

NEW FROM US GEAR!

LIGHTNING

ISOTROPIC SUPERFINISHED GEAR SET



2017
HIGH PERFORMANCE
PRODUCT CATALOG



NEW FROM US GEAR!

LIGHTNING



ISOTROPIC SUPERFINISHED GEAR SET



FEATURES & BENEFITS

- Eliminates Break-in
- Reduces Friction and Wear
- Increases Part Durability
- Improves Corrosion Resistance
- Reduces Lubrication Requirements and Cost
- Improves Oil Retention Properties
- Reduces Contact and Bending Fatigue
- Improves Pitting Resistance
- Reduces Vibration and Noise
- Extends Component Life
- Reduces Part Failures
- Minimizes Overheating



HIGH-PERFORMANCE GEAR SETS

Description	Ratio
Chrysler 8.75" (742)	3.55, 3.91, 4.30, 4.56
Chrysler 8.75" (742) PRO	4.86
Chrysler 8.75" (489)	3.55, 3.91, 4.56, 4.86
Dana 60 PRO	4.30
Ford 8"	2.80, 3.00, 3.25, 3.55, 3.80, 4.11, 4.62
Ford 8.8"	3.08, 3.55, 3.73, 3.90, 4.10, 4.30, 4.56, 4.71, 4.88, 5.13
Ford 9"	3.00, 3.25, 3.50, 3.70, 3.89, 4.00, 4.11, 4.30, 4.57, 4.63, 4.71, 4.78, 4.86, 5.00, 5.14, 5.29, 5.43, 5.67, 5.83, 6.00
Ford 9" PRO	3.40, 3.50, 3.60, 3.70, 3.89, 4.11, 4.29, 4.57, 4.71, 4.86, 5.00, 5.14, 5.29, 5.43, 5.67, 5.83, 6.00, 6.20, 6.33, 6.50
Ford 9.5" PRO - 35 spline large stem pinion	3.25, 3.40, 3.50, 3.60, 3.70, 3.89, 4.11, 4.29, 4.57, 4.86, 5.00, 5.14
Ford 10" PRO - Dual bolt pattern	3.89, 4.11, 4.29, 4.57, 4.71, 5.00, 5.14, 5.43, 5.67, 5.83, 6.20
GM 12 Bolt Car	3.08, 3.31, 3.42, 3.55, 3.73, 3.73-4, 3.91, 4.11, 4.11 THICK, 4.30, 4.56, 4.56 THICK, 4.88, 5.14, 5.38
GM 12 Bolt Car PRO	4.11, 4.30, 4.56, 4.88, 5.00, 5.14, 5.38, 5.57, 5.86, 6.00, 6.14



BEFORE

AFTER

US Gear is Proud to Announce the Launch of The New Lightning Series!

This high-performance gear set is made in the U.S.A. and undergoes a unique treatment known as Isotropic Superfinishing (ISF®). The ISF® Process produces not only an outstanding highly-polished look, it also generates a non-directional low Ra surface (the measurement of surface finish, or smoothness, of a part). Produced with mass finishing equipment in conjunction with chemical accelerants, the ISF® Process is non-hazardous and environmentally friendly.

Unparalleled Quality and Durability

For the selective car enthusiast, US Gear products have the right stuff to keep you going day after day and mile after mile! This is the highest quality aftermarket replacement available.

Ideal for the weekend warrior, our US Gear Street line will handle anything you can throw at it! Made from high quality American materials, this gear set provides the strength and tenacity to compete...and win!

Perfect for drag racing, our US Gear Competition gears offer high strength and light weight with the necessary muscle to tame huge amounts of torque on the starting line. Run after run, they take a beating and come back for more!

When you buy US Gear product, you can expect:

- High quality gears
- Quiet operation
- Consistent installation and setup
- Detailed instruction sheets
- Durability & longevity

DANA 44 CORVETTE



FORD 8.8"



FORD 9" PRO



DANA 60 PRO



Product Summary

The superior quality of our gear sets is the result of years of development, outstanding design, and state of the art manufacturing processes. US Gear performance products can be found anywhere a premium product is demanded.

We offer ring and pinion sets in a wide range of ratios for many applications. The gear sets are manufactured to the highest quality standards using state of the art CNC machining and gear cutting equipment, and are heat treated on-site in computer controlled furnaces.

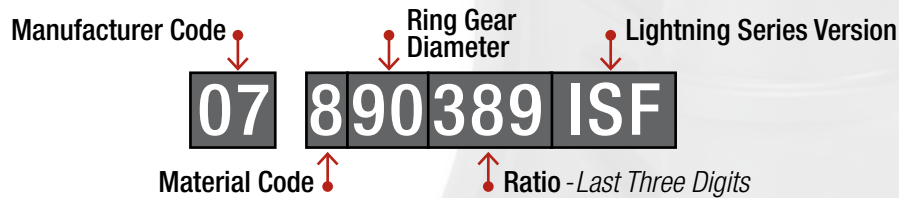
Our core products include ring & pinions, shafts, spur & helical gears, and planetary product, including splined hubs.

Table of Contents



Chrysler 8.75" (489)	6	GM 8.6"-Camaro SS- Gen 5-2010 & Up-V8 engine only	12
Chrysler 8.7" IRS-Challenger/Charger/ Magnum-Getrag H226 -2010 & Newer-SRT8	6	GM 12 Bolt Car-8.875"	12
Dana 36-1984-1996 Corvette	7	GM 12 Bolt Car PRO-8.875"	13
Dana 44 Corvette-1980-1982	7	Specialty Gears/Positractions/Couplers	13
Dana 60 PRO	7	Dana Lightning Series	14-15
Ford 8"	8	NEW! Bearing Kits	16
Ford 8.8"	8	NEW! Installation Kits	17
Ford Super 8.8 IRS	8	Ratio Chooser	18-19
Ford 9"	9	AIM Portal Wheel Ends	20-21
Ford 9" PRO	10	Gear Patterns	22
Ford 9.5" PRO	11	Installation Instructions	23
Ford 10" PRO - Dual bolt pattern	11	Parts Cross Reference	24-25
GM 8.4"-1963-1979 Corvette	12		

Using This Catalog



Manufacturer's Code	Material Code	Ring Gear Diameter	Ratio
01 - GM	8 - 8620	80 = 8.0 inches	342 = 3.42:1
03 - Chrysler (Mopar)	4 - 4320	84 = 8.4 inches	373 = 3.73:1
05 - Dana	9 - 9310	87 = 8.75 inches	389 = 3.89:1
07 - Ford		88 = 8.875 inches	410 = 4.10:1
		90 = 9.0 inches	430 = 4.30:1
		10 = 10 inches	471 = 4.71:1

OUR DOMESTIC MATERIAL CHOICES:

Nickel content affects ductility of gears. The higher the content, the more impact resistant

8620 - Standard OE material - 0.6% nickel
 4320 - High impact material - 1.75% nickel
 9310 - Top fuel / Drag material - 3.1% nickel

Gears



Chrysler 8.7" IRS
03-487355LC/LX

*Durability is
Our Hallmark.*

Part #	Lightning #	Description	Ratio	Tooth Count
Chrysler 8.75" (489)				
Ring Gear Diameter: 8.75"		Carrier Breaks: N/A		
Ring Gear Bolts: 12 - 3/8"X24 LH		Pinion Shaft Diameter: 1.75"		
Cover Bolts: N/A		Spline: 10		
03-887323L	03-887323LISF	CHRYSLER BEVEL SET 8.75L 3.23	3.23	13-42
03-887355L	03-887355LISF	CHRYSLER BEVEL SET 8.75L 3.55	3.55	11-39
03-887373L	03-887373LISF	CHRYSLER BEVEL SET 8.75L 3.73	3.73	11-41
03-887391L	03-887391LISF	CHRYSLER BEVEL SET 8.75L 3.91	3.91	11-43
03-887410L	03-887410LISF	CHRYSLER BEVEL SET 8.75L 4.10	4.10	10-41
03-887430L	03-887430LISF	CHRYSLER BEVEL SET 8.75L 4.30	4.30	10-43
03-887456L	03-887456LISF	CHRYSLER BEVEL SET 8.75L 4.56	4.56	9-41
03-887486L	03-887486LISF	CHRYSLER BEVEL SET 8.75L 4.86	4.86	7-34
03-887513L	03-887513LISF	CHRYSLER BEVEL SET 8.75L 5.13	5.13	8-41

Chrysler 8.7" IRS - Challenger / Charger / Magnum - Getrag H226 - 2010 & Newer - SRT8				
Ring Gear Diameter: 8.7"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 12mmX1.25		Pinion Shaft Diameter: 1.876"		
Cover Bolts: 10		Spline: 30		
03-487323LC/LX	03-487323LC/LXISF	GETRAG H226 3.23 BEVEL SET	3.23	13-42
03-487355LC/LX	03-487355LC/LXISF	GETRAG H226 3.55 BEVEL SET	3.55	11-39
03-487410LC/LX	03-487410LC/LXISF	GETRAG H226 4.10 BEVEL SET	4.10	10-41
03-487429LC/LX	03-487429LC/LXISF	GETRAG H226 4.29 BEVEL SET	4.29	7-30

We switched to US Gear well over 30 years ago. We stock over 12,000 sets of US gears which we sell with confidence because of the quality, plus, they're made here in the good old USA!

So it's a win-win situation – good for our country and good for you. Ask me personally, buy US Gear!

Tom Watt, Tom's Differentials



Part #	Lightning #	Description	Ratio	Tooth Count
Dana 36 - 1984 - 1996 Corvette				
Ring Gear Diameter: 7.75"		Carrier Breaks: 2.73 / 3.07		
Ring Gear Bolts: 10 - 3/8"X24 RH		Pinion Shaft Diameter: 1.375"		
Cover Bolts: 10		Spline: 26		
05-878354C	05-878354CISF	DANA 36 BEVEL SET 3.54 CORVETTE 3.07 & UP	3.54	13-46
05-878354CX	05-878354CXISF	DANA 36 BEVEL SET 3.54 CORVETTE 2.73 & DOWN	3.54 THICK	13-46
05-878373C	05-878373CISF	DANA 36 BEVEL SET 3.73 CORVETTE 3.07 & UP	3.73	11-41
05-878373CX	05-878373CXISF	DANA 36 BEVEL SET 3.73 CORVETTE 2.73 & DOWN	3.73 THICK	11-41

Dana 44 Corvette - 1980 - 1982				
Ring Gear Diameter: 8.87"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 3/8"-24 RH		Pinion Shaft Diameter: 1.626"		
Cover Bolts:		Spline: 29		
D44V/411	D44V/411ISF	DANA BEVEL SET D44 CORVETTE 4.11	4.11	9-37
D44V/433	D44V/433ISF	DANA BEVEL SET D44 CORVETTE 4.33	4.33	9-39
D44V/456	D44V/456ISF	DANA BEVEL SET D44 CORVETTE 4.56	4.56	9-41
D44V/488	D44V/488ISF	DANA BEVEL SET D44 CORVETTE 4.88	4.88	8-39

Dana 60 PRO				
Ring Gear Diameter: 9.75" / 248MM		Carrier Breaks: 4.10 / 4.56		
Ring Gear Bolts: 12 - 1/2"X18 RH		Pinion Shaft Diameter: 1.625"		
Cover Bolts: 10		Spline: 29		
05-997410	05-997410ISF	DANA BEVEL SET 4.10 PRO	4.10	10-41
05-997430	05-997430ISF	DANA BEVEL SET 4.30 PRO	4.30	10-43
05-997456	05-997456ISF	DANA BEVEL SET 4.56 PRO	4.56	9-41
05-997488	05-997488ISF	DANA BEVEL SET 4.88 PRO	4.88	8-39
05-997538	05-997538ISF	DANA BEVEL SET 5.38 PRO	5.38	8-43
05-997557	05-997557ISF	DANA BEVEL SET 5.57 PRO	5.57	7-39
05-997586	05-997586ISF	DANA BEVEL SET 5.86 PRO	5.86	7-41
05-997617	05-997617ISF	DANA BEVEL SET 6.17 PRO	6.17	6-37



Dana 60 Pro
05-997430

*Proudly Made
in the U.S.A.*

Gears

Part #	Lightning #	Description	Ratio	Tooth Count
--------	-------------	-------------	-------	-------------

Ford 8"

Ring Gear Diameter: 8.0"
 Ring Gear Bolts: 10 - 7/16"X20 RH
 Cover Bolts: N/A
 Carrier Breaks: N/A
 Pinion Shaft Diameter: 1.88"
 Spline: 25

07-880280	07-880280ISF	FORD BEVEL SET 8.0 2.80	2.80	15-42
07-880300	07-880300ISF	FORD BEVEL SET 8.0 3.00	3.00	13-39
07-880325	07-880325ISF	FORD BEVEL SET 8.0 3.25	3.25	12-39
07-880355	07-880355ISF	FORD BEVEL SET 8.0 3.55	3.55	9-32
07-880380	07-880380ISF	FORD BEVEL SET 8.0 3.80	3.80	10-38
07-880411	07-880411ISF	FORD BEVEL SET 8.0 4.11	4.11	9-37
07-880462	07-880462ISF	FORD BEVEL SET 8.0 4.62	4.62	8-37

Ford 8.8"

Ring Gear Bolts: 12 - 7/16"X20 RH
 Cover Bolts: 10
 Carrier Breaks: N/A
 Pinion Shaft Diameter: 1.625"
 Spline: 28

07-888308	07-888308ISF	FORD BEVEL SET 8.8 3.08	3.08	13-40
07-888355	07-888355ISF	FORD BEVEL SET 8.8 3.55	3.55	11-39
07-888373	07-888373ISF	FORD BEVEL SET 8.8 3.73	3.73	11-41
07-888390	07-888390ISF	FORD BEVEL SET 8.8 3.90	3.90	10-39
07-888410	07-888410ISF	FORD BEVEL SET 8.8 4.10	4.10	10-41
07-888430	07-888430ISF	FORD BEVEL SET 8.8 4.30	4.30	10-43
07-888456	07-888456ISF	FORD BEVEL SET 8.8 4.56	4.56	9-41
07-888471	07-888471ISF	FORD BEVEL SET 8.8 4.71	4.71	7-33
07-888488	07-888488ISF	FORD BEVEL SET 8.8 4.88	4.88	8-39
07-888513	07-888513ISF	FORD BEVEL SET 8.8 5.13	5.13	8-41

Ford Super 8.8" IRS - 2015 Mustang* **

Ring Gear Bolts: 10 - M12X1.25X26mm
 Cover Bolts: N/A
 Carrier Breaks: N/A
 Pinion Shaft Diameter: 2.001"
 Spline: 30

07-888373-15	07-888373-15ISF	FORD SUPER 8.8 INCH 3.73	3.73	11-41
07-888391-15	07-888391-15ISF	FORD SUPER 8.8 INCH 3.91	3.91	11-43
07-888411-15	07-888411-15ISF	FORD SUPER 8.8 INCH 4.11	4.11	9-37

*Will NOT fit earlier 8.8-inch straight axles found in previous generations.

**Will NOT fit 2015-2017 Mustangs originally equipped with a rear-end housing with factory installed 3.15 gears



Ford 8.8"
07-888430

*Domestic Steel
 & Labor*



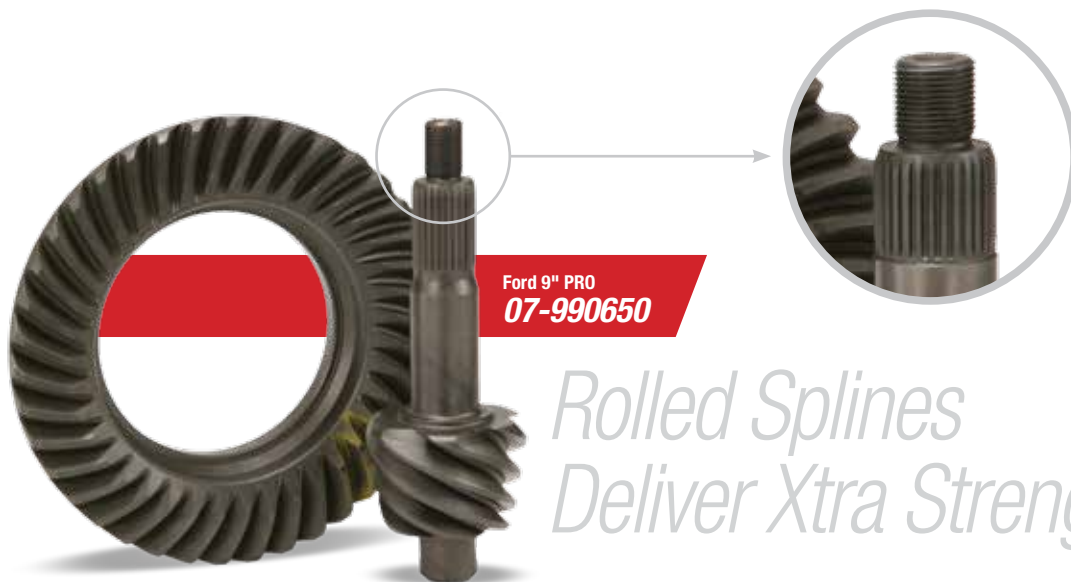
Part #	Lightning #	Description	Ratio	Tooth Count
Ford 9"				
Ring Gear Diameter: 9.0"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 7/16"X20 RH		Pinion Shaft Diameter: 1.312"		
Cover Bolts: N/A		Spline: 28		
07-890300	07-890300ISF	FORD BEVEL SET 9.0 3.30	3.00	13-39
07-890325	07-890325ISF	FORD BEVEL SET 9.0 3.25	3.25	12-39
07-890340	07-890340ISF	FORD BEVEL SET 9.0 3.40	3.40	10-34
07-890350	07-890350ISF	FORD BEVEL SET 9.0 3.50	3.50	10-35
07-890370	07-890370ISF	FORD BEVEL SET 9.0 3.70	3.70	10-37
07-890389	07-890389ISF	FORD BEVEL SET 9.0 3.89	3.89	9-35
07-890400	07-890400ISF	FORD BEVEL SET 9.0 4.00	4.00	9-36
07-890411	07-890411ISF	FORD BEVEL SET 9.0 4.11	4.11	9-37
07-890430	07-890430ISF	FORD BEVEL SET 9.0 4.30	4.30	10-43
07-890457	07-890457ISF	FORD BEVEL SET 9.0 4.57	4.57	7-32
07-890463	07-890463ISF	FORD BEVEL SET 9.0 4.63	4.63	8-37
07-890471	07-890471ISF	FORD BEVEL SET 9.0 4.71	4.71	7-33
07-890478	07-890478ISF	FORD BEVEL SET 9.0 4.78	4.78	9-43
07-890486	07-890486ISF	FORD BEVEL SET 9.0 4.86	4.86	7-34
07-890500	07-890500ISF	FORD BEVEL SET 9.0 5.00	5.00	7-35
07-890514	07-890514ISF	FORD BEVEL SET 9.0 5.14	5.14	7-36
07-890529	07-890529ISF	FORD BEVEL SET 9.0 5.29	5.29	7-37
07-890543	07-890543ISF	FORD BEVEL SET 9.0 5.43	5.43	7-38
07-890567	07-890567ISF	FORD BEVEL SET 9.0 5.67	5.67	6-34
07-890583	07-890583ISF	FORD BEVEL SET 9.0 5.83	5.83	6-35
07-890600	07-890600ISF	FORD BEVEL SET 9.0 6.00	6.00	6-36
07-890620	07-890620ISF	FORD BEVEL SET 9.0 6.20	6.20	5-31
07-890633	07-890633ISF	FORD BEVEL SET 9.0 6.33	6.33	6-38
07-890650	07-890650ISF	FORD BEVEL SET 9.0 6.50	6.50	6-39

DTS is proud to be a distributor of US Gear ring and pinions which are made in the United States of America. We sell with confidence knowing that the end user will be buying a high quality gear along with keeping American's employed.

Drive Train Specialists

Gears

Part #	Lightning #	Description	Ratio	Tooth Count
Ford 9" PRO				
Ring Gear Diameter: 9.0"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 7/16"X20 RH		Pinion Shaft Diameter: 1.312" / 1.5"		
- 10 - 1/2"X20 RH		Spline: 28 / 35		
Cover Bolts: N/A				
07-990340	07-990340ISF	FORD BEVEL SET 9.0 3.40 PRO	3.40	10-34
07-990350	07-990350ISF	FORD BEVEL SET 9.0 3.50 PRO	3.50	10-35
07-990360	07-990360ISF	FORD BEVEL SET 9.0 3.60 PRO	3.60	10-36
07-990370	07-990370ISF	FORD BEVEL SET 9.0 3.70 PRO	3.70	10-37
07-990389	07-990389ISF	FORD BEVEL SET 9.0 3.89 PRO	3.89	9-35
07-990411	07-990411ISF	FORD BEVEL SET 9.0 4.11 PRO	4.11	9-37
07-990429	07-990429ISF	FORD BEVEL SET 9.0 4.29 PRO	4.29	7-30
07-990457	07-990457ISF	FORD BEVEL SET 9.0 4.57 PRO	4.57	7-32
07-990471	07-990471ISF	FORD BEVEL SET 9.0 4.71 PRO	4.71	7-33
07-990486	07-990486ISF	FORD BEVEL SET 9.0 4.86 PRO	4.86	7-34
07-990500	07-990500ISF	FORD BEVEL SET 9.0 5.00 PRO	5.00	7-35
07-990514	07-990514ISF	FORD BEVEL SET 9.0 5.14 PRO	5.14	7-36
07-990529	07-990529ISF	FORD BEVEL SET 9.0 5.29 PRO	5.29	7-37
07-990543	07-990543ISF	FORD BEVEL SET 9.0 5.43 PRO	5.43	7-38
07-990567	07-990567ISF	FORD BEVEL SET 9.0 5.67 PRO	5.67	6-34
07-990583	07-990583ISF	FORD BEVEL SET 9.0 5.83 PRO	5.83	6-35
07-990600	07-990600ISF	FORD BEVEL SET 9.0 6.00 PRO	6.00	6-36
07-990620	07-990620ISF	FORD BEVEL SET 9.0 6.20 PRO	6.20	5-31
07-990633	07-990633ISF	FORD BEVEL SET 9.0 6.33 PRO	6.33	6-38
07-990650	07-990650ISF	FORD BEVEL SET 9.0 6.50 PRO	6.50	6-39



*Rolled Splines
Deliver Xtra Strength!*



Part #	Lightning #	Description	Ratio	Tooth Count
--------	-------------	-------------	-------	-------------

Ford 9.5" PRO - 35 spline large stem pinion

Ring Gear Diameter: 9.25"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 7/16"X20 RH		Pinion Shaft Diameter: 1.5"		
- 10 - 1/2"X20 RH		Spline: 35		
Cover Bolts: N/A				
07-995325	07-995325ISF	FORD BEVEL SET 9.5 3.25 PRO	3.25	12-39
07-995340	07-995340ISF	FORD BEVEL SET 9.5 3.40 PRO	3.40	10-34
07-995350	07-995350ISF	FORD BEVEL SET 9.5 3.50 PRO	3.50	10-35
07-995360	07-995360ISF	FORD BEVEL SET 9.5 3.60 PRO	3.60	10-36
07-995370	07-995370ISF	FORD BEVEL SET 9.5 3.70 PRO	3.70	10-37
07-995389	07-995389ISF	FORD BEVEL SET 9.5 3.89 PRO	3.89	9-35
07-995411	07-995411ISF	FORD BEVEL SET 9.5 4.11 PRO	4.11	9-37
07-995429	07-995429ISF	FORD BEVEL SET 9.5 4.29 PRO	4.29	7-30
07-995457	07-995457ISF	FORD BEVEL SET 9.5 4.57 PRO	4.57	7-32
07-995486	07-995486ISF	FORD BEVEL SET 9.5 4.86 PRO	4.86	7-34
07-995500	07-995500ISF	FORD BEVEL SET 9.5 5.00 PRO	5.00	7-35
07-995514	07-995514ISF	FORD BEVEL SET 9.5 5.14 PRO	5.14	7-36

Ford 10" PRO - Dual bolt pattern

Ring Gear Diameter: 9.4"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 7/16"X20 RH		Pinion Shaft Diameter: 1.5"		
- 10 - 1/2"X20 RH		Spline: 35		
Cover Bolts: N/A				
07-910389	07-910389ISF	FORD BEVEL SET 10.0 3.89 PRO	3.89	9-35
07-910411	07-910411ISF	FORD BEVEL SET 10.0 4.11 PRO	4.11	9-37
07-910429	07-910429ISF	FORD BEVEL SET 10.0 4.29 PRO	4.29	7-30
07-910457	07-910457ISF	FORD BEVEL SET 10.0 4.57 PRO	4.57	7-35
07-910471	07-910471ISF	FORD BEVEL SET 10.0 4.71 PRO	4.71	7-33
07-910500	07-910500ISF	FORD BEVEL SET 10.0 5.00 PRO	5.00	7-35
07-910514	07-910514ISF	FORD BEVEL SET 10.0 5.14 PRO	5.14	7-36
07-910543	07-910543ISF	FORD BEVEL SET 10.0 5.43 PRO	5.43	7-38
07-910567	07-910567ISF	FORD BEVEL SET 10.0 5.67 PRO	5.67	6-34
07-910583	07-910583ISF	FORD BEVEL SET 10.0 5.83 PRO	5.83	6-35
07-910620	07-910620ISF	FORD BEVEL SET 10.0 6.20 PRO	6.20	5-31

There are thousands of gear manufacturers in the world; most are out of the country and, in my opinion, just do not comprehend the performance market. Strange Engineering primarily manufactures its own products, but is very selective when choosing to partner with other companies that enhance its products and brand. We have had a long lasting relationship with US Gear and I can unequivocally state that the people at US Gear "get it." They are not manufacturing the least expensive gear set to get the sale. They are manufacturing a quality US made gear set that is strong, efficient and quiet—not easy to do. More importantly, US Gear is extremely dedicated to continuously improving and investing in making its product better. I believe what really separates a performance company from the rest of the field is a constant obsession with being proud of what you produce today knowing that tomorrow you will evolve and make it better.

Jeff Stange, Strange Engineering

Gears

Part #	Lightning #	Description	Ratio	Tooth Count
--------	-------------	-------------	-------	-------------

GM 8.4" - 1963 - 1979 Corvette

Ring Gear Diameter: 8.32"		Carrier Breaks:		
Ring Gear Bolts: 10 - 3/8"-24 RH		Pinion Shaft Diameter: 1.626"		
Cover Bolts: 10		Spline: 30		
01-884308C	01-884308CISF	GM BEVEL SET 8.4 3.08 CORVETTE	3.08	13-40
01-884336C	01-884336CISF	GM BEVEL SET 8.4 3.36 CORVETTE	3.36	11-37
01-884355C	01-884355CISF	GM BEVEL SET 8.4 3.55 CORVETTE	3.55	11-39
01-884373C	01-884373CISF	GM BEVEL SET 8.4 3.73 CORVETTE	3.73	11-41
01-884411CX	01-884411CXISF	GM BEVEL SET 8.4 4.11 CORVETTE - THICK	4.11 THICK	9-37
01-884433CX	01-884433CXISF	GM BEVEL SET 8.4 4.33 CORVETTE - THICK	4.33 THICK	9-39
01-884456CX	01-884456CXISF	GM BEVEL SET 8.4 4.56 CORVETTE - THICK	4.56 THICK	9-41

GM 8.6" - Camaro SS - Gen 5 - 2010 & Up - V8 engine only

Ring Gear Diameter: 8.6"		Carrier Breaks: N/A		
Ring Gear Bolts: 10 - 7/16"X20 LH		Pinion Shaft Diameter: 1.875"		
Cover Bolts: 10		Spline: 32		
01-486308CM	01-486308CMISF	CAMARO 3.08 BEVEL SET	3.08	13-40
01-486323CM	01-486323CMISF	CAMARO 3.23 BEVEL SET	3.23	13-42
01-486373CM	01-486373CMISF	CAMARO 3.73 BEVEL SET	3.73	11-41
01-486410CM	01-486410CMISF	CAMARO 4.10 BEVEL SET	4.10	10-41

GM 12 Bolt Car - 8.875"

Ring Gear Diameter: 8.875"		Carrier Breaks: 2.76 / 3.08 - 3.90 / 4.10		
Ring Gear Bolts: 12 - 3/8"X24 RH		Pinion Shaft Diameter: 1.625"		
Cover Bolts: 12		Spline: 30		
01-888308	01-888308ISF	GM BEVEL SET 12 BOLT CAR 3.08	3.08	13-40
01-888331	01-888331ISF	GM BEVEL SET 12 BOLT CAR 3.31	3.31	13-43
01-888342	01-888342ISF	GM BEVEL SET 12 BOLT CAR 3.42	3.42	12-41
01-888355	01-888355ISF	GM BEVEL SET 12 BOLT CAR 3.55	3.55	11-39
01-888373	01-888373ISF	GM BEVEL SET 12 BOLT CAR 3.73	3.73	11-41
01-888373-4	01-888373-4ISF	GM BEVEL SET 12 BOLT CAR 3.73 - 4 SERIES CARRIER	3.73-4	11-41
01-888391	01-888391ISF	GM BEVEL SET 12 BOLT CAR 3.91	3.91	11-43
01-888411	01-888411ISF	GM BEVEL SET 12 BOLT CAR 4.11	4.11	9-37
01-888411X	01-888411XISF	GM BEVEL SET 12 BOLT CAR THICK - 3 SERIES CARRIER	4.11 THICK	9-37
01-888430	01-888430ISF	GM BEVEL SET 12 BOLT CAR 4.30	4.30	10-43
01-888456	01-888456ISF	GM BEVEL SET 12 BOLT CAR 4.56	4.56	9-41
01-888456X	01-888456XISF	GM BEVEL SET 12 BOLT CAR 4.56	4.56 THICK	9-41
01-888488	01-888488ISF	GM BEVEL SET 12 BOLT CAR 4.88	4.88	8-39
01-888514	01-888514ISF	GM BEVEL SET 12 BOLT CAR 5.14	5.14	7-36
01-888538	01-888538ISF	GM BEVEL SET 12 BOLT CAR 5.38	5.38	8-43



Part #	Lightning #	Description	Ratio	Tooth Count
--------	-------------	-------------	-------	-------------

GM 12 Bolt Car PRO - 8.875"

Ring Gear Diameter: 8.32" Carrier Breaks: 2.76 / 3.08 - 3.90 / 4.10
 Ring Gear Bolts: 10 - 3/8"-24 RH Pinion Shaft Diameter: 1.625"
 Cover Bolts: 10 Spline: 30

01-988411	01-988411ISF	GM BEVEL SET 12 BOLT CAR 4.11 PRO	4.11	9-37
01-988430	01-988430ISF	GM BEVEL SET 12 BOLT CAR 4.30 PRO	4.30	10-43
01-988456	01-988456ISF	GM BEVEL SET 12 BOLT CAR 4.56 PRO	4.56	9-41
01-988488	01-988488ISF	GM BEVEL SET 12 BOLT CAR 4.88 PRO	4.88	8-39
01-988500	01-988500ISF	GM BEVEL SET 12 BOLT CAR 5.00 PRO	5.00	7-35
01-988514	01-988514ISF	GM BEVEL SET 12 BOLT CAR 5.14 PRO	5.14	7-36
01-988538	01-988538ISF	GM BEVEL SET 12 BOLT CAR 5.38 PRO	5.38	8-43
01-988557	01-988557ISF	GM BEVEL SET 12 BOLT CAR 5.57 PRO	5.57	7-39
01-988586	01-988586ISF	GM BEVEL SET 12 BOLT CAR 5.86 PRO	5.86	7-41
01-988600	01-988600ISF	GM BEVEL SET 12 BOLT CAR 6.00 PRO	6.00	6-36
01-988614	01-988614ISF	GM BEVEL SET 12 BOLT CAR 6.14 PRO	6.14	7-43

When choosing a supplier for key products that you do not manufacture, it is always important to choose wisely. Especially when you have built your brand, and identity by only manufacturing the highest quality parts here in the U.S.A.

Here at Moser, we understand that gear sets require a level of attention that borders on art as much as science...a knack for knowing how, why, and when to apply a skill set. It is with confidence that we recommend U.S. Gear, as they have long been a timely supplier of the highest quality and have dependable delivery times.

Kip Hayden, Moser Engineering



GM 8.875" - 12 bolt Car
01-888373

Specialty Gears / Positractions / Couplers

89-100	8" QUICK CHANGE 4.10	4.10	
J-1881	COUPLER 39 SPLINE		
40000-C	INTERNAL COUPLER		
07-090728	FORD 9" POSI 28 SPLINE		
07-090731	FORD 9" POSI 31 SPLINE		

Ford 9" Positraction - 29 or 31 Spline
07-090731

Precision Crafted.



US Gear proudly introduces isotropic super finished Dana 60 Series OEM products to the market!

Available only in the US Gear Lightning Series, contact us today to place your order!

Lightning #	Description	Ratio	Tooth Count	Comment
Standard Rotation				
708125-6ISF	Spicer OEM Ring & Pinion Kit - Lightning Series	3.54	13-46	Includes hardware, Bearings Seals, Shims, Spacers
24813XISF	Spicer OEM Ring & Pinion - Lightning Series	3.54	13-46	
76089XISF	Spicer OEM Ring & Pinion - Lightning Series	3.73	11-41	
76047XISF	Spicer OEM Ring & Pinion - Lightning Series	4.10	10-41	
25127-5XISF	Spicer OEM Ring & Pinion Kit - Lightning Series	4.56	9-41	Includes hardware
70907XISF	Spicer OEM Ring & Pinion - Lightning Series	4.56X	9-41	Thick - 4.10 & down carrier case
25334XISF	Spicer OEM Ring & Pinion - Lightning Series	4.88	8-39	
2019214ISF	Spicer OEM Ring & Pinion - Lightning Series	4.88X	8-39	Thick - 4.10 & down carrier case
2019217ISF	Spicer OEM Ring & Pinion - Lightning Series	5.13X	8-41	Thick - 4.10 & down carrier case
27518XISF	Spicer OEM Ring & Pinion - Lightning Series	5.38	8-43	
25784XISF	Spicer OEM Ring & Pinion - Lightning Series	5.86	7-41	
26628XISF	Spicer OEM Ring & Pinion - Lightning Series	6.17	6-37	
26756XISF	Spicer OEM Ring & Pinion - Lightning Series	7.17	6-43	

** Dana 60 / 248 applications

Dana Super 60 Gear - 256 MM				
84674ISF	Spicer OEM Ring & Pinion - Lightning Series	4.10	10-41	Ring and Pinion Only
84676ISF	Spicer OEM Ring & Pinion - Lightning Series	4.88	8-39	Ring and Pinion Only
84677ISF	Spicer OEM Ring & Pinion - Lightning Series	5.38	8-43	Ring and Pinion Only

** Dana 60 / 248 applications

*Genuine Dana Spicer
OEM Gears Exclusively
in Our Lightning Series*



Lightning #	Description	Ratio	Tooth Count	Comment
-------------	-------------	-------	-------------	---------

Reverse Rotation

Spicer Part No.	Description	Ratio	Tooth Count	Comment
700020-1ISF	Spicer OEM Ring & Pinion Kit - Lightning Series	3.54	13-46	Kit includes bearings, seals, shims, ring gear bolts and pinion nut
2013462ISF	Spicer OEM Ring & Pinion - Lightning Series	3.73	11-41	Ring and Pinion Only
76159-5XISF	Spicer OEM Ring & Pinion Kit - Lightning Series	4.10	10-41	Kit includes ring gear bolts and pinion nut
708233-3ISF	Spicer OEM Ring & Pinion Kit - Lightning Series	4.30	10-43	Kit includes bearings, seals, shims, ring gear bolts and pinion nut
708123-4ISF	Spicer OEM Ring & Pinion Kit - Lightning Series	4.88	8-39	Kit includes bearings, seals, shims, ring gear bolts and pinion nut
708123-5ISF	Spicer OEM Ring & Pinion Kit - Lightning Series	5.38	8-43	Kit includes bearings, seals, shims, ring gear bolts and pinion nut

** Dana 60 / 248 applications



NEW FROM US GEAR!

LIGHTNING
ISOTROPIC SUPERFINISHED GEAR SET

Bearing & Installation Kits

Bearing Kits

Part #	Description
Chrysler 8.75" (489)	
US1031	CHRY 8.75 BEARING KIT 489 CAST
US1031R	CHRY 8.75 BEARING KIT 489 CAST - RARE SIDE BEARINGS AND RACES - 25590/25520 (FACTORY P/L)
Chrysler 8.75" (742)	
US1037	CHRY 8.75 BEARING KIT 742 CAST
US1037A	CHRY 8.75 BEARING KIT 742 CAST - USE WITH SPOOL / LOCKER / AUBURN / TRUETRAC
Dana 60	
US1034	DANA 60 BEARING KIT
GM 12 Bolt Car	
US1019	GM 8.875P BEARING KIT
GM 8.6" - Camaro SS - Gen 5 - 2010 & Up - V8 engine only	
US1021IRS	GM 8.6 IRS BEARING KIT 09&UP - 218mm V8 CAMARO
Ford 8"	
US1039	FORD 8 BEARING KIT
US1039A	FORD 8 BEARING KIT - FOR AUBURN AND TRUETRAC DIFFS - FACTORY T/L USES 1.25" RGBOLTS
Ford 8.8"	
US1013	FORD 8.8 BEARING KIT
US1013A	FORD 8.8 BEARING KIT 2009-14 - W/KOYO ST4190 INNER PINION BRG - 2009-14 F150 & LINCOLN MARK LT - SOME 11-14 MUSTANG
Ford Super 8.8" IRS - 2015 Mustang	
US1013IRSC#2	FORD 8.8 BEARING KIT - FITS 2015 & UP MUSTANG ONLY
Ford 9"	
US1011	FORD 9 BEARING KIT STD SUPPORT 2.895
US1011B	FORD 9 BEARING KIT WAR PIG - USES LM501310 AND LM501349 CARRIER BEARINGS
US1069	FORD 9 BEARING KIT DAYTONA W / 2.895 CS - DAYTONA NOSE PIECE
US1012	FORD 9 BEARING KIT STD SUPPORT 3.062
US1038	FORD 9 BEARING KIT DAYTONA W / 3.062
US1066	FORD 9 BEARING KIT DAYTONA W / 3.250
US1063	FORD 9 BEARING KIT 35 SPL 3.250" CASE
Ford 9.5" PRO - 35 spline large stem pinion	
US1013IRSC#2	FORD 8.8 BEARING KIT - FITS 2015 & UP MUSTANG ONLY
Ford 10" PRO - Dual bolt pattern	
US1063B	FORD 10 BEARING KIT ULTRACASE - 35 SPLINE PINION 3.812 BORE

*Bulk / loose bearings also available. Contact your Sales Representative for details.

Installation Kits

Part #	Description
Chrysler 8.75" (489)	
US2031	CHRY 8.75 INSTALL KIT-489 CAST
Chrysler 8.75" (742)	
US2037	CHRY 8.75 INSTALL KIT-742 CAST
Dana 60	
US2034	DANA 60 INSTALL KIT
Ford 8"	
US2039	FORD 8 INSTALL KIT
Ford 8.8"	
US2013	FORD 8.8 INSTALL KIT
Ford Super 8.8" IRS - 2015 Mustang	
US2013IRSC#2	FORD 8.8 INSTALL KIT - FITS 2015 & UP MUSTANG ONLY
Ford 9"	
US2011	FORD 9 INSTALL KIT W/ CRUSH SLEEVE
US2069	FORD 9 INSTALL KIT W/SOLID SPACER
US2063	FORD 9 INSTALL KIT - PRO - 3.250 CASE LARGE PINION
Ford 9.5" PRO - 35 spline large stem pinion	
US2063A	FORD 9.5 INSTALL KIT ULTRACASE - 35 SPLINE PINION 3.812 BORE
Ford 10" PRO - Dual bolt pattern	
US2063B	FORD 10" INSTALL KIT ULTRACASE - 35 SPLINE PINION 3.812 BORE
GM 12 Bolt Car	
US2019	GM 8.875P INSTALL KIT - 1964-72
GM 8.6" - Camaro SS - Gen 5 - 2010 & Up - V8 engine only	
US2021IRS	GM 8.6 IRS INSTALL KIT 09&UP - 218mm V8 CAMARO

At Quick Performance, we proudly stock, distribute, and use US Gear in our differential / axle builds. Their quality is superb and their product is Made in the USA.

Brydon , Quick Performance



Ratio Chooser

RPM @ 65 MPH

	24	25	26	27	28	29	30	31	32	33	34	35	36	37
2.80	2548	2446	2352	2265	2184	2109	2038	1973	1911	1853	1799	1747	1699	1653
3.00	2730	2621	2520	2427	2340	2259	2184	2114	2048	1985	1927	1872	1820	1771
3.08	2803	2691	2587	2491	2402	2320	2242	2170	2102	2038	1978	1922	1869	1818
3.23	2939	2822	2713	2613	2519	2433	2351	2276	2204	2138	2075	2016	1960	1907
3.25	2958	2839	2730	2629	2535	2448	2366	2290	2218	2151	2088	2028	1972	1918
3.27	2976	2857	2747	2645	2551	2463	2381	2304	2232	2164	2100	2040	1984	1930
3.31	3012	2892	2780	2677	2582	2493	2410	2332	2259	2191	2126	2065	2008	1954
3.36	3058	2935	2822	2718	2621	2530	2446	2367	2293	2224	2158	2097	2038	1983
3.40	3094	2970	2856	2750	2652	2561	2475	2395	2321	2250	2184	2122	2063	2007
3.42	3112	2988	2873	2766	2668	2576	2490	2409	2334	2263	2197	2134	2075	2019
3.50	3185	3058	2940	2831	2730	2636	2548	2466	2389	2316	2248	2184	2123	2066
3.54	3221	3093	2974	2863	2761	2666	2577	2494	2416	2343	2274	2209	2148	2090
3.55	3231	3101	2982	2872	2769	2674	2584	2501	2423	2349	2280	2215	2154	2095
3.60	3276	3145	3024	2912	2808	2711	2621	2536	2457	2383	2312	2246	2184	2125
3.70	3367	3232	3108	2993	2886	2786	2694	2607	2525	2449	2377	2309	2245	2184
3.73	3394	3259	3133	3017	2909	2809	2715	2628	2546	2469	2396	2328	2263	2202
3.80	3458	3320	3192	3074	2964	2862	2766	2677	2594	2515	2441	2371	2305	2243
3.89	3540	3398	3268	3147	3034	2930	2832	2741	2655	2574	2499	2427	2360	2296
3.90	3549	3407	3276	3155	3042	2937	2839	2748	2662	2581	2505	2434	2366	2302
3.91	3558	3416	3284	3163	3050	2945	2846	2755	2669	2588	2512	2440	2372	2308
4.00	3640	3494	3360	3236	3120	3012	2912	2818	2730	2647	2569	2496	2427	2361
4.10	3731	3582	3444	3316	3198	3088	2985	2889	2798	2713	2634	2558	2487	2420
4.11	3740	3590	3452	3325	3206	3095	2992	2896	2805	2720	2640	2565	2493	2426
4.22	3840	3687	3545	3414	3292	3178	3072	2973	2880	2793	2711	2633	2560	2491
4.29	3904	3748	3604	3470	3346	3231	3123	3022	2928	2839	2756	2677	2603	2532
4.30	3913	3756	3612	3478	3354	3238	3130	3029	2935	2846	2762	2683	2609	2538
4.33	3940	3783	3637	3502	3377	3261	3152	3051	2955	2866	2781	2702	2627	2556
4.56	4150	3984	3830	3689	3557	3434	3320	3213	3112	3018	2929	2845	2766	2692
4.57	4159	3992	3839	3697	3565	3442	3327	3220	3119	3025	2936	2852	2772	2698
4.62	4204	4036	3881	3737	3604	3479	3363	3255	3153	3058	2968	2883	2803	2727
4.63	4213	4045	3889	3745	3611	3487	3371	3262	3160	3064	2974	2889	2809	2733
4.71	4286	4115	3956	3810	3674	3547	3429	3318	3215	3117	3025	2939	2857	2780
4.78	4350	4176	4015	3866	3728	3600	3480	3368	3262	3163	3070	2983	2900	2821
4.86	4423	4246	4082	3931	3791	3660	3538	3424	3317	3216	3122	3033	2948	2869
4.88	4441	4263	4099	3947	3806	3675	3553	3438	3331	3230	3135	3045	2961	2881
5.00	4550	4368	4200	4044	3900	3766	3640	3523	3413	3309	3212	3120	3033	2951
5.13	4668	4482	4309	4150	4001	3863	3735	3614	3501	3395	3295	3201	3112	3028
5.14	4677	4490	4318	4158	4009	3871	3742	3621	3508	3402	3302	3207	3118	3034
5.29	4814	4621	4444	4279	4126	3984	3851	3727	3610	3501	3398	3301	3209	3123
5.38	4896	4700	4519	4352	4196	4052	3917	3790	3672	3561	3456	3357	3264	3176
5.40	4914	4717	4536	4368	4212	4067	3931	3804	3686	3574	3469	3370	3276	3187
5.43	4941	4744	4561	4392	4235	4089	3953	3826	3706	3594	3488	3388	3294	3205
5.50	5005	4805	4620	4449	4290	4142	4004	3875	3754	3640	3533	3432	3337	3246
5.57	5069	4866	4679	4506	4345	4195	4055	3924	3802	3686	3578	3476	3379	3288
5.67	5160	4953	4763	4586	4423	4270	4128	3995	3870	3753	3642	3538	3440	3347
5.83	5305	5093	4897	4716	4547	4391	4244	4107	3979	3858	3745	3638	3537	3441
5.86	5333	5119	4922	4740	4571	4413	4266	4128	3999	3878	3764	3657	3555	3459
6.00	5460	5242	5040	4853	4680	4519	4368	4227	4095	3971	3854	3744	3640	3542
6.14	5587	5364	5158	4967	4789	4624	4470	4326	4191	4064	3944	3831	3725	3624
6.17	5615	5390	5183	4991	4813	4647	4492	4347	4211	4083	3963	3850	3743	3642
6.20	5642	5416	5208	5015	4836	4669	4514	4368	4232	4103	3983	3869	3761	3660
6.33	5760	5530	5317	5120	4937	4767	4608	4460	4320	4189	4066	3950	3840	3736
6.43	5851	5617	5401	5201	5015	4842	4681	4530	4388	4255	4130	4012	3901	3795
6.50	5915	5678	5460	5258	5070	4895	4732	4579	4436	4302	4175	4056	3943	3837

Gear Ratio



Tire Diameter

38	39	40	41	42	43	44	
1609	1568	1529	1492	1456	1422	1390	2.80
1724	1680	1638	1598	1560	1524	1489	3.00
1770	1725	1682	1641	1602	1564	1529	3.08
1856	1809	1764	1721	1680	1641	1603	3.23
1868	1820	1775	1731	1690	1651	1613	3.25
1879	1831	1785	1742	1700	1661	1623	3.27
1902	1854	1807	1763	1721	1681	1643	3.31
1931	1882	1835	1790	1747	1707	1668	3.36
1954	1904	1856	1811	1768	1727	1688	3.40
1966	1915	1867	1822	1778	1737	1698	3.42
2012	1960	1911	1864	1820	1778	1737	3.50
2035	1982	1933	1886	1841	1798	1757	3.54
2040	1988	1938	1891	1846	1803	1762	3.55
2069	2016	1966	1918	1872	1828	1787	3.60
2127	2072	2020	1971	1924	1879	1837	3.70
2144	2089	2037	1987	1940	1894	1851	3.73
2184	2128	2075	2024	1976	1930	1886	3.80
2236	2178	2124	2072	2023	1976	1931	3.89
2241	2184	2129	2077	2028	1981	1936	3.90
2247	2190	2135	2083	2033	1986	1941	3.91
2299	2240	2184	2131	2080	2032	1985	4.00
2356	2296	2239	2184	2132	2082	2035	4.10
2362	2302	2244	2189	2137	2087	2040	4.11
2425	2363	2304	2248	2194	2143	2095	4.22
2466	2402	2342	2285	2231	2179	2129	4.29
2471	2408	2348	2291	2236	2184	2134	4.30
2489	2425	2364	2307	2252	2199	2149	4.33
2621	2554	2490	2429	2371	2316	2263	4.56
2627	2559	2495	2434	2376	2321	2268	4.57
2655	2587	2523	2461	2402	2347	2293	4.62
2661	2593	2528	2466	2408	2352	2298	4.63
2707	2638	2572	2509	2449	2392	2338	4.71
2747	2677	2610	2546	2486	2428	2373	4.78
2793	2722	2654	2589	2527	2468	2412	4.86
2805	2733	2664	2599	2538	2479	2422	4.88
2874	2800	2730	2663	2600	2540	2482	5.00
2948	2873	2801	2733	2668	2606	2546	5.13
2954	2878	2806	2738	2673	2611	2551	5.14
3040	2962	2888	2818	2751	2687	2626	5.29
3092	3013	2937	2866	2798	2733	2670	5.38
3104	3024	2948	2876	2808	2743	2680	5.40
3121	3041	2965	2892	2824	2758	2695	5.43
3161	3080	3003	2930	2860	2793	2730	5.50
3201	3119	3041	2967	2896	2829	2765	5.57
3259	3175	3096	3020	2948	2880	2814	5.67
3351	3265	3183	3106	3032	2961	2894	5.83
3368	3282	3200	3122	3047	2976	2909	5.86
3448	3360	3276	3196	3120	3047	2978	6.00
3529	3438	3352	3271	3193	3119	3048	6.14
3546	3455	3369	3287	3208	3134	3063	6.17
3563	3472	3385	3303	3224	3149	3077	6.20
3638	3545	3456	3372	3292	3215	3142	6.33
3696	3601	3511	3425	3344	3266	3192	6.43
3736	3640	3549	3462	3380	3301	3226	6.50

This chart shows RPM (rotations per minute) calculations at 65 miles per hour for various combinations of final gear ratios.

The shaded area represents the generally accepted 2,000 to 3,000 RPM range

- Improved fuel economy
- Optimum range
- Improved Power

Tire size, transmission ratio, final gear ratio, and engine RPM at cruising speed must be considered.

$$\text{Ratio} = \frac{\text{RPM} \times \text{Tire Diameter}}{\text{MPH} \times 336}$$

$$\text{RPM} = \frac{\text{MPH} \times \text{Gear Ratio} \times 336}{\text{Tire Diameter}}$$

$$\text{MPH} = \frac{\text{RPM} \times \text{Tire Diameter}}{\text{Gear Ratio} \times 336}$$

$$\text{Tire Diameter} = \frac{\text{MPH} \times \text{Gear Ratio} \times 336}{\text{RPM}}$$

Recommended RPM at 60 MPH	
4 Cylinder	2,200 - 3,200
6 Cylinder	2,000 - 3,000
Small Block	1,800 - 2,800
Big Block	1,600 - 2,600
GM Diesel 6.2L	1,800 - 2,800
Ford diesel (Non-turbo)	1,600 - 2,500
Ford diesel (Turbo)	1,400 - 2,200
Dodge Diesel	1,400 - 2,200

This chart assumes a manual transmission and a final drive ratio of 1:1. Multiply by the overdrive ratio for RPM (Example RPM x 0.70)

Portal Wheel Ends



PERFORMANCE

Four gear design – no reverse rotation gearing required (no flipped diffs!)

4.9 inch lift for improved ground clearance

1.5:1 reduction ratio for increased wheel torque without increased stress on the ring and pinion

Heavy duty vented rotor with Wilwood four piston caliper

CTIS available

STRENGTH

Ductile iron case for high yield strength and toughness

2.25 inch wide gears for maximum torque capacity and life

1.5 inch diameter/35 spline input shafts

2 inch diameter/41 spline output shafts

FLEXIBILITY

Patented modular design – attachment knuckle can be removed and replaced for use with multiple axle housings

Drive/steer units use standard Dana 60 U-joint

Available in two-wheel steer or four-wheel steer configurations

Optional second caliper for maximum braking performance

Vehicle set kits include:

4 portal boxes, 4 rotors,
4 calipers, & attachment
hardware



Rigid axle kits include:

2 axle shafts, 2 hanger
brackets



Steer axle kits include:

2 or 4 knuckles
(depending on kit)



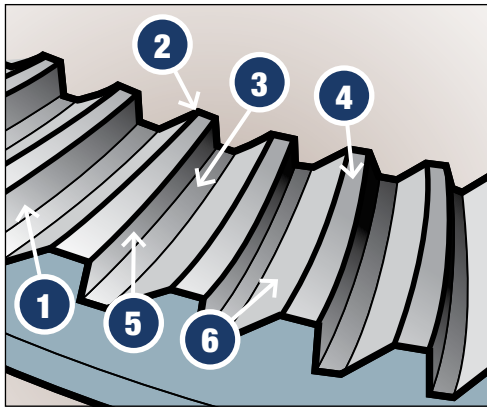
Kits do not include:

Inner C's, king pin kits

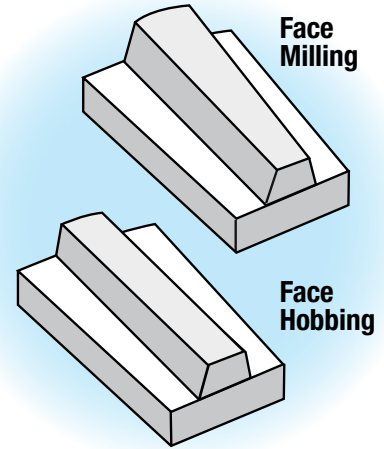
Part Number	Description
940001529A01	Ford Portal Kit (D60 King pin steer axle & Ford 10.25" / 10.5" rigid axle)
940001528A01	GM Portal Kit (D60 King pin steer axle & GM 14 Bolt rigid axle)
940001503A01	D60 4 Wheel Steer (2 - D60 King pin steer axle kits)
940001864A01	Single Axle Kit - Dana 60 Kingpin Steer
940001865A01	Single Axle Kit - Ford 10.25" / 10.5" Rigid
940001866A01	Single Axle Kit - GM 14 Bolt Rigid
940002030A01	Brake Upgrade Kit - 2 calipers, pads and hardware kit

Gear Patterns & Installation

Gearing Contact Patterns



1. Heal of Tooth
2. Toe of Tooth
3. Root of Tooth
4. Crown of Tooth
5. Drive Side of Gear
6. Coast side of Gear



Condition	Face Milling	Face Hobbing	Action Required
A Optimal Contact Pattern is concentrated in the center of the drive gear tooth.			No action required.
B High Contact Pattern is concentrated at the crown of the crown of the drive gear tooth.			Move the pinion deeper in towards the differential carrier (add pinion shim).
C Low Contact Pattern is concentrated in the root of the drive gear tooth.			Move the pinion out, away from the differential carrier (subtract pinion shim).
Heel Contact Pattern is concentrated off the heel end of the drive gear tooth.			Move the ring gear closer to the pinion (decrease backlash) while maintaining minimum backlash.
Toe Contact Pattern is concentrated off the toe end of the drive gear tooth.			Move the ring gear away from the pinion (increase backlash) while maintaining minimum backlash.



Installation Instructions U.S. Gear Street & Competition Ring & Pinion Sets

1. Remove the old gear set and thoroughly clean both the ring gear carrier and rear end housing with solvent. After cleaning, air-dry all parts.
2. Examine the ring gear mounting surface for nicks or burrs which might prevent a flush mounting of the newly installed ring gear. Ring/Pinion tooth depth variations can result from a ring gear that is "cocked" on its mounting surface. If a ring gear spacer is to be used, also check it for surface imperfections. Nicks or burrs can be removed by using block-backed grit paper or a small file. Following material removal, rewash in solvent and air dry. Mount ring gear. Loctite ring gear bolts and torque to factory specifications.
3. All U.S. Gear gears have been "lapped" in sets and should never be mixed with another ring gear or pinion. Check to see serial numbers are the same on the ring gear and pinion.
4. Each U.S. Gear gear set is pre-run and marked on the pinion face with its proper depth setting called the "Checking Distance". This dimension is from the face of the pinion to the axle centerline. A setting tool must be used to measure the checking distance. Pinion depth is adjusted by adding or subtracting shim thickness. Stay +/- .002 of the pinion dimension.
5. Once the pinion depth is achieved, install a new crush collar (preload shim pack for Dana's) and seal. Then loctite the pinion nut and tighten to 15 inch-pounds rotating torque with used bearings or 25 inch-pounds with new bearings (we recommend use of new bearings on new builds).
6. With the pinion gear installed, position ring gear and carrier into housing to check backlash. Our are developed to be run at .008" to .012" backlash for street gear sets and .006" to .008" backlash for competition gear sets.
7. Adjustments for backlash are done by spanner rings in the housing or shim packs behind the carrier bearing cups (GM) or cones (Dana). Always be sure carrier bearings are pre-loaded. The carrier should not fall out of the housing, but should have to be "tapped" in during final installation. Replace bearing caps and torque to factory specifications.
8. You are now ready to verify the tooth contact pattern. A gear marking compound should be used. Paint gear teeth with compound in several spots and rotate ring gear several revolutions. A tooth contact pattern will appear and should be similar to the pattern shown in Illustration 'A'. If the pattern is not in the approximate position shown, reset pinion depth and backlash to correct pattern. Pinion shims usually must be moved in .003 of an inch increments to notice a pattern change. If a pattern is heavy toe subtract shims, (See Illustration C). If a pattern is heavy heel add shims, (See Illustration B).

NOTE: Reverse this procedure for 8" and 9" Ford.

9. Fill the case with the required amount of EP85-90 gear lube, and maintain the proper level at all times. Proper maintenance is a must to protect you and the gear set.

Break In Procedure

A new ring and pinion installed with new bearing following will initially generate higher than normal operating temperatures. It is advisable to use whichever of the break in procedures matches your application.

STREET APPLICATIONS:

- 1) With car still on jack stands and rear-end filled with proper amount of lube, run in forward and reverse approximately 2 to 3 minutes. ***
- 2) Drive vehicle approximately 10 miles at normal operating speeds. Accelerate and decelerate several times conservatively, then let cool for one hour.

COMPETITION APPLICATIONS:

- 1) Repeat step one above. ***
- 2) Run several laps at slow to medium speeds; let cool.
- 3) Run several hot laps; let cool.

FOR DRAG RACING

- 1) Repeat step one above. ***
- 2) Pull to line.

Torque Specifications

Application	Ring Gear Bolts	Carrier Cap Bolts
Chrysler 8.75"	45 ft lbs	75 ft lbs
Dana 60	110 ft lbs	85 ft lbs
Ford 8.0	70 ft lbs	50-60 ft lbs
Ford 8.8	70 ft lbs	70-85 ft lbs
Ford 9"	70 ft lbs	75 ft lbs
GM 12 Bolt	45 ft lbs	50-60 ft lbs

IMPORTANT: WE HIGHLY RECOMMEND THAT YOU READ THIS SET OF INSTRUCTIONS COMPLETELY BEFORE BEGINNING THE INSTALLATION OF THIS NEW GEAR SET. CORRECT INSTALLATION CAN BE THE DIFFERENCE IN A SAFE EXTENDED GEAR LIFE...OR PREMATURE FAILURE.

*****WARNING:** OPERATOR MUST REMAIN IN DRIVER'S SEAT AND ALWAYS MAKE SURE FRONT WHEELS ARE BLOCKED AND JACK STANDS ARE SECURED BEFORE ATTEMPTING THIS PROCEDURE — NEVER EXCEED 2000 RPM WITH WHEELS OFF GROUND. FAILURE TO FOLLOW THIS WARNING COULD RESULT IN SERIOUS DAMAGE, PHYSICAL INJURY OR DEATH!

Parts Cross Reference

Motive Gear	US Gear
C887355L	03-887355L
C887373L	03-887373L
C887391L	03-887391L
C887410L	03-887410L
C887456L	03-887456L
C887486L	03-887486L
D997410	05-997410
D997430	05-997430
D997456	05-997456
D997488	05-997488
F880300	07-880300
F880325	07-880325
F880355	07-880355
F880380	07-880380
F880411	07-880411
F8.8-308	07-888308
F888355	07-888355
F888373	07-888373
F888390	07-888390
F8.8-410	07-888410
F888410	07-888410
F888430	07-888430
F8.8-456	07-888456
F888456	07-888456
F888488	07-888488
F888514	07-888513
F988390	07-988390
F890300	07-890300
F890325	07-890325
F890350	07-890350
F890370	07-890370
F890380N	07-890380
F890389	07-890389
F890400N	07-890400
F890411	07-890411
F890430	07-890430
F890457	07-890457
F890471	07-890471
F890486	07-890486
F890500	07-890500
F890514	07-890514
F890529	07-890529
F890543	07-890543
F890567	07-890567
F890583	07-890583
F890600	07-890600
F890620	07-890620
F890633	07-890633
F890650	07-890650
F990350SP	07-990350
F990370BP	07-990370
F990389BP	07-990389
F990411BP	07-990411
F990429BP	07-990429
F990457BP	07-990457

F990471SP	07-990471
F990486BP	07-990486
F990500SP	07-990500
F990514SP	07-990514
F990529SP	07-990529
F990543SP	07-990543
F990567SP	07-990567
F990583SP	07-990583
F990600SP	07-990600
F990620SP	07-990620
F990650SP	07-990650
F995389BP	07-995389
F995411BP	07-995411
F995429BP	07-995429
F995456BP	07-995457
F910411	07-910411
F910429	07-910429
F910457	07-910457
F910500	07-910500
F910514	07-910514
F910543	07-910543
V885355	01-884355C
G888342	01-888342
G888355	01-888355
G888373	01-888373
G888390	01-888391
G888411	01-888411
G888411X	01-888411X
G888430	01-888430
G888456	01-888456
G888488	01-888488
G888514	01-888514
G988411	01-988411
G988430	01-988430
G988456	01-988456
G988488	01-988488
G988514	01-988514

Richmond Gear	US Gear
69-0371-1	03-887355L
69-0058-1	03-887391L
69-0059-1	03-887410L
69-0060-1	03-887430L
69-0061-1	03-887456L
69-0062-1	03-887486L
69-0063-1	03-887513L
49-0143-1	05-878354CX
49-0110-1	05-878373CX
79-0011-1	05-997410
79-0077-1	05-997456
79-0068-1	05-997488
79-0013-1	05-997538
79-0041-1	05-997617
49-0100-1	07-880300
49-0101-1	07-880355

49-0111-1	07-880380
69-0064-1	07-880411
69-0065-1	07-880462
49-0103-1	07-888355
49-0104-1	07-888373
69-0310-1	07-888410
69-0376-1	07-888430
69-0312-1	07-888456
69-0382-1	07-888488
79-0128-L	07-988411
79-0131-L	07-988429
49-0038-1	07-890300
69-0284-1	07-890325
49-0027-1	07-890350
69-0361-1	07-890370
69-0442-L	07-890380
69-0177-1	07-890389
69-0179-1	07-890411
69-0367-1	07-890422
69-0161-1	07-890430
69-0185-1	07-890457
69-0379-1	07-890463
69-0067-1	07-890486
69-0360-1	07-890500
69-0068-1	07-890514
69-0270-1	07-890529
69-0069-1	07-890543
69-0070-1	07-890567
69-0288-1	07-890583
69-0199-1	07-890600
69-0290-1	07-890620
69-0276-1	07-890633
69-0197-1	07-890650
79-0001-1	07-990340
79-0002-1	07-990350
79-0003-1	07-990360
79-0004-1	07-990370
79-0043-1	07-990389
79-0045-1	07-990411
79-0079-1	07-990429
79-0080-1	07-990457
79-0070-1	07-990471
79-0060-1	07-990486
79-0078-1	07-990500
79-0017-1	07-990514
79-0069-1	07-990529
79-0005-1	07-990543
79-0007-1	07-990567
79-0019-1	07-990583
79-0021-1	07-990600
79-0023-1	07-990620
79-0054-1	07-990650
79-0097-1	07-995411
79-0098-1	07-995429
79-0101-1	07-995457
79-0108-L	07-995500



49-0097-1	01-884308C
49-0139-1	01-884336C
49-0023-1	01-884373C
49-0094-1	01-888308
49-0113-1	01-888342
49-0095-1	01-888355
49-0039-1	01-888373
49-0096-1	01-888373-4
49-0040-1	01-888391
69-0304-1	01-888411
69-0031-1	01-888411X
69-0378-1	01-888430
69-0306-1	01-888456
69-0032-1	01-888456X
69-0033-1	01-888488
69-0034-1	01-888514
69-0035-1	01-888538
79-0099-1	01-988411
79-0074-1	01-988430
79-0072-1	01-988456
79-0064-1	01-988488
79-0027-1	01-988514
79-0029-1	01-988538
79-0031-1	01-988557
79-0033-1	01-988586
79-0035-1	01-988614

Yukon Gear	US Gear
YG C8.89-355 [24010]	03-887355L
YG C8.89-390 [24011]	03-887391L
YG C8.89-411 [24240]	03-887410L
YG C8.89-430 [24241]	03-887430L
YG C8.89-456 [24242]	03-887456L
YG C8.89-486 [24243]	03-887486L
YG C8.89-513 [24244]	03-887513L
YG D36-354 [24280]	05-878354C
YG D36-354T [24281]	05-878354CX
YG D36-373 [24282]	05-878373C
YG D36-373T [24283]	05-878373CX
YG F8-300 [24343]	07-880300
YG F8-325 [24344]	07-880325
YG F8-355 [24092]	07-880355
YG F8-380 [24093]	07-880380
YG F8-411 [24094]	07-880411
YG F8-462 [24345]	07-880462
YG F8.8-308 [24349]	07-888308
YG F8.8-355 [24095]	07-888355
YG F8.8-373 [24096]	07-888373
YG F8.8-411 [24097]	07-888410
YG F8.8-411 [24097]	07-888410
YG F8.8-430 [24353]	07-888430
YG F8.8-456 [24098]	07-888456
YG F8.8-488 [24099]	07-888488
YG F8.8-513 [24100]	07-888513
YG F9-300 [24363]	07-890300
YG F9-325 [24367]	07-890325

YG F9-350 [24105]	07-890350
YG F9-370 [24106]	07-890370
YG F9-389 [24107]	07-890389
YG F9-411 [24108]	07-890411
YG F9-430 [24377]	07-890430
YG F9-456 [24109]	07-890457
YG F9-471 [24383]	07-890471
YG F9-478 [24384]	07-890478
YG F9-486 [24110]	07-890486
YG F9-500 [24385]	07-890500
YG F9-513 [24111]	07-890514
YG F9-529 [24387]	07-890529
YG F9-543 [24388]	07-890543
YG F9-567 [24389]	07-890567
YG F9-583 [24391]	07-890583
YG F9-600 [24392]	07-890600
YG F9-614 [24393]	07-890614
YG F9-620 [24394]	07-890620
YG F9-633 [24395]	07-890633
YG F9-650 [24396]	07-890650
YG F9-PRO-429-0 [24425]	07-990429
YG F9-PRO-456-0 [24427]	07-990457
YG GM55P-411T [24469]	01-884411CX
YG GM12P-308 [24448]	01-888308
YG GM12P-331 [24571]	01-888355
YG GM12P-342 [24121]	01-888342
YG GM12P-355 [24122]	01-888355
YG GM12P-373 [24123]	01-888373
YG GM12P-373-4 [24124]	01-888373-4
YG GM12P-390 [24125]	01-888391
YG GM12P-411 [24126]	01-888411
YG GM12P-411T [24127]	01-888411X
YG GM12P-430 [24450]	01-888430
YG GM12P-456 [24451]	01-888456
YG GM12P-456T [24452]	01-888456X
YG GM12P-513 [24454]	01-888514
YG GM12P-538 [24455]	01-888538
YG F9-411 [24108]	07-890411
YG F9-430 [24377]	07-890430
YG F9-456 [24109]	07-890457
YG F9-471 [24383]	07-890471
YG F9-478 [24384]	07-890478
YG F9-486 [24110]	07-890486
YG F9-500 [24385]	07-890500
YG F9-513 [24111]	07-890514
YG F9-529 [24387]	07-890529
YG F9-543 [24388]	07-890543
YG F9-567 [24389]	07-890567
YG F9-583 [24391]	07-890583
YG F9-600 [24392]	07-890600
YG F9-614 [24393]	07-890614
YG F9-620 [24394]	07-890620
YG F9-633 [24395]	07-890633
YG F9-650 [24396]	07-890650
YG F9-PRO-429-0 [24425]	07-990429
YG F9-PRO-456-0 [24427]	07-990457

YG GM55P-411T [24469]	01-884411CX
YG GM12P-308 [24448]	01-888308
YG GM12P-331 [24571]	01-888355
YG GM12P-342 [24121]	01-888342
YG GM12P-355 [24122]	01-888355
YG GM12P-373 [24123]	01-888373
YG GM12P-373-4 [24124]	01-888373-4
YG GM12P-390 [24125]	01-888391
YG GM12P-411 [24126]	01-888411
YG GM12P-411T [24127]	01-888411X
YG GM12P-430 [24450]	01-888430
YG GM12P-456 [24451]	01-888456
YG GM12P-456T [24452]	01-888456X
YG GM12P-513 [24454]	01-888514
YG GM12P-538 [24455]	01-888538



Ratio Chart

Number of Pinion Gear Teeth

	5	6	7	8	9	10	11	12	13	14	15
21	4.20	3.50	3.00								
22	4.40	3.67	3.14								
23	4.60	3.83	3.29								
24	4.80	4.00	3.43	3.00							
25	5.00	4.17	3.57	3.13							
26	5.20	4.33	3.71	3.25							
27	5.40	4.50	3.86	3.38	3.00						
28	5.60	4.67	4.00	3.50	3.11	2.80					
29	5.80	4.83	4.14	3.63	3.22	2.90					
30	6.00	5.00	4.29	3.75	3.33	3.00					
31	6.20	5.17	4.43	3.88	3.44	3.10					
32	6.40	5.33	4.57	4.00	3.56	3.20	2.91				
33	6.60	5.50	4.71	4.13	3.67	3.30	3.00				
34	6.80	5.67	4.86	4.25	3.78	3.40	3.09				
35	7.00	5.83	5.00	4.38	3.89	3.50	3.18				
36	7.20	6.00	5.14	4.50	4.00	3.60	3.27	3.00			
37		6.17	5.29	4.63	4.11	3.70	3.36	3.08			
38		6.33	5.43	4.75	4.22	3.80	3.45	3.17			
39		6.50	5.57	4.88	4.33	3.90	3.55	3.25	3.00		
40		6.67	5.71	5.00	4.44	4.00	3.64	3.33	3.08		
41		6.83	5.86	5.13	4.56	4.10	3.73	3.42	3.15		
42		7.00	6.00	5.25	4.67	4.20	3.82	3.50	3.23	3.00	2.80
43		7.17	6.14	5.38	4.78	4.30	3.91	3.58	3.31	3.07	2.87
44			6.29	5.50	4.89	4.40	4.00	3.67	3.38	3.14	2.93
45			6.43	5.63	5.00	4.50	4.09	3.75	3.46	3.21	3.00
46				5.75	5.11	4.60	4.18	3.83	3.54	3.29	3.07

Number of Ring Gear Teeth



*Want the Best? Buy US Gear.
Our commitment to customer
service leads the industry.*

At US Gear we specialize in part manufacturing for many industries. Light duty truck, high performance for racing, heavy truck, military, and mining to name a few. Our general rule of thumb is if it has a tooth, chances are we can make it. Straight gears, helical gears, internal splines, external splines, broaching, hobbing, carburizing, and induction hardening are all well within our capabilities.

- Turning
- Milling
- Gear Cutting
 - Straight Bevel
 - Spiral Bevel
 - Hypoid
 - Cylindrical
- Spline Hobbing
- Spline Rolling
- Heat Treat
 - Carburize
 - Quench Press
 - Quench & Temper
 - Induction Hardening
- Grinding
 - OD
 - ID



CNC Turning



P65 Gear Analyzer



Phoenix Dry Cut



Quench Press