375
I1906+15	10-1416+15	I2202	10-10268	I2662	10-10436	I3038F	10-10236
I1908	10-1466	I2208	10-10112	I2670	10-1712	I3040F	10-10061
I1908+15	10-1466+15	I2210	10-10115	I2670+15	10-1712+15	I3052F	10-10213
I1908+3	10-1466+3	I2212	10-10082	I2680	10-1703	I3054F	10-10007
I1910	10-1438	I2214	10-10406	I2682	10-1195	I3058F	10-10363
I1910+15	10-1438+15	I2216	10-10141	I2684	10-1705	I3060F	10-09560
I1910+3	10-1438+3	I2228	10-1726	I2690	10-1806	I3064F	10-10255
I1910+30	10-1438+30	I2236	10-1486	I2692	10-1931	I3066F	10-10268
I1920	10-1434	I2240	10-1546	I2694	10-10172	I3080F	10-10358S
I1920+15	10-1434+15	I2240+15	10-1546+15	I2696	10-10516	I3122	10-1273
I1920+3	10-1434+3	I2274	10-1711	I2704	10-10257	I3166	10-1792
I1922	10-1393	I2274+3	10-1711+3	I2706	10-10226	I3168	10-1723
I1922+15	10-1393+15	I2284	10-1548	I2708	10-10228	I3188	10-1785
I1922+3	10-1393+3	I2284	10-1701	I2710	10-10224	I3200	10-1789
I1924	10-1193	I2284+15	10-1548+15	I2724	10-10284	I3214	10-1858
I1924+15	10-1193+15	I2331	10-09815	I2732	10-10137	I3400	10-10436
I1924+3	10-1193+3	I2344+15	10-1486+15	I2736	10-10506	I3402	10-10733
I1968	10-1598	I2366	10-1592	I2738	10-10552	I3404	10-10784
I1994	10-1528	I2366+15	10-1592+15	I2740	10-10518	I3406	10-1730
I1994+15	10-1528+15	I2382	10-10167	I2742	10-10165	I3408	10-1901
I1994+3	10-1528+3	I2386	10-10162	I2744	10-10305	I3410	10-1904
I1998	10-1543	I2388	10-1699	I2746	10-10679	I3412	10-1671
I2002	10-10094	I2388+15	10-1699+15	I2748	10-10473	I3414	10-1741
I2004	10-1518	I2388+3	10-1699+3	I2752	10-03007	I3418	10-1745

# O.E. AND COMPETITOR INTERCHANGE

Elgin		Elgin		Elgin		Elgin	
I3420	10-2044	I5120	10-2177	IX1878	10-1384S	R738	40-2738
I3422	10-2044	I5122	10-10798	IX1976	10-1386S	R740	40-2740
I3424	10-1728	I5152	10-10729	IX2284	10-1548S	R754	40-2754
I3426	10-1787	I5154	10-2194	IX2284+3	10-1548S+3	R755	40-2755
I3428	10-1790	I5158	10-10806	IX2460	10-10324S	R758	40-2758
I3430	10-10550	I5160	10-2103	IX2472	10-10266	R809	40-2809
I3432	10-1938	I5164	10-2249	IX2474	10-10339S	R810	40-2810
I3434	10-1743	I5166	10-2245	IX2476	10-10332S	R813	40-2813
I3438	10-1913	I5168	10-2192	IX2504	10-10358S	R814	40-2814
I3440	10-10387	I5170	10-2247	IX2506	10-10350S	R840	40-2840
I3442	10-1924	I5172	10-03033	IX2514	10-10337	R840SP	40-2841
I3444	10-1941	I5174	10-10816	IX2672	10-10556	R842	40-2842
I3446	10-1929	I5176	10-10808	IX2674	10-10733	R844	40-2844
I3448	10-1739	I5180	10-03035	IX2676	10-10158S	R849	40-2849
I3452	10-1934	I5182	10-10814	IX2778	10-10101S	R850	40-2850
I3456	10-1902	I5184	10-2234	IX3516	10-1699S	R851	40-2851
I3458	10-10524	I5186	10-2076	IX5070	10-10804S	R859	40-2859
I3460	10-10195	I5188	10-3190	PR105	74-6105	R864	40-2864
I3464	10-10739	I5190	10-2241	PR157	74-5157	R864	40-2864
I3466	10-10547	I5192	10-3074	PR230	74-6230	R867	40-2867
I3468	10-10812	I5192	10-3074	PR230A	74-6231	R868	40-2868
I3470	10-10723	I5198	10-13179	PR274	74-6274	R876	40-2876
I3478	10-10784	I5200	10-13334	PR279	74-6279	R886	40-2886
I3492	10-10537	I5204	10-13039	PR281	74-6281	R888	40-2888
I3494	10-10281	I5206	10-13240	PR306	74-6306	R889	40-2889
I3498	10-10735	I5208	10-13043	PR310	74-6310	R890	40-2890
I3500	10-10321	I5210	10-3186	PR311	74-5311	R891	40-2891
I3502	10-10421	I5222	10-13086	PR312	74-5312	R892	40-2892
I3504	10-10518	I5226	10-13182	PR317	74-6317	R893	40-2893
I3508	10-10737	I5228	10-13190	PR321	74-6321	R900	40-2900
I3512	10-30126	I5230	10-13194	PR323	74-6323	R9106	40-9106
I3520	10-10351	I5232	10-03031	PR324	74-6324	R9111	40-9111
I3522	10-10742	I5234	10-13206	PR335A	74-6335	R930	40-2930
I3532	10-1810	I5240	10-3080	PR342	74-6342	RDS677	42-2677
I3532+15	10-1810+15	I5242	10-13211	PR346	74-6346	RDS920	42-2920
I4026	10-10076	I5244	10-13225	PR34B	74-6034	RDS921	42-2921
I4028	10-10065	I5246	10-13251	PR353	74-6353	RDS934	42-2934
I408	10-1195	I5248	10-13244	PR363	74-6363	RDS940	42-2940
I408+15	10-1195+15	I5250	10-13240	PR366	74-6366	RDS941	42-2941
I5001	10-1920	I5252	10-13239	PR373	74-6373	RDS948	42-2948
I5016	10-1918	I5260	10-13215	PR379	74-6230	RDS971	42-2971
I5018	10-1916	I5262	10-13197	PR380	74-6380	RK1736	41-1736
I5020	10-1991	I5268	10-2267	PR385	74-6385	RK1736	41-1736
I5024	10-2046	I5270	10-13263	PR441	74-6441	RK1737	41-1737
I5026	10-2053	I5272	10-13276	PR442	74-6442	RK401	41-2401
I5032	10-10279	I5280	10-13190	PR443	74-6443	RK402	41-2402
I5034	10-10373	I5286	10-13265	PR445	74-6445	RK407	41-2407
I5038	10-10695	I5288	10-13294	PR454	74-6231	RK501	41-2501
I5040	10-10731	I5290	10-1997	PR458	74-6458	RK504	41-2504
I5046	10-10792	I5292	10-13288	PR462	74-6462	RK507	41-2507
I5058	10-2101	I5294	10-13286	PR471	74-5471	RK508	41-2508
I5060	10-1997	I608	10-09540	PR474	74-6474	RK508SP	41-2509
I5062	10-3043	I626	10-10072	PR475	74-6475	RK545	41-2547
I5064	10-3046	I630	10-10018	PR608	74-6608	RK547	41-2547
I5068	10-2118	I632	10-10048	PR609	74-6609	RK548	41-2548
I5070	10-10804S	I636	10-10031	PR611	74-6611	RK5542	41-2554
I5074	10-2008	I638	10-10056	PR614	74-6614	RK600	41-2600
I5080	10-1993	I644	10-10007	PR615	74-6615	RK610	41-2610
I5082	10-2008	I767	10-298	PR638	74-6638	RK611	41-2611
I5084	10-2006	I782	10-122	PR639	74-6639	RK673	41-2673
I5086	10-1998	I786	10-302	PR652	74-6652	RK738	41-2738
I5090	10-2006	I842	10-211	PR653	74-6653	RM1702	42-1702
I5092	10-2179	I868	10-308	PR662	74-6662	RM1704	42-1704
I5098	10-10780	I914	10-376	PR80	74-6080	RM1718	42-1718
I5100	10-1949	I920	10-373	R1807	40-1807	RM1719	42-1719
I5102	10-2172	I920+15	10-373+15	R1840	40-1840	RM1720	42-1720
I5104	10-10786	I920+30	10-373+30	R1840R	40-1841	RM1721	42-1721
I5106	10-3002	I9536	10-09536	R1840SP	40-1842	RM1724	42-1724
I5110	10-03004	I9536+15	10-09536+15	R702	40-2702	RM1731	42-1731
I5112	10-3102	I9536+3	10-09536+3	R710	40-2710	RM1740	42-1740
I5116	10-10778	IX1436	10-1057S	R736	40-2736	RM1741	42-1741
I5118	10-2181	IX1842	10-1349S	R737	40-2737	RM1771	42-1771



# O.E. AND COMPETITOR INTERCHANGE

Elgin		Felpro		Felpro		Ford	
RM1772	42-1772	SS70598	38-964-55	SS72729	38-921-25	3L3Z6057BA	22-1345-1
RM1776	42-1776	SS70654	38-840-45	SS72782	38-520-45	3L3Z6057BBA	22-1501-1
RM1783	42-1783	SS70702	38-925-25	SS72783	38-535-45	3L3Z6500BA	36-2305
RM1786	42-1786	SS70710	38-964-55	SS72793	38-964-55	3L3Z6507BA	10-2118
RM1791	42-1791	SS70731	38-231-25	SS72799	38-843-45	3L3Z6510AA	30-3047
RM1792	42-1792	SS70809	38-588-45	SS72800	38-53-45	3L3Z6510BA	30-3047
RM1793	42-1793	SS70816	38-535-45	SS72802	38-998-45	3L3Z6513BA	32-04029
RM1797	42-1797	SS70819	38-535-45	SS728021	38-998-45	3L3Z6564BA	40-2930
RM1861	42-1861	SS70829	38-031-45	SS728071	38-247-45	3L3Z6571DA	38-905-45
RS641	42-2641	SS70861	38-250-35	SS72819	38-997-45	3M4Z6513AA	32-04062
RS648	42-2701	SS70861	38-925-25	SS72821	38-994-55	3M4Z6513BA	32-04062
RS661	42-2661	SS71152	38-910-25	SS72829	38-569-45	3S4Z6505AA	10-2007
RS701	42-2701	SS72504	38-2006-25	SS72831	38-520-45	3S4Z6507AA	10-2006
RS9070	42-2070	SS72513	38-921-25	SS72832	38-537-45	3S4Z6571AA	38-6105-55
RV3518	32-04059	SS725142	38-950-25	SS72837	38-520-45	4C3Z6505AA	10-2119
RV3598	32-04046	SS725143	38-950-25	SS72839	38-938-45	4R3Z6513BA	32-04029
RV3606	32-04062	SS72522	38-535-45	SS728391	38-938-45	523Z855	36-900CCI
RV3619	32-5009	SS72524	38-996-55	SS72841	38-480-45	5750692	36-2083
RV3634	32-5023	SS72525	38-450-45	SS72842	38-20-45	5751554	10-494
RV3657	32-5015	SS72526	38-240-15	SS72850	38-111-45	5751559	10-373
VT1872	36-872	SS72527	38-450-45	SS72850	38-111-45	5L1Z6500AA	36-2305
VT1992	36-992	SS72528	38-938-45	SS72851	38-031-45	5L1Z6505AA	10-2265
VT2032	36-2032	SS72536	38-3995-55	SS72852	38-322-45	5L1Z6505BA	10-2265
VT2084	36-2084	SS72564	38-823-45	SS72861	38-371-45	70HM6505D2C	10-1199
VT6003	36-6003	SS72567	38-3995-55	SS728611	38-371-45	70HM6505D2E	10-1199
VT6024	36-2277	SS725671	38-3995-55	SS72862	38-827-45	70HM6507D3C	10-1200
VT6054	36-2299	SS725681	38-925-25	SS72867	38-585-45	73TM6507LA	10-1285
<b>Federal-Mogul Europe</b>		SS72608	38-3995-55	SS72869	38-967-55	74TM6505A2A	10-1300
ST2003	38-4788-35	SS72616	38-766-25	SS72871	38-20-45	74TM6505A2B	10-1300
VK294	34-5020	SS726161	38-766-25	SS728711	38-20-45	74TM6505AB	10-1300
VS1659	32-04046	SS72617	38-961-55	SS72875	38-309-45	7F1Z6513FA	32-2476
VS957	32-04034	SS72617	38-812-45	SS728751	38-309-45	7HA6510A	30-1613
X4251	10-1329	SS72619	38-812-45	SS72878	38-310-55	7HA6518A	34-555
<b>Felpro</b>		SS72621	38-962-45	SS72888	38-46-45	7T4Z6505A	10-13226
SS11836	38-713-15	SS72622	38-255-35	SS72888	38-46-45	7T4Z6507B	10-13225
SS12764	38-780-25	SS72623	38-925-25	<b>Ford</b>		7T4Z6513AA	32-5009
SS13324	38-255-35	SS72628	38-828-45	11448522	10-1285	7T4Z6517AA	38-6125-55
SS13360	38-951-25	SS726281	38-921-25	11448522	10-1285	83TM6505AA	10-1300
SS13364	38-530-25	SS726281	38-828-45	11448894	10-1300	83TM6507AA	10-1285
SS133641	38-915-25	SS726282	38-844-45	13212V5010	30-8388	85TM6500AA	36-2083
SS13399	38-2006-25	SS72629	38-962-45	13213V5010	30-8017	86TM6505AD	10-10386
SS133991	38-2006-25	SS72630	38-925-25	13213V5010	30-8389	86TM6507FA	10-10385
SS13401	38-905-25	SS72646	38-223-55	1550925	36-2012	8BA6505A	10-212
SS13807	38-911-25	SS72656	38-520-45	1F2Z6571AA	38-224-45	8BA6505A2	10-212
SS138071	38-911-25	SS726561	38-520-45	1S4Z6507A	10-30124	8BA6510	30-1614
SS13955	38-530-25	SS726562	38-520-45	1S4Z6571AA	38-840-45	8C3Z6505A	10-13183
SS27149	38-962-45	SS72657	38-961-55	1S7Z6505AA	10-2007	8C3Z6507A	10-13182
SS27179	38-240-15	SS72667	38-938-45	1S7Z6507AA	10-2006	8C3Z6565B	74-6662
SS27276	38-3995-55	SS72668	38-255-35	1S7Z6513AA	32-04059	8C3Z9N951A	87-6951
SS27283	38-961-55	SS72668	38-535-45	1S7Z6518AA	34-5024	90TM6505AB	10-10388
SS27415	38-962-45	SS72675	38-700-45	1S7Z6571FA	38-6105-55	90TM6507AB	10-10387
SS27416	38-951-25	SS726751	38-700-45	1W4Z6505AA	10-2246	948M6505L2C	10-1746
SS27503	38-971-45	SS72678	38-980-45	1W4Z6507AA	10-2245	948M6505L2E	10-1746
SS27504	38-971-45	SS72680	38-997-45	2L2Z6505BA	10-1914	948M6507L2C	10-1745
SS27506	38-966-55	SS726801	38-997-45	2L2Z6507BA	10-1913	978B6507A2A	10-1745
SS70014	38-253-45	SS72683	38-805-45	2L2Z6513AA	32-2302	97JM6C501AB	36-7005
SS70037	38-925-25	SS72684	38-819-45	2M5Z6505AA	10-3039	97MM6507B2B	10-03004
SS70038	38-982-25	SS72684	38-821-45	2M5Z6507AA	10-3040	A7AZ6507A	10-1538
SS70070	38-938-45	SS72685	38-830-45	2S7Z6513A	32-2476	AA5Z6505A	10-13345S
SS700921	38-921-25	SS72686	38-812-45	30523090	30-9557	AA5Z6513A	32-5019
SS70157	38-994-55	SS72687	38-921-25	385658	42-1740	AL3Z6505A	10-13289
SS70287	38-827-45	SS72698	38-824-45	388480	42-1741	AL3Z6507A	10-13288
SS70310	38-961-55	SS72700	38-938-45	3C3Z6500AA	36-2104	AL3Z6513A	32-5016
SS703101	38-961-55	SS72702	38-921-25	3C3Z6505AA	10-2180	AL3Z6571A	38-6127-55
SS70359	38-20-45	SS72704	38-964-55	3C3Z6507AA	10-2179	AL3Z6571AA	38-6127-55
SS70373	38-938-45	SS72708	38-108-45	3C3Z6513AA	32-04040	AT4Z6505A	10-13226
SS70393	38-923-35	SS72710	38-701-45	3C3Z6514AA	55-6328	AT4Z6513A	32-5009
SS703931	38-923-35	SS72711	38-552-45	3C3Z6518AA	34-5009	B4A6507A	10-376
SS70537	38-928-25	SS72712	38-520-45	3C3Z6571AA	38-160-55	B506500A	36-2083
		SS72721	38-520-45	3C3Z9F538AA	87-8320	B5A6056A	20-1875-6
		SS72722	38-520-45			B6A6057A	20-1562-1N
						B7T6507A	10-494

# O.E. AND COMPETITOR INTERCHANGE

Ford		Ford		Ford		Ford	
B8A6513B	32-677-D	C4TZ6513A	32-798	C9TE6507A	10-1120	D3VZ6505A	10-1271
B8A6518A	34-613	C5AE6500E	36-900CCI	C9TM6505A	10-09538	D3VZ6505C	10-1271+15
B8AZ6563D	42-2641	C5AE6505A	10-1358	C9TM6507A	10-09536	D3VZ6507A	10-1272
B8AZ6564C	40-2859	C5AE6505E	10-1358	C9ZZ6518A	34-555	D3VZ6507C	10-1272+15
B8QH6057A	22-1744-1N	C5AE6507A	10-963	CC3Z6505A	10-13266	D4ZE6505AD	10-1597
B8QH6518A	34-802	C5AE6507A2	10-963	CE2DZ6500A	36-900CCI	D4ZE6507AD	10-1598
B8S6500A	36-2083	C5AZ6507A	10-963	DOAE6500A	36-900CCI	D43Z6505A	10-1597
B8TZ6057T	22-2220-1	C5TE6505E	10-965S	DOAE6500E	36-900CCI	D4FZ6500A	36-2012
B8TZ6513A	32-931	C5TZ6505A	10-965S	DOAE6505AA	10-1169	D4FZ6505A	10-1597
B9AE6505A	10-1242	C5TZ6505E	10-965S	DOAE6505AE	10-1171	D4FZ6507A	10-1598
BC3Z6505A	10-13266	C5TZ6507A	10-1120	DOAE6507BJ	10-1172	D4NN6056A	22-1900-2+010
BC3Z6505AA	10-13266	C5TZ6507C	10-1120+15	DOAZ6500A	36-900CCI	D4NN6056B	22-1900-2+010
BC3Z6507A	10-13265	C5TZ6507E	10-1120	DOAZ6505A2	10-1169	D4NN6056C	22-1900-2+020
BC3Z6513A	32-5015	C5TZ6513Z	32-812	DOAZ6505E	10-1171	D4NN6057A	22-1630-1N
BC3Z6571A	38-6129-55	C60E6505A	10-1000	DOAZ6505E2	10-1171	D4TE6505AA	10-1242
BE8Z6505B	10-30125	C60E6507A	10-1001	DOAZ6507A2	10-1172	D4TE6505AD	10-1597
BL3Z6505A	10-13291S	C6836505J	10-1000	DOAZ6507E2	10-1170	D4TZ6505A	10-1242
BL3Z6507A	10-13290S	C6AE6505A	10-1000	DOAZ6507J	10-637	D4TZ6507A	10-637
BL3Z6571A	38-6125-55	C6AZ6505J	10-1000	DOAZ6A529A	42-1791	D4ZE6507A	10-1598
BR3Z6505A	10-13295	C6AZ6507A	10-1001	DOJE6505E	10-1177S	D4ZZ6505A	10-1300
BR3Z6507A	10-13294	C6AZ6507J	10-1001	DOJE6507A	10-1701	D5Z76510A	30-9462
BR3Z6513A	32-5011	C6AZ6513A,D	32-909-D	DOOZ6500A	36-900CCI	D5AE6505JA	10-1327
BR3Z6571B	38-6128-55	C6CZ6513A,AA	32-677-D	DOOZ6A527A	42-1740	D5AZ65057A	20-1687-1
COAE6500A	36-2083	C6CZ6513B	32-611	DOTE6505A	10-1358	D5HE6505AA	10-1346S
COAE6505E	10-1242	C6CZ6513D	32-715	DOTZ6505A	10-1177S	D5OZ6513A	32-1086
COAE6505J	10-375	C70E6505J	10-1000	DOVZ6505A	10-1102	D5TE6505AA	10-1327
COAE6505N	10-1242	C70E6507J	10-1001	DOZZ6513A	32-961-D	D5TE6505AAA	10-1177S
COAE6505U	10-1242	C7AE6500A	36-900CCI	D1AE6505AA	10-1169	D5TE6505NA	10-1332
COAE6507AI	10-376	C7AZ6505A	10-1000	D1AZ6500A	36-900CCI	D5TE6507AA	10-1328
COAE6507J	10-373	C7AZ6507E	10-1001	D1AZ6500B	36-900CCI	D5TE6507EA	10-1349S
COAZ6505N	10-1242	C7AZ6507J	10-1001	D1AZ6510D	30-6114	D5TE6507JA	10-1348
CODE6056A	20-1562-3	C7AZ6513E	32-902	D1AZ6513A	32-994	D5TZ6505A	10-1327
CODE6056C	20-1562-1+030	C7JE6505M	10-1242	D1FZ6505A	10-1199	D5TZ6505J	10-1332
CODE6057A	20-1375-4	C7TE6505E	10-1332	D1FZ6507A	10-1200	D5TZ6505N	10-1177S
CODE6505A	10-564	C7TE6507A	10-1057S	D1FZ6518A	34-619	D5TZ6507A	10-1328
CODE6505J	10-564	C7TE6507E	10-949	D1FZ6571B,C,D	38-950-15	D5TZ6507A2A	10-1328
CODE6513A	32-715	C7TE6507F	10-949	D1TZ6505A	22-1630-1	D6AZ6510A	30-7459
COM6507N	10-376	C7TZ6505B	10-1242	D27Z6505A	10-10060S	D6AZ6510B	30-5607
C0TE6507A	10-376	C8AE6500A	36-2083	D27Z6507A	10-10061	D6EE6505AA	10-1597
C0TE6507E	10-376	C8AZ6500A	36-2083	D27Z6518A	34-212	D6EE6507A2A	10-1598
C1AE6505E	10-1242	C8AZ6500B	36-2083	D27Z6518B	34-213	D6EE6507AA	10-1598
C1AE6507A	10-637	C8AZ6513A	32-906	D2AE6505AA	10-1237	D6EE6C501A1A	36-2012
C1AZ6513A	32-745-D	C8SZ6056A	20-2125-4	D2AE6507AA	10-1238	D6FZ6500A	36-2012
C1DE6507A	10-627	C8SZ6057A	20-1750-1	D2AZ6505A	10-1237	D6FZ6505A	10-1597
C20E6500A	36-900CCI	C8SZ6505A	10-1102	D2AZ6505D	10-1135	D6FZ6507A	10-1598
C20Z6500A	36-900CCI	C8SZ6507A1	10-1103	D2AZ6507A	10-1238	D6OZ6517A	38-911-25
C20Z6500B	36-900CCI	C8SZ6513B	32-991	D2AZ6507C	10-1238+15	D6TZ6507A	10-1349S
C20Z6500C	36-900CCI	C8SZ6A529A	42-1793	D2DE6505AA	10-1266	D6TZ6507E	10-1348
C20Z6500D	36-900CCI	C8TE6507A	10-1120	D2DE6507AA	10-1268	D7AY6513A	32-1201
C20Z6A528CHP	42-1772	C8TZ6057A	22-1815-1	D2DE6507EA	10-1268	D7AZ6505E	10-1271
C2AE6505E	10-375	C8VE6505J	10-1102	D2DZ65053	10-1266	D7AZ6507E	10-1272
C2AZ6505A	10-1242	C8VE6507E	10-1103	D2DZ6505A	10-1266	D7AZ6507F	10-1272+15
C2TZ6513A	32-735	C90E6505J	10-1237	D2DZ6505C	10-1266	D7AZ6A528A	42-1776
C3AE6505J	10-742	C90E6505U	10-1237	D2DZ6507A	10-1268	D7BE6507AA	10-1357
C3AZ6505A	10-375	C90E6507AA	10-1238	D2DZ6507E	10-1268	D7BZ6507A2A	10-1357
C3AZ6505J	10-742	C90E6507J	10-1238	D2DZ6571A,B	38-766-15	D7DZ6505A	10-1327
C3AZ6513B	32-907-D	C90Z6507A	10-1238	D2FZ6505A	10-1199	D7JE6505AA	10-1271
C3DE6500B	36-2083	C9AE6500A	36-2083	D2OE6505EA	10-1237	D7JE6507AA	10-1272
C3DZ6500B	36-2083	C9AE6505A	10-1135	D2RY6505A	10-1300	D7TE6505AA	10-1358
C3DZ6513A	32-778	C9AE6505U	10-1135	D2RY6507A	10-1285	D7TE6505EA	10-1358
C3OZ6513A	32-786-D	C9AE6507A	10-1137	D2RY6513A	32-1044	D7TZ6505A	10-1358
C3TE6505A	10-375	C9AE6507N HD	10-1120	D2RY6518A	34-614	D8AE6500A	36-900CCI
C40E6500A	36-900CCI	C9AE6507N LD	10-963	D2TE6505AA	10-1135	D8AE6505BA	10-1367
C4AE6505A	10-1242	C9AE6507S	10-963	D2TE6507AA	10-1137	D8AZ6513A	32-1149
C4AE6507E	10-947	C9AE6507U	10-1137	D2TZ6505A	10-1135	D8AZ6513B	32-1175
C4AZ6507A	10-947	C9AZ6505A	10-1135	D2TZ6505J	10-1135	D8AZ6564B	40-2888
C4TE6507A MD	10-949	C9AZ6507A	10-1137	D2TZ6507A	10-1137	D8AZ6A527A	42-1741
C4TE6507M	10-949	C9NN6057J	22-1630-1N	D3AZ6A527A	42-1740	D8NN6507AA	10-1694
C4TZ6057A	22-1630-1	C9NN6057M	22-1600-1+030	D3OZ6513A	32-1086	D8TE6505AJ	10-1367
C4TZ6505J	10-1332	C9OZ6513A	32-935-D	D3RY6505A	10-1300	D8TE6505E	10-1367
C4TZ6507J	10-949	C9OZ6513B	32-936	D3VE6505AA	10-1271	D8TE6505EA	10-1367
C4TZ6507R	10-1057S	C9TE6505J	10-1242	D3VE6507A	10-1272	D8TE6507AA	10-1380

# O.E. AND COMPETITOR INTERCHANGE

Ford		Ford		Ford		Ford	
D8TZ6505A	10-1367	E2ZE6505GA	10-1597	E6AZ6507A	10-1538	E9Z26505B	10-10164
D8TZ6505E	10-1367	E2ZZ6505A	10-1597	E6DZ6266A	96-02233SCRT	E9Z26507A	10-10162
D8TZ6505J	10-1135	E3BZ6571A	38-766-25	E6DZ6505A	10-1535	E9Z26510A	30-8142
D94Z6057C	22-1671-1N	E3DZ6571A	38-810-45	E6DZ6507A	10-1536	E9Z26C501A	36-2254
D9Z76510A	30-9557	E3HN6505AB	10-1740	E6DZ6513A	32-1258	E9Z26C501B	36-2254
D9Z76571A	38-966-55	E3TZ6057B	22-1669-1	E6FZ6513B	32-1299	E9AE6505AA	10-1537
D9Z76571B	38-966-55	E3TZ6500A	36-2104	E6HZ6507A	10-1694	E9AE6505BA	10-1537
D9HZ6057A	22-1781-1N	E3TZ6505A	10-1527	E6SE6505A2A	10-1537	E9AE6507AA	10-1538
D9HZ6500A	36-900CCI	E3TZ6505D	10-1542	E6SE6505DA	10-1537	E9AZ6507A	10-1328
D9HZ6505D	10-1383C	E3TZ6505L	10-1300	E6SE6507A2A	10-1538	E9DZ6505A	10-10168S
D9HZ6505G	10-1381	E3TZ6507A	10-1528	E6TZ6500A	36-2083	E9DZ6507A	10-10167
D9HZ6507A	10-1386S	E3TZ6507D	10-1543	E6TZ6505A	10-10386	E9DZ6510A	30-8559
D9HZ6507D	10-1382	E3TZ6507F	10-1285	E6TZ6507A	10-1328	E9FZ6500A	36-2217
D9HZ6507E	10-1384S	E3TZ6510A	30-8013	E6TZ6507D	10-10385	E9JY6505A	10-10159
D9HZ6507G	10-1384S	E3TZ6510B	30-7689	E6TZ6513A	32-1290	E9JY6507A	10-10157
D9HZ6510A	30-8037	E3TZ6565A	74-6608	E6TZ6571A	38-812-45	E9JY6510A	30-8186
D9HZ6513A	32-1166	E3TZ6571A	38-844-45	E6TZ6571E	38-400-55	E9JY6510B	30-8187
D9HZ6513B	32-1167	E3ZE6507A	10-1328	E79E6507A2A	10-1598	E9SE6505B2A	10-1469
D9HZ6565A	74-6274	E3ZE6507A2A	10-1328	E7AZ6507A	10-1538	E9SE6507B2A	10-1470
D9OE6505AA	10-1135	E3ZZ6507A	10-1328	E7DZ6513A	32-1258	E9SE6A517AA	38-108-45
D9TE6505AA	10-1383C	E3ZZ6507C	10-1328+15	E7EE6505B2A	10-1545	E9S26505A	10-1469
D9TE6505EA	10-1381	E3ZZ6513B	32-1250	E7EE6505B2D	10-1545	E9S26507A	10-1470
D9TE6507AA	10-1137	E43E6505B2A	10-1597	E7EE6505E2A	10-1451	E9S26571B	38-108-45
D9TE6507AB	10-1386S	E43E6507B2A	10-1598	E7EE6507B2A	10-1546	E9TE6505AA	10-1135
D9TE6507EA	10-1382	E43Z6266A	96-02207SCRT	E7EE6518B3A	34-00515	E9TE6507AA	10-1328
D9TE6507JA	10-1384S	E43Z6505A	10-1597	E7FZ62057A	21-1625-62	E9TE6507AB	10-1328
D9TZ6507A	10-1380	E43Z6507A	10-1598	E7FZ62057B	21-1437-65	E9TZ6505A	10-1135
D9TZ6514A	37-6514	E4AE6507A2B	10-1470	E7FZ62057C	21-1562-54	E9TZ6507A	10-1328
D9TZ6514A	32-1016	E4AZ6505A	10-1135	E7FZ6500A	36-2217	E9TZ6513A	32-1420
D9ZE6505AA	10-1397	E4DZ6057A(.)	22-1630-1	E7FZ6505A	10-1545	E9TZ6513A	32-991
D9ZE6507A	10-1598	E4DZ6507A	10-1470	E7FZ6505B	10-1545	E9ZE6505BA	10-1135
D9ZZ6505A	10-1397	E4DZ6513A	32-1227-D	E7FZ6505C	10-1545	E9ZE6507BA	10-1328
DC2Z6571A	38-111-45	E4EE6505A2A	10-1451	E7FZ6505D	10-1545	EAD6500	36-2083
DOAE6507BU	10-1170	E4EE6507A2C	10-1452	E7FZ6507A	10-1546	EAM6518A	34-165
DOAZ6518A	34-620	E4EZ6505A	10-1597	E7FZ6507B	10-1546	EBJ6500A	36-2083
DOOZ6513B	32-1011	E4FZ6505A	10-1451	E7FZ6507C	10-1546	EBP6505A	10-375
E0AZ6507A	10-1328	E4FZ6507A	10-1452	E7FZ6507D	10-1546	EBP6507E	10-373
E0AZ6513A	32-1193	E4FZ6571A	38-840-45	E7GZ6505A	10-10155	EBP6507N	10-373
E0EE6501AA	36-2012	E4TE6505AA	10-1135	E7GZ6507A	10-10154	EBU6507A	10-376
E0JY6507A	10-10157	E4TZ6505A	10-1542	E7GZ6510A	30-8036	EBU6514A	34-555
E0SE6507A2A	10-1416	E4TZ6513B	32-1360	E7GZ6571A	38-997-45	ECK6505A	10-375
E0SE6507AA	10-1416	E4ZE6505AA	10-1397	E7HZ62057A	22-1962-1N	ECR6507F	10-494
E0SZ6507A	10-1416	E4ZE6507A2A	10-1598	E7HZ62057E	22-1733-2N	ECU6500A	36-2083
E1AE6505EA	10-1266	E4ZE6507F2A	10-1328	E7HZ6505A	10-1758	ECV6500A	36-2083
E1AZ6505A	10-1266	E53Z6513A	32-1262-D	E7HZ6507A	10-1757	EDB6507A	10-494
E1EE6505AA	10-1451	E57E6505AA	10-1527	E7HZ6510A	30-8409	EDC6505E	10-1242
E1EE6507A2A	10-1452	E57E6507AA	10-1528	E7RY6505A	10-10386	EDG6500A	36-2083
E1EE6507AA	10-1452	E59E6507A2B	10-1598	E7SE6507A2A	10-1538	EOAZ6564B	40-2889
E1FZ6057A	21-1750-60	E59E6507A3B	10-1598	E7TE6505AB	10-1547	F0CZ6505A	10-10235
E1FZ6057C	21-1562-54	E5EE6507C2B	10-1452	E7TE6507A2A	10-1505	F0CZ6507A	10-10234
E1FZ6505A	10-1451	E5FZ6507A	10-1452	E7TE6507BA	10-1548S	F0CZ6510A	30-8173
E1FZ6507A	10-1452	E5HN6505AA	10-1758	E7TZ62057A	22-1781-1N	F0CZ6510B	30-8174
E1FZ6518A	34-619	E5HN6507AA	10-1757	E7TZ6505D	10-1547	F0HZ6507A	10-1757
E27E6505AA	10-1527	E5JE6505AA	10-1504S	E7TZ6505G	10-1504	F0HZ6513A	32-219
E27E6507AA	10-1528	E5JE6507A	10-1120	E7TZ6507A	10-1505	F0JY6505A	10-10159
E27Z6571A	38-966-55	E5TE6505BA	10-1504	E7TZ6507D	10-1548S	F0JY6507A	10-10157
E2AE6505A	10-1135	E5TE6507B2A	10-1505	E7TZ6507G	10-1505	F0TZ6056A	20-1875-9
E2AE6505DD	10-1469	E5TZ6505A	10-1504	E7ZE6A517AA	38-805-45	F0TZ6500A	36-2244
E2AE6505SA	10-1135	E5TZ6505E	10-10416	E7ZE6A517BA	38-806-55	F0TZ6505A	10-10388
E2AE6507D2D	10-1470	E5TZ6505F	10-1527	E7ZZ6571A	38-805-45	F0TZ6507A	10-10387
E2AE6507E2D	10-1470	E5TZ6507A	10-1505	E7ZZ6571B	38-806-55	F0TZ6513A	32-1684
E2AZ6505B	10-1135+15	E5TZ6507E	10-10415	E83E6507A2A	10-1598	F0TZ6564A	40-1807
E2AZ6505D	10-1135	E5TZ6507F	10-1528	E83Z6505A	10-1597	F0TZ6565A	74-5471
E2DZ6057A	21-1875-50	E5TZ6513A	32-1244	E83Z6507A	10-1598	F0VY6505A	10-1537
E2DZ6057C	21-1625-54	E5TZ6513B	32-1245	E8AZ6571A	38-925-25	F12Z6510A	30-8142
E2DZ6505A	10-1469	E5ZE6505AA	10-1397	E8BZ6505A	10-10153	F1AE6505CC	10-1698
E2DZ6507A	10-1470	E5ZZ6505A	10-1397	E8BZ6507A	10-10118	F1AE6507BE	10-1699
E2DZ6510A	30-8545	E5ZZ6507A	10-1598	E8TZ6505B	10-1542	F1AE6518BA	34-281
E2GZ6513A	32-1247	E5ZZ6507G	10-1328	E8TZ6505C	10-1542	F1AE6C501BB	36-2271
E2TE6505DA	10-1358	E6AE6505A2C	10-1535	E8ZE6505A2A	10-1597	F1AZ6057A	21-1875-56
E2TN6507AB	10-1694	E6AE6507A2E	10-1536	E8ZZ6507A	10-1598	F1AZ6057B	21-1375-61
E2TZ6505A	10-1358	E6AZ6505A	10-1537	E9Z26505A	10-10163	F1AZ6505A	10-1698

# O.E. AND COMPETITOR INTERCHANGE

## Ford

F1AZ6507A	10-1699
F1AZ6510A	30-8274
F1AZ6513A	32-1615
F1AZ6518A	34-281
F1AZ6571A	38-843-45
F1AZ6C510A	36-2271
F1AZ6V501B	36-2271
F1CZ6571A	38-840-45
F1DZ6500A	36-900CCI
F1HE6505A	10-1383C
F1HE6505AB	10-1832C
F1HZ6057A	38-403-45
F1HZ6505A	10-1832C
F1HZ6571B	38-403-45
F1JE6505AA	10-1504S
F1JE6505DA	10-1877
F1JE6507AA	10-1120
F1JE6507EA	10-1701
F1T36507BA	10-1505
F1TE6505BA	10-1504
F1TE6507BA	10-1505
F1TE6507HA	10-1548
F23Z6513A	32-1262-D
F2CZ6500A	36-2217
F2LE6505AF	10-1708
F2LE6507AE	10-1709
F2NN6518AA	34-613
F2SE6500AA	36-2205
F2SZ6500A	36-2205
F2TZ6507A	10-1548
F2Y110280A	30-8142
F32Z6505A	10-10551
F32Z6505B	10-10563
F32Z6507A	10-10550
F32Z6507B	10-10562
F32Z6507C	10-10562
F32Z6510A	30-8561
F32Z6C501A	36-2276
F33E6505A2A	10-1597
F33E6507A2A	10-1598
F37E6505A2A	10-1597
F3CZ6057A	21-1625-62
F3CZ6057B	21-1437-65
F3CZ6500A	36-2217
F3CZ6505A	10-10235
F3DE6507AA	10-1536
F3LY6057A	21-1500-79
F3LY6057B	21-1250-61
F3LY6505A	10-1698S
F3LY6505A	10-1708
F3LY6507A	10-1709
F3LY6507A	10-1699
F3LY6571A	38-905-45
F3TE6507JA	10-1723
F3TE6507KA	10-1701
F3TZ6505A	10-1877
F3TZ6505B	10-1754
F3TZ6507A	10-1701
F3TZ6507B	10-1701
F3TZ6507D	10-1723
F3TZ6507E	10-1723
F3XY6057A	21-1750-66
F3XY6057B	21-1500-53
F3XY6500C	36-2198
F3XY6505A	10-10282
F3XY6507A	10-10281
F3XY6510B	30-8389
F3ZE6505BA	10-1877
F3ZE6507BA	10-1701
F3ZZ6505A	10-1877
F3ZZ6507A	10-1701
F4AE6A517AA	38-111-45

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F4AZ6571A	38-111-45
F4BZ6505A	10-10153
F4BZ6507A	10-10118
F4BZ6C501B	36-2254
F4DZ6057A	21-1875-50
F4DZ6507A	10-1536
F4TE6505EB	10-1504S
F4TZ6505A	10-1786
F4TZ6505B	10-1504S
F4TZ6505C	10-1786
F4TZ6507A	10-1785
F4TZ6507B	10-1785
F4TZ6513A	32-1201
F4TZ6518A	34-613
F4TZ6565A	74-6611
F4TZ6571A	38-173-45
F4TZ9F538A	87-4376
F53E6505AB	10-1729
F53E6507AA	10-1728
F53E6518BA	34-03722
F57E6505BB	10-1744
F57E6507BB	10-1743
F57E6A517AA	38-309-45
F57Z6505A	10-1744
F57Z6505BB	10-1744
F57Z6507A	10-1743
F57Z6507BB	10-1743
F57Z6510A	30-8274
F57Z6513A	32-04026
F57Z6571A	38-309-45
F5AE6507AA	10-1699
F5AZ6507A	10-1699
F5AZ6510A	30-8274
F5DE6505AC	10-1788
F5DE6507AC	10-1787
F5LY6571A	38-46-45
F5RZ6500BA	36-7022
F5RZ6505A	10-1746
F5RZ6505D	10-1729
F5RZ6507A	10-1745
F5RZ6507D	10-1728
F5RZ6510A	30-8560
F5RZ6518B	34-281
F5RZ6571B	38-565-45
F5UE6507AA	10-1792
F5UZ6507A	10-1792
F65E6505AA	10-1791
F65E6507AA	10-1789
F65E6C501AA	36-2271
F65Z6507AA	10-1789
F67E6505AA	10-1877
F67J6C501AA	36-2271
F67Z6500A	36-2012
F6AE6505AB	10-1698S
F6AE6507AB	10-1699S
F6AZ6513AA	32-1615
F6AZ6571A	38-111-45
F6AZ6571AA	38-111-45
F6CE6507CB	10-2044
F6CE6507EA	10-2044
F6DZ6049EC	30-9204
F6DZ6505A	10-1788
F6DZ6505DA	10-1939S
F6DZ6507A	10-1787
F6DZ6507DA	10-1938
F6DZ6571DA	38-936-45
F6DZ6C501A	36-2271
F6JL6505AA	10-1504S
F6LE6513AB	32-2300
F6LZ6513AB	32-2300
F6XZ6505AA	10-10282S
F6ZE6507AA	10-1790

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F6ZZ6505A	10-1791
F6ZZ6507A	10-1790
F6ZZ6510A	30-8574
F6ZZ6510B	30-8575
F6ZZ6513A	32-2475
F72Z6505BA	10-10563
F72Z6507AA	10-10562
F77Z6500AB	36-7005
F77Z6505AA	10-10388
F77Z6505AC	10-1914
F77Z6507AA	10-10387
F77Z6507AB	10-1913
F77Z6510AE	30-8663
F77Z6513AA	32-2302
F77Z6513ZZ	32-2302
F77Z6571AB	38-292-45
F77Z6571AB	38-812-45
F77Z6571AB	38-844-45
F7CZ6505AA	10-1936
F7CZ6507AA	10-2044
F7CZ6507CB	10-2044
F7CZ6513AA	32-2486
F87E6505BA	10-1914
F87E6507BA	10-1913
F87Z6505BA	10-1914
F87Z6507BA	10-1913
F8CZ6505AA	10-1936
F8CZ6505AA	10-1746
F8RZ6505AA	10-1936
F8RZ6507BA	10-2044
F8RZ6507BA	10-1745
F0DE6500AA	36-900CCI
K0AA371100	10-10167
K0AA371500	10-10168S
MXS6E6C501AC	36-7101
PB8M6500A	36-2083
XF2Z6513AA	32-2475
XL3Z6505AA	10-1925
XL3Z6507AA	10-1924
XL3Z6513AA	32-2487
XS4Z6513AA	32-2486
XS6E6505B2A	10-03005
XW4Z6505AA	10-2193
XW4Z6505ZZ	10-2193
XW4Z6507AA	10-2192
XW4Z6510AA	30-3028
XW4Z6518BA	34-5023
YF1Z6505BA	10-2047
YF1Z6507BA	10-2046
YF1Z6513CA	32-2476
YF1Z6513FA	32-2476
YS4Z6505AA	10-1936
YS4Z6571CA	38-571-45

## General Motors

01635313	34-5030
10004296	10-1438
10004728	10-1437
10022882	10-1438
10024039	10-1437
10034162	10-1437
10040226	10-1551
10040232	32-1374
10042875	38-819-45
10042877	38-821-45
10044421	10-1550
10044512	10-1592
10044515	10-1591
10044612	10-1550
10044620	32-1301-D
10045251	10-1294S

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10045252	10-1393
10069213	10-1261S
10070124	10-1560
10070124	10-2058
10070125	38-830-45
10088106	10-1192
10089648	41-1736
10093027	10-1195
10101149	10-1107
10112680	40-2867
10114115	10-996S
10114116	10-1235S
10114117	10-1087
10114118	10-1107
10114119	38-119-35
10124650	32-1391-D
10124698	32-1301-D
10124698	32-1391-D
10127492	10-1703
10127493	10-1702
10127568	32-2490
10130992	34-00992
101321082	38-827-45
10137454	10-1482S
10147882	38-4788-35
10149663	10-1780S
1015098	30-3020
10156070	10-1705
10156071	10-1704
10162178	10-1702
10166152	10-1195+15
10166341	10-1810
10166342	10-1811
10166343	32-1265
10166345	34-5005
10166354	74-6475
10166355	74-6474
10166368	38-031-45
10168465	10-1195
10168495	10-1195
10168509	10-1195
10168514	10-1809
10168594	10-1807
10198809	32-2212
10198812	30-8535
10198816	10-1736
10198817	10-1737
10198818	38-322-45
10206040	32-2210
10212810	38-371-45
10212811	32-1680
10214034	38-240-15
10220606	10-1806
10227494	10-1931
10238852	74-6614
10240894	10-1107
10240896	10-1261S
10240898	32-04013
10240899	37-2899
10241740	74-6373
10241742	10-1931
10241743	10-1931
10244974	10-1806
10785567	36-951
1111560B11001	30-8324
111158650001	30-8144
112215030	30-8147
1165557	30-1733
1231079	10-1189
1232184	10-1188
12338014	38-830-45
12338631	20-1375-2

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General Motors		General Motors		General Motors		General Motors	
12338632	20-1625-5	12563062	10-1934	1369982	32-804	1486752	10-1083
12339069	20-1750-2	12563064	10-1935	1370108	10-976	1486753	10-1084
12339070	20-1500-1	12563064	10-1935	1370109	10-975	1602743	10-1293
12350995	20-2125-38	12564012	36-2148	1377868	30-1937	1604113	10-1292
12350996	20-1937-17	12564338	10-2267	1379908	32-881-D	1611155	10-1293
12350997	20-1812-4N	12564494	10-1934	1381656	10-1188	1615431	10-1434
12350998	20-1812-9N	12564494AA	10-1934	1381657	10-1082	1615436	10-1433
12350999	20-1812-5N	12564852	38-371-45	1381658	10-1188	1618837	10-1464
12353358	20-1625-40	12565197	10-2053	1385075	10-1105	1621321	10-1463
12353360	10-1437	12565204	10-2076	14002446	41-2407	1625100	20-1625-1
12353361	10-1437+15	12565763	32-2522	14004097	10-1466	1632056	30-5606
12353362	10-1438	12565836	38-6036-55	14004098	10-1465	1635315	10-1558
12353381	10-1438+15	12568411	10-2172	14007368	10-1372	1635318	10-1559
12353382	10-1550	12568412	10-2173	14007370	10-1393	1644844	10-1594
12353386	10-1550+15	12569427	10-13239	14007743	10-1192	1647160	30-8666
12353387	10-1551	12569550	10-13013	14024249	10-1395	1647161	30-8668
12353388	10-1551+15	12569583	10-1929	14024254	10-1394	1647199	10-1707
12353397	10-1591	12571595	36-2303	14024298	10-1192	1647200	10-1706
12353398	10-1591+15	12571596	36-2303FG	14024299	10-1371	1647209	34-07209
12353399	10-1592	12571608	36-2303RG	14024300	10-1192	1647211	38-407-45
12353400	10-1592+15	12574354	38-354-45	14024474	10-1195	1649705	38-823-45
12353401	10-1710	12575197	34-5032	14025512	32-1220-D	17085565	36-969
12353402	10-1710+15	12575351	10-13334	14025563	38-250-35	17085566	36-817CCI
12353403	10-1711	12575352	10-13211	14025569	10-1393	17085568	36-2095
12354124	32-1303	12575354	10-13335	14025570	10-1193	17089102	36-2236
12356509	20-1562-42	12575355	32-5001	14025571	10-1393	17089852	36-2148
12362632	10-1195+15	12575356	10-13230	14025572	10-1195	17102014	36-2270
1237653	10-1188	12575793	10-1997	14025573	10-1195	17102660	36-969
1237656	32-1002-D	12576400	36-2148	14025574	10-1195	17105697	36-2272
1237667	10-1189	12576400	36-2148	14025575	10-1192	17105951	36-2236
1237670	32-1003-D	12577696	10-2172	14030029	32-1190-D	17106263	36-2272
1238022	32-1001	12577696	10-13043	14031328	10-1481	17109057	36-2148
1241850	40-2813	12577697	10-2173	14031332	10-1480	17120060	36-2279
1241851	40-2814	12582719	10-13042	14033139	10-1192	17120061	36-2279
1242768	32-1034	12586484	32-5017	14033927	10-1484	17120070	36-2270
12457652	38-805-55	12589774	32-04046	14033928	10-1482S	17120090	36-2148
1246741	10-1321	12592506	32-5008	14034082	10-1193	17120735	36-2148
1247718	10-1320	12596034	10-2010S	14037631	10-1371	17120991	36-2236
12480244	32-2212	12596078	32-04051	14037636	10-1192	17121905	36-2148
12482062	38-901-45	12596995	38-6995-45	14042575	37-4003	17121905	36-2148
12482063	38-900-45	12601762	10-13046	14045145	10-1261S	17122490	36-2148
1248956	10-1318	12601763	10-13179	14075629	74-6230	18120004	20-1812-4
12523971	40-2754	12610719	10-13241S	14075631	74-6380	19207664	38-6036-55
12529742	30-9946	12610931	10-13333	14075641	10-1195	21000103	34-00992
12533586	38-805-55	12612427	10-13042	14076469	32-1304	21000424	30-8293
12537174	32-2212	1261378	10-1388	14077112	32-1330-D	21000637	10-10521
1254158	10-1352	1261380	10-1387	14081040	10-1578S	21000638	10-10520
12550002	36-2148G	1261380	10-1389	14081046	37-1046	21000639	21-1125-53
12550458	10-1935	1261424	10-1387	14081053	10-1087	21000640	21-1375-60
12550458	10-1935	12616671	32-5001	14082305	10-1646S	21000740	36-2273
12550909	10-1807	12620501	10-13211	14085486	32-1268	21000982	30-8292
12551397	36-2279G	12621548	10-13212	14086088	10-1569	21000983	21-1437-69
12552289	10-1807S	12623722	10-13179	14086089	10-1568	21000984	21-1687-58
12553349	10-2053	12624396	38-6132-55	14087525	10-1235S	21000985	10-10523
12553350	10-2054	12625033	32-5017	14088641	10-1192	21000986	10-10522
12553351	32-2494	12627970	10-13240	14090057	74-6445	21006284	30-8293
12553354	38-354-45	12627971	10-13244	14091408	10-1578S	21006357	36-2296
12553696	32-2500	12631974	10-13335	14091805	10-1561	21006379	21-1125-53
12555564	32-2484	12631975	10-13334	14091805	10-2057	21006406	10-10520
12555601	38-811-55	12632143	36-2303	14091806	10-1560	21006515.6	38-585-45
12555905	10-1934	12636393	55-6066	14091806	10-2058	21006678	36-2273
12555908	10-2045	12639516	36-2303	14095256	74-6034	21006693	36-2273
12556295	74-6638	12639517	36-2303FLA	14095451	10-1192	21006828	30-8293
12556296	74-6639	12639518	36-2303RLA	14096684	10-1164	21006829	30-8292
12556298	40-9111	12645723	36-2303RLA	14097045	10-1164	21006842	32-2460
12556317	10-2101	12645724	36-2303FLA	14103192	10-1261S	21006898	32-2461
12556320	32-04042	12645725	36-2303	14103223	10-1195	21007037	10-10521
12556458	10-1706	12771608	36-2303RG	1410957	30-1411	21007038	10-10520
12557928	30-3024	1285035	30-1384	1458092	30-1684	21007039	10-10522
12558295	10-1935S	1291178B00	10-03033	146112	30-1745	21007040	10-10523
12558674	38-371-45	1362589	30-1733	1465406	32-619	21007154	10-10521
12558849	10-2126S	1368166	30-1928	1465408	32-619	21007184	32-2462

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General Motors		General Motors		General Motors		General Motors	
21007426	30-8021	24574723	10-1941	3799576	10-696	3989088	10-1193
21007455AC	10-1949	24574723	10-1937	3799644	36-817CCI	3989089	10-1206S
21007456AC	10-1950	24574860	32-04018	3814692	42-2921	3992264	10-1192
21007462	30-8292	24575384	10-1903	3815082	10-308	3994246	10-1193
21007685	38-586-45	24575387	10-1902	3819002	10-399	3995651	10-1195
21008103	32-2463	24575582	38-588-45	3835333	38-240-15	3995656	10-1195
21008589	32-2461	24576974	10-1998	3835639	10-400	399809	10-969
21015025	36-2273	24576975	10-1999	3835910	10-308	401762	10-974
21055098	30-3020	24577277	32-04051	3836006	42-2941	401768	10-970
22503324	10-1450	2465337	10-938+15	3836026	10-400	403350	10-1002
22510372	32-1195-D	25178085	36-2272	3836331	32-575	405874	10-1457
22513937	10-1370	25341990	36-2148	3836542	10-400	405886	10-970
22514420	21-1750-65	25342148	36-2104	3836640	32-558	405892	10-974
22514423	21-1937-53	25512098	10-1388	3836652	10-400	409265	10-1212
22519914	10-1370	25518390	38-450-25	3839387	10-400	409270	10-1210
22521789	10-1450	25519324	38-956-45	3840811	30-1918+2	411202	10-1457
22525390	10-1450	25521841	10-1389	3849814	10-988	411225	32-1016-D
22527103	10-1370	25523695	32-1302-D	3849818	10-919	411226	32-1016
22530611	10-1450	25523697	10-1389	3856860	32-816-D	412354	10-1263
22531217	38-827-45	25530143	38-956-45	3859905	30-7208	412821	10-1457
22531218	32-1380	25532065	10-1711	3859911	32-815-D	415784	10-1002
22531220	34-510	25532066	10-1710	3859914	10-996S	417736	10-1324
22537965	10-1673	25533545	32-1303	3859915	10-1087	460483	38-938-45
22537971	10-1674	329275	10-1192	3860004	10-1107	460483	38-925-25
22542308	10-1726	33002729	38-535-45	3864808	10-1164	460527	38-910-25
22542314	10-1727	336733	10-1294S	3864895	32-886	461348	10-1372
22542700	10-1673	336770	10-997	3866612	38-910-25	461349	10-1371
22548421	32-1558	336771	10-1241C	3869997	36-817CCI	465934	42-1786
230171	10-1002	340226	10-1294S	3870360	10-400	470110	38-935-45
2334647	30-1758	3520056	10-1593	388380	10-969	470113	38-322-45
23500061	10-1483S	352072	10-1593	388385	10-970	471531	10-1195
23500283	10-1780S	3520720	10-1558	3887125	32-864-D	471553	10-1371
23502552	38-552-45	3522423	10-1739	3887127	10-997	473428	10-1241C
23503994	74-6609	3522487	32-2484	389451	10-1457	473429	10-1241C
2367415	22-1952-1	353075	32-1041-D	389457	10-974	476527	42-1721
2367485	30-1758	3535417	10-1594	3896931	32-880-D	476528	10-1394
2379691	32-735	360506	38-535-45	3904295	42-2941	476529	10-1395
241000050	36-7082	361957	10-1241C	3906695	10-1106	476530	42-2948
24100293	38-354-45	361958	10-1241C	3911068	32-880-D	477212	42-1720
24405805	30-3279	364737	10-1241C	3921912	42-2941	477292	32-1038-D
24405819	38-6131-55	364746	10-1195	393063	10-1002	483186	10-1093
24405819	38-6131-55	3688065	10-199	3931005	10-1107	483191	10-1160
24454518	10-2010S	3688758	30-1453	3931006	10-1106	483201	10-1296
24500317	38-956-45	3688759	30-1476	3937750	10-919	483211	10-1161
24501290	10-1711	3688761	30-1527	3940980	10-1153	486564	10-1160
24501291	10-1710	369399	10-1393	3940981	10-1153	486567	10-1160
24501395	38-250-35	3695455	10-308	3940982	10-1153	489843	10-1245
24501395	38-828-45	3703571	10-400	3940983	10-1153	489849	10-1296
24501667	10-1710	3703920	10-399	3941010	10-399	4D3350	10-1002
24501717	10-1711	3704142	32-558	3942551	10-919	519113	32-576
24502254	10-1858	3708168	30-1732	3942556	10-988	52252456	10-10117
24502256	32-2212	3724778	10-400	3946077	10-1131	52252460	10-10116
24502394	10-1710	3730859	10-400	3946816	10-399	5231315	36-992
24503314	30-8593	3730860	10-399	3947770	34-555	5231355	36-951
24503417	32-2490	3731212	10-400	3947880	34-613	5231360	36-951
24503856	34-555	3735208	10-399	3955188	10-919	5231430	36-969
24503888	34-217	3735381	32-685-D	3959142	42-1792	5231465	36-969
24504195AA	10-1735	374430	42-1792	3959146	10-696	5231475	36-817CCI
24504246	10-1703	3744341	42-1786	395931	34-743	5231585	36-992
24504249	10-1703	3754754	10-400	3965583	10-696	5231615	36-951
24504710	30-8593	3758492	32-696	3969815	10-1164	5232100	36-969
24504953	10-1702	3758810	10-308	3970627	32-1009	5232110	36-969
24505722	10-1929	3760237	10-1206S	3972112	10-1206S	5232215	36-992
24507422	10-1858	3764389	38-731-15	3973186	10-1235S	5232265	36-951
24507423	10-1735	3765095	10-696	397583	32-884-D	5232280	36-817CCI
24508009	38-809-45	3769558	10-308	3981040	10-996S	5232320	36-951
24572068	38-247-45	3774052	10-399	3984180	10-1195	5232375	36-951
24573076	10-1726	3774594	10-399	3989083	10-1193	5232385	36-951
24574092	32-04002	3774685	10-399	3989084	10-1192	5232439	36-992
24574524	30-8536	3774695	10-399	3989085	10-1195	5232445	36-969
24574697	10-1937	3779410	36-969	3989086	10-1194	5232450	36-817CCI
24574697	10-1941	3779486	10-400	3989087	10-1206S	5232510	36-969



# O.E. AND COMPETITOR INTERCHANGE

Honda		Honda		Hyundai		Hyundai	
12204PT2305	30-8580	14721P2A000	10-10525	2211332961	21-1625-56	2222623500	36-7090
12205657310	30-7659	14721P75000	10-10196	2211335901	21-1562-69	2223137100	36-2289
12205657315	30-7659	14721P8EA00	10-10779	22114025000	30-3293	2223137110	36-2289
12205689300	30-7710	14721PB2000	10-10080S	2211411050	30-7576	2461022010	36-2254
12205689305	30-7710	14721PC1000	10-10113S	2211422900	30-8572	2461022600	36-2254
12205P13305	30-8583	14721PC6000	10-10193	2211422905	30-8572	2461032824	36-6000
12205PE0315	30-7659	14721PE0000	10-10189	2211423000	30-8572	2461033020	36-2274
12205PG6305	30-7710	14721PE0660	10-10187S	2211423901	30-8573	2461033040	36-2274
12205PH7305	30-8154	14721PE7000	10-10413	2211426901	30-8570	2461033050	36-2274
12205PJ7305	30-8157	14721PH1000	10-10193	221143C100	30-3152	MD079660	30-7578
12205PM7305	30-8155	14721PH3000	10-10196	2211511050	30-7577		
12205PM7305	30-8155	14721PK2000	10-10414	2211521900	30-7589		
12205PNA305	30-8577	14721PM3000	10-10191	2211522900	30-8573	<b>Isuzu</b>	
12205PNA305	30-3137	14721PNA00	10-03032	2211522905	30-8573	12204PV0305	30-8158
12205PR3305	30-8577	14721PR3000	10-10435	2211523901	30-8567	5117110260	21-1437-58
12205PR4A01	30-8579	14721PR7A00	10-10437	2211533901	30-8194	5117150230	21-1625-55
12205PT2305	30-8581	14721PT2000	10-10207	2221102200	10-3043	5117210160	30-7656
12209657000	38-570-45	14721PT3A00	10-10198	2221102200	10-30102	5125510280	10-10216
12209MBA003	38-569-45	14721PT6A00	10-10198	2221102500	10-3043	5125510282	10-10216
12209PA6003	38-569-45	14721PY3000	10-10437	2221102510	10-3043	5125510300	10-10216
12210657003	38-965-45	14721R44A00	10-13359	2221121000	10-10098	5125520340	10-10217
12210PD2003	38-569-45	14731PC6000	10-10098	2221121010	10-10098	5125520342	10-10217
12210PZ1003,4	38-994-55	14731PC6010	10-10098	2221122003	10-10547	5125520380	10-10217
12211PA6003	38-569-45	14761P08003	32-1448	2221123000	10-10723	5862020930	30-8158
12211PA6003, 4	38-976-45	14761P2A003	32-1448	2221123600	10-10816	5862020940	30-8157
12211PA6004	38-569-45	14761P8AA02	32-2400	2221124504	10-10136	5862021850	34-5008
12211PD2003,4	38-976-45	14761P8AA020M3	32-2400	2221125000	10-13190	5862058770	38-592-55
12211PE0003	38-976-45	14761PAA010	32-2406	2221126000	10-10812	5862058780	38-592-55
12211PH7003	38-965-45	14761PAA010M3	32-2406	2221126600	10-3065	5862059410	10-10541
12211PZ1003	38-592-55	14761PB2003	32-1213	2221132600	10-10143	5862059420	10-10542
12211PZ1004	38-592-55	14761PK2003	32-1392	2221132604	10-10143	5862059430	32-2406
14540PL2000	36-6033	14761PO7003	32-1447	2221133000	10-10126	5862059450	32-2412
14711689000	10-10082	14761PT5003	32-1452	2221135004	10-10624	8052342120	36-2095
14711JQJA00	10-10432	14762P06A02	32-1398	2221135510	10-10810	8101309920	34-00992
14711P07000	10-10526	14762P0A003	32-04034	2221137201	10-10808	8101988090	32-2212
14711P08000	10-10524	14762PAA010	32-2412	222113C800	10-13286	8101988160	10-1736
14711P0A000	10-10541	14762PAAA010M3	32-2412	222113C810	10-13286	8101988170	10-1737
14711P0BA00	10-10432	14762PM3004	32-1396	222113E000	10-10808	8101988180	38-322-45
14711P0HA00	10-10541	14762PM3014	32-1398	222113E050	10-13286	8102074750	32-1190-D
14711P2A000	10-10524	14762PO7003	32-1449	2221142520	10-3186	8124820620	38-901-45
14711P73J01	10-10434	14762PT5003	32-1453	2221142860	10-10415	8124820630	38-900-45
14711P75000	10-10742	14768889000	34-235	2221202200	10-3044	8125536960	32-2500
14711P75000	10-10122	14781551000	34-234	2221202200	10-30103	8125630640	10-1935
14711P8EA00	10-10778	14781MB9000	34-235	2221202500	10-3044	8125644940	10-1934
14711PB1000	10-10115	14781PJ7003	34-5008	2221221300	10-10097	8125743540	38-354-45
14711PB2000	10-10112	14781PL2004	34-234	2221221304	10-10097	8125897740	32-04046
14711PC1000	10-10115	17211PM3003	10-10190	2221221310	10-10097	812592506	32-5008
14711PC6000	10-10192	8941472221	10-10219	2221222003	10-10548	8125960780	32-04051
14711PE0000	10-10188	8941742050	21-1625-54	2221222004	10-10548	8140313280	10-1481
14711PE0660	10-10186	8941742231	10-10221S	2221222011	10-10549	8140313320	10-1480
14711PH3000	10-10195	8942067620	30-7713	2221223000	10-10724	8171200700	36-2270
14711PM3000	10-10190	8942067630	30-7714	2221223600	10-10817	8241000050	36-7082
14711PNA000	10-03031	8942594830	32-1310	2221225002	10-13287	8245038560	34-555
14711PR3000	10-10434	8944294870	34-5018	2221226000	10-10813	8245748600	32-04018
14711PR4A00	10-10122	8944470250	10-10219	2221232600	10-10144	8245753840	10-1903
14711PT2000	10-10206	8970156100	21-1437-67	2221232604	10-10144	8245753870	10-1902
14711PT3000	10-10197	8970156110	21-1312-66	2221233000	10-10128	8245755820	38-588-45
14711PT3A00	10-10197	8970378020	21-1812-51	2221235001	10-10625	8245769740	10-1998
14711PT5000	10-10197	8971102560	10-10221S	2221235004	10-10625	8245769750	10-1999
14711PT7A00	10-10197	8971319610	10-10739	2221235500	10-10811	8245772770	32-04051
14711PV1000	10-10197	8971319620	10-10740	2221237200	10-10809	890354680	34-5021
14711PY3000	10-10436	8971363280	32-04030	222123C800	10-13287	8904107410	38-1329-45
14711R44A00	10-13358			222123E000	10-10809	8904108130	10-2040S
14711RYEA00	10-13336			222123E120	10-13287	8904122770	10-10784
14721676641	10-10080S	<b>Hyundai</b>		2221242520	10-3187	890448050	32-2488
14721689000	10-10080S	2211222900	21-1125-53	2221242860	10-10416	8905020790	30-3010
14721689660	10-10080S	2211232901	21-1750-54	2222321004	34-719	8905020800	30-3011
14721P08000	10-10525	2211232961	21-1875-51	2222322001	34-5028	8905709670	36-7021
14721P0A000	10-10542	2211233901	21-1437-68	2222332004	34-716	8941105590	38-967-55
14721P0GA00	10-10741S	2211321900	21-1312-53	2222425000	38-6101-55	8941191470	10-10093
14721P0HA00	10-10542	2211322900	21-1375-63	222242G000	38-6101-55	8941332751	10-3222
14721P0JA00	10-10198	2211322950	21-1375-63	222243CAA0	38-6103-55		



# O.E. AND COMPETITOR INTERCHANGE

Isuzu	
8941367270	10-10220S
8941539690	10-10218
8941558160	21-1375-60
8941742040	21-1812-51
8941742050	21-1625-54
8941742220	10-10219
8941742221	10-10219
8941742231	10-10221S
8941767060	21-1312-65
8941767080	30-8189
8941767091	30-8255
8941767170	30-8014
8941767180	30-8015
8942007140	34-819
8942007481	21-1750-51
8942059770	10-10087
8942059770	10-10094
8942067620	30-7713
8942067630	30-7714
894207430	10-10086
8942133840	21-1500-50
8942149200	10-10093
8942165890	10-10100S
8942165891	10-10101S
8942169690	21-1750-62
8942171780	10-10087
8942171780	10-10094
8942171790	10-10093
8942203540	21-1562-66
8942287010	21-1625-61
8942287020	21-1437-64
8942314080	32-1130
8942314090	32-1131
8942478751	10-3223
8942508440	21-1562-70
8942508450	21-1312-61
8942509770	10-10105
8942509780	10-10104
8942512750	10-10218
8942512760	10-10220S
8942514400	10-10220S
8942594830	32-1310
8943161570	30-8255
8943241580	38-520-45
8943255280	21-1187-52
8943626451	30-8189
8943649611	30-8189
8943944620	22-1894-1
8943951131	10-2237
8943954620	10-2238
8943958820	10-13121
8943958822	10-13121
8943958830	10-13122
8943961720	22-1697-1
8943965980	30-3054
8943966092	38-6115-55
8944284660	38-962-45
8944294870	34-5018
8944410740	10-10220S
8944470250	10-10219
8944470260	10-10221S
8944470740	10-10221S
8944509500	21-1187-52
8944509510	21-1375-51
89470740	10-10221S
8970107270	36-2254
8970155460	10-10502
8970155462	10-10502
8970155470	10-10503
8970155471	10-10503
8970156100	21-1437-67
8970156110	21-1312-66

Isuzu	
8970228160	21-1750-51
8970228170	21-1562-66
8970231081	32-04030
8970336730	38-962-45
8970338641	10-2239
8970378020	21-1812-51
8970884600	22-2013-1
8971102560	10-10221S
8971197510	10-10220S
8971203070	38-223-55
8971319620	10-10740
8971363280	32-04030
8971467330	38-520-45
8971482961	36-2291
8971891140	10-2238
8972098762	10-13122
8972098763	10-13122
897212571	22-1343-1
8972125720	22-1264-1
8972129940	38-299-45
8973096751	10-3200
8973096753	10-3201
8973096771	10-3201
8980169730	10-3200
8980169741	10-3201
8980258250	32-04041
94029347	30-7656
94424506	30-8291

## Jaguar

C29122	21-1875-53
C29124	21-1750-67
C29380	21-1500-71
C29383	21-1750-63
EAC1953	21-2000-50
EAC3639	21-1750-63
EAC3641	21-1562-75
EAC6435	21-1375-59
EAC6437	21-1500-76
EBC3471	21-1562-75

## Kia

OK01G12101A	36-2292
OK0312121	10-10815
OK24712111	10-2196
OK24712121	10-2197
OK2NC12111	10-13038
OK2NC12121	10-13039
OK30E12111	10-2194
OK30E12121	10-2195
OK95412111	10-10814
OKL0110155	38-998-45
221143C100	30-3152
2221126600	10-3065
2221135510	10-10810
2221137201	10-10808
2221235500	10-10811
2221237200	10-10809
2222322001	34-5028
222243C100	38-6103-55
222243CAA0	38-6103-55
2223126011	36-2289
22242G000	38-6101-55
2461033050	36-2274
K01312121	10-10815
OF3P12121	10-10815

## Mahle Clevite

1265210	34-811
2111058	10-211
2111073	10-210

Mahle Clevite	
2111076	10-212
2111094	10-298
2111112	10-199
2111162	10-302
2111195	10-257
2111226	10-349
2111264	10-376
2111280	10-1193
2111280.015	10-1193+15
2111280003	10-1193+3
2111292	10-308
2111378	10-494
2111401	10-1192
2111549	10-303
2111562	10-121
2111563	10-122
2111591	10-185
2111591	10-185
2111625	10-520
2111654	10-548
2111656	10-514
2111656	10-514
2111657	10-518
2111658	10-550
2111679	10-1206S
2111700	10-567
2111701	10-1265
2111701.015	10-1265+15
2111701.015	10-1265+15
2111705	10-564
2111742	10-577
2111743	10-576
2111830	10-627
2111834	10-373
2111836	10-637
2111836.003	10-637+3
2111836.015	10-637+15
2111885	10-375
2111885.015	10-375+15
2111899	10-1072
2111900	10-958
2111915	10-742
2111932	10-947
2111933	10-1266
2111933.015	10-1266+15
2111933003	10-1266+3
2111934	10-963
2111934.003	10-963+3
2111934015	10-963+15
2111935	10-1358
2111935.003	10-1358+3
2111935.015	10-1358+15
2111936	10-1268
2111936.015	10-1268+15
2111937	10-549
2111939	10-1242
2111939.003	10-1242+3
2111944	10-975
2111947	10-976
2111948	10-969
2111949	10-970
2111952	10-1002
2111963	10-1332
2111964	10-949
2111965	10-1329
2111966	10-938
2111966.005	10-938+5
2111966.015	10-938+15
2111967	10-965S
2111970	10-1120
2111974	10-1164
2111975	10-1047

Mahle Clevite	
2111977	10-974
2111980	10-1107
2111982	10-1048
2112001	10-1106
2112011	10-1000
2112011003	10-1000+3
2112014	10-1457
2112016	10-1001
2112021	10-919
2112022	10-988
2112023	10-1188
2112024	10-1082
2112025	10-1189
2112026	10-1105
2112027	10-1261S
2112047	10-1156
2112048	10-997
2112049	10-996S
2112052	10-1098
2112066	10-1084
2112067	10-1083
2112069	10-1093
2112072	10-1195
2112072003	10-1195+3
2112072015	10-1195+15
2112073	10-1097
2112076	10-1172
2112080	10-1137
2112080.003	10-1137+3
2112080.015	10-1137+15
2112082	10-1170
2112082.003	10-1170+3
2112082.015	10-1170+15
2112085	10-1307
2112087	10-1171
2112089	10-1169
2112089.015	10-1169+15
2112096	10-1087
2112099	10-1135
2112099.003	10-1135+3
2112099.015	10-1135+15
2112104	10-1238
2112104.015	10-1238+15
2112105	10-1237
2112105.015	10-1237+15
2112113	10-1210
2112116	10-1200
2112117	10-1199
2112119	10-1212
2112120	10-1103
2112121	10-1102
2112122	10-09540
2112125	10-09541
2112131	10-1160
2112131	10-1160
2112132	10-1161
2112141	10-1261S
2112142	10-1180
2112145	10-1312S
2112146	10-1186
2112147	10-1326
2112148	10-1273
2112149	10-1257
2112150	10-1258
2112151	10-1325
2112152	10-1260
2112156	10-1272
2112157	10-1271
2112159	10-1324
2112160	10-1296
2112161	10-1281
2112162	10-1263

# O.E. AND COMPETITOR INTERCHANGE

Mahle Clevite		Mahle Clevite		Mahle Clevite		Mahle Clevite	
2112164	10-1285	2112403	10-10083	2112587	10-10106	2112746	10-10104
2112165	10-1245	2112404	10-10065	2112588	10-10107	2112747	10-10105
2112168	10-1293	2112405	10-10064	2112589	10-10176	2112763	10-10117
2112169	10-1300	2112425	10-10307	2112590	10-10177	2112764	10-10116
2112175	10-1292	2112427	10-10308	2112591	10-10308	2112767	10-10141
2112181	10-1294S	2112428	10-10037	2112594	10-10323	2112768	10-10142
2112182	10-1598	2112436	10-1416	2112595	10-10322	2112769	10-10277
2112184	10-1323	2112438	10-1397	2112596	10-10330	2112770	10-10278S
2112193	10-1241C	2112443	10-1419	2112597	10-10328	2112771	10-10624
2112197	10-1597	2112444	10-1417	2112600	10-10334	2112772	10-10625
2112201	10-1322	2112453	10-1395	2112603	10-10328	2113000	10-10141
2112203	10-1318	2112454	10-1394	2112609	10-10217	2113001	10-10142
2112205	10-1321	2112461	10-1242	2112650	10-1479	2113002	10-1553
2112207	10-1320	2112461.015	10-1242+15	2112652	10-1478	2113003	10-1552
2112208	10-1328	2112463	10-1452	2112654	10-10216	2113004	10-1449
2112208.003	10-1328+3	2112464	10-1451	2112658	10-10193	2113005	10-1448
2112208.015	10-1328+15	2112465	10-1434	2112659	10-10186	2113006	10-10145
2112209	10-1327	2112466	10-1433	2112660	10-10188	2113007	10-10146S
2112210	10-1057S	2112471	10-1449	2112662	10-10115	2113008	10-10092
2112213	10-1309	2112472	10-1448	2112663	10-10413	2113009	10-10091S
2112215	10-1312S	2112473	10-10080S	2112664	10-10189	2113010	10-1546
2112235	10-10024S	2112474	10-1470	2112665	10-10113S	2113011	10-1545
2112236	10-10018	2112475	10-1469	2112668	10-10187S	2113012	10-1452
2112240	10-10048	2112480	10-10112	2112669	10-10192	2113013	10-1451
2112274	10-10015	2112481	10-10112	2112672	10-10100S	2113016	10-1486
2112281	10-10036S	2112486	10-1192	2112673	10-10101S	2113017	10-1485S
2112290	10-10031	2112486003	10-1192+3	2112675	10-10218	2113022	10-10117
2112291	10-10033S	2112486015	10-1192+15	2112676	10-10220S	2113023	10-10116
2112296	10-10007	2112497	10-1484	2112677	10-10236	2113024	10-1164
2112305	10-10006	2112498	10-1518	2112679	10-10237	2113025	10-1131
2112306	10-1598	2112499	10-1483S	2112680	10-10060S	2113026	10-10130
2112309	10-1354	2112500	10-1481	2112687	10-1505	2113027	10-10131S
2112311	10-1352	2112501	10-1480	2112688	10-1504	2113028	10-1557
2112317	10-10070	2112504	10-10092	2112692	10-1528	2113029	10-1556
2112318	10-10071	2112505	10-10091S	2112693	10-1527	2113033	10-10118
2112319	10-10072	2112506	10-10098	2112696	10-10386	2113034	10-10153
2112320	10-10069	2112507	10-10097	2112697	10-10385	2113058	10-10126
2112323	10-1362	2112514	10-1450	2112700	10-1553	2113059	10-10128
2112324	10-1361	2112516	10-1401	2112701	10-1552	2113060	10-1594
2112326	10-1349S	2112517	10-1465	2112702	10-1555	2113061	10-1593
2112327	10-10061	2112518	10-1466	2112703	10-1554	2113062	10-10162
2112328	10-10060S	2112519	10-1463	2112706	10-1537	2113063	10-10163
2112334	10-10087	2112520	10-1464	2112707	10-1538	2113063	10-10164
2112335	10-10086	2112537	10-400	2112708	10-1546	2113064	10-10167
2112336	10-1357	2112549	10-1442	2112709	10-1545	2113065	10-10168S
2112340	10-10056	2112550	10-1441	2112710	10-10145	2113066	10-1699
2112341	10-1372	2112554	10-1482S	2112711	10-10146S	2113067	10-1698
2112342	10-1371	2112554	10-1482S	2112715	10-1261S	2113068	10-10154
2112343	10-10369S	2112555	10-10370S	2112715	10-1578S	2113069	10-10155
2112344	10-1370	2112556	10-10367	2112716	10-1087	2113070	10-10235
2112345	10-1369	2112557	10-1485S	2112717	10-1235S	2113175	10-10103
2112346	10-1388	2112558	10-1486	2112720	10-1551	2113176	10-10102S
2112347	10-1387	2112561	10-1543	2112721	10-1550	2113177	10-10169
2112348	10-1381	2112562	10-1542	2112722	10-1569	2113178	10-10170
2112349	10-1382	2112563	10-10268	2112723	10-1568	2113179	10-10098
2112350	10-1383C	2112565	10-10269	2112724	10-1561	2113179	10-10136
2112357	10-1393	2112568	10-10251	2112725	10-1560	2113180	10-1401
2112360	10-1399	2112569	10-10252	2112726	10-1711	2113180	10-1419
2112361	10-1384S	2112570	10-10255	2112727	10-1710	2113181	10-10259
2112364	10-1437	2112571	10-10256	2112728	10-1389	2113182	10-10260S
2112365	10-1438	2112573	10-10262S	2112731	10-1646S	2113185	10-10195
2112366	10-1380	2112576	10-10266	2112734	10-1674	2113186	10-10196
2112366.015	10-1380+15	2112577	10-10267	2112735	10-1673	2113187	10-10414
2112368	10-1386S	2112578	10-10272	2112736	10-1726	2113188	10-10143
2112369	10-1367	2112579	10-10271	2112737	10-1727	2113189	10-10144
2112370	10-10406	2112580	10-10270	2112738	10-1591	2113191	10-10219
2112374	10-10082	2112581	10-10275	2112739	10-1536	2113192	10-10221S
2112375	10-10080S	2112582	10-10276S	2112740	10-1535	2113194	10-10339S
2112384	10-10094	2112583	10-10281	2112741	10-1261S	2113195	10-10340
2112385	10-10093	2112584	10-10282	2112742	10-1592	2113196	10-10147
2112395	10-10093	2112585	10-10279	2112743	10-1559	2113197	10-10148
2112402	10-10076	2112586	10-10280S	2112744	10-1558	2113201	10-1665

# O.E. AND COMPETITOR INTERCHANGE

Mahle Clevite		Mahle Clevite		Mahle Clevite		Mahle Clevite	
2113202	10-1664	2114002	10-1925	2114090	10-1780S	2114176	10-2053
2113205	10-1671	2114003	10-1924	2114091	10-10520	2114177	10-2040S
2113206	10-1670	2114004	10-1730	2114092	10-10521	2114178	10-2101
2113207	10-1703	2114005	10-1731	2114093	10-10522	2114179	10-2126S
2113208	10-1675	2114006	10-1810	2114094	10-10523	2114180	10-1999
2113209	10-1705	2114007	10-1811	2114095	10-1916	2114181	10-1998
2113210	10-1702	2114014	10-10534	2114096	10-1917	2114182	10-2014
2113211	10-1712	2114015	10-10497	2114097	10-10784	2114183	10-2015
2113212	10-1704	2114016	10-10496	2114098	10-2040S	2114185	10-10519
2113213	10-1714	2114017	10-10501	2114099	10-1929	2114187	10-10248
2113214	10-1713	2114018	10-10535	2114100	10-1743	2114188	10-10247
2113215	10-1858	2114019	10-10495	2114101	10-1904	2114218	10-10679
2113216	10-1715	2114020	10-1736	2114102	10-1905	2114219	10-10680
2113217	10-10158S	2114021	10-1737	2114103	10-1938	2114220	10-10737
2113218	10-1735	2114022	10-1902	2114104	10-1939S	2114221	10-10738S
2113219	10-10172	2114023	10-1903	2114105	10-1787	2114222	10-10309
2113220	10-10356S	2114024	10-1941	2114106	10-1788	2114223	10-10734S
2113221	10-10197	2114025	10-1937	2114107	10-10550	2114224	10-10733
2113222	10-10173S	2114026	10-1791	2114108	10-10551	2114225	10-1699S
2113223	10-10350S	2114027	10-1789	2114109	10-1781	2114227	10-10794
2113225	10-10353S	2114028	10-10742	2114110	10-1782	2114228	10-10795
2113228	10-10358S	2114028	10-10122	2114111	10-1729	2114229	10-10285S
2113229	10-10434	2114029	10-10498	2114112	10-1728	2114232	10-10325
2113230	10-10435	2114030	10-10499	2114113	10-1708	2114233	10-1739
2113233	10-1806	2114031	10-10547	2114114	10-1709	2114234	10-10786
2113234	10-1807	2114032	10-10500	2114115	10-1707	2114235	10-10787S
2113235	10-10190	2114033	10-10432	2114116	10-1706	2114242	10-10213
2113236	10-10191	2114034	10-10549	2114117	10-1701	2114243	10-10733
2113237	10-10314	2114035	10-10436	2114118	10-2046	2114244	10-10734S
2113238	10-10315	2114036	10-10225	2114119	10-1790	2114262	10-13073
2113239	10-10473	2114037	10-10227S	2114120	10-1698S	2114262	10-2234
2113240	10-10474	2114038	10-10562	2114121	10-2054	2114263	10-13074
2113243015	10-10387+15	2114039	10-10563	2114122	10-1901	2114264	10-2175
2113244	10-10388	2114040	10-10507	2114123	10-1744	2114265	10-2176
2113244015	10-10388+15	2114041	10-10536	2114124	10-10282S	2114266	10-2103
2113245	10-10421	2114043	10-10234	2114125	10-1934	2114267	10-2220
2113246	10-10420	2114044	10-10525	2114126	10-10166	2114268	10-1997
2113247	10-1913	2114045	10-10437	2114128	10-10321	2114269	10-2010S
2113248	10-1914	2114046	10-10524	2114131	10-10514	2114273	10-1919
2113250	10-696	2114048	10-10548	2114132	10-10512	2114274	10-10798
2113251	10-1194	2114049	10-10723	2114135	10-10229	2114275	10-10799
2113257	10-1548	2114050	10-10724	2114138	10-10552	2114276	10-2179
2113257	10-1548S	2114052	10-10502	2114139	10-10553S	2114277	10-2180
2113258	10-10310	2114053	10-10503	2114140	10-10332S	2114278	10-2118
2113261	10-10273	2114056	10-10243	2114141	10-10137	2114279	10-2119
2113262	10-10305	2114058	10-10140	2114142	10-10324S	2114287	10-10803S
2113263	10-10387	2114059	10-10224	2114143	10-10337	2114288	10-10804S
2113267	10-10224	2114060	10-10226	2114144	10-10338S	2114289	10-2220
2113269	10-10139	2114061	10-10258	2114145	10-10326S	2114304	10-3189
2113270	10-10245	2114062	10-10228	2114146	10-10299	2114305	10-3188
2113271	10-10182	2114063	10-10263	2114147	10-10300	2121013	32-433
2113272	10-10206	2114064	10-10517	2114148	10-2008	2121038	32-529
2113275	10-919	2114065	10-10516	2114149	10-2009	2121050	32-558
2113276	10-1177S	2114066	10-10320S	2114150	10-1992	2121051	32-575
2113280	10-10311	2114067	10-10318	2114151	10-1991	2121059	32-611
2113281	10-10342S	2114068	10-10138	2114152	10-1994	2121061	32-619
2113282	10-1504S	2114069	10-03008	2114153	10-1993	2121065	32-611
2113286	10-10198	2114070	10-03007	2114156	10-10506	2121071	32-672
2113287	10-10244	2114071	10-1921	2114157	10-10157	2121074	32-677-D
2113288	10-10274S	2114072	10-1920	2114158	10-10159	2121078	32-685-D
2113289	10-10333	2114073	10-1918	2114159	10-10515	2121084	32-696
2113290	10-10340	2114074	10-1919	2114160	10-10542	2121092	32-715
2113291	10-10183	2114075	10-1746	2114161	10-10541	2121094	32-887-D
2113292	10-10173	2114076	10-1745	2114162	10-10735	2121106	32-745-D
2113293	10-10220S	2114077	10-1936	2114163	10-10736	2121125	32-778
2113295	10-10207	2114078	10-2044	2114164	10-10739	2121131	32-907-D
2113296	10-10306S	2114079	10-1785	2114165	10-10740	2121135	32-804
2113298	10-1715	2114080	10-1786	2114170	10-2045	2121136	32-807
2113299	10-10388	2114081	10-1346S	2114172	10-1935	2121139	32-812
2113300	10-1547	2114084	10-1931	2114173	10-1870	2121140	32-813
2114000	10-1742	2114088	10-10538	2114174	10-2047	2121141	32-814
2114001	10-1741	2114089	10-10537	2114175	10-1723	2121142	32-1041-D

# O.E. AND COMPETITOR INTERCHANGE

Mahle Clevite		Mahle Clevite		Mahle Clevite		Mahle Clevite	
2121143	32-816-D	2131686	36-976	2154235	74-6366	2173185	30-1972
2121144	32-863	2131692	36-992	2154246	74-6445	2173195	30-7713
2121145	32-864-D	2131703	36-2012	2155220	34-813	2173196	30-7714
2121149	32-869	2131710	36-2056	2161003	38-240-15	2173197	30-9462
2121150	32-880-D	2131721	36-2089	2161055	38-923-35	2173199	30-7711
2121151	32-881-D	2131722	36-2105	2161058	38-905-15	2173200	30-7710
2121153	32-1016-D	2131724	36-2095	2161064	38-907-15	2173201	30-7830
2121154	32-886	2131725	36-2104	2161072	38-259-35	2173205	30-8143
2121163	32-1001	2131730	36-2198	2161103	38-978-55	2173207	30-7659
2121164	32-901-D	2131735	36-6005	2161112	38-937-15	2173208	30-7575
2121165	32-906	2131735	36-2299	2161118	38-964-55	2173209	30-7574
2121167	32-909-D	2131736	36-6003	2161144	38-535-45	2173214	30-7576
2121168	32-943-D	2131738	36-2148	2161160	38-976-45	2173216	30-7577
2121180	32-935-D	2131742	36-2205	2161189	38-828-45	2173226	30-9612
2121185	32-961-D	2131743	36-2217	2161192	38-844-45	2173227	30-9869
2121190	32-999	2131746	36-6000	2161204	38-996-55	2173228	30-9111
2121193	32-1015	2131747	36-2236	2161205	38-701-45	2173229	30-9606
2121197	32-1044	2131749	36-2254	2162502	37-4003	2173230	30-9607
2121198	32-1038-D	2131750	36-2269	2162513	37-1046	2173231	30-9604
2121199	32-1040	2131752	36-2244	2163141	37-6514	2173232	30-9106
2121202	32-1086	2131753	36-6000	2165003	34-03722	2173234	30-9610
2121203	32-1034	2131754	36-2272	2165004	34-237	2173235	30-9113
2121205	32-991	2131756	36-2270	2165005	34-01030	2173236	30-9114
2121206	32-994	2131758	36-2284	2165006	34-613	2173237	30-9191
2121207	32-1088-D	2131759	36-2285	2165007	34-719	2173238	30-9206
2121209	32-891-D	2131760	36-2286	2165008	34-716	2173239	30-9116
2121221	32-1082	2131761	36-2276	2165009	34-5008	2173240	30-9259
2121231	32-1048	2131763	36-2274	2165010	34-510	2173241	30-9609
2121236	32-1131	2131766	36-2271	2165012B	34-07050	2173242	30-9119
2121237	32-1130	2131767	36-2278	2165080	34-746	2173250	30-7205
2121238	32-1106	2141025	42-2921	2165081	34-743	2173253	30-7247
2121239	32-1107	2141035	42-1793	2165096	34-310	2173254	30-7552
2121245	32-1149	2141037	42-2941	2165117	34-555	2173255	30-7272
2121263	32-1125	2141038	42-1772	2165118	34-555	2173262	30-7578
2121268	32-1123	2141047	41-2610	2165144	34-613	2173263	30-7589
2121282	32-1002-D	2141048	41-2600	2165145	34-613	2173264	30-7429N
2121283	32-1096	2141057	41-2504	2165146	34-802	2173264.002	30-7429N+2
2121294	32-1195-D	2141058	42-1740	2165149	34-614	2173265	30-7451N
2121295	32-1196	2141061	42-1704	2165169	34-165	2173265.002	30-7451N+2
2121300	32-1190-D	2141063	42-1776	2165177	34-766	2173274	30-8037
2121303	32-1197	2141073	42-1791	2165181	34-219	2173276	30-7560
2121313	32-1250	2141078	41-2547	2165201	34-620	2173287	30-6906
2121314	32-1246	2141089	42-2948	2165206	34-217	2173291	30-6107
2121317	32-1247	2141091	42-1720	2165213	34-212	2173301	30-7823
2121320	32-1360	2141092	42-1741	2165214	34-213	2173302	30-7662
2121322	32-1244	2141093	42-1721	2165216	34-208	2173303	30-7661
2121323	32-1245	2141096	41-2407	2165217	34-819	2173304	30-9298
2121324	32-1330-D	2142034	40-2859	2165217	34-815	2173305	30-7909
2121326	32-1247	2142037	40-2850	2165221	34-619	2173306	30-7448
2121329	32-1301-D	2142068	41-2507	2165223	34-813	2173307	30-7447
2121330	32-1374	2142069	40-2892	2165228	34-237	2173309	30-7656
2121331	32-1268	2142070	40-2893	2165229	34-716	2173313	30-7873
2121334	32-1289	2142107	41-2548	2165234	34-614	2173314	30-8017
2121338	32-1266-D	2142113	40-2809	2165238	34-746	2173315	30-7826
2121339	32-1304	2142121	40-2867	2165240	34-5007	2173316	30-8196
2121340	32-1386	2154012	74-6034	2173164	30-5604	2173318	30-8202
2121342	32-1258	2154013	74-6317	2173165	30-6106	2173319	30-8201
2121343	32-1368	2154049	74-5312	2173166	30-7459	2173320	30-8020
2121344	32-1370	2154051	74-6279	2173167	30-7946	2173321	30-8021
2121345	32-1242	2154059	74-6105	2173170	30-6110	2173326	30-8038
2121349	32-1303	2154086	74-6230	2173172	30-5612	2173327	30-7669
2121354	32-1299	2154087	74-6380	2173173	30-6113	2173328	30-8014
2121402	32-1265	2154088	74-6306	2173174	30-6119	2173329	30-8015
2131614	36-2032	2154111	74-6324	2173175	30-7554	2173330	30-8016
2131638	36-817CCI	2154113	74-6321	2173176	30-5609	2173331	30-8039
2131656	36-872	2154116	74-6323	2173177	30-6120	2173333	30-7999
2131667	36-900CCI	2154126	74-6105	2173178	30-6869	2173334	30-8037
2131669	36-2083	2154134	74-6281	2173180	30-6111	2173335	30-8114
2131674	36-951	2154154	74-6310	2173181	30-7259	2173336	30-8115
2131675	36-2084	2154161	74-6274	2173182	30-6114	2173337	30-1337
2131679	36-2011CCI	2154170	74-5311	2173183	30-6116	2173338	30-1338
2131685	36-969	2154204	74-6445	2173184	30-1973	2173342	30-1342

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Mahle Clevite		Mahle Clevite		Mahle Clevite		Mahle Clevite	
2173366	30-8147	2174011	30-8205	2184003	25-1750-2	2187493	20-1562-1
2173378	30-8172	2174012	30-8187	2184004	25-1687-2	2187493.005	20-1562-1+005
2173380	30-8142	2174012.002	30-8187+2	2184005	25-1687-5	2187493.010	20-1562-1+010
2173380.002	30-8142+2	2174013	30-8186	2184006	25-1562-1	2187493.015	20-1562-1+015
2173402	30-7499	2174013.002	30-8186+2	2184007	25-1625-4	2187493.030	20-1562-1+030
2173406	30-7545	2174014	30-8141	2184008	25-1875-6	2187495	20-1562-2
2173407	31-7359	2174014.002	30-8141+2	2184009	25-1812-2	2187497	20-1562-4
2173412	31-8206	2174015	30-8140	2184010	25-1500-1	2187497.010	20-1562-4+010
2173413	31-7473	2174015.002	30-8140+2	2184011	25-1625-62	2187499	20-1625-4
2173425	30-7198	2174016	30-8216	2184012	25-1500-13	2187501	20-1625-3
2173426	30-6873	2174017	30-8217	2184013	25-2125-2	2187501.01	20-1625-3+010
2173427	30-8040	2174018	30-8207	2184014	25-1687-51	2187503	20-1687-9
2173428	30-7705	2174019	30-8536	2184015	25-1312-67	2187505	20-1687-6
2173430	30-7583	2174019	30-8589	2184016	25-1625-54	2187506	20-1687-0
2173431	30-9705	2174020	30-8588	2184017	25-1687-4	2187507	20-1750-6
2173434	30-8113	2174020	30-8535	2184018	25-1562-66	2187511	22-1624-1N
2173435	30-8112	2174022	30-9198	2184019	25-1500-63	2187521.010	22-1628-2+010
2173444	30-6905	2174025	30-7538	2184020	25-1500-77	2187521.020	22-1628-2+020
2173449	30-8013	2174026	30-7208	2184021	25-2000-1	2187521.030	22-1628-2+030
2173450	30-7712	2174027	30-7577	2184500	20-1812-4N	2187525	22-1630-1
2173451	30-8147	2174028	30-7822	2184501	20-1437-2N	2187525.005	22-1630-1+005
2173452	30-8219	2174029	30-7830	2184502	20-1562-1N	2187525.010	22-1630-1+010
2173452.002	30-8219+2	2174030	30-8195	2184503	20-1562-2N	2187525.030	22-1630-1+030
2173453	30-7577+2	2174032	30-8198	2184504	20-1687-1N	2187531	20-1562-12
2173454	30-7575+2	2174033	30-8211	2184505	20-1750-2N	2187535	20-1625-1
2173454	30-7575	2174034	30-8212	2184506	20-1562-36N	2187535.005	20-1625-1+005
2173504	30-1504	2174035	30-8156	2184507	20-1625-1N	2187535.010	20-1625-1+010
2173515	30-1515	2174036	30-8155	2184508	20-1750-1N	2187535.015	20-1625-1+015
2173527	30-1527	2174037	30-8324	2184509	20-1812-9N	2187536	20-1625-0
2173609	30-1609	2174038	30-8218	2184510	20-1812-21N	2187537	20-1625-2
2173613	30-1613	2174039	30-8204	2184511	22-1781-1N	2187543	20-1687-5
2173614	30-1614	2174040	30-8193	2187323	20-1000-1	2187545	20-1687-7
2173701	30-1701	2174041	30-7458	2187349	20-1125-1	2187545.005	20-1687-7+005
2173704	30-1704	2174042	30-5607	2187357.010	20-1625-2+010	2187547	20-1687-8
2173732	30-1732	2174043	30-5606	2187361	20-1187-1	2187551	20-1750-7
2173733	30-1733	2174044	30-7298	2187367	20-1250-2	2187553	20-1750-8
2173745	30-1745	2174059	30-6745	2187369	20-1250-1	2187555	20-1750-9
2173758	30-1758	2174071	30-7248	2187370	20-1250-0	2187559	20-1750-0
2173819	30-1819	2174079	30-8662	2187373.010	22-1262-1+010	2187581	20-1687-3
2173839	30-1839	2174080	30-8274	2187373.020	22-1262-1+020	2187583	22-1744-1N
2173840	30-1840	2174081	30-8675	2187373.030	22-1262-1+030	2187585	20-1750-3
2173900	30-1900	2174083	30-9108	2187379	20-1375-8	2187587	20-1750-4
2173918	30-1918+2	2174084	30-9459	2187389	20-1312-1	2187595	20-1812-7
2173920	30-1919	2174085	30-9460H	2187390	20-1312-0	2187597	20-1812-11
2173928	30-1928	2174086	30-9607H	2187393	20-1375-3	2187598	20-1812-0
2173937	30-1937	2174087	30-9907	2187395	20-1437-9	2187601	20-1875-12
2173970	31-8202	2174088	30-9946	2187405.030	22-1348-1N+030	2187617	20-1750-2
2173972	30-6097	2174089	30-9460	2187411	20-1375-4	2187619	20-1750-1
2173983	30-7523	2174090	30-6108	2187417	20-1375-5	2187623	20-1812-5
2173984	30-7540	2174093	30-8194	2187418	20-1375-0	2187627	20-1812-9
2173986	30-7541	2174094	30-9105	2187419	20-1437-10	2187631	20-1875-9
2173987	30-7532	2174095	30-9110	2187421	20-1437-4	2187635	20-1875-0
2173988	30-7537	2174096	30-9115	2187423	20-1437-8	2187643	20-1937-9
2173989	30-7535	2174097	30-9260	2187424	20-1437-0	2187651	20-1812-1
2173990	30-7529	2174098	30-9458	2187425	20-1500-5	2187661	20-1875-2
2173992	30-7534	2174099	30-9554	2187439	20-1437-3	2187669	20-1937-4
2174000	30-7825	2174100	30-9867	2187441	20-1437-5	2187670	20-1937-0
2174001	30-8192	2174101	30-9964	2187443	20-1500-2	2187677	20-1875-7
2174001.002	30-8192+2	2174102	30-9964H	2187445	20-1500-6	2187677.005	20-1875-7+005
2174002	30-8214	2174103	30-9973	2187447	20-1562-13	2187687	20-1875-1
2174002.002	30-8214+2	2174104	30-3019	2187448	20-1562-0	2187697	20-1937-5
2174003	30-8215	2174105	30-8555	2187450	20-1562-34	2187703	20-2000-6
2174003.002	30-8215+2	2174106	30-8556	2187463	20-1500-1	2187705	20-2000-3
2174004	30-7828	2174107	30-8670	2187464	20-1500-0	2187707	20-2000-21
2174005	30-8180	2174108	30-8671	2187467	20-1500-3+003	2187708	20-2000-0
2174005.002	30-8180+2	2183690	20-1875-1N	2187467	20-1500-3	2187721	22-1952-1
2174006	30-8124	2183732.030	22-2006-1+030	2187471	20-1562-6	2187729	20-1937-1
2174006.002	30-8124+2	2183732020	22-2006-1+020	2187471.01	20-1562-6+010	2187733	20-2000-2
2174008	30-9204	2183786	20-2187-1S	2187473	20-1562-7	2187737	20-2062-8
2174009	30-8158	2184000	25-1812-4	2187481	20-1625-6	2187739.010	22-2088-1+010
2174010	30-8157	2184001	25-1437-2	2187483	20-1625-7	2187739.015	22-2088-1+015
2174011	30-8205+2	2184002	25-1562-36	2187487	22-1516-1	2187739.020	22-2088-1+020

# O.E. AND COMPETITOR INTERCHANGE

Mahle Clevite		Mahle Clevite		Mahle Clevite		Mazda	
2187739.030	22-2088-1+030	2187867	21-1937-52	2193016	96-1010C	BP0512111	10-10234
2187739.043	22-2088-1+043	2187868	21-1562-67	2193041	96-1635C	BP0512121	10-10235
2187739.062	22-2088-1+062	2187869	21-1500-71	2193075	96-1760C	BP0512121A	10-10235
2187751	20-2000-1	2187870	21-1312-59	2193086	96-1062C	BP0512125	32-1430
2187751.02	20-2000-1+020	2187871	21-1750-63	2193133	96-1510SC	BP0612111	10-10234
2187763	20-2125-10	2187875	21-1687-50	2193171	96-35MMC	BPY010290	30-8174
2187765	20-2125-0	2187877.01	22-1628-1N+010	2195016	96-1010SCSS	CA112121	10-13226
2187783	20-2125-1	2187877.013	22-1628-1N+013	2196008	96-1000CCB	CY0110115A	38-6125-55
2187785	20-2187-2	2187877.02	22-1628-1N+020	2197110	96-1260SCB	CY0112125A	32-5009
2187800.01	22-1691-1+010	2187877.03	22-1628-1N+030	2198016	96-1010CB	E92Z6510A	30-8142
2187800.020	22-1691-1+020	2187878.01	22-2001-1+010	2198025	96-1135CB	F20112111	10-10162
2187802.02	22-1880-2+020	2187878.013	22-2001-1+013	2198038	96-760CB	F20112121A	10-10163
2187803.02	22-1442-2+020	2187879.010	22-2444-1+010	2198041	96-1635CB	F20212111	10-10162
2187804.02	22-1505-1+020	2187879.020	22-2444-1+020	2198075	96-1760SCB	F21012121A	10-10164
2187808.01	22-2150-1+010	2187880	20-2562-1	2198133	96-1510SCB	F21012121B	10-10164
2187808.02	22-2150-1+020	2187881	20-2250-1	2198171	96-35MMCB	F2Y1230910	30-8142
2187808.03	22-2150-1+030	2187882.005	22-1812-4+005	2303029	42-2661	F57Z6510A	30-8274
2187813.010	22-1442-1+010	2187882.010	22-1812-4+010	L3K912121D	10-13306	F80112111	10-10236
2187813.04	22-1442-1+040	2187882.02	22-1812-4+020	R18E11F	38-938-45	F80112111A	10-10236
2187813.063	22-1442-1+063	2187882.03	22-1812-4+030	R18H08MF	38-535-45	F80112114C	32-1370
2187817.010	22-1161-1+010	2187917.01	20-1750-2+010	VS1610	38-1062-70	F80112115A	32-1368
2187817.020	22-1161-1+020	2187918	21-1625-62	VS1811	38-1054-70	F80112121	10-10237
2187817.030	22-1161-1+030	2187919	21-1437-65	VS1812	38-1068-70	F80123090	30-8172
2187817.04	22-1161-1+040	2187920	22-1669-1	VS55	38-819-45	F80412121	10-10237
2187817.062	22-1161-1+062	2187921	20-1937-23	VS56	38-921-25	F8B512100B	36-2254
2187819	20-1437-2	2187922	21-1437-62	VS64	38-108-45	FB0123200	30-8172
2187820	20-1687-2	2187924	21-1562-66	<b>Mazda</b>		FS0112111A	10-10562
2187820.01	20-1687-2+010	2187925	21-1687-54	022112123	34-213	FS0112111B	10-10562
2187821	21-1750-52	2187926	21-1500-73	029012111C	10-10061	FS0112111C	10-10562
2187822	21-1500-50	2187927	21-1875-50	029012111D	10-10061	FS0112114	34-212
2187823	21-1750-62	2187937	20-2250-2	030512121	10-10060S	FS0112121A	10-10563
2187824	21-1750-51	2187939	21-1750-68	030512121A	10-10060S	FS0112121B	10-10563
2187825	21-1375-50	2187940	21-1562-72	030523090	30-9557	FS1212101	36-2276
2187826	21-1750-50	2187941	20-2125-2	037012113A	34-212	FSY110280	30-8561
2187827	21-1562-50	2187942	20-2250-35	063610104B	30-8013	G60112111	10-10243
2187828	21-1812-55	2187943	21-1500-74	0BP1B12111	10-10234	G60112121	10-10244
2187829	21-1500-68	2187944	21-1500-77	1F2212431	36-2271	G60212121	10-10244
2187830	21-1750-64	2187945	21-1250-56	1F2212431	36-7005	HE1910155	38-966-55
2187831	21-1500-54	2187946	21-1312-67	22112123	34-213	HE1912121	10-10060S
2187832	21-1437-60	2187947	20-1812-4	37012113	34-212	JE0112111	10-10245
2187833	21-1500-69	2187949	20-1437-1	55323200	30-8171	JE0612121A	10-10246S
2187834	21-1375-55	2187950	21-1500-65	60323200	30-8171	JE1512121	10-10246S
2187835	21-1687-53	2187951	21-1625-54	817310155.A	38-966-55	JE2612111	10-10247
2187836	21-1437-61	2187952	20-2062-1	817312121	10-10060S	JE2612121	10-10248
2187837	21-1625-59	2187978.062	22-2444-1+062	AM01109V50	21-1875-51	JEY110290	30-8141
2187838	21-1500-70	2188000	21-1187-51	AM0112121	10-10246S	JEY210280	30-8542
2187839	21-1500-56	2188001	22-1339-2	AM15109V6	21-1625-56	JEY210290	30-8541
2187840	21-1250-50	2188002.010	22-1628-3+010	AM1512111	10-10145	JF0112100	36-2254
2187841	20-2375-2	2188002.020	22-1628-3+020	AM15129X0	36-6000	JFY110290	30-8140
2187842	21-1375-51	2188002.030	22-1628-3+030	B30112111	10-10118	JFY112100	36-2254
2187843	21-1500-62	2188003.010	22-1819-1+010	B30112121	10-10153	K80112121	10-10515
2187844	21-1750-61	2188003.020	22-1819-1+020	B54112111	10-10512	KF0112111A	10-10514
2187845	21-1437-57	2188004	20-1562-36	B54112121	10-10513	KL0110155	38-998-45
2187846	21-1312-53	2188005	20-1687-1	B62A12121	10-10513	KL0112101B	36-2276
2187847	21-1875-51	2188006	20-1687-18	B63010155	38-997-45	KL0112111A	10-10550
2187848	21-1625-56	2188007	20-1812-12	B63012111	10-10154	KL0112111B	10-10550
2187849	21-1500-52	2188008	20-1875-6	B63012121	10-10155	KL0112121	10-10551
2187850	21-1312-52	2188009	20-2125-34	B66010155	38-475-45	KL0112121A	10-10551
2187852	21-1812-51	2188010020	22-2006-5+020	B66012101	36-2276	KL0210155	38-998-45
2187854	21-1625-53	2188011	20-1375-1	B66012111	10-10157	KL3112101	36-7017
2187855	21-1812-54	2188012	20-1812-2	B66012121	10-10159	L3K912111	10-13305
2187856	21-1812-56	2188013	20-1937-17	B69512111	10-10157	L3K912121C	10-13306
2187857	21-1625-60	2188014	21-1687-51	B69512121B	10-10159	L3Y110281	30-3162
2187858	21-1500-59	2188439	20-1437-3	B6S712111	10-10157	L80710155	38-6105-55
2187859	21-1812-53	2188461	21-1500-63	B6Y010290	30-8205	LF0110155	38-6105-55
2187860	21-1500-61	2188463	20-1500-1	B6Y110281	30-8205	LF0112111	10-2006
2187861	21-1937-51	2188581	20-1687-3	B6Z010280	30-8187	LF0112114	34-5024
2187862	21-1625-58	2188661	20-1875-2	B6Z010290	30-8186	LF0112121	10-2007
2187863	21-1750-59	2188807	20-2250-2	B6Z110180	30-8173	LF0112125	32-04059
2187865	21-1625-52	2191008	96-1000CC	B6Z110280	30-8173	LF0212114	34-5024
2187866	21-1375-56	2191009	96-1062CC			LF5012125A	32-04062
2187866	21-1437-56	2191010	96-1125CC			Z5Y110280	30-8587

# O.E. AND COMPETITOR INTERCHANGE

Mazda		Mitsubishi		Moresa		Moresa	
ZZJ110155B	38-6125-55	MD008760	34-819	H396	36-7005	S7066	10-2007
ZZJ112111	10-13225	MD0127847	10-10126	H397	36-2305	S7068	10-13191
ZZJ112121	10-13226	MD014619	10-10146	H399	36-7078	S7070	10-1788
ZZL010155	38-812-45	MD024499	10-10091S	H400	36-7085	S7072	10-13042
ZZL012111	10-10387	MD024539	10-10091S	H402	36-7089	S7074	10-03034
ZZL012115	32-1684	MD024638	10-10092	H403	36-2272	S7076	10-30119
ZZL012121	10-10388	MD04667969	10-1730	H405	36-2274	S7078	10-10116
ZZL012431	36-2244	MD04667972	10-1731	H410	36-2236	S7080	10-2040S
ZZM012111	10-1598	MD050523	30-7850	HR300	36-2244	S7082	10-3191
ZZM012121	10-1597	MD050527	30-7851	HR348	36-2104	S7084	10-13335
ZZM012431	36-2012	MD061895	34-813	HR353	36-2279	S7086	10-13183
ZZM023090	30-8274	MD083849	10-10145	HR355	36-2148	S7090	10-2248S
ZZM112111	10-1536	MD083850	10-10146	HR356	36-2217	S7092	10-13046
ZZM112113	34-619	MD083851	10-10146	HR373	36-2205	S7094	10-3079
ZZM112121	10-1535	MD092999	10-10146	HR375	36-2269	S7098	10-13266
ZZM112431	36-2205	MD096219	10-10625	HR376	36-2270	S7100	10-2180
ZZM312111	10-1743	MD126605	30-8193	HR384	36-2148	S7102	10-30123
ZZM312114	34-281	MD149309	36-2274	HR389	36-7111	S7104	10-30113
ZZM312121	10-1744	MD149314	10-10497	HR389K	36-7102K	S7106	10-10803S
<b>Mercedes Benz</b>		MD162616	10-10499	HR389KF	36-7104K	S7112	10-13252
1100530731	21-1875-55	MD172527	30-8554	HR390	36-7110	S7114	10-03032
1100531532	21-1625-64	MD172530	30-8571	HR390KR	36-7103K	S7120	10-2240
1160531031	21-1625-64	MD184303	38-553-55	M402	36-992	S7122	10-10799
1170530232	21-1625-64	MD197467	38-964-55	M410	36-2084	S7124	10-13226
1170530531	21-1812-60	MD198404	10-3186	S2090	10-400	S7126	10-13087
6110530329	30-3255	MD198406	10-3187	S2090+15	10-400+15	S7128	10-30127
9060500226	10-3188	MD300702	30-8554	S2309	10-1265	S7130	10-30117
9060500326	10-3188	MD301339	10-10624	S2309+15	10-1265+15	S7132	10-03036
9060500327	10-3189	MD301340	10-10625	S2505	10-1329	S7134	10-30121
9060500626	10-3188	MD306078	38-996-55	S2505+15	10-1329+15	S7138	10-1999
9060500627	10-3189	MD306079	38-996-55	S2529	10-1242	S7140	10-1921
9060500726	10-3188	MD307343	38-996-55	S2529+15	10-1242+15	S7142	10-1992
9060500727	10-3189	MD337687	36-2274	S2678	10-1307	S7144	10-1914
9060530129	30-3276	MD339767	36-6000	S2678+15	10-1307+15	S7146	10-1786
9060530130	30-3285	ME051034	22-2052-2	S2695	10-1135	S7150	10-3201
9060530131	22-1382-2	MN183952	38-6101-55	S2695+15	10-1135+15	S7154	10-3075
9060531232	22-1578-1	MR994497	10-3080	S2695+3	10-1135+3	S7156	10-13234
A6110530232	22-1088-1	MR994498	10-3081	S3093	10-1394	S7158	10-13264
A6110530431	22-1160-1	<b>Moresa</b>		S3093+15	10-1394+15	S7160	10-13195
A6120500058	38-5080-55	AS9830	10-09830	S3093+3	10-1394+3	S7162	10-13343
A6420500080	36-7561	AS9832	10-09832	S3188	10-1480	S7166	10-13289
A6420500527	10-13357	AS9858	10-3045	S3188+15	10-1480+15	S7168	10-10781
A6420530401	10-13356	AS9858	10-3045	S3188+3	10-1480+3	S7170	10-3205
<b>Mini</b>		AS9952	10-10146S	S7002	10-10549	S7180	10-3063
11341438142	34-5033	AS9954	10-10091S	S7004	10-10813	S7200	10-3402
11341485585	10-13222	B209H	40-2809	S7006	10-13295	S7946	10-3044
11341485590	32-5022	H202	36-2095	S7008	10-30103	S9504	10-742
11347533884	10-13321	H301	36-969	S7010	10-10525	S9504+15	10-742+15
11347533885	10-13322	H303	36-2083	S7012	10-10435	S9538	10-09538
11347547187	10-13325	H307	36-900CCI	S7014	10-3181	S9539	10-1237
11347562716	32-5021	H324	36-2011CCI	S7016	10-10805S	S9539+15	10-1237+15
11347585901	10-13324	H329	36-2011CCI	S7018	10-1271	S9541	10-09541
11347587470	10-13323	H330	36-2105	S7020	10-10625	S9542	10-09542
<b>Mitsubishi</b>		H331	36-2089	S7022	10-2047	S9549	10-1312S
2211221900	21-1437-57	H335	36-2056	S7028	10-10116	S9555	10-1325
2211224900	21-1437-63	H338	36-2012	S7030	10-10191	S9555+15	10-1325+15
2211321930	21-1312-53	H341	36-2278	S7032	10-10198	S9557	10-1326
2211324900	21-1312-53	H343	36-817CCI	S7034	10-2119	S9557+15	10-1326+15
2211411050	30-7576	H344	36-2271	S7036	10-10499	S9561	10-09561
2211421900	30-7578	H371	36-2297	S7038	10-10128	S9563	10-10006
2211432901	30-7576	H377	36-6000	S7040	10-10260S	S9572	10-09572
2211511050	30-7577	H378	36-2251	S7042	10-10227S	S9574	10-10364S
2211521900	30-7589	H379	36-2254	S7044	10-10538	S9578	10-10256
2211532901	30-7575	H381	36-2198	S7046	10-10302	S9580	10-10252
2221124504	10-10136	H383	36-7101	S7048	10-10474	S9582	10-1469
2461032824	36-6000	H387	36-7082	S7050	10-10306S	S9582+15	10-1469+15
M04667139	40-2702	H388	36-2273	S7052	10-3187	S9584	10-1448
M04667810	10-1731	H391	36-7075	S7054	10-10542	S9588	10-1597
		H392	36-7076	S7056	10-3089	S9588+15	10-1597+15
		H393	36-7561	S7058	10-03030	S9599	10-09599
		H394	36-2289	S7060	10-3087	S9604	10-1552
				S7064	10-1994	S9606	10-1554

# O.E. AND COMPETITOR INTERCHANGE

Moresa		Moresa		Moresa		Moresa	
S9611	10-1560	S9892	10-1935	V7031	10-10197	V9554	10-1260
S9611	10-1811	S9894	10-1919	V7033	10-2118	V9554+15	10-1260+15
S9611+15	10-1560+15	S9898	10-2220	V7035	10-10498	V9556	10-1258
S9616	10-10131S	S9904	10-1936	V7037	10-10126	V9556	10-1258+3
S9620	10-10356S	S9906	10-1791	V7039	10-10259	V9556+15	10-1258+15
S9641	10-1675	S9908	10-1708	V7041	10-10226	V9560	10-09560
S9641+15	10-1675+15	S9912	10-1941	V7043	10-10537	V9564	10-10007
S9648	10-1135	S9918	10-1670	V7045	10-10103	V9571	10-09571
S9648+15	10-1135+15	S9922	10-1905	V7047	10-10321	V9573	10-10363
S9648+3	10-1135+3	S9926	10-1300	V7049	10-10305	V9577X	10-10255
S9654	10-10274S	S9928	10-10097	V7051	10-3186	V9579X	10-10251
S9659	10-1358	S9932	10-10093	V7053	10-10541	V9583	10-1449
S9659+15	10-1358+15	S9936	10-10220S	V7055	10-3088	V9587	10-1598
S9661	10-1358	S9938	10-10060S	V7057	10-03029	V9587+15	10-1598+15
S9661+15	10-1358+15	S9940	10-10237	V7059	10-3086	V9598X	10-10358S
S9665	10-1266	S9942	10-10163	V7061	10-1901	V9600	10-1481
S9665+15	10-1266+15	S9944	10-10164	V7063	10-1993	V9600+15	10-1481+15
S9668	10-1169	S9946	10-10142	V7065	10-2006	V9601	10-1470
S9668+15	10-1169+15	S9948	10-10146	V7067	10-13190	V9601+15	10-1470+15
S9670	10-1106	S9950	10-10146	V7069	10-1787	V9603	10-1553
S9670+15	10-1106+15	S9956	10-10501	V7071	10-13240	V9605X	10-1555
S9680	10-1715	S9958	10-10535	V7073	10-03033	V9610	10-1561
S9683	10-1135	S9960	10-10033S	V7075	10-30118	V9610+15	10-1561+15
S9683+15	10-1135+15	S9966	10-10269	V7077	10-10213	V9615X	10-10130
S9683+3	10-1135+3	S9968	10-10282	V7079	10-10784	V9619	10-10350S
S9689	10-1192	S9972	10-10037	V7081	10-3190	V9649	10-1137
S9724	10-1504	S9974	10-10330	V7083	10-13334	V9649+15	10-1328+15
S9728	10-1731	S9978	10-10386	V7085	10-13182	V9649+3	10-1328+3
S9730	10-1670	S9982	10-1437	V7089	10-2247	V9655	10-10273
S9732	10-1713	S9984	10-1556	V7091	10-13179	V9658	10-09658
S9734	10-10388	S9986	10-1465	V7097	10-13265	V9660	10-1120
S9736	10-1737	S9988	10-10144	V7099	10-2179	V9660+15	10-1120+15
S9738	10-10225	S9990	10-10221S	V7101	10-30122	V9666	10-1357
S9740	10-1710	S9992	10-10306S	V7103	10-30112	V9667	10-1268
S9742	10-1746	S9994	10-1597	V7105	10-1929	V9667+15	10-1268+15
S9744	10-1729	S9996	10-1397	V7111	10-13251	V9669	10-1170
S9746	10-10229	S9998	10-10244	V7113	10-03031	V9669+15	10-1170+15
S9748	10-10356S	V2231	10-399	V7115	10-3064	V9679	10-1714
S9750	10-10734S	V2231+15	10-399+15	V7119	10-2241	V9684	10-1328
S9756	10-1542	V2275	10-308	V7121	10-10798	V9684+15	10-1328+15
S9758	10-1917	V2310	10-567	V7123	10-13225	V9684+3	10-1328+3
S9760	10-1735	V2310+15	10-567+15	V7125	10-13086	V9723	10-1505
S9762	10-10285S	V2348	10-637	V7127	10-30126	V9727	10-1730
S9764	10-1807	V2348+15	10-637+15	V7129	10-30116	V9729	10-1671
S9768	10-996S	V2483	10-947	V7131	10-03035	V9731	10-1712
S9770	10-1702	V2483+15	10-947+15	V7133	10-30120	V9733X	10-10387
S9784	10-3097	V2506	10-938	V7137	10-1998	V9733X+15	10-10387+15
S9804	10-400	V2506+15	10-938+15	V7139	10-1920	V9735	10-1736
S9820	10-1535	V2552	10-696	V7141	10-1991	V9737X	10-10224
S9822	10-1451	V2552+15	10-696+15	V7143	10-1913	V9739	10-1711
S9824	10-1698	V2696	10-1137	V7145	10-1785	V9741X	10-1745
S9826	10-1742	V2696+15	10-1137+15	V7149	10-3200	V9743	10-1728
S9828	10-10036S	V2812	10-1180	V7153	10-3074	V9745	10-10228
S9834	10-2009	V2812+15	10-1180+15	V7155	10-13233	V9749X	10-10733
S9836	10-2035	V2985	10-1328	V7157	10-13263	V9755	10-1543
S9838	10-1811	V2985+15	10-1328+15	V7159	10-13194	V9757	10-1916
S9840	10-3003	V2985+3	10-1328+3	V7161	10-13342	V9759	10-1858
S9842	10-10557S	V3103	10-1395	V7165	10-13288	V9761X	10-10284
S9844	10-2126S	V3103+15	10-1395+15	V7167	10-10780	V9763	10-1931
S9848	10-1925	V7001	10-10547	V7169	10-3204	V9767	10-1087
S9850	10-1758	V7003	10-3065	V7173	10-3094	V9769	10-1703
S9852	10-10787S	V7005	10-13294	V7179	10-3062	V9783	10-3096
S9854	10-1389	V7007	10-30102	V7199	10-3401	V9813	10-1195
S9856	10-2010S	V7009	10-10524	V7947	10-3043	V9815X	10-09815
S9866	10-03005	V7011	10-10434	V7947X	10-3043	V9816X	10-09816
S9868	10-3103	V7013	10-3180	V9535	10-1238	V9818	10-1393
S9876	10-1744	V7015	10-10804S	V9535+15	10-1238+15	V9818+15	10-1393+15
S9878	10-10536	V7017	10-1272	V9536	10-09536	V9819	10-1536
S9880	10-10282	V7019	10-10624	V9536+15	10-09536+15	V9819+15	10-1536+15
S9882	10-10793S	V7021	10-2046	V9536+3	10-09536+3	V9821	10-1452
S9884	10-10356S	V7027	10-10213	V9540	10-09540	V9823	10-1699
S9886	10-10517	V7029	10-10190	V9548	10-1186	V9823+15	10-1699+15



# O.E. AND COMPETITOR INTERCHANGE

Moresa		Nissan		Nissan		Nissan	
V9825X	10-1741	1109853F61	21-1500-74	1320155M01	10-10257	1320271J00	10-10225
V9827	10-10015	1109853J60	21-1437-71	1320155M10	10-10257	1320284A00	10-10260S
V9833	10-2008	1109857Y60	21-1250-54	1320157Y00	10-10224	1320299B00	10-03038
V9837	10-1810	1109877A60	21-1250-50	1320169A00	10-10255	1320299B10	10-03038
V9839	10-3002	1109897E60	21-1500-77	1320170N00	10-10224	132029E000	10-10793S
V9839X	10-3002	11098D2010	21-1750-64	1320184A00	10-10259	132029N00A	10-13221
V9841	10-10556	11098F6510	21-1500-74	1320199B00	10-03037	13202BO3GO	10-10252
V9843	10-2101	11098H7211	21-1500-52	1320199B10	10-03037	13202D0100	10-10271
V9847	10-1924	11098H7503	21-1562-66	132019E000	10-10792	13202D1200	10-10271
V9851	10-10786	11098K0400	21-1812-50	132019N00A	10-13220	13202D2800	10-10262S
V9853X	10-1388	11098K0510	21-1625-50	13201A1100	10-10015	13202D4201	10-10258
V9855	10-13293	11098N4210	21-1750-52	13201BO3GO	10-10251	13202EB70A	10-30113
V9855X	10-1997	11098N6810	21-1812-50	13201D0200	10-10272	13202ED000	10-13234
V9857	10-3046	11098U8710	21-1812-51	13201D2000	10-10270	13202ED00C	10-13234
V9857X	10-3046	11098U8711	21-1812-51	13201EB300	10-30112	13202EN200	10-3087
V9865	10-03004	11098V0700	21-1687-53	13201EB70A	10-30112	13202EN20B	10-3087
V9867	10-3102	11098V5210	21-1812-55	13201ED000	10-13233	13202H6200	10-10033S
V9875	10-1743	11098V5211	21-1812-55	13201ED00A	10-13233	13202JA00A	10-13080
V9877	10-10224	11098V7010	21-1687-53	13201ED00C	10-13233	13202JA10A	10-13221
V9879	10-10281	1109901M01	21-1312-57	13201EN20A	10-3086	13202JA15A	10-13080
V9879X	10-10281	1109901M02	21-1312-57	13201EN20B	10-3086	13202JG30A	10-13080
V9881	10-10792	1109910W10	21-1625-60	13201F6510	10-10284	13202JK21A	10-13221
V9883	10-10158S	1109915M01	21-1312-62	13201F6511	10-10284	13202JK21B	10-13221
V9885X	10-10516	1109916A10	21-1375-55	13201H6200	10-10031	13202L2000	10-10276S
V9891	10-1934	1109921011	21-1500-53	13201JA00A	10-13079	13202N0400	10-10036S
V9895	10-1918	1109940F60	21-1687-56	13201JG30A	10-13079	13202N0401	10-10036S
V9897	10-2103	1109945V10	21-1312-63	13201JK20A	10-13220	13202N0410	10-10036S
V9903	10-2044	1109945V11	21-1312-63	13201JK20B	10-13220	13202N0411	10-10036S
V9905	10-1789	1109953F60	21-1312-52	13201L2000	10-10275	13202N8500	10-10269
V9907	10-1709	1109953J60	21-1250-57	13201N4200	10-10056	13202P7900	10-10278S
V9911	10-1937	1109953Y60	21-1062-50	13201N7000	10-10015	13202P7901	10-10278S
V9917	10-1870	1109953Y61	21-1062-50	13201N8501	10-10268	13202V0701	10-10280S
V9921	10-1904	1109960u60	21-1375-60	13201OM200	10-10224	13202V5210	10-10282
V9925	10-1285	1109984A60	21-1375-51	13201P7900	10-10277	13202V6510	10-10282
V9927	10-10098	1109988A60	21-1375-51	13201V0700	10-10279	13202VJ200	10-10793S
V9931	10-10094	1109997E60	21-1312-52	13201V5202	10-10281	13202W0401	10-10267
V9935	10-10218	11099A8610	21-1500-53	13201V7100	10-10281	13202Y8780	10-10267
V9937	10-10061	11099D4210	21-1250-56	13201VJ200	10-10792	1320338U00	32-04005
V9939	10-10236	11099H6210	21-1312-52	13201W0401	10-10266	132033Z005	32-5006
V9941	10-10162	11099N6800	21-1500-54	13201Y8780	10-10266	132033Z015	32-5007
V9945	10-10141	11099N6810	21-1500-54	1320201M00	10-10252	1320340F11	32-1530
V9949	10-10145	11099U0610	21-1500-54	1320205M00	10-10252	1320353Y00	32-04007
V9951	10-10145	11099V0700	21-1437-61	1320208000	10-09542	1320358S00	32-04048
V9953	10-10092	11099V0710	21-1437-61	132020B000	10-10282S	1320397E00	32-04006
V9955	10-10500	11099V5210	21-1500-68	132020M200	10-10536	1320397E02	32-04006
V9957	10-10534	11099W0410	21-1625-53	132020Z800	10-2182S	13203E4100	32-1066
V9959	10-10031	1201030W01	30-7828	1320216A00	10-10262S	13203F2000	32-1066
V9965	10-10268	1201083W01	30-7828	1320216A01	10-10262S	13203H1000	32-1048
V9967	10-10281	1320101M00	10-10251	1320224W00	10-09572	13203JA00B	32-5006
V9971X	10-10048	132010B000	10-10281	132022J201	10-10795	13203JA00C	32-5007
V9973	10-10328	132010Z800	10-2181	132022J202	10-10795	1320423000	32-1047
V9975	10-10328	132011E700	10-10228	1320230P00	10-10285S	1320440F01	32-1537
V9977	10-10385	132011EJ00	10-10228	1320231M00	10-10256	1320442200	32-1400
V9981	10-1438	1320124W00	10-09571	1320238U00	10-10538	1320701M00	38-988-55
V9983	10-1557	132012J200	10-10794	132023Z000	10-3181	1320701M01	38-988-55
V9985	10-1466	132012J201	10-10794	132023Z11A	10-3181	132070B000	38-985-55
V9987	10-10143	132012J202	10-10794	1320240F01	10-10274S	1320721002	38-962-45
V9989	10-10219	132012Y900	10-10537	1320240P00	10-10285S	132072B500	38-503-55
V9991	10-10305	1320130P00	10-10284	1320242E00	10-10282	1320753F00	38-985-55
V9993	10-1598	1320131M00	10-10255	1320250A00	10-10252	1320753Y00	38-53-45
V9995	10-1598	1320138U00	10-10537	13202515GO	10-09572	1320755Y00	38-53-45
V9997	10-10243	132013Z00A	10-3180	1320253F00	10-10227S	1320777A00	38-518-45
		1320140F00	10-10273	1320253F01	10-10227S	1320781W00	38-962-45
		1320140F10	10-10273	1320253J00	10-10229	13207D0100	38-985-55
		1320140F11	10-10274S	1320253Y00	10-10225	13207D0111	38-985-55
1109801M00	21-1562-66	13201515GO	10-09571	1320257Y00	10-10225	13207D4200	38-994-55
1109807W10	21-1812-54	1320151E00	10-10263	1320264M00	10-10258	13207D4201	38-994-55
1109808U10	21-1500-77	1320151E10	10-10263	1320264M10	10-10258	13207H7200	38-961-55
1109810W10	21-1812-56	1320153F01	10-10226	1320264Y00	10-10229	1321001M00	34-5007
1109816A10	21-1500-69	1320153F02	10-10226	1320267U00	10-10286S	1321001M01	34-5007
1109840F60	21-1500-53	1320153J00	10-10228	1320267U01	10-10286S	1321040F00	34-5010
1109853F60	21-1500-74	1320153Y00	10-10224	1320269A00	10-10256	1321053Y00	34-5012

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Nissan		Peugeot		Precision Engine Parts		Precision Engine Parts	
13210D4200	34-5010	094891	10-30116	051640	32-04013	236440	38-6128-55
13210U0100	34-819	094959	10-30117	051680	32-1680	236463	38-571-45
13210ZX00G	34-5012	<b>Precision Engine Parts</b>		051684	32-1684	275562	38-160-55
13211AA030	38-1321-55	0501379	32-02061	052212	32-2212	276435	38-503-55
13211V1700	30-8209	0501398	32-2486	052475	32-2475	276438	38-299-45
1321201M01	30-7825	0501437	32-04017	052482	32-2482	276455	38-980-45
1321201M11	30-7825	0501457	32-04041	052498	32-2234	276472	38-292-45
1321215M01	30-7825	0501458	32-04040	052500	32-2500	276493	38-226-45
1321215M11	30-7825	0501484	32-04053	052522	32-2522	276495	38-46-45
1321221011	30-7499	0501488	32-04046	052811	32-04029	276496	38-124-45
1321240F60	30-8211	0501588	32-5001	053404000	52-4040	276500	38-588-45
1321253460	30-8218	0501601	32-5022	053404100	52-4041	3008V	38-824-45
1321253J60	30-8216	0501625	32-5021	053405300	52-4053	312470	38-812-45
1321253Y60	30-8213	050472	32-04036	053574700	32-1943-D	312500	38-804-45
1321258S60	30-8190	050611	32-611	059010480	34-5001	312501	38-8500-55
1321260U60	30-8211	050619	32-619	059011050	34-5009	312531	38-8530-55
1321277A60	30-8214	050672	32-672	059109700	34-5020	313500	38-805-55
13212B16U003	30-3244	0506857	32-685-D	059117060	34-555	313525	38-345-55
13212D0110	30-7826	050696	32-696	0591211128	34-5031	313552	38-809-45
13212D0111	30-7826	050778	32-778	059144526	34-613	315530	38-936-45
13212ED060	30-3290	0507867	32-786-D	059199500	34-619	315565	38-173-45
13212EN20A	30-3244	050807	32-807	059201500	34-620	32473	38-535-45
13212F6560	30-8543	050812	32-812	059211054	34-235	32473	38-535-45
13212H2311	30-7545	050812	32-812	059211058	34-5011	32473-P	38-535-25
13212H8510	30-7545	050812	32-812	059211059	34-5007	32474	38-938-45
13212V5010	30-7873	050813	32-813	059211086	34-719	32505	38-821-45
13212V5011	30-8388	050814	32-814	059211104	34-5024	32623	38-844-45
13212V5011	30-7873	0508157	32-815-D	059211127	34-5032	32689	38-978-55
13212W0510	30-7828	0508647	32-864-D	059212100	34-212	32689	38-3995-55
13212ZJ80A	30-3244	050869	32-869	059213100	34-213	32689	38-3995-55
1321301M11	30-8192	0508807	32-880-D	0592366MM	34-5021	32691	38-830-45
1321321011	30-7499	050883	32-883	059237060	34-237	32744	38-322-45
1321331U60	30-8217	0508847	32-884-D	0592455.5	34-5008	32951	38-530-25
1321340F60	30-8212	0508877	32-887-D	059273300	34-5030	32967	38-031-45
1321344F60	30-8217	0508917	32-891-D	059614200	34-614	32968	38-923-35
1321353F60	30-8204	0509017	32-901-D	059716200	34-716	32969	38-922-35
1321353Y60	30-8218	0509097	32-909-D	059802100	34-03722	32973	38-119-35
1321377A60	30-8215	0509357	32-935-D	059806100	34-00992	32975	38-400-55
13213D0111	30-8233	0509437	32-943-D	059817100	34-00515	343501	38-9500-55
13213D4260	30-8191	0510091	32-1009	059819050	34-819	343530	38-532-55
13213ED060	30-3290	0510111	32-1011	059840100	34-281	343531	38-9530-55
13213EN260	30-3245	051016	32-1016	059841600	34-06513	343562	38-956-45
13213F6560	30-8544	0510387	32-1038-D	059845000	34-07209	45839	38-819-45
13213H2311	30-7542	0510417	32-1041-D	059862100	34-04644	45840	38-819-45
13213U0110	30-7499	051061	32-1061	059886600	34-07050	50273	38-250-35
13213V5010	30-8389	051082	32-1082	12015153	38-978-55	50372	38-4788-35
13213W0410	30-7828	051086	32-1086	1610C	38-1062-70	50377	38-4788-35
13213W0510	30-7828	051125	32-1125	1610C	38-1062-70	50380	38-803-45
13213ZJ80A	30-3245	051135	32-1135	1610C	38-1062-70	52A001	74-6608
13214L2000	21-1625-59	051149	32-1149	1611C	38-1045-70	54173	38-935-45
13214Y5200	21-1562-68	051166	32-1166	1711C	38-1065-70	54189	38-731-15
13215L2000	21-1500-70	051167	32-1167	1812C	38-1068-70	54189-P	38-731-25
13215L2010	21-1500-70	051175	32-1175	196355	38-6130-55	54316	38-928-15
13215Y5200	21-1437-60	051195	32-1195-D	196382	38-6108-55	55105	38-231-15
1323153F02	36-2286	051201	32-1201	197390	38-6120-55	55105	38-231-15
1323153Y01	36-2284	0512207	32-1220-D	2012C	38-1036-70	55112	38-910-15
1323158S12	36-2277	051242	32-1242	216425	38-6125-55	55211	38-255-35
1323179S00	36-2277	051244	32-1244	216435	38-6105-55	55212	38-259-35
13231V5004	36-2198	051245	32-1245	217436	38-6101-55	55215	38-905-15
13231V5014	36-2198	051246	32-1246	233400	38-354-45	55235	38-766-15
332010M200	10-10224	051250	32-1250	233433	38-407-45	55265	38-916-15
F3XY6210A	30-8388	051258	32-1258	234395	38-3500-45	55281	38-950-15
F3XY6510B	30-8389	0512667	32-1266-D	235346	38-9675-45	55298	38-911-15
<b>Perkins</b>		051268	32-1268	235347	38-1329-45	55358	38-530-15
3313E001	30-8013	051278	32-1278	235435	38-247-45	55377	38-780-15
3313E735	30-8013	051284	32-1289	235436	38-6036-55	55386	38-737-15
33261725	30-8013	051290	32-1290	235449	38-586-45	55508	38-925-15
33261741	30-8013	051310	32-1310	236431	38-120-45	55534	38-240-15
<b>Peugeot</b>		0513307	32-1330-D	236431	38-520-45	55577	38-903-15
		051405	32-1405	236435	38-6100-55	55664	38-450-15
		051420	32-1420	236435	38-6100-55	55676	38-921-15
				236436	38-905-45	55676-P	38-921-25

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## Precision Engine Parts

55736	38-713-15
55810	38-256-35
55812	38-260-35
55824	38-253-45
55825	38-254-45
55826	38-252-45
55828	38-929-15
55830	38-915-15
55831	38-6116-45
55834	38-450-45
57000	38-905-25
57002	38-911-25
57003	38-938-25
57004	38-450-25
57005	38-780-25
57006	38-928-25
58012	38-810-45
59553	38-480-45
8274B	31-8274
870-FL	38-800-45
AV7015-EO	38-996-55
AV7245-Q1	38-1321-55
AV7367VI	38-961-55
AV7459-E1	38-962-45
AV8271-F0	38-967-55
AV8271-POLY	38-967-25
AV8637-QO	38-976-45
AV8675-VI	38-965-45
AV8845-PO	38-223-55
B202	31-8202
B205	31-7473
B206B	31-8206
B2074	31-2074
B2075	31-2075
B222F	31-7359
B350F	31-8139
B630	31-03419
B683	31-8560
BV044-EO	38-310-55
BV1483-FO	38-985-55
BV1760-EO	38-988-55
BV1770-EO	38-700-45
BV1883-IO	38-475-45
BV2849-EO	38-997-45
BV3006-FO	38-994-55
BV3159EO	38-569-45
BV3311-EO	38-701-45
BV3558-EO	38-542-55
BV3562-EO	38-518-45
C1701	30-1701
C2059	30-3288
C208	30-7576
C218	30-7545
C219	30-7542
C290	30-7574
C291	30-7575
C292	30-7523
C292+2	30-7523+2
C3047	30-3047
C3070	30-3070
C315	30-7822
C316	30-7714
C316+2	30-7714+2
C335+8	30-8017
C365	30-8115
C366	30-8114
C371	30-8039
C372	30-7825
C491	30-3029
C5009G	30-9298
C506	30-8193
C510A	30-8207

## Precision Engine Parts

C512	30-8541
C513	30-8195
C514	30-8542
C515	30-8211
C528	30-7451N
C533	30-7429N
C535	30-8155
C536	30-8544
C538	30-8158
C539	30-8157
C540	30-8194
C544	30-8142
C546	30-8324
C560	30-8038
C568	30-8156
C587	30-8124
C593	30-8219
C597	30-8293
C624+2	30-8577
C637	30-8204
C683	30-8560
C695	30-3009
C7847	30-7847
C7847	30-7847
C8217	30-8217
C8273	30-8273
C8274	30-8274
C8292	30-8292
C8494	30-8494
C8556	30-8556
C8584	30-8584
C8587	30-8587
C9108	30-9108
D1208	38-1064-75
D1710	38-1046-75
P2054	10-375
P2056	10-373
P2090	10-400
P2090FM	10-400
P2091	10-399
P2185	10-518
P2243	10-520
P2251	10-185
P2275	10-308
P2279	10-548
P2309	10-1265
P2310	10-567
P2311	10-514
P2322	10-577
P2348	10-637
P2383	10-1242
P2456	10-742
P2469	10-919
P2470	10-988
P2471	10-550
P2483	10-947
P2485	10-1332
P2486	10-949
P2488XS	10-1057S
P2494	10-970
P2495	10-969
P2498HPC	10-974
P2499	10-1457
P2505	10-1329
P2506	10-938
P2507+3	10-549
P2530	10-1266
P2531	10-1268
P2533	10-963
P2536	10-1120
P2546HPC	10-1072
P2552	10-1195

## Precision Engine Parts

P2552CFM	10-1195
P2562HD	10-1164
P2563	10-1000
P2563C	10-1000
P2564	10-1001
P2604	10-1441
P2605	10-1442
P2618	10-1105
P2638HPC	10-1097
P2639HPC	10-1098
P2661	10-1047
P2662	10-1048
P2663	10-1083
P2664	10-1084
P2665	10-1156
P2668	10-1188
P2669	10-1082
P2672	10-1102
P2673	10-1103
P2678	10-1307
P2691	10-997
P2691X	10-997
P2692	10-1131
P2693	10-1189
P2696	10-1137
P2710	10-1087
P2809	10-1192
P2810	10-1194
P2810	10-1193
P2815	10-1169
P2816	10-1170
P2817HPC	10-1171
P2818HPC	10-1172
P2819	10-1273
P2822HPC	10-1106
P2827	10-1199
P2828	10-1200
P2832	10-1237
P2833	10-1238
P2834HPC	10-1160
P2845	10-1186
P2857	10-1161
P2867	10-1107
P2868	10-1245
P2869	10-1296
P2870	10-1324
P2871	10-1263
P2887	10-10071
P2888	10-10072
P2899	10-1285
P2900	10-1271
P2901	10-1272
P2907	10-1326
P2909	10-1325
P2910	10-1260
P2911	10-1257
P2912	10-1258
P2923	10-1292
P2924	10-1293
P2925	10-1309
P2928	10-1300
P2929	10-1281
P2938	10-1320
P2939	10-1318
P2943	10-1598
P2946	10-1322
P2947	10-1323
P2952	10-1321
P2956	10-10015
P2957	10-10031
P2958	10-10033S
P2959	10-10036S

## Precision Engine Parts

P2966	10-10024S
P2967	10-10018
P2973	10-10037
P2978	10-10048
P2984	10-1327
P2984CFM	10-1327
P2985	10-1328
P2993	10-1354
P2994	10-1361
P2995	10-1362
P2998	10-1352
P3003	10-10056
P3005	10-1358
P3007	10-1357
P3016	10-1371
P3018XS	10-1349S
P3027	10-10061
P3028	10-1369
P3029	10-1370
P3034	10-10087
P3036	10-10369S
P3037	10-1367
P3040	10-10086
P3047	10-1388
P3063	10-1438
P3067	10-1382
P3071	10-1399
P3075	10-1384S
P3077	10-1381
P3079	10-1419
P3080	10-1417
P3081	10-1383C
P3082	10-1380
P3090	10-1241C
P3091	10-1393
P3093	10-1394
P3103	10-1395
P3105	10-1386S
P3106	10-1416
P3114	10-10268
P3115	10-10307
P3127	10-10082
P3130	10-10308
P3131	10-10269
P3135	10-10093
P3136	10-10094
P3137	10-1452
P3138	10-1451
P3140	10-10076
P3141	10-10083
P3142	10-10098
P3143	10-10097
P3144	10-10064
P3145	10-10065
P3146	10-10112
P3150	10-10092
P3152	10-10091S
P3153	10-10080S
P3160	10-10060S
P3174	10-1465
P3175	10-1466
P3188	10-1480
P3189	10-1002
P3205	10-1450
P3210	10-1485S
P3211	10-1486
P3221	10-1449
P3226	10-1448
P3227	10-10271
P3229	10-10278S
P3231	10-10113S
P3232	10-10189

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## Precision Engine Parts

P3233	10-10187S
P3236	10-10272
P3238	10-10277
P3240	10-10115
P3241	10-10192
P3242	10-10186
P3243	10-10328
P3245	10-10107
P3246	10-10106
P3247	10-10330
P3247CFM	10-10330
P3249	10-10236
P3250	10-10237
P3251	10-1463
P3252	10-1464
P3253	10-1481
P3254	10-1484
P3255	10-1518
P3256	10-10267
P3257	10-10266
P3258	10-10270
P3259	10-10334
P3262	10-10370S
P3265	10-10069
P3267	10-10070
P3268	10-10188
P3269	10-10279
P3271	10-10193
P3272	10-10192
P3274	10-10262S
P3278	10-10252
P3279	10-10251
P3282	10-10275
P3285	10-10281
P3286	10-10282
P3304	10-1543
P3304FM	10-1543
P3305	10-1542
P3305FM	10-1542
P3305X	10-1542S
P3321	10-1504
P3323	10-10101S
P3324	10-10104
P3326	10-10257
P3327	10-10176
P3328	10-10177
P3330	10-10258
P3337	10-10142
P3338	10-10141
P3341	10-10146S
P3342	10-10145
P3367	10-1437
P3369	10-1552
P3370	10-1553
P3371	10-10216
P3372	10-10217
P3377	10-10146
P3383	10-1546
P3387	10-1538
P3388	10-1528
P3390	10-1597
P3391	10-1527
P3395	10-1561
P3398	10-1550
P3399	10-1537
P3400	10-1469
P3401	10-10218
P3403	10-1555
P3406	10-10310
P3408	10-10311
P3410	10-1568
P3411	10-1569

## Precision Engine Parts

P3412	10-10116
P3418	10-1673
P3419	10-1674
P3432	10-1710
P3433	10-1711
P3434	10-1551
P3436	10-10280S
P3438	10-10128
P3438N	10-10128
P3439	10-10126
P3439N	10-10126
P3445	10-10318
P3446	10-10320S
P3448	10-1389
P3449	10-1591
P3450	10-1592
P3469	10-10375
P3476	10-1505
P3477	10-1547
P3478	10-1670
P3479	10-1671
P3480	10-1545
P3484	10-1135
P3485	10-1536
P3488	10-10386
P3489	10-10385
P3494	10-10625
P3496	10-10356S
P3499	10-10105
P35019N	10-2194
P3534	10-10276S
P3539	10-10255
P3540	10-10256
P3587	10-10322
P3619	10-10100S
P3626	10-10218
P3627	10-10220S
P3801	10-1556
P3802	10-1557
P3807	10-10102S
P3808	10-10103
P3827	10-10154
P3828	10-10155
P3831	10-1727
P3832	10-1726
P3833	10-10338S
P3834	10-10337
P3840	10-10416
P3841	10-10415
P3859	10-10243
P3860	10-10244
P3862	10-10333
P3863	10-10332S
P3864	10-10309
P3866	10-10221S
P3867	10-10219
P3868	10-10284
P3870	10-10285S
P3871	10-10163
P3902	10-10117
P4237N	10-10330
P4361	10-1936
P4390	10-1920
P4391	10-1921
P4397	10-10735
P4572	10-1902
P5013	10-1918
P5014	10-1919
P5021N	10-2195
P5034	10-1950
P5035	10-1949
P5048	10-1997

## Precision Engine Parts

P5049	10-2010S
P5069	10-1998
P5070	10-1999
P5070	10-1999
P5082	10-1991
P5089	10-1904
P5091	10-2007
P5092	10-2006
P5093N	10-13039
P5094	10-13038
P5094N	10-13038
P5095	10-2015
P5096	10-2014
P5114	10-1993
P5115	10-1994
P5116	10-2179
P5117	10-2180
P5124	10-2175
P5124N	10-2175
P5125	10-2176
P5125N	10-2176
P5136	10-13006
P5154N	10-03032
P5175	10-2035
P5177	10-2173
P5178	10-2172
P5179	10-3095
P5180	10-3094
P5195	10-13183
P5196	10-13182
P5209N	10-3080
P5210N	10-3081
P5217XN	10-13203S
P5218N	10-13201
P5219N	10-13088
P5240XN	10-13139S
P5254	10-13216
P5255	10-13215
P5301	10-3224
P5302	10-3225
P5306	10-13321
P5307	10-13322
P5308	10-13323
P5309	10-13325
P5310	10-13222
P5311	10-13223
P5312	10-13324
PC1375E-2N	22-1375-2N
PEP101	10-10007
PEP106	10-10006
PEP109	10-10353S
PRKCM03	42-2941
PRKCM14	42-2940
PS2090	10-1206S
PS2550	10-1261S
PS2690	10-996S
PS2820	10-1177S
PS2866	10-1017S
PS2878	10-1312S
PS2896	10-1294S
PS3162	10-1483S
PS3299	10-1482S
PS3368	10-1780S
PV1908	10-1180
PV2232	10-1470
PV2399	10-10364S
PV2400	10-10363
PV2404	10-10367
PV2413	10-10350S
PV2452	10-1548
PV2506	10-10342S
PV2532	10-10117

## Precision Engine Parts

PV2547	10-10196
PV2560	10-10190
PV2561	10-10191
PV2565XN	10-10198
PV2566N	10-10197
PV2581	10-10274S
PV2585	10-10305
PV2586	10-10340
PV2587	10-10339S
PV2599	10-10183
PV2606	10-10387
PV2615	10-10162
PV2621	10-10131S
PV2622	10-10130
PV2630	10-10172
PV2631	10-10173
PV2641X	10-10306S
PV2643	10-10224
PV2656	10-1698
PV2658	10-10140
PV2659	10-10139
PV2660	10-10144
PV2661	10-10143
PV3917	10-10182
PV3918	10-10388
PV3956	10-1699
PV4336	10-1737
PV4344CFM	10-1931
PV4345	10-1807
PV4346	10-1736
PV4370N	10-10524
PV4372N	10-10525
PV4384	10-1664
PV4385	10-1665
PV4475	10-1702
PV4476	10-1703
PV4483	10-1729
PV4484	10-1731
PV4485	10-1730
PV4486	10-1742
PV4487	10-1741
PV4489	10-1746
PV4490	10-1745
PV4494	10-1785
PV4495	10-1786
PV4505	10-10500
PV4506	10-10501
PV4510	10-10523
PV4511	10-10534
PV4512N	10-10535
PV4517	10-10562
PV4518	10-10563
PV4519	10-1728
PV4525X	10-10553S
PV4557	10-1735
PV4558	10-1903
PV4569	10-1806
PV4570	10-1858
PV4571	10-1929
PV4579	10-1941
PV4580	10-1937
PV4585	10-1913
PV4586	10-1914
PV4592	10-1934
PV4593	10-1935
PV4598	10-2046
PV4602	10-1924
PV4603	10-1925
PV4607	10-2009
PV4608	10-1901
PV4630	10-10784
PV4632	10-2040S

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Precision Engine Parts		SBI		SBI		SBI	
PV4636	10-1917	01814	10-1437	1221013	38-1066-75	1221162	38-53-45
PV4637	10-1916	02039SN	10-10784	1221014	38-1054-70	1221163	38-480-45
PV4644N	10-13244	1211000	34-746	1221015	38-1068-70	1221165	38-537-45
PV4708	10-2265	1211001	34-743	1221016	38-1100-75	1221180	38-475-45
PV5176	10-2008	1211002	34-310	1221026	38-844-45	1221181	38-475-45
RC157	37-4003	1211003	34-555	1221031	38-921-25	1221187	38-1321-55
RV1458	32-04040	1211007	34-613	1221033	38-905-25	1221189	38-1053-75
S030104	33-1043	1211009	34-802	1221034	38-766-25	1221192	38-1064-75
S03303	33-3033	1211011	34-614	1221035	38-911-25	1221198	38-827-45
S06303	33-3036	1211014	34-766	1221036	38-2006-25	1221199	38-806-55
T9010	38-1053-75	1211016	34-219	1221037	38-450-25	1221200	38-805-45
UV0767FO	38-585-45	1211019	34-620	1221038	38-915-25	1221201	38-592-55
UV5001-EO	38-806-55	1211021	34-217	1221039	38-950-25	1221202	38-592-55
UVO606-GO	38-592-55	1211023	34-811	1221040	38-231-25	1221203	38-823-45
UVO768EO	38-843-45	1211024	34-619	1221041	38-530-25	1221204	38-802-45
UVO821-VI	38-802-45	1211025	34-212	1221043	38-240-15	1221205	38-802-45
UVO865-GO	38-20-45	1211026	34-213	1221045	38-910-25	1221206	38-840-45
UVO890-GO	38-371-45	1211028	34-208	1221046	38-928-25	1221215	38-108-45
UVO899-VI	38-111-45	1211031	34-235	1221047	38-925-25	1221216	38-108-45
UVO903EO	38-565-45	1211034	34-813	1221048	38-731-25	1221217	38-956-45
VLA112	36-6000	1211035	34-235	1221048	38-951-25	1221218	38-828-45
VSR1001	55-6100	1211039	34-716	1221051	38-780-25	1221225	38-1055-70
VSR103CM	55-6103	1211046	34-860	1221052	38-535-45	1221226	38-309-45
VSR105	55-6115	1211047	34-815	1221053	38-535-45	1221227	38-843-45
VSR1051	55-6105	1211047	34-819	1221055	38-830-45	1221229	38-565-45
VSR110T	55-9005	1211048	34-5001	1221057	38-255-35	1221230	38-585-45
VSR123	55-6123	1211052	34-237	1221058	38-259-35	1221231	38-803-45
VSR130CM	55-6130	1211054	34-235	1221060	38-923-35	1221232	38-803-45
VSR179	55-6179	1211058	34-5011	1221063	38-253-45	1221233	38-250-35
VSR182	37-4000	1211059	34-5007	1221065	38-936-45	1221236	38-322-45
VSR194	55-6294	1211060	34-5008	1221066	38-936-45	1221237	38-403-45
VSR194LATE	55-6194	1211061	34-5009	1221067	38-812-45	1221238	38-4788-35
VSR197	55-6197	1211062	34-5010	1221069	38-830-45	1221246	38-998-45
VSR198	55-6198	1211063	34-5011	1221073	38-824-45	1221249	38-806-55
VSR199	55-6199	1211064	34-5012	1221074	38-810-45	1221250	38-978-55
VSR201	55-6201	1211065	34-165	1221075	38-938-45	1221251	38-20-45
VSR226	55-6226	1211071	34-5027	1221077	38-819-45	1221252	38-553-55
VSR22R	55-6922	1211072	34-510	1221078	38-821-45	1221253	38-553-55
VSR231GM	55-6231	1211074	34-5018	1221079	38-535-45	1221254	38-800-45
VSR252	55-6252	1211081	34-07209	1221079	38-6116-45	1221258	38-805-55
VSR260	55-6260	1211082	34-03722	1221081	38-542-55	1221259	38-806-55
VSR302CM	55-6302	1211083	34-00515	1221082	38-961-55	1221259	38-805-55
VSR304	55-6304	1211084	34-281	1221085	38-966-55	1221260	38-371-45
VSR305	55-6305	1211085	34-5005	1221086	38-964-55	1221262	38-503-55
VSR318	55-6318	1211086	34-719	1221088	38-967-55	1221263	38-962-45
VSR328	55-6328	1211087	34-07050	1221088	38-982-25	1221266	38-210-55
VSR360	55-6360	1211089	34-01030	1221089	38-3995-55	1221267	38-1065-70
VSR360	37-4002	1211090	34-00992	1221097	38-964-65	1221268	38-1045-70
VSR569	55-6569	1211091	34-04644	1221100	38-097-65	1221269	38-535-45
VSR735	55-6735	1211093	34-06513	1221106	38-125-65	1221270	38-450-45
VSR906	55-6906	1211096	34-719	1221113	38-570-45	1221276	38-247-45
VSRGM66D	55-6066	1211097	34-5020	1221114	38-996-55	1221280	38-120-45
<b>Renault</b>		1211098	34-5021	1221116	38-961-55	1221282	38-310-55
7701471279	10-03035	1211099	34-5022	1221119	38-962-45	1221285	38-998-45
7701471280	10-03036	1211100	34-5023	1221124	38-968-45	1221287	38-119-35
7701471378	10-3002	1211101	34-5025	1221125	38-971-45	1221288	38-407-45
7701471379	10-3003	1211102	34-5028	1221127	38-967-55	1221304	38-925-15
7701472124	10-3002	1211103	34-5023	1221130	38-980-45	1221314	38-031-45
7701473101	10-03036	1211104	34-5024	1221132	38-966-55	1221323	38-805-55
7701473354	10-3003	1211105	34-5009	1221136	38-976-45	1221323	38-806-55
7701473355	10-3003	1211106	34-5026	1221137	38-223-55	1221324	38-588-45
7701474287	10-03035	1211107	34-5022	1221139	38-985-55	1221325	38-400-55
T1463081	10-10130	1211108	34-5023	1221141	38-988-55	1221326	38-400-55
<b>Saab</b>		1211127	34-5032	1221142	38-700-45	1221327	38-20-45
12575197	34-5032	1211128	34-5031	1221147	38-520-45	1221329	38-1329-45
4500864	10-2040S	1211130	34-5034	1221149	38-997-45	1221330	38-844-45
756192	21-1750-66	1211131	34-5033	1221150	38-994-55	1221331	38-586-45
8347684	21-1750-66	1211195	34-5035	1221152	38-569-45	1221332	38-552-45
90537032	32-04060	1221003	38-713-15	1221154	38-994-55	1221333	38-173-45
		1221005	38-907-15	1221155	38-701-45	1221336	38-809-45
		1221006	38-937-15	1221158	38-518-45	1221337	38-900-45
		1221009	38-1062-70	1221159	38-961-55	1221338	38-901-45

# O.E. AND COMPETITOR INTERCHANGE

SBI		SBI		SBI		SBI	
1221340	38-819-45	13341S	10-3402	1601112	32-1558	1601267	32-2212
1221341	38-819-45	13348	10-3083	1601114	32-433	1601271	32-1537
1221342	38-571-45	13349	10-3082	1601115	32-529	1601274	32-1530
1221344	38-752-45	1403098	30-3255	1601116	32-558	1601307	32-1313
1221345	38-811-55	1403099	30-8013	1601117	32-575	1601318	32-1457
1221346	38-299-45	1403127	30-8566	1601118	32-576	1601326	32-04048
1221347	38-210-55	1403130	30-3248	1601119	32-577	1601327	32-04007
1221348	38-292-45	1403159BR	31-03419	1601120	32-611	1601330	32-04006
1221349	38-354-45	1601000	32-1001	1601121	32-619	1601334	32-04005
1221350	38-226-45	1601001	32-1002-D	1601122	32-672	1601338	32-04002
1221351	38-124-45	1601002	32-1003-D	1601124	32-677-D	1601339	32-1550
1221351	38-224-45	1601003	32-1009	1601125	32-685-D	1601343	32-2221
1221354	38-345-55	1601004	32-1011	1601126	32-696	1601347	32-04033
1221355	38-3500-45	1601005	32-1015	1601127	32-715	1601352	32-2215
1221356	38-905-45	1601006	32-1016	1601128	32-735	1601360	32-2462
1221357	38-300-45	1601007	32-1016-D	1601129	32-745-D	1601361	32-2461
1221358	38-300-45	1601008	32-1034	1601131	32-778	1601363	32-1265
1221360	38-5080-55	1601009	32-1038-D	1601132	32-786-D	1601365	32-2490
1221362	38-1055-70	1601010	32-1040	1601133	32-804	1601366	32-2484
1221363	38-9675-45	1601011	32-1041-D	1601134	32-807	1601372	32-04030
1221366	38-998-45	1601012	32-1044	1601135	32-812	1601377	32-04019
1221369	38-6115-55	1601013	32-1047	1601136	32-813	1601378	32-1278
1221378	38-160-55	1601014	32-1048	1601137	32-814	1601379	32-02061
1221394	38-6995-45	1601015	32-1049	1601138	32-815-D	1601382	32-2460
1221409	38-6100-55	1601017	32-1053	1601139	32-816-D	1601383	32-04026
1221410	38-6105-55	1601018	32-1061	1601140	32-863	1601385	32-2450
1221411	38-6105-55	1601019	32-1066	1601141	32-864-D	1601394	32-04034
1221419	38-46-45	1601020	32-1070	1601142	32-867	1601398	32-2486
1221425	38-812-45	1601023	32-1082	1601143	32-869	1601399	32-2302
1221427	38-6125-55	1601024	32-1086	1601144	32-880-D	1601402	32-2406
1221428	38-6108-55	1601025	32-1096	1601144HP	32-943-D	1601403	32-2412
1221429	38-6108-55	1601028	32-1106	1601145	32-881-D	1601407	32-1943-D
1221430	38-6108-55	1601029	32-1107	1601146	32-883	1601408	32-1615
1221438	38-6132-55	1601030	32-1123	1601147	32-884-D	1601409	32-1378
1221440	38-6101-55	1601031	32-1125	1601148	32-886	1601410	32-04013
1221441	38-6129-55	1601033	32-1126	1601149	32-891-D	1601411	32-2487
1221442	38-9675-45	1601036	32-1130	1601150	32-901-D	1601415	32-2500
1221444	38-6103-55	1601037	32-1131	1601151	32-902	1601425	32-2300
1221445	38-6127-55	1601038	32-1135	1601152	32-906	1601426	32-2230
1221449	38-111-45	1601041	32-1149	1601154	32-907-D	1601427	32-2210
1221453	38-6130-55	1601041	32-936	1601156	32-922	1601428	32-2400
1221456	38-9675-45	1601044	32-1175	1601157	32-923	1601430	32-2475
1221458	38-6131-55	1601046	32-1190-D	1601159	32-935-D	1601431	32-2522
13047	10-3065	1601047	32-1193	1601160	32-961-D	1601432	32-2482
13077	10-3180	1601049	32-1195-D	1601161	32-991	1601436	32-04018
13078	10-3181	1601050	32-1196	1601162	32-994	1601437	32-04017
13082	10-13335	1601051	32-1197	1601164	32-999	1601438	32-2494
13120	10-10217	1601054	32-1201	1601172	32-1290	1601441	32-2222
13172	10-03031	1601055	32-1202	1601173	32-1167	1601442	32-2223
13173	10-03032	1601063	32-1213	1601174	32-936	1601443	32-2234
13175S	10-3079	1601065	32-1227-D	1601175	32-909-D	1601444	32-2451
13199	10-3080	1601069	32-1246	1601199	32-1282	1601446	32-04042
13200	10-3081	1601070	32-1247	1601200	32-798	1601450	32-2480
13205	10-13335	1601071	32-1250	1601201	32-1420	1601457	32-04041
13208	10-3088	1601072	32-1258	1601202	32-1244	1601458	32-04040
13209	10-3089	1601074	32-1262-D	1601203	32-1245	1601459	32-04049
13210	10-13334	1601075	32-1266-D	1601204	32-1166	1601471	32-04035
13213	10-3086	1601076	32-1268	1601206	32-887-D	1601472	32-04036
13214	10-3087	1601079	32-1289	1601210	32-1242	1601473	32-04025
13255	10-13190	1601080	32-1299	1601215	32-1400	1601480	32-04051
13256	10-13191	1601083	32-1301-D	1601227	32-1088-D	1601483	32-2225
13257	10-3048	1601084	32-1302-D	1601229	32-1280	1601484	32-04053
13258	10-3047	1601085	32-1303	1601233	32-1220-D	1601485	32-04029
13260	10-3047	1601086	32-1304	1601234	32-1447	1601487	32-04055
13304S	10-03008	1601089	32-1330-D	1601235	32-1449	1601488	32-04046
13316S	10-3094	1601096	32-1368	1601239	32-1448	1601490	32-2476
13316SN	10-3095	1601097	32-1370	1601247	32-1310	1601504	32-2302
13317	10-3096	1601099	32-1374	1601250	32-1430	1601504	32-04025
13318	10-3097	1601100	32-1377	1601258	32-1380	1601506	32-04059
13319S	10-3182	1601102	32-1386	1601262	32-1398	1601507	32-04013
13320SN	10-3183	1601105	32-1391-D	1601264	32-1684	1601508	32-04060
13340	10-3401	1601106	32-1405	1601266	32-1680	1601527	32-02061

# O.E. AND COMPETITOR INTERCHANGE

SBI		SBI		SBI		Sealed Power / FM			
1601568	32-04062	1841034	42-1740	3611013	55-6231	3818010	97-11B		
1601579	32-5008	1841035	42-1741	3611014	55-6302	3818011	97-12B		
1601588	32-5001	1841038	42-1786	3611015	55-6100	3818012	97-13B		
1601589	32-5003	1841039	42-1791	VL100	36-2205	3818013	97-14B		
1601590	32-5006	1841040	42-1793	VL105	36-969	3818014	97-16B		
1601591	32-5007	1841045	42-2971	VL106	36-2269	3818015	97-17B		
1601599	32-5009	1861090	42-2641	VL107	36-2271	3818016	97-18B		
1601601	32-5022	1861093	42-2701	VL109	36-2056	3818017	97-19B		
1601609SSA	32-5023	1861100	42-2661	VL113	36-2217	3818018	97-21B		
1601616	32-5015	1861121	42-2677	VL114	36-2104	3818019	97-22B		
1601617	32-5011	1862035	42-2070	VL115	36-2148	3818020	97-25B		
1601623	32-5017	1871014	42-1724	VL116	36-2236	3818021	97-26B		
1601631	32-5019	1900471	74-5471	VL116	36-2251	3818022	97-27B		
1601633	32-5018	1901222	74-6080	VL119	36-6003	3818023	97-31B		
1601642SSA	32-5024	1901351	74-5311	VL120	36-2272	3818024	97-32B		
1611006	37-6514	1901403	74-6323	VL121	36-2198	3818025	97-33B		
1611012	37-4003	1901408	74-6321	VL123	36-2296	3818026	97-34B		
1611013	37-1046	1901417	74-6310	VL124	36-2273	3818027	97-35B		
1611053	37-2899	1901425	74-6274	VL135	36-2274	3818028	97-38B		
1611073	37-5666	1901426	74-5312	VL138	36-2270	3818029	97-39B		
1801004	40-2809	1901450	74-6324	VL141	36-6000	3818030	97-40B		
1801008	40-1807	1901467	74-6363	VL146	36-2254	3818031	97-41B		
1801029	40-2710	1901473	74-6366	VL149	36-2276	3818032	97-42B		
1801037	40-2810	1901525	74-6462	VL150	36-2244	3818033	97-43B		
1801040	40-2813	1901531	74-6608	VL163	36-2279	3818034	97-44B		
1801041	40-2814	1901534	74-6475	VL171	36-2297	3818036	97-28B		
1801055	40-2850	1901535	74-6474	VL172	36-2148	3818037	97-57B		
1801056	40-2851	1901537	74-6614	VL173	36-2278	3818037	97-58B		
1801059	40-2859	1901538	74-6611	VL175	36-7082	3818038	97-63B		
1801077	40-2892	1901548	74-6662	VL176	36-7005	3818039	97-64B		
1801078	40-2893	1921229	74-6105	VL178	36-2305	3818040	97-65B		
1801229	40-2867	1921321	74-6279	VL180	36-2305	3818041	97-66B		
1801233	40-2888	1921322	74-6306	VL24	36-872	3818042	97-68B		
1801234	40-2889	1921330	74-6317	VL31	36-2084	3818043	97-69B		
1801237	40-2876	1921331	74-6034	VL35	36-900CCI	3818044	97-70B		
1801238	40-2886	1921336	74-6442	VL37	36-817CCI	3818045	97-74B		
1801288	40-2758	1921337	74-6441	VL49	36-951	3818046	97-75B		
1801292	40-2900	1921338	74-6380	VL519	36-6005	3818047	97-76B		
1801304	40-2849	1921339	74-6230	VL523	36-7076	3818048	97-77B		
1801318	40-2754	1921409	74-6281	VL524	36-7075	3818049	97-87B		
1801319	40-2755	1921442	74-6335	VL555LA	36-7102K	3818050	97-88B		
1801324	40-2702	1921444	74-6342	VL556LA	36-7104K	3818051	97-89B		
1801326	40-9106	1921484	74-6445	VL557LA	36-7103K	3818052	97-91B		
1801328	40-9111	1921485	74-6373	VL558	36-2303	3818053	97-94B		
1801330	40-2930	1921506	74-6231	VL558FG	36-2303FG	3818054	97-95B		
1811011	41-2401	1921509	74-6639	VL558RG	36-2303RG	3818055	97-96B		
1811012	41-2402	1921510	74-6638	VL559	36-2148	3818057	97-98B		
1811014	41-2504	2401019	87-8463	VL561	36-7561	3818058	97-99B		
1811016	41-2407	2401019R	87-1259	VL562	36-2271	3818059	97-100B		
1811034	41-2547	2401026	87-4376	VL568	36-2289	3818060	97-105B		
1811035	41-2548	2401034	87-8320	VL63	36-992	3818061	97-106B		
1811040	41-2600	2401043	87-6951	VL64	36-976	3818062	97-107B		
1811041	41-2610	3221000	38-1053-75	VL73	36-969	3818063	97-108B		
1811048	41-2507	3221002	38-1046-75	VL83	36-2012	3818064	97-109B		
1811049	41-2508	3221003	38-1090-75	VL87	36-2105	3818065	97-110B		
1811059	41-2554	3221004	38-1066-75	VL88	36-2089	3818066	97-112B		
1811061	41-1736	3221006	38-1091-75	VL89	36-2011CCI	3818067	97-113B		
1811064	41-2673	3221007	38-1067-75	VL9	36-2083	3818068	97-114B		
1831015	42-1721	3221008	38-805-55	VL94	36-2095	3818070	97-116B		
1831017	42-1783	3221009	38-802-45	<b>Sealed Power / FM</b>					
1831017	42-1731	3221010	38-107-55	25518766	74-6363	3818071	97-117B		
1831020	42-1772	3221011	38-532-55	3818000	97-1B	3818072	97-118B		
1831022	42-1776	3221012	38-373-55	3818001	97-2B	3818073	97-119B		
1831026	42-1797	3221013	38-375-55	3818002	97-3B	3818074	97-120B		
1831027	42-1704	3221014	38-8500-55	3818003	97-4B	3818097	97-159B		
1831028	42-1718	3221015	38-8530-55	3818004	97-5B	3818099	97-0226		
1831032	42-1792	3221016	38-9500-55	3818005	97-6B	53006722	74-6458		
1831034	42-1861	3221017	38-9530-55	3818006	97-7B	53008282	74-6458		
1841016	42-2921	3242395	74-6353	3818008	97-9B	70829	38-809-45		
1841020	42-2941	3401012BR	31-03419	3818008	97-9B	71042	38-354-45		
1841025	42-2948	3401018BR	31-8139	3818009	97-10B	AT2084	36-2084		
1841032	42-1720	3611001	55-9005					AT6003	36-6003
								AT770	36-2032

# O.E. AND COMPETITOR INTERCHANGE

Sealed Power / FM		Sealed Power / FM		Sealed Power / FM		Sealed Power / FM	
AT992	36-992	MV1796	38-915-15	ST2003BC	38-1065-70	V1745	10-975
BP122X	97-23B	MV1817	38-916-15	ST2004	38-1068-70	V1753X	10-996S
BP126X	97-37B	MV1819	38-922-35	ST2004BC	38-1068-70	V1753X+15	10-996S+15
BP145X	97-29B	MV1888	38-951-25	ST2005	38-1062-70	V1754	10-997
HT2011	36-2011CCI	MV1888	38-951-25	ST2018R	38-1066-75	V1755	10-919
HT2012	36-2012	MV1903	38-810-45	ST2019R	38-1067-75	V1756	10-988
HT2056	36-2056	MV1921	38-1054-70	ST2020R	38-1090-75	V1759	10-1164
HT2083	36-2083	R1046	41-2547	ST2034	38-962-45	V1764X	10-965S
HT2089	36-2089	R1052	41-2610	ST2037	38-964-55	V1767	10-949
HT2095	36-2095	R1094	40-2758	ST2039	38-3995-55	V1770	10-970
HT2104	36-2104	R814	40-2859	ST2056	38-996-55	V1772	10-974
HT2105	36-2105	R828	40-2851	ST2069	38-985-55	V1773	10-969
HT2127	36-2271	R829	40-2850	ST2079	38-520-45	V1775	10-1457
HT2148	36-2148	R849A	40-2844	ST2081	38-518-45	V1776	10-1002
HT2198	36-2198	R851	41-2504	ST2082	38-997-45	V1783	10-947
HT2205	36-2205	R854	41-2600	ST2102	38-936-45	V1784	10-1000
HT2217	36-2217	R855	40-2888	ST2109	38-812-45	V1784+15	10-1000+15
HT2236	36-2236	R861	40-2892	ST2115	38-480-45	V1785	10-1001
HT2244	36-2244	R862	40-2893	ST2116	38-998-45	V1785+15	10-1001+15
HT2254	36-2254	R868R	41-2547	ST2119	38-700-45	V1785+3	10-1001+3
HT2269	36-2269	R869	40-2813	ST2124	38-592-55	V1797	10-1188
HT2270	36-2270	R870	40-2814	ST2130	38-840-45	V1798	10-1082
HT2271	36-2271	R881	41-2407	ST2131	38-998-45	V1799	10-1189
HT2272	36-2272	R882	41-2554	ST2140	38-111-45	V1800	10-1105
HT2273	36-2273	R886R	41-2507	ST2146	38-20-45	V1801	10-1083
HT2274	36-2274	R890	40-9106	ST2149	38-569-45	V1802	10-1084
HT2276	36-2276	R912	40-2809	V1003X	10-1206S	V1809	10-637
HT2277	36-2277	R973	41-1736	V1004	10-257	V1813	10-1072
HT2278	36-2278	RC128S	37-6514	V1005	10-298	V1825	10-1097
HT2279	36-2279	RC157S	37-4003	V1060	10-302	V1826	10-1098
HT2280	36-7005	RC163S	37-1046	V1076	10-308	V1830	10-1047
HT2284	36-2284	RP3021	74-6080	V1086	10-349	V1831	10-1048
HT2285	36-2285	RP3028	74-6105	V1115	10-373	V1832	10-1093
HT2286	36-2286	RP3103	74-6442	V1127	10-375	V1833X	10-1057S
HT2291	36-2291	RP3104	74-6441	V1128	10-376	V1849	10-1102
HT2292	36-2292	RP3160	74-6274	V1199	10-400	V1850	10-1103
HT2295	36-2295	RP3165	74-6279	V1199+15	10-400+15	V1853	10-1242
HT2296	36-2296	RP3167	74-6281	V1199+3	10-400+3	V1853+15	10-1242+15
HT2297	36-2297	RP3172	74-5311	V1200	10-399	V1858	10-09541
HT2299	36-2299	RP3172C	74-5312	V1200+15	10-399+15	V1859	10-09540
HT2303	36-2303	RP3180	74-6317	V1200+3	10-399+3	V1860	10-1153
HT2305	36-2305	RP3181	74-6380	V1203	10-211	V1861	10-1131
HT2307	36-7082	RP3182	74-6230	V1285	10-494	V1863	10-1307
HT2308	36-2271	RP3183	74-6306	V1307AL	10-308	V1863+15	10-1307+15
HT6000	36-6000	RP3186	74-6310	V1339	10-520	V1874	10-1087
HT6005	36-6005	RP3191	74-6321	V1343	10-518	V1879	10-1171
HT6007	36-6000	RP3193	74-6323	V1344	10-514	V1880	10-1172
HT6033	36-6033	RP3194	74-6324	V1351	10-185	V1888X	10-1206S
HT817	36-817CCI	RP3207	74-6342	V1383	10-549	V1893	10-1237
HT872	36-872	RP3237	74-6608	V1384	10-550	V1893+15	10-1237+15
HT900	36-900CCI	RP3238	74-6609	V1386	10-548	V1894	10-1238
HT951	36-951	RP3241	74-6366	V1427	10-1242	V1900	10-1156
HT969	36-969	RP3254	74-6380	V1433	10-1265	V1900+15	10-1156+15
HT976	36-976	RP3255	74-6230	V1434	10-567	V1902	10-1160
MR1752	42-2921	RP3256	74-6363	V1434+15	10-567+15	V1903	10-1161
MR1783	42-1783	RP3262	74-6373	V1437X	10-576	V1904	10-1192
MR1811	42-1776	RP3275	74-6335	V1438	10-577	V1904+15	10-1192+15
MR1816	42-1704	RP3282	74-6445	V1439	10-564	V1904+3	10-1192+3
MR1823	42-1791	RP3286	74-6231	V1537	10-627	V1905	10-1164
MR1829	42-1724	RP3330	74-6475	V1539	10-637	V1907	10-1186
MR1837	42-1720	RP3331	74-6474	V1539+15	10-637+15	V1908	10-1180
MR1847	42-1741	RP3332	74-5471	V1539+3	10-637+3	V1908+15	10-1180+15
MR1883	42-2948	RP3333	74-6462	V1612	10-696	V1909	10-1188
MR1910	42-2941	RP3333	74-6458	V1681	10-303	V1911	10-1106
MV1233	38-240-15	RP3342	74-6609	V1710	10-742	V1911+15	10-1106+15
MV1598	38-450-15	RS621	42-2641	V1716	10-1266	V1912	10-1107
MV1599	38-911-25	RS626	42-2661	V1717	10-1268	V1912+15	10-1107+15
MV1707	38-737-15	RS628	42-2070	V1719	10-963	V1926	10-1195
MV1769	38-910-25	ST2001	38-1054-70	V1722	10-938	V1926+15	10-1195+15
MV1771	38-530-15	ST2001BC	38-1054-70	V1722+15	10-938+15	V1926+3	10-1195+3
MV1775	38-905-15	ST2002	38-921-25	V1743	10-958	V1927	10-1193
MV1789	38-915-15	ST2003	38-1065-70	V1744	10-976	V1927+15	10-1193+15



# O.E. AND COMPETITOR INTERCHANGE

Sealed Power / FM		Sealed Power / FM		Sealed Power / FM		Sealed Power / FM	
V1927+3	10-1193+3	V2066	10-1348	V2239	10-10076	V2364	10-1504
V1928	10-1194	V2067X	10-1349S	V2241X	10-10024S	V2365	10-1505
V1932	10-1137	V2068	10-1352	V2243X	10-10080S	V2366X	10-10193
V1932+15	10-1137+15	V2073	10-1357	V2244	10-10082	V2367	10-10192
V1932+3	10-1137+3	V2074	10-1358	V2249	10-10269	V2368X	10-10189
V1934	10-1106	V2075	10-1170	V2250	10-10268	V2369	10-10188
V1937X	10-1177S	V2075+15	10-1170+15	V2251	10-10093	V2399X	10-10364S
V1940	10-1199	V2076	10-1361	V2252	10-10094	V2400	10-10007
V1941	10-1200	V2077	10-1362	V2253	10-10097	V2401X	10-10369S
V1942	10-1212	V2083X	10-1346S	V2254	10-10098	V2403X	10-10370S
V1943	10-1210	V2084	10-1369	V2255	10-10106	V2404	10-10367
V1953X	10-1017S	V2085	10-1370	V2256	10-10107	V2406	10-10351
V1961	10-1135	V2095	10-1367	V2257	10-10069	V2407X	10-10356S
V1961+15	10-1135+15	V2095+3	10-1367+3	V2258	10-10070	V2408X	10-10358S
V1961+3	10-1135+3	V2096	10-1371	V2263	10-10330	V2413X	10-10350S
V1963	10-1245	V2097	10-1372	V2264	10-10328	V2416	10-10406
V1964	10-1296	V2102	10-10033S	V2265	10-10060S	V2427	10-1552
V1970	10-1268	V2102X	10-10033S	V2265X	10-10060S	V2428	10-1553
V1979	10-1258	V2103	10-10031	V2266X	10-10091S	V2429	10-1537
V1979+15	10-1258+15	V2104X	10-10036S	V2267	10-10092	V2430	10-1538
V1980	10-1257	V2105	10-10015	V2268	10-10217	V2431	10-1560
V1981	10-1260	V2106	10-10006	V2269	10-10216	V2432	10-1561
V1983	10-1266	V2107	10-10007	V2272	10-1463	V2433	10-1554
V1983+15	10-1266+15	V2113	10-1309	V2273	10-1464	V2434	10-1555
V1984	10-1271	V2116	10-1389	V2274	10-1265	V2436	10-1550
V1984+15	10-1271+15	V2117	10-1388	V2274+15	10-1265+15	V2436+15	10-1550+15
V1985	10-1292	V2117+15	10-1388+15	V2282X	10-1483S	V2437	10-1551
V1986	10-1293	V2117+3	10-1388+3	V2283	10-1518	V2439	10-1273
V1987X	10-1241C	V2133	10-1381	V2287	10-1484	V2442	10-1568
V1988X	10-1294S	V2134	10-1382	V2288X	10-1482S	V2443	10-1569
V1989X	10-1261S	V2135X	10-1383C	V2290	10-1480	V2444	10-1483S
V1990	10-1281	V2136X	10-1384S	V2291	10-1481	V2445	10-1545
V1991	10-1272	V2137X+15	10-10385+15	V2294	10-1479	V2446	10-1546
V1991+15	10-1272+15	V2138X	10-1386S	V2295	10-1478	V2447	10-1535
V1992	10-1300	V2139	10-1401	V2296X	10-1485S	V2448	10-1536
V1993	10-1285	V2141	10-1399	V2297	10-1486	V2448+15	10-1536+15
V1995	10-1263	V2142	10-1380	V2299	10-1527	V2449X	10-1646S
V1997XK	10-1312S	V2142+15	10-1380+15	V2300	10-1528	V2450X	10-1578S
V1998	10-1597	V2143	10-1393	V2302	10-1542	V2451X	10-1235S
V1999	10-1598	V2143+15	10-1393+15	V2303	10-1543	V2452	10-1548
V2017	10-10071	V2143+3	10-1393+3	V2304	10-1457	V2452X	10-1548S
V2018	10-10072	V2154	10-1419	V2310	10-10142	V2453	10-1547
V2019	10-10024S	V2155	10-1417	V2311X	10-10064	V2455	10-1597
V2020	10-10018	V2166	10-10056	V2312	10-10145	V2456	10-1598
V2023	10-1325	V2167X	10-10037	V2313	10-10146	V2461X	10-10187S
V2024	10-1326	V2168	10-10048	V2314	10-10251	V2462	10-10186
V2024K+15	10-1326+15	V2169	10-1397	V2316	10-10255	V2496	10-10323
V2026	10-1322	V2171	10-1416	V2317	10-10272	V2497	10-10322
V2027	10-1323	V2172	10-1394	V2319	10-10015	V2498	10-10177
V2028	10-1324	V2173	10-1395	V2320	10-10277	V2499	10-10176
V2029	10-1329	V2180	10-10086	V2321	10-10279	V2500	10-10311
V2029+15	10-1329+15	V2181	10-10087	V2322	10-10281	V2501	10-10310
V2029K	10-1329	V2182	10-10064	V2323	10-10252	V2502X	10-10337
V2029K+15	10-1329+15	V2183	10-10065	V2325	10-10256	V2504	10-10318
V2030	10-1169	V2187	10-10061	V2326	10-10271	V2505	10-10309
V2030+15	10-1169+15	V2194	10-1448	V2328X	10-10278S	V2506X	10-10342S
V2031	10-1321	V2195	10-1449	V2329X	10-10280S	V2507X	10-10320S
V2032	10-1320	V2196	10-1450	V2330	10-10282	V2508X	10-10338S
V2033	10-1318	V2201	10-1451	V2331	10-10141	V2521	10-1594
V2039	10-1332	V2202	10-1452	V2332X	10-10364S	V2522	10-1593
V2039+15	10-1332+15	V2203	10-1437	V2333	10-10363	V2526	10-1556
V2040	10-1358	V2204	10-1438	V2334X	10-10102S	V2527	10-1557
V2040+15	10-1358+15	V2205	10-1441	V2335	10-10103	V2527+15	10-1557+15
V2041	10-1120	V2206	10-1442	V2336	10-10104	V2528	10-1558
V2041+15	10-1120+15	V2209	10-1433	V2337	10-10105	V2529	10-1591
V2044	10-1327	V2210	10-1434	V2339	10-10112	V2530	10-1592
V2044+15	10-1327+15	V2231	10-1469	V2340	10-10115	V2531	10-1559
V2045	10-1328	V2232	10-1470	V2343X	10-10113S	V2532	10-10117
V2045+15	10-1328+15	V2233X	10-10006	V2344	10-10236	V2533	10-10116
V2045+3	10-1328+3	V2234	10-1465	V2345	10-10237	V2539X	10-1504S
V2061	10-1354	V2235	10-1466	V2352	10-10307	V2547	10-10196
V2061+15	10-1354+15	V2238	10-10083	V2355	10-10308	V2548	10-10195

# O.E. AND COMPETITOR INTERCHANGE

Sealed Power / FM		Sealed Power / FM		Sealed Power / FM		Sealed Power / FM	
V2553	10-10386	V2658	10-10140	V4155	10-10258	V4491X	10-1780S
V2554	10-10385	V2659	10-10139	V4156	10-10142	V4492	10-1781
V2555	10-1419	V2660	10-10144	V4158X	10-10356S	V4493	10-1782
V2556	10-1675	V2661	10-10143	V4161	10-1780S	V4494	10-1785
V2557	10-1671	V340	10-121	V4162X	10-10146S	V4495	10-1786
V2558	10-1670	V341	10-122	V4163	10-1135	V4496	10-1810
V2559	10-10413	V3911	10-10267	V4164	10-1192	V4497	10-1811
V2560	10-10190	V3912	10-10245	V4167X	10-1261S	V4498X	10-1698S
V2561	10-10191	V3913	10-10243	V4168	10-1389	V4500	10-1701
V2562	10-10625	V3915	10-1710	V4168+15	10-1389+15	V4501	10-10165
V2563	10-10624	V3916	10-1711	V4168+3	10-1389+3	V4502	10-10166
V2565X	10-10198	V3917	10-10182	V4172	10-13043	V4503	10-10167
V2566	10-10197	V3918	10-10388	V4173	10-13044	V4504X	10-10168S
V2567	10-10334	V3919	10-10207	V4181	10-1469	V4505	10-10500
V2571	10-10266	V3923	10-1097	V4182	10-1135	V4506	10-10501
V2572	10-10270	V3925	10-1307	V4184X	10-10252	V4507	10-10520
V2574	10-10314	V3926	10-1238	V4185X	10-10276S	V4508	10-10521
V2575	10-10315	V3926+15	10-1238+15	V4187X	10-10100S	V4509	10-10522
V2577X	10-10246S	V3927	10-1200	V4188	10-10106	V4510	10-10523
V2579	10-10244	V3929	10-1272	V4194	10-10416	V4511	10-10534
V2580	10-10273	V3931	10-1265	V4196	10-10146	V4512	10-10535
V2581X	10-10274S	V3931+15	10-1265+15	V4198X	10-10285S	V4515	10-10550
V2582	10-10137	V3933	10-10142	V4202	10-10315	V4516	10-10551
V2583	10-10138	V3935X	10-10280S	V4208	10-1260	V4517	10-10562
V2584X	10-10333	V3936	10-10103	V4213	10-1442	V4518	10-10563
V2585	10-10305	V3937	10-1504	V4219	10-1598	V4519	10-1728
V2586	10-10340	V3938	10-10192	V4231	10-919	V4520X	10-10356S
V2587X	10-10339S	V3940	10-1554	V4246	10-696	V4521	10-1790
V2588X	10-10473	V3941	10-1551	V4335	10-10220S	V4522	10-1791
V2589X	10-10474	V3941+15	10-1551+15	V4336	10-1737	V4523	10-1739
V2590	10-10155	V3942	10-1547	V4341	10-10169	V4524	10-10552
V2591X	10-10325	V3943	10-1597	V4342	10-10170	V4525X	10-10553S
V2592	10-10154	V3946	10-10176	V4344	10-1931	V4526	10-1723
V2594X	10-10260S	V3948	10-1559	V4345	10-1807	V4553	10-1744
V2596	10-10259	V3949	10-10116	V4346	10-1736	V4554	10-1556
V2599	10-10183	V3951	10-1419	V4347	10-10506	V4555	10-1877
V2606	10-10387	V3952	10-10625	V4349	10-10432	V4556	10-1788
V2607	10-10153	V3954	10-1714	V4355	10-10164	V4557	10-1735
V2608	10-10118	V3956	10-1699	V4356	10-10516	V4558	10-1903
V2610	10-1674	V3957	10-1535	V4357	10-10517	V4559X	10-10282S
V2611	10-1673	V4016	10-1370	V4359	10-10512	V4560	10-10503
V2612	10-1727	V4017	10-10192	V4360	10-10157	V4561	10-10542
V2613	10-1726	V4020	10-10367	V4361	10-10159	V4562	10-10435
V2614	10-10163	V4022	10-10275	V4362	10-10513	V4563	10-1699
V2615	10-10162	V4025	10-10101S	V4364	10-10234	V4564	10-1789
V2616	10-10218	V4026	10-10257	V4366	10-10235	V4565	10-1787
V2618X	10-10332S	V4037	10-1452	V4367	10-10299	V4566X	10-1699S
V2619	10-10420	V4041	10-1195	V4368	10-10300	V4567	10-2044
V2620	10-10421	V4051	10-1470	V4369	10-10248	V4569	10-1806
V2621X	10-10131S	V4055X	10-10358S	V4370	10-10524	V4570	10-1858
V2622	10-10130	V4057	10-10218	V4371X	10-1547	V4571	10-1929
V2626	10-10122	V4058	10-10107	V4372	10-10525	V4572	10-1902
V2630	10-10172	V4062	10-10415	V4374	10-10495	V4573	10-10541
V2631	10-10173	V4064	10-10145	V4375	10-10496	V4574	10-10434
V2632	10-10219	V4065	10-10284	V4376	10-10497	V4576X	10-10198
V2633	10-10221S	V4066	10-10176	V4384	10-1664	V4577	10-1938
V2634X	10-10220S	V4067	10-10136	V4385	10-1665	V4578X	10-1939S
V2638	10-10414	V4069	10-10324S	V4475	10-1702	V4579	10-1941
V2640	10-10206	V4070	10-10263	V4476	10-1703	V4580	10-1937
V2641X	10-10306S	V4072	10-10314	V4477	10-1706	V4581	10-1904
V2642	10-10225	V4093	10-1265	V4478	10-1707	V4582	10-1905
V2643	10-10224	V4094	10-400	V4479	10-1708	V4583	10-10742
V2644X	10-10229	V4102	10-549	V4480	10-1709	V4585	10-1913
V2645X	10-10228	V4104X	10-965S	V4481	10-1713	V4586	10-1914
V2646X	10-10227S	V4106	10-1441	V4482	10-1712	V4592	10-1934
V2647	10-10226	V4118X	10-10033S	V4483	10-1729	V4593	10-1935
V2648	10-1704	V4120X	10-1294S	V4484	10-1731	V4594	10-1745
V2649	10-1705	V4121	10-1329	V4485	10-1730	V4595	10-1746
V2652	10-10126	V4128	10-1352	V4486	10-1742	V4596	10-2245
V2653	10-10128	V4129	10-1135	V4487	10-1741	V4597	10-2246
V2654	10-1715	V4136	10-1192	V4488	10-1743	V4598	10-2046
V2656	10-1698	V4153	10-10262S	V4489	10-1746	V4599	10-2047

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Sealed Power / FM		Sealed Power / FM		Sealed Power / FM		Sealed Power / FM	
V4602	10-1924	V4686	10-2119	VG1426T	30-8564	VG5065	30-7447
V4603	10-1925	V4687	10-10778	VG1427T	30-8565	VG5066H	30-6897H
V4606	10-2008	V4688	10-10779	VG1428T	30-8173	VG5067H	30-6896H
V4607	10-2009	V4689	10-10798	VG1429T	30-8174	VG5068H	30-9977H
V4608	10-1901	V4690	10-10799	VG1434	30-3053	VG5069H	30-9460H
V4609	10-10514	V4691	10-2175	VG1435	30-3019	VG5070H	30-9964H
V4610	10-10515	V4692	10-2176	VG1436	30-3026	VG5072	30-5612
V4611	10-10556	V4693	10-1949	VG223	30-1384	VG5073	30-6113
V4612X	10-10805S	V4694	10-1950	VG336	30-1515	VG5075T	30-9612
V4613X	10-10557S	V4695	10-03031	VG338	30-1504	VG5076T	30-9111
V4614	10-10804S	V4696	10-03032	VG350	30-1527	VG5077T	30-9106
V4615X	10-10803S	V4697	10-10436	VG406	30-1613	VG5078T	30-9609
V4616	10-10353S	V4698	10-10437	VG419	30-1337	VG5079T	30-7552
V4617	10-10733	V4699	10-1991	VG420	30-1338	VG5080	30-7560
V4618X	10-10734S	V4700	10-1992	VG428	30-1614	VG5082	30-7909
V4619X	10-10355S	V4703	10-03032	VG438	30-1609	VG5083T	30-8040
V4622	10-10786	V4704	10-10737	VG446	30-1684	VG509	30-1476
V4623	10-10787S	V4705	10-10738S	VG449	30-1689	VG514	30-1803
V4624	10-10547	V4706	10-10518	VG450	30-1690	VG535	30-1819
V4625	10-10723	V4707	10-10519	VG460	30-1704	VG549	30-1839
V4626	10-10794	V4708	10-2265	VG473	30-1732	VG550	30-1840
V4627	10-2241	V4709	10-2103	VG479	30-1740	VG584	30-1878
V4628	10-2240	V4715	10-2180	VG483	30-1701	VG587	30-8554
V4629	10-10321	V94084	10-10731	VG5001	30-7546	VG612	30-1900
V4630	10-10784	V94085	10-10732S	VG5001T	30-9546	VG623	30-1919
V4631X	10-2040S	V958	10-199	VG5002	30-7259	VG627	30-1928
V4632	10-2040S	V959	10-210	VG5002H	30-9523H	VG628	30-1733
V4633	10-03007	V967	10-212	VG5002T	30-9259	VG634	30-1937
V4634	10-10548	VG130	30-1342	VG5003	30-7458	VG648	30-6097
V4635	10-10549	VG1315	30-7577	VG5004	30-6116	VG651	30-7471
V4636	10-1917	VG13152	30-7577+2	VG5004T	30-9116	VG652	30-7473
V4637	10-1916	VG1317	30-7705	VG5005	30-5607	VG667	30-7534
V4638	10-2054	VG1317	30-9705	VG5005H	30-9607H	VG668	30-7540
V4641	10-10795	VG1318	30-8039	VG5005T	30-9607	VG671	30-7537
V4642X	10-03008	VG1319	30-8114	VG5006	30-5606	VG675	30-7529
V4643	10-2053	VG1320	30-8115	VG5006T	30-9606	VG676	30-7528
V4644	10-2267	VG1321	30-8113	VG5007	30-7298	VG677	30-7535
V4645	10-1935	VG1322	30-8256	VG5007H	30-9108H	VG678	30-7541
V4647	10-1920	VG1330	30-8177	VG5007T	30-9298	VG688	30-1972
V4648	10-1921	VG1331	30-8178	VG5008	30-7554	VG689	30-1973
V4650	10-10536	VG1364	30-8172	VG5009	30-6869	VG690	30-7208
V4652	10-10526	VG1375	30-7999	VG5009T	30-9869	VG691	30-7545
V4655	10-1936	VG1376	30-8142	VG5011	30-9459	VG691	30-7542
V4656	10-10537	VG1377	30-8112	VG5016	30-7198	VG697	30-7581
V4657	10-10499	VG1384	30-8145	VG5016T	30-9198	VG698	30-7713
V4658	10-10498	VG1385	30-8146	VG503	30-1745	VG699	30-9708
V4659	10-10736	VG1386T	30-8555	VG5030	30-5609	VG700	30-7662
V4659	10-10781	VG1387T	30-8556	VG5033	30-6110	VG701	30-7661
V4660	10-10735	VG1388T	30-8561	VG5034	30-6105	VG706	30-7523
V4661	10-10374S	VG1389T	30-8274	VG5035	30-6114	VG709	30-7577
V4662	10-10373	VG1390T	30-8560	VG5036	30-6115	VG710	30-7576
V4663	10-10730S	VG1391T	30-8574	VG5038	30-7715	VG711	30-8143
V4664	10-10696S	VG1393T	30-8582	VG5039	30-7197	VG712	30-9462
V4665	10-10729	VG1394T	30-8397	VG5040	30-7669	VG713	30-9557
V4666	10-10695	VG1396T	30-8583	VG5041	30-7680	VG714	30-7575+2
V4669	10-10502	VG1397T	30-8577	VG5042	30-7679	VG714	30-7575
V4670	10-10538	VG1398T	30-8155	VG5044	30-7205	VG715	30-7574
V4671	10-2014	VG1400T	30-8554	VG5046	30-6107	VG718	30-7711
V4672	10-2015	VG1401T	30-8569	VG5047T	30-9107	VG721	30-7589
V4673	10-1997	VG1402T	30-8388	VG5051T	30-9105	VG722	30-7578
V4674X	10-2010S	VG1403T	30-8389	VG5052T	30-9715	VG729	30-7395
V4675	10-1998	VG1404T	30-8293	VG5055T	30-9459	VG731	30-8021
V4676	10-1999	VG1405T	30-8292	VG5056T	30-9119	VG732	30-8020
V4677	10-1918	VG1412	30-3020	VG5057T	30-9554	VG734	30-7499
V4678	10-1919	VG1413	30-8663	VG5058T	30-9110	VG736	30-7823
V4679	10-2234	VG1416T	30-8207	VG5059T	30-9114	VG737	30-7822
V4680	10-2235	VG1418T	30-8571	VG5060H	30-9458H	VG742	30-7825
V4681	10-1993	VG1419T	30-8558	VG5060T	30-9458	VG743	30-7826
V4682	10-2220	VG1420T	30-8139	VG5061	30-7459	VG747	30-7659
V4683	10-1993	VG1423T	30-8584	VG5062	30-6108	VG748	30-7710
V4684	10-1994	VG1424T	30-8585	VG5063	30-9708	VG750	30-7656
V4685	10-2118	VG1425T	30-8203	VG5064	30-7448	VG751	30-7714

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Sealed Power / FM		Sealed Power / FM		Sealed Power / FM		Sealed Power / FM	
VG757	30-8017	VK225	34-237	VS446	32-576	VS802	32-1227-D
VG7578	30-8389	VK227	34-234	VS471	32-611	VS813	32-1202
VG7588	30-7873	VK228	34-235	VS485	32-619	VS814	32-1197
VG760	30-7828	VK230	34-235	VS510	32-672	VS822	32-1242
VG776	30-7852	VK232	34-716	VS521	32-685-D	VS843	32-1213
VG783	30-7681	VK235	34-234	VS534	32-696	VS847	32-1247
VG784	30-7682	VK241	34-5005	VS562	32-715	VS848	32-1370
VG788	30-8201	VK242	34-5011	VS585	32-745-D	VS849	32-1368
VG789	30-8202	VK243	34-5007	VS591	32-735	VS859	32-1330-D
VG790	30-8208	VK245	34-5008	VS624	32-778	VS860	32-1246
VG791	30-8038	VK247	34-5001	VS644	32-804	VS861	32-1374
VG792	30-8195	VK248	34-5009	VS648	32-807	VS862	32-1242
VG796	30-8233	VK249	34-5010	VS651	32-813	VS863	32-1244
VG797	30-8157	VK250	34-5011	VS653	32-886	VS876	32-1400
VG803	30-8158	VK251	34-5012	VS656	32-812	VS888R	32-1009
VG804	30-7712	VK261	34-165	VS657	32-816-D	VS901	32-1398
VG806	30-8214	VK283	34-00992	VS658	32-815-D	VS907	32-1304
VG809	30-8273	VK288	34-281	VS660	32-867	VS908	32-1386
VG811	30-8198	VK288	34-03722	VS661	32-786-D	VS909	32-1268
VG812	30-8211	VK291	34-5005	VS665	32-814	VS917	32-1290
VG813	30-8212	VK292	34-510	VS666	32-863	VS918	32-1250
VG814	30-8156	VK293	34-03722	VS668	32-883	VS919	32-1201
VG815	30-8155	VK295	34-719	VS671	32-864-D	VS920	32-1420
VG816	30-8324	VK296	34-07050	VS672	32-902	VS922	32-1301-D
VG817	30-8016	VK297	34-5024	VS673	32-869	VS923	32-1302-D
VG819	30-8153	VK50	34-860	VS674	32-884-D	VS924	32-1303
VG822	30-8213	VK63	34-743	VS675	32-891-D	VS925	32-1391-D
VG823	30-8218	VK66	34-746	VS677	32-880-D	VS941	32-1530
VG824	30-8216	VK66R	34-746	VS678	32-901-D	VS949	32-1430
VG825	30-8217	VK97	34-310	VS682	32-909-D		
VG828	30-8204	VS1435	32-1149	VS690	32-922		
VG869	30-7429N	VS1436	32-1167	VS691	32-923		
VG870	30-7451N	VS1445	32-1405	VS703	32-991		
VG883	30-7830	VS1455	32-1378	VS704	32-1015		
VG890	30-8021	VS1456	32-1278	VS707	32-935-D		
VG897	30-8154	VS1457	32-1246	VS708	32-1009		
VG899	30-8205	VS1460	32-1262-D	VS710	32-1002-D		
VG901	30-8191	VS1461	32-1289	VS711	32-1001		
VG902	30-8190	VS1462	32-1258	VS712	32-1003-D		
VG903	30-8194	VS1509	32-1066	VS713	32-999		
VG904	30-8193	VS1528	32-1310	VS717	32-907-D		
VG909	30-8015	VS1529	32-1377	VS718	32-1011		
VG910	30-8219	VS1530	32-1380	VS720	32-1016-D		
VG911	30-8036	VS1543	32-1299	VS721	32-1016		
VG913	30-8147	VS1550	32-1558	VS722	32-1044		
VG914	30-8255	VS1565	32-2460	VS726	32-1034		
VG915	30-8189	VS1567	32-1290	VS727	32-1038-D		
VG916	30-8014	VS1568	32-1266-D	VS728	32-1041-D		
VG917	30-8291	VS1572	32-04007	VS72931	38-6131-55		
VG927	30-8142	VS1575	32-611	VS730	32-1040		
VG929	30-8196	VS1614	32-677-D	VS733	32-1086		
VG936	30-8215	VS1618R	32-1016-D	VS739R	32-943-D		
VK115	34-555	VS1628	32-2212	VS743	32-1082		
VK115R	34-555	VS1630	32-1684	VS747	32-1126		
VK138	34-613	VS1640	32-04013	VS748	32-1175		
VK138R	34-613	VS1643	32-2302	VS751	32-1131		
VK140	34-802	VS1644	32-04018	VS752	32-1130		
VK144	34-614	VS1647	32-04026	VS753	32-1048		
VK144R	34-614	VS1648	32-2475	VS754	32-1047		
VK174	34-766	VS1649	32-2215	VS755	32-1066		
VK174R	34-766	VS1651	32-2406	VS757	32-1053		
VK194	34-219	VS1652	32-2412	VS759	32-1049		
VK204	34-619	VS1653	32-04005	VS761	32-1107		
VK205	34-620	VS1656	32-04030	VS762	32-1106		
VK205R	34-620	VS1657	32-04053	VS766	32-1123		
VK207	34-212	VS1658	32-02061	VS767	32-1125		
VK208	34-213	VS1659	32-2500	VS786	32-1135		
VK210	34-811	VS1665	32-2476	VS789	32-1096		
VK213	34-813	VS313	32-433	VS795	32-1061		
VK215	34-819	VS415	32-529	VS797	32-1196		
VK216	34-217	VS424	32-558	VS798	32-1190-D		
VK219	34-208	VS445	32-577	VS799	32-1195-D		

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1208	38-1064-75
1304412	38-2006-25
1304416	38-2006-25
15076	38-921-15
15105	38-713-15
15108	38-905-15
15113	38-766-15
15115	38-911-15
15120	38-450-15
15124	38-915-15
15126	38-916-15
15144	38-950-15
15205	38-231-15
15241	38-530-15
15320	38-907-15
15333	38-240-15
15389	38-731-15
15483	38-937-15
15612	38-910-15
15616	38-928-15
15704	38-925-15
15782	38-737-15
15977	38-780-15
1610	38-1062-70
1711	38-1065-70
1811	38-1054-70
1812	38-1068-70
2214	38-1055-70
25076	38-921-25
25108	38-905-25
25113	38-766-25
25115	38-911-25
25118	38-2006-25
25120	38-450-25
25124	38-915-25
25126	38-916-25
25144	38-950-25
25205	38-231-25
25241	38-530-25
25333	38-240-25

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25389	38-731-25
25483	38-938-25
25612	38-910-25
25614	38-982-25
25616	38-928-25
25619	38-931-25
25704	38-925-25
25736	38-951-25
25923	38-535-25
25977	38-780-25
35025	38-260-35
35129	38-255-35
35140	38-259-35
35563	38-250-35
35595	38-923-35
35793	38-261-35
35823	38-922-35
45120	38-450-45
45225	38-225-45
45241	38-253-45
45338	38-810-45
45341	38-823-45
45356	38-936-45
45357	38-936-45
45396	38-812-45
45397	38-397-45
45398	38-830-45
45483	38-938-45
45506	38-935-45
45519	38-824-45
45616	38-252-45
45704	38-1045-70
45799	38-936-45
45923	38-535-45
45977	38-254-45
55542	38-542-55
55603	38-961-55
55604	38-962-45
55606	38-965-45
55607	38-966-55
55608	38-964-55
55610	38-968-45
55611	38-971-45
55614	38-967-55
55620	38-978-55
55817	38-900-45
55818	38-901-45
65070	38-964-65
65097	38-097-65
65125	38-125-65
A100	33-1006
A101	33-1016
A102	33-1026
A102HP	33-1026-5
A103	33-1036
A103HP	33-1036-5
A104	33-1046
A105	33-1056
A106	33-1066
A107	33-1076
A108HP	33-1086-5
A200	33-2006
A201	33-2016
A201HP	33-2016-5
A202	33-2026
A203	33-2036
A203HP	33-2036-5
A203S	33-2036-1
A300	33-3006
A301	33-3016
A301HP	33-3016-5
A302	33-3026

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A303	33-3036
A303HP	33-3036-5
A304	33-3046
A305	33-3056
A305HP	33-3056-5
A306	33-3066
A306	33-3066-5
A306SHP	33-3066-15
A400	33-4006
A400S	33-4006-1
A401	33-4016
A404	33-4046
A405	33-4056
A407	33-4076
A408	33-4086
A502	33-5026
A503	33-5036
A503HP	33-5036-5
A505	33-5056
A506	33-5066
A512HP	33-5126-5
A514HP	33-5146
A601HP	33-6016-5
A801	33-8016-5
A880	33-8806-5
B100	33-1003
B101	33-1013
B102	33-1023
B103	33-1033
B103HP	33-1033-5
B104	33-1043
B105	33-1053
B106	33-1063
B107	33-1073
B107HP	33-1073-5
B200	33-2003
B201	33-2013
B201HP	33-2013-5
B202	33-2023
B203	33-2033
B203HP	33-2033-5
B203S	33-2033-1
B204	33-2043
B300	33-3003
B301	33-3013
B301HP	33-3013-5
B302	33-3023
B303	33-3033
B303HP	33-3033-5
B304	33-3043
B305	33-3053
B305HP	33-3053-5
B306	33-3063
B306HP	33-3063-5
B306SHP	33-3063-15
B400	33-4003
B400S	33-4003-1
B401	33-4013
B403	33-4033
B404	33-4043
B407	33-4073
B408	33-4083
B601HP	33-6013-5
B603HP	33-6033-5
B802	33-8023-5
DT1611	38-1090-75
DT1612	38-1091-75
DT1710	38-1046-75
DT1711	38-1066-75
DT1712	38-1067-75
DT1811	38-1100-75
DT9010	38-1053-75

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NUV0405F1	38-827-45
VK281C	34-281
<b>Smart</b>	
1350530001	10-3224
1350530005	10-3225
<b>Stanadyne</b>	
12301	36-969
12303	36-2083
12307	36-900CCI
12329	36-2011CCI
12335	36-2056
12338	36-2012
12341	36-2105
12343	36-817CCI
12355	36-2148
12356	36-2217
12357	36-2269
12369	36-2236
12372	36-900CCI
12373	36-2205
12376	36-6000
12377	36-2254
12410	36-2084
<b>Studebaker</b>	
1563982	10-399
1564157	10-400
1565711	10-400
<b>Subaru</b>	
13120AA110	36-2254
13201AA080	10-10299
13201AA081	10-10299
13201AA082	10-10299
13201AA340	10-13139S
13201AA361	10-10806
13201AA371	10-13201
13201AA391	10-13201
13201AA400	10-13201
13201AA460	10-3049
13201AA493	10-3048
13201AA522	10-13259
13201AA550	10-13261
13202AA110	10-10300
13202AA112	10-10300
13202AA170	10-10300
13202AA171	10-10300
13202AA371	10-10807
13202AA401	10-13203S
13202AA411	10-13203S
13202AA470	10-3050
13202AA502	10-3047
13202AA590	10-13262
13202AA660	10-13203S
13210AA020	34-5035
13210KA031	34-5034
13211KA001	38-1321-55
13212AA040	30-8203
13212AA090	30-8564
13212AA100	30-8565
13212AA130	30-3118
13212AA150	30-3218
13213AA040	30-8145
13213AA100	30-8565
13213AA120	30-3119
13213AA140	30-3219
13230AA110	36-2254
3809002100	30-8145
380902100	30-8145

## Subaru

3809102100	30-8146
380912100	30-8146
4809101300	30-8145
480911300	30-8145
880904410	30-8143
<b>Suzuki</b>	
1111554G00001	30-3128
1111560B11001	30-8324
1111562D00001	30-8144
1111582000001	30-8144
1111582000001	30-8016
1111585FA0001	30-8566
1111586500001	30-8016
1289186511	36-2272
1289186512	36-2272
1291159J00	10-13276
1291160A10	10-10172
1291160B20	10-10169
1291165J00	10-13197
1291165J01	10-13197
1291171C00	10-10516
1291178K00	10-13215
1291179K00	10-13204
1291182000	10-10103
1291182010	10-10103
1291186FA0	10-10786
1291186FA1	10-10786
1291559J00	10-13277
1291560A00	10-10173
1291560A50	10-10173
1291560B20	10-10170
1291560B70	10-10170
1291565J01	10-13198
1291571C00	10-10517
1291571C50	10-10517
1291578J00	10-13335
1291578J10	10-13335
1291578K00	10-13216
1291582000	10-10302
1291582001	10-10302
1291582050	10-10302
1291582062	10-10302
1291582Z00	10-3181
1291582Z30	10-3181
1291585FAI	10-10787S
1291586500	10-10304
1291586510	10-10304
1291586F50	10-10787S
1292160A00	32-1457
1292178J00	32-5001
1292182Z00	32-5006
1292182Z10	32-5007
1292182Z11	32-5007
1292182Z40	32-5006
1293278J00	34-5032
1293282000	34-5009
1293282Z00	34-5012
1293285FA0	34-5022
1293378J00	38-6036-55
1293378J00	38-6036-55
5862021850	34-5008
928905012	38-701-45
928906003	38-998-45
928907005.2	38-700-45
928907007	38-700-45
<b>Topline</b>	
A2011	36-2011CCI
A2012	36-2012
A2032	36-2032

# O.E. AND COMPETITOR INTERCHANGE

Topline		Topline		Topline		Topline	
A2056	36-2056	EVD29	10-10225	EVGT055	30-3135	EVRE8	10-10131S
A2083	36-2083	EVD30	10-10229	EVGV03	30-8553	EVSU11L	10-13140S
A2084	36-2084	EVD31	10-10227S	EVH10L	10-10113S	EVSU11S	10-10807
A2089	36-2089	EVD34	10-10538	EVH13	10-10187S	EVSU12	10-3047
A2095	36-2095	EVD36	10-10793S	EVH14	10-10189	EVSU12T	10-3047
A2104	36-2104	EVD36A	10-2182S	EVH14L	10-10413	EVSU12TL	10-13262
A2105	36-2105	EVD37	10-10536	EVH15	10-10193	EVSU13	10-3050
A2148	36-2148	EVD3L	10-10278S	EVH18L	10-10196	EVSU15	10-13203S
A2201	36-2104	EVD40	10-10795	EVH19	10-10196	EVSU9	10-10300
A2205	36-2205	EVD41	10-03030	EVH20	10-10198	EVSZ11	10-13277
A2217	36-2217	EVD41A	10-13221	EVH21	10-10191	EVSZ15	10-13216
A2236	36-2236	EVD41HR	10-13221	EVH23	10-10414	EVSZ2	10-10302
A2244	36-2244	EVD42	10-3181	EVH25	10-10525	EVSZ2L	10-10102S
A2252	36-2296	EVD42L	10-13080	EVH26	10-10198	EVSZ2L	10-10170
A2254	36-2254	EVD43	10-3087	EVH29	10-10207	EVSZ3	10-10304
A2255	36-2273	EVD44	10-3087	EVH34	10-10542	EVSZ4	10-10173
A2269	36-2269	EVD48	10-13234	EVH42	10-3063	EVSZ4	10-10173S
A2270	36-2270	EVDW3	10-2250S	EVH50	10-13359	EVSZ5	10-10517
A2271	36-2271	EVFD2	10-10153	EVH9L	10-10080S	EVSZ8	10-10787S
A2272	36-2272	EVFD3	10-10153	EVHY11	10-13191	EVTO14L	10-10320S
A2276	36-2276	EVFD4	10-10386	EVHY13	10-13287	EVTO15	10-10326S
A2277	36-2277	EVFD5	10-10388	EVHY14	10-13287	EVTO17	10-10071
A2279	36-2279	EVFD6	10-1914	EVHY2	10-10548	EVTO18	10-10106
A2280	36-2271	EVFD7	10-1746	EVHY22	10-30101	EVTO18F	10-10177
A2292	36-2292	EVFD8	10-30125	EVHY23	10-30105	EVTO20	10-10338S
A2308	36-2271	EVGAC1	30-8154	EVHY2L	10-10549	EVTO21	10-10333
A2319	36-7082	EVGAC3	30-8577	EVHY3	10-10724	EVTO24	10-10323
A2332	36-2332	EVGC11	30-7589	EVHY4	10-10813	EVTO25	10-10420
A817	36-817CCI	EVGC23	30-7575	EVHY5	10-10817	EVTO26	10-10311
A872	36-872	EVGC24	30-7451N	EVHY7	10-10809	EVTO27	10-10474
A900	36-900CCI	EVGC31	30-3019	EVHY9	10-10811	EVTO28	10-10315
A951	36-951	EVGC4	30-7714	EVIS12	10-10503	EVTO29	10-10507
A969	36-969	EVGD25	30-8215	EVIS13	10-10740	EVTO30	10-10340
A976	36-976	EVGD26	30-8389	EVIS16	10-2040S	EVTO31	10-10340
A992	36-992	EVGD26Z	30-8544	EVIS3	10-10104	EVTO32	10-10138
ALAMA12	36-2254	EVGD28	30-8212	EVIS6	10-10220S	EVTO33	10-10306S
ALAMI4H	36-6000	EVGD29	30-8218	EVIS7	10-10221S	EVTO34	10-10553S
EV037	10-10734S	EVGD30	30-8217	EVK2	10-10159	EVTO35	10-10306S
EV049	10-10364S	EVGD31	30-8204	EVK5	10-10815	EVTO35	10-10305
EV051C	10-10356S	EVGD43	30-3245	EVK6	10-2197	EVTO36	10-10519
EV051H	10-10352S	EVGD44	30-3245	EVK7	10-2195	EVTO38	10-10474
EV056	10-10006	EVGG19	30-7710	EVK8	10-10813	EVTO39	10-10736
EV068	10-10369S	EVGH12	30-7659	EVK8	10-13039	EVTO39L	10-10781
EV069	10-10370S	EVGH16	30-8155	EVMA10	10-10246S	EVTO41	10-2240
EV069D7	10-10732S	EVGH21	30-8157	EVMA12	10-10163	EVTO42	10-2178S
EVAC2	10-10437	EVGH28	30-8583	EVMA13	10-10235	EVTO43	10-10738S
EVAC3	10-10435	EVGH29	30-8581	EVMA14	10-10513	EVTO44	10-10799
EVAC7	10-03032	EVGH44	30-3137	EVMA15	10-10551	EVTO47	10-13089
EVAC7S	10-03032	EVGHY2	30-8573	EVMA16	10-10244	EVTO48	10-3089
EVAC9	10-10779	EVGHY7	30-8573	EVMA17	10-10563	EVTO49	10-13087
EVC11	10-10097	EVGIS10	30-8291	EVMA18	10-10248	EVTO55	10-3205
EVC23	10-10091S	EVGIS16	30-3011	EVMA20	10-10515	EVTO56	10-3199
EVC23L	10-10146	EVGIS3	30-8015	EVMA21	10-1597	EVTO8	10-10037
EVC24L	10-1552	EVGIS8	30-8255	EVMA25	10-2007	EVTO80	10-10330
EVC26	10-1731	EVGM1	10-2248S	EVMA25T	10-13306	EVVO14	10-03008
EVC26L	10-2009	EVGM3	10-3402	EVMA27	10-1788	EVVW11	10-10557S
EVC27	10-1742	EVGMA10	30-8141	EVMA7	10-10060S	EVVW12	10-10803S
EVC27L	10-1992	EVGMA13L	30-8174	EVMA8	10-10237	EVVW17	10-3095
EVC3	10-10093	EVGMA18	30-8541	EVMA9	10-10155	EVVW21	10-3097
EVC31	10-1921	EVGMI20	30-7577	EVMA9T	10-10159	EVVW22	10-13313
EVC4	10-10086	EVGMI22	30-8571	EVMI20	10-10140	EVVW22L	10-13311
EVD10	10-10271	EVGMI35	30-3243	EVMI22	10-10499	IV027	10-10353S
EVD14	10-10036S	EVGMI6	30-8194	EVMI24	10-10535	IV037	10-10733
EVD15	10-10269	EVGMI9	30-7577	EVMI27	10-10501	IV049	10-10363
EVD24	10-10252	EVGSU11	30-8203	EVMI28	10-10535	IV051	10-10351
EVD24L	10-10256	EVGSU12	30-3219	EVMI2L	10-10497	IV051H	10-10358S
EVD25	10-10260S	EVGSU13	30-8565	EVMI34	10-3081	IV056	10-10007
EVD26	10-10282	EVGTO17	30-7534	EVMI35	10-3083	IV069	10-10367
EVD26Q	10-10282S	EVGTO18	30-8021	EVMI3L	10-10142	IV069D7	10-10731
EVD26Z	10-10285S	EVGTO24	30-8202	EVMI5	10-10144	IVA5H	10-10350S
EVD27	10-10258	EVGTO34	30-8585	EVMI6	10-10128	IVAC2	10-10436
EVD28	10-10274S	EVGTO38	30-8273	EVMI9	10-10625	IVAC3	10-10434

# O.E. AND COMPETITOR INTERCHANGE

Topline		Topline		Topline		Topline	
IVAC7	10-03031	IVGH28	30-8582	IVMA16	10-10243	IVTO49	10-13086
IVAC7S	10-03031	IVGH29	30-8580	IVMA17	10-10562	IVTO55	10-3204
IVAC9	10-10778	IVGH3	30-7830	IVMA18	10-10247	IVTO56	10-3198
IVAC9M	10-13336	IVGH44	30-3136	IVMA20	10-10514	IVTO8	10-10048
IVAC9S	10-13336	IVGHY2	30-8572	IVMA21	10-1598	IVTO80	10-10328
IVC11	10-10098	IVGHY7	30-8572	IVMA25	10-2006	IVVO14	10-03007
IVC23	10-10092	IVGIS16	30-3010	IVMA25T	10-13305	IVVO4	10-10406
IVC23L	10-10145	IVGIS3	30-8014	IVMA27	10-1787	IVVW11	10-10556
IVC24L	10-1553	IVGM1	10-2247	IVMA7	10-10061	IVVW12	10-10804S
IVC26	10-1730	IVGM3	10-3401	IVMA8	10-10236	IVVW16	10-13314
IVC26L	10-2008	IVGMA10	30-8140	IVMA9	10-10154	IVVW17	10-3094
IVC27	10-1741	IVGMA13L	30-8187	IVMA9T	10-10157	IVVW21	10-3096
IVC27L	10-1991	IVGMI20	30-7576	IVMI2	10-10136	IVVW22	10-13312
IVC3	10-10087	IVGMI22	30-8554	IVMI20	10-10139	IVVW22L	10-13310
IVC31	10-1920	IVGMI6	30-8193	IVMI22	10-10498	LIF037	36-2295
IVC4	10-10094	IVGMI9	30-7576	IVMI24	10-10534	LIF049	36-2251
IVD10	10-10272	IVGSU11	30-8203	IVMI27	10-10500	LIFAC1L	36-6033
IVD10H	10-10270	IVGSU12	30-3218	IVMI28	10-10534	LIFC24	36-2105
IVD14	10-10015	IVGSU13	30-8564	IVMI2A	10-10496	LIFC26	36-2278
IVD15	10-10268	IVGTO17	30-7540	IVMI2B	10-10495	LIFC28	36-2278
IVD24	10-10251	IVGTO18	30-8020	IVMI34	10-3080	LIFC31	36-2297
IVD24L	10-10255	IVGTO24	30-8201	IVMI35	10-3082	LIFD26	36-2198
IVD25	10-10259	IVGTO34	30-8584	IVMI3L	10-10141	LIFD27	36-2277
IVD26	10-10281	IVGTO50	30-3134	IVMI5	10-10143	LIFD29	36-2284
IVD26Q	10-10281	IVGTO55	30-3134	IVMI6	10-10126	LIFD30	36-2285
IVD26Z	10-10284	IVGVO3	30-8551	IVMI9	10-10624	LIFD31	36-2286
IVD27	10-10257	IVH10L	10-10115	IVMI9	10-10624	LIFFD6	36-2271
IVD27L	10-10263	IVH13	10-10186	IVRE8	10-10130	LIFFD7	36-7022
IVD28	10-10273	IVH14	10-10188	IVSU11L	10-13139S	LIFGM1	36-7089
IVD29	10-10224	IVH15	10-10192	IVSU11S	10-10806	LIFHY4	36-2289
IVD30	10-10228	IVH18	10-10122	IVSU12	10-3048	LIFHY5	36-7090
IVD31	10-10226	IVH18L	10-10742	IVSU12T	10-13259	LIFIS13	36-2291
IVD34	10-10537	IVH19	10-10195	IVSU12TL	10-13261	LIFIS16	36-7021
IVD36	10-10792	IVH20	10-10197	IVSU13	10-3049	LIFK5	36-2292
IVD36A	10-2181	IVH21	10-10190	IVSU15	10-13201	LIFMA13	36-2276
IVD3L	10-10277	IVH21Z	10-10526	IVSU9	10-10299	LIFMA15	36-7017
IVD40	10-10794	IVH25	10-10524	IVSZ11	10-13276	LIFMI6	36-2274
IVD41	10-03029	IVH26	10-10432	IVSZ15	10-13215	LIFSU12	36-7091
IVD41A	10-13220	IVH26	10-10432	IVSZ2	10-10103	LIFS22	36-2272
IVD41HR	10-13220	IVH29	10-10206	IVSZ2L	10-10169	LIFSZ8	36-2272
IVD42	10-3180	IVH34	10-10541	IVSZ4	10-10172	LIFTO18	36-6003
IVD42L	10-13079	IVH42	10-3062	IVSZ5	10-10516	LIFTO23T	36-7008
IVD43	10-3086	IVH45	10-3064	IVSZ8	10-10786	LIFTO24	36-6005
IVD44	10-3086	IVH50	10-13358	IVTO14L	10-10318	LIFTO25	36-2299
IVD48	10-13233	IVH9L	10-10112	IVTO15	10-10324S	LIFTO43	36-7074
IVDW3	10-2249	IVHY11	10-13190	IVTO17	10-10072	LIFTO46	36-7086
IVFD2	10-10118	IVHY13	10-13286	IVTO18	10-10107	LIFVW12E	36-7075
IVFD3	10-10118	IVHY14	10-13286	IVTO18F	10-10176	LIFVW12I	36-7076
IVFD4	10-10385	IVHY22	10-10547	IVTO20	10-10337	LIFVW17	36-7092
IVFD5	10-10387	IVHY22	10-30100	IVTO21	10-10332S	LIFVW22	36-7093
IVFD6	10-1913	IVHY23	10-30104	IVTO23T	10-10325	RAC25	40-2809
IVFD7	10-1745	IVHY3	10-10723	IVTO24	10-10322	RASET08	42-2070
IVFD8	10-30124	IVHY4	10-10812	IVTO25	10-10421	RAT08	40-9106
IVGAC1	30-8153	IVHY4L	10-3065	IVTO26	10-10310	VG027	30-8139
IVGAC3	30-8397	IVHY5	10-10816	IVTO26S	10-10309	VG049	30-7852
IVGC11	30-7578	IVHY7	10-10808	IVTO27	10-10473	VGC26	30-8556
IVGC21	30-7574	IVHY9	10-10810	IVTO28	10-10314	VGC27	30-8555
IVGC24	30-7429N	IVIS12	10-10502	IVTO29	10-10506	VGC31	30-3049
IVGC3	30-7713	IVIS13	10-10739	IVTO30	10-10339S	VGC31	30-3046
IVGC31	30-3019	IVIS16	10-10784	IVTO31	10-10339S	VGD10	30-7826
IVGD25	30-8214	IVIS3	10-10105	IVTO32	10-10137	VGD23	30-7828
IVGD26	30-8388	IVIS6	10-10218	IVTO33	10-10305	VGD24	30-7825
IVGD26Z	30-8543	IVIS7	10-10219	IVTO34	10-10552	VGD27	30-8190
IVGD28	30-8211	IVK2	10-10157	IVTO36	10-10518	VGD3	30-7499
IVGD29	30-8213	IVK5	10-10814	IVTO38	10-10321	VGFD4	30-9198
IVGD30	30-8216	IVK6	10-2196	IVTO39	10-10735	VGH43	30-3136
IVGD31	30-8211	IVK7	10-2194	IVTO39L	10-10780	VGHY11	30-3154
IVGD43	30-3244	IVK8	10-13038	IVTO41	10-2241	VGHY14	30-3152
IVGD44	30-3244	IVMA10	10-10245	IVTO42	10-2177	VGIS10	30-8189
IVGH10	30-7711	IVMA12	10-10162	IVTO43	10-10737	VGIS12	30-8255
IVGH16	30-8156	IVMA13	10-10234	IVTO44	10-10798	VGMA12	30-8142
IVGH21	30-8158	IVMA14	10-10512	IVTO47	10-13088	VGMA13	30-8186
		IVMA15	10-10550	IVTO48	10-3088		

# O.E. AND COMPETITOR INTERCHANGE

Topline		Topline		Toyota		Toyota	
VGMA13	30-8173	VSSSZ2	38-700-45	1113146020	21-1437-72	1371143020	10-10334
VGMA17	30-8561	VSSSZ2L	38-701-45	1113150020	21-1437-72	1371146021	10-10518
VGMA19	30-8587	VSSTO15	38-537-45	1113161010	21-1937-51	1371150020	10-10165
VGMA25	30-3070	VSSTO15	38-520-45	1113162020	21-1375-50	1371150021	10-10165
VGMA27	30-8560	VSSTO15	38-998-45	1113162030	21-1437-72	1371150060	10-10737
VGMA6	30-9557	VSSTO15	38-980-45	1113163010	21-1687-55	1371160021	10-10070
VGMA7	30-9557	VSSTO15	38-553-55	1113165010	21-1750-68	1371161010	10-10070
VGMA8	30-8172	VSSTO15	38-938-45	1113174010	21-1437-67	1371161020	10-10070
VGMA9	30-8205	VSSTO18	38-097-65	1113174020	21-1375-56	1371162020	10-10332S
VGSU6	30-8143	VSSTO34	38-310-55	1113175030	21-1562-76	1371162030	10-10305
VGSU8	30-8145	VSSTO41	38-6108-55	1113176020	21-1562-66	1371165010	10-10339S
VGSU9	30-8203	VSSTO50	38-6110-55	1113511010	21-1312-57	1371166030	10-10679
VGSZ15	30-3128	VSSVW21	38-9675-45	1113511020	21-1062-50	1371171010	10-10322
VGSZ2	30-8016			1113513010	21-1250-50	1371174020	10-10318
VGSZ2L	30-8324	<b>Toyota</b>		1113515010	21-1312-59	1371174080	10-10421
VGSZ3	30-8144	1112210040	30-8195	1113515020	21-1312-59	1371175050	10-10321
VGSZ8	30-8566	1112215011	30-8020	1113515021	21-1312-59	1371175060	10-10321
VGTO15	30-8198	1112215020	30-8020	1113515030	21-1062-50	1371175110	10-3088
VGTO18L	30-8038	1112215030	30-8147	1113516010	21-1125-51	1371176020	10-10473
VGTO20	30-8208	1112216010	30-8038	1113525011	21-1500-59	1371188360	10-10324S
VGTO26	30-8195	1112216020	30-8038	1113535010	21-1562-67	1371188361	10-10324S
VGTO28	30-8147	1112220020	30-8584	1113538010	21-1500-61	1371188362	10-10325
VGTO29	30-8147	1112221010	30-3220	1113542010	21-1187-52	1371188600	10-2177
VGTO31	30-8207	1112222020	30-7541	1113545010	21-1437-56	1371211020	10-10309
VGTO39	30-8584	1112225021	30-7540	1113546020	21-1250-58	137150D010	10-10781
VGTO41	30-3220	1112231050	30-3134	1113546050	21-1250-58	137150H010	10-10799
VGTO42	30-3221	1112235020	30-7523	1113550020	21-1250-58	137150P010	10-13087
VGTO48	30-3248	1112238020	30-7523	1113560010	21-1625-58	137150P030	10-13087
VGTO49	30-3134	1112238021	30-7523	1113562020	21-1187-53	137150S020	10-13087
VGTO8	30-7523	1112240010	30-7538	1113563010	21-1437-66	1371510030	10-10311
VGW12	31-03419	1112242010	30-8208	1113565010	21-1562-72	1371511030	10-10138
VGW17	30-3251	1112254011	30-8196	1113565011	21-1562-72	1371515010	10-10106
VGW21	30-3252	1112260020	30-7528	1113571010	21-1500-58	1371515030	10-10315
VGW22	30-3253	1112260020	30-7532	1113574010	21-1250-55	1371515050	10-10315
VSS027	38-978-55	1112261011	30-7528	1113574020	21-1187-51	1371515070	10-10507
VSS056	38-978-55	1112261011	30-7532	1113574030	21-1187-51	1371516010	10-10177
VSSC11	38-996-55	1112265020	30-8207	1113576020	21-1312-67	1371516060	10-10507
VSSC17	38-480-45	1112266020	30-8586	1113576040	21-1312-67	1371520020	10-10553S
VSSC17	38-964-55	1112271020	30-8201	1113711020	21-1062-50	1371520030	10-10553S
VSSC17	38-982-25	1112274030	30-8147	1115650040	30-8273	1371521010	10-2240
VSSC17	38-981-25	1112275020	30-3248	1371101010	10-10107	1371522030	10-10736
VSSC24	38-535-45	1112288320	30-8198	1371103020	10-10421	1371524012	10-10308
VSSC24	38-962-45	1112615011	30-8021	137110D010	10-10780	1371524013	10-10308
VSSC26	38-20-45	1112615020	30-8021	137110H010	10-10798	1371524030	10-10308
VSSD10	38-985-55	1112616020	30-8585	137110P010	10-13086	1371525011	10-10071
VSSD24	38-988-55	1112620020	30-8585	1371110020	10-10310	1371531090	10-13089
VSSD25E	38-518-45	1112622020	30-7535	1371111010	10-10137	1371531140	10-13087
VSSD27	38-518-45	1112625021	30-7534	1371111012	10-10137	1371534010	10-10024S
VSSD27	38-994-55	1112631030	30-3135	1371111020	10-10309	1371534011	10-10024S
VSSD29	38-53-45	1112633011	30-7537	1371115010	10-10107	1371534012	10-10024S
VSSD3	38-962-45	1112650040	30-8273	1371115090	10-10506	1371534020	10-10024S
VSSDW3	38-6100-55	1112650050	30-8273	1371116010	10-10176	1371534022	10-10024S
VSSFD4	38-812-45	1112660021	30-7529	1371116060	10-10506	1371534030	10-10024S
VSSH19	38-994-55	1112660021	30-7527	1371120020	10-10552	1371534031	10-10024S
VSSH19	38-976-45	1112660021U10	30-7529	1371121010	10-2241	1371534032	10-10024S
VSSH19	38-569-45	1112661011	30-7529	1371122030	10-10735	1371534033	10-10024S
VSSH21	38-965-45	1112671020	30-8202	1371124011	10-10307	1371534034	10-10024S
VSSH21	38-592-55	1113111010	21-1250-53	1371125011	10-10072	1371534050	10-10024S
VSSH8	38-569-45	1113111020	21-1187-52	1371131070	10-13088	1371535010	10-10330
VSSH8	38-570-45	1113115010	21-1500-71	1371131100	10-13086	1371535020	10-10330
VSSH9	38-542-55	1113115020	21-1500-71	1371131101	10-13086	1371535030	10-10330
VSSHY11	38-6101-55	1113115040	21-1250-54	1371134030	10-10018	1371538010	10-10037
VSSHY13	38-996-55	1113116010	21-1250-54	1371134031	10-10018	1371538011	10-10037
VSSHY14	38-6103-55	1113116040	21-1250-54	1371135010	10-10328	1371538020	10-10037
VSSIS16	38-1329-45	1113124010	21-1500-56	1371135030	10-10328	1371538023	10-10037
VSSIS3	38-967-55	1113125010	21-1687-50	1371135031	10-10328	1371538050	10-10037
VSSMA13	38-998-45	1113135010	21-1937-52	1371135040	10-10328	1371542010	10-10338S
VSSMA13	38-980-45	1113135011	21-1937-52	1371135050	10-10328	1371546020	10-10519
VSSMA25	38-6105-55	1113138010	21-1812-53	1371135051	10-10328	1371550020	10-10166
VSSMA7	38-966-55	1113142010	21-1312-60	1371138010	10-10048	1371550021	10-10166
VSSMA9	38-997-45	1113143010	21-1750-63	1371142020	10-10337	1371550060	10-10738S
VSSSU9	38-1321-55			1371143010	10-10334	1371550070	10-10738S



# O.E. AND COMPETITOR INTERCHANGE

Toyota		Toyota		US Seal		US Seal	
1371560032	10-10069	9091302090	38-475-45	VS274	38-922-35	VS53YV	38-53-45
1371561010	10-10069	9091302090	38-998-45	VS292	38-292-45	VS550V	38-996-55
1371561030	10-10069	9091302091	38-480-45	VS296N	38-921-15	VS553	38-553-55
1371561040	10-10342S	9091302094	38-981-25	VS296P	38-921-25	VS554V	38-965-45
1371562020	10-10333	9091302095	38-537-45	vs304	38-929-15	VS562GV	38-805-45
1371562030	10-10306S	9091302096	38-967-55	VS304P	38-938-25	VS565V	38-976-45
1371562050	10-10306S	9091302101	38-210-55	VS304P	38-925-25	VS565V	38-542-55
1371565010	10-10340	9091302101	38-310-55	VS304XN	38-925-15	VS570AV	38-570-45
1371566030	10-10680	9091302103	38-120-45	VS305V	38-938-45	VS585V	38-585-45
1371571010	10-10323	9091302103	38-998-45	VS306V	38-819-45	VS586	38-586-45
1371574020	10-10320S	9091302105	38-967-55	VS306V	38-821-45	VS586V	38-008-45
1371574050	10-10320S	9091302113	38-310-55	VS309V	38-309-45	VS592	38-592-55
1371574080	10-10420	9091302114	38-210-55	VS31500	38-8500-55	VS650	38-3995-55
1371575040	10-10474	9091303005	34-811	VS31530	38-8530-55	VS650V	38-3995-55
1371575050	10-10474	9091303012	34-208	VS320P	38-535-25	VS651V	38-978-55
1371575100	10-3089	9091303014	34-5005	VS320V	38-535-45	VS654	38-9675-45
1371576020	10-10474	9091303021	34-5011	VS321V	38-935-45	VS690	38-844-45
1371576030	10-10474	9091303028	34-5023	VS322V	38-322-45	VS700V	38-700-45
1371588360	10-10326S	9091303028	34-5023	VS325V	38-830-45	VS701V	38-701-45
1371588601	10-2178S	9091320115	38-310-55	VS347	38-250-35	VS738V	38-6108-55
137500P010	36-7082	90913A3001	34-5023	VS363N	38-911-15	VS775V	38-111-45
137500P020	36-7082	94840062	10-10107	VS363P	38-911-25	VS800	38-800-45
1375071010	36-6005	94840063	10-10106	VS371	38-371-45	VS801V	38-940-45
1375071020	36-6005	94847881	30-8147	VS373	38-373-55	VS802V	38-802-45
1375111010	36-6003			VS375	38-375-55	VS803V	38-803-45
1375116010	36-6003			VS376P	38-931-25	VS804V	38-804-45
1375131140	10-13087			VS377V	38-377-45	VS805	38-805-55
1375150020	36-7074			VS381N	38-915-15	VS805V	38-806-55
1375174020	36-2299			VS381P	38-915-25	VS900	38-900-45
1375188360	36-7008			VS383N	38-916-15	VS901	38-901-45
13801351010	40-9106			VS383P	38-916-25	VSC240V	38-223-55
1381138010	40-9106			VS400V	38-400-55	VSC47	38-752-45
1391238011	42-2070			VS403V	38-403-45	VSCUM41	38-1055-70
9004812019	38-475-45			VS408AP	38-951-25	VSD53V	38-1053-75
9008031043	38-210-55			VS408N	38-950-15	VSDW1	38-6100-55
9008031044	38-310-55			VS408P	38-950-25	VSF16	38-6119-55
9008031046	38-310-55			VS423V	38-840-45	VSF16LV	38-6118-55
9008031102	38-310-55			VS424A	38-1045-70	VSF20	38-571-45
9008050158	32-2450			VS425	38-1065-70	VSF23	38-6105-55
9008050248	32-2451			VS429	38-259-35	VSF24	38-124-45
9050126398	32-1049			VS429A	38-1036-70	VSF24L	38-224-45
9050142003	32-1202			VS433V	38-966-55	VSF25	38-565-45
9050142004	32-1202			VS435V	38-997-45	VSF30L	38-300-45
9050145025	32-1405			VS438V	38-998-45	VSF30V	38-936-45
9050145342	32-1096			VS441V	38-961-55	VSF35V	38-6125-55
9050146001	32-1313			VS442V	38-962-45	VSF39V	38-6120-55
9050147001	32-1135			vs447	38-255-35	VSF54	38-905-45
9050147540	32-1053			VS450V	38-971-45	VSF60	38-160-55
9050437002	32-1550			VS453V	38-964-55	VSF73	38-173-45
9091302016	38-968-45			VS453V	38-480-45	vsg20v	38-3500-45
9091302017	38-971-45			VS456V	38-980-45	VSG22	38-588-45
9091302024	38-981-25			VS458LP	38-981-25	VSG24V	38-247-45
9091302030	38-971-45			VS458P	38-967-25	VSG31LV	38-809-45
9091302033	38-971-45			VS458V	38-967-55	VSG31V	38-031-45
9091302033B	38-971-45			VS459V	38-968-45	VSG35V	38-354-45
9091302038	38-475-45			VS462	38-231-15	VSG36V	38-6036-55
9091302048	38-971-45			VS462N	38-231-15	VSG40	38-407-45
9091302053	38-967-55			VS462P	38-231-25	VSG65	38-552-45
9091302057	38-981-25			VS463V	38-956-45	VSG66	38-299-45
9091302058	38-981-25			VS464V	38-828-45	VSG81	38-811-55
9091302062	38-475-45			VS46V	38-46-45	VSEMI3V	38-812-45
9091302064	38-967-55			VS475V	38-475-45	VshemiV	38-345-55
9091302066	38-475-45			VS480V	38-480-45	VSMINI16V	38-6130-55
9091302079	38-475-45			VS481	38-481-45	VSP2V	38-569-45
9091302080	38-981-25			VS503L	38-503-55	VSR20	38-6117-55
9091302081	38-475-45			VS503V	38-985-55	VSSUB1V	38-1321-55
9091302085	38-475-45			VS504V	38-994-55	VST100V	38-120-45
9091302086	38-475-45			VS510V	38-988-55	VST30EV	38-310-55
9091302087	38-475-45			VS518V	38-518-45	VST30I	38-210-55
9091302088	38-475-45			VS520V	38-520-45	VST93U	38-6108-55
9091302088	38-998-45			VS530	38-532-55	ZEVCR20N	10-1742
9091302089	38-475-45			VS537V	38-537-45	ZEVMI4G61	10-10128
		<b>US Seal</b>					
		BMW2BV	38-1329-45				
		VL1054	34-235				
		VS104V	38-810-45				
		VS107	38-107-55				
		VS108V	38-108-45				
		VS110V	38-843-45				
		VS11500	38-9500-55				
		VS11530	38-9530-55				
		VS117N	38-731-15				
		VS117P	38-731-25				
		VS125V	38-823-45				
		VS133N	38-240-15				
		VS133P	38-240-25				
		VS137N	38-530-15				
		VS137P	38-530-25				
		VS137V	38-530-45				
		VS155V	38-824-45				
		VS1611	38-1090-75				
		VS163N	38-737-15				
		VS173N	38-780-15				
		VS173P	38-780-25				
		vs174v	38-254-45				
		VS186P	38-982-25				
		VS191N	38-713-15				
		VS20NV	38-20-45				
		VS221N	38-766-15				
		VS221P	38-766-25				
		VS222N	38-928-15				
		VS222P	38-928-25				
		VS223V	38-253-45				
		VS225V	38-6116-45				
		VS226	38-226-45				
		VS230P	38-827-25				
		VS230V	38-827-45				
		VS232N	38-450-15				
		VS232P	38-450-25				
		VS233V	38-450-45				
		VS267N	38-905-15				
		VS267P	38-905-25				
		VS269N	38-910-15				
		VS269P	38-910-25				
		VS270RV	38-119-35				
		VS270V	38-252-45				
		VS273	38-923-35				
		VS273RV	38-4788-35				

# O.E. AND COMPETITOR INTERCHANGE

## US Seal

ZEVTO22R	10-10330
ZIVCR20N	10-1741
ZIVMI4G61	10-10126
ZIVMI4G64S	10-10534
ZIVTO22R	10-10328
ZP10723	10-10723
ZP10724	10-10724
ZP1730	10-1730
ZP1731	10-1731
ZP1920	10-1920
ZP1921	10-1921
ZP2247	10-2247
ZP2248	10-2248S
ZP4362	10-10784
ZP4363	10-2040S
ZP4614	10-10805S
ZP4615	10-10804S
ZP5002	10-2249
ZP5003	10-2250S

## Volkswagen/Audi

021109601E	10-10556
021109601H	10-10556
021109611D	10-10557S
022109423D	36-7092
022109601G	10-13312
022109601H	10-13310
022109611N	10-13313
022109611P	10-13311
026109601C	10-10350S
026109601F	10-10158S
026109675	38-978-55
027103419	30-8139
027103419	31-03419
027109601C	10-10353S
027109611D	10-10355S
027109675	38-978-55
028109601H	10-3076
028109611G	10-10732S
032109601M	10-3190
032109611L	10-3191
034109309AD	36-2251
034109611B	10-10356S
035109601C	10-09658
035109601G	10-10358S
035109601H	10-10358S
035109601J	10-10358S
035109611F	10-09599
036109651A	34-5021
036109675A	38-9675-45
037103419B	30-8558
037109601	10-10733
037109611B	10-10734S
038109601B	10-3078
038109601E	10-3078
038109611B	10-3079
038109611E	10-3079
038109611F	10-3079
043109611	10-09561
045109601	10-3078
045109611	10-3079
046109601J	10-3076
046109611F	10-3077
048109601A	10-10158S
048109611A	10-10356S
048109611B	10-10734S
049103419	30-7852
049109601	10-10007
049109601F	10-10363
049109603	10-10007
049109611F	10-10364S

## Volkswagen/Audi

049109613	10-10006
053109611	10-10356S
056106611A	10-10006
056109601A	10-10007
056109601C	10-10007
056109611A	10-10006
056109611B	10-10006
056109623A	32-1106
056109633A	32-1107
058109309E	36-7075
058109309F	36-7076
058109601C	10-10804S
058109611E	10-10805S
058109611M	10-10803S
058109633	32-04035
068109601C	10-10367
068109601D	10-10367
068109611	10-10369S
068109611C	10-10370S
068109611D	10-10370S
06D109601K	10-3094
06D109601M	10-3094
06D109611K	10-3095
06D109611L	10-3095
06E109601E	10-13314
077109601Q	10-3182
077109611S	10-3183
078109601A	10-10733
078109601B	10-10733
078109611B	10-10734S
078109623A	32-1106
078109623B	32-04036
078109633A	32-1107
113109601D	10-09560
113109612A	10-09541
113109651A	34-619
126109601	10-10351
126109601D	10-10351
311109601	10-09540
311109612	10-09541
311109612A	10-09541
36109675A	38-9675-45

## Volvo

12181368	21-1562-71
12181822	21-1812-59
12570586	32-1242
12664165	21-1875-57
12664199	21-1562-78
13066303	30-8552
13177936	10-10406
13668827	10-03008
13976410	10-03007
35017755	38-978-55
35476035	30-8551
4196523	30-8553
4633954	10-10406
94714664	10-03008

## New Part Listing

10-349+15	10-1417+5	10-13223	10-13334	22-1812-6	32-5017
10-373+3	10-1434+3	10-13225	10-13335	30-1689	32-5018
10-373+15	10-1434+15	10-13226	10-13342	30-1690	32-5019
10-373+30	10-1437+30	10-13230	10-13356	30-3053H	32-5020
10-375+3	10-1438+30	10-13233	10-13357	30-3061U	32-5021
10-375+30	10-1457+3	10-13234	10-13358	30-3079U	32-5022
10-376+30	10-1463+3	10-13239	10-13359	30-3100	32-5023
10-567+5	10-1464+3	10-13240	10-13343	30-3128	32-5024
10-567+30	10-1464+15	10-13241S	10-13345S	30-3134	34-5030
10-577+5	10-1536+3	10-13244	10-30100	30-3135	34-5031
10-597	10-1548S+3	10-13251	10-30101	30-3136	34-5032
10-637+5	10-1593+15	10-13252	10-30102	30-3137	34-5033
10-742+30	10-1594+15	10-13259	10-30103	30-3149	34-5034
10-917+3	10-1811+3	10-13261	10-30104	30-3152	34-5035
10-917+15	10-1811+15	10-13262	10-30105	30-3154	36-2303FG
10-996S+30	10-3003I	10-13263	10-30106	30-3156	36-2303FLA
10-997+30	10-3204	10-13264	10-30107	30-3162	36-2303RG
10-1017S+5	10-3205	10-13276	10-30108	30-3166	36-2303RLA
10-1120+30	10-3224	10-13277	10-30109	30-3170	36-2332
10-1133S+3	10-3225	10-13286	10-30110	30-3279	36-7005
10-1169+30	10-3401	10-13287	10-30111	30-3284	36-7110
10-1170+3	10-3402	10-13288	10-30112	30-3286	36-7111
10-1170+30	10-10269+3	10-13289	10-30113	30-3288	36-7561
10-1180+3	10-10269+15	10-13290S	10-30114	30-3289	38-4788-35
10-1180+30	10-13079	10-13291S	10-30115	30-3290	38-6125-55
10-1260+30	10-13080	10-13293	10-30116	30-3291	38-6127-55
10-1263+3	10-13086	10-13294	10-30117	30-3292	38-6128-55
10-1265+30	10-13087	10-13295	10-30118	30-3293	38-6130-55
10-1266+30	10-13088	10-13305	10-30119	30-3294	38-6131-55
10-1268+30	10-13089	10-13306	10-30120	30-3295	40-2740
10-1285+3	10-13139S	10-13310	10-30121	30-6730U	40-2813
10-1300+3	10-13140S	10-13311	10-30122	30-8188U	40-2814
10-1320+15	10-13206	10-13312	10-30123	30-8203+2	40-2890
10-1332+3	10-13207	10-13313	10-30124	30-9705+5	40-9111
10-1362+3	10-13211	10-13314	10-30125	31-2074	74-6080
10-1371+30	10-13212	10-13321	10-30126	31-2075	74-6353
10-1388+30	10-13215	10-13322	10-30127	32-4127	96-40MMCSS
10-1389+30	10-13216	10-13323	21-1937-55	32-5008	
10-1394+30	10-13220	10-13324	21-2062-50N	32-5009	
10-1395+30	10-13221	10-13325	21-2062-51N	32-5011	
10-1399+15	10-13222	10-13333	21-2187-50	32-5016	

## Discontinued Part Listing

10-230	10-0621	10-1312S+15	10-1439	10-1717S	10-10084
10-507S	10-0622	10-1322+15	10-1440	10-1743+15	10-10085
10-516	10-1106+3	10-1323+15	10-1470+3	10-1783+15	10-10088
10-530C	10-1107+3	10-1323+3	10-1479+15	10-1806+15	10-10089S
10-531S	10-1135S	10-1326+3	10-1485S+15	10-1807+15	10-10090
10-577+15	10-1152+15	10-1342S	10-1535+15	10-1867	10-10099
10-585	10-1179	10-1342S+15	10-1535+3	10-1868	10-10108S
10-608	10-1206S+15	10-1342S+3	10-1540	10-1874	10-10109
10-609	10-1215	10-1343	10-1541	10-1931+15	10-10119S
10-627+15	10-1216	10-1343+15	10-1542+15	10-2070	10-10120
10-678	10-1243S	10-1353	10-1542S+15	10-03178	10-10121
10-679	10-1244	10-1354+30	10-1553+15	10-03179	10-10123
10-746S	10-1247	10-1355	10-1572	10-09562	10-10127
10-793	10-1250S	10-1359	10-1573S	10-09567	10-10129
10-867	10-1251S	10-1360	10-1600	10-09568	10-10132
10-882+15	10-1254C	10-1361+15	10-1635	10-10058	10-10133S
10-883+15	10-1257+15	10-1367+15	10-1671+15	10-10060S+15	10-10145+15
10-917C+15	10-1297	10-1371+15	10-1693S	10-10060S+3	10-10146+15
10-918+15	10-1307S	10-1372+3	10-1710+3	10-10066	10-10160
10-982S	10-1310	10-1385C	10-1711+15	10-10078	10-10161
10-0457	10-1311	10-1385C+15	10-1716	10-10079	10-10178

<b>Discontinued</b>	10-10365S	21-1312-64	30-7582	32-1101-D	34-224
10-10179	10-10366	21-1500-72	30-7584	32-1105	34-226
10-10180S	10-10376S	21-1562-53	30-7585	32-1129	34-5003
10-10181	10-10377	21-1562-73	30-7699	32-1170	36-2282
10-10184	10-10378S	21-1625-63	30-7699+2	32-1188	36-2283
10-10185S	10-10379	21-1812-57	30-7830+2	32-1194	36-2287
10-10208	10-10380S	21-1875-52	30-7844	32-1198	36-2288
10-10209S	10-10383	21-1937-54	30-7845	32-1199	36-2293
10-10210S	10-10384	22-1722-2	30-7994+10	32-1208	36-2294
10-10214	10-10407S	30-1680+5	30-8016+2	32-1210	36-6004
10-10215S	10-10438	30-1749	30-8018	32-1218	36-6010
10-10232	10-10439	30-1939	30-8020+2	32-1260	36-6035
10-10233	10-10504	30-5712	30-8035	32-1300-D	36-7002
10-10249	10-10505	30-5713	30-8036+2	32-1305-D	36-7106
10-10250	10-10527	30-6191	30-8038+2	32-1309	37-3330
10-10253	10-10543	30-6479	30-8039+6	32-1331-D	37-4004
10-10254	10-10544	30-7083+2	30-8042	32-1347	38-060-65
10-10261	10-10546	30-7246	30-8115+6	32-1353	38-075-65
10-10265S	10-10676	30-7255+5	30-8161	32-1365	38-099-65
10-10287	10-10685	30-7338+2	30-8163	32-1373	38-100-65
10-10292	10-10686	30-7338+3	30-8197	32-1388	38-118-65
10-10294S	10-10687	30-7338+5	30-8200	32-1389	38-251-35
10-10295	10-10688S	30-7357+5	30-8216+2	32-1399	38-258-55
10-10296	10-10746	30-7359	30-8345	32-1402	38-522-25
10-10297S	10-10747	30-7359+2	30-8545+2	32-1425	38-737-25
10-10303	20-1375-4N	30-7451N+002-2	30-9259+2	32-1426	38-794-15
10-10316	20-1562-24	30-7524	30-9583	32-1440	38-950-65
10-10317	20-1625-6N	30-7525	30-9584	32-1441	38-951-15
10-10327	20-1687-20	30-7526	31-8230	32-1445	38-969-55
10-10330	20-1812-24	30-7530	31-8231	32-1446	38-1043-70
10-10331S	20-1875-38	30-7531	31-8585	32-1450	38-3150-55
10-10335	20-2187-24	30-7536	32-1046	32-1471	87-7071
10-10336	20-2187-6	30-7539	32-1065	32-2220	96-6975CSS
10-10348	20-2250-34	30-7578+2	32-1071	32-2402	
10-10349S	20-2312-10	30-7578+6	32-1071-D	32-2410	
10-10360S	20-2312-7	30-7581+2	32-1094	33-1053-5	

## Superseded Part Listing

Superseded #	Superseded By
10-576C	10-576
10-917C	10-917
10-918	10-1057
10-1398	10-1598
10-2000	10-13244
10-03027	10-13276
10-03028	10-13277
10-3057	10-13336
10-3066	10-13190
10-3067	10-13191
10-3070	10-13286
10-3071	10-13287
10-3072	10-13086
10-3073	10-13087
10-3090	10-13088
10-3091	10-13089
10-3098	10-13312
10-3099	10-13313

Superseded #	Superseded By
10-3106	10-13311
10-3203	10-13080
10-3206	10-13221
10-3207	10-13322
10-3208	10-13323
10-3209	10-13325
10-3212	10-13324
10-3214	10-13222
10-3215	10-13223
10-13003	10-13003S
10-13040	10-13240
10-13081	10-13334
10-13082	10-13335
10-13205	10-13335
10-13210	10-13334
22-1711-1S	22-1711-1N
30-3224	30-3136
30-3225	30-3137

Superseded #	Superseded By
30-3234	30-3154
30-3235	30-3154
30-3238	30-3152
30-3239	30-3152
30-3240	30-3134
30-3246	30-3244
30-3247	30-3245
30-8423	30-8188
38-356-45	38-936-45
38-357-45	38-936-45
38-930-35	38-910-25
38-6109-55	38-6108-55
38-6112-55	38-9675-45
55-6350	55-6105
87-7255	87-7257

# Abbreviations

<b>Abbreviation</b>	<b>Meaning</b>
#	Number
"	Inch(es)
8V, 16V, 24V	8, 16, 24 Valve
2BC	Two Barrel Carburetor
2WD	Two Wheel Drive
4BC	Four Barrel Carburetor
4WD	Four Wheel Drive
A/C	Air Conditioning
A/R	As Required
ACERT	Advanced Combustion Emissions Reduction Technology
Addl.	Additional
Alt.	Alternator
Alum.	Aluminum
Amp.	Amperage
Appl.	Application
Assy.	Assembly
Auto.	Automatic
Avail.	Available
C.F.I.	Central Fuel Injection
C.I.	Cubic Inch
Calif.	California
cc	Cubic Centimeters
Comp.	Component
CNG	Compressed Natural Gas
Cyl.	Cylinder(s)
Deg.	Degree
Des.	Design
Dia.	Diameter
Dir.	Direct
DOHC	Double Overhead Cam
EFI	Electronic Fuel Injection
Emis.	Emission
Eng.	Engine(s)
Exc.	Except
Exh	Exhaust
F.I.	Fuel Injection
FWD	Front Wheel Drive
GM	General Motors
G.V.W.	Gross Vehicle Weight
H.D.	Heavy Duty
H.O.	High Output
H.P.	Horse Power
Hi.	High
HSC	High Swirl Combustion
Hyd.	Hydraulic
I.D.	Inside Diameter
Incl.	Includes
Ind.	Indirect
Inj.	Injection
Int	Intake

<b>Abbreviation</b>	<b>Meaning</b>
L	Liter
L.D.	Light Duty
LH	Left Hand
LPG	Liquid Petroleum Gas
M.D.	Medium Duty
Man.	Manual
Mang.	Manganese
Mfg.	Manufacture(d)
Mod.	Modification
N.A.	Naturally Aspirated
OAL	Overall Length
O.D.	Outside Diameter
OHV	Overhead Valve
O/S	Oversize
OEM	Original Equipment Manufacture
Olds.	Oldsmobile
Opt.	Optional
Perf.	Performance
Pkg.	Package
Plym.	Plymouth
PM Matl.	Powdered Metal Material
Pont.	Pontiac
psi	Pounds Per Square Inch
Qt.	Quart
RH	Right Hand
RWD	Rear Wheel Drive
S/C	Supercharged
S/N	Serial Number
Ser.	Series
SOHC	Single Overhead Cam
Sps.	Supersedes / Superseded By
Std.	Standard
T	Tapered
Trans.	Transmission
TRB	Turbo
VIN	Vehicle Identification Number
Vol.	Volume
VVT	Variable Valve Timing
w/	With
w/o	Without
W.P.	Water Pump

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## Part Number Prefixes

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<b>10-</b>	<b>Valve</b>
<b>12-</b>	<b>Racing Valve*</b>
<b>20-</b>	<b>Seat For Cast Iron Head</b>
<b>21-</b>	<b>Seat For Aluminum Head</b>
<b>22-</b>	<b>Seat, Factory Installed (Exact O.D.)</b>
<b>30-</b>	<b>Cast Iron Guide</b>
<b>31-</b>	<b>Manganese-Bronze Guide</b>
<b>32-</b>	<b>Spring</b>
<b>33-</b>	<b>Valve Spring Insert</b>
<b>34-</b>	<b>Keeper</b>
<b>36-</b>	<b>Lifter</b>
<b>37-</b>	<b>Rotator or Retainer</b>
<b>38-</b>	<b>Valve Stem Seal</b>
<b>40-</b>	<b>Rocker Arm</b>
<b>41-</b>	<b>Rocker Kit</b>
<b>42-</b>	<b>Rocker Component</b>
<b>51-</b>	<b>Sport Compact High Performance Valve*</b>
<b>52-</b>	<b>High Performance Spring*</b>
<b>53-</b>	<b>Street Performance Valve*</b>
<b>55-</b>	<b>High Performance Retainer*</b>
<b>74-</b>	<b>Push Rod</b>
<b>75-</b>	<b>Guide Plate*</b>
<b>77-</b>	<b>Black Lightning Racing Valve*</b>
<b>87-</b>	<b>Injector Component</b>
<b>96-</b>	<b>Bulk Expansion Plug</b>
<b>97-</b>	<b>Expansion Plug Kit</b>

**\*See the latest QualFast Performance Catalog!**



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# HEAVY DUTY

## Agricultural and Industrial Catalog

FRACTION	DECIMAL	MILLIMETERS	FRACTION	DECIMAL	MILLIMETERS
	.0098	---2.500		.5118	---13.0000
1/64	.0156	---.3969	33/64	.5156	---13.0969
	.0197	---.5000	17/32	.5313	---13.4938
	.0295	---.7500	35/64	.5469	---13.8906
1/32	.0313	---.7938		.5512	---14.0000
	.0394	---1.0000	9/16	.5625	---14.2875
3/64	.0469	---1.1906	37/64	.5781	---14.6844
	.0591	---1.5000		.5906	---15.0000
1/16	.0625	---1.5875	19/32	.5938	---15.0813
	.0787	---2.0000	39/64	.6094	---15.4781
5/64	.0781	---1.9844	5/8	.6250	---15.8750
3/32	.0938	---2.3813		.6299	---16.0000
7/64	.1094	---2.7781	41/64	.6406	---16.2719
	.1181	---3.0000	21/32	.6563	---16.6688
1/8	.1250	---3.1750		.6693	---17.0000
	.1406	---3.5719	43/64	.6719	---17.0656
5/32	.1563	---3.9688	11/16	.6875	---17.4625
	.1575	---4.0000	45/64	.7031	---17.8594
11/64	.1719	---4.3656		.7087	---18.0000
3/16	.1875	---4.7625	23/32	.7188	---18.2563
	.1969	---5.0000	47/64	.7344	---18.6531
13/64	.2031	---5.1594		.7480	---19.0000
7/32	.2188	---5.5563	3/4	.7500	---19.0500
15/64	.2344	---5.9531		.7656	---19.4469
	.2362	---6.0000	49/64	.7656	---19.4469
1/4	.2500	---6.3500	25/32	.7813	---19.8438
	.2656	---6.7469		.7874	---20.0000
	.2756	---7.0000	51/64	.7969	---20.2406
9/32	.2813	---7.1438	13/16	.8125	---20.6375
19/64	.2969	---7.5406		.8268	---21.0000
5/16	.3125	---7.9375	53/64	.8281	---21.0344
	.3150	---8.0000	27/32	.8438	---21.4313
21/64	.3281	---8.3344	55/64	.8594	---21.8281
11/32	.3438	---8.7313		.8661	---22.0000
	.3543	---9.0000	7/8	.8750	---22.2250
23/64	.3594	---9.1281		.8906	---22.6219
3/8	.3750	---9.5250	57/64	.8906	---22.6219
	.3906	---9.9219		.9055	---23.0000
	.3937	---10.0000	29/32	.9063	---23.0188
13/32	.4063	---10.3188	59/64	.9219	---23.4156
27/64	.4219	---10.7156	15/16	.9375	---23.8125
	.4331	---11.0000		.9449	---24.0000
7/16	.4375	---11.1125	61/64	.9531	---24.2094
	.4531	---11.5094	31/32	.9688	---24.6063
15/32	.4688	---11.9063		.9843	---25.0000
	.4724	---12.0000	63/64	.9844	---25.0031
31/64	.4844	---12.3031	1	1.0000	---25.4000
1/2	.5000	---12.7000			

INCHES X 25.4 = MILLIMETERS  
MILLIMETERS X .03937 = INCHES  
CU. IN. X 16.38716 = C. C.  
LITRES X 61.023 = CUBIC INCHES



# Product Information

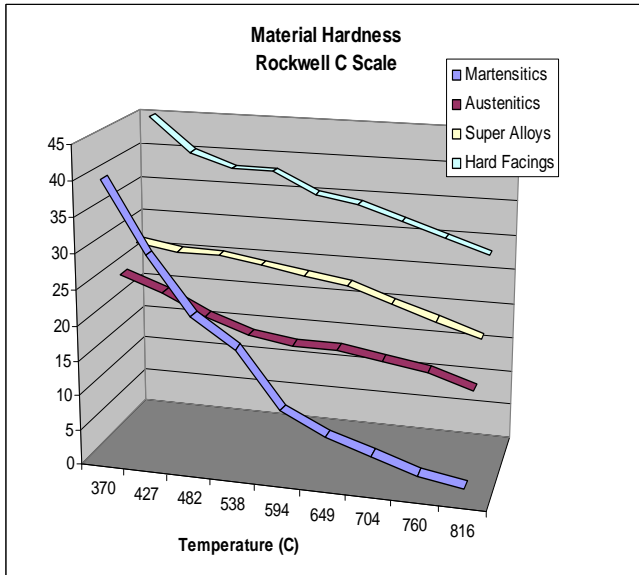
## Engine Valves

QualCast valves are designed to meet or exceed the material and dimensional specifications of the Original Equipment Manufacturer. Valves are forged from either Martensitic steel, Austenitic Steel, or a Superalloy such as Inconel. Each material has a different strength and use depending on the environment in which it operates.

Martensitic Steels are magnetic, iron-based alloys with varying percentages of chromium, carbon, and other elements, and have a very high tensile strength (resistance to breaking). Their strength is increased by tempering and quench hardening. Because intake valves operate in lower temperatures than exhaust valves, they are usually forged in one piece from a Martensitic Steel.

Austenitic Steels are non-magnetic, iron-based alloys with carbon and higher percentages of chromium, nickel, and other higher elements which give the steel greater strength in hotter operating temperatures. All stainless steel valves are forged of Austenitic steel, such as 21-2N, 21-4N, or 23-8N, etc. It is important to note, however, that these steels can not be hardened in

the same way as martensitic steels, and are actually not as hard at lower temperatures. For this reason, most light duty exhaust valves will be forged in one-piece stainless with a wafer of martensitic steel above the keeper groove, at the very tip, to keep the rocker pressure from deforming the tip of the valve. Most heavy duty exhaust valves will be 2-piece valves forged from Austenitic Steel at the head, and friction welded to the stem, made from Martensitic Steel.



Some Superalloys, such as Inconel, are nickel-based and used in exhaust valve heads instead of Austenitic Steel, where conditions require strength in extreme high temperatures.

Other Superalloys, such as Stellite, are cobalt-based and typically used only on the valve seat area of a valve because of their high cost and hot hardness. First the original seat material is removed, and then Stellite or a similar "Hard Facing" is plasma-welded onto the seat area, followed by a re-machining of the surface.

Because of the friction caused between the valve stem and valve guide when the valve opens and closes, most modern valves will have an additional surface treatment of chromium on the stem area, called "chrome plating". An alternative surface hardening treatment is nitriding, where the complete surface is sodium nitrided, followed by a re-machining of the head area.



# ALLIS-CHALMERS

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
B125 Gas, Models BR,FC,B8,B15,CA,1B,RC,60H		L4	1
G138, G160		L4	2
G149		L4	3
D153, DA153, D182, D230, DA230		L4-6	4
4G153, 6G230, 6G262		L4,6	5
D175, DA262, 6D262		L6	6
G201 G266		L4	7
G226 Gas, LPG		L4	8
4.236, 4.248 Perkins		L4	9
G2500, D2800, D2900		L6	10
D273 12V		L6	11
6000, 7000, 10000 Diesel		L4	12
HD344, HD516 Buda		L4	13
D3400, D3500, D3750		L6	14
11000		L6	15
15000H, 16000/H, 17000MK, 21000/H, 25000		L6	16

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>B125 Gas, Models BR,FC,B8,B15,CA,1B,RC,60H</b>			<b>L4 BORE - 3.375" &amp; Early 3.325"</b>
Valve	Exh		10-154	1.313 Head Dia. All w/o Rotators. OEM # 206878
	Int		10-155	1.438 Head Dia. OEM # 206877
Valve Seat Insert	Exh		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
Guide	Both		30-1854	2.250 OAL. OEM # 348241
Spring	Both		32-414	2.313 Free Length. OEM # 206879.
Keeper	Both		34-555	1 Square Groove. Heat Treated. OEM # 206880.
<b>LINE 2</b>	<b>G138, G160</b>			<b>L4 BORE - 3.346"/85.725mm</b>
Valve	Exh		10-154	1.313 Head Dia. All w/o Rotators. OEM # 206878
	Int		10-155	1.438 Head Dia. OEM # 206877
Valve Seat Insert	Exh		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth, D10 To S/N 3501, D12 To S/N 3001
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth, D10 To S/N 3501, D12 To S/N 3001.
Guide	Both		30-1854	2.250 OAL. OEM # 348241
Spring	Both		32-414	2.313 Free Length. G138-D10 To S/N 3501, D12 To S/N 3001 OEM # 206879
Keeper	Both		34-555	1 Square Groove. Heat Treated. OEM # 206880.
<b>LINE 3</b>	<b>G149</b>			<b>L4 BORE - 3.50"/88.9mm</b>
Valve	Exh		10-154	1.313 Head Dia. All w/o Rotators. OEM # 206878
	Int		10-155	1.438 Head Dia. OEM # 206877
Valve Seat Insert	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth, D10 From S/N 3501, D12 From S/N 3001, D14, D15 To S/N 9001, H3,66,72,90,10.
Guide	Both		30-1854	2.250 OAL. OEM # 348241
	Exh		30-1851	2.250 OAL. 0.313 I.D. OEM # 4504475
Keeper	Both		34-555	1 Square Groove. Heat Treated. OEM # 206880.
<b>LINE 4</b>	<b>D153, DA153, D182, D230, DA230</b>			<b>L4-6 BORE - 3.437"/87.3mm</b>
Valve Seat Insert	Exh		20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth. w/ 1.300 1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.
	Exh		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.

# ALLIS-CHALMERS

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>D153, DA153, D182, D230, DA230</b>			<b>L4-6 BORE - 3.437"/87.3mm</b>
Guide	Both		30-1703	2.563 OAL
Keeper	Both		34-614	Heat Treated. 1 Groove.
<b>LINE 5</b>	<b>4G153, 6G230, 6G262</b>			<b>L4,6 BORE - 3.50"/88.9mm</b>
Valve	Exh		10-989	1.375 Head Dia. OEM # 4512120
	Int		10-1073	1.438 Head Dia. OEM # 4512459
	Int		10-990	1.500 Head Dia. OEM # 4512121
Valve Seat Insert	Exh		20-1437-2	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh		20-1437-2N	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth. Non-Magnetic Nickel Matl..
	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth, w/ 1.460 Valve Head.
Guide	Exh		30-1944	2.125 OAL. OEM # 4513700
	Int		30-1943	2.250 OAL. OEM # 4513115
Spring	Both		32-893	2.313 Free Length. OEM # 4512172
Keeper	Both		34-555	1 Square Groove. Heat Treated. OEM # 206880.
<b>LINE 6</b>	<b>D175, DA262, 6D262</b>			<b>L6 BORE - 3.56"/90.4mm</b>
Valve	Exh		10-1041	1.250 Head Dia. OEM # 4514299
	Int		10-1042	1.480 Head Dia. OEM # 4514298
Valve Seat Insert	Exh		20-1375-1N	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth. w/ 1.250 Valve Head Dia.
	Exh		20-1437-2N	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth. w/ 1.376 Valve Head Dia. Non-Magnetic Nickel Matl.
	Int		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. w/ 1.375 Valve Head Dia.
	Int		20-1562-4	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth. w/ 1.535 Valve Head Dia
	Int		20-1562-5	1-3/8 I.D. 1-9/16 O.D. 1/4 Depth
Guide	Exh		30-1851	2.250 OAL. OEM # 4504475
	Int		30-1852	2.656 OAL. OEM # 4504476
Keeper	Both		34-614	Heat Treated. OEM # 4356080.
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 7</b>	<b>G201 G266</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve	Exh		10-168	1.500 Head Dia. All w/ Narrow Grooves. OEM # 209134
	Int		10-169	1.688 Head Dia. All w/ Narrow Grooves. OEM # 209132
	Int		10-626	1.688 Head Dia. 30 Degree. OEM # 241535
Valve Seat Insert	Exh		20-1562-4+010	1-5/16 I.D. 1.577 O.D. 1/4 Depth
	Int		20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth
Guide	Both		30-1421	2.750 OAL. Exh. To S/N 84247. OEM # U3142
	Exh		30-1853	2.344 OAL. From S/N 84247. OEM # 229911
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 209103
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 8</b>	<b>G226 Gas, LPG</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve	Exh		10-168	1.500 Head Dia. OEM # 209134
	Int		10-169	1.688 Head Dia. WD45 & W226 Only. OEM # 209132
	Int		10-626	1.688 Head Dia. 30 Degree. OEM # 241535
Valve Seat Insert	Exh		20-1562-4+010	1-5/16 I.D. 1.577 O.D. 1/4 Depth. D17, D Motor Grader From S/N 5424
	Int		20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth, D17, D Motor Grader From S/N 5424
Guide	Exh		30-1853	2.344 OAL. OEM # 229911

# ALLIS-CHALMERS

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>G226 Gas, LPG</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Guide	Int		30-1421	2.750 OAL. OEM # U3142
Spring	Both		32-414	2.313 Free Length. OEM # 206879
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 209103
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 9</b>	<b>4.236, 4.248 Perkins</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1784	1.472 Head Dia. OEM # 3142A051
	Exh		10-882	1.440 Head Dia. OEM # 257363. +15 O/S Stem May Be Avail.
	Int		10-883	1.744 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1562-6N	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats. Non Magnetic, Nickel Matl.
	Int		20-1875-19	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		22-1681-3	1-1/4 I.D. 1.681 O.D. 3/8 Depth. For Heads w/ Factory Installed Seats. OEM # 33152139
	Exh		22-1690-1	1-1/4 I.D. 1.690 O.D. 3/8 Depth. For Heads w/ Factory Installed Seats. OEM # 33152154
	Int		22-2018-1	1-19/32 I.D. 2.018 O.D. 9/32 Depth. For Heads w/ Factory Installed Seats. OEM #
Guide	Exh		30-1977	2.406 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343J002
	Int		30-1976	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
Spring	Both		32-793	1.959 Free Length. Inner 236. OEM # 31744131
	Both		32-794	2.590 Free Length. Outer 236. Both 248. OEM # 8662077
Keeper	Both		34-217P	Heat Treated. OEM # 8862107
Lifter	Both		36-7014	Mechanical. OEM # 31434163
Valve Stem Seal	Both		38-1068-70	Teflon And Rubber. Machine Guide To 0.562 O.D.
	Both		38-7117-45	Viton. Umbrella. OEM # 33817117
<b>LINE 10</b>	<b>G2500, D2800, D2900</b>			<b>L6 BORE - 3.75", 3.875"</b>
Valve	Exh		10-1523S	1.444 Head Dia. 30 Degree. OEM # 4023379
	Int		10-1524	1.620 Head Dia. OEM # 4023378
Valve Seat Insert	Exh		22-1486-1	1.270 I.D. 1.486 O.D. 0.290 Depth
	Int		22-1609-1	1.400 I.D. 1.609 O.D. 1/4 Depth
Guide	Both		30-6730	2.880 OAL. Old Style. 0.3742 I.D. One Undercut End. OEM # 4022595
	Both		30-7813	2.880 OAL. New Style. 0.3745 I.D. Both Undercut Ends. OEM # 4022595
Spring	Both		32-1165	2.760 Free Length. OEM # 4035186
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 209103
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber
<b>LINE 11</b>	<b>D273 12V</b>			<b>L6 BORE -</b>
Valve Seat Insert	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. w/ 1.375 Valve Head Dia.
	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both		30-1703	2.563 OAL
<b>LINE 12</b>	<b>6000, 7000, 10000 Diesel</b>			<b>L4 BORE - 4.4375"/112.7mm</b>
Valve Seat Insert	Exh		20-1687-8	1-3/8 I.D. 1-11/16 O.D. 5/16 Depth. Early
	Int		20-1875-11	1-9/16 I.D. 1-7/8 O.D. 5/16 Depth. Early
Guide	Both		30-5745	3.500 OAL. Late Type. Nitrocarburized. OEM # 4336586

# ALLIS-CHALMERS

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>6000, 7000, 10000 Diesel</b>			<b>L4 BORE - 4.4375"/112.7mm</b>
Spring	Both		<b>32-967</b>	3.100 Free Length. Outer. OEM # 4336129
	Both		<b>32-968</b>	2.635 Free Length. Inner. OEM # 4336130
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 209103
<b>LINE 13</b>	<b>HD344, HD516 Buda</b>			<b>L4 BORE - 4.40"/111.8mm</b>
Valve Seat Insert	Exh		<b>20-1687-7</b>	1-3/8 I.D. 1-11/16 O.D. 1/4 Depth.
	Int		<b>20-2187-13</b>	1-11/16 I.D. 2-3/16 O.D. 9/32 Depth
<b>LINE 14</b>	<b>D3400, D3500, D3750</b>			<b>L6 BORE - 4.25"/107.95mm</b>
Valve	Exh		<b>10-1525S</b>	1.651 Head Dia. OEM # 4028643
	Int		<b>10-1526</b>	1.839 Head Dia. OEM # 4037135
Valve Seat Insert	Exh		<b>22-1670-1</b>	1.420 I.D. 1.670 O.D. 0.302 Depth
	Int		<b>22-1814-1</b>	1.600 I.D. 1.814 O.D. 0.315 Depth
Guide	Both		<b>30-6730</b>	2.880 OAL. Old Style. 0.3742 I.D. One Undercut End. OEM # 4022595
	Both		<b>30-7813</b>	2.880 OAL. New Style. 0.3745 I.D. Bothe Undercut Ends. OEM # 4022595
Spring	Both		<b>32-1165</b>	2.760 Free Length. OEM # 4035186
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 209103
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber.
<b>LINE 15</b>	<b>11000</b>			<b>L6 BORE - 4.4375"/112.7mm</b>
Valve Seat Insert	Exh		<b>20-1687-8</b>	1-3/8 I.D. 1-11/16 O.D. 5/16 Depth. Early
	Int		<b>20-1875-11</b>	1-9/16 I.D. 1-7/8 O.D. 5/16 Depth. Early
Guide	Both		<b>30-5745</b>	3.500 OAL. Early Type. Nitrocarburized. OEM # 4336586
	Exh		<b>30-6759</b>	3.500 OAL. Late Type. OEM # 4359192
	Int		<b>30-6760</b>	3.500 OAL. Late Type. OEM # 4359193
<b>LINE 16</b>	<b>15000H, 16000/H, 17000MK, 21000/H, 25000</b>			<b>L6 BORE - 5.25"/133.4mm</b>
Guide	Exh		<b>30-6629</b>	3.875 OAL. Late Type. OEM # 4390548
	Exh		<b>30-6758</b>	3.900 OAL. Early Type. OEM # 4391776
	Int		<b>30-6628</b>	3.875 OAL. OEM # 4390547

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# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
F124, 209 Continental		L4,6	1
G126		L4	2
FC133 Waukesha		L4	3
G148, G148B		L4	4
G154 Gas		L4	5
GD157, 300 Continental		L4	6
G159 Gas, LPG		L4	7
G164 Gas, LPG		L4	8
G188/B Gas, LPG		L4	9
G188D Diesel and 207 C.I. (4.3L) Diesel 8V		L4	10
3.9L, 5.9L Cummins B, BT Diesel, 390 and 590 Series		L4	11
251D, A251G/S, 251B/G		L4	12
260		L4	13
A267D, A401D Diesel		L4	14
284 Gas & LPG		L4	15
301D Diesel		L4	16
301BD, 451BD Diesel, 451BDT Turbo		L6	17
A336BD Turbo Diesel, A504BD, A504BDT		L4	18
377 Gas, LPG		L6	19
377 Diesel		L6	20
JD382 Continental		L4	21
L		L4	22

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>F124, 209 Continental</b>		<b>L4,6</b>	<b>BORE - 3.00", 3.188"</b>
Valve	Exh		10-170	1.203 Head Dia. w/ Drilled Stem. OEM # F400T-296
	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. OEM # F600I-352
	Exh		10-210	1.328 Head Dia. Use w/ Rotator. 1 Groove
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. OEM # F600I-112
Valve Seat Insert	Exh		20-1375-3	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth w/ 1.203 Valve Head Dia.
	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. w/ 1.328 Valve Head Dia.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-1620	2.313 OAL. 0.6570 O.D. 0.3425 I.D.
	Exh		30-1515	2.563 OAL. w/ Roto Type-Valve. OEM # F600I235
Spring	Both		32-466	1.969 Free Length. F209 Eng. OEM # F600I232
	Both		32-495	2.063 Free Length. F124. OEM # Y-4001-215
Keeper	Both		34-159	Pin For 0.30 Drilled Stem. OEM # 12S1-207
	Both		34-614	Heat Treated. OEM # Z120I235.
	Exh		34-555	1 Groove. Heat Treated. OEM # VT3234
	Exh		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
<b>LINE 2</b>	<b>G126</b>		<b>L4</b>	<b>BORE - 3.1250"/79.3mm</b>
Valve Seat Insert	Exh		20-1375-25	1-3/32 O.D. 1-3/8 O.D. 0.203 Depth. Seat For 1.375 Cutter
	Int		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel
Guide	Exh		30-1872	2.438 OAL. OEM # A29955
	Int		30-1673	2.688 OAL. OEM # 830935M91.
Spring	Exh		32-762	2.188 Free Length. OEM # G10004
	Int		32-480	2.375 Free Length. OEM # VT3372
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # VT3234

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>FC133 Waukesha</b>			<b>L4 BORE - 3.25"/82.5mm</b>
Valve Seat Insert	Both		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both		30-1458	2.500 OAL. OEM # 68009S.
Keeper	Both		34-123	2 Groove. OEM # 05750AB
<b>LINE 4</b>	<b>G148, G148B</b>			<b>L4 BORE - 3.375/85.7mm</b>
Valve Seat Insert	Exh		20-1375-25	1-3/32 O.D. 1-3/8 O.D. 0.203 Depth. Seat For 1.375 Cutter
	Int		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel
Guide	Both		30-1673	2.688 OAL. OEM # 830935M91.
	Int		30-1872	2.438 OAL. OEM # A29955
Spring	Exh		32-762	2.188 Free Length. OEM # G10004
	Int		32-480	2.375 Free Length. OEM # VT3372
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # VT3234
<b>LINE 5</b>	<b>G154 Gas</b>			<b>L4 BORE - 3.50"/88.9mm</b>
Valve Seat Insert	Exh		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
Guide	Both		30-1577	2.750 OAL. 3-5/8 Bore From S/N 8027114. OEM # A26130
Keeper	Both		34-123	2 Groove. OEM # 05750AB
<b>LINE 6</b>	<b>GD157, 300 Continental</b>			<b>L4 BORE - 3.375"/85.7mm</b>
Valve Seat Insert	Exh		20-1312-1	1-1/16 I.D. 1-5/16 O.D. 3/16 Depth
	Int		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both		30-1833	1.813 OAL. OEM # 830762M91.
<b>LINE 7</b>	<b>G159 Gas, LPG</b>			<b>L4 BORE - 3.50"/88.9mm</b>
Valve Seat Insert	Exh		20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth.
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel For LPG.
Guide	Exh		30-1673	2.688 OAL. OEM # 830935M91
	Int		30-1872	2.438 OAL. OEM # A29955
Spring	Exh		32-762	2.188 Free Length. OEM # G10004
	Int		32-480	2.375 Free Length. OEM # VT3372
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # VT3234
<b>LINE 8</b>	<b>G164 Gas, LPG</b>			<b>L4 BORE - 3.56"/90.4mm</b>
Valve Seat Insert	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Gas.
	Int		20-1562-6	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel For LPG or Gas.
Guide	Exh		30-1673	2.688 OAL. For LPG. OEM # 830935M91.
	Exh		30-1873	2.844 OAL. OEM # G2033
	Int		30-1872	2.438 OAL. OEM # A29955
Spring	Exh		32-762	2.188 Free Length. OEM # G10004
	Int		32-480	2.375 Free Length. OEM # VT3372
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # VT3234

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# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>G188/B Gas, LPG</b>			<b>L4 BORE - 3.81"/96.8mm</b>
Valve Seat Insert	Exh		20-1500-1N	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. Non-Magnetic Nickel Matl.
	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. For Gas.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. For Gas and LPG.
Guide	Exh		30-1873	2.844 OAL. OEM # G2033
	Int		30-1874	3.125 OAL. OEM # G2069
Spring	Exh		32-762	2.188 Free Length. OEM # G10004
	Int		32-480	2.375 Free Length. OEM # VT3372
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # VT3234
<b>LINE 10</b>	<b>G188D Diesel and 207 C.I. (4.3L) Diesel 8V</b>			<b>L4 BORE - 3.81"/96.8mm</b>
Valve	Exh		10-690	1.403 Head Dia. OEM # G47111 and G11948 and A-38423
	Int		10-691	1.604 Head Dia. OEM # G47110 and G11947 and A-38422
Valve Seat Insert	Exh		20-1500-1N	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. Non-Magnetic Nickel Matl.
	Int		20-1687-1	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
	Int		20-1687-2	For G188D Diesel. 1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.600 Valve Head Dia. Hi-Perf. & Spec. Hi-Perf.
Guide	Exh		30-1874	3.125 OAL. OEM # G2069
	Int		30-1875	3.250 OAL. OEM # G2068
Spring	Exh		32-762	2.188 Free Length. OEM # G10004
	Int		32-480	2.375 Free Length. OEM # VT3372
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # VT3234
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber.
<b>LINE 11</b>	<b>3.9L, 5.9L Cummins B, BT Diesel, 390 and 590 Series</b>			<b>L4 BORE - 4.02"/102mm</b>
Valve	Exh		10-1664	1.654 Head Dia. w/ 45 Degree Seat. OEM # J920868
	Exh		10-1862	1.654 Head Dia. Natural Gas. 20 Degree Seat
	Int		10-1665	1.772 Head Dia. w/ 30 Degree Seat. OEM # J920867
Valve Seat Insert	Exh		20-1750-7	1-3/8 I.D. 1-3/4 O.D. 7/32 Depth. Universal Size For Heads w/o OEM Insert
	Int		20-1875-8	1-1/2T I.D. 1-7/8 O.D. 7/32 Depth. Universal Size For Heads w/o OEM Insert
	Exh		22-1722-1	1.357T I.D. 1.722 O.D. 0.265 Depth
	Int		22-1853-1	1.498T I.D. 1.853 O.D. 0.273 Depth
Guide	Both		30-8277	2.500 OAL. 0.4395 O.D. OEM # 3906206
	Exh		30-8178	2.052 OAL. 0.5527 O.D. OEM # J904409
	Int		30-8177	2.397 OAL. 0.5527 O.D. OEM # J904408
Spring	Both		32-00276	2.235 Free Length. 30 PSI. OEM # 3900276
	Both		32-02061	2.385 Free Length. 36 PSI. OEM # 3926700, 3932453
	Both		32-04049	
Keeper	Both		34-00250	1 Groove. OEM # 3900250
Lifter	Both		36-2302	Mechanical. OEM # 3931623, 3925031
Rotator / Retainer	Both		37-5666	Rotator. OEM # 3925666, 3957914
Valve Stem Seal	Both		38-535-45	Viton. 2-Ring. For 5/16 Stem
	Both		38-6114-55	Viton. Top Hat.
Performance Spring	Both		52-4049	
Push Rod	Both		74-6448	10.910 Length. OEM # 3923262



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# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>251D, A251G/S, 251B/G</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve Seat Insert	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. Diesel
	Exh		20-1625-2	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. Gas.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Diesel.
	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. Gas
Guide	Int		30-1829	4.375 OAL. OEM # 6321A
Spring	Both		32-763	2.641 Free Length. OEM # 09761AB.
<b>LINE 13</b>	<b>260</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Both		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Exh		30-1813	3.125 OAL. OEM # C5549A.
	Int		30-1814	3.438 OAL. Non-Flanged. OEM # A4355A
<b>LINE 14</b>	<b>A267D, A401D Diesel</b>			<b>L4 BORE - 4.125"/104.8mm</b>
Valve Seat Insert	Int		20-1812-4	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
	Exh		22-1630-1	1.335 I.D. 1.630 O.D. 0.312 Depth. +5, 10, 20, 30, 40 O/S Avail.
Guide	Ext		30-1865	3.219 OAL. OEM # A11803
	Int		30-1829	4.375 OAL. OEM # 6321A
Spring	Both		32-1158	2.200 Free Length. 401D. OEM # A66444
	Both		32-763	2.641 Free Length. 267D. OEM # 09761AB
Keeper	Both		34-221	OEM # A27872
Valve Stem Seal	Both		38-893-15	Nitrile. Umbrella.
<b>LINE 15</b>	<b>284 Gas &amp; LPG</b>			<b>L4 BORE - 4.25"/107.9mm</b>
Valve Seat Insert	Exh		20-1812-5N	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth. Non-Magnetic Nickel
	Int		20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
Guide	Both		30-1830	3.594 OAL. OEM # 6529A
<b>LINE 16</b>	<b>301D Diesel</b>			<b>L4 BORE - 4.37"/111mm</b>
Valve Seat Insert	Exh		20-1750-5	1-7/16 I.D. 1-3/4 O.D. 5/16 Depth.
	Int		20-1937-1	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Exh		30-1865	3.219 OAL. OEM # A11803
	Int		30-1829	4.375 OAL
Spring	Both		32-1158	2.200 Free Length. w/ 504. OEM # A66444.
Keeper	Both		34-221	OEM # A27872
<b>LINE 17</b>	<b>301BD, 451BD Diesel, 451BDT Turbo</b>			<b>L6 BORE - 4.37"/111mm</b>
Valve Seat Insert	Exh		20-1750-9	1-3/8 I.D. 1-3/4 O.D. 5/16 Depth.
	Int		20-1937-1	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Both		30-1830	3.594 OAL. OEM # 6529A
	Exh		30-1865	3.219 OAL. OEM # A11803
	Int		30-1829	4.375 OAL
Spring	Both		32-1158	2.234 Free Length. w/ 451. OEM # A66444.
	Both		32-763	2.591 Length, Model 1070 Only.
Keeper	Both		34-221	OEM # A27872
<b>LINE 18</b>	<b>A336BD Turbo Diesel, A504BD, A504BDT</b>			<b>L4 BORE - 4.625"/117.475mm</b>
Valve	Exh		10-1511	1.750 Head Dia. OEM # A41753
	Exh		10-1650S	2.000 Head Dia. OEM# A150225. 2-Piece w/ Stellite For Turbo.
	Int		10-1512	2.000 Head Dia. OEM # A41754

# CASE

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 18</b>	<b>A336BD Turbo Diesel, A504BD, A504BDT</b>			<b>L4 BORE - 4.625"/117.475mm</b>
Valve Seat Insert	Int		<b>20-2062-29</b>	1-13/16 I.D. 2-1/16 O.D. 7/32 Depth. w/o Factory Installed Insert
	Exh		<b>22-1946-1N</b>	1.574 I.D. 1.946 O.D. 0.315 Depth. +10,20,30 O/S Avail.
	Int		<b>22-2100-1</b>	1.782 I.D. 2.100 O.D. 0.267 Depth. +10,20,30 O/S Avail.
Guide	Both		<b>30-7444</b>	3.219 OAL. OEM # A41783
Spring	Both		<b>32-1158</b>	2.200 Free Length. w/ 504. OEM # A66444.
Keeper	Both		<b>34-221</b>	OEM # A27872
<b>LINE 19</b>	<b>377 Gas, LPG</b>			<b>L6 BORE - 4.00"/101.6mm</b>
Valve Seat Insert	Exh		<b>20-1625-2</b>	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. Gas.
	Exh		<b>20-1625-2N</b>	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. Non-Magnetic Nickel Matl.
	Int		<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both		<b>30-1830</b>	3.594 OAL. OEM # 6529A
Spring	Both		<b>32-763</b>	2.641 Free Length. OEM # 09761AB
Keeper	Both		<b>34-221</b>	OEM # A27872
<b>LINE 20</b>	<b>377 Diesel</b>			<b>L6 BORE - 4.00"/101.6mm</b>
Valve Seat Insert	Exh		<b>20-1500-3</b>	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. +3, +30 O/S
	Int		<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Exh		<b>30-1865</b>	3.219 OAL. 930, 940. OEM # A11803
	Int		<b>30-1829</b>	4.375 OAL. OEM # 6321A
Spring	Both		<b>32-763</b>	2.641 Free Length. OEM # 09761AB
Keeper	Both		<b>34-221</b>	OEM # A27872
<b>LINE 21</b>	<b>JD382 Continental</b>			<b>L4 BORE - 4.50"/114.2mm</b>
Valve Seat Insert	Exh		<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int		<b>20-1812-1</b>	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Int		<b>30-1701</b>	2.875 OAL. OEM # 760181M1
Spring	Both		<b>32-480</b>	2.375 Free Length. OEM # VT3372
Keeper	Both		<b>34-802</b>	1 Groove. Heat Treated
<b>LINE 22</b>	<b>L</b>			<b>L4 BORE - 4.625"/117.4mm</b>
Valve Seat Insert	Both		<b>20-2125-10</b>	1-3/4 I.D. 2-1/8 O.D. 9/32 Depth

ENGINE	YEAR	CYL.	LINE NO.
135 C.I. (2.2L) 3024 C/T 8V Turbo Diesel C2.2/T		L4	1
G1600 Gas & LPG Hercules 8V		L4	2
3204 N.A., 3204 Turbo, 3208 N.A., 3208 Turbo		L4,8	3
3114 8V, 3116 12V		L4,6	4
D4CD, D6B, D300, D333		L6	5
1670, D312, D330A, D330B (350 C.I.) 8V		L4	6
D315, D315G (350 C.I.) 8V		L4	7
D330C, D333C, 3304, 3306		L4,6	8
C7 (7.2L) 24V Turbo Diesel		L6	9
3126 (7.2L) 12V		L6	10
442 C.I. (7.2L) 3126B C7 18V (12 Int, 6 Exh) ACERT		L6	11
D333A, 1673 (525 C.I.) 12V		L6	12
D318, D318G (525 C.I.) 12V		L6	13
8.8L C9 24V Turbo		L6	14
C10 (10.3L), C12 (12.0L) 24V		L6	15
3176 (629 C.I.) 24V		L6	16
D334, 1674 (638 C.I.) 12V, D336, 1676 (636 C.I.) 16V		L6	17
1673C (638 C.I.) 12V		L6	18
C11 (11.1L), C13A (12.5L) 24V Turbo Diesel		L6	19
D339, D342, D364, D375, D386, D397, D8		4-12	20
C15 (14.6L), C16 (15.8L) 24V, C18 (18.1L)		L6	21
3406, 3406B, 3408, 3412		6-12	22
3406C, 3408C, 3412C		6-12	23
3406E, 3408E, 3412E, 3456		6-12	24
D343/A, D346, D348, D349, 1693		6-16	25
3508, 3512, 3516, 3508B, 3516B, 3520, 3160, G3500		V8-16	26
D353, D379, D398, G353, G379, G398, D9		L6-V12	27
D399, G399		V16	28

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>135 C.I. (2.2L) 3024 C/T 8V Turbo Diesel C2.2/T</b>			<b>L4 BORE - 3.31" / 84mm</b>
Valve	Exh		10-13327	1.299 Head Dia. Late. OEM # 1540889, 3081861
	Int		10-13326	1.457 Head Dia. Late. OEM # 1540888, 3081860
<b>LINE 2</b>	<b>G1600 Gas &amp; LPG Hercules 8V</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve	Exh		10-1881	Gas 45 Degree Seat OEM # 40-2022508
	Exh		10-1882	LPG 30 Degree Seat OEM # 40-2022516
	Int		10-1880	Gas & LPG OEM # 40-2022507
Guide	Both		30-9872	w/ 0.439 O.D. Must Be Cut For Installed Height. Spiral I.D. 30-6872 Plain I.D. Also Avail.
	Both		30-9977	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Keeper	Exh		34-510	1 Round Groove. OEM # 22531220
<b>LINE 3</b>	<b>3204 N.A., 3204 Turbo, 3208 N.A., 3208 Turbo</b>			<b>L4,8 BORE - 4.50"/114.3mm</b>
Valve	Exh		10-1378	1.804 Head Dia. OEM # 9L7683
	Exh		10-1497S	1.804 Head Dia. Turbo & H.O. OEM # 9N5125, 119-6772
	Int		10-1379	2.094 Head Dia. OEM # 9L7682, & 9L8368
Valve Seat Insert	Exh		22-1912-1	1-5/8 I.D. 1.912 O.D. 9/32 Depth. +10, 20, 30, 40 O/S Avail. OEM # 9N2837
	Int		22-2150-1	1-55/64 I.D. 2.150 O.D. 0.292 Depth +10, +20, +30, & +40 O/S Avail. OEM # 2N8943
Guide	Exh		30-7448	3.000 OAL. 0.564 O.D. Conversion Guide.

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>3204 N.A., 3204 Turbo, 3208 N.A., 3208 Turbo</b>			<b>L4,8 BORE - 4.50"/114.3mm</b>
Guide	Exh		<b>30-7682</b>	3.000 OAL. 0.502 O.D. Optional Plain I.D. OEM # 4W3779, 6I2865
	Exh		<b>30-8356</b>	3.000 OAL. 0.502 O.D. Recommended. Spiral I.D. & Turbo.
	Int		<b>30-7447</b>	2.925 OAL. 0.564 O.D. Conversion Guide.
	Int		<b>30-7681</b>	2.598 OAL. 0.502 O.D. Optional Plain I.D. OEM # 4W3778, 6I2864
	Int		<b>30-8357</b>	2.598 OAL. 0.502 O.D. Recommended. Spiral I.D. & Turbo
Spring	Both		<b>32-1239</b>	1.900 Free Length. OEM # 9N3617, 9N3387
	Both		<b>32-1240</b>	1.996 Free Length. Single Spring, Replaces All Early Des. May Need To Machine Spring Seat to 1.660 Dia.. OEM # 1W4259.
	Both		<b>32-1291</b>	Outer. OEM # 9N5496. 2.038 Free Length
	Both		<b>32-1292</b>	Inner. OEM # 9N5495. 1.920 Free Length
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Lifter	Both		<b>36-2073</b>	Mechanical. OEM # 9N5786
Valve Stem Seal	Both		<b>38-403-45</b>	Viton. Metal Clad. OEM # 7W9143
Expansion Plug Kit			<b>97-79SS</b>	Stainless Steel Kit
<b>LINE 4</b>	<b>3114 8V, 3116 12V</b>			<b>L4,6 BORE - 4.1358"/105mm</b>
Valve	Exh		<b>10-1579S</b>	1.575 Head Dia. Stellite Faced. OEM #s 105-1779, 136-0819
	Int		<b>10-1580</b>	1.850 Head Dia. OEM #s 7W-8064, 161-4280
Valve Seat Insert	Exh		<b>22-1693-8N</b>	1.458 I.D. 1.6935 O.D. 0.234 Depth. Nickel. OEM # 1W-2713
	Int		<b>22-1969-3</b>	1.704 I.D. 1.969 O.D. 0.234 Depth. OEM # 7W-8065
	Int		<b>22-1969-4N</b>	1.726 I.D. 1.969 O.D. 0.248 Depth. Nickel. OEM #s 130-9004, 163-9063
Guide	Both		<b>30-8590</b>	2.955 OAL. OEM # 9Y-8848
Spring	Both		<b>32-04008</b>	2.840 Free Length. Both w/o Eng. Brake. Int. w/ Eng. Brake. OEM # 7C4273
	Exh		<b>32-04022</b>	3.230 Free Length. w/ Eng. Brake. OEM # 6I2307
Keeper	Both		<b>34-00250</b>	1 Round Groove. OEM # 1W-2715
Valve Stem Seal	Both		<b>38-3036-45</b>	Viton. Top Hat. OEM # 1193036
Injector Component			<b>87-3061</b>	Injector Tube. OEM # 1193061
<b>LINE 5</b>	<b>D4CD, D6B, D300, D333</b>			<b>L6 BORE - 4.50"/114.3mm</b>
Valve	Int		<b>10-755</b>	1.895 Head Dia. OEM # 7M7358
Valve Seat Insert	Exh		<b>20-2000-13</b>	1-5/8 I.D. 2.000 O.D. 1/4 Depth
	Int		<b>20-2250-8</b>	1-7/8 I.D. 2-1/4 O.D. 1/4 Depth
Guide	Both		<b>30-1906N</b>	3.220 OAL. Old Style Flanged. OEM # 5S4507
	Both		<b>30-7242</b>	3.180 OAL. New Style - Nitrocarburized. OEM # 4N3668
Spring	Both		<b>32-817</b>	2.650 Free Length. OEM # 2S5627, 9H9164.
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
<b>LINE 6</b>	<b>1670, D312, D330A, D330B (350 C.I). 8V</b>			<b>L4 BORE - 4.50"/114.3mm</b>
Valve	Exh		<b>10-753S</b>	1.771 Head Dia. OEM #s 7M7360, 8N3724, & 9M4163
	Int		<b>10-755</b>	1.895 Head Dia. OEM # 7M7358
Valve Seat Insert	Exh		<b>22-1880-2</b>	1-9/16T I.D. 1.880 O.D. 7/16 Depth. +10, 20, 30 O/S Avail. OEM # 9M6495
	Int		<b>22-2006-2</b>	1-11/16T I.D. 2.0055 O.D. 7/16 Depth. Exc. Dir. Inj. & Natl. Gas. +10, 20, 30, 40 O/S Avail.
Guide	Both		<b>30-1906N</b>	3.220 OAL. Old Style Flanged. OEM # 5S4507
	Both		<b>30-7242</b>	3.180 OAL. New Style - Nitrocarburized. OEM # 4N3668
Spring	Both		<b>32-817</b>	2.650 Free Length. OEM # 9H9164

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>1670, D312, D330A, D330B (350 C.I.) 8V</b>			<b>L4 BORE - 4.50"/114.3mm</b>
Keeper	Both		34-746	2 Round Grooves. Heat Treated. OEM # 2A4429
Lifter	Both		36-2212	Mechanical. OEM # 7S3161
Rotator / Retainer	Exh		37-9461	Rotator. OEM # 3S0461
<b>LINE 7</b>	<b>D315, D315G (350 C.I.) 8V</b>			<b>L4 BORE - 4.50"/114.3mm</b>
Valve	Exh		10-319	1.840 Head Dia. OEM# 4F212
	Int		10-318	2.028 Head Dia. OEM#s 4F213, 6H3026
Valve Seat Insert	Exh		22-1912-1	D315G and D315. 1-5/8 I.D. 1.912 O.D. 9/32 Depth. +10, 20, 30, 40 O/S Avail. OEM # 9N2837
	Int		22-2150-1	D315G and D315
Guide	Both		30-1711	4.250 OAL. D315 To S/N 6U110112 & 7U28227. OEM # 4F6949
	Both		30-1888	4.250 OAL. D315 From S/N 6U110112 & 7U28227. OEM # 4H621
<b>LINE 8</b>	<b>D330C, D333C, 3304, 3306</b>			<b>L4,6 BORE - 4.75"/120.65mm</b>
Valve	Exh		10-1203	1.896 Head Dia. Indirect Injection N.A. OEM # 5S6449
	Exh		10-1205S	1.896 Head Dia. Indirect Injection Turbo OEM # 8N0875
	Exh		10-1489S	1.896 Head Dia. Direct Injection Turbo OEM # 6N9916
	Exh		10-1491S	1.896 Head Dia. 5.469 OAL. Spark Ignited. OEM # 2W2877
	Exh		10-1576	1.896 Head Dia. Direct Injection N.A. OEM # 7N0573
	Exh		10-1761S	1.896 Head Dia. 5.285 OAL. Small Margin Valve. OEM # 1007861, 1487455
	Int		10-1204	2.020 Head Dia. Indirect Injection N.A. OEM # 5S6452
	Int		10-1314S	2.020 Head Dia. 5.510 OAL. Indirect Injection Turbo. OEM # 2W2621, 9N6117
	Int		10-1490S	2.020 Head Dia. Direct Injection Turbo OEM # 2W2620
	Int		10-1577	2.020 Head Dia. Direct Injection N.A. OEM # 6N9915
	Int		10-1760S	2.020 Head Dia. 5.350 OAL. Small Margin Valve. OEM # 100-7860
Valve Seat Insert	Exh		22-2004-2	1-11/16T I.D. 2.0035 O.D. 7/16 Depth OEM Replacement w/ Std. O.D. For OEM #'s 5S7221 & 1W5321
	Exh		22-2004-3N	1.685T I.D. 2.004 O.D. 0.317 Depth Direct Injection +10, +20, +30 & +40 O/S Avail. OEM # 2W4837, 1070265
	Exh		22-2004-4N	1.688 I.D. 2.004 O.D. 0.438 Depth Natural Gas +10, +20, +30 & +40 O/S Avail. OEM# 7N1649
	Exh		22-2006-2	1-11/16T I.D. 2.0055 O.D. 7/16 Depth. Exc. Dir. Inj. & Natural Gas. +10, 20, 30, 40 O/S Avail.
	Int		22-2049-1	1-25/32T I.D. 2.0485 O.D. 11/32 Depth, +10, +20, +30 & 40 O/S Avail. OEM # 7N4448, 1070268
	Int		22-2129-1	1-13/16T I.D. 2.129 O.D. 7/16 Depth OEM Replacement w/ Std. O.D. For OEM # 5S7218
	Int		22-2131-1	1-13/16T I.D. 2.131 O.D. 7/16 Depth To S/N 76R3176. +10, +20, +30, & +40 O/S Avail.
Guide	Both		30-3037	2.780 OAL. 0.658 O.D. w/ Step For Seal. 0.3743 I.D. OEM # 1621589, 1487425
	Both		30-7194	2.781 OAL. 0.375 I.D. Nitrocarburized. +2 O/S Avail. OEM # 2P1262
	Both		30-8220	3.700 OAL. Gas Eng. Long Valve Eng. OEM # 9Y7895, 7W7489
	Both		30-8408	2.775 OAL. Natl. Gas Cut For Seal & I.D. Counterbored. OEM # 7N4310 & 4W9176N
	Both		30-8486	3.230 OAL. Heat Treated. Short Valve Eng. OEM # 3N515
	Both		30-8531	2.781 OAL. 0.3741 I.D. OEM # 1090390
	Both		30-8594	2.640 OAL. Use w/ Short Valve Eng. Improved Cooling. OEM # 7E1551

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>D330C, D333C, 3304, 3306</b>			<b>L4,6 BORE - 4.75"/120.65mm</b>
Spring	Both		<b>32-04063</b>	2.185 Free Length. OEM # 1032454
	Both		<b>32-1012</b>	2.613 Free Length. OEM # 7S6323
	Both		<b>32-948</b>	2.050 Free Length. w/ Both Long And Short Valves. OEM # 7S7144
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Lifter	Both		<b>36-2212</b>	Mechanical. OEM # 7S3161
Rotator / Retainer	Both		<b>37-7782</b>	Rotator. OEM # 1031800, 8N7782
Valve Stem Seal	Both		<b>38-7174-35</b>	Glass Filled Nylon. Umbrella. Use w/ Single Spring. OEM # 6N7174
Injector Component			<b>87-3062</b>	Water Director, Short. OEM # 1S3062
Expansion Plug Kit			<b>97-80SS</b>	3304 Stainless Steel Kit
			<b>97-81SS</b>	3306 Stainless Steel Kit
<b>LINE 9</b>	<b>C7 (7.2L) 24V Turbo Diesel</b>			<b>L6 BORE - 4.33"/110mm</b>
Valve	Exh		<b>10-2261</b>	1.417 Head Dia. OEM# 188-3122
	Int		<b>10-2260S</b>	1.417 Head Dia. OEM# 163-2442
Guide	Both		<b>30-3058</b>	3.155 OAL. 0.3745 I.D. 0.6298 O.D. OEM # 163-2444, 260-4856
Spring			<b>32-04027</b>	2.320 Free Length. OEM # 190-6115
			<b>32-04028</b>	2.341 Free Length. OEM # 190-6117
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Injector Component			<b>87-1200</b>	Injector Tube. Stainless. OEM # 2271200
			<b>87-1200K</b>	Injector Tube 87-1200 and 87-7257 (2) Ring Kit
			<b>87-7257</b>	Injector O-Ring, Both. OEM # 3107257
<b>LINE 10</b>	<b>3126 (7.2L) 12V</b>			<b>L6 BORE - 4.33"/110mm</b>
Valve	Exh		<b>10-1579S</b>	1.575 Head Dia. OEM# 105-1779, 136-0819
	Int		<b>10-1580</b>	1.850 Head Dia. OEM #s 7W-8064, 161-4280
Valve Seat Insert	Exh		<b>22-1693-8N</b>	1.458 I.D. 1.6935 O.D. 0.234 Depth. Nickel. OEM # 1W2713
	Int		<b>22-1969-3</b>	1.704 I.D. 1.969 O.D. 0.234 Depth. OEM # 7W8065
	Int		<b>22-1969-4N</b>	1.726 I.D. 1.969 O.D. 0.248 Depth. Nickel. OEM # 1309004
Guide	Both		<b>30-8590</b>	2.955 OAL. OEM # 9Y8848
Spring	Both		<b>32-04008</b>	2.840 Free Length. Both w/o Eng. Brake. Int. w/ Eng. Brake. OEM # 7C4273
	Exh		<b>32-04022</b>	3.230 Free Length. OEM # 6I2307
Keeper	Both		<b>34-00250</b>	1 Round Groove. OEM # 1W2715
Valve Stem Seal	Both		<b>38-3036-45</b>	Viton. Top Hat. OEM # 1193036
Injector Component			<b>87-3061</b>	Injector Tube. OEM # 1193061
<b>LINE 11</b>	<b>442 C.I. (7.2L) 3126B C7 18V (12 Int, 6 Exh) ACERT</b>			<b>L6 BORE - 4.33"/110mm</b>
Valve	Exh		<b>10-2160S</b>	1.693 Head Dia. 2 Groove. OEM # 147-8211
	Int		<b>10-2161S</b>	1.575 Head Dia. 1 Groove. OEM # 145-7390
Valve Seat Insert	Exh		<b>22-1814-4S</b>	1.550 I.D. 1.814 O.D. 0.240 Depth. OEM # 1478218
	Int		<b>22-1656-1</b>	1.410 I.S. 1.656 O.D. 0.258 Depth. OEM # 1559504, 2175213 (0.030 Taller, May Need To Be Machined To Correct Depth)
Guide	Exh		<b>30-3039</b>	3.350 OAL. 0.630 O.D. 0.3745 I.D. OEM # 1478220
	Int		<b>30-3038</b>	3.175 OAL. 0.513 O.D. 0.3178 I.D. OEM # 1409670
Spring	Exh		<b>32-04021</b>	3.650 Free Length. OEM # 1376718
	Int		<b>32-04020</b>	2.690 Free Length. OEM # 1406188
Keeper	Exh		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
	Int		<b>34-00250</b>	1 Round Groove. OEM# 1W2715

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>442 C.I. (7.2L) 3126B C7 18V (12 Int, 6 Exh) ACERT</b>		<b>L6</b>	<b>BORE - 4.33"/110mm</b>
Valve Stem Seal	Exh		<b>38-229-45</b>	Viton. Metal Clad. OEM # 1026229
	Int		<b>38-3036-45</b>	Viton. Top Hat. OEM # 1193036
Injector Component			<b>87-0563</b>	Injector O-Ring. For 87-2911. OEM # 8C0563
			<b>87-1200</b>	Injector Tube. Stainless. C7. OEM # 2271200
			<b>87-1200K</b>	Injector Tube 87-1200 and 87-7257 (2) Ring Kit
			<b>87-2911</b>	Injector Tube. Stainless. 3126B. OEM # 2272911.
			<b>87-2911K</b>	Injector Tube 87-2911 and 87-0563 Ring Kit
			<b>87-7257</b>	Injector O-Ring, Both. For 87-1200. OEM # 3107257
<b>LINE 12</b>	<b>D333A, 1673 (525 C.I.) 12V</b>		<b>L6</b>	<b>BORE - 4.50"/114.3mm</b>
Valve	Exh		<b>10-753S</b>	1.771 Head Dia. Stellite. OEM #s 7M7360, 8N3724, & 9M4163
	Int		<b>10-755</b>	1.895 Head Dia. OEM # 7M7358
Valve Seat Insert	Exh		<b>22-1880-2</b>	1-9/16T I.D. 1.880 O.D. 7/16 Depth. +10, 20, 30 O/S Avail. OEM # 9M6495
	Int		<b>22-2006-2</b>	1-11/16T I.D. 2.0055 O.D. 7/16 Depth. Exc. Dir. Inj. & Natural Gas. +10, 20, 30, 40 O/S Avail.
Guide	Both		<b>30-1906N</b>	3.220 OAL. Old Style Flanged. OEM # 5S4507
	Both		<b>30-7194</b>	2.781 OAL. Nitrocarburized. +2 O/S Avail. OEM # 2P1262
	Both		<b>30-7242</b>	3.180 OAL. New Style - Nitrocarburized. OEM # 4N3668
Spring	Both		<b>32-817</b>	2.650 Free Length. OEM # 2S5627, 9H9164.
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Lifter	Both		<b>36-2212</b>	Mechanical. OEM # 7S3161
Rotator / Retainer	Exh		<b>37-9461</b>	Rotator. OEM # 3S0461
<b>LINE 13</b>	<b>D318, D318G (525 C.I.) 12V</b>		<b>L6</b>	<b>BORE - 4.50"/114.3mm</b>
Valve	Exh		<b>10-319</b>	1.840 Head Dia. OEM # 4F212
	Int		<b>10-318</b>	2.028 Head Dia. OEM #s 4F213 & 6H3026
Valve Seat Insert	Exh		<b>22-1912-1</b>	1-5/8 I.D. 1.912 O.D. 9/32 Depth. +10, 20, 30, 40 O/S Avail. OEM # 9N2837
	Int		<b>22-2150-1</b>	1-55/64 I.D. 2.150 O.D. 0.292 Depth +10, +20, +30, & +40 O/S Avail. OEM # 2N8943
Guide	Both		<b>30-1711</b>	4.250 OAL. To S/N 8U5875 & 9U11705. OEM # 4F6949
	Both		<b>30-1888</b>	4.250 OAL. From S/N 8U5875 & 9U11705. OEM # 4H621
<b>LINE 14</b>	<b>8.8L C9 24V Turbo</b>		<b>L6</b>	<b>BORE - 4.41"/112mm</b>
Valve	Exh		<b>10-13193</b>	1.417 Head Dia. 0.3717 Stem. ACERT. OEM # 2418383
	Int		<b>10-13192S</b>	1.535 Head Dia. 0.315 Stem. ACERT. OEM # 2418382
	Int		<b>10-2260S</b>	1.417 Head Dia. 0.3717 Stem. OEM# 1632442
Valve Seat Insert	Exh		<b>22-1479-1S</b>	1.212T I.D. 1.479 O.D. 0.257 Depth. OEM # 2128917
	Int		<b>22-1459-1</b>	1.200 I.D. 1.459 O.D. 0.217 Depth. For 1.417 Head Dia. OEM # 2128918
	Int		<b>22-1577-1</b>	1.340T I.D. 1.577 O.D. 0.220 Depth. For 1.535 Head Dia. OEM # 2418338
Guide	Both		<b>30-3058</b>	3.155 OAL. 0.3745 I.D. 0.6298 O.D. OEM # 1632444, 2604856
	Both		<b>30-3123</b>	3.155 OAL. 0.318 I.D. For 0.315 Stem. OEM # 2418389, 2595829
Spring	Both		<b>32-04027</b>	2.320 Free Length. Inner. Exh Only ACERT. OEM # 1906115
	Both		<b>32-04028</b>	2.341 Free Length. Outer. Exh Only ACERT. OEM # 1906117
	Exh		<b>32-5005</b>	2.903 Free Length. Outer. ACERT. OEM # 2418385
	Int		<b>32-5004</b>	2.371 Free Length. Inner. ACERT. OEM # 2418386

# CATERPILLAR

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 14</b>	<b>8.8L C9 24V Turbo</b>			<b>L6 BORE - 4.41"/112mm</b>
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Valve Stem Seal	Both		<b>38-229-45</b>	Viton. Metal Clad. 0.372 Nom. Stem. OEM # 1632478
	Both		<b>38-6124-55</b>	Viton. Metal Clad. 0.315 Nom. Stem. OEM # 2418390
Injector Component			<b>87-1200</b>	Injector Tube. Stainless. OEM # 2271200
			<b>87-1200K</b>	Injector Tube 87-1200 and 87-7257 (2) Ring Kit
			<b>87-7257</b>	Injector O-Ring, Both. OEM # 3107257
<b>LINE 15</b>	<b>C10 (10.3L), C12 (12.0L) 24V</b>			<b>L6 BORE - 4.92"/125mm</b>
Valve	Exh		<b>10-1581S</b>	1.654 Head Dia. OEM # 7C-1586
	Int		<b>10-1582</b>	1.772 Head Dia. OEM # 7E-9578
	Int		<b>10-1582S</b>	1.772 Head Dia. OEM # 124-2692. Stellite For 280 - 370 HP.
Valve Seat Insert	Exh		<b>22-1711-1N</b>	1.416T I.D. 1.711 O.D. 0.378 Depth. OEM # 138-1997-179-9453
	Int		<b>22-1812-8</b>	1.530T I.D. 1.812 O.D.
Guide	Both		<b>30-8592</b>	2.785 OAL. OEM # 100-8150
Spring	Both		<b>32-07082</b>	2.420 Free Length. Inner. OEM# 7W7083, 224-4441
	Both		<b>32-07083</b>	2.420 Free Length. Outer. OEM # 7W7082, 214-0586
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-7977</b>	Rotator. OEM # 7E7977
Valve Stem Seal	Both		<b>38-0234-35</b>	GF Nylon. Umbrella. OEM # 7E7978
Injector Component			<b>87-1102</b>	Injector Tube. OEM # 1161102
<b>LINE 16</b>	<b>3176 (629 C.I.) 24V</b>			<b>L6 BORE - 4.92"/124.87mm</b>
Valve	Exh		<b>10-1581S</b>	1.654 Head Dia. Stellite Faced OEM # 7C1586
	Int		<b>10-1582</b>	1.772 Head Dia. OEM # 7E9578
Valve Seat Insert	Exh		<b>22-1711-1N</b>	1.416T I.D. 1.711 O.D. 0.378 Depth. Std Size is 0.0025 Larger Than OEM Service Part # 7W5554 & 1336997
	Int		<b>22-1812-3</b>	1.540T I.D. 1.812 O.D. 0.365 Depth. OEM Replacement w/Std O.D. For OEM # 4N5893, +10, +20, +30, & +40 O/S Avail.
Guide	Both		<b>30-8592</b>	2.785 OAL. OEM # 100-8150
	Exh		<b>30-7448</b>	3.000 OAL. Plain Conversion Guide
	Int		<b>30-7447</b>	2.625 OAL. Plain Conversion Guide
Spring	Both		<b>32-07082</b>	2.420 Free Length. Inner. OEM# 7W7083, 224-4441
	Both		<b>32-07083</b>	2.420 Free Length. Outer. OEM # 7W7082, 214-0586
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-7977</b>	Rotator. OEM # 7E7977
Valve Stem Seal	Both		<b>38-0234-35</b>	GF Nylon. Umbrella
Injector Component			<b>87-4232</b>	Injector Tube. OEM # 1054232
<b>LINE 17</b>	<b>D334, 1674 (638 C.I.) 12V, D336, 1676 (636 C.I.) 16V</b>			<b>L6 BORE - 4.50"/114.3mm</b>
Valve	Exh		<b>10-1350S</b>	1.370 Head Dia. OEM # 1S2903
	Int		<b>10-1351S</b>	1.430 Head Dia. OEM # 7S2514
Valve Seat Insert	Exh		<b>22-1442-2</b>	1-7/32 I.D. 1.442 O.D. 11/32 Depth +10, +20, & +30 O/S Avail. OEM # 1S2895
	Int		<b>22-1505-1</b>	1-1/4 I.D. 1.5045 O.D. 11/32 Depth +10, +20, & +30 O/S Avail. OEM # 1S2894
Guide	Both		<b>30-6862</b>	3.030 OAL. 0.3145 I.D. 0.5960 OD OEM# 1S2899
	Both		<b>30-6881</b>	3.031 OAL. OEM # 5S2921
Spring	Both		<b>32-1239</b>	1.900 Free Length. OEM # 9N3617, 9N3387
	Both		<b>32-1240</b>	1.996 Free Length. OEM # 1W4259.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 17</b>	<b>D334, 1674 (638 C.I.) 12V, D336, 1676 (636 C.I.) 16V</b>			<b>L6 BORE - 4.50"/114.3mm</b>
Keeper	Both		34-614	1 Square Groove. Heat Treated. OEM # 1S2898.
<b>LINE 18</b>	<b>1673C (638 C.I.) 12V</b>			<b>L6 BORE - 4.75"/120.65mm</b>
Valve	Exh		10-1205S	1.896 Head Dia. Pre-Chamber Turbo Eng. OEM # 8NO875
	Int		10-1314S	2.020 Head Dia. Pre-Chamber Turbo Eng. OEM # 2W2621 & 9N6117
Valve Seat Insert	Exh		22-2004-2	1-11/16T I.D. 2.0035 O.D. 7/16 Depth OEM Replacement w/ Std. O.D. For OEM #'s 5S7221 & 1W5321
	Exh		22-2006-2	1-11/16T I.D. 2.0055 O.D. 7/16 Depth. Exc. Dir. Inj. & Natural Gas. +10, 20, 30, 40 O/S Avail.
	Int		22-2129-1	1-13/16T I.D. 2.129 O.D. 7/16 Depth OEM Replacement w/ Std. O.D. For OEM # 5S7218
	Int		22-2131-1	1-13/16T I.D. 2.131 O.D. 7/16 Depth To S/N 76R3176. +10, +20, +30, & +40 O/S Avail.
Guide	Both		30-7194	2.781 OAL. Nitrocarburized. +2 O/S Avail. OEM # 2P1262
Spring	Both		32-948	2.050 Free Length. OEM # 7S7144
Keeper	Both		34-746	2 Round Grooves. Heat Treated. OEM # 2A4429
Lifter	Both		36-2212	Mechanical. OEM # 7S3161
Rotator / Retainer	Both		37-7782	Rotator. OEM # 1031800, 8N7782
Valve Stem Seal	Both		38-7174-35	Glass Filled Nylon. Umbrella. Use w/ Single Spring. OEM # 6N7174
<b>LINE 19</b>	<b>C11 (11.1L), C13A (12.5L) 24V Turbo Diesel</b>			<b>L6 BORE - 130mm/5.12"</b>
Valve	Exh		10-13033	1.634 Head Dia. OEM # 2481467, 2243030
	Int		10-13032	1.756 Head Dia. OEM # 2527802
	Int		10-13151	1.756 Head Dia. Inconel. OEM # 2243028
Guide	Both		30-3058	3.155 OAL. 0.3745 I.D. 0.6298 O.D. OEM # 1632444, 2604856
Spring	Both		32-07082	2.550 Free Length. Inner. OEM # 2244441
	Both		32-07083	2.525 Free Length. Outer. OEM # 2140586
Keeper	Both		34-746	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		37-7977	Rotator. OEM # 7E7977
Valve Stem Seal	Both		38-0234-35	Glass Filled Nylon. Umbrella. OEM # 7E7978
	Both		38-229-45	Viton. Metal Clad. OEM # 1632478
Injector Component			87-2903	Injector O-Ring, Large, Top. OEM # 1662903
			87-2904	Injector O-Ring, Middle. OEM # 1662904
			87-4239	Injector Tube. OEM # 2274239
			87-7430	Injector O-Ring, Small, Bottom. OEM# 9X7430
<b>LINE 20</b>	<b>D339, D342, D364, D375, D386, D397, D8</b>			<b>4-12 BORE - 5.75"/146.05mm</b>
Valve	Exh		10-1458S	2.282 Head Dia. 0.3717 Stem Dia. 2 Groove. Stellite. OEM # 1W1819
	Exh		10-574S	2.282 Head Dia. 0.4955 Stem Dia. Tapered Groove. Stellite. OEM # 8H1994
	Int		10-1459S	2.343 Head Dia. 0.3717 Stem Dia. 2 Groove. Stellite. OEM # 1W1818
	Int		10-852S	2.343 Head Dia. 0.4955 Stem Dia. Tapered Groove. Stellite. OEM # 8H1993
Valve Seat Insert	Exh		22-2503-1	2.000 I.D. 2.503 O.D. 1/2 Depth. OEM Replacement For 8M9810
	Exh		22-2506-1	2.000 I.D. 2.506 O.D. 1/2 Depth. OEM # 8M9810 +10, +20 & +30 O/S Avail.
	Int		22-2503-2	2-1/16T I.D. 2.503 O.D. 1/2 Depth. OEM Replacement For 9M8745
	Int		22-2506-2	2-1/16T I.D. 2.506 O.D. 1/2 Depth. OEM # 8M8745. +10, +20 & +30 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>D339, D342, D364, D375, D386, D397, D8</b>			<b>4-12 BORE - 5.75"/146.05mm</b>
Guide	Both		<b>30-3N1414</b>	Spacer for Non-flanged Guides. 0.500 OAL. 0.785 I.D. 1.265 O.D. OEM# 3N1414
	Both		<b>30-7338</b>	5.219 OAL. Non-Flanged Tufftrided & Counterbored w/ 0.4955 Valve Stem Dia. OEM # 7N2051
	Both		<b>30-7604</b>	5.250 OAL. Non-Flanged w/ 0.3717 Valve Stem Dia. OEM # 1W1816
	Exh		<b>30-6469</b>	5.250 OAL. Flanged w/o Valve Rotator w/ 0.4955 Valve Stem Dia. OEM # 1S6654
	Int		<b>30-6470</b>	5.250 OAL. Flanged w/o Valve Rotator w/ 0.4955 Valve Stem Dia. OEM # 2S0893
Spring	Both		<b>32-944</b>	2.179 Free Length. Inner. OEM # 9M5349
	Both		<b>32-945</b>	2.574 Free Length. Outer. OEM # 9M5350
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
	Both		<b>34-816</b>	Tapered Groove. 3 Required. OEM # 3B1143
Rotator / Retainer	Exh		<b>37-7639</b>	Rotator. OEM # 4S7468, 7N7639.
<b>LINE 21</b>	<b>C15 (14.6L), C16 (15.8L) 24V, C18 (18.1L)</b>			<b>L6 BORE - 5.40"/137.0mm</b>
Valve	Exh		<b>10-1912</b>	1.646 Head Dia. OEM# 153-7024. Must Replace Rocker Bridge w/ New Valves.
	Int		<b>10-1911</b>	1.850 Head Dia. OEM# 153-7023. Must Replace Rocker Bridge w/ New Valves.
Valve Seat Insert	Exh		<b>22-1687-1N</b>	1-7/16T I.D. 1.687 O.D. 0.365 Depth. OEM 1-7/16T I.D. 1.687 O.D. OEM # 1527582. O/S Use 22-1693-1N
	Exh		<b>22-1693-1N</b>	1-7/16T I.D. 1.693 O.D. 0.365 Depth +5,+10, +20,+30,+40 O/S Avail.
	Int		<b>22-1891-1</b>	1.615T I.D. 1.891 O.D. 0.306 Depth. OEM # 1564168, 1753617, 1085912
Guide	Both		<b>30-3007</b>	3.358 OAL. OEM # 1227375. +2 O/S Avail.
Spring	Both		<b>32-04000</b>	3.205 Free Length. Outer. OEM # 211-3123
	Both		<b>32-04001</b>	2.980 Free Length. Inner. OEM # 211-3122
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-2001</b>	Rotator. OEM # 186-2001
Valve Stem Seal	Both		<b>38-229-45</b>	Viton. Metal Clad. OEM # 1026229, 1632478
Injector Component			<b>87-2903</b>	Injector O-Ring, Large, Top. OEM # 1662903
			<b>87-2904</b>	Injector O-Ring, Middle. OEM # 1662904
			<b>87-4239</b>	Injector Tube. OEM # 2274239
			<b>87-7430</b>	Injector O-Ring, Small, Bottom. OEM# 9X7430
<b>LINE 22</b>	<b>3406, 3406B, 3408, 3412</b>			<b>6-12 BORE - 5.40"/137.2mm</b>
Valve	Exh		<b>10-1468S</b>	1.646 Head Dia. 7.140 OAL. Stellite. OEM # 7N4580, 1W3860, 1152367
	Exh		<b>10-1632S</b>	1.640 Head Dia. 7.140 OAL. Stellite. Spark Ignited OEM # 1018314
	Exh		<b>10-2258S</b>	1.646 Head Dia. 7.621 OAL. For Natl. Gas. Inconel, Stellite. Spark Ignited. OEM# 212-0933
	Int		<b>10-1462S</b>	1.771 Head Dia. Stellite. OEM # 4W5374, 2W2622, 1152368
	Int		<b>10-1857S</b>	1.771 Head Dia. Spark Ignited. Late Style. Replaces 10-1633S. OEM # 1227353
	Int		<b>10-2259S</b>	1.771 Head Dia. 7.621 OAL. For Natl. Gas. Inconel, Stellite. Spark Ignited. OEM# 212-0932
Valve Seat Insert	Exh		<b>22-1687-1N</b>	1-7/16T I.D. 1.687 O.D. 0.365 Depth. OEM Replacement w/ Std. O.D. For OEM #'s 9S9699, 1W5283. O/S Use 22-1693-1N
	Exh		<b>22-1687-3N</b>	1.400 I.D. 1.687 O.D. 0.365 Depth. Natl. Gas OEM # 4W4325
	Exh		<b>22-1687-4N</b>	1.410 I.D. 1.6875 O.D. 0.365 Depth. Natl. Gas. Use w/ 10-1632S. OEM # 6I4014 +10,20,30 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 22</b>	<b>3406, 3406B, 3408, 3412</b>			<b>6-12 BORE - 5.40"/137.2mm</b>	
Valve Seat Insert	Exh		<b>22-1687-5S</b>	1.318T I.D. 1.687 O.D. 0.315 Depth. Spark Ignited. +10, +20 O/S Avail. OEM # 2120936	
	Exh		<b>22-1693-1N</b>	1-7/16T I.D. 1.693 O.D. 0.365 Depth +5,+10, +20,+30,+40 O/S Avail.	
	Int		<b>22-1812-3</b>	1.540T I.D. 1.812 O.D. 0.365 Depth, OEM Replacement w/ Std. O.D. For OEM # 4N5893. O/S Use 22-1817-3	
	Int		<b>22-1812-6N</b>	1.540 I.D. 1.8125 O.D. 0.365 Depth. Natl. Gas.	
	Int		<b>22-1812-7</b>	1.540 I.D. 1.812 O.D. 0.365 Depth Late Style w/ Swirl Plate. OEM # 1152358 +5,10,20,30 O/S Avail.	
	Int		<b>22-1813-1</b>	1.540 I.D. 1.813 O.D. 0.315 Depth. Spark Ignited. +10,20 O/S Avail. OEM # 2143286	
	Int		<b>22-1817-3</b>	1.540T I.D. 1.812 O.D. 0.365 Depth. +10,+20, +30,+40 O/S Avail.	
	Guide	Both		<b>30-3014</b>	3.050 OAL. Use w/ Dual Spring, 38-229-45 Seal. OEM # 122-7374
Both			<b>30-7216</b>	3.250 OAL. Nitrocarburized - Recommended. OEM # 4N2803	
Both			<b>30-7736</b>	3.250 OAL. Same As 30-7216 w/ 0.001 Smaller I.D.	
Both			<b>30-8319</b>	3.250 OAL. Natl. Gas. CounterBored. OEM # 7W1636	
Both			<b>30-8485</b>	3.250 OAL. Natl Gas. Heat Treated. Counterbored Both Ends. OEM # 1511329	
Exh			<b>30-3052</b>	4.130 OAL Taller for Natl. Gas. OEM # 2137537	
Int			<b>30-3051</b>	3.730 OAL Taller for Natl. Gas. OEM # 2137536	
Spring		Both		<b>32-1173</b>	A Model. 2.500 Free Length. Single. OEM # 4N5906
		Both		<b>32-1293</b>	B Model. Outer. 2.341 Free Length Dual. OEM # 4W2471.
		Both		<b>32-1294</b>	B Model. Inner. 2.678 Free Length. Dual. OEM # 4W2472
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429	
Lifter	Both		<b>36-7083</b>	Hydraulic Roller. OEM # 1017788, 4N6233.	
Rotator / Retainer	Both		<b>37-2474</b>	Rotator. w/ Dual Spring. OEM # 4W2474	
	Both		<b>37-7175</b>	Rotator. Sold With Oil Shield. Use w/ Single Spring. OEM # 6N7175, 6N7154	
Valve Stem Seal			<b>38-3044-45</b>	OEM # 2146051, 2503044	
	Both		<b>38-229-45</b>	Viton. Metal Clad. Use w/ Dual Spring, 30-3014 Guide. OEM# 102-6229 3406B	
	Both		<b>38-7174-35</b>	Glass Filled Nylon. Umbrella. Use w/ Single Spring. OEM # 6N7174	
Expansion Plug Kit			<b>97-82SS</b>	3406, 3408 Stainless Steel Kit	

<b>LINE 23</b>	<b>3406C, 3408C, 3412C</b>			<b>6-12 BORE - 5.40"/137.16mm</b>
Valve	Exh		<b>10-1831S</b>	1.646 Head Dia. w/ Hyd. Electronic Injection Stellite. OEM # 122-0321
	Int		<b>10-1830S</b>	1.771 Head Dia. w/ Hyd. Electronic Injection Stellite. OEM # 122-0322
Guide	Both		<b>30-3014</b>	3.050 OAL. OEM # 122-7374
Spring	Both		<b>32-1173</b>	2.500 Free Length. Single Spring OEM # 4N5906
	Both		<b>32-1293</b>	2.341 Free Length. Dual Spring. Outer. OEM # 4W2471
	Both		<b>32-1294</b>	2.678 Free Length. Dual Spring. Inner. OEM # 4W2472
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-2474</b>	Rotator. w/ Dual Spring. OEM # 4W2474
	Both		<b>37-7175</b>	Rotator. Sold With Oil Shield. Use w/ Single Spring. OEM # 6N7175, 6N7154
Valve Stem Seal	Both		<b>38-229-45</b>	Viton. Metal Clad
	Both		<b>38-7174-35</b>	Glass Filled Nylon. Umbrella. Use w/ Single Spring. OEM # 6N7174

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 24</b>	<b>3406E, 3408E, 3412E, 3456</b>			<b>6-12 BORE - 5.40"/137.16mm</b>
Valve	Exh		<b>10-1912</b>	1.646 Head Dia. 2 Groove, Replaces Earlier 1 Groove. OEM # 1085911, 1537024, 1527585. Must Replace Rocker Bridge w/ New Valves
	Int		<b>10-1911</b>	1.850 Head Dia. 2 Groove, Replaces Earlier 1 Groove. OEM # 1085910, 1537023, 1528380. Must Replace Rocker Bridge w/ New Valves
Valve Seat Insert	Exh		<b>22-1687-1N</b>	1-7/16T I.D. 1.687 O.D. 0.365 Depth. OEM Replacement w/ Std. O.D. For OEM #'s 9S9699, 1W5283. O/S Use 22-1693-1N
	Exh		<b>22-1693-1N</b>	1-7/16T I.D. 1.693 O.D. 0.365 Depth +5,+10, +20,+30,+40 O/S Avail
	Int		<b>22-1891-1</b>	1.615T I.D. 1.891 O.D. 0.306 Depth. OEM # 1564168, 1753617, 1085912
Guide	Both		<b>30-3007</b>	3.358 OAL. OEM # 1227375. +2 O/S Avail.
Spring	Both		<b>32-04000</b>	3.285 Length. Outer. OE# 211-3123
	Both		<b>32-04001</b>	2.980 Free Length. Inner. OEM # 2113122
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-2001</b>	Rotator. OEM # 186-2001
Valve Stem Seal	Both		<b>38-229-45</b>	Viton. Metal Clad. OEM # 1026229, 1632478
Injector Component			<b>87-2903</b>	Injector O-Ring, Large, Top. OEM # 1662903
			<b>87-2904</b>	Injector O-Ring, Middle. OEM # 1662904
			<b>87-4239</b>	Injector Tube. OEM # 2274239
			<b>87-7430</b>	Injector O-Ring, Small, Bottom. OEM# 9X7430

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 25</b>	<b>D343/A, D346, D348, D349, 1693</b>			<b>6-16 BORE - 5.40"/137.16mm</b>
Valve	Exh		<b>10-1145S</b>	1.646 Head Dia. Stellite. OEM # 7E7830
	Int		<b>10-1146S</b>	1.771 Head Dia. Stellite. OEM # 1N4885, 4N9623
Valve Seat Insert	Exh		<b>22-1687-1N</b>	1-7/16T I.D. 1.687 O.D. 0.365 Depth. OEM Replacement w/ Std. O.D. For OEM #'s 9S9699 & 1W5283. O/S Use 22-1693-1N
	Exh		<b>22-1687-2</b>	1-7/16T I.D. 1.687 O.D. 3/8 Depth, OEM Std. O.D. w/ +10 Larger Depth
	Exh		<b>22-1693-1N</b>	1-7/16T I.D. 1.693 O.D. 0.365 Depth. +5,+10, +20,+30,+40 O/S Avail.
	Exh		<b>22-1693-2</b>	1-7/16T I.D. 1.693 O.D. 3/8 Depth. +10, +20 & +30 O/S Avail. w/ +10 Larger Depth
	Int		<b>22-1812-1</b>	1-9/16T I.D. 1.812 O.D. 0.365 Depth, OEM Replacement w/ Std. O.D. For OEM # 9M3205 O/S Use 22-1818-1
	Int		<b>22-1812-2</b>	1-9/16T I.D. 1.812 O.D. 3/8 Depth, OEM Replacement w/ +10 Larger Depth O/S Use 22-1818-2
	Int		<b>22-1818-1</b>	1-9/16T I.D. 1.818 O.D. 0.365 Depth, +10, +20 & +30 O/S Avail.
	Int		<b>22-1818-2</b>	1-9/16T I.D. 1.818 O.D. 3/8 Depth, +10, +20 & +30 O/S Avail., w/ +10 Larger Depth
Guide	Both		<b>30-7255</b>	2.815 OAL. Nitrocarburized. OEM # 6N2236
Spring	Both		<b>32-1241</b>	D346, D348, D349. OEM # 3S3018. 1.960 Free Length
	Both		<b>32-950</b>	D343, D343A, 1693. OEM # 2S4213. 2.310 Free Length
Keeper	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-6761</b>	Rotator. OEM # 4N6761
Expansion Plug Kit			<b>97-78SS</b>	Stainless Steel Kit

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 26</b>	<b>3508, 3512, 3516, 3508B, 3516B, 3520, 3160, G3500</b>			<b>V8-16 BORE - 6.70"/170.18mm</b>
Valve	Both		<b>10-1498S</b>	2.205 Head Dia. 0.3717 Stem. 30 Degree. Stellite. OEM #'s 7E4609 & 7C6217
	Both		<b>10-1584S</b>	2.205 Head Dia. 0.3717 Stem. 20 Degree. Stellite. Spark Ignited. OEM # 104-7184
	Both		<b>10-3228S</b>	2.205 Head Dia. Stellite. For G3500, Natl. Gas. OEM # 3074641

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 26</b>	<b>3508, 3512, 3516, 3508B, 3516B, 3520, 3160, G3500</b>			<b>V8-16 BORE - 6.70"/170.18mm</b>
Valve	Exh		<b>10-1805S</b>	2.205 Head Dia. 45 Degree. 0.372T Stem. OEM # 121-9835, 210-2529
	Exh		<b>10-2168S</b>	2.205 Head Dia. 45 Degree. 0.495 Stem. OEM# 1944897
	Int		<b>10-1804</b>	2.205 Head Dia. 0.3717 Stem. 20 Degree. OEM # 121-1028, 210-2542
Valve Seat Insert	Both		<b>22-2368-2N</b>	1.890 I.D. 2.368 O.D. 0.460 Depth. Natural Gas. OEM 7W0028, 6I1713, 1916760
	Both		<b>22-2388-1N</b>	1.890 I.D. 2.388 O.D. 0.460 Depth. OEM # 2064442
	Exh		<b>22-2366-2N</b>	1.977 I.D. 2.3665 O.D. 0.392 Depth OEM # 130-2608
	Exh		<b>22-2367-1</b>	2.045 I.D. 2.367 O.D. 0.382 Depth. Exc. Natural Gas
	Int		<b>22-2368-3N</b>	1.870 I.D. 2.368 O.D. 0.460 Depth. Natural Gas Late Style w/ Swirl Plate. OEM # 1225963
	Int		<b>22-2387-1</b>	1.970 I.D. 2.387 O.D. 0.382 Depth. Exc. Natural Gas.
	Int		<b>22-2387-2</b>	1.890 I.D. 2.3875 O.D. 0.361 Depth. OEM # 130-2607
Guide	Both		<b>30-7632</b>	4.060 OAL. 0.689 O.D. 0.3745 I.D.
	Both		<b>30-8118</b>	4.060 OAL. 0.689 O.D. 0.3745 I.D. w/ Chamfer Both Ends. Natl. Gas. OEM # 9Y1847
	Both		<b>30-8679</b>	4.060 OAL. 0.3735 I.D. Use w/ 3/8 Stem. Late Style w/ Step for Stem Seal. OEM #s 7N1819, 133-9306
	Exh		<b>30-3035</b>	4.050 OAL. 0.6885 O.D. w/ Step For Seal. 0.3715 I.D. w/ Oil Baffle. OEM # 1845494
	Exh		<b>30-3042</b>	4.055 OAL. 0.4977 I.D. Use w/ 0.495 Stem. OEM # 1976995
	Exh		<b>30-3140</b>	3.620 OAL. 0.689 O.D. 0.373 I.D. OEM # 2061541
	Exh		<b>30-8383</b>	3.600 OAL (Short Version). 0.689 O.D. 0.3745 I.D. w/ Chamfer Both Ends. Natl. Gas. OEM # 9Y1846
	Int		<b>30-3036</b>	4.050 OAL. 0.6885 O.D. w/ Step for Seal. 0.3715 I.D. w/ Oil Baffle.
	Int		<b>30-3139</b>	4.055 OAL. 0.689 O.D. 0.373 I.D. OEM # 1916766
Spring	Both		<b>32-04901</b>	3.030 Free Length. Outer. OEM # 1944901
	Both		<b>32-04902</b>	2.466 Free Length. Inner OEM # 1944902
	Both		<b>32-2470</b>	2.075 Free Length. Inner. OEM # 7N-1903
	Both		<b>32-2471</b>	2.500 Free Length. Outer. OEM # 7N-1904
Keeper	Both		<b>34-5019</b>	1 Square Groove. OEM # 1977055
	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
Rotator / Retainer	Both		<b>37-6999</b>	Rotator. OEM # 1976999
	Both		<b>37-7062</b>	Rotator. 0.372 Stem. OEM # 1977062
	Exh		<b>37-7063</b>	Rotator. 0.495 Stem. OEM # 1977063
Valve Stem Seal	Both		<b>38-856-45</b>	Top Hat. Viton. Use w/ 30-8679. OEM # 137-6856

<b>LINE 27</b>	<b>D353, D379, D398, G353, G379, G398, D9</b>			<b>L6-V1 BORE - 6.25"/158.75mm</b>
Valve	Exh		<b>10-1460S</b>	2.350 Head Dia. OEM # 1W1822. Late Style 2 Groove
	Exh		<b>10-1476S</b>	2.350 Head Dia. Stellite. OEM# 2W-3211
	Exh		<b>10-751S</b>	2.350 Head Dia. 0.4955 Stem Dia. OEM # 8N3723 Tapered Groove
	Int		<b>10-1461S</b>	2.350 Head Dia. 0.3717 Stem Dia. OEM # 1W1822. Late Style 2 Groove
	Int		<b>10-752S</b>	2.505 Head Dia. 0.4955 Stem Dia. OEM # 7M7817 Tapered Groove
Valve Seat Insert	Exh		<b>22-2435-1</b>	2-1/8T I.D. 2.435 O.D. 5/8 Depth, Exc. Natural Gas, +10, +20, +30 & +40 O/S Avail., OEM # 8M4014
	Exh		<b>22-2435-2N</b>	2-1/8 I.D. 2.435 O.D. 0.625 Depth, Natural Gas EM # 1S5738
	Int		<b>22-2590-1</b>	2-9/32T I.D. 2.590 O.D. 5/8 Depth, +10, +20, +30 & +40 O/S Avail., OEM # 5S1757

# CATERPILLAR

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 27</b>	<b>D353, D379, D398, G353, G379, G398, D9</b>		<b>L6-V1</b>	<b>BORE - 6.25"/158.75mm</b>
<b>Guide</b>	Both		<b>30-3N1414</b>	Spacer for non-flanged guides. 0.500 OAL. 0.785 I.D. 1.265 O.D. OEM# 3N1414
	Exh		<b>30-7073H</b>	5.450 OAL. w/ 0.3717 Stem Dia. OEM # 2N9299. Hardened
	Exh		<b>30-7357</b>	5.438 OAL. Nitrocarburized Counterbored w/ 0.4955 Stem Dia. OEM # 6N8847
	Int		<b>30-7074H</b>	5.065 OAL. w/ 0.3717 Stem Dia. OEM # 2N9298. Hardened
	Int		<b>30-7083</b>	5.045 OAL. Non-Flanged. Nitrocarburized. w/ 0.4955 Stem Dia. OEM # 4N3664
<b>Spring</b>	Both		<b>32-1012</b>	2.613 Free Length. OEM # 7S6323
	Both		<b>32-944</b>	2.179 Free Length. Inner. OEM # 9M5349
	Both		<b>32-945</b>	2.574 Free Length. Outer. OEM # 9M5350
<b>Keeper</b>	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
	Both		<b>34-816</b>	Tapered Groove. 3 Required. OEM # 3B1143
<b>Lifter</b>	Both		<b>36-7013</b>	Mechanical. OEM # 2H3069
<b>Rotator / Retainer</b>	Exh		<b>37-7639</b>	Rotator. OEM # 4S7468, 7N7639.
<b>LINE 28</b>	<b>D399, G399</b>		<b>V16</b>	<b>BORE - 6.25"/158.75mm</b>
<b>Valve</b>	Exh		<b>10-1460S</b>	2.350 Head Dia. 0.3717 Stem Dia. OEM # 1W1822. Late Style 2 Groove
	Exh		<b>10-1476S</b>	2.350 Head Dia. 0.3717 Stem Dia. 2 Groove. OEM # 2W3211
	Exh		<b>10-751S</b>	2.350 Head Dia. 0.4955 Stem Dia. OEM # 8N3723 Tapered Groove
	Int		<b>10-1461S</b>	2.350 Head Dia. 0.3717 Stem Dia. OEM # 1W1822. Late Style 2 Groove
	Int		<b>10-752S</b>	2.505 Head Dia. 0.4955 Stem Dia. OEM # 7M7817 Tapered Groove
<b>Valve Seat Insert</b>	Exh		<b>22-2435-1</b>	2-1/8T I.D. 2.435 O.D. 5/8 Depth, Exc. Natural Gas, +10, +20, +30 & +40 O/S Avail., OEM # 8M4014
	Exh		<b>22-2435-2N</b>	2-1/8 I.D. 2.435 O.D. 5/8 Depth, Natural Gas OEM # 1S5738
	Int		<b>22-2590-1</b>	2-9/32T I.D. 2.590 O.D. 5/8 Depth, +10, +20, +30 & +40 O/S Avail., OEM # 5SI757
<b>Guide</b>	Both		<b>30-3N1414</b>	Spacer for non-flanged guides. 0.500 OAL. 0.785 I.D. 1.265 O.D. OEM# 3N1414
	Both		<b>30-7357</b>	5.438 OAL. Non-Flanged Tufftrided Counterbored w/ 0.4955 Stem Dia. OEM # 6N8847
	Exh		<b>30-7073H</b>	5.450 OAL. w/ 0.372 Valve Stem Dia. OEM # 2N9299. Hardened
	Int		<b>30-7074H</b>	5.065 OAL. w/ 0.372 Valve Stem Dia. OEM # 2N9298. Hardened
	Int		<b>30-7083</b>	5.045 OAL. Non-Flanged Tufftrided w/ 0.4955 Stem Dia.
	Int		<b>30-7551</b>	5.450 OAL. w/ 0.002 Smaller I.D. & 0.375 Stem Dia.
<b>Spring</b>	Both		<b>32-1012</b>	2.613 Free Length. OEM # 7S6323
	Both		<b>32-944</b>	2.179 Free Length. Inner. OEM # 9M5349
	Both		<b>32-945</b>	2.574 Free Length. Outer. OEM # 9M5350
<b>Keeper</b>	Both		<b>34-746</b>	2 Round Grooves. Heat Treated. OEM # 2A4429
	Both		<b>34-816</b>	Tapered Groove. 3 Required. OEM # 3B1143
<b>Rotator / Retainer</b>			<b>37-7639</b>	Rotator. OEM # 4S7468, 7N7639.

# CHRYSLER

# INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
170, 198		L6	1
H170, H225, IND170, IND225 Chrysler		L6	2
201 C.I. (3.3L)		L6	3
IND30, 31, 5, 5A, 6, 6A, T112, 116, 218 C.I., 230		L6	4
IND16, 16A, 32, 33, 7, 7A, 8, 8A 237		L6	5
IND18, 18A, 19, 19A, 20, 54 241		V8	6
IND52 270		V8	7
H318, HA318, HB318, HC318, HT318, LH318, LT318		V8	8
IND-24/A, IND56/A		V8	9
361 C.I. (5.9L) LPG	1960-77	V8	10
HB361, HC361, HT361, HB413, HC413		V8	11
H361, H383, HA383, HB383, H413		V8	12
H400, H440		V8	13

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>170, 198</b>			<b>L6 BORE - 3.40"/86.4mm</b>

Valve Seat Insert	Exh		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. Also Avail. In Nickel (N Suffix)
	Int		20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth. Also Avail. In Nickel (N Suffix)
Spring	Int		32-672	2.000 Free Length
Keeper	Exh		34-766	4 Groove. Heat Treated
	Int		34-746	2 Round Grooves. OEM # 381875.

<b>LINE 2</b>	<b>H170, H225, IND170, IND225 Chrysler</b>			<b>L6 BORE - 3.40"/86.4mm</b>
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Valve	Exh		10-1265	1.360 Head Dia. 4 Groove. +3 & +5 & +15 O/S Stem Avail.
	Int		10-567	1.620 Head Dia. 2 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Int		32-672	1.394/1.414 O.D. 2.000 Free Length. OEM # 1739534
Keeper	Exh		34-766	4 Groove. Heat Treated. OEM # 1614666
	Int		34-746	2 Round Grooves. OEM # 381875.
Lifter	Both		36-2084	Mechanical High Performance
	Both		36-2089	Hydraulic
Valve Stem Seal	Exh		38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int		38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
Rocker Component			40-2844	Rocker Arm. Stamped

<b>LINE 3</b>	<b>201 C.I. (3.3L)</b>			<b>L6 BORE - 3.25"/82.5mm</b>
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Valve Seat Insert	Exh		20-1562-4+010	1-5/16 I.D. 1.577 O.D. 1/4 Depth
	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
Guide	Exh		30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Int		30-1338	2.813 OAL
Keeper	Both		34-743	2 Round Grooves. OEM # 395931

<b>LINE 4</b>	<b>IND30, 31, 5, 5A, 6, 6A, T112, 116, 218 C.I., 230</b>			<b>L6 BORE - 3.25"/82.5mm</b>
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Valve	Exh		10-185	1.407 Head Dia.
	Int		10-349	1.531 Head Dia.
Valve Seat Insert	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh		22-1516-1	1-1/4 I.D. 1.516 O.D. 1/4 Depth

# CHRYSLER

# INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>IND30, 31, 5, 5A, 6, 6A, T112, 116, 218 C.I., 230</b>			<b>L6 BORE - 3.25"/82.5mm</b>
Guide	Exh		30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Int		30-1338	2.813 OAL
Spring	Both		32-415	2.016 Free Length.
Keeper	Both		34-743	2 Round Grooves. OEM # 395931
<b>LINE 5</b>	<b>IND16, 16A, 32, 33, 7, 7A, 8, 8A 237</b>			<b>L6 BORE - 3.40"/87.3mm</b>
Valve	Exh		10-257	1.501 Head Dia. 2 Groove
	Int		10-298	1.718 Head Dia. 2 Groove
Valve Seat Insert	Exh		20-1625-2	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. +10 O/S Avail.
	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Exh		30-1337	2.813 OAL. 0.3445 I.D. 0.6575 O.D.
	Exh		30-1609	2.188 OAL. w/ Sodium Cooled Valves.
	Int		30-1338	2.813 OAL
Spring	Both		32-415	2.016 Free Length.
Keeper	Both		34-743	2 Round Grooves. OEM # 395931
<b>LINE 6</b>	<b>IND18, 18A, 19, 19A, 20, 54 241</b>			<b>V8 BORE - 3.437"/87.3mm</b>
Valve Seat Insert	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		20-1812-1	1-9/16 I.D. 1-13/16 O.D. 1/4 Depth. +20 O/S Avail.
	Exh		22-1516-1	1-1/4 I.D. 1.516 O.D. 1/4 Depth
Spring	Both		32-415	2.016 Free Length.
Keeper	Both		34-743	2 Round Grooves. OEM # 395931
<b>LINE 7</b>	<b>IND52 270</b>			<b>V8 BORE - 3.62"/92mm</b>
Valve Seat Insert	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Exh		22-1516-1	1-1/4 I.D. 1.516 O.D. 1/4 Depth
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		30-9113	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Int		32-672	2.000 Free Length. OEM # 1739534
Keeper	Exh		34-766	4 Groove. Heat Treated. OEM # 1614666
	Int		34-746	2 Round Grooves. OEM # 381875.
<b>LINE 8</b>	<b>H318, HA318, HB318, HC318, HT318, LH318, LT318</b>			<b>V8 BORE - 3.91"/99.3mm</b>
Valve	Exh		10-1329	1.500 Head Dia. 4 Groove. +5, 15, 30 O/S May Be Stem Avail.
	Exh		10-518	1.563 Head Dia. 4 Groove
	Int		10-514	1.844 Head Dia. 2 Groove
	Int		10-938	1.780 Head Dia. 2 Groove. +5, 15, 30 O/S Stem Avail.
Valve Seat Insert	Exh		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
	Int		20-1750-1	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth.
	Int		20-2000-10	1-9/16 I.D. 2.000 O.D. 1/4 Depth
Guide	Exh		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		30-9610	2.625 OAL. Spiral I.D. 30-5610 Plain I.D. Also Avail.
Spring	Both		32-672	2.000 Free Length. OEM # 1739534
	Both		32-991	2.068 Free Length
Keeper	Exh		34-766	4 Groove. Heat Treated. OEM # 1614666
	Int		34-746	2 Round Grooves. OEM # 381875.
Lifter	Both		36-2011CCI	Hydraulic Flat. 1-pc. Chilled Cast Iron



# CHRYSLER

# INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>H318, HA318, HB318, HC318, HT318, LH318, LT318</b>			<b>V8 BORE - 3.91"/99.3mm</b>
Lifter	Both		36-2084	Mechanical High Performance
Valve Stem Seal	Exh		38-780-25	Polyacrylic. Umbrella. Nitrile Matl. 38-780-15 Also Avail.
	Int		38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
Rocker Component			40-2892	Rocker Arm, LH. Stamped
			40-2893	Rocker Arm, RH. Stamped
<b>LINE 9</b>	<b>IND-24/A, IND56/A</b>			<b>V8 BORE - 3.8125"/96.8mm</b>
Guide	Exh		30-1740	2.813 OAL. 0.6895 O.D. 0.3745 I.D.
	Int		30-1803	2.938 OAL. After S/N 5001
<b>LINE 10</b>	<b>361 C.I. (5.9L) LPG</b>			<b>1960-77 V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-1017S	1.500 Head Dia. Stellite Faced. 2 Groove. +15 O/S May Be Avail.
	Exh		10-576	1.500 Head Dia. 2 Groove
	Int		10-577	1.880 Head Dia. 4 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1625-20	1-5/16 I.D. 1-5/8 O.D. 0.395 Depth
	Int		20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Exh		22-1624-1N	1-21/64 I.D. 1.6245 O.D. 3/8 Depth. LPG, Propane, Natural Gas
Guide	Exh		30-1839	3.090 OAL. OEM # 1851674. Plain I.D.
	Int		30-1840	3.280 OAL. OEM # 1851674. Plain I.D.
Spring	Int		32-869	2.610 Length
Keeper	Exh		34-746	2 Round Grooves. OEM # 381875.
	Int		34-766	4 Groove. Heat Treated. OEM # 1614666
Rocker Component			40-2850	Rocker Arm. Stamped. LH
			40-2851	Rocker Arm. Stamped. RH
			42-2701	Rocker Shaft. 2 Required
<b>LINE 11</b>	<b>HB361, HC361, HT361, HB413, HC413</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-1017S	1.500 Head Dia. Stellite Faced. 2 Groove. +15 O/S May Be Avail.
	Exh		10-576	1.500 Head Dia. 2 Groove
	Int		10-577	1.880 Head Dia. 4 Groove. +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1625-20	1-5/16 I.D. 1-5/8 O.D. 0.395 Depth
	Int		20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
	Exh		22-1624-1N	1-21/64 I.D. 1.6245 O.D. 3/8 Depth
Guide	Exh		30-1839	3.090 OAL. OEM # 1851674. Plain I.D.
	Exh		30-7337	3.090 OAL. Spiral I.D.
	Int		30-1840	3.280 OAL. OEM # 1851674. Plain I.D.
Spring	Exh		32-942	2.130 OAL
	Int		32-869	2.580 Free Length. OEM # 2658471
Keeper	Exh		34-746	2 Round Grooves. OEM # 381875.
	Int		34-766	4 Groove. Heat Treated. OEM # 1614666
Lifter	Both		36-976	HB413
Rocker Component			40-2850	Rocker Arm. Stamped. LH
			40-2851	Rocker Arm. Stamped. RH
			42-2701	Rocker Shaft. 2 Required

# CHRYSLER

# INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>H361, H383, HA383, HB383, H413</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		<b>10-520</b>	1.600 Head Dia. 4 Groove
	Int		<b>10-548</b>	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		<b>20-2187-2</b>	1-13/16 I.D. 2-3/16 O.D. 9/32 Depth
Guide	Exh		<b>30-1839</b>	3.090 OAL. OEM # 1851674. Plain I.D.
	Exh		<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int		<b>30-1840</b>	3.280 OAL. OEM # 1851674. Plain I.D.
	Int		<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both		<b>32-869</b>	2.580 Free Length. OEM # 2658471
Keeper	Exh		<b>34-766</b>	4 Groove. Heat Treated. OEM # 1614666
	Int		<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both		<b>36-976</b>	Hydraulic
Rocker Component			<b>40-2850</b>	Rocker Arm. Stamped. LH
			<b>40-2851</b>	Rocker Arm. Stamped. RH
			<b>42-2701</b>	Rocker Shaft. 2 Required

<b>LINE 13</b>	<b>H400, H440</b>			<b>V8 BORE - 4.32"/109.728mm</b>
Valve	Exh		<b>10-1156</b>	1.740 Head Dia. 4 Groove, +3, +15 O/S Stem May Be Avail.
	Int		<b>10-548</b>	2.080 Head Dia. 2 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Int		<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Both		<b>30-9113</b>	2.375 OAL. 0.502 O.D. Spiral I.D. 30-6113 Plain I.D. Also Avail.
Spring	Both		<b>32-869</b>	2.580 Free Length. OEM # 2658471
Keeper	Exh		<b>34-766</b>	4 Groove. Heat Treated. OEM # 1614666
	Int		<b>34-746</b>	2 Round Grooves. OEM # 381875.
Lifter	Both		<b>36-976</b>	Hydraulic
Rocker Component			<b>40-2850</b>	Rocker Arm. Stamped. LH
			<b>40-2851</b>	Rocker Arm. Stamped. RH
			<b>42-2701</b>	Rocker Shaft. 2 Required

# CONTINENTAL

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
N4062, N62 CON		L4	1
Y4069, LY69, LY91, PY69, PY91, Y4091, Y69, Y91, Y4112		L4	2
PY112, Y112		L4	3
Z120 CON		L4	4
F124, F140, F4124, F4140, LF124, LF140, PF124, PF140		L4	5
Z129, Z134, Z145 CON		L4	6
F135, F163 Industrial		L4	7
F162, F4162, LF162, PF162 CON		L4	8
G176, G176 LPG CON		L4	9
F186, F6186		L6	10
G193, G4193		L4	11
E201, E208/ LPG, E223/LPG, E242/LPG CON		L4	12
DS202; 12V		L6	13
24B, F209, F6209, PF209		L6	14
F226, F6226, PF226		L6	15
F227, F245		L6	16
H260, H277		L4	17
HD260, HD277 Diesel CON		L4	18
M271, M290, M330 CON		L6	19

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>N4062, N62 CON</b>			<b>L4 BORE - 2.375"/60.3mm</b>
Valve Seat Insert	Both		20-1000-1	3/4 I.D. 1 O.D. 3/16 Depth
Guide	Both		30-1678	1.658 OAL. OEM # N62I200
Spring	Both		32-520	1.750 Free Length. OEM # N62I201
<b>LINE 2</b>	<b>Y4069, LY69, LY91, PY69, PY91, Y4091, Y69, Y91, Y4112</b>			<b>L4 BORE - 2.50"/63.5mm</b>
Valve	Exh		10-489	1.015 Head Dia. Use w/ Rotator & Late Style Valve Keeper. OEM # Z120T-161
	Int		10-1365	1.203 Head Dia. Use w/ Late Style Valve Keeper. OEM # Y400I-332
Valve Seat Insert	Exh		20-1125-1	7/8 I.D. 1-1/8 O.D. 7/32 Depth
	Int		20-1312-1	1-1/16 I.D. 1-5/16 O.D. 3/16 Depth
Guide	Both		30-1619	2.281 OAL. OEM # Y400I209, Y400I232.
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Both		34-614	Heat Treated. OEM # Z120I235.
	Both		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
<b>LINE 3</b>	<b>PY112, Y112</b>			<b>L4 BORE - 3.188"/81mm</b>
Valve	Exh		10-489	1.015 Head Dia. Use w/ Rotator & Late Style Valve Keeper. OEM # Z120T-161
	Int		10-1365	1.203 Head Dia. Use w/ Late Style Valve Keeper. OEM # Y400I-332
Valve Seat Insert	Exh		20-1125-1	7/8 I.D. 1-1/8 O.D. 7/32 Depth
	Int		20-1312-1	1-1/16 I.D. 1-5/16 O.D. 3/16 Depth
Guide	Both		30-1619	2.281 OAL. OEM # Y400I209, Y400I232.
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Both		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
	Exh		34-614	Heat Treated. OEM # Z120I235.
Expansion Plug Kit			97-49	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 4</b>	<b>Z120 CON</b>			<b>L4 BORE - 3.188"/81mm</b>
Valve	Both		10-234	1.015 Head Dia. w/ Drilled Stem

# CONTINENTAL

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>Z120 CON</b>			<b>L4 BORE - 3.188"/81mm</b>
Valve	Both		10-489	1.015 Head Dia. Use w/ Rotator & Late Style Valve Keeper. OEM # Z120T-161
Valve Seat Insert	Both		20-1125-1	7/8 I.D. 1-1/8 O.D. 7/32 Depth
Guide	Both		30-1717	1.813 OAL. OEM # Z129I-204
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Exh		34-614	Heat Treated. OEM # Z120I235.
	Int		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
Valve Stem Seal	Both		38-1046-75	All Teflon. Machine Guide To 0.531 O.D.
<b>LINE 5</b>	<b>F124, F140, F4124, F4140, LF124, LF140, PF124, PF140</b>			<b>L4 BORE - 3.00"/76.2mm</b>
Valve	Exh		10-170	1.203 Head Dia. w/ Drilled Stem. OEM # F400T-296
	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. OEM # F600I-352
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. OEM # F600I-112
Valve Seat Insert	Exh		20-1375-3N	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth. w/ 1.203 Valve Head Dia. LPG. Non Magnetic, Nickel Matl.
	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. w/ 1.328 Valve Head Dia.
	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. LPG. w/ 1.328 Valve Head Dia.
	Exh.		20-1375-3	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth, w/ 1.203 Valve Head Dia.
Guide	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Both		30-1620	2.313 OAL. OEM # F400I-213
	Both		32-495	2.063 Free Length. OEM # Y400I215
	Both		34-159	Pin For 0.30 Drilled Stem
Keeper	Exh		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
<b>LINE 6</b>	<b>Z129, Z134, Z145 CON</b>			<b>L4 BORE - 3.25"/82.55mm</b>
Valve	Exh		10-486	1.140 Head Dia. Use w/ Rotator
	Int		10-343	1.278 Head Dia.
Valve Seat Insert	Exh		20-1250-1	1.000 I.D. 1-1/4 O.D. 7/32 Depth.
	Int		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
Guide	Both		30-1717	1.813 OAL. OEM # Z129I-204
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Exh		34-614	Heat Treated. OEM # Z120I235.
	Int		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
Valve Stem Seal	Both		38-1046-75	All Teflon. Machine Guide To 0.531 O.D.
<b>LINE 7</b>	<b>F135, F163 Industrial</b>			<b>L4 BORE - 3.125"/79.375mm</b>
Valve	Exh		10-1147	1.203 Head Dia. Exc. LPG
	Int		10-1148	1.516 Head Dia. All
Valve Seat Insert	Exh		20-1375-3	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth
	Exh		20-1375-3N	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth. w/ 1.203 Valve Head Dia. LPG. Non Magnetic, Nickel Matl.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel
Guide	Both		30-1962	2.375 OAL. Nitrocarburized. OEM # F400I-251
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # CVT3234
Expansion Plug Kit			97-50	Steel Kit. Brass Kit Avail. In Suffix B

# CONTINENTAL

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>F162, F4162, LF162, PF162 CON</b>			<b>L4 BORE - 3.437"/87.3mm</b>
Valve	Exh		10-170	1.203 Head Dia. w/ Drilled Stem. OEM # F400T-296
	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. OEM # F600I-352
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. OEM # F600I-112
Valve Seat Insert	Exh		20-1375-3	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth, w/ 1.203 Valve Head Dia.
	Exh		20-1375-3N	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth. w/ 1.203 Valve Head Dia. LPG. Non Magnetic, Nickel Matl.
	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. w/ 1.328 Valve Head Dia.
	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. LPG. w/ 1.328 Valve Head Dia.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Int		30-1620	2.313 OAL. Exc. w/ Roto-Type Valve. OEM # F400I-213
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Both		34-159	Pin For 0.30 Drilled Stem
	Exh		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
<b>LINE 9</b>	<b>G176, G176 LPG CON</b>			<b>L4 BORE - 3.57"/90.8mm</b>
Valve	Int		10-576	1.328 Head Dia. OEM # G176I304, 830761M91
Valve Seat Insert	Int		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel For LPG.
Guide	Both		30-1833	1.813 OAL. OEM # G176I200
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # CVT3234
<b>LINE 10</b>	<b>F186, F6186</b>			<b>L6 BORE - 3.00"/76.2mm</b>
Valve	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. OEM # F600I-352
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. OEM # F600I-112
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-1515	2.563 OAL
Spring	Both		32-466	1.969 Free Length. OEM # F600I232
Keeper	Both		34-159	Pin For 0.30 Drilled Stem
<b>LINE 11</b>	<b>G193, G4193</b>			<b>L4 BORE - 3.75"/95.2mm</b>
Valve	Exh		10-1055	1.375 Head Dia.
	Exh		10-210	1.328 Head Dia. 1 Groove. Use w/ Rotator
Valve Seat Insert	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Non-Magnetic Nickel Matl.
	Int		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		30-1970	2.719 OAL. OEM # G193I-210
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # CVT3234
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562
<b>LINE 12</b>	<b>E201, E208/ LPG, E223/LPG, E242/LPG CON</b>			<b>L4 BORE - 3.62"/92mm</b>
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Non-Magnetic For LPG
	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int		20-1687-1	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth
Guide	Both		30-1673	2.688 OAL. Plain I.D. Old Style. OEM # 1005916M1
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # CVT3234
<b>LINE 13</b>	<b>DS202; 12V</b>			<b>L6 BORE - 3.1250"/79.3mm</b>
Valve Seat Insert	Exh		20-1375-3	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth

# CONTINENTAL

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 13</b>	<b>DS202; 12V</b>			<b>L6 BORE - 3.1250"/79.3mm</b>
Valve Seat Insert	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-1470	2.750 OAL. OEM # D600I233
<b>LINE 14</b>	<b>24B, F209, F6209, PF209</b>			<b>L6 BORE - 3.188"/81mm</b>
Valve	Exh		10-170	1.203 Head Dia. w/ Drilled Stem. OEM # F400T-296
	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. OEM # F600I-352
	Exh		10-210	1.328 Head Dia.
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. OEM # F600I-112
Valve Seat Insert	Exh		20-1375-3	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth. w/ 1.203 Valve Head Dia.
	Exh		20-1375-3N	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth. w/ 1.203 Valve Head Dia. LPG. Non Magnetic, Nickel Matl.
	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. LPG. w/ 1.328 Valve Head Dia.
Guide	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Both		30-1515	2.563 OAL. Exc. w/ Roto-Type Valve. OEM # F600I-235
	Both		32-466	1.969 Free Length. OEM # F600I232
	Both		34-159	Pin For 0.30 Drilled Stem
Spring	Both		32-466	1.969 Free Length. OEM # F600I232
	Both		32-672	2.000 Free Length
Keeper	Both		34-159	Pin For 0.30 Drilled Stem
	Exh		34-555	1 Square Groove. Heat Treated
Keeper	Both		34-159	Pin For 0.30 Drilled Stem
	Exh		34-822	Pin For 0.13 Drilled Stem. OEM # Y400I205
<b>LINE 15</b>	<b>F226, F6226, PF226</b>			<b>L6 BORE - 3.3125"/84.14mm</b>
Valve	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. OEM # F600I-352
	Exh		10-210	1.328 Head Dia. Use w/ Rotator
	Int		10-211	1.520 Head Dia. Use w/ Rotocap
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. OEM # F600I-112
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. LPG. w/ 1.328 Valve Head Dia.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-1515	2.563 OAL. Exc. w/ Roto-Type Valve. OEM # F600I-235
	Both		30-1620	2.313 OAL. 0.6570 O.D. 0.3425 I.D.
Spring	Both		32-466	1.969 Free Length. OEM # F600I232
	Both		32-672	2.000 Free Length
Keeper	Both		34-159	Pin For 0.30 Drilled Stem
	Exh		34-555	1 Groove. Heat Treated. OEM # CVT3234
<b>LINE 16</b>	<b>F227, F245</b>			<b>L6 BORE - 3.3125"/84.14mm</b>
Valve	Exh		10-1147	1.203 Head Dia. Exc. LPG
	Int		10-1148	1.516 Head Dia. All
Valve Seat Insert	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel
Guide	Both		30-1620	2.313 OAL. OEM # F400I-213
	Both		30-1962	2.375 OAL
Spring	Both		32-495	2.063 Free Length. OEM # Y400I215
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # CVT3234
Expansion Plug Kit			97-51	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>H260, H277</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Exh		20-1625-3	1-5/16 I.D. 1-5/8 O.D. 1/4 Depth.

**CONTINENTAL****HEAVY DUTY**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 17</b>	<b>H260, H277</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Int		<b>20-1812-5</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		<b>30-1701</b>	2.875 OAL. OEM # H260I200
	Exh		<b>30-1533</b>	2.875 OAL. OEM # M600I256
Spring	Both		<b>32-480</b>	2.375 Free Length. OEM # A600I338
Keeper	Both		<b>34-802</b>	Heat Treated. OEM # E604I202
<b>LINE 18</b>	<b>HD260, HD277 Diesel CON</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Exh		<b>20-1562-6N</b>	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth. Non Magnetic, Nickel Matl.
	Int		<b>20-1687-3</b>	1-7/16 I.D. 1-11/16 O.D. 1/4 Depth.
Guide	Int		<b>30-1701</b>	2.875 OAL. OEM # H260I200
<b>LINE 19</b>	<b>M271, M290, M330 CON</b>			<b>L6 BORE - 3.62"/92mm</b>
Valve Seat Insert	Exh		<b>20-1687-7</b>	1-3/8 I.D. 1-11/16 O.D. 1/4 Depth.
	Int		<b>20-2000-3</b>	1-5/8 I.D. 2.000 O.D. 19/64 Depth
Guide	Exh		<b>30-1533</b>	2.875 OAL. OEM # M600I256
	Int		<b>30-1487</b>	3.313 OAL. OEM # M600I255

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# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
140 C.I. (2.3L) 4A2.3 (Onan), 6AT Turbo		L6	1
H, HB, HB-4, HBS, HR 4 & 6 Cyl.		L4,6	2
4B/T (3.9L), 6B/T (5.9L) Turbo Diesel 12V, GTA5.9		L4, L6	3
C90, C105, C140, C160, C175, C180, C190B, CS/T464		L4,6	4
V352, V378, V6-140, V6-155 12V		V6	5
5.9L (359 C.I.) ISB, QSB Turbo Diesel 24V		L6	6
J Series 401 C.I. 12V		L6	7
6690 (6.7L) OHV Turbo Diesel 24V QSB	2007-	L6	8
V470, V504, V555, V8-185/210/225, VT225/555		V8	9
ISC/QSC Series 8.3L (505 C.I.) 24V Turbo Diesel		L6	10
6C Series 8.3L (505 C.I.) 12V Turbo		L6	11
ISL, QSL Series 8.9L 24V Turbo Diesel	1998-20	L6	12
V588, VT588, V6-200		V6	13
K Series 600 C.I. (9.8L) 12V		L6	14
L10, M11 ISM/QSM Series 24V		L6	15
N/H743, NH, NH180, NH195, NR, NT Series 743 C.I.		L6	16
V/T785, V/T903, V/T903M, V8-265		V8	17
NH, NT Series 855 C.I. GTA855		L6	18
N-14 855 C.I.		L6	19
12-15.0L S/DOHC 24V ISX, QSX, ISZ, QSZ Turbo		L6	20
NVH450, V1486, VT1486, VT600		V12	21
VT12/1710 Series		V12	22

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>140 C.I. (2.3L) 4A2.3 (Onan), 6AT Turbo</b>			<b>L6 BORE - 3.50"/88.9mm</b>
Valve Seat Insert	Exh		<b>22-1460-2N</b>	1.236 I.D. 1.4605 O.D. 0.236 Depth. OEM # C0110278101
	Int		<b>22-1593-1</b>	1.306T I.D. 1.593 O.D. 0.224 Depth. OEM # C0110322601
Guide	Both		<b>30-8129</b>	2.256 OAL. OEM # 110-3495
	Exh		<b>30-8346</b>	2.492 OAL. w/ Seal Groove. OEM # 110-3496
<b>LINE 2</b>	<b>H, HB, HB-4, HBS, HR 4 &amp; 6 Cyl.</b>			<b>L4,6 BORE - 4.875"/123.8mm</b>
Guide	Both		<b>30-1800</b>	3.656 OAL. Late Type Non-Flanged
Valve Stem Seal	Both		<b>38-59-45</b>	Viton. 2-Ring. For 5/16 Stem
<b>LINE 3</b>	<b>4B/T (3.9L), 6B/T (5.9L) Turbo Diesel 12V, GTA5.9</b>			<b>L4, L6 BORE - 4.02"/102mm</b>
Valve	Exh		<b>10-1664</b>	1.654 Head Dia. 45 Deg. Seat. OEM # 3802356, 3920868
	Exh		<b>10-1801</b>	1.654 Head Dia. Marine Applications. 45 Degree Seat. OEM # 3925175.
	Exh		<b>10-1862</b>	1.654 Head Dia. Natural Gas. 20 Degree Seat. OEM# 3922714
	Exh		<b>10-2252S</b>	1.654 Head Dia. 5.261 OAL Natural Gas 20 Degree Seat OEMs 30200215, 4090442
	Int		<b>10-1665</b>	1.772 Head Dia. 30 Deg. Seat. OEM # 3802355, 3920867.
	Int		<b>10-2253S</b>	1.772 Head Dia. 5.264 OAL Natural Gas 20 Degree Seat OEMs 30200214, 3395615
	Int		<b>10-2257</b>	1.772 Head Dia. 5.085 OAL Natural Gas 20 Degree Seat OEMs 3802658 & 3922713
	Valve Seat Insert	Exh		<b>20-1750-7</b>
Int			<b>20-1875-8</b>	1-1/2T I.D. 1-7/8 O.D. 7/32 Depth. Universal Size For Heads w/o OEM Insert
Exh			<b>22-1722-1</b>	1.357 I.D. 1.722 O.D. 0.265 Depth. Incl. HO Marine. OEM # 3904105
Exh			<b>22-1722-3</b>	1.382T I.D. 1.722 O.D. 0.265 Depth. 20 Degree. Natl. Gas. OEM # 3395612



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# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>4B/T (3.9L), 6B/T (5.9L) Turbo Diesel 12V, GTA5.9</b>			<b>L4, L6 BORE - 4.02"/102mm</b>
Valve Seat Insert	Int		22-1853-1	1.498 I.D. 1.853 O.D. 0.273 Depth. Incl. HO Marine. OEM # 3906854
	Int		22-1853-2	1.495T I.D. 1.853 O.D. 0.271 Depth. 20 Degree. Natl. Gas. OEM # 3030211
Guide	Both		30-8277	2.500 OAL. 0.4395 O.D. 0.3162 I.D. Thin Wall. OEM # 3906206
	Exh		30-8178	2.052 OAL. 0.5527 O.D. 0.3162 I.D. Thick Wall. OEM # 3904409
Spring	Int		30-8177	2.397 OAL. 0.5527 O.D. 0.3162 I.D. Thick Wall. OEM # 3904408
	Both		32-00276	2.235 Free Length. 30 PSI. Non-Marine. OEM # 3900276
	Both		32-02061	2.385 Free Length. 36 PSI. Both Non-Marine, Int. Marine. OEM # 3926700, 3932453
Keeper	Both		32-04049	2.194 Free Length. OEM # 3925667. B Version 30Lbs.
	Both		34-00250	1 Groove. OEM # 3900250
Lifter	Both		36-2302	Mechanical. OEM # 3931623, 3925031
Rotator / Retainer	Both		37-2299	Retainer. OEM # 3900299
	Both		37-5666	Rotator. OEM # 3925666, 3957914
Valve Stem Seal	Both		38-535-45	Viton. Ring and Band. Before April '03. OEM # 3901097, 3921640
	Both		38-6114-55	Viton. Top Hat. After April '03. OEM # 3957912
Performance Spring	Both		52-4049	2.194 Free Length. 75 Lb. Drop-In Performance Spring
Push Rod	Both		74-6448	10.910 Length. OEM # 3923262
Expansion Plug Kit			97-163SS	Stainless Steel Kit
<b>LINE 4</b>	<b>C90, C105, C140, C160, C175, C180, C190B, CS/T464</b>			<b>L4,6 BORE - 4.4375"/112.7mm</b>
Valve	Exh		10-515S	1.310 Head Dia. OEM #'s 100687, 113447 & 144910
Valve Seat Insert	Both		22-1431-1	1-5/32 I.D. 1.4305 O.D. 0.160 Depth, OEM # 70843
Guide	Both		30-1823	2.820 OAL. OEM # 2105293
Keeper	Both		34-123	2 Groove.
Valve Stem Seal	Both		38-5707-45	Viton. Top Hat. OEM # 3915707
<b>LINE 5</b>	<b>V352, V378, V6-140, V6-155 12V</b>			<b>V6 BORE - 4.625"/117.5mm</b>
Valve	Both		10-1420S	1.605 Head Dia. Late Style With Tip to Groove Length Of 0.200, OEM 3275355
	Int		10-1228	1.605 Head Dia. OEM # 166774
Valve Seat Insert	Exh		22-1691-2	1-7/16 I.D. 1.6905 O.D. 0.200 Depth, +5, +10, +20, & +30 O/S Avail., OEM # 154390
	Int		22-1691-1	1-7/16 I.D. 1.6905 O.D. 0.181 Depth, +5, +10, +20, & +30 O/S Avail., OEM # 195000
Guide	Both		30-6169	2.500 OAL. OEM # 154946
	Both		30-8420	2.500 OAL. Combustion End I.D. Chamfer. OEM # 3278173
Spring	Both		32-1185	1.985 Free Length. OEM # 163037
Keeper	Both		34-05354	Use w/ 10-1420S. 1 Round Groove
	Both		34-613	Use w/ 10-1228. 1 Groove. Heat Treated. OEM # 166772
Rocker Component			42-3679	Valve Cam Roller. OEM # 153679
			42-4223	Injector Roller Pin. OEM # 114223
			42-4571	Injector Cam Roller. OEM # 154571
			42-9154	Valve Roller Pin. OEM # 169154
Injector Component			87-7759	Injector O-Ring. OEM # 3007759
			87-9630	Injector Tube. OEM # 169630
<b>LINE 6</b>	<b>5.9L (359 C.I.) ISB, QSB Turbo Diesel 24V</b>			<b>L6 BORE - 4.02"/102mm</b>
Valve	Exh		10-13006	1.299 Head Dia. Hi-Output. 45 Degree. OEM # 3979602

# CUMMINS

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>5.9L (359 C.I.) ISB, QSB Turbo Diesel 24V</b>			<b>L6 BORE - 4.02"/102mm</b>
Valve	Exh		10-13161	1.299 Head Dia. Inconel. 45 Degree. Oem # 3968183, 4089672
	Exh		10-2015	1.299 Head Dia. 45 Degree. OEM # 3940734, 3802967
	Int		10-2014	1.299 Head Dia. 30 Degree. OEM # 3940735, 3802924
Valve Seat Insert	Exh		22-1375-2N	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942299
	Int		22-1375-1	1.100 I.D. 1.375 O.D. 0.227 Depth.
Guide	Exh		30-3022	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Exh		30-3034	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.335
	Exh		30-3081	2.020 OAL. 0.4395 Optional Straight O.D. (No Flange). No Special Tooling Req.
	Int		30-3021	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Int		30-3033	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal Boss length 0.335
	Int		30-3080	1.937 OAL. 0.4395 Optional Straight O.D. (No Flange). No Special Tooling Req.
	Spring	Both		32-04053
Keeper	Both		34-5020	1 Round Groove. OEM # 3940123
Lifter			36-7097	Mechanical. 1998.5-'02. OEM # 3942565
			36-7098	Mechanical. '03-Up. OEM # 3947759
Rotator / Retainer	Both		37-3198	Retainer. OEM # 3943198
Valve Stem Seal	Both		38-9191-45	Viton. Top Hat. OEM # 3955393/4
	Exh		38-0438-45	Viton. Metal Clad. OEM # 3945438
	Int		38-0989-45	Viton. Metal Clad. OEM # 3942989
Performance Spring	Both		52-4053	1.890 Free Length. Ovate Wire, Increased PSI for performance.
Push Rod			74-6448	10.910 Length. OEM # 3923262
Expansion Plug Kit			97-302SS	Stainless Steel Kit
<b>LINE 7</b>	<b>J Series 401 C.I. 12V</b>			<b>L6 BORE - 4.125"/104.8mm</b>
Valve	Exh		10-515S	1.310 Head Dia. OEM #'s 100687, 113447 & 144910
Valve Seat Insert	Both		22-1431-1	1-5/32 I.D. 1.4305 O.D. 0.160 Depth, OEM # 70843
Guide	Both		30-1823	0.3429 I.D. 0.5633 O.D. 2.810 OAL
Keeper	Both		34-746	2 Groove. Heat Treated. OEM # S-2037
<b>LINE 8</b>	<b>6690 (6.7L) OHV Turbo Diesel 24V QSB</b>			<b>2007- L6 BORE - 107mm/4.21"</b>
Valve	Exh		10-13006	1.299 Head Dia. 45 Degree. OEM # 3979602
	Exh		10-13161	1.299 Head Dia. Inconel. 45 Degree. Oem # 3968183, 4089672
	Int		10-2014	1.299 Head Dia. 30 Degree.
Valve Seat Insert	Exh		22-1375-2N	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942299
	Int		22-1375-1	1.100 I.D. 1.375 O.D. 0.227 Depth.
Guide	Exh		30-3022	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Exh		30-3034	2.018 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.335
	Int		30-3021	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal boss length 0.362
	Int		30-3033	1.937 OAL. O.D. 0.5015. Boss O.D. 0.510. Seal Boss length 0.335
Spring	Both		32-04053	1.890 Free Length. OEM # 4936080
Keeper	Both		34-5020	1 Round Groove. OEM # 3940123
Lifter	Both		36-7098	Mechanical. OEM # 3947759
Valve Stem Seal	Both		38-9191-45	Viton. Top Hat. OEM # 3955393/4
Performance Spring	Both		52-4053	1.890 Free Length. Ovate Wire, Increased PSI for performance.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>V470, V504, V555, V8-185/210/225, VT225/555</b>			<b>V8 BORE - 4.625"/117.5mm</b>
Valve	Both		<b>10-1420S</b>	1.605 Head Dia. Late Style With Tip to Groove Length Of 0.200 OEM # 3275356
	Int		<b>10-1228</b>	1.605 Head Dia. OEM # 166774
Valve Seat Insert	Exh		<b>22-1691-2</b>	1-7/16 I.D. 1.6905 O.D. 0.200 Depth, +5, +10, +20, & +30 O/S Avail., OEM # 154390
	Int		<b>22-1691-1</b>	1-7/16 I.D. 1.6905 O.D. 0.181 Depth, +5, +10, +20, & +30 O/S Avail., OEM # 195000
Guide	Both		<b>30-6169</b>	2.500 OAL. OEM # 154946
	Both		<b>30-8420</b>	2.500 OAL. Combustion End I.D. Chamfer. OEM # 3278173
Spring	Both		<b>32-1185</b>	1.985 Free Length. OEM # 163037
Keeper	Both		<b>34-05354</b>	Not for use with 10-1228. 1 Round Groove
	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 166772
Rocker Component			<b>42-3679</b>	Valve Cam Roller. OEM # 153679
			<b>42-4223</b>	Injector Roller Pin. OEM # 114223
			<b>42-4571</b>	Injector Cam Roller. OEM # 154571
			<b>42-9154</b>	Valve Roller Pin. OEM # 169154
Injector Component			<b>87-7759</b>	Injector O-Ring. OEM # 3007759
			<b>87-9630</b>	Injector Tube. OEM # 169630
Expansion Plug Kit			<b>97-83SS</b>	Stainless Steel Kit
<b>LINE 10</b>	<b>ISC/QSC Series 8.3L (505 C.I.) 24V Turbo Diesel</b>			<b>L6 BORE - 4.49"/114mm</b>
Valve	Exh		<b>10-2187</b>	1.496 Head Dia. OEM # 3942589
	Int		<b>10-2188</b>	1.496 Head Dia. OEM # 3942588
Valve Seat Insert	Exh		<b>22-1554-2</b>	1.301T I.D. 1.554 O.D. 0.190 Depth. OEM # 3940153, 3968074
	Int		<b>22-1554-1</b>	1.280T I.D. 1.554 O.D. 0.236 Depth. OEM # 3940152, 3969704
Guide	Both		<b>30-8715</b>	1.949 OAL. OEM # 3942645, 4934063
Spring	Both		<b>32-04058</b>	2.363 Free Length. Int. Only for >298HP with Common Rail. Use with 37-4452. OEM # 4936076, 3944711
	Exh		<b>32-1595</b>	2.106 Free Length. Exh for >295HP with Common Rail. Use with Rotator. OEM # 4931931.
Keeper	Both		<b>34-00250</b>	1 Round Groove. OEM # 3900250
Lifter	Both		<b>36-7099</b>	Mechanical. OEM # 3965966, 3945866. Use w/ 3966431 Camshaft Only
Rotator / Retainer	Both		<b>37-2757</b>	Retainer. OEM # 3972757
	Both		<b>37-4452</b>	Retainer. OEM # 3944452
Valve Stem Seal	Both		<b>38-3888-45</b>	Viton. Top Hat. OEM # 3943888, 3948578
<b>LINE 11</b>	<b>6C Series 8.3L (505 C.I.) 12V Turbo</b>			<b>L6 BORE - 4.49"/114mm</b>
Valve	Exh		<b>10-1666</b>	1.811 Head Dia. 5.942 OAL. OEM # 3921444, 3802085, 3902254
	Exh		<b>10-2254</b>	1.811 Head Dia. 5.942 OAL. Natl. Gas. OEM #s 3802813, 3927255
	Int		<b>10-1667</b>	2.047 Head Dia. 5.946 OAL. OEM#s 3924492, 3802463, 3902253
	Int		<b>10-2255</b>	2.047 Head Dia. 5.952 OAL. Natl. Gas. OEM #s 3802812, 3922713
Valve Seat Insert	Exh		<b>22-1857-1</b>	1.575T I.D. 1.857 O.D. 0.229 Depth. OEM # 3929005, 3928174
	Exh		<b>22-1857-2</b>	1.573T I.D. 1.855 O.D. 0.229 Depth. 20 Degree. Natl. Gas. OEM # 3933088
	Exh		<b>22-1857-3</b>	1.575T I.D. 1.857 O.D. 0.250 Depth, .020 Thicker than 22-1857-1. OEM # 3928174
	Int		<b>22-2126-2</b>	1.751T I.D. 2.126 O.D. 0.322 Depth. 20 Degree. Natl. Gas. OEM # 3927256
	Int		<b>22-2129-2</b>	1.752T I.D. 2.129 O.D. 0.306 Depth OEM # 3908830, 3924582

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>6C Series 8.3L (505 C.I.) 12V Turbo</b>			<b>L6 BORE - 4.49"/114mm</b>
Guide	Both		<b>30-3068</b>	2.835 OAL. 0.376 I.D. 0.630 O.D. OEM # 3925863. Natl. Gas
	Both		<b>30-8122</b>	2.835 OAL. OEM # 3901187, 3923564
	Both		<b>30-8715</b>	1.949 OAL. 6CT Encore Eng., OEM #'s 3945249, 3948102
Spring	Both		<b>32-06412</b>	2.545 Free Length. OEM # 3906412, 3916588
Keeper	Both		<b>34-01177</b>	1 Groove. OEM # 3901177
Lifter	Both		<b>36-2302</b>	Mechanical. OEM # 3931623, 3925031
Rotator / Retainer	Both		<b>37-2757</b>	Retainer. OEM # 3972757
Valve Stem Seal	Both		<b>38-0057-45</b>	OEM # 3930057. Natl. Gas
	Both		<b>38-5707-45</b>	Viton. Top Hat. OEM # 3915707, 3927642
Injector Component			<b>87-9886</b>	Injector Seal. OEM # 3909886
<b>LINE 12</b>	<b>ISL, QSL Series 8.9L 24V Turbo Diesel</b>			<b>1998-20 L6 BORE - 4.49"/114mm</b>
Valve	Both		<b>10-13163</b>	1.496 Head Dia. Inconel Head. 20 Deg. For Natl. Gas.
	Exh		<b>10-2187</b>	1.496 Head Dia. OEM # 3942589, 3969637
	Int		<b>10-2188</b>	1.496 Head Dia. OEM # 3942588, 3970727
Valve Seat Insert	Both		<b>22-1554-3N</b>	1.303T I.D. 0.197 Depth. 20 Deg. Nickel
	Exh		<b>22-1554-2</b>	1.301T I.D. 1.554 O.D. 0.190 Depth. OEM # 3940153, 3968074
	Int		<b>22-1554-1</b>	1.280T I.D. 1.554 O.D. 0.236 Depth. OEM # 3940152, 3969704
Guide	Both		<b>30-8715</b>	1.949 OAL. OEM # 3942645, 4934063
Spring	Both		<b>32-04058</b>	2.363 Free Length. Int. Only for >298HP with Common Rail. Use with 37-4452. OEM # 4936076, 3944711
	Exh		<b>32-1595</b>	2.106 Free Length. Exh for >295HP with Common Rail. Use with Rotator. OEM # 4931931.
Keeper	Both		<b>34-00250</b>	1 Round Groove. OEM # 3900250
Lifter	Both		<b>36-7099</b>	Mechanical. OEM # 3965966
Rotator / Retainer	Both		<b>37-4452</b>	Retainer. Int. Only for >298HP with Common Rail. Use with 32-04058. OEM # 3944452
Valve Stem Seal	Both		<b>38-3888-45</b>	Viton. Top Hat. OEM # 3943888, 3948578
<b>LINE 13</b>	<b>V588, VT588, V6-200</b>			<b>V6 BORE - 5.50"/139.7mm</b>
Valve	Exh		<b>10-702</b>	1.870 Head Dia. OEM # 138887
	Int		<b>10-703</b>	1.870 Head Dia. OEM # 216707
Valve Seat Insert	Both		<b>22-2003-1</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 3107759 w/ Std. O.D.
	Both		<b>22-2003-1N</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 127930 w/ Std. O.D. Non-Magnetic For Turbo and High Heat Applications
	Both		<b>22-2006-1</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. +3 Press Fit Aftermarket Version. +5, 10, 20, 30, 40 O/S Avail.
	Both		<b>22-2006-1N</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. +3 Press Fit Aftermarket Version. Non-Magnetic For Turbo & High Heat Applications. +5, 10, 20, 30, 40 O/S Avail.
Guide	Both		<b>30-1941</b>	3.010 OAL. Std. O.D. Nitrocarburized. OEM # 138937
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. OEM # 127554
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring
<b>LINE 14</b>	<b>K Series 600 C.I. (9.8L) 12V</b>			<b>L6 BORE - 6.25"/158.75mm</b>
Valve	Exh		<b>10-1533S</b>	2.220 Head Dia. Std. Engs. OEM # 3024395, 3035110, 3803529, 3088391
	Exh		<b>10-1734</b>	2.220 Head Dia. Premium #1 & #2 Engs. Inconel. OEM # 3034827, 3803528
	Int		<b>10-1534</b>	2.220 Head Dia. Std & Premium #2 Engs. OEM # 207241, 3803515, 3088393

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 14</b>	<b>K Series 600 C.I. (9.8L) 12V</b>			<b>L6 BORE - 6.25"/158.75mm</b>
Valve	Int		<b>10-1738S</b>	Premium #1 Engs. Special Tribaloy Matl. OEM # 3052820, 3803518, 3088389
Valve Seat Insert	Exh		<b>22-2381-2</b>	2.030 I.D. 2.381 O.D. 0.3225 Depth, Standard Engs. OEM # 205093
	Exh		<b>22-2381-2S</b>	2.030 I.D. 2.381 O.D. 0.3225 Depth, Premium #1 & #2 Engs. OEM # 205093
	Int		<b>22-2381-1</b>	1.930 I.D. 2.381 O.D. 0.3225 Depth, Standard & Premium #2 Engs. OEM # 3026296
	Int		<b>22-2381-1S</b>	1.930 I.D. 2.381 O.D. 0.3255 Depth. Premium #1 Engs. Tribaloy Matl. OEM # 3052819
Guide	Both		<b>30-7373</b>	3.805 OAL. Cut For Seal. Nitrocarburized. OEM # 3018818
	Both		<b>30-7425</b>	3.785 OAL. No Sharp Edge. Nitrocarburized. OEM # 3021693
	Both		<b>30-7610</b>	3.585 OAL. Nitrocarburized. w/ Sharp Edge. OEM # 3202210
	Both		<b>30-8496</b>	4.000 OAL. QSK19 Engine. OEM #'s 3090372, 3170135
Spring	Both		<b>32-04052</b>	2.650 Free Length Use w/ Rotator. OEM # 3633840
	Both		<b>32-1171</b>	3.349 OAL. OEM # 205208, 3629006
Keeper	Both		<b>34-222</b>	1 Square Groove. Heat Treated. OEM # 205091
Rotator / Retainer	Both		<b>37-1081</b>	Rotator. Lower. OEM # 3065936, 3081081, 3640315
Valve Stem Seal	Both		<b>38-134-55</b>	Viton. OEM # 3170134
<b>LINE 15</b>	<b>L10, M11 ISM/QSM Series 24V</b>			<b>L6 BORE - 4.921"/125mm</b>
Valve	Exh		<b>10-1531</b>	1.673 Head Dia. 6.94 OAL. w/ Dual Spring, Up To 250 HP. To 1991. OEM #'s 3033235, 3801357, 3803995, 3895477
	Exh		<b>10-1658S</b>	1.673 Head Dia. 6.94 OAL. 250 HP. Letter "S" In Head, 1988-91. OEM #'s 3417713, 3803996, 3803348.
	Exh		<b>10-1662S</b>	1.673 Head Dia. 7.69 OAL. Single Spring. Letter "S" In Head, From 1991. OEM #'s 3803311, 3418021, 3800639, 3417779
	Exh		<b>10-1720S</b>	1.673 Head Dia. 6.94 OAL. Natural Gas. OEM # 3884005.
	Int		<b>10-1532</b>	1.673 Head Dia. 6.94 OAL. Dual Spring, Single Spring Industrial Appls. To 1991. OEM #'s 3033234, 3801356
	Int		<b>10-1663</b>	1.673 Head Dia. 7.69 OAL. Single Spring. From 1991. OEM # 3803310, 3418020, 3800638
Valve Seat Insert	Both		<b>22-1812-4</b>	1.520 I.D. 1.812 O.D. 0.197 Depth, +5, +10, +20, & +30 O/S Avail., OEM # 3028070, 3418040
	Both		<b>22-1812-5</b>	Special 0.224 O/S Depth. OEM # 3820700
	Both		<b>22-1812-9</b>	1.430 I.D. 1.812 O.D. 0.186 Depth. OEM # 3090704
Guide	Both		<b>30-3008</b>	3.374 OAL. Cut For Seal. OEM # 3328786
	Both		<b>30-7625</b>	2.934 OAL. OEM # 3033314
	Both		<b>30-8167</b>	2.633 OAL. Same As 30-8210 Exc. +.0206 O.D. OEM # 3074118
	Both		<b>30-8210</b>	2.633 OAL. Machined For Seal - Guide Must Protrude 1.079 Above The Top Surface Of The Head. OEM # 3073512, 3328785
Spring	Both		<b>32-05860</b>	4.067 Free Length. 91 L-10. OEM # 3895860, 3070174.
	Both		<b>32-1014</b>	2.685 Free Length. Early Eng. OEM # 211999
	Both		<b>32-1296</b>	3.296 Free Length. Outer. OEM # 3033232
	Both		<b>32-1298</b>	3.100 Free Length. Inner. OEM # 3033233
Keeper	Both		<b>34-05354</b>	1 Round Groove. OEM# 3275354
	Both		<b>34-803</b>	2 Groove. Heat Treated. Early Eng. OEM # 127554
Rotator / Retainer	Both		<b>37-03231</b>	Rotator. OEM # 3033231
	Both		<b>37-3512</b>	Retainer. OEM # 3883512
Valve Stem Seal	Both		<b>38-3966-45</b>	Viton. Metal Clad. OEM # 4003966
	Both		<b>38-6791-45</b>	Viton. Metal Clad. Fits 30-3008. 0.465 Height. OEM # 4026791

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>L10, M11 ISM/QSM Series 24V</b>			<b>L6 BORE - 4.921"/125mm</b>
Valve Stem Seal	Both		<b>38-8781-55</b>	Viton. Metal Clad. OEM # 3328781
Rocker Component			<b>42-5341</b>	Cam Roller Pin. OEM # 3335341
			<b>42-5342</b>	Cam Roller Pin. OEM # 3335342
			<b>42-5487</b>	Cam Roller. OEM # 3895487
			<b>42-5488</b>	Cam Roller. OEM # 3895488
			<b>42-5956</b>	Injector Cam Roller. OEM # 4025956
Injector Component			<b>87-0486</b>	Injector Tube, Thin Nose. Copper. OEM # 3070486, 3011934
			<b>87-0486K</b>	Injector Tube 87-0486 and 87-7759 Ring Kit
			<b>87-1147</b>	Injector Tube, Thick Nose. OEM # 3011935, 3071147
			<b>87-5026</b>	Injector O-Ring. OEM # 3035026
			<b>87-7717</b>	Injector Tube. Stainless. OEM # 3417717
			<b>87-7759</b>	Injector O-Ring. OEM # 3007759
<b>LINE 16</b>	<b>N/H743, NH, NH180, NH195, NR, NT Series 743 C.I.</b>			<b>L6 BORE - 5.125"/130.2mm</b>
Valve	Both		<b>10-1656S</b>	1.740 Head Dia. 15 Deg. Natural Gas. OEM # 90210008
	Both		<b>10-326S</b>	1.745 Head Dia. Stellite Face. OEM #'s 70671 & 144911
Valve Seat Insert	Both		<b>22-1847-1</b>	1-9/16 I.D. 1.8465 O.D. 9/32 Depth. +5, 10, 20, 30 O/S Avail. OEM # 69965, Exc. Natural Gas
Guide	Both		<b>30-1969</b>	3.438 OAL. +3 O/S Avail. OEM # 66890.
Spring	Both		<b>32-681</b>	3.160 Free Length. OEM # 111446
Keeper	Both		<b>34-746</b>	2 Groove. Heat Treated. OEM # S-2037
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber
Rocker Component			<b>42-3558</b>	Rocker Bridge Guide. OEM # 123558
			<b>42-7544</b>	Injector Roller Pin. OEM # 3017544
			<b>42-9260</b>	Valve Roller. OEM # 9260-1
	Both		<b>42-7096</b>	Injector Cam Roller, Small Cam. OEM # 3062096
	Both		<b>42-8939</b>	Rocker Roller Pin. OEM # 118939
	Injector Component			<b>87-7759</b>
<b>LINE 17</b>	<b>V/T785, V/T903, V/T903M, V8-265</b>			<b>V8 BORE - 5.50"/139.7mm</b>
Valve	Exh		<b>10-702</b>	1.870 Head Dia. OEM # 138887
	Int		<b>10-703</b>	1.870 Head Dia. OEM # 216707
Valve Seat Insert	Int		<b>20-2000-14</b>	1-5/8 I.D. 2.000 O.D. 5/16 Depth. OE# 212217. 45 Degree Starter Angle Must Be Machined to 30 Degree
	Both		<b>22-2003-1</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 3107759 w/ Std. O.D.
	Both		<b>22-2003-1N</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 127930 w/ Std. O.D. Non-Magnetic For Turbo and High Heat Applications
	Both		<b>22-2003-3N</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 127930 w/ Std. O.D. Non-Magnetic For Turbo and High Heat Applications
	Both		<b>22-2006-1</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. +5, 10, 20, 30, 40 O/S Avail.
	Both		<b>22-2006-1N</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. Non-Magnetic For Turbo & High Heat Applications. +5, 10, 20, 30, 40 O/S Avail.
	Both		<b>22-2006-3N</b>	1-11/16 I.D. 2.006 O.D. 0.234 Depth, +10, +20 & +30 O/S Avail.
	Guide	Both		<b>30-1941</b>
Spring	Both		<b>32-1062</b>	2.350 Free Length. Outer. OEM # 146731
	Both		<b>32-1063</b>	2.090 Free Length. Inner. OEM # 146732
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. OEM # 127554
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 17</b>	<b>V/T785, V/T903, V/T903M, V8-265</b>			<b>V8 BORE - 5.50"/139.7mm</b>
Rocker Component			<b>42-3558</b>	Rocker Bridge Guide. OEM # 123558
<b>LINE 18</b>	<b>NH, NT Series 855 C.I. GTA855</b>			<b>L6 BORE - 5.50"/139.7mm</b>
Valve	Both		<b>10-1721S</b>	1.875 Head Dia. Natural Gas. Stellite Face 20 Degree Seat. Also Replaces 15 Deg. OEM # 3226068
	Both		<b>10-602</b>	1.870 Head Dia. Bi-Metallic. OEM # 3040830 w/ Letter "N" In Head
	Both		<b>10-602S</b>	1.870 Head Dia. Bi-Metallic w/ Stellite. OEM # 145701 w/ Letter "S" In Head
	Int		<b>10-603</b>	1.870 Head Dia. Mono-metallic. OEM # 135957
Valve Seat Insert	Both		<b>22-2003-1</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 3107759 w/ Std. O.D.
	Both		<b>22-2003-1N</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 127930 w/ Std. O.D. Non-Magnetic For Turbo and High Heat. Stellite Also Avail. Replace N w/ C Suffix
	Both		<b>22-2003-6N</b>	1.625 I.D. 2.003 O.D. 0.280 Depth. Nickel Alloy Version of 22-2006-6S. Can Be Used w/ 15 And 20 Degree Valves
	Both		<b>22-2006-1</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. +3 For Aftermarket Press Fit. +5, 10, 20, 30, 40 O/S Avail.
	Both		<b>22-2006-1N</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. Non-Magnetic For Turbo & High Heat Applications. +3 For Aftermarket Press Fit. +5, 10, 20, 30, 40 O/S Avail.
	Both		<b>22-2006-5</b>	1.690 I.D. 2.006 O.D. 0.214 Depth, 1988 Big Cam IV, OEM #'s 3054590 & 3054600, +5, +10, +20 & +30 O/S Avail.
	Both		<b>22-2006-6S</b>	1.630 I.D. 2.006 O.D. 0.280 Depth, OEM #'s 80610016 & 90210014, Stellite # 3 Matl., Can Be Used w/ Natural Gas 15 & 20 Deg. Valves
Guide	Both		<b>30-1942</b>	3.400 OAL. w/ Sharp Edge (Otherwise Same As 30-7994). OEM # 3006456
	Both		<b>30-6452</b>	3.195 OAL. Machined For Seal. OEM # 174214
	Both		<b>30-7264</b>	Same as 30-1942+10 O.D. 30-7265 Same as 30-1942+15 O.D.
	Both		<b>30-7990</b>	3.400 OAL. Natural Gas Eng. OEM # 3006456.
	Both		<b>30-7994</b>	3.400 OAL. w/o Sharp Edge (Otherwise Same As 30-1942). OEM # 3050369. Can Be Used For OEM # 3006456. +2 O/S Avail.
	Exh		<b>30-1941</b>	3.010 OAL. OEM # 138937
	Int		<b>30-3158</b>	3.167 OAL. Natl. Gas. OEM # 3394115
Spring	Both		<b>32-04015</b>	2.335 OAL. Natl. Gas. OEM # 4062872, 4957806, 90210012
	Both		<b>32-1014</b>	2.685 Free Length. OEM # 211999
	Both		<b>32-1332</b>	2.635 Free Length. OEM # 3035996, 3081212
	Exh		<b>32-1215</b>	2.920 Free Length. w/ Exhaust Brake. OEM # 178869
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. OEM # 127554
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring. OEM # 156641
Rocker Component			<b>42-3558</b>	Rocker Bridge Guide. OEM # 123558
			<b>42-7544</b>	Injector Roller Pin, Small Cam. OEM # 3017544
			<b>42-8904</b>	Rocker Shaft, OEM # 3038904
			<b>42-8939</b>	Rocker Roller Pin. OEM # 118939
			<b>42-9260</b>	Valve Cam Roller, Small Cam. OEM # 9260-1
	Both		<b>42-3330</b>	Injector Roller Pin, Big Cam. OEM # 3013330
	Both		<b>42-3331</b>	Valve Roller Pin. OEM # 3013331
	Both		<b>42-6933</b>	Valve Cam Roller, Big Cam. OEM # 3036933
	Both		<b>42-6934</b>	Injector Cam Roller, Big Cam. OEM # 3036934
	Both		<b>42-7096</b>	Injector Cam Roller, Small Cam. OEM # 3062096
Push Rod			<b>74-6430</b>	OEM # 3046430
Injector Component			<b>87-0486</b>	Injector Tube, Thin Nose. OEM # 3070486, 3011934

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 18</b>	<b>NH, NT Series 855 C.I. GTA855</b>			<b>L6 BORE - 5.50"/139.7mm</b>
Injector Component			<b>87-0486K</b>	Injector Tube 87-0486 and 87-7759 Ring Kit
			<b>87-1147</b>	Injector Tube, Thick Nose. OEM # 3011935, 3071147
			<b>87-7759</b>	Injector O-Ring. OEM # 3007759
<b>LINE 19</b>	<b>N-14 855 C.I.</b>			<b>L6 BORE - 5.50"/139.7mm</b>
Valve	Exh		<b>10-1659S</b>	1.870 Head Dia. 30 Degree Seat. Select. OEM # 3070473, 3078399, 3069672, 3803770, 3803726
	Exh		<b>10-1847S</b>	1.870 Head Dia. Plus. 45 Degree Seat. OEM # 3083991, 3084980, 3800891
	Int		<b>10-1660</b>	1.870 Head Dia. 30 Degree Seat. OEM # 3803360, 3068519
	Int		<b>10-1756</b>	1.870 Head Dia. Plus & Select. 20 Degree Seat. OEM # 3084045, 3803854
Valve Seat Insert	Exh		<b>22-1953-2S</b>	1.640 I.D. 1.9535 O.D. 0.215 Depth. 45 Degree. Select And Plus. OEM # 3076515, 3084041. Can Be Used w/ 30 And 45 Degree Valves
	Exh		<b>22-2006-7S</b>	1.690 I.D. 2.006 O.D. 0.215 Depth. 30 Degree. OEM # 3069692
	Int		<b>22-1953-3</b>	1.640 I.D. 1.9535 O.D. 0.195 Depth. 20 Degree. Select And Plus. OEM # 3084020
	Int		<b>22-2006-5</b>	1.690 I.D. 2.006 O.D. 0.214 Depth. 30 Degree. OEM # 3054590, 3054600. +5, 10, 20, 30 O/S Avail.
Guide	Both		<b>30-8134</b>	3.400 OAL. Std. O.D. OEM # 3064312
	Both		<b>30-8136</b>	Same As 30-8134 +.010 O.D. OEM # 3072321
Spring	Both		<b>32-04004</b>	3.420 Free Length.. OEM # 3070460.
Keeper	Both		<b>34-05354</b>	1 Round Groove. OEM# 3070484, 3072369
Valve Stem Seal	Both		<b>38-4281-45</b>	Viton. Top Hat. OEM # 3064281
Rocker Component			<b>42-3331</b>	Valve Lever Pin. 91N14. OEM # 3013331
			<b>42-5237</b>	Valve Lever Roller, 94N14. OEM # 3865237
			<b>42-5956</b>	Injector Lever Roller. 91N14. OEM # 4025956
			<b>42-6388</b>	Injector Lever Pin, 94N14. OEM # 3166388
			<b>42-6428</b>	Valve Lever Pin, 94N14. OEM # 3166428
			<b>42-6933</b>	Valve Lever Roller. 91N14. OEM # 3036933
			<b>42-7423</b>	Injector Lever Roller. 94N14. OEM # 3161423
			<b>42-7922</b>	Injector Lever Pin. 91N14. OEM # 3412922
Injector Component			<b>87-0486</b>	Injector Tube, Thin Nose. OEM # 3070486, 3011934
			<b>87-0486K</b>	Injector Tube 87-0486 and 87-7759 Ring Kit
			<b>87-1147</b>	Injector Tube, Thick Nose. OEM # 3011935, 3071147
			<b>87-6702</b>	Injector Tube. OEM # 3406702
			<b>87-7759</b>	Injector O-Ring. OEM # 3007759

<b>LINE 20</b>	<b>12-15.0L S/DOHC 24V ISX, QSX, ISZ, QSZ Turbo</b>			<b>L6 BORE - 5.40"/137mm</b>
Valve	Exh		<b>10-13309S</b>	1.790 Head Dia. Inconel. OEM # 3686661
	Exh		<b>10-2263S</b>	1.790 Head Dia. 45 Degree. OEM#s 4101454, 3680759
	Int		<b>10-13308</b>	1.870 Head Dia. Inconel. OEM # 3685996
	Int		<b>10-2262</b>	1.870 Head Dia. 20 Degree. OEM#s 3680760, 4965868, 4059326
Valve Seat Insert	Exh		<b>22-1874-2</b>	1.555T I.D. 1.874 O.D. 45 Degree. OEM # 3683349, 3679537
	Int		<b>22-1953-3</b>	1.640T I.D. 1.953 O.D. 20 Degree. OEM# 3104445, 3681071
Guide	Both		<b>30-3061</b>	4.106 OAL. OEM# 4026657
Spring	Both		<b>32-04050</b>	3.886 Free Length. OEM # 3679551, 4965891
Keeper	Both		<b>34-04644</b>	1 Round Groove. OEM # 3680883
Rotator / Retainer	Both		<b>37-2884</b>	Retainer. OEM # 3680884



# CUMMINS

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>12-15.0L S/DOHC 24V ISX, QSX, ISZ, QSZ Turbo</b>			<b>L6 BORE - 5.40"/137mm</b>
Valve Stem Seal	Both		<b>38-2008-55</b>	Viton. Metal Clad. 0.511 Height. OEM # 4312008
	Both		<b>38-6791-45</b>	Viton. Metal Clad. 0.472 Height. OEM # 4026791, 4026660.
Injector Component			<b>87-0873</b>	Injector Tube. OEM # 3680873, 3412352
			<b>87-0873K</b>	Injector Tube 87-0873 and Ring 85-8536 Kit
			<b>87-8536</b>	Injector O-Ring. OEM # 3678536
<b>LINE 21</b>	<b>NVH450, V1486, VT1486, VT600</b>			<b>V12 BORE - 5.125"/130.2mm</b>
Valve	Both		<b>10-326S</b>	1.745 Head Dia. Stellite Face. OEM #'s 70671 & 144911
Valve Seat Insert	Both		<b>22-1847-1</b>	1-9/16 I.D. 1.8465 O.D. 9/32 Depth. +5, 10, 20, 30 O/S Avail. OEM # 69965, Exc. Natural Gas
Guide	Both		<b>30-1969</b>	3.438 OAL. +3 O/S Avail. OEM # 66890.
Keeper	Both		<b>34-746</b>	2 Groove. Heat Treated. OEM # S-2037
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
<b>LINE 22</b>	<b>VT12/1710 Series</b>			<b>V12 BORE - 5.50"/139.7mm</b>
Valve	Both		<b>10-602S</b>	1.870 Head Dia. Bi-Metallic w/ Stellite. OEM # 145701 w/ Letter "S" In Head
Valve Seat Insert	Both		<b>22-2003-1</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 3107759 w/ Std. O.D.
	Both		<b>22-2003-1N</b>	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 127930 w/ Std. O.D. Non-Magnetic For Turbo and High Heat Applications
	Both		<b>22-2006-1</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. +5, 10, 20, 30, 40 O/S Avail.
	Both		<b>22-2006-1N</b>	1-11/16 I.D. 2.006 O.D. 9/32 Depth. Non-Magnetic For Turbo & High Heat Applications. +5, 10, 20, 30, 40 O/S Avail.
Guide	Both		<b>30-1942</b>	3.400 OAL. w/ Sharp Edge (Otherwise Same As 30-7994). OEM # 3006456
	Both		<b>30-7264</b>	Same As 30-1942+10 O.D. OEM # 3006457. 30-7265 Same As 30-1942+15 O.D. OEM # 3006458
	Both		<b>30-7990</b>	3.400 OAL. Natural Gas Eng. OEM # 3006456.
	Both		<b>30-7994</b>	3.400 OAL. w/o Sharp Edge (Otherwise Same As 30-1942). OEM # 3050369. Can Be Used For OEM # 3006456
Spring	Both		<b>32-1014</b>	2.685 Free Length. OEM # 211999
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. OEM # 127554
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring
Rocker Component			<b>42-3558</b>	Rocker Bridge Guide. OEM # 123558

# DETROIT DIESEL

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
53 Series 2V Head		2-6	1
53 Series 4V Head		2-8	2
71 Series 2V Head		2-6	3
220 C.I. Turbo (Bedford)		L4	4
71 Series 4V Head Detroit		4-16	5
8.2L (500 C.I.) Naturally Aspirated & Turbo		V8	6
60 Ser. 677, 775 C.I. Diesel 24V, 50 Ser. Natl Gas		L6	7
DD15, DD16 Ser. DOHC 24V	2009-14	L6	8
92 Series 4V Head		6-16	9
110 Series 2V Head		L6	10
149 Series		12-16	11

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>53 Series 2V Head</b>		<b>2-6</b>	<b>BORE - 3.875"/98.4mm</b>
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Valve	Exh		10-758	1.400 Head Dia. OEM # 5195948
Valve Seat Insert	Exh		22-1441-1	1-13/64T I.D. 1.441 O.D. 0.215 Depth, +10, +20, & +30 O/S Avail., OEM # 5116196
Guide	Exh		30-1832	2.500 OAL. OEM # 5119992ND
	Exh		30-1946	2.380 OAL. Cut For Seal +2, 5, 10, 20 O/S Avail. OEM # 5129919.
Keeper	Exh		34-614	Heat Treated. 1 Groove.
Valve Stem Seal	Exh		38-1053-75	All Teflon.
	Exh		38-1209-80	Metal Clad. Blue Viton. OEM # 8921209
	Exh		38-1209-80A	Black Viton Silver Metal. OE Style. # 8921209
Injector Component			87-4701	Injector O-Ring. OEM # 5104701, 5160037
			87-5606	Injector Tube, Thin Nose. OEM # 5199527, 8925606
			87-5981	Injector Tube, Thick Nose. OEM #8925981, 5150041
			87-5981K	Injector Tube 87-5981 and Ring 87-4701 Kit
			87-9293	Water Director. OEM # 5119293
Expansion Plug Kit			97-84SS	Stainless Steel Kit

<b>LINE 2</b>	<b>53 Series 4V Head</b>		<b>2-8</b>	<b>BORE - 3.875"/98.4mm</b>
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Valve	Exh		10-1018	1.090 Head Dia. Turbo. OEM # 5197176
	Exh		10-759	1.090 Head Dia. Non-Turbo. Oem # 5199323
Valve Seat Insert	Both		22-1161-1	0.910T I.D. 1.161 O.D. 0.222 Depth. Non-Magnetic. +10, 20, 30, 40, 53, 62 O/S Avail. OEM # 8921502
Guide	Exh		30-6254	2.360 OAL. Cut For Seal. +2, +3, +5, +10, +20 O/S Avail. OEM # 5131961
Spring	Both		32-1189	Lo-Lift Cam. 2.051 Free Length. OEM # 5147424
	Exh		32-939	Hi-Lift Cam. 2.101 Free Length. OEM # 5144019
Keeper	Exh		34-309	1 Groove. OEM # 5116341
Valve Stem Seal	Exh		38-1741-80	Metal Clad. Blue Viton. OEM # 8921741
	Exh		38-1741-80A	Black Viton. Silver Metal. OE Style # 8921741
Rocker Component			40-5267	Rocker Arm. LH. OEM # 5135267
			40-5268	Rocker Arm. RH. OEM # 5135268
			42-3813	Valve Roller And Pin Set. OEM # 8323813
			42-4439	Cam Follower Assembly. OEM # 8924439
	Both		42-3814	Cam Follower Roller Set. OEM # 8923814
Injector Component			87-4701	Injector O-Ring. OEM # 5104701, 5160037
			87-5606	Injector Tube, Thin Nose. OEM # 5199527, 8925606
			87-5981	Injector Tube, Thick Nose. OEM #8925981, 5150041

# DETROIT DIESEL

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 2</b>	<b>53 Series 4V Head</b>			<b>2-8 BORE - 3.875"/98.4mm</b>
Injector Component			<b>87-5981K</b>	Injector Tube 87-5981 and Ring 87-4701 Kit
			<b>87-9293</b>	Water Director. OEM # 5119293
Expansion Plug Kit			<b>97-84SS</b>	Stainless Steel Kit
<b>LINE 3</b>	<b>71 Series 2V Head</b>			<b>2-6 BORE - 4.125"/104.78mm</b>
Valve	Exh		<b>10-327</b>	1.584 Head Dia. Exc. H.O. OEM # 5193187
	Exh		<b>10-411</b>	1.584 Head Dia. H.O. OEM # 5193666
Valve Seat Insert	Exh		<b>22-1628-2</b>	1-11/32T I.D. 1.628 O.D. 1/4 Depth. +10, 20, 30, 40 O/S Avail., OEM # 5131096, 8927920
Guide	Exh		<b>30-1680</b>	3.250 OAL. +15 O/S Avail. OEM # 5120930
Spring	Exh		<b>32-454</b>	2.375 Free Length. OEM # 5150289
Keeper	Exh		<b>34-555</b>	1 Groove. Heat Treated. OEM # 8927953
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
Injector Component			<b>87-4701</b>	Injector O-Ring. OEM # 5104701, 5160037
			<b>87-5606</b>	Injector Tube, Thin Nose. OEM # 5199527, 8925606
			<b>87-5981</b>	Injector Tube, Thick Nose. OEM #8925981, 5150041
			<b>87-5981K</b>	Injector Tube 87-5981 and Ring 87-4701 Kit
Expansion Plug Kit			<b>97-85SS</b>	Stainless Steel Kit
<b>LINE 4</b>	<b>220 C.I. Turbo (Bedford)</b>			<b>L4 BORE - 4.06"/103.2</b>
Guide	Exh		<b>30-7564</b>	2.563 OAL. 0.3435 I.D. 0.6268 O.D.
	Int		<b>30-7563</b>	2.835 OAL. 0.3435 I.D. 0.6270 O.D.
<b>LINE 5</b>	<b>71 Series 4V Head Detroit</b>			<b>4-16 BORE - 4.125"/104.78mm</b>
Valve	Exh		<b>10-1429S</b>	1.180 Head Dia. Intercooled Off Highway Marine. OEM # 5149386
	Exh		<b>10-1500</b>	1.180 Head Dia. Naturally Aspirated & Turbo. OEM # 23500501
Valve Seat Insert	Both		<b>22-1262-1</b>	0.975T I.D. 1.262 O.D. 1/4 Depth, +10, +20, +30, +40, +53, & +62 O/S Avail., Use 1-5/16 Cutter, OEM # 5101101 Non-Magnetic
Guide	Exh	1957-63	<b>30-1832</b>	2.500 OAL. OEM # 5119992ND
	Exh	1964-UP	<b>30-1946</b>	2.380 OAL. Cut For Seal +2, 5, 10, 20 O/S Avail. OEM # 5129919.
Spring	Exh		<b>32-769</b>	1.970 Free Length. OEM # 5147347
Keeper	Exh		<b>34-614</b>	Heat Treated. OEM # 5111337.
Valve Stem Seal	Exh		<b>38-1209-80</b>	Metal Clad. Blue Viton. OEM # 8921209
	Exh		<b>38-1209-80A</b>	Black Viton Silver Metal. OE Style. # 8921209
Rocker Component			<b>40-8472</b>	Rocker Arm Assembly. LH. OEM # 518472
			<b>40-8475</b>	Rocker Arm Assembly. RH. OEM # 518475
			<b>42-3813</b>	Valve Roller And Pin Set. OEM # 8323813
			<b>42-3814</b>	Cam Follower Roller Set. Roller and Pin. OEM # 8923814
			<b>42-4439</b>	Cam Follower Assembly. OEM # 8924439
			<b>42-5714</b>	Rocker Shaft. OEM # 23500714, 5150322.
			<b>42-7564</b>	Valve Bridge Guide. OEM # 5117564
Push Rod	Both		<b>74-6858S</b>	Push Rod Spring, 5186858
Injector Component			<b>87-1332</b>	Water Director. OEM # 5111332
			<b>87-4701</b>	Injector O-Ring. OEM # 5104701, 5160037
			<b>87-5606</b>	Injector Tube. Thin Nose. OEM # 5199527, 8925606
			<b>87-5981</b>	Injector Tube. Thick Nose. OEM #8925981, 5150041
			<b>87-5981K</b>	Injector Tube 87-5981 and Ring 87-4701 Kit
Expansion Plug Kit			<b>97-85SS</b>	Stainless Steel Kit

# DETROIT DIESEL

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>8.2L (500 C.I.) Naturally Aspirated &amp; Turbo</b>			<b>V8 BORE - 4.25"/107.95mm</b>
Valve	Exh		10-1455	1.660 Head Dia. OEM # 23502067
	Int		10-1456	1.811 Head Dia. OEM # 23502068
Valve Seat Insert	Exh		20-1750-12	1.438T I.D. 1-3/4 O.D. 0.203 Depth. Repair Insert.
	Int		20-1937-12	1.578T I.D. 1-15/16 O.D. 0.203 Depth. Repair Insert
Guide	Both		30-7552	2.875 OAL. 0.564 O.D. Conversion Guide
Spring	Exh		32-1253-D	2.154 Free Length. OEM # 8927857
Keeper	Both		34-555	Heat Treated. 1 Groove.
Valve Stem Seal	Both		38-4800-80	Metal Clad. Blue Viton. OEM # 23500480
	Both		38-4800-80A	Black Viton and Silver Metal. OEStyle 23500480
Rocker Component	Both		42-3814	Cam Follower Roller Set. OEM # 8923814
Injector Component			87-0390	Injector O-Ring. OEM # 8920390
			87-9724	Injector Tube. OEM # 5149724

<b>LINE 7</b>	<b>60 Ser. 677, 775 C.I. Diesel 24V, 50 Ser. Natl Gas</b>			<b>L6 BORE - 5.120"/129.94mm</b>
Valve	Exh		10-13001	1.556 Head Dia. From '03 w/ EGR. 30 Degree. Higher-Temp Head Matl. OEM # 23529596
	Exh		10-1566	1.556 Head Dia. w/o EGR. 30 Degree. OEM # 23506350.
	Exh		10-23501577	Kit Incl. Exh. Valve, 2 Keepers, Rotator, Stem Seal
	Exh		10-3192	1.534 Head Dia. 20 Degree. For Natl. Gas. OEM # 23520148, 23519093
	Int		10-13000	1.732 Head Dia. From '03 w/ EGR. 30 Degree. OEM # 23529629
	Int		10-1567	1.732 Head Dia. w/o EGR. 30 Degree. OEM # 23501576
	Int		10-23501576	Kit Incl. Int. Valve, 2 Keepers, Rotator, Stem Seal
	Int		10-3193	1.732 Head Dia. 20 Degree. For Natl. Gas. OEM # 23520149, 23518745
	Valve Seat Insert	Exh		22-1628-3
Exh			22-1628-3D	1.357 I.D. 1.6285 O.D. 0.270 Alternate Depth. +10, 20, 30 O/S OEM # 8929126
Exh			22-1628-4	1.309T I.D. 1.6285 O.D. 0.237 Depth. 20 Degree. Non Magnetic. For Natl. Gas
Int			22-1819-1	1.571 I.D. 1.8195 O.D. 0.283 Depth. Avail. In Std., +10, +20, +30 O/S OEM # 8929127
Int			22-1819-2	1.500T I.D. 1.8195 O.D. 0.268 Depth. 20 Degree. Non-Magnetic. For Natl. Gas
Guide		Both		30-8591
Spring	Both		32-09415	2.866 Free Length. OEM # 8929415
	Exh		32-04054	3.262 Free Length. OEM # 23535122
Keeper	Both		34-09573	1 Round Groove. OEM # 8929573
Rotator / Retainer	Both		37-09105	Rotator. OEM # 8929105
Valve Stem Seal	Both		38-502-55	Viton. Metal Clad. OEM # 8929072, 23523930
Injector Component			87-1028	Injector Tube. Copper. Thick Nose. Shorter and Wider Than 87-1580.
			87-1580	Injector Tube. Copper. OEM # 23501580, 8929078
			87-1580K	Injector Tube 87-1580 and Ring 87-5470 Kit
		2004-	87-3147	O-Ring. Use w/ 87-3148. OEM # 23533147
		2004-	87-3148	Injector Tube. Stainless Steel w/ Threaded Nose. OEM # 23533148
			87-5470	Injector O-Ring. Use w/ 87-1580. OEM # 23515470

<b>LINE 8</b>	<b>DD15, DD16 Ser. DOHC 24V</b>			<b>2009-14 L6 BORE -</b>
Valve	Exh		10-3221S	1.774 Head Dia. OEM # 4730500127

# DETROIT DIESEL

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>DD15, DD16 Ser. DOHC 24V</b>		<b>2009-14 L6</b>	<b>BORE -</b>
Valve	Int		10-3220	1.856 Head Dia. OEM # 4730500126
Guide	Both		30-3287	
Valve Stem Seal	Both		38-6134-55	0.372 Nom. Stem
Injector Component	Both		87-3400	Injector Tube
<b>LINE 9</b>	<b>92 Series 4V Head</b>		<b>6-16</b>	<b>BORE - 4.84"/122.94mm</b>
Valve	Exh		10-1366	1.380 Head Dia. Turbo & Non-Turbo. OEM # 5149771
Valve Seat Insert	Exh		22-1442-1	1-9/64T I.D. 1.442 O.D. 1/4 Depth, +5, +10, +20, +30, +40, & +63 O/S Avail., OEM # 5148490 Non-Magnetic
Guide	Exh		30-1946	2.380 OAL. Cut For Seal +2, 5, 10, 20 O/S Avail. OEM # 5129919.
Spring	Exh		32-1333	2.000 Free Length. OEM # 8927794
Keeper	Exh		34-614	Heat Treated. OEM # 5111337.
Valve Stem Seal	Exh		38-1209-80	Metal Clad. Blue Viton. OEM # 8921209
	Exh		38-1209-80A	Black Viton Silver Metal. OE Style. # 8921209
Rocker Component			40-8472	Rocker Arm Assembly. LH. OEM # 518472
			40-8475	Rocker Arm Assembly. RH. OEM # 518475
			42-4439	Cam Follower Assembly. OEM # 8924439
			42-5714	Rocker Shaft. OEM # 23500714, 5150322.
	Both		42-3814	Cam Follower Roller Set. OEM # 8923814
Injector Component			87-2388	Water Director. OEM # 8922388
			87-4701	Injector O-Ring. OEM # 5104701, 5160037
			87-5606	Injector Tube, Thin Nose. OEM # 5199527, 8925606
			87-5981	Injector Tube, Thick Nose. OEM # 8925981, 5150041
			87-5981K	Injector Tube 87-5981 and Ring 87-4701 Kit
Expansion Plug Kit			97-86SS	Stainless Steel Kit
<b>LINE 10</b>	<b>110 Series 2V Head</b>		<b>L6</b>	<b>BORE - 5.00"/127mm</b>
Keeper	Exh		34-613	1 Groove. Heat Treated.
Valve Stem Seal	Both		38-1068-70	Teflon And Rubber. Machine Guide To 0.562 O.D.
<b>LINE 11</b>	<b>149 Series</b>		<b>12-16</b>	<b>BORE - 5.750"/145.9mm</b>
Valve	Exh		10-1530	1.798 Head Dia. 4 Valve OEM # 8928729
Valve Seat Insert	Both		22-1899-1	1-17/32T I.D. 1.8985 O.D. 0.275 Depth. +10, +20, & +30 O/S Avail., OEM # 5139982
Guide	Exh		30-6546	3.150 OAL. OEM # 5138653
	Exh		30-8133	3.150 OAL. 0.3755 I.D. Cut For 0.0600 Dia. Seal
	Exh		30-8431	2.940 OAL. Non-Knurled 0.574" Dia. Seal End. OEM # 23515391
Spring	Both		32-04003	OEM # 23512120
Keeper	Both		34-05203	OEM # 8925203 Heat Treated
Injector Component			87-9528	Injector Tube Kit. OEM # 5199528

# DEUTZ

# TRACTOR

ENGINE	YEAR	CYL.	LINE NO.
1.8L to 5.6L F2-6L912		L2-6	1

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>				
1.8L to 5.6L F2-6L912				L2-6 BORE - 3.937"/100mm
Guide	Both		30-3205	2.283 OAL. OEM # 2232528

# FORD

# DIESEL & INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
134 C.I. (2.2L) (E, JE)	1953-78	L4	1
172, 192 C.I. Gas	1955-78	L4	2
172, 192 C.I. Diesel	1955-78	L4	3
200 (3.3L), 200GP (3.3L) 12V	1968-80	L6	4
223 C.I. (3.7L) 12V		L6	5
240 C.I. (3.9L) (C5PF) 12V	1965-73	L6	6
262 C.I. (4.3L) (C1PG) 12V		L6	7
292 C.I. (4.8L) B8PK, K292		V8	8
300 C.I. (4.9L) (C5PG, CSG649) 12V	1965-96	L6	9
330 C.I. (5.4L) Medium Duty	1964-69	V8	10
330 C.I. (5.4L)	1970-76	V8	11
330 Heavy Duty, 361 C.I.	1964-79	V8	12
332 C.I. (5.4L) B6PL, L		V8	13
363 C.I. (6.0L) 32V Vin P Turbo Diesel Powerstroke	2003-10	V8	14
6.4L OHV 32V Diesel (Navistar) Vin R	2008-10	V8	15
391 C.I. (6.4L) (C4PC)	1964-78	V8	16
401, 477, 534 C.I.		V8	17
401 C.I. (6.6L) OHV Turbo Diesel Brazil 12V Vin P	1986-94	V8	18
6651cc (6.7L) OHV 32V Powerstroke Diesel	2010-14	V8	19
420 C.I. (6.9L) Navistar Diesel 16V Vin 1	1983-87	V8	20
428 C.I. (7.0L)		V8	21
7.3L 16V Diesel Vin CFKM Powerstroke Incl. Dir. Inj.	1988-05	V8	22
460 C.I. (7.5L)	1976-94	V8	23
474 C.I. (7.8L) Turbo Diesel Brazil 12V	1987-94	L6	24

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>134 C.I. (2.2L) (E, JE)</b>		<b>1953-78 L4</b>	<b>BORE - 3.437"/87.3mm</b>
Valve	Exh		10-348	1.510 Head Dia. Rototype
	Int		10-376	1.647 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1625-11+006	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth
	Int		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		30-1726	2.470 OAL. OEM # EAF-6510-C
Spring	Int		32-611	2.090 Free Length
Keeper	Exh		34-165	Tapered Groove. Heat Treated
	Int		34-555	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-522-25	Polyacrylic. Shallow Umbrella.
<b>LINE 2</b>	<b>172, 192 C.I. Gas</b>		<b>1955-78 L4</b>	<b>BORE - 3.9"/99.06mm</b>
Valve	Exh		10-348	1.510 Head Dia.
	Int		10-376	1.647 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1625-11+006	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth
	Int		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		30-1726	2.470 OAL. OEM # EAF-6510-C
Spring	Both		32-611	2.090 Free Length
Keeper	Exh		34-165	Tapered Groove. Heat Treated
	Int		34-555	1 Square Groove. Heat Treated.
<b>LINE 3</b>	<b>172, 192 C.I. Diesel</b>		<b>1955-78 L4</b>	<b>BORE - 3.9"/99.06mm</b>
Valve	Exh		10-608	1.510 Head Dia.
	Int		10-609	1.647 Head Dia.
Valve Seat Insert	Exh		20-1625-11+006	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>172, 192 C.I. Diesel</b>		<b>1955-78 L4</b>	<b>BORE - 3.9"/99.06mm</b>
Valve Seat Insert	Int		<b>20-1812-5</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Exh		<b>30-1726</b>	2.470 OAL. OEM # EAF-6510-C
	Int		<b>30-1966</b>	2.938 OAL. OEM # 0311411
Spring	Both		<b>32-611</b>	2.090 Free Length
Keeper	Exh		<b>34-555</b>	1 Square Groove. Heat Treated.
	Int		<b>34-165</b>	Tapered Groove. Heat Treated
<b>LINE 4</b>	<b>200 (3.3L), 200GP (3.3L) 12V</b>		<b>1968-80 L6</b>	<b>BORE - 3.68"/93.4mm</b>
Valve	Exh		<b>10-1266</b>	1.390 Head Dia. +3, +15 O/S Stem May Be Avail.
	Int		<b>10-1268</b>	1.651 Head Dia. +15 O/S Stem May Be Avail.
	Int		<b>10-1357</b>	1.751 Head Dia.
Valve Seat Insert	Exh		<b>20-1437-2</b>	1-7/32 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.649 Valve Head Dia.
	Int		<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 3/16 Depth. w/ 1.753 Head Dia.
Guide	Both		<b>30-9869</b>	1.875 OAL. 0.439 O.D. Spiral I.D. 30-6869 Plain I.D. Also Avail.
	Both		<b>30-9977</b>	2.281 OAL. 0.502 O.D. Spiral I.D. Hardened H Suffix and 30-6977 Plain I.D. Also Avail.
Spring	Both		<b>32-778</b>	1.828 Free Length Exc. 1968-69
Keeper	Both		<b>34-614</b>	Heat Treated. 1 Groove.
Lifter	Both	1968-80	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both	1968-80	<b>38-1062-70</b>	Teflon And Rubber. 1 Ring
Expansion Plug Kit		1968-80	<b>97-14</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 5</b>	<b>223 C.I. (3.7L) 12V</b>		<b>L6</b>	<b>BORE - 3.62"/92mm</b>
Valve	Exh		<b>10-375</b>	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int		<b>10-373</b>	1.780 Head Dia.
Valve Seat Insert	Int		<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Exh		<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Also Avail. In Nickel (-N) Matl.
Guide	Both		<b>30-9105</b>	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
Spring	Both		<b>32-611</b>	2.090 Free Length
Keeper	Both		<b>34-555</b>	1 Square Groove. Heat Treated.
Valve Stem Seal	Both		<b>38-951-25</b>	Polyacrylic. 2-Ring. w/ 0.341 Stem Dia.
Expansion Plug Kit			<b>97-15</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 6</b>	<b>240 C.I. (3.9L) (C5PF) 12V</b>		<b>1965-73 L6</b>	<b>BORE - 4.00"/101.6mm</b>
Valve	Exh	1965-73	<b>10-1177S</b>	1.560 Head Dia. Stellite., +15 O/S Stem Avail.
	Exh	1965-73	<b>10-1358</b>	1.560 Head Dia. +3, +15 O/S Stem May Be Avail.
	Exh	1965-73	<b>10-965S</b>	1.560 Head Dia. Stellite. +15 O/S Stem Avail.
	Int	1965-73	<b>10-1120</b>	1.780 Head Dia. H.D. +3, +15 O/S Stem May Be Avail.
	Int	1965-73	<b>10-963</b>	1.781 Head Dia. +3 & +15 O/S Stem Avail.
Valve Seat Insert	Exh	1965-73	<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int	1965-73	<b>20-1812-3</b>	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth. w/ 1.720 Valve Head Dia.
Guide	Exh	1965-73	<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1965-73	<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.
Spring	Both	1965-73	<b>32-807</b>	1.990 Free Length. Use w/o Rotator
	Both	1965-73	<b>32-812</b>	1.875 Free Length. Use w/ Rotator
Keeper	Both	1965-73	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1965-73	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>240 C.I. (3.9L) (C5PF) 12V</b>			<b>1965-73 L6 BORE - 4.00"/101.6mm</b>
Rotator / Retainer		1965-73	37-6514	Rotator. OEM # D9TZ6514A
Valve Stem Seal	Both	1965-73	38-911-25	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
	Both	1965-73	38-925-25	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
Rocker Component		1965-73	40-2876	Rocker Arm. Cast
Rocker Kit		1965-73	41-2600	1 40-2876, 1 42-1771 Smooth Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1968-69	42-2934	Rocker Stud. 3/8-24 x 2.600
Push Rod		1965-73	74-6306	10.136 Length
Expansion Plug Kit		1965-73	97-16	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 7</b>	<b>262 C.I. (4.3L) (C1PG) 12V</b>			<b>L6 BORE - 3.70"/94.4mm</b>
Valve Seat Insert	Int		20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
	Exh		22-1630-1	1.335 I.D. 1.630 O.D. 0.312 Depth. Also Avail. In Nickel (-N) Matl.
Guide	Exh		30-9298	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int		30-9964	2.250 OAL. Spiral I.D.
Expansion Plug Kit			97-15	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 8</b>	<b>292 C.I. (4.8L) B8PK, K292</b>			<b>V8 BORE - 3.75"/95.2mm</b>
Valve	Exh		10-375	1.510 Head Dia. +15 O/S Stem May Be Avail.
	Int		10-376	1.647 Head Dia. +15 O/S Stem May Be Avail.
	Int		10-494	1.925 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1562-2	1-5/16T I.D. 1-9/16 O.D. 1/4 Depth.
	Int		20-1750-3	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth.
	Int		20-2000-1	1-3/4 I.D. 2.000 O.D. 7/32 Depth. +20 O/S, Nickel Matl. (-N) Also Avail.
Guide	Exh		30-9105	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Int		30-9606	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both		32-611	2.090 Free Length
Keeper	Both		34-555	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-1045-70	Teflon And Rubber.
Expansion Plug Kit			97-20	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 9</b>	<b>300 C.I. (4.9L) (C5PG, CSG649) 12V</b>			<b>1965-96 L6 BORE - 4.00"/101.6mm</b>
Valve	Exh	1965-83	10-1177S	1.560 Head Dia. 4.810 OAL. Stellite And Chrome Plated. +15 O/S Stem Avail.
	Exh	1965-83	10-1358	1.560 Head Dia. 4.810 OAL. To 1983. +3, +15 O/S Stem May Be Avail.
	Exh	1984-96	10-1504S	1.560 Head Dia. 4.750 OAL. Stellite And Chrome Plated. 1984-96.
	Exh	1965-83	10-965S	1.560 Head Dia. 4.810 OAL. Stellite Faced To '83, No Chrome. +15 O/S Stem Avail.
	Int	1965-96	10-1120	1.780 Head Dia. 4.810 OAL. 1965-83 HD, 1984 To Mid 1996 All. Chrome Plated. +3, +15 O/S Stem May Be Avail.
	Int	1996-96	10-1875	1.780 Head Dia. 4.750 OAL. Chrome Plated. From Mid-96
	Int	1965-83	10-963	1.781 Head Dia. 4.810 OAL. No Chrome. +3 & +15 O/S Stem Avail.
Valve Seat Insert	Exh	1965-76	20-1687-4N	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. OEM Replacement
	Exh	1965-76	20-1687-5N	1-3/8 I.D. 1-11/16 O.D. 7/32 Depth, w/o OEM Replacement
	Int	1965-76	20-1812-3	1-1/2T I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Exh	1965-96	30-9607	2.250 OAL. Spiral 0.344 I.D. 30-5607 Plain I.D. Also Avail.
	Int	1965-96	30-9867	2.125 OAL. Spiral 0.344 I.D. 30-6867 Plain I.D. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>300 C.I. (4.9L) (C5PG, CSG649) 12V</b>		<b>1965-96 L6</b>	<b>BORE - 4.00"/101.6mm</b>
Spring	Both	1965-96	<b>32-807</b>	1.990 Free Length. Use w/o Rotator
	Both	1965-96	<b>32-812</b>	1.875 Free Length. Use w/ Rotator
Keeper	Both	1965-96	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1965-94	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rotator / Retainer	Both	1965-96	<b>37-6514</b>	Rotator. OEM # D9TZ6514A
Valve Stem Seal	Both		<b>38-253-45</b>	Viton. Umbrella.
	Both		<b>38-259-35</b>	Glass Filled Nylon. Umbrella.
	Both		<b>38-911-25</b>	Polyacrylic. Umbrella. -15 Nitrile Matl. Also Avail.
	Exh		<b>38-937-15</b>	Nitrile. Ring And Band.
Rocker Component		1965-96	<b>40-2876</b>	Rocker Arm. Cast
Rocker Kit		1965-96	<b>41-2600</b>	1 40-2876, 1 42-1771 Smooth Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
Rocker Component		1965-96	<b>42-2934</b>	Rocker Stud. 3/8-24 x 2.600
Push Rod			<b>74-5312</b>	9.590 Length
		1965-96	<b>74-6306</b>	10.136 Length
Expansion Plug Kit		1965-96	<b>97-117</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 10</b>	<b>330 C.I. (5.4L) Medium Duty</b>		<b>1964-69 V8</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh		<b>10-1332</b>	1.508 Head Dia. +15 O/S Stem Avail.
	Int		<b>10-949</b>	1.753 Head Dia. +15 O/S Stem Avail.
Valve Seat Insert	Exh		<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Int		<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh		<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. OEM # C4TZ-6057A & D1TZ-6057A, +5, 10, 20, 30, 40 O/S Avail.
	Int		<b>22-1815-1</b>	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
Guide	Exh		<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int		<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both		<b>32-677-D</b>	2.260 Free Length
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1964-69	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both		<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component			<b>40-2859</b>	Rocker Arm. Cast
		1964-69	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1964-69	<b>74-5311</b>	9.620 Length
		1964-69	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1964-69	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 11</b>	<b>330 C.I. (5.4L)</b>		<b>1970-76 V8</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh		<b>10-1217S</b>	1.508 Head Dia. Stellite Faced
	Int		<b>10-949</b>	1.753 Head Dia. +15 O/S Stem Avail.
Valve Seat Insert	Exh		<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Int		<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh		<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. OEM # C4TZ-6057A & D1TZ-6057A, +5, 10, 20, 30, 40 O/S Avail.
	Int		<b>22-1815-1</b>	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
Guide	Exh		<b>30-9298</b>	2.375 OAL. 0.373 Spiral I.D. 30-7298 Plain I.D. Also Avail.
	Int		<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>330 C.I. (5.4L)</b>			<b>1970-76 V8</b> <b>BORE - 3.875"/98.4mm</b>
Spring	Both		<b>32-677-D</b>	2.260 Free Length. w/ Damper
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1970-76	<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both		<b>38-905-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component			<b>40-2859</b>	Rocker Arm. Cast
		1970-76	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1970-76	<b>74-5312</b>	9.590 Length
Expansion Plug Kit			<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 12</b>	<b>330 Heavy Duty, 361 C.I.</b>			<b>1964-79 V8</b> <b>BORE - 3.875"/98.4mm</b>
Valve	Exh	1964-79	<b>10-917</b>	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int		<b>10-1057S</b>	1.753 Head Dia. Stellite. 10-1057 Non-Stellite Avail.
Valve Seat Insert	Exh		<b>20-1687-4</b>	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter.
	Int		<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh		<b>22-1630-1</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. OEM # C4TZ-6057A & D1TZ-6057A, +5, 10, 20, 30, 40 O/S Avail.
Guide	Int		<b>22-1815-1</b>	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
	Exh		<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
Spring	Int		<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
	Both		<b>32-798</b>	2.000 Free Length.
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both	1964-79	<b>36-2083</b>	Hydraulic
Rocker Component			<b>40-2859</b>	Rocker Arm. Cast
		1964-79	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1964-69	<b>74-5311</b>	9.620 Length
		1964-76	<b>74-5312</b>	9.590 Length
Expansion Plug Kit			<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 13</b>	<b>332 C.I. (5.4L) B6PL, L</b>			<b>V8</b> <b>BORE - 3.80"/96.5mm</b>
Valve Seat Insert	Int		<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
	Exh		<b>22-1630-1N</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
Guide	Exh.	1956-67	<b>30-9119</b>	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.
	Int	1958-67	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Int	1956-57	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both		<b>32-611</b>	2.090 Free Length
Keeper	Both		<b>34-555</b>	1 Square Groove. Heat Treated
Expansion Plug Kit			<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 14</b>	<b>363 C.I. (6.0L) 32V Vin P Turbo Diesel Powerstroke</b>			<b>2003-10 V8</b> <b>BORE - 3.74"/94.9mm</b>
Valve	Exh	2003-10	<b>10-2180</b>	1.102 Head Dia.
	Int	2003-10	<b>10-2179</b>	1.339 Head Dia.
Valve Seat Insert	Int	2003-10	<b>20-1375-2</b>	1.125 I.D. 1.3795 Exact O.D. 0.250 Depth. May Need Machining
	Exh	2003-10	<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth. May Need Machining
	Exh	2003-10	<b>22-1161-1+030</b>	0.910T I.D. 1.191 O.D. 0.222 Depth. May Need Machining. +10, 20, 30, 40, 50, 63 Avail.
	Exh	2003-10	<b>22-1221-2N</b>	0.906 I.D. 1.221 O.D. 0.335 Depth. Non-Magnetic Nickel Matl.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 14</b>	<b>363 C.I. (6.0L) 32V Vin P Turbo Diesel Powerstroke</b>		<b>2003-10 V8</b>	<b>BORE - 3.74"/94.9mm</b>
Valve Seat Insert	Exh	2003-10	22-1260-1N	0.945 I.D. 1.2598 O.D. 0.335 Depth. May Need Machining. Non-Magnetic Nickel
	Int	2003-10	22-1375-1	1.100 I.D. 1.375 O.D. 0.227 Depth. +10 O/S Avail.
	Int	2003-10	22-1375-2N	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail.
Guide	Both	2003-10	30-3055	2.331 OAL. 0.2765 I.D. +2, 5 O/S Avail.
Spring	Both	2003-10	32-04040	2.076 Free Length
Keeper	Both	2003-10	34-5009	1 Round Groove
Lifter	Both	2003-10	36-2104	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both	2003-10	38-160-55	Viton. Top Hat.
Performance Spring	Both	2003-10	52-4040	2.170 Free Length. 84 @ 1.88. 230 @ 1.44
Retainer	Both	2003-10	55-6328	Retainer. 0.912 O.D.
Push Rod	Both	2003-10	74-6662	9.795 Length. OEM # 8C3Z6565B
Injector Component	Both	2003-10	87-8320	Injector Tube. Stainless. OEM# 3C3Z-9F538-AA
Expansion Plug Kit		2003-10	97-300SS	Stainless Steel
<b>LINE 15</b>	<b>6.4L OHV 32V Diesel (Navistar) Vin R</b>		<b>2008-10 V8</b>	<b>BORE - 98mm/3.86"</b>
Valve	Exh	2008-10	10-13183	1.161 Head Dia. 0.2738 Stem
	Int	2008-10	10-13182	1.339 Head Dia. 0.2738 Stem
Valve Seat Insert	Int	2008-10	20-1375-2	1.125 I.D. 1.3795 Exact O.D. 0.250 Depth. May Need Machining. -N Suffix Nont Magnetic Also Avail.
	Exh	2008-10	21-1187-52	0.934T I.D. 1-3/16 O.D. 0.257 Depth. May Need Machining
	Exh	2008-10	22-1161-1+030	0.910T I.D. 1.191 O.D. 0.222 Depth. May Need Machining. +10, 20, 30, 40, 50, 63 Avail.
	Exh	2008-10	22-1221-2N	0.906 I.D. 1.221 O.D. 0.335 Depth. Non-Magnetic Nickel Matl.
	Exh	2008-10	22-1260-1N	0.945 I.D. 1.2598 O.D. 0.335 Depth. May Need Machining. Non-Magnetic Nickel
	Int	2008-10	22-1375-1	1.100 I.D. 1.375 O.D. 0.227 Depth. +10 O/S Avail.
	Int	2008-10	22-1375-2N	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail.
Guide	Both	2008-10	30-3055	2.331 OAL
Spring	Both	2008-10	32-04040	2.076 Free Length
Keeper	Both	2008-10	34-5009	1 Round Groove
Lifter	Both	2008-10	36-2104	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both	2008-10	38-160-55	Viton. Top Hat.
Performance Spring	Both	2008-10	52-4040	2.170 Free Length. 84 @ 1.88. 230 @ 1.44
Retainer	Both	2008-10	55-6328	Retainer. 0.912 O.D.
Push Rod	Both	2008-10	74-6662	9.795 Length. OEM # 8C3Z6565B
Injector Component	Both	2008-10	87-6951	Injector Tube, Stainless. OEM # 8C3Z9N951A
<b>LINE 16</b>	<b>391 C.I. (6.4L) (C4PC)</b>		<b>1964-78 V8</b>	<b>BORE - 4.05"/102.87mm</b>
Valve	Exh	1964-78	10-917	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int		10-1057S	1.753 Head Dia. Stellite. 10-1057 Non-Stellite Avail.
Valve Seat Insert	Exh		20-1687-4N	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter. Non-Magnetic Nickel Matl.
	Int		20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth, OEM # C4TZ-6057A & D1TZ-6057A, +10, 20, 30 O/S Avail.
	Int		22-1815-1	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
Guide	Exh		30-9119	2.500 OAL. 0.627 O.D. 0.434 Spiral I.D. 30-6119 Plain I.D. Also Avail.

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# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 16</b>	<b>391 C.I. (6.4L) (C4PC)</b>			<b>1964-78 V8 BORE - 4.05"/102.87mm</b>
Guide	Int	1967-76	<b>30-9109</b>	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
	Int		<b>30-9964</b>	2.250 OAL. Spiral I.D.
Spring	Both	1965-77	<b>32-798</b>	2.000 Free Length.
	Both	1977-78	<b>32-909-D</b>	2.120 Free Length. w/ Damper
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Lifter	Both		<b>36-2083</b>	Hydraulic
Valve Stem Seal	Both		<b>38-938-45</b>	Viton. Ring And Band. Use w/ 0.552 O.D. Valve Guide
	Exh	1967-76	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Rocker Component			<b>40-2859</b>	Rocker Arm. Cast
		1964-78	<b>42-2641</b>	Rocker Shaft. 2 Required. w/ Hyd. Lifter
Push Rod		1964-69	<b>74-5311</b>	9.620 Length
		1964-76	<b>74-5312</b>	9.590 Length
Expansion Plug Kit		1964-78	<b>97-19</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>401, 477, 534 C.I.</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		<b>10-1346S</b>	1.635 Head Dia. Stellite Faced
Valve Seat Insert	Exh		<b>22-1744-1N</b>	1.445 I.D. 1.744 O.D. 0.312 Depth, OEM # B8QH-6057A
	Int		<b>22-2220-1</b>	1.843 I.D. 2.220 O.D. 0.312 Depth. OEM # B8TZ-6057T
Guide	Both		<b>30-9609</b>	2.625 OAL. 58-69: Both. 70 & Up: Int. Spiral I.D. 30-5609 w/ Plain I.D. Also Avail.
	Exh		<b>30-9197</b>	3.000 OAL. 1970 & Up
Spring		1958-81	<b>32-931</b>	2.020 Free Length
Keeper	Both		<b>34-802</b>	1 Groove. Heat Treated
Valve Stem Seal	Both		<b>38-713-15</b>	Nitrile. Umbrella Style.
Expansion Plug Kit			<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 18</b>	<b>401 C.I. (6.6L) OHV Turbo Diesel Brazil 12V Vin P</b>			<b>1986-94 V8 BORE - 4.40"/111.76mm</b>
Valve	Exh	1986-94	<b>10-1740</b>	1.580 Head Dia. Indirect Injection
	Exh	1986-94	<b>10-1758</b>	1.693 Head Dia. Direct Injection
	Int	1986-94	<b>10-1694</b>	1.842 Head Dia. Indirect Injection
	Int	1986-94	<b>10-1757</b>	1.870 Head Dia. Direct Injection
Valve Seat Insert	Exh	1987-94	<b>22-1733-2N</b>	1.455T I.D. 1.733 O.D. 0.365 Depth. +30 O/S Avail. CF600/800 Series
	Int	1987-94	<b>22-1962-1N</b>	1.595T I.D. 1.962 O.D. 0.365 Depth, +30 O/S Avail., CF600/800 Series
Guide	Both	1986-94	<b>30-8409</b>	2.680 OAL
Keeper	Both	1986-94	<b>34-613</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1986-94	<b>38-403-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1986-94	<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 19</b>	<b>6651cc (6.7L) OHV 32V Powerstroke Diesel</b>			<b>2010-14 V8 BORE - 99.1mm/3.90"</b>
Valve	Exh	2011-14	<b>10-13266</b>	1.195 Head Dia. 0.2748 Stem
	Int	2011-14	<b>10-13265</b>	1.331 Head Dia. 0.2748 Stem
Guide	Both	2011-14	<b>30-3163</b>	2.150 OAL. 0.2764 I.D. 0.4725 O.D.
Spring	Both	2011-14	<b>32-5015</b>	1.979 Free Length. Conical
Keeper	Both	2010-14	<b>34-281</b>	3 Round Grooves
Lifter	Both	2011-13	<b>36-7116</b>	Hydraulic
Valve Stem Seal	Both	2011-14	<b>38-6129-55</b>	Viton. Top Hat

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# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>420 C.I. (6.9L) Navistar Diesel 16V Vin 1</b>			<b>1983-87 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1983-87	10-1542	1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement.
	Exh	1983-87	10-1542S	H.D. Stellite. 1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement. +15 O/S Stem Avail.
	Int	1983-87	10-1543	1.877 Head Dia. +15 O/S Stem Avail. Valve Has 0.010 Larger Margin To Save Seat Replacement
Valve Seat Insert	Int	1983-87	20-1875-38	1-5/8 I.D. 1-7/8 O.D. 3/16 Depth. To Be Used In Early A & B Castings Due To Thin Wall Sections
	Int	1983-87	20-1937-23	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth, Cannot Be Used In Early Year A & B Castings Because Of Thin Casting.
	Exh	1983-87	22-1669-1	1.372T I.D. 1.669 O.D. 0.272 Depth. OEM # E3TZ-6057B. +15 & +30 O/S Avail.
Guide	Int	1983-87	22-1957-1	Dual O.D. Seat Recommended For All Castings.
	Both	1983-87	30-7689	2.600 OAL. OEM Repair Version Check O.D. 0.6252 O.D.
Spring	Both	1983-87	30-7712	5/8 Reamer Option 0.372 Stem: 2.600 OAL. 0.627 O.D. 0.374 I.D.
	Both	1983-87	32-887-D	2.050 Free Length. w/ Rotocaps. OEM # 317365-C11
Keeper	Both	1983-87	34-613	1 Groove. Heat Treated
Lifter	Both	1983-87	36-2104	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both	1983-87	38-844-45	Viton. Ring And Spring.
	Both	1983-87	38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
Push Rod	Both	1983-87	74-6608	10.013 Length. OEM # E3TZ6565A
Expansion Plug Kit		1983-87	97-97SS	Avail. In Stainless Steel Only - Specially Ground Concave Plugs To OEM Specs.

<b>LINE 21</b>	<b>428 C.I. (7.0L)</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-1217S	1.508 Head Dia. w/o Seal Groove, From S/N 420B61
	Exh		10-917	1.505 Head Dia. +3, 15,30 O/S Stem Avail. Non-Sodium Requires Addl. 0.002 Reaming Of Guide.
	Int		10-949	1.753 Head Dia. From S/N 420B61 (3/15/71). +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1687-4N	1-11/32 I.D. 1-11/16 O.D. 5/16 Depth. Use w/ 1-11/16 Cutter. Non-Magnetic Nickel Matl.
	Int		20-1875-2	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth. Use w/ 1-7/8 Cutter.
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth, OEM # C4TZ-6057A & D1TZ-6057A, +10, 20, 30 O/S Avail.
Guide	Int		22-1815-1	1.595 I.D. 1.815 O.D. 1/4 Depth, OEM # C8TZ-6057A
	Exh		30-9116	3.125 OAL. To 3/71. Hydraulic.
	Exh		30-9260	2.875 OAL. Spiral I.D. 30-7260 Plain I.D. Also Avail.
Spring	Int		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D. Also Avail.
	Both		32-907-D	2.120 Free Length. w/ Damper
Keeper	Both		34-613	1 Groove. Heat Treated
Lifter	Both		36-2083	Hydraulic
Valve Stem Seal	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		38-905-25	Polyacrylic. Umbrella. Nitrile Matl. 38-905-15 Also Avail.
Push Rod			74-5311	9.620 Length
			74-5312	9.590 Length
Expansion Plug Kit			97-19	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 22</b>	<b>7.3L 16V Diesel Vin CFKM Powerstroke Incl. Dir. Inj.</b>			<b>1988-05 V8 BORE - 4.1095"/104.38mm</b>
Valve	Exh	1988-95	10-1542	1.595 Head Dia. 0.372T Stem. Valve Has 0.010 Larger Margin To Save Seat Replacement.

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# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 22</b>	<b>7.3L 16V Diesel Vin CFKM Powerstroke Incl. Dir. Inj.</b>			<b>1988-05 V8 BORE - 4.1095"/104.38mm</b>	
Valve	Exh	1988-95	<b>10-1542S</b>	1.595 Head Dia. 0.372T Stem. Stellite. Valve Has 0.010 Larger Margin To Save Seat Replacement.	
	Exh	1988-95	<b>10-1754</b>	1.595 Head Dia. 0.3719 Stem. Hi-Nickel Head Matl. OEM # F3TZ6505B	
	Exh	1994-05	<b>10-1786</b>	1.680 Head Dia. 0.3122 Stem. Dir. Inj.	
	Int	1988-95	<b>10-1543</b>	1.877 Head Dia. 0.3719 Stem. +15 O/S Stem Avail. Valve Has 0.010 Larger Margin To Save Seat Replacement	
Valve Seat Insert	Int	1994-05	<b>10-1785</b>	1.680 Head Dia. 0.3122 Stem. Dir. Inj.	
	Exh	1994-05	<b>20-1750-4N</b>	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must cut seat angle to 37.5 Deg. Dir. Inj.	
	Int	1994-05	<b>20-1750-4</b>	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must cut seat angle to 30 Deg. Dir. Inj.	
	Int	1988-95	<b>20-1875-38</b>	1-5/8 I.D. 1-7/8 O.D. 3/16 Depth. To Be Used In 1988-89 Castings Due To Thin Wall Sections. .	
Valve Seat Insert	Int	1988-95	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth.	
	Exh	1988-95	<b>22-1669-1</b>	1.372T I.D. 1.669 O.D. 0.272 Depth. OEM # E3TZ-6057B. +15, 30 O/S Avail.	
	Int	1988-95	<b>22-1957-1</b>	Dual O.D. Seat Recommended For All Castings.	
	Guide	Both	1994-05	<b>30-3257</b>	1/2" Reamer Option 0.312 Stem: 2.440 OAL. 0.3145 I.D. 0.502 O.D. w/ Seal Boss O.D. 0.564. Type: 21-SR
Both		1994-05	<b>30-6587</b>	7/16 Reamer Option 0.312 Stem: 2.500 OAL. 0.3135 I.D., Check Stem Fit. 0.439 O.D. Type 1-SR	
Both		1988-95	<b>30-7689</b>	2.600 OAL. OEM Repair Version Check O.D. 0.6252 O.D.	
Both		1988-95	<b>30-7712</b>	5/8 Reamer Option 0.372 Stem: 2.600 OAL. 0.627 O.D. 0.374 I.D.	
Both		1988-05	<b>30-8476</b>	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.565 O.D. 0.3146 I.D.	
Both		1988-05	<b>30-8562</b>	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.564 O.D. 0.3145 I.D.	
Spring		Both	1988-05	<b>32-887-D</b>	2.050 Free Length. OEM # 317365-C11
Keeper		Both	1988-05	<b>34-613</b>	1 Groove. Heat Treated
Lifter		Both	1988-05	<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal		Both	1994-05	<b>38-173-45</b>	Viton. Top Hat. 0.312 Stem
	Both	1988-95	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.	
Push Rod	Both	1988-95	<b>74-6608</b>	10.013 Length. Vin C,K,M. OEM # E3TZ6565A	
	Both	1994-03	<b>74-6611</b>	10.258 Length. Vin F. OEM # F4TZ6565A	
Injector Component Expansion Plug Kit	Both	1988-05	<b>87-4376</b>	Injector Tube. Brass. OEM # F4TZ9F538A	
		1988-05	<b>97-136SS</b>	Stainless Steel Kit	
		1988-05	<b>97-173</b>	Steel Kit. Brass Kit Avail. in -B Suffix.	

<b>LINE 23</b>	<b>460 C.I. (7.5L)</b>			<b>1976-94 V8 BORE - 4.358"/110.7mm</b>
Valve	Exh	1976-94	<b>10-1271</b>	1.654 Head Dia. Marine. +3, +15 O/S Stem May Be Avail.
	Exh	1976-94	<b>10-1368S</b>	1.508 Head Dia. Stellite Faced
	Exh	1988-94	<b>10-1547</b>	1.654 Head Dia. EFI & LPG. Inconel Head. +15 O/S Avail.
	Int	1976-94	<b>10-1272</b>	2.083 Head Dia. Industrial & Marine +3, +15 O/S Stem Avail.
	Int	1988-92	<b>10-1548</b>	1.977 Head Dia. +15 O/S Stem May Be Avail. EFI
	Int	1976-94	<b>10-1548S</b>	1.977 Head Dia. Stellite. For LPG
	Int	1993-94	<b>10-1723</b>	2.083 Head Dia. EFI. +15 O/S Stem May Be Avail.
	Valve Seat Insert	Exh	1976-94	<b>20-1625-3N</b>
Exh		1976-94	<b>20-1812-21N</b>	1-15/32 I.D. 1-13/16 O.D. 5/16 Depth. Use w/ 1-13/16 Cutter. Non-Magnetic Nickl Matl.
Exh		1976-94	<b>20-H1578</b>	1.433 I.D. 1-3/4 O.D. 0.270 Depth. Iron Alloy w/ Tungsten. Hardened. Suitable For Natl. Gas.

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# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 23</b>	<b>460 C.I. (7.5L)</b>			<b>1976-94 V8 BORE - 4.358"/110.7mm</b>
Valve Seat Insert	Int	1976-94	<b>20-2062-30</b>	1-13/16 I.D. 2-1/16 O.D. 3/16 Depth. EFI & LPG, Use w/ 1.978 Valve Head Dia.
	Int	1976-94	<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. Industrial, Marine & EFI. Use w/ 2.083 Valve Head Dia.
	Int	1976-94	<b>20-H1759</b>	1.9375 I.D. 2-1/4 O.D. 0.1875 Depth. Iron Alloy w/ Tungsten. Hardened. Suitable For Natl. Gas.
	Exh	1976-94	<b>22-1781-1N</b>	1.476 I.D. 1.781 O.D. 0.311 Depth w/ OEM Insert & w/ 1.654 Valve Head Dia.
Guide	Both	1976-94	<b>30-9606</b>	2.375 OAL. Spiral I.D. 30-5606 Plain I.D. Also Avail.
Spring	Both	1976-94	<b>32-1378</b>	2.300 Free Length. HD Spring w/ dampner
	Both	1989-94	<b>32-1420</b>	2.114 Free Length
	Both	1976-88	<b>32-991</b>	2.068 Free Length
Keeper	Both	1976-94	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1976-94	<b>36-900CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Rotator / Retainer	Both	1976-94	<b>37-4000</b>	Retainer. Chrome Moly. 1.320 O.D. 11/32 Stem
Valve Stem Seal	Both	1976-94	<b>38-1045-70</b>	Teflon And Rubber.
	Both	1976-94	<b>38-530-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
	Exh	1976-94	<b>38-937-15</b>	Nitrile. Ring And Band.
	Int	1976-94	<b>38-827-45</b>	Viton. Metal Clad.
Rocker Component		1976-94	<b>40-2888</b>	Rocker Arm, Stamped w/ Oil Deflector
Rocker Kit			<b>41-2547</b>	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
Rocker Component	Both	1976-94	<b>42-2940</b>	Rocker Stud. 7/16-20 x 7/16-14 x 2.6700
Push Rod		1976-94	<b>74-6274</b>	8.550 Length
Expansion Plug Kit		1976-94	<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 24</b>	<b>474 C.I. (7.8L) Turbo Diesel Brazil 12V</b>			<b>1987-94 L6 BORE - 4.40"/111.76mm</b>
Valve	Exh	1987-94	<b>10-1758</b>	1.693 Head Dia.
	Int	1987-94	<b>10-1757</b>	1.870 Head Dia.
Valve Seat Insert	Exh	1987-94	<b>22-1733-2N</b>	1.455T I.D. 1.733 O.D. 0.365 Depth. +30 O/S Avail. CF600/800 Series
	Int	1987-94	<b>22-1962-1N</b>	1.595T I.D. 1.962 O.D. 0.365 Depth, +30 O/S Avail. CF600/800
Guide	Both	1987-94	<b>30-8409</b>	2.680 OAL
Spring	Both	1987-94	<b>32-219</b>	2.387 Free Length
Keeper	Both	1987-94	<b>34-613</b>	1 Groove. Heat Treated
Valve Stem Seal	Both	1987-94	<b>38-403-45</b>	Viton. Metal Clad.
Expansion Plug Kit		1987-94	<b>97-121SS</b>	Stainless Steel Kit



# FORD

# TRACTOR

ENGINE	YEAR	CYL.	LINE NO.
120 C.I. (2.0L)	1939-52	L4	1
134 C.I. (2.2L) Gas, LPG, Kerosene	1953-64	L4	2
144 C.I. (2.4L) Diesel		L4	3
158 C.I. (2.6L) Gas, Diesel, LPG		L3	4
172 C.I. (2.8L) Diesel	1958-64	L4	5
172 C.I. (2.8L) Gas, Kerosene, LPG	1955-64	L4	6
175 C.I. (2.9L)	1965-74	L3	7
192 C.I. (3.1L)		L3	8
201 C.I. (3.3L) Gas, Diesel		L3	9
220 C.I. (3.6L) Diesel		L4	10
223 C.I. (3.7L) 12V		L6	11
233 C.I. (3.8L) Gas, Diesel		L4	12
242 C.I. (4.0L) Diesel 12V		L6	13
256 C.I. (4.2L) Diesel, Gas		L4	14
330 C.I. (5.4L) Diesel 12V		L6	15
401 C.I. (6.6L) Diesel 12V		L6	16
401 C.I. (6.6L) Turbo Diesel 12V		L6	17

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>120 C.I. (2.0L)</b>		<b>1939-52 L4</b>	<b>BORE - 3.188"/81mm</b>
Valve	Exh	1948-52	10-220	1.281 Head Dia. w/o Rototype
	Exh	1939-52	10-270	1.283 Head Dia. Rototype
	Int	1939-52	10-212	1.510 Head Dia. OEM # 8BA6505A
Valve Seat Insert	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Exh		22-1348-1N	1.087 I.D. 1.348 O.D. 0.200 Depth. Non-Magnetic Nickel
Guide	Both		30-1614	2.210 OAL. 48-52: From S/N 42162. May Also Be Used w/ Roto Type Valves From 39-48.
Spring			32-497	Models 8N, 8NAN, o Serial # 42161
	Both	1939-52	32-448	8N, 9N. 2.500 Free Length
Keeper	Both	1939-52	34-555	1 Square Groove. Heat Treated
	Exh	1939-52	34-165	Tapered Groove. Heat Treated
<b>LINE 2</b>	<b>134 C.I. (2.2L) Gas, LPG, Kerosene</b>		<b>1953-64 L4</b>	<b>BORE - 3.437"/87.3mm</b>
Valve	Exh		10-348	1.510 Head Dia. Rototype
	Int		10-376	1.647 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1625-11+006	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth
	Int		20-1812-2	1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both		30-1726	2.470 OAL
Spring	Int		32-611	2.090 Free Length
Keeper	Exh	1953-64	34-165	Tapered Groove. Heat Treated
	Int		34-555	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1953-64	38-522-25	Polyacrylic. Shallow Umbrella.
<b>LINE 3</b>	<b>144 C.I. (2.4L) Diesel</b>		<b>L4</b>	<b>BORE - 3.5625"/90.49mm</b>
Valve Seat Insert	Exh		20-1250-1	1.000 I.D. 1-1/4 O.D. 7/32 Depth.
	Int		20-1625-11	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth
Guide	Exh		30-1726	2.470 OAL
	Int		30-1966	2.938 OAL.
<b>LINE 4</b>	<b>158 C.I. (2.6L) Gas, Diesel, LPG</b>		<b>L3</b>	<b>BORE - 4.20"/106.7mm</b>
Valve	Exh		10-1653	1.500 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>158 C.I. (2.6L) Gas, Diesel, LPG</b>		<b>L3</b>	<b>BORE - 4.20"/106.7mm</b>
Valve	Exh		<b>10-1695S</b>	1.510 Head Dia.
	Int		<b>10-1654</b>	1.805 Head Dia.
Valve Seat Insert	Exh		<b>22-1600-1</b>	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		<b>22-1630-1N</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Alternate +30 O/S & Greater Depth
	Int		<b>22-1900-1</b>	1.650 I.D. 1.900 O.D. 0.300 Depth. Alternate w/ Greater Depth
	Int		<b>22-1900-2</b>	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
	Guide	Both		<b>30-6905</b>
Spring	Both		<b>32-04014</b>	2.208 OAL. To 1991
	Both		<b>32-04016</b>	2.390 OAL. From 1991
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
<b>LINE 5</b>	<b>172 C.I. (2.8L) Diesel</b>		<b>1958-64 L4</b>	<b>BORE - 3.90"/99.06mm</b>
Valve	Exh		<b>10-608</b>	1.510 Head Dia.
	Int		<b>10-609</b>	1.647 Head Dia.
Valve Seat Insert	Exh		<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int		<b>20-1812-5</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Exh		<b>30-1726</b>	2.470 OAL
	Int		<b>30-1966</b>	2.938 OAL
Spring	Both		<b>32-611</b>	2.090 Free Length
Keeper	Exh	1958-64	<b>34-165</b>	Tapered Groove. Heat Treated
	Exh		<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1958-64	<b>38-522-25</b>	Polyacrylic. Shallow Umbrella.
<b>LINE 6</b>	<b>172 C.I. (2.8L) Gas, Kerosene, LPG</b>		<b>1955-64 L4</b>	<b>BORE - 3.90"/99.06mm</b>
Valve	Exh		<b>10-348</b>	1.510 Head Dia.
	Int		<b>10-376</b>	1.647 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1625-11+006</b>	1-11/32 I.D. 1-5/8 O.D. 7/32 Depth
	Int		<b>20-1812-2</b>	1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both		<b>30-1726</b>	2.470 OAL
Spring	Both		<b>32-611</b>	2.090 Free Length
Keeper	Exh	1955-64	<b>34-165</b>	Tapered Groove. Heat Treated
	Int		<b>34-555</b>	1 Square Groove. Heat Treated
Valve Stem Seal	Both	1955-64	<b>38-522-25</b>	Polyacrylic. Shallow Umbrella.
<b>LINE 7</b>	<b>175 C.I. (2.9L)</b>		<b>1965-74 L3</b>	<b>BORE - 4.20"/106.68mm</b>
Valve	Exh		<b>10-1653</b>	1.500 Head Dia.
	Exh		<b>10-1695S</b>	1.510 Head Dia. Stellite Face.
	Int		<b>10-1654</b>	1.805 Head Dia.
Valve Seat Insert	Exh		<b>22-1600-1</b>	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		<b>22-1630-1N</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
	Int		<b>22-1900-1</b>	1.650 I.D. 1.900 O.D. 0.300 Depth
	Int		<b>22-1900-2</b>	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
Guide	Both		<b>30-6905</b>	3.969 OAL. Universal
Spring	Both		<b>32-04014</b>	2.2.08 OAL. To 1991

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 7</b>	<b>175 C.I. (2.9L)</b>			<b>1965-74 L3 BORE - 4.20"/106.68mm</b>
Spring	Both		32-04016	2.390 OAL. From 1991
Keeper	Both		34-613	1 Groove. Heat Treated
<b>LINE 8</b>	<b>192 C.I. (3.1L)</b>			<b>L3 BORE - 4.40"/111.7mm</b>
Valve	Exh		10-1653	1.500 Head Dia.
	Exh		10-1695S	1.510 Head Dia. Stellite Face.
	Int		10-1654	1.800 Head Dia.
Valve Seat Insert	Exh		22-1600-1	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
	Int		22-1900-1	1.650 I.D. 1.900 O.D. 0.300 Depth
	Int		22-1900-2	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
Guide	Both		30-6905	3.969 OAL. Universal
Spring	Both		32-04014	2.208 OAL. To 1991
	Both		32-04016	2.390 OAL. From 1991
Keeper	Both		34-613	1 Groove. Heat Treated
<b>LINE 9</b>	<b>201 C.I. (3.3L) Gas, Diesel</b>			<b>L3 BORE - 4.40"/111.8mm</b>
Valve	Exh		10-1653	1.500 Head Dia.
	Exh		10-1695S	1.510 Head Dia.
	Int		10-1654	1.805 Head Dia.
Valve Seat Insert	Exh		22-1600-1	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh.		22-1630-1	1.335 I.D. 1.630 O.D. 0.312 Depth. Also Avail. In Nickel (-N) Matl.
	Int		22-1900-1	1.650 I.D. 1.900 O.D. 0.300 Depth
	Int		22-1900-2	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
Guide	Both		30-6905	3.969 OAL. Universal
	Both		30-6907	3.000 OAL
Spring	Both		32-04014	2.208 Length, From 1990
	Both		32-04016	2.390 Length, From 1991
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # F2NN6518AA.
<b>LINE 10</b>	<b>220 C.I. (3.6L) Diesel</b>			<b>L4 BORE - 3.937"/100mm</b>
Valve Seat Insert	Exh		20-1750-7	1-3/8 I.D. 1-3/4 O.D. 7/32 Depth.
	Int		20-1875-19	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Both		30-6907	3.000 OAL
<b>LINE 11</b>	<b>223 C.I. (3.7L) 12V</b>			<b>L6 BORE - 3.625"/92mm</b>
Valve Seat Insert	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Exh		22-1600-1	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
Guide	Both		30-6105	2.500 OAL. Plain Conversion Guide
<b>LINE 12</b>	<b>233 C.I. (3.8L) Gas, Diesel</b>			<b>L4 BORE - 4.20"/106.68mm</b>
Valve	Exh		10-1653	1.500 Head Dia.
	Exh		10-1695S	1.510 Head Dia.
	Int		10-1654	1.805 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>233 C.I. (3.8L) Gas, Diesel</b>			<b>L4 BORE - 4.20"/106.68mm</b>
Valve Seat Insert	Exh		22-1600-1	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
	Int		22-1900-2	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
Guide	Both		30-9105	2.500 OAL. Spiral I.D. 30-6105 Plain I.D. Also Avail.
	Both		30-9109	2.500 OAL. Spiral 0.374 I.D. 30-6109 Plain I.D. Also Avail.
Spring	Both		32-04014	2.208 OAL. To 1991
	Both		32-04016	2.2390 OAL. From 1991
	Both		32-535	2.120 Free Length
	Both		32-611	2.090 Free Length Model 6000
Keeper	Both		34-613	1 Groove. Heat Treated
<b>LINE 13</b>	<b>242 C.I. (4.0L) Diesel 12V</b>			<b>L6 BORE - 3.62"/92mm</b>
Valve Seat Insert	Exh		20-1437-4	1-1/8 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1750-3	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth.
Guide	Both		30-6907	3.000 OAL
<b>LINE 14</b>	<b>256 C.I. (4.2L) Diesel, Gas</b>			<b>L4 BORE - 4.40"/111.76mm</b>
Valve	Exh		10-1653	1.500 Head Dia. Exc. Turbo
	Exh		10-1695S	1.510 Head Dia. Turbo
	Int		10-1654	1.805 Head Dia. Exc. Turbo
	Int		10-1694	1.842 Head Dia. Turbo
Valve Seat Insert	Exh		22-1600-1	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
	Int		22-1900-1	1.650 I.D. 1.900 O.D. 0.300 Depth
	Int		22-1900-2	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
	Int		22-1900-3	1.650 I.D. 1.900 O.D. 0.250 Depth. OEM # D4NN6056E. +10,20,30 O/S Avail. Turbo
Guide	Both		30-6905	3.969 OAL. Universal
Spring	Both		32-04014	2.208 OAL. To 1991
	Both		32-04016	2.390 OAL. From 1991
Keeper	Both		34-613	1 Groove. Heat Treated
<b>LINE 15</b>	<b>330 C.I. (5.4L) Diesel 12V</b>			<b>L6 BORE - 3.937"/100mm</b>
Valve Seat Insert	Exh		20-1750-7	1-3/8 I.D. 1-3/4 O.D. 7/32 Depth.
	Int		20-1875-19	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Both		30-6907	3.000 OAL
<b>LINE 16</b>	<b>401 C.I. (6.6L) Diesel 12V</b>			<b>L6 BORE - 4.40"/111.76mm</b>
Valve	Exh		10-1653	1.500 Head Dia. Exc. Turbo
	Exh		10-1695S	1.510 Head Dia.
	Int		10-1654	1.500 Head Dia. Exc. Turbo
Valve Seat Insert	Exh		22-1600-1	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		22-1630-1N	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
	Int		22-1900-1	1.650 I.D. 1.900 O.D. 0.300 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 16</b>	<b>401 C.I. (6.6L) Diesel 12V</b>			<b>L6 BORE - 4.40"/111.76mm</b>
Valve Seat Insert	Int		<b>22-1900-2</b>	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
Guide	Both		<b>30-6905</b>	3.969 OAL. Universal
Spring	Both		<b>32-04014</b>	2.208 OAL. To 1990
	Both		<b>32-04016</b>	2.390 OAL. From 1990
	Both		<b>32-1048</b>	1.831 Free Length.
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Expansion Plug Kit			<b>97-21</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>401 C.I. (6.6L) Turbo Diesel 12V</b>			<b>L6 BORE - 4.40"/111.76mm</b>
Valve	Exh		<b>10-1695S</b>	1.510 Head Dia.
	Int		<b>10-1694</b>	1.842 Head Dia.
Valve Seat Insert	Exh		<b>22-1600-1</b>	1.340 I.D. 1.600 O.D. 0.300 Depth OEM # C9NN6057J +10,20,30 O/S Avail
	Exh		<b>22-1630-1N</b>	1.335 I.D. 1.630 O.D. 0.312 Depth. Nickel Matl.
	Int		<b>22-1900-1</b>	1.650 I.D. 1.900 O.D. 0.300 Depth
	Int		<b>22-1900-2</b>	1.645 I.D. 1.900 O.D. 0.250 Depth OEM # D4NN6056A +10,20,30 O/S Avail
	Int		<b>22-1900-3</b>	1.650 I.D. 1.900 O.D. 0.250 Depth. OEM # D4NN6056E. +10,20,30 O/S Avail. Turbo
Guide	Both		<b>30-6905</b>	3.969 OAL. Universal
Spring	Both		<b>32-04014</b>	2.208 OAL. To 1990
	Both		<b>32-04016</b>	2.390 OAL. From 1990
	Both		<b>34-613</b>	1 Groove. Heat Treated
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Expansion Plug Kit			<b>97-27</b>	Steel Kit. Brass Kit Avail. In Suffix B

ENGINE		YEAR	CYL.	LINE NO.
262 C.I. (4.3L) OHV 12V Industrial		1985-14	V6	1
4.8L SOHC 16V Diesel 4HE1 (Isuzu) Turbo			L4	2
5.2L (317 C.I.) SOHC 16V 4HK1 Diesel (Isuzu)			L4	3
350 C.I. (5.7L) Chev. 16V Industrial		1967-05	V8	4
6.2L (381 C.I.) Diesel 16V Vin C, J OHV		1982-93	V8	5
395 C.I. (6.5L) OHV 16V Turbo Diesel Vin F,P,S,Y,Z		1992-04	V8	6
400 C.I. (6.6L) Duramax Diesel Vin 12368DL OHV 32V		2001-14	V8	7
435 C.I. (7.1L) SOHC 12V 6HE1 Turbo Diesel Dir. Inj.			L6	8
454 C.I. (7.4L) 16V Industrial		1970-00	V8	9
7780cc (7.8L) SOHC 6HK1 (Isuzu) 24V Diesel			L6	10
496 C.I. (8.1L) 16V Vortec OHV Industrial		2001-09	V8	11

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>262 C.I. (4.3L) OHV 12V Industrial</b>		<b>1985-14 V6</b>	<b>BORE - 4.00"/101.6mm</b>
<b>Valve</b>	Exh		<b>10-1192SP</b>	1.600 Head Dia. 0.371 Stem. 4.925 Length. 0.341 SG Keeper. Stellite. Inconel Head
	Exh		<b>10-1294S</b>	1.500 Head Dia. 0.3718T Stem. 4.923 Length. Stellite. 2G Keeper
	Exh		<b>10-1807S</b>	1.500 Head Dia. 0.3413T Stem. 4.920 Length. Stellite. SG
	Exh		<b>10-1807SP</b>	1.500 Head Dia. 0.3413T Stem. 4.920 Length. Stellite. SG. Inconel Head
	Int		<b>10-1193SP</b>	2.020 Head Dia. 0.371 Stem. 4.9133 Length. 0.341 SG Keeper. Stellite. Stainless Head
	Int		<b>10-1931SP</b>	1.940 Head Dia. 0.3410 Stem. 4.881 Length. SG. Stellite. Inconel Head.
<b>Valve Seat Insert</b>	Exh		<b>20-1562-1N</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Nickel Matl. For 1.500 Head
	Exh		<b>20-1687-2N</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. Nickel Matl. For 1.600 Head
	Int		<b>20-2000-36</b>	1-3/4 I.D. 2.000 O.D. 3/16 Depth. For 1.940 Head
	Int		<b>20-2125-34</b>	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth. For 2.020 Head
	Exh		<b>22-1635-1</b>	1.358T I.D. 1.635 O.D. 0.251 Depth. Tungsten Alloy 30 Deg. For 1.600 head
	Int		<b>22-2107-1</b>	1.809T I.D. 2.107 O.D. 0.216 Depth. Tungsten Alloy. 30 Deg. For 2.020 Head
<b>Guide</b>	Both		<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 0.502 O.D.
	Both		<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 0.502 O.D.
	Exh		<b>30-8407</b>	2.220 OAL. Replaceable Exh. Guide - Caution When Removing Stepped O.D. The Bottom Of The Guide Is The 0.620" End. Drive Out Toward Valve Seat.
	Exh		<b>30-9946</b>	2.250 OAL. 0.343 Spiral I.D. 0.502 O.D.
	Int		<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 0.502 O.D.
<b>Spring</b>	Both		<b>32-1038-D</b>	1.910 Free Length. w/ Damper
	Both		<b>32-1680</b>	2.059 Free Length
	Both		<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both		<b>32-880-D</b>	2.030 Free Length. w/ Damper
	Both		<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
<b>Keeper</b>	Both		<b>34-555</b>	1 Square Groove. Heat Treated. 0.341 Stem
<b>Lifter</b>	Both		<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up to Install
	Both		<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
<b>Rotator / Retainer</b>	Both		<b>37-4003</b>	Rotator. OEM # 14042575
<b>Valve Stem Seal</b>	Both		<b>38-371-45</b>	Viton. Metal Clad. 11/32 Stem
	Both		<b>38-938-45</b>	Viton. Ring And Band.
<b>Rocker Component</b>	Both		<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped

# GM

# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES	
<b>LINE 1</b>	<b>262 C.I. (4.3L) OHV 12V Industrial</b>		<b>1985-14 V6</b>	<b>BORE - 4.00"/101.6mm</b>	
Rocker Kit	Both		41-1736	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud	
Rocker Component	Both		42-2920	Rocker Stud. 3/8x24 x2.500 Press-In	
	Both		42-2921	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.	
Retainer	Both		55-6105	Chrome Moly. 1.200 O.D. 11/32 Stem	
	Both		55-6906	Chrome Moly. 1.130 O.D. 11/32 Stem. Use w/ 32-1680	
Push Rod	Both		74-6034	7.798 Length	
	Both		74-6373	7.195 Length	
	Both		74-6385	5/16" Dia. x 7.894"	
	Both		74-6615	7.192 Length. '87-03.	
Expansion Plug Kit			97-87B	Brass Kit	
			97-99-2B	Brass Kit. For Balance Shaft Engines Only.	
			97-99B	Brass Kit	
<b>LINE 2</b>	<b>4.8L SOHC 16V Diesel 4HE1 (Isuzu) Turbo</b>		<b>L4</b>	<b>BORE - 110.6mm/4.33"</b>	
Valve	Exh		10-2238	1.654 Head Dia. OEM # 8943954620	
	Int		10-2237	1.969 Head Dia. OEM # 8943951131	
	Int		10-2239	1.830 Head Dia. OEM # 8970338641	
Valve Seat Insert	Exh		22-1697-1	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720	
	Int		22-1894-1	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620	
	Int		22-2013-1	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600	
Guide	Both		30-3054	0.3547 I.D. 2.365 OAL OEM 8943965980	
Valve Stem Seal	Both		38-6115-55	Viton. Top Hat. OEM # 8943966092	
<b>LINE 3</b>	<b>5.2L (317 C.I.) SOHC 16V 4HK1 Diesel (Isuzu)</b>		<b>L4</b>	<b>BORE - 4.53"/115mm</b>	
Valve	Exh		10-13122	1.456 Head Dia. 0.312 Stem. OEM # 8972098763	
	Int		10-13121	1.457 Head Dia. 0.313 Stem. OEM # 8943958822	
Guide	Both		30-3101	2.245 OAL. 0.3150 I.D. 0.5526 O.D.	
Valve Stem Seal	Both		38-223-55	Viton. Metal Clad.	
	Both		38-962-45	Viton. Ring And Spring.	
<b>LINE 4</b>	<b>350 C.I. (5.7L) Chev. 16V Industrial</b>		<b>1967-05 V8</b>	<b>BORE - 4.00"/101.6mm</b>	
Valve	Exh		10-1192SP	1.600 Head Dia. 0.371 Stem. 4.925 Length. 0.341 SG Keeper. Stellite. Inconel Head	
	Exh		10-1294S	1.500 Head Dia. 0.3718T Stem. 4.923 Length. Stellite. 2G Keeper	
	Exh		10-1807S	1.500 Head Dia. 0.3413T Stem. 4.920 Length. Stellite. SG	
	Exh		10-1807SP	1.500 Head Dia. 0.3413T Stem. 4.920 Length. Stellite. SG. Inconel Head	
	Int		10-1193SP	2.020 Head Dia. 0.371 Stem. 4.9133 Length. 0.341 SG Keeper. Stellite. Stainless Head	
	Int		10-1931SP	1.940 Head Dia. 0.3410 Stem. 4.881 Length. SG. Stellite. Inconel Head.	
	Valve Seat Insert	Exh		20-1562-1N	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Nickel Matl. For 1.500 Head
		Exh		20-1687-2N	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. Nickel Matl. For 1.600 Head
Int			20-2000-36	1-3/4 I.D. 2.000 O.D. 3/16 Depth. For 1.940 Head	
Int			20-2125-34	1-7/8 I.D. 2-1/8 O.D. 7/32 Depth. For 2.020 Head	
Exh			22-1635-1	1.358T I.D. 1.635 O.D. 0.251 Depth. Tungsten Alloy 30 Deg. For 1.600 head	
Int			22-2107-1	1.809T I.D. 2.107 O.D. 0.216 Depth. Tungsten Alloy. 30 Deg. For 2.020 Head	

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>350 C.I. (5.7L) Chev. 16V Industrial</b>		<b>1967-05 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Guide	Both		<b>30-9607</b>	2.250 OAL. Spiral 0.344 I.D. 0.502 O.D.
	Exh		<b>30-9107</b>	2.250 OAL. Spiral 0.374 I.D. 0.502 O.D.
	Exh		<b>30-9946</b>	2.250 OAL. 0.343 Spiral I.D. 0.502 O.D.
	Int		<b>30-9867</b>	2.125 OAL. Spiral 0.344 I.D. 0.502 O.D.
Spring	Both		<b>32-1680</b>	2.059 Free Length
	Both		<b>32-1943-D</b>	2.140 Free Length. Hi-Perf. w/ 0.100" Addl. Free Length, Damper
	Both		<b>32-880-D</b>	2.030 Free Length. w/ Damper
	Both		<b>32-943-D</b>	2.040 Free Length. w/ Damper, Hi-Perf.
Keeper	Both		<b>34-555</b>	1 Square Groove. Heat Treated. 0.341 Stem
Lifter	Both		<b>36-2148</b>	Hydraulic Roller. Rotate Oil Hole Up to Install
Rotator / Retainer	Both		<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both		<b>38-371-45</b>	Viton. Metal Clad. 11/32 Stem
	Both		<b>38-938-45</b>	Viton. Ring And Band.
Rocker Component	Both		<b>40-2736</b>	Rocker Arm, SBC 1.5 Self-Aligning Stamped
Rocker Kit	Both		<b>41-1736</b>	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut. Use w/ 42-2921 Stud
Rocker Component	Both		<b>42-2920</b>	Rocker Stud. 3/8x24 x2.500 Press-In
	Both		<b>42-2921</b>	Rocker Stud. +3 O/S 3/8x24 x 2.300 Press-In Adj.
	Both		<b>42-2941</b>	Rocker Stud. 7/16-14x7/16-20 x2.560
Retainer	Both		<b>55-6100</b>	Chrome Moly. 1.240 O.D. 11/32 Stem
	Both		<b>55-6105</b>	Chrome Moly. 1.200 O.D. 11/32 Stem
	Both		<b>55-6906</b>	Chrome Moly. 1.130 O.D. 11/32 Stem. Use w/ 32-1680
Push Rod	Both		<b>74-6034</b>	7.798 Length
	Both		<b>74-6373</b>	7.195 Length
	Both		<b>74-6385</b>	5/16" Dia. x 7.894"
	Both		<b>74-6615</b>	7.192 Length. '87-96, VIN K
Expansion Plug Kit			<b>97-100B</b>	Brass Kit.
<b>LINE 5</b>	<b>6.2L (381 C.I.) Diesel 16V Vin C, J OHV</b>		<b>1982-93 V8</b>	<b>BORE - 3.976"/101 mm</b>
Valve	Exh	1984-93	<b>10-1482S</b>	1.496 Head Dia. J Eng.
	Exh	1982-87	<b>10-1483S</b>	1.653 Head Dia. 1982-83 All & 1984-87 C Eng.
	Exh	1988-93	<b>10-1780S</b>	1.535 Head Dia. C Eng.
	Int	1982-93	<b>10-1484</b>	1.811 Head Dia. 1982-83 C Eng. & 1984-93 All
	Int	1982-83	<b>10-1518</b>	1.968 Head Dia. J Eng.
Valve Seat Insert	Exh	1982-93	<b>20-1562-36N</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth. w/ 1.535 Valve Head Dia. Non-Magnetic Nickel
	Exh	1982-87	<b>20-1687-15</b>	1-7/16 I.D. 1-11/16 O.D. 5/32 Depth. w/ 1.653 Valve Head Dia.
	Int	1982-93	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth.
	Int	1982-83	<b>20-2000-22</b>	1-3/4 I.D. 2.000 O.D. 5/32 Depth. w/ 1.968 Valve Head Dia.
Guide	Exh	1982-93	<b>30-9716</b>	2.188 OAL
	Int	1982-93	<b>30-9715</b>	2.125 OAL
Spring	Both	1982-93	<b>32-1220-D</b>	2.035 Free Length. w/ Damper
Keeper	Both	1982-93	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1982-93	<b>36-2104</b>	Hydraulic Roller
Rotator / Retainer	Both	1988-93	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1982-93	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>6.2L (381 C.I.) Diesel 16V Vin C, J OHV</b>		<b>1982-93 V8</b>	<b>BORE - 3.976"/101 mm</b>
Valve Stem Seal	Both	1982-93	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1982-93	<b>38-552-45</b>	Viton. Metal Clad
	Both	1982-93	<b>38-925-25</b>	Polyacrylic. Ring And Band. 38-925-15 Nitrile Matl. Also Avail.
	Exh	1982-93	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1985-93	<b>40-2900</b>	Rocker Arm
Retainer	Both	1982-93	<b>55-6115</b>	Retainer. 1.200 O.D.
Push Rod	Both	1982-93	<b>74-6609</b>	8.822 Length. OEM # 23503994
Oil Pump Kit		1982-93	<b>97-98B</b>	Brass Kit
<b>LINE 6</b>	<b>395 C.I. (6.5L) OHV 16V Turbo Diesel Vin F,P,S,Y,Z</b>		<b>1992-04 V8</b>	<b>BORE - 4.05"/102.87mm</b>
Valve	Exh	1992-04	<b>10-1780S</b>	1.535 Head Dia. 0.372 Stem Dia.
	Int	1992-04	<b>10-1484</b>	1.811 Head Dia. 0.341 Stem Dia. OEM # 14033927
Valve Seat Insert	Exh	1992-04	<b>20-1562-36N</b>	1-5/16 I.D. 1-9/16 O.D. 3/16 Depth. w/ 1.535 Valve Head Dia. Non-Magnetic Nickel
	Int	1992-04	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth.
Guide	Exh	1992-04	<b>30-9716</b>	2.188 OAL
	Int	1992-04	<b>30-9715</b>	2.125 OAL
Spring	Both	1992-04	<b>32-1220-D</b>	2.035 Free Length. w/ Damper
Keeper	Both	1992-04	<b>34-555</b>	1 Square Groove. Heat Treated
Lifter	Both	1992-04	<b>36-2104</b>	Hydraulic Roller
Rotator / Retainer	Both	1992-04	<b>37-4003</b>	Rotator. OEM # 14042575
Valve Stem Seal	Both	1992-04	<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both	1992-04	<b>38-450-25</b>	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
	Both	1992-04	<b>38-552-45</b>	Viton. Metal Clad
	Both	1992-04	<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Rocker Component	Both	1992-04	<b>40-2900</b>	Rocker Arm
Retainer	Both	1992-04	<b>55-6115</b>	Retainer. 1.200 O.D.
Push Rod	Both	1992-04	<b>74-6609</b>	8.822 Length. OEM # 23503994
Oil Pump Kit		1992-04	<b>97-98B</b>	Brass Kit
<b>LINE 7</b>	<b>400 C.I. (6.6L) Duramax Diesel Vin 12368DL OHV 32V</b>		<b>2001-14 V8</b>	<b>BORE - 103mm/4.06"</b>
Valve	Exh	2001-14	<b>10-2176</b>	1.220 Head Dia.
	Int	2001-14	<b>10-2175</b>	1.299 Head Dia.
Valve Seat Insert	Exh	2001-14	<b>22-1264-1</b>	0.977T I.D. 1.264 O.D. 0.237 Depth. OEM # 97212572
	Int	2001-14	<b>22-1343-1</b>	1.069T I.D. 1.343 O.D. 0.237 Depth.
Guide	Both	2001-05	<b>30-3049</b>	1.967 OAL. 0.455 O.D. 0.2755 I.D. 4-P
	Both	2006-14	<b>30-3142</b>	1.967 OAL. 0.455 O.D. 0.2755 I.D. 1-P
Spring	Both	2001-14	<b>32-04041</b>	2.200 Free Length
Keeper	Both	2001-14	<b>34-5001</b>	1 Round Groove
Valve Stem Seal	Both	2001-05	<b>38-299-45</b>	Viton. Metal Clad
	Both	2006-14	<b>38-6132-55</b>	Viton. Metal Clad
Performance Spring	Both	2001-14	<b>52-4041</b>	2.200 Free Length. 75 @ 1.900. 150 @ 1.400
Retainer	Both	2001-13	<b>55-6066</b>	Retainer. 1.175 O.D.
Injector Component	Both	2001-13	<b>87-1259</b>	Injector O-Ring. OEM # 94051259
	Both	2001-13	<b>87-8463</b>	Injector Tube. OEM # 97188463
Expansion Plug Kit		2001-13	<b>97-301SS</b>	Stainless

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>435 C.I. (7.1L) SOHC 12V 6HE1 Turbo Diesel Dir. Inj.</b>			<b>L6 BORE - 4.22"/107.2mm</b>
Valve	Exh		<b>10-2238</b>	1.654 Head Dia. OEM # 8943954620
	Int		<b>10-2237</b>	1.969 Head Dia. OEM # 8943951131
	Int		<b>10-2239</b>	1.830 Head Dia. OEM # 8970338641
Valve Seat Insert	Exh		<b>22-1697-1</b>	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720
	Int		<b>22-1894-1</b>	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620
	Int		<b>22-2013-1</b>	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600
Guide	Both		<b>30-3054</b>	0.3547 I.D. 2.365 OAL OEM 8943965980
Valve Stem Seal	Both		<b>38-6115-55</b>	Viton. Top Hat. OEM # 8943966092
<b>LINE 9</b>	<b>454 C.I. (7.4L) 16V Industrial</b>			<b>1970-00 V8 BORE - 4.25"/108mm</b>
Valve	Exh	1987-00	<b>10-1235S</b>	1.660 Head Dia. 0.3716 Stem. 5.367 Length. Stellite. SG. 46 Deg
	Exh	1971-00	<b>10-1261S</b>	1.720 Head Dia. 0.3716 Stem. 5.355 Length. Stainless Head. SG. 45 Deg
	Exh	1985-90	<b>10-1578S</b>	1.720 Head Dia. 0.3716 Stem. 5.355 Length. Inconel Head. SG. 45 Deg
	Exh	1985-90	<b>10-1578SP</b>	1.720 Head Dia. 0.3716 Stem. 5.355 Length. Inconel Head. Stellite. Nitrided. SG. 45 Deg
	Exh	1987-00	<b>10-21235S</b>	1.660 Head Dia. 0.3716 Stem. 5.367 Length. Stellite. Nitrided. SG. 20 Deg
	Int	1970-00	<b>10-1107S</b>	2.065 Head Dia. 0.372 Stem. 5.230 Length. Stellite. SG. 45 Deg
	Int	1970-76	<b>10-1164</b>	2.190 Head Dia. 0.372 Stem. 5.225 Length. Stainless Head. SG. 45 Deg
	Valve Seat Insert	Exh	1970-00	<b>20-1812-4N</b>
Exh		1971-00	<b>20-1812-9N</b>	1-1/2 I.D. 1-13/16 O.D. 5/16 Depth. O/S Replacement For Late Heads w/ Factory Installed Exh. Seat
Int		1970-00	<b>20-2125-38</b>	1-13/16 I.D. 2-1/8 O.D. 3/16 Depth. w/ 2.065 Valve Head Dia.
Int		1970-76	<b>20-2312-9</b>	2.000 I.D. 2-5/16 O.D. 1/4 Depth
Exh		1971-00	<b>22-1784-1N</b>	1.417T I.D. 1.7845 O.D. 0.292 Depth. w/ Factory Installed Exh. Seat
Exh		1971-00	<b>22-1784-2N</b>	Same as 22-1781-1N w/ straight I.D.
Guide	Exh	1985-00	<b>30-8113</b>	New Style. 2.435 OAL. 0.6205 O.D. Drive Guide Out Toward Valve Seat.
	Exh	1985-00	<b>30-8256</b>	2.755 OAL. 0.6163 O.D. Same As 30-8113 But Not Cut For Seal
	Exh	1970-00	<b>30-9972H</b>	2.630 OAL. Hardened. Drive Out Toward Spring Seat. 30-9972+3 Also Avail.
Spring	Int	1970-00	<b>30-9973</b>	2.420 OAL. 0.3735 Spiral I.D. 0.6255 O.D. +10 O/S Avail.
	Both	1996-00	<b>32-04013</b>	2.050 Free Length. Conical.
	Both	1971-72	<b>32-1009</b>	2.120 Free Length. Double Spring
	Both	1973-74	<b>32-1041-D</b>	2.093 Free Length. w/ Damper
	Both	1970-00	<b>32-5010</b>	2.520 Free Length. Use instead of Rotator or Rotator eliminator.
	Both	1970-70	<b>32-816-D</b>	Single w/ Damper. 2.180 Free Length
	Both	1975-85	<b>32-864-D</b>	2.050 Free Length. w/ Damper
Keeper	Both	1970-00	<b>34-613</b>	Heat Treated. 1 Groove.
Lifter	Both	1997-00	<b>36-2279</b>	Hydraulic Roller
	Both	1970-76	<b>36-2279G</b>	Lifter Guide, Dogbone Type
	Both	1970-90	<b>36-817CCI</b>	Hydraulic Flat. 2-pc. Chilled Cast Iron Wafer Bottom
	Both	1991-96	<b>36-969</b>	Hydraulic
	Both	1970-76	<b>36-992</b>	Mechanical High Performance
Rotator / Retainer	Both	1971-95	<b>37-1046</b>	Rotator. OEM # 14081046
	Both	1996-00	<b>37-2899</b>	Rotator. OEM # 10240899

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 9</b>	<b>454 C.I. (7.4L) 16V Industrial</b>		<b>1970-00 V8</b>	<b>BORE - 4.25"/108mm</b>
Rotator / Retainer	Both	1970-00	37-4250	Retainer. Use w/ 32-5010
Valve Stem Seal	Both	1970-00	38-1068-70	Teflon And Rubber.
	Both	1996-00	38-119-35	Glass-Filled Nylon. Umbrella
	Both	1987-00	38-844-45	Viton. Ring And Spring.
Rocker Component	Both	1992-98	40-2754	Rocker Arm. Larger Stud Hole.
	Both	1970-91	40-2867	Rocker Arm. Stamped. 1.72 Ratio
	Both	1970-00	40-2868	Rocker Arm. 1.72 Long Slot w/.560 Lift
Rocker Kit	Both	1970-90	41-2504	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
	Both	1970-90	41-2507	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
	Both	1991-00	41-2673	1 40-2754, 1 42-1861 Ball, 1 42-2971 Stud Bolt
Rocker Component	Both	1970-00	42-2971	Rocker Stud.
Retainer	Both	1973-74	55-6304	Chrome Moly. 1.400 O.D. 3/8 Stem
	Both	1970-76	55-6305	Chrome Moly. 1.490 O.D. 3/8 Stem
Push Rod	Both	1991-95	74-6231	9.162 Length. 5/16 Dia.
	Both	1970-90	74-6380	9.200 Length 5/16 Dia.
	Exh	1970-76	74-6442	9.252 Length. 1st Des. 3/8 Dia.
	Int	1970-76	74-6230	2nd Des. 8.230 Length. 5/16
	Int	1970-76	74-6441	8.280 Length. 1st Des. 3/8 Dia.
Expansion Plug Kit		1970-90	97-10B	Brass Kit
		1991-00	97-135B	Brass Kit
<b>LINE 10</b>	<b>7780cc (7.8L) SOHC 6HK1 (Isuzu) 24V Diesel</b>		<b>L6</b>	<b>BORE - 4.53"/115mm</b>
Valve	Exh		10-13122	1.456 Head Dia. 0.312 Stem. OEM # 8972098763
	Int		10-13121	1.457 Head Dia. 0.313 Stem. OEM # 8943958822
Guide	Both		30-3101	2.245 OAL. 0.3150 I.D. 0.5526 O.D.
Valve Stem Seal	Both		38-223-55	Viton. Metal Clad.
	Both		38-962-45	Viton. Ring And Spring.
<b>LINE 11</b>	<b>496 C.I. (8.1L) 16V Vortec OHV Industrial</b>		<b>2001-09 V8</b>	<b>BORE - 4.25"/108mm</b>
Valve	Exh	2001-09	10-2126S	1.720 Head Dia. 0.372 Stem. 5.400 Length. Inconel Head. Stellite. SG. 45 Deg
	Int	2001-09	10-1164	2.190 Head Dia. 0.372 Stem. 5.225 Length. Stainless Head. SG. 45 Deg
Valve Seat Insert	Int	2001-09	20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
	Exh	2001-09	22-1784-1N	1.417T I.D. 1.7845 O.D. 0.292 Depth. May Need Depth Change.
	Exh	2001-09	22-1784-2N	Same as 22-1784-1N w/ straight I.D.
Guide	Exh	2001-09	30-3024	2.610 OAL. Replaces Integral Guide. Remove From Combustion Side.
	Int	2001-09	30-3025	2.250 OAL. Replaces Integral Guide.
Spring	Both	2001-09	32-04042	2.180 Free Length. Conical. Gasoline
	Both	2001-09	32-2522	2.212 Free Length. Conical
Keeper	Both	2001-09	34-613	1 Groove. Heat Treated.
Lifter	Both	2001-09	36-2279	Hydraulic Roller
	Both	2001-09	36-2279G	Lifter Guide, Dogbone Type
Rotator / Retainer	Both	2001-09	37-2899	Rotator. OEM # 10240899
Valve Stem Seal	Both	2001-09	38-811-55	Viton. Metal Clad.
Push Rod	Exh	2001-09	74-6639	9.132 Length
	Int	2001-09	74-6638	8.190 Length.

# HERCULES

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
66-141 C.I. IX Series, NXA, NXB		L4	1
130 C.I. (2.1L) D, DD, G, GO Series		L3	2
191 C.I. (3.1L) QX Series		L6	3
228 C.I. (3.7L) JX Series Hercules		L6	4

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>66-141 C.I. IX Series, NXA, NXB</b>			<b>L4 BORE - 2.75 - 3.25"</b>
Guide	Both		<b>30-1568</b>	2.094 OAL. 0.3120 I.D. 0.4859 O.D. Check O.D.
	Both		<b>30-1697</b>	2.093 OAL. 0.3120 I.D. 0.5328 O.D. Check O.D.
<b>LINE 2</b>	<b>130 C.I. (2.1L) D, DD, G, GO Series</b>			<b>L3 BORE - 3.50 - 4.00"</b>
Guide	Both		<b>30-1843</b>	Both - D, G Series. Int - DD, GO Series
<b>LINE 3</b>	<b>191 C.I. (3.1L) QX Series</b>			<b>L6 BORE - 3.125-3.4375"</b>
Guide	Both		<b>30-1697</b>	2.093 OAL. 0.312 I.D. 0.5328 O.D.
<b>LINE 4</b>	<b>228 C.I. (3.7L) JX Series Hercules</b>			<b>L6 BORE - 3.375 - 4.000"</b>
Guide	Both		<b>30-1618</b>	2.375 OAL. 0.3745 I.D. 0.6578 O.D.

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<b>ENGINE</b>	<b>YEAR</b>	<b>CYL.</b>	<b>LINE NO.</b>
W04D 4.0L, W04C-T3.8L		L4	1
EH700 6.4L		L6	2
EK100 428 C.I.			3

<b>COMPONENT</b>	<b>I/E/B</b>	<b>YEARS</b>	<b>PART No.</b>	<b>NOTES</b>
<b>LINE 1</b>	<b>W04D 4.0L, W04C-T3.8L</b>		<b>L4</b>	<b>BORE - 4.09"/104mm</b>
Valve Seat Insert	Exh		<b>22-1834-1</b>	1.516T I.D. 1.8349 O.D. 0.301 Depth. OEM # 11135-1320. Special Order Only
	Int		<b>22-1620-1</b>	1.404 I.D. 1.620 O.D. 0.240 Depth. OEM # 11131-1210. Special Order Only
<b>LINE 2</b>	<b>EH700 6.4L</b>		<b>L6</b>	<b>BORE - 4.33"/110mm</b>
Valve Seat Insert	Exh		<b>22-1796-1</b>	1.437T I.D. 1.7967 O.D. 0.387 Depth. OEM # 11135-1050
	Exh		<b>22-1796-2</b>	1.437T I.D. 1.7967 O.D. 0.3175 Depth. OEM # 11135-1420
	Int		<b>22-2051-1</b>	1.615T I.D. 2.051 O.D. 0.359 Depth. OEM # 11131-1040
	Int		<b>22-2051-2</b>	1.632T I.D. 2.051 O.D. 0.2985 Depth. OEM # 11131-1230
<b>LINE 3</b>	<b>EK100 428 C.I.</b>			<b>BORE - 5.3978"/137mm</b>
Valve Seat Insert	Exh		<b>22-2169-1</b>	1.777T I.D. 2.1695 O.D. 0.350 Depth. OEM # 11135-1290
	Int		<b>22-2405-1</b>	1.973T I.D. 2.405 O.D. 0.390 Depth. OEM # 11131-1260

ENGINE	YEAR	CYL.	LINE NO.
C60 (1.0L) 8V		L4	1
C113 (1.8L) 8V		L4	2
C123, U123 (2.0L) Power Unit, Tractor & LPG		L4	3
C/UC135, C146, C153		L4	4
C152, C/U164		L4	5
154 C.I. (2.5L) Diesel		L4	6
C157		L4	7
D166, D188 Diesel		L4	8
C/U169, C/U175 w/ 3-5/8" Bore		L4	9
C175 w/ 3-9/16" Bore, C200, C301		L4,6	10
C221, C282, C291, C301 12V		L6	11
232 C.I. (3.8L) 12V (AMC)		L6	12
D236 C.I. (3.9L) Diesel 12V		L6	13
Neuss Eng. D155,D179,D206,D239,D246,D268,D310,D358		L4	14
C248 (4.0L), U6		L4	15
C263 C.I. (4.3L)		L6	16
C/U264 C.I. (4.3L) Gas		L4	17
264 C.I. (4.3L) LPG		L4	18
D264 Diesel		L4	19
281 C.I. (4.6L)		L4	20
282 C.I. (4.6L) Diesel 12V		L6	21
301 C.I. (4.9L) Diesel 12V		L6	22
V304, V345		V8	23
310 C.I. (5.1L) Diesel 12V		L6	24
D335, D350, D370, D503, D525, D554, UD16/9/9A		V6	25
C335, C350		L4	26
D312, D360, DT360 Diesel 12V		L6	27
D361, DT361 (5.9L) Diesel 12V		L6	28
V392		V8	29
D407, DT407 (6.7L) Diesel 12V		L6	30
D414, DT414, D436, DT436 Diesel & Turbo		L6	31
DT429, DT573, DVT573B, UD573, UDT429		V8	32
D466, DT466, DT466B, DTI466B (7.6L) Diesel & Turbo		L6	33
530 C.I. (8.7L) Mechanical Injection 12V		L6	34
530 C.I. (8.7L) Electrical Injection 12V		L6	35
DV550B (9.0L) Diesel		V8	36
C605 (9.9L) Power Unit		V8	37
691 C.I. (11.3L) Diesel		L6	38
817 C.I. (13.4L) Diesel		L6	39

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>C60 (1.0L) 8V</b>			<b>L4 BORE - 2.625"/66.7mm</b>
Valve	Exh		10-485	0.906 Head Dia. OEM # 357547-R1
Valve Seat Insert	Exh		20-1000-1	3/4 I.D. 1 O.D. 3/16 Depth
	Int		20-1187-1	1.000 I.D. 1-3/16 O.D. 3/16 Depth
Guide	Both		30-1636	1.500 OAL. OEM # 352973-R2
	Both		30-7408	1.340 OAL. New Style - Check Length. OEM # 352973-R3
Spring	Both		32-502	2.060 OAL. OEM # 251262R1
Keeper	Both		34-614	1 Groove. Heat Treated. OEM # 46209-D.
<b>LINE 2</b>	<b>C113 (1.8L) 8V</b>			<b>L4 BORE - 3.00"/76.2mm</b>
Valve	Exh		10-312	1.156 Head Dia. Gasoline. C113 From S/N 255418. OEM # 57798-D
	Int		10-313	1.342 Head Dia. Gasoline. C113 From S/N 255418. OEM # 57797-D

**I.H.C.****TRACTORS & POWER UNITS**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 2</b>	<b>C113 (1.8L) 8V</b>			<b>L4 BORE - 3.00"/76.2mm</b>
Valve Seat Insert	Exh		20-1187-1	1.000 I.D. 1-3/16 O.D. 3/16 Depth. w/ 1.156 Valve Head Dia.
	Exh		20-1312-1	1-1/16 I.D. 1-5/16 O.D. 3/16 Depth. w/ 1.218 Valve Head Dia.
	Int		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both		30-1543	2.688 OAL. Early Type. OEM # 6088D
	Both		30-1804	2.656 OAL. Late Type. OEM # 356583-R1
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # 42026-D
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both		38-1065-70	Teflon And Rubber.
<b>LINE 3</b>	<b>C123, U123 (2.0L) Power Unit, Tractor &amp; LPG</b>			<b>L4 BORE - 3.125"/79.375mm</b>
Valve	Exh		10-312	1.156 Head Dia. Gasoline, To S/N 36000. 57798-D
	Exh		10-503	1.312 Head Dia. Gasoline, From S/N 36001. OEM # 366303-R1
	Int		10-313	1.342 Head Dia. To S/N 36000, Gasoline. OEM # 57797-D
	Int		10-504	1.500 Head Dia. Gasoline & LPG, From S/N 36001. OEM # 366302-R1
Valve Seat Insert	Exh		20-1187-1	1.000 I.D. 1-3/16 O.D. 3/16 Depth. To S/N 36000
	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Gasoline From S/N 36000. Also Avail. In Nickel, N Suffix for LPG
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Gasoline From S/N 36000
Guide	Both		30-1543	2.688 OAL. Early Type. OEM # 6088D
	Both		30-1804	2.656 OAL. Late Type. OEM # 356583-R1
Spring	Exh		32-04057	2.266 Free Length. OEM # 368450R1
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # 42026-D
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562
<b>LINE 4</b>	<b>C/UC135, C146, C153</b>			<b>L4 BORE - 3.25"/82.55mm</b>
Valve	Exh		10-503	1.312 Head Dia. OEM # 366303-R1
	Int		10-504	1.500 Head Dia. OEM # 366302-R1
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-1804	2.656 OAL. OEM # 356583-R1
Spring	Exh		32-04057	2.266 Free Length. OEM # 368450R1
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # 42026-D
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562
	Both		38-893-15	Nitrile. Umbrella.
<b>LINE 5</b>	<b>C152, C/U164</b>			<b>L4 BORE - 3.346"/85.725mm</b>
Valve	Exh		10-205	1.375 Head Dia. Gasoline. OEM # 50707-DA
	Int		10-193	1.500 Head Dia. Gasoline. OEM # 50706-DA
Valve Seat Insert	Exh		20-1437-1	1-1/4 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth
	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
Guide	Both		30-1545N	2.938 OAL. Gasoline Eng. OEM # 8049DR
	Both		30-7432	2.625 OAL
Spring	Both		32-554	2.281 Free Length. C164 (Super H)
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # 42026-D
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. Guide O.D. 0.562
Expansion Plug Kit			97-55	Steel Kit. Brass Kit Avail. In Suffix B

# I.H.C.

# TRACTORS & POWER UNITS

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>154 C.I. (2.5L) Diesel</b>			<b>L4 BORE - 3.00"/76.2mm</b>
Guide	Exh		30-1964	3.000 OAL. OEM # 3044493-R1,2
	Int		30-1963	3.250 OAL. OEM # 3044492-R1
<b>LINE 7</b>	<b>C157</b>			<b>L4 BORE - 3.346"/85.7mm</b>
Valve	Exh		10-1075S	1.516 Head Dia. OEM # 372699-R1
	Int		10-601	1.781 Head Dia. OEM # 234276-R1
Valve Seat Insert	Exh		20-1562-8	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth.
	Int		20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Exh		30-1747	2.440 OAL. Hardened. OEM # 237248R1.
	Int		30-6990	2.240 OAL. Special Iron. OEM # 535229-R1
Spring	Both		32-726	2.438 Free Length
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-893-15	Nitrile. Umbrella.
<b>LINE 8</b>	<b>D166, D188 Diesel</b>			<b>L4 BORE - 3.60"/93.6625mm</b>
Valve	Exh		10-592	1.300 Head Dia. +15 O/S Stem May Be Avail. OEM # 328300-R1
	Int		10-593	1.652 Head Dia. OEM # 278301-R1
Valve Seat Insert	Exh		20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth. Also Avail. In Nickel Matl., -N Suffix
	Int		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both		30-1881	2.844 OAL. +2 O/S Avail. OEM # 278370-R1
Spring	Both		32-646	2.266 Free Length. w/ D188
	Both		32-726	2.438 Free Length. w/ D166
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 9</b>	<b>C/U169, C/U175 w/ 3-5/8" Bore</b>			<b>L4 BORE - 3.5625"/90.4mm</b>
Valve	Exh		10-1075S	1.516 Head Dia. OEM # 372699-R1
	Int		10-601	1.781 Head Dia. OEM # 234276-R1
Valve Seat Insert	Exh		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth w/ 1.375 Valve Head Dia.
	Exh		20-1562-8	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. w/ 1.516 Valve Head Dia.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. w/ 1.500 Valve Head Dia
	Int		20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth. w/ 1.781 Valve Head Dia.
Guide			30-1747	2.440 OAL. Hardened. OEM # 237248R1.
	Both		30-1545N	2.938 OAL. OEM # 8049DR.
Spring	Both		32-554	2.281 Free Length.
Keeper	Both		34-613	Use w/ 1.871 & 1.516 Valve Head Dia. Heat Treated. OEM # 76951-R1
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-893-15	Nitrile. Umbrella.
<b>LINE 10</b>	<b>C175 w/ 3-9/16" Bore, C200, C301</b>			<b>L4,6 BORE - 3.8125"/96.8mm</b>
Valve	Exh		10-1075S	1.516 Head Dia. OEM # 372699-R1
	Int		10-601	1.781 Head Dia. OEM # 234276-R1
Valve Seat Insert	Exh		20-1562-8	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth.
	Int		20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Exh		30-1747	2.440 OAL. Hardened. w/ Farmall 460. Use For Both Int & Exh. OEM # 237248R1.



# I.H.C.

# TRACTORS & POWER UNITS

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 10</b>	<b>C175 w/ 3-9/16" Bore, C200, C301</b>			<b>L4,6 BORE - 3.8125"/96.8mm</b>
Guide	Int		<b>30-6990</b>	2.240 OAL. Special Iron. OEM # 535229-R1
Spring	Both		<b>32-726</b>	2.438 Free Length
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber. Guide O.D. 0.562
	Both		<b>38-893-15</b>	Nitrile. Umbrella.
<b>LINE 11</b>	<b>C221, C282, C291, C301 12V</b>			<b>L6 BORE - 3.5625"/90.49mm</b>
Valve	Exh		<b>10-1075S</b>	1.516 Head Dia. OEM # 372699-R1
	Int		<b>10-600</b>	1.656 Head Dia. Exc. 205, 315 & 3616. OEM # 234275-R1
	Int		<b>10-601</b>	1.781 Head Dia. 205, 315 & 3616. OEM # 234276-R1
Valve Seat Insert	Exh		<b>20-1562-8</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth.
	Int		<b>20-1687-3</b>	1-7/16 I.D. 1-11/16 O.D. 1/4 Depth. w/ 1.656 Valve Head Dia.
	Int		<b>20-1875-6</b>	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth. w/ 1.781 Valve Head Dia.
Guide	Exh		<b>30-1747</b>	2.440 OAL. Hardened. OEM # 237248R1.
	Int		<b>30-6990</b>	2.240 OAL. OEM # 535229-R1
Spring	Both		<b>32-543</b>	2.578 Free Length. w/ C282
	Both		<b>32-726</b>	2.438 Free Length. w/ C221
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		<b>38-893-15</b>	Nitrile. Umbrella.
<b>LINE 12</b>	<b>232 C.I. (3.8L) 12V (AMC)</b>			<b>L6 BORE - 3.75"/95.2mm</b>
Valve	Exh		<b>10-1325</b>	1.406 Head Dia. 4 Groove. 0.1825 Tip to Groove. +15 O/S Stem Avail.
	Exh		<b>10-1441</b>	1.406 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
	Exh		<b>10-549</b>	1.406 Head Dia. 4 Groove. 0.0875 Tip to Groove. +15 O/S Stem May Be Avail.
	Int		<b>10-1260</b>	1.787 Head Dia. 4 Groove. 0.1825 Tip to Groove. +3, 15 O/S Stem May Be Avail.
	Int		<b>10-1442</b>	1.787 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
	Int		<b>10-550</b>	1.787 Head Dia. 4 Groove. 0.0898 Tip to Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int		<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both		<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D., 30-9108H Hardened Also Avail.
Spring	Both		<b>32-1040</b>	1.910 Free Length
	Both		<b>32-1082</b>	2.035 Free Length
Keeper	Both		<b>34-613</b>	1 Groove. 3/8 Stem
	Both		<b>34-766</b>	4 Groove. Heat Treated
Lifter	Both		<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both		<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Both		<b>38-938-45</b>	Viton. Ring And Band.
Expansion Plug Kit			<b>97-1</b>	Steel Kit. Brass Kit Avail. In Suffix B

# I.H.C.

# TRACTORS & POWER UNITS

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 13</b>	<b>D236 C.I. (3.9L) Diesel 12V</b>		<b>L6</b>	<b>BORE - 3.60"/93.6625mm</b>
Valve	Exh		10-592	1.300 Head Dia. 460, UD236 To S/N 2839. +15 O/S Stem May Be Avail. OEM #328300-R1
	Exh		10-921	1.375 Head Dia. 315, 606, 2606, 3616 From S/N 2840. OEM # 349381-R1
	Int		10-593	1.652 Head Dia. 460, UD236 To S/N 2839. OEM # 278301-R1
	Int		10-922	1.679 Head Dia. 315, 606, 2606, 3616 From S/N 2840. OEM # 323774-R1
Valve Seat Insert	Exh		20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth. w/ 1.300 Valve Head Dia. Also Avail. In Nickl Matl., -N Suffix
	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. w/ 1.375 Valve Head Dia.
	Int		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.652 Valve Head Dia.
	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.679 Valve Head Dia.
Guide	Both		30-1881	2.844 OAL. +2 O/S Avail. OEM # 278370-R1
Spring			32-646	2.266 Free Length. From S/N 10984.
	Both		32-726	2.438 Free Length. From S/N 5611 To S/N 10983
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 14</b>	<b>Neuss Eng. D155,D179,D206,D239,D246,D268,D310,D3</b>		<b>L4</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh		10-10767S	1.610 Head Dia. Turbo
	Int		10-10766	1.689 Head Dia.
Valve Seat Insert	Exh		20-1687-1	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth. Also Avail. In Non-Magnetic Matl. In -N Suffix
	Int		20-1750-4	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Also Avail. In Non-Magnetic Matl. -N Suffix
Guide	Both		30-7548	3.040 OAL. Plain I.D. OEM # 3055022-R2. I.D. Must Be Reamed To Size.
Spring	Both		32-04056	2.175 Free Length. OEM # 3055060R1
Injector Component			87-5344	Injector Tube. Copper. OEM # 3055344
<b>LINE 15</b>	<b>C248 (4.0L), U6</b>		<b>L4</b>	<b>BORE - 3.875"/98.4mm</b>
Valve	Exh		10-203	1.656 Head Dia. Gasoline. OEM # 50732-DA
	Int		10-204	1.812 Head Dia. Gasoline. OEM # 50731-DA
	Int		10-207	1.812 Head Dia. OEM # 57698-D
Valve Seat Insert	Exh		20-1812-7	1-7/16 I.D. 1-13/16 O.D. 1/4 Depth
	Int		20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both		30-1547N	3.219 OAL. Gasoline Only. OEM # 8044D
	Both		30-7410	1.340 OAL
Spring	Both		32-543	2.578 Free Length. w/ Rotocaps
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
<b>LINE 16</b>	<b>C263 C.I. (4.3L)</b>		<b>L6</b>	<b>BORE - 3.5625"/90.49mm</b>
Valve	Exh		10-1075S	1.516 Head Dia. 50, 403, 560, 615, 656, 660, 706, UC263, 2656, 2706, 3600A, 3800A, 3850
	Int		10-600	1.656 Head Dia. 403 Combine To S/N 7087, UC263 To S/N 56635. 560, 660 Tractor. OEM # 234275-R1
	Int		10-601	1.781 Head Dia. 403 Combine To S/N 7087, UC263 From S/N 56635, 615 Combine, 50 Harvester. OEM # 234276-R1
Valve Seat Insert	Exh		20-1562-8	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. w/ 1.516 Valve Head Dia.
	Int		20-1875-6	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth. w/ 1.781 Valve Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 16</b>	<b>C263 C.I. (4.3L)</b>			<b>L6 BORE - 3.5625"/90.49mm</b>
Guide	Both		30-1747	2.440 OAL. Hardened. Both For 560, 660, UC263 To S/N 95245. OEM # 237248R1.
	Int		30-6990	2.240 OAL. Special Iron. 403, 615, 50, UC263 From S/N 95245. OEM # 535229-R1
Spring	Both		32-726	2.438 Free Length.
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		38-893-15	Nitrile. Umbrella.
<b>LINE 17</b>	<b>C/U264 C.I. (4.3L) Gas</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve	Exh		10-203	1.656 Head Dia. 5.844 OAL, Super M, MV, W6, U264 Gasoline. OEM # 50732-DA
	Exh		10-427S	1.656 Head Dia. 6.083 OAL. 400, W400 To S/N 161365, T6-61 Gasoline. OEM # 362436-R1
	Int		10-204	1.812 Head Dia. 5.848 OAL. Super M, MV, W6, U264, Gasoline. OEM # 50731-DA
	Int		10-428	1.812 Head Dia. 6.083 OAL, 400, W400 To S/N 161365, T6-61 Gasoline. OEM # 362435-R1
Valve Seat Insert	Exh		20-1812-7	1-7/16 I.D. 1-13/16 O.D. 1/4 Depth
	Int		20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Int		20-1937-4	1-9/16 I.D. 1-15/16 O.D. 1/4 Depth
Guide	Both		30-1547N	3.219 OAL. Farmall 400, W400 To S/N 161365. OEM # 8044D.
Spring	Both		32-543	2.578 Free Length.
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 18</b>	<b>264 C.I. (4.3L) LPG</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve	Exh		10-427S	1.656 Head Dia. To S/N 161408. OEM # 362436-R1
	Int		10-428	1.812 Head Dia. To S/N 161408. OEM # 362435-R1
Valve Seat Insert	Exh		20-1812-7	1-7/16 I.D. 1-13/16 O.D. 1/4 Depth
	Int		20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Int		20-1937-4	1-9/16 I.D. 1-15/16 O.D. 1/4 Depth
Guide	Both		30-1547N	3.219 OAL. To S/N 161408. OEM # 8044D
Spring	Both		32-543	2.578 Free Length.
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 19</b>	<b>D264 Diesel</b>			<b>L4 BORE - 4.00"/101.6mm</b>
Valve Seat Insert	Exh		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		30-1579	3.750 OAL. OEM # 8044D
	Both		30-4941	2.063 OAL
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
<b>LINE 20</b>	<b>281 C.I. (4.6L)</b>			<b>L4 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-427S	1.656 Head Dia. Gasoline. OEM # 362436-R1
	Int		10-428	1.812 Head Dia. Gasoline. OEM # 362435-R1
Valve Seat Insert	Exh		20-1812-7	1-7/16 I.D. 1-13/16 O.D. 1/4 Depth
	Int		20-1875-1	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>281 C.I. (4.6L)</b>			<b>L4 BORE - 4.125"/104.775mm</b>
Guide	Both		30-1547N	3.219 OAL. Gas. OEM # 8044D
	Both		30-7410	2.781 OAL. Machined for Seal.
Spring	Both		32-543	2.578 Free Length.
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Valve Stem Seal	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 21</b>	<b>282 C.I. (4.6L) Diesel 12V</b>			<b>L6 BORE - 3.60"/93.6625mm</b>
Valve	Exh		10-592	1.300 Head Dia. H50A, H50B, H50C, UD282 To S/N 3623, 560, 660, TD6, TD9-62 Series To S/N 40698. +15 O/S Stem May Be Avail. OEM # 328300-R1
	Exh		10-921	1.375 Head Dia. 403, 416, 422, 615, 656, 706, 2656, 2706, 3600A, 3800, 3850 All, H50A, H50B, H50C, UD282 From S/N 3624, 560, 660, TD6, TC9-62 Series From S/N 40699. OEM # 349381-R1
	Int		10-593	1.652 Head Dia. H50A, H50B, H50C, UD282 To S/N 3623, 560, 660, TD6, TD9-62 Series To S/N 40698. OEM # 278301-R1
	Int		10-922	1.679 Head Dia. 403, 416, 422, 615, 656, 706, 2656, 2706, 3600A, 3800, 3850 All, H50A, H50B, H50C, UD282 From S/N 3624, 560, 660, TD6, TC9-62. OEM # 323774-R1
Valve Seat Insert	Exh		20-1375-1	1-1/8 I.D. 1-3/8 O.D. 7/32 Depth. w/ 1.300 Valve Head Dia. Also Avail. In Nickl Matl., -N Suffix
	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. w/ 1.375 Valve Head Dia.
	Int		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth. w/ 1.652 Valve Head Dia.
	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.679 Valve Head Dia.
Guide	Both		30-1881	2.844 OAL. +2 O/S Avail. OEM # 278370-R1
Spring	Both		32-726	2.438 Free Legnth. Int. w/ Rotocaps And Exh.
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-915-25	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail.
	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit			97-24	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 22</b>	<b>301 C.I. (4.9L) Diesel 12V</b>			<b>L6 BORE - 3.8125"/96.84mm</b>
Valve	Exh		10-921	1.375 Head Dia. OEM # 349381-R1
	Int		10-922	1.679 Head Dia. OEM # 323774-R1
Valve Seat Insert	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. +3, +30 O/S
	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both		30-1881	2.844 OAL. +2 O/S Avail. OEM # 278370-R1
Spring	Both		32-726	2.438 Free Length.
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-530-25	Polyacrylic. Umbrella. Nitrile Matl. 38-530-15, Viton -45 Also Avail.
<b>LINE 23</b>	<b>V304, V345</b>			<b>V8 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-559S	1.609 Head Dia. +15 O/S Stem Avail. OEM # 151443-R3
	Int		10-560	1.969 Head Dia. +15 O/S Stem May Be Avail. OEM # 151269-R2
Valve Seat Insert	Exh		22-1678-1	1.446 I.D. 1.6785 O.D. 0.312 Depth. +10, & +20 O/S Avail.
	Int		22-2015-1	1-53/64 I.D. 2.015 O.D. 3/16 Depth. +10, & +20 O/S Avail.
Guide	Both		30-1836	2.906 OAL. Hardened. OEM # 151798-R1
	Both		30-7876	2.906 OAL. Same As 30-1836 w/ 0.002 Smaller I.D.
Spring	Both		32-887-D	2.050 Free Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 23</b>	<b>V304, V345</b>			<b>V8 BORE - 3.875"/98.4mm</b>
Lifter	Both		36-855	Hydraulic
Valve Stem Seal	Both		38-1068-70	Teflon And Rubber.
	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			97-23	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 24</b>	<b>310 C.I. (5.1L) Diesel 12V</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Guide	Both		30-7548	3.040 OAL. Plain I.D. OEM # 3055022-R2
<b>LINE 25</b>	<b>D335, D350, D370, D503, D525, D554, UD16/9/9A</b>			<b>V6 BORE - 4.4, 4.5, 4-5/8"</b>
Valve Seat Insert	Exh		20-1687-3N	1-7/16 I.D. 1-11/16 O.D. 1/4 Depth. w/ 1.656 Valve Head Dia. Nickel
	Int		20-2000-2	1-11/16 I.D. 2.000 O.D. 9/32 Depth
Guide	Both		30-1578	3.970 OAL. OEM # 6608DR
	Both		30-4941	2.063 OAL. Starting Engine Guide
Keeper	Both		34-614	Heat Treated. 1 Groove.
<b>LINE 26</b>	<b>C335, C350</b>			<b>L4 BORE - 4.40"/111.8mm</b>
Valve Seat Insert	Exh		20-2062-8	1-11/16 I.D. 2-1/16 O.D. 9/32 Depth
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail. Cast Iron Heads
Guide	Both		30-1727	3.750 OAL
<b>LINE 27</b>	<b>D312, D360, DT360 Diesel 12V</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1519	1.455 Head Dia. OEM # 675573-C2,3
	Exh		10-1574S	1.455 Head Dia. Turbo Only. OEM # 1810086-C1,2
	Int		10-1520	1.710 Head Dia. OEM # 676687-C1-4
Valve Seat Insert	Exh		22-1536-2N	1.255T I.D. 1.5365 O.D. 0.3585 Depth, +15 O/S Avail., OEM # 671599CI & 675576CI
	Int		22-1782-1	1.490T I.D. 1.7825 O.D. 0.3400 Depth, +15 O/S Avail., OEM # 671602CI & 675441 CI
Guide	Both		30-7431	2.750 OAL. OEM # 675439-C1
Spring	Both		32-1178	2.400 Free Length. OEM # 682064C1
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Rotator / Retainer			37-1581	Rotator. OEM # 1811581C91
<b>LINE 28</b>	<b>D361, DT361 (5.9L) Diesel 12V</b>			<b>L6 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-923	1.625 Head Dia. OEM # 612313-C1
	Int		10-924	1.940 Head Dia. OEM # 670308-C1
Valve Seat Insert	Int		20-2000-18	1-3/4 I.D. 2.000 O.D. 5/16 Depth
	Exh		22-1657-1	1.312T I.D. 1.657 O.D. 0.395 Depth
Guide	Both		30-1957	3.172 OAL. OEM # 326505-R3
Spring	Both		32-220	2.563 Free Length. Outer. OEM # 62265-VA
	Both		32-221	2.344 Free Length. Inner. OEM # 62264-VA
Keeper	Both		34-803	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Injector Component			87-6503	Injector Tube. Brass. OEM # 326503R1
<b>LINE 29</b>	<b>V392</b>			<b>V8 BORE - 4.125"/104.8mm</b>
Valve	Exh		10-1133S	1.734 Head Dia.
	Int		10-1152	2.078 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Int		20-2125-3	1-15/16 I.D. 2-1/8 O.D. 3/16 Depth

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 29</b>	<b>V392</b>			<b>V8 BORE - 4.125"/104.8mm</b>
Valve Seat Insert	Exh		<b>22-1803-1</b>	1.571 I.D. 1.8035 O.D. 0.312 Depth
Guide	Exh		<b>30-1968</b>	2.906 OAL. O.E. Style. OEM # 874913-R2
	Exh		<b>30-8223</b>	Same As 30-1968 Exc. Counterbored. Recommended.
	Int		<b>30-1836</b>	2.906 OAL. Hardened. OEM # 151798-R1
	Int		<b>30-7859</b>	Same As 30-1836 w/ 0.001 Smaller I.D.
	Keeper	Both		<b>34-613</b>
Lifter	Both		<b>36-855</b>	Hydraulic
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			<b>97-23</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 30</b>	<b>D407, DT407 (6.7L) Diesel 12V</b>			<b>L6 BORE - 4.32"/109.753mm</b>
Valve	Exh		<b>10-923</b>	1.625 Head Dia. OEM # 612313-C1
	Int		<b>10-924</b>	1.940 Head Dia. OEM # 670308-C1
Guide	Both		<b>30-1957</b>	3.172 OAL. OEM # 326505-R3
Spring	Int		<b>32-220</b>	Outer. 2.563 Free Length
	Int		<b>32-221</b>	Inner. 2.344 Free Length
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Rotator / Retainer	Both		<b>37-1581</b>	Rotator. OEM # 1811581C91
Injector Component			<b>87-6503</b>	Injector Tube. Brass. OEM # 326503R1
<b>LINE 31</b>	<b>D414, DT414, D436, DT436 Diesel &amp; Turbo</b>			<b>L6 BORE - 4.30"/109.22mm</b>
Valve	Exh		<b>10-1422S</b>	1.600 Head Dia. OEM # 676865-C2,4.
	Int		<b>10-1423</b>	1.970 Head Dia. OEM # 675046-C2,4.
Valve Seat Insert	Exh		<b>22-1628-1N</b>	1.348T I.D. 1.6285 O.D. 0.365 Depth. +10, 13, 20, 30 O/S Avail.
	Int		<b>22-2001-1</b>	1.712T I.D. 2.001 O.D. 0.385 Depth. +10, +13, +20 & +30 O/S Avail.
Guide	Both		<b>30-7431</b>	2.750 OAL. OEM # 675439-C1. To 1989
	Both		<b>30-8188</b>	From 1990. 2.610 OAL. OEM # 1815264-C1
Spring	Both		<b>32-1178</b>	2.400 Free Length. OEM # 682064C1
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
Rotator / Retainer	Both		<b>37-1581</b>	Rotator. OEM # 1811581C91
Valve Stem Seal	Both		<b>38-0234-35</b>	GF Nylon. Umbrella
<b>LINE 32</b>	<b>DT429, DT573, DVT573B, UD573, UDT429</b>			<b>V8 BORE - 4.50"/114.3MM</b>
Guide	Both		<b>30-6914</b>	3.695 OAL. OEM # 341059-R1
Keeper	Both		<b>34-802</b>	1 Groove. Heat Treated
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
<b>LINE 33</b>	<b>D466, DT466, DT466B, DTI466B (7.6L) Diesel &amp; Turbo</b>			<b>L6 BORE - 4.30"/109.22mm</b>
Valve	Exh		<b>10-1422S</b>	1.600 Head Dia. OEM # 676865-C2,4.
	Int		<b>10-1423</b>	1.970 Head Dia. OEM # 675046-C2,4.
Valve Seat Insert	Exh		<b>22-1628-1N</b>	1.348T I.D. 1.6285 O.D. 0.365 Depth. +10, 13, 20, 30 O/S Avail.
	Int		<b>22-2001-1</b>	1.712T I.D. 2.001 O.D. 0.385 Depth. +10, 13, 20, 30 O/S Avail.
Guide	Both		<b>30-7431</b>	2.750 OAL. OEM # 675439-C1
	Both		<b>30-8188</b>	2.610 OAL. OEM # 1815264-C1
Spring	Both		<b>32-1178</b>	2.400 Free Length. OEM # 682064C1
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. S/N 140086 and Below. OEM # 911776

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 33</b>	<b>D466, DT466, DT466B, DTI466B (7.6L) Diesel &amp; Turbo</b>			<b>L6 BORE - 4.30"/109.22mm</b>
Lifter	Both		<b>36-2082</b>	Mechanical. 1.120 Dia. S/N 140087 To 532980 w/o Valve Train Improvement Package. OEM # 1802340
	Both		<b>36-7096</b>	Mechanical Roller. OEM # 1809570 C1-4.
Rotator / Retainer	Both		<b>37-1581</b>	Rotator. OEM # 1811581C91
Valve Stem Seal	Both		<b>38-0234-35</b>	GF Nylon. Umbrella
	Both		<b>38-3295-45</b>	Viton. Top Hat. 3/8 Stem. OEM # 1823925C1. Use with short guide, 30-8188.
	Both		<b>38-466-45</b>	Viton. Top Hat. OEM # 1815374C1. Use with long guide, 30-7431.
Push Rod			<b>74-5621</b>	OEM # 675621
Expansion Plug Kit			<b>97-111S</b>	Stainless Steel Kit
<b>LINE 34</b>	<b>530 C.I. (8.7L) Mechanical Injection 12V</b>			<b>L6 BORE - 4.59"/116.6mm</b>
Valve	Exh		<b>10-1900S</b>	5/16 Stem Dia. 1.600 Head Dia. OEM # 1818579-C1, 1824838-C1
	Exh		<b>10-1944S</b>	3/8 Stem Dia. 1.600 Head Dia. OEM # 1824842-C1
	Int		<b>10-1899</b>	5/16 Stem Dia. 1.970 Head Dia. OEM # 1818580-C1
	Int		<b>10-1943</b>	3/8 Stem Dia. 1.970 Head Dia. OEM # 1824642-C1,2
Valve Seat Insert	Exh		<b>22-1626-1N</b>	1.348T I.D. 1.626 O.D. 0.365 Depth. OEM # 675450-C3
	Int		<b>22-1999-1</b>	1.712T I.D. 1.999 O.D. 0.386 Depth. OEM # 675043-C1
Guide	Both		<b>30-3006</b>	For 3/8 Stem. 3.377 OAL. OEM # 4824646-C1
	Both		<b>30-8476</b>	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.565 O.D. 0.3146 I.D.
Spring	Exh		<b>32-04009</b>	2.580 Free Length. OEM # 1825540-C1
	Int		<b>32-04010</b>	2.357 Free Length. OEM # 677349-C1
Keeper	Both		<b>34-00944</b>	1 Groove. 5/16 Stem. OEM # 1810944C1
	Both		<b>34-04644</b>	1 Round Groove. 3/8 Stem. OEM # 1824644C1
Lifter	Both		<b>36-7096</b>	Mechanical Roller. OEM # 1809570 C1-4.
Rotator / Retainer	Both		<b>37-4680</b>	Rotator. Incl. Oil Shield. OEM # 1824680C1
Valve Stem Seal	Both		<b>38-2245-45</b>	For 5/16 Stem Dia. OEM # 1822245-C1. Top Hat Style. Viton
	Both		<b>38-3295-45</b>	Viton. Top Hat. 3/8 Stem. OEM # 1823925C1
Injector Component			<b>87-5442</b>	Injector Tube. OEM # 675442C1
<b>LINE 35</b>	<b>530 C.I. (8.7L) Electrical Injection 12V</b>			<b>L6 BORE - 4.59"/116.6mm</b>
Valve	Exh		<b>10-1946S</b>	1.786 Head Dia. 45 Degree Seat. OEM # 1824840-C1
	Int		<b>10-1945</b>	1.786 Head Dia. 30 Degree Seat. OEM # 1823875-C1
	Int		<b>10-2131</b>	1.970 Head Dia. OEM # 18226471-C2
Valve Seat Insert	Exh		<b>22-1811-2N</b>	1.548T I.D. 1.811 O.D. 0.334 Depth OEM # 1821903-C3
	Exh		<b>22-1811-3</b>	1.548T I.D. 1.811 O.D. 0.334 Depth. OEM # 1830711.
	Int		<b>22-1823-1</b>	1.560T I.D. 1.823 O.D. 0.273 Depth OEM # 1821901-C1
	Int		<b>22-2001-1</b>	1.712T I.D. 2.001 O.D. 0.385 Depth. OEM # 1827121-C2. Use w/ 10-2131. Depth May Need Machining
Guide	Both		<b>30-8188</b>	2.610 OAL. OEM # 1815264-C1
Spring	Exh		<b>32-04009</b>	2.580 Free Length. OEM # 1825540-C1
	Int		<b>32-04010</b>	2.357 Free Length. OEM # 677349-C1
Keeper	Both		<b>34-04644</b>	1 Round Groove. OEM # 1824644C1
Lifter	Both		<b>36-7096</b>	Mechanical Roller. OEM # 1809570 C1-4.
Rotator / Retainer	Both		<b>37-4680</b>	Rotator. Incl. Oil Shield. OEM # 1824680C1
Valve Stem Seal	Both		<b>38-3295-45</b>	Viton. Top Hat. 3/8 Stem
Injector Component			<b>87-8778</b>	Injector Tube. OEM # 1818778C2,C3.

**I.H.C.****TRACTORS & POWER UNITS**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 36</b>	<b>DV550B (9.0L) Diesel</b>			<b>V8 BORE - 4.50"/114.3mm</b>
Guide	Both		<b>30-7336</b>	2.960 OAL. Check O.D. Size. 0.689 O.D. OEM # 428046-C1
<b>LINE 37</b>	<b>C605 (9.9L) Power Unit</b>			<b>V8 BORE - 4.625"/117mm</b>
Valve	Exh		<b>10-1506S</b>	1.805 Head Dia. OEM # 448454C1
	Int		<b>10-1507</b>	2.157 Head Dia. OEM # 487879C1
Valve Seat Insert	Exh		<b>20-2000-3N</b>	1-5/8 I.D. 2.000 O.D. 19/64 Depth. Nickel Matl.
	Int		<b>20-2250-1</b>	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail.
Guide	Exh		<b>30-7456</b>	3.060 OAL. OEM # 448229-C1
	Int		<b>30-7457</b>	3.090 OAL. OEM # 448219-C2
Spring	Both		<b>32-887-D</b>	2.050 Free Length. w/ Rotocaps. OEM # 317365C11
Keeper	Both		<b>34-802</b>	1 Groove. Heat Treated
<b>LINE 38</b>	<b>691 C.I. (11.3L) Diesel</b>			<b>L6 BORE - 4.75"/120.7mm</b>
Guide	Both		<b>30-4944</b>	2.688 OAL. OEM # 251103-R1
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated.
Valve Stem Seal	Both		<b>38-1043-70</b>	Teflon And Rubber.
<b>LINE 39</b>	<b>817 C.I. (13.4L) Diesel</b>			<b>L6 BORE - 5.375"/136.5mm</b>
Guide	Both		<b>30-6913</b>	3.438 OAL. OEM # 277577-R1



ENGINE	YEAR	CYL.	LINE NO.
D150, D170, D190, DV462/B, DV550/B		L6,V8	1
4-152, V304, V304A, V345, V345A		L4,V8	2
4-196		L4	3
GRD214/A, GRD233A, HD213/A, HD232/A/C	1937-49	L6	4
BD220, BD240, BG220, BG240, SD220, SD240		L6	5
6-232, 6-258 AMC	1969-78	L6	6
BLD250, FAB241, FAB259	1937-40	L6	7
BD264, BG264, BG265		L6	8
BD269, BLD269 & BLD269A	1942-56	L6	9
BD282, BD308	1953-69	L6	10
D301		L6	11
RED318, RED318A		L6	12
360 C.I. (5.9L) Diesel & Turbo 12V		L6	13
FBB361, FBC361, FBC401, RED361/A, RED401/A,	1938-49	L6	14
6.0L (365 C.I.) 32V Diesel Powerstroke		V8	15
RD372		L6	16
6.4L (389 C.I.) 32V Turbo Diesel		V8	17
392 C.I. (6.4L) V392		V8	18
V400	1974-75	V8	19
V/S401, V461, V/S478, V/S549, FTV/S549		V8	20
MV404, MV446		V8	21
RD406, RD450, RD501		L6	22
D407, DT407 (6.7L) Diesel & Turbo 12V		L6	23
6.9L (420 C.I.) Diesel	1971-90	V8	24
7.3L (445 C.I.) Diesel Powerstroke, Turbo	1988-05	V8	25
RED450, RED450A		L6	26
7.6L (466), 9.3L (570) Elec. Inj. 24V "MaxxForce"		L6	27
D466 C.I. (7.6L) DT466, DT466B & DTI466B		L6	28
466 C.I. (7.6L) Turbo Mech. Inj., DT408 (6.7L) 12V		L6	29
466 C.I. (7.6L) Electrical Inj. HEUI 12V		L6	30
530 C.I. (8.7L) Mechanical Injection 12V		L6	31
530 C.I. (8.7L) Electrical Injection 12V		L6	32
V537, V605		V8	33
551 C.I. (9.0L) Diesel 16V		V8	34

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>D150, D170, D190, DV462/B, DV550/B</b>			<b>L6,V8 BORE - 4.125"/104.8mm</b>
Guide	Int		<b>30-1940</b>	3.270 OAL. OEM # 321843C1
	Int		<b>30-7336</b>	Both Special Iron. Smaller O.D. 0.689. OEM # 428046-C1
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
<b>LINE 2</b>	<b>4-152, V304, V304A, V345, V345A</b>			<b>L4,V8 BORE - 3.875"/98.4mm</b>
Valve	Exh		<b>10-559S</b>	1.609 Head Dia. +15 O/S Stem Avail. OEM # 151443-R3
	Int		<b>10-560</b>	1.969 Head Dia. +15 O/S Stem May Be Avail. OEM # 151269-R2
Valve Seat Insert	Exh		<b>22-1678-1</b>	1.446 I.D. 1.6785 O.D. 0.312 Depth. +10, & +20 O/S Avail.
	Int		<b>22-2015-1</b>	1-53/64 I.D. 2.015 O.D. 3/16 Depth. +10, & +20 O/S Avail.
Guide	Both		<b>30-1836</b>	2.906 OAL. Hardened. OEM # 151798-R1
	Both		<b>30-7876</b>	Same As 30-1836 w/ 0.002 Smaller I.D.
Spring	Both		<b>32-887-D</b>	2.050 Free Length. OEM # 317365-C11
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-855</b>	Hydraulic.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 2</b>	<b>4-152, V304, V304A, V345, V345A</b>			<b>L4,V8 BORE - 3.875"/98.4mm</b>
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			<b>97-23</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 3</b>	<b>4-196</b>			<b>L4 BORE - 4.125"/104.8mm</b>
Valve	Exh		<b>10-1133S</b>	1.734 Head Dia.
	Int		<b>10-1152</b>	2.078 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Int		<b>20-2125-3</b>	1-15/16 I.D. 2-1/8 O.D. 3/16 Depth
	Exh		<b>22-1803-1</b>	1.571 I.D. 1.8035 O.D. 0.312 Depth
Guide	Exh		<b>30-1968</b>	2.906 OAL. Special Iron - O.E. Style. OEM # 874913-R2
	Exh		<b>30-8223</b>	2.906 OAL. Same As 30-1968 Exc. Counterbored. Recommended.
	Int		<b>30-1836</b>	2.906 OAL. Hardened. OEM # 151798-R1
	Int		<b>30-7859</b>	Same As 30-1836 w/ 0.001 Smaller I.D.
	Int		<b>30-8456</b>	2.906 OAL. Same As 30-1836 Exc. Counterbored.
Spring	Both		<b>32-887-D</b>	2.050 Free Length. OEM # 317365-C11
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-855</b>	Hydraulic
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			<b>97-55</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 4</b>	<b>GRD214/A, GRD233A, HD213/A, HD232/A/C</b>			<b>1937-49 L6 BORE - 3.3125"/84.1mm</b>
Valve Seat Insert	Exh		<b>20-1562-6</b>	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth.
	Int		<b>20-1812-5</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
<b>LINE 5</b>	<b>BD220, BD240, BG220, BG240, BG241, SD220, SD240</b>			<b>L6 BORE - 3.58"/91 mm</b>
Valve	Int	1960-68	<b>10-600</b>	1.656 Head Dia. OEM # 234275R1
Valve Seat Insert	Exh		<b>20-1562-8</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth.
	Int		<b>20-1687-3</b>	1-7/16 I.D. 1-11/16 O.D. 1/4 Depth. w/ 1.656 Valve Head Dia.
	Int		<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both		<b>30-1747</b>	2.440 OAL. Hardened. OEM # 237248R1.
Spring	Both		<b>32-646</b>	2.266 Free Length. w/ Rotocaps
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 6</b>	<b>6-232, 6-258 AMC</b>			<b>1969-78 L6 BORE - 3.75"/95.25mm</b>
Valve	Exh	1969-78	<b>10-1325</b>	1.406 Head Dia. 4 Groove From S/N 507AO1. +3, 15 O/S Stem Avail.
	Exh	1969-78	<b>10-1441</b>	1.406 Head Dia. 1 Groove. +3, +15 O/S Stem May Be Avail.
	Int	1969-78	<b>10-1260</b>	1.787 Head Dia. 4 Groove From S/N 507AO1. +3, 15 O/S Stem May Be Avail.
	Int	1969-78	<b>10-1442</b>	1.787 Head Dia. 1 Groove. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh	1969-78	<b>20-1500-1</b>	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth.
	Int	1969-78	<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both	1969-78	<b>30-9108</b>	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D., 30-9108H Hardened Also Avail.
Spring	Both	1969-78	<b>32-1040</b>	Use w/ Rotator. 1.910 Free Length. OEM # 445367-C1
	Both	1969-78	<b>32-1082</b>	w/o Rotator 2.035 Free Length

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>6-232, 6-258 AMC</b>		<b>1969-78 L6</b>	<b>BORE - 3.75"/95.25mm</b>
Spring	Both	1969-78	<b>32-863</b>	2.260 Free Length.
Keeper	Both	1969-78	<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
	Both	1969-78	<b>34-766</b>	4 Groove. Heat Treated
	Exh	1969-78	<b>34-555</b>	11/32 Stem. 1 Square Groove. Heat Treated. OEM # 42026-D.
Lifter	Both	1969-78	<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both	1969-78	<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Both	1969-78	<b>38-910-25</b>	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
Expansion Plug Kit		1969-78	<b>97-1</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 7</b>	<b>BLD250, FAB241, FAB259</b>		<b>1937-40 L6</b>	<b>BORE - 3.375"/85.7mm</b>
Valve Seat Insert	Exh		<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
<b>LINE 8</b>	<b>BD264, BG264, BG265</b>		<b>L6</b>	<b>BORE - 3.685"/93.6mm</b>
Valve	Int		<b>10-601</b>	1.781 Head Dia. OEM # 234276R1
Valve Seat Insert	Exh		<b>20-1562-8</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth.
	Int		<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Guide	Both		<b>30-1747</b>	2.440 OAL. Hardened. OEM # 237248R1.
Spring	Both		<b>32-646</b>	2.266 Free Length. w/ Rotocaps
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
	Exh		<b>34-800</b>	1 Groove. Heat Treated
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		<b>38-893-15</b>	Nitrile. Umbrella.
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 9</b>	<b>BD269, BLD269 &amp; BLD269A</b>		<b>1942-56 L6</b>	<b>BORE - 3.5625"/90.49mm</b>
Valve Seat Insert	Exh		<b>20-1562-1</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
	Int		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber. 0.341 Stem Dia.
	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit		1942-56	<b>97-24</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 10</b>	<b>BD282, BD308</b>		<b>1953-69 L6</b>	<b>BORE - 3.80"/96.8mm</b>
Valve Seat Insert	Exh		<b>20-1750-3</b>	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth. -N Nickel Matl. Also Avail.
	Int		<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
Keeper	Exh		<b>34-800</b>	1 Groove. Heat Treated
	Int		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2041</b>	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit			<b>97-24</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 11</b>	<b>D301</b>		<b>L6</b>	<b>BORE - 3.80"/96.8mm</b>
Valve	Exh		<b>10-592</b>	1.300 Head Dia. To eng. No. 3228. OEM # 328300R1
	Exh		<b>10-921</b>	1.375 Head Dia. From Eng. No. 3229. OEM # 349381R1
	Int		<b>10-593</b>	1.652 Head Dia. To Eng. No. 3228. OEM # 278301-R1
	Int		<b>10-922</b>	1.679 Head Dia. From Eng. No 3229. OEM # 323774R1

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>D301</b>			<b>L6 BORE - 3.80"/96.8mm</b>
Valve Seat Insert	Exh		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
	Int		20-1687-2	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both		30-1881	2.844 OAL. +2 O/S Avail. OEM # 278370-R1
Spring	Both		32-646	2.266 Free Length. From From Eng. No. 3229
	Both		32-726	2.438 Free Length. To S/N 3228
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1
Lifter	Both		36-2041	Mechanical. 0.997 Dia. OEM # 911776
Valve Stem Seal	Both		38-893-15	Nitrile. Umbrella. To Eng. No. 3228
	Both		38-915-25	Polyacrylic. Umbrella. Nitrile Matl. 38-915-15 Also Avail. From Eng. 3229
	Both		38-921-25	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
<b>LINE 12</b>	<b>RED318, RED318A</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Exh		20-1625-3	1-5/16 I.D. 1-5/8 O.D. 1/4 Depth.
	Int		20-2375-1	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh		30-1936	2.813 OAL. New Style, Machined For Seal. OEM # 90316R3
	Int		30-1696	3.062 OAL. New Style, Machined For Seal. OEM # 90317R1
Spring	Both		32-220	2.563 Free Length. Outer. OEM # 62265-VA
	Both		32-221	2.344 Free Length. Inner. OEM # 62264-VA
Keeper	Both		34-803	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
<b>LINE 13</b>	<b>360 C.I. (5.9L) Diesel &amp; Turbo 12V</b>			<b>L6 BORE - 3.80"/98.4mm</b>
Valve	Exh		10-1519	1.455 Head Dia. Non-Turbo. OEM # 675573-C2,3
	Exh		10-1574S	1.455 Head Dia. Turbo. OEM # 1810086-C1,2
	Int		10-1520	1.710 Head Dia. OEM # 676687-C1-4
Valve Seat Insert	Exh		22-1536-2N	1.255T I.D. 1.5365 O.D. 0.3585 Depth, +15 O/S Avail., OEM # 671599CI & 675576CI
	Int		22-1782-1	1.490T I.D. 1.7825 O.D. 0.3400 Depth, +15 O/S Avail., OEM # 671602CI & 675441 CI
Guide	Both		30-7431	2.750 OAL. OEM # 675439-C1
Spring	Both		32-1178	2.400 Free Length. OEM # 682064C1
Keeper	Both		34-613	1 Groove. Heat Treated
Valve Stem Seal	Both		38-466-45	Viton. Top Hat. OEM # 1815374C1. Use with long guide, 30-7431.
Injector Component			87-5442	Injector Tube. OEM # 675442C1
<b>LINE 14</b>	<b>FBB361, FBC361, FBC401, RED361/A, RED401/A,</b>		<b>1938-49</b>	<b>L6 BORE - 4.125"/104.7mm</b>
Valve Seat Insert	Exh		20-1750-8	1-3/8 I.D. 1-3/4 O.D. 1/4 Depth.
	Int		20-2375-2	2.000 I.D. 2-3/8 O.D. 9/32 Depth
Guide	Exh		30-1936	2.813 OAL. New Style, Machined For Seal. OEM # 90316R3
	Int		30-1696	3.062 OAL. New Style, Machined For Seal. OEM # 90317R1
Spring	Both		32-220	2.563 Free Length. Outer. OEM # 62265-VA
	Both		32-221	2.344 Free Length. Inner. OEM # 62264-VA
Keeper	Both		34-803	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Expansion Plug Kit			97-92	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 15</b>	<b>6.0L (365 C.I.) 32V Diesel Powerstroke</b>			<b>V8 BORE - 3.74"/94.9mm</b>
Valve	Exh		10-2180	1.102 Head Dia.
	Int		10-2179	1.339 Head Dia.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 15</b>	<b>6.0L (365 C.I.) 32V Diesel Powerstroke</b>			<b>V8 BORE - 3.74"/94.9mm</b>
Valve Seat Insert	Int		<b>20-1375-2</b>	1.125 I.D. 1.3795 Exact O.D. 0.250 Depth. May Need Machining. -N Suffix Nont Magnetic Also Avail.
	Exh		<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth. May Need Machining
	Exh		<b>22-1161-1+030</b>	0.910T I.D. 1.191 O.D. 0.222 Depth. May Need Machining. +10, 20, 30, 40, 50, 63 Avail. Non-Magnetic
	Exh		<b>22-1221-2N</b>	0.906 I.D. 1.221 O.D. 0.335 Depth. Non-Magnetic Nickel Matl.
	Exh		<b>22-1260-1N</b>	0.945 I.D. 1.2598 O.D. 0.335 Depth. May Need Machining
	Int		<b>22-1375-1</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +10 O/S Avail.
	Int		<b>22-1375-2N</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail.
Guide	Both		<b>30-3055</b>	2.331 OAL. 0.2765 I.D. +2, 5 O/S Avail.
Spring	Both		<b>32-04040</b>	2.076 Free Length
Keeper	Both		<b>34-5009</b>	1 Round Groove
Lifter	Both		<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both		<b>38-160-55</b>	Viton. Top Hat.
Performance Spring	Both		<b>52-4040</b>	2.170 Free Length. 84 @ 1.88. 230 @ 1.44
Push Rod	Both		<b>74-6662</b>	9.795 Length. OEM # 1873916
Injector Component	Both		<b>87-8320</b>	Injector Tube. Stainless. OEM# 1828320C1
Expansion Plug Kit			<b>97-300SS</b>	Stainless
<b>LINE 16</b>	<b>RD372</b>			<b>L6 BORE - 4.37"/111 mm</b>
Valve Seat Insert	Exh		<b>20-1875-1</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. +20 O/S Avail.
	Exh		<b>20-1875-7</b>	1-19/32 I.D. 1-7/8 O.D. 1/4 Depth
	Int		<b>20-2375-1</b>	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh		<b>30-1936</b>	2.813 OAL. New Style, Machined For Seal. OEM # 90316R3
	Int		<b>30-1696</b>	3.062 OAL. New Style, Machined For Seal. OEM # 90317R1
Spring	Both		<b>32-220</b>	2.563 Free Length. Outer. OEM # 62265-VA
	Both		<b>32-221</b>	2.344 Free Length. Inner. OEM # 62264-VA
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Valve Stem Seal	Both		<b>38-240-25</b>	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			<b>97-24</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 17</b>	<b>6.4L (389 C.I.) 32V Turbo Diesel</b>			<b>V8 BORE - 98mm/3.86"</b>
Valve	Exh		<b>10-13183</b>	1.161 Head Dia. 0.2738 Stem
	Int		<b>10-13182</b>	1.339 Head Dia. 0.2738 Stem
Valve Seat Insert	Int		<b>20-1375-2</b>	1.125 I.D. 1.3795 Exact O.D. 0.250 Depth. May Need Machining
	Exh		<b>21-1187-52</b>	0.934T I.D. 1-3/16 O.D. 0.257 Depth. May Need Machining
	Exh		<b>22-1161-1+030</b>	0.910T I.D. 1.191 O.D. 0.222 Depth. May Need Machining. +10, 20, 30, 40, 50, 63 Avail.
	Exh		<b>22-1221-2N</b>	0.906 I.D. 1.221 O.D. 0.335 Depth. Non-Magnetic Nickel Matl.
	Exh		<b>22-1260-1N</b>	0.945 I.D. 1.2598 O.D. 0.335 Depth. May Need Machining. Non-Magnetic Nickel
	Int		<b>22-1375-1</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942298
	Int		<b>22-1375-2N</b>	1.100 I.D. 1.375 O.D. 0.227 Depth. +010 O/S Avail. OEM # 3942299
Guide	Both		<b>30-3055</b>	2.331 OAL
Spring	Both		<b>32-04040</b>	2.076 Free Length
Keeper	Both		<b>34-5009</b>	1 Round Groove
Lifter	Both		<b>36-2104</b>	Hydraulic Roller. OEM # 3C3Z6500AA
Valve Stem Seal	Both		<b>38-160-55</b>	Viton. Top Hat.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 17</b>	<b>6.4L (389 C.I.) 32V Turbo Diesel</b>			<b>V8 BORE - 98mm/3.86"</b>
Performance Spring	Both		52-4040	2.170 Free Length. 84 @ 1.88. 230 @ 1.44
Retainer	Both		55-6328	Retainer. 0.912 O.D.
Push Rod	Both		74-6662	9.795 Length. OEM # 8C3Z6565B
Injector Component	Both		87-6951	Injector Tube, Stainless. OEM # 8C3Z9N951A
<b>LINE 18</b>	<b>392 C.I. (6.4L) V392</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		10-1133S	1.734 Head Dia. +15 O/S Stem May Be Avail.
	Int		10-1152	2.078 Head Dia. +15 O/S Stem May Be Avail.
Valve Seat Insert	Int		20-2125-3	1-15/16 I.D. 2-1/8 O.D. 3/16 Depth
	Exh		22-1803-1	1.571 I.D. 1.8035 O.D. 0.312 Depth
Guide	Exh		30-1968	2.906 OAL. O.E. Style. OEM # 874913-R2
	Exh		30-8223	2.906 OAL. 0.419 I.D. 0.689 O.D. Counterbored
	Int		30-1836	2.906 OAL. 0.3765 I.D. 0.689 O.D. Hardened. OEM # 151798-R1
	Int		30-7859	Same As 30-1836 w/ 0.001 Smaller I.D. 0.3755
	Int		30-7876	2.906 OAL. 0.3745 I.D. 0.689 O.D.
	Int		30-8456	2.906 OAL. 0.3765 I.D. 0.689 O.D.
Spring	Both		32-887-D	2.050 Free Length
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-855	Hydraulic. OEM # 217158R91,92
Valve Stem Seal	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			97-23	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 19</b>	<b>V400</b>			<b>1974-75 V8 BORE - 4.165"/105.79mm</b>
Valve	Exh		10-1257	1.680 Head Dia. +15 O/S Stem May Be Avail.
	Int		10-1258	2.025 Head Dia. +3, +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1750-3N	1-7/16 I.D. 1-3/4 O.D. 7/32 Depth
	Int		20-2125-1	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
Guide	Both		30-9108	2.375 OAL. Spiral 0.374 I.D. 30-6108 Plain I.D., 30-9108H Hardened Also Avail.
Spring	Exh		32-1040	1.910 Free Length. OEM # 445367-C1
	Int		32-999	2.200 Free Length. OEM # 445365-C1
Keeper	Both		34-555	1 Groove. Heat Treated. OEM # 42026-D
Valve Stem Seal	Both		38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
<b>LINE 20</b>	<b>V/S401, V461, V/S478, V/S549, FTV/S549</b>			<b>V8 BORE - 4.125"/104.8mm</b>
Valve	Exh		10-1301S	1.805 Head Dia. From S/N 139494. 2 Groove
	Int		10-1475	2.157 Head Dia. From S/N 139494 2 Groove 15 Degree Seat
Valve Seat Insert	Exh		20-2000-3N	1-5/8 I.D. 2.000 O.D. 19/64 Depth. Nickel Matl.
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail. Cast Iron Heads
Guide	Exh		30-1816	3.250 OAL. O.E. Style. OEM # 133595-R1
	Exh		30-8224	3.250 OAL. Same As 30-1816 w/ Counterbore - Recommended
	Int		30-1817	3.063 OAL. Hardened. OEM # 133670-R1
Spring	Both		32-887-D	2.050 Free Length. OEM # 317365-C11
Keeper	Both		34-802	w/.137 Wide Groove. OEM # 60437-R1
Lifter	Both		36-855	Hydraulic
Valve Stem Seal			38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.
Expansion Plug Kit			97-92	Steel Kit. Brass Kit Avail. In Suffix B

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 21</b>	<b>MV404, MV446</b>			<b>V8 BORE - 4.125"/104.775mm</b>
Valve	Exh		<b>10-1431S</b>	1.535 Head Dia.
	Int		<b>10-1432</b>	2.054 Head Dia.
Valve Seat Insert	Int		<b>20-2125-1</b>	1-13/16 I.D. 2-1/8 O.D. 1/4 Depth.
	Exh		<b>22-1654-1N</b>	1.367 I.D. 1.6544 O.D. 0.312 Depth, +10 O/S Avail., OEM # 1805249C1
Guide	Both		<b>30-7174</b>	2.600 OAL. O.E. Style. OEM # 446723-C1
	Both		<b>30-8222</b>	2.600 OAL. Same As 30-7174 Exc. Counterbored, Recommended.
Spring	Both		<b>32-887-D</b>	2.050 Free Length. OEM # 317365-C11
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		<b>36-2011CCI</b>	Hydraulic Flat. 1-pc. Chilled Cast Iron
Valve Stem Seal	Both		<b>38-921-25</b>	Polyacrylic. 2-Ring. Nitrile Matl. 38-921-15 Also Avail.
Expansion Plug Kit			<b>97-92</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 22</b>	<b>RD406, RD450, RD501</b>			<b>L6 BORE - 4.37"/111 mm</b>
Valve Seat Insert	Exh		<b>20-1875-1N</b>	1-5/8 I.D. 1-7/8 O.D. 1/4 Depth. Non-Magnetic Nickel Matl.
	Int		<b>20-2375-1</b>	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh		<b>30-1936</b>	2.813 OAL. New Style, Machined For Seal. OEM # 90316R3
	Int		<b>30-1696</b>	3.062 OAL. New Style, Machined For Seal. OEM # 90317R1
Spring	Both		<b>32-220</b>	2.563 Free Length. Outer. OEM # 62265-VA
	Both		<b>32-221</b>	2.344 Free Length. Inner. OEM # 62264-VA
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Expansion Plug Kit			<b>97-24</b>	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 23</b>	<b>D407, DT407 (6.7L) Diesel &amp; Turbo 12V</b>			<b>L6 BORE - 4.32"/109.753mm</b>
Valve	Exh		<b>10-923</b>	1.625 Head Dia. OEM # 612313-C1
	Int		<b>10-924</b>	1.940 Head Dia. OEM # 670308-C1
Guide	Both		<b>30-1957</b>	3.172 OAL. OEM # 326505-R3
Spring	Both		<b>32-220</b>	2.563 Free Length. Outer. OEM # 62265-VA
	Both		<b>32-221</b>	2.344 Free Length. Inner. OEM # 62264-VA
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Rotator / Retainer	Both		<b>37-1581</b>	Rotator. OEM # 1811581C91
Injector Component			<b>87-6503</b>	Injector Tube. Brass. OEM # 326503R1
<b>LINE 24</b>	<b>6.9L (420 C.I.) Diesel</b>			<b>1971-90 V8 BORE - 4.00"/101.6mm</b>
Valve	Exh	1971-90	<b>10-1542</b>	1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement.
	Exh	1971-90	<b>10-1542S</b>	H.D. Stellite. 1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement. +15 O/S Stem Avail.
	Int	1971-90	<b>10-1543</b>	1.877 Head Dia. +15 O/S Stem Avail. Valve Has 0.010 Larger Margin To Save Seat Replacement
Valve Seat Insert	Int	1971-90	<b>20-1875-38</b>	1-5/8 I.D. 1-7/8 O.D. 3/16 Depth. To Be Used In Early A & B Castings Due To Thin Wall Sections.
	Int	1971-90	<b>20-1937-23</b>	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth, Cannot Be Used In Early A & B Castings Due To Thin Wall Sections.
	Exh	1971-90	<b>22-1669-1</b>	1.372T I.D. 1.669 O.D. 0.272 Depth. OEM # E3TZ-6057B. +15 & +30 O/S Avail.
Guide	Int	1971-90	<b>22-1957-1</b>	Dual O.D. Seat Recommended For All Castings.
	Both	1971-90	<b>30-7689</b>	2.600 OAL. OEM Repair Version Check O.D. 0.6252 O.D.
Spring	Both	1971-90	<b>30-7712</b>	5/8 Reamer Option 0.372 Stem: 2.600 OAL. 0.627 O.D. 0.374 I.D.
	Both	1971-90	<b>32-887-D</b>	2.050 Free Length. w/ Rotocaps. OEM # 317365-C11

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 24</b>	<b>6.9L (420 C.I.) Diesel</b>		<b>1971-90 V8</b>	<b>BORE - 4.00"/101.6mm</b>
Keeper	Both	1971-90	34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both	1971-90	36-2104	Hydraulic Roller
Valve Stem Seal	Exh	1971-90	38-910-25	Glass Filled Nylon. Umbrella.
	Int	1971-90	38-844-45	Viton. Ring And Spring.
Expansion Plug Kit			97-97SS	Avail. In Stainless Steel Only - Specially Ground Concave Plugs To OEM Specs.
<b>LINE 25</b>	<b>7.3L (445 C.I.) Diesel Powerstroke, Turbo</b>		<b>1988-05 V8</b>	<b>BORE - 4.1095"/104.38mm</b>
Valve	Exh		10-1542	Exc. Turbo. 1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement.
	Exh		10-1542S	H.D. Stellite. 1.595 Head Dia. Valve Has 0.010 Larger Margin To Save Seat Replacement. +15 O/S Stem Avail.
	Exh		10-1754	1.595 Head Dia. Turbo Inconel Head, Valve Has 0.010 Larger Margin To Save Seat Replacement. Indirect Injection. +15 O/S Stem May Be Avail.
	Exh		10-1786	1.680 Head Dia. w/ Dir. Inj.
	Int		10-1543	1.877 Head Dia. +15 O/S Stem Avail. Valve Has 0.010 Larger Margin To Save Seat Replacement
	Int		10-1785	1.680 Head Dia. w/ Dir. Inj.
Valve Seat Insert	Exh		20-1750-4N	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must cut seat angle to 37.5 Deg.
	Int		20-1750-4	1-7/16 I.D. 1-3/4 O.D. 1/4 Depth. Must cut seat angle to 30 Deg.
	Int		20-1875-38	1-5/8 I.D. 1-7/8 O.D. 3/16 Depth. For Thin Wall Castings.
	Int		20-1937-23	1-11/16 I.D. 1-15/16 O.D. 3/16 Depth. Not For Thin Wall Castings
	Exh		22-1669-1	1.372T I.D. 1.669 O.D. 0.272 Depth. OEM # E3TZ-6057B. +15, 30 O/S Avail. Not For Thin Wall Castings
Guide	Int		22-1957-1	Dual O.D. Seat Recommended For All Castings.
	Both		30-3257	New Repair Option: 2.440 OAL. 0.3145 I.D. 0.502 O.D. For 1/2" Reamer w/ Seal Boss O.D. 0.564. Type: 21-SR
	Both		30-7689	2.600 OAL. OEM Repair Version Check O.D. 0.6252 O.D.
	Both		30-7712	5/8 Reamer Option 0.372 Stem: 2.600 OAL. 0.627 O.D. 0.374 I.D.
	Both		30-8476	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.565 O.D. 0.3146 I.D.
	Exh		30-8562	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.564 O.D. 0.3145 I.D.
Spring	Both		32-887-D	2.050 Free Length. Use w/ Rotocaps. OEM # 317365-C11
Keeper	Both		34-613	1 Groove. Heat Treated. .375 Stem. OEM # 76951-R1.
	Both		34-614	Heat Treated. 1 Groove. 0.310 Stem
Lifter	Both		36-2104	Hydraulic Roller
	Both		38-173-45	Viton. Top Hat. OEM # 1816179C91
Valve Stem Seal	Exh		38-910-25	Polyacrylic. Umbrella. Nitrile Matl. 38-910-15 Also Avail.
	Int		38-844-45	Viton. Ring And Spring.
	Int		87-4376	Injector Tube. OEM # 1814376C1
Expansion Plug Kit			97-97SS	Incl. Block Plugs Only. Head : 96-697SC A/R. Avail. In Stainless Steel Only - Specially Ground Concave Plugs To OEM Specs.
<b>LINE 26</b>	<b>RED450, RED450A</b>		<b>L6</b>	<b>BORE - 4.37"/111 mm</b>
Valve Seat Insert	Exh		20-1625-3N	1-5/16 I.D. 1-5/8 O.D. 1/4 Depth
	Int		20-2375-1	2.000 I.D. 2-3/8 O.D. 3/16 Depth
Guide	Exh		30-1936	2.813 OAL. New Style, Machined For Seal. OEM # 90316R3
	Int		30-1696	3.062 OAL. New Style, Machined For Seal. OEM # 90317R1
Spring	Both		32-220	2.563 Free Length. Outer. OEM # 62265-VA
	Both		32-221	2.344 Free Length. Inner. OEM # 62264-VA



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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 26</b>	<b>RED450, RED450A</b>			<b>L6 BORE - 4.37"/111 mm</b>
Keeper	Both		34-803	2 Groove. Heat Treated. w/o Rotocaps. OEM # 93914-H
Expansion Plug Kit			97-24	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 27</b>	<b>7.6L (466), 9.3L (570) Elec. Inj. 24V "MaxxForce"</b>			<b>L6 BORE - 4.30"/109.2mm</b>
Valve	Exh		10-13003S	1.439 Head Dia. Stellite. OEM # 1839970C1
	Int		10-13002	1.564 Head Dia. OEM # 1839968C1
Valve Seat Insert	Both		22-1480-2	1.288T I.D. 1.480 O.D. 0.250 Depth. OEM # 1842138, 1835852
	Both		22-1584-1	1.328T I.D. 1.584 O.D. 0.250 Depth. OEM # 1842137, 1835851
Guide	Both		30-3079	2.585 OAL 0.314 I.D. 0.567 O.D. OEM # 1841538C1, 1850019C1
Spring	Both		32-04047	2.060 Free Length. OEM # 1835858C1, 1842146C1
Keeper	Both		34-5005	1 Round Groove. OEM # 1841588C1
Rotator / Retainer	Both		37-5655	Rotator. OEM # 1835655C1
Valve Stem Seal	Both		38-3432-55	Top Hat. Viton. OEM # 1833432.
Injector Component			87-1095	Stainless. OEM # 1841095C1
<b>LINE 28</b>	<b>D466 C.I. (7.6L) DT466, DT466B &amp; DTI466B</b>			<b>L6 BORE - 4.30"/109.22mm</b>
Valve	Exh		10-1422S	1.600 Head Dia. OEM # 676865-C2,4.
	Int		10-1423	1.970 Head Dia. OEM # 675046-C2,4.
Valve Seat Insert	Exh		22-1628-1N	1.348T I.D. 1.6285 O.D. 0.365 Depth. +10, 13, 20, 30 O/S Avail. OEM # 671563-C1.
	Int		22-2001-1	1.712T I.D. 2.001 O.D. 0.385 Depth. +10, 13, 20, 30 O/S Avail. OEM # 671559-C1
Guide	Both		30-7431	2.750 OAL. Use w/ Eng. Manufactured Before 5/89. OEM # 675439-C1
	Both		30-8188	2.610 OAL. Use w/ Eng. Manufactured After 6/89, New Style, Cut For Seal. OEM # 1815264C1.
Spring	Both		32-1178	2.400 Free Length. OEM # 682064C1
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Lifter	Both		36-2041	Mechanical. 0.997 Dia. S/N 140086 and Below. OEM # 911776
	Both		36-2082	1.120 Dia. S/N 140087 To 532980 w/o Valve Train Improvement Package. OEM # 1802340
	Both		36-7096	Mechanical Roller. OEM # 1809570 C14
Rotator / Retainer	Both		37-1581	Rotator. OEM # 1811581C91
Valve Stem Seal	Both		38-3295-45	Viton. Top Hat. Use w/ 30-8188. OEM # 1823295C1
	Both		38-466-45	Viton. Top Hat. Use w/ 30-7431. OEM # 1815374C1
Rocker Component			40-3924	Rocker Arm. OEM # 1823924C93
Push Rod			74-5621	OEM # 675621
Injector Component			87-5442	Injector Tube. OEM # 675442C1
Expansion Plug Kit			97-111S	Stainless Steel Kit
<b>LINE 29</b>	<b>466 C.I. (7.6L) Turbo Mech. Inj., DT408 (6.7L) 12V</b>			<b>L6 BORE - 4.30"/109.2mm</b>
Valve	Exh		10-1900S	5/16 Stem Dia. 1.600 Head Dia. OEM # 1818579-C1, 1824838-C1
	Exh		10-1944S	3/8 Stem Dia. 1.600 Head Dia. OEM # 1824842-C1
	Int		10-1899	5/16 Stem Dia. 1.970 Head Dia. OEM # 1818580-C1
	Int		10-1943	3/8 Stem Dia. 1.970 Head Dia. OEM # 1824642-C1,2
Valve Seat Insert	Exh		22-1626-1N	1.348T I.D. 1.626 O.D. 0.365 Depth. OEM # 675450-C3
	Int		22-1999-1	1.712T I.D. 1.999 O.D. 0.386 Depth. OEM # 675043-C1
Guide	Both		30-3006	For 3/8 Stem. 3.377 OAL. OEM # 4824646-C1
	Both		30-8476	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.565 O.D. 0.3146 I.D.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 29</b>	<b>466 C.I. (7.6L) Turbo Mech. Inj., DT408 (6.7L) 12V</b>			<b>L6 BORE - 4.30"/109.2mm</b>
Spring	Exh		<b>32-04009</b>	2.580 Free Length. OEM # 1825540-C1
	Int		<b>32-04010</b>	2.357 Free Length. OEM # 677349C1
Keeper	Both		<b>34-00944</b>	1 Groove. OEM # 1810944C1
	Both		<b>34-04644</b>	1 Round Groove. 3/8 Stem. OEM # 1824644C1
Lifter	Both		<b>36-7096</b>	Mechanical Roller. OEM # 1809570 C1-4.
Rotator / Retainer	Both		<b>37-4680</b>	Rotator. 3/8 Stem. Incl. Oil Shield. OEM # 1824680C1
	Both		<b>37-9826</b>	Rotator. OEM # 1820826C91
Valve Stem Seal	Both		<b>38-2245-45</b>	For 5/16 Stem. Top Hat. Viton. OEM # 1822245C1.
	Both		<b>38-3295-45</b>	For 3/8 Stem. Top Hat. Viton. OEM # 1823925C1
<b>LINE 30</b>	<b>466 C.I. (7.6L) Electrical Inj. HEUI 12V</b>			<b>L6 BORE - 4.30"/109.2mm</b>
Valve	Exh		<b>10-1946S</b>	1.786 Head Dia. 45 Degree Seat. OEM # 1824840-C1
	Int		<b>10-1945</b>	1.786 Head Dia. 30 Degree Seat. OEM # 1823875-C1
	Int		<b>10-2131</b>	1.970 Head Dia. 30 Degree Seat. OEM # 1826471C
Valve Seat Insert	Exh		<b>22-1811-2N</b>	1.548T I.D. 1.811 O.D. 0.334 Depth OEM # 1821903
	Exh		<b>22-1811-3</b>	1.548T I.D. 1.811 O.D. 0.334 Depth. OEM # 1830711.
	Int		<b>22-1823-1</b>	1.560T I.D. 1.823 O.D. 0.273 Depth OEM # 1821901
	Int		<b>22-2001-1</b>	1.712T I.D. 2.001 O.D. 0.385 Depth. +10, 13, 20, 30 O/S Avail. OEM # 671559-C1 Machine To Depth.
	Int		<b>22-2001-2</b>	1.712T I.D. 2.001 O.D. 0.355 Depth. OEM # 1827121C2
Guide	Both		<b>30-8188</b>	2.610 OAL. OEM # 1815264-C1
Spring	Exh		<b>32-04009</b>	2.580 Free Length. OEM # 1825540-C1
	Int		<b>32-04010</b>	2.357 Free Length. OEM # 677349-C1
Keeper	Both		<b>34-04644</b>	1 Round Groove. OEM # 1824644C1
Lifter	Both		<b>36-7096</b>	Mechanical Roller. OEM # 1809570 C1-4.
Rotator / Retainer	Both		<b>37-4680</b>	Rotator. Incl. Oil Shield. OEM # 1824680C1
Valve Stem Seal	Both		<b>38-0234-35</b>	GF Nylon. Umbrella
	Both		<b>38-3295-45</b>	Viton. Top Hat. 3/8 Stem. OEM # 1823925C1
Injector Component			<b>87-8778</b>	Injector Tube. OEM # 1818778C2,C3.
<b>LINE 31</b>	<b>530 C.I. (8.7L) Mechanical Injection 12V</b>			<b>L6 BORE - 4.59"/116.6mm</b>
Valve	Exh		<b>10-1900S</b>	5/16 Stem Dia. 1.600 Head Dia. OEM # 1818579-C1, 1824838-C1
	Exh		<b>10-1944S</b>	3/8 Stem Dia. 1.600 Head Dia. OEM # 1824842-C1
	Int		<b>10-1899</b>	5/16 Stem Dia. 1.970 Head Dia. OEM # 1818580-C1
	Int		<b>10-1943</b>	3/8 Stem Dia. 1.970 Head Dia. OEM # 1824642-C1,2
Valve Seat Insert	Exh		<b>22-1626-1N</b>	1.348T I.D. 1.626 O.D. 0.365 Depth. OEM # 675450-C3
	Int		<b>22-1999-1</b>	1.712T I.D. 1.999 O.D. 0.386 Depth. OEM # 675043-C1
Guide	Both		<b>30-3006</b>	For 3/8 Stem. 3.377 OAL. OEM # 4824646-C1
	Both		<b>30-8476</b>	9/16 Reamer Option 0.312 Stem: 2.440 OAL. 0.565 O.D. 0.3146 I.D.
Spring	Exh		<b>32-04009</b>	2.580 Free Length. OEM # 1825540-C1
	Int		<b>32-04010</b>	2.357 Free Length. OEM # 677349-C1
Keeper	Both		<b>34-00944</b>	1 Groove. 5/16 Stem. OEM # 1810944C1
	Both		<b>34-04644</b>	1 Round Groove. 3/8 Stem. OEM # 1824644C1
Rotator / Retainer	Both		<b>37-4680</b>	Rotator. Incl. Oil Shield. OEM # 1824680C1
Valve Stem Seal	Both		<b>38-2245-45</b>	For 5/16 Stem Dia. OEM # 1822245-C1. Top Hat Style. Viton.
	Both		<b>38-3295-45</b>	For 3/8 Stem Dia. Viton. Top Hat. OEM # 1823925C1
Injector Component	Both		<b>87-5442</b>	Injector Tube. OEM # 675442C1

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 32</b>	<b>530 C.I. (8.7L) Electrical Injection 12V</b>			<b>L6 BORE - 4.59"/116.6mm</b>
Valve	Exh		10-1946S	1.786 Head Dia. 45 Degree Seat. OEM # 1824840-C1
	Int		10-1945	1.786 Head Dia. 30 Degree Seat. OEM # 1823875-C1
	Int		10-2131	1.970 Head Dia. OEM # 1826471C
Valve Seat Insert	Exh		22-1811-2N	1.548T I.D. 1.811 O.D. 0.334 Depth OEM # 1821903-C3
	Exh		22-1811-3	1.548T I.D. 1.811 O.D. 0.334 Depth. OEM # 1830711
	Int		22-1823-1	1.560T I.D. 1.823 O.D. 0.273 Depth OEM # 1821901-C1
	Int		22-2001-1	1.712T I.D. 2.001 O.D. 0.385 Depth. +10, 13, 20, 30 O/S Avail. OEM # 671559-C1
Guide	Both		30-8188	2.610 OAL. OEM # 1815264-C1
Spring	Exh		32-04009	2.580 Free Length. OEM # 1825540-C1
	Int		32-04010	2.357 Free Length. OEM # 677349-C1
Keeper	Both		34-04644	1 Round Groove. OEM # 1824644C1
Lifter	Both		36-7096	Mechanical Roller. OEM # 1809570 C1-4.
Rotator / Retainer	Both		37-4680	Rotator. Incl. Oil Shield. OEM # 1824680C1
Valve Stem Seal	Both		38-3295-45	Viton. Top Hat. OEM # 1823925C1
Rocker Component	Both		40-7195	Rocker Arm. OEM # 1827195
Injector Component	Both		87-8778	Injector Tube. OEM # 1833382, 1818778
<b>LINE 33</b>	<b>V537, V605</b>			<b>V8 BORE - 4.625"/117.475mm</b>
Valve	Exh		10-1506S	1.805 Head Dia. OEM # 448454C1
	Int		10-1507	2.157 Head Dia. OEM # 487879C1
Valve Seat Insert	Exh		20-2000-3N	1-5/8 I.D. 2.000 O.D. 19/64 Depth. Nickel Matl.
	Int		20-2250-1	1-15/16 I.D. 2-1/4 O.D. 3/16 Depth. +10 O/S Avail. Cast Iron Heads
Guide	Exh		30-7456	3.060 OAL. OEM # 448229-C1
	Int		30-7457	3.090 OAL. OEM # 448219-C2
Spring	Both		32-887-D	2.050 Free Length. w/ Rotocaps. OEM # 317365-C11
Keeper	Both		34-802	1 Groove. Heat Treated. w/ 0.137 Wide Groove. OEM # 60437-R1
<b>LINE 34</b>	<b>551 C.I. (9.0L) Diesel 16V</b>			<b>V8 BORE - 4.50"/114.55mm</b>
Valve	Exh		10-1648	1.727 Head Dia.
	Int		10-1649	1.924 Head Dia.
Valve Seat Insert	Exh		22-1775-1	1.458T I.D. 1.775 O.D. 0.300 Depth
	Int		22-1973-1	1.658T I.D. 1.973 O.D. 0.300 Depth
Guide	Both		30-7336	2.960 OAL. OEM # 428046-C1
Spring	Both		32-887-D	2.050 Free Length. OEM # 317365-C11
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Valve Stem Seal	Both		38-240-25	Polyacrylic. O-Ring. 38-240-15 Nitrile Matl. Also Avail.

# ISUZU

# DIESEL & INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
120 C.I. (2.0L) Industrial		L4	1
2369cc (2.4L) C240 Forklift		L4	2
4JA1-T (2.5L) 4JB1-T (2.8L)	1998-05	L4	3
6BG1 Industrial 3.0L		L6	4
2999cc (3.0L) DOHC 16V 4JJ1, 4JK1 Diesel		L4	5
4BD1T & 4BD2T Industrial 3.9L		L4	6
290 C.I. (4.8L) SOHC 8V 4HE1 Turbo Diesel Dir. Inj.		L4	7
5193cc (5.2L) SOHC 4HK1 16V Diesel		L4	8
6BD1T & 6BD2T Industrial 5.8L		L6	9
6SD1 Industrial		L6	10
435 C.I. (7.1L) SOHC 12V 6HE1 Turbo Diesel Dir. Inj.		L6	11
7780cc (7.8L) SOHC 6HK1 24V Diesel		L6	12
6SA1T Industrial 8.4L		L6	13

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>120 C.I. (2.0L) Industrial</b>			<b>L4 BORE - 3.937"/100mm</b>
Guide	Both		30-8125	2.990 OAL
<b>LINE 2</b>	<b>2369cc (2.4L) C240 Forklift</b>			<b>L4 BORE - 86mm/3.39"</b>
Valve	Exh		10-10217	1.339 Head Dia.
	Int		10-10216	1.575 Head Dia.
Valve Seat Insert	Exh		21-1437-58	1.095T I.D. 1-7/16 O.D. 0.237 Depth
	Int		21-1625-55	1.333T I.D. 1-5/8 O.D. 0.237 Depth
Guide	Both		30-7656	1.970 OAL. OEM # 5-11721-016-0
Valve Stem Seal	Both		38-223-55	Viton. Metal Clad.
<b>LINE 3</b>	<b>4JA1-T (2.5L) 4JB1-T (2.8L)</b>			<b>1998-05 L4 BORE - 93mm/3.66</b>
Valve	Exh	1994-98	10-3223	
	Int	1994-98	10-3222	
<b>LINE 4</b>	<b>6BG1 Industrial 3.0L</b>			<b>L6 BORE - 105mm/4.13"</b>
Valve Seat Insert	Exh		22-1539-2	1.297T I.D. 1.5395 O.D. 0.276 Depth
	Int		22-1854-2	1.609T I.D. 1.8545 O.D. 0.2775 Depth
<b>LINE 5</b>	<b>2999cc (3.0L) DOHC 16V 4JJ1, 4JK1 Diesel</b>			<b>L4 BORE - 3.76"/95.4mm</b>
Valve	Exh		10-3201	1.183 Head Dia. NPR Eco-Max (Mexico Elf 200-300). OEM # 8980169741
	Int		10-3200	1.300 Head Dia. NPR Eco-Max (Mexico Elf 200-300). OEM # 8980169730
<b>LINE 6</b>	<b>4BD1T &amp; 4BD2T Industrial 3.9L</b>			<b>L4 BORE - 102mm/4.02"</b>
Valve	Exh		10-10726	1.476 Head Dia. 4BD1T Only
	Exh		10-10728S	1.476 Head Dia. 4BD2T Only
	Int		10-10725	1.772 Head Dia.
Valve Seat Insert	Exh		20-1562-46N	1-1/4 I.D. 1-9/16 O.D. 9/32 Depth. Alternate Universal Oversize. Non-Magnetic Nickel Matl.
	Exh		22-1539-2	1.297T I.D. 1.5395 O.D. 0.276 Depth
	Int		22-1854-1	1.610T I.D. 1.8545 O.D. 0.277 Depth
Guide	Both		30-8023	2.365 OAL. OEM # 5-11721-001-0
Spring	Both		32-04031	2.059 Free Length. Inner
	Both		32-04032	2.131 Free Length. Outer
Valve Stem Seal	Both		38-7120-45	Viton. Metal Clad.

# ISUZU

# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 7</b>	<b>290 C.I. (4.8L) SOHC 8V 4HE1 Turbo Diesel Dir. Inj.</b>			<b>L4 BORE - 110.6mm/4.33"</b>
Valve	Exh		10-2238	1.654 Head Dia. OEM # 8971891140
	Int		10-2237	1.969 Head Dia. OEM # 8943951131
	Int		10-2239	1.830 Head Dia. OEM # 8970338641
Valve Seat Insert	Exh		22-1697-1	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720
	Int		22-1894-1	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620
	Int		22-2013-1	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600
Guide	Both		30-3054	0.3547 I.D. 2.365 OAL OEM 8943965980
Valve Stem Seal	Both		38-6115-55	Viton. Top Hat. OEM # 8943966092
<b>LINE 8</b>	<b>5193cc (5.2L) SOHC 4HK1 16V Diesel</b>			<b>L4 BORE - 4.53"/115mm</b>
Valve	Exh		10-13122	1.456 Head Dia. 0.312 Stem. OEM # 8972098763
	Int		10-13121	1.457 Head Dia. 0.313 Stem. N-Series Trucks. (Mexico Elf 400-600). OEM # 8943958822
Guide	Both		30-3101	2.245 OAL. 0.3150 I.D. 0.5526 O.D.
Valve Stem Seal	Both		38-223-55	Viton. Metal Clad.
	Both		38-962-45	Viton. Ring And Spring.
<b>LINE 9</b>	<b>6BD1T &amp; 6BD2T Industrial 5.8L</b>			<b>L6 BORE - 102mm/4.02"</b>
Valve	Exh		10-10726	1.476 Head Dia. 6BD1T
	Exh		10-10728S	1.476 Head Dia. 6BD2T
	Int		10-10725	1.772 Head Dia.
Valve Seat Insert	Exh		20-1562-46N	1-1/4 I.D. 1-9/16 O.D. 9/32 Depth. Alternate Universal Oversize. Non-Magnetic Nickel Matl.
	Exh		22-1539-2	1.297T I.D. 1.5395 O.D. 0.276 Depth
	Int		22-1854-1	1.610T I.D. 1.8545 O.D. 0.277 Depth
Guide	Both		30-8023	2.365 OAL. OEM # 5-11721-001-0
Spring	Both		32-04031	2.059 Free Length. Inner
	Both		32-04032	2.131 Free Length. Outer
Valve Stem Seal	Both		38-7120-45	Viton. Metal Clad.
<b>LINE 10</b>	<b>6SD1 Industrial</b>			<b>L6 BORE - 115mm/4.53"</b>
Valve Seat Insert	Exh		22-1894-2	1.575T I.D. 1.894 O.D. 0.256 Depth
	Int		22-2052-1	1.809 I.D. 2.052 O.D. 0.256 Depth
<b>LINE 11</b>	<b>435 C.I. (7.1L) SOHC 12V 6HE1 Turbo Diesel Dir. Inj.</b>			<b>L6 BORE - 4.22"/107.2mm</b>
Valve	Exh		10-2238	1.654 Head Dia. OEM # 8943954620
	Int		10-2237	1.969 Head Dia. OEM # 8943951131
	Int		10-2239	1.830 Head Dia. OEM # 8970338641
Valve Seat Insert	Exh		22-1697-1	1.450T I.D. 1.697 O.D. 0.276 Depth. OEM # 8943961720
	Int		22-1894-1	1.570T I.D. 1.894 O.D. 0.292 Depth. OEM # 8943944620
	Int		22-2013-1	1.770T I.D. 2.013 O.D. 0.288 Depth. OEM # 8970884600
Guide	Both		30-3054	0.3547 I.D. 2.365 OAL OEM 8943965980
<b>LINE 12</b>	<b>7780cc (7.8L) SOHC 6HK1 24V Diesel</b>			<b>L6 BORE - 4.53"/115mm</b>
Valve	Exh		10-13122	1.456 Head Dia. 0.312 Stem. OEM # 8972098763
	Int		10-13121	1.457 Head Dia. 0.313 Stem. N-Series Trucks. (Mexico Elf 400-600). OEM # 8943958822
Guide	Both		30-3101	2.245 OAL. 0.3150 I.D. 0.5526 O.D.
Valve Stem Seal	Both		38-223-55	Viton. Metal Clad.

**ISUZU****DIESEL & INDUSTRIAL**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>7780cc (7.8L) SOHC 6HK1 24V Diesel</b>			<b>L6 BORE - 4.53"/115mm</b>
Valve Stem Seal	Both		<b>38-962-45</b>	Viton. Ring And Spring.
<b>LINE 13</b>	<b>6SA1T Industrial 8.4L</b>			<b>L6 BORE - 115mm/4.53"</b>
Valve Seat Insert	Exh		<b>22-1894-2</b>	1.575T I.D. 1.894 O.D. 0.256 Depth. 210 H.P.
	Exh		<b>22-1894-3</b>	1.575T I.D. 1.894 O.D. 0.375 Depth 200 H.P.
	Int		<b>22-1973-2</b>	1.730 I.D. 1.973 O.D. 0.256 Depth. 210 H.P.
	Int		<b>22-1973-3</b>	1.692T I.D. 1.973 O.D. 0.394 Depth. 200 H.P.
Guide	Both		<b>30-8024</b>	2.360 OAL. OEM # 1-11721-008-0

ENGINE	YEAR	CYL.	LINE NO.
100 Gas 1.6L		V2	1
113 Gas 1.9L		L2	2
115 Gas (1.9L)		L4	3
135, 164, 180 Gas		L3,4	4
145, 217 Gas/LPG, 165 Gas		L4,6	5
145 Diesel, LP Gas		L4	6
152, 202, 303 Diesel		L3,6	7
164, 219, 329 Diesel		L3-6	8
165 Diesel		L4	9
3029, 4039, 4045, 6059, 6068, 8V PowerTech Diesel		L3-6	10
179D/T, 239D/T, 3179D/T, 359D, 4239D/T, 6359D		L3-6	11
190 C.I.		L2	12
201, 301 Gas, 227, 340, 341 Gas & LPG		L4,6	13
241, 4241, 362, 6362 Gas & LPG		L4,6	14
254, 381 Diesel		L4	15
270, 4270, 404 Diesel		L4,6	16
4045 16V 4.5L, 6068 6.8L 24V Power Tech Plus		L4,5	17
276D/T, 4276D/T, 414T, 6414T Turbo Diesel		L4	18
308, 321 C.I.		L2, H2	19
359T, 6359T Turbo, 414D, 6414D Diesel		L6	20
380 C.I. (6.2L) H2		H2	21
404A Intercooled, 404T Turbo Diesel		L6	22
6076A, 6076T Turbo Diesel (466 C.I.) 7.6L 12V		L4	23
466D, 6466D Diesel (7.6L)		L6	24
466A Intercooled, 466T Turbo Diesel		L6	25
496 C.I. (8.1L) 6081 12 V PowerTech		L6	26
6531D Diesel (8.7L)		L6	27
6531A Intercooled Turbo Diesel		L6	28
549 C.I. (9.0L) 24V 6090 Power Tech Plus		L6	29
6101A (10.1L) 12V Turbo Diesel "500 Series"		L6	30
6619T Intercooled Turbo Diesel 12V		L6	31
10.5L (644 C.I.) Power Tech 6105A 24V		L6	32
12.5L (766 C.I.) Power Tech 6125A 24V		L6	33
824 C.I. (13.5L) 6135 24V Power Tech Plus		L6	34

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>100 Gas 1.6L</b>			<b>V2 BORE - 4.00"/101.6mm</b>
Valve	Int		10-663	1.805 Head Dia. OEM # M100T
Valve Seat Insert	Exh		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		30-1858	3.344 OAL. OEM # M40T
Keeper	Both		34-746	2 Groove. Heat Treated. OEM # B-367-R
<b>LINE 2</b>	<b>113 Gas 1.9L</b>			<b>L2 BORE - 4.25"/108mm</b>
Valve Seat Insert	Exh		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
	Int		20-1812-3	1-1/2 I.D. 1-13/16 O.D. 7/32 Depth.
Guide	Both		30-1859	2.797 OAL. OEM # M3036T
Keeper	Both		34-746	2 Groove. Heat Treated. OEM # B-367-R
<b>LINE 3</b>	<b>115 Gas (1.9L)</b>			<b>L4 BORE - 3.50"/88.832mm</b>
Valve	Int		10-657	1.687 Head Dia. OEM # T12356T
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>115 Gas (1.9L)</b>			<b>L4 BORE - 3.50"/88.832mm</b>
Valve Seat Insert	Int		<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both		<b>30-1860</b>	2.375 OAL. 0.344 I.D. 0.628 O.D. OEM # T556T
Spring	Both		<b>32-758</b>	2.125 Free Length. OEM # T-555-T
Keeper	Both		<b>34-743</b>	2 Round Grooves. OEM # T167T
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber.
<b>LINE 4</b>	<b>135, 164, 180 Gas</b>			<b>L3,4 BORE - 3.875"/98.4mm</b>
Valve	Exh		<b>10-1305S</b>	1.457 Head Dia. OEM # T25467
	Int		<b>10-1306</b>	1.772 Head Dia. OEM # T25466
Valve Seat Insert	Exh		<b>20-1562-4</b>	1-5/16 I.D. 1-9/16 O.D. 1/4 Depth. OEM # 70843.
	Int		<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth. OEM # 70843.
Guide	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	3/8 Stem Dia. Heat Treated
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
<b>LINE 5</b>	<b>145, 217 Gas/LPG, 165 Gas</b>			<b>L4,6 BORE - 3.62"/92mm</b>
Valve	Int		<b>10-657</b>	1.687 Head Dia. From S/N 30000
Valve Seat Insert	Exh		<b>20-1437-3N</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Non-Magnetic For LPG
	Int		<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both		<b>30-1860</b>	2.375 OAL. 0.344 I.D. 0.628 O.D. OEM # T556T
	Both		<b>30-1896</b>	2.859 OAL. 0.344 I.D. 0.628 O.D. From S/N 10720
	Both		<b>30-1899</b>	2.969 OAL. To S/N 10719. OEM # T11211T
Spring	Both		<b>32-758</b>	2.125 Free Length. OEM # T-555-T
Keeper	Both		<b>34-743</b>	Heat Treated. 2 Groove. OEM # T167T
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber.
<b>LINE 6</b>	<b>145 Diesel, LP Gas</b>			<b>L4 BORE - 3.62"/92mm</b>
Valve Seat Insert	Exh		<b>20-1437-3N</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Non-Magnetic For LPG
	Int		<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both		<b>30-1896</b>	2.859 OAL. From S/N 13072. OEM # T15683T
	Both		<b>30-1899</b>	2.969 OAL. To S/N 13071. OEM # T11211T
Keeper	Both		<b>34-743</b>	2 Round Grooves. OEM # T167T
<b>LINE 7</b>	<b>152, 202, 303 Diesel</b>			<b>L3,6 BORE - 3.875"/98.4mm</b>
Valve	Exh		<b>10-1233</b>	1.575 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79624
	Int		<b>10-1234</b>	1.772 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79623
Valve Seat Insert	Exh		<b>20-1687-5N</b>	1-3/8 I.D. 1-11/16 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1875-6</b>	1-5/8 I.D. 1-7/8 O.D. 7/32 Depth.
Guide	Both		<b>30-1857</b>	3.875 OAL 0.5015 I.D. 0.7525 O.D. Fits 5.50" Bore Only
	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated



# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>164, 219, 329 Diesel</b>			<b>L3-6 BORE - 4.02"/102.1mm</b>
Valve	Exh		<b>10-1233</b>	1.575 Head Dia. Exc. 300 Series RCP, Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79624
	Int		<b>10-1234</b>	1.772 Head Dia. Exc. 300 Series RCP, Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79623
Valve Seat Insert	Exh		<b>22-1638-1N</b>	1.412 I.D. 1.638 O.D. 0.218 Depth, +10 & +20 O/S Avail., OEM # R51734
	Int		<b>22-1858-1N</b>	1.608 I.D. 1.858 O.D. 0.209 Depth. +10 & +20 O/S Avail. OEM # R73064
Guide	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. 3/8 Stem Dia. Heat Treated
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
Valve Stem Seal	Both		<b>38-830-45</b>	Viton. Ring And Band. OEM # RE31617
<b>LINE 9</b>	<b>165 Diesel</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve Seat Insert	Exh		<b>20-1437-3N</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Non-Magnetic For LPG
	Int		<b>20-1687-2</b>	1-7/16 I.D. 1-11/16 O.D. 7/32 Depth
Guide	Both		<b>30-1860</b>	2.375 OAL. 0.344 I.D. 0.628 O.D. OEM # T556T
	Both		<b>30-1896</b>	2.859 OAL. From S/N 10719. OEM # T15683T
	Both		<b>30-1899</b>	2.969 OAL. To S/N 10719. OEM # T11211T
Keeper	Both		<b>34-743</b>	2 Round Grooves. OEM # 395931
Valve Stem Seal	Both		<b>38-1054-70</b>	Teflon And Rubber.
<b>LINE 10</b>	<b>3029, 4039, 4045, 6059, 6068, 8V PowerTech Diesel</b>			<b>L3-6 BORE - 4.20"/106mm</b>
Valve	Exh		<b>10-1588</b>	1.673 Head Dia. OEM # R-90692
	Int		<b>10-1589</b>	1.835 Head Dia. OEM # R-98062
Valve Seat Insert	Exh		<b>22-1695-1</b>	1.345T I.D. 1.695 O.D. 0.242 Depth. 30 Deg Seat. OEM #R85687
	Int		<b>22-1856-1</b>	1.550T I.D. 1.856 O.D. 0.257 Depth. 30 Deg. Seat. OEM #R98063
Guide	Exh		<b>30-8673</b>	2.390 OAL
	Int		<b>30-8674</b>	2.209 OAL. 0.312 I.D. 30-8674U 0.311 I.D. Also Avail.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-01889</b>	1 Round Groove
Rotator / Retainer	Both		<b>37-9005</b>	Rotator. OEM # RE60005
Valve Stem Seal	Both		<b>38-830-45</b>	Viton. Ring And Band. OEM # RE31617
<b>LINE 11</b>	<b>179D/T, 239D/T, 3179D/T, 359D, 4239D/T, 6359D</b>			<b>L3-6 BORE - 4.19"/106.426mm</b>
Valve	Exh		<b>10-1233</b>	1.575 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79624
	Int		<b>10-1234</b>	1.772 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79623
	Int		<b>10-1405</b>	1.821 Head Dia. SG. Late Style w/ Seal Groove. OEM # R89219
	Int		<b>10-1471S</b>	1.821 Head Dia. Stellite Face. Late Style w/ Seal Groove. OEM # R83071
Valve Seat Insert	Exh		<b>22-1638-1N</b>	1.412 I.D. 1.638 O.D. 0.218 Depth, +10 & +20 O/S Avail., OEM # R51734
	Int		<b>22-1858-1N</b>	1.608 I.D. 1.858 O.D. 0.209 Depth. +10 & +20 O/S Avail. OEM # R73064
Guide	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 11</b>	<b>179D/T, 239D/T, 3179D/T, 359D, 4239D/T, 6359D</b>			<b>L3-6 BORE - 4.19"/106.426mm</b>
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. 3/8 Stem Dia. Heat Treated
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
<b>LINE 12</b>	<b>190 C.I.</b>			<b>L2 BORE - 4.688"/119mm</b>
Valve Seat Insert	Exh		<b>20-1625-1N</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1875-2</b>	1-9/16 I.D. 1-7/8 O.D. 1/4 Depth.
Guide	Both		<b>30-1600</b>	3.875 OAL. OEM # AB2859R, B1927R
	Both		<b>30-9705</b>	2.000 OAL. Spiral I.D. 30-7705 Plain I.D. Also Avail. 50 Ser. From S/N 96000
Keeper	Both		<b>34-746</b>	2 Groove. Heat Treated. OEM # B367R
<b>LINE 13</b>	<b>201, 301 Gas, 227, 340, 341 Gas &amp; LPG</b>			<b>L4,6 BORE - 4.00"/101.6mm</b>
Valve	Exh		<b>10-658</b>	1.500 Head Dia.
	Int		<b>10-659</b>	1.688 Head Dia.
Valve Seat Insert	Exh		<b>20-1562-1N</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both		<b>30-1897</b>	2.938 OAL. OEM # R-28653-R
Keeper	Both		<b>34-746</b>	2 Groove. Heat Treated. OEM # B367R
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
<b>LINE 14</b>	<b>241, 4241, 362, 6362 Gas &amp; LPG</b>			<b>L4,6 BORE - 4.25"/107.95mm</b>
Valve	Exh		<b>10-1376S</b>	1.500 Head Dia. 1 Groove. OEM # R41413
Valve Seat Insert	Exh		<b>20-1562-1N</b>	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
Guide	Both		<b>30-1897</b>	2.938 OAL. OEM # R-28653-R
	Both		<b>30-1898</b>	3.313 OAL. 0.375 I.D. 0.626 O.D. OEM # R-28654-R
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. 3/8 Stem Dia. Heat Treated
<b>LINE 15</b>	<b>254, 381 Diesel</b>			<b>L4 BORE - 4.125"/104.7mm</b>
Valve	Exh		<b>10-660</b>	1.590 Head Dia. OEM # R26123R
Valve Seat Insert	Exh		<b>20-1625-1N</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1812-4</b>	1-9/16 I.D. 1-13/16 O.D. 7/32 Depth
Guide	Both		<b>30-1898</b>	3.313 OAL. OEM # R-28654-R
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-746</b>	2 Groove. Heat Treated. OEM # B367R
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber.
<b>LINE 16</b>	<b>270, 4270, 404 Diesel</b>			<b>L4,6 BORE - 4.25"/107.95mm</b>
Valve	Exh		<b>10-1288</b>	1.715 Head Dia. 6.227 OAL. 2 Groove. OEM #'s R32035 & R44175
	Exh		<b>10-1375</b>	1.715 Head Dia. 6.133 OAL. 1 Groove. OEM #'s R41411 & R43679
	Int		<b>10-1289</b>	1.902 Head Dia. 6.245 OAL. 2 Groove. OEM #'s R32034 & R44174
	Int		<b>10-1336S</b>	1.902 Head Dia. 6.148 OAL. 1+Oil Groove. OEM #'s R41410 & R43883
Valve Seat Insert	Exh		<b>20-1750-1N</b>	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth. Non-Magnetic Nickel
	Int		<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth. w/ 1.902 Valve Head Dia.
Guide	Both		<b>30-1898</b>	3.313 OAL. OEM # R-28654-R
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 16</b>	<b>270, 4270, 404 Diesel</b>			<b>L4,6 BORE - 4.25"/107.95mm</b>
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. 3/8 Stem
	Both		<b>34-746</b>	2 Groove. Heat Treated. OEM # B-367-R
Lifter	Both		<b>36-7015</b>	Mechanical. OEM # R52773
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. Use w/ 10-1336S and 10-1375 only. OEM # RE11410
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
<b>LINE 17</b>	<b>4045 16V 4.5L, 6068 6.8L 24V Power Tech Plus</b>			<b>L4,5 BORE -</b>
Valve	Exh		<b>10-13247</b>	1.417 Head Dia. OEM # R502370
	Int		<b>10-13246</b>	1.457 Head Dia. OEM # R518806
Valve Seat Insert	Exh		<b>22-1437-2</b>	1.125T I.D. 1.437 O.D. 0.2365 Depth. OEM # RE518083, R504968
	Int		<b>22-1476-2</b>	1.200T I.D. 1.476 O.D. 0.2445 Depth. OEM # RE518082, R504969
Guide	Both		<b>30-3141</b>	2.347 OAL.
Valve Stem Seal	Both		<b>38-6133-55</b>	Viton. Metal Clad. OEM # RE526519
Injector Component			<b>87-3609</b>	Injector O-Ring, Bottom
			<b>87-3935</b>	Injector Tube. Stainless Steel. OEM # RE543935, RE517435
			<b>87-8349</b>	Injector O-Ring, Top
<b>LINE 18</b>	<b>276D/T, 4276D/T, 414T, 6414T Turbo Diesel</b>			<b>L4 BORE - 4.19"/106.426mm</b>
Valve	Exh		<b>10-1233</b>	1.575 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79624
	Int		<b>10-1234</b>	1.772 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79623
	Int		<b>10-1471S</b>	1.821 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove
Valve Seat Insert	Exh		<b>22-1638-1N</b>	1.412 I.D. 1.638 O.D. 0.218 Depth, +10 & +20 O/S Avail., OEM # R51734
	Int		<b>22-1858-1N</b>	1.608 I.D. 1.858 O.D. 0.209 Depth. +10 & +20 O/S Avail. OEM # R73064
Guide	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-9115</b>	2.750 OAL. 0.375 Sprial I.D. 30-6115 Plain I.D. Also Avail.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. 3/8 Stem Dia. Heat Treated
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
<b>LINE 19</b>	<b>308, 321 C.I.</b>			<b>L2, H2 BORE - 5.50"/139.7mm</b>
Valve	Exh		<b>10-2635</b>	A, AN, AW & 60 Ser. (After S/N 488000); AO Ser. After S/N 260000. OEM # A2635BPL
Guide	Both		<b>30-1644</b>	4.750 OAL. A, AN, AW & 60 Ser. (After S/N 488000); AO Ser. After S/N 260000
<b>LINE 20</b>	<b>359T, 6359T Turbo, 414D, 6414D Diesel</b>			<b>L6 BORE - 4.19"/106.426mm</b>
Valve	Exh		<b>10-1233</b>	1.575 Head Dia. Late Style w/ Seal Groove Replaces Early Style w/o Seal Groove. OEM # R-79624
	Int		<b>10-1405</b>	1.821 Head Dia. 1 Groove. OEM # R-89219
	Int		<b>10-1471S</b>	1.821 Head Dia. Late Style w/ Seal Groove. OEM # R83071
Valve Seat Insert	Exh		<b>22-1638-1N</b>	1.412 I.D. 1.638 O.D. 0.218 Depth, +10 & +20 O/S Avail., OEM # R51734
	Int		<b>22-1858-1N</b>	1.608 I.D. 1.858 O.D. 0.209 Depth. +10 & +20 O/S Avail. OEM # R73064
Guide	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-7448</b>	3.000 OAL. 0.564 O.D. Conversion Guide.

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 20</b>	<b>359T, 6359T Turbo, 414D, 6414D Diesel</b>			<b>L6 BORE - 4.19"/106.426mm</b>
Guide	Both		<b>30-9458</b>	3.063 OAL. 0.374 Spiral I.D. 0.502 O.D.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. 3/8 Stem
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
<b>LINE 21</b>	<b>380 C.I. (6.2L) H2</b>			<b>H2 BORE- 5.875"/149.2mm</b>
Guide	Both		<b>30-1932</b>	5.375 OAL. 0.564 I.D. 1.003 O.D.
<b>LINE 22</b>	<b>404A Intercooled, 404T Turbo Diesel</b>			<b>L6 BORE - 4.25"/107.95mm</b>
Valve	Exh		<b>10-1377</b>	1.715 Head Dia. 6.208 OAL. 1 Groove. OEM # R50357
	Int		<b>10-1403</b>	1.715 Head Dia. 6.192 OAL. 2 Groove. OEM # R50358
	Int		<b>10-1404</b>	1.750 Head Dia. 6.128 OAL. 2 Groove. OEM # R43914
Valve Seat Insert	Exh		<b>20-1750-1N</b>	1-1/2 I.D. 1-3/4 O.D. 1/4 Depth. Non-Magnetic Nickel
	Exh		<b>20-1750-2N</b>	1 1/2 I.D.,1 3/4 O.D.,7/32 Depth +20 O/S Available,
	Int		<b>20-1750-2</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. +10 O/S Avail.
	Int		<b>20-1937-1</b>	1-11/16 I.D. 1-15/16 O.D. 1/4 Depth.
Guide	Both		<b>30-1898</b>	3.313 OAL. OEM # R-28654-R
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated. 3/8 Stem
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.
	Both		<b>38-403-45</b>	Viton. Metal Clad
<b>LINE 23</b>	<b>6076A, 6076T Turbo Diesel (466 C.I.) 7.6L 12V</b>			<b>L4 BORE - 4.57"/116mm</b>
Valve	Exh		<b>10-1586</b>	1.850 Head Dia. OEM # R84619
	Int		<b>10-1587</b>	2.008 Head Dia. OEM # R84618. +15 O/S Stem Avail.
Valve Seat Insert	Exh		<b>22-1933-2</b>	1.744T I.D. 1.933 O.D. 0.241 Depth OEM # R84976
	Int		<b>22-2051-4</b>	1.744T I.D. 2.051 O.D. 0.241 Depth. OEM # R84977
Guide	Both		<b>30-9458H</b>	3.063 OAL. 0.374 Spiral I.D. 0.502 O.D. Hardened
Spring	Both		<b>32-04012</b>	2.560 Free Length OEM# R91822
Keeper	Both		<b>34-613</b>	1 Groove. Heat Treated
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
Valve Stem Seal	Both		<b>38-2882-35</b>	Umbrella. Glass Filled Nylon. OEM # R102882
<b>LINE 24</b>	<b>466D, 6466D Diesel (7.6L)</b>			<b>L6 BORE - 4.50"/115.89mm</b>
Valve	Exh		<b>10-1375</b>	1.715 Head Dia. OEM #'s R41411 & R43679
	Int		<b>10-1336S</b>	1.902 Head Dia. Stellite Faced. OEM #'s R41410 & R43883
Valve Seat Insert	Exh		<b>20-1750-2N</b>	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1937-17</b>	1-11/16 I.D. 1-15/16 O.D. 7/32 Depth.
Guide	Both		<b>30-7248</b>	2.750 OAL. 0.564 O.D. Recommended.
	Both		<b>30-7448</b>	3.000 OAL. 0.564 O.D. Conversion Guide.
	Both		<b>30-9458</b>	3.063 OAL. 0.374 Spiral I.D. 0.502 O.D.
Spring	Both		<b>32-757</b>	2.125 Free Length. OEM # R26125
Keeper	Both		<b>34-613</b>	1 Groove. 3/8 Stem Dia. Heat Treated
Lifter	Both		<b>36-7015</b>	Mechanical. OEM # R52773
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. 0.372 Stem Dia.

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 25</b>	<b>466A Intercooled, 466T Turbo Diesel</b>			<b>L6 BORE - 4.5625"/115.89mm</b>
Valve	Exh		10-1377	1.715 Head Dia. Exc. 400 Series VE6-076. OEM # R50357
	Exh		10-1586	1.850 Head Dia. 400 Series VE6-076 & OEM # R84619
	Int		10-1403	1.715 Head Dia. Exc. 400 Series VE6-076. OEM # R50358
	Int		10-1587	2.008 Head Dia. 400 Series VE6-076 & OEM # R84618. +15 O/S Stem Avail.
Valve Seat Insert	Exh		20-1750-2N	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		20-1750-2	1-1/2 I.D. 1-3/4 O.D. 7/32 Depth. w/ 1.710 Valve Head Dia.
Guide	Both		30-7248	2.750 OAL. 0.564 O.D. Recommended.
	Both		30-7448	3.000 OAL. 0.564 O.D. Conversion Guide.
Spring	Both		32-757	2.125 Free Length. OEM # R26125
Keeper	Both		34-613	1 Groove. 3/8 Stem Dia. Heat Treated. Exc. 400 Series VE6-076
Lifter	Both		36-7015	Mechanical. OEM # R52773
Rotator / Retainer	Both		37-1410	Rotator. OEM # RE11410
<b>LINE 26</b>	<b>496 C.I. (8.1L) 6081 12 V PowerTech</b>			<b>L6 116mm/4.57"</b>
Valve	Exh		10-1586	1.850 Head Dia. OEM # R84619
	Int		10-1587	2.008 Head Dia. OEM # R84618. +15 O/S Stem Avail.
Valve Seat Insert	Exh		22-1933-2	1.744T I.D. 1.933 O.D. 0.241 Depth OEM # R84976
	Int		22-2051-4	1.744T I.D. 2.051 O.D. 0.241 Depth. OEM # R84977
Guide	Both		30-9458	3.063 OAL. 0.374 Spiral I.D. 0.502 O.D. Ream to Size.
	Both		30-9458H	3.063 OAL. 0.374 Spiral I.D. 0.502 O.D. Hardened. Ream to Size
Spring	Both		32-04012	2.560 Free Length. OEM # R91822. For Use on Some Eng.
	Both		32-5012	2.330 Free Length. OEM # R502187. Use w/o Rotator and with Oil Shield
Keeper	Both		34-613	1 Groove. Heat Treated. OEM # 76951-R1.
Rotator / Retainer	Both		37-1410	Rotator. OEM # RE11410
Valve Stem Seal	Both		38-2882-35	Umbrella. Glass Filled Nylon. OEM # R102882
<b>LINE 27</b>	<b>6531D Diesel (8.7L)</b>			<b>L6 BORE - 4.75"/120.7mm</b>
Valve	Exh		10-1406	1.875 Head Dia. OEM # R-45823
Valve Seat Insert	Exh		22-1919-1N	1.919 O.D. 1.665 I.D. 0.250 Depth. +10 & +20 O/S Avail., OEM # R41869
	Int		22-2212-1N	2.112 O.D. 1.960 I.D. 0.250 Depth. +10 & +20 O/S Avail. OEM # R41868
Guide	Both		30-1967	3.188 OAL. OEM # R-40357
	Both		30-8004	3.188 OAL. Undercut For Rototype Valves. OEM # R-53192
Spring	Both		32-04037	2.320 Free Length. Inner. OEM # R49569
	Both		32-04038	2.520 Free Length. Outer. OEM # R49571
Keeper	Both		34-802	1 Groove. Heat Treated
<b>LINE 28</b>	<b>6531A Intercooled Turbo Diesel</b>			<b>L6 BORE - 4.75"/120.65mm</b>
Valve	Exh		10-1408	1.875 Head Dia. OEM # R-90601
	Int		10-1409	2.031 Head Dia. OEM # R-49566
Valve Seat Insert	Exh		22-1991-1N	1.991 O.D. 1.616 I.D. 0.309 Depth. +10 & +20 O/S Avail. OEM #'s R48314 & R60537
	Int		22-2136-1N	2.136 O.D. 1.705 I.D. 0.319 Depth. +10 & +20 O/S Avail. OEM #'s R48313 & R59894
Guide	Both		30-1967	3.188 OAL. OEM # R-40357
	Both		30-8004	3.188 OAL. Undercut For Rototype Valves. OEM # R-53192

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 28</b>	<b>6531A Intercooled Turbo Diesel</b>			<b>L6 BORE - 4.75"/120.65mm</b>
Spring	Both		<b>32-04037</b>	2.320 Free Length. Inner. OEM # R49569
	Both		<b>32-04038</b>	2.520 Free Length. Outer. OEM # R49571
Keeper	Both		<b>34-802</b>	1 Groove. Heat Treated
<b>LINE 29</b>	<b>549 C.I. (9.0L) 24V 6090 Power Tech Plus</b>			<b>L6</b>
Valve	Exh		<b>10-13178S</b>	1.575 Head Dia. OEM # R520224
	Int		<b>10-13177S</b>	1.575 Head Dia. OEM # R520223
Valve Seat Insert	Both		<b>22-1638-2N</b>	1.400 I.D. 1.638 O.D. 0.218 Depth. OEM # R527285
Guide	Both		<b>30-3131</b>	2.465 OAL. OEM # R527286
Spring	Both		<b>32-5002</b>	2.185 Free Length. OEM # R504235
Keeper	Both		<b>34-01889</b>	1 Round Groove
Valve Stem Seal	Both		<b>38-6122-55</b>	Viton. Top Hat. OEM # RE529187
Injector Component	Both		<b>87-3609</b>	Injector O-Ring, Bottom
	Both		<b>87-3935</b>	Injector Tube. Stainless Steel. OEM # RE543935, RE517435
	Both		<b>87-8349</b>	Injector O-Ring, Top
<b>LINE 30</b>	<b>6101A (10.1L) 12V Turbo Diesel "500 Series"</b>			<b>L6 BORE - 5.12"130mm</b>
Guide	Both		<b>30-3027</b>	3.189 OAL. 0.3750 I.D. 0.7833 O.D. Use w/ 3/8 Stem. OEM # R108988
Spring	Both		<b>32-04012</b>	2.560 Free Length OEM# R91822
Keeper	Both		<b>34-613</b>	1 Square Groove. Heat Treated
Rotator / Retainer	Both		<b>37-1410</b>	Rotator. OEM # RE11410
Valve Stem Seal	Both		<b>38-2882-35</b>	Umbrella. Glass Filled Nylon. OEM # R102882
<b>LINE 31</b>	<b>6619T Intercooled Turbo Diesel 12V</b>			<b>L6 BORE - 5.12"/130mm</b>
Valve	Exh		<b>10-1412</b>	1.875 Head Dia. From S/N 021562 To 499,999. OEM # R63982
	Int		<b>10-1590S</b>	2.031 Head Dia. OEM # R81087, R75690 & R63981. From S/N 021562 To 499,999
Valve Seat Insert	Exh		<b>22-1991-1N</b>	1.991 O.D. 1.616 I.D. 0.309 Depth. +10 & +20 O/S Avail. OEM #'s R48314 & R60537
	Int		<b>22-2136-1N</b>	2.136 O.D. 1.705 I.D. 0.319 Depth. +10 & +20 O/S Avail. OEM #'s R48313 & R59894
Guide	Both		<b>30-1967</b>	3.188 OAL. OEM # R-40357
	Both		<b>30-3027</b>	3.189 OAL. 0.3750 I.D. 0.7833 O.D. Use w/ 3/8 Stem. OEM # R108988
	Both		<b>30-8004</b>	3.188 OAL. 0.4375 I.D. 0.7835 O.D. Rototype. Up To S/N 499,999. Use with 7/16 Valve Stem Dia.
Spring	Both		<b>32-04037</b>	2.320 Free Length. Inner. OEM # R49569
	Both		<b>32-04038</b>	2.520 Free Length. Outer. OEM # R49571
Keeper	Both		<b>34-802</b>	1 Groove. Heat Treated
Rotator / Retainer	Both		<b>37-1086</b>	Rotator. Up to S/N 499,999. Use with 0.432 Stems. OEM # R81086
<b>LINE 32</b>	<b>10.5L (644 C.I.) Power Tech 6105A 24V</b>			<b>L6 BORE - 138mm/5.43"</b>
Valve	Both		<b>10-1889</b>	1.830 Head Dia. Inconel Head. OEM # R122035
Guide	Both		<b>30-3050</b>	3.355 OAL. 0.5905 O.D. 0.3570 I.D. OEM # R517011
Spring	Both		<b>32-04039</b>	2.760 Free Length. OEM # R133891
Keeper	Both		<b>34-01889</b>	1 Round Groove
Valve Stem Seal	Both		<b>38-6635-45</b>	OEM # RE66635
Injector Component			<b>87-1559</b>	Injector Tube, Stainless. For Dual Rail. OEM # R501559, RE528634

# JOHN DEERE

# TRACTOR

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 32</b>	<b>10.5L (644 C.I.) Power Tech 6105A 24V</b>			<b>L6 BORE - 138mm/5.43"</b>
Injector Component			<b>87-2075</b>	Injector O-Ring. Top for Both 87-1559, 87-8339. OEM # T122075
			<b>87-2076</b>	Injector O-Ring. Bottom for 87-1559.
			<b>87-8339</b>	Injector Tube. Stainless. For Single Rail. OEM # RE518339, RE531334
<b>LINE 33</b>	<b>12.5L (766 C.I.) Power Tech 6125A 24V</b>			<b>L6 BORE - 165mm/6.50"</b>
Valve	Both		<b>10-1889</b>	1.830 Head Dia. Inconel Head. OEM # R121812, R122035
Valve Seat Insert	Both		<b>22-1951-1</b>	1.510T I.D. 1.951 O.D. 0.290 Depth. OEM # R502401, R504713
Guide	Both		<b>30-3050</b>	3.355 OAL. 0.5905 O.D. 0.3570 I.D. OEM # R517011
Spring	Both		<b>32-04039</b>	2.760 Free Length. OEM # R133891
Keeper	Both		<b>34-01889</b>	1 Round Groove
Valve Stem Seal	Both		<b>38-6635-45</b>	OEM # RE66635
Injector Component			<b>87-1559</b>	Injector Tube, Stainless. For Dual Rail. OEM # R501559, RE528634
			<b>87-2075</b>	Injector O-Ring. Top for Both 87-1559, 87-8339. OEM # T122075
			<b>87-2076</b>	Injector O-Ring. Bottom for 87-1559.
			<b>87-8339</b>	Injector Tube. Stainless. OEM # RE518339, RE531334
<b>LINE 34</b>	<b>824 C.I. (13.5L) 6135 24V Power Tech Plus</b>			<b>L6 BORE - 5.2"/132mm</b>
Valve	Both		<b>10-13176</b>	1.732 Head Dia. OEM # R518328
Valve Seat Insert	Both		<b>22-1832-1</b>	1.510T I.D. 1.832 O.D. 0.241 Depth. OEM # R518327
Guide	Both		<b>30-3050</b>	3.355 OAL. 0.5905 O.D. 0.3570 I.D. OEM # R517011
Spring	Both		<b>32-04039</b>	2.760 Free Length. OEM # R133891
Keeper	Both		<b>34-01889</b>	1 Round Groove
Valve Stem Seal	Both		<b>38-6121-55</b>	Viton. Top Hat. OEM # RE523985
Injector Component	Both		<b>87-7257</b>	Injector O-Ring, Both.
	Both		<b>87-8339</b>	Injector Tube. Stainless. OEM # RE518339, RE531334

# KOMATSU

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
6D105		L6	1
S4D120		4	2
495 C.I. (8.1L) OHV 16V (Cummins) Diesel		L4	3
743 C.I. (12.2L) OHV 12V (Cummins) Diesel		L6	4
855 C.I. (14.0L) OHV 12V (Cummins) Diesel		L6	5
S6D155 Turbo Diesel & SA6D155 Intercooled 12V		L6	6

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>6D105</b>			<b>L6 BORE - 4.137"/105mm</b>
Valve Seat Insert	Exh		22-1735-4	1.340T I.D. 1.735 O.D. 0.353 Depth. OEM # 6136-12-1320. Special Order Only
	Int		22-1885-1	1.575 I.D. 1.885 O.D. 0.333 Depth. Special Order Only
<b>LINE 2</b>	<b>S4D120</b>			<b>4 BORE - 120mm/4.72"</b>
Guide	Both		30-8159	3.265 OAL. OEM # 6110131311
<b>LINE 3</b>	<b>495 C.I. (8.1L) OHV 16V (Cummins) Diesel</b>			<b>L4 BORE - 5.125"/130mm</b>
Valve	Both		10-326S	1.745 Head Dia. Stellite Face. OEM #'s 70671 & 144911
Valve Seat Insert	Both		22-1847-1	1-9/16 I.D. 1.8465 O.D. 9/32 Depth. +5, 10, 20, 30 O/S Avail. OEM # 69965, Exc. Natural Gas
Guide	Both		30-1969	3.438 OAL. +3 O/S Avail. OEM # 66890.
Keeper	Both		34-746	2 Groove. OEM # 381875
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. 1 Ring
<b>LINE 4</b>	<b>743 C.I. (12.2L) OHV 12V (Cummins) Diesel</b>			<b>L6 BORE - 5.125"/130mm</b>
Valve	Both		10-326S	1.745 Head Dia. Stellite Face. OEM #'s 70671 & 144911
Valve Seat Insert	Both		22-1847-1	1-9/16 I.D. 1.8465 O.D. 9/32 Depth. +5, 10, 20, 30 O/S Avail. OEM # 69965, Exc. Natural Gas
Guide	Both		30-1969	3.438 OAL. +3 O/S Avail. OEM # 66890.
Spring	Both		32-681	3.160 Free Length. OEM # 111446
Keeper	Both		34-746	2 Groove. OEM # 381875
Valve Stem Seal	Both		38-1054-70	Teflon And Rubber. 1 Ring
Rocker Component			42-7544	Injector Roller Pin. OEM # 3017544
			42-9260	Valve Roller. OEM # 9260-1
	Both		42-7096	Injector Cam Roller, Small Cam. OEM # 3062096
<b>LINE 5</b>	<b>855 C.I. (14.0L) OHV 12V (Cummins) Diesel</b>			<b>L6 BORE - 5.50"/140mm</b>
Valve	Both		10-602	1.870 Head Dia. Bi-Metallic. OEM # 3040830 w/ Letter "N" In Head
	Exh		10-602S	1.870 Head Dia. Bi-Metallic w/ Stellite. OEM # 145701 w/ Letter "S" In Head
	Int		10-603	1.870 Head Dia. Mono-metallic. OEM # 135957
Valve Seat Insert	Both		22-2003-1	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 3107759 w/ Std. O.D.
	Both		22-2003-1N	1-11/16 I.D. 2.003 O.D. 9/32 Depth. OEM # 127930 w/ Std. O.D. Non-Magnetic For Turbo and High Heat Applications
	Both		22-2006-1	1-11/16 I.D. 2.006 O.D. 9/32 Depth. +5, 10, 20, 30, 40 O/S Avail.
	Both		22-2006-1N	1-11/16 I.D. 2.006 O.D. 9/32 Depth. Non-Magnetic For Turbo & High Heat Applications. +5, 10, 20, 30, 40 O/S Avail.
	Both		22-2006-5	1.690 I.D. 2.006 O.D. 0.214 Depth, OEM # 3054590, +5, +10, +20 & +30 O/S Avail.
	Both		22-2006-6S	1.630 I.D. 2.006 O.D. 0.280 Depth, OEM #'s 80610016 & 90210014, Stellite # 3 Matl., Can Be Used w/ Natural Gas 15 & 20 Deg. Valves
Guide	Both		30-6452	3.195 OAL. Machined For Seal. OEM # 174214



# KOMATSU

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>855 C.I. (14.0L) OHV 12V (Cummins) Diesel</b>			<b>L6 BORE - 5.50"/140mm</b>
Guide	Both		<b>30-7264</b>	Same As 30-1942+10 O.D. OEM # 3006457. 30-7265 Same As 30-1942+15 O.D. OEM # 3006458
	Both		<b>30-7994</b>	3.400 OAL. w/o Sharp Edge (Otherwise Same As 30-1942). OEM # 3050369. Can Be Used For OEM # 3006456. +2 O/S Avail.
Spring	Both		<b>32-1014</b>	2.685 Free Length. OEM # 211999
	Both		<b>32-1332</b>	2.635 Free Length. OEM # 3035996, 3081212
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated. OEM # 127554
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring
Rocker Component			<b>42-3330</b>	Injector Roller Pin, Big Cam. OEM # 3013330
			<b>42-3331</b>	Valve Roller Pin Big Cam. OEM # 3013331
			<b>42-3558</b>	Rocker Bridge Guide. OEM # 123558
			<b>42-6933</b>	Valve Cam Roller, Big Cam. OEM # 3036933
			<b>42-6934</b>	Injector Cam Roller, Big Cam. OEM # 3036934
			<b>42-7096</b>	Injector Cam Roller, Small Cam. OEM # 3062096
			<b>42-7544</b>	Injector Roller Pin, Small Cam. OEM # 3017544
			<b>42-8939</b>	Rocker Roller Pin. OEM # 118939
			<b>42-9260</b>	Valve Roller. OEM # 9260-1
	Push Rod	Both		<b>74-6430</b>
Injector Component			<b>87-0486</b>	Injector Tube, Thin Nose. OEM # 3070486, 3011934
			<b>87-0486K</b>	Injector Tube 87-0486 and 87-7759 Ring Kit
			<b>87-1147</b>	Injector Tube, Thick Nose. OEM # 3011935, 3071147
			<b>87-7759</b>	Injector O-Ring. OEM # 3007759
<b>LINE 6</b>	<b>S6D155 Turbo Diesel &amp; SA6D155 Intercooled 12V</b>			<b>L6 BORE - 6.107"/155mm</b>
Valve Seat Insert	Exh		<b>22-2247-1</b>	1.895 I.D. 2.2475 O.D. 0.3525 Depth. OEM # 6127-11-1325
	Int		<b>22-2366-1</b>	2.010 I.D. 2.3665 O.D. 0.3525 Depth. OEM # 6127-11-1335
Guide	Both		<b>30-8160</b>	3.360 OAL. OEM # 6127-11-1341

# KUBOTA

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
1.2L, Diesel V1100, V1200B		L4	1
1.4L, 1.7L, 1.9L Diesel D1403, D1703, V1903		L3-4	2
1.4L, 1.7L, 1.9L 1402, 1702/B, 1902/B Diesel		L3-6	3
2.0L (122 C.I.) V2003 Turbo Diesel		L4	4
2.2L (134 C.I.) V2203/B Diesel		L4	5

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1.2L, Diesel V1100, V1200B</b>		<b>L4</b>	<b>BORE - 72mm</b>
Valve	Exh		10-13021	1.084 Head Dia. OEM # 1539313120. Special Order Only
	Int		10-13020	1.225 Head Dia. OEM # 1539313110. Special Order Only
<b>LINE 2</b>	<b>1.4L, 1.7L, 1.9L Diesel D1403, D1703, V1903</b>		<b>L3-4</b>	<b>BORE - 3.15", 3.43"</b>
Guide	Exh		30-8348	1.850 OAL. OEM # 15221-13560
	Int		30-8347	1.890 OAL. OEM # 15221-13540
<b>LINE 3</b>	<b>1.4L, 1.7L, 1.9L 1402, 1702/B, 1902/B Diesel</b>		<b>L3-6</b>	<b>BORE - 82mm</b>
Valve	Exh		10-13023	1.063 Head Dia. OEM # 15221-13120
	Int		10-13022	1.299 Head Dia. OEM # 15221-13110
Guide	Exh		30-8348	1.850 OAL. OEM # 15221-13560
	Int		30-8347	1.890 OAL. OEM # 15221-13540
Spring	Both		32-5000	1.668 Free Length. OEM # 15221-13240
Keeper	Both		34-5029	Single Groove. OEM # 15221-13980
<b>LINE 4</b>	<b>2.0L (122 C.I.) V2003 Turbo Diesel</b>		<b>L4</b>	<b>BORE - 83mm</b>
Guide	Exh		30-8348	1.850 OAL. OEM # 15221-13560
	Int		30-8347	1.890 OAL. OEM # 15221-13540
Spring	Both		32-5000	1.668 Free Length. OEM # 15221-13240
Keeper	Both		34-5029	Single Groove. OEM # 15221-13980
<b>LINE 5</b>	<b>2.2L (134 C.I.) V2203/B Diesel</b>		<b>L4</b>	<b>BORE - 87mm</b>
Guide	Exh		30-8348	1.850 OAL. OEM # 15221-13560
	Int		30-8347	1.890 OAL. OEM # 15221-13540
Spring	Both		32-5000	1.668 Free Length. OEM # 15221-13240
Keeper	Both		34-5029	Single Groove. OEM # 15221-13980

# LISTER-PETTER

# INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
HR2, HR3, HR4, HR6 Diesel		L2-6	1

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>				
<b>HR2, HR3, HR4, HR6 Diesel</b>				<b>L2-6 BORE - 4.25"/108mm</b>
<b>Guide</b>	Exh		<b>30-8400</b>	2.500 OAL. Plain I.D.
	Int		<b>30-8399</b>	2.500 OAL. Plain I.D.

ENGINE	YEAR	CYL.	LINE NO.
140, 210, 226 EN-11, EN-12 12V		L6	1
10.8L (661 C.I) MP7, 12.8L MP8 24V SOHC Turbo		L6	2
E6-2V, E6350-2V		L6	3
E6-4V, E7-4V, E6350-4V		L6	4
11.0L EN672, EN673 Ser. 12V, Turbo		L6	5
ENDT675, ETSX675, ET-675 Diesel		L6	6
ENDT676, ETSX676 12V		L6	7
E9, EM9 Diesel 12V		L6	8
11.6L EN707 Ser., EN711 Ser. 12V Diesel		L6	9
12.1L E7-ETECH, ASET 4V		L6	10
14.2L EN-864 Diesel		L8	11

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>140, 210, 226 EN-11, EN-12 12V</b>			<b>L6</b>	<b>BORE - 3.188"/81mm</b>
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Valve	Exh		10-196	1.328 Head Dia. w/ Drilled Stem. Exc. 140
	Exh		10-210	1.328 Head Dia. Use w/ Rotocap
	Int		10-810	1.516 Head Dia. w/ Drilled Stem. Exc. 140
Valve Seat Insert	Exh		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-1515	2.563 OAL. OEM # 714GB199A
Spring	Both		32-466	1.969 Free Length. w/o Rotocaps. Exc. 140. OEM # 575-GC-14A
Keeper	Both		34-159	Pin For 0.30 Drilled Stem.
	Exh		34-555	1 Square Groove. Heat Treated

<b>LINE 2</b>	<b>10.8L (661 C.I) MP7, 12.8L MP8 24V SOHC Turbo</b>			<b>L6</b>	<b>BORE - 4.84"/ 123mm</b>
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Guide	Both		30-3157	3.285 OAL. OEM # 20904074
Spring	Both		32-5013	2.765 Free Length. Inner. OEM # 3183211
	Both		32-5014	3.035 Free Length. Outer. OEM # 3183210
Injector Component	Both		87-6487	Injector O-Ring, Viton. OEM # 20536487

<b>LINE 3</b>	<b>E6-2V, E6350-2V</b>			<b>L6</b>	<b>4.875"/123.73mm</b>
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Valve	Exh		10-1446	1.889 Head Dia. 2V Head, Late Style w/ 0.137 Wide Lock Groove. OEM # 688GC337A
	Int		10-1415S	2.245 Head Dia. 0.497 Stem. w/ 0.137 Wide Lock Groove. OEM # 690GC2193
Valve Seat Insert	Exh		22-2088-1	1.692 I.D. 2.088 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 43, 62 O/S Avail. OEM #13GC2247P1
	Int		22-2444-1	2.046 I.D. 2.444 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 62 O/S Avail. OEM # 13GC2234P1
Guide	Both		30-1810	Use w/ 0.4975 Stem Valve. 0.5015 I.D. 3.500 OAL. OEM # 714GB1309
	Both		30-7592	3.500 OAL. 0.494 I.D. 0.6886 O.D.
Spring	Both		32-1216	3.543 Free Length. Outer. OEM # 575GC1100
	Both		32-1217	3.030 Free Length. Inner. OEM # 575GC199, 575GC31
	Both		32-467	3.543 Free Lenth. Outer. Use w/ Stem Seal. 1.206 I.D.
	Both		32-695	3.031 Free Length. Inner. Use w/ Stem Seal. 0.794 I.D.
Keeper	Both		34-802	1 Groove. OEM # 54-GC-126
Rotator / Retainer	Both		37-9226	Rotator. OEM # 722GC226, 722GC219A
Valve Stem Seal	Both		38-545-45	Viton. Metal Clad. Late Style. OEM # 446GC279

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# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>E6-4V, E7-4V, E6350-4V</b>		<b>L6</b>	<b>BORE - 4.875"/123.73mm</b>
Valve	Exh		<b>10-1570</b>	1.573 Head Dia. 6.872 OAL. Late Style w/ 0.375 Stem. This Valve Can Be Used To Replace Early 7/16 Stems. Replace Valves, Guides, Spring Retainers And Keepers With 3/8 Components. OEM # 688GC2378
	Exh		<b>10-1750</b>	1.573 Head Dia. 0.3715 Stem. 6.887 OAL. OEM # 688GC2389
	Exh		<b>10-3041</b>	1.575 Head Dia. 20 Deg. Natl. Gas. OEM # 688GC416
	Int		<b>10-1571S</b>	1.694 Head Dia. Late Style w/ 0.375 Stem. This Valve Can Be Used To Replace Early 7/16 Stem. Replace The Valves, Guides, Spring Retainers And Keepers With 3/8 Components. OEM # 690GC2210
	Int		<b>10-1928S</b>	1.694 Head Dia. 0.3725 Stem. 7.056 OAL. 20 Deg. OEM # 690GC410, 690GC432
	Int		<b>10-3042</b>	1.693 Head Dia. 7.051 OAL 20 Deg. Natl. Gas. OEM # 690GC342
Valve Seat Insert	Exh		<b>22-1692-1N</b>	1.430 I.D. 1.6925 O.D. 0.248 Depth. 30 Deg. +5, 15, 30 O/S Avail. OEM # 13GC2264
	Exh		<b>22-1692-2N</b>	1.430 I.D. 1.6925 O.D. 0.248 Depth. 20 Deg. For 10-3041 Natl. Gas.
	Int		<b>22-1831-1</b>	1.555 I.D. 1.8315 O.D. 0.280 Depth. 30 Deg. +5, 15, 30 O/S Avail. OEM # 13GC2257
	Int		<b>22-1831-3N</b>	1.555 I.D. 1.8315 O.D. 0.280 Depth. 20 Deg. For 10-3042
Guide	Both		<b>30-8007</b>	3.146 OAL. 0.4313 Unfinished I.D. Ream To Size
	Both		<b>30-8008</b>	3.146 OAL. 0.4375 I.D. Use w/ Early Style 0.4375 Valve Stem
	Both		<b>30-8009</b>	3.155 OAL. 0.3695 Unfinished I.D. Ream To Size
	Both		<b>30-8010</b>	3.155 OAL. 0.375 I.D. Check I.D. and Length. 714GB222P2
	Both		<b>30-8105</b>	3.406 OAL. OEM # 714GB26P2
Spring	Both		<b>32-04011</b>	2.717 Free Length. OEM # 575GC213
	Both		<b>32-04023</b>	2.875 Free Length. Inner. Dual. OEM # 575GC1115
	Both		<b>32-04024</b>	2.940 Free Length. Outer Dual, Single. OEM# 575GC36
Keeper	Both		<b>34-05425</b>	1 Square Groove. OEM # 54GC25
Rotator / Retainer	Both		<b>37-2313</b>	Rotator. OEM # 722GC313A. Use w/ 32-04024 Single Spring
Valve Stem Seal	Both		<b>38-6328-55</b>	Metal Clad. Viton. OEM # 466GC296, 446GC328
Injector Component			<b>87-212A</b>	Injector Tube. OEM # 12GC212A
<b>LINE 5</b>	<b>11.0L EN672, EN673 Ser. 12V, Turbo</b>		<b>L6</b>	<b>BORE - 4.875"/123.73mm</b>
Valve	Exh		<b>10-1037</b>	1.889 Head Dia. Early Style w/ 0.293 Wide Lock Groove. OEM # 688GC2352A
	Exh		<b>10-1446</b>	1.889 Head Dia. Late Style w/ 0.137 Wide Lock Groove. OEM # 688GC337A
	Int		<b>10-1036S</b>	2.245 Head Dia. Early Style w/ 0.293 Wide Lock Groove. OEM # 690GC2187A,B
	int		<b>10-1415S</b>	2.245 Head Dia. 0.497 Stem. w/ 0.137 Wide Lock Groove. OEM # 690GC2193
Valve Seat Insert	Exh		<b>22-2088-1</b>	1.692 I.D. 2.088 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 43, 62 O/S Avail. OEM #13GC2247P1
	Int		<b>22-2444-1</b>	2.046 I.D. 2.444 O.D. 0.299 Depth, 2 Valve Head, +5, 10, 15, 20, 30, 62 O/S Avail. OEM # 13GC2234P1
Guide	Both		<b>30-1809</b>	3.500 OAL. Plain I.D. OEM # 714GB1308P2
	Both		<b>30-7592</b>	3.500 OAL. 0.494 I.D. OEM # 714GB210P2
	Both		<b>30-7903</b>	Same As 30-1809 w/ Spiral Ream I.D.
	Exh		<b>30-1810</b>	Use w/ 0.4975 Stem Valve. 0.5015 I.D. 3.500 OAL. OEM # 714GB1309
Spring	Both		<b>32-1216</b>	3.543 Free Length. Outer. Late Style. OEM # 575GC1100
	Both		<b>32-1217</b>	3.03 Free Length. Inner. Late Style. OEM # 575GC31
	Both		<b>32-467</b>	3.543 Free Length. Outer. OEM # 575-GC-146

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# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>11.0L EN672, EN673 Ser. 12V, Turbo</b>			<b>L6 BORE - 4.875"/123.73mm</b>
Spring	Both		<b>32-695</b>	3.031 Free Length. Inner. Early Style. OEM # 575-GG-172
Keeper	Both		<b>34-802</b>	w/.137 Wide Groove. OEM # 54-GC-126
	Both		<b>34-810</b>	w/ 0.293 Wide Groove. OEM # 54-GC-19
Valve Stem Seal	Both		<b>38-545-45</b>	Viton. Metal Clad. Late Style. OEM # 446GC279
Injector Component			<b>87-0129</b>	Injector Tube. OEM # 12GC129
<b>LINE 6</b>	<b>ENDT675, ETSX675, ET-675 Diesel</b>			<b>L6 BORE - 4.875"/123.73mm</b>
Valve	Exh		<b>10-1037</b>	1.889 Head Dia. 2V Head, Early Style w/ 0.293 Wide Lock Groove. OEM # 688GC2352A
	Exh		<b>10-1446</b>	1.889 Head Dia. 2V Head, Late Style w/ 0.137 Wide Lock Groove. OEM # 688GC337A
	Int		<b>10-1036S</b>	2.245 Head Dia. 2V Head, Early Style w/ 0.293 Wide Lock Groove. OEM # 690GC2187A,B
	Int		<b>10-1415S</b>	2.245 Head Dia. 2V Head, Late Style w/ 0.137 Wide Lock Groove. OEM # 690GC2193
Valve Seat Insert	Exh		<b>22-2088-1</b>	1.692 I.D. 2.088 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 43, 62 O/S Avail. OEM #13GC2247P1
	Int		<b>22-2444-1</b>	2.046 I.D. 2.444 O.D. 0.299 Depth, 2 Valve Head, +5, 10, 15, 20, 30, 62 O/S Avail. OEM # 13GC2234P1
Guide	Both		<b>30-1809</b>	3.500 OAL. Plain I.D. OEM # 714GB1308P2
	Both		<b>30-7592</b>	3.500 OAL. 0.494 I.D. OEM # 714-GB-210-P2
	Both		<b>30-7903</b>	Same As 30-1809 w/ Spiral Ream I.D.
	Exh		<b>30-1810</b>	Use w/ 0.4975 Stem Valve. 0.5015 I.D. 3.500 OAL. OEM # 714GB1309
Spring	Both		<b>32-1216</b>	3.543 Free Length. Outer. OEM # 575-GC-1100
	Both		<b>32-1217</b>	3.030 Free Length. Inner. Not for Seal. OEM # 575-GC-199
	Both		<b>32-467</b>	3.543 Free Length. Outer. OEM # 575-GC-146
	Both		<b>32-695</b>	3.031 Free Length. Inner. Use w/ Seal. OEM # 575-GG-172
Keeper	Both		<b>34-802</b>	1 Square Groove
	Both		<b>34-810</b>	w/ 0.293 Wide Groove. OEM # 54-GC-19
Rotator / Retainer	Both		<b>37-9226</b>	Rotator. OEM # 722GC226, 722GC219A
Valve Stem Seal	Both		<b>38-545-45</b>	Viton. Metal Clad. Late Style. OEM # 446GC279
Injector Component			<b>87-0129</b>	Injector Tube. OEM # 12GC129
<b>LINE 7</b>	<b>ENDT676, ETSX676 12V</b>			<b>L6 BORE - 4.875"/123.73mm</b>
Valve	Exh		<b>10-1446</b>	1.889 Head Dia. 2V Head, Late Style w/ 0.137 Wide Lock Groove. OEM # 688GC337A
	Int		<b>10-1415S</b>	2.245 Head Dia. 2V Head, Late Style w/ 0.137 Wide Lock Groove. OEM # 690GC2193
Valve Seat Insert	Exh		<b>22-2088-1</b>	1.692 I.D. 2.088 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 43, 62 O/S Avail. OEM #13GC2247P1
	Int		<b>22-2444-1</b>	2.046 I.D. 2.444 O.D. 0.299 Depth, 2 Valve Head, +5, 10, 15, 20, 30, 62 O/S Avail. OEM # 13GC2234P1
Guide	Both		<b>30-1809</b>	3.500 OAL. Plain I.D. OEM # 714-GB-1308-P2
	Both		<b>30-7592</b>	3.500 OAL. 0.494 I.D. OEM # 714-GB-210-P2
	Both		<b>30-7903</b>	Same As 30-1809 w/ Spiral Ream I.D.
	Exh		<b>30-1810</b>	3.500 OAL
Spring	Both		<b>32-1216</b>	3.543 Free Length. Outer. OEM # 575-GC-1100
	Both		<b>32-1217</b>	3.030 Free Length. Inner. OEM # 575-GC-199
Keeper	Both		<b>34-802</b>	w/.137 Wide Groove. OEM # 54-GC-126
Rotator / Retainer	Both		<b>37-9226</b>	Rotator. OEM # 722GC226, 722GC219A

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# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 7</b>	<b>ENDT676, ETSX676 12V</b>			<b>L6 BORE - 4.875"/123.73mm</b>
Valve Stem Seal	Both		38-545-45	Viton. Metal Clad. Late Style. OEM # 446GC279
Injector Component			87-0129	Injector Tube. OEM # 12GC129
<b>LINE 8</b>	<b>E9, EM9 Diesel 12V</b>			<b>L6 BORE - 5.00"/126.9mm</b>
Valve Seat Insert	Exh		22-1725-2N	1.460 I.D. 1.725 O.D. 0.251 Depth.
	Int		22-1841-1	1.560 I.D. 1.841 O.D. 0.251 Depth. +5, 10, 15, 20, 30 O/S Avail.
Guide	Both		30-8007	3.146 OAL. Unfinished I.D. Ream To Size.
	Both		30-8009	3.155 OAL. Unfinished I.D. Ream To Size
	Both		30-8010	3.155 OAL. 0.375 I.D. Check I.D. & Length. 714GB222P2
	Both		30-8105	3.406 OAL. OEM # 714GB26P2
Spring	Both		32-04011	2.717 Free Length. OEM # 575GC213
<b>LINE 9</b>	<b>11.6L EN707 Ser., EN711 Ser. 12V Diesel</b>			<b>L6 BORE - 5.00"/126.9mm</b>
Valve	Exh		10-1037	1.889 Head Dia. 2V Head, Early Style w/ 0.293 Wide Lock Groove. OEM # 688GC2352A
	Exh		10-1446	1.889 Head Dia. 2V Head, Late Style w/ 0.137 Wide Lock Groove. OEM # 688GC337A
	Int		10-1036S	2.245 Head Dia. 2V Head, Early Style w/ 0.293 Wide Lock Groove. OEM # 690GC2187A,B
Valve Seat Insert	Exh		22-2088-1	1.692 I.D. 2.088 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 43, 62 O/S Avail. OEM #13GC2247P1
	Int		22-2444-1	2.046 I.D. 2.444 O.D. 0.299 Depth, 2 Valve Head, +5, 10, 15, 20, 30, 62 O/S Avail. OEM # 13GC2234P1
Guide	Both		30-1809	3.500 OAL. Plain I.D. OEM # 714-GB-1308-P2
	Both		30-7592	3.500 OAL. 0.494 I.D. 0.6886 O.D.
	Both		30-7903	Same As 30-1809 w/ Spiral Ream I.D.
Spring	Both		32-1216	3.543 Free Length. Outer. OEM # 575-GC-1100
	Both		32-1217	3.03 Free Length. Inner. Late Style. OEM # 575GC31
	Both		32-467	3.543 Free Length. Outer. OEM # 575-GC-146
	Both		32-695	3.031 Free Length. Inner. OEM # 575-GG-172
Keeper	Both		34-810	w/ 0.293 Wide Groove. OEM # 54-GC-19
Valve Stem Seal	Both		38-545-45	Viton. Metal Clad. Late Style. OEM # 446GC279
<b>LINE 10</b>	<b>12.1L E7-E TECH, ASET 4V</b>			<b>L6 BORE - 4.875"/124mm</b>
Valve	Exh		10-2095	1.573 Head Dia. 6.992 OAL. Inconel. 30 Degree. OEM # 688GC344
	Int		10-1910S	1.694 Head Dia. 6.956 OAL 20 Degree. OEM# 690GC417
	Int		10-1928S	1.694 Head Dia. 7.055 OAL. 20 Degree. OEM # 690GC410, 690GC432
Valve Seat Insert	Exh		22-1692-1N	1.430 I.D. 1.6925 O.D. 0.248 Depth. +15, 30 O/S Avail. OEM # 13GC2264
	Int		22-1831-2	1.550 I.D. 1.831 O.D. 0.253 Depth. +5, 15, 30 O/S Avail. OEM # 13GC316
Guide	Both		30-3043	3.110 OAL. ASET. OEM # 714GC3113A
	Both		30-8010	3.155 OAL. OEM # 714GB-222P2
Spring	Both		32-04023	2.875 Free Length. Inner. Dual. OEM # 575GC1115
	Both		32-04024	2.940 Free Length. Outer Dual, Single. OEM# 575GC36
Keeper	Both		34-05425	1 Square Groove. OEM # 54GC25
Rotator / Retainer	Both		37-2313	Rotator. OEM # 722GC313A. Use w/ 32-04024 Single Spring
	Both		37-9320	Rotator. OEM # 722GC320. Use w/ Dual Spring
Valve Stem Seal	Both		38-2000-55	Metal Clad. Viton. Use w/ 30-3043. OEM # 446GC332.

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 10</b>	<b>12.1L E7-ETECH, ASET 4V</b>			<b>L6 BORE - 4.875"/124mm</b>
Valve Stem Seal	Both		<b>38-6328-55</b>	Metal Clad. Viton. Use w/ 30-8010. OEM # 446GC328
Injector Component			<b>87-0411</b>	Injector Tube. OEM # 12GC411
			<b>87-0412</b>	Injector Tube. OEM # 12GC412. ASET
<b>LINE 11</b>	<b>14.2L EN-864 Diesel</b>			<b>L8 BORE - 5.00"/126.9mm</b>
Valve	Exh		<b>10-1037</b>	1.889 Head Dia. 2V Head, Early Style w/ 0.293 Wide Lock Groove. OEM # 688GC2352A
	Int		<b>10-1036S</b>	2.245 Head Dia. 2V Head, Early Style w/ 0.293 Wide Lock Groove. OEM # 690GC2187A,B
Valve Seat Insert	Exh		<b>22-2088-1</b>	1.692 I.D. 2.088 O.D. 0.299 Depth. +5, 10, 15, 20, 30, 43, 62 O/S Avail. OEM #13GC2247P1
	Int		<b>22-2444-1</b>	2.046 I.D. 2.444 O.D. 0.299 Depth, 2 Valve Head, +5, 10, 15, 20, 30, 62 O/S Avail. OEM # 13GC2234P1
Spring	Both		<b>32-1216</b>	3.543 Free Length. Outer. OEM # 575GC1100
	Both		<b>32-1217</b>	3.030 Free Length. Inner. OEM # 575-GC-199
	Both		<b>32-467</b>	3.543 Free Length. Outer. OEM # 575-GC-146
	Both		<b>32-695</b>	3.031 Free Length. Inner. Early Style. OEM # 575-GG-172
Keeper	Both		<b>34-810</b>	w/ 0.293 Wide Groove. OEM # 54-GC-19



# MAZDA

# INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
1490cc D5, E5 Forklift		L4	1
1985cc (2.0L) VA Forklift		L4	2
122 C.I. (2.0L) FE, 2.2L F2 Forklift SOHC		L4	3

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1490cc D5, E5 Forklift</b>			<b>L4 BORE - 77mm/3.031"</b>
Valve Seat Insert	Exh		21-1375-54	1.022T I.D. 1-3/8 O.D. 0.230 Depth
	Int		21-1562-57	1.246T I.D. 1-9/16 O.D. 0.230 Depth
Valve Stem Seal			38-966-55	Viton. Metal Clad.
<b>LINE 2</b>	<b>1985cc (2.0L) VA Forklift</b>			<b>L4 BORE - 82mm/3.23"</b>
Valve	Exh		10-10745	1.177 Head Dia. Special Order Only
	Int		10-10744	1.555 Head Dia. Special Order Only
Valve Seat Insert	Exh		20-1375-3N	1-1/16 I.D. 1-3/8 O.D. 3/16 Depth. w/ 1.203 Valve Head Dia. LPG. Non Magnetic, Nickel Matl.
	Int		20-1625-2	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. +10 O/S Avail.
Guide	Both		30-8171	2.520 OAL
<b>LINE 3</b>	<b>122 C.I. (2.0L) FE, 2.2L F2 Forklift SOHC</b>			<b>L4 BORE - 86mm/3.39"</b>
Valve	Exh		10-10237	1.417 Head Dia. Incl. Turbo
	Int		10-10236	1.732 Head Dia. Incl. Turbo
Valve Seat Insert	Exh		21-1500-54	1.180T I.D. 1-1/2 O.D. 0.307 Depth.
	Int		21-1812-50	1.490T I.D. 1-13/16 O.D. 0.307 Depth.
Guide	Both		30-8172	2.177 OAL. +2 O/S Avail. Incl. Lock Ring
Spring	Both		32-1368	1.720 Free Length. Inner
	Both		32-1370	2.041 Free Length. Outer
Keeper	Both		34-212	0.109 Groove Dia. 1 Groove. Heat Treated
	Both		34-213	0.090 Groove Dia. 1 Groove. Heat Treated
Valve Stem Seal	Both		38-966-55	Viton. Metal Clad.
Expansion Plug Kit	Both		97-0224	Steel Kit. Brass Kit Avail. In Suffix B

# MERCEDES BENZ

# TRUCK

ENGINE	YEAR	CYL.	LINE NO.
1767cc (1.8L) OM636 Mercedes Diesel		L4	1
2687cc (2.7L) DOHC 20V OM612/OM647 Diesel	2002-07	L5	2
2987cc (3.0L) OM642 24V DOHC Diesel Turbo	2006-14	V6	3
4.3L OM904,OM924 12V, 6.3L OM906, OM926 18V Diesel	1995-13	L4,6	4
5657cc (5.7L) Dir. Inj. Diesel OM352		L6	5

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1767cc (1.8L) OM636 Mercedes Diesel</b>		<b>L4</b>	<b>BORE - 75mm/2.95"</b>
Guide	Exh		<b>30-7875</b>	2.223 OAL. OEM # 11-3281
<b>LINE 2</b>	<b>2687cc (2.7L) DOHC 20V OM612/OM647 Diesel</b>		<b>2002-07 L5</b>	<b>BORE - 88mm/3.46"</b>
Valve	Exh	2004-06	<b>10-13074</b>	1.032 Head Dia.
	Exh	2002-03	<b>10-2235</b>	1.120 Head Dia.
	Int	2004-06	<b>10-13073</b>	1.130 Head Dia.
	Int	2002-03	<b>10-2234</b>	1.189 Head Dia.
Valve Seat Insert	Exh	2004-06	<b>22-1088-1</b>	0.890T I.D. 1.088 O.D. 0.221 Depth.
	Int	2004-06	<b>22-1160-1</b>	0.960T I.D. 1.160 O.D. 0.221 Depth
Guide	Both	2002-07	<b>30-3255</b>	1.476 OAL
Keeper	Both	2002-07	<b>34-5026</b>	1 Round Groove
Valve Stem Seal	Both	2002-07	<b>38-5080-55</b>	Viton. Metal Clad.
<b>LINE 3</b>	<b>2987cc (3.0L) OM642 24V DOHC Diesel Turbo</b>		<b>2006-14 V6</b>	<b>BORE - 82mm/3.23"</b>
Keeper	Both	2006-14	<b>34-5021</b>	3 Round Beads. 0.234 Stem
<b>LINE 4</b>	<b>4.3L OM904,OM924 12V, 6.3L OM906, OM926 18V Diesel</b>		<b>1995-13 L4,6</b>	<b>BORE - 102mm/ 4.02"</b>
Valve	Exh	1995-	<b>10-3189</b>	1.496 Head Dia. 1 per Cyl. OEM # 9060500327
	Int	1995-	<b>10-3188</b>	1.339 Head Dia. 0.3127 Stem. 2 per Cyl. OEM # 9060500326
Valve Seat Insert	Exh	1995-	<b>22-1382-2</b>	1.100 I.D. 1.382 O.D. 0.300 Depth. OEM # 9060530131
	Int	1995-	<b>22-1578-1</b>	1.233T I.D. 1.578 O.D. 0.315. OEM # 9060531232
Guide	Both	1995-	<b>30-3276</b>	2.365 OAL. Finished 0.316 ID
	Both	1995-	<b>30-3285</b>	2.363 OAL. Unfinished 0.295 I.D. OEM # 9060530130
Valve Stem Seal	Both	1995-	<b>38-6126-55</b>	Metal Clad. Viton
<b>LINE 5</b>	<b>5657cc (5.7L) Dir. Inj. Diesel OM352</b>		<b>L6</b>	<b>BORE - 97.0mm/3.82"</b>
Guide	Exh		<b>30-3072</b>	OEM # 3660530230
	Int		<b>30-3071</b>	OEM # 3520531229

# MINNEAPOLIS MOLINE, OLIVER

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
66-141 C.I. NXB, IXB/C/B3/B5, IXLB Hercules		L2-4	1
144, 216 C.I.		L4-6	2
165, 206H/L, D206 C.I.		L4	3
231, 265 C.I. Gasoline or LPG		L6	4
231 C.I. (3.8L) Diesel Waukesha		L6	5
283, 336, 403, 425, 605-6A C.I. MIN		L4-6	6
D283-4A Diesel		L4	7
13.1L HD800-6A 12V		L6	8
19.8L 1210-12A		L12	9

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>66-141 C.I. NXB, IXB/C/B3/B5, IXLB Hercules</b>			<b>L2-4 BORE - 3.25"/82.6mm</b>
Valve Seat Insert	Exh		20-1375-4	1-1/8 I.D. 1-3/8 O.D. 3/16 Depth.
	Int		20-1500-1	1-1/4 I.D. 1-1/2 O.D. 7/32 Depth. -N Suffix Nickel Matl. Also Avail.
Guide	Both		30-1568	2.094 OAL. 0.4859 O.D.
	Both		30-1697	2.093 OAL. 0.5328 O.D.
<b>LINE 2</b>	<b>144, 216 C.I.</b>			<b>L4-6 BORE - 3.50"/88.9mm</b>
Valve	Int		10-323	1.313 Head Dia. 66HC, 66KD, 77HC, 77KD
Valve Seat Insert	Exh		20-1187-1	1.000 I.D. 1-3/16 O.D. 3/16 Depth. Kerosene 66KD, 77KD
	Exh		20-1375-4	Gasoline. 1-1/8 I.D. 1-3/8 O.D. 3/16 Depth. Also Avail. Nickel Matl., N Suffix.
	Exh		20-1375-8	1.000 I.D. 1-3/8 O.D. 3/16 Depth. Diesel Exh 88D
Guide	Both		30-1947	2.500 OAL. Gasoline & Kerosene
	Exh		30-1953	Super 55D, 66D, 77D, 770D. 2.313 OAL
	Int		30-1954	Super 55D, 66D, 77D, 770D. 3.188 OAL
Keeper	Both		34-746	2 Groove. Heat Treated
<b>LINE 3</b>	<b>165, 206H/L, D206 C.I.</b>			<b>L4 BORE - 3.625"/92mm</b>
Valve	Exh		10-283	1.468 Head Dia. 206 R & Z Series
	Exh		10-861	1.375 Head Dia. Exc. LPG. 165, 335 Wheel Tractors, 206 Exc. R & Z Series, D206. OEM # 10A6397
Valve Seat Insert	Both		20-1562-6	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth. Non Magnetic, Nickel Matl. Also Avail. -N R & Z Series
	Exh		20-1437-13	1-3/16 I.D. 1-7/16 O.D. 5/32 Depth.
Guide	Both		30-1891	Flanged. 2.310 OAL. OEM # 10A5988
<b>LINE 4</b>	<b>231, 265 C.I. Gasoline or LPG</b>			<b>L6 BORE - 3.50" &amp; 3.75"</b>
Guide	Exh		30-1927	2.625 OAL. OEM # 106620A
	Int		30-1951	2.781 OAL. OEM # 156159A
<b>LINE 5</b>	<b>231 C.I. (3.8L) Diesel Waukesha</b>			<b>L6 BORE - 90mm/3.50"</b>
Guide	Exh		30-1927	2.625 OAL. OEM # 106620A
	Exh		30-1953	2.313 OAL
	Int		30-1954	3.188 OAL
<b>LINE 6</b>	<b>283, 336, 403, 425, 605-6A C.I. MIN</b>			<b>L4-6 BORE - 4.25" &amp; 4.625"</b>
Valve	Exh		10-159	1.594 Head Dia. From S/N 334000
	Exh		10-887	1.513 Head Dia. 1800B Wheel Tractors S/N 124396 To 134683. 1800C S/N 134684-Up. OEM # 155731A Oliver
	Int		10-160	1.718 Head Dia.
Valve Seat Insert	Exh		20-1625-1N	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Non-Magnetic Nickel

# MINNEAPOLIS MOLINE, OLIVER

# HEAVY DUTY

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>283, 336, 403, 425, 605-6A C.I. MIN</b>			<b>L4-6 BORE - 4.25" &amp; 4.625"</b>
Valve Seat Insert	Int		<b>20-1812-5</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth. Also Avail in Nickel Matl, N suffix.
Guide	Both		<b>30-1914</b>	3.125 OAL 0.437 I.D. 0.7515 O.D. OEM # 10A6912
	Both		<b>30-7371</b>	3.000 OAL. Machined For Seal
	Exh		<b>30-7420</b>	3.875 OAL. 0.437 I.D. 0.751 O.D. OEM # 10A29501 Special Order Only
	Int		<b>30-7421</b>	4.375 OAL. 0.437 I.D. 0.751 O.D. OEM # 10A29502. Special Order Only
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring
<b>LINE 7</b>	<b>D283-4A Diesel</b>			<b>L4 BORE - 4.25"/108mm</b>
Guide	Both		<b>30-1965</b>	3.500 OAL. OEM # 164028A
<b>LINE 8</b>	<b>13.1L HD800-6A 12V</b>			<b>L6 BORE - 5.312"/134.925mm</b>
Valve	Int		<b>10-160</b>	1.718 Head Dia. To S/N 27000000
	Int		<b>10-983</b>	2.375 Head Dia. From S/N 27000000
Valve Seat Insert	Exh		<b>20-2187-1S</b>	1-13/16 I.D. 2-3/16 O.D. 1/4 Depth. Stellite
	Int		<b>20-2562-1</b>	2-3/16 I.D. 2-9/16 O.D. 1/4 Depth
Guide	Both		<b>30-7372</b>	3.000 OAL. S/N 27000100 & Up
Keeper	Both		<b>34-222</b>	Single Groove.
	Both		<b>34-803</b>	2 Groove. Heat Treated. For 10-160
<b>LINE 9</b>	<b>19.8L 1210-12A</b>			<b>L12 BORE - 4.625"/117.4mm</b>
Valve	Exh		<b>10-159</b>	1.594 Head Dia.
	Int		<b>10-160</b>	1.718 Head Dia.
Valve Seat Insert	Exh		<b>20-1625-1N</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Non-Magnetic Nickel
	Int		<b>20-1812-5</b>	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		<b>30-1914</b>	3.125 OAL
	Both		<b>30-7371</b>	3.000 OAL. Machined For Seal
Keeper	Both		<b>34-803</b>	2 Groove. Heat Treated
Valve Stem Seal	Both		<b>38-1055-70</b>	Teflon And Rubber. 1 Ring

# MITSUBISHI

# DIESEL & INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
1439cc 4G33, 4G32 Forklift		L4	1
2.0L (122 C.I.) 4G52 12V Forklift		L4	2
2.0L (122 C.I.) 4G63 Forklift		L4	3
2346cc (2.3L) SOHC Diesel 4D55T		L4	4
2.4L (143 C.I.) 4G64 Forklift		L4	5
2.6L (156 C.I.) 4G54 Forklift		L4	6
3.0L (181 C.I.) 6G72 12V Forklift		V6	7
3.3L (203 C.I.) S4S, 5.0L S6S Forklift		L4,6	8

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1439cc 4G33, 4G32 Forklift</b>		<b>L4</b>	<b>BORE - 73mm/2.874"</b>
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Valve	Exh		10-10064	1.376 Head Dia. Square Groove 4G32
	Exh		10-10083	1.220 Head Dia. Square Groove
	Int		10-10076	1.488 Head Dia. Square Groove
Valve Seat Insert	Exh		21-1375-51	1.060T I.D. 1-3/8 O.D. 0.280 Depth
	Int		21-1562-50	1.260T I.D. 1-9/16 O.D. 0.280 Depth
Guide	Exh		30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int		30-7576	1.735 OAL. 0.5145 O.D. +2, +6 O/S Avail.
Spring	Both		32-1123	1.800 Free Length.
Keeper	Both		34-716	1 Round Groove. Heat Treated
	Both		34-813	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-938-45	Viton. Ring and Band.
	Both		38-964-55	Viton. Metal Clad.

<b>LINE 2</b>	<b>2.0L (122 C.I.) 4G52 12V Forklift</b>		<b>L4</b>	<b>BORE -</b>
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Valve	Exh		10-10064	1.376 Head Dia. Square Groove
	Exh		10-10142	1.378 Head Dia.
	Int		10-10065	1.689 Head Dia. Square Groove
	Int		10-10141	1.693 Head Dia.
Valve Seat Insert	Exh		21-1500-62	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Int		21-1750-61	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh		30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Int		30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
Spring	Both		32-1050	1.830 Free Length.
Keeper	Both		34-716	1 Round Groove. Heat Treated
	Both		34-813	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-938-45	Viton. Ring And Band.
	Both		38-964-55	Viton. Metal Clad.
Expansion Plug Kit			97-0216	w/ 28mm Block Plug. Steel Kit. Brass Kit Avail. In Suffix B
			97-32	Steel Kit. Brass Kit Avail. In Suffix B

<b>LINE 3</b>	<b>2.0L (122 C.I.) 4G63 Forklift</b>		<b>L4</b>	<b>BORE - 85mm/3.346"</b>
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Valve	Exh		10-10142	1.378 Head Dia.
	Exh		10-10144	1.496 Head Dia.
	Int		10-10141	1.693 Head Dia.
	Int		10-10143	1.811 Head Dia.
Guide	Exh		30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Int		30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
Spring	Both		32-1050	1.830 Free Length.

# MITSUBISHI

# DIESEL & INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 3</b>	<b>2.0L (122 C.I.) 4G63 Forklift</b>			<b>L4 BORE - 85mm/3.346"</b>
Keeper	Both		34-716	1 Round Groove. Heat Treated
Valve Stem Seal	Both		38-964-55	Viton. Metal Clad.
<b>LINE 4</b>	<b>2346cc (2.3L) SOHC Diesel 4D55T</b>			<b>L4 BORE - 97mm/3.80"</b>
Valve			10-10415	1.575 Head Dia. Round Groove
			10-10416	1.339 Head Dia.
Valve Seat Insert	Int		21-1750-66	1.460T I.D. 1-3/4 O.D. 0.275 Depth
Guide	Exh		30-7851	2.920 OAL
	Int		30-7850	2.800 OAL
Keeper	Both		34-716	1 Round Groove. Heat Treated
Valve Stem Seal			38-964-55	Viton. Metal Clad.
<b>LINE 5</b>	<b>2.4L (143 C.I.) 4G64 Forklift</b>			<b>L4 BORE - 86.5mm/3.40"</b>
Valve	Exh		10-10144	1.496 Head Dia.
	Int		10-10143	1.811 Head Dia.
Guide	Exh		30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Int		30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
Spring	Both		32-1050	1.830 Free Length.
Valve Stem Seal	Both		38-964-55	Viton. Metal Clad.
<b>LINE 6</b>	<b>2.6L (156 C.I.) 4G54 Forklift</b>			<b>L4 BORE - 91mm/3.50"</b>
Valve	Exh		10-10091S	1.495 Head Dia. Square Groove +15 O/S Stem May Be Avail.
	Exh		10-10146S	1.493 Head Dia. Round Groove.
	Int		10-10092	1.810 Head Dia. Square Groove +15 O/S Stem May Be Avail.
	Int		10-10145	1.810 Head Dia. Round Groove.
Valve Seat Insert	Exh		21-1500-62	1.220T I.D. 1-1/2 O.D. 0.310 Depth.
	Exh		21-1625-56	1.298T I.D. 1-5/8 O.D. 0.317 Depth
	Exh		21-1875-51	1.575T I.D. 1-7/8 O.D. 0.317 Depth.
	Int		21-1750-61	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh		30-7575	2.046 OAL. 0.5145 O.D. +2, +6 O/S Avail. Incl. Lock Ring
	Int		30-7574	1.848 OAL. 0.5145 O.D. +2, +6 O/S Avail.
Spring	Both		32-1050	1.830 Free Length.
Keeper	Both		34-716	1 Round Groove. Heat Treated
	Both		34-813	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-964-55	Viton. Metal Clad.
<b>LINE 7</b>	<b>3.0L (181 C.I.) 6G72 12V Forklift</b>			<b>V6 BORE - 91mm/3.50"</b>
Valve	Exh		10-10625	1.378 Head Dia.
	Int		10-10624	1.693 Head Dia.
Valve Seat Insert	Exh		21-1562-69N	1.219 I.D. 1-9/16 O.D. 0.317. Non-Magnetic Nickel
	Int		21-1750-61	1.445T I.D. 1-3/4 O.D. 0.310 Depth.
Guide	Exh		30-7577	1.890 OAL. +2, +6 O/S Avail. Incl. Lock Ring
	Int		30-7576	1.735 OAL. +2 O/S Avail.
Spring	Both		32-1289	1.960 Free Length
Keeper	Both		34-716	1 Round Groove. Heat Treated
Lifter	Both		36-6000	Hydraulic
Valve Stem Seal	Both		38-964-55	Viton. Metal Clad.
Expansion Plug Kit			97-155	Steel Kit. Brass Kit Avail. In Suffix B

**MITSUBISHI****DIESEL & INDUSTRIAL**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
LINE 8			3.3L (203 C.I.) S4S, 5.0L S6S Forklift	L4,6 BORE - 94mm/3.70"
Valve Stem Seal	Both		38-961-55	Viton. Metal Clad.

ENGINE	YEAR	CYL.	LINE NO.
1.1L (69 C.I.) D11, 1.2L (75 C.I.) A12 Forklift		L4	1
1483cc (1.5L) J15 Forklift		L4	2
1.5L (91 C.I.) A15 Forklift		L4	3
1982cc (2.0L) H20, H20-2 Forklift		L4	4
2.1L (126 C.I.) K21, 2.5L (152 C.I.) K25 Forklift		L4	5
2.2L SD22 8V Forklift		L4	6
2.4L (146 C.I.) SOHC Z24 Forklift		L4	7
2.5L (153 C.I.) SD25 Forklift		L4	8
151 C.I. (2.5L) H25 Forklift		L4	9
2974cc H30 Forklift		L6	10
3.3L (199 C.I.) SD33		L6	11
4.2L (254 C.I.) TB42 Forklift		L6	12
4.5L (273 C.I.) TB45 Forklift		L6	13

COMPONENT	I/E/B	YEARS	PART No.	NOTES
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<b>LINE 1</b>	<b>1.1L (69 C.I.) D11, 1.2L (75 C.I.) A12 Forklift</b>			<b>L4</b>	<b>BORE - 75mm/2.953"</b>
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Guide	Exh		30-7542	1.930 OAL.
	Int		30-7545	1.930 OAL.
Keeper	Both		34-815	1 Square Groove. Heat Treated.
Valve Stem Seal	Both		38-961-55	Viton. Metal Clad.

<b>LINE 2</b>	<b>1483cc (1.5L) J15 Forklift</b>			<b>L4</b>	<b>BORE - 78mm/3.07"</b>
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Valve	Exh		10-10749	Old Style Wide Groove. 1.260 Head Dia.
	Exh		10-10751	New Style Narrow Groove. 1.254 Head Dia.
	Int		10-10748	Old Style Wide Groove. 1.492 Head Dia.
	Int		10-10750	New Style Narrow Groove. 1.492 Head Dia.
Valve Seat Insert	Both		20-1625-4	1-5/16 I.D. 1-5/8 O.D. 7/32 Depth
Guide	Exh	1971-89	30-7498	2.200 OAL
	Int	1971-89	30-7495	1.870 OAL

<b>LINE 3</b>	<b>1.5L (91 C.I.) A15 Forklift</b>			<b>L4</b>	<b>BORE - 76mm/2.992"</b>
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Valve	Exh		10-10033S	1.188 Head Dia.
	Int		10-10031	1.462 Head Dia.
Valve Seat Insert	Both		21-1312-52	1.060T I.D. 1-5/16 O.D. 0.240 Depth
Guide	Exh		30-7542	1.930 OAL.
	Int		30-7545	1.930 OAL.
Spring	Both		32-1048	1.831 Free Length.
Keeper	Both		34-815	1 Groove. Heat Treated

<b>LINE 4</b>	<b>1982cc (2.0L) H20, H20-2 Forklift</b>			<b>L4</b>	<b>BORE - 87.2mm/3.433"</b>
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Valve	Exh		10-10753	1.262 Head Dia.
	Exh		10-2244	1.185 Head Dia. 7mm Stem Dia. H20-2
	Int		10-10752	1.657 Head Dia.
	Int		10-2243	1.384 Head Dia. 7mm Stem Dia. H20-2
Valve Seat Insert	Exh		20-1437-6	1-1/8 I.D. 1-7/16 O.D. 5/16 Depth.
	Int		20-1687-1	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth.
Guide	Exh		30-3001	1.990 OAL. 0.439 O.D. 0.277 I.D.
	Exh		30-7498	2.200 OAL
	Int		30-3000	1.660 OAL. 0.439 O.D. 0.2770 I.D.
	Int		30-7495	1.870 OAL. 0.565 O.D. 0.3440 I.D.



# NISSAN

# INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 4</b>	<b>1982cc (2.0L) H20, H20-2 Forklift</b>			<b>L4 BORE - 87.2mm/3.433"</b>
Valve Stem Seal	Both		38-667-45	Viton. Top Hat.
<b>LINE 5</b>	<b>2.1L (126 C.I.) K21, 2.5L (152 C.I.) K25 Forklift</b>			<b>L4 BORE - 3.5"/ 88.9mm</b>
Guide	Both		30-7826	1.770 OAL. Pre Cut For Seal, Plain Port End
Valve Stem Seal	Both		38-985-55	Viton. Metal Clad. 0.276 Stem
<b>LINE 6</b>	<b>2.2L SD22 8V Forklift</b>			<b>L4 BORE - 83mm/3.27"</b>
Guide	Both		30-8209	2.045 OAL
Valve Stem Seal	Both		38-962-45	Viton. Ring And Spring.
<b>LINE 7</b>	<b>2.4L (146 C.I.) SOHC Z24 Forklift</b>			<b>L4 BORE - 89mm/3.50"</b>
Valve	Exh		10-10269	1.500 Head Dia.
	Int		10-10268	1.658 Head Dia.
Valve Seat Insert	Exh		21-1625-60	1-1/4T I.D. 1-5/8 O.D. 0.293 Depth
	Int		21-1812-56	1.535 I.D. 1-13/16 O.D. 0.293 Depth.
Guide	Both		30-7828	2.660 OAL. +2 O/S Avail.
Keeper	Both		34-815	1 Groove. Heat Treated
Valve Stem Seal	Both		38-962-45	Viton. Ring And Spring.
<b>LINE 8</b>	<b>2.5L (153 C.I.) SD25 Forklift</b>			<b>L4 BORE - 89mm/3.50"</b>
Valve	Exh		10-10276S	1.339 Head Dia.
	Int		10-10275	1.575 Head Dia.
Valve Seat Insert	Exh		21-1500-70	1.203 I.D. 1-1/2 O.D. 0.283 Depth
	Int		21-1625-59	1.380 I.D. 1-5/8 O.D. 0.257 Depth
Guide	Both		30-8209	2.045 OAL
Valve Stem Seal	Both		38-962-45	Viton. Ring And Spring.
Expansion Plug Kit	Both		97-35	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 9</b>	<b>151 C.I. (2.5L) H25 Forklift</b>			<b>L4 BORE - 92mm/3.6280"</b>
Valve	Exh		10-2244	1.185 Head Dia.
	Int		10-2243	1.384 Head Dia. 0.2745 Stem
Guide	Exh		30-3001	1.990 OAL. 0.439 O.D. 0.277 I.D.
	Int		30-3000	1.660 OAL. 0.439 O.D. 0.2770 I.D.
Spring	Both		32-813	Inner. 1.760 Free Length
Keeper	Both		34-5007	1 Groove
Valve Stem Seal	Both		38-985-55	Viton. Metal Clad. 0.276 Stem
<b>LINE 10</b>	<b>2974cc H30 Forklift</b>			<b>L6 BORE - 87.2mm/3.433"</b>
Valve	Exh		10-10753	1.262 Head Dia.
	Int		10-10752	1.657 Head Dia.
Valve Seat Insert	Exh		20-1437-6	1-1/8 I.D. 1-7/16 O.D. 5/16 Depth.
	Int		20-1687-1	1-13/32 I.D. 1-11/16 O.D. 1/4 Depth.
Guide	Exh		30-7498	2.200 OAL
	Int		30-7495	1.870 OAL
Valve Stem Seal	Both		38-667-45	Top Hat. Viton
<b>LINE 11</b>	<b>3.3L (199 C.I.) SD33</b>			<b>L6 BORE - 3.27"/83mm</b>
Guide	Both		30-8209	2.045 OAL

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>4.2L (254 C.I.) TB42 Forklift</b>			<b>L6 BORE - 3.78"/ 96mm</b>
Keeper	Both		<b>34-815</b>	1 Groove. Heat Treated
Valve Stem Seal	Both		<b>38-962-45</b>	Viton. Ring And Spring.
<b>LINE 13</b>	<b>4.5L (273 C.I.) TB45 Forklift</b>			<b>L6 BORE - 3.92"/99.5mm</b>
Keeper	Both		<b>34-815</b>	1 Groove. Heat Treated
Valve Stem Seal	Both		<b>38-961-55</b>	Viton. Metal Clad.
	Both		<b>38-962-45</b>	Viton. Ring And Spring.

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ENGINE	YEAR	CYL.	LINE NO.
A4.107, 4.108 Perkins		L4	1
2.2L (135 C.I.) 404C.22/T 8V Diesel 400 Ser.		L4	2
3.152, D3.152, 3A152, 3AD152 Diesel		L3	3
2.6L (159 C.I.) UB; 2.9L (183 C.I.) UA,UC 700 Ser.		L4	4
3.3L (201 C.I.) 1100 Ser 1103, 1104 T & NA .		L3	5
4A203, 4AD203 Diesel Perkins		L4	6
4.212 Diesel, A4.236 Diesel, G4.236 Gas		L4	7
1000 Series, 1004.40/T, 4.401, Turbo or N.A. 8V		L4	8
4.248 Diesel Perkins		L4	9
6.305 Diesel 12V		L6	10
318 C.I. (5.2L) 4.318, A4.318 Diesel		L4	11
6.354.1-4, T6.354.1-4, A/AT/ATC6.354 Diesel		L6	12
1006.60/T Diesel Turbo or N.A. 6.601 1106-E60TA 12V		L6	13
372 C.I. (6.1L) 6.372		L6	14
540 C.I. (8.8L) Diesel		V8	15

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>A4.107, 4.108 Perkins</b>			<b>L4 BORE - 3.125"/79.411</b>
Valve Seat Insert	Exh		20-1312-4	1.000 I.D. 1-5/16 1.317 Oversize O.D. 1/4 Depth. Machine to Correct Depth
	Int		20-1562-7	1-1/4 I.D. 1-9/16 1.567 Oversize O.D. 1/4 Depth. Machine to Correct Depth
Guide	Exh		30-1956	2.438 OAL. OEM # 33261723
	Int		30-8013	2.250 OAL. OEM # 3313E001, 33261741
Keeper	Both		34-225	1 Groove. Heat Treated. OEM # 0230001
<b>LINE 2</b>	<b>2.2L (135 C.I.) 404C.22/T 8V Diesel 400 Ser.</b>			<b>L4 BORE - 3.31" / 84mm</b>
Valve	Exh		10-13327	1.299 Head Dia. Late. OEM # 120176380
	Int		10-13326	1.457 Head Dia. Late. OEM # 120166380
<b>LINE 3</b>	<b>3.152, D3.152, 3A152, 3AD152 Diesel</b>			<b>L3 BORE - 3.60"/91.44mm</b>
Valve	Exh		10-873	1.315 Head Dia. 45 Deg. Magnetic. OEM # 31431271, 31431591
	Int		10-874	1.534 Head Dia. 45 Deg. OEM # 31431261, 31431281
Valve Seat Insert	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		22-1681-1N	1-13/64 I.D. 1.681 O.D. 5/16 Depth, OEM Replacement For Heads w/ Factory Installed Seats
	Int		22-1880-1	1-13/32 I.D. 1.880 O.D. 7/32 Depth. OEM Replacement For Heads w/ Factory Installed Seats
Guide	Both		30-1956	2.438 OAL. OEM # 33261723
Spring	Both		32-1068	1.782 Free Length. Outer. OEM # 0780006
	Both		32-1069	1.375 Free Length. Inner. OEM # 780007
Keeper	Both		34-225	1 Groove. Heat Treated. OEM # 0230001
Lifter	Both		36-0012	Mechanical. OEM # 0860012
Valve Stem Seal	Both		38-1046-75	All Teflon.
	Both		38-1072-75	All Teflon.
<b>LINE 4</b>	<b>2.6L (159 C.I.) UB; 2.9L (183 C.I.) UA,UC 700 Ser.</b>			<b>L4 BORE - 91mm/3.58"</b>
Guide	Both		30-3105	1.790 OAL. 0.474 O.D. 0.275 I.D. OEM # 3318A702
Keeper	Both		34-06513	3 Round Grooves

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>3.3L (201 C.I.) 1100 Ser 1103, 1104 T &amp; NA .</b>			<b>L3 BORE - 4.13"/105mm</b>
Valve	Exh		<b>10-13138</b>	1.634 Head Dia. OEM # 3142A151
	Int		<b>10-13137</b>	1.823 Head Dia. OEM # 3142H071
Guide	Both		<b>30-3059</b>	2.018 OAL. 0.3555 I.D. 0.5135 O.D. OEM # 3313A0123
Keeper	Both		<b>34-2004</b>	1 Round Bead. OEM # 3142W004.
Lifter	Both		<b>36-7014</b>	Mechanical. OEM # 31434163
<b>LINE 6</b>	<b>4A203, 4AD203 Diesel Perkins</b>			<b>L4 BORE - 3.60"/91.44mm</b>
Valve	Exh		<b>10-873</b>	1.315 Head Dia. Magnetic. OEM # 31431271
	Int		<b>10-874</b>	1.534 Head Dia. OEM # 31431261
Valve Seat Insert	Exh		<b>20-1437-3N</b>	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Int		<b>20-1625-1</b>	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		<b>22-1681-1N</b>	1-13/64 I.D. 1.681 O.D. 5/16 Depth, OEM Replacement For Heads w/ Factory Installed Seats
	Int		<b>22-1880-1</b>	1-13/32 I.D. 1.880 O.D. 7/32 Depth. OEM Replacement For Heads w/ Factory Installed Seats
Guide	Both		<b>30-1956</b>	2.438 OAL. OEM # 33261723
Spring	Both		<b>32-1068</b>	1.782 Free Length. Outer. OEM # 780006
	Both		<b>32-1069</b>	1.375 Free Length. Inner. OEM # 780007
Keeper	Both		<b>34-225</b>	1 Groove. Heat Treated. OEM # 0230001
Lifter	Both		<b>36-0012</b>	Mechanical. OEM # 0860012
Valve Stem Seal	Both		<b>38-1046-75</b>	All Teflon.
	Both		<b>38-1072-75</b>	All Telfon.
<b>LINE 7</b>	<b>4.212 Diesel, A4.236 Diesel, G4.236 Gas</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve	Exh		<b>10-1784</b>	1.472 Head Dia. OEM # 3142A051
	Exh		<b>10-1798</b>	1.471 Head Dia. w/ Gas. OEM # 31431701
	Exh		<b>10-882</b>	1.440 Head Dia. OEM # 31431109. +15 O/S Stem May Be Avail.
	Int		<b>10-883</b>	1.744 Head Dia. OEM# 31431641. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		<b>20-1562-6N</b>	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats. Non Magnetic, Nickel Matl.
	Int		<b>20-1875-19</b>	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		<b>22-1681-3</b>	1-1/4 I.D. 1.681 O.D. 3/8 Depth. For Heads w/ Factory Installed Seats. OEM # 33152139
	Exh		<b>22-1690-1</b>	1-1/4 I.D. 1.690 O.D. 3/8 Depth. OEM Replacement For Heads w/ Factory Installed Seats
	Int		<b>22-2018-1</b>	1-19/32 I.D. 2.018 O.D. 9/32 Depth. OEM Replacement For Heads w/ Factory Installed Seats
Guide	Exh		<b>30-1977</b>	2.406 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343J002
	Int		<b>30-1976</b>	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
Spring	Both		<b>32-793</b>	1.959 Free Length. Inner From S/N 236UA-19817
	Both		<b>32-794</b>	2.590 Free Length. Single Spring To S/N 236UA-19816. Outer From S/N 236UA-19817
Keeper	Both		<b>34-217P</b>	1 Round Groove. Heat Treated. OEM # 33173108
Lifter	Both		<b>36-7014</b>	Mechanical. OEM # 31434163
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber. Machine Guide To 0.562 O.D.
	Both		<b>38-7117-45</b>	Viton. Umbrella. OEM # 33817117

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 8</b>	<b>1000 Series, 1004.40/T, 4.401, Turbo or N.A. 8V</b>			<b>L4 BORE - 3.937"/100mm</b>
Valve	Exh		10-1784	1.472 Head Dia. OEM # 3142A051
	Exh		10-5002S	1.620 Head Dia. Stellite. OEM # 3142D031. 4.401 Eng. 45 Degree
	Exh		10-5004	1.654 Head Dia. OEM # 3142D061. Sleeveless Eng. 4.421, N4.421
	Int		10-5000	1.772 Head Dia. OEM # 3142L072. From ESN U608301W
	Int		10-5001	1.693 Head Dia. OEM # 3142D041. 4.401 Eng. 45 Degree
	Int		10-5003	1.772 Head Dia. OEM # 3142H041. Sleeveless Eng. 4.421
Guide	Exh		30-1977	2.406 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343J002
	Exh		30-3060	2.018 OAL 0.3547 I.D. 0.5527 O.D. OEM # 3318A705
	Int		30-1976	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
	Int		30-3059	2.018 OAL. 0.3555 I.D. 0.5135 O.D. OEM # 3313A012
Spring	Both		32-04043	Inner. 1.630 Free Length. OEM # 31744133
	Both		32-04044	Outer. 1.808 Free Length. OEM # 31745122
Keeper	Both		34-2004	Use w/ 10-5001, 10-5002S. OEM # 3142W004.
	Both		34-217P	1 Round Groove. Heat Treated. OEM # 33173108
Lifter	Both		36-7014	Mechanical. OEM # 31434163
Valve Stem Seal	Both		38-7117-45	Viton. Umbrella. OEM # 33817117
<b>LINE 9</b>	<b>4.248 Diesel Perkins</b>			<b>L4 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1784	1.472 Head Dia. OEM # 3142A051
	Exh		10-882	1.440 Head Dia. OEM# 31431881, 31431109. +15 O/S Stem May Be Avail.
	Int		10-883	1.744 Head Dia. OEM# 31431641. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1562-6N	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats. Non Magnetic, Nickel Matl.
	Int		20-1875-19	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		22-1681-3	1-1/4 I.D. 1.681 O.D. 3/8 Depth. For Heads w/ Factory Installed Seats. OEM # 33152139
	Exh		22-1690-1	1-1/4 I.D. 1.690 O.D. 3/8 Depth. OEM Replacement For Heads w/ Factory Installed Seats
	Int		22-2018-1	1-19/32 I.D. 2.018 O.D. 9/32 Depth. OEM Replacement For Heads w/ Factory Installed Seats
	Guide	Exh		30-1977
Int			30-1976	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
Spring	Both		32-794	2.590 Free Length. OEM # 2236132
Keeper	Both		34-217P	1 Round Groove. Heat Treated. OEM # 33173108
Lifter	Both		36-7014	Mechanical. OEM # 31434163
Valve Stem Seal	Both		38-1068-70	Teflon And Rubber. 0.372 Stem Dia.
<b>LINE 10</b>	<b>6.305 Diesel 12V</b>			<b>L6 BORE - 3.60"/91.44mm</b>
Valve	Exh		10-873	1.315 Head Dia. Magnetic. OEM # 31431271
	Int		10-874	1.534 Head Dia. OEM # 31431261
Valve Seat Insert	Exh		20-1437-3N	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Int		20-1625-1	1-3/8 I.D. 1-5/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		22-1681-1N	1-13/64 I.D. 1.681 O.D. 5/16 Depth, OEM Replacement For Heads w/ Factory Installed Seats
	Int		22-1880-1	1-13/32 I.D. 1.880 O.D. 7/32 Depth. OEM Replacement For Heads w/ Factory Installed Seats

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 10</b>	<b>6.305 Diesel 12V</b>			<b>L6 BORE - 3.60"/91.44mm</b>
Guide	Both		30-1956	2.438 OAL. OEM # 33261723
Spring	Both		32-1068	Outer. OEM # 780006. 1.782 Free Length
	Both		32-1069	Inner. OEM # 780007. 1.375 Free Length
Keeper	Both		34-225	1 Groove. Heat Treated. OEM # 0230001
Valve Stem Seal	Both		38-1046-75	All Teflon.
	Both		38-1072-75	All Teflon.
<b>LINE 11</b>	<b>318 C.I. (5.2L) 4.318, A4.318 Diesel</b>			<b>L4 BORE - 4.50"/114.3mm</b>
Valve	Exh		10-2166	1.594 Head Dia. OEM# 31431671
	Int		10-2167	1.845 Head Dia. OEM# 31431154
Guide	Both		30-7450	2.650 OAL. OEM # 33432532.
Spring	Both		32-793	1.959 Free Length. Inner. OEM # 31744131
	Both		32-794	2.590 Free Length. Outer. OEM # 2236132
Keeper	Both		34-217P	1 Round Groove. Heat Treated. OEM # 33173108
<b>LINE 12</b>	<b>6.354.1-4, T6.354.1-4, A/AT/ATC6.354 Diesel</b>			<b>L6 BORE - 3.875"/98.4mm</b>
Valve	Exh		10-1784	1.472 Head Dia. OEM # 3142A051
	Exh		10-882	All Exc. Phase IV. 1.440 Head Dia. OEM # 31431881, 31431109. +15 O/S Stem May Be Avail.
	Int		10-1783	1.740 Head Dia. OEM # 31431315
	Int		10-883	All Exc. Phase IV. 1.744 Head Dia. OEM # 31431641. +15 O/S Stem May Be Avail.
Valve Seat Insert	Exh		20-1562-6N	1-1/4 I.D. 1-9/16 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats. Non Magnetic, Nickel Matl.
	Int		20-1875-19	1-9/16 I.D. 1-7/8 O.D. 7/32 Depth. Universal Size Insert For Heads w/o Factory Installed Seats
	Exh		22-1681-3	1-1/4 I.D. 1.681 O.D. 3/8 Depth. For Heads w/ Factory Installed Seats. OEM # 33152139
	Exh		22-1690-1	1-1/4 I.D. 1.690 O.D. 3/8 Depth. OEM Replacement For Heads w/ Factory Installed Seats
	Int		22-2018-1	1-19/32 I.D. 2.018 O.D. 9/32 Depth. OEM Replacement For Heads w/ Factory Installed Seats
Guide	Exh		30-1977	2.406 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343J002
	Int		30-1976	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
Spring	Both		32-793	1.959 Free Length. Inner. OEM # 2236131
	Both		32-794	2.590 Free Length. Outer. OEM # 2236132
Keeper	Both		34-217P	1 Round Groove. Heat Treated. OEM # 33173108
Lifter	Both		36-7014	Mechanical. OEM # 31434163
Valve Stem Seal	Both		38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
<b>LINE 13</b>	<b>1006.60/T Diesel Turbo or N.A. 6.601 1106-E60TA 12V</b>			<b>L6 BORE - 3.937"/100mm</b>
Valve	Exh		10-1784	1.472 Head Dia. OEM # 3142A051. 1006.60
	Exh		10-5002S	1.620 Head Dia. Stellite. OEM # 3142D031
	Int		10-5000	1.772 Head Dia. OEM # 3142L072. From ESN 557977X
	Int		10-5001	1.693 Head Dia. OEM # 3142D041
Guide	Exh		30-1977	2.406 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343J002
	Exh		30-3060	2.018 OAL 0.3547 I.D. 0.5527 O.D. OEM # 3318A705
	Int		30-1976	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
	Int		30-3059	2.018 OAL. 0.3555 I.D. 0.5135 O.D. OEM # 3313A012

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COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 13</b>	<b>1006.60/T Diesel Turbo or N.A. 6.601 1106-E60TA 12V</b>			<b>L6 BORE - 3.93"/100mm</b>
Spring	Both		<b>32-04043</b>	Inner. 1.630 Free Length. OEM # 31744133
	Both		<b>32-04044</b>	Outer. 1.808 Free Length. OEM # 31745122
Keeper	Both		<b>34-2004</b>	OEM # 3142W004. Use w/ 10-5001, 10-5002S
	Both		<b>34-217P</b>	1 Round Groove. Heat Treated. OEM # 33173108
Lifter	Both		<b>36-7014</b>	Mechanical. OEM # 31434163
Valve Stem Seal	Both		<b>38-7117-45</b>	Viton. Umbrella. OEM # 33817117
<b>LINE 14</b>	<b>372 C.I. (6.1L) 6.372</b>			<b>L6 BORE - 3.98"/101mm</b>
Valve	Exh		<b>10-882</b>	1.440 Head Dia. OEM # 31431109
	Int		<b>10-883</b>	1.744 Head Dia. OEM # 31431641
Guide	Exh		<b>30-1977</b>	2.406 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343J002
	Int		<b>30-1976</b>	2.281 OAL. 0.3755 I.D. 0.6265 O.D. OEM # 3343F002
Spring	Both		<b>32-793</b>	2.590 Free Length. Outer. OEM # 8662077
	Both		<b>32-794</b>	1.959 Free Length. Inner. OEM # 31744131
Keeper	Both		<b>34-217P</b>	1 Round Groove. Heat Treated. OEM # 33173108
Lifter	Both		<b>36-7014</b>	Mechanical. OEM # 31434163
Valve Stem Seal	Both		<b>38-7117-45</b>	Viton. Umbrella. OEM # 33817117
<b>LINE 15</b>	<b>540 C.I. (8.8L) Diesel</b>			<b>V8 BORE - 4.25"/108mm</b>
Guide	Both		<b>30-3203</b>	2.600 OAL

# TOYOTA

# INDUSTRIAL

ENGINE	YEAR	CYL.	LINE NO.
1345cc (1.3L) 3P Industrial		L4	1
1490cc 2R Forklift		L4	2
1493cc (1.5L) 4P Forklift		L4	3
1994cc (2.0L) 5R Forklift		L4	4
130 C.I. (2.0L) 5K Forklift		L4	5
2237cc (2.2L) 4Y Forklift		L4	6
2481cc (2.5L) 2J Industrial Diesel		L4	7
2771cc (2.8L) 5P Forklift		L4	8
3576cc (3.6L) H Industrial 12V		L6	9
3878 (3.9L) 1F Industrial 12V		L6	10
3980cc (4.0L) 2H Industrial Diesel 12V		L6	11
4230cc (4.2L) 2F Industrial		L6	12

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1345cc (1.3L) 3P Industrial</b>			<b>L4 BORE - 76.6mm/3.02"</b>
Guide	Both		30-8170	2.010 OAL OEM # 1112231020
Keeper	Both		34-811	1 Square Groove. Heat Treated
<b>LINE 2</b>	<b>1490cc 2R Forklift</b>			<b>L4 BORE - 78mm/3.071"</b>
Guide	Both		30-8170	2.010 OAL OEM # 1112231020
Keeper	Both		34-811	1 Square Groove. Heat Treated
<b>LINE 3</b>	<b>1493cc (1.5L) 4P Forklift</b>			<b>L4 BORE - 76.6mm/3.016"</b>
Valve	Exh		10-10759	2 Groove. 1.165 Head Dia.
	Exh		10-10761	1 Groove. 1.179 Head Dia.
	Int		10-10758	2 Groove. 1.493 Head Dia.
	Int		10-10760	1 Groove. 1.496 Head Dia.
Valve Seat Insert	Both		20-1625-4	1-5/16 I.D. 1-5/8 O.D. 7/32 Depth
Guide	Both		30-8170	2.010 OAL OEM # 1112231020
Keeper	Both		34-811	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-971-45	Viton. Umbrella.
<b>LINE 4</b>	<b>1994cc (2.0L) 5R Forklift</b>			<b>L4 BORE - 88mm/3.40"</b>
Valve	Exh		10-10755	Late w/ 2 Groove. 1.457 Head Dia.
	Exh		10-10757	Late w/ 1 Groove. 1.453 Head Dia.
	Int		10-10754	Late w/ 2 Groove. 1.691 Head Dia.
	Int		10-10756	Late w/ 1 Groove. 1.689 Head Dia.
Valve Seat Insert	Exh		20-1562-7	1-1/4 I.D. 1-9/16 O.D. 1/4 Depth
	Int		20-1812-5	1-1/2 I.D. 1-13/16 O.D. 1/4 Depth
Guide	Both		30-7538	Early. 2.415 OAL
	Both		30-8169	Late. 1.970 OAL
Keeper	Both		34-811	1 Square Groove. Heat Treated
<b>LINE 5</b>	<b>130 C.I. (2.0L) 5K Forklift</b>			<b>L4 BORE - 80.5mm/3.1698"</b>
Valve	Exh		10-10308	1.142 Head Dia.
	Int		10-10307	1.417 Head Dia.
Valve Seat Insert	Exh		21-1250-50	0.965T I.D. 1-1/4 O.D. 1/4 Depth.
	Int		21-1500-56	1.275T I.D. 1-1/2 O.D. 0.250 Depth
Guide	Both		30-8170	2.010 OAL OEM # 1112231020
Keeper	Both		34-811	1 Square Groove. Heat Treated



# TOYOTA

# INDUSTRIAL

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>130 C.I. (2.0L) 5K Forklift</b>			<b>L4 BORE - 80.5mm/3.1698"</b>
Valve Stem Seal	Both		38-967-55	Viton. Metal Clad.
<b>LINE 6</b>	<b>2237cc (2.2L) 4Y Forklift</b>			<b>L4 BORE - 81mm/3.189"</b>
Valve	Exh		10-10323	1.417 Head Dia. 0.314 Stem
	Int		10-10322	1.575 Head Dia. 0.314 Stem
Valve Seat Insert	Exh		21-1500-58	1.200T I.D. 1-1/2 O.D. 0.315 Depth.
	Int		21-1687-55	1.340 I.D. 1-11/16 O.D. 0.315 Depth
Guide	Exh		30-8202	2.045 OAL. Incl. Lock Ring
	Int		30-8201	1.970 OAL. Incl. Lock Ring
Spring	Both		32-1313	1.846 Free Length
Keeper	Both		34-5005	0.314 Stem. Round Bead in Middle.
Lifter	Both		36-6005	Hydraulic.
Valve Stem Seal	Both		38-967-55	Viton. Metal Clad.
Expansion Plug Kit			97-132	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 7</b>	<b>2481cc (2.5L) 2J Industrial Diesel</b>			<b>L4 BORE - 88mm/3.40"</b>
Guide	Both		30-8168	2.200 OAL
<b>LINE 8</b>	<b>2771cc (2.8L) 5P Forklift</b>			<b>L4 BORE - 93mm/3.66"</b>
Valve Seat Insert	Exh		20-1562-7	1-1/4 I.D. 1-9/16 O.D. 1/4 Depth
	Int		20-1750-9	1-3/8 I.D. 1-3/4 O.D. 5/16 Depth
Guide	Both		30-8168	
<b>LINE 9</b>	<b>3576cc (3.6L) H Industrial 12V</b>			<b>L6 BORE - 88mm/3.40"</b>
Guide	Both		30-8168	2.200 OAL
Valve Stem Seal	Both		38-450-25	Polyacrylic. Umbrella. 38-450-15 Nitrile Matl., -45 Viton Matl. Also Avail.
<b>LINE 10</b>	<b>3878 (3.9L) 1F Industrial 12V</b>			<b>L6 BORE - 90mm/3.50"</b>
Valve	Exh		10-10069	1.478 Head Dia. 3 Groove
	Exh		10-10342S	1.476 Head Dia. 0.313 Stem 1 Groove
	Int		10-10070	1.811 Head Dia. 0.314 Stem. 3 Groove
Valve Seat Insert	Exh		21-1625-58	1.280T I.D. 1-5/8 O.D. 0.315 Depth.
	Int		21-1937-51	1.540T I.D. 1-15/16 O.D. 0.315 Depth.
Guide	Exh		30-7529	2.322 OAL.
	Int		30-7532	2.130 OAL
Spring	Both		32-1096	2.000 Free Length
Keeper	Both		34-208	3 Groove. Heat Treated
	Exh		34-811	1 Square Groove. Heat Treated
Valve Stem Seal	Both		38-971-45	Viton. Umbrella.
Expansion Plug Kit	Both		97-70	Steel Kit. Brass Kit Avail. In Suffix B
<b>LINE 11</b>	<b>3980cc (4.0L) 2H Industrial Diesel 12V</b>			<b>L6 BORE - 91mm/3.50"</b>
Guide	Both		30-8168	2.200 OAL
<b>LINE 12</b>	<b>4230cc (4.2L) 2F Industrial</b>			<b>L6 BORE - 94mm/3.70"</b>
Valve	Exh		10-10069	1.478 Head Dia.
	Int		10-10070	1.811 Head Dia. 0.314 Stem. 3 Groove
Valve Seat Insert	Exh		21-1625-58	1.280T I.D. 1-5/8 O.D. 0.315 Depth.
	Int		21-1937-51	1.540T I.D. 1-15/16 O.D. 0.315 Depth.

**TOYOTA****INDUSTRIAL**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 12</b>	<b>4230cc (4.2L) 2F Industrial</b>		<b>L6</b>	<b>BORE - 94mm/3.70"</b>
<b>Guide</b>	Exh		<b>30-7527</b>	2.360 OAL
	Int		<b>30-7528</b>	2.765 OAL
<b>Spring</b>	Both		<b>32-1096</b>	2.000 Free Length
<b>Keeper</b>	Both		<b>34-208</b>	3 Groove. Heat Treated
<b>Valve Stem Seal</b>	Both		<b>38-971-45</b>	Viton. Umbrella.
<b>Expansion Plug Kit</b>			<b>97-69</b>	Steel Kit. Brass Kit Avail. In Suffix B

ENGINE	YEAR	CYL.	LINE NO.
10.8L D11 24V Diesel 385-405 HP		L6	1
12.1L (740 C.I.) SOHC 24V Diesel VE D12		L6	2
12.8L D13 SOHC 24V Turbo Diesel		L6	3
16.1L (984 C.I.) 24V SOHC D16 Diesel		L6	4

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>10.8L D11 24V Diesel 385-405 HP</b>			<b>L6 BORE - 4.84"/123mm</b>
Guide	Both		30-3157	3.285 OAL. OEM # 20904074
Spring	Both		32-5013	2.765 Free Length. Inner. OEM # 3183211
	Both		32-5014	3.035 Free Length. Outer. OEM # 3183210
Injector Component	Both		87-6487	Injector O-Ring, Viton. OEM # 20536487
<b>LINE 2</b>	<b>12.1L (740 C.I.) SOHC 24V Diesel VE D12</b>			<b>L6 BORE - 5.16"/131mm</b>
Valve	Exh		10-13301S	1.575 Head Dia. Inconel. Stellite. OEM # 20441945, 20441486
	Exh		10-3197	1.409 Head Dia. OEM # 20833936
	Int		10-13300S	1.575 Head Dia. Inconel. Stellite. OEM # 20463800
	Int		10-3196	1.504 Head Dia. OEM # 20833932
Guide	Both		30-3157	3.285 OAL. OEM # 20904074
	Both		30-3278	OEM # 20789674
Spring	Both		32-5013	2.765 Free Length. Inner. OEM # 3183211
	Both		32-5014	3.035 Free Length. Outer. OEM # 3183210, 21310068
Injector Component	Both		87-6487	Injector O-Ring, Viton. OEM # 20536487
	Both		87-8621	Injector Tube, Copper. OEM # 21351717
<b>LINE 3</b>	<b>12.8L D13 SOHC 24V Turbo Diesel</b>			<b>L6 BORE - 5.16" / 131mm</b>
Valve	Exh		10-3227	1.575 Head Dia. OEM # 20768519
	Int		10-3226	1.654 Head Dia. OEM # 20740798
Guide	Both		30-3157	
Spring	Both		32-5014	3.035 Free Length. Single Int. Outer Exh. OEM # 3183210
	Exh		32-5013	2.765 Free Length. Inner. OEM # 3183211
Injector Component	Both		87-6487	Injector O-Ring, Viton. OEM # 20536487
<b>LINE 4</b>	<b>16.1L (984 C.I.) 24V SOHC D16 Diesel</b>			<b>L6 BORE - 5.16"/131mm</b>
Injector Component	Both		87-6487	Injector O-Ring, Viton. OEM # 20536487
	Both		87-8621	Injector Tube, Copper. OEM # 21351717

# WAUKESHA

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
1.9L (113 C.I.), 2.2L (133 C.I.) F Ser.		L4	1
2.4L (144 C.I.) 180GKB, 180GLB		L4	2
2.5L (155 C.I.) VRG155		L4	3
3.5L (216 C.I.) 185GL, GLB, GS, KL, 190GS		L6	4
4.6L (283 C.I.) VRD283; 5.1L (310 C.I.) VRD/G310		V8	5
9.1L (554 C.I.) 140GZB 12V		L6	6
13.4L (818 C.I.) F817G 12V		L6	7
13.4L (818 C.I.) 145GZB 12V		L6	8
19.6L (1196 C.I.) 6WAKB/C & F1197G 12V		L6	9
1905 C.I. (31.2L) F1905D/N/S/G/GR/GS Natl, Gas		L6	10
47.4L (2895 C.I.) F2895D, L7042G, P9390G		L6,V12,	11

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>1.9L (113 C.I.), 2.2L (133 C.I.) F Ser.</b>		<b>L4</b>	<b>BORE - 3", 3.25"</b>
Guide	Both		30-1458	2.500 OAL. 0.5018 O.D. OEM # 68009S
Keeper	Both		34-123	2 Groove. OEM # B9792
<b>LINE 2</b>	<b>2.4L (144 C.I.) 180GKB, 180GLB</b>		<b>L4</b>	<b>BORE - 3.60"/92.075mm</b>
Valve	Int		10-323	1.313 Head Dia. OEM # 936022
	Int		10-912	1.455 Head Dia. OEM # 180336A
Valve Seat Insert	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. +3, +30 O/S
	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
Guide	Exh		30-1953	2.313 OAL. OEM # 181109-K
	Int		30-1947	2.500 OAL. OEM # 106608-A
Spring	Both		32-500	2.813 Free Length
Keeper	Both		34-746	2 Groove. Heat Treated. OEM # B6466-A
<b>LINE 3</b>	<b>2.5L (155 C.I.) VRG155</b>		<b>L4</b>	<b>BORE - 3.63"/92.075mm</b>
Valve	Int		10-912	1.455 Head Dia. OEM # 180336A
Valve Seat Insert	Exh		20-1500-3	1-1/4 I.D. 1-1/2 O.D. 1/4 Depth. +3, +30 O/S
	Int		20-1562-1	1-5/16 I.D. 1-9/16 O.D. 7/32 Depth. +5,10, 15, 30 O/S Avail.
Guide	Exh		30-1953	2.313 OAL. OEM # 106609-A
	Int		30-1952	2.406 OAL. w/ Old Style Seal. OEM # 222209
	Int		30-7398	2.406 OAL. w/ New Style Seal. OEM # 224609-C
Keeper	Both		34-746	2 Groove. Heat Treated. OEM # B-367-R
Valve Stem Seal	Both		38-1068-70	Teflon And Rubber.
<b>LINE 4</b>	<b>3.5L (216 C.I.) 185GL, GLB, GS, KL, 190GS</b>		<b>L6</b>	<b>BORE - 3.50"</b>
Valve	Int		10-323	1.313 Head Dia.
Valve Seat Insert	Int		20-1437-3	1-3/16 I.D. 1-7/16 O.D. 7/32 Depth.
Guide	Both		30-1947	2.500 OAL. OEM # 106608A
	Both		30-1952	2.406 OAL. OEM # 222209
	Exh		30-1953	2.313 OAL. OEM # 181109K, 106609A
	Int		30-1954	3.188 OAL. OEM # 180009D
Keeper	Both		34-746	2 Round Grooves. Heat Treated. OEM # 2A4429
<b>LINE 5</b>	<b>4.6L (283 C.I.) VRD283; 5.1L (310 C.I.) VRD/G310</b>		<b>V8</b>	<b>BORE - 3.875"/98.4mm</b>
Guide	Exh		30-1927	2.625 OAL. OEM # 106620A
	Int		30-1965	3.500 OAL. OEM #s 164904A, 223009A
Keeper	Both		34-613	1 Groove. Heat Treated.

**WAUKESHA****HEAVY DUTY**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 5</b>	<b>4.6L (283 C.I.) VRD283; 5.1L (310 C.I.) VRD/G310</b>			<b>V8 BORE - 3.875"/98.4mm</b>
Valve Stem Seal	Both		<b>38-1068-70</b>	Teflon And Rubber.
<b>LINE 6</b>	<b>9.1L (554 C.I.) 140GZB 12V</b>			<b>L6 BORE - 4.50"/114.2mm</b>
Valve Seat Insert	Exh		<b>20-1750-0</b>	1-3/8 I.D. 1-3/4 O.D. 3/8 Depth
	Int		<b>20-2187-4</b>	1-7/8 I.D. 2-3/16 O.D. 9/32 Depth
<b>LINE 7</b>	<b>13.4L (818 C.I.) F817G 12V</b>			<b>L6 BORE - 5.375"/136.42mm</b>
Guide	Exh		<b>30-1592</b>	4.313 OAL. OEM # 145109T.
	Int		<b>30-7490</b>	4.281 OAL. OEM # 145109E
<b>LINE 8</b>	<b>13.4L (818 C.I.) 145GZB 12V</b>			<b>L6 BORE - 5.375"/136.4mm</b>
Guide	Exh		<b>30-1592</b>	4.313 OAL. Also 4-3/4 Bore. OEM # 145109T
	Int		<b>30-1593</b>	5.3438 OAL. Also 4-3/4 Bore. OEM # 145009
<b>LINE 9</b>	<b>19.6L (1196 C.I.) 6WAKB/C &amp; F1197G 12V</b>			<b>L6 BORE - 6.25"/158.75mm</b>
Guide	Both		<b>30-7476</b>	4.325 OAL. New, Machined For Seal, Also 5-3/4" Bore. OEM # 125009J; Non Flanged
	Exh		<b>30-7886</b>	Flanged. 4.500 OAL. OEM # 123109
<b>LINE 10</b>	<b>1905 C.I. (31.2L) F1905D/N/S/G/GR/GS Natl, Gas</b>			<b>L6 BORE - 7.00"/177.8mm</b>
Guide	Exh		<b>30-6201</b>	5.188 OAL. Late Type Non-Flanged. Special Order Only
	Int		<b>30-6202</b>	6.000 OAL. Late Type Non-Flanged. Special Order Only
<b>LINE 11</b>	<b>47.4L (2895 C.I.) F2895D, L7042G, P9390G</b>			<b>L6,V1 BORE - 8.50"/215.9mm</b>
Guide	Exh		<b>30-7892</b>	Late Type, Cut For Seal. Ream Guide In Place. OEM # 204109-C
	Int		<b>30-8011</b>	Late Type, Cut For Seal. Ream Guide In Place. OEM # 204109-E

# WISCONSIN

# HEAVY DUTY

ENGINE	YEAR	CYL.	LINE NO.
0.2L (15 C.I.) ACN, 0.3L (18 C.I.) AK/M/N/S		L1	1
0.3L (19 C.I.) AD, ADH		L1	2
0.4L (23 C.I.) AE, AEH, AEM, AEN		L1	3
39,154 C.I. AG/H/HD/M/N/ND, VG/4D, VM4/D, VP4/D		L1,4	4
46, 92 C.I. TE, TED, VE4, VE41, VE4D WIS		L2,4	5
54 C.I. TF, TFD, TH, THD, TJD WIS		L2	6
108 C.I. VF4, VF4D, VH4, VH4D, VH4DM		L4	7
2.5L (154 C.I.) V460D, 461D		L4	8
2.9L (177 C.I.) V465		L4	9

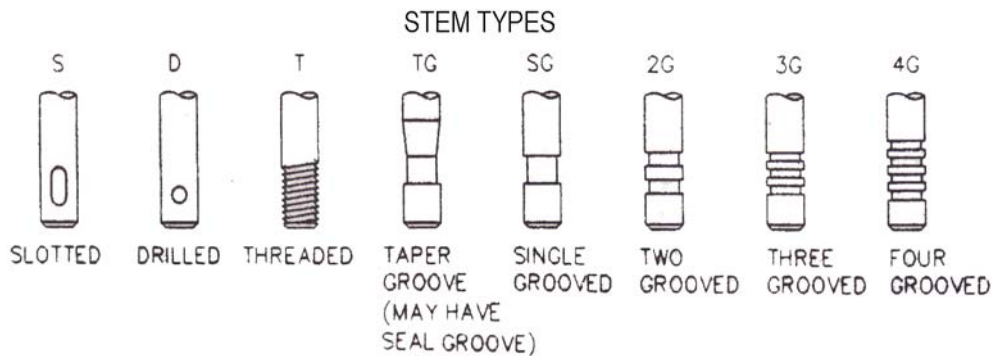
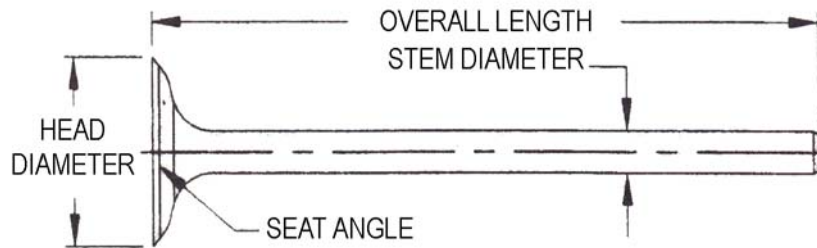
COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 1</b>	<b>0.2L (15 C.I.) ACN, 0.3L (18 C.I.) AK/M/N/S</b>			<b>L1 BORE - 2.625, 2.875"</b>
Valve Seat Insert	Both		20-1375-5	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
Guide	Both		30-1907	1.813 OAL. OEM # AD47, AD41E
Keeper	Both		34-614	Heat Treated. 1 Groove. OEM # AH9
<b>LINE 2</b>	<b>0.3L (19 C.I.) AD, ADH</b>			<b>L1 BORE - 2.75"/69.85mm</b>
Valve	Both		10-249	1.313 Head Dia. OEM # AE-75-C
	Exh		10-598S	1.250 Head Dia. OEM # AE-75-D
Valve Seat Insert	Both		20-1375-5	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
Guide	Both		30-1723	2.500 OAL. 0.500 O.D. Repair Guide. MG-12154
	Both		30-1909	2.064 OAL. OEM # AD43
Keeper	Both		34-614	1 Groove. Heat Treated. OEM # AH-9.
<b>LINE 3</b>	<b>0.4L (23 C.I.) AE, AEH, AEM, AEN</b>			<b>L1 BORE - 3.00"/76.2mm</b>
Valve	Both		10-249	1.313 Head Dia. OEM # AE-75-C
	Exh		10-598S	1.250 Head Dia. OEM # AE-75-D
Valve Seat Insert	Both		20-1375-5	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
Guide	Both		30-1723	2.500 OAL. 0.5018 O.D. Repair Guide. MG-12154
	Both		30-1909	2.064 OAL. OEM # AD43
Spring	Both		32-518	w/o Stellite Exh Valve. 2.313 Free Length
	Both		32-602	1.969 Free Length. w/ Stellite Exh Valve
Keeper	Both		34-614	1 Groove. Heat Treated. OEM # AH-9.
<b>LINE 4</b>	<b>39,154 C.I. AG/H/HD/M/N/ND, VG/4D, VM4/D, VP4/D</b>			<b>L1,4 BORE - 3.50"/88.8mm</b>
Guide	Both		30-1458	2.500 OAL. 0.5018 O.D. When Block Is Worn It May Be Bored For This Guide
	Both		30-1908	2.500 OAL. 0.4385 O.D. Length Also Fits AG, AGN, VM4/D, VP4/D
Keeper	Both		34-614	Heat Treated. 1 Groove.
<b>LINE 5</b>	<b>46, 92 C.I. TE, TED, VE4, VE41, VE4D WIS</b>			<b>L2,4 BORE - 3.00"/76.2mm</b>
Valve	Both		10-249	1.313 Head Dia. OEM # AE-75-C
	Exh		10-598S	1.250 Head Dia. OEM # AE-75-D
Valve Seat Insert	Both		20-1375-5	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
Guide	Both		30-1723	2.500 OAL. 0.5018 O.D. Repair Guide. MG-12154
	Both		30-1907	1.813 OAL
Spring	Both		32-518	w/o Stellite Exh Valve. 2.313 Free Length
	Both		32-602	1.969 Free Length. w/ Stellite Exh Valve
Keeper	Both		34-614	1 Groove. Heat Treated. OEM # AH-9.

**WISCONSIN****HEAVY DUTY**

COMPONENT	I/E/B	YEARS	PART No.	NOTES
<b>LINE 6</b>	<b>54 C.I. TF, TFD, TH, THD, TJD WIS</b>			<b>L2 BORE - 3.25"/82.55mm</b>
Valve	Both		<b>10-249</b>	1.313 Head Dia. OEM # AE-75-C
	Exh		<b>10-598S</b>	1.250 Head Dia. OEM # AE-75-D
Valve Seat Insert	Both		<b>20-1375-5</b>	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
Guide	Both		<b>30-1723</b>	2.500 OAL. 0.5018 O.D. Repair Guide. MG-12154
	Both		<b>30-1909</b>	2.064 OAL. OEM # AD43
Spring	Both		<b>32-518</b>	w/o Stellite Exh Valve. 2.313 Free Length
	Both		<b>32-602</b>	1.969 Free Length. w/ Stellite Exh Valve
Keeper	Both		<b>34-614</b>	1 Groove. Heat Treated. OEM # AH-9.
<b>LINE 7</b>	<b>108 C.I. VF4, VF4D, VH4, VH4D, VH4DM</b>			<b>L4 BORE - 3.25"/82.55mm</b>
Valve	Both		<b>10-249</b>	1.313 Head Dia. OEM # AE-75-C
	Exh		<b>10-598S</b>	1.250 Head Dia. OEM # AE-75-D
Valve Seat Insert	Both		<b>20-1375-5</b>	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
Guide	Both		<b>30-1723</b>	2.500 OAL. 0.5018 O.D. Repair Guide. MG-12154
	Both		<b>30-1909</b>	2.064 OAL. OEM # AD43
Spring	Both		<b>32-518</b>	w/o Exh Rotors. 2.313 Free Length
	Both		<b>32-602</b>	1.969 Free Length. w/ Exh Rotors
Keeper	Both		<b>34-614</b>	1 Groove. Heat Treated. OEM # AH-9.
<b>LINE 8</b>	<b>2.5L (154 C.I.) V460D, 461D</b>			<b>L4 BORE - 3.50"/88.9mm</b>
Valve Seat Insert	Exh		<b>20-1375-5</b>	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
	Int		<b>20-1625-2</b>	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. +10 O/S Avail.
Guide	Both		<b>30-6053</b>	2.125 OAL. OEM # AD44B
Spring	Both		<b>32-602</b>	1.969 Free Length
<b>LINE 9</b>	<b>2.9L (177 C.I.) V465</b>			<b>L4 BORE - 3.75"/95.2mm</b>
Valve Seat Insert	Exh		<b>20-1375-5</b>	1-1/8 I.D. 1-3/8 O.D. 17/64 Depth.
	Int		<b>20-1625-2</b>	1-3/8 I.D. 1-5/8 O.D. 1/4 Depth. +10 O/S Avail.

# MANUFACTURER ABBREVIATIONS FOR NUMERICAL LISTINGS

Engine Manufacturer	Abbr.	Engine Manufacturer	Abbr.
Allis-Chalmers	ALL	John Deere	JDR
Case	CAS	Komatsu	KOM
Caterpillar	CAT	Kubota	KUB
Chrysler Industrial	CHI	Lister-Petter	LIS
Continental	CON	Mack	MAC
Cummins	CUM	Mazda Industrial	MAI
Detroit Diesel	DDA	Mercedes Benz Truck	MBT
Deutz	DEU	Minneapolis, Oliver	MIN
Ford Diesel and Industrial	FDI	Mitsubishi Diesel and Industrial	MDI
Ford Tractor	FTA	Nissan Industrial	NII
GM Diesel and Industrial	GDI	Perkins	PER
Hercules	HER	Toyota Industrial	TOI
Hino	HIN	Volvo Heavy Duty	VOH
I.H.C. Tractors / Power Units	IHC	Waukesha	WAU
International / Navistar Truck	IHN	Wisconsin	WIS
Isuzu Diesel and Industrial	IDI		



## VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-154	1.313	0.3412	4.906	0.4220	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 1,2,3
10-155	1.438	0.3412	4.906	0.3591	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 1,2,3
10-159	1.594	0.4340	6.700	0.4840	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	MIN 6,9
10-160	1.718	0.4340	6.670	0.4840	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	MIN 6,8,9
10-168	1.500	0.3715	5.156	0.4220	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 7,8
10-169	1.688	0.3715	5.161	0.4220	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	ALL 7,8
10-170	1.203	0.3381	5.174	0.4530	45	D	<input type="checkbox"/>	<input type="checkbox"/>	CAS 1 CON 5,8,14
10-185	1.407	0.3405	4.840	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 4
10-193	1.500	0.3410	5.363	0.2430	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 5
10-196	1.328	0.3387	5.197	0.4530	44	D	<input type="checkbox"/>	<input type="checkbox"/>	CAS 1 CON 5,8,10,14,15 MAC 1
10-203	1.656	0.3715	5.844	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 15,17
10-204	1.812	0.3715	5.848	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 15,17



# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-205	1.375	0.3410	5.359	0.2430	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 5
10-207	1.812	0.3715	5.515	0.2500	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 15
10-210	1.328	0.339	5.198	0.4150	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CAS 1 CON 11,14,15 MAC 1
10-211	1.520	0.3406	5.177	0.4215	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CON 15
10-212	1.510	0.3410	4.819	0.2565	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FTA 1
10-220	1.281	0.3410	4.807	0.2565	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FTA 1
10-234	1.015	0.3128	3.938	0.2350	45	D	<input type="checkbox"/>	<input type="checkbox"/>	CON 4
10-249	1.313	0.3085	4.771	0.2449	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	WIS 2,3,5,6,7
10-257	1.501	0.3400	4.875	0.2508	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 5
10-270	1.283	0.3410	4.700	0.4025	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FTA 1
10-283	1.468	0.3410	4.937	0.3120	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MIN 3
10-298	1.718	0.3410	4.845	0.2510	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 5
10-312	1.156	0.3410	4.942	0.2059	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 2,3
10-313	1.342	0.3410	4.941	0.2059	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 2,3
10-318	2.028	0.4365	7.788	0.5450	44	TG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 7,13
10-319	1.840	0.4365	7.781	0.5390	44	TG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 7,13
10-323	1.313	0.3725	5.156	0.3150	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	MIN 2 WAU 2,4
10-326S	1.745	0.4025	7.058	0.4010	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 16,21 KOM 3,4
10-327	1.584	0.3421	6.443	0.3583	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 3
10-343	1.278	0.3146	3.977	0.2660	30	D	<input type="checkbox"/>	<input type="checkbox"/>	CON 6
10-348	1.510	0.3410	4.978	0.2020	45	TG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 1,2 FTA 2,6
10-349	1.531	0.3405	4.845	0.2500	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 4
10-373	1.780	0.3421	5.110	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 5
10-375	1.510	0.3418	5.089	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 5,8
10-376	1.647	0.3420	5.090	0.2000	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 1,2,8 FTA 2,6
10-411	1.584	0.3420	6.444	0.3585	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 3
10-427S	1.656	0.3715	6.083	0.2488	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 17,18,20
10-428	1.812	0.3715	6.083	0.2485	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 17,18,20
10-485	0.906	0.3100	3.382	0.2330	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 1
10-486	1.140	0.3128	3.989	0.2000	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CON 6
10-489	1.015	0.3128	4.077	0.2000	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CON 2,3,4
10-494	1.925	0.3421	5.110	0.2000	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 8
10-503	1.312	0.3410	5.281	0.2060	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 3,4
10-504	1.500	0.3410	5.280	0.2060	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 3,4
10-514	1.844	0.3725	4.599	0.2130	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-515S	1.310	0.3405	5.983	0.3455	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 4,7
10-518	1.563	0.3715	4.539	0.0989	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-520	1.600	0.3725	4.889	0.2235	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 12
10-548	2.080	0.3725	4.869	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 12,13
10-549	1.406	0.3720	4.892	0.0875	44	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12
10-550	1.787	0.3720	4.899	0.0898	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12
10-559S	1.609	0.3720	5.473	0.5181	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 23 IHN 2
10-560	1.969	0.3725	5.223	0.2840	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 23 IHN 2
10-567	1.620	0.3725	4.774	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 2
10-574S	2.282	0.4955	9.266	0.6790	44	TG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 20
10-576	1.500	0.4335	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CON 9 CHI 10,11
10-577	1.880	0.3725	5.668	0.2260	45	4G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 10,11
10-592	1.300	0.3720	6.063	0.2772	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 8,13,21 IHN 11
10-593	1.652	0.3720	6.063	0.2772	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 8,13,21 IHN 11
10-598S	1.250	0.3075	4.771	0.2450	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	WIS 2,3,5,6,7
10-600	1.656	0.3720	5.086	0.2772	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 11,16 IHN 5
10-601	1.781	0.3720	5.072	0.2772	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 7,9,10,11,16 IHN 8
10-602	1.870	0.4505	7.063	0.4010	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 18 KOM 5
10-602S	1.870	0.4505	7.063	0.4010	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 18,22 KOM 5
10-603	1.870	0.4505	7.063	0.4010	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 18 KOM 5
10-608	1.510	0.3410	5.825	0.2015	44	TG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 3 FTA 5
10-609	1.647	0.3418	5.931	0.2465	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 3 FTA 5
10-626	1.687	0.3710	5.160	0.4220	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 7,8
10-657	1.690	0.3415	4.777	0.3840	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	JDR 3,5
10-658	1.500	0.3720	5.731	0.3280	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	JDR 13
10-659	1.688	0.3720	5.700	0.3280	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	JDR 13
10-660	1.590	0.3720	6.248	0.3282	45	2G	<input type="checkbox"/>	<input checked="" type="checkbox"/>	JDR 15
10-663	1.805	0.3720	5.741	0.3450	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	JDR 1

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-690	1.403	0.3404	6.352	0.3130	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAS 10
10-691	1.604	0.3414	6.352	0.3130	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAS 10
10-702	1.870	0.4505	6.605	0.3976	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 13,17
10-703	1.870	0.4505	6.605	0.3970	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CUM 13,17
10-751S	2.350	0.4955	9.390	0.3930	29	TG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 27,28
10-752S	2.505	0.4955	9.390	0.3945	29	TG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 27,28
10-753S	1.771	0.3717	6.563	0.2827	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 6,12
10-755	1.895	0.3717	6.563	0.2730	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 5,6,12
10-758	1.400	0.3103	6.408	0.3583	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 1
10-759	1.090	0.2484	5.552	0.3100	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 2
10-810	1.516	0.3410	5.157	0.4528	30	D	<input type="checkbox"/>	<input type="checkbox"/>	CAS 1 CON 5,8,10,14,15 MAC 1
10-852S	2.343	0.4955	9.297	0.6590	44	TG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 20
10-861	1.375	0.3410	4.937	0.3120	46	SG	<input type="checkbox"/>	<input type="checkbox"/>	MIN 3
10-873	1.315	0.3115	4.499	0.1800	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	PER 3,6,10
10-874	1.534	0.3115	4.500	0.1803	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	PER 3,6,10
10-882	1.440	0.3725	4.855	0.2028	45	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ALL 9 PER 7,9,12,14
10-883	1.744	0.3730	4.829	0.1930	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 9 PER 7,9,12,14
10-887	1.513	0.3715	5.446	0.2660	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	MIN 6
10-912	1.455	0.3725	4.984	0.3122	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	WAU 2,3
10-917	1.505	0.4343	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FDI 12,16,21
10-917+3	1.505	0.4373	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FDI 12,16,21
10-917+15	1.505	0.4358	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FDI 12,16,21
10-917+30	1.505	0.4403	5.373	0.3225	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FDI 12,16,21
10-921	1.375	0.3720	6.060	0.2770	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 13,21,22 IHN 11
10-922	1.679	0.3720	6.035	0.2772	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 13,21,22 IHN 11
10-923	1.625	0.4350	6.238	0.2984	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 28,30 IHN 23
10-924	1.940	0.4350	6.150	0.2984	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 28,30 IHN 23
10-938	1.780	0.3725	4.979	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-938+15	1.780	0.3875	4.979	0.3365	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-949	1.753	0.3715	5.393	0.3030	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 10,11,21
10-963	1.781	0.3420	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-963+3	1.781	0.3450	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-963+15	1.781	0.3570	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-963+30	1.781	0.3720	4.810	0.2402	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-965S	1.560	0.3420	4.810	0.2453	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-965S+15	1.560	0.3570	4.810	0.2453	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-983	2.375	0.4965	7.863	0.7035	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	MIN 8
10-989	1.375	0.3412	4.942	0.3590	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 5
10-990	1.500	0.3428	4.942	0.3430	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 5
10-1017S	1.500	0.4335	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 10,11
10-1017S+5	1.500	0.4385	5.690	0.3630	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 10,11
10-1018	1.090	0.2484	5.556	0.3100	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 2
10-1036S	2.245	0.4970	6.864	0.2660	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 5,6,9,11
10-1037	1.889	0.4960	6.864	0.2660	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	MAC 5,6,9,11
10-1041	1.250	0.3095	4.438	0.2996	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 6
10-1042	1.480	0.3095	5.356	0.3663	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 6
10-1055	1.375	0.3386	5.524	0.3370	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CON 11
10-1057S	1.753	0.3714	5.393	0.4730	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 12,16
10-1073	1.438	0.3425	4.952	0.3430	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 5
10-1075S	1.516	0.3705	5.053	0.2770	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 7,9,10,11,16
10-1107S	2.065	0.3720	5.230	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 9
10-1120	1.780	0.3420	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-1120+3	1.780	0.3450	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-1120+15	1.780	0.3570	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-1120+30	1.780	0.3720	4.810	0.2402	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 6,9
10-1133S	1.734	0.4145	5.479	0.5181	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 29 IHN 3,18
10-1133S+3	1.734	0.4175	5.479	0.5181	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 29 IHN 3,18
10-1145S	1.646	0.3717	5.997	0.3160	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 25
10-1146S	1.771	0.3717	5.997	0.3160	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 25
10-1147	1.203	0.3381	5.190	0.2882	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CON 7,16
10-1148	1.516	0.3409	5.167	0.2882	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CON 7,16
10-1152	2.078	0.3725	5.250	0.3200	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 29 IHN 3,18
10-1156	1.740	0.3722	4.885	0.2235	45	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CHI 13

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1164	2.190	0.3720	5.225	0.2201	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 9,11
10-1177S	1.560	0.3419	4.810	0.2449	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 6,9
10-1177S+15	1.560	0.3569	4.810	0.2449	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 6,9
10-1192SP	1.600	0.371	4.925	0.525	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 1,4
10-1193SP	2.020	0.371	4.9133	0.525	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 1,4
10-1203	1.896	0.3717	5.469	0.2770	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1204		0.3716	5.510	0.3080	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1205S	1.896	0.3717	5.469	0.2772	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8,18
10-1217S	1.508	0.3704	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 11,21
10-1228	1.605	0.3788	5.565	0.3300	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 5,9
10-1233	1.575	0.3720	5.157	0.3386	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 7,8,11,18,19,20
10-1234	1.772	0.3720	5.157	0.3385	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 7,8,11,18,19
10-1235S	1.660	0.3716	5.367	0.2200	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 9
10-1257	1.680	0.3720	4.930	0.2551	44	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IHN 19
10-1258	2.025	0.3720	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHN 19
10-1258+3	2.025	0.3750	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHN 19
10-1258+15	2.025	0.3870	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHN 19
10-1260	1.787	0.3720	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12 IHN 6
10-1260+3	1.787	0.3750	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12 IHN 6
10-1260+15	1.787	0.3870	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12 IHN 6
10-1260+30	1.787	0.4020	4.899	0.1825	29	4G	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12 IHN 6
10-1261S	1.720	0.3716	5.355	0.2201	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 9
10-1265	1.360	0.3715	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 2
10-1265+3	1.360	0.3745	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 2
10-1265+5	1.360	0.3765	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 2
10-1265+15	1.360	0.3865	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 2
10-1265+30	1.360	0.4015	4.796	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 2
10-1266	1.390	0.3101	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1266+3	1.390	0.3131	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1266+15	1.390	0.3251	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1266+30	1.390	0.3401	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1268	1.651	0.3103	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1268+3	1.651	0.3133	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1268+15	1.651	0.3253	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1268+30	1.651	0.3403	4.260	0.1902	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1271	1.654	0.3419	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 23
10-1271+3	1.654	0.3449	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 23
10-1271+15	1.654	0.3569	4.983	0.4000	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 23
10-1272	2.083	0.3419	5.198	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1272+3	2.083	0.3449	5.198	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1272+15	2.083	0.3569	5.198	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1288	1.715	0.3720	6.227	0.3250	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 16
10-1289	1.902	0.3720	6.245	0.3250	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 16
10-1294S	1.500	0.3718	4.923	0.2890	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 1,4
10-1301S	1.805	0.4335	6.343	0.2378	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHN 20
10-1305S	1.457	0.3720	5.322	0.2725	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	JDR 4
10-1306	1.772	0.3720	5.312	0.4325	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	JDR 4
10-1314S	2.020	0.3717	5.510	0.3079	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8,18
10-1325	1.406	0.3721	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 12 IHN 6
10-1325+3	1.406	0.3751	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 12 IHN 6
10-1325+15	1.406	0.3871	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 12 IHN 6
10-1325+30	1.406	0.4021	4.892	0.1825	44	4G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 12 IHN 6
10-1329	1.500	0.3715	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-1329+5	1.500	0.3769	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-1329+15	1.500	0.3865	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-1329+30	1.500	0.4019	5.003	0.2235	43	4G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CHI 8
10-1332	1.508	0.3704	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 10
10-1332+3	1.508	0.3734	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 10
10-1332+15	1.508	0.3854	5.373	0.3030	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 10
10-1336S	1.902	0.3720	6.148	0.3250	44	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 16,24
10-1346S	1.635	0.4340	5.702	0.2717	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 17
10-1350S	1.370	0.3100	5.800	0.1890	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 17
10-1351S	1.430	0.3100	5.800	0.1890	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 17

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1357	1.751	0.3103	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1357+3	1.751	0.3133	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1357+15	1.751	0.3253	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1357+30	1.751	0.3403	4.260	0.1902	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 4
10-1358	1.560	0.3419	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 6,9
10-1358+3	1.560	0.3449	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 6,9
10-1358+15	1.560	0.3569	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 6,9
10-1358+30	1.560	0.3719	4.810	0.2449	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 6,9
10-1365	1.203	0.3145	4.016	0.2000	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CON 2,3
10-1366	1.380	0.3104	5.528	0.3100	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 9
10-1368S	1.508	0.3419	4.983	0.4000	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 23
10-1375	1.715	0.3720	6.133	0.3250	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 16,24
10-1376S	1.500	0.3720	5.945	0.2960	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	JDR 14
10-1377	1.715	0.3720	6.208	0.3250	29	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 22,25
10-1378	1.804	0.3715	5.693	0.3217	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 3
10-1379	2.094	0.3725	5.698	0.3220	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 3
10-1403	1.715	0.3720	6.192	0.3200	29	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 22,25
10-1404	1.750	0.3720	6.128	0.3200	29	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 22
10-1405	1.821	0.3720	5.157	0.3385	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 11,20
10-1406	1.875	0.4340	6.569	0.3500	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 27
10-1408	1.875	0.4341	6.708	0.3760	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 28
10-1409	2.031	0.4341	6.732	0.4690	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 28
10-1412	1.875	0.4342	6.655	0.3750	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 31
10-1415S	2.245	0.4970	6.864	0.2913	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 3,5,6,7,9
10-1420S	1.605	0.3788	5.565	0.2433	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 5,9
10-1422	1.600	0.3721	5.803	0.2252	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 31,33 IHN 28
10-1422S	1.600	0.3721	5.803	0.2252	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 31,33 IHN 28
10-1423	1.970	0.3721	5.806	0.2248	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 31,33 IHN 28
10-1429S	1.180	0.3104	5.529	0.3100	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 5
10-1431S	1.535	0.3720	5.482	0.2840	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHN 21
10-1432	2.054	0.3725	5.467	0.4831	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHN 21
10-1441	1.406	0.3720	4.892	0.2453	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 12 IHN 6
10-1441+15	1.406	0.3870	4.892	0.2453	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 12 IHN 6
10-1442	1.787	0.3720	4.899	0.2453	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12 IHN 6
10-1442+15	1.787	0.3870	4.899	0.2453	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 12 IHN 6
10-1446	1.889	0.4955	6.864	0.2920	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 3,5,6,7,9
10-1455	1.665	0.3413	5.932	0.2591	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 6
10-1456	1.811	0.3413	5.932	0.2591	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 6
10-1458S	2.282	0.3717	9.266	0.7900	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 20
10-1459S	2.343	0.3717	9.297	0.7700	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 20
10-1460S	2.350	0.3717	9.391	0.5045	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 27,28
10-1461S	2.505	0.3717	9.390	0.5045	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 27,28
10-1462S	1.771	0.3717	7.140	0.4902	29	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 22
10-1468S	1.646	0.3717	7.140	0.4900	44	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 22
10-1471S	1.821	0.3720	5.167	0.3385	30	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 11,18,19,20
10-1475	2.157	0.4345	6.341	0.2378	14	2G	<input type="checkbox"/>	<input type="checkbox"/>	IHN 20
10-1476S	2.350	0.3717	9.392	0.5045	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 27,28
10-1482S	1.496	0.3718	5.108	0.2760	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 5
10-1483S	1.653	0.3719	5.108	0.2750	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 5
10-1484	1.811	0.3413	5.108	0.2752	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 5,6
10-1489S	1.896	0.3717	5.308	0.2772	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1490S	2.020	0.3717	5.371	0.3079	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1491S	1.896	0.3717	5.469	0.2772	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1497S	1.804	0.3715	5.683	0.3217	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 3
10-1498S	2.205	0.3717	8.622	0.6910	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 26
10-1500	1.180	0.3104	5.529	0.3100	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 5
10-1504S	1.560	0.3420	4.750	0.2898	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 9
10-1506S	1.805	0.4342	6.101	0.3190	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 37 IHN 33
10-1507	2.157	0.4345	6.099	0.3190	14	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 37 IHN 33
10-1511	1.750	0.4015	6.428	0.2500	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAS 18
10-1512	2.000	0.4025	6.428	0.2500	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAS 18
10-1518	1.968	0.3413	5.104	0.2760	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 5
10-1519	1.455	0.3721	5.640	0.1840	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 27 IHN 13

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1520	1.710	0.3721	5.689	0.2252	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	IHC 27 IHN 13
10-1523S	1.444	0.3708	5.997	0.4010	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 10
10-1524	1.620	0.3718	5.996	0.4008	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 10
10-1525S	1.651	0.3708	6.018	0.4010	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 14
10-1526	1.839	0.3718	6.016	0.4012	29	SG	<input type="checkbox"/>	<input type="checkbox"/>	ALL 14
10-1530	1.798	0.3726	7.274	0.3250	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 11
10-1531	1.673	0.3789	6.940	0.4122	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 15
10-1532	1.673	0.3789	6.945	0.4122	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 15
10-1533S	2.220	0.4948	7.550	0.4600	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 14
10-1534	2.220	0.4950	7.545	0.4600	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 14
10-1542	1.595	0.3720	5.670	0.2469	37	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 20,22 IHN 24,25
10-1542S	1.595	0.3720	5.680	0.2469	37	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 20,22 IHN 24,25
10-1543	1.877	0.3719	5.687	0.2740	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 20,22 IHN 24,25
10-1543+15	1.877	0.3869	5.697	0.2740	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 20,22 IHN 24,25
10-1547	1.654	0.3419	4.982	0.4000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1548	1.976	0.3419	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1548+3	1.976	0.3449	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1548+15	1.976	0.3569	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1548S	1.976	0.3419	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 23
10-1548S+3	1.976	0.3449	5.197	0.3398	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 23
10-1566	1.556	0.3429	8.498	0.6150	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-1567	1.732	0.3435	8.498	0.5950	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-1570	1.573	0.3715	6.872	0.4095	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 4
10-1571S	1.694	0.3725	6.955	0.4095	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 4
10-1574S	1.455	0.3713	5.678	0.2252	45	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IHC 27 IHN 13
10-1576	1.896	0.3717	5.308	0.2772	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1577	2.020	0.3716	5.378	0.3079	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1578S	1.720	0.3716	5.355	0.2200	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 9
10-1578SP	1.720	0.3716	5.355	0.220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 9
10-1579S	1.575	0.3150	6.961	0.2830	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 4,10
10-1580	1.850	0.3150	6.976	0.2830	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 4,10
10-1581S	1.654	0.3717	6.850	0.6330	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 15,16
10-1582	1.772	0.3717	6.850	0.5720	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 15,16
10-1582S	1.772	0.3717	6.850	0.5720	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 15
10-1584S	2.205	0.3717	8.622	0.6910	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 26
10-1586	1.850	0.3720	6.178	0.3248	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 23,25,26
10-1587	2.008	0.3730	6.060	0.3591	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 23,25,26
10-1588	1.673	0.3095	5.257	0.2567	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	JDR 10
10-1589	1.835	0.3100	5.278	0.2567	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 10
10-1590S	2.031	0.4342	6.661	0.3750	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 31
10-1632S	1.646	0.3717	7.140	0.4900	20	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 22
10-1648	1.727	0.3723	5.979	0.7230	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHN 34
10-1649	1.924	0.3728	6.0245	0.7030	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHN 34
10-1650S	1.750	0.4025	6.428	0.2500	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAS 18
10-1653	1.500	0.3704	5.745	0.2449	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	FTA 4,7,8,9,12,14,16
10-1654	1.805	0.3714	5.743	0.2449	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	FTA 4,7,8,9,12,14,16
10-1656S	1.745	0.4025	7.109	0.4010	15	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 16
10-1658S	1.673	0.3789	6.940	0.4122	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 15
10-1659S	1.870	0.3789	7.726	0.4120	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 19
10-1660	1.870	0.3789	7.723	0.4120	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 19
10-1662S	1.673	0.3787	7.690	0.4122	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 15
10-1663	1.673	0.3789	7.690	0.4122	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 15
10-1664	1.654	0.3138	5.081	0.2362	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CAS 11 CUM 3
10-1665	1.772	0.3138	5.084	0.2360	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CAS 11 CUM 3
10-1666	1.811	0.3736	5.942	0.2220	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CUM 11
10-1667	2.047	0.3736	5.946	0.2224	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 11
10-1694	1.842	0.3718	5.742	0.2449	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 18 FTA 14,17
10-1695S	1.510	0.3705	5.742	0.2449	45	2G	<input type="checkbox"/>	<input type="checkbox"/>	FTA 4,7,8,9,12,14,16,17
10-1720S	1.673	0.3789	6.945	0.4120	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 15
10-1721S	1.875	0.4505	7.117	0.4010	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 18
10-1723	2.083	0.3419	5.175	0.3400	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 23
10-1734	2.220	0.4948	7.545	0.4598	30	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 14
10-1738S	2.220	0.4950	7.545	0.4600	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 14

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-1740	1.580	0.3704	5.742	0.2449	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 18
10-1750	1.573	0.3715	6.887	0.4095	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 4
10-1754	1.595	0.3719	5.670	0.2470	38	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 22 IHN 25
10-1756	1.870	0.3789	7.750	0.4120	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 19
10-1757	1.870	0.3715	6.160	0.2831	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 18,24
10-1758	1.693	0.3704	6.160	0.2831	44	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 18,24
10-1760S	2.020	0.3717	5.350	0.3079	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1761S	1.896	0.3717	5.307	0.2772	30	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 8
10-1780S	1.535	0.3718	5.112	0.2759	45	2G	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 5,6
10-1783	1.740	0.3729	4.836	0.2031	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 12
10-1784	1.472	0.3718	4.855	0.2028	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ALL 9 PER 7,8,9,12,13
10-1785	1.680	0.3122	5.805	0.3409	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 22 IHN 25
10-1786	1.680	0.3122	5.799	0.2909	37	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FDI 22 IHN 25
10-1798	1.441	0.3730	5.004	0.2035	44	SG	<input type="checkbox"/>	<input type="checkbox"/>	PER 7
10-1801	1.654	0.3138	5.135	0.2950	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 3
10-1804	2.205	0.3717	8.622	0.6910	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 26
10-1805S	2.205	0.3717	8.622	0.6910	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 26
10-1807S	1.500	0.3413	4.920	0.2890	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 1,4
10-1807SP	1.500	0.3413	4.920	0.289	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 1,4
10-1830S	1.771	0.3717	7.250	0.6080	30	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 23
10-1831S	1.646	0.3717	7.250	0.6080	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 23
10-1847S	1.870	0.3789	7.726	0.4120	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	CUM 19
10-1857S	1.771	0.3717	7.140	0.4902	20	2G	<input type="checkbox"/>	<input type="checkbox"/>	CAT 22
10-1862	1.654	0.3137	5.081	0.2440	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAS 11 CUM 3
10-1875	1.780	0.3420	4.750	0.2400	46	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 9
10-1880	1.812	0.3103	4.502	0.2950	60	SG	<input type="checkbox"/>	<input type="checkbox"/>	CAT 2
10-1881	1.602	0.3093	4.502	0.1882	45	SG	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CAT 2
10-1882	1.550	0.3093	4.539	0.1990	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CAT 2
10-1889	1.830	0.3543	7.716	0.3010	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 32,33
10-1899	1.970	0.3124	5.789	0.2750	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 34 IHN 29,31
10-1900S	1.600	0.3112	5.790	0.2744	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 34 IHN 29,31
10-1910S	1.694	0.3725	6.955	0.4095	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 10
10-1911	1.850	0.3717	7.953	0.5610	30	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 21,24
10-1912	1.646	0.3717	7.953	0.600	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 21,24
10-1928S	1.694	0.3725	7.056	0.5060	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 4,10
10-1931SP	1.940	0.3410	4.881	0.2605	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 1,4
10-1943	1.970	0.3722	5.787	0.2440	60	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 34 IHN 29,31
10-1944S	1.600	0.3714	5.787	0.2440	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 34 IHN 29,31
10-1945	1.786	0.3722	5.992	0.2420	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 35 IHN 30,32
10-1946S	1.786	0.3709	5.990	0.2420	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 35 IHN 30,32
10-2014	1.299	0.2755	4.907	0.2990	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 6,8
10-2015	1.299	0.2750	4.892	0.2980	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 6
10-2095	1.573	0.3715	6.992	0.5095	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAC 10
10-2126S	1.721	0.3720	5.400	0.2180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 11
10-2131	1.970	0.3722	5.992	0.2440	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 35 IHN 30,32
10-2160S	1.693	0.3717	7.839	0.2500	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 11
10-2161S	1.575	0.3150	7.209	0.4330	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 11
10-2166	1.594	0.3724	5.205	0.2250	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	PER 11
10-2167	1.845	0.3734	5.215	0.2200	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	PER 11
10-2168S	2.205	0.4950	8.622	0.7440	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 26
10-2175	1.299	0.2738	4.975	0.5210	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 7
10-2176	1.220	0.2730	4.963	0.5200	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GDI 7
10-2179	1.339	0.2737	5.058	0.3570	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 14 IHN 15
10-2180	1.102	0.2737	5.059	0.3600	37	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 14 IHN 15
10-2187	1.496	0.3135	5.423	0.3300	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 10,12
10-2188	1.496	0.3135	5.423	0.3300	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 10,12
10-2234	1.189	0.2756	4.095	0.1181	45.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBT 2
10-2235	1.120	0.2756	4.108	0.1201	45.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBT 2
10-2237	1.969	0.3523	5.549	0.4508	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 2,8 IDI 7,11
10-2238	1.654	0.3516	5.537	0.4504	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 2,8 IDI 7,11
10-2239	1.830	0.3522	5.555	0.4520	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 2,8 IDI 7,11
10-2243	1.384	0.2745	4.319	0.1970	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 4,9
10-2244	1.185	0.2735	4.299	0.1790	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 4,9

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-2252S	1.654	0.3138	5.261	0.3860	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 3
10-2253S	1.772	0.3138	5.264	0.3460	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 3
10-2254	1.811	0.3736	5.942	0.2220	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 11
10-2255	2.042	0.3736	5.586	0.2222	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 11
10-2257	1.772	0.3138	5.085	0.2360	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 3
10-2258S	1.646	0.3717	7.621	0.4900	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 22
10-2259S	1.771	0.3717	7.621	0.4900	20	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 22
10-2260S	1.417	0.3717	7.264	0.6150	24	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 9,14
10-2261	1.417	0.3717	7.205	0.6150	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 9
10-2262	1.870	0.3789	8.502	0.4690	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 20
10-2263S	1.790	0.3789	8.810	0.7610	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 20
10-2635	1.985	0.4965	7.803	0.4995	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	JDR 19
10-3041	1.575	0.372	6.874	0.411	20	SG	<input type="checkbox"/>	<input type="checkbox"/>	MAC 4
10-3042	1.693	0.3723	7.051	0.515	20	SG	<input type="checkbox"/>	<input type="checkbox"/>	MAC 4
10-3188	1.338	0.3127	5.069	0.441	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBT 4
10-3189	1.496	0.315	6.006	0.323	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBT 4
10-3192	1.534	0.3421	8.498	0.6150	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-3193	1.732	0.3421	8.498	0.5950	20	SG	<input type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-3196	1.504	0.315	5.736	0.4995	30	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOH 2
10-3197	1.409	0.315	5.740		45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOH 2
10-3200	1.300	0.2735	4.237	0.355	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDI 5
10-3201	1.183	0.273	4.234	0.353	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDI 5
10-3220	1.8563	0.3726	9.449	1.319	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 8
10-3221S	1.774	0.3718	9.707	1.575	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 8
10-3222	1.575	0.3124	4.646		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IDI 3
10-3223	1.401	0.3122	4.646		45	SG	<input type="checkbox"/>	<input type="checkbox"/>	IDI 3
10-3226	1.654	0.3150	7.559		20	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOH 3
10-3227	1.575	0.315	7.547		45	3G	<input type="checkbox"/>	<input type="checkbox"/>	VOH 3
10-3228S	2.205	0.372	8.628	0.156	30	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOH 3
10-5000	1.772	0.3730	4.837	0.1997	30	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PER 8,13
10-5001	1.693	0.3524	4.842	0.220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 8,13
10-5002S	1.620	0.3524	4.842	0.220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 8,13
10-5003	1.772	0.3529	4.886	0.220	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 8
10-5004	1.654	0.3524	4.89	0.2185	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 8
10-10031	1.462	0.3141	4.089	0.1590	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 3
10-10033S	1.188	0.3132	4.083	0.1580	44	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 3
10-10064	1.376	0.3124	4.394	0.1240	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MDI 1,2
10-10065	1.689	0.3140	4.432	0.1280	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MDI 2
10-10069	1.478	0.3142	4.922	0.1831	45	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 10,12
10-10070	1.811	0.3142	4.917	0.1748	45	3G	<input type="checkbox"/>	<input type="checkbox"/>	TOI 10,12
10-10076	1.488	0.3140	4.158	0.1080	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MDI 1
10-10083	1.220	0.3126	4.028	0.1180	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MDI 1
10-10091S	1.495	0.3125	4.252	0.1180	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 6
10-10092	1.810	0.3135	4.331	0.1180	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	MDI 6
10-10141	1.693	0.3136	4.323	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 2,3
10-10142	1.378	0.3126	4.277	0.1386	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 2,3
10-10143	1.811	0.3137	4.195	0.1378	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 3,5
10-10144	1.496	0.3126	4.141	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 3,5
10-10145	1.810	0.3134	4.250	0.1528	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 6
10-10146S	1.493	0.3120	4.170	0.1941	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 6
10-10216	1.575	0.3125	4.560	0.1783	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDI 2
10-10217	1.339	0.3115	4.560	0.1783	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IDI 2
10-10236	1.732	0.3164	4.405	0.2476	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAI 3
10-10237	1.417	0.3162	4.397	0.2492	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAI 3
10-10268	1.658	0.3140	4.899	0.2228	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 7
10-10269	1.500	0.3130	4.940	0.2291	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NII 7
10-10275	1.575	0.3140	4.609	0.1862	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 8
10-10276S	1.339	0.3131	4.606	0.1854	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 8
10-10307	1.417	0.3137	3.933	0.1618	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 5
10-10308	1.142	0.3137	3.934	0.1630	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOI 5
10-10322	1.575	0.3140	4.262	0.2787	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 6
10-10323	1.417	0.3140	4.272	0.2811	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TOI 6
10-10324S	1.318	0.2350	4.054	0.1811	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 10

# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Nitride Stem	Wafer / Stellite Tip	Application / Line Number
10-10415	1.575	0.3131	5.378	0.2555	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 4
10-10416	1.339	0.3122	5.379	0.2567	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 4
10-10624	1.693	0.3137	4.054	0.1540	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 7
10-10625	1.378	0.3126	4.042	0.1390	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDI 7
10-10725	1.772	0.3524	5.034	0.2200	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IDI 6,9
10-10726	1.476	0.3513	5.030	0.2200	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IDI 6,9
10-10728S	1.476	0.3514	5.028	0.2200	45	SG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IDI 6,9
10-10744	1.555	0.3160	4.430	0.2715	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAI 2
10-10745	1.177	0.3152	4.428	0.2650	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAI 2
10-10748	1.492	0.3417	4.318	0.2000	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 2
10-10749	1.260	0.3410	4.313	0.1880	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 2
10-10750	1.492	0.3421	4.320	0.3910	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 2
10-10751	1.254	0.3422	4.308	0.3930	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NII 2
10-10752	1.657	0.3403	4.353	0.2221	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NII 4,10
10-10753	1.262	0.3397	4.355	0.2230	45	SG	<input type="checkbox"/>	<input type="checkbox"/>	NII 4,10
10-10754	1.691	0.3340	4.318	0.1450	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 4
10-10755	1.457	0.3331	4.337	0.1470	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 4
10-10756	1.689	0.3330	4.312	0.1840	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 4
10-10757	1.453	0.3330	4.331	0.1850	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 4
10-10758	1.493	0.3137	4.074	0.1270	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 3
10-10759	1.165	0.3138	4.073	0.1400	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 3
10-10760	1.496	0.3136	4.072	0.1800	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 3
10-10761	1.179	0.3138	4.073	0.1650	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TOI 3
10-10766	1.689	0.3921	5.748	0.2400	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 14
10-10767S	1.610	0.3913	5.748	0.2400	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHC 14
10-13000	1.732	0.3421	8.498	0.5950	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-13000VK	1.732	0.3421	8.498	0.5950	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-13001	1.556	0.3421	8.498	0.6150	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-13001VK	1.556	0.3421	8.498	0.6150	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-13002	1.564	0.3121	5.826	0.4681	30	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHN 27
10-13003S	1.439	0.3113	5.811	0.4681	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IHN 27
10-13006	1.299	0.2756	4.893	0.300	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 6,8
10-13020	1.225	0.2742	3.532	0.3779	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KUB 1
10-13021	1.084	0.2742	3.532	0.3779	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KUB 1
10-13022	1.299	0.3134	3.980	0.2795	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KUB 3
10-13023	1.063	0.3134	3.980	0.2795	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KUB 3
10-13032	1.756	0.3708	7.417	0.5677	30	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 19
10-13033	1.634	0.3717	7.362	0.5953	45	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 19
10-13073	1.130	0.274	4.095	0.1181	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBT 2
10-13074	1.032	0.274	4.114	0.1181	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MBT 2
10-13121	1.455	0.3130	5.140	0.4173	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 3,10 IDI 8,12
10-13122	1.456	0.3120	5.128	0.4173	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 3,10 IDI 8,12
10-13137	1.823	0.3529	5.086	0.2381	29.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 5
10-13138	1.634	0.3518	5.086	0.2381	29.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 5
10-13151	1.756	0.3715	7.417	0.568	30	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 19
10-13161	1.299	0.2756	4.893	0.300	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 6,8
10-13163	1.496	0.3138	5.424	0.3355	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 12
10-13176	1.732	0.3543	7.717	0.3012	29.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 34
10-13177S	1.575	0.3142	6.398	0.3543	29	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 29
10-13178S	1.575	0.3142	6.398	0.3543	29	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 29
10-13182	1.339	0.2738	5.138	0.4366	37	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 15, IHN 17
10-13183	1.161	0.2738	5.138	0.4366	39.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 15, IHN 17
10-13192S	1.535	0.315	7.264	0.4583	29.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 14
10-13193	1.417	0.3717	7.269	0.6141	44.25	2G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAT 14
10-13246	1.457	0.2756	5.337	0.2657	29	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 17
10-13247	1.417	0.2753	5.337	0.2657	29	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	JDR 17
10-13265	1.331	0.2748	5.242	0.6988	29.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 19
10-13266	1.195	0.2748	5.242	0.6988	44.5	3G	<input checked="" type="checkbox"/>	<input type="checkbox"/>	FDI 19
10-13300S	1.575	0.3137	7.559	0.5295	29.5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOH 2
10-13301S	1.575	0.3132	7.547	0.5295	44.5	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	VOH 2
10-13308	1.870	0.3789	8.503	0.4669	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 20
10-13309S	1.790	0.3789	8.810	0.7579	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CUM 20
10-13326	1.457	0.2741	3.920	0.4528	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 1,2



# VALVE NUMERICAL LISTING

QC #	Head Dia.	Stem Dia.	Overall Length	Tip To Groove	Seat Angle	Stem Type	Chrome / Wafer /		Application / Line Number
							Nitride Stem	Stellite Tip	
10-13327	1.299	.2734	3.920	0.4528	45	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PER 1,2
10-21235S	1.660	0.3716	5.367	0.220	20	SG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GDI 9
10-23501576							<input type="checkbox"/>	<input type="checkbox"/>	DDA 7
10-23501577							<input type="checkbox"/>	<input type="checkbox"/>	DDA 7

# VALVE SEAT INSERT NUMBERING SYSTEM AND NOTES

20- Prefix denotes the four digit number is the estimated cutter size. The actual O.D. includes a press fit for a cast iron head of between .0045" and .006" depending on size.

e.g. 20-1562-1 suggests the use of a 1-9/16" cutter and allows for .0045" press fit. Actual O.D. is 1.5670".

21- Prefix is specifically for aluminum cylinder heads. The part number also includes the estimated cutter size and allows for .007" press fit.

e.g. 21-1625-59 suggests the use of a 1-5/8" cutter and allows for .007" press fit. Actual O.D. is 1.6320"

22- Prefix denotes the part number is the exact O.D. Used for factory Installed seats.

e.g. 22-2006-1 shows the actual O.D. 2.006".

All our valve seat inserts have a finished I.D. and geometry on the lead-in edge to ease the press fit. We use a variety of alloys to suit the applications listed in our catalog. For example very special alloys are used for heavy duty applications. We also feature the QualCast "N" series inserts manufactured using a non-magnetic nickel based alloy, which provides superior high temperature hardness and corrosion resistance. As with all our products, we "quality assure" their suitability at our test lab in Nashville.

## VALVE SEAT INSERT LISTING BY EXACT O.D.

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1000-1	1.000	1.0045	3/4		3/16	45	UNIVERSAL	
22-1088-1	1.088	1.0888	0.890T	0.955	0.221	45	CHC, MBT, MBZ	
20-1125-1	1-1/8	1.1295	7/8		7/32	45	UNIVERSAL	
22-1160-1	1.160	1.1600	0.960T	1.032	0.221	45	CHC, MBT, MBZ	
22-1161-1	1.161	1.1610	0.910T	0.975	0.222	30	DDA	010,020,030,040,062
20-1187-1	1-3/16	1.1920	1.000		3/16	45	UNIVERSAL	
21-1187-52	1-3/16	1.1945	0.934T	0.995	0.257	45	FDI, FOR, GM, HON, ISU, SUZ, TOY	
22-1221-2N	31mm	1.2205	0.906		0.335	45	METRIC "N" SERIES	
20-1250-1	1-1/4	1.2545	1.000		7/32	45	UNIVERSAL	
21-1250-50	1-1/4	1.2570	0.965T	1.060	1/4	45	GM, NIS, TOI, TOY	
22-1260-1N	32mm	1.2598	0.945		0.335	45	METRIC "N" SERIES	020,030
22-1262-1	1.262	1.2620	0.975T	1.045	1/4	30	DDA	005,010,020,030,040,053,062
22-1264-1	1.264	1.2645	0.977T	1.098	0.237	45	GDI, GM	005
20-1312-1	1-5/16	1.3170	1-1/16		3/16	45	UNIVERSAL	
20-1312-4	1-5/16	1.3170	1.000		1/4	45	UNIVERSAL	
21-1312-52	1-5/16	1.3195	1.060T	1.087	0.240	45	GM, ISU, NII, NIS	
22-1343-1	1.343	1.3430	1.069T	1.180	0.237	45	GDI, GM	005
22-1348-1N	1.348	1.3480	1.087		0.200	45	CAS, CON, FTA	010,030
22-1375-1	1.3750	1.3750	1.100	1.140	0.227	30	CHC, CUM, FDI, FOR, GM, IHN	010
22-1375-2N	1.375	1.3750	1.100	1.125	0.227	45	CHC, CUM, FDI, FOR, IHN	005,010
20-1375-1	1-3/8	1.3795	1-1/8		7/32	45	UNIVERSAL	030
20-1375-1N	1-3/8	1.3795	1-1/8		7/32	45	"N" SERIES	
20-1375-2	1-3/8	1.3795	1-1/8		1/4	45	UNIVERSAL	
20-1375-25	1-3/8	1.3795	1-3/32		0.203	45	CAS	
20-1375-3	1-3/8	1.3795	1-1/16		3/16	45	CON	
20-1375-3N	1-3/8	1.3795	1-1/16		3/16	45	"N" SERIES	
20-1375-4	1-3/8	1.3795	1-1/8		3/16	45	UNIVERSAL	
20-1375-5	1-3/8	1.3795	1-1/8		17/64	45	UNIVERSAL	
20-1375-8	1-3/8	1.3795	1.000		3/16	45	UNIVERSAL	
21-1375-51	1-3/8	1.3820	1.060T	1.150	0.280	45	CHC, FOR, GM, ISU, MDI, MIT, NIS	
21-1375-54	1-3/8	1.3820	1.022T	1.085	0.230	45	MAI, MAZ, NIS, TOY	
22-1382-2	1.382	1.3820	1.100		0.300	45	MBT	
22-1431-1	1.431	1.4305	1-5/32		0.160	30	CUM	
22-1437-2	1.437	1.4370	1.125T	1.219	0.2365	30	JDR	
22-1441-1	1.441	1.4410	1-13/64	1.245	0.215	30	DDA	010,020,030
20-1437-1	1-7/16	1.4420	1-1/4		7/32	45	UNIVERSAL	
20-1437-13	1-7/16	1.4420	1-3/16		5/32	45	UNIVERSAL	
20-1437-2	1-7/16	1.4420	1-7/32		7/32	45	UNIVERSAL	
20-1437-2N	1-7/16	1.4420	1-7/32		7/32	45	"N" SERIES	
20-1437-3	1-7/16	1.4420	1-3/16		7/32	45	UNIVERSAL	010
20-1437-3N	1-7/16	1.4420	1-3/16		7/32	45	"N" SERIES	020
20-1437-4	1-7/16	1.4420	1-1/8		7/32	45	UNIVERSAL	
20-1437-6	1-7/16	1.4420	1-1/8		5/16	45	UNIVERSAL	020

S Suffix Denotes Cobalt Based Alloy

N Suffix Denotes Nickel Based Alloy

# VALVE SEAT INSERT LISTING BY EXACT O.D.

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
22-1442-1	1.442	1.4420	1-9/64T	1.200	1/4	30	DDA	010,020,030,040,063
21-1437-58	1-7/16	1.4445	1.095T	1.262	0.237	45	GM, IDI, ISU	
22-1459-1	1.459	1.4595	1.200		0.217	24	CAT	
22-1460-2N	1.461	1.4605	1.236		0.236	45	CUM	
22-1476-2	1.476	1.4760	1.200T	1.277	0.2445	30	JDR	
22-1479-1S	1.479	1.4790	1.212T	1.295	0.257	45	CAT	
22-1480-2	1.480	1.4800	1.288T	1.299	0.250	45	IHN	
22-1486-1	1.486	1.4860	1.270		0.290	30	ALL	
20-1500-1	1-1/2	1.5045	1-1/4		7/32	45	UNIVERSAL	
20-1500-1N	1-1/2	1.5045	1-1/4		7/32	45	"N" SERIES	
20-1500-3	1-1/2	1.5045	1-1/4		1/4	45	UNIVERSAL	003
22-1505-1	1.505	1.5045	1-1/4		11/32	45	CAT	010,020,030
21-1500-54	1-1/2	1.5070	1.180T	1.325	0.307	45	KIA, MAI, MAZ, NIS	
21-1500-56	1-1/2	1.5070	1.275T	1.318	0.250	45	FIA, TOI, TOY	
21-1500-58	1-1/2	1.5070	1.200T	1.220	0.315	45	FIA, GM, SUB, TOI, TOY	
21-1500-62	1-1/2	1.5070	1.220T	1.284	0.310	45	BMW, CHC, GM, MDI, MIT, VOK	
21-1500-70	1-1/2	1.5070	1.203		0.283	45	NII, NIS, SAA	
22-1516-1	1.516	1.5160	1-1/4		1/4	45	CHI, CHC	
22-1536-2N	1.536	1.5365	1.255T	1.405	0.359	45	IHC	015
22-1539-2	1.539	1.5395	1.297T	1.390	0.276	45	IDI	
22-1554-1	1.554	1.5545	1.280T	1.324	0.236	30	CUM	10,13
22-1554-2	1.554	1.5545	1.301T	1.348	0.190	45	CUM	10,13
20-1562-1	1-9/16	1.5670	1-5/16		7/32	45	UNIVERSAL	005,010,015,030
20-1562-1N	1-9/16	1.5670	1-5/16		0.216	45	"N" SERIES	020
20-1562-2	1-9/16	1.5670	1-5/16T	1-3/8	0.248	45	UNIVERSAL	010,020
20-1562-36N	1-9/16	1.5670	1-5/16		3/16	45	"N" SERIES	
20-1562-4	1-9/16	1.5670	1-5/16		1/4	45	UNIVERSAL	010,020,030
20-1562-5	1-9/16	1.5670	1-3/8		1/4	45	UNIVERSAL	
20-1562-6	1-9/16	1.5670	1-1/4		7/32	45	UNIVERSAL	010,020,030
20-1562-6N	1-9/16	1.5670	1-1/4		7/32	45	"N" SERIES	
20-1562-7	1-9/16	1.5670	1-1/4		1/4	45	UNIVERSAL	
20-1562-8	1-9/16	1.5670	1-5/16		7/32	30	IHC, IHN	
20-1562-46N	1-9/16	1.5680	1-1/4		9/32	45	IDI	
21-1562-50	1-9/16	1.5695	1.260T	1.412	0.280	45	CHC, MDI, MIT	
21-1562-57	1-9/16	1.5695	1.246T	1.303	0.230	45	MAZ	
21-1562-69N	1-9/16	1.5695	1.219		0.317	45	CHC, HYU, MDI, MIT	
22-1575-3N	40mm	1.5748	1.181		0.374	45	METRIC "N" SERIES	
22-1577-1	1.577	1.5775	1.340T	1.412	0.220	30	CAT	
22-1578-1	1.578	1.5780	1.233T	1.323	0.315	45	MBT	
22-1584-1	1.584	1.5840	1.328T	1.397	0.250	30	IHN	
22-1593-1	1.593	1.5930	1.306T	1.425	0.224	30	CUM	010,020
22-1600-1	1.600	1.6000	1.340		0.300	45	FTA	010,020,030
22-1609-1	1.609	1.6090	1.400		1/4	45	ALL	
22-1620-1	1.620	1.6200	1.404		0.240	45	HIN	
22-1624-1N	1.624	1.6245	1-21/64		3/8	45	CHI, CHM, CHC	
22-1626-1N	1.626	1.6260	1.348T	1.406	0.365	45	IHC, IHN	
22-1628-2	1.628	1.6280	1-11/32	1.380	1/4	30	DDA	010,020,030,040
22-1628-1N	1.628	1.6285	1.348T	1.492	0.365	45	IHC	010,013,020,030
22-1628-3	1.628	1.6285	1.357T	1.414	0.249	30	DDA	005,010,020,030
22-1628-3D	1.628	1.6285	1.357T	1.414	0.270	30	DDA	
22-1628-4	1.628	1.6285	1.309T		0.237	20	DDA	
20-1625-1	1-5/8	1.6300	1-3/8		7/32	45	UNIVERSAL	005,010,015,020,030
20-1625-11	1-5/8	1.6300	1-11/32		7/32	45	UNIVERSAL	006
20-1625-1N	1-5/8	1.6300	1-3/8		7/32	45	"N" SERIES	
20-1625-2	1-5/8	1.6300	1-3/8		0.248	45	UNIVERSAL	010,020
20-1625-20	1-5/8	1.6300	1-5/16		0.395	45	CHI, CHM	
20-1625-2N	1-5/8	1.6300	1-3/8		1/4	45	"N" SERIES	010,020
20-1625-3	1-5/8	1.6300	1-5/16		1/4	45	UNIVERSAL	010
20-1625-3N	1-5/8	1.6300	1-5/16		0.248	45	"N" SERIES	
20-1625-4	1-5/8	1.6300	1-5/16		7/32	45	UNIVERSAL	020
21-1625-58	1-5/8	1.6300	1.280T	1.361	0.315	45	TOI, TOY	
22-1630-1	1.630	1.6300	1.335		0.312	45	FDI, FOR, FTA	010,015,020,030,040
22-1630-1N	1.630	1.6300	1.335		0.312	45	"N" SERIES	010,020,030

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# VALVE SEAT INSERT LISTING BY EXACT O.D.

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
21-1625-55	1-5/8	1.6320	1.333T	1.495	0.237	45	GM, IDI, ISU	
21-1625-56	1-5/8	1.6320	1.298T	1.382	0.317	45	BMW, CHC, HYU, MAZ, MDI, MIT	
21-1625-59	1-5/8	1.6320	1.380		0.257	45	NII, NIS	
21-1625-60	1-5/8	1.6320	1-1/4T	1.408	0.293	45	NII, NIS	
22-1635-1	1.635	1.6349	1.3583	1.5118	0.251	30	GDI	
22-1638-1N	1.638	1.6380	1.412		0.218	45	JDR	010,020
22-1638-2N	1.638	1.6380	1.400		0.218	30	JDR	
22-1654-1N	1.654	1.6544	1.367		0.312	45	IHN	
22-1656-1	1.656	1.6560	1.410		0.258	30	CAT	
22-1657-1	1.657	1.6570	1.312T	1.500	0.395	45	IHC	
22-1669-1	1.669	1.6690	1.372T	1.429	0.272	37	FDI, FOR, IHN	015,030,040,050
22-1670-1	1.670	1.6700	1.420		0.302	30	ALL	
22-1678-1	1.678	1.6785	1.446		0.312	45	IHC, IHN	010,020
22-1681-1N	1.681	1.6810	1-13/64		5/16	45	PER	
22-1681-3	1.681	1.6810	1.250		0.375	45	ALL, PER	
22-1687-1N	1.687	1.6870	1-7/16	1.546	0.365	45	CAT	See 22-1693-1N
22-1687-2	1.687	1.6870	1-7/16T	1.546	3/8	45	CAT	See 22-1693-2
22-1687-3N	1.687	1.6870	1.400		0.365	30	CAT	010
22-1687-5S	1.687	1.6870	1.318T	1.358	0.3150	20	CAT	010,020
22-1687-4N	1.687	1.6875	1.410		0.365	20	CAT	010,020
22-1690-1	1.690	1.6900	1-1/4		3/8	45	ALL, PER	
22-1691-1	1.691	1.6905	1-7/16		0.181	30	CUM	005,010,020,030
22-1691-2	1.691	1.6905	1-7/16		0.200	30	CUM	005,010,020,030
20-1687-1	1-11/16	1.6925	1-13/32		1/4	45	UNIVERSAL	010,030
20-1687-15	1-11/16	1.6925	1-7/16		5/32	45	UNIVERSAL	
20-1687-2	1-11/16	1.6925	1-7/16		7/32	45	UNIVERSAL	010
20-1687-2N	1-11/16	1.6925	1-7/16		7/32	45	"N" SERIES	
20-1687-3	1-11/16	1.6925	1-7/16		1/4	45	UNIVERSAL	
20-1687-3N	1-11/16	1.6925	1-7/16		1/4	45	"N" SERIES	
20-1687-4	1-11/16	1.6925	1-11/32		5/16	45	UNIVERSAL	
20-1687-4N	1-11/16	1.6925	1-11/32		5/16	45	"N" SERIES	
20-1687-5N	1-11/16	1.6925	1-3/8		7/32	45	"N" SERIES	020
20-1687-7	1-11/16	1.6925	1-3/8		1/4	45	UNIVERSAL	005
20-1687-8	1-11/16	1.6925	1-3/8		5/16	45	UNIVERSAL	
22-1692-1N	1.692	1.6925	1.430		0.248	30	MAC	005,015,030
22-1692-2N	1.692	1.6925	1.430		0.248	20	MAC	
22-1693-1N	1.693	1.6930	1-7/16T	1.546	0.365	45	CAT	005,010,020,030,040
22-1693-2	1.693	1.6930	1-7/16T	1.546	3/8	45	CAT	010,020,030
22-1693-8N	1.693	1.6935	1.458		0.234	45	CAT	
21-1687-55	1-11/16	1.6945	1.340		0.315	45	CHC, TOI, TOY	
22-1695-1	1.695	1.6950	1.345T	1.482	0.242	30	JDR	
22-1697-1	1.697	1.6975	1.450T	1.542	0.276	45	GDI, GM, IDI, ISU	
22-1722-1	1.722	1.7220	1.357T	1.574	0.265	45	CAS, CHC, CUM, GM	
22-1722-3	1.722	1.7220	1.382T	1.455	0.2650	20	CUM	
22-1725-2N	1.7255	1.7255	1.460		0.251	30	MAC	
22-1733-2N	1.733	1.7330	1.455T	1.597	0.365	45	FDI, FOR	030
22-1735-4	1.735	1.7350	1.340T	1.550	0.353	45	KOM	
22-1744-1N	1.744	1.7440	1.445		0.312	45	FDI, FOR	
20-1750-0	1-3/4	1.7550	1-3/8		3/8	45	UNIVERSAL	
20-1750-1	1-3/4	1.7550	1-1/2		1/4	45	UNIVERSAL	010
20-1750-12	1-3/4	1.7550	1.438T	1.610	0.203	45	DDA	
20-1750-1N	1-3/4	1.7550	1-1/2		1/4	45	"N" SERIES	
20-1750-2	1-3/4	1.7550	1-1/2		7/32	45	UNIVERSAL	010
20-1750-2N	1-3/4	1.7550	1-1/2		7/32	45	"N" SERIES	020
20-1750-3	1-3/4	1.7550	1-7/16		7/32	45	UNIVERSAL	010,020
20-1750-3N	1-3/4	1.7550	1-7/16		7/32	45	"N" SERIES	
20-1750-4	1-3/4	1.7550	1-7/16		1/4	45	UNIVERSAL	
20-1750-4N	1-3/4	1.7550	1-7/16		1/4	45	"N" SERIES	
20-1750-5	1-3/4	1.7550	1-7/16		5/16	45	UNIVERSAL	
20-1750-7	1-3/4	1.7550	1-3/8		7/32	45	UNIVERSAL	
20-1750-8	1-3/4	1.7550	1-3/8		1/4	45	UNIVERSAL	
20-1750-9	1-3/4	1.7550	1-3/8		5/16	45	UNIVERSAL	
21-1750-61	1-3/4	1.7570	1.445T	1.617	0.310	45	CHC, MDI, MIT	

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# VALVE SEAT INSERT LISTING BY EXACT O.D.

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
21-1750-66	1-3/4	1.7570	1.460T	1.530	0.275	45	CHC, FOR, MDI, MIT	
20-H1578	1.775	1.7750	1.433		0.270	45	FDI, FOR	
22-1775-1	1.775	1.7750	1.458T	1.680	0.300	45	IHN	015,030
22-1781-1N	1.781	1.7810	1.476		0.311	45	FDI, FOR	
22-1782-1	1.7825	1.7825	1.490T	1.623	0.340	30	IHC	015
22-1784-1N	1.7845	1.7845	1.417T	1.563	0.292	45	GDI, GM	
22-1784-2N	1.784	1.7845	1.417		0.292	45	GDI, GM	
22-1796-1	1.7967	1.7967	1.437T	1.525	0.387	45	HIN	
22-1796-2	1.7967	1.7967	1.437T	1.475	0.318	45	HIN	
22-1803-1	1.8035	1.8035	1.571		0.312	45	IHC, IHN	
22-1811-2N	1.811	1.8110	1.548T	1.650	0.334	45	IHC, IHN	
22-1811-3	1.811	1.8110	1.548T	1.650	0.334	45	IHN	
22-1812-1	1.812	1.8120	1-9/16T	1.662	0.365	45	CAT	See 22-1818-1
22-1812-2	1.812	1.8120	1-9/16T	1.662	3/8	45	CAT	See 22-1818-2
22-1812-3	1.812	1.8120	1.540T	1.610	0.365	30	CAT	See 22-1817-3
22-1812-4	1.812	1.8120	1.520		0.197	30	CUM	005,010,020,030
22-1812-5	1.812	1.8120	1.520		0.225	30	CUM	010
22-1812-7	1.812	1.8120	1.535		0.365	45	CAT	005,010,020,030
22-1812-8	1.812	1.8120	1.530T	1.580	0.365	30	CAT	
22-1812-9	1.812	1.8125	1.430		0.186	30	CUM	005,010,020
22-1813-1	1.813	1.8130	1.540		0.3150	20	CAT	010,020
22-1814-1	1.814	1.8140	1.600		0.315	45	ALL	
22-1814-4S	1.814	1.8140	1.550		0.240	45	CAT	
22-1815-1	1.815	1.8150	1.595		1/4	45	FDI, FOR	
22-1817-3	1.817	1.8170	1.540T	1.610	0.365	30	CAT	010,020,030,040
20-1812-1	1-13/16	1.8175	1-9/16		1/4	45	UNIVERSAL	020
20-1812-2	1-13/16	1.8175	1-1/2		7/32	45	UNIVERSAL	
20-1812-21N	1-13/16	1.8175	1-15/32		5/16	45	"N" SERIES	
20-1812-3	1-13/16	1.8175	1.500T	1-5/8	7/32	45	UNIVERSAL	
20-1812-4	1-13/16	1.8175	1-9/16		7/32	45	UNIVERSAL	
20-1812-4N	1-13/16	1.8175	1-9/16		7/32	45	"N" SERIES	
20-1812-5	1-13/16	1.8175	1-1/2		1/4	45	UNIVERSAL	030
20-1812-5N	1-13/16	1.8175	1-1/2		1/4	45	"N" SERIES	
20-1812-7	1-13/16	1.8175	1-7/16		1/4	45	UNIVERSAL	
20-1812-9N	1-13/16	1.8175	1-1/2		5/16	45	"N" SERIES	
22-1818-1	1.818	1.8180	1-9/16T	1.662	0.365	45	CAT	010,020,030
22-1818-2	1.818	1.8180	1-9/16T	1.662	3/8	45	CAT	010,020
21-1812-50	1-13/16	1.8195	1.490T	1.588	0.307	45	KIA, MAI, MAZ, NIS	
21-1812-56	1-13/16	1.8195	1.535		0.293	45	FOR, NII, NIS	
22-1819-1	1.819	1.8195	1.571T	1.6665	0.283	30	DDA	005,010,020,030
22-1819-2	1.819	1.8195	1.500T		0.268	20	DDA	
22-1823-1	1.823	1.8230	1.560T	1.569	0.273	30	IHC, IHN	
22-1831-1	1.8315	1.8315	1.555		0.280	30	MAC	005,015,030
22-1831-2	1.831	1.8315	1.550		0.253	20	MAC	005,015,030
22-1831-3N	1.8315	1.8315	1.555		0.280	20	MAC	
22-1832-1	1.832	1.8320	1.510T	1.585	0.241	30	JDR	
22-1834-1	1.8349	1.8349	1.516T	1.618	0.301	30	HIN	005,010,020,030
22-1841-1	1.8415	1.8415	1.560		0.251	20	MAC	
22-1847-1	1.8465	1.8465	1-9/16		9/32	30	CUM	
22-1853-1	1.853	1.8530	1.498T	1.700	0.273	30	CAS, CHC, CUM, GM	
22-1853-2	1.853	1.8530	1.495T	1.566	0.271	20	CUM	
22-1854-1	1.8545	1.8545	1.610T	1.680	0.277	45	IDI	
22-1854-2	1.8545	1.8545	1.609T	1.705	0.277	45	IDI	
22-1857-2	1.855	1.8545	1.573T	1.617	0.229	20	CUM	
22-1856-1	1.856	1.8560	1.550T		0.257	30	JDR	
22-1857-1	1.857	1.8570	1.575T	1.660	0.229	45	CUM	
22-1857-3	1.857	1.8570	1.575T	1.660	0.250	45	CUM	
22-1858-1N	1.858	1.8580	1.608		0.209	30	JDR	010,020
22-1874-2	1.874	1.8740	1.555T	1.725	0.238	45	CUM	
20-1875-1	1-7/8	1.8800	1-5/8		1/4	45	UNIVERSAL	010,020,030
20-1875-11	1-7/8	1.8800	1-9/16		5/16	45	UNIVERSAL	
20-1875-19	1-7/8	1.8800	1-9/16		7/32	45	UNIVERSAL	
20-1875-1N	1-7/8	1.8800	1-5/8		1/4	45	"N" SERIES	

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# VALVE SEAT INSERT LISTING BY EXACT O.D.

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
20-1875-2	1-7/8	1.8800	1-9/16		1/4	45	UNIVERSAL	
20-1875-38	1-7/8	1.8800	1-5/8		3/16	45	UNIVERSAL	
20-1875-6	1-7/8	1.8800	1-5/8		7/32	45	UNIVERSAL	
20-1875-7	1-7/8	1.8800	1-19/32		1/4	45	UNIVERSAL	005,010,020
20-1875-8	1-7/8	1.8800	1-1/2T	1-5/8	7/32	45	UNIVERSAL	
22-1880-1	1.880	1.8800	1-13/32		7/32	45	PER	
22-1880-2	1.880	1.8800	1-9/16T	1.625	7/16	30	CAT	010,020,030
21-1875-51	1-7/8	1.8820	1.575T	1.692	0.317	45	CHC, HYU, MAZ, MDI, MIT	
22-1885-1	1.885	1.8850	1.575		0.333	30	KOM	
22-1891-1	1.891	1.8910	1.615	1.6370	0.3060	30	CAT	
22-1894-2	1.894	1.8940	1.575T	1.705	0.256	45	IDI	
22-1894-3	1.894	1.8940	1.575T	1.692	0.375	45	IDI	
22-1894-1	1.894	1.8945	1.570T	1.660	0.292	30	GDI, GM, IDI, ISU	
22-1899-1	1.8985	1.8985	1-17/32	1.600	0.275	30	DDA	020,030
22-1900-1	1.900	1.9000	1.650		0.300	45	FTA	
22-1900-2	1.900	1.9000	1.645		0.250	45	FTA	010,020,030
22-1900-3	1.900	1.9000	1.650		0.220	30	FTA	010,020,030
22-1912-1	1.912	1.9120	1-5/8		9/32	45	CAT	010,020,030,040
22-1919-1N	1.9195	1.9195	1.665		0.250	45	JDR	010,020
22-1933-2	1.933	1.9330	1.454T	1.778	0.241	30	JDR	010,020
21-1937-51	1-15/16	1.9420	1.540T	1.718	0.315	45	TOI, TOY	
20-1937-1	1-15/16	1.9430	1-11/16		1/4	45	UNIVERSAL	010
20-1937-12	1-15/16	1.9430	1.578T	1.720	0.203	30	DDA	
20-1937-17	1-15/16	1.9430	1-11/16		7/32	45	UNIVERSAL	
20-1937-23	1-15/16	1.9430	1-11/16		3/16	45	UNIVERSAL	
20-1937-4	1-15/16	1.9430	1-9/16		1/4	45	UNIVERSAL	
22-1946-1N	1.9465	1.9465	1.574		0.315	45	CAS	010,020,030
22-1951-1	1.951	1.9515	1.510T	1.642	0.290	20	JDR	010
22-1953-2S	1.9535	1.9535	1.640T	1.670	0.215	45	CUM	
22-1953-3	1.954	1.9535	1.640T	1.828	0.195	20	CUM	005,010
22-1957-1	1.957	1.9570	1.563T	1.658	0.313	30	IHN	
22-1962-1N	1.962	1.9620	1.595T	1.730	0.365	30	FDI, FOR	030
22-1969-3	1.969	1.9690	1.704		0.234	30	CAT	
22-1969-4N	1.969	1.9690	1.656	1.728	0.248	45	CAT	
22-1973-1	1.973	1.9730	1.658T	1.875	0.300	45	IHN	015,030
22-1973-2	1.973	1.9730	1.730		0.256	45	IDI	
22-1973-3	1.973	1.9730	1.692T	1.820	0.394	45	IDI	
22-1991-1N	1.9910	1.9910	1.616		0.309	45	JDR	010
22-1999-1	1.999	1.9990	1.712T	1.767	0.386	30	IHC, IHN	
22-2001-1	2.001	2.0010	1.712T	1.870	0.385	30	IHC	010,013,020,030
22-2001-2	2.001	2.0010	1.712T	1.870	0.355	30	IHN	
22-2003-1	2.003	2.0030	1-11/16		9/32	30	CUM	See 22-2006-1
22-2003-1N	2.003	2.0030	1-11/16		9/32	30	CUM	See 22-2006-1N
22-2003-3N	2.003	2.0030	1-11/16		0.234	30	CUM	See 22-2006-3N
22-2003-6N	2.003	2.0030	1.625		0.280	45	CUM	
22-2004-2	2.004	2.0035	1-11/16	1.748	7/16	30	CAT	See 22-2006-2
22-2004-3N	2.004	2.0040	1.685T	1.735	0.317	30	CAT	005,010,020,030
22-2004-4N	2.004	2.0040	1.688		0.438	30	CAT	
20-2000-1	2	2.0055	1-3/4		7/32	45	UNIVERSAL	020
20-2000-10	2	2.0055	1-9/16		1/4	45	UNIVERSAL	
20-2000-13	2	2.0055	1-5/8		1/4	45	UNIVERSAL	005,010
20-2000-14	2	2.0055	1-5/8		5/16	45	UNIVERSAL	
20-2000-18	2	2.0055	1-3/4		5/16	45	UNIVERSAL	
20-2000-2	2	2.0055	1-11/16		9/32	45	HAR, IHC	
20-2000-22	2	2.0055	1-3/4		5/32	45	UNIVERSAL	
20-2000-3	2	2.0055	1-5/8		19/64	45	CON	
20-2000-36	2	2.0055	1-3/4		3/16	45	UNIVERSAL	
20-2000-3N	2	2.0055	1-5/8		19/64	45	"N" SERIES	
22-2006-2	2.006	2.0055	1-11/16	1.748	7/16	30	CAT	010,020,030,040
22-2006-1	2.006	2.0060	1-11/16		9/32	30	CUM	005,010,020,030,040
22-2006-1N	2.006	2.0060	1-11/16		9/32	30	CUM	005,010,020,030,040
22-2006-3N	2.006	2.0060	1-11/16		0.234	30	CUM	020,030
22-2006-5	2.006	2.0060	1.690		0.214	30	CUM	005,010,020,030,040

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# VALVE SEAT INSERT LISTING BY EXACT O.D.

QC #	Nominal O.D.	Exact O.D.	I.D.	I.D. Top Taper	Depth	Seat Angle	Application	Oversizes Available
22-2006-6S	2.006	2.0060	1.630		0.280	45	CUM	
22-2006-7S	2.006	2.0060	1.690		0.215	30	CUM	
22-2013-1	2.013	2.0130	1.770T	1.801	0.288	45	GDI, GM, IDI, ISU	
22-2015-1	2.015	2.0150	1-53/64		3/16	45	IHC, IHN	
22-2018-1	2.018	2.0180	1-19/32		9/32	45	ALL, PER	
22-2049-1	2.049	2.0485	1-25/32	1.827	11/32	30	CAT	005,010,020,030
22-2051-1	2.051	2.0510	1.615T	1.710	0.359	30	HIN	
22-2051-2	2.051	2.0510	1.632T	1.737	0.299	30	HIN	
22-2051-4	2.051	2.0510	1.744T	1.957	0.241	30	JDR	010,020
22-2052-1	2.052	2.0520	1.809		0.256	45	IDI	
20-2062-29	2-1/16	2.0680	1-13/16		7/32	45	UNIVERSAL	
20-2062-30	2-1/16	2.0680	1-13/16		3/16	45	UNIVERSAL	
20-2062-8	2-1/16	2.0680	1-11/16		9/32	45	UNIVERSAL	
22-2088-1	2.088	2.0880	1.692		0.299	30	MAC	005,010,015,020,030,043,062
22-2100-1	2.100	2.1000	1.782		0.267	30	CAS	010,020,030
22-2107-1	2.107	2.1074	1.8091	1.9843	0.2155	30	GDI	
22-2126-2	2.126	2.1265	1.751T	1.817	0.3220	20	CUM	
22-2129-1	2.129	2.1290	1-13/16	1.863	7/16	30	CAT	See 22-2131-1
22-2129-2	2.129	2.1290	1.752T	1.868	0.306	30	CUM	
20-2125-1	2-1/8	2.1305	1-13/16		1/4	45	UNIVERSAL	
20-2125-10	2-1/8	2.1305	1-3/4		9/32	45	UNIVERSAL	
20-2125-3	2-1/8	2.1305	1-15/16		3/16	45	IHC, IHN	
20-2125-34	2-1/8	2.1305	1-7/8		7/32	45	UNIVERSAL	
20-2125-38	2-1/8	2.1305	1-13/16		3/16	45	GDI, GM	
22-2131-1	2.131	2.1310	1-13/16	1.863	7/16	30	CAT	010,020,030,040
22-2136-1N	2.1360	2.1360	1.705T	1.785	0.319	45	JDR	010,020
22-2150-1	2.150	2.1500	1-55/64		0.292	30	CAT	010,020,030
22-2169-1	2.1695	2.1695	1.777T	1.995	0.350	45	HIN	
20-2187-13	2-3/16	2.1930	1-11/16		9/32	45	UNIVERSAL	
20-2187-1S	2-3/16	2.1930	1-13/16		1/4	45	MIN	010,062
20-2187-2	2-3/16	2.1930	1-13/16		9/32	45	UNIVERSAL	
20-2187-4	2-3/16	2.1930	1-7/8		9/32	45	UNIVERSAL	
22-2212-1N	2.2125	2.2125	1.960		0.250	45	JDR	010,020
22-2220-1	2.220	2.2200	1.843		0.312	45	FDI, FOR	020
22-2247-1	2.2475	2.2475	1.895		0.353	45	KOM	
20-2250-1	2-1/4	2.2555	1-15/16		3/16	45	UNIVERSAL	010
20-2250-8	2-1/4	2.2555	1-13/16		1/4	45	UNIVERSAL	
20-H1759	2-1/4	2.2560	1.9375		0.1875	45	FDI, FOR	
20-2312-9	2-5/16	2.3180	2.000		1/4	45	GDI, GM	
22-2366-1	2.3665	2.3665	2.010		0.353	30	KOM	
22-2366-2N	2.3665	2.3665	1.977		0.392	45	CAT	
22-2367-1	2.367	2.3670	2.045		0.382	30	CAT	
22-2368-2N	2.368	2.3680	1.890		0.460	20	CAT	
22-2368-3N	2.368	2.3680	1.870		0.460	20	CAT	
20-2375-1	2-3/8	2.3805	2.000		3/16	45	UNIVERSAL	
20-2375-2	2-3/8	2.3805	2.000		9/32	45	UNIVERSAL	
22-2381-1	2.381	2.3810	1.930		0.323	30	CUM	010,020
22-2381-1S	2.381	2.3810	1.930		0.323	30	CUM	
22-2381-2	2.381	2.3810	2.030		0.323	30	CUM	010,020
22-2381-2S	2.381	2.3810	2.030		0.323	30	CUM	
22-2387-1	2.387	2.3870	1.970		0.382	30	CAT	
22-2387-2	2.3875	2.3875	1.890		0.361	20	CAT	
22-2388-1N	2.388	2.3880	1.890T	1.932	0.4600	20	CAT	
22-2405-1	2.405	2.4050	1.973T	2.080	0.390	30	HIN	
22-2435-1	2.435	2.4350	2-1/8T	2.207	5/8	30	CAT	010,020,030,040
22-2435-2N	2.435	2.4350	2-1/8		0.625	30	CAT	
22-2441-1	62mm	2.4410	1.969		0.453	45	METRIC UNIVERSAL	
22-2503-1	2.503	2.5030	2.000		1/2	45	CAT	See 22-2506-1
22-2503-2	2.503	2.5030	2-1/16T	2.160	1/2	45	CAT	See 22-2506-2
22-2506-1	2.506	2.5060	2.000		1/2	45	CAT	010,020,030,040
22-2506-2	2.506	2.5060	2-1/16T	2.160	1/2	45	CAT	010,020,030,040
20-2562-1	2-9/16	2.5685	2-3/16		1/4	30	MIN	
22-2590-1	2.590	2.5900	2-9/32T	2.360	5/8	30	CAT	010,020,030,040

S Suffix Denotes Cobalt Based Alloy

N Suffix Denotes Nickel Based Alloy

# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
<b>Material: CAST IRON</b>						30-1858	0.3750	0.6900	3.344	8-P	JDR
30-1337	0.3445	0.6575	2.813	11-P	CHI, CHM, CHC	30-1859	0.3750	0.6900	2.797	9-P	JDR
30-1338	0.3425	0.6575	2.813	11-P	CHI, CHM, CHC	30-1860	0.3437	0.6277	2.375	8-P	JDR
30-1421	0.3750	0.6895	2.750	8-P	ALL	30-1865	0.4050	0.7520	3.219	8-P	CAS
30-1458	0.3135	0.5018	2.500	1-P	CAS, WAU	30-1872	0.3427	0.6575	2.438	8-P	CAS
30-1470	0.3749	0.6575	2.750	3-P	CON	30-1873	0.3427	0.6575	2.844	14-P	CAS
30-1487	0.4065	0.7520	3.313	11-P	CON, MAC	30-1874	0.3440	0.6575	3.125	8-P	CAS
30-1515	0.3427	0.6575	2.563	11-P	CAS, CHC, CON, MAC	30-1875	0.3440	0.6575	3.250	13-P	CAS
30-1533	0.4055	0.7520	2.875	11-P	CON, MAC	30-1881	0.3745	0.6265	2.844	1-P	IHC, IHN
30-1543	0.3435	0.5650	2.688	25-P	IHC	30-1888	0.4405	0.8140	4.250	23-P	CAT
30-1545N	0.3430	0.5955	2.938	8-P	IHC	30-1891	0.3435	0.6263	2.310	25-P	MIN
30-1547N	0.3745	0.6895	3.219	8-P	IHC	30-1896	0.3440	0.6277	2.859	8-P	JDR
30-1568	0.3120	0.4859	2.094	8-P	MIN	30-1897	0.3745	0.6255	2.938	11-P	JDR
30-1577	0.3130	0.5645	2.750	11-P	CAS	30-1898	0.3750	0.6255	3.313	11-P	JDR
30-1578	0.4050	0.7520	3.970	1-P	IHC	30-1899	0.3440	0.6277	2.969	8-P	JDR
30-1579	0.3740	0.6890	3.750	1-P	IHC	30-1906N	0.3771	0.6579	3.220	16-P	CAT
30-1592	0.5005	0.8770	4.313	26-SR	WAU	30-1907	0.3135	0.4390	1.813	1-SR	WIS
30-1593	0.4995	0.8770	5.438	26-P	WAU	30-1908	0.3135	0.4385	2.500	1-P	WIS
30-1600	0.4390	0.8780	3.875	8-P	JDR	30-1909	0.3135	0.4385	2.064	1-P	WIS
30-1609	0.4370	0.6570	2.188	3-P	CHC	30-1914	0.4370	0.7515	3.125	24-P	MIN
30-1614	0.3435	1.0305	2.210	36-P	FOR, FTA	30-1923	0.3745	0.6258	2.938	1-SR	MIN
30-1618	0.3745	0.6578	2.375	8-P	HER	30-1924	0.3745	0.6260	2.250	1-SR	MIN
30-1619	0.3163	0.5645	2.281	11-P	CON	30-1927	0.3745	0.6260	2.625	1-SR	MIN, WAU
30-1636	0.3120	0.6265	1.500	8-P	IHC	30-1932	0.5640	1.0030	5.375	11-P	JDR
30-1644	0.5010	0.8785	4.750	11-P	JDR	30-1936	0.4385	0.6910	2.813	8-P	IHN
30-1673	0.3434	0.6573	2.688	8-P	CAS	30-1940	0.3743	0.6910	3.270	8-SR	IHN
30-1678	0.3161	0.5645	1.658	8-P	ALL, CON	30-1941	0.4525	0.7520	3.010	7-SR	CUM
30-1680	0.3450	0.5639	3.250	1-SR	DDA	30-1942	0.4530	0.7520	3.400	3-SR	CUM
30-1696	0.4385	0.6910	3.062	8-P	IHN	30-1943	0.3445	0.5645	2.250	9-P	ALL
30-1697	0.3120	0.5328	2.093	11-P	MIN	30-1944	0.3445	0.5640	2.125	9-P	ALL
30-1701	0.4365	0.7520	2.875	8-P	CAS, CON	30-1946	0.3130	0.5000	2.381	11-SR	DDA
30-1703	0.3125	0.5640	2.563	8-P	ALL	30-1947	0.3745	0.6265	2.500	1-SR	WAU
30-1711	0.4405	0.8135	4.250	24-P	CAT	30-1951	0.3745	0.6260	2.781	1-SR	MIN
30-1717	0.3170	0.5640	1.813	1-SR	CON	30-1952	0.3745	0.6260	2.406	8-SR	WAU
30-1723	0.3115	0.5018	2.500	8-P	WIS	30-1953	0.3745	0.6260	2.313	1-SR	MIN, WAU
30-1726	0.3440	0.7515	2.547	3-P	FDI, FTA	30-1954	0.3745	0.6260	3.188	1-SR	WAU
30-1727	0.4050	0.7515	3.750	2-P	IHN	30-1956	0.3150	0.5025	2.438	1-P	PER
30-1740	0.3745	0.6895	2.813	1-P	CHC, CHI	30-1957	0.4375	0.6890	3.172	8-SR	IHC
30-1747	0.3760	0.6270	2.440	8-P	IHC, IHN	30-1962	0.3440	0.6575	2.375	8-P	CON
30-1800	0.4995	0.8140	3.656	1-SR	CUM	30-1963	0.3435	0.5640	3.250	13-P	IHN
30-1803	0.3745	0.6895	2.938	13-P	CHC, CHI	30-1964	0.3440	0.5640	3.000	13-P	IHN
30-1804	0.3440	0.5645	2.656	1-P	IHC	30-1965	0.3745	0.6260	3.500	3-P	WAU
30-1809	0.5000	0.6886	3.500	9-P	MAC	30-1966	0.3440	0.7510	2.938	3-P	FDI, FTA
30-1810	0.5015	0.6886	3.500	9-P	MAC	30-1967	0.4385	0.7835	3.188	8-P	JDR
30-1813	0.4380	0.8140	3.125	13-P	CAS	30-1968	0.4190	0.6890	2.906	8-P	IHC
30-1814	0.4380	0.8140	3.438	12-P	CAS	30-1969	0.4042	0.7520	3.438	3-SR	CUM
30-1816	0.4385	0.6920	3.250	33-P	IHN	30-1970	0.3433	0.6575	2.719	9-P	CON
30-1817	0.4385	0.6265	3.063	8-P	IHN	30-1976	0.3755	0.6265	2.281	8-P	ALL, PER
30-1823	0.3430	0.5635	2.820	1-SR	CUM	30-1977	0.3755	0.6265	2.406	8-P	ALL, PER
30-1829	0.4050	0.7520	4.375	11-P	CAS	30-3000	0.2770	0.4390	1.660	1-SR	NII
30-1830	0.4050	0.7520	3.594	11-P	CAS	30-3001	0.2770	0.4390	1.990	1-SR	NII
30-1832	0.3130	0.5000	2.500	1-SR	DDA	30-3006	0.3745	0.6265	2.395	3-P	IHN
30-1833	0.3432	0.6575	1.813	1-SR	CAS	30-3007	0.3745	0.6295	3.358	7-SR	CAT
30-1836	0.3765	0.6890	2.906	8-P	IHC, IHN	30-3007+2	0.3745	0.6319	3.358	7-SR	CAT
30-1839	0.4385	0.6890	3.090	1-P	CHI, CHC	30-3007+5	0.3745	0.6348	3.358	7-SR	CAT
30-1840	0.3745	0.6890	3.280	12-P	CHI, CHC	30-3008	0.3819	0.6506	3.374	8-SR	CUM
30-1843	0.3745	0.6270	2.938	8-P	HER	30-3014	0.3740	0.6890	3.050	7-SR	CAT
30-1851	0.3130	0.5640	2.250	8-P	ALL	30-3021	0.2776	0.5015	1.937	21-SR	CHC, CUM
30-1852	0.3130	0.5640	2.656	8-P	ALL	30-3022	0.2776	0.5015	2.018	21-SR	CHC, CUM
30-1853	0.3750	0.6890	2.344	1-P	ALL	30-3024	0.3735	0.6203	2.620	9-SR	GDI, GM
30-1854	0.3445	0.5665	2.250	1-SR	ALL	30-3025	0.3735	0.6265	2.250	9-SR	GDI, GM
30-1857	0.5015	0.7525	3.875	9-P	JDR	30-3027	0.3750	0.7833	3.189	1-SR	JDR
						30-3033	0.2776	0.5015	1.937	21-SR	CHC

P = Plain (Smooth) I.D.    SR = Spiral Reamed I.D.

-H Suffix Denotes Hardened Guide



# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
30-3034	0.2776	0.5015	2.020	21-SR	CHC	30-6730	0.3739	0.6265	2.880	13-SR	ALL
30-3035	0.3715	0.6883	4.050	8-SR	CAT	30-6758	0.4379	0.7515	3.900	11-SR	ALL
30-3036	0.3715	0.6885	4.050	8-SR	CAT	30-6759	0.3746	0.6265	3.500	11-SR	ALL
30-3037	0.3743	0.6580	2.780	7-SR	CAT	30-6760	0.3739	0.6265	3.500	11-SR	ALL
30-3038	0.3178	0.5130	3.175	12-SR	CAT	30-6862	0.3145	0.5965	3.030	24-P	CAT
30-3039	0.3740	0.6299	3.350	12-SR	CAT	30-6881	0.3140	0.5660	3.031	1-P	CAT
30-3042	0.4977	0.6886	4.055	1-SR	CAT	30-6881+2	0.3140	0.5680	3.031	1-P	CAT
30-3043	0.3750	0.6884	3.110	6-SR	MAC	30-6905	0.3750	0.6270	3.969	1-SR	Conversion
30-3049	0.2755	0.4547	1.967	4-P	GDI, GM	30-6907	0.3755	0.6265	3.000	10-P	FTA
30-3050	0.3570	0.5905	3.355	1-SR	JDR	30-6913	0.4375	0.6890	3.438	1-SR	IHN
30-3051	0.3740	0.6890	3.730	8-SR	CAT	30-6914	0.4375	0.6890	3.695	1-SR	IHC, IHN
30-3052	0.3740	0.6890	4.130	8-SR	CAT	30-6990	0.3760	0.6270	2.240	8-P	IHC
30-3054	0.3547	0.5526	2.365	1-P	GDI, GM, IDI, ISU	30-7073	0.3745	0.8780	5.450	8-SR	CAT
30-3055	0.2765	0.4395	2.331	21-P	FDI, FOR, IHN	30-7073+2	0.3745	0.8800	5.450	8-SR	CAT
30-3058	0.3745	0.6298	3.155	7-SR	CAT	30-7073H	0.3745	0.8780	5.450	8-SR	CAT
30-3059	0.3543	0.5140	2.017	2-P	PER	30-7073H+5	0.3745	0.8830	5.450	8-SR	CAT
30-3060	0.3550	0.5520	2.015	2-P	PER	30-7074H	0.3745	0.8780	5.065	8-SR	CAT
30-3061	0.3821	0.6504	4.106	7-SR	CUM	30-7074H+2	0.3745	0.8800	5.065	8-SR	CAT
30-3068	0.3761	0.6297	2.835	1-P	CUM	30-7074H+5	0.3745	0.8830	5.065	8-SR	CAT
30-3071	0.3550	0.5920	2.835	5-P	MBT	30-7083	0.5020	0.8771	5.045	8-P	CAT
30-3072	0.3940	0.5920	2.640	5-P	MBT	30-7174	0.3745	0.6252	2.600	3-P	IHN
30-3079	0.3140	0.5655	2.585	1-P	IHN	30-7194	0.3750	0.6580	2.781	1-SR	CAT
30-3080	0.2775	0.4395	1.937	1-SR	CHC, CUM	30-7194+2	0.3750	0.6600	2.781	1-SR	CAT
30-3081	0.2775	0.4395	2.020	1-SR	CHC, CUM	30-7194+5	0.3750	0.6630	2.781	1-SR	CAT
30-3101	0.3150	0.5526	2.245	11-P	GM,ISU	30-7216	0.3750	0.6890	3.250	2-SR	CAT
30-3105	0.2752	0.474	1.790	2-P	PER	30-7216+2	0.3750	0.6910	3.250	2-SR	CAT
30-3123	0.318	0.5135	3.155	7-SR	CAT	30-7216U	0.3740	0.6890	3.250	2-SR	CAT
30-3131	0.3162	0.5335	2.465	1-SR	JDR	30-7242	0.3750	0.6585	3.180	13-SR	CAT
30-3139	0.3730	0.6890	4.055	8-SR	CAT	30-7248	0.3750	0.5640	2.750	1-SR	Conversion, JDR
30-3140	0.3730	0.6890	3.620	1-SR	CAT	30-7255	0.3750	0.6892	2.815	13-SR	CAT
30-3141	0.2777	0.502	2.347	8-SR	JDR	30-7255+2	0.3750	0.6912	2.815	13-SR	CAT
30-3142	0.2755	0.4547	1.967	1-P	GDI, GM	30-7264	0.4530	0.7620	3.400	4-SR	CUM
30-3157	0.3157	0.5905	3.285	8-P	MAC, VOV	30-7336	0.3753	0.6890	2.960	8-SR	IHN
30-3158	0.4528	0.7518	3.167	8-SR	CUM	30-7337	0.4370	0.6890	3.090	1-SR	CHI
30-3163	0.2764	0.4725	2.150	1-P	FDI, FOR	30-7338	0.5010	0.9385	5.219	8-P	CAT
30-3203	0.3755	0.6270	2.600	8-P	PER	30-7357	0.5020	0.8771	5.438	8-P	CAT
30-3205	0.3150	0.5906	2.283	2-P	DEU	30-7357+2	0.5020	0.8791	5.438	8-P	CAT
30-3255	0.2750	0.4940	1.476	8-P	CHC, MER, MBT	30-7371	0.4365	0.7510	3.000	26-SR	MIN
30-3257	0.3145	0.502	2.440	21-SR	FOR, IHN	30-7372	0.4990	0.8140	3.500	26-SR	MIN
30-3276	0.316	0.552	2.365	8-P	MBT	30-7373	0.4972	0.8461	3.585	7-SR	CUM
30-3278	0.3157	0.5905	3.285	8-P	MAC, VOH	30-7398	0.3745	0.6260	2.406	1-SR	WAU
30-3287					DDC	30-7408	0.3120	0.6265	1.340	8-P	IHC
30-3N1414	0.7850	1.2650	0.500	1-P	CAT	30-7410	0.3745	0.6890	2.781	8-P	IHN
30-4941	0.3120	0.5645	2.063	2-P	IHC	30-7420	0.4370	0.7510	3.875	24-P	MIN
30-4944	0.3120	0.6270	2.688	2-P	IHN	30-7421	0.4370	0.7510	4.375	26-P	MIN
30-5745	0.3730	0.6270	3.500	8-SR	ALL	30-7425	0.4977	0.8461	3.785	10-SR	CUM
30-6053	0.3435	0.4695	2.125	21-SR	WIS	30-7431	0.3745	0.6265	2.750	3-SR	IHC
30-6105	0.3440	0.5020	2.500	1-P	Conversion	30-7431+2	0.3745	0.6285	2.750	3-SR	IHN
30-6169	0.3812	0.6268	2.500	2-SR	CUM	30-7431U	0.3735	0.6265	2.750	3-SR	IHC
30-6201	0.6245	1.0025	5.188	1-SR	WAU	30-7432	0.3440	0.5960	2.625	8-P	IHN
30-6202	0.6245	1.0025	6.000	1-SR	WAU	30-7444	0.4050	0.7515	3.219	11-P	CAS
30-6254	0.2510	0.5000	2.360	11-SR	DDA	30-7447	0.3740	0.5640	2.625	1-SR	Conversion, CAT
30-6254+10	0.2510	0.5100	2.360	11-SR	DDA	30-7448	0.3750	0.5640	3.000	1-SR	Conversion, CAT
30-6254+2	0.2510	0.5020	2.360	11-SR	DDA	30-7450	0.3750	0.6270	2.650	26-P	PER
30-6254+3	0.2510	0.5030	2.360	11-SR	DDA	30-7456	0.4385	0.6890	3.060	1-SR	IHN
30-6254+5	0.2510	0.5050	2.360	11-SR	DDA	30-7457	0.4385	0.6890	3.090	1-P	IHN
30-6452	0.4528	0.7520	3.195	7-SR	CUM	30-7476	0.5005	0.8770	4.325	8-SR	WAU
30-6469	0.5020	0.9390	5.250	25-P	CAT	30-7490	0.5005	0.8770	4.281	25-SR	WAU
30-6470	0.5005	0.9386	5.250	25-P	CAT	30-7495	0.3440	0.5650	1.870	3-SR	NII
30-6546	0.3755	0.7100	3.150	11-SR	DDA	30-7498	0.3445	0.5850	2.200	1-SR	NII
30-6587	0.3135	0.4390	2.500	1-SR	Conversion	30-7527	0.3160	0.5640	2.360	8-SR	TOI, TOY
30-6628	0.3739	0.6265	3.875	13-SR	ALL	30-7528	0.3160	0.5640	2.765	8-SR	TOI, TOY
30-6629	0.3747	0.6265	3.875	13-SR	ALL	30-7529	0.3160	0.5525	2.322	8-SR	TOI, TOY

P = Plain (Smooth) I.D.      SR = Spiral Reamed I.D.

-H Suffix Denotes Hardened Guide

# VALVE GUIDE NUMERICAL LISTING

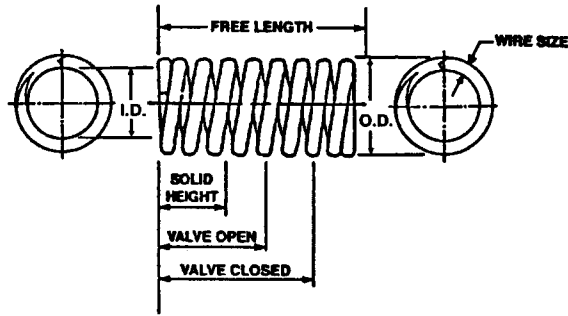
QC #	I.D.	O.D	Length	Type	Application	QC #	I.D.	O.D	Length	Type	Application
30-7532	0.3155	0.5525	2.130	5-SR	TOI, TOY	30-8159	0.4350	0.7100	3.265	29-SR	KOM
30-7538	0.3555	0.5535	2.415	1-SR	TOI, TOY	30-8160	0.4335	0.7100	3.350	1-SR	KOM
30-7542	0.3155	0.4745	1.930	2-SR	NII, NIS	30-8167	0.3819	0.6712	2.633	8-SR	CUM
30-7545	0.3160	0.4745	1.930	2-SR	NII, NIS	30-8168	0.3555	0.5540	2.200	1-SR	TOI
30-7548	0.3885	0.6330	3.040	12-P	IHC, IHN	30-8169	0.3350	0.5530	1.970	1-SR	TOI
30-7551	0.3725	0.8780	5.065	8-SR	CAT	30-8170	0.3150	0.5530	2.010	1-SR	TOI
30-7552	0.3440	0.5640	2.875	1-SR	Conversion, DDA	30-8171	0.3180	0.5920	2.520	8-SR	MAZ
30-7563	0.3435	0.6270	2.835	1-P	DDA	30-8172	0.3173	0.5533	2.177	1-SR	MAZ
30-7564	0.3435	0.6268	2.563	1-P	DDA	30-8172+2	0.3173	0.5553	2.177	1-SR	MAZ
30-7574	0.3160	0.5145	1.848	5-SR	CHC, MAZ, MII, MIT	30-8177	0.3162	0.5525	2.382	1-SR	CAS, CHC, CUM, GM
30-7574+2	0.3160	0.5165	1.848	5-SR	CHC, MAZ, MII, MIT	30-8178	0.3162	0.5525	2.037	1-SR	CAS, CHC, CUM, GM
30-7575	0.3160	0.5145	2.046	5-SR	CHC, MAZ, MII, MIT	30-8188	0.3745	0.6265	2.610	3-SR	IHC
30-7575+2	0.3160	0.5165	2.046	5-SR	CHC, MAZ, MII, MIT	30-8188U	0.3735	0.6265	2.610	3-SR	IHC
30-7576	0.3160	0.5145	1.735	5-SR	CHC, HYU, MII, MIT	30-8201	0.3160	0.5145	1.970	4-SR	TOI, TOY
30-7576+2	0.3160	0.5165	1.735	5-SR	CHC, HYU, MII, MIT	30-8202	0.3160	0.5145	2.045	4-SR	TOI, TOY
30-7577	0.3160	0.5145	1.890	5-SR	CHC, HYU, MII, MIT	30-8209	0.3155	0.4680	2.045	1-SR	NII, NIS
30-7577+2	0.3160	0.5165	1.890	5-SR	CHC, HYU, MII, MIT	30-8210	0.3819	0.6506	2.633	8-SR	CUM
30-7592	0.4940	0.6886	3.500	9-P	MAC	30-8210+2	0.3819	0.6526	2.633	8-SR	CUM
30-7604	0.3725	0.9390	5.250	8-SR	CAT	30-8220	0.3750	0.6580	3.700	8-SR	CAT
30-7604+2	0.3725	0.9410	5.250	8-SR	CAT	30-8222	0.3745	0.6252	2.600	3-P	IHN
30-7610	0.4976	0.8461	3.585	3-SR	CUM	30-8223	0.4190	0.6890	2.906	8-P	IHN
30-7625	0.3819	0.6506	2.934	10-SR	CUM	30-8224	0.4385	0.6870	3.250	33-P	IHN
30-7632	0.3745	0.6890	4.060	1-SR	CAT	30-8256	0.3740	0.6163	2.755	19-SR	GDI, GM
30-7656	0.3145	0.5530	1.970	2-P	GM, IDI, ISU	30-8277	0.3162	0.4395	2.500	1-SR	CUM
30-7681	0.3735	0.5020	2.598	1-P	Conversion, CAT	30-8319	0.3741	0.6894	3.250	9-SR	CAT
30-7682	0.3735	0.5020	3.000	1-P	Conversion, CAT	30-8346	0.3153	0.5140	2.492	4-P	CUM
30-7689	0.3745	0.6252	2.600	1-P	FDI, FOR, IHN	30-8347	0.3140	0.5160	1.890	5-SR	KUB
30-7712	0.3740	0.6270	2.600	1-P	Conversion	30-8348	0.3145	0.5160	1.850	4-SR	KUB
30-7736	0.3740	0.6890	3.250	8-SR	CAT	30-8348+2	0.3145	0.5180	1.850	4-SR	KUB
30-7813	0.3740	0.6265	2.880	13-SR	ALL	30-8356	0.3735	0.5020	3.000	1-SR	Conversion, CAT
30-7826	0.2760	0.4350	1.770	3-SR	NII, NIS	30-8357	0.3735	0.5020	2.598	1-SR	Conversion, CAT
30-7828	0.3155	0.4745	2.660	5-SR	NII, NIS	30-8399	0.3745	0.6270	2.500	30-P	LIS
30-7850	0.3155	0.5145	2.800	5-SR	CHC, FOR, HYU, MII, MIT	30-8400	0.3745	0.6270	2.500	25-P	LIS
30-7851	0.3155	0.5145	2.920	5-SR	CHC, FOR, HYU, MII, MIT	30-8407	0.3730	0.6205	2.220	33-SR	GDI, GM
30-7859	0.3755	0.6890	2.906	8-P	IHN	30-8408	0.3750	0.6580	2.775	12-SR	CAT
30-7875	0.3555	0.5535	2.341	4-P	THE	30-8409	0.3730	0.6270	2.680	1-SR	FDI, FOR
30-7876	0.3745	0.6890	2.906	8-SR	IHC, IHN	30-8420	0.3812	0.6268	2.500	4-SR	CUM
30-7886	0.5005	0.8770	4.500	26-P	WAU	30-8431	0.3425	0.7100	2.940	7-SR	DDA
30-7892	0.5550	1.0025	5.188	34-SR	WAU	30-8456	0.3765	0.6890	2.906	8-P	IHN
30-7903	0.5000	0.6886	3.500	9-SR	MAC	30-8476	0.3146	0.5650	2.440	1-P	IHN
30-7990	0.4528	0.7520	3.400	1-SR	CUM	30-8485	0.3750	0.6890	3.250	8-SR	CAT
30-7994	0.4530	0.7520	3.400	3-SR	CUM	30-8485+2	0.3750	0.6910	3.250	8-SR	CAT
30-8004	0.4375	0.7835	3.188	8-SR	JDR	30-8486	0.3750	0.6580	3.230	1-SR	CAT
30-8007	0.4313	0.6886	3.146	8-P	MAC	30-8496	0.4164	0.8459	4.000	7-SR	CUM
30-8008	0.4375	0.6886	3.146	8-SR	MAC	30-8531	0.3741	0.6583	2.781	12-P	CAT
30-8009	0.3695	0.6886	3.155	7-P	MAC	30-8531+2	0.3741	0.6603	2.781	12-P	CAT
30-8010	0.3750	0.6886	3.155	6-SR	MAC	30-8562	0.3145	0.5640	2.440	1-SR	Conversion
30-8010+2	0.3750	0.6906	3.155	6-SR	MAC	30-8590	0.3180	0.5132	2.955	13-SR	CAT
30-8011	0.5550	1.0025	5.188	14-SR	WAU	30-8590+2	0.3180	0.5134	2.955	13-SR	CAT
30-8013	0.3150	0.5020	2.250	1-P	Conversion	30-8590U	0.3179	0.5132	2.955	13-SR	CAT
30-8023	0.3548	0.5525	2.365	4-SR	IDI	30-8591	0.3455	0.5635	4.000	4-SR	DDA
30-8024	0.3935	0.6315	2.360	5-SR	IDI	30-8591U	0.3145	0.5635	4.000	4-SR	DDA
30-8105	0.4375	0.6886	3.406	8-SR	MAC	30-8592	0.3745	0.6305	2.785	11-SR	CAT
30-8113	0.3740	0.6205	2.435	18-SR	GDI, GM	30-8592+2	0.3745	0.6325	2.785	11-SR	CAT
30-8118	0.3745	0.6890	4.060	1-SR	CAT	30-8592+5	0.3745	0.6355	2.785	12-SR	CAT
30-8122	0.3761	0.6299	2.835	4-SR	CUM	30-8594	0.3750	0.6580	2.640	2-SR	CAT
30-8125	0.4335	0.7100	2.990	5-SR	IDI	30-8673	0.3120	0.5020	2.390	1-SR	JDR
30-8129	0.3154	0.5140	2.256	2-SR	CUM	30-8674	0.3120	0.5020	2.209	1-SR	JDR
30-8133	0.3755	0.7100	3.150	8-SR	DDA	30-8674U	0.3110	0.5020	2.209	1-SR	JDR
30-8134	0.3819	0.7520	3.400	8-SR	CUM	30-8679	0.3735	0.6885	4.040	8-SR	CAT
30-8136	0.3819	0.7620	3.400	8-SR	CUM	30-8715	0.3163	0.5512	1.949	1-P	CUM
						30-9105	0.3440	0.5020	2.500	1-SR	Conversion
						30-9107	0.3740	0.5020	2.250	1-SR	GDI, GM

P = Plain (Smooth) I.D.    SR = Spiral Reamed I.D.

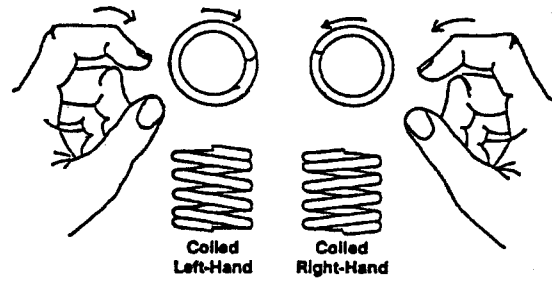
-H Suffix Denotes Hardened Guide

# VALVE GUIDE NUMERICAL LISTING

QC #	I.D.	O.D	Length	Type	Application
30-9108	0.3740	0.5020	2.375	1-SR	Conversion
30-9109	0.3740	0.5020	2.500	1-SR	FOR, FDI
30-9113	0.3745	0.5020	2.375	1-SR	Conversion
30-9115	0.3750	0.5020	2.750	1-SR	Conversion
30-9116	0.4375	0.6270	3.125	1-SR	Conversion
30-9119	0.4375	0.6270	2.500	1-SR	Conversion
30-9197	0.4375	0.6270	3.000	1-SR	Conversion
30-9260	0.3730	0.5020	2.875	1-SR	Conversion
30-9298	0.3730	0.5020	2.375	1-SR	Conversion
30-9458	0.3740	0.5020	3.063	1-SR	Conversion
30-9458H	0.374	0.502	3.063	1-SR	Conversion
30-9606	0.3440	0.5020	2.375	1-SR	Conversion
30-9606U	0.3390	0.5020	2.375	1-SR	Conversion
30-9607	0.3440	0.5020	2.250	1-SR	Conversion
30-9607H	0.344	0.502	2.250	1-SR	Conversion
30-9607U	0.3395	0.5020	2.250	1-SR	Conversion
30-9609	0.4378	0.6270	2.625	1-SR	FDI, FOR
30-9610	0.3750	0.5020	2.625	1-SR	Conversion
30-9705	0.3155	0.5020	2.000	1-SR	Conversion
30-9705+5	0.3155	0.5070	2.000	1-SR	Conversion
30-9715	0.3430	0.5020	2.125	1-SR	Conversion
30-9716	0.3730	0.5020	2.188	1-SR	Conversion
30-9867	0.3440	0.5020	2.125	1-SR	Conversion
30-9869	0.3125	0.4390	1.875	1-SR	Conversion
30-9872	0.3120	0.4390	2.281	1-SR	Conversion, CAT
30-9872U	0.3070	0.4390	2.281	1-SR	Conversion
30-9946	0.3430	0.5020	2.250	1-SR	Conversion
30-9946+2	0.3430	0.5040	2.250	1-SR	Conversion
30-9964	0.3730	0.5020	2.625	1-SR	Conversion
30-9964H	0.3730	0.502	2.625	1-SR	Conversion
30-9972	0.3740	0.6205	2.630	12-SR	GDI, GM
30-9972+3	0.3740	0.6235	2.630	12-SR	GDI, GM
30-9972H	0.374	0.621	2.630	12-SR	Conversion
30-9973	0.3735	0.6255	2.420	8-SR	GDI, GM
30-9973+10	0.3735	0.6355	2.420	8-SR	GDI, GM
30-9977	0.3120	0.5020	2.281	1-SR	Conversion
30-9977H	0.312	0.502	2.281	1-SR	Conversion
30-9977U	0.3070	0.5020	2.281	1-SR	Conversion



**Direction of Coiling Helical Compression Springs**



Illustrations Are For Reference Only And Are NOT Drawn To Scale.

**SPRING NUMERICAL LISTING**

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-219	2.387	1.275	0.192	1.446	1.062	204 @ 1.400	107 @ 1.850	6.700 LH	FDI, FOR
32-220	2.563	1.656	0.192	1.500	1.116	54-58 @ 2.1562	133-141 @ 1.706	8.625 RH	IHC, IHN
32-221	2.344	1.460	0.142	1.070	0.794	33-37 @ 1.953	83-88 @ 1503	10.25 RH	IHC, IHN
32-00276	2.235	1.350	0.192	1.325	0.942	59 @ 2.000	180 @ 1.550	7.100 RH	CUM
32-414	2.313	1.110	0.148	1.296	1.000/1.020	37-43 @ 1.8125	65-75 @ 1.4375	7.50 RH	ALL
32-415	2.016	1.281	0.162	1.144	0.820/0.850	40-45 @ 1.750	110-120 @ 1.375	8.125 RH	CAT
32-448	2.500	1.560	0.135	0.973	0.703	37-40 @ 2.100	76-80 @ 1.700	11.500 R	FTA
32-454	2.375	1.550	0.177	1.140	0.770	45-55 @ 2.1562	141.5-150.5 @ 1.766	8.750 RH	DDA
32-466	1.969	1.250	0.156	1.130	0.818/0.838	47-53 @ 1.6562	103-110 @ 1.375	8.000 RH	CAS, CON, MAC
32-467	3.543	1.964	0.185	1.576	1.201	63 @ 2.719	138 @ 2.154	11.000 R	MAC
32-480	2.375	1.344	0.162	1.292	0.958/0.978	58-64 @ 1.875	115-123 @ 1.521	8.250 RH	CAS, CON
32-495	2.063	1.313	0.142	0.969	0.685	47-53 @ 1.7031	96-104 @ 1.4219	9.00 RH	CAS, CON
32-497	2.313	1.280	0.128	0.969	0.713	30-33 @ 1.9375	63-69 @ 1.625	10.00 RH	FTA
32-500	2.813	1.320	0.125	1.031	0.781	42-46 @ 2.000	58-64 @ 1.750	10.500 R	WAU
32-502	2.060	0.910	0.092	0.844	0.660	16 @ 1.50	32 @ 1.000	9.75 LH	IHC
32-518	2.313	1.188	0.121	1.067	0.825/0.845	32.5-37.5 @ 1.550	45.5-50.5 @ 1.270	9.50 LH	WIS
32-520	1.750	0.800	0.100	0.872	0.672	18-22 @ 1.375	39 @ 1.125	8.000 RH	CON
32-535	2.120	1.335	0.177	1.322	0.968/0.984	54-62 @ 1.821	124.140 @ 1.505	7.63 LH	FTA
32-543	2.578	1.458	0.162	1.354	1.020/1.040	52.5-58.5 @ 1.978	102.5-110.5 @ 1.541	9.00 RH	IHC, IHN
32-554	2.281	1.280	0.135	0.977	0.727/0.747	28.5-31.5 @ 1.945	81-89 @ 1.396	9.500 RH	IHC, IHN
32-602	1.969	1.190	0.148	1.109	0.813	51.5-56.5 @ 1.546	85-94 @ 1.271	8.000 RH	WIS
32-611	2.090	1.300	0.177	1.364	1.000/1.020	71-79 @ 1.780	161-177 @ 1.390	7.000 LH	FOR, FDI, FTA
32-646	2.266	1.360	0.177	1.261	0.907/0.927	71-79 @ 1.867	142.5-157.5 @ 1.477	7.63 LH	IHC, IHN
32-672	2.000	1.203	0.192	1.394/1.414	1.010/1.030	78-88 @ 1.687	172-184 @ 1.3125	6.250 LH	CHC, CHI
32-677-D	2.300	1.250	0.188	1.438	1.052/1.072	94-104 @ 1.820	179.5-198.5 @ 1.42	6.500 LH	FDI, FOR
32-681	3.160	1.700	0.148	1.155	0.820	66-74 @ 2.250	104-114 @ 1.765	11.500 R	CUM
32-695	3.031	1.813	0.142	1.068/1.088	0.784/0.804	36.1-39.1 @ 2.531	86-95 @ 2.0312	13.000 R	MAC
32-726	2.438	1.370	0.177	1.281	0.927	121-129 @ 1.742	145.156 @ 1.592	7.750 RH	IHC, IHN
32-757	2.125	1.240	0.177	1.375	1.021	52-64 @ 1.8125	129-157 @ 1.3594	7.000 RH	JDR
32-758	2.125	0.995	0.142	1.125	0.841	52-57 @ 1.656	103-110 @ 1.256	7.000 RH	JDR
32-762	2.188	1.220	0.162	1.294	0.970/0.990	53-59 @ 1.686	110-118 @ 1.332	7.750 RH	CAS, CON
32-763	2.641	1.350	0.142	1.297	1.013	35-39 @ 1.937	64-72 @ 1.546	9.50 RH	CAS
32-769	1.970	1.300	0.148	0.941	0.655	35 @ 1.800	115 @ 1.397	8.800 RH	DDA
32-778	1.828	1.062	0.177	1.355/1.365	1.001/1.011	59-65 @ 1.586	148.5-158.5 @ 1.222	6.000 LH	FDI, FOR
32-793	1.959	0.830	0.105	1.016	0.805	17 @ 1.488	38 @ 1.106	8.200 RH	PER
32-794	2.590	1.065	0.142	1.431	1.141	54 @ 1.656	92 @ 1.256	7.50 LH	ALL
32-798	2.000	1.140	0.188	1.438	1.052/1.072	76-84 @ 1.670	175-194 @ 1.240	6.000 LH	FDI, FOR
32-807	1.990	1.152	0.192	1.400	1.016	76-84 @ 1.700	187-207 @ 1.300	6.000 LH	CHC, FOR, FDI
32-812	1.875	1.120	0.188	1.395/1.405	1.019/1.029	77-85 @ 1.580	183-202 @ 1.180	6.000 LH	FDI, FOR
32-813	1.760	0.950	0.141	1.050/1.065	0.768/0.783	28-34 @ 1.566	99-105 @ 1.114	6.750 LH	GM, NII
32-816-D	2.180	1.340	0.207	1.504	1.090	90 @ 1.880	220 @ 1.460	6.500 LH	GDI, GM
32-817	2.678	1.770	0.188	1.282	0.896/0.916	53.2-58.8 @ 2.34	166 @ 1.830	9.50 RH	CAT
32-863	2.260	1.356	0.187	1.322/1.342	0.948/0.968	95-105 @ 1.812	188.202 @ 1.437	7.250 RH	CHC, IHC
32-864-D	2.050	1.340	0.207	1.504	1.090	90 @ 1.800	220 @ 1.400	6.500 LH	GDI, GM, GMM

-D Suffix Denotes Spring With Damper

# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-869	2.580	1.350	0.185	1.380/1.400	1.010/1.030	121-129 @ 1.860	192-208 @ 1.430	7.52 RH	CHC, CHI
32-880-D	2.030	1.150	0.177	1.222	0.878	80 @ 1.700	200 @ 1.250	6.600 RH	FDI, FOR, GDI, GMM, GM
32-887-D	2.050	1.260	0.200	1.390	0.990/1.010	72-80 @ 1.800	191-203 @ 1.400	6.500 RH	FDI, FOR, IHC, IHN
32-893	2.313	1.180	0.148	1.140	0.844	52-58 @ 1.812	94-104 @ 1.437	8.000 RH	ALL
32-907-D	2.060	1.260	0.218	1.503	1.067	85@ 1.820	270@ 1.320	6.000 LH	FDI, FOR
32-909-D	2.120	1.320	0.200	1.452/1.472	1.052/1.072	85-95 @ 1.82	209-231 @ 1.380	6.625 LH	FDI, FOR
32-931	2.020	1.220	0.195	1.450	1.060/1.080	73.4-80.6 @ 1.70	171-189 @ 1.280	6.250 LH	FDI
32-939	2.090	1.380	0.135	0.796	0.533	32 @ 1.930	110 @ 1.527	10.25 RH	DDA
32-942	2.130	1.150	0.185	1.380	1.010/1.030	80-90 @ 1.740	168-182 @ 1.330	6.500 RH	CHC, CHI
32-943-D	2.040	1.248	0.192	1.266	0.884	110 @ 1.700	285 @ 1.210	6.500 RH	GDI, GM, GMM
32-944	2.201	1.106	0.125	1.125	0.882	18-22 @ 1.790	48.5-53.5 @ 1.187	9.100 LH	CAT
32-945	2.574	1.531	0.218	1.703	1.267/1.295	58.5-71.5 @ 2.219	167-185 @ 1.614	7.35 RH	CAT
32-948	2.050	1.201	0.185	1.373	1.003/1.029	52.2-63.4 @ 1.766	151.3-167.1 @ 1.271	6.740 LH	CAT
32-950	2.310	1.340	0.188	1.486	1.110	51.5-58.5 @ 1.950	180 @ 1.400	7.380 RH	CAT
32-967	3.100	1.437	0.162	1.518	1.194	28-34 @ 2.500	103-125 @ 1.750	9.00 LH	ALL
32-968	2.635	1.375	0.136	1.125	0.853	27-33 @ 2.100	58-72 @ 1.625	10.500 R	ALL
32-991	2.068	1.275	0.200	1.390/1.410	0.990/1.010	76-84 @ 1.810	218-240 @ 1.330	6.375 LH	CHC, FOR, FDI, FOM
32-999	2.200	1.300	0.192	1.394	1.000/1.020	80-88 @ 1.812	210-226 @ 1.365	6.900 RH	CHC, IHN
32-1009	2.130	1.280	0.207	1.500	0.803	90 @ 1.880	280 @ 1.380	6.500 RH	GDI, GM, GMM
32-1012	2.613	1.519	0.225	1.731	1.281	81-89 @ 2.219	233 @ 1.580	7.000 RH	CAT
32-1014	2.685	1.610	0.177	1.245	0.891/0.915	67-74 @ 2.250	147-163 @ 1.724	9.00 RH	CUM
32-1038-D	1.910	1.130	0.177	1.222/1.238	0.868/0.884	76-84 @ 1.610	194-206 @ 1.160	6.600 RH	GDI, GM, GMM
32-1040	1.910	1.100	0.194	1.388/1.408	1.000/1.020	80-88 @ 1.630	210-226 @ 1.183	6.000 RH	CHC, IHC
32-1041-D	2.093	1.278	0.225	1.540	1.090	80@ 1.88	300@ 1.380	5.680 LH	GDI, GM, GMM
32-1048	1.831	1.100	0.162	1.210	0.886	50-56 @ 1.524	122-136 @ 1.190	7.000 RH	FTA, NII, NIS
32-1050	1.830	1.000	0.177	1.131/1.151	0.954/0.974	47-54 @ 1.640	132-148 @ 1.265	5.625 RH	MDI
32-1062	2.350	1.150	0.177	1.547	1.193	68-78 @ 1.750	123.5-136.5 @ 1.287	6.500 RH	CUM
32-1063	2.090	1.100	0.142	1.147	0.863	36-42 @ 1.700	80-90 @ 1.237	7.750 LH	CUM
32-1068	1.782	0.961	0.135	1.200	0.914/0.934	21-25 @ 1.500	48-52 @ 1.156	7.122 RH	PER
32-1069	1.375	0.649	0.091	0.843	0.656	8 @ 1.200	30@ 0.725	7.130 LH	PER
32-1082	2.035	1.225	0.200	1.355/1.385	0.955/0.985	65-75 @ 1.800	190-225 @ 1.400	6.500 RH	CHC, IHC
32-1096	2.000	1.265	0.175	1.225	0.860/0.890	40-50 @ 1.800	120-140 @ 1.400	7.250 RH	TOI, TOY
32-1123	1.800	1.056	0.162	1.270/1.295	0.946/0.971	40-48 @ 1.550	110-130 @ 1.150	6.000 RH	CHC, MDI, MIT
32-1158	2.200	1.392	0.192	1.365	0.981/1.001	60-72 @ 1.900	145-170 @ 1.50	7.250 RH	CAS
32-1165	2.760	1.521	0.162	1.197	0.878/0.898	52-57 @ 2.300	132-162 @ 1.700	9.300 RH	ALL
32-1171	3.349	1.841	0.234	1.785	1.317/1.347	161-181 @ 2.470	266-294 @ 1.908	7.800 LH	CUM
32-1173	2.500	1.632	0.192	1.236	0.854/0.878	70-86 @ 2.200	165-200 @ 1.800	8.500 RH	CAT
32-1178	2.400	1.296	0.192	1.444	1.060/1.080	85-100 @ 1.900	185-215 @ 1.400	6.750 RH	IHC
32-1185	1.985	1.250	0.192	1.260	0.876/0.906	73-81 @ 1.750	202-222 @ 1.350	6.500 LH	CUM
32-1189	2.060	1.554	0.148	0.822	0.526/0.540	30-35 @ 1.930	90-110 @ 1.700	10.500 R	DDA
32-1215	2.920	1.700	0.177	1.280	0.926	100 @ 2.250	155-189 @ 1.765	9.600 RH	CUM
32-1216	3.543	1.964	0.185	1.576	1.206	53@ 2.772	134@ 2.154	11.000 R	MAC
32-1217	3.030	1.800	0.148	1.058	0.762	29@ 2.660	101@ 2.030	12.500 L	MAC
32-1220-D	2.035	1.278	0.192	1.250	0.866/0.886	76-84 @ 1.811	220-240 @ 1.390	6.600 RH	GDI, GM
32-1239	1.900	1.152	0.192	1.426	1.042/1.062	47-57 @ 1.70	160-180 @ 1.250	6.000 RH	CAT
32-1240	1.996	1.152	0.206	1.546	1.134/1.162	43.5-53.5 @ 1.802	165-183 @ 1.302	6.160 RH	CAT
32-1241	1.960	1.191	0.170	1.203	0.863/0.887	40.5-49.5 @ 1.738	134-148 @ 1.258	7.250 RH	CAT
32-1253-D	2.154	1.457	0.199	1.238	0.840/0.860	55-65 @ 1.992	224-240 @ 1.524	7.320 RH	DDA
32-1289	1.960	1.150	0.163	1.330/1.360	1.004/1.034	66-74 @ 1.600	168-188 @ 1.200	6.800 RH	CHC, HYU, MAZ, MDI, MIT
32-1291	2.038	1.117	0.185	1.540	1.174/1.206	37-46 @ 1.790	135/149 @ 1.190	6.290 RH	CAT
32-1292	1.920	0.988	0.128	1.037	0.781/0.807	18-23 @ 1.67	66-74 @ 1.072	7.970 RH	CAT
32-1293	2.341	1.434	0.200	1.469	1.069	50-61 @ 2.100	171-189 @ 1.530	7.420 RH	CAT
32-1294	2.678	1.316	0.125	0.989	0.739	44 @ 1.978	83 @ 1.416	10.30 LH	CAT
32-1296	3.300	1.954	0.207	1.428	1.026	125-139 @ 2.589	219-241 @ 2.073	9.400 RH	CUM
32-1298	3.100	1.663	0.135	0.971	0.701/0.725	56-64 @ 2.308	93.7-105.9 @ 1.783	12.320 L	CUM
32-1313	1.846	1.180	0.186	1.309	0.930	55 @ 1.650	170 @ 1.250	6.500 RH	TOI, TOY
32-1332	2.635	1.552	0.207	1.492	1.076	89 @ 2.240	218 @ 1.670	7.4 RH	CUM

-D Suffix Denotes Spring With Damper

# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-1333	2.000	1.332	0.148	0.949	0.653	39-43 @ 1.800	111-119 @ 1.430	9.00 RH	DDA
32-1368	1.720	1.060	0.125	0.960	0.710	37 @ 1.350	62 @ 1.100	8.000 RH	KIA, MAI, MAZ
32-1370	1.958	1.048	0.156	1.317	1.005	62 @ 1.450	101 @ 1.200	7.200 LH	KIA, MAI, MAZ
32-1378	2.300	1.200	0.192	1.444	1.060	211 @ 1.300	85 @ 1.900	6.500 RH	FDI
32-1420	2.114	1.200	0.200	1.410	1.010	129 @ 1.650	225 @ 1.350	6.300 LH	FDI, FOR
32-1595	2.106	1.005	0.152 x	1.329	0.929	61 @ 1.700	219 @ 1.080	6.75 RH	CUM
32-1680	2.059	1.200	0.177	1.240	0.876	85 @ 1.700	205 @ 1.270	6.700 RH	GDI, GM
32-1943-D	2.140	1.160	0.192	1.260	0.876	110 @ 1.800	325 @ 1.200	6.000 RH	GDI, GM
32-02061	2.385	1.400	0.187	1.320	0.948	78 @ 2.000	174 @ 1.650	7.60 RH	CAS, CHC,CUM
32-2470	2.075	1.075	0.148	1.154	0.858	30 @ 1.790	96 @ 1.230	7.50 LH	CAT
32-2471	2.500	1.377	0.226	1.740	1.290	65 @ 2.220	198 @ 1.660	6.500 RH	CAT
32-2522	2.212	1.180	0.187	1.397T	1.017T	90 @ 1.808	226 @ 1.338	6.500 RH	GDI, GM, GMM
32-04000	3.205	1.657	0.192	1.440	1.056	81 @ 2.643	222 @ 2.008	9.00 RH	CAT
32-04001	2.980	1.437	0.126	0.991	0.739	37 @2.368	96 @1.733	11.25 LH	CAT
32-04003	2.218	1.375	0.225	1.488	1.038			6.000 RH	DDA
32-04004	3.420	2.066	0.207	1.383	0.969	120 @ 2.810	255 @ 2.240	10.50 RH	CUM
32-04008	2.840	1.967	0.191	1.135	0.761	52 @ 2.593	198 @ 2.000	10.50 LH	CAT
32-04009	2.580	1.370	0.207	1.482	1.068	145 @ 1.980	262 @ 1.530	6.900 LH	IHC, IHN
32-04010	2.357	1.370	0.207	1.477	1.063	83 @ 2.007	215 @ 1.497	6.900 LH	IHC, IHN
32-04011	2.717	1.350	0.177	1.410	1.056	117 @ 1.850	160 @ 1.530	7.50 RH	MAC
32-04012	2.560	1.417	0.192	1.408	1.025	85 @ 2.067	191 @ 1.500	7.50 RH	JDR
32-04013	2.050	1.270	0.207	1.424T	1.010T	75 @ 1.840	250 @ 1.348	6.300 RH	GDI, GM
32-04014	2.208	1.130	0.177	1.420	1.067	69 @ 1.740	145 @ 1.320	6.750 LH	FTA
32-04015	2.335	1.360	0.177	1.275	0.920	46 @ 2.096	162 @ 1.534	7.120 RH	CUM
32-04016	2.390	1.280	0.177	1.454	1.100	65 @ 1.900	145 @ 1.405	7.50 LH	FTA
32-04020	2.690	1.748	0.182	1.130	0.766	93 @ 2.300	217 @ 1.800	9.50 LH	CAT
32-04021	3.650	2.511	0.207	1.138	0.724	129 @ 3.250	290 @ 2.750	12.250 L	CAT
32-04022	3.230	2.246	0.197	1.132	0.738	139 @ 2.787	317 @ 2.323	9.00 LH	CAT
32-04023	2.875	1.200	0.118	1.044	0.808	17 @ 2.500	54 @ 1.700	10.00 LH	MAC
32-04024	2.940	1.410	0.182	1.430	1.066	48 @ 2.600	159 @ 1.800	8.000 RH	MAC
32-04027	2.320	0.870	0.104	0.922	0.702	36 @1.600	74 @0.940	8.35 RH	CAT
32-04028	2.341	0.910	0.145	1.257	0.975	70 @1.600	138 @1.012	6.500 LH	CAT
32-04031	2.059	1.013	0.113	0.978	0.752	21 @ 1.686	69 @ 1.114	9.00 LH	IDI
32-04032	2.131	1.115	0.167	1.347	1.013	60 @ 1.690	156 @ 1.194	6.750 RH	IDI
32-04037	2.320	1.080	0.135	1.125	0.855	44 @ 1.770	92 @ 1.240	7.50 RH	JDR
32-04038	2.520	1.250	0.192	1.574	1.190	100 @ 1.890	165 @ 1.510	6.500 LH	JDR
32-04039	2.755	1.758	0.200	1.235	0.835	126 @ 2.34	281 @ 1.828	9.00 RH	JDR
32-04040	2.076	1.377	0.169	0.995	0.657	64 @ 1.880	207 @ 1.440	8.150 RH	FDI, FOR, IHN
32-04041	2.216	1.168	0.156	1.263	0.865	34 @1.941	134 @1.291	7.50 RH	GDI, GM
32-04042	2.180	1.130	0.178	1.365T	1.015T	75 @ 1.808	205 @ 1.338	6.500 RH	GDI, GM
32-04043	1.630	0.695	0.122	1.105	0.859	15@1.456	56@0.941	6.500 RH	PER
32-04044	1.808	0.875	0.162	1.487	1.164	25@1.567	106@1.02	5.500 LH	PER
32-04047	2.060	1.063	0.170	1.315	0.975	92@1.575	172@1.155	6.600 RH	IHN
32-04049	2.194	1.280	0.187	1.342	0.968	38@2.010	184@1.440	7.000 RH	CUM
32-04050	3.886	2.275	0.218	1.393	0.957	94@3.464	324@2.535	10.650 R	CUM
32-04052	2.650	1.445	0.232	1.800	1.336	43@2.450	278@1.543	6.250 RH	CUM
32-04053	1.890	0.925	0.130 X	1.084	0.744	76@1.390	150@1.060	7.250 RH	CHC,CUM
32-04054	3.262	2.057	0.178 x	1.190	0.766	50@3.006	241@2.236	11.780 R	DDA
32-04056	2.175	1.140	0.1850	1.488	1.118	35@1.984	150@1.346	6.20 RH	IHC
32-04057	2.266	1.300	0.135	1.032	0.762	51@1.717	83@1.457	10.00 RH	IHC
32-04058	2.363	1.130	0.152	1.323	0.924	79@ 1.850	223@ 1.200	7.50 RH	CUM
32-04063	2.173	1.185	0.190	1.396	1.020	69@1.766	195@1.271	6.000 RH	CAT
32-04901	3.030	1.602	0.224	1.720	1.272	102 @ 2.500	197 @ 2.000	7.150 LH	CAT
32-04902	2.446	1.136	0.142	1.217	0.933	48 @ 1.800	95 @ 1.300	8.000 RH	CAT
32-5000	1.668	0.720	0.135	1.239	0.969	17@1.485	76@0.937	5.30 RH	KUB
32-5002	2.185	1.210	0.162	1.115	0.791	74 @1.770	168 @1.300	7.65 RH	JDR
32-5004	2.371	1.150	0.105	0.838	0.628	32 @1.685	62 @1.213	10.9 RH	CAT
32-5005	2.903	1.175	0.128	1.119	0.863	67 @1.732	99 @1.260	9.10 LH	CAT

-D Suffix Denotes Spring With Damper

# SPRING NUMERICAL LISTING

QC #	Free Length	Solid Height	Wire Size	O.D.	I.D.	Closed Position Pressure @ Length	Open Position Pressure @ Length	# Of Coils Left Or Right Hand	Application
32-5010	2.520			1.425	0.905	80@2.15	204@1.60	8.0 RH	GDI, GM
32-5012	2.330	1.185	0.152x0	1.238	0.838	74@ 1.900	215@ 1.225	8.00 RH	JDR
32-5013	2.765	1.460	0.142	0.953	0.669	71@ 2.200	156@ 1.550	10.4RH	MAC, VOH
32-5014	3.035	1.570	0.197	1.375	0.981	130@ 2.350	294@ 1.700	7.90LH	MAC, VOH
32-5015	1.979	0.905	0.123x0	1.020T	0.714T	89@ 1.338	146@ 0.964	7.55 RH	FDI, FOR
32-05860	4.067	2.678	0.207	1.194	0.780	190 @ 3.338	339 @ 2.814	12.800 R	CUM
32-06412	2.545	1.373	0.192	1.388	1.004	109 @ 2.00	227@1.492	7.50 RH	CUM
32-07082	2.550	1.281	0.120	0.920	0.680	50 @ 1.800	104 @ 1.300	10.50 LH	CAT
32-07083	2.525	1.375	0.182	1.340	0.976	90 @ 2.00	191 @ 1.500	7.50 RH	CAT
32-09415	2.910	1.841	0.200	1.153	0.753	103 @ 2.608	275 @ 2.165	9.800 RH	DDA

-D Suffix Denotes Spring With Damper

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# KEEPER NUMERICAL LISTING

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QC #	Heat Treated	Application	No. Of Grooves
34-123	No	CAS, CUM	2
34-165	Yes	FDI, FTA, GM	NA
34-208	Yes	TOI, TOY	3
34-212	Yes	FOR, MAI, MAZ	1
34-213	Yes	FOR, KIA, MAI, MAZ	1
34-217P	Yes	ALL, PER	1
34-221	No	CAS	2
34-222	Yes	CUM	1
34-225	Yes	PER	1
34-281	Yes	FDI, FOR, LAN, MAZ	3
34-309	No	DDA	1
34-510	Yes	CAT, GM	1
34-555	Yes	Universal 11/32	1
34-613	Yes	Universal 3/8	1
34-614	Yes	Universal 5/16	1
34-716	Yes	CHC, FOR, HYU, MAZ, MDI, MIT	1
34-743	No	CHI, CHM, CHC, JDR	2
34-746	Yes	CAT, CHI, CHM, CHC, CUM, JDR, WAU	2
34-766	Yes	CHI, CHM, CHC, IHC, IHN	4
34-800	Yes	IHC	1
34-802	Yes	CAS, CON, FDI, FOR, IHN, JDR, MAC	1
34-803	Yes	CUM, IHN, IHC, MIN	2
34-810	Yes	MAC	0
34-811	Yes	TOI, TOY	1
34-813	Yes	CHC, MDI, MIT	1
34-815	Yes	GM, NII, NIS	1
34-816	No	CAT	0
34-822	Yes	CAS, CON	PIN
34-00944	Yes	IHC	1
34-01177	Yes	CUM	1
34-01889	Yes	JDR	1
34-2004	Yes	PER	1
34-04644	Yes	CUM, IHC, IHN, ISU	1
34-5021	Yes	Various	3
34-05203	Yes	DDA	1
34-05354	Yes	CUM	1
34-05425	Yes	MAC	1
34-06513	Yes	CHC, MIT, PER, VOK	3
34-09573	Yes	DDA	1



# LIFTER NUMERICAL LISTING

QC #	Type	Length	O.D.	Application
36-7116	Hydraulic			FOR
36-817CCI	Hydraulic	2.000	0.8425	GM SBC Flat Chilled Cast Iron
36-855	Hydraulic	2.000	0.9968	IHC
36-900CCI	Hydraulic	2.000	0.8743	FOR Flat Chilled Cast Iron
36-969	Hydraulic	2.000	0.8425	GM
36-976	Hydraulic	1.900	0.9380	CHC
36-992	Mechanical	2.000	0.8425	GM Early
36-0012	Mechanical	4.450	1.1280	PER
36-2011CCI	Hydraulic	1.900	0.9040	CHC Chilled Cast Iron
36-2041	Mechanical	2.437	0.9968	IHC
36-2073	Mechanical	2.052	1.1575	CAT
36-2082	Mechanical	2.437	1.1198	IHC
36-2083	Hydraulic	1.830	0.8743	FOR
36-2084	Mechanical	1.830	0.9043	CHC
36-2089	Hydraulic	1.830	0.9043	CHC
36-2104	Hydraulic	2.602	0.9210	GM,FOR,IHC
36-2148	Hydraulic	2.600	0.8425	GM Vortec Roller
36-2148G	Guide			GM Vortec Dogbone Guide
36-2212	Mechanical	2.500	1.3150	CAT
36-2279	Hydraulic	2.603	0.8421	GM BBC Roller
36-2279G	Guide			GM BB Dogbone Guide
36-2302	Mechanical	2.690	0.6265	CUM
36-6000	Hydraulic	1.024	0.5110	CHC, HYU, MAZ, MIT
36-6005	Hydraulic	2.000	0.8425	TOY
36-7013	Mechanical	6.318	0.9960	CAT
36-7014	Mechanical	2.980	0.7475	PER
36-7015	Mechanical	2.580	0.6825	JDR
36-7083	Hydraulic	3.545	1.0950	CAT
36-7096	Mechanical Roller	2.945	1.1200	IHN
36-7097	Mechanical	2.240	1.1300	CUM
36-7098	Mechanical	2.118	1.496	CUM
36-7099	Mechanical			CUM

## RETAINER / ROTATOR NUMERICAL LISTING

QC #	Application	Type
37-1046	GDI, GM, GMM	Rotator
37-1081	CUM	Rotator
37-1086	JDR	Rotator
37-1410	JDR	Rotator
37-1581	IHN	Rotator
37-2001	CAT	Rotator
37-2299	CUM	Retainer
37-2313	MAC	Rotator
37-2474	CAT	Rotator
37-2757	CUM	Rotator
37-2884	CUM	Retainer
37-2899	GDI, GM, GMM	Rotator
37-3198	CUM	Retainer
37-03231	CUM	Rotator
37-3512	CUM	Retainer
37-4000	FDI, FOR	Retainer
37-4003	GDI, GM, GMM	Rotator
37-4250	GDI, GM	Retainer
37-4452	CUM	Retainer

QC #	Application	Type
37-4680	IHN	Rotator
37-5655	IHN	Rotator
37-5666	CUM	Rotator
37-6514	FDI, FOR	Rotator
37-6761	CAT	Rotator
37-6999	CAT	Rotator
37-7062	CAT	Rotator
37-7063	CAT	Rotator
37-7175	CAT	Rotator
37-7639	CAT	Rotator
37-7782	CAT	Rotator
37-7977	CAT	Rotator
37-9005	JDR	Rotator
37-09105	DDA	Rotator
37-9226	MAC	Rotator
37-9320	MAC	Rotator
37-9461	CAT	Rotator
37-9826	IHN	Rotator

### Performance Retainers

## QUALFAST HIGH PERFORMANCE RETAINERS

Precision Machined From Chrome Moly or Titanium, our High Performance Retainers are specially designed to work with our High Performance Springs.



Part No	Stem Dia	O.D.	Step 1 Dia.	Step 2 Dia.	Deg.	Matl.	Note
<b>Domestic Performance</b>							
55-6906	11/32	1.130	0.865	0.615	7	ChromeMoly	GM Vortec 86-Up
55-6115	11/32	1.200	0.748	0.635	7	ChromeMoly	GM 265-350
55-6105	11/32	1.200	0.850	0.667	7	ChromeMoly	GM 265-350
55-6100	11/32	1.240	0.860	0.600	7	ChromeMoly	Std. SBC
55-6304	3/8	1.400	1.060	0.695	7	ChromeMoly	
55-6305	3/8	1.490	1.120	0.695	7	ChromeMoly	
<b>Diesel Performance</b>							
55-6328	0.274	0.912	0.621		7	Chrome Moly	

# VALVE STEM SEAL NUMERICAL LISTING

QC #	Type	Application
38-0057-45	TH	CUM
38-119-35	UM	GDI, GM
38-134-55	TH	CUM
38-160-55	TH	FDI, FOR, IHN
38-173-45	TH	FDI, FOR, IHN
38-223-55	MC	GDI, GM, IDI, ISU
38-229-45	MC	CAT
38-253-45	UM	CHC, FDI, FOR
38-259-35	UM	FDI, FOR
38-299-45	MC	GDI, GM
38-371-45	MC	GDI, GM
38-403-45	MC	CAT, FDI, FOR, JDR
38-450-25	UM	CHI, FOR, GDI, GM, PER, TOI
38-466-45	TH	IHC, IHN
38-502-55	MC	DDA
38-522-25	UM	FDI, FOR, FTA
38-530-25	UM	CHC, CHI, FDI, FOR, GM, IHC
38-535-45	RB	CAS, CHC, CUM, GM
38-545-45	MC	MAC
38-552-45	MC	GDI, GM
38-667-45	TH	NII
38-713-15	UM	CHC, FDI, FOR
38-780-25	UM	CHC, CHI, CHM
38-811-55	MC	GDI, GM, GMM
38-827-45	MC	FDI, GM, ISU
38-844-45	RS	FDI, FOR, GM, IHN
38-856-45	TH	CAT
38-893-15	UM	CAS
38-905-25	UM	FDI, FOR
38-910-25	UM	CHC, FDI, FOR, GM, GMM, IHC, IHN, VOK
38-911-25	UM	FDI, FOR
38-915-25	UM	CHC, FOR, FOM, GM, IHC, IHN
38-921-25	2R	Universal
38-925-25	RB	Universal
38-937-15	RB	FDI, FOR, GM
38-938-45	RB	Universal
38-951-25	2R	FDI, FOR, GM, GMM
38-961-55	MC	MDI, NII, NIS, VOK
38-962-45	RS	Universal
38-964-55	MC	Universal
38-966-55	MC	KIA, MAI, MAZ
38-967-55	MC	GM, TOI, TOY
38-971-45	UM	TOI, TOY
38-985-55	MC	FOR, NII, NIS
38-0234-35	UM	CAT, IHN
38-0438-45	MC	CUM
38-0989-45	MC	CUM
38-1045-70	TR	FDI, GMM
38-1046-75	TE	CON, PER
38-1053-75	TE	DDA
38-1054-70	TR	Universal
38-1055-70	TR	CUM, KOM, MIN
38-1062-70	TR	FDI, FOR
38-1065-70	TR	FOR, GM, IHC
38-1068-70	TR	Universal
38-1072-75	TE	PER
38-1209-80A	TM	DDA

QC #	Type	Application
38-1209-80	MC	DDA
38-1741-80	MC	DDA
38-1741-80A	TM	DDA
38-2000-55	MC	MAC
38-2008-55	MC	CUM
38-2245-45	TH	IHC
38-2882-35	UM	JDR
38-3036-45	TH	CAT
38-3044-45	TH	CAT
38-3295-45	TH	IHC, IHN
38-3432-55	TH	IHN
38-3888-45	TH	CUM
38-3966-45	MC	CUM
38-4281-45	TH	CUM
38-4800-80A	TM	DDA
38-4800-80	MC	DDA
38-5080-55	MC	CHC, MBT, MER
38-5707-45	TH	CUM
38-6114-55	TH	CUM
38-6115-55	TH	GDI, GM, IDI, ISU
38-6121-55	TH	JDR
38-6122-55	TH	JDR
38-6124-55	MC	CAT
38-6126-55	MC	MBT
38-6129-55	TH	FDI, FOR
38-6132-55	MC	GDI, GM 6.6L Late
38-6133-55	MC	JDR
38-6328-55	MC	MAC
38-6635-45	TH	JDR
38-6791-45	MC	CUM
38-7117-45	UM	PER
38-7120-45	MC	IDI
38-7174-35	UM	CAT
38-8781-55	MC	CUM
38-9191-45	TH	CUM

Material  
Denoted by  
Suffix:

-15 Nitrile  
-25 Polyacrylic  
-35 Glass Filled Nylon

-45 Viton  
-55 Metal Clad  
-65 Silicone

-70 Teflon And Rubber  
-75 All Teflon  
-80 Teflon And Metal

# ROCKER COMPONENT NUMERICAL LISTING

QC #	Application	Description
40-2736	GDI, GM	Rocker Arm, Self-Aligning Stamped 3/8"
40-2754	GDI, GM	Rocker Arm, GM 7.0, 7.4L
40-2844	CHI, GM, GMM	Rocker Arm
40-2850	CHC, CHI, CHM	Rocker Arm, Stamped LH
40-2851	CHC, CHI	Rocker Arm, Stamped RH
40-2859	FDI, FOR	Rocker Arm. Cast
40-2867	GDI, GM	Rocker Arm, Stamped
40-2868	GDI, GM	Rocker Arm, Stamped For >0.560 Lift
40-2876	FDI, FOR	Rocker Arm. 240, 300 Cast
40-2888	FDI, FOR, FOM	Rocker Arm, Stamped
40-2892	CHC, CHI, CHM	Rocker Arm, CHC 239, 340, 360 LH
40-2893	CHC, CHI, CHM	Rocker Arm, CHC 239, 340, 360 RH
40-2900	GDI, GM	Rocker Arm, GM 6.2, 6.5L Diesel
40-3924	IHN	Rocker Arm
40-5267	DDA	Rocker Arm. 53 Ser. LH
40-5268	DDA	Rocker Arm, 53 Ser. RH
40-7195	IHN	Rocker Arm
40-8472	DDA	Rocker Arm Assembly. LH
40-8475	DDA	Rocker Arm Assembly. RH
42-2641	FDI, FOR	Rocker Shaft. 18 x 0.84
42-2701	CHC, CHI, CHM	Rocker Shaft
42-2920	GDI, GM	Rocker Stud, 3/8-24 x 2.500 Press-In
42-2921	GDI, GM, GMM	Rocker Stud. +3 O/S 3/8-24 x 2.300 Press-In
42-2934	FDI, FOR, FOM	Rocker Stud, 3/8-24x 2.600
42-2940	FDI, FOR	Stud, 7/16-20 x 7/16-14 Hex x 2.6700
42-2941	GDI, GM	Stud, 7/16-14x7/16-20x2.560
42-2971	GDI, GM	Rocker Stud Bolt
42-3330	CUM	Injector Roller Pin, Big Cam
42-3331	CUM	Valve Roller Pin Big Cam
42-3558	CUM	Rocker Bridge Guide
42-3679	CUM	Valve Cam Roller, Small V
42-3813	DDA	Valve Roller and Pin Set
42-3814	DDA	Cam Follower Roller Set
42-4223	CUM	Injector Roller Pin, Small V
42-4439	DDA	Cam Follower Assembly
42-4571	CUM	Injector Roller, Small V
42-5237	CUM	Valve Lever Roller, 94N14
42-5341	CUM	Cam Roller Pin, L10, M11
42-5342	CUM	Cam Roller Pin, L10, M11
42-5487	CUM	Cam Roller, L10, M11
42-5488	CUM	Cam Roller, L10, M11
42-5714	DDA	Rocker Shaft, DET 71, 92 Ser. 4V
42-5956	CUM	Injector Cam Roller, L10
42-6388	CUM	Injector Lever Pin, 94N14
42-6428	CUM	Valve Lever Pin, 94N14
42-6933	CUM	Valve Cam Roller, Big Cam
42-6934	CUM	Injector Cam Roller, Big Cam
42-7096	CUM	Injector Cam Roller, Small Cam
42-7423	CUM	Injector Cam Roller, N14
42-7544	CUM	Injector Roller Pin, Small Cam
42-7564	DDA	Valve Bridge Guide
42-7922	CUM	Injector Cam Roller Pin, N14
42-8904	CUM	Rocker Shaft / Lever
42-8939	CUM	Rocker Roller Pin

QC #	Application	Description
42-9154	CUM	Valve Roller Pin, Small V
42-9260	CUM	Valve Cam Roller, Small Cam



TYPE A



TYPE D

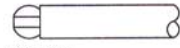


TYPE E



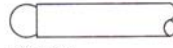
3/8 Ball

TYPE M



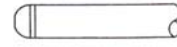
5/16 Ball

TYPE O



5/16 Ball

TYPE P



TYPE Q

Type: P = Pressed S = Swedged W = Welded

## PUSH ROD NUMERICAL LISTING

QC #	Length	Type	Tip 1	Tip2	O.D.	Application
74-5311	9.620	W	M	M	5/16X .060	FDI, FOR, GM
74-5312	9.590	W	M	M	5/16X .060	FDI, FOR
74-5621	11.4					IHN, IHC
74-6034	7.793	W	O	O	5/16X .060	GM SB, AMC
74-6230	8.279	W	O	O	5/16X .075	GM BB Int
74-6231	9.252	W	O	O	5/16X .075	GM BB Exh
74-6274	8.550	W	O	O	5/16X .060	FDI, FOR
74-6306	10.136	W	O	O	5/16X .060	Ford 240, 300
74-6373	7.195	W	O	O	5/16X .060	GM SB
74-6380	9.200	W	O	O	5/16X .075	GM BB Exh
74-6385	7.894	W	O	O	5/16X .060	CHC, GM
74-6430						CUM
74-6441	8.281	S	O	O	3/8X .060	GM BB Int
74-6442	9.254	S	O	O	3/8X .060	GM BB Exh
74-6448	10.863	P	A	D	3/8X .060	CUM
74-6608	10.013	W			0.344X .060	FOR, IHN
74-6609	8.822	W			.371X .075	GMDI
74-6611	10.258	W			0.344X .060	FOR, IHN
74-6615	7.192	W	O	O	5/16X .060	GM
74-6638	8.182	W			0.375X .060	GM, GDI
74-6639	9.140	W			0.375X .060	GM, GDI
74-6662	9.795	W	O	O	0.344X .060	FOR, IHN
74-6858S						DDA PR Spring

# INJECTOR COMPONENT NUMERICAL LISTING

QC #	Application	Description	QC #	Application	Description
87-0129	MAC	Injector Tube	87-6702	CUM	Injector Tube
87-0390	DDA	Injector O-Ring, 8.2L	87-6951	FOR	Injector Tube
87-0411	MAC	Injector Tube	87-7257	CAT	Injector O-Ring 3126B, C7, C9
87-0412	MAC	Injector Tube	87-7430	CAT	Injector O-Ring, Small, Bottom, 3400E
87-0486	CUM	Injector Tube, Thin Nose, 855	87-7717	CUM	Injector Tube
87-0486K	CUM	Injector Tube Kit with Ring	87-7759	CUM	Injector O-Ring
87-0563	CAT	Injector O-Ring, 3126B	87-8320	FTU	Injector Tube, 6.0L
87-0873	CUM	Injector Tube	87-8339	JDR	Injector Tube
87-0873K	CUM	Injector Tube and Ring Kit	87-8349	JDR	Injector Ring, Top
87-1028	DDA	Injector Tube	87-8463	GMC	Injector Tube, 6.6L
87-1095	IHN	Injector Tube	87-8536	CUM	Injector O-Ring
87-1102	CAT	Injector Tube, C10, C12	87-8621	VOH	Injector Tube
87-1147	CUM	Injector Tube, Thick Nose	87-8778	IHC, IHN	Injector Tube, 466 Electric
87-1200	CAT	Injector Tube, C7, C9	87-9293	DDA	Water Director, 53 Ser.
87-1200K	CAT	Injector Tube and Ring Kit	87-9528	DDA	Injector Tube Kit, 149 Ser.
87-1259	GMC	Injector O-Ring, 6.6L	87-9630	CUM	Injector Tube, Small V
87-1332	DDA	Water Director, 71-4V Ser.	87-9724	DDA	Injector Tube, 8.2L
87-1559	JDR	Injector Tube, Stainless	87-9886	CUM	Injector Seal, 6C
87-1580	DDA	Injector Tube, 60 Ser.			
87-1580K	DDA	Injector Tube and Ring Kit			
87-2075	JDR	Injector O-Ring, Black			
87-2076	JDR	Injector O-Ring, Purple			
87-212A	MAC	E6-4V, E7-4V, E6350-4V			
87-2388	DDA	Water Director, 92 Ser.			
87-2903	CAT	Injector O-Ring, Large, Top, 3400E			
87-2904	CAT	Injector O-Ring, Middle, 3400E			
87-2911	CAT	Injector Tube, 3126B			
87-2911K	CAT	Injector Tube and Ring Kit			
87-3061	CAT	Injector Tube, 3114, 3116, 3126			
87-3062	CAT	Water Director, Short, 3300			
87-3147	DDA	Injector O-Ring, 60 Ser. From '04			
87-3148	DDA	Injector Tube, 60 Ser. From '04 Stainless			
87-3400	DDA	Injector Tube			
87-3609	JDR	Injector Ring, Bottom			
87-3935	JDR	Injector Tube			
87-4232	CAT	Injector Tube, 3176			
87-4239	CAT	Injector Tube, 3400E			
87-4376	FTU, IHN	Injector Tube, 7.3L			
87-4701	DDA	Injector O-Ring			
87-5026	CUM	Injector O-Ring			
87-5344	IHC, IHN	Injector Tube			
87-5442	IHN	Injector Tube, 360, 466			
87-5470	DDA	Injector O-Ring, 60 Ser.			
87-5606	DDA	Injector Tube. Thin Nose			
87-5981	DDA	Injector Tube, Thick Nose, 53, 71, 92 Ser.			
87-5981K	DDA	Injector Tube and Ring Kit			
87-6487	MAC, VOH	Injector O-Ring, Black			
87-6503	IHN	Injector Tube			

# EXPANSION PLUG KITS / COMPONENTS NUMERICAL LISTING

QC #	Components	Qty.	Application
<b>97-10B</b>	96-1760CB	8	GDI, GMM, GM
	96-2228SC	1	GDI, GMM, GM
	96-250HCPP	7	GDI, GMM, GM
<b>97-78SS</b>	96-1010SCSS	11	CAT
	96-1510SCSS	11	CAT
	96-760CSS	1	CAT
<b>97-79SS</b>	96-1135SCSS	4	CAT
	96-1885SCSS	1	CAT
<b>97-80SS</b>	96-1010SCSS	4	CAT
	96-1260SCSS	4	CAT
<b>97-81SS</b>	96-1010SCSS	6	CAT
	96-1260SCSS	7	CAT
<b>97-82SS</b>	96-1010SCSS	10	CAT
	96-1260SCSS	12	CAT
	96-1510SCSS	1	CAT
<b>97-83SS</b>	96-947CSS	8	CUM
<b>97-84SS</b>	96-823SC	2	DDA
	96-947CSS	4	DDA
<b>97-85SS</b>	96-1010SCSS	4	DDA
	96-1640SCSS	2	DDA
	96-2005SCSS	12	DDA
<b>97-86SS</b>	96-1010SCSS	2	DDA
	96-1640SCSS	2	DDA
	96-2510SCSS	8	DDA
<b>97-87B</b>	96-1635CB	8	GDI
	96-16MMC	1	GDI
	96-2109SC	1	GDI
	96-250HCPP	1	GDI
	96-375HCPP	1	GDI
	96-523C	1	GDI
<b>97-97SS</b>	96-1385SC	2	FDI, FOR, IHN
	96-1500CCSG	7	FDI, FOR, IHN
<b>97-98B</b>	96-16MMC	2	GDI, GM
	96-2228SC	1	GDI, GM
	96-250HCPP	5	GDI, GM
	96-375HCPP	1	GDI, GM
	96-41.5MMCB	6	GDI, GM
<b>97-99B</b>	96-1635CB	8	GDI, GM
	96-16MMC	1	GDI, GM
	96-2098SC	1	GDI, GM
	96-250HCPP	2	GDI, GM
	96-461C	1	GDI, GM
<b>97-99-2B</b>	96-1635CB	8	GDI, GM
	96-16MMC	1	GDI, GM
	96-2098SC	2	GDI, GM
	96-250HCPP	2	GDI, GM
	96-461C	1	GDI, GM
<b>97-100B</b>	96-1635CB	8	CHC, GMM, GM
	96-2109SC	1	CHC, GMM, GM
	96-250HCPP	5	CHC, GMM, GM
	96-461C	3	CHC, GMM, GM
	96-523C	3	CHC, GMM, GM
<b>97-121SS</b>	96-1510SCSS	5	FDI, FOR
	96-1760SCSS	1	FDI, FOR
	96-500HCPP	1	FDI, FOR
	96-823SC	1	FDI, FOR
<b>97-135B</b>	96-125HCPP	3	GDI, GM
	96-1635CB	6	GDI, GM
	96-2228SC	1	GDI, GM
	96-250HCPP	9	GDI, GM
	96-375HCPP	5	GDI, GM
<b>97-136SS</b>	96-1510SCSS	7	FDI, FOR
<b>97-163SS</b>	96-1010SCSS	4	CHC, CUM
	96-1260SCSS	1	CHC, CUM

QC #	Components	Qty.	Application
	96-2285SCSS	6	CHC, CUM
	96-2375CC	1	CHC, CUM
	96-697SC	2	CHC, CUM
<b>97-302SS</b>	96-2285SCSS	5	CUM

Brass (B Suffix) And Stainless (SS Suffix) Listed.

All Brass Kits Avail. In Steel - Delete B Suffixes

# O.E. AND COMPETITOR INTERCHANGE

Allis-Chalmers		Case		Caterpillar		Caterpillar	
139308	32-1063	05750AB	34-123	1031800	37-7782	1540889	10-13327
205215	30-1853	09761AB	32-763	1032454	32-04063	1559504	22-1656-1
206875	30-1854	1019739M1	30-1833	1036304	10-1911	1564168	22-1891-1
206877	10-155	251103R1	30-4944	1047184	10-1584S	1578373	87-2911
206878	10-154	251261R3	10-485	1051779	10-1579S	1590300	87-2911
206879	32-414	4761971	36-2302	1054232	87-4232	1597303	32-1241
206880	34-555	4A41726 (SET)	10-691	1061111	10-1468S	1614280	10-1580
209103	34-613	4A41727 (SET)	10-690	1070265	22-2004-3N	1621589	30-3037
209132	10-169	5619A	30-1577	1070268	22-2049-1	1632432	10-1579S
209134	10-168	57765H	30-1458	1085902	10-1462S	1632442	10-2260S
218126	30-1854	6321A	30-1829	1085910	10-1911	1632444	30-3058
226000	30-1854	6529A	30-1830	1085911	10-1912	1632478	38-229-45
228589	10-154	675574C3	10-1520	1085912	22-1891-1	1639063	22-1969-4N
229143	10-168	68009S	30-1458	1090390	30-8531	1662903	87-2903
229405	10-626	830762M91	30-1833	1090390	30-3037	1662904	87-2904
229911	30-1853	8744	30-4941	1136180	10-1580	1663739	87-4239
231671	10-626	A11803	30-1865	1152358	22-1812-7	1737188	30-7216
231672	10-155	A150225	10-1650S	1152367	10-1468S	1753617	22-1891-1
2348241	30-1854	A182173	10-1511	1152368	10-1462S	1757523	32-04001
234829	10-155	A26130	30-1577	1161102	87-1102	1757526	32-04000
241527	10-168	A27872	34-221	1167553	30-3037	1799454	22-1812-8
241535	10-626	A29954	30-1873	1185569	30-3007	1838172	30-3014
241536	30-1421	A29954	30-1673	1191036	38-3036-45	1845494	30-3035
257363	10-882	A29955	30-1872	1193036	38-3036-45	1845495	30-3036
4020080	10-1524	A30270	30-1673	1193061	87-3061	1862001	37-2001
4020682	30-6730	A38422	10-691	1196772	10-1497S	1883122	10-2261
4022595	30-6730	A38423	10-690	1212028	10-1804	1906115	32-04027
4022595	30-7813	A41726	10-691	1219835	10-1805S	1906117	32-04028
4023378	10-1524	A41727	10-690	1219839	10-1805S	1916760	22-2368-2N
4023379	10-1523S	A41753	10-1511	1220321	10-1831S	1916766	30-3139
4023380	22-1486-1	A41754	10-1512	1220322	10-1830S	1920509	10-1911
4023382	22-1609-1	A41783	30-7444	1225963	22-2368-3N	1929213	10-1582S
4028641	22-1814-1	A4355A	30-1814	1227353	10-1857S	1944897	10-2168S
4028642	22-1670-1	A58619	22-1946-1N	1227374	30-3014	1944901	32-04901
4028643	10-1525S	A58626	10-1512	1227375	30-3007	1944902	32-04902
4029271	10-1526	A58627	10-1511	1228612	30-3007+5	1976995	30-3042
4035186	32-1165	A66191	22-2100-1	1233984	30-8485	1976999	37-6999
4036609	10-1525S	A66192	22-1946-1N	1242692	10-1582S	1977006	38-856-45
4037135	10-1526	A66444	32-1158	1242693	10-1581S	1977062	37-7062
420030	30-1956	C5549A	30-1813	1302607	22-2387-2	1977063	37-7063
4336129	32-967	F600I235	30-1515	1302608	22-2366-2N	1986529	22-1687-4N
4336130	32-968	G10004	32-762	1302613	30-8679	1N4885	10-1146S
4336586	30-5745	G11947	10-691	1309004	22-1969-4N	1N4886	10-1146S
4356080	34-614	G11948	10-690	1314340	22-2366-2N	1P1081	10-1145S
4359192	30-6759	G176I200	30-1833	1323214	30-8592	1P2629	10-1145S
4359193	30-6760	G2033	30-1873	1337029	10-1581S	1P407	10-1146S
4390547	30-6628	G2068	30-1875	1339306	30-8679	1P6837	22-2004-2
4390548	30-6629	G2069	30-1874	1360819	10-1579S	1S2894	22-1505-1
4391776	30-6758	G47110	10-691	1369630	22-2387-1	1S2898	34-614
4500166	30-1703	G47111	10-690	1376718	32-04021	1S2899	30-6862
4504475	30-1851	J901187	30-8122	1376856	38-856-45	1S2903	10-1350S
4504476	30-1852	J904408	30-8177	1381999	22-1812-8	1S3062	87-3062
4512120	10-989	J904409	30-8178	1382053	36-7014	1S5738	22-2435-2N
4512121	10-990	J920867	10-1665	1403039	32-04021	1S6653	30-7338
4512172	32-893	J920868	10-1664	1406188	32-04020	1S6654	30-6469
4512459	10-1073	J921444	10-1666	1409670	30-3038	1S8143	10-1351S
4513115	30-1943	J924492	10-1667	1457390	10-2161S	1S9910	30-7338
4513354	30-1852	VT131	30-1673	1478211	10-2160S	1W1801	22-2367-1
4513700	30-1944	VT3234	34-555	1478214	38-3036-45	1W1816	30-7604
4514298	10-1042	VT3372	32-480	1478218	22-1814-4S	1W1817	10-1459S
4514299	10-1041	VT366	30-1872	1478220	30-3039	1W1818	10-1459S
5120930	30-1680	Y4001215	32-495	1479220	30-3039	1W1819	10-1458S
5178590	30-1680			1487425	30-3037	1W1822	10-1460S
7324451M1	30-1956	<b>Caterpillar</b>		1487455	10-1761S	1W2713	22-1693-8N
74035186	32-1165	1007860	10-1760S	1487502	30-3037	1W3359	10-1498S
800324	30-1678	1007861	10-1761S	1511329	30-8485	1W3859	10-1462S
8BA6510	30-1614	1008150	30-8592	1527582	22-1687-1N	1W3860	10-1468S
957E6510B	30-1956	1017788	36-7083	1527585	10-1912	1W4259	32-1240
U3142	30-1421	1018314	10-1632S	1528380	10-1911	1W5283	22-1687-1N
		1026229	38-229-45	1537023	10-1911	1W5300	37-7782
		1026229N	38-229-45	1537024	10-1912	1W5321	22-2004-2
				1540888	10-13326	1W8606	10-1461S

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Caterpillar		Caterpillar		Caterpillar		Caterpillar	
2061541	30-3140	3N1414	30-3N1414	6I4014	22-1687-4N	8M9810	22-2503-1
2064442	22-2388-1N	3S0461	37-9461	6N2236	30-7255	8N0875	10-1205S
2102529	10-1805S	3S3018	32-1241	6N7154	37-7175	8N3723	10-751S
2102542	10-1804	402022507	10-1880	6N7174	38-7174-35	8N3724	10-753S
2113122	32-04001	402022508	10-1881	6N7175	37-7175	8N3725	10-1145S
2113123	32-04000	402022516	10-1882	6N8847	30-7357	8N5645	10-1379
2120932	10-2259S	4F212	10-319	6N9915	10-1577	8N7782	37-7782
2120933	10-2258S	4F213	10-318	6N9916	10-1489S	9H9164	32-817
2120936	22-1687-5S	4F6949	30-1711	7C1586	10-1581S	9L7682	10-1379
2128917	22-1479-1S	4H0621	30-1888	7C2353	10-1461S	9L7683	10-1378
2128918	22-1459-1	4H9804	10-751S	7C2354	10-1461S	9L8368	10-1379
2137536	30-3051	4H9805	10-752S	7C4273	32-04008	9L9630	36-2073
2137537	30-3052	4M4320	22-2590-1	7C5215	10-1582	9M3204	22-2004-2
2140586	32-07083	4N2803	30-7216	7C6217	10-1498S	9M3205	22-1812-1
2143286	22-1813-1	4N3664	30-7083	7C8581	37-7977	9M4163	10-753S
2146051	38-3044-4S	4N3665	30-7255	7E1551	30-8594	9M5349	32-944
2175213	22-1656-1	4N3667	30-7357	7E3413	30-8485	9M5350	32-945
2243028	10-13151	4N3668	30-7242	7E4609	10-1498S	9M6495	22-1880-2
2243030	10-13033	4N3669	30-7338	7E4610	10-1584S	9M8745	22-2503-2
2244441	32-07082	4N5653	10-1468S	7E5862	22-2387-1	9N2837	22-1912-1
2255495	10-13137	4N5654	10-1462S	7E7830	10-1145S	9N3387	32-1239
2255499	10-13138	4N5893	22-1812-3	7E7977	37-7977	9N3617	32-1239
2271200	87-1200	4N5906	32-1173	7E7978	38-0234-35	9N5125	10-1497S
2272911	87-2911	4N6233	36-7083	7E9577	10-1581S	9N5495	32-1292
2274239	87-4239	4N6761	37-6761	7E9578	10-1582	9N5496	32-1291
2365605	10-1911	4N9623	10-1146S	7F4784	10-574S	9N5786	36-2073
2418382	10-13192S	4P4735	87-4232	7F5310	10-852S	9N6117	10-1314S
2418383	10-13193	4P7135	87-4232	7M0991	22-2435-1	9S9699	22-1687-1N
2418385	32-5005	4S7468	37-7639	7M7358	10-755	9X7430	87-7430
2418386	32-5004	4S8898	22-1812-3	7M7360	10-753S	9Y1847	30-8118
2418388	22-1577-1	4S8902	22-1687-1N	7M7817	10-752S	9Y6882	30-3035
2418389	30-3123	4W1300	10-1498S	7N0359	10-1880	9Y6883	30-3036
2418390	38-6124-5S	4W1670	10-1314S	7N0360	10-1882	9Y7895	30-8220
2479908	32-04000	4W2471	32-1293	7N0572	10-1760S	9Y8847	38-3036-4S
2481467	10-13033	4W2472	32-1294	7N0573	10-1576	9Y8848	30-8590
2503044	38-3044-4S	4W2474	37-2474	7N1649	22-2004-4N	9Y9803	10-1632S
2527801	10-2161S	4W2475	36-7083	7N1650	10-1491S	9Y9804	10-1857S
2527802	10-13032	4W3778	30-7681	7N1819	30-8679		
2595829	30-3123	4W3778 (SR)	30-8357	7N1903	32-2470		
2604856	30-3058	4W3779	30-7682	7N1904	32-2471		
2634920	87-4239	4W3779 (SR)	30-8356	7N2051	30-7338		
2646157	22-1656-1	4W4325	22-1687-3N	7N4310	30-8408		
2682953	30-3058	4W5374	10-1462S	7N4448	22-2049-1		
2816157	32-04901	4W6802	10-1498S	7N4580	10-1468S		
2A4429	34-746	4W7108	36-7083	7N7639	37-7639		
2H3069	36-7013	4W9176	30-8408	7N8855	22-2004-3N		
2M6402	10-1146S	4W9176N	30-8408	7S2514	10-1351S		
2M6403	10-1145S	5H1463	22-2435-1	7S3161	36-2212		
2N8943	22-2150-1	5H1464	22-2590-1	7S6322	30-7357		
2N9298	30-7074H	5M1889	22-1687-1N	7S6323	32-1012		
2N9299	30-7073	5M5828	10-574S	7S6366	30-7357		
2N9300	10-1461S	5M8023	30-1906N	7S6767	10-1205S		
2N9301	10-1476S	5S1757	22-2590-1	7S7144	32-948		
2P1262	30-7194	5S2921	30-6881	7S8809	10-1314S		
2S0893	30-6470	5S4507	30-1906N	7W0028	22-2368-2N		
2S4213	32-950	5S5874	37-7782	7W1636	30-8319		
2S5627	32-817	5S6449	10-1203	7W2699	10-1579S		
2S8143	10-1351S	5S6452	10-1204	7W6878	30-8592		
2W2620	10-1490S	5S7218	22-2129-1	7W6884	10-1584S		
2W2621	10-1314S	5S7221	22-2004-2	7W7082	32-07083		
2W2622	10-1462S	5S7232	10-1205S	7W7083	32-07082		
2W2877	10-1491S	5S9291	30-6881	7W7489	30-8220		
2W3211	10-1476S	6H3026	10-318	7W8064	10-1580		
2W4837	22-2004-3N	6I1390	10-1912	7W8065	22-1969-3		
3074641	10-3228S	6I1713	22-2368-2N	7W8809	10-1314S		
3081860	10-13326	6I2307	32-04022	7W9143	38-403-4S		
3081861	10-13327	6I2662	38-0234-3S	8C0563	87-0563		
3107257	87-7257	6I2663	37-7977	8C563	87-0563		
3165976	32-04901	6I2864	30-7681	8H1993	10-852S		
3165977	32-04902	6I2864 (SR)	30-8357	8H1994	10-574S		
3B1143	34-816	6I2865	30-7682	8H7097	10-751S		
3N0515	30-8486	6I2865 (SR)	30-8356	8M4014	22-2435-1		

## Chrysler

04536513	34-06513
04536513AB	34-06513
05080044AB	30-3255
05117402AA	10-2235
1109911	10-349
1109912	10-298
1110407	30-1609
1124659	30-1338
1124959	30-1337
1139373	30-1609
1319089	10-257
133595R1	30-8224
133670R1	30-1817
1486911	30-1740
1614666	34-766
1614730	36-2084
1618636	10-518
1634790	30-1803
1737645	40-2850
17376746	40-2851
1737698	10-520
1739356	36-2084
1739534	32-672
1821238	10-514
1828240	22-1516-1
1850079	10-257
1851672	30-1840
1851674	30-1839
1851767	10-548
1852079	10-257
1852089	10-257
1852247	10-185

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Chrysler	
1852248	10-518
1859623	22-1624-1N
1859793	10-577
1945318	10-514
1947231	10-185
1947623	10-567
1947718	10-1017S
1947718Z	10-1017S
1954291	36-2084
2071103	34-613
2128829	10-567
2203250	36-2084
2206103	10-548
2211432901	30-7576
2211511050	30-7577
2211532901	30-7575
2236132	32-794
2236146	10-883
2236147	10-882
2264658	34-613
2402312	34-613
2402714	10-576
24027140	10-1017S
2465335	10-938
2465339	10-1329
2468038	36-2084
2469501	36-2084
2536979	10-576
2536979	10-1017S
2658471	32-869
2843014	36-2084
2899036	10-1156
2899856	36-2011CCI
2899860	36-976
2899864	36-976
2899872	36-976
3004643	36-2011CCI
3004647	36-976
3004718	40-2851
3004719	40-2850
310458	34-613
3144974	34-555
3151444	36-2084
3156155	10-549
3156156	10-550
3156157	34-766
3160304	36-2011CCI
3172303	36-2011CCI
3172328	10-549
3180454	36-2011CCI
3180609	36-2011CCI
3183979	32-863
3189883	36-2011CCI
3190810	36-2011CCI
3190895	36-2011CCI
3190901	36-2011CCI
3190935	36-2011CCI
3218732	10-1260
3218733	10-1258
3218809	10-1260
3218810	10-1260
3218813	10-1325
3219896	10-1257
3222276	36-2011CCI
3224597	10-1325
3224602	10-1325
3224603	10-1325
3228192	32-1082
3229657	10-1258
3237464	10-1441
3237465	10-1442
3240767	10-1441

Chrysler	
3240768	10-1442
33002400	20-1562-1
33002729	38-925-25
33007142	20-1562-1
3418239	36-2011CCI
3418411	36-2011CCI
3418424	40-2892
3418479	10-1156
3420039	36-2011CCI
3512095	10-1156
3549971	10-567
3549975 (PKG)	10-548
3549979 (PKG)	10-548
3577836	10-548
3614320	36-2011CCI
3614321	36-2011CCI
3671902	10-1265
3751252	36-2011CCI
3751262	36-976
3751267	36-976
381875	34-746
3830705	10-1329
3830715	10-1156
3830721	10-1156
3904408	30-8177
3904409	30-8178
3906206	30-8277
395931	34-743
4006767	36-976
4049338	36-2011CCI
4071003	38-1068-70
4071006	38-1068-70
4095897	36-2089
4100774	40-2893
4105979	10-1265
4106028	36-2089
4186155	36-2084
4201349	34-614
4227660	36-2089
4429097	38-535-45
4429105	10-1665
4429109	10-1664
4429111	22-1722-1
4429277	32-00276
4429408	30-8177
4429409	30-8178
4429854	22-1853-1
4448305	32-672
446723C1	30-7174
4536513	34-06513
4694185	30-8177
4713216	10-1665
4713994	10-1664
4740269	36-2011CCI
4740353	74-6448
4761971	36-2302
4882061	32-02061
5003595AA	36-2302
5011441AA	32-04053
5011441AB	32-04053
5011877AA	10-2015
5011879AA	10-2014
5011880AA	38-0438-45
5011881AA	38-0989-45
5015552AA	74-6448
5073735AA	10-2234
5073738AA	10-2235
5080057AA	38-5080-55
5086290AA	38-5080-55
5086736AA	36-7098
5086861AA	38-9191-45
5086862AA	38-9191-45

Chrysler	
5117399AA	10-2234
5117410AA	22-1088-1
5140913AA	10-13161
5177407AA	22-1160-1
53006677	20-1687-5N
600746	30-1337
6007461	30-1338
643334	34-555
68002237AA	10-13006
711045	10-210
711829	32-466
8122755	10-1260
8122756	10-1258
8122761	10-1325
8122929	36-2011CCI
8123287	34-766
8127694	10-1258
8132235	34-555
8350066	36-2011CCI
925437	10-210
954302	10-185
AW321739	10-10625
J3189833	36-2011CCI
J3218976	38-921-25
J3218976	38-938-45
J3222276	36-2011CCI
J3228192	32-1082
J3229657	10-1258
J3229657	10-1258
J3237464	10-1441
J3237465	10-1442
J3240767	10-1441
J3240768	10-1442
J3242664	38-450-25
J3242864	38-925-25
MD000441	21-1562-50
MD000461	30-7576
MD000471	30-7577
MD000480	10-10076
MD000481	10-10083
MD000500	32-1123
MD002465	21-1375-51
MD002481	10-10083
MD002500	32-1123
MD007783	10-10083
MD008760	34-813
MD020551	30-7574
MD020561	30-7575
MD020580	10-10065
MD020583	10-10064
MD020587	10-10064
MD020588	10-10064
MD024414	21-1750-61
MD024441	21-1500-62
MD024518	10-10092
MD024519	10-10091S
MD024546	21-1625-56
MD024547	21-1625-56
MD024548	10-10091S
MD026514	21-1875-51
MD026515	21-1875-51
MD026517	21-1625-56
MD026518	21-1625-56
MD040539	10-10064
MD050514	21-1750-66
MD061895	34-716
MD070691	10-10141
MD070693	10-10142
MD070694	10-10142
MD072177	36-6000
MD072298	32-1289
MD073398	32-1289

Chrysler	
MD083657	10-10415
MD083659	10-10416
MD083661	10-10415
MD083662	10-10416
MD083848	10-10145
MD083850	10-10146S
MD083851	10-10146S
MD083887	10-10141
MD085253	10-10143
MD085254	10-10144
MD088811	10-10624
MD088812	10-10625
MD093714	36-6000
MD108468	21-1375-51
MD124739	36-900CCI
MD149309	36-900CCI
MD151382	36-6000
MD185850	30-7577
MD197467	38-964-55
MD301712	21-1750-61
MM115880	32-1289

Continental	
1005916M1	30-1673
1019739M1	30-1833
1750069M1	30-1717
200131	10-196
760181M1	30-1701
761648M1	30-1678
800324	30-1678
830762M91	30-1833
830935M91	30-1673
83490M91	30-1717
A600I338	32-480
C00407M91	30-1678
CVT3234	34-555
D600I233	30-1470
E604I202	34-802
F140A216	22-1348-1N
F400I251	30-1962
F400T296	10-170
F600I112	10-810
F600I228	10-170
F600I229	10-810
F600I232	32-466
F600I235	30-1515
F600I238	10-196
F600I242	10-170
F600I244	10-196
F600I248	10-210
F600I249	10-210
F600I265	30-1515
F600I302	10-1148
F600I351	10-170
F600I352	10-196
F600I354	10-210
F6011303	10-1147
G176I200	30-1833
G193I210	30-1970
G193I303	10-1055
H260I200	30-1701
M600I255	30-1487
M600I256	30-1533
N62I200	30-1678
N62I201	32-520
TM27I00316	30-1962
VT131	30-1673
Y400I205	34-822
Y400I209	30-1619
Y400I215	32-495
Y400I232	30-1619

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Continental		Cummins		Cummins		Cummins	
Y400I332	10-1365	218847	10-1721S	3081212	32-1332	3680884	37-2884
Z120I203	10-234	3000926	10-603	3083991	10-1847S	3681071	22-1953-3
Z120I235	34-614	3006456	30-1942	3084020	22-1953-3	3683349	22-1874-2
Z120I326	10-489	3006456	30-7994	3084041	22-1953-2S	3685996	10-13308
Z120T123	10-234	3006457	30-7264	3084045	10-1756	3685997	38-2008-55
Z120T142	10-234	3007225	10-1533S	3084980	10-1847S	3686661	10-13309S
Z120T157	10-234	3007759	87-7759	3086436	10-602S	3800340	10-2188
Z120T161	10-489	3011934	87-0486	3088389	10-1734	3800341	10-2187
Z129I108	10-486	3011935	87-1147	3088391	10-1533S	3800636	10-1663
Z129I204	30-1717	3013330	42-3330	3088393	10-1534	3800637	10-1662S
Z129I205	10-343	3013331	42-3331	3088405	10-1532	3800638	10-1663
Z129I208	10-486	3017544	42-7544	3088978	22-1812-4	3800639	10-1662S
Z129T107	10-486	3017759	22-2003-1	3088980	22-1812-4	3800891	10-1847S
Z129T117	10-343	3018818	30-7373	3090372	30-8496	3801356	10-1532
		30200214	10-2253S	3090703	22-1812-9	3801357	10-1531
		30200215	10-2252S	3090704	22-1812-9	3802005	10-1665
		3020211	22-1853-2	3104445	22-1953-3	3802006	10-1664
		3021693	30-7425	3161423	42-7423	3802083	10-1667
		3024333	10-602S	3166388	42-6388	3802085	10-1666
		3024395	10-1533S	3166410	10-1847S	3802275	10-1667
		3026296	22-2381-1	3166428	42-6428	3802355	10-1665
		3028070	22-1812-4	3170134	38-134-55	3802356	10-1664
		3029333	10-602	3170135	30-8496	3802463	10-1667
		3032285	22-2006-1	3201311	30-7610	3802481	10-1801
		3033231	37-03231	3202210	30-7610	3802658	10-2257
		3033232	32-1296	3226064	10-1656S	3802659	10-1862
		3033233	32-1298	3226068	10-1721S	3802812	10-2255
		3033234	10-1532	3275354	34-05354	3802813	10-2254
		3033235	10-1531	3275355	10-1420S	3802924	10-2014
		3033314	30-7625	3275356	10-1420S	3802967	10-2015
		3033315	30-7625	3275779	10-1420S	3803310	10-1663
		3034827	10-1734	3278173	30-8420	3803311	10-1662S
		3035026	87-5026	3281508	36-2302	3803348	10-1658S
		3035110	10-1533S	3284377	74-6448	3803359	10-1659S
		3035996	32-1332	3328781	38-8781-55	3803360	10-1660
		3036933	42-6933	3328785	30-8210	3803427	10-1659S
		3036934	42-6934	3328786	30-3008	3803512	10-603
		3038904	42-8904	3335341	42-5341	3803513 (Kit)	10-703
		3040830	10-602	3335342	42-5342	3803515	10-1534
		3046430	74-6430	3394115	30-3158	3803517	10-326S
		3050369	30-7994	3395612	22-1722-3	3803518	10-1738S
		3052819	22-2381-1S	3395615	10-2253S	3803519	10-602S
		3052820	10-1738S	3406657	10-1659S	3803520 (Kit)	10-702
		3054590	22-2006-5	3406659	10-602S	3803522	10-326S
		3054600	22-2006-5	3406702	87-6702	3803524	10-602S
		3062096	42-7096	3412352	87-0873	3803528	10-1734
		3064247	34-05354	3412922	42-7922	3803529	10-1533S
		3064281	38-4281-45	3417713	10-1658S	3803730	10-1662S
		3064312	30-8134	3417714	10-1662S	3803770	10-1659S
		3065934	32-04052	3417717	87-7717	3803854	10-1756
		3065936	37-1081	3417778	10-1663	3803995	10-1531
		3068519	10-1660	3417779	10-1662S	3803996	10-1658S
		3068828	10-1663	3418020	10-1663	3804555	10-1847S
		3069692	22-2006-7S	3418021	10-1662S	3818520	10-1531
		3070159	10-1662S	3418040	22-1812-4	3820180	22-1812-4
		3070174	32-05860	3418052	22-1812-5	3820700	22-1812-5
		3070460	32-04004	3606766	38-3966-45	3821234	30-8167
		3070473	10-1659S	3606856	10-1720S	3865237	42-5237
		3070484	34-05354	3629006	32-1171	3883287	10-1658S
		3070486	87-0486	3629007	32-04052	3883512	37-3512
		3071147	87-1147	3630628	32-04052	3884005	10-1720S
		3072321	30-8136	3633840	32-04052	3895110	10-1662S
		3072369	34-05354	3640315	37-1081	3895477	10-1531
		3073509	38-8781-55	3678536	87-8536	3895478	10-1658S
		3073510	38-8781-55	3679537	22-1874-2	3895487	42-5487
		3073512	30-8210	3679551	32-04050	3895488	42-5488
		3074118	30-8167	3679659	22-1874-2	3895860	32-05860
		3076515	22-1953-2S	3680759	10-2263S	3900276	32-00276
		3078399	10-1659S	3680760	10-2262	3900299	37-2299
		3080975	10-1663	3680867	30-3061	3901097	38-535-45
		3080976	10-1662S	3680873	87-0873	3901117	10-1665
		3081081	37-1081	3680883	34-04644	3901177	34-01177

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# O.E. AND COMPETITOR INTERCHANGE

Cummins		Cummins		Cummins		Detroit Diesel	
3901187	30-8122	3943450	22-1375-2N	70843	22-1431-1	5106136	10-1366
3901607	10-1664	3943888	38-3888-45	80610016	22-2006-6S	5109925	10-1018
3901898	74-6448	3944452	37-4452	80610017	10-1721S	5111332	87-1332
3902253	10-1667	3944711	32-04058	80610018	30-7990	5111336	10-1500
3902254	10-1666	3945249	30-8715	90210008	10-1656S	5111337	34-614
3904105	22-1722-1	3945438	38-0438-45	90210012	32-04015	5114288	10-1500
3904364	74-6448	3945866	36-7099	90210013	10-1721S	5116137	10-758
3904408	30-8177	3947759	36-7098	90210014	22-2003-6N	5116196	22-1441-1
3904409	30-8178	3948102	30-8715	90210014	22-2006-6S	5116341	34-309
3904679	74-6448	3948578	38-3888-45	92601	42-9260	5116361	22-1161-1
3904716	22-1857-1	3948888	38-3888-45	93914H	34-803	5116363	22-1161-1+030
3906206	30-8277	3955393	38-9191-45	C0110278101	22-1460-2N	5117561	32-769
3906412	32-06412	3955394	38-9191-45	C0110322601	22-1593-1	5117564	42-7564
3906854	22-1853-1	3957912	38-6114-55	C42336	10-1721S	5119293	87-9293
3907240	36-2302	3957914	37-5666	S2037	34-746	5119992	30-1832
3908830	22-2129-2	3965966	36-7099			5120930	30-1680
3909886	87-9886	3968074	22-1554-2	<b>Daewoo</b>		5125917	10-759
3913038	38-5707-45	3968183	10-13161	90354648	34-5021	5129919	30-1946
3915506	10-1667	3969637	10-13163			5131096	22-1628-2
3915707	38-5707-45	3969637	10-2187	<b>Detroit Diesel</b>		5131614	22-1161-1
3916588	32-06412	3969704	22-1554-1	10137454	10-1482S	5131961	30-6254
3916691	32-04049	3970727	10-2188	14025510	10-1518	5131973	38-1053-75
3920867	10-1665	3970727	10-13163	14025511	10-1483S	5135267	40-5267
3920868	10-1664	3972757	37-2757	14033927	10-1484	5135268	40-5268
3921444	10-1666	3979602	10-13006	14033928	10-1482S	5138653	30-6546
3921640	38-535-45	3991085	32-06412	14050661	10-1482S	5139982	22-1899-1
3922713	10-2257	3991267	38-3888-45	23500054	10-1482S	5140061	10-1530
3922714	10-1862	3999907	32-1595	23500056	10-1483S	5142777	10-1500
3922715	22-1853-2	4003965	38-3966-45	23500058	10-1484	5142960	10-411
3922716	22-1722-3	4003966	38-3966-45	23500061	10-1483S	5144019	32-939
3923262	74-6448	4025956	42-5956	23500480	38-4800-80A	5145172	10-759
3923564	30-8122	4026069	10-1663	23500501	10-1500	5147347	32-769
3924492	10-1667	4026657	30-3061	23500714	42-5714	5147424	32-1189
3924582	22-2129-2	4026660	38-6791-45	23501576	10-23501576	5148472	40-8472
3924583	22-1857-1	4026791	38-6791-45	23501576	10-1567	5148475	40-8475
3925031	36-2302	4059215	22-1953-3	23501577	10-1566	5148489	10-1366
3925175	10-1801	4059326	10-2262	23501577	10-23501577	5148490	22-1442-1
3925176	22-1722-1	4059327	10-2263S	23501580	87-1580	5149042	10-1366
3925177	22-1853-1	4062872	32-04015	23502067	10-1455	5149386	10-1429S
3925666	37-5666	4089672	10-13161	23502068	10-1456	5149724	87-9724
3925667	32-04049	4089761	10-2188	23505104	30-8133	5149742	10-1455
3925863	30-3068	4089761	10-13163	23505104	30-8133	5149743	10-1456
3925863	30-8122	4089762	10-13163	23506350	10-1566	5149771	10-1366
3926700	32-02061	4089762	10-2187	23507238	34-555	5150041	87-5981
3927254	10-2255	4090442	10-2252S	23507504	10-1566	5150289	32-454
3927255	10-2254	4101454	10-2263S	23512120	32-04003	5150322	42-5714
3927256	22-2126-2	4312008	38-2008-55	23515391	30-8431	5160037	87-4701
3927257	22-1857-2	431200800	38-2008-55	23515470	87-5470	5178590	30-1680
3927642	38-5707-45	4429206	30-8277	23517058	22-1819-2	5185327	10-327
3928174	22-1857-1	4429408	30-8177	23518571	30-8591	5186381	10-411
3928174	22-1857-3	4429409	30-8178	23518572	30-8591	5186858	74-6858S
3929005	22-1857-1	4761971	36-2302	23518745	10-3193	5193197	10-327
3930057	38-0057-45	4891226	36-7098	23519090	22-1628-4	5193198	10-411
3931623	36-2302	4923471	30-3008	23519093	10-3192	5193666	10-411
3932453	32-02061	4926069	10-1663	23520148 (KIT)	10-3192	5194968	10-1500
3933088	22-1857-2	4931931	32-1595	23520149 (KIT)	10-3193	5195167	10-1500
3940152	22-1554-1	4934063	30-8715	23523930	38-502-55	5195948	10-758
3940153	22-1554-2	4936076	32-04058	23524521	10-1566	5196606	10-759
3940734	10-2015	4936079	32-04058	23529004	10-13000	5197176	10-1018
3940735	10-2014	4936080	32-04053	23529596	10-13001	5199323	10-759
3942298	22-1375-1	4936380	32-04053	23529629	10-1567	5199527	87-5606
3942299	22-1375-2N	4955212	10-13006	23533147	87-3147	5199528	87-9528
3942565	36-7097	4955239	10-1663	23533148	87-3148	5199906 (KIT)	10-1530
3942571	38-0989-45	4957806	32-04015	23533552	30-8591	5199938	10-1366
3942572	38-0438-45	4965868	10-2262	23535122	32-04054	6310193	30-7563
3942588	10-2188	4965891	32-04050	23535296	32-09415	7129248	30-7563
3942589	10-2187	4994143	10-1664	4730500126	10-3220	7134379	30-7563
3942645	30-8715	4995554	10-1665	4730500127	10-3221S	7135923	30-7564
3942989	38-0989-45	66890	30-1969	5101101	22-1262-1	8380291	34-555
3943161	32-04053	68512	42-7544	5101102	22-1262-1	8920119	10-1456
3943198	37-3198	69965	22-1847-1	5104280	10-1429S	8920390	87-0390
3943449	22-1375-1	70671	10-326S	5104701	87-4701	8920404	87-9724

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## Ford

E7TZ6057A	22-1781-1N
E7TZ6505D	10-1547
E7TZ6507D	10-1548S
E8AZ6571A	38-925-25
E8TZ6505B	10-1542
E8TZ6505C	10-1542
E9TZ6513A	32-991
E9TZ6513A	32-1420
EAD6500	36-2083
EAF6505D	10-348
EAF6505D2	10-348
EAF6510C	30-1726
EAM6518A	34-165
EBJ6500A	36-2083
EBP6505A	10-375
EBP6507E	10-373
EBP6507N	10-373
EBU6507A	10-376
EBU6514A	34-555
ECK6505A	10-375
ECR6507F	10-494
ECU6500A	36-2083
ECV6500A	36-2083
EDB6507A	10-494
EDG6500A	36-2083
EZZ6513A	32-535
F0HZ6507A	10-1757
F0HZ6513A	32-219
F1AE6518BA	34-281
F1AZ6518A	34-281
F1DZ6500A	36-900CCI
F1HZ6057A	38-403-45
F1HZ6571B	38-403-45
F1JE6505AA	10-1504S
F1JE6507AA	10-1120
F1TE6507HA	10-1548
F2NN6518AA	34-613
F2TZ6507A	10-1548
F3TE6507JA	10-1723
F3TZ6505B	10-1754
F3TZ6507D	10-1723
F3TZ6507E	10-1723
F3XY6057A	21-1750-66
F4TE6505EB	10-1504S
F4TZ6505A	10-1786
F4TZ6505B	10-1504S
F4TZ6505C	10-1786
F4TZ6507A	10-1785
F4TZ6507B	10-1785
F4TZ6518A	34-613
F4TZ6565A	74-6611
F4TZ6571A	38-173-45
F4TZ9F538A	87-4376
F5RZ6518B	34-281
F5TZ6510A	30-8476
F6JL6505AA	10-1504S
F6JL6507AA	10-1875
F7TZ6571AB	38-844-45
FODE6500AA	36-900CCI
PB8M6500A	36-2083

## General Motors

10045251	10-1294S
10069213	10-1261S
10089648	41-1736
10112680	40-2867
10114116	10-1235S
10114119	38-119-35
101321082	38-827-45
10137454	10-1482S
10149663	10-1780S

## General Motors

10212810	38-371-45
10212811	32-1680
10240896	10-1261S
10240898	32-04013
10240899	37-2899
10241740	74-6373
12338631	20-1375-2
12339069	20-1750-2
12339070	20-1500-1
12350995	20-2125-38
12350996	20-1937-17
12350997	20-1812-4N
12350998	20-1812-9N
12350999	20-1812-5N
12523971	40-2754
12529742	30-9946
12550002	36-2148G
12551397	36-2279G
12552289	10-1807S
12556601	38-811-55
12556295	74-6638
12556296	74-6639
12556320	32-04042
12557928	30-3024
12558674	38-371-45
12558849	10-2126S
12564012	36-2148
12564852	38-371-45
12565763	32-2522
12576400	36-2148
12576400	36-2148
12624396	38-6132-55
12636393	55-6066
14025512	32-1220-D
14033927	10-1484
14033928	10-1482S
14042575	37-4003
14045145	10-1261S
14075629	74-6230
14075631	74-6380
14081040	10-1578S
14081046	37-1046
14087525	10-1235S
14091408	10-1578S
14095256	74-6034
14096684	10-1164
14097045	10-1164
14103192	10-1261S
1625100	20-1625-1
17085565	36-969
17085566	36-817CCI
17089852	36-2148
17102660	36-969
17109057	36-2148
17120060	36-2279
17120061	36-2279
17120090	36-2148
17120735	36-2148
17121905	36-2148
17121905	36-2148
17122490	36-2148
18120004	20-1812-4
22531217	38-827-45
22531220	34-510
23500061	10-1483S
23500283	10-1780S
23502552	38-552-45
23503994	74-6609
24503856	34-555
2465337	10-938+15
25341990	36-2148
25342148	36-2104

## General Motors

25518390	38-450-25
33002729	38-535-45
336733	10-1294S
340226	10-1294S
353075	32-1041-D
360506	38-535-45
3779410	36-969
3799644	36-817CCI
3814692	42-2921
3836006	42-2941
3856860	32-816-D
3864808	10-1164
3866612	38-910-25
3869997	36-817CCI
3887125	32-864-D
3896931	32-880-D
3904295	42-2941
3911068	32-880-D
3921912	42-2941
3947770	34-555
3947880	34-613
395931	34-743
3969815	10-1164
3970627	32-1009
3973186	10-1235S
460483	38-925-25
460483	38-938-45
460527	38-910-25
477292	32-1038-D
5117561	32-769
5144019	32-939
5147347	32-769
5147424	32-1189
5231315	36-992
5231430	36-969
5231465	36-969
5231475	36-817CCI
5231585	36-992
5232100	36-969
5232110	36-969
5232215	36-992
5232280	36-817CCI
5232439	36-992
5232445	36-969
5232450	36-817CCI
5232510	36-969
5232550	36-992
5232565	36-969
5232660	36-817CCI
5232670	36-817CCI
5232695	36-992
5232700	36-817CCI
5232720	36-817CCI
5232765	36-969
5232810	36-969
5233410	36-969
5233465	36-2104
5233515	36-969
5233645	36-2104
5233645	36-2104
5233645	36-2104
5233745	36-2148
5234200	36-969
5234295	36-2104
5234305	36-6005
5234315	36-969
5234330	36-969
5234360	36-969
5234464	36-2104
5234470	36-2104
5234530	36-2104
5234625	36-2104
5234670	36-2148

## General Motors

5234680	36-2104
5234755	36-2104
5234890	36-2148
5234890	36-2148
5234935	36-969
5235498	36-2148
536264	38-450-25
6263732	10-1261S
6263796	32-1038-D
8132248	36-969
838029	34-555
8940512590	87-1259
8971884630	87-8463
90354648	34-5021
94029345	21-1437-58
94029346	21-1625-55
94029351	10-10216
94030688	10-10216
94030689	10-10217
94032687	30-8023
94047955	30-8024
94051259	87-1259
94325528	21-1187-52
94450950	21-1187-52
94450951	21-1375-51
97188463	87-8463
97212571	22-1343-1
97212572	22-1264-1
97212994	38-299-45
97225124	32-04041
97225507	10-2175
97225508	10-2176
97250340	30-3049
97329105	32-04041
9779008	32-813
98025825	32-04041

## Hercules

141021	30-1618
225014	30-1843
29288A	30-1568
402022507	10-1880
402022508	10-1881
43010A	30-1618
43076A	30-1618
47018A	30-1697

## Hino

111311040	22-2051-1
111311210	22-1620-1
111311230	22-2051-2
111311260	22-2405-1
111351050	22-1796-1
111351290	22-2169-1
111351320	22-1834-1
111351420	22-1796-2

## International/Navistar

124476R1	10-601
127201R1	10-600
129597R1	10-601
133595R1	30-1816
133670R1	30-1817
133703R4	10-1301S
151269R2	10-560
151443R2	10-559S
151443R3	10-559S
151798R1	30-1836
1700591C1	22-1973-1
1700609C1	22-1775-1
1701325C1	10-1648

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## International/Navistar

1802340C1	36-2082
1804330C1	10-1543
1804330C2	10-1543
1804338C1	74-6608
1804420C91	38-844-45
1804468C1	10-1542
1805249C1	22-1669-1
1805250C1	22-1957-1
1805407C1	30-7689
1805917C1	10-1542
1809323C1	10-1542
1809570	36-7096
1810086C1	10-1574S
1810086C2	10-1574S
1810944C1	34-00944
1811191C1	10-1542
1811191C2	10-1542
1811191C3	10-1542
1811581C91	37-1581
1814280C1	10-1786
1814376C1	87-4376
1814424C1	10-1785
1815264C1	30-8188
1815374C1	38-466-45
1815474C1	38-466-45
1816179C91	38-173-45
1816638C2	10-1754
1818579C1	10-1900S
1818580C1	10-1899
1818778C1	87-8778
1818778C2	87-8778
1818778C3	87-8778
1820264C1	30-8476
1820826C91	37-9826
1821900C1	22-1823-1
1821901C1	22-1823-1
1821903C1	22-1811-2N
1821903C3	22-1811-2N
1822245C1	38-2245-45
1822862C1	30-8476
1823452C1	10-1786
1823453C1	10-1785
1823875C1	10-1945
1823924C93	40-3924
1823925C1	38-3295-45
1824642C1	10-1943
1824642C2	10-1943
1824644C1	34-04644
1824646C1	30-3006
1824647C1	30-8188
1824680C1	37-4680
1824683C1	38-0234-35
1824838C1	10-1900S
1824840C1	10-1946S
1824840C2	10-1946S
1824842C1	10-1944S
1825540C1	32-04009
1826471C1	10-2131
1826471C2	10-2131
1827121C2	22-2001-2
1827195C95	40-7195
1828320C1	87-8320
1830711C1	22-1811-3
1833382	87-8778
1833432C1	38-3432-55
1835655C1	37-5655
1835851C1	22-1584-1
1835852C1	22-1480-2
1835858C1	32-04047
1839968CA	10-13002
1839970C1	10-13003S
1841095C1	87-1095

## International/Navistar

1841538C1	30-3079
1842137C1	22-1584-1
1842138C1	22-1480-2
1842146C1	32-04047
1842912C1	10-1946S
1842913C1	10-2131
1850019C1	30-3079
1854006C1	10-13182
1854007C1	10-13183
185403R2	10-1475
1873916C2	74-6662
217158R91	36-855
217158R92	36-855
223717R11	32-887-D
232717R11	32-887-D
234275R1	10-600
234276R1	10-601
237248R1	30-1747
251103R1	30-4944
251261R2	10-485
251261R3	10-485
251262R1	32-502
277577R1	30-6913
278301R1	10-593
278302R1	10-592
278370R1	30-1881
3044492R1	30-1963
3044493R1	30-1964
3044493R3	30-1964
3055022R2	30-7548
3055055R2	10-10766
3055056R2	10-10767S
3055060R1	32-04056
3055344R1	87-5344
3136915R2	10-10767S
313774R1	10-922
3156157	34-766
317365C1	32-1178
317365C11	32-887-D
321843C1	30-1940
323774R1	10-922
323800R1	10-921
326503R1	87-6503
326505R3	30-1957
328300R1	10-592
341059R1	30-6914
341350R1	10-923
343433R1	10-924
343433R2	10-924
349381R1	10-921
352177C1	10-1152
352973R2	30-1636
352973R3	30-7408
356583R1	30-1804
357547R1	10-485
362435R1	10-428
362436R1	10-427S
366302R1	10-504
366302R2	10-504
366303R1	10-503
366303R2	10-503
366303R4	10-503
367191R1	10-1075S
368450R1	32-04057
372699R1	10-1075S
372699R2	10-1075S
372699R3	10-1075S
379089C1	20-2000-3N
387095C1	36-2011CCI
41338	34-613
41339D	34-613
42026D	34-555

## International/Navistar

428046C1	30-7336
444829C1	10-1260
445365C1	32-999
445367C1	32-1040
446418C1	10-1432
446571C1	36-2011CCI
446723C1	30-7174
446854C1	10-1431S
446856C1	22-1654-1N
448219C2	30-7457
448229C1	30-7456
448453C2	10-1507
448454C1	10-1506S
46209D	34-614
481812C1	10-1152
487879C1	10-1507
488428C1	10-1432
489101C4	10-1649
489102C2	10-1648
50706DA	10-193
50707DA	10-205
50731DA	10-204
50732DA	10-203
535229R1	30-6990
57698D	10-207
57797D	10-313
57798D	10-312
60437R1	34-802
6088D	30-1543
612312C1	10-921
612313C1	10-923
6169DR	30-7432
61868R11	34-802
62264VA	32-221
62265VA	32-220
6608DR	30-1578
670301C1	22-1657-1
670308C1	10-924
671559C1	22-2001-1
671563C1	22-1628-1N
671599C1	22-1536-2N
671602C1	22-1782-1
675043C1	22-2001-1
675043C1	22-1999-1
675046C2	10-1423
675046C4	10-1423
675439C1	30-7431
675441C1	22-1782-1
675442C1	87-5442
675450C1	22-1628-1N
675450C3	22-1626-1N
675573C2	10-1519
675573C3	10-1519
675574C2	10-1520
675576C1	22-1536-2N
675621	74-5621
676687C1	10-1520
676687C2	10-1520
676687C4	10-1520
676865C2	10-1422S
676865C3	10-1422S
676865C4	10-1422S
677349C1	32-04010
681234C1	38-0234-35
682064C1	32-1178
71339D	34-613
76951R1	34-613
76954R1	32-543
795713R1	30-1976
796122R1	30-1977
8044D	30-1547N
8049DR	30-1545N

## International/Navistar

8198DR	30-1579
8322DR	30-1727
83481R1	10-600
8744	30-4941
874913R2	30-1968
874918R2	10-1133S
90316R3	30-1936
90317R1	30-1696
911776R3	36-2041
<b>Isuzu</b>	
1117110370	22-1894-3
1117110410	22-1894-2
1117110430	22-1539-2
1117150300	22-1973-3
1117150460	22-1973-2
1117150540	22-1854-2
1117150790	22-2052-1
1117210080	30-8024
1125510500	10-10725
1125520250	10-10726
1125690150	38-7120-45
5117110260	21-1437-58
5117150230	21-1625-55
5117210010	30-8023
5117210160	30-7656
5125510240	10-10725
5125510280	10-10216
5125510282	10-10216
5125510300	10-10216
5125520340	10-10217
51255203401	10-10217
5125520342	10-10217
5125520380	10-10217
5125520480	10-10726
8245038560	34-555
890354680	34-5021
8941105590	38-967-55
8941255110	32-04032
8941255110	32-04031
8941332751	10-3222
8942478751	10-3223
8943255280	21-1187-52
8943331140	10-10726
8943944620	22-1894-1
8943951131	10-2237
8943954620	10-2238
8943958820	10-13121
8943958822	10-13121
8943958830	10-13122
8943961720	22-1697-1
8943965980	30-3054
8943966092	38-6115-55
8944284660	38-962-45
8944509500	21-1187-52
8944509510	21-1375-51
8944619580	10-10726
8970287020	10-10725
8970287060	10-10726
8970336730	38-962-45
8970338641	10-2239
8970343790	10-10725
8970850662	10-10728S
8970884600	22-2013-1
8971201670	38-7120-45
8971203070	38-223-55
8971891140	10-2238
8972098762	10-13122
8972098763	10-13122
897212571	22-1343-1
8972125720	22-1264-1

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Isuzu	
8972129940	38-299-45
8973096751	10-3200
8973096753	10-3201
8973096771	10-3201
8980169730	10-3200
8980169741	10-3201
8980258250	32-04041
9117118030	22-1539-2
9117156070	22-1854-1
9117212120	30-8125
94029347	30-7656

John Deere	
A2467R	30-1644
A3618R	10-2635
A5707R	30-1857
AA2333R	10-2635
AA4332	10-2635
AB2859R	30-1600
AM675T	10-663
B1927R	30-1600
B367R	34-746
F727R	30-1932
M100T	10-663
M3036T	30-1859
M40T	30-1858
R102882	38-2882-35
R106829	22-1695-1
R108988	30-3027
R119132	22-1933-2
R121193	22-2051-4
R121812	10-1889
R121813	10-1889
R122035	10-1889
R133891	32-04039
R26108R	10-658
R26109R	10-659
R26123R	10-660
R26125R	32-757
R28653R	30-1897
R28654R	30-1898
R32034	10-1289
R32035	10-1288
R32035R	10-1288
R35431	34-802
R40357	30-1967
R40363	10-1406
R41410	10-1336S
R41411	10-1375
R41413	10-1376S
R41868	22-2212-1N
R41869	22-1919-1N
R43679	10-1375
R43680	20-1937-1
R43681	20-1750-1N
R43883	10-1336S
R43914	10-1404
R44174	10-1289
R44175	10-1288
R45823	10-1406
R48313	22-2136-1N
R48314	22-1991-1N
R49566	10-1409
R49567	10-1408
R49569	32-04037
R49571	32-04038
R501559	87-1559
R502187	32-5012
R502370	10-13247
R502401	22-1951-1
R50356	20-1750-2N

John Deere	
R50357	10-1377
R50358	10-1403
R503971	30-3050
R504060	10-1587
R504061	10-1586
R504235	32-5002
R504713	22-1951-1
R504968	22-1437-2
R504969	22-1476-2
R516892	10-1889
R517011	30-3050
R51734	22-1638-1N
R51735	10-1405
R518327	22-1832-1
R518328	10-13176
R518806	10-13246
R520223	10-13177S
R520224	10-13178S
R522049	22-1638-2N
R52251	10-1234
R52252	10-1233
R527285	22-1638-2N
R527286	30-3131
R52773	36-7015
R53192	30-8004
R59894	22-2136-1N
R60537	22-1991-1N
R63981	10-1590S
R63982	10-1412
R72611	10-1471S
R73064	22-1858-1N
R75690	10-1590S
R78702	20-1750-2
R79623	10-1234
R79624	10-1233
R81086	37-1086
R81087	10-1590S
R83071B	10-1471S
R84618	10-1587
R84619	10-1586
R84976	22-1933-2
R84977	22-2051-4
R85687	22-1695-1
R89219	10-1405
R90601	10-1408
R90602	10-1409
R90692	10-1588
R91822	32-04012
R91889	34-01889
R98062	10-1589
R98063	22-1856-1
RE11410	37-1410
RE517435	87-3935
RE518080	10-1589
RE518081	10-1588
RE518082	22-1476-2
RE518083	22-1437-2
RE518339	87-8339
RE523985	38-6121-55
RE526519	38-6133-55
RE528349	87-8349
RE528634	87-1559
RE529187	38-6122-55
RE530609	87-3609
RE531334	87-8339
RE543935	87-3935
RE60005	37-9005
RE66635	38-6635-45
T11211T	30-1899
T122075	87-2075
T12356T	10-657
T15683T	30-1896

John Deere	
T167T	34-743
T20077	34-613
T20174T	10-1234
T20175T	10-1233
T20286	10-1305S
T23477T	10-1306
T25466	10-1306
T25467	10-1305S
T555T	32-758
T556T	30-1860

Komatsu	
3006457	30-7264
6110131311	30-8159
6127111325	22-2247-1
6127111335	22-2366-1
6127111341	30-8160
6136121320	22-1735-4
6610414210	10-326S
6710414210	10-602
6712414110	10-603

Kubota	
1522113110	10-13022
1522113120	10-13023
1522113240	32-5000
1523113540	30-8347
1523113560	30-8348
1539313110	10-13020
1539313120	10-13021
1551113580	30-8347
1552113580	30-8347
1560113560	30-8348
1731113560	30-8348
17321131560	30-8348
1732113580	30-8347
66535	30-8347
6653587	30-8348

Mack	
12GC129	87-0129
12GC129P1	87-0129
12GC212A	87-212A
12GC411	87-0411
12GC412	87-0412
13GC1238P1	22-2088-1
13GC2226	22-1725-2N
13GC2233	22-2088-1
13GC2247P1	22-2088-1
13GC2248P1	22-1841-1
13GC2251P1	22-1831-1
13GC2264P1	22-1692-1N
13GC2290	22-1692-1N
13GC2292	22-1692-1N
13GC316	22-1831-2
13GC317	22-1692-1N
20536487	87-6487
20704947	87-0129
20904074	30-3157
20904074	30-3278
25096282	10-3042
3183210	32-5014
3183211	32-5013
446GC279	38-545-45
446GC296	38-6328-55
446GC328	38-6328-55
446GC332	38-2000-55
54GC120	34-802
54GC126	34-802
54GC19	34-810
54GC25	34-05425

Mack	
575GC1100	32-1216
575GC1115	32-04023
575GC146	32-467
575GC14A	32-466
575GC199	32-1217
575GC213	32-04011
575GC31	32-1217
575GC35	32-04024
575GC36	32-04024
575GG172	32-695
688GC185	10-1037
688GC2325	10-1037
688GC2325A	10-1037
688GC2352	10-1037
688GC2352A	10-1037
688GC2361A	10-1037
688GC2364	10-1446
688GC2378	10-1570
688GC2389	10-1750
688GC337	10-1446
688GC337A	10-1446
688GC344	10-2095
688GC416	10-3041
690GC122	10-1036S
690GC2114B	10-1036S
690GC2187	10-1036S
690GC2187A	10-1036S
690GC2187B	10-1036S
690GC2193	10-1415S
690GC2210	10-1571S
690GC331	10-1415S
690GC331A	10-1415S
690GC342	10-3042
690GC410	10-1928S
690GC411	10-1928S
690GC417	10-1910S
690GC425	10-1928S
690GC432	10-1928S
714GB118	30-1533
714GB1308P2	30-1809
714GB1309	30-1810
714GB17	30-1487
714GB199A	30-1515
714GB210P2	30-7592
714GB217P2	30-8007
714GB217P2	30-8008
714GB222P2	30-8010
714GB222P2	30-8009
714GB26P2	30-8105
714GB3103P2	30-8010
714GC3111	30-3043
714GC3113A	30-3043
722GC219A	37-9226
722GC226	37-9226
722GC313A	37-2313
722GC320	37-9320

Mazda	
022112123	34-213
037012113A	34-212
055212121	10-10745
055212121	10-10744
063610104B	30-8013
22112123	34-213
37012113	34-212
55323200	30-8171
60323200	30-8171
817310155A	38-966-55
900525821	10-10744
900525826	10-10745
AM01109V50	21-1875-51

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## Mazda

AM15109V6	21-1625-56
AM1512111	10-10145
AM15129X0	36-6000
F80112111	10-10236
F80112111A	10-10236
F80112114C	32-1370
F80112115A	32-1368
F80112121	10-10237
F80123090	30-8172
F80412121	10-10237
FB0123200	30-8172
FS0112114	34-212
HE1910155	38-966-55
ZZM312114	34-281

## Mercedes Benz

3520531229	30-3071
3660530230	30-3072
4730500126	10-3220
4730500127	10-3221S
6110530329	30-3255
9060500226	10-3188
9060500326	10-3188
9060500327	10-3189
9060530129	30-3276
9060530131	22-1382-2
9060531232	22-1578-1
A4730500126	10-3220
A4730500127	10-3221S
A6110530232	22-1088-1
A6110530431	22-1160-1
A6120500058	38-5080-55

## Minneapolis Moline

10A10073	10-159
10A20408	10-983
10A26421	30-7371
10A26467	30-7372
10A27215	38-1055-70
10A29501	30-7420
10A29502	30-7421
10A5988	30-1891
10A6397	10-861
10A6467	30-7372
10A6555	34-803
10A6912	30-1914
10A9108	10-160
10R34	10-283
10R35	10-160
10R36	10-159
29288A	30-1568
KE283B	10-160
KE284B	10-159
RE103B	10-283

## Mitsubishi

2211411050	30-7576
2211432901	30-7576
2211511050	30-7577
2211532901	30-7575
2461032824	36-6000
MD024499	10-10091S
MD024539	10-10091S
MD024638	10-10092
MD050523	30-7850
MD050527	30-7851
MD061895	34-813
MD083849	10-10145
MD096219	10-10625
MD197467	38-964-55
MD301339	10-10624

## Mitsubishi

MD301340	10-10625
MD339767	36-6000

## Nissan

1109810W10	21-1812-56
1109877A60	21-1250-50
11098K0400	21-1812-50
11098N6810	21-1812-50
1109910W10	21-1625-60
1109953F60	21-1312-52
1109984A60	21-1375-51
1109988A60	21-1375-51
1109997E60	21-1312-52
11099H6210	21-1312-52
11099N6800	21-1500-54
11099N6810	21-1500-54
11099U0610	21-1500-54
1201030W01	30-7828
1201083W01	30-7828
1320101B00	10-2243
1320101W00	10-10748
1320101W01	10-10750
1320110B00	10-2243
1320150K00	10-2243
13201F1800	10-10752
13201H6200	10-10031
13201L2000	10-10275
13201N8501	10-10268
13201P0500	10-10752
1320201W00	10-10749
1320201W01	10-10751
1320250K00	10-2244
13202H6200	10-10033S
13202L2000	10-10276S
13202N8500	10-10269
13202P5100	10-10753
13203H1000	32-1048
132070B000	38-985-55
1320721002	38-962-45
1320753F00	38-985-55
1320766700	38-667-45
1320781W00	38-962-45
13207D0100	38-985-55
13207D0111	38-985-55
13207H7200	38-961-55
1321101W10	30-7495
1321130001	30-7495
13211V1700	30-8209
13212D0110	30-7826
13212D0111	30-7826
13212H2311	30-7545
13212H8510	30-7545
13212W0510	30-7828
1321301W00	30-7498
1321330001	30-7498
1321330002	30-7498
13213H2311	30-7542
13213W0410	30-7828
13213W0510	30-7828
13214L2000	21-1625-59
13215L2000	21-1500-70
13215L2010	21-1500-70

## Oliver

106608A	30-1947
106609A	30-1953
106612A	30-1954
106620A	30-1927
106623A	30-1923
141021	30-1618
155731A	10-887

## Oliver

156159A	30-1951
159187A	10-882
159188A	10-883
164028A	30-1965
180036A	10-323
222209	30-1952
222536	10-887
224109	30-1924
736296M91	30-1977
736297M91	30-1976
BR195B	30-1470

## Onan

1103496	30-8346
C0110278101	22-1460-2N
C0110322601	22-1593-1

## Perkins

0230001	34-225
0780006	32-1068
0780007	32-1069
0860012	36-0012
120166350	10-13326
120166380	10-13326
120176360	10-13327
120176380	10-13327
2230001	34-225
2236131	32-793
2236132	32-794
2236556	30-1976
2236557	30-1977
2510378	30-1956
3142A051	10-1784
3142A052	10-882
3142A151	10-13138
3142D031	10-5002S
3142D041	10-5001
3142D061	10-5004
3142H041	10-5003
3142H071	10-13137
3142L072	10-5000
3142W004	34-2004
31431103	10-883
31431104	10-882
31431109	10-882
31431154	10-2167
31431261	10-874
31431271	10-873
31431281	10-874
31431311	10-1783
31431315	10-1783
31431591	10-873
31431641	10-883
31431671	10-2166
31431701	10-1798
31431731	10-873
31431871	10-1783
31431881	10-882
31431961	10-1784
31434163	36-7014
31744131	32-793
31744133	32-04043
31745121	32-794
31745122	32-04044
33125121	22-2018-1
3313A012	30-3059
3313E001	30-8013
3313E735	30-8013
33152139	22-1681-3
33152154	22-1690-1
33173108	34-217P

## Perkins

3318A702	30-3105
3318A705	30-3060
33261723	30-1956
33261725	30-8013
33261732	30-1976
33261741	30-8013
33261752	30-1977
33432532	30-7450
3343F002	30-1976
3343F041	30-1976
3343J002	30-1977
3343J021	30-1977
33817117	38-7117-45
4336130	32-968
58261	10-874
58262	10-873
58288	10-874
58289	10-873
70910002	10-873
70910003	10-874
70910009	10-1783
70910010	10-882
70910013	10-1784
70910016	10-883
723812M1	10-873
7324451M1	30-1956
736296M91	30-1977
736297M91	30-1976
74025179	10-1526
795713R1	30-1976
796122R1	30-1977
8662077	32-794
8662107	34-217P

## Thermo-King

113280	30-7875
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## Toyota

1112223010	30-8170
1112223011	30-8170
1112224020	30-8170
1112231020	30-8170
1112240010	30-7538
1112244011	30-8169
1112246010	30-8168
1112260020	30-7532
1112260020	30-7528
1112261011	30-7528
1112261011	30-7532
1112271020	30-8201
1112660021	30-7529
1112660021	30-7527
1112660021U10	30-7529
1112661011	30-7529
1112671020	30-8202
1113111020	21-1187-52
1113124010	21-1500-56
1113161010	21-1937-51
1113163010	21-1687-55
1113513010	21-1250-50
1113542010	21-1187-52
1113560010	21-1625-58
1113571010	21-1500-58
1371123020	10-10758
1371123021	10-10760
1371124011	10-10307
1371144012	10-10754
1371144013	10-10756
1371160021	10-10070
1371161010	10-10070
1371161020	10-10070

# O.E. AND COMPETITOR INTERCHANGE

## Toyota

1371171010	10-10322
1371188360	10-10324S
1371188361	10-10324S
1371523020	10-10759
1371523021	10-10761
1371524012	10-10308
1371524013	10-10308
1371524030	10-10308
1371544012	10-10755
1371544013	10-10757
1371560032	10-10069
1371561010	10-10069
1371561030	10-10069
1371571010	10-10323
1375071010	36-6005
1375071020	36-6005
9050145342	32-1096
9050145459	32-1050
9050146001	32-1313
9091302017	38-971-45
9091302030	38-971-45
9091302033	38-971-45
9091302033B	38-971-45
9091302048	38-971-45
9091302053	38-967-55
9091302064	38-967-55
9091302096	38-967-55
9091302105	38-967-55
9091303005	34-811
9091303012	34-208

## Volkswagen/Audi

036109651A	34-5021
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## Volvo

20441486	10-13301S
20441945	10-13301S
20463800	10-13300S
20536487	87-6487
20740798	10-3226
20768519	10-3227
20789674	30-3278
20817645	30-3278
20817645	30-3157
20833932	10-3196
20833936	10-3197
20904074	30-3157
20904074	30-3278
20905400	30-3157
20905400	30-3278
20919484	30-3157
20919484	30-3278
20980413	10-3196
20997871	10-3197
21098621	87-8621
21310068	32-5014
21351717	87-8621
3165303	30-3157
3165747	87-6487
3183210	32-5014
3183211	32-5013
3183283	30-3157
3183368	87-8621
85104134	87-8621
85124276	87-8621

## Waukesha

103014A	10-912
106608A	30-1947
106609A	30-1953
117159	20-1437-6

## Waukesha

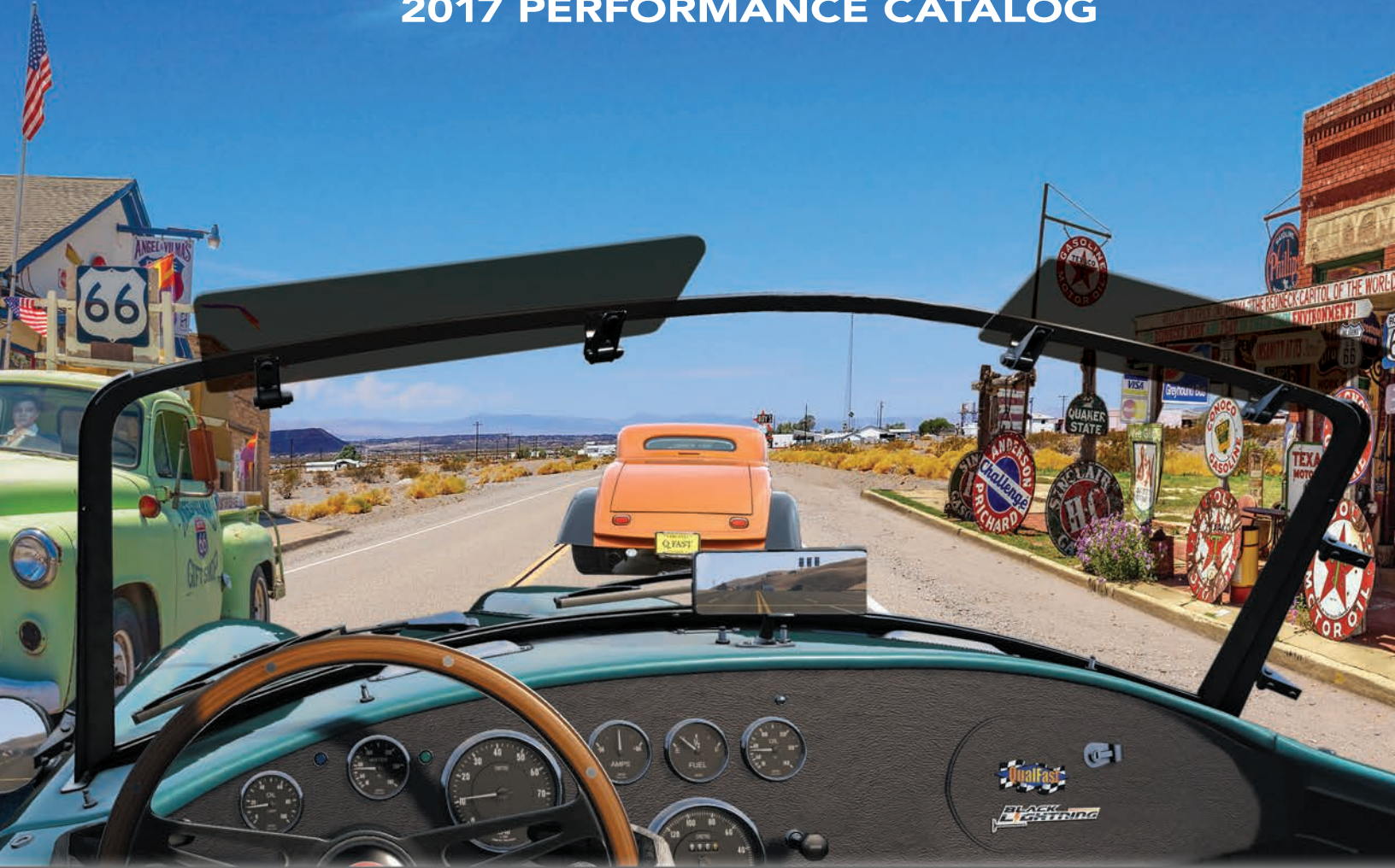
117738	20-2062-8
118654	20-1625-1
118664C	20-1625-1
118665	20-1375-1
118679	20-1250-1
118680	20-1500-1
118941	20-1687-2
119453	20-1750-2
119917	20-2000-14
119984	20-2000-14
11999	20-2000-1
120507	20-1562-7
123109	30-7886
125009J	30-7476
145009	30-1593
145109E	30-7490
145109T	30-1592
151241	20-1812-4
151255	20-1875-6
152511	20-2312-9
164904A	30-1965
180009D	30-1954
180336	10-912
180336A	10-912
181109K	30-1953
204109C	30-7892
204109E	30-8011
222209	30-1952
223009A	30-1965
224609	30-1927
224609C	30-7398
64009	30-1421
68009S	30-1458
73597	22-2506-1
74592	20-1750-0
76408	20-2000-13
936022	10-323
97009F	30-6201
97109D	30-6202
B5685A	20-1625-1
B5746	20-2000-13
B6466A	34-746
B9792	34-123

## Wisconsin

AA91	30-1909
AD41E	30-1907
AD43	30-1909
AD43	30-1908
AD44B	30-6053
AD47	30-1907
AE75B	10-249
AE75C	10-249
AE75D	10-598S
AF49A	32-518
AH9	34-614
MG12154	30-1723



## 2017 PERFORMANCE CATALOG



# QUALFAST STREET PERFORMANCE VALVES

Our "53-" Street Performance valves are made of a high grade stainless (21-2N) steel, for street and mild racing applications, manufactured to the same precision as our other series including swirl polished underheads and undercut stems. Packaged in matched sets of 8 per box.

- \* Swirl Polished Underheads
- \* Chrome-Plated Stems
- \* Wafer-Welded Tips
- \* Undercut Stems



Part No	Head Diameter	Length	Stem Diameter	I/E	Tip	No. Gr	Note
<b>Small Block Chevrolet</b>							
53-100150	1.500	4.910	0.3414	Exh	0.250	1	
53-120150	1.500	4.910	0.3414	Exh	0.290	2	
53-100150+3	1.500	4.910	0.3445	Exh	0.250	1	
53-120160	1.600	4.898	0.3414	Exh	0.290	2	
53-100160	1.600	4.930	0.3414	Exh	0.250	1	
53-100160+3	1.600	4.930	0.3445	Int	0.250	1	
53-1001601	1.600	5.020	0.3414	Exh	0.250	1	
53-100163	1.625	4.908	0.3414	Exh	0.250	1	
53-120184	1.835	4.903	0.3414	Int	0.250	2	
53-120194	1.940	4.870	0.3414	Int	0.250	2	
53-100194	1.940	4.910	0.3414	Int	0.250	1	
53-100194+3	1.940	4.910	0.3445	Int	0.250	1	
53-1001941	1.940	5.010	0.3414	Int	0.250	1	
53-120202	2.020	4.890	0.3414	Int	0.250	2	
53-100202	2.020	4.910	0.3414	Int	0.250	1	
53-100202+3	2.020	4.910	0.3445	Int	0.250	1	
53-1002021	2.020	5.010	0.3414	Int	0.250	1	
53-100205	2.057	4.910	0.3414	Int	0.250	1	
53-1002051	2.057	5.010	0.3414	Int	0.250	1	
53-100208	2.081	4.910	0.3414	Int	0.250	1	
53-1002081	2.081	5.010	0.3414	Int	0.250	1	
<b>Chevrolet LS</b>							
53-108157	1.570	4.920	0.3134	Exh	0.160	1	LS1
53-108159	1.593	4.914	0.3136	Exh	0.204	1	LS3
53-108161	1.613	5.226	0.3134	Exh	0.334	1	LS7, 21-4N Matl.
53-108202	2.020	4.880	0.3138	Int	0.160	1	LS1
53-108216	2.165	4.890	0.3135	Int	0.225	1	LS3
53-108221	2.205	5.226	0.3134	Int	0.334	1	LS7, 21-4N Matl.

Part No	Head Diameter	Length	Stem Diameter	I/E	Tip	No. Gr	Note
<b>Olds / Pontiac V8</b>							
53-350163	1.625	4.711	0.341	Exh	0.250	1	
53-350173	1.720	4.695	0.3415	Exh	0.250	1	
53-401177	1.770	5.090	0.3414	Exh	0..220	1	
53-402177	1.770	5.220	0.3414	Exh	0.220	2	
53-350207	2.070	4.673	0.3415	Int	0.250	1	30 Deg., Not SS, Int. Matl.
53-401211	2.110	5.090	0.3414	Int	0..220	1	45 Deg
53-402211	2.110	5.210	0.3414	Int	0.220	2	30 Deg
<b>Big Block Chevrolet</b>							
53-500175	1.720	5.354	0.3710	Exh	0.220	1	
53-100188	1.880	5.350	0.3414	Exh	0.220	1	
53-500188	1.880	5.360	0.3719	Exh	0.220	1	
53-1001881	1.880	5.450	0.3414	Exh	0.220	1	
53-1018815	1.880	5.500	0.3414	Exh	0.220	2	
53-500207	2.065	5.217	0.3719	Int	0.220	1	
53-500219	2.190	5.217	0.3719	Int	0.220	1	
53-100225	2.250	5.217	0.3414	Int	0.220	1	
53-500225	2.250	5.236	0.3710	Int	0.220	1	
53-1002251	2.250	5.317	0.3414	Int	0.220	1	
53-1022525	2.250	5.467	0.3414	Int	0.220	1	
<b>Small Block Ford</b>							
53-525154	1.540	5.075	0.3410	Exh	0.400	1	
53-527160	1.600	5.074	0.3410	Exh	0.400	1	
53-531166	1.655	5.070	0.3414	Exh	0.270	1	
53-529177	1.710	5.047	0.3414	Exh	0.220	1	
53-526184	1.840	5.070	0.3410	Int	0.390	1	
53-528190	1.900	5.090	0.3414	Int	0.400	1	
53-532204	2.041	5.240	0.3414	Int	0.395	1	
<b>Ford Big Block</b>							
53-535156	1.556	5.445	0.3705	Exh	0.320	1	
53-537166	1.655	5.434	0.3705	Exh	0.320	1	
53-541175	1.740	5.070	0.3414	Exh	0.320	1	
53-539173	1.752	5.434	0.371	Exh	0.320	1	
53-547176	1.760	4.970	0.3410	Exh	0.400	1	
53-534178	1.780	5.070	0.3414	Int	0.400	1	
53-546208	2.083	5.206	0.3414	Int	0.340	1	
53-536209	2.090	5.449	0.3705	Int	0.305	1	30 Deg.
53-530219	2.190	5.225	0.3414	Int	0.280	1	
53-540219	2.190	5.445	0.371	Int	0.320	1	
53-541219	2.195	5.242	0.3421	Int	0.274	1	
53-548225	2.250	5.224	0.3410	Int	0.345	1	
53-542225	2.250	5.298	0.3410	Int	0.290	1	Not SS, Int. Matl.
<b>Chrysler Small Block</b>							
53-700160	1.600	5.005	0.3710	Exh	0.214	4	
53-700202	2.020	4.986	0.3710	Int	0.210	4	
<b>Chrysler Big Block</b>							
53-720174	1.740	4.880	0.3719	Exh	0.220	4	
53-720209	2.090	4.880	0.3719	Int	0.280	2	

## QUALFAST RACING VALVES

Our 12- Racing Valve Series with 21-4N material and racing design specifications is being replaced by the 77-Black Lightning Series. The 77- Series adds Black Plasma Nitriding for the same value. Here are approximate interchange part numbers for your convenience. Please note exact dimensions may be slightly different.

12- #	77-#		12- #	77-#
12-21301	77-230101		12-27116	77-225251
12-27005	77-194001		12-27125	77-173003
12-27006	77-202008		12-27135	77-188003
12-27015	77-202001		12-27139	77-188101
12-27016	77-202101		12-27145	77-225003
12-27026	77-206101		12-27152	77-225101
12-27028	77-208101		12-27175	77-188001
12-27031	77-157008		12-27190	77-230251
12-27035	77-150001		12-27317	77-190021
12-27045	77-160001		12-27337	77-160021
12-27046	77-160101		12-27378	77-219041
12-27105	77-207003		12-27385	77-175041
12-27115	77-219003			

## QUALFAST SPORT COMPACT H.P. VALVES

- \* Premium One-Piece Stainless Steel
- \* Straight and Undercut Valve Stems
- \* Swirl Polished Underheads
- \* Wafer-Welded Tips
- \* Chrome-Plated Stems

*Our 51- Sport Compact line combines 21-4N Stainless Steel material with both swirl-polished straight stems, and swirl-polished undercut stems for maximum flow and efficiency.*



51-7773, 51-7772

**Acura/Honda B16A-3, B17A, B18C1-5 VTEC**

Part No	Head Diameter	Length	Stem Diameter	I/E	Tip	Note
51-7772	28 mm	102.5 mm	5.5 mm	Exh	2.5 mm	Nitrided
51-7308	28.5 mm	102.5 mm	5.5 mm	Exh	2.5 mm	
51-7773	33 mm	102.35 mm	5.5 mm	Int	2.5 mm	Undercut, Nitrided
51-7311	34 mm	102.35 mm	5.5 mm	Int	2.5 mm	Undercut

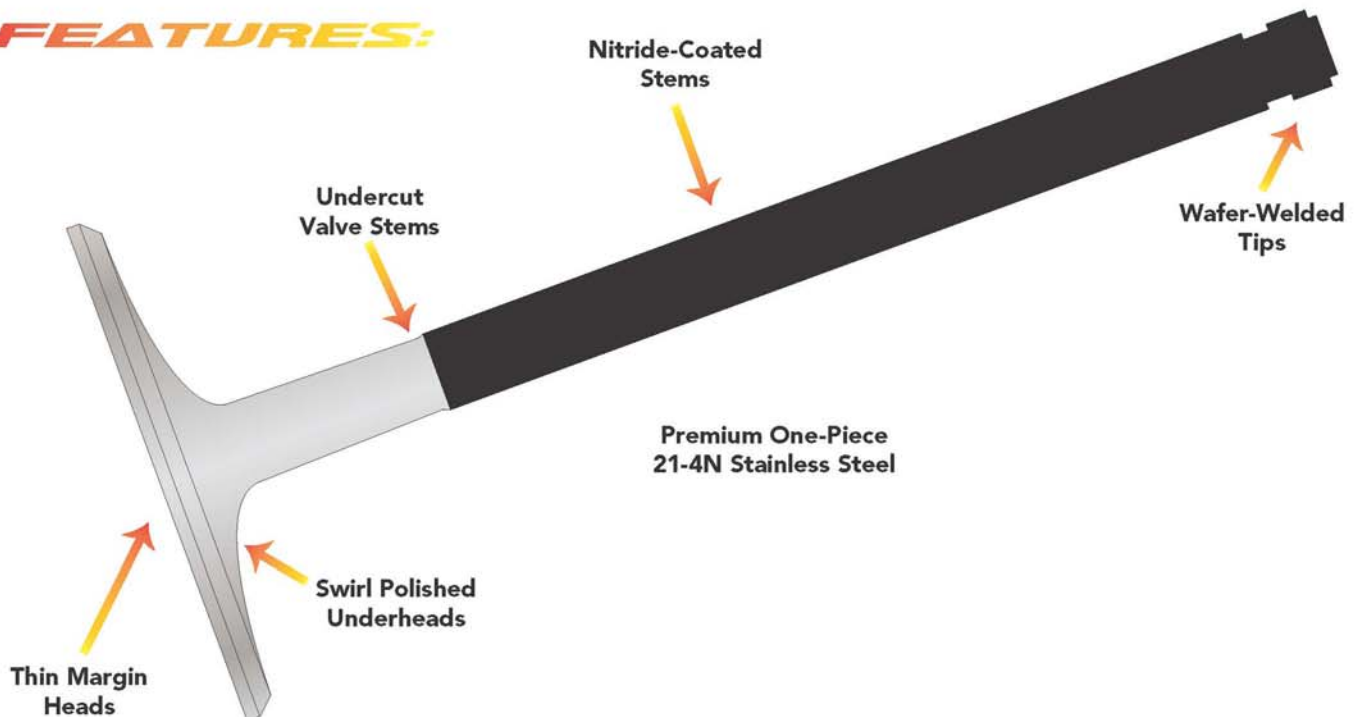


Black Lightning racing valves are forged from premium 21-4N stainless steel. They have undercut stems and swirl polished heads to help the flow of both fuel and exhaust gasses going into and exiting the engine combustion chamber. The heads are also designed with thinner margins to reduce weight and inertia.

Black Lightning valves also feature a unique nitride coating which is better than chrome for higher revving race engines producing less friction, exceptional wear resistance, and increased strength and ductility. Our Plasma Nitriding process is superior to both the gas nitriding process and the salt bath process used by other valve manufacturers, because it imparts a very hard, wear resistant surface without the need to remove a brittle layer associated with traditional nitriding. It gives consistent hardness and depth, and it has the least affect on the surface finish, maintaining the valve steel core properties due to lower processing temperature.

From stem to head these race quality valves are engineered to perform in the most demanding pro race engine environments guaranteeing you one hell of a white knuckle ride.

## FEATURES:



# QUALFAST BLACK LIGHTNING RACING VALVES



*Our "Black Lightning" Racing valves are manufactured using the highest quality Stainless Steel, plus they are plasma nitrided on the stem and top of valve for exceptional wear resistance, strength, and ductility. The underheads are swirl polished stainless and the heads are designed with thinner margins to reduce weight and inertia.*

Part No	Head Diameter	Length	Stem Diameter	I/E	Tip	Note
<b>Small Block Chevrolet</b>						
77-150001	1.500	4.910	0.3410	Exh	0.250	
77-160001	1.600	4.925	0.3410	Exh	0.250	
77-160101	1.600	5.025	0.3410	Exh	0.250	+100
77-160201	1.600	5.125	0.3410	Exh	0.250	+200
77-163101	1.625	5.025	0.3410	Exh	0.250	
77-194001	1.940	4.910	0.3410	Int	0.250	
77-202001	2.020	4.920	0.3410	Int	0.250	
77-202101	2.020	5.020	0.3410	Int	0.250	+100
77-202201	2.020	5.120	0.3410	Int	0.250	+200
77-206101	2.055	5.020	0.3410	Int	0.250	+100
77-208101	2.080	5.020	0.3410	Int	0.250	+100
<b>Chevrolet LS</b>						
77-157008	1.570	4.910	0.3134	Exh	0.160	LS1
77-159038	1.590	4.914	0.3136	Exh	0.204	LS3
77-160008	1.600	4.910	0.3134	Exh	0.160	LS1
77-161078	1.613	5.226	0.3134	Exh	0.334	LS7
77-202008	2.020	4.870	0.3138	Int	0.160	LS1
77-206008	2.055	4.870	0.3138	Int	0.160	LS1
77-216038	2.165	4.890	0.3135	Int	0.225	LS3
77-220078	2.205	5.226	0.3134	Int	0.334	LS7
<b>Big Block Chevrolet</b>						
77-173003	1.725	5.350	0.3710	Exh	0.220	
77-188001	1.880	5.350	0.3410	Exh	0.220	
77-188101	1.880	5.450	0.3410	Exh	0.220	+100
77-188003	1.880	5.350	0.3710	Exh	0.220	
77-207003	2.065	5.220	0.3710	Int	0.220	
77-219003	2.190	5.220	0.3710	Int	0.220	
77-225101	2.250	5.320	0.3410	Int	0.220	+100
77-225251	2.250	5.470	0.3410	Int	0.220	+250
77-225003	2.250	5.220	0.3710	Int	0.220	
77-230101	2.300	5.320	0.3410	Int	0.220	+100
77-230251	2.300	5.470	0.3410	Int	0.220	+250
<b>Small Block Ford</b>						
77-160021	1.600	5.090	0.3410	Exh	0.395	
77-190021	2.020	5.090	0.3410	Int	0.395	
<b>Ford Big Block</b>						
77-176041	1.760	5.050	0.3410	Exh	0.340	
77-219041	2.190	5.242	0.3410	Int	0.274	



# QUALFAST PERFORMANCE CYLINDER HEADS









New Performance Cylinder Heads are Individually Cast using the latest techniques. All machined surfaces performed by CNC, including bolt holes, to achieve extreme accuracy in finishing. OEM bolt pattern for compatibility.

\* Meets and Exceed OEM Specifications

\*Custom Designed Heads

\* Chambers Designed For Improved Flow

\* Aluminum is T6, Heat Treated.

Photo	Part No Description	Intake Runner CC Exhaust Runner CC	Chamber CC Plugs	Intake Shape Exhaust Shape	Note
	<b>15-120011</b>	196	64	Rectangle	
	SBC Aluminum	68.5	Straight	Rectangle	
	<b>15-121231</b>	212	56.5	Cathedral	
	LS1 Aluminum	76	Angle	Irregular	
	<b>15-125041</b>	250	57	Rectangle	
	LS3 Aluminum	82	Angle	Irregular	
	<b>15-125551</b>	255	59	Rectangle	
	LS7 Aluminum	85	Angle	Irregular	
	<b>15-132722</b>	327	119	Oval	
	BBC Oval Aluminum	145.5	Angle	Rectangle	
	<b>15-133021</b>	330	126	Rectangle	
	BBC Aluminum	122.5	Angle	Irregular	
	<b>15-219011</b>	190	60	Rectangle	289, 302 Requires 1/2"-7/16" Stepped Head Bolt
	SBF Aluminum	74	Angle	Rectangle	
	<b>15-226521</b>	265	86.5	Oval	Wider Push Rod Bores
	BBF Aluminum	95	Angle	Irregular	

# QUALFAST PERFORMANCE CYLINDER HEAD KITS

Head Kits are for one engine and can be customized with your requested components. The below kits are examples with common components. Add, remove, or change- call to design your custom Performance Head Kit.



Kit #		Description		Notes					
Cyl. Head-2	Exh Valve-8	Int Valve-8	Springs-16	Keepers-32	Retainers-16	SpringShim-16	Stem Seal-16	Guide Plate-8	Rocker Stud-16
<b>15-120011-K01</b>		<b>SBC Std., 53-</b>							
15-120011	53-100160	53-100202	52-10010	34-555	55-6100	33-5270	38-532-55	75-100	42-4920
<b>15-120011-K06</b>		<b>SBC Std., 77-</b>							
15-120011	77-160001	77-202001	52-10010	34-555	55-6100	33-5270	38-532-55	75-100	42-4920
<b>15-120011-K11</b>		<b>SBC +100, 53-</b>							
15-120011	53-1001601	53-1002021	52-57470	34-555	55-6100	33-5270	38-532-55	75-100	42-4920
<b>15-120011-K16</b>		<b>SBC +100, 77-</b>							
15-120011	77-160101	77-202101	52-57470	34-555	55-6100	33-5270	38-532-55	75-100	42-4920
<b>15-121231-K01</b>		<b>LS1 53 Con</b>							
15-121231	53-108157	53-108202	52-65000	34-5005	55-6103	33-8250-L	38-900-45		
<b>15-121231-K02</b>		<b>LS1 53 Dua</b>							
15-121231	53-108157	53-108202	52-65810	34-5005	55-6123	33-8250-L	38-805-55		
<b>15-121231-K06</b>		<b>LS1 77 Dua</b>							
15-121231	77-160008	77-202008	52-65810	34-5005	55-6123	33-8250-L	38-805-55		
<b>15-121231-K07</b>		<b>LS1 77 Con</b>							
15-121231	77-160008	77-202008	52-65000	34-5005	55-6103	33-8250-L	38-900-45		

# QUALFAST PERFORMANCE CYLINDER HEAD KITS

Head Kits are for one engine and can be customized with your requested components. The below kits are examples with common components. Add, remove, or change- call to design your custom Performance Head Kit.

Kit #		Description		Notes					
Cyl. Head-2	Exh Valve-8	Int Valve-8	Springs-16	Keepers-32	Retainers-16	SpringShim-16	Stem Seal-16	Guide Plate-8	Rocker Stud-16
<b>15-125041-K01</b>		<b>LS3 53 Con</b>							
15-125041	53-108159	53-108216	52-65000	34-5005	55-6103	33-8250-L	38-900-45		
<b>15-125041-K02</b>		<b>LS3 53 Dua</b>							
15-125041	53-108159	53-108216	52-65810	34-5005	55-6123	33-8250-L	38-805-55		
<b>15-125041-K03</b>		<b>LS3 53 Dua TiRet MacKee</b>		Machined Keeper, Titanium Retainer					
15-125041	53-108159	53-108216	52-65810	34-7005	55-8123	33-8250-L	38-805-55		
<b>15-125041-K06</b>		<b>LS3 77 Con</b>							
15-125041	77-159038	77-216038	52-65000	34-5005	55-6103	33-8250-L	38-900-45		
<b>15-125041-K07</b>		<b>LS3 77 Dua</b>							
15-125041	77-159038	77-216038	52-65810	34-5005	55-6123	33-8250-L	38-805-55		
<b>15-125551-K01</b>		<b>LS7 53 Con</b>							
15-125551	53-108161	53-108221	52-65000	34-5005	55-6103	33-8250-L	38-900-45		
<b>15-125551-K02</b>		<b>LS7 53 Dua</b>							
15-125551	53-108161	53-108221	52-65810	34-5005	55-6123	33-8250-L	38-805-55		
<b>15-125551-K06</b>		<b>LS7 77 Con</b>							
15-125551	77-161078	77-220078	52-65000	34-5005	55-6103	33-8250-L	38-900-45		
<b>15-125551-K07</b>		<b>LS7 77 Dua</b>							
15-125551	77-161078	77-220078	52-65810	34-5005	55-6123	33-8250-L	38-805-55		
<b>15-132722-K21</b>		<b>BBC Oval +, 53-</b>		Head Req. Intake Valve To Be .150" Longer; Chg. GP N/A Yet					
15-132722	53-1001881	53-1022525	52-46970	34-555	55-6303	33-5146	38-532-55	75-700*	42-2941
<b>15-132722-K26</b>		<b>BBC Oval +, 77-</b>		Head Req. Intake Valve To Be .150" Longer; Chg. GP N/A Yet					
15-132722	77-188101	77-225251	52-46970	34-555	55-6303	33-5146	38-532-55	75-700*	42-2941
<b>15-133021-K21</b>		<b>BBC Rect. +, 53-</b>		Head Req. Intake Valve To Be .150" Longer; Chg. GP N/A Yet					
15-133021	53-1001881	53-1022525	52-46970	34-555	55-6303	33-5146	38-532-55	75-700*	42-2941
<b>15-133021-K26</b>		<b>BBC Rect. +, 77-</b>		Head Req. Intake Valve To Be .150" Longer; Chg. GP N/A Yet					
15-133021	77-188101	77-225251	52-46970	34-555	55-6303	33-5146	38-532-55	75-700*	42-2941
<b>15-219011-K01</b>		<b>SBF 53-</b>		Chg. Valves to SBC +100; Chg. Spr Cup					
15-219011	53-1001601	53-1002021	52-27270	34-555	55-6302	33-5126-5	38-532-55	75-110	42-2940
<b>15-219011-K02</b>		<b>SBF 53- ChSp</b>		Chg. Valves to SBC +100; Chg. Spr Cup; Chg Spring					
15-219011	53-1001601	53-1002021	52-27410	34-555	55-6302	33-5126-5	38-532-55	75-110	42-2940
<b>15-219011-K06</b>		<b>SBF 77-</b>							
15-219011	77-160021	77-202021	52-27410	34-555	55-6302	33-5126-5	38-532-55	75-110	42-2940
<b>15-226521-K01</b>		<b>BBF 53-</b>		Chg. Exh. Valve; Chg. Guide Plate					
15-226521	53-534178	53-541219	52-46970	34-555	55-6303	33-5146	38-532-55	75-112	42-2940
<b>15-226521-K06</b>		<b>BBF 77-</b>		Chg. Guide Plate					
15-226521	77-176041	77-219041	52-46970	34-555	55-6303	33-5146	38-532-55	75-112	42-2940

\*BBC 75-107 Req. Bending - Avail. w/o Guide Plate Until 75-700 Avail. Jan. 2018

# MANGANESE BRONZE AND HARDENED CAST IRON GUIDES

Manganese Bronze guides are precision machined from the highest quality, specially formulated material. This material offers improved thermal conductivity, lower friction, higher strength, and superior corrosion resistance.

Our Hardened Cast Iron Guides are manufactured from a special premium cast iron alloy, then heat treated to 25 Rockwell C.



31-03419



31-4019



31-6872

Part No	I.D.	O.D.	Length	SealOD	FlangeOD	Part No	I.D.	O.D.	Length	SealOD	FlangeOD
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**Material: MANGANESE BRONZE**

**Chevrolet LS**

31-4019 0.315 0.500 2.000 0.500 0.562

31-4020 0.315 0.530 2.000 0.530 0.562

**Ford 4.6L 7mm Valve Stem**

31-4031 0.275 0.494 1.835 0.530 0.560

31-4032 0.275 0.494 1.975 0.472 0.610

31-4033 0.275 0.494 2.100 0.472 0.610

31-4034 0.275 0.495 1.805 0.531 0.610

**Universal**

31-8560 0.2360 0.495 1.890

31-8274 0.2765 0.495 1.930

**Universal**

31-4026 0.310 0.502 2.250 0.530 0.562

31-6872 0.311 0.439 2.281

31-7359 0.3150 0.476 1.450

31-4017 0.340 0.502 1.950 0.531 0.531

31-4013 0.340 0.502 2.100 0.531 0.531

31-4024 0.340 0.502 2.250 0.530 0.562

31-4015 0.340 0.503 2.125 0.530 0.562

31-4016 0.341 0.502 1.920 0.530 0.562

31-4011 0.341 0.502 2.125 0.530 0.562

31-4002 0.341 0.502 2.234 0.530 0.562

31-3500 0.341 0.502 2.400 0.530 0.562

31-4003 0.341 0.502 2.600 0.562 0.531

**We Build Custom Valve Train Kits! Choose your Performance Valves, Springs, Retainers, Keepers, VSIs, Stem Seals, and add any other components you want to create your custom Kit**



Part No	I.D.	O.D.	Length	SealOD	FlangeOD	Part No	I.D.	O.D.	Length	SealOD	FlangeOD
<b>Universal</b>						<b>Acura/Honda B16A-3, B17A, B18C1-5 VTEC</b>					
31-4907	0.342	0.502	2.375	0.530	0.530	31-8576	0.217	0.475	1.640		
31-4022	0.342	0.502	3.000	0.530	0.531	31-8577	0.217	0.475	1.870		
31-4023	0.342	0.627	2.250	0.560		<b>Honda Prelude H22A1-4</b>					
31-7715	0.343	0.502	2.125			31-8582	0.217	0.475	1.715		
31-7946	0.343	0.502	2.250			31-8583	0.217	0.475	2.045		
31-4021	0.343	0.502	2.350	0.530	0.530	<b>Ford Focus 2.0L DOHC ZETEC</b>					
31-7459	0.343	0.502	2.375			31-8662	0.239	0.473	1.400		
31-7460	0.343	0.502	2.500			<b>Volkswagen 1.9, 2.8L 7mm</b>					
31-5604	0.343	0.502	2.625			31-8139	0.275	0.476	1.500		
31-6106	0.343	0.502	2.750			<b>Volkswagen 1.8 20V, 2.7, 2.8, 3.0L 30V 6mm</b>					
31-8012	0.343	0.502	2.875			31-03419	0.2360	0.436	1.415		
31-6867	0.344	0.502	2.125			<b>Material: CAST IRON</b>					
31-5607	0.344	0.502	2.250			<b>Universal</b>					
31-7552	0.344	0.565	2.875			30-9977H	0.312	0.502	2.281		
31-8009	0.372	0.502	2.375			30-9460H	0.343	0.502	2.500		
31-4025	0.372	0.502	3.000	0.530	0.531	30-9607H	0.344	0.502	2.250		
31-7298	0.373	0.502	2.375			30-9523H	0.344	0.502	3.063		
31-7260	0.373	0.502	2.875			30-9964H	0.3730	0.502	2.625		
31-7279	0.373	0.565	2.875			30-9108H	0.374	0.502	2.375		
31-4028	0.373	0.620	2.562	0.530		30-9458H	0.374	0.502	3.063		
31-4029	0.373	0.625	2.427	0.530		30-9972H	0.374	0.621	2.630		
31-8826	0.373	0.628	2.565								
31-8825	0.373	0.633	2.435								
31-8017	0.374	0.502	2.375								
31-6108	0.374	0.502	2.375								
31-6109	0.374	0.502	2.500								
31-8016	0.374	0.502	2.625								
31-4030	0.405	0.565	3.250	0.565							

**We Build Custom Valve Train Kits! Choose your Performance Valves, Springs, Retainers, Keepers, VSIs, Stem Seals, and add any other components you want to create your custom Kit**



# QUALFAST HIGH PERFORMANCE SPRINGS

Manufactured by the industry-leading high performance valve spring factory, QualFast high performance springs employ the latest materials and manufacturing processes. All QualFast springs are wound using super-clean chrome silicon or new Alpha1 or 3 alloy wires. Our springs are engineered for high performance, giving optimum lift and preventing valve float.



Type: SGL = Single, SWD = Single with Damper, CON = Conical, DUA = Dual, DWD = Dual with Damper

Part No	Max Lift	O.D.	I.D.	Closed Load	Open Load	Type	Coil Bind	Retainers	Note
<b>Domestic Performance</b>									
52-07513		0.953	0.697	58 @1.500		SGL	0.928		Dual Inner
52-43270	0.490	1.215	0.861	120 @1.70	265 @1.20	SWD	1.150	55-6105	GM L6, V6
52-10008	0.490	1.240	0.876	80 @1.700	200 @1.25	SWD	1.150	55-6105	
52-10010	0.500	1.260	0.876	120 @ 1.7	300 @1.20	SWD	1.160	55-6100, 55-8100	
52-08470	0.500	1.437	1.080	105 @1.75	210 @1.25	SWD	1.100	55-6302	
52-22970	0.525	1.525	1.075	125 @1.87	355 @1.37	SWD	1.240	55-6304	
52-16670	0.540	1.435	1.035	110 @1.70	300 @1.15	SWD	1.100	55-6302	
52-10012	0.540	1.494	1.080	95 @1.650	270 @1.20	SWD	1.085	55-6302	
52-10011	0.540	1.504	1.090	90 @ 1.88	265 @1.38	SWD	1.265	55-6302	
52-46970	0.540	1.539	1.125	135 @1.87	305 @1.35	SWD	1.160	55-6303	
52-65900	0.550	1.050T	0.636	80 @1.640	185 @1.09	CON	0.952	55-6194	Ford 4.6L 2V Ovate
52-65000	0.550	1.289T	0.660	105 @1.80	260 @1.20	CON	1.140	55-6103, 55-8103	Chev. LS
52-53410	0.590	1.437	0.796	165 @1.80	315 @1.30	DUA	1.100	55-6102, 55-6307	
52-61270	0.600	1.260	0.876	130 @1.80	350 @1.20	SWD	1.140	55-6100, 55-8100	
52-57470	0.600	1.260	0.876	125 @1.75	330 @1.20	SWD	1.160	55-6100, 55-8100	
52-55710	0.600	1.437	0.810	140 @1.80	295 @1.30	DUA	1.100	55-6302	
52-27410	0.600	1.460	0.700	135 @1.85	420 @1.17	DUA	1.170	55-6302	
52-27270	0.600	1.460	1.060	115 @1.82	295 @1.25	SWD	1.150	55-6302	
52-61810	0.600	1.460	0.840	145 @1.80	350 @1.20	DUA	1.080	55-6302	
52-41010	0.600	1.539	0.731	190 @1.94	425 @1.37	DWD	1.200	55-6305	
52-49270	0.600	1.540	1.140	100 @1.90	240 @1.30	SWD	1.200	55-6308, 55-8308	

Part No	Max Lift	O.D.	I.D.	Closed Load	Open Load	Type	Coil Bind	Retainers	Note
52-57310	0.625	1.557	0.749	200 @2.00	450 @1.37	DWD	1.160	55-6303, 55-6308, 55-8308	
52-55810	0.630	1.514	0.795	140 @1.94	360 @1.30	DUA	1.200	55-6303, 55-6305	
52-65810	0.650	1.295	0.676	140 @1.80	385 @1.15	DUA	1.100	55-6123, 55-8123	Chev. LS
52-63710	0.650	1.500	0.731	180 @1.90	500 @1.25	DWD	1.080	55-6308, 55-8308	
52-58010	0.650	1.500	0.800	190 @1.85	470 @1.25	DUA	1.075	55-6303, 55-6305	
52-58310	0.700	1.540	0.729	255 @1.95	590 @1.23	DWD	1.190	55-6308, 55-8308	

**Diesel Performance**

52-4040		0.995	0.657	84 @ 1.88	252 @ 1.4	SGL	1.290	55-6328	FOR 6.0L, 6.4L Diesel
52-4053		1.134	0.744	105 @ 1.3	180 @ 1.0	SGL	0.880	37-3198	CUM 5.9L, 6.7L 24V
52-4041		1.180	0.868	75 @ 1.90	150 @ 1.4	SGL	1.368	55-6066	GM 6.6L Duramax
52-4049		1.344	0.945	178 @1.80	250 @1.38	SGL	1.250	37-2299	Cummins 12V

**Acura/Honda B16A-3, B17A, B18C1-5 VTEC**

52-8101		29mm	15.5m	80 @34m	195 @26m	DUA	19mm	55-9005	
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## QUALFAST HIGH PERFORMANCE KEEPERS

QualFast High Performance Keepers are all heat treated and are designed to fit with our High Performance retainers and valves. Sold and priced by the piece (each, 2 per valve). 7 Degree unless noted.



Part No	Stem	No. Beads	Type	Application
34-5024	0.215	1	Round	FOR, HON 5.5mm
34-719	0.234	1	Round	CHC, Mit. 6mm
34-235	0.258	1	Round	Mit, Hon 6.5mm
34-281	0.275	3	Round	FDI, FOR, LAN, MAZ
34-5005	0.314	1	Round	GM LS, TOY 8mm
34-7005	0.314	1	Round	GM LS1 Machined
34-811M	0.314	1	Square	TOY 22R Machined
34-10555-50	0.343	1	Square	HP 10 Deg -50, Lower Spring Inst. Height
34-10555L	0.343	1	Square	10 Deg. For Lash Cap
34-555	0.343	1	Square	Universal 11/32
34-555+50	0.343	1	Square	HP +50 Taller Spring Inst. Height
34-555-30	0.343	1	Square	HP -30 Lower Spring Inst. Height
34-555-60	0.343	1	Square	HP -60 Lower Spring Inst. Height
34-613	0.372	1	Square	Universal 3/8
34-766	0.372	4	Round	CHI, CHM, CHC, IHC, IHN

# QUALFAST HIGH PERFORMANCE SPRING KITS

Our Performance Spring Kits Include 16 Springs, 16 Retainers and 32 Keepers Designed to Function Together to Give You Maximum Performance.



Part No	Max Lift \ Kit Contents	Spring O.D. \ Description	Loads \ Specifications
<b>52-08470SK</b>	500	1.437	105 @1.750
16	52-08470	Single w/ Damper	210 @1.250
16	55-6302	7 Deg Retainer	11/32 x 1.400
32	34-555	7 Deg Keeper	11/32
<b>52-10010SK</b>	500	1.260	120 @1.700
16	52-10010	Single w/ Damper	320 @1.200
16	55-6105	7 Deg Retainer	11/32 x 1.200
32	34-555	7 Deg Keeper	11/32
<b>52-22970SK</b>	525	1.525	125 @1.875
16	52-22970	Single w/ Damper	355 @1.375
16	55-6304	7 Deg Retainer	3/8 x 1.400
32	34-613	7 Deg Keeper	3/8
<b>52-65000SK</b>	550	1.289	105 @1.800
16	52-65000	Single Conical	265 @1.200
16	55-6103	7 Deg Retainer	8mm x 1.030
32	34-5005	7 Deg Keeper	8mm
<b>52-65008SK</b>	550	1.289	105 @1.800
16	52-65000	Single Conical	265 @1.200
16	55-8103	7 Deg Retainer	8mm x 1.030 Titanium
32	34-5005	7 Deg Keeper	8mm
<b>52-65900SK</b>	550	1.050	80 @1.640
16	52-65900	Single Conical	185 @1.090
16	55-6194	7 Deg Retainer	7mm x 0.890
32	34-281	7 Deg Keeper	7mm
<b>52-53410SK</b>	590	1.437	165@1.800
16	52-53410	Dual	315 @1.30
16	55-6102	7 Deg Retainer	11/32 x 1.370
32	34-555	7 Deg Keeper	11/32
<b>52-27270SK</b>	600	1.460	115 @1.820
16	52-27270	Single w/ Damper	245 @1.320
16	55-6302	7 Deg Retainer	11/32 x 1.400
32	34-555	7 Deg Keeper	11/32
<b>52-27410SK</b>	600	1.460	135 @1.850
16	52-27410	Dual w/ Damper	420 @1.175
16	55-6302	7 Deg Retainer	11/32 x 1.400
32	34-555	7 Deg Keeper	11/32
<b>52-41010SK</b>	600	1.539	190 @1.940
16	52-41010	Dual w/ Damper	425 @1.370
16	55-6305	7 Deg Retainer	3/8 x 1.490
32	34-613	7 Deg Keeper	3/8



Part No	Max Lift \ Kit Contents	Spring O.D. \ Description	Loads \ Specifications
<b>52-49270SK</b>	600	1.540	100 @1.900
16	52-49270	Single w/ Damper	240 @1.300
16	55-6308	10 Deg Retainer	11/32 x 1.400
32	34-10555L	10 Deg Keeper	11/32
<b>52-55710SK</b>	600	1.437	140 @1.800
16	52-55710	Dual	295 @1.300
16	55-6302	7 Deg Retainer	11/32 x 1.400
32	34-555	7 Deg Keeper	11/32
<b>52-57470SK</b>	600	1.260	125 @1.750
16	52-57470	Single w/ Damper	330 @1.200
16	55-6100	7 Deg Retainer	11/32 x 1.240
32	34-555	7 Deg Keeper	11/32
<b>52-61270SK</b>	600	1.260	130 @1.800
16	52-61270	Single w/ Damper	350 @1.200
16	55-6100	7 Deg Retainer	11/32 x 1.240
32	34-555	7 Deg Keeper	11/32
<b>52-61810SK</b>	600	1.460	145 @1.800
16	52-61810	Dual	350 @1.200
16	55-6302	7 Deg Retainer	11/32 x 1.400
32	34-555	7 Deg Keeper	11/32
<b>52-57310SK</b>	625	1.557	200 @2.000
16	52-57310	Dual w/ Damper	450 @1.375
16	55-6308	10 Deg Retainer	11/32 x 1.500
32	34-10555L	10 Deg Keeper	11/32
<b>52-57318SK</b>	625	1.557	200 @2.000
16	52-57310	Dual w/ Damper	450 @1.375
16	55-8308	10 Deg Retainer	11/32 x 1.500 Titanium
32	34-10555L	10 Deg Keeper	11/32
<b>52-58010SK</b>	650	1.500	186 @1.900
16	52-58010	Dual	470 @1.250
16	55-6305	7 Deg Retainer	3/8 x 1.490
32	34-613	7 Deg Keeper	3/8
<b>52-58011SK</b>	650	1.500	186 @1.900
16	52-58010	Dual	470 @1.250
16	55-6308	10 Deg Retainer	11/32 x 1.490
32	34-10555L	10 Deg Keeper	11/32
<b>52-63710SK</b>	650	1.500	180 @1.900
16	52-63710	Dual w/ Damper	500 @1.250
16	55-6308	10 Deg Retainer	11/32 x 1.490
32	34-10555L	10 Deg Keeper	11/32
<b>52-58310SK</b>	700	1.540	255 @1.950
16	52-58310	Dual w/ Damper	590 @1.230
16	55-6308	10 Deg Retainer	11/32 x 1.490
32	34-10555L	10 Deg Keeper	11/32
<b>52-58318SK</b>	700	1.540	225 @1.950
16	52-58310	Dual w/ Damper	590 @1.230
16	55-8308	10 Deg Retainer	11/32 x 1.490 Titanium
32	34-10555L	10 Deg Keeper	11/32

# QUALFAST HIGH PERFORMANCE RETAINERS

Precision Machined From Chrome Moly or Titanium, our High Performance Retainers are specially designed to work with our High Performance Springs.



Part No	Stem Dia	O.D.	Step 1 Dia.	Step 2 Dia.	Deg.	Matl.	Note
<b>Domestic Performance</b>							
55-6104	11/32	1.030	0.640		7	Chrome Moly	Use w/ Conical Spring
55-6906	11/32	1.130	0.865	0.615	7	ChromeMoly	GM Vortec 86-Up
55-6115	11/32	1.200	0.748	0.635	7	ChromeMoly	GM 265-350
55-6105	11/32	1.200	0.850	0.667	7	ChromeMoly	GM 265-350
55-6100	11/32	1.240	0.860	0.645	7	ChromeMoly	Std. SBC
55-8100	11/32	1.240	0.860	0.600	7	Titanium	Std. SBC
55-6231	11/32	1.250	0.845	0.690	7	ChromeMoly	Buick 231
55-6177	11/32	1.320	0.918	0.660	7	ChromeMoly	Ford 2.3L
55-6179	11/32	1.330	0.987	0.660	7	ChromeMoly	Ford L6 300
55-6102	11/32	1.370	1.064	0.720	7	ChromeMoly	Ford 260-302
55-6307	11/32	1.400	1.060	0.695	10	Chrome Moly	
55-6302	11/32	1.400	1.060	0.700	7	ChromeMoly	
55-6303	11/32	1.490	1.124	0.695	7	ChromeMoly	
55-8308	11/32	1.490	1.120	0.695	10	Titanium	
55-6308	11/32	1.490	1.120	0.695	10	ChromeMoly	
55-6455	3/8	1.310	0.820		7	ChromeMoly	Buick 455
55-6318	3/8	1.340	0.995	0.637	7	ChromeMoly	Chry. 318
55-6304	3/8	1.400	1.060	0.695	7	ChromeMoly	
55-6201	3/8	1.400	1.060	0.885	7	ChromeMoly	GM 396-454
55-6305	3/8	1.490	1.120	0.695	7	ChromeMoly	
55-6360	5/16	1.144	0.820	0.660	7	ChromeMoly	Chry. 360
55-6312	5/16	1.400	1.075	0.725	7	ChromeMoly	
55-6194	7mm	0.890	0.620	0.550	7	ChromeMoly	Ford 4.6L Late
55-6197	7mm	0.980	0.595	0.532	7	ChromeMoly	GM 2.2L 87-98
55-6294	7mm	1.040	0.742	0.595	7	ChromeMoly	Ford 4.6L Early
55-8103	8mm	1.030	0.640		7	Titanium	GM LS1
55-6103	8mm	1.030	0.640		7	ChromeMoly	GM LS1
55-6198	8mm	1.038	0.618		7	ChromeMoly	GM 3.1L 94-98
55-8123	8mm	1.230	0.860	0.600	7	Titanium	GM LS1
55-6123	8mm	1.230	0.860	0.600	7	ChromeMoly	LS1
55-8130	8mm	1.300	1.070	0.700	7	Titanium	GM LS1
55-6130	8mm	1.300	1.070	0.700	7	ChromeMoly	GM LS1
55-8143	8mm	1.430	1.060	0.690	7	Titanium	GM LS1
<b>Diesel Performance</b>							
55-6328	0.274	0.912	0.621		7	Chrome Moly	FOR 6.0, 6.4L
55-6066	0.275	1.175	0.819	0.597	7	Chrome Moly	GM 6.6 Duramax
<b>Import Performance</b>							
55-9005	5.5mm	28mm	21.7mm	15.4mm	7	Titanium	Acura/Honda B16A-3, B17A, B18C1-5 VTEC
55-6922	8mm	1.295	0.904	0.600	7	ChromeMoly	Toyota 22R

# QUALFAST HIGH PERFORMACE SPRING INSERTS, CUPS, AND LOCATORS

QualFast HP Spring I.D. Locators, part numbers 33-\*\*\*\*-L, are manufactured from chrome moly with black oxide finish. The inside edge on these inserts keeps the spring centered. Outside Cups, also in chrome moly with black oxide, 33-5\*\*\*, control spring walk with an outside lip. Flat HP Valve Spring Inserts have heat-retarding serrations with a blue tint indicating heat treatment.

Part No	Thickness	O.D	I.D.	Spring I.D. / O.D	Part No	Thickness	O.D	I.D.	Spring I.D. / O.D
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## I.D. Locator



## Valve Spring Insert



<b>33-8135-L</b>	30	1.135	0.435	0.600
<b>33-8251-L</b>	60	1.235	0.505	0.655
<b>33-8250-L</b>	30	1.250	0.569	0.655
<b>33-8535-L</b>	60	1.535	0.569	0.740
<b>33-8550-L</b>	60	1.550	0.569	0.715
<b>33-8570-L</b>	60	1.570	0.569	0.810
<b>33-8620-L</b>	60	1.620	0.569	0.740

<b>33-1086-5</b>	60	0.970	0.445
<b>33-1063-5</b>	30	1.100	0.719
<b>33-1066-5</b>	60	1.100	0.719
<b>33-8806-5</b>	60	1.170	0.600
<b>33-1073-5</b>	30	1.250	0.625
<b>33-2033-5</b>	30	1.250	0.812
<b>33-8016-5</b>	60	1.250	0.812
<b>33-2036-5</b>	60	1.250	0.812
<b>33-2013-5</b>	30	1.250	0.875
<b>33-2016-5</b>	60	1.250	0.875
<b>33-1026-5</b>	60	1.360	1.000
<b>33-3013-5</b>	30	1.375	0.765
<b>33-3016-5</b>	60	1.375	0.765
<b>33-3063-5</b>	30	1.437	0.645
<b>33-3066-5</b>	60	1.437	0.645
<b>33-3053-5</b>	30	1.437	0.785
<b>33-3056-5</b>	60	1.437	0.785
<b>33-3033-5</b>	30	1.480	0.703
<b>33-3036-5</b>	60	1.480	0.703
<b>33-6033-5</b>	30	1.500	0.562
<b>33-1033-5</b>	30	1.500	1.031
<b>33-1036-5</b>	60	1.500	1.031
<b>33-6013-5</b>	30	1.640	0.635
<b>33-6016-5</b>	60	1.640	0.635

## Outside Cup



<b>33-5103</b>	183	1.200	0.664	1.130
<b>33-5270</b>	65	1.360	0.570	1.260
<b>33-5056</b>	60	1.399	0.821	1.300
<b>33-5440</b>	60	1.550	0.690	1.440
<b>33-5475</b>	80	1.580	0.640	1.470
<b>33-5076-5</b>	60	1.595	0.645	1.475
<b>33-5126-5</b>	60	1.614	0.570	1.470
<b>33-5510</b>	80	1.630	0.640	1.500
<b>33-5036-5</b>	60	1.640	1.029	1.520
<b>33-5066-5</b>	60	1.650	0.645	1.520
<b>33-5565</b>	80	1.680	0.640	1.560
<b>33-5146</b>	60	1.700	0.570	1.550
<b>33-5650</b>	80	1.745	0.640	1.650

# QUALFAST HIGH PERFORMANCE LIFTERS

QualFast hydraulic retro-fit roller lifters 36-1160 and 36-1161, are designed to upgrade early or late model blocks to allow for a hydraulic roller camshaft with more aggressive cam profile. They feature cold-formed, carbon nitrided, tempered bodies with hardened and tempered steel alloy roller wheels, and stainless, heat-treated cross bars.



36-1161

QC #	Type	Length	O.D.	Application
36-817CCI	Hydraulic	2.000	0.8425	GM Flat Chilled Cast Iron
36-900CCI	Hydraulic	2.000	0.8743	FOR Flat Chilled Cast Iron
36-992	Mechanical	2.000	0.8425	GM Early
36-1160	Hydraulic	3.156	0.8425	GM SBC Retro-fit Pair with Bar
36-1161	Hydraulic	2.966	0.8425	GM BBC Retro-fit Pair with Bar
36-2011CCI	Hydraulic	1.900	0.9040	CHC Chilled Cast Iron
36-2148	Hydraulic	2.600	0.8425	GM Vortec Roller
36-2148G	Guide			GM Vortec Dogbone Guide
36-2279	Hydraulic	2.603	0.8421	GM BBC Roller
36-2279G	Guide			GM BB Dogbone Guide

QualFast hydraulic "flat" lifter 36-817CCI is a 2-piece steel body with Chilled Cast Iron wafer bottom. Parts 36-900CCI, and 36-2011CCI, with one-piece bodies, feature chilled cast iron material, which works better with cam lobe material in all applications where lobe to crown friction is a concern.



36-817CCI



36-900CCI

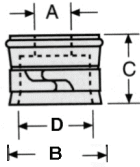


36-2279G

# QUALFAST HIGH PERFORMANCE VALVE STEM SEALS

## HP

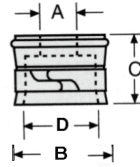
### H.P. Polymer



Part No	Nom. Stem Dia.	Nom. Guide O.D.	A	B	C	D
38-1007-90	11/32	0.530	0.336	0.630	0.458	0.523
38-1006-90	11/32	0.500	0.339	0.604	0.505	0.488
38-1008-90	3/8	0.530	0.373	0.625	0.459	0.513

## TE

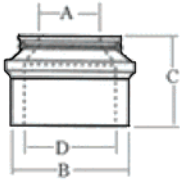
### All Teflon



Part No	Nom. Stem Dia.	Nom. Guide O.D.	A	B	C	D
38-1046-75	0.313	0.530	0.292	0.640	0.510	0.512
38-1053-75	0.313	0.415	0.293	0.500	0.510	0.390
38-1072-75	0.313	0.430	0.297	0.520	0.370	0.403
38-1090-75	11/32	0.500	0.319	0.640	0.510	0.470
38-1100-75	11/32	0.562	0.320	0.660	0.510	0.527
38-1066-75	11/32	0.530	0.328	0.630	0.510	0.509
38-1067-75	11/32	.524	0.340	0.630	0.510	0.502
38-1091-75	3/8	0.500	0.354	0.600	0.510	0.474

## MC

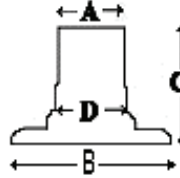
### Metal Clad



Part No	Nom. Stem Dia.	Nom. Guide O.D.	A	B	C	D
38-592-55	0.216	0.436	0.187	0.507	0.393	0.429
38-996-55	0.260	0.472	0.225	0.582	0.480	0.465
38-997-45	0.275	0.476	0.235	0.562	0.517	0.470
38-569-45	0.260	0.476	0.237	0.541	0.410	0.470
38-802-45	0.313	0.531	0.272	0.677	0.516	0.519
38-3995-55	0.315	0.428	0.274	0.556	0.412	0.408
38-804-45	0.313	0.502	0.275	0.623	0.531	0.491
38-8500-55	0.313	0.500	0.275	0.546	0.498	0.497
38-8530-55	0.313	0.531	0.275	0.575	0.498	0.527
38-805-55	0.315	0.500	0.280	0.608	0.502	0.491
38-967-55	0.315	0.514	0.280	0.610	0.398	0.503
38-371-45	0.344	0.552	0.295	0.671	0.496	0.543
38-107-55	0.344	0.500	0.300	0.635	0.530	0.482
38-108-45	0.344	0.502	0.303	0.620	0.524	0.494
38-532-55	0.344	0.531	0.303	0.674	0.527	0.523
38-9500-55	0.344	0.500	0.304	0.546	0.498	0.497
38-9530-55	0.344	0.530	0.304	0.575	0.498	0.527
38-806-55	0.344	0.562	0.307	0.661	0.518	0.550
38-805-45	0.344	0.562	0.308	0.705	0.582	0.544
38-403-45	0.375	0.625	0.335	0.741	0.530	0.617
38-375-55	0.375	0.530	0.338	0.677	0.520	0.516
38-373-55	0.375	0.500	0.340	0.623	0.530	0.488
38-377-45	0.375	0.562	0.343	0.661	0.516	0.553

## TH

### Top Hat



Part No	Nom. Stem Dia.	Nom. Guide O.D.	A	B	C	D
38-3500-45	0.236	0.395	0.210	0.382	0.625	0.390
38-111-45	0.275	0.495	0.243	1.108	0.804	0.488
38-901-45	0.313	0.500	0.282	1.185	0.884	0.490
38-900-45	0.314	0.500	0.286	1.187	0.887	0.492

Material Denoted by Suffix:  
 -45, 55 Viton/Metal  
 -75 All Teflon

-90 High Performance Polymer

Please Refer To Our QualCast Catalog for over 200 additional stem seals in various materials.

## QUALFAST ROCKER ARMS

QualFast Rocker Arms Listed Here Are Stock Tip With Superior Heat Treatment. Self-Aligning Styles Add Guide Rails. All But 40-2886 (Early Ford) Are Stamped Steel For High Performance. New LS 40-2902 and 40-2903 have Caged Bearings and improved, smoother trunions.



40-2736



40-2901



40-2902



40-2903

Part No	Ratio	Slot	Description	Application
40-2737	1.5	Long	Rocker Arm, Self-Aligning Stamped 3/8" Stud	Small Block Chevrolet
40-2840	1.5	Long	Rocker Arm, Stamped 3/8" Stud	Small Block Chevrolet
40-2736	1.5	Stock	Rocker Arm, Self-Aligning Stamped 3/8"	Small Block Chevrolet
40-2842	1.5	Stock	Rocker Arm, Stamped 3/8" Stud	Small Block Chevrolet
40-2738	1.6	Long	Rocker Arm, Self-Aligning Stamped 3/8" Stud	Small Block Chevrolet
40-2841	1.6	Long	Rocker Arm, Stamped 3/8" Stud	Small Block Chevrolet
40-2901			Rocker Arm, w/ Pivot, Bolt LS, 3.5, 3.9L OE	Chevrolet LS
40-2902			Rocker Arm, LS1 Straight HP Caged Bearings	Chevrolet LS
40-2903			Rocker Arm, LS3 Offset HP Caged Bearings	Chevrolet LS
40-2868	1.72	Long	Rocker Arm, Stamped For >0.560 Lift	Big Block Chevrolet
40-2867	1.72	Stock	Rocker Arm, Stamped	Big Block Chevrolet
40-2886		Stock	Rocker Arm, Cast w/ Rails 289, 302, 351	Small Block Ford
40-2889		Stock	Rocker Arm, Stamped 302 '78-98, 351	Small Block Ford
40-2888		Stock	Rocker Arm, Stamped	Ford Big Block

## QUALFAST HP ROLLER ROCKER SETS

QualFast Roller Rockers have roller tips and are manufactured from Stainless Steel, which provides durability compared to aluminum, allowing less fatigue under higher loads. Sold in sets, each set contains 16 roller rockers, and 16 Poly Locks with black anodized finish.



Part No	Ratio	Stud	Description
45-11501	1.50	3/8"	Small Block Chevrolet
45-11702	1.70	7/16"	Big Block Chevrolet
45-21601	1.60	3/8"	Small Block Ford

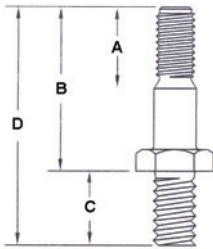
## QUALFAST ROCKER KITS

These Kits Are Per Rocker Arm, and  
Require 16 per Engine for 16V Engines



QC #	Application	Description
41-2509	GM SBC	1 40-1842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
41-1736	GM SBC	1 40-2736, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut.
41-1737	GM SBC	1 40-2737, 1 42-1731 Smooth Ball, 42-1786 3/8 Nut
41-2738	GM SBC	1 40-2738, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
41-2508	GM SBC	1 40-2840, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
41-2401	GM SBC	1 40-2842, 1 42-1731 Smooth Ball, 1 42-1786 3/8 Nut
41-2501	GM SBC	1 40-2842, 1 42-1786 3/8 Nut, 1 42-1792 Grooved Ball
41-2504	GM BBC	1 40-2867, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
41-2507	GM BBC	1 40-2868, 1 42-1793 7/16 Nut, 1 42-1797 Grooved Ball
41-2610	FOR	1 40-2886, 1 42-1772 Grooved Ball, 1 42-1786 3/8 Nut, 1 42-1791 5/16 Nut
41-2547	FOR	1 40-2888, 1 42-1740 5/16 Bolt, 1 42-1776 Pivot
41-2548	FOR	1 40-2889, 1 42-1741 Bolt, 1 42-1776 Pivot

## QUALFAST ROCKER STUDS



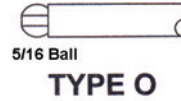
**QualFast Rocker Studs Are Made of Steel With Black Oxide Finish for Increased Hardness. Threads Are Cold Rolled.**



Part No	Stud Thread A	Effect Stud Length B	Base Thread C	Overall Length D
42-2940	7/16-20	1.910	7/16-14 Hex	2.670
42-2941	7/16-20	1.765	7/16-14 Hex	2.560
42-3651	3/8-20	1.770	7/16-14 Hex	2.490
42-4403	3/8-24	1.480	7/16-14 Hex	2.235
42-4920	3/8-24	1.725	7/16-14 Hex	2.410
42-2913	3/8-24	1.790	7/16-14 Hex	2.500
42-3920	3/8-24	1.600	7/16-14 No Hex	2.325
42-2600	3/8-24	1.910	7/16-14 Hex	2.610

# QUALFAST PUSH RODS

QualFast Push Rods Are Heat Treated Chrome Moly Suitable For Use With Guide Plates with additional Black Oxide Finish.



Type: P = Pressed S = Swedged W = Welded

QC #	Length	O.D.	Type	Tip 1	Tip2	Application
74-6342	6.162	5/16X .060	W	O	O	GM 173, 189, 207
74-6281	6.876	5/16X .060	W	O	O	FOR 302
74-6373	7.195	5/16X .060	W	O	O	GM SB
74-6614	7.397	5/16X .075	W	O	O	LS
74-6034	7.793	5/16X .060	W	O	O	GM SB, AMC
74-6230	8.279	5/16X .075	W	O	O	GM BB Int
74-6380	9.200	5/16X .075	W	O	O	GM BB Exh
74-6231	9.252	5/16X .075	W	O	O	GM BB Exh
74-6310	9.499	5/16X .060	W	O	O	FOR 351M, 400
74-6306	10.136	5/16X .060	W	O	O	FOR 240, 300
74-6441	8.281	3/8X .060	S	O	O	GM BB Int
74-6442	9.254	3/8X .060	S	O	O	GM BB Exh

## QUALFAST PUSH ROD MEASURING TOOLS

QualFast Push Rod Measuring Tools are designed to easily determine proper push rod length during any engine rebuild. These 5/16" thin wall rods are precision crafted with over 1" of travel, 5/16" balls, and black oxide finish.



QC #	Application
74-9000	Measuring Tool 6.125 - 7.50"
74-9001	Measuring Tool 7.50 - 8.70"
74-9002	Measuring Tool 8.50 - 9.80"
74-9003	Measuring Tool 9.60 - 11.70"










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## QUALFAST GUIDE PLATES

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QualFast Guide Plates are formed from steel, heat treated and coated with black oxide to ensure hardness and durability.

Part No	Dia.	Type	Application	Photo
75-100	5/16	Flat	SBC	
75-100A	5/16"	Adjustable	SBC	
75-101	3/8"	Flat	SBC	
75-107	3/8	Stepped	BBC	
75-110	5/16	Flat	SBF	
75-111	5/16	Stepped	FOR 351C	
75-115	3/8	Stepped	BBC	

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