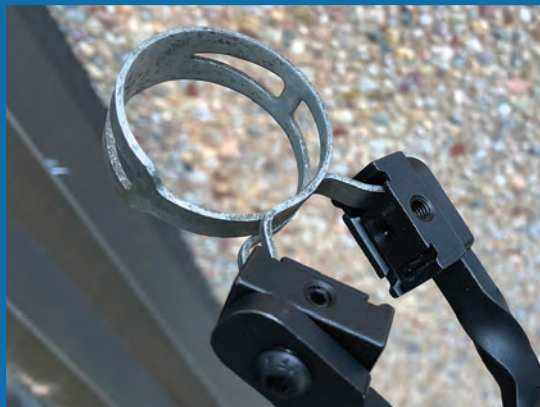
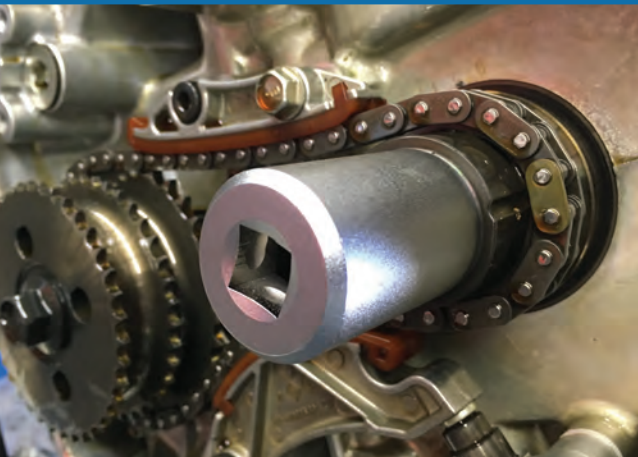




# ASSENMACHER<sup>®</sup> SPECIALTY TOOLS

CELEBRATING 40 YEARS | 1978-2018



PRODUCT CATALOG | 2019 - 2020

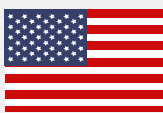




**ASSENMACHER<sup>®</sup>**  
**SPECIALTY TOOLS**

## About Our Company

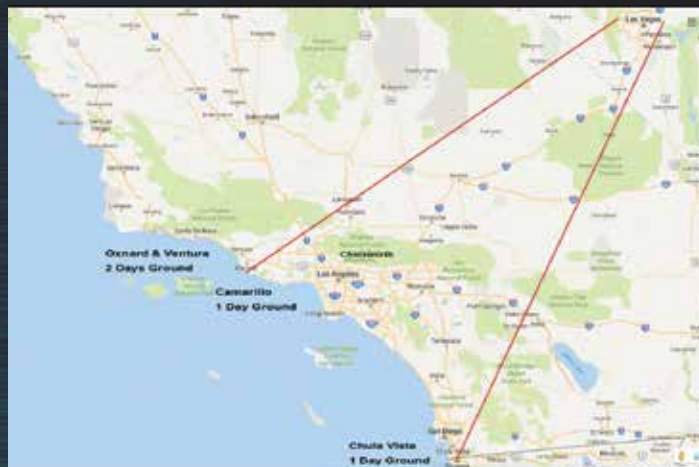
**We manufacture and distribute a full line of specialty tools**, cooling system adapters, oil change products, cam alignment tools and disconnect tools for Asian, Domestic and European vehicles. Located in Boulder, Colorado, AST was founded in 1978 by Gerhard Assenmacher and has remained at the forefront of independently owned tool companies since our beginning. Many decades of hands-on industry experience is what makes our team stand above the rest. We build relationships, we know our customers and we know our products. We take pride in the fact that our customers can simply pick up the phone and we are there to help—that's the personal service you'll find at AST.



**Many products from AST are Made in the U.S.A.** — including our Cooling System Adapters, Engine Oil Funnels and many Special application tools.

Those that work in U.S. manufacturing are consumers in our local states and cities. If these people continue to manufacture goods, they will continue to make local purchases and support their local economies. As long as businesses thrive, they will require goods and services that meet their daily needs. Independence as a society requires the skill, ability and knowledge to make things ourselves.





# Las Vegas Location!

Assenmacher Specialty Tools has a Southwest location in Las Vegas, Nevada!

**Our Las Vegas location gives us the ability to get shipments to more states on the west coast much faster.** States like California, Nevada, Utah and Arizona will see shipments arrive a day earlier than in the past. Most of Southern California will even get their shipments the next day.



**ASSENMACHER<sup>®</sup>**  
**SPECIALTY TOOLS**

TOOLS FOR  
**ASIAN MODELS** **7-20**

ACURA / HONDA	8-9
HYUNDAI / KIA	10
MAZDA	11-12
NISSAN / INFINITI	13-14
LEXUS / SCION / TOYOTA	15-17
SUBARU	18-20

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**DOMESTIC MODELS** **21-32**

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**Made in the USA**



**Made in Germany**

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Exact product specifications may vary depending upon date of purchase and / or date of manufacture. In order to provide a cost efficient tool with superior quality, AST manufactures many tools in the U.S., some overseas & some are imported from Germany.

Printed in the USA on paper made in the USA!

Acura, Audi, BMW, Cadillac, Chevrolet, Chrysler, Cummins, Detroit Diesel, Dodge, Ford, GMC, Honda, Hyundai, Infiniti, Jaguar, Jeep, Kia, Land Rover, Lexus, Mazda, Mercedes, Mini, Nissan, Porsche, Ram, Scion, Subaru, Tesla, Toyota, Volkswagen and Volvo are all registered trademarks.















## Warranty Information

AST tools are warranted against defects in WORKMANSHIP or MATERIALS for a period of five years, unless they are wear items. Warranty durations run from the date of documented purchase (the day of purchase by the end user). All returns must be accompanied by original sales receipt. Excluded are: Hazet and Stahlwille products, Hammer Nuts (TM #'s) and copper hammers.

Include name, address, telephone number and a short description of the problem. All items returned will be inspected and if found defective, will be either repaired or replaced at the option of the manufacturer. If an item has already been discontinued, it can only be replaced if stock exists.

AST tools are designed for HAND USE ONLY! AST impact sockets with black finish are the exception. The use of impact tools will automatically void warranty.

### ASTtool Products carry a 5-year warranty with the exceptions stipulated below:

Parts Kit for Stud Removers / Installers					
					
#60 6mm	#70 7mm	#80 8mm	#100 10mm	#120 12mm	#250 1/4"
					
#312 5/16"	#375 3/8"	#437 7/16"	#500 1/2"	#562 9/16"	#625 5/8"

**Stud Removers:** Stud removers are warranted for 10 years.

- **Internal parts: DO NOT** send in your stud remover that only needs the internal parts replaced. Simply call for assistance and we will send out a replacement parts kit [at no charge while under warranty]. The table above indicates replacement numbers for the internal parts.
- **External body:** The production year is stamped on the stud remover. Only if the external body is damaged, should the stud puller be sent in, if it is within the 10 year warranty.



**The AST Production Year is stamped on the stud remover. Stud removers are warranted for 10 years from this date.**

**Sockets** marked "For Hand Use Only", will not be warranted if damaged by use with a Power/Impact Tool.

**Hazet and Stahlwille** carry a one year warranty. Currently AST only carries 2-3 products from Hazet & Stahlwille.

**Sets and Kits:** If only one item is defective, that item will be replaced, not the entire set. If only a part on a tool is defective, (i.e. gasket, rubber band, etc.) only the part will be replaced. Cooling system adapters with plastic tester attachment piece may be repairable for a \$25.00 fee.

**Cooling System Adapters** with plastic tester attachment piece may be repairable for a nominal fee.

**Copper Hammer #T314 and Hammer Nuts (TM #'s):** there is no warranty on these items as they are intended to wear.

**Defective Products:** Send freight prepaid, by the customer, to AST for inspection. Warranty is handled by replacing the defective item, or the defective part on the item. AST will only cover UPS/Ground return shipping, to the customer, for warranty items.



## Are you tired of hearing this when you call other companies?

***“Our offices are located at...”***

*(Like you called to find out where they are!)*

***“Thank you for calling, if you know your party’s extension...”***

*(Yea, right, I have my party’s extension saved on a napkin from yesterday!)*

***“All of our agents are currently assisting other customers...”***

*(Does this mean I will wait 10 minutes, for a call center off shore to answer?)*

***“If you know the first or last name of the person you wish to speak to...”***

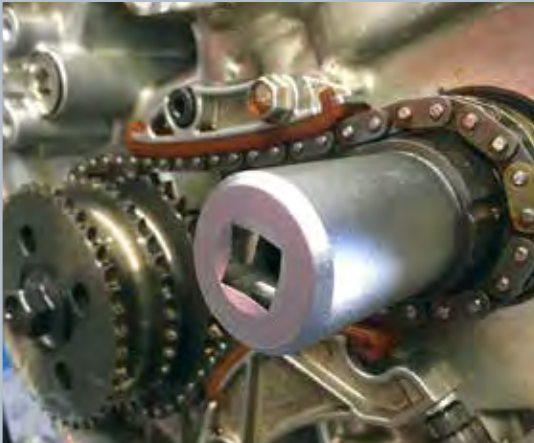
*(I see 150 customers on my tool route every week, and don’t have time for this!)*

## At AST there are real people answering our phones!

---

***People at a company can spend hours on bureaucracy, flow charts, excel sheets, engineering data, conformance, compliance, etc. At some point, you need to truly test the product on the job it was designed for and manufacture it correctly. Then it must be sold and serviced in a manner that is as simple as possible for the consumer.***





## TOOLS FOR **ASIAN MODELS**

**7-20**

ACURA / HONDA	8-9
HYUNDAI / KIA	10
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LEXUS / SCION / TOYOTA	15-17
SUBARU	18-20

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**#HON37517**  
**Serpentine Belt Wrench**



Serpentine belt wrench equipped with dual 17mm 12-point sockets. One side a shallow, secured 17mm, 12-point and the other a 3/8" drive with removable long 17mm, 12-point for engagement every 30 degrees. Applicable: Acura MDX [2014-2016], Honda Accord 4-cyl. [2014], CR-V [2015-2016], Crosstour [2014-2015], Odyssey [2016-2018] and Pilot [2016].

**#HON1419**  
**Serpentine Belt Wrench**



Serpentine belt wrench equipped with 14mm and 19mm, 12-point secured sockets, for engagement every 30 degrees. Ideal for strong tensioner's used on Honda Accord [2006], Civic [2006-newer], Odyssey and Pilot.

- For newer Honda models, see #HON37517.

**#FZ13818**  
**Tank Adapter**



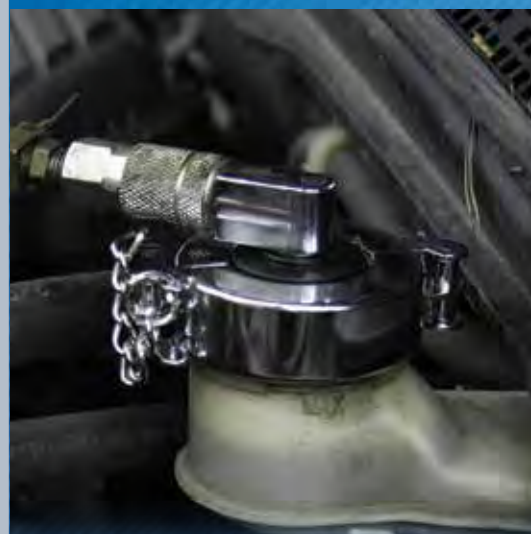
Used for pressurizing cooling system. For Honda models with small, shallow necks. Applicable to Acura MDX [2018]; Honda Accord [1994-2016], Civic [1994-2015], Clarity [2018], CR-V [2014-2016], Element [2008], Odyssey [1999-2018], Pilot [2003-2016] and S2000 [2008].



**#HONBC26**  
**Brake Fluid Adapter**



Used in conjunction with pressure bleeder. 1/4-18 NPT fitting is not included. Applicable: Honda Accord, Civic, Odyssey and Pilot.






### #OFHON1033 Engine Oil Funnel



Threads on and seals to the valve cover, just like the oil cap. Prevents unwanted messes. Applicable to Acura models [2000-2018]; Honda Accord, Civic, CR-V, Element, Fit, HR-V, Insight, Odyssey, Pilot and S2000 [1998-2018]. For V6 motors in Honda SUVs and Odyssey, use #OFH33 or #OFA33 with #OFHON1033.

- DO NOT USE BRAKE CLEAN

 California Residents: Proposition 65  
WARNING. See page 125 for info.



### #3035 3.5mm Socket

Used for R & R of the Proximity (Radar) Sensors and any place a 3.5mm socket is needed.

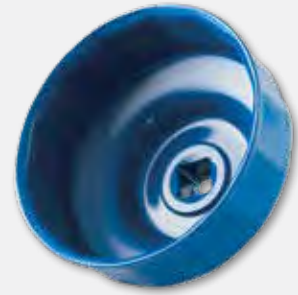
- 1/4" Drive
- 25mm Length



### #JAS6514 Oil Filter Wrench

Applicable to various Honda models [1987-2018] and Honda Powersports vehicles that utilize "HF303" oil filters.

- 65mm - 14 Flats
- 3/8" Drive



### #HO10PT 10-Point Socket

Applicable to Acura RSX and Honda Civic [2001-2006] rear lower control arms.

- 16mm
- 1/2" Drive
- 40mm Length




### #OFH33 Funnel Extension



Oil funnel extension for #OFHON1033 and OFHON33 oil funnels. Adds coverage and access where normal funnels do not fit. Applicable to ACURA MDX, ZDX; Honda Odyssey, Pilot, and Ridgeline.

- DO NOT USE BRAKE CLEAN

**NOTE:** USED IN CONJUNCTION WITH #OFHON1033 OR #OFHON33 FUNNEL.

 California Residents: Proposition 65  
WARNING. See page 125 for info.

### #TM12125 Ball Joint Hammer Nut

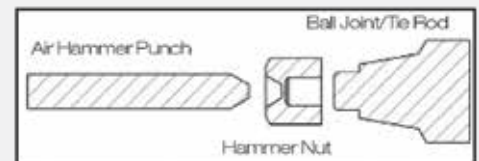
**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts.

- M12 x 1.25 Threads
- 22mm - 7/8" Hex



**NOTE:** FOR THE COMPLETE 4PC. SET, PURCHASE THE #TM20194 CONTAINING M12X1.25, M12X1.5, M14X1.5 AND M16X1.5.



## #OFGMRD08 Engine Oil Funnel



Attaches directly to the engine oil filler neck. Applicable to Hyundai Santa Fe 2.4L [2001–2006], Sonata [2002–2005], Tiburon [2006–2010] and Tucson [2004–2010].

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate
- No more messes

California Residents: Proposition 65  
WARNING: See page 125 for info.



## #OFHD35 Engine Oil Funnel



Oil funnel threads on and seals. Applicable to Kia Forte [2013–2018], Optima [2016–2018], Rio [2013–2018], Sedona [2015–2018], Sorento [2011–2016], Soul [2013–2018] and Sportage [2014–2018].

- DO NOT USE BRAKE CLEAN

California Residents: Proposition 65  
WARNING: See page 125 for info.



## #ATFSU100 Universal ATF Attachment



Used with our ATF driveline filler. This flexible adapter is used to fit into hard to reach applications where there is at least a 10mm internal diameter opening to fit into. Great for automatic transmission fill on Kia models with restricted access to transmission fill tube.

## #6300T-50 Torx Socket

**NEW!**

Used in conjunction with #ALT34018 on KIA Alternator Pulley Bolts.

- T-50
- 3/8" Drive
- 70mm Length



## #ALT34018 Alternator Pulley Socket

**NEW!**

Used for R and R of the free-wheel pulley on the alternator on Bosch Alternators. Used in conjunction with #6300T-50.



## #2127 Oil Filter Socket



Used on various Hyundai and Kia models. Applicable to Hyundai Azera [2009–2012], Equus [2011–2013], Genesis [2008–2013], Santa Fe 3.3L [2009], Sonata 3.3L [2009], Veracruz [2007–2013]; Kia Amanti [2007–2009], Borrego [2009–2012], Cadenza [2014–2018], Sedona [2016–2018] and Sorento [2007–2018].

- 27mm - 6 Flats
- 3/8" Drive

## #SU8015 Oil Filter Wrench

Applicable to Hyundai S Coupe [1992–1994], Accent [1995–2013], Elantra [1992–2013], Excel [1986–1994], Genesis Coupe 2.0L [2008–2012], Santa Fe [2000–2009], Sonata [1992–2012], Tiburon [2001–2008], Tucson [2004–2012], Veloster [2011–2013], XG300 [2000–2005], XG350 [2000–2005]; KIA Amanti [2004–2006], Forte [2010–2018], Niro [2017–2018], Optima [2001–2018], Rio [2006–2018], Rondo [2007–2009], Sorento [2003–2018], Soul [2010–2018], Spectra [2004–2009] and Sportage [2005–2018].

- 80mm - 15 Flats
- 3/8" Drive





### #FM2303 Crank Locking Pin



Applicable to Mazda Tribute [2001–2004]. Used in conjunction with #FM2330 Mazda timing set.

**COMPARABLE:** #303-574

### #FM2330 3-Piece Timing Set



Used on all Mazda 2.0L MZR, 2.3L (turbo and naturally aspirated) and 2.5L engines. \*[2004-older] 2.0L engines use the FM 2303 crank pin. Applicable to Mazda 3 [2004–2013], 5 [2006–2013], 6 [2003–2013], 7 [2007–2012], Mazdaspeed 3 [2007–2013], Mazdaspeed 6 [2006–2007], and MX-5 Miata [2006–2013].

**COMPARABLE:** #303-507, #303-465 AND #303-1061.

### #FZ13818 Radiator Adapter



For pressurizing cooling system. Applicable to Mazda 5 [2007], Protege (manual) [2000–2001], Protege 5 [2003].



### #FZ47 Tank Adapter



For pressurizing the cooling system. Applicable to Mazda 3 [2004–2013] and Mazda 6 [2004–2009].

- M49 x 2.5 threads



### #F1248 Camshaft Timing Set

Camshaft Holding Fixtures and Chain tensioner hold down tool for Mazda CX-9 [2007–2015].

**COMPARABLE:** #303-1248 AND #303-1530.





## #OFFM2012 Engine Oil Funnel



Used on newer Mazda 4 cylinder engines and attaches directly to engine oil filler neck or valve cover. Applicable to Mazda 3 [2006-2018], 5 [2005-2015], CX-5 [2013-2018], CX-9 [2016-2018], Mazdaspeed 3 [2007-2015], Mazdaspeed 6 [2005] and MX-5 Miata [2006-2018].

- DO NOT USE BRAKE CLEAN
- Made of durable ABS plastic
- May not fit some applications where the fire wall cowl doesn't provide clearance for attachment of funnel.

California Residents: Proposition 65  
WARNING. See page 125 for info.



## #OFGMRD08 Engine Oil Funnel



Attaches directly to the oil filler neck. Applicable to Mazda CX-9 [2007-2015].

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate

California Residents: Proposition 65  
WARNING. See page 125 for info.



## #OFHON1033 Engine Oil Funnel



Threads and seals just like the cap. Used on Mazda 2 [2011-2014].

- DO NOT USE BRAKE CLEAN

California Residents: Proposition 65  
WARNING. See page 125 for info.



## #V450 Brake Caliper Piston Adapter



Used for turning in the rear brake caliper piston on Mazda 3.

- 3/8" Drive



## #MO219 Oil Filter Wrench



Applicable to Mazda 3 [2004-2009], 5 [2006-2011], 6 [2003-2009] and CX-7 [2007-2009].

- 74mm - 14 Flats
- Uses 22mm Socket

California Residents: Proposition 65  
WARNING. See page 125 for info.



## #JAS6514 Oil Filter Wrench

Applicable to Mazda 3 [2012-2018], 6 [2014-2018], CX-3 [2016-2018], CX-5 [2013-2018] and MX-5 Miata [2016-2018].

- 65mm - 14 Flats
- 3/8" Drive





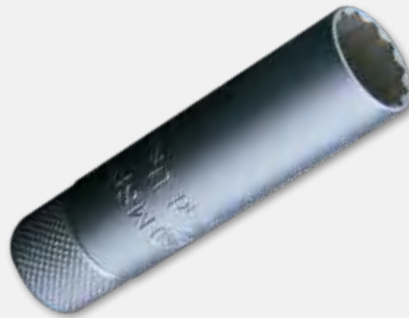
**#N512**  
**Flywheel Socket**



Flywheel bolt socket used on Nissan models.

- E12
- 1/2" Drive
- 37mm Length

**#MSP1412**  
**Magnetic Spark Plug Socket**



Used to remove spark plugs on Nissan 1.8L engines and Pathfinder [2015].

- 14mm - 12 Point
- 3/8" Drive
- Strong internal magnet holds spark plug firmly

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION



**#SP1412**  
**Spark Plug Socket**



Used to remove spark plugs on Nissan 1.8L engines and Pathfinder [2015].

- 14mm - 12 Point
- 3/8" Drive
- Rubber boot to hold spark plug

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



**#FZ32A**  
**Tank Adapter**



For pressurizing cooling system. Applicable to Nissan Armada [2005–2016] and Titan [2004–2016].

- M52 x 2.5 threads

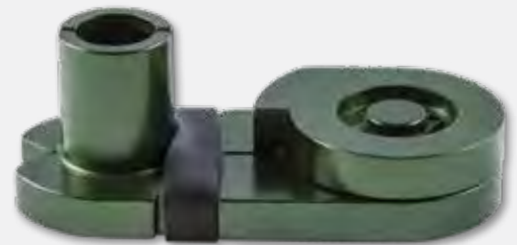
**#FZ36**  
**Cap Adapter**



For testing pressure relief valve in cooling system cap. Applicable to Nissan Armada [2005– 2015] and Titan [2004–2015].

- M52 x 2.5 threads

**#8026**  
**Fuel Line Disconnect Tool**



5/16" Fuel Line Disconnect tool for disconnecting the fuel line from the fuel rail on Nissan Altima [2004-2010], Frontier [2005], Murano [2014] and Sentra [2015].

**COMPARABLE:** #J45488



### #OFHON1033 Engine Oil Funnel



Fits various Nissan models. Threads and seals just like the cap. Applicable to Nissan Altima [2016-2018], Maxima [2008-2018], Pathfinder [2010-2018], Rouge [2012-2018] and Sentra [2013-2018].

- DO NOT USE BRAKE CLEAN

California Residents: Proposition 65 WARNING. See page 125 for info.



### #JAS6514 Oil Filter Wrench

Applicable to Infiniti most models [2004-2018]; Nissan 350Z [2002-2009], 370Z [2010-2018], Altima [1997-2018], Armada [2004-2018], Cube [2009-2014], Frontier [1997-2018], GT-R [2008-2018], Juke [2011-2016], Maxima [1994-2018], Murano [2002-2018], Pathfinder [1995-2018], Quest [2006-2016], Rogue [2008-2018], Sentra [2001-2018], Titan [2003-2018], Versa [2006-2018] and Xterra [2002-2015].

- 65mm - 14 Flats
- 3/8" Drive



### #ATFBASIC Basic Driveline Filler

Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump-saving both time and clean up afterwards. Used to fill Nissan Leaf gear reduction assembly.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- Quick Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



ATF CONTAINER IS MADE IN USA

### #ATF180 Transmission Filling Adapter



For use with our ATF Driveline Filler Sets. Applicable to Infiniti models with 7-speed automatic transmissions. Applicable to Infiniti EX35 [2008-2012], EX37 [2013-2013], FX35 [2010-2012], FX37 [2013-2013], FX50 [2013-2013], G25 [2011-2012], G37 [2010-2013], G37X [2010-2013], M35H [2012-2013], M37 [2011-2013], M37X [2011-2013], M56 [2011-2013], M56X [2011-2013], Q50 [2014-2014], Q60 [2014-2017], Q70 [2014-2017], Q70L [2015-2017], QX50 [2014-2017], QX56 [2011-2013], QX60 [2014-2014], QX70 [2014-2017], QX80 [2014-2017]; Nissan Armada [2017-2017], NV1500 [2017-2017], NV2500 HD [2017-2017], NV3500 HD [2017-2017] and Titan [2017-2017].

- M8 x 1.0 Threads

COMPARABLE: #310811EA5A



### #ATF125NIS Transmission Filling Adapter



Used with #ATFBASIC or any of our other ATF filling set to fill the new Nissan CV transmission. Applicable to Infiniti QX60 [2014-2017]; Nissan Altima [2014-2017], Murano [2015-2017], NV200 [2015-2017], Pathfinder [2013-2017], Quest [2015-2017], Rouge [2014-2017], Sentra [2013-2017] and Versa [2013-2017].

- M12 x 1.25 Threads

COMPARABLE: #KV31103950








### #TOY300 Toyota Oil Filter Wrench Set

Includes: #TOY640, #TOY730, and #M0219.  
With the #TOY300 you have every gas engine  
Toyota and Lexus model covered [1980–2019].

 California Residents: Proposition 65  
WARNING. See page 125 for info.


### #M0219 Oil Filter Wrench



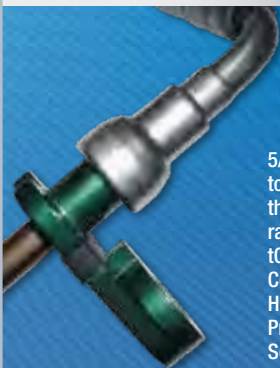
Applicable to Toyota 4Runner [1985–2002], Avalon [1995–2002], Camry V6 [1988–2004], Highlander V6 [2001–2010], Previa [1991–1997], Sienna [1998–2007], Solara V6 [1999–2009], Supra [1979–1998], T100 [1993–1998], Tacoma [1995–2012] and Tundra [2000–2004].



- 74mm - 14 Flats
- Used with 22mm socket

 California Residents: Proposition 65  
WARNING. See page 125 for info.

### #8026 Fuel Line Disconnect Tool



5/16" Fuel line disconnect tool. For disconnecting the fuel line from the fuel rail. Applicable to Scion tC, xA, xB; Toyota Camry, Celica, Corolla, Echo, Highlander, Matrix, MR2, Prius, RAV4, Sequoia, Solara, and Tundra.

COMPARABLE:  
#09268-21011



### #TOY647LG Oil Filter Wrench

**NEW!**

Applicable to Toyota V6 and V8 engines with canister style filter cartridge [2005–2019]. Does not fit on Sequoia.


- 64mm - 14 Flats
- 3/8" Drive



### #TOY730 Oil Filter Wrench

Applicable to Lexus ES 250 [1990–1991], ES 300 [1992–2003], ES 300h [2013], ES 330 [2004–2006], GS 300 [1993–2005], GS 400 [1998–2000], GS 430 [2001–2004], GX 470 [2004–2009], IS 300 [2001–2005], LS 400 [1990–2000], LS 430 [2001–2006], LX 450 [1996–1997], LX 470 [1998–2007], RX 300 [1999–2003], RX 330 [2004–2006], RX 400h [2006–2008], SC 300 [1992–2000], SC 400 [1992–2000], SC 430 [2002–2010]; Toyota 4Runner [2003–2009], FJ Cruiser [2007–2009], Land Cruiser [1993–2007], Sequoia [2001–2009], Tacoma [2005–2013] and Tundra [2000–2010].

- 73mm - 14 Flats
- 3/8" Drive - 24mm or 15/16" Socket

 California Residents: Proposition 65  
WARNING. See page 125 for info.




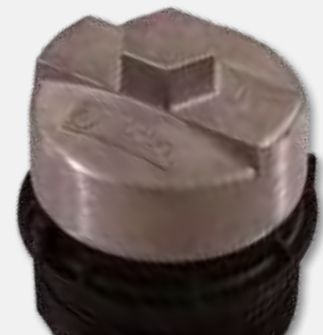
### #TOY640 Oil Filter Wrench



Applicable to all models with paper cartridge-style filter in Lexus CT 200h [2011–2016], ES 350 [2007–2018], GS 300 [2006–2018], GS 350 [2007–2018], GS 450h [2007–2018], GS 460 [2008–2011], GX 460 [2010–2018], HS 250h [2010–2013], IS 250 [2006–2010], IS 250 C [2010–2016], IS 350 [2006–2018], IS 350 C [2010–2016], IS F [2008–2014], LS 460 [2007–2016], LS 600h [2008–2016], LX 570 [2008–2018], RX 350 [2007–2018], RX 450h [2010–2018]; Scion tC [2005–2016], xA [2004–2006], xB [2004–2016], xD [2008–2013]; Toyota 4Runner [1985–2019], Avalon [1995–2019], Camry [1983–2019], Corolla [1983–2019], Echo [2000–2005], FJ Cruiser [2010–2014], Highlander [2001–2019], Prius [2001–2019], Matrix [2003–2014], MR2 [1985–2005], Paseo [1992–1997], RAV4 [1996–2019], Sequoia [2009–2016], Sienna [2007–2019], Solara [1999–2009], Tundra [2007–2019], Venza [2009–2016] and Yaris [2006–2019].

- 64mm - 14 Flats
- Used with 24mm or 15/16" Socket

 California Residents: Proposition 65  
WARNING. See page 125 for info.



### #TOY18B Brake Bleeder Adapter for Toyota



Fits quickly onto brake master cylinder reservoirs on most Toyota vehicles. Used in conjunction with pressure bleeder and 1/4-18 NPT fitting (NOT INCLUDED) to flush brake fluid on a wide range of vehicles. The tool's design reduces time and effort when flushing the brake system. Applicable to most Lexus, Scion and Toyota models.





### #TM1215

#### Ball Joint Hammer Nut

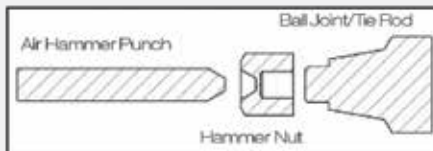
**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts. Can also be used to remove wheel studs.

- M12 x 1.5 Threads
- 22mm - 7/8" Hex



**NOTE:** FOR THE COMPLETE 4PC. SET, PURCHASE THE #TM20194 CONTAINING M12X1.25, M12X1.5, M14X1.5 AND M16X1.5.



### #TM1415

#### Ball Joint Hammer Nut

**NEW!**

Used for breaking free steering knuckle/ suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/ suspension joints threaded shafts.

- M14 x 1.5 Threads
- 22mm - 7/8" Hex



### #TOY1914

#### Serpentine Belt Wrench for Toyota



Equipped with 14mm and 19mm, 12 point secured attachments. Works on most Toyota applications (except Hybrids). Applicable to Scion FR-S [2014]; Toyota Corolla [1998-2005], Highlander [2008], Matrix [2004], RAV4 [2002], Sequoia [2008] and Tundra [2008].



### #OFTOY1038

#### Engine Oil Funnel



Applicable to All Toyota and Lexus models with a threaded oil cap. For Toyota and Lexus 1/4-turn style oil caps see #OFTOY1001.

- DO NOT USE BRAKE CLEAN

**NOTE:** FOR TOYOTA PRIUS AND YARIS, THE FUNNEL NEEDS TO BE USED IN CONJUNCTION WITH OUR #OFT38 OR #OFA38 EXTENSION.



**WARNING:** California Residents: Proposition 65. See page 125 for info.

### #OFT38

#### Funnel Extension for Toyota



Adds coverage and access where normal funnels do not fit. Applicable to Toyota Prius and Yaris. Only used in conjunction with #OFTOY1038 or #OFTOY38 funnels.

- DO NOT USE BRAKE CLEAN

**WARNING:** California Residents: Proposition 65. See page 125 for info.



### #TOY288

#### Front Hub Nut Socket



Used for R & R of the front hub lock nut on Toyota 2WD trucks [2007-Newer]. Applicable to Sequoia [2008-2014] and Tundra [2007-2014].

- 3/4" Drive

**COMPARABLE:** #09602-60010



### #TOY105

#### Head Bolt Socket



Used for newer Toyota Yaris, Prius that use a special #8 bi-hexagon socket. Applicable to Toyota Paseo, Prius [2001-2009], Tercel and Yaris [2006-2013].

- #8 BI-HEXAGON
- 1/2" Drive
- 100mm Length

### #CVB15 CV Clamp Crimping Tool

Used to crimp on clamps for CV boots on all Toyota with crimp style CV boots. Instead of squeezing pliers together, drive the #CVB15 with your 3/8" drive ratchet to crimp these clamps.



### #TOY211 A/C Clamp Remover



**NEW!**



Used for removing line clamps found on Toyota Tacoma [2015-2018]. Fits both high and low side clamps.

- Manufactured from 304 Stainless Steel
- 5" length
- Appropriate chamfer opens clamps



### #7200 Camshaft Pulley Holder

Fits Toyota models. Includes 3 sets of interchangeable pins. Pins may be threaded in two different locations, based on application access. Overall length 18". 12" spread between pins at tip of arms, when pivot arm is at 90 degrees. Holding pins are made in USA.



### #100-30A Axle Nut Socket

Thin-walled Applicable to Toyota models with 30mm 12-point axle nuts.

- 30mm
- 1/2" Drive
- 85mm Length



### #TOY200 A/C Clamp Remover



For removing special air condition line clamps. Fits both Toyota A/C clamps, used on high and low pressure lines [1998-newer].

- For Tacoma [2015-2018], see #TOY211.
- Stainless steel release pins.

COMPARABLE: #09870-00015  
AND #09870-00025



### #S3054X-10 Head Bolt Socket



Used for R & R of cylinder head bolts on Toyota Matrix [2003-2007].

- 10mm
- 1/2" Drive
- 140mm Length



### #FZ13818 Coolant Adapter



For pressurizing cooling system. Works with many different Toyota models with small, shallow necks, including Toyota Camry [1992-2019], Highlander [2019], Sienna [2010-2019], Tacoma [2006-2019] and Tundra [2000-2019].



### #FZ148 Tank Adapter



For pressurizing cooling system. Applicable to Lexus LS 460 [2007-2013]; Lotus Elise [2005]; Scion tC [2011-2013], xB [2011-2013]; Toyota Celica GTS-S, Highlander [2006-2010], MR2 Spyder, Prius [2001-2016] and RAV4 [2006-2018].

- M34 x 3 Threads



### #S3054X-12 Head Bolt Socket



Used for R & R of cylinder head bolts on Toyota 4Runner with V6 [2003], all 2ZZ engines 4 cylinder with VVT including Celica [2000-2001] and Highlander [2001-2006] with 2AZ-FE engines.

- 12mm
- 1/2" Drive
- 140mm Length



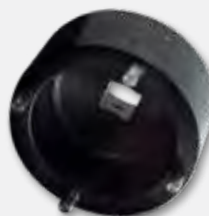
### #TOY185 Wheel Bearing Nut Socket



Used for R & R of wheel bearing nut located on inboard side of wheel hub on 2WD Toyota 4Runner [1995-2006], T100 [1995-1998] and Tacoma [1995-2006].

- 1/2" Drive

COMPARABLE: #09318-12010-SOCK

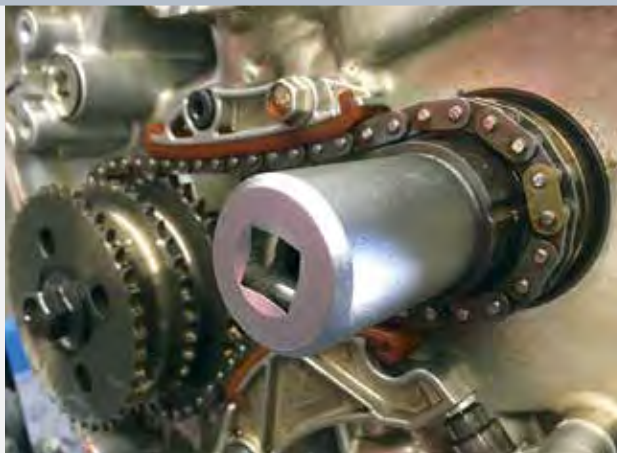






## #SU8252

## Crankshaft Socket

**NEW!**

Used to align crank to T.D.C. while working with the timing chain. Also works on older 3.0L 6 cylinder DOHC engines. Applicable to Subaru BRZ [2013-2017], Forester [2012-2017], Impreza [2012-2017], Impreza WRX [2015-2017], Legacy [2013-2015], Outback [2013-2015], Tribeca B9 and Crosstrek [2013-2017].

- 1/2" Drive

COMPARABLE: #18252AA000

## #SU7500

## Crankshaft Socket



Crankshaft Socket for Subaru used to align crank to T.D.C. while working with the timing belt on Subaru Baja [2003-2006], Forester [1998-2013], Impreza [1997-2011], Impreza WRX [2002-2014], Impreza WRX STI [2004-2014], Legacy [1996-2012] and Outback [1996-2012].

- 1/2" Drive

COMPARABLE: #499987500

## #SU3625

## Camshaft Sprocket Holder



Used to hold the camshaft sprockets on 2.5L turbo and 3.6L engines. Applicable to Subaru Baja [2004-2006], Forester [2004-2013], Impreza WRX [2006-2014], Impreza WRX STI [2004-2015], Legacy [2005-2015], Outback [2005-2015] and Tribeca [2006-2014].

**NOTE:** 2.5L DOHC TURBO ENGINES WILL ALSO REQUIRE THE USE OF THE #SU 200T IN CONJUNCTION WITH #SU 3625.

COMPARABLE: #499977500



## #SU200T

## Camshaft Pulley Holder

Used to hold the camshaft pulley for removal on 2.0L Turbo, 2.5L Turbo and 2.5L SOHC engines. Applicable to Subaru Baja [2004-2006], Forester [1999-2013], Impreza [1999-2011], Impreza WRX [2002-2014], Impreza WRX STI [2004-2015], Legacy [1999-2012] and Outback [2005-2012].

**NOTE:** 2.5L DOHC TURBO ENGINES WILL ALSO REQUIRE THE USE OF THE #SU 3625 IN CONJUNCTION WITH #SU 200T.



## #SU7250

## Cam Pulley Holder



Used to hold the crankshaft pulley on 2.5L engines. This tool works on models with crank pulley Subaru part #12305AA251 on Baja [2003-2006], Forester [1999-2013], Impreza [1999-2014], Impreza WRX [2002-2014], Legacy [1999-2012] and Outback [2002-2012].

- 1/2" Drive

COMPARABLE: #499977100. IF YOUR CAR IS EQUIPPED WITH PULLEY #12305AA242, PLEASE SEE #SU499977400.

**IMPORTANT NOTE:** IN SOME CASES, VARIOUS REPAIR MANUALS AND SERVICES CALL FOR THE #499977100, BUT IS NOT THE CORRECT TOOL NEEDED. VERIFY YOUR VIN# WITH A DEALERSHIP TO FIND OUT WHICH PULLEY YOU HAVE FOR SURE.

## #SU250

## Camshaft Gear Holder

Camshaft gear holding tool is only used for holding the pulley while breaking the camshaft gear nut loose Subaru 2.5L DOHC (non-turbo) engines [1996-1999]. Applicable to Subaru Forester [1998], Impreza RS [1998], Legacy [1997-1999] and Outback [1996-1997].

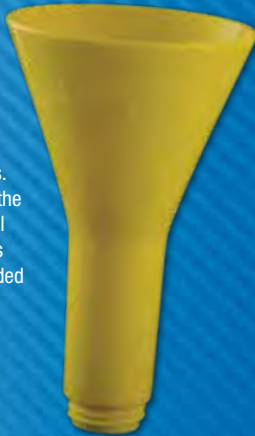
**NOTE:** THIS IS NOT USED FOR SETTING THE TIMING.

COMPARABLE: #499207300




RATCHET NOT INCLUDED

## #OFSU1042 Engine Oil Funnel



Prevents unwanted mess. Threads on and seals to the filler neck, just like the oil cap on all Subaru models through 2019 with threaded oil cap (except Tribeca). Also fits the Subaru BRZ [2013-2018] and Scion FR-S [2013-2016].

- DO NOT USE BRAKE CLEAN


 California Residents: Proposition 65 WARNING. See page 125 for info.

## #OFSU42 Funnel Adapter



For use only in conjunction with our #FUN14KIT or #OFKIT. Fits all Subaru models with threaded oil cap (except Tribeca). Also fits the Subaru BRZ and Scion FR-S.

- DO NOT USE BRAKE CLEAN
- We left space in the #FUN14KIT to accommodate this adapter.
- Purchase separately

 California Residents: Proposition 65 WARNING. See page 125 for info.



## #SU6514 Oil Filter Wrench

Used on Subaru factory oil filter #15208AA12A [2000-2018].

- 65mm - 14 Flats
- 3/8" Drive



## #GM245 GM Fuel Injector Seal Set



**NEW!**

Used for replacing the fuel injector seals on Subaru 2.0L Turbo and 2.4L Turbo engines [2014-2019].



## #SU8015 Oil Filter Wrench

Applicable to Subaru BRZ [2013-2017], Forester [2016+], Impreza WRX [2016+], Legacy (6-cyl.), Outback and Tribeca.

- 80mm - 15 Flats
- 3/8" Drive

FITS NAPA GOLD OIL FILTER #1334



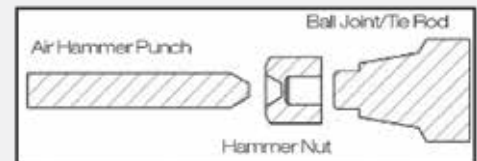
## #TM12125 Ball Joint Hammer Nut

**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts. Can also be used to remove wheel studs.

- M12 x 1.25 Threads
- 22mm - 7/8" Hex

**NOTE:** FOR THE COMPLETE 4PC. SET, PURCHASE THE #TM20194 CONTAINING M12X1.25, M12X1.5, M14X1.5 AND M16X1.5.



## #FZ13818 Tank Adapter



For pressurizing cooling system in Subaru vehicles with small, shallow necks. Applicable to Subaru Ascent [2019], BRZ [2013-2017], Forester [2016], Impreza [2006-2018], Legacy [2016], Outback [2005-2018], Tribeca B9 [2006] and Crosstrek [2013-2018].

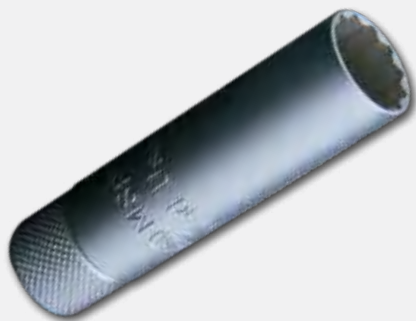






## #MSP1412

## Magnetic Spark Plug Socket



Applicable to Subaru BRZ [2013-2018] and Forester [2013-2018].

- 14mm - 12 Point
- 3/8" Drive
- Strong internal magnet holds sparkplug firmly

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



## #SP1412

## Spark Plug Socket



Applicable to Subaru BRZ [2013-2018] and Forester [2013-2018].

- 14mm - 12 Point
- 3/8" Drive
- Rubber boot to hold spark plug

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



## #ATFSU100

## Universal ATF Attachment



Used with our ATF driveline fillers. This flexible adapter is used to fit into hard to reach applications where there is at least a 10mm internal diameter opening to fit into. Applicable to newer Subaru automatic turbo models where the intercooler is blocking access to transmission fill tube.

**RECOMMENDATION:** USE WITH #ATFBASIC.



## #8028

## Fuel Line Disconnect Tool

Applicable to Subaru Forester [2004-2014], Impreza [2004-2011], Impreza WRX [2004-2014], Impreza WRX STI [2004-2014] (except 2006), Legacy [2004-2014], Outback [2004-2014] and Tribeca [2004-2014].

**COMPARABLE:**  
#18371AA000  
AND #42099AE00



## #SU070

## Drain Plug Socket



Used for R & R of the drain plug on Manual Transmission. Applicable to Subaru with manual transmission [2003- 2016].

- T-70
- 1/2" Drive
- 105mm Length

## #ATFSU118

## Filling Adapter

**NEW!**

Used for filling the front Differential. Applicable to Subaru Cross Trax [2012-2017], Forester (non turbo) [2014-2017], Impreza (non turbo) [2012-2017], Legacy (4 cyl.) [2013-2017] and Outback (4 cyl.) [2013-2017]. Used in conjunction with our ATF BASIC and our other ATF Filling Sets.

- M18 x 1.5 Threads





## TOOLS FOR **DOMESTIC MODELS 21-32**

CHRYSLER / DODGE / JEEP / RAM	22-24
FORD	25-30
GENERAL MOTORS	31-32
TESLA	107







## #8016 1/2" Oil Cooler Line Remover

For removing both oil cooler lines from fitting on automatic transmission and oil coolers.  
Applicable: Dodge Ram trucks with V10 or Cummins turbo diesel [1995–2016].



## #2124 Oil Filter Socket

Applicable to Chrysler 200 [2011–2016], 300 [2011–2013], Town & Country [2011–2016]; Dodge Avenger, Challenger, Charger, Durango, Grand Caravan and Journey [2011–2016].

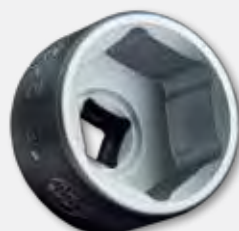
- 24mm - 6 Flats
- 3/8" Drive



## #2127 Oil Filter Socket

Applicable to Dodge Dart [2012–2013].

- 27mm - 6 Flats
- 3/8" Drive



## #2175 Oil Filter Socket



Applicable to Dodge Sprinter 2.7L [2003–2006].

- 74.5mm - 14 Flats
- Used with 22mm socket



California Residents: Proposition 65  
WARNING. See page 125 for info.

## #M0284 Oil Filter Wrench



Used on 3.0L CRD (Common Rail Diesel) V6 engines in Dodge Sprinter [2007–2013] and Jeep Grand Cherokee [2007–2008].

- 84mm - 14 Flats
- Used with 22mm socket



California Residents: Proposition 65  
WARNING. See page 125 for info.

## #M0219 Oil Filter Wrench



Used on Dodge Avenger [2012–2013], Caliber [2012–2013], Dart [2012–2013] & Sprinter (gas) [2003–2012].

- 74mm - 14 Flats
- Used with 22mm socket



California Residents: Proposition 65  
WARNING. See page 125 for info.

## #TOY640 Oil Filter Wrench



Used to remove and install the transmission cooling return line filter on 45RFE and 545RFE automatic transmissions found in Chrysler, Dodge and Jeep vehicles.

- 64mm - 14 Flats
- Used with 22mm socket

California Residents: Proposition 65  
WARNING. See page 125 for info.



## #OFCRY36 Engine Oil Funnel



Used for Chrysler and Dodge models equipped with the 3.6L engine. Applicable to Chrysler Town & Country; Dodge Avenger, Challenger, Charger, Dart, Durango, Grand Caravan, Journey and Jeep Wrangler [2011–2017].

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate
- Creates a custom fit to valve covers and filler necks

California Residents: Proposition 65  
WARNING. See page 125 for info.



## #FUNCRY36 Funnel Adapter



Oil funnel adapter for Chrysler/Dodge models equipped with the 3.6L engine. This is to be used with our #FUN14KIT. Applicable to Chrysler Town & Country; Dodge Avenger, Challenger, Charger, Dart, Durango, Grand Caravan, Journey and Jeep Wrangler [2011–2017].

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate
- Creates a custom fit to valve covers and filler necks


California Residents: Proposition 65  
WARNING. See page 125 for info.

**#OFHON1033**  
**Engine Oil Funnel**



Engine oil Funnel. Threads and seals just like the cap. Applicable: Dodge Caravan 3.8L, Challenger, Charger and RAM Trucks equipped with 5.7L Hemi engines [2010-2018] and Jeep Wrangler [2002-2011].

- DO NOT USE BRAKE CLEAN

 California Residents: Proposition 65  
WARNING. See page 125 for info.



**#FZ55**  
**Tank Adapter**



Cooling system pressure tester adapter. Applicable to Dodge / Freightliner / Mercedes Sprinter vans [2007-2019].

- M46 x 2.5 Threads



**#FZ25**  
**Tank Adapter**



For pressurizing cooling systems of Ram Trucks Promaster Van [2014-2018].

- M47 x 3 Threads

**#FZ35A**  
**Tank Adapter**



For pressurizing cooling system. Works with many different domestic vehicles. Applicable to Chrysler 200 [2015], Pacifica [2017]; Jeep Grand Cherokee [2016-2017] and RAM 3.6L, 3.0L EcoDiesel [2014-2018] and 6.7L Cummins [2013-2018].

- M52 x 2.5 Threads

**NOTE: DOES NOT FIT HEMI**



**#SPR0558**  
**Glow Plug Pliers**

For disconnecting the electrical connector that is attached to the glow plug used on Dodge Sprinters.

**COMPARABLE:** #9286



**#M1020**  
**Glow Plug Socket**

Applicable to Dodge Sprinter.

- 10mm
- 3/8" Drive



**#M820**  
**Glow Plug Socket**

Applicable to Dodge Sprinter.

- 8mm
- 3/8" Drive







## #7200 Camshaft Pulley Holder

Fits multiple Chevrolet, Dodge, Ford and GMC models. Includes 3 sets of interchangeable pins. Pins may be threaded in two different locations, based on application access. Overall length 18". 12" spread between pins at tip of arms, when pivot arm is at 90 degrees. Holding pins are made in USA.

FOR DODGE OR GM COVERAGE, YOU WILL ALSO NEED TO PURCHASE TWO #7200-4 PINS



## #7200-4 Pins



For use with #7200 camshaft pulley holder. Holds camshaft gears on Dodge Durango 4.7L [2000–2009].

- Must purchase '2' (two) to make a pair.

**NOTE:** AVAILABLE SEPARATELY,  
NOT INCLUDED IN #7200



## #SPR886 Transmission Dipstick

Used on Dodge / Freightliner Sprinter [2002–2009] and Chrysler Crossfire [2004–2008].

**COMPARABLE:** #8863B



## #CRY323 Transmission Dipstick



Stainless steel design and clear level marks with a knurled handle. Applicable to all 6F24 6-speed and 948TE 6-speed automatic transmissions found in Dodge Dart [2012–2016], Fiat 500 [2012–2017]; Jeep Cherokee [2014–2017], Compass [2014], Patriot [2014] and Renegade [2015–2017].

**COMPARABLE:** #10323A

## #CRY933 Transmission Dipstick



Used on all vehicles equipped with a NAG1, 42RLE, 62TE and CVT transmission. Applicable to Chrysler 200 [2011–2014], 300 [2006–2014], Aspen [2008–2009], Pacifica [2007–2008] Sebring [2007–2013], Town & Country [2008–2017]; Dodge Avenger [2007–2014], Caliber [2007–2012], Challenger [2008–2014], Charger [2006–2014], Dakota [2008–2011], Durango [2008–2013], Grand Caravan [2008–2017], Journey [2009–2014], Magnum [2006–2013], Nitro [2007–2011], Promaster [2014–2017], Ram [2007–2013], Jeep Commander [2006–2010], Grand Cherokee [2006–2013], Liberty [2006–2012], Patriot [2007–2013] and Volkswagen Routan [2009–2014].

**COMPARABLE:** #9336 AND #9336A



### #ATF101 ATF Adapter



Adapter used in conjunction with the ATF Filler System for Ford Explorer [2004–2010], Mustang [2005–2010] and Thunderbird [2002–2005].

- 1/8-27 NPT Threads
- Does not include pump, container, hose, or shut-off valve.
- **NOTE:** FOR THE COMPLETE FORD SET, SEE TOOL #ATF FORD

### #FZ32A Tank Adapter



For pressurizing cooling system. Applicable to Ford Edge 3.5L [2013], Escape [2010–2012], Excursion [2002–2004], Explorer [2014–2016], F150 [2004–2014], F250 [2002–2016], Five Hundred [2005], Fusion [2010–2012], Mustang [2011–2014] and Taurus [1996–2006].



- M52 x 2.5 Threads

### #FZ35A Tank Adapter



For pressurizing cooling system. Offers the same Ford coverage as the #FZ32A.



- M52 x 2.5 Threads

### #ATFFORD Driveline Filler

ATF CONTAINER IS  
MADE IN USA



Used for filling Ford Explorer [2004–2010], Mustang [2005–2010] and Thunderbird [2002–2005] automatic transmissions.

- 8 Liter capacity
- Hose length: 4' 10"
- #ATF101 adapter included.
- U.S. made container, made of UHDP (ultra high density polyethylene).

### #FZ36 Cap Adapter



Used to test coolant pressure cap. Works with many domestic vehicles.



- M52 x 2.5 Threads

### #FZ47 Tank Adapter



For pressurizing the cooling system. Applicable to Ford C-Max [2014–2016], EcoSport [2018], Edge [2013–2018], Escape [2014–2018], Expedition [2015–2018], F-150 [2015–2018], Fiesta [2011–2018], Focus [2012–2018], Fusion [2013–2018], Mustang [2016–2018], Transit 150/250 [2015–2016] and Transit Connect [2014–2015].

- M49 x 2.5 Threads





**#F1616T**  
**Engine Timing Set**



**NEW!**

Used to set timing on the 1.6L Naturally Aspirated and 1.5L/1.6L EcoBoost Turbocharged engines on Ford Escape [2013-2018], Fiesta [2011-2018], Fusion [2013-2018] and Transit Connect [2014-2017].

**COMPARABLE:** #303-748, #303-1097 AND #303-1550.



**#F1616-1552**  
**Camshaft Alignment Tool**

**NEW!**

Used to align the rear camshafts on 1.6L Ecoboost engines when the VCT (Variable Camshaft Timing) Phasers have been removed from the front of the camshafts on Ford Escape [2013-2015], Fiesta [2014-2016], Fusion [2013-2014] and Transit Connect [2014-2016].

**COMPARABLE:** #303-1552



**#F1616-376B**  
**Camshaft Alignment Tool**

**NEW!**

Used to align the rear camshafts on 1.6L (non-turbo) engines when the VCT (Variable Camshaft Timing) Phasers have been removed from the front of the camshafts. Applicable to Ford Fiesta [2013-2017].

**COMPARABLE:** #303-376B

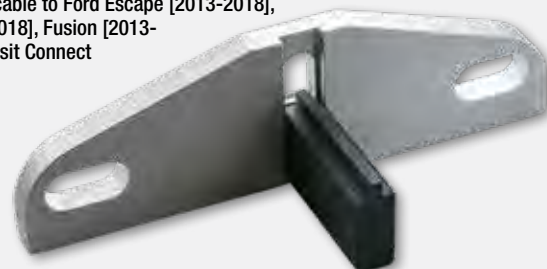


**#F16393**  
**Flywheel Lock**

**NEW!**

Used to hold the flywheel on 1.5L / 1.6L Ford engines. Applicable to Ford Escape [2013-2018], Fiesta [2011-2018], Fusion [2013-2018] and Transit Connect [2014-2017].

**COMPARABLE:**  
#303-393A  
PLATE AND  
#303-393-02



## #F20T Engine Timing Set

For Ford models with 2.0L turbo EcoBoost engine. Includes the T.D.C. crank timing pin, cam locking plate and the crank position sensor (CPS) alignment block. Applicable: Ford Edge [2013–2015], Escape [2013–2015], Explorer [2012–2015], Focus [2012–2015], Fusion [2013–2015] and Taurus [2013–2015].

**COMPARABLE:** #303-507, #303-1521, AND #303-1565



## #FM2330 3-Piece Timing Set

Used on all Ford 2.0L, 2.3L (turbo and naturally aspirated) and 2.5L engines. \*[2004-older] 2.0L engines use the FM 2303 crank pin. Applicable to Ford Escape [2005–2013], Focus [2005–2013], Fusion 2006–2013 and Ranger [2001–2011].

**COMPARABLE:** #303-507, #303-465 AND #303-1061.



## #FM2303 Crank Locking Pin



Used in conjunction with #FM2330 Ford and Mazda timing set. Applicable to Ford Contour [1998–2000], Escape [2001–2004], Escort ZX2 [1998–2003], Focus [2000–2004], Mercury Cougar [1999–2002] and Mystique [1998–2000].

**COMPARABLE:** #303-574

## #F1248 Camshaft Timing Set

Camshaft Holding Fixtures and Chain tensioner hold down tool for Ford/Lincoln models with 3.5L, 3.5L Eco-boost and 3.7L in Ford Edge [2007–2015], Explorer [2011–2015], F-150 [2011–2015], Flex [2009–2015], Fusion [2010–2012], Mustang [2011–2015], Police Interceptor [2014–2015], Taurus [2008–2015], Lincoln MKS [2009–2015], MKT [2010–2015], MKX [2007–2015], MKZ [2007–2015] and Navigator [2015].

**COMPARABLE:** #303-1248 AND #303-1530.





**#1018**  
**10pc. Line Disconnect Set**

**NEW!**

For R&R of transmission oil cooler lines, fuel filters and fuel lines. This new set includes GM Duramax injector line tool and Subaru fuel line disconnect tool.



**#8010**  
**1/4" Fuel Line Remover**



For the removal of 1/4" return lines on the fuel pump on Ford Mustang [1995–1996].

**#8021**  
**3/8" Oil Cooler Line Remover**

For disconnecting transmission oil cooler lines. Flares on the cooler lines near the fittings prevent access with original style tools. The locking clip used in the fitting is different than the standard 'tabs' used on most other applications. #8021 clears the flare and disconnects the new style clips with ease. Applicable: Ford Explorer [2003–2004], F-150 [2003–2008], Expedition [2005] and Cadillac CTS [2003–2004].



**#8012**  
**5/16" Fuel Filter Remover**



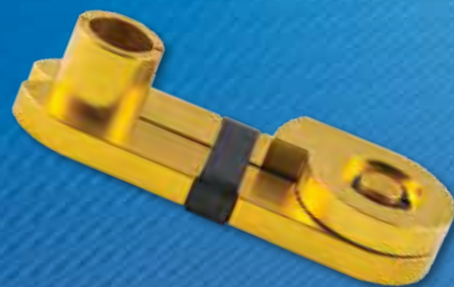
Made of red-anodized aluminum. For R & R of the fuel filter and 5/16" return line from the fuel pump-sending unit. Applicable: Ford Areostar [1990–2006], Bronco, Explorer, E-Series vans [1991–2006], F Series trucks and Ranger [1992–2006].

**#8024**  
**1/2" Oil Cooler Line Remover**

For R & R of transmission oil cooler lines on Ford Explorer [2007], Sport Trac, Ranger, various other Ford models.



**#8013**  
**3/8" Fuel Line Remover**



For removing 3/8" fuel lines and feed lines from the fuel pump-sending unit on Ford Areostar [1990–2006], Bronco, Explorer, E Series vans [1991–2006], F-Series trucks and Ranger [1992–2006].

**#8023**  
**1/2" Oil Cooler Line Remover**

Used to disconnect 1/2" transmission oil cooler lines on Ford Escape with 6F transmission [2009], Edge [2012], Excursion/ F -250/ F-350 with 6.0L turbo diesel [2005] and Explorer V8 [2008].



**#8014**  
**5/16" Special Line Remover**

For removing both oil cooler lines from the fittings on automatic transmissions on Ford Taurus/Excorts with the AXOD and ATX transmissions.



## #OFGMRD08 Engine Oil Funnel




Attaches directly to the oil filler neck on E-Series Van, Edge, Escape [2011], Expedition, Explorer, F-150 [2013-2016], F-250 6.7L Powerstroke [2016-2018], Flex, Mustang [2005-2016], Ranger, Taurus [2011] and Transit [2016].

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate

**NOTE:** FOR FORD POWER STROKE DIESEL ENGINES (6.9L, 7.3L, 6.0L AND 6.4L), SEE #OFHON1033



 California Residents: Proposition 65 WARNING. See page 125 for info.


## #OFFM2012 Engine Oil Funnel



Used on newer Ford 4 cylinder engines and Attaches directly to engine oil filler neck or valve cover.

Applicable to Ford EcoSport [2018], Edge [2012-2018], Escape [2008-2016], Expedition [2016-2018], Explorer [2012-2016], F-150 [2016-2018], Focus [2007-2018], Fusion [2013-2018] and Mustang [2018].

- DO NOT USE BRAKE CLEAN
- Made of durable ABS plastic
- May not fit some applications where the fire wall cowl doesn't provide clearance for attachment of funnel.

 California Residents: Proposition 65 WARNING. See page 125 for info.



## #OFHON1033 Engine Oil Funnel



Threads and seals just like the cap. Used on Ford F-150, F-250 and F-350 6.0L (turbo diesel), also fits Ford power stroke engines (6.9L, 7.3L, 6.0L and 6.4L).

- DO NOT USE BRAKE CLEAN

 California Residents: Proposition 65 WARNING. See page 125 for info.




## #OFAAGM Angled Funnel Extension



Oil Funnel Extension for our #OFGMRD08 Oil Funnel. Adds coverage and access where normal funnels do not fit. Applicable to Ford F-150 and F-250 [2015-2016].

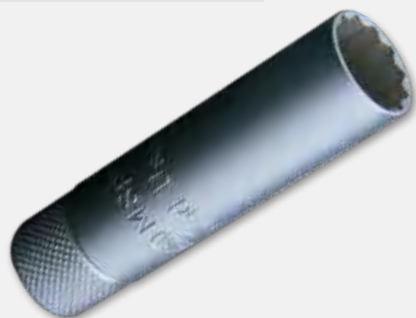
- DO NOT USE BRAKE CLEAN
- Made of durable ABS plastic

 California Residents: Proposition 65 WARNING. See page 125 for info.





**#MSP1412**  
**Magnetic Spark Plug Socket**



Used to remove spark plugs on Ford 4.6L and 5.4L engines.

- 14mm - 12 Point
- 3/8" Drive
- Strong internal magnet holds spark plug firmly.

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



**#SP1412**  
**Spark Plug Socket**



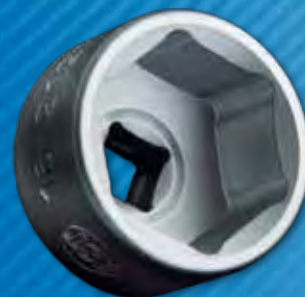
Used to remove spark plugs on Ford 4.6L and 5.4L engines.

- 14mm - 12 Point
- 3/8" Drive
- Rubber boot to hold spark plug

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



**#2127**  
**Oil Filter Socket**



Applicable to Ford F-150 2.7L Ecoboost [2015-2016].

- 27mm - 6 Flats
- 3/8" Drive

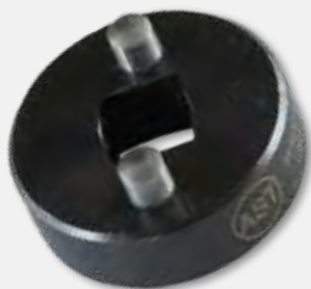
**#2136**  
**Oil Filter Socket**



Applicable to Ford F-250 and F-350 6.0L turbo diesel [2004].

- 36mm - 6 Flats
- 3/8" Drive

**#V450**  
**Brake Caliper Piston Adapter**



Used for turning in the rear brake caliper piston on Ford Fusion and Lincoln MKZ.

- 3/8" Drive

**#BFLT60**  
**Wheel Bearing Torx Socket**



This special machined, long T60 Torx socket is machined for clearance to access the rear wheel bearing bolts without hitting the ABS rotor sensor on Ford Edge / Lincoln MKX [2007-2013].

- 1/2" Drive
- 140mm Length

**#MO219**  
**Oil Filter Wrench**



Applicable to Ford Escape [2006-2008], Focus [2004-2007] and Fusion [2006-2008].

- 74mm - 14 Flats
- Used with 22mm socket


**#OFAAGM**  
**Angled Funnel**  
**Extension**



Oil Funnel Extension for our #OFGMRD08 Oil Funnel. Adds coverage and access where normal funnels do not fit. Fits Chevy Silverado (gas) and GMC Sierra (Gas) [2013–2014].

- DO NOT USE BRAKE CLEAN
- Made of durable ABS plastic

**NOTE:** ONLY USED IN CONJUNCTION WITH #OFGMRD08 OR #OFGMFORD FUNNEL.

 California Residents: Proposition 65  
WARNING. See page 125 for info.

**#GM245**  
**GM Fuel Injector**  
**Seal Set**



**NEW!**



Used for replacing the fuel injector Teflon seals on 2.0L & 3.6L engines with Hitachi fuel injectors [2010–2017] and 2.0L, 2.5L, 5.3L & 6.2L engines with Bosch, Continental and Delphi fuel injectors [2012–2017].

**COMPARABLE:** #EN-49245 AND #EN-51105



**#2124**  
**Oil Filter**  
**Socket**

Applicable to Chevrolet Trax [2015].

- 24mm - 6 Flats
- 3/8" Drive



**#GM140**  
**Engine Timing Set**

**NEW!**

Used to set the Timing on GM 1.4L Ecotec in Buick Encore [2013–2018]; Chevy Cruze [2011–2018], Sonic [2011–2018] and Trax [2013–2018].

- Comes in plastic storage case




**#OFGMRD08**  
**Engine Oil Funnel**



Attaches directly to the oil filler neck. Applicable to Cadillac, Chevrolet and GMC vehicles.

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate

 California Residents: Proposition 65  
WARNING. See page 125 for info.







## #8021 3/8" Oil Cooler Line Remover



For disconnecting transmission oil cooler lines. Flares on the cooler lines near the fittings prevent access with original style tools. The locking clip used in the fitting is different than the standard 'tabs' used on most other applications. #8021 clears the flare and disconnects the new style clips with ease. Applicable to Cadillac CTS [2003–2004] and Chevrolet Corvette [1997–2004].



## #8022 Fuel Filter Removal Tool for GM

For the R & R of the fuel filter on Chevy Suburban and Tahoes [2002–2004].



## #8027 3/16" Fuel Line Release Tool

Used for R & R of fuel lines. Made of orange anodized aluminum. Applicable to Express Van, Sierra and Silverado with 6.6L V8 Duramax engine [2011–2016].



## #7200-4 Pins



Must purchase '2' (two) to make a pair. For use with #7200 camshaft pulley holder. Used to hold GM water pump pulley on 4.2L straight-6 Vortec engine.

**NOTE:** AVAILABLE SEPARATELY, NOT INCLUDED IN #7200

## #ATF175GM Transmission Filling Adapter



Used on GM vehicles equipped with 6L80/6L90 6-speed automatic transmission. Used in conjunction with our ATF Driveline Filler Sets. Applicable to Cadillac CTS-V [2009], Escalade [2009], STS, XLR-V [2006]; Chevrolet Camaro [2010], Caprice [2011], Corvette [2006], Silverado 1500 [2009]; GMC Yukon Denali [2007]; Pontiac G8 [2008].

- M12 x 1.75 Threads

**NOTE:** FOR USE WITH #ATF BASIC

## #FZ13818 Radiator Adapter



For pressurizing cooling system. Application to vehicles with small, shallow necks. Used on Chevrolet Metro, Prizm and Tracker [1998].

## #FZ36 Cap Adapter



Used to test coolant pressure cap. Applicable to GM models with threaded coolant caps [1999–2018].

- M52 x 2.5 right hand threads

## #FZ35A Tank Adapter



For pressurizing cooling system. Applicable to GM models [1999–2018]. (Except Duramax [2017–2018], hybrid and electric vehicles require a different tank adapter.)

- M52 x 2.5 right hand threads





## TOOLS FOR **EUROPEAN MODELS 33-72**

BMW / MINI	34-46
JAGUAR / LAND ROVER	47-49
MERCEDES	50-54
VOLVO	55-56
VW / AUDI / PORSCHE	57-72







**#BMW0062**  
**A/C Stretch Belt Tool**



Used for installing the stretch belt (no belt tensioner is used) on N62 engines [2004-2010].

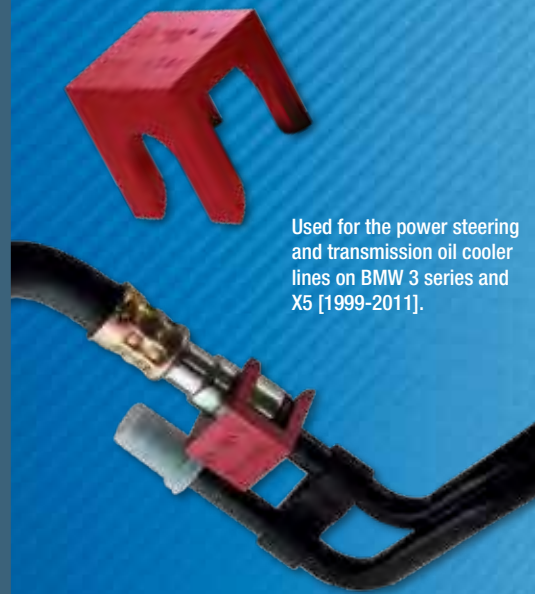
COMPARABLE: #641040 & #83800494518



**#BMW5346**  
**Line Disconnect Tool**



Used for the power steering and transmission oil cooler lines on BMW 3 series and X5 [1999-2011].



**#BMW124052**  
**A/C Stretch Belt Tool**



Used for installing the stretch belt (no belt tensioner is used) on BMW X5 3.0L gas engines [2007-2010].

- 1/2" Drive

COMPARABLE: #111240

**#BMW124057**  
**A/C Stretch Belt Tool**



Used for installing the stretch belt on M57Y diesel engines in 335d & X5 35d [2009-2013].

- 1/2" Drive

COMPARABLE: #110330

**#FZ25**  
**Tank Adapter**



Applicable to BMW 330e, 530e, 740e & X5 40e [2016-2019], i3 & i8 [2014-2019], BMW V8 (twin turbo) intercooler coolant reservoir [2008-2017] & Mini Cooper Models.

- M47 x 3 threads



**#BMW345**  
**Tank Adapter**



Used to pressurize most BMW coolant reservoirs [1996-2006]. For 5 & 6 series cars [2004-2005], see #BMW350.

- M51 x 4 threads



**#BMW350**  
**Tank Adapter**



Used to pressurize BMW coolant reservoirs [2006-2019]. See application chart for model years.

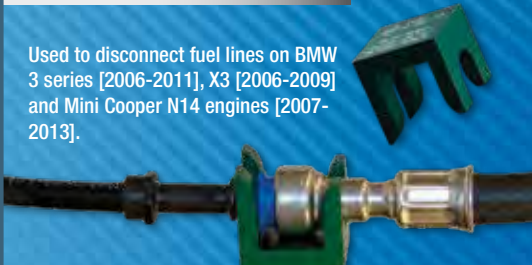
- M52 x 3 threads



### #BMW8390 Line Disconnect Tool



Used to disconnect fuel lines on BMW 3 series [2006-2011], X3 [2006-2009] and Mini Cooper N14 engines [2007-2013].



### #BMW5532 Fuel Injector Tool

Used to remove and install injectors on N20 and N55 engines.

COMPARABLE: #130320



### #8032 Fan Clutch Wrench

Used for R & R of any 32mm fan clutch nuts.



### #BMW4622 Fuel Level Sensor Lock Ring Tool



FUEL LEVEL  
LOCK RING



Used to remove the fuel level lock ring on BMW/Mini E31, E34, E36, E38, E39, E46, E53, E60, E63, E64, E65, E83, E85, E90, R50, R52, R53, R55, R56 and R57 chassis.

- 1/2" Drive

### #BMW7080SAC Self-Adjusting Clutch Tool

Locating ring and clutch tensioner set used on BMW manual transmissions with Self-Adjusting clutch.

COMPARABLE: #212170 & #212180



### #BMW6119F Fuel Tank Lid Wrench

**NEW!**

Used to remove and install the metal fuel tank lid on BMW F01, F02, F25 & F30 Chassis.

- 1/2" Drive

COMPARABLE: #161190





### #BMW6208 Engine Timing Set



Used to set timing on BMW N62, N62TU & N73 engines in BMW 545 [2004-2005], 550 [2006-2007], 550i [2008-2010], 645Ci [2004-2005], 650i [2006-2010], 745i [2003-2005], 745Li [2003-2005], 750i [2006-2008], 750Li [2006-2008], 760i [2005-2006], 760Li [2003-2008], Alpina B7 [2007-2008], X5 [2004-2010].

**COMPARABLE:** #119190, #119340, #119461, #119462 AND #119463.



### #BMW9054 Fuel Injector Seal Set



Set used to install new seals onto the injectors on BMW/Mini N14, N18, N54, N63 & N74 engines. Applicable to BMW 135is [2008-2010], 335i [2007-2010], 335xi [2007-2010], 535i [2008-2010], 535xi [2008-2010], 550i GT [2010-2013], 750i [2009-2013], 750Li [2009-2013], 760Li [2010-2014], X3 [2007-2010], X5 [2008-2013], X6 [2008-2013] and Mini Cooper [2007-2012].

**COMPARABLE:** #130192, #130193, #130194 AND #130195.

### #BMWMC280 Crankshaft Holder

Used for crankshaft when releasing or tightening the central bolt on BMW N51/N52, Mini N12, N14, N16 and N18 engines.

**COMPARABLE:** #119280 & #83300493940



### #BMW11850 Head Bolt Socket

Used on 3 of the head bolts on BMW N52, N54 and N55 engines. For all of the remaining head bolts on these engines use our #BMW11860.

- T-50
- 1/2" Drive
- 165mm Length

**COMPARABLE:** #114420



### #BMW11860 Head Bolt Socket

Used on BMW N51, N52, N54 & N55 engines. Used in conjunction with #BMW11850.

- T-60
- 1/2" Drive
- 195mm Length

**COMPARABLE:** #118580




### #BMW5585 Camshaft Bridge



Used in conjunction with #BMW3028 timing set on N55 engines. Applicable to BMW 335Ci [2011-2012], 335i [2011-2013], 335xi [2011-2012], 435i [2014-2016], 535i [2011-2017], 640i [2012-2018], 650i [2012-2013], 740i [2014-2015], 740Li [2014-2015], M235i [2014-2016], X1 xDrive 35i [2013-2013], X3 xDrive 35i [2011-2017], X4 xDrive M40i [2016-2018], X5 xDrive 35i [2011-2018] and X6 xDrive 35i [2011-2018].

COMPARABLE: #114285

 California Residents: Proposition 65  
WARNING: See page 125 for info.

### #BMW3028 Engine Timing Set

Engine alignment tools for newer BMW N51, N52 and N54 engine [2006-2012]. For N55 engines [2011-2018], use of #BMW5585 is required. Applicable to BMW 128i [2008-2012], 135i [2008-2012], 325i [2006], 328Ci [2007-2012], 328i [2007-2012], 328xi [2007-2012], 330i [2006], 330xi [2006], 335Ci [2007-2012], 335i [2007-2012], 335is [2011-2012], 335xi [2007-2012], 525i [2006-2007], 525xi [2006-2007], 528xi [2008-2010], 530i [2006-2007], 530xi [2006-2007], 535i [2008-2012], 535xi [2008-2010], X3 [2007-2012], X5 [2007-2012], X6 [2008-2012] and Z4 [2006-2012].

COMPARABLE: #110300, #114280, #114290 AND #118520.




### #BMW2755 Intermediate Spring Tool

Used for removing and installing the pressure spring for the intermediate levers on BMW N20/N26/N52/N55 engines in BMW 135i [2011-2013], 135is [2013], 325i [2006], 325xi [2006], 330i [2006], 330xi [2006], 335Ci [2011-2012], 335i [2011-2014], 335xi [2011-2012], 525i [2006-2007], 525xi [2006-2007], 530i [2006-2007], 530xi [2006-2007], 535i [2011-2014], 640i [2012-2014], X1 35i [2013-2014], X3 35i [2011-2014], X5 35i [2011-2014], X5 35i [2011-2014], Z4 [2006-2008], 228i [2014-2016], 320i [2013-2018], 328i [2013-2016], 428i [2015-2016], 528i [2013-2016], X1 xDrive 28i [2013-2015], X3 xDrive 28i [2013-2015] and Z4 sDrive 28i [2012-2016].

COMPARABLE: #117110



 California Residents: Proposition 65  
WARNING: See page 125 for info.



### #BMW2026 Engine Timing Set

Used for setting the timing on N20 & N26 2.0L turbo engines in BMW 228i [2014-2016], 320i [2013-2018], 328i [2013-2016], 428i [2015-2016], 528i [2013-2016], X1 xDrive 28i [2013-2015], X3 xDrive 28i [2013-2015] and Z4 sDrive 28i [2012-2016].

**COMPARABLE:** #2219548, #2212831, #2212830 AND #110300.



### #BMW5254 Front Crank Seal Tool Set

SEAL  
REMOVER  
MADE IN  
THE USA



Used to loosen the seal for removal & installation of new front crank seals on BMW N52 & N54 engines [2006-2013]. When used in conjunction with #BMW9235 (Sold Separately), this set will also work for N55 engines [2011-2018].

**COMPARABLE:** #110370, #119220 AND #119230.

### #BMW9235 Front Crankshaft Seal Adapter



Used to guide front crankshaft seal on N55 engines. Used in conjunction with #BMW5254.

**COMPARABLE:** #119235

**NOTE:** ONLY TWO BOLTS ARE USED

### #BMW400-1 T.D.C. Locking Pin



Used for setting crankshaft T.D.C. in M21, M40, M41, M42, M43, M43TU, M44, M47, M47TU, M50, M51, M52, M52TU, M54, M56, M57, M57TU, M60, M62, M62TU, M70, M73, S50B30, S50B32, S54 & S62 engines.

**COMPARABLE:** #112300

### #BMW6222 Chain Tensioner Tool



Used for tensioning the timing chain when adjusting the engine timing. Applicable to BMW/Mini N12, N14, N16, N18, N40, N42, N45, N46, N52, N54 and N62 engines.

**COMPARABLE:** #119340

### #BMW400 Camshaft Alignment Set



Used for setting camshaft timing on M42, M44, M50, M52, M52TU, M54, M56, S50US & S52US engines [1991-2005].

**COMPARABLE:** #113240 AND #112300.



### #BMW575190 Diesel HP Injection Pump Tool

**NEW!**



Used for removing camshaft sprocket from pump shaft when dismantling the injection pump VP44 and high-pressure pump common rail on BMW M57 engines [2009-2013].

**COMPARABLE:** #135190

### #TA18 Brake Fluid Tank Adapter



Used for brake master cylinder or clutch master cylinder reservoirs. Used in conjunction with pressure bleeder.

- M46 x 3.5 Threads
- 1/4-18 NPT
- Air fitting not included

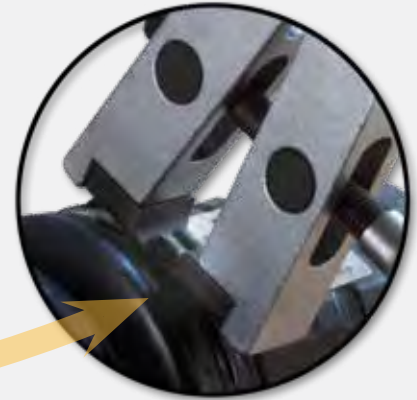


### #CVB15 CV Clamp Crimping Tool



DRIVE WITH A  
3/8" RATCHET  
(NOT INCLUDED)

Used to crimp on clamps for CV boots on all BMW models with crimp style CV boots. Instead of squeezing together, drive the #CVB15 with your 3/8" drive ratchet to crimp these clamps.



### #VW93005 Wire Terminal Extractor

Used to remove flat terminals with two tangs from the electrical connector plug (1mm Wide, 2.5mm Apart & 16mm Length).



### #BMW2510 Brake Caliper Piston Tool

Used to reset the rear EMF adjustment unit and piston to the starting position. Must be used with standard 3/8" extension and ratchet. Applicable to BMW 528i [2011-2016], 535i [2011-2016], 550i [2011-2017], 640i [2012-2017], 650i [2012-2017], X3 [2011-2017] and Z4 [2010-2016].

- 3/8" Drive

COMPARABLE: #83302320299







### #OFAUD1000

#### Euro 1/4 Turn Oil Funnel



Attaches directly to the valve cover, so when you're adding oil to the engine you don't have to worry about making a big mess due to the internal baffle of the valve cover of BMW engines [1993-2018].

- On some BMWs air intake may need to be removed.

### #M0219

#### Oil Filter Wrench



Used on BMW motorcycles F650, F800, K100, K1100, K1200GT [2003-2004], K1200LT, K1200R, K1200RS [1996-2004], K1200S, K1300, K75, R1100, R1150, R1200C, R1200CL, R1200GSW [2013-2014], R850 and S1000RR.

- 74mm - 14 Flats
- Used with 22mm socket

California Residents: Proposition 65 WARNING. See page 125 for info.



### #FUN14EURO

#### FUN14KIT Euro Adapter



Used in conjunction with #FUN14KIT. Attaches directly to the valve cover and so when you're adding oil to the engine you don't have to worry about making a big mess due to the internal baffle of the valve cover of BMW engines [1993-2018].



### #BM1276

#### Oil Filter Wrench

Used on oil filters for BMW i3 "Range Extender" engine [2014-2018] and motorcycles F650F, F800GS, HP2, K 1600 GTL/GT [2007-2016]; K1200GT; K1200R/SPORT, K1200S, R 1200 ST, R1200GS, R1200R, R1200RT, R1200S, S 1000 RR [2006-2008] with oil filter #11 42 7 673 541.

- 76mm - 12 Flutes
- 3/8" Drive



### #H2760

#### Oil Drain Plug Wrench



Used for the R and R of the differential oil filler plug on many BMW models.



### #V410

#### Oil Filter Wrench



Applicable to BMW models with N52, N54, N55 and N63 engines [2006-2017].

- 86.5mm - 16 Flats
- Used with 22mm socket

COMPARABLE: #119240

California Residents: Proposition 65 WARNING. See page 125 for info.



### #ATF102 Universal ATF Adapter



Adapter used in conjunction with our ATF Filler System and is used on various BMW models.

### #23236 32/36mm Oil Filter Socket



Applicable to BMW 335d, X5 35d [2009–2011] and BMW 6 and 8 cylinder engines [1994–2005].

- Built Stocky for Better Access to Oil Filter Caps
- Stout Steel Construction
- 32mm x 36mm
- 3/8" Drive




### #2175 Oil Filter Wrench



Applicable to BMW M44 engines.

- 74.5mm - 14 Flats
- Used with 22mm hex



 California Residents: Proposition 65 WARNING. See page 125 for info.

### #2132 Oil Filter Socket

Applicable to BMW 335d, X5 35d [2009–2011] & X5 xDrive 35d [2011–2013]. Also fits 230i 330i, 340i, 530i, 740i, M240i & X1 [2017 & Newer].

- 32mm - 6 Flats
- 3/8" Drive



### #ATFBASIC Basic Driveline Filler




ATF CONTAINER  
MADE IN USA

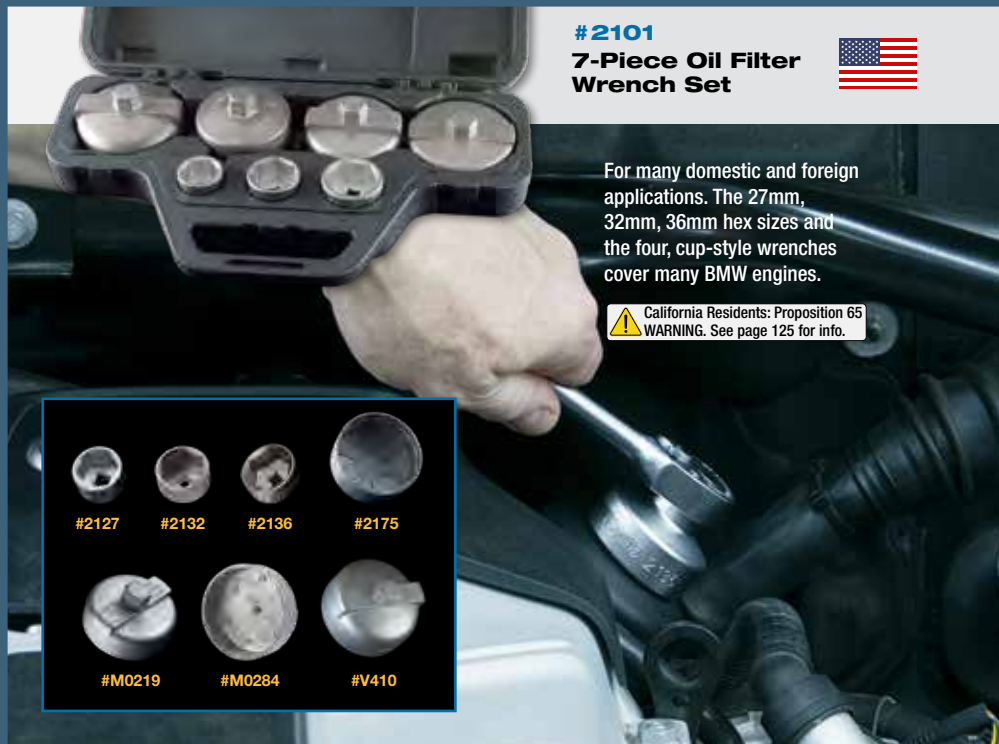
Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. Container made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards.

### #2101 7-Piece Oil Filter Wrench Set



For many domestic and foreign applications. The 27mm, 32mm, 36mm hex sizes and the four, cup-style wrenches cover many BMW engines.

 California Residents: Proposition 65 WARNING. See page 125 for info.



### #2124 Oil Filter Socket

Used for R & R of the oil filter housing cap of N62/ N62TU engines [2002–2010].

- 24mm - 6 Flats
- 3/8" Drive



### #2136 Oil Filter Socket

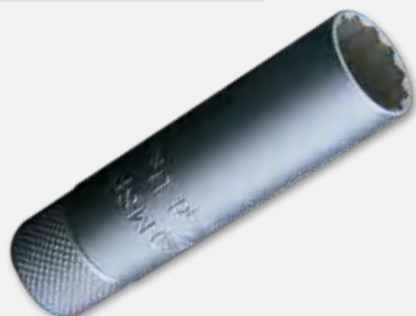
Used for R & R of oil filter housing caps on M52, M54, M60, M62, M70 and M73 engines and Mini Cooper S [2002–2006].

- 36mm - 6 Flats
- 3/8" Drive





### #MSP1412 Magnetic Spark Plug Socket



Used to remove spark plugs on BMW engines N20, N26, N54, N55 and N63 [2007-2018] and turbocharged Mini Cooper engines [2007-2015].

- 14mm - 12 Point
- 3/8" Drive
- Strong internal magnet holds spark plug firmly

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.

**COMPARABLE:** #121220



### #SP1412 Spark Plug Socket



Used to remove spark plugs on BMW engines N20, N26, N54, N55 and N63 [2007-2018] and turbocharged Mini Cooper engines [2007-2015].

- 14mm - 12 Point
- 3/8" Drive
- Rubber boot to hold spark plug

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.

**COMPARABLE:** #121220



### #H2223LGT-30 Torx Socket Insert



Used for the R & R of the airbag from the steering wheel. Applicable to many older BMW models.

- T-30
- 70mm Length



### #6500TL-80 Torx Socket

**NEW!**

Used on BMW for R & R of driver's side wiper arm on E31, E38 and E39 chassis. Also fits Lamborghini wheel lug bolts on Gallardo models.

- T-80 Tamper-proof
- 1/2" Drive
- 100mm Length



### #201-7 5-Piece Metric Stud Puller Set

5-Piece metric stud remover set. Ideal for BMW manifold studs. Includes 6mm, 7mm, 8mm, 10mm and 12mm stud remover tools.

**WARNING:** California Residents: Proposition 65. See page 125 for info.



### #BMW377 Allen Socket



Used for easy removal of the rear brake caliper slide bolts on BMW E36, E46, E39 and E31 models.

- 7mm
- 3/8" Drive
- 32mm Length

### #200-7 7mm Stud Remover and Installer

7mm Stud remover and installer. Ideal for BMW manifold studs.

**WARNING:** California Residents: Proposition 65. See page 125 for info.



### #BMW4053-1 PDC Drill Bit

**NEW!**

Used for drilling starting holes for the #BMW4053-2



### #BMW4053-2 PDC Punching Tool

**NEW!**

Used for cutting holes for the Parking Distance Control sensors into BMW replacement bumpers.

COMPARABLE: #83302334055



### #BMW11845 Torx Socket

Used for BMW VANOS housing bolts.

- T-45 Tamper-proof
- 3/8" Drive
- 100mm Length



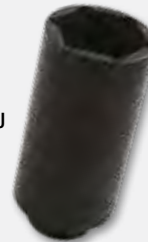
### #BMW432 VANOS Solenoid Socket



Used for removing and installing the VANOS solenoid valves on M52TU, M54 & M62TU engines [1999–2005].

- 32mm - 6 point
- 1/2" Drive

COMPARABLE: #116420.



### #BFLT60 Flywheel Socket Tool

For R & R of flywheel bolts. Applicable to E34 and E39 V8 4.0L, 4.4L and 5.0L with standard transmission.

- T-60
- 1/2" Drive
- 140mm Length

COMPARABLE: #114180



### #100-30A 12-Point Deep Socket

Used for R & R of transmission drive shaft flange nut and pinion shaft flange nut of differential. Applicable to many BMW models including E90 325 (RWD) 30mm axle nuts.

- 30mm
- 1/2" Drive
- 85mm Length
- Thin-walled



### #MC560 Rear Caliper Brake Piston Tool



Used with a universal 3/8" brake caliper piston tool. Used on all Mini Cooper models [2007–2013] (except Countryman). For [2002–2006] Mini Cooper, see #V450.

- 3/8" Drive

COMPARABLE: #346309

### #V450 Brake Caliper Piston Adapter



Used for turning in the rear brake caliper piston on Mini Cooper [2002– 2006].

- 3/8" Drive


COMPARABLE: #346301.

### #MC240 Window Wrench



Hook wrench used for adjusting the door window glass to fit BMW and Mini [2002–2013].

COMPARABLE: #513240

 California Residents: Proposition 65 WARNING. See page 125 for info.

### #BMW10160 Extra Long 10mm Socket



Used for R and R of the ground connector screw for the injector on BMW N54 engines.

- 1/4" Drive
- 160mm Length

COMPARABLE: #118620





### #MC1400-1 Mini Flywheel Locking Pin

Used for locating the crankshaft in T.D.C. position. Included in #MC1216SET, #MC1400 and #MC1800 timing set. Applicable to Mini [2007-2015].

COMPARABLE: #119590



### #ATF105 ATF Adapter

Used on Mini Cooper with "AISIN" transmission in conjunction with the #ATFBASIC. (This will not thread into the CVT Transmission.)

- M10 x 1.0 Threads



### #ATFSU100 Universal ATF Attachment



Used on Mini Cooper CVT models with restricted access to transmission fill tube. Used in conjunction with the #ATFBASIC.



### #MCB4648 Engine Timing Set

NEW!



Used for setting engine timing for BMW and Mini new B38, B46 and B48 engines. Applicable to BMW models [2016-2018] and Mini Cooper models [2014-2018].

COMPARABLE: #116480, #118580, #119340, #2358122, #2288380, #2360895, AND #2365488.



**#MC1216SET**  
**Camshaft**  
**Alignment Tool**



Used to set timing on N12 and N16 (non-turbo) engines in Mini Cooper [2007-2013], Clubman [2008-2014], Convertible [2009-2015], Countryman [2011-2016], Paceman [2014-2016], Roadster [2013-2015], Coupe [2012-2015] and Coupe JCW [2012-2012].

**COMPARABLE:** #119540, #119340 AND #119590

**#MC1800**  
**Engine Timing Set**



Used to set timing on Mini Cooper N18 turbo charged engines in Cooper JCW [2013-2013], Cooper JCW Clubman [2013-2014], Cooper JCW Convertible [2013-2015], Cooper JCW Countryman [2013-2016], Cooper JCW Paceman [2014-2016], Cooper JCW Roadster [2013-2015], Cooper S [2011-2013], Cooper S Clubman [2011-2014], Cooper S Convertible [2011-2015], Cooper S Countryman [2011-2016], Cooper S Countryman ALL4 [2013-2016], Cooper S Paceman [2014-2016], Cooper S Paceman ALL4 [2014-2016], Cooper S Roadster [2013-2015], Coupe JCW [2013-2015] and Coupe S [2012-2015].

**COMPARABLE:** #117440, #119340 AND #119590



**#MC1400**  
**Engine Timing Set**



Used to set the timing on N14 turbocharged engines in Mini Cooper JCW [2009-2012], Cooper JCW Clubman [2009-2012], Cooper JCW Convertible [2009-2012], Cooper S [2007-2010], Cooper S Clubman [2008-2010] and Cooper S Convertible [2009-2010].

**COMPARABLE:** #119550 AND #119590





### #MC9570

#### Intermediate Lever Tools

Used for removing and installing the Intermediate Levers on Mini Cooper N12 and N16 engines [2007-2016].

**COMPARABLE:** #119570, #119571, #119572 AND #119573.



### #TM1215

#### Ball Joint Hammer Nut

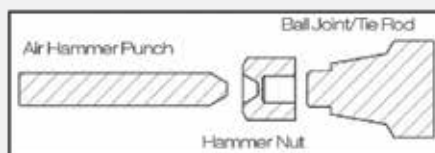
**NEW!**

Used for breaking free steering knuckle/ suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/ suspension joints threaded shafts.

- M12 x 1.5 Threads
- 22mm - 7/8" Hex



**NOTE:** FOR THE COMPLETE 4PC. SET, PURCHASE THE #TM20194 CONTAINING M12X1.25, M12X1.5, M14X1.5 AND M16X1.5.



### #TM1415

#### Ball Joint Hammer Nut

**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/ suspension joints threaded shafts.

- M14 x 1.5 Threads
- 22mm - 7/8" Hex

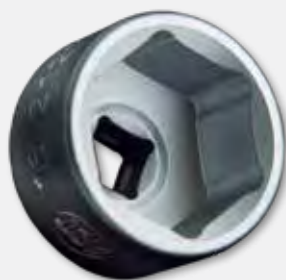


### #2127

#### Oil Filter Socket

Used to remove oil filters on BMW 535d [2014-2015], 740Ld xDrive [2015-2015], X5 35d xDrive [2014-2015] and Mini Cooper models [2007-2015].

- 27mm - 6 Flats
- 3/8" Drive



### #MC11419

#### Serpentine Belt Wrenches



Serpentine belt wrenches for Mini models equipped with N12, N14, N16 and N18 engines. Each set comes with one large and one small 12-point wrench. If needed, you can use 1/2" drive ratchet to help with indexing the wrench onto the tensioner and for compressing the tensioner back.

**COMPARABLE:** #116210

- Only sold as a pair

**WARNING:** California Residents: Proposition 65. See page 125 for info.

### #MC100

#### Serpentine Belt Tool

Serpentine belt tool used for relieving tension on belt tensioner on [2002-2006] Mini Cooper "S" Supercharger equipped models.

**COMPARABLE:** #118410



### #JLR5008 Engine Timing Set



Used on Jaguar / Land Rover models with the 3.0L & 5.0L engines in Jaguar F-Type [2014-2016], XE [2016-2016], XF [2010-2016], XJ [2010-2016], XK [2010-2015]; Land Rover LR4 [2010-2016], Range Rover [2010-2016] and Range Rover Sport [2010-2016].

**COMPARABLE:** #303-1447, #303-1452, #303-1445, #303-1482, #303-1448 AND #JLR-303-1303.

### #JLR20T Timing Tools

**NEW!**

Applicable to Land Rover Evoque and Jaguar XF RWD [2013-2017]. Included are the Flywheel locking Block, Crankshaft Positioner Plate and T.D.C. Crank locking Pin.

- Must be used in conjunction with #F20T.

**COMPARABLE:** #303-1594, #303-1595 AND 303-748.



### #F20T Engine Timing Set

Set includes the T.D.C. crank timing pin, cam locking plate and the crank position sensor (CPS) alignment block for Land Rover Evoque and Jaguar XF RWD [2013-2017].

- Must be used in conjunction with #JLR20T.

**COMPARABLE:** #303-507, #303-1521 AND #303-1565.



### #V3032 Engine Timing Set

Used for setting timing of Land Rover LR2 [2008-2012].

**COMPARABLE:** #9997257, #9997261, #9997263, #9997264, #9997271 AND #9997272.



CRANKSHAFT ALIGNMENT  
DISC MADE IN USA.







## #JLR5037 Crankshaft Holding Tool

Used on Jaguar / Land Rover models with the 3.0L & 5.0L engines [2010-2017].

- Must be used in conjunction with #JLR5038.

COMPARABLE: #303-1437



## #JLR5038 Crankshaft Bolt Socket

Used on Jaguar / Land Rover models with the 3.0L & 5.0L engines [2010-2017].

- Must be used in conjunction with #JLR 5037
- 24mm - 6 point
- 3/4" Drive

COMPARABLE: #303-1438



## #JA19015 Oil Filter Wrench



Applicable to Jaguar XF [2010-2017], XFR [2010-2016], XJ [2010-2017], XJL [2010-2016], XK [2010-2016], XKR [2010-2016]; Land Rover LR4 [2010-2017], Range Rover [2010-2017], Range Rover Sport [2010-2017] and Range Rover Velar [2018] with the 3.0L v6 and 5.0L v8 engines [2010-2017].


- 90mm - 15 Flats
- 3/8" Drive

## #MO219 Oil Filter Wrench



Applicable to Jaguar XE [2017] and XF [2013-2017]; Land Rover Evoque [2013-2015] 2.0L Turbo engines.

- 74mm - 14 Flats
- Used with 22mm socket

 California Residents: Proposition 65 WARNING. See page 125 for info.



## #JAS6514 Oil Filter Wrench



Used on Jaguar 2.0L Diesel [2017-2018]; Land Rover Evoque [2018] and Range Rover Velar [2018].

- 65mm - 14 Flats
- 3/8" Drive



## #2132 Oil Filter Socket

Used on Land Rover Range Rover 3.0L Diesel engine [2016-2017].

- 32mm - 6 Flats
- 3/8" Drive




## #OFFM2012 Engine Oil Funnel



Attaches directly to the engine oil filler neck or valve cover. Used on Jaguar XF [2013-2017] and Land Rover Evoque [2012-2017] and LR2 [2013-2015]. Made of durable ABS.

- DO NOT USE BRAKE CLEAN

 California Residents: Proposition 65 WARNING. See page 125 for info.


## #OFGMRD08 Engine Oil Funnel



Used on Jaguar S Type, X-Type [2000-2008], F-Type, XF, XFR, XJ, XJR, XK, XKR [2010-2017]; Land Rover LR4, Range Rover and Range Rover Sport [2010-2017].

- DO NOT USE BRAKE CLEAN
- Made of strong polycarbonate
- Attaches directly to the engine oil filler neck or valve cover



 California Residents: Proposition 65 WARNING. See page 125 for info.


## #OFHON1033 Engine Oil Funnel



Used on Jaguar and Land Rover models with the 4.2L V8 engine [2002-2009].

- DO NOT USE BRAKE CLEAN
- Made of durable ABS plastic
- Attaches directly to the engine oil filler neck or valve cover



 California Residents: Proposition 65 WARNING. See page 125 for info.



### #BMW345 Tank Adapter



Used to pressurize coolant reservoirs in Land Rover Discovery [1999-2004] and Range Rover [1995-2004].

- M51 x 4 threads



### #FZ36 Cap Adapter



Used to test coolant tank cap. Applicable to Jaguar F-Type, S-Type, X-Type, XF, XJ, XK [2003-2017]; Land Rover Discovery Sport, Range Rover, Freelander, LR3, Range Rover Sport [2005-2017].

- M52 x 2.5 threads



### #FZ25 Tank Adapter



Applicable to Land Rover Freelander [2002-2004].

- M47 x 3 threads



### #V450 Brake Caliper Piston Adapter



Used for turning in the rear brake caliper piston on Jaguar S-Type.

- 3/8" Drive



### #FZ32A Tank Adapter



Applicable to Jaguar F-Type, S-Type, X-Type, XF, XJ, XK [2003-2017]; Land Rover Discovery Sport, Range Rover, Freelander, LR3, Range Rover Sport [2005-2017].

- M52 x 2.5 threads



### #JLR9899 Fuel Injector Seal Tools



**NEW!**

Used to replace the Teflon seals on the direct injection fuel injectors on Jaguar and Land Rover models with the 3.0L v6 and 5.0L v8 engines. [2010-2017].

- Use #JLR0197 to remove the injectors

COMPARABLE: #310-198 AND #310-199



### #FZ47 Tank Adapter



Applicable to Land Rover Evoque [2012-2017] and LR2 [2007-2015].

- M49 x 2.5 threads

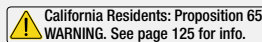


### #JLR0197 Fuel Injector Puller

Used to remove the fuel injectors on Jaguar and Land Rover models with the 3.0L v6 and 5.0L v8 engines. [2010-2017].

- Must be used in conjunction with #JLR9899 if replacing the seals.

COMPARABLE: #310-0197



### #M7226 Transmission Dipstick

Used in Jaguar models with W5A580, Jaguar XKR [2000-2002].

COMPARABLE: #307-379





## #100-30A 12-Point Deep Socket

Used for R and R of transmission drive shaft flange nut and pinion shaft flange nut of differential on Mercedes models.

- 30mm
- 1/2" Drive
- 85mm Length
- Thin-walled



## #M8160 Long 8mm Socket



Used for R&R of rear tail light assembly on Mercedes [2017-2018].

- 1/4" Drive
- 160mm Length



## #M17XLWS Lug Nut Socket

Used to R & R the "Flower Shaped" lug nut on Maybach and Mercedes 221 S-class and late model CL-class.

- 1/2" Drive
- 86mm length

FITS LUG BOLT #000 990 5407



## #MOE24 E24 Impact Socket

Used on front axle nut on Mercedes C 230, C 300, C 350 [2008-2009], C 250, C 300, C 350 [2010-2011], C 300, C 350 [2012-2014], C 350 [2015], E 350, E 550 [2010-2014], E 350 [2015-2016] and S 550 [2007-2013].

- 1/2" Drive
- 78mm Length



## #BMW10160 Long 10mm Socket



Used to remove Mercedes rear bumper securing nuts.

- 1/4" Drive
- 160mm Length



## #M17WLS Lug Nut Socket

Used to R & R the "Flower Shaped" lug bolt on Maybach and Mercedes 221 S-class and late model CL class.

- 1/2" Drive
- 50mm Length

FITS LUG BOLT #000 990 5407.



## #ALT34018 Alternator Pulley Socket

**NEW!**

Used for R and R of the free-wheel pulley on the alternator on newer Bosch Alternators.

COMPARABLE:  
#602589001000



## #M2039 Shock Crown Socket

Used for the R and R of shock absorber nut on Mercedes C-Class & CLK [2001-2009].

COMPARABLE:  
#203589000700



## #H2223LGT-30 Torx Bit



Used for the R & R of the airbag from the steering wheel on various Mercedes models [1998-2002].

- T-30
- 70mm Length



## #6500TPT-100 Torx Socket

Used to remove and replace the camshaft adjuster central valve on Mercedes 274, 276, 270, 278 and 271 engines [2012-2016].

- T-100 Tamper-proof
- 1/2" Drive
- 95mm Length

COMPARABLE: #271589001000



## #6500T-100 Torx Socket

Used to remove the plug for accessing the parking pawl detent on the 722.9 Mercedes transmissions.

- T-100
- 3/4" Drive
- 60mm Length



## #6300T-50 Torx Socket

**NEW!**

Used on Mercedes alternator pulley bolts.

- T-50
- 3/8" Drive
- 73mm Length



## #M820 Glow Plug Socket

Applicable to glow plugs on Mercedes and Sprinter.

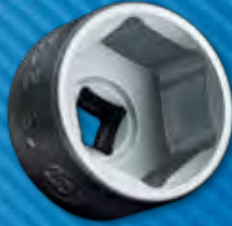
- 8mm
- 3/8" Drive



### #2127 Oil Filter Socket

Used on Mercedes C 300 [2015].

- 27mm - 6 Flats
- 3/8" Drive



### #2136 Oil Filter Socket

Used on Mercedes diesel engines OM604, OM605 and OM606.

- 36mm - 6 Flats
- 3/8" Drive




### #2101 7-Piece Oil Filter Wrench Socket Set



Includes oil filter wrench sockets for many domestic and foreign applications.

- This set covers all Mercedes applications by using 2127, 2136, M0219 and M0284.



 California Residents: Proposition 65 WARNING. See page 125 for info.


### #M0284 Oil Filter Wrench



Used for Mercedes vehicles equipped with 3.0L V6 CRD (Common Rail Diesel) engines.

- 84mm - 14 Flats
- Used with 22mm socket



 California Residents: Proposition 65 WARNING. See page 125 for info.

### #M0219 Oil Filter Wrench




Used for Mercedes engines M113, M276, M285, M120, M104, M155, M112, M273, M275, M119, M137, M111, M272 and Sprinter (gas engine) [1998–2015].

- 74mm - 14 Flats
- Used with 22mm socket

COMPARABLE: #103589020900



 California Residents: Proposition 65 WARNING. See page 125 for info.


### #2175 Oil Filter Wrench



Used to remove oil filter on Mercedes C 350, C 400, E 250, GLK 250, ML 250 [2014–2016], Sprinter 2.7L [2003–2006] and Sprinter 2.1L [2014–2016].

- 74.5mm - 14 Flats
- Use with 22mm socket



 California Residents: Proposition 65 WARNING. See page 125 for info.

### #MB4517 Injection Line Wrench



Used on Mercedes Diesel fuel injection lines.

- 3/8" Drive

### #M1620 Motor Mount Wrench



Used to loosen bolt on the motor mount Mercedes 272 and 273 engines [2002–2008].

- 3/8" Drive

### #H2760 Oil Drain & Plug Wrench



Used for the R and R of the differential oil filler plug on many Mercedes-Benz models.

### #MVW2050F Fuel Line Pliers



Used for fuel lines with plastic snap-together connectors found on Mercedes ML 320 and ML 430 [1998–2005] fuel filters.

COMPARABLE: #163589003700





## #TM1215

### Ball Joint Hammer Nut

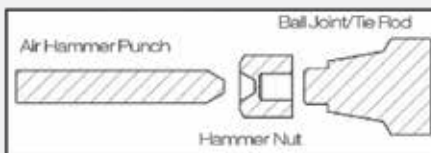
**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts.

- M12 x 1.5 Threads
- 22mm - 7/8" Hex



**NOTE:** FOR THE COMPLETE 4PC. SET, PURCHASE THE #TM20194 CONTAINING M12X1.25, M12X1.5, M14X1.5 AND M16X1.5.



## #TM1415

### Ball Joint Hammer Nut

**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts.

- M14 x 1.5 Threads
- 22mm - 7/8" Hex



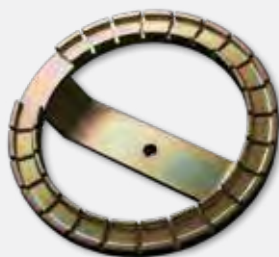
## #MB164251

### Fuel Pump Wrench

Used for R & R of the fuel pump on Mercedes 164 and 251 chassis [2006-2014].

- 1/2" Drive

**COMPARABLE:** #164589010700



**WARNING:** California Residents: Proposition 65  
WARNING: See page 125 for info.

## #FZ55

### Tank Adapter



Cooling system pressure tester adapter. Applicable: Dodge / Freightliner / Mercedes Sprinter vans [2007-2019].

- M46 x 2.5 Threads



## #FZ32A

### Tank Adapter



For pressurizing cooling system on Mercedes ML 320 and ML 430 [1998-2005].

- M52 x 2.5 Threads

## #FZ36

### Cap Adapter



Used to test coolant tank cap on Mercedes ML 320 and ML 430 [1998-2005].

- M52 x 2.5 Threads

## #M034919

### Tank Adapter



Used for pressurizing the cooling system on various Mercedes models [1996 - 2019].

- M62 x 4 Threads
- For ML models [1998-2005], see #FZ32A.



**#FUN14EURO**  
**FUN14KIT**  
**Euro Adapter**



Used in conjunction with #FUN14KIT. It attaches directly to the valve cover, so when you're adding oil to the engine you don't have to worry about making a big mess due to the internal baffle of the valve cover of Mercedes engines [1993-2016].

- May not fit applications where cowl causes interference.



**#OFAUD1000**  
**Euro 1/4 Turn**  
**Oil Funnel**



Attaches directly to the valve cover, so when you're adding oil to the engine you don't have to worry about making a big mess due to the internal baffle of the valve cover of Mercedes engines [1993-2016].

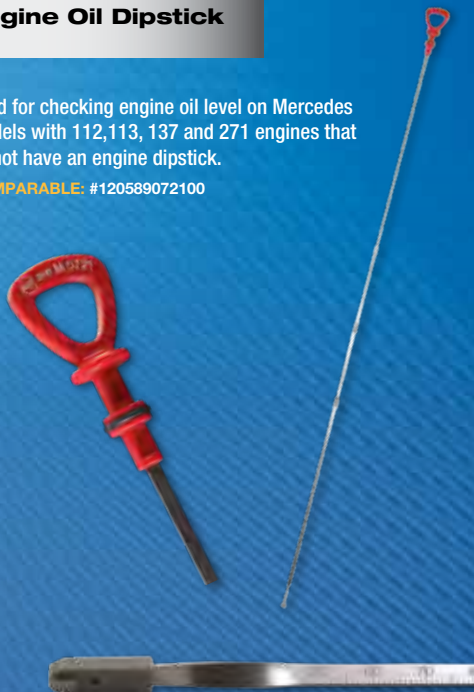
- May not fit applications where cowl causes interference.



**#M0721**  
**Engine Oil Dipstick**

Used for checking engine oil level on Mercedes models with 112,113, 137 and 271 engines that do not have an engine dipstick.

**COMPARABLE:** #120589072100



**#M7226**  
**Transmission Dipstick**

Used for checking ATF level in Mercedes models with the 722.6 transmission [1997-2006].

**COMPARABLE:** #140589152100



**#M21250**  
**Transmission Dipstick**

Used for checking ATF level in Mercedes CLA and GLA models with the 724 Transmission [2014-2017].

**COMPARABLE:** #168589012100







## #ATFMB Driveline Filler

Used for filling transmission fluid in Mercedes 722.9 automatic [2004-2018].

- For 724 transmission, see #M21250.
- For 725 transmission, see #ATFMB725.

NOT SUITABLE FOR USE WITH FUELS OR SOLVENTS.



## #ATF129 ATF Filling Adapter



Used for filling transmission fluid in Mercedes 722.9 automatic [2003-2018].

- For 725 Transmissions, see #ATFMB725

## #S3054X-10 Head Bolt Socket



Used for R and R of cylinder head bolts. Applicable to Mercedes OM 601, OM 602 and OM 603 engines.

- 10mm
- 1/2" Drive
- 140mm Length

COMPARABLE: #601589001000



## #S3054X-12 Head Bolt Socket



Applicable to Mercedes head bolts on OM 6 15, 616, 617, M 102 and M 103 engines.

- 12mm
- 1/2" Drive
- 140mm Length

COMPARABLE: #617589001000



## #ATFMB725 Transmission Filling Adapter Set

**NEW!**

Used for filling the Mercedes 725 transmissions [2014-2019]. Used in conjunction with #ATF129 adapter and one of our ATF Filling Units.



## #M0333 Instrument Cluster Puller

Used for R and R of the instrument cluster on Mercedes 107, 116, 123, 124, 126, 129, 140, 168, 170, 201, 202, 208, 210 and 463 chassis.

COMPARABLE: #110589005900



## #3206 Door, Trim and Molding Tool Set

Set includes a T-25 long Torx screwdriver Shank Length 10 inches for accessing door handles on various Mercedes models. One trim spoon and one light duty hook is included for various interior jobs. Includes one pair of trim and cluster hooks. Three soft wedges are also included for various trim and molding jobs both for interior and exterior applications. Includes carrying pouch.



## #M27161 Camshaft Alignment Fixture

Camshaft alignment fixture for Mercedes C 230 [2003-2005], C 250 [2012 - 2015] and SLK 250 [2012-2015].

COMPARABLE: #271589006100



### #OFAUD1000

#### Euro 1/4 Turn Oil Funnel



Specifically designed to attach to the valve covers. When adding oil to the engine you don't have to worry about making a mess due to the internal baffle of the valve cover. Applicable: Volvo 2.5L engines.

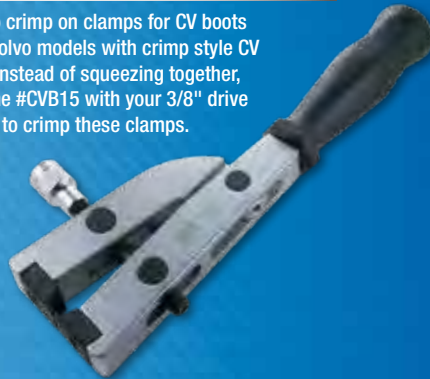


- May not fit applications where cowl causes interference.

### #CVB15

#### CV Clamp Crimping Tool

Used to crimp on clamps for CV boots on all Volvo models with crimp style CV boots. Instead of squeezing together, drive the #CVB15 with your 3/8" drive ratchet to crimp these clamps.



### #V500

#### Cam and Crankshaft Alignment Set



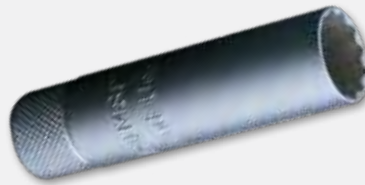
CAMSHAFT AND CRANKSHAFT  
TIMING FIXTURES MADE IN USA

Used for the alignment of the camshafts and crankshafts on all in-line (4, 5 and 6-cyl.) twin cam motors through 2011, except the 3.0L and 3.2L. May also be used to align the camshafts with the cam cover.

**COMPARABLE:** #9995451, #9995452, #9995453 AND #9995454.

### #MSP1412

#### Magnetic Spark Plug Socket



Applicable to Volvo models S60 [2016-2018], S60 Inscription [2016-2018], S60 Cross Country [2017-2018], S60 Polestar [2017-2018], S60 R Design [2017-2018], S80 [2016], S90 [2017-2018], V60 [2016-2018], V60 Cross Country [2017-2018], V60 Polestar [2017-2018], V60 R Design [2017], V90 [2017-2018], V90 Cross Country [2017-2018], XC60 [2016-2018], XC60 R Design [2016-2018], XC70 [2016] and XC90 [2016-2018].

- 14mm - 12 Point
- 3/8" Drive
- Strong internal magnet holds spark plug firmly



### #SP1412

#### Spark Plug Socket



Applicable to Volvo models S60 [2016-2018], S60 Inscription [2016-2018], S60 Cross Country [2017-2018], S60 Polestar [2017-2018], S60 R Design [2017-2018], S80 [2016], S90 [2017-2018], V60 [2016-2018], V60 Cross Country [2017-2018], V60 Polestar [2017-2018], V60 R Design [2017], V90 [2017-2018], V90 Cross Country [2017-2018], XC60 [2016-2018], XC60 R Design [2016-2018], XC70 [2016] and XC90 [2016-2018].

- 14mm - 12 Point
- 3/8" Drive
- Rubber boot to hold spark plug



### #V3032

#### Engine Timing Set

Used to set timing on 3.0L /3.2L engines in Volvo S60 [2011-2013], S60 R [2012-2013], S80 [2007-2013], V70 [2008-2010], XC60 [2010-2013], XC60 R [2012-2012], XC70 [2008-2013], XC90 [2007-2013], XC90 R [2012-2013]. Crankshaft alignment disc made in USA.

**COMPARABLE:** #9997257, #9997261, #9997263, #9997264, #9997271 AND #9997272.





### #VB414 Oil Filter Wrench



Fits Volvo 2.0L turbo models.  
Applicable: Volvo S60, S80, V60, XC60 and XC70 [2015–2019].

- 16 Flats
- Use with 22mm socket

California Residents: Proposition 65  
WARNING: See page 125 for info.



### #V410 Oil Filter Wrench



Used for all Volvo models [1999–2006] (except 2005 40 & 50 Series).

- 86.5mm - 16 Flats
- Use with 22mm socket

COMPARABLE: #9995679

California Residents: Proposition 65  
WARNING: See page 125 for info.



### #2136 Oil Filter Socket

Applicable:  
[2007–2014] Volvo models with 36mm hex molded into the oil cap.

- 36mm - 6 Flats
- 3/8" Drive



### #ALT34018 Alternator Pulley Socket

**NEW!**

Used for R & R of the free-wheel pulley on the alternator. Used in conj. with #S 3054 X-10 or #6300 T-50 sockets. Applicable: Volvo C70, S40, S60, S70, S80, V50, V60, V70, V70 XC, XC60, XC70, XC90.

COMPARABLE: #9995760



### #FZ22 Tank Adapter



For pressurizing cooling system. Applications: Volvo trucks with M48 x 3 threads on filler neck. Applicable to [2005] Volvo V670 and VN430.

- M48 x 3 Threads



### #FZ25 Tank Adapter



For pressurizing cooling system. Applicable: [1978–2007] Volvo passenger vehicles with threaded neck and Volvo trucks with M47 x 3 threads on secondary filler neck (except S40 and V50).

- M47 x 3 Threads



### #EU2090 Allen Socket

Brake caliper socket Applicable to Volvo front caliper slide bolts [2010–2015].

- 9mm
- 3/8" Drive
- 52mm Length



### #V450 Brake Caliper Piston Adapter



Used for turning in the rear brake caliper piston on Volvo 40 and 50 Series.

- 3/8" Drive



### #V5720 Fuel Tank Locking Ring Tool



Applicable: Volvo V70 [2000–newer], S80, XC90, S60, V70 XC (2001–newer) / XC70. Used on the following engines: B5204T5, B5234T3, B5244S, B5244S6, B5244SG, B5244SG2, B5244T3, B5244T5, B5254T2, B5254T4, B5254T9, B6284T, B6294S, B6294S2, B6294T, B6304S3, B6324S, B6324S5, B8444S, D5244T, D5244T18, D5244T4 and D5244T5.

- 1/2" Drive

COMPARABLE: #9995720



### #FZ47 Tank Adapter



Used for pressurizing the coolant system on Volvo S40 [2004.5–2010], S60 [2010–2018], S80 [2008–2016], S90 [2018], V50 [2005–2012], V60 [2015–2018], XC60 [2010–2018], XC70 [2008–2016] and XC90 [2016–2018].

- M49 x 2.5 threads



### #T10389 Assembly Tool

For removal and installation of the lock cylinder housing on doors with no lock cylinder. Applicable: VW Tiguan [2009-2016]. Included in #3206 set.



### #3035 3.5mm Socket

Used for R & R of the Proximity (Radar)Sensors and any place a 3.5mm socket is needed.

- 1/4" Drive
- 25mm Length



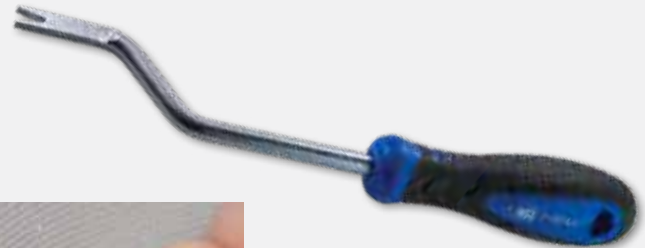
### #VW93005 Connector Release Tool

Used to remove flat terminals with two release tangs from the connector plug (1mm wide, 2mm apart and 16mm long).



### #T10518A Grab Handle Release Tool

Used to remove the roof grab handle of the Golf [2013-2017] and Tiguan [2016-2017] without causing damage.



### #3316 Radio Removal Keys



For removing the factory-installed radio. Applicable: new body style VW Passat [1999-2005] and Jetta and Golf [1999-2005] with vertically aligned key slots.

### #3344A Radio Removal Tool



For radio removal on Audi A4, A6, A8 and VW new Beetle models with horizontally aligned key slots. Two pair required in most cases.

COMPARABLE: #T10057



## #VW20T Engine Timing Set

For VW/Audi models with 2.0L (turbo) [2009–2017] .

**COMPARABLE:** #T10352, #T10352-1, #T10355, #T10368, #T40011, #T40196, #T40267 AND #T40271.

- Sometimes requires the use of additional tool #T 40243



## #T4306 Engine Timing Set

Used to hold and align the camshafts on Audi 3.0L engines in A4 [2002–2005] and A6 [2002–2004].

**COMPARABLE:** #T40011, #T40026, #T40028 AND #T40030.



### #3359 TDI Injector Pump Locking Pin



Used on VW TDI engines [1999–2014].  
Locks cam on 1.9L (BEW and BRM).  
Also used on newer VW 2.0L turbo diesel  
(CBEA, CKRA and CJAA).  
For 2009–Newer, two #3359 pins are required.



### #6814TDI TDI Timing Belt Tools

Used on VW TDI engines [1999–2014]. Locks cam on 1.9L (BEW and BRM).  
Also used on newer VW 2.0L turbo diesel (CBEA, CKRA and CJAA).

- Set includes 2 of the #3359.



### #3428 TDI Cam Lock Bar



For locking the camshaft on VW  
TDI without removing the valve  
cover [1999–2003]. Replaces  
the old style #3418. Used in  
conjunction with #3359.

**COMPARABLE:** #T10098A



### #T40079

#### Timing Chain Adjuster

Used to tension the Timing Chain via the Camshaft Adjuster on 3.0L V6 Supercharged (CGXB & CTUA) and 4.2L V8 4v (BAR, BNS, BVJ, CAUA) engines in Audi A7 [2012-2015], A8/A8L [2007-2009], Q7 [2007-2009], RS4 [2007-2008] and S5 [2008-2009].

- Use with 24mm or 15/16" socket

California Residents: Proposition 65  
WARNING: See page 125 for info.



### #3366

#### Bracket for Chain Adjuster

For removing and installing the timing chain adjuster. Applicable: VW/Audi 4-cyl., 6-cyl. and 8-cyl. (5v) engines.



### #T40243

#### Chain Tensioner Lever



Used for slackening the Chain Tensioner when detaching the Timing Chain from the Camshaft. Applicable to 2.0L 4-Cylinder turbo TFSI (CAEB) engine.

- Used in conjunction with #VW20T.

### #T40267

#### Locking Clips



Locking clips for chain tensioner. Applicable to 2.0L 4-cyl. (4v) turbo TFSI (CAEB) engine (Generation III).



### #VW87-2

#### Timing Belt Spanner Wrench

For adjusting the timing belt tension. Applicable: VW Golf, Jetta, Passat [1999–later] and VW Beetle with 2.0L gas engine and 1.9L TDI diesel engine [1999–2003].

COMPARABLE: #T10020



### #VW87-1

#### Timing Belt Spanner Wrench

For the adjustment of the timing belt. Applicable: VW Golf, Jetta Pumpe-Duse [2004–2005] and Audi 3.0L V6 [2002–2005].

COMPARABLE: #3387



### #H2587

#### Spanner Wrench



For adjusting the tension of the timing belt. Applicable: [through 1998] 4-cyl. VW Golf and Jetta, [through 1997] 4-cyl. VW Passat, Corrado, 1.9 liter TDI models; and Audi 4-cyl. diesel models.

COMPARABLE: #V159



### #T40011 3-Piece Locking Pin Set

Used to lock the timing belt tensioner while relieving pressure from the belt. Applicable: VW/Audi 3.0L V6 (5v), some 1.8L 4-cyl. (5v) turbo and 4.2L V8 (5v) with timing belt.



### #3242 Crankshaft Locking Pin



Used to lock the crankshaft at TDC position in the VW/Audi engines: 2.7L V6 (APB), 2.8L V6 (except VR6) (AAH, AFC), 2.8L (AHA, ATQ), 4.0L W8 (BDP), 4.2L V8 (BAR, BNS, BVJ, BYH, CAUA), 4.2L V8 (AKB, AUX, AYS, AXQ, BAS, BFM, BGK, BHF, BNK), 5.2L V10 (BSM, BXA) and 6.0L W12 (BAP, BHT, BRP, BSB).



### #T40069 Crankshaft Locking Pin

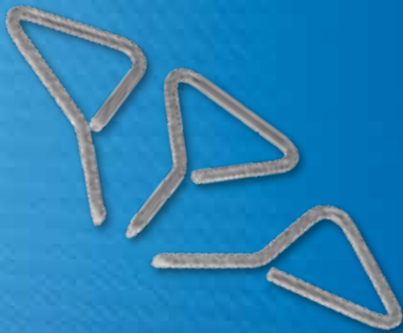


Locking pin to lock crankshaft at TDC in VW/Audi engines 2.5L (BGP, BGQ, BPR, BPS, CBTA and CBUA), 3.0L Supercharged (CGXB, CTUA, CJWB, CJWC, CJWE, CTWA and CTWB) and 3.2L (BKH and CALA). Applicable: Audi A4 [2005–2009], A5 [2008–2009], A6 [2009–2013], A7 [2012–2015], Q5 [2009–2017], Q7 [2011–2015]; VW Jetta [2005–2012] and Rabbit [2006–2009].



### #T10115 Tensioner Locking Pins

Used to hold the timing belt tensioner in place while removing and installing the timing belt on VW Golf, Jetta and Beetle with 1.9L TDI Pumpe-Duse (BEW) and 2.0L turbo (BPY) engine [2004–newer].



### #T40026 Crankshaft Locking Pin



Used to lock the crankshaft at TDC position when replacing the timing belt on Audi 3.0L [2002–2005]. Used in conjunction with #T40011, #T40028, #T40030. See #T4306 for complete set.



### #T10368 Crankshaft Thrust Piece



Used when removing and installing lower timing chain cover on VW/Audi 2.0L (4v) turbo with chain (CAEB) in A3 [2008–2009], A4 [2009–2010], EOS [2009], GTI [2008–2009], Jetta, Tiguan [2009–2015] and TT [2009].



### #T40009 Tensioner Spanner Wrench

Used when adjusting the toothed belt tensioner eccentric to the proper pre-tension torque on VW/Audi V8 5v per cylinder.

- 1/4" Drive



### #3299A Tensioner Release Tool

Used for R & R of Serpentine belt. Applicable to Audi models with 3.0L V6 engines: Audi A4, A6 [2002–2005].







**#7200**  
**Camshaft Pulley Holder**



Fits VW/Audi 1.8L, 2.0L turbo, 2.0L (BBW), 2.5L and 3.2L. Comes with 3 sets of interchangeable pins. Pins may be threaded in two different locations, based on application access. Overall length 18". 12" spread between pins at tip of arms, when pivot arm is at 90 degrees. Holding pins are made in USA.

COMPARABLE: #T10172

**#T10252**  
**Camshaft Locking Tool**



Camshaft locking tool for VW/Audi 2.0L turbo engines (BPG, BPY and BWT). Applicable to Audi A3 [2006–2008], A4 [2005–2008], TT [2008–2009]; VW EOS [2007–2008], GTI and Jetta [2006–2008].

- Used in conjunction with #VW5220, #T10115 and #VW87-2.

**#T10050**  
**Crankshaft Stop**

Used for locking the crankshaft in place during timing belt replacement on VW TDI Pumpe-Duse engines [2004–2014] (BEW, BHW, BRM, CBEA, CJAA and CKRA) equipped with round pulley #038105263F and #045105263A. On the VW Jetta 1.9L BRM engine [2005–2006], it may need the #T10100 crankshaft stop instead if equipped with oval pulley number #038105263H. Also used on newer VW 2.0L TDI (BHW, CBEA and CJAA).



**#T10100**  
**Crankshaft Stop**

Used to lock the crankshaft in place during timing belt replacement. (\*TDC marking at 1 o'clock). Applicable: VW Jetta 1.9L BRM with oval pulley part #038105263H [2005–2007].



### #T10052 Cam Sprocket Puller



Used to remove camshaft sprocket from taper on camshaft. Applicable: VW 1.9L TDI-PD (BEW) (BRM) and 2.0L 4v TDI (CBEA).



### #VW4006 Puller Set



Puller used to remove cam sprockets. Applicable: VW 4-cyl. TDI, VW/Audi V6 5v and Audi V8 40v. Also includes both arms for 2.0L turbo direct injection engines (BPY, BPG and BWT). Includes: 18mm, 23mm and 25mm pulling arms.

**COMPARABLE:** #T40001, #T40001-6 AND #T40001-7



### #VW10352 Assembly Tool



Used for R & R of 4/3 way central valve for camshaft adjustment. Applicable to 2.0L 4-cyl. 4v turbo TFSI (CAEB) engine.

- 3/8" Drive

**COMPARABLE:** #T10352 AND #T10352-1



### #T40028 Camshaft Adjusting Socket

Used to adjust variable valve timing on the exhaust side camshaft to basic position. Applicable to 3.0L V6 in A4 [2002–2005] and A6 [2002–2004].

- 3/8" Drive



#T 40028  
SHOWN HERE  
IN USE. RATCHET  
NOT INCLUDED

### #T40058 Crankshaft Socket

For turning the crankshaft. Applicable: VW/Audi engines 3.2L V6 (BKH and CALA), 4.2L V8 (BAR, BNS, BVJ and CAUA), 4.2L V8 (BNK) and 5.2L V10 (BSM and BXA). Applicable: Audi A4, A6 [2005–2009]; A8, Q7, S6, S8 [2007–2009] and S5 [2008–2009].



### #VW5220 Camshaft Adjuster Socket

Used for camshaft adjuster bolt on VW/Audi 2.0L turbo (BPG & BPY) engines.

- #10 Polydrive
- 1/2" Drive
- 53mm Length

**COMPARABLE:** #T40080



### #T40001-6 Puller Claw

Used to remove camshaft gear/wheel on VW/Audi 2.0L (BPY, BPG and BWT) engines. Used in conjunction with #T40001 and #T40001-7. Included with #VW4006 set.



### #T40001-7 Puller Claw

Used to remove camshaft gear/wheel on VW/Audi 2.0L (BPY, BPG and BWT) engines. Used in conjunction with #T40001 and #T40001-6. Included with #VW4006 set.





**#T10531**
**Vibration Damper Assembly Tool**

Used to dismantle & assemble the vibration damper on 1.8L and 2.0L 4v TFSI Direct Injection Engines. Applicable to VW/ Audi A4 [2010-2015], A5 [2010-2015], Beetle [2014-2015], CC [2014-2015], EOS [2012-2015], GTI [2014-2015], Passat [2014-2015], Tiguan [2012-2015] and TT [2010-2015].


**#T10355**
**Crank Counter Hold Tool**

For counter-holding the vibration damper when loosening or tightening the center bolt of the crankshaft in VW/ Audi 2.0L turbo TFSI ( CAEB, CBFA and CCTA) engines [2009–newer].


**#T10068A**
**Camshaft Alignment Fixtures**

Used in VW/Audi 2.8L VR6 4v (AXK and BDF), 3.2L VR6 4v (BAA, BJS, BMX, BUB and CBRA), 3.6L VR6 4v (BHK, BHL and BLV) and 6.0L V12 (BAP, BRP and BSB). Applicable to Audi A3 [2006 - 2009], A8 [2005 - 2009], A8L [2005 - 2009], Q7 [2007 - 2009], TT [2004 - 2009]; Porsche Cayenne 3.6L [2008 - 2016]; Volkswagen CC [2009 - 2009], EOS [2007 - 2009], Eurovan [2001 - 2003], Golf [2004 - 2004], GTI [2002 - 2006], Phaeton [2004 - 2006], R32 [2004 - 2008] and Touareg [2004 - 2009].


**#T40271**
**Camshaft Clamp**

Used to lock camshaft sprockets in TDC position when installing timing chain on 2.0L turbo TFSI (CAEB) engines [2009– newer]. Essential for Generation III, very helpful for Generation I and II.


**#3391**
**Camshaft Alignment Tool**


Used to align both camshafts in VW/Audi V6 2.8L and 2.7L 5v engines (APB, AHA, ATQ and BEL) in Audi A4, A4 Avant [1998–2001], A6 [1998– 2004], A6 Avant [1999– 2001], Allroad Quattro [2001-2005], S4 [2000– 2002], S4 Avant [2001– 2002]. Used in conjunction with #3242.


**#T40196**
**Drift for Camshaft Slide Pieces**


Used to set basic setting of cam slide adjuster on camshaft on 2.0L 4v (CAEB) turbo engines in Audi A4 [2008–2013] and Q5 [2009–2013].



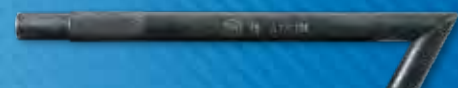
### #ATF103 ATF Adapter



For filling the VW Touareg transmission. Used in conjunction with ATF Filler System. Does not include pump, container, hose, or shut-off valve.

COMPARABLE: #VAG1924/1

### #ATF104 ATF Adapter



Long, angled VW/Audi adapter Used in conjunction with ATF Filler System.. Does not include pump, container, hose, or shut-off valve.

COMPARABLE: #VAG1924

### #ATF105 ATF Adapter



Used on VW/Audi transmissions. Used in conjunction with ATF Filler System.

- M10 x 1.0 Thread

COMPARABLE: #VAS6262/2

### #ATF16DSG “DSG” ATF Adapter

VW/Audi DSG driveline adapter used with the ATF Filler System.

- M24 x 1.5 Thread

COMPARABLE:  
#VAS6262A



### #ATFVW5 5-Piece Driveline Filler

Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Container made of UHDP (ultra high density polyethylene). Individual manufacturer sets are available as well as the individual adapters. Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards. Applicable to Audi, Porsche and Volkswagen models [1999-2018]



ATF CONTAINER  
IS MADE IN USA

- includes #ATF17CVT,  
#ATF16DSG, #ATF104,  
#ATF105, AND #ATF103



### #ATF17CVT “CVT” ATF Adapter

VW/Audi CVT driveline adapter used with the ATF Filler System.

- M22 x 1.5 Thread

COMPARABLE: #VAS5162



### #T10066 Haldex Filter Wrench



Used for R & R the oil filter of the Haldex clutch on Audi TT and Volkswagen R32. (02C and 02M transmissions).

**TO SEE OUR  
COMPLETE LINE OF  
DRIVELINE FILLERS  
AND ADAPTERS,  
SEE PAGES 84-87.**





### #VW133SI

#### Injector/Chamber Tool Set



Used to remove and install high pressure injectors and combustion chamber seal in VW/Audi models with 1.8L, 2.0L turbo, 3.2L V6 4v and 4.2L V8 4v. Applicable to Audi A3 [2006–2016], A4 [2005–2015], A5 [2008–2015], A6 [2005–2015], A7 [2012–2015], A8 [2007–2015], Q5 [2010–2017], Q7 [2007–2015], RS4 [2007–2008], S4 [2005–2015], S5 [2008–2015], S6 [2007–2015], S8 [2007–2015] and TT [2008–2015]; VW Beetle [2012–2015], CC [2009–2015], EOS [2007–2016], Golf [2006–2016], GTI [2006–2017], Jetta [2005–2016], Passat [2008–2015], Tiguan [2009–2015] and Touareg [2007–2015].

COMPARABLE: #T10133



### #3307

#### Fuel Pump Wrench

For R & R of the fuel pump on various VW/Audi models: Audi A4 [2002–2004], A6 [1999–2004].

California Residents: Proposition 65 WARNING. See page 125 for info.



SHOWN  
HERE WITH  
MERCEDES  
FUEL LINE

### #MVW2050F

#### Fuel Line Pliers

Used for fuel lines with plastic snap-together connectors found on VW Golf [1999–2005].



SHOWN  
HERE WITH  
AUDI FUEL  
FILTER



### #3217

#### Fuel Sender Spanner

Used to remove and install the fuel gauge sending unit. Applicable to Porsche Boxster (986) [1997–2004] and 911 Carrera, Turbo, GT2 and GT3 (996) [1999–2005]; VW Passat (FWD) [1998–2005].

- 1/2" Drive
- 139mm

California Residents: Proposition 65 WARNING. See page 125 for info.



### #FZ163 Cooling System Adapter



For pressurizing cooling system. Applicable to Porsche Cayman [2005–2013] and Boxster [2007–2012].



### #T40149 A/C Coupler Release Tools

**NEW!**

Used to disconnect the A/C coupler on Audi A4, A5 and Q5 [2007–Newer].



### #TA18 Adapter



For brake master cyl. or clutch master cyl. reservoirs. Used in conj. with pressure bleeder. (1/4-18 NPT). Fits most European cars.

- M46 x 3.5 Threads
- 1/4-18 NPT Air fitting not included



### #FZ22 Tank Adapter



For pressurizing cooling system. Fits VW/Audi [1978–1993] models with male threads on filler neck of expansion tank. Applicable: Audi A8 and S8.

- M48 X 3 Threads



### #FZ41 Tank Adapter



For pressurizing cooling system on VW/Audi models (except older A8 and S8) [1999–2018]; Porsche 911 (991 body) [2012–2015] and Cayenne [2004–2013].

- M63 X 3 Threads





## #OFVW2013 Oil Funnel



VW/Audi engine oil funnel for 1.8L, 2.0L Turbo and 2.0L diesel engines. Applicable to Audi A3 TDI [2015-Newer], Q3, S3 [2016-Newer]; VW Beetle, Convertible, EOS, Golf, Jetta, Jetta Sportwagon, Passat and Tiguan [2014-2018].



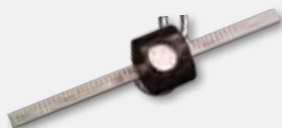
## #OFAUD1000 Euro 1/4 turn Oil Funnel



No more mess, attaches directly to the valve cover and seals just like the factory cap. Fits VW/Audi 1.4L turbo, 1.8L turbo, 1.9L TDI, 2.0L turbo, 2.8L 5v, 3.0L 5v, 3.2L, 3.6L and 4.2L 5v and Tiguan 2.0L [2016]. For newer TDI and 2.0 turbo engine [2014-2018], see funnel #OFVW2013.



## #AU40178 Engine Oil Dipstick



Applicable to Audi A4 [2009-2017], A5 [2009-2015], A6 [2009-2015], A8 [2011-2014], Q5 [2013-2015], RS5 [2013-2015], S4 [2010-2015], S5 [2009-2012], S6 [2013-2015], S7 [2013-2015]; Porsche Cayenne S Hybrid [2011-2014], Panamera S Hybrid [2012-2014]; Volkswagen Touareg [2011-2014].

COMPARABLE: #T40178



## #T40057 Oil Filter Housing Drain

For draining the oil filter housing on VW/Audi with 2.0L turbo (BPG, BPY & BWT) [2006-2008] and 2.5L inline 5-cyl. engine [2005-2014]. Prevents spillage during oil filter change and allows for drainage of oil from the filter housing.



## #VW10549 Drain Plug Tool



Used to remove and install the oil drain plug on VW/Audi with 1.8L and 2.0L Turbo engines [2015-2019]. Applicable engines: CPKA, CPRA, CPPA, CBFA, CCTA, CBEA, CNTA, CXCA, CXBB, CXBA, CPKA, CNSB and CNSA.



## #FUN14EURO FUN14KIT Euro Adapter



For use with our #FUN14KIT. Specifically designed to attach to the valve covers. When you're adding oil to the engine you don't have to worry about making a big mess due to the internal baffle of the valve cover. \*May not fit applications where cowl causes interference. Fits VW/Audi 1.4L turbo, 1.8L turbo, 1.9L TDI, 2.0 turbo, 2.8L (30v), 3.0L (30v), 3.2L, 3.6L and 4.2L (40v).

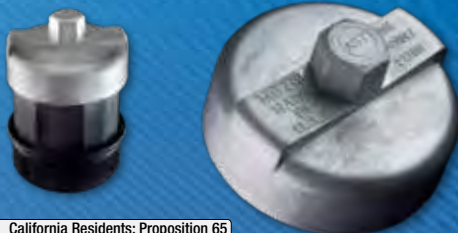



## #M0219 Oil Filter Wrench



Applicable to Audi A4 [2009–2016], Q5 [2012–2016] 2.0L Turbo engines; VW CC, EOS, Tiguan [2009–2013], Golf [1999–2005], GTI [2008], Jetta [2005–2013], Jetta 1.4T [2016], Beetle 2.5L [2005–2014]; Porsche 911 [1999–2008], Boxster [1997–2008] and Cayman [2005–2008].

- 74mm - 14 Flats
- Use with 22mm socket



 California Residents: Proposition 65  
WARNING. See page 125 for info.




## #2101 7-Piece Oil Filter Wrench Socket Set



Includes oil filter wrench sockets for many domestic and foreign applications. The 2132, 2136, 2175 and M0219 cover VW/Audi engines.




 California Residents: Proposition 65  
WARNING. See page 125 for info.

## #2175 Oil Filter Wrench



Applicable to Golf, Jetta and Rabbit with 2.5L engines.

- 74.5mm - 14 Flats
- Use with 22mm socket

 California Residents: Proposition 65  
WARNING. See page 125 for info.



## #2132 Oil Filter Socket

Applicable to Audi Q3 & S3 2.0L Turbo, [2015–2016] and VW Golf and Jetta 2.0L TDI [2011–2016].

- 32mm - 6 Flats
- 3/8" Drive
- #23236 Double-sided Socket may be purchased instead, and adds more coverage



## #2136 Oil Filter Socket

Applicable to Audi Q7 3.6L, A6 3.0 L SC [2014–2016], Q7 3.0L SC [2011–2016]; VW Corrado VR6 [1993], Eurovan VR6 and Golf R32 3.2L VR6 [2004], Jetta 2.0L turbo [2006]; Jetta 2.8L VR6, Passat 2.8L VR6, Touareg Porsche 911, Boxster, Cayenne and Panamera [2009–2016].

- 36mm - 6 Flats
- 3/8" Drive
- #23236 Double-sided Socket may be purchased instead, and adds more coverage





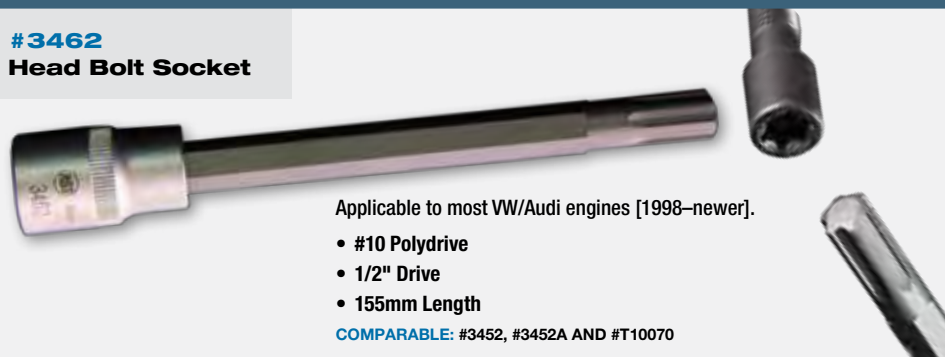
### #23236 32 x 36mm Oil Filter Socket

Double sided 3/8" drive. Applicable to Audi Q3 and S3 2.0L Turbo [2015–2016], A6 3.0L [2014–2016], Q7 3.0L [2011–2016], Q7 3.6L [2007–2010]; Volkswagen TDI [2011–2016], Touareg [2009–2016] and VR6 motors.



DOUBLE-SIDED

### #3462 Head Bolt Socket



Applicable to most VW/Audi engines [1998–newer].

- #10 Polydrive
- 1/2" Drive
- 155mm Length

COMPARABLE: #3452, #3452A AND #T10070

### #ALT34018 Alternator Pulley Socket

NEW!

For R & R of the free-wheel pulley on the alternator. Used in conjunction with #S3054X-10 or the #S1054TXT-50 sockets.

COMPARABLE: #3400



### #S3054X-10 Head Bolt Socket



Used on VW/Audi head bolts that are 10mm, 12-pt. Most [1998–later] VW/Audi applications require the #3462 head bolt socket.

- 10mm
- 1/2" Drive
- 140mm Length

COMPARABLE: #3410



### #6355X-14 12-Point Socket

Ideal for use on rear brake caliper bolts on VW Jetta and Passat [2006–newer].

- 14mm
- 1/2" Drive
- 64mm Length



### #T10107B Long Allen Socket

Fits right hand stub shaft on 6-speed manual, 0A5 and 02N. Also applicable to VW 2.5L I5 (4v) intake manifold bolts, Jetta (BGP & BGQ) [2005–2007], Jetta (CBTA & CBUA) [2008–2014], Rabbit (BGP & BGQ) [2006–2007], Rabbit (CBTA & CBUA) [2008–2009], Beetle (BPR & BPS) [2006–2010] and Beetle (CBTA & CBUA) [2012–2014].

- 6mm
- 3/8" Drive
- 325mm Length

COMPARABLE: #T10107A



### #H2223LGT-30 Torx Socket Insert



Used for the R & R of the airbag from the steering wheel. Applicable to many VW models [1994–2002].

- T-30
- 70mm length



### #3424 Spreader



For the R & R of the front shock absorber tube from the wheel bearing housing on Audi A3 [2006–2008], TT [2000–2008] and A5 [2008–2009]; Volkswagen Golf, Beetle [1999–2008], Rabbit, GTI, Passat [2006–2008], Jetta [1999–2006], Tiguan [2008].

- 3/8" Drive



### #6300X-12 12mm, 12-Point Socket Bit

For the R & R of axle shaft bolts on newer VW Jetta and rear toe adjustment on Audi A6 [1999–newer]. Used for bell housing bolts with tight clearance on various VW models.



### #6300X-14 14mm, 12-Point Socket Bit

For R & R of Audi TT differential bracket and for bell housing bolts with tight clearance on various VW models.



### #6300X-16 12-Point Socket

Used for R & R of manual transmission drain plug. Applicable to Audi Q7, Porsche Cayenne and VW Touareg brake caliper bolts.

- 16mm Tamper-proof
- 1/2" Drive
- 60mm Length

COMPARABLE: #3357



### #6300 12-point Socket Bit Set



7-Piece set includes sockets:

- #6300XL-14 (long 14mm)
- #6300XL-8 (long 8mm)
- #6300XL-10 (long 10mm)
- #6300X-16 (16mm tamper-proof)
- #6300X-12 (12mm bit)
- #6300X-14 (14mm bit)
- #3424 (Spreader)



### #6300XL-8 12-Point Long Socket

Used for R & R of axle shaft bolts on VW Beetle, Jetta TDI and older VW/Audi models.

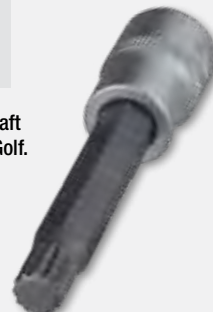
- 8mm
- 3/8" Drive
- 90mm Length



### #6300XL-10 12-Point Long Socket

Used for R & R of axle shaft bolts on VW Passat and Golf.

- 10mm
- 3/8" Drive
- 90mm Length



### #6300XL-14 12-Point Long Socket

Used for R & R of late model VW Eurovan axle shafts and ball joints. Also used on VW Touareg inner CV bolts.

- 14mm
- 1/2" Drive
- 140mm Length





## #6506 Axle Nut Set

Axle nut socket set covers all VW/Audi vehicles from [1996–2015] with a 14mm and 17mm allen as well as an 18mm, 24mm, 30mm, and 32mm 12-pt. socket. Applicable: Audi A4 [2002–2009], A4 [1996–2001], A6 [1999–2009]; VW Beetle, Cabrio, Golf, Jetta [1999–2015], Tiguan (4Motion) and Touareg [2009–2015].

- For [2009–newer] Audi A4 rear axle bolts, purchase #H985-19



## #6500X-30 12-Point Socket



Used For R & R of front axle nuts. Applicable: [1999–2005] VW Cabrio, Beetle, Golf and Jetta.

- 30mm
- 1/2" Drive
- 45mm Length

## #6500X-32 12-Point Socket



Used for R & R of front and rear axle nuts on [2004–2016] VW Touareg.

- 32mm
- 3/4" Drive
- 60mm Length

## #6500X-18 12-Point Socket



Used for the R & R of the rear axle bolts on VW Jetta and Golf [2006–2015].

- 18mm
- 1/2" Drive
- 95mm Length

COMPARABLE: #T10162

## #6500-14 Allen Socket



Applicable to Audi A4 Quattro front and rear axle bolts [1996–2001] and VW Passat rear axle bolts [1996–2002].

- 14mm
- 1/2" Drive
- 37mm Length

## #6500-17 Allen Socket



Applicable to Audi A4 (AWD) front & rear axle bolts [2002–2009], Audi A6 front axle bolts [1999–2009] and VW Passat front axle bolts [1998–2005].

- 17mm
- 1/2" Drive
- 38mm Length

## #3200X-4 4mm, 12-Point Screwdriver Bit



1/4" hex drive bit used for R & R of 4mm door handle screws. Applicable: VW Golf, Jetta, Passat and Beetle.

## #6500X-24 12-Point Socket



Used for R & R of front axle bolt. Applicable: VW Golf [2010–2013] and Tiguan [2009–2015].

- 24mm
- 1/2" Drive
- 38mm Length

COMPARABLE: #T10361

## #3200T-6 T-6 Torx Bit



Used for the R & R of door hinge fasteners on VW Touareg as well as Porsche Cayenne.

## #3200X-8 8mm, 12-Point Bit



Used for R & R of door hinge fasteners on late model VW using 8mm, 12-point bolts.



TOOLS FOR  
**HEAVY TRUCK**

**73-77**

CUMMINS /  
DETROIT DIESEL /  
FREIGHTLINER /  
INTERNATIONAL /  
MACK / VOLVO

73-77







## #CM3021 Cummins ISX 4 Wedge Timing Set

**NEW!**



Used for setting the geartrain timing on all Cummins ISX engines [2007-2016].

COMPARABLE: #3163021

- Set includes 4°, 6° (x2) and 7° Wedges and crank pin.
- Extra 6° wedge is included for [2007-2012] engines with two camshafts.
- Comes in custom plastic storage case.



## #CM369 Cummins ISX Gear Puller

**NEW!**



Used to pull the Injector and Valve cam gears on Cummins engines [2007-2016].

COMPARABLE: #3163069



## #VTC100 Coolant Drain Hose

**NEW!**

Used to drain the radiator on Volvo Heavy Duty Trucks. Applicable to Volvo Heavy Duty Trucks [2004-2018] and Mack Trucks [2007-2018].

COMPARABLE: #9996049





#HTLP100

**Universal Heavy Truck Diesel Engine Cylinder Wet Liner Puller****NEW!**

Used to remove the diesel cylinder wet liner from heavy trucks and heavy equipment for Caterpillar, Cummins, Detroit Diesel, Mercedes OM460 and Volvo D13 engines.

- Includes thinner blades for Detroit Diesel

**NOTE:** SHORTER CYLINDER LINERS MAY REQUIRE ADDITIONAL SPACING BLOCKS UNDER THE VERTICAL SUPPORTS TO INCREASE THE LENGTH OF PULL.





## #MO284 Oil Filter Wrench



Applicable to Dodge & Mercedes Sprinter with 3.0L V6 CRD engine [2007–2015].

- 84mm - 14 Flats
- Use with 22mm socket



California Residents: Proposition 65  
WARNING. See page 125 for info.

## #2175 Oil Filter Socket



Applicable to Mercedes Sprinter with 2.1L Turbo Diesel [2014–2017].

- 74.5mm - 14 Flats
- Use with 22mm socket



California Residents: Proposition 65  
WARNING. See page 125 for info.

## #M1020 Glow Plug Socket

Applicable to Dodge / Mercedes Sprinter.

- 10mm
- 3/8" Drive



## #OFAUD1000 Euro 1/4 Turn Oil Filler



Specifically designed to attach to the valve covers. When adding oil to the engine you don't have to worry about making a mess due to the internal baffle of the valve cover. Applicable: Dodge, Freightliner & Mercedes Sprinter Vans [2006–2013] 2.7L and 3.0L V6 CRD.



## #M820 Glow Plug Socket

Applicable to Dodge / Mercedes and Sprinter.

- 8mm
- 3/8" Drive



## #ATFBASIC Basic Driveline Filler

Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- Quick Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



ATF CONTAINER  
IS MADE IN USA

## #2017SACP Swivel Spring Clamp Pliers

**NEW!**



Used for various different spring clamp sizes found on fuel lines, radiator hoses, transmission cooler lines, etc. The rotating heads with unique grooves allow for 360° of adjustability for those hard to reach angles and locations.



### #FZ55 Tank Adapter



Cooling system pressure tester adapter. Applicable to Dodge / Freightliner / Mercedes Sprinter vans [2007–2019].

- M46 x 2.5 Threads



### #SPR886 Transmission Dipstick

Dodge / Freightliner Sprinter transmission dipstick [2002–2009].

COMPARABLE: #8863B



### #6300X-16 12-Point Tamper-Proof Socket

Used for Mercedes diesel truck flywheel bolts. Also available in our #6300 set.

- 16mm Tamper-proof
- 1/2" Drive
- 60mm Length

COMPARABLE: #904589001000



### #FZ32A Tank Adapter



For pressurizing cooling system. Applicable to Freightliner Cascadia [2008], Columbia [2008]; International 6.4L Diesel [2012], Navistar VT 365 and International with 466 engine [1994–2002].

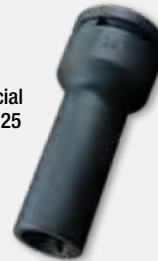
- M52 x 2.5 Threads

### #H2850-E24 Female Torx Socket



Used for R & R of head bolts on International and Man commercial vehicles which use MAN D20, D25 and D28 engines.

- E24
- 3/4" Drive
- 110mm Length



### #SPR0558 Glow Plug Pliers



For disconnecting the electrical connector that is attached to the glow plug used on Dodge Sprinter.

### #FZ35A Tank Adapter



For pressurizing cooling system. Applicable to Freightliner diesel trucks [2004] and Sterling trucks [2005].

- M52 x 2.5 Threads

### #FZ22 Tank Adapter



For pressurizing cooling system. Applicable to Volvo trucks V670 and VN430; Kenworth trucks [2007–2008].

- M48 x 3 Threads

### #FZ36 Cap Adapter



For testing pressure relief valve in cap. Applicable to Freightliner diesel trucks [2004] and Sterling trucks [2005].

- M52 x 2.5 Threads

### #FZ25 Tank Adapter



For pressurizing cooling system. Applicable to Volvo trucks [1978–2006] and Dodge Promaster 1500 [2014–2018].

- M47 x 3 Threads

### #6500T-100 Torx Socket

Used to remove parts to allow access for brake jobs on MAN Commercial Buses.

- T-100
- 3/4" Drive
- 60mm Length







## Are you tired of hearing this when you call other companies?

***"Our offices are located at..."***

*(Like you called to find out where they are!)*

***"Thank you for calling, if you know your party's extension..."***

*(Yea, right, I have my party's extension saved on a napkin from yesterday!)*

***"All of our agents are currently assisting other customers..."***

*(Does this mean I will wait 10 minutes, for a call center off shore to answer?)*

***"If you know the first or last name of the person you wish to speak to..."***

*(I see 150 customers on my tool route every week, and don't have time for this!)*

## At AST there are real people answering our phones!





## TOOLS LISTED BY **SPECIALTY AND APPLICATION**

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## #2017SACP

### Swivel Spring Clamp Pliers

**NEW!**



Used for various different spring clamp sizes found on fuel lines, radiator hoses, transmission cooler lines, etc. The rotating heads with unique grooves allow for 360° of adjustability for those hard to reach angles and locations.

## #CP2015

### Fuel Hose Clamp Pliers

Used to crimp fuel hose clamps.



## #M2010ACP

### Angled Fuel/EVAP Clamp Pliers

Used for the unlocking and locking of Fuel/EVAP hose CLIC R® clamps on newer vehicles.



## #SCP2014

### Spring Clamp Pliers

Pliers used for spring clamps found on fuel lines, radiator hoses, Honda transmission cooler lines, etc. Unique Grooves in Pliers Allow Grabbing Clamps from 2 Angles. The Overall Length is 8".



## #MW2050F

### Fuel Line Pliers

Fuel line pliers used for fuel lines with plastic snap-together connectors found on Volkswagen and Audi models and Mercedes (163) M-Class fuel filters and applicable to some Fiat, GM and Opel gas engine vehicles. Also works on late model Lexus and Toyota fuel/evap lines.



## #M2000CP

### Fuel / EVAP Clamp Pliers

Used for the unlocking and locking of Fuel/EVAP hose CLIC R® clamps on newer vehicles.



## #SPR0558

### Glow Plug Pliers


For disconnecting the electrical connector that is attached to the glow plug used on Dodge Sprinter.



**#WSC15**  
**Wire Soldering Clamp**



An ideal solution for holding wires in place during soldering. It is a second set of hands, clamping down onto wires from either side of the tool. Holds firmly and may be used for various gauges of wiring.

 California Residents: Proposition 65  
WARNING. See page 125 for info.



- Six inch flex cable for difficult to reach areas
- Spring-loaded, sliding claws clamp onto wires firmly
- Extra strong magnetic base provides ample support
- Frame and Claws Made in USA from Diecast Aluminum



**#WSFLCPLUS**  
**Flashlight Clamp with Magnetic**  
**Base and Flexible Cable**



Best for round medium to small flashlights that are .30lbs and lighter.



FLASHLIGHT NOT INCLUDED.



**#WSFLC**  
**Clamp**



Clamp used in conjunction with our #WSC15 Soldering Clamp Tool. This can be used to help mount your #WSC15 to "Non-Magnetic" surfaces while you are soldering or it can be used as a flashlight holder, giving you that extra set of hands.

**NOTE:** BEST FOR ROUND MEDIUM TO SMALL FLASHLIGHTS THAT ARE .30LBS AND LIGHTER.







## #3206 Door, Trim and Molding Tool Set

Set includes a T-25 long Torx screwdriver Shank Length 10 inches for accessing door handles on various Mercedes models. One trim spoon and one light duty hook is included for various interior jobs. Includes one pair of trim and cluster hooks. Three soft wedges are also included for various trim and molding jobs both for interior and exterior applications. Includes carrying pouch.



## #MW35 Hard Black Wedge Set



Constructed of strong black polycarbonate, this set of three wedge-style dash panel removal tools allows installers to remove oil pans, rocker covers and more, without causing damage.

- More Ridgid than the orange #MW 34 set and used on much heavier jobs

California Residents: Proposition 65  
WARNING: See page 125 for info.

## #3810 6-Piece File Set

Includes the following six files and a protective case: flat file, flat file/tapered front, round file, triangle file, square file and a half round / half flat file. Steel construction with rubber / plastic handles. Total length is 7.25" (including handle).



## #MW34 Soft Orange Wedge Set



Constructed of soft orange polyethylene, this set of three wedge-style dash panel removal tools allows installers to remove dash trim bezels and other vehicle interior moldings including door panels, without causing damage. Great for installing electronics.

- Three diverse sizes for various uses



## #ALSJ05 Aluminum Soft Jaw Vise Blocks

Pair of 5" soft jaws machined from aluminum. V-slots put a better grip on round objects. Each jaw has a small and large vertical slot. A large horizontal slot runs the length of each jaw. Strong magnets attach soft jaws firmly to 4", 5" and 6" vises. Applicable to many makes and models.



### #3900

#### 5-Lobe Tamperproof Bit Set

5 Lobe bits and a 1/4" drive. Includes: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 and T-50. Applicable to various BMW, Mercedes, VW and Volvo models.



### #ATFBASIC

#### Basic Driveline Filler

Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards.

ATF CONTAINER IS  
MADE IN USA



### #EU2009

#### Brake Bleeder Wrench

9mm brake bleeder wrench.



### #EU2011

#### Brake Bleeder Wrench

11mm brake bleeder wrench.



### #7200

#### Camshaft Pulley Holder



Applicable to Toyota, VW/Audi and Volvo. Comes with 3 sets of interchangeable pins. Pins may be threaded in two different locations, based on application access. Overall length 18". 12" spread between pins at tip of arms, when pivot arm is at 90 degrees. Holding pins are made in USA.





## #ATFSET15

### 15-Piece Driveline Filler System

Contains all AST adapters produced through 2018. Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made 8L container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards. Applicable: Audi, BMW, Ford, GM, Honda, Infiniti, Lexus, Mercedes, Mini, Nissan, Porsche, Subaru, Toyota, Volkswagen and Volvo.



ATF CONTAINER IS  
MADE IN USA

## #ATFSET9

### 9-Piece Driveline Filler System

Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made 8L container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards. Applicable: Audi, BMW, Ford, Honda, Lexus, Mercedes, Porsche, Toyota, Volkswagen and Volvo.

- For 724 transmission, see #M21250.
- For 725 transmission, see #ATFMB725.



ATF CONTAINER IS  
MADE IN USA

## #ATFEURO8

### 8-Piece Euro Driveline Filler

For filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made 8L container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards. Audi, BMW, Mercedes, Mini, Porsche, Volkswagen and Volvo.



ATF CONTAINER IS  
MADE IN USA

## #ATFVW5

### 5-Piece Driveline Filler for VW/Audi

Used for filling fluids in transmission and transfer cases (not suitable for use with fuels or solvents). U.S. made 8L container, made of UHDP (ultra high density polyethylene). Individual manufacturer sets are available as well as the individual adapters. Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards. Applicable TDI or 2.0L (turbo) gas models: [2002–2008] Audi A4 (AWD), [2005–2011] A6 (FWD) [V6]; [2007–2016] VW Eos, [2008–2016] Golf, R32, GTI, [2005.5–2016] Jetta, [2004–2016] Beetle, [2012–2015] Passat, [2009–2016] CC.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- includes 5 Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



ATF CONTAINER IS  
MADE IN USA

## #ATFMB

### Driveline Filler for Mercedes

For filling transmission fluid in Mercedes 722.9 automatic transmissions [2004–2018] using a M12 x 1.5 adapter (not suitable for use with fuels or solvents). Set includes pump, U.S. made 8L container, made of UHDP (ultra high density polyethylene), hose, shut-off valve and the #ATF 129 adapter. Additional adapters are available separately.

- For 724 transmission, see #M21250.
- For 725 transmission, see #ATFMB725.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- Quick Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



ATF CONTAINER IS  
MADE IN USA

INCLUDES #ATF 129 ADAPTER,  
OTHERS AVAILABLE INDIVIDUALLY

## #ATFFORD

### Driveline Filler for Ford

Used for filling Ford automatic transmissions (not suitable for use with fuels or solvents). Set includes pump, U.S. made 8L container, made of UHDP (ultra high density polyethylene), hose, shut-off valve and the #ATF 101 adapter. Applicable: [2004–2010] Ford Explorer, [2005–2010] Mustang, [2002–2005] Thunderbird.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- Quick Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



ATF CONTAINER IS  
MADE IN USA

INCLUDES #ATF 101 ADAPTER,  
OTHERS AVAILABLE INDIVIDUALLY



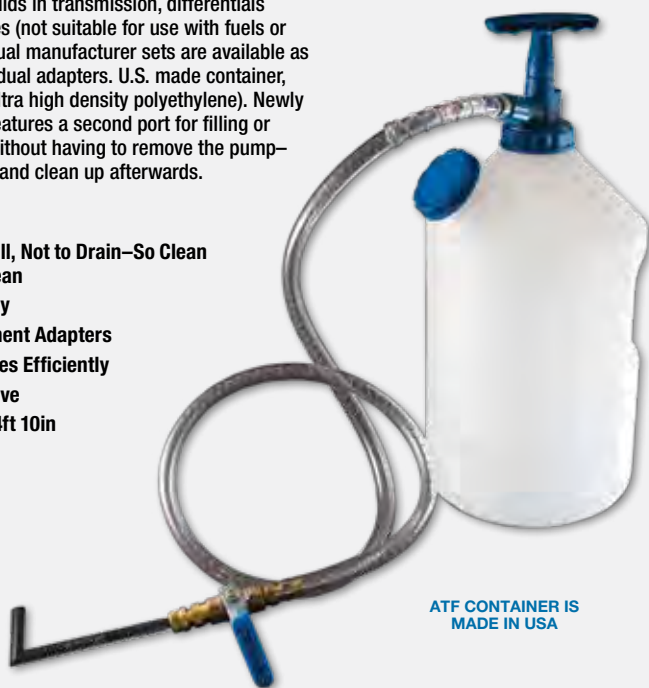


**Shown here:  
ATF VW 5 being used**

## #ATFBASIC Basic Driveline Filler

Used for filling fluids in transmission, differentials and transfer cases (not suitable for use with fuels or solvents). Individual manufacturer sets are available as well as the individual adapters. U.S. made container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- Quick Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



**ATF CONTAINER IS  
MADE IN USA**

## #ATFDRUMONLY Additional ATF Drum



8 Liter Drum Only for Driveline Filler. Used to store additional fluids that are not in use.



## #ATF101 ATF Adapter for Ford



Adapter used in conjunction with the ATF Filler System for Ford Explorer [2004-2010], Mustang [2005-2010] and Thunderbird [2002-2005].

- 1/8-27 NPT

## #ATF102 Universal ATF Adapter



Long, angled adapter used in conjunction with the ATF Filler System. Used on many applications.

## #ATF103 ATF Adapter for VW/Audi



Used for filling the VW Touareg transmission.

COMPARABLE: #VAG1924/1

## #ATF104 ATF Adapter for VW/Audi



Long, angled adapter used in conjunction with ATF Filler Systems.

COMPARABLE:  
ADAPTER INCLUDED WITH VW FACTORY #VAG1924

## #ATF105 ATF Adapter for VW/Audi and Mini



Transmission filling adapter used on VW/Audi and Mini with "AISIN" transmission.

- M10 x 1.0 Threads

COMPARABLE: #VAS6262/2

## #ATF17CVT ATF Adapter for VW/Audi CVT



Driveline adapter for VW/Audi CVT transmission.

- M22 x 1.5 Threads

COMPARABLE: #VAS5162

## #ATFSU118 Subara Filling Adapter



Used for filling the front Differential on Subaru Crosstrek [2012-2017], Forester (non turbo) [2014-2017], Impreza (non turbo) [2012-2017], Legacy 4 cyl. [2013-2017] and Outback (4 cyl.) [2013-2017].

- M18 x 1.5 Threads

## #ATF108V ATF Adapter for Volvo



Driveline filler adapter. Applicable to some Volvo models [2007-2018] 6 speed and 8 speed Automatic transmissions with out a fluid dipstick. Used to fill with using the 5/16" x 24 threaded plug.

- 5/16-24 Threads

## #ATFTOY118 ATF Adapter for Toyota



Adapter for some Lexus models; 4Runner [2005-2010], FJ Cruiser [2007-2010], Sequoia [2005-2010], Tacoma [2005-2010] and Tundra [2005-2010].

- M18 x 1.5 Threads

COMPARABLE:  
#00002-11103-02

## #ATF16DSG ATF Adapter for DSG



Driveline adapter for VW/Audi DSG transmission.

- M24 x 1.5 Threads

COMPARABLE: #VAS6262A

## #ATF129 ATF Adapter for Mercedes



Mercedes adapter for 722.9 transmissions [2004-2018].

- M12 x 1.5 Threads
- For 725 Transmissions, see #ATFMB725

## #ATF180 ATF Adapter for Infiniti



Adapter for Infiniti models with 7-speed automatic transmissions [2008-2017].

- M8 x 1.0 threads

## #ATFSU100 Universal ATF Attachment

This flexible adapter is used to fit into hard to reach applications where there is at least a 10mm internal diameter opening to fit into.



## #ATF175 GM ATF Adapter for GM



Adapter for 6L80/6L90 transmissions found in Cadillac models [2003-2014]; Chevy models [2006-2016]; GMC Yukon Denali [2007]; Hummer H2 [2008] and Pontiac G8 [2008].

- M12 x 1.75 Threads

COMPARABLE: #DT-47784

## #ATF125NIS ATF Adapter for Nissan



Adapter used to fill the CVT transmission in Nissan Altima [2014-2016], Pathfinder [2013-2017], Rogue [2014-2017], Sentra [2017] and Versa [2013-2017].

- M12 x 1.25 Threads

COMPARABLE:  
NISSAN #KV31103950





## #OFFM2012 Oil Funnel for Ford and Mazda



Used on newer Ford and Mazda models with 4 cylinder engines. Applicable to Ford EcoSport [2018], Edge [2012–2018], Escape [2008–2016], Expedition [2016–2018], Explorer [2012–2015], F-150 [2016–2018], Focus [2007–2018], Fusion [2013–2018], Mustang [2018]; Jaguar XF [2013–2015]; Land Rover LR2 [2015], Range Rover Evoque [2012–2015]; Mazda 3 [2006–2015], 5 [2005–2015], CX-5 [2013–2015], Mazdaspeed 3 [2007–2015], Mazdaspeed 6 [2005] and MX-5 Miata [2006–2015].

- DO NOT USE BRAKE CLEAN

**NOTE:** MAY NOT FIT SOME APPLICATIONS WHERE THE FIRE WALL COWL DOESN'T PROVIDE CLEARANCE FOR ATTACHMENT OF FUNNEL. USE #FUN14KIT FOR THESE APPLICATIONS.



**All AST Funnels  
are Made in USA**

**No Mess Fill  
Every Time**

**Made of  
Strong ABS Plastic  
or Polycarbonate**

**DO NOT  
USE BRAKE CLEAN!**

**Using Brake Parts  
Cleaner on Plastic Voids  
Warranty**

## #OFSU1042 Subaru Oil Funnel



Fits all Subaru models with threaded oil cap (except Tribeca). Applicable to Subaru BRZ, Impreza, Impreza WRX, Impreza WRX STI, Legacy, Outback and Scion FR-S [2000–2018].

- DO NOT USE BRAKE CLEAN



## #OFSU42 Subaru Adapter



For use with our #FUN14KIT or #OFKIT. We left space in the #FUN14KIT to accommodate this adapter. Fits all Subaru models with threaded oil cap (except Tribeca). Applicable to Subaru BRZ, Impreza, Impreza WRX, Impreza WRX STI, Legacy, Outback and Scion FR-S.

- DO NOT USE BRAKE CLEAN

## #OFGMRD08 Ford and GM Oil Funnel



Applicable to various Aston Martin, Buick, Cadillac, Chevrolet, Ford, GMC, Hyundai, Jaguar, Land Rover, Mazda, Mercury, Pontiac and Saab models.

- DO NOT USE BRAKE CLEAN



## #OFAAGM Angled Funnel Extension



Extension for our #OFGMRD08 Funnel. Adds coverage and access where normal funnels will not fit. Applicable to Chevrolet Silverado [2013–2014]; Ford F-150 5.0L [2015], F-250 6.7L [2016]; GMC Sierra [2013–2014].

ONLY USED IN CONJUNCTION WITH #OFGMRD08 OR #OFGMFORD FUNNELS.

- DO NOT USE BRAKE CLEAN



### **WARNING:**

These products can expose you to chemicals including Acrylonitrile & Styrene, which are known to the State of California to cause cancer and Bisphenol A (BpA) & Butadiene, which is known to the State of California to cause birth defects or other reproductive harm.

#OFCRY36  
Chrysler Oil Funnel



Oil funnel for Chrysler and Dodge models equipped with the 3.6L engine. Made of strong polycarbonate. Creates a custom fit to valve covers and filler necks. Applicable: Chrysler Town and Country; Dodge Avenger, Challenger, Charger, Dart, Durango, Grand Caravan, Journey and Jeep Wrangler [2011–2017].

- DO NOT USE BRAKE CLEAN



#OFHON1033  
Oil Funnel



Fits various Acura, Ford, Honda, Jaguar, Jeep Land Rover, Mazda, and Nissan models. Applicable to Dodge Caravan [2010], Charger V8 [2017]; Fiat 500 [2012–2016]; Ford F-250 & -350 Power Stroke engines (6.9L, 7.3L, 6.0L and 6.4L); Honda Accord Civic, CR V, Element, Fit, Odyssey, Pilot, S2000 [1998–2018]; Jaguar 4.2L [2003–2009]; Jeep Wrangler [2001–2011], Land Rover Defender, Discovery, Range Rover [2002]; Mazda 2 [2013]; Nissan Altima [2016], Maxima [2008–2016], Pathfinder [2010–2016], Rogue [2012–2016], and Sentra [2013–2016]; RAM Trucks 1500 [2012–2017].

- DO NOT USE BRAKE CLEAN
- For Honda/Acura SUV's and VAN's, the funnel needs to be used in conjunction with our #OFH33 Angled Extension.



#OFTOY1038  
Threaded Toyota Oil Funnel



Applicable to all Lexus, Scion (except FR-S) and Toyota models with a threaded engine oil fill cap. For Toyota and Lexus 1/4 turn style oil caps, see #OFTOY1001.

- DO NOT USE BRAKE CLEAN

**NOTE:** FOR TOYOTA PRIUS AND YARIS, THE FUNNEL NEEDS TO BE USED IN CONJUNCTION WITH OUR #OFT38 ANGLED EXTENSION



#FUNCRY36  
Adapter for 3.6L Chrysler, Dodge and Jeep



For use with our #FUN14KIT or #OFKIT. Applicable: Chrysler Town and Country; Dodge Avenger, Challenger, Charger, Dart, Durango, Grand Caravan, Journey and Jeep Wrangler [2011–2017].

- DO NOT USE BRAKE CLEAN

#OFH33  
Funnel Extension for Honda and Acura



Oil funnel extension for our #OFHON1033 oil funnel. Adds coverage and access where normal funnels do not fit. Applicable to Acura MDX; Honda Pilot, Odyssey and Ridgeline.

- DO NOT USE BRAKE CLEAN

**NOTE:** USED IN CONJUNCTION WITH #OFHON1033 OR OFHON33 FUNNELS.

#OFT38  
Funnel Extension for Toyota



Oil funnel extension for our #OFTOY1038 oil funnel. Applicable to Toyota Prius and Yaris. Adds coverage and access where normal funnels do not fit.

- DO NOT USE BRAKE CLEAN

**NOTE:** NOTE: MUST BE USED IN CONJUNCTION WITH #OFTOY1038 OR OFTOY38 FUNNELS.



**WARNING:**

These products can expose you to chemicals including Acrylonitrile & Styrene, which are known to the State of California to cause cancer and Bisphenol A (BpA) & Butadiene, which is known to the State of California to cause birth defects or other reproductive harm.





## #FUN14KIT 6-Piece Custom Oil Funnel Set



Includes funnel and five adapters to fit over a hundred models including Acura, Aston Martin, Cadillac, Chevrolet, Dodge, Ford, GMC, Honda, Hyundai, Jaguar, Land Rover, Lotus, Lexus, Mazda, Nissan, Pontiac, Saab, Scion and Toyota. When combined with our other adapters, the 45 degree elbow extension allows access where funnels otherwise do not fit.

- DO NOT USE BRAKE CLEAN
- Includes five adapters to fit over a hundred models
- 45 Degree elbow extension allows access to where the funnel would otherwise not fit
- Subaru, Chrysler/Dodge/Jeep 3.6L and Euro adapters may be purchased separately

## #OFHD419 Oil Funnel for Harley-Davidson



For the "push-in style" oil fill caps for Harley-Davidson Touring models [1999–2006].

- DO NOT USE BRAKE CLEAN



## #OFHD35 Oil Funnel for KIA & Harley-Davidson



Applicable to Harley- Davidson Dyna [2007– 2016] and Touring [2007– 2017]; Kia Forte [2013– 2015], Optima [2016], Rio [2013–2016], Sedona [2015– 2016], Sorento [2011–2016], Soul [2013–2015] and Sportage [2014–2016].

- DO NOT USE BRAKE CLEAN



### WARNING:

These products can expose you to chemicals including Acrylonitrile & Styrene, which are known to the State of California to cause cancer and Bisphenol A (BpA) & Butadiene, which is known to the State of California to cause birth defects or other reproductive harm.

#FUN14EURO  
FUN14KIT Euro Adapter



For use with our #FUN14KIT. Specifically designed to attach to the valve covers on various Audi, BMW, Mercedes and Volkswagen models. When you're adding oil to the engine you don't have to worry about making a big mess due to the internal bafe of the valve cover.

- May not fit applications where cowl causes interference



#OFAUD1000  
Euro 1/4-Turn Oil Filler



Specifically designed to attach to the valve covers. When you're adding oil to the engine you don't have to worry about making a big mess due to the internal bafe of the valve cover. Applicable to Audi, BMW; Dodge Sprinter; Mercedes; Porsche Cayenne and Panamera; VW/Audi 1.4L, 1.8L, 1.9L TDI, 2.0T, 2.8L, 3.0L, 3.2L, 3.6L and 4.2L engines; and Volvo 2.5L engines. Also fits Teledyne 550 and 520 engines found in Beechcraft and Cessna aircraft.

- May not fit applications where cowl causes interference.



**NOTE:** NOT APPLICABLE TO: [2012-2013] AUDI A8L 6.3L [W12] (12-CYL.) ENGINE. FOR [2015-2016] TDI AND HORIZONTALLY MOUNTED 2.0 TURBO, SEE FUNNEL #OFVW2013.

#OFVW2013  
1/4 Turn Oil Funnel for VW/Audi



1/4 Turn funnel with four slots. Custom fit into valve cover for no mess filling of oil. Applicable to VW/Audi models with 1.8L and 2.0L turbo engines [2014-2018].







# OIL FILTER SOCKETS & WRENCHES

## #2101 7-Piece Oil Filter Wrench Socket Set



Set contains oil filter wrench sockets for many domestic and foreign applications. Covers all Mercedes-Benz applications. The 27mm, 32mm and 36mm hex sizes cover VW/Audi, BMW, newer Mercedes engines, and GM 2.2 L Ecotec engines. Covers Ford Escape Hybrid and Ford OEM #FL 910 and #FL 793. Covers Chevrolet 2.2L and 2.4L engines [2007–2014], Dodge Sprinter and Volvo models. The four, cup-style wrenches cover many VW, BMW, Toyota and Mazda 3.

California Residents: Proposition 65  
WARNING: See page 125 for info.



## #2124 Oil Filter Socket



Used for the R & R of the oil filter housing cap on BMW, Chrysler, Dodge, Jeep with 3.6L, Saturn and Chevy 4-cyl. EcoTec engines.

- 24mm - 6 Flats
- 3/8" Drive

## #2127 Oil Filter Socket



Applicable to various models from Dodge Dart, Fiat, Hyundai, Kia and Mini models.

- 27mm - 6 Flats
- 3/8" Drive

## #2132 Oil Filter Socket

Applicable to various models from Audi, BMW N57 diesel engine, Chevrolet 2.2L and 2.4L engines [2007–2014], Maserati, Saab, Saturn, and Volkswagen.

- 32mm - 6 Flats
- 3/8" Drive



## #2136 Oil Filter Socket

BMW M52, M60, M62, M70 and M73 engines; Ford F-250 and F-350 6.0L turbo diesel [2004]; Mercedes OM604, 605 and 606; Mini Cooper/S [2002–2006]; Volkswagen Corrado, Eurovan VR6, Golf R32 3.2L VR6, Jetta 2.0L Turbo [2006], Jetta 2.8L VR6, Passat 2.8L VR6, Touareg and Volvo models with 36mm hex molded into the oil filter cap [2007–newer].

- 36mm - 6 Flats
- 3/8" Drive



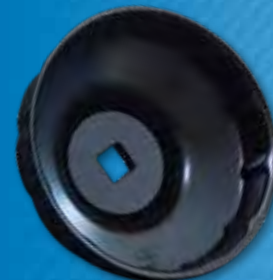
## #23236 32 x 36mm Oil Filter Socket

Double sided 3/8" drive. Applicable to Audi Q3 and S3 2.0L Turbo [2015–2016], A6 3.0L [2014–2016], Q7 3.0L [2011–2016], Q7 3.6L [2007–2010]; BMW 335d and X5 35d [2009–2011], BMW 6 and 8 cyl. engines [1994–2005]; Chevy Cobalt, Impala and Malibu with 2.2L / 2.4L engines [2007–2014]; Porsche models [2009–2016]. VW TDI [2011–2016], Touareg [2009–2016] and VR6 motors and Volvo models [2007–2014].

DOUBLE-SIDED



## #BM1276 Oil Filter Wrench



Used ON BMW i3 "Range Extender" engine [2014–2018] and for R & R of oil filter on BMW motorcycles [2007–2016] with oil filter #11 42 7 673 541. Also for R & R of 12 flute Mercedes OEM oil filters.

- 76mm - 12 flutes
- 3/8" Drive

**NOTE:** SOME NEW BMW MOTORCYCLES COME FROM FACTORY WITH FILTER ENDING IN '779'



### #M0219 Oil Filter Wrench



Applicable to Audi, BMW motorcycle, Dodge, Ford, Mazda, Mercedes, Porsche, Toyota and VW.

- 74mm - 14 Flats
- Use with 22mm socket

**COMPARABLE:** MERCEDES #103 589 02 09 00

**WARNING:** California Residents: Proposition 65  
WARNING. See page 125 for info.



### #2175 Oil Filter Wrench



Applicable to various Mercedes and Volkswagen models. Also Fits newer Sprinter and Mercedes models with 2.1L turbo diesel engine [2015-2018].

- 74.5mm -14 Flats
- Use with 22mm socket

**WARNING:** California Residents: Proposition 65  
WARNING. See page 125 for info.



### #SU8015 Oil Filter Wrench

Applicable to Hyundai 4cyl. [1992-2012]; KIA [2001-2012]; Scion FR-S [2013-2016]; Subaru BRZ [2013-2018], Forester [2016-2018], Impreza WRX [2016-2018], Legacy (6-cyl.), Outback and Tribeca.

- 80mm - 15 Flats
- 3/8" Dive

**FITS NAPA GOLD OIL FILTER #1334**



### #JAS6514 Oil Filter Wrench

Applicable to Honda vehicles [1987-2018]; Infiniti vehicles [2004-2018]; Jaguar F-Pace [2017], XE [2017], XF [2017]; Land Rover Evoque [2018]; Kawasaki Motorcycles [1990-2009]; Nissan 350Z [2002-2009], 370Z [2010-2018], Altima [1997-2018], Armada [2004-2018], Cube [2009-2014], Frontier [1997-2018], GT R [2008-2018], Juke [2011-2016], Maxima [1994-2018], Murano [2002-2018], Pathfinder [1995-2018], Quest [2006-2016], Rogue [2008-2018], Sentra [2001-2018], Titan [2003-2018], Versa [2006-2018] and Xterra [2002-2015]. Also works on Kawasaki factory filter #16097-0003 and Yamaha factory filter #5GH-13440-00. Also works on Powersports vehicles that utilize "HF303" oil filters including Honda, Polaris, Kawasaki and Yamaha.

- 65mm - 14 Flats
- 3/8" Drive



### #M0284 Oil Filter Wrench



Used on Mercedes 3.0L V6 CRD (Diesel) engines found in Jeep Grand Cherokee [2007-2008]; Mercedes Bluetec engines in E 320 [2007-2009], E 350 [2011-2013], GL 320 [2009], GL 350 [2010-2013], ML 320 [2009], ML 350 [2010-2014], R 320 [2009], R 350 [2010-2013], S 350 [2012-2013] and Sprinter [2007-2015].

- 84mm - 14 Flats
- Use with 22mm socket

**WARNING:** California Residents: Proposition 65  
WARNING. See page 125 for info.



### #V410 Oil Filter Wrench



Applicable to BMW models with N52, N54, N55 and N63 engines [2006-2017]. Fits all Volvo Models [1999-2007] (except 2005 40 and 50 Series). For [2015-newer] Volvo, see #VB414.

- 86.5mm - 16 Flats
- Use with 22mm socket

**COMPARABLE:** BMW #119240 AND VOLVO #9995679

**WARNING:** California Residents: Proposition 65  
WARNING. See page 125 for info.



### #TOY647LG Oil Filter Wrench

**NEW!**



Applicable to Toyota V6 and V8 engines with canister style filter cartridge [2005-2019]. Does not fit on Sequoia.

- 64mm - 14 Flats
- 3/8" Drive





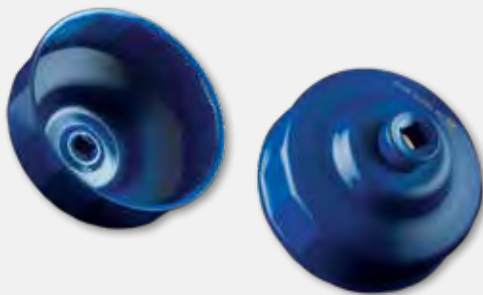
# OIL FILTER SOCKETS & WRENCHES

## #JA19015

### Oil Filter Wrench

Oil filter wrench for Jaguar and Land Rover models with the 3.0L v6 and 5.0L v8 engines [2010-2017].

- 90mm - 15 Flats
- 3/8" Drive



## #VB414

### Oil Filter Wrench for Volvo



Fits Volvo 2.0L turbo. Applicable to Volvo S60, S80, V60, XC60 and XC70 [2015-2019].

- 16 Flats
- Use with 22mm socket



California Residents: Proposition 65  
WARNING: See page 125 for info.

## #TOY300

### Oil Filter Wrench Set for Toyota

Toyota 3-piece oil filter wrench set. With the #TOY300 you have every gas engine Toyota and Lexus model covered [1980-2019].

- Includes #TOY640, #TOY730 and #M0219.



California Residents: Proposition 65  
WARNING: See page 125 for info.

## #TOY730

### Oil Filter Wrench

Applicable to Lexus ES 250 [1990-1991], ES 300[1992-2003], ES 300h [2013], ES 330 [2004-2006], GS 300 [1993-2005], GS 400 [1998-2000], GS 430 [2001-2004], GX 470 [2004-2009], IS 300 [2001-2005], LS 400 [1990-2000], LS 430 [2001-2006], LX 450 [1996-1997], LX 470 [1998-2007], RX 300 [1999-2003], RX 330 [2004-2006], RX 400h [2006-2008], SC 300 [1992-2000], SC 400 [1992-2000], SC 430 [2002-2010]; Toyota 4Runner [2003-2009], FJ Cruiser [2007-2009], Land Cruiser [1993-2007], Sequoia [2001-2009], Tacoma [2005-2013] and Tundra [2000-2010].

- 73mm - 14 Flats
- 3/8" Drive or Use 24mm or 15/16" socket



California Residents: Proposition 65  
WARNING: See page 125 for info.

## #HD1674

### Oil Filter Wrench for Harley-Davidson



Oil filter wrench for [1980-2016] Harley-Davidson motorcycles with a spin on oil filter.

- 74mm - 14 Flats
- Use with 22mm socket

California Residents: Proposition 65  
WARNING: See page 125 for info.



## #TOY640

### Oil Filter Wrench



Applicable to all Lexus / Scion /Toyota models with paper cartridge-style filter in Lexus 200h [2011-2016], ES 350 [2007-2018], GS 300 [2006-2018], GS 350 [2007-2018], GS 450h [2007-2018], GS 460 [2008-2011], GX 460 [2010-2018], HS 250h [2010-2013], IS 250 [2006-2010], IS 250 C [2010-2016], IS 350 [2006-2018], IS 350 C [2010-2016], IS F [2008-2014], LS 460 [2007-2016], LS 600h [2008-2016], LX 570 [2008-2018], RX 350 [2007-2018], RX 450h [2010-2018]; Scion tC [2005-2016], xA [2004-2006], xB [2004-2016], xD [2008-2013]; Toyota 4Runner [1985-2019], Avalon [1995-2019], Camry [1983-2019], Corolla [1983-2019], Echo [2000-2005], FJ Cruiser [2010-2014], Highlander [2001-2019], Prius [2001-2019], Matrix [2003-2014], MR2 [1985-2005], Paseo [1992-1997], RAV4 [1996-2019], Sequoia [2009-2016], Sienna [2007-2019], Solara [1999-2009], Tundra [2007-2019], Venza [2009-2016] and Yaris [2006-2019].

- 64mm - 14 Flats
- Use with 24mm or 15/16" socket

**COMPARABLE:** #09228-06501 AND #09228-06500-02

California Residents: Proposition 65  
WARNING: See page 125 for info.



**#M0721**  
**Engine Oil Dipstick**

Used for checking engine oil level on Mercedes models with 112,113, 137 and 271 engines that do not have an engine dipstick.

COMPARABLE:  
MERCEDES #120 589 07 21 00



DETAILED VIEW



**#AU40178**  
**Engine Oil Dipstick**

Applicable to Audi A4 [2009-2017], A5 [2009-2015], A6 [2009-2015], A8 [2011-2014], Q5 [2013-2015], RS5 [2013-2015], S4 [2010-2015], S5 [2009-2012], S6 [2013-2015], S7 [2013-2015]; Porsche Cayenne S Hybrid [2011-2014], Panamera S Hybrid [2012-2014]; Volkswagen Touareg [2011-2014].

COMPARABLE: #T 40178



DETAILED VIEW

**#SPR886**  
**Transmission Dipstick for Sprinter and Crossfire**



Used on Dodge / Freightliner Sprinter [2002-2009] and Chrysler Crossfire [2004-2008].

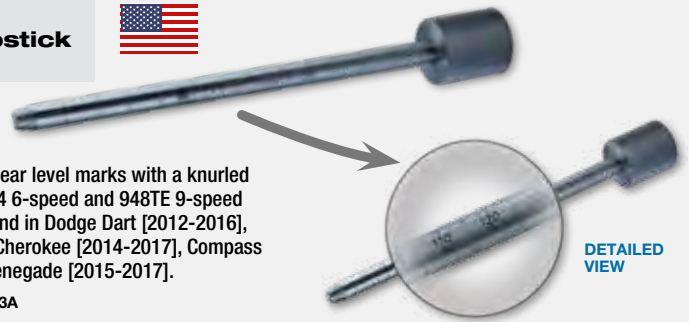
COMPARABLE: CHRYSLER #8863B

**#CRY323**  
**Transmission Dipstick**



Stainless steel design and clear level marks with a knurled handle. Applicable to all 6F24 6-speed and 948TE 9-speed automatic transmissions found in Dodge Dart [2012-2016], Fiat 500 [2012-2017]; Jeep Cherokee [2014-2017], Compass [2014], Patriot [2014] and Renegade [2015-2017].

COMPARABLE: MOPAR #10323A



DETAILED VIEW

**#M7226**  
**Transmission Dipstick for Mercedes 722.6**



Used for checking ATF level in Mercedes models with 722.6 transmission [1997-2006]; Freightliner Sprinter [2010-2016] and Jaguar models with W5A580, Jaguar XKR [2000-2002].

COMPARABLE: JAGUAR #307-379 AND  
MERCEDES #140 589 15 21 00.

**#M21250**  
**Transmission Dipstick**



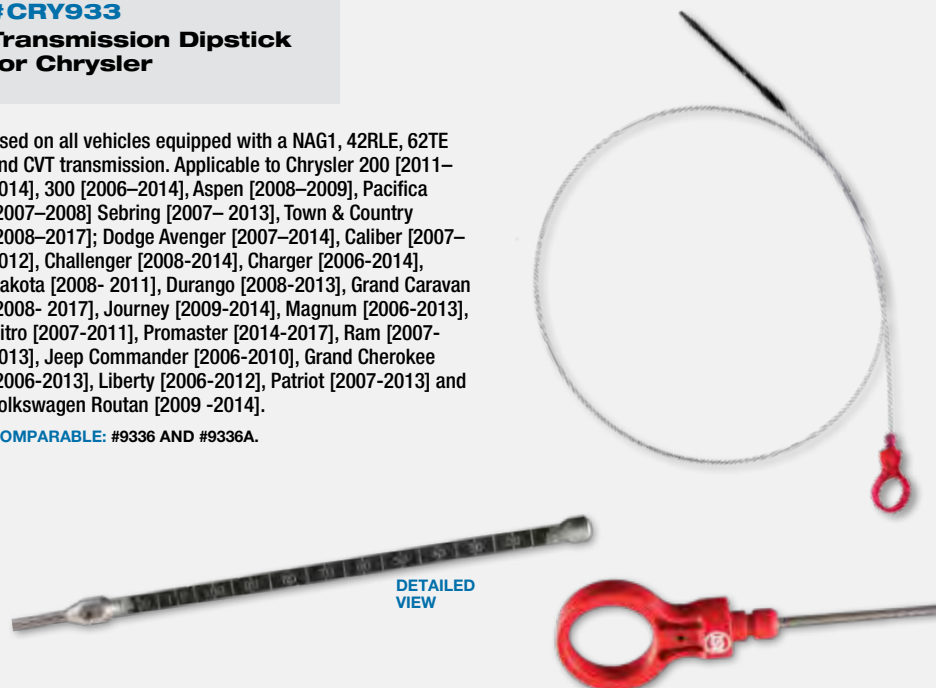
Used for checking ATF level in Mercedes CLA and GLA models with the 724 Transmission [2014-2017].

COMPARABLE: #168589012100

**#CRY933**  
**Transmission Dipstick for Chrysler**

Used on all vehicles equipped with a NAG1, 42RLE, 62TE and CVT transmission. Applicable to Chrysler 200 [2011-2014], 300 [2006-2014], Aspen [2008-2009], Pacifica [2007-2008] Sebring [2007-2013], Town & Country [2008-2017]; Dodge Avenger [2007-2014], Caliber [2007-2012], Challenger [2008-2014], Charger [2006-2014], Dakota [2008-2011], Durango [2008-2013], Grand Caravan [2008-2017], Journey [2009-2014], Magnum [2006-2013], Nitro [2007-2011], Promaster [2014-2017], Ram [2007-2013], Jeep Commander [2006-2010], Grand Cherokee [2006-2013], Liberty [2006-2012], Patriot [2007-2013] and Volkswagen Routan [2009-2014].

COMPARABLE: #9336 AND #9336A.



DETAILED VIEW





## #6300 12-point Socket Bit Set for VW/Audi

7-Piece set includes sockets:

- #6300XL-14 (long 14mm)
- #6300XL-8 (long 8mm)
- #6300XL-10 (long 10mm)
- #6300X-16 (16mm tamper-proof)
- #6300X-12 (12mm bit)
- #6300X-14 (14mm bit)
- #3424 (Spreader)



## #6300X-12 12mm, 12-Point Socket Bit

For the R & R of axle shaft bolts on newer VW Jetta and rear toe adjustment on Audi A6 [1999– newer]. Used for bell housing bolts with tight clearance on various VW models.



## #6300X-14 14mm, 12-Point Socket Bit

For R & R of Audi TT differential bracket and for bell housing bolts with tight clearance on various VW models.



## #6300XL-8 12-Point Long Socket

Used for R & R of axle shaft bolts on VW Beetle, Jetta TDI and older VW/Audi models.

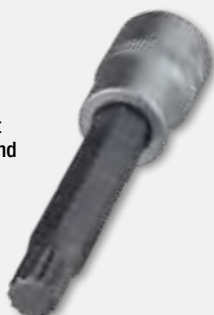
- 8mm
- 3/8" Drive
- 90mm Length



## #6300XL-10 12-Point Long Socket

Used for R & R of axle shaft bolts on Volkswagen Golf and Passat.

- 10mm
- 3/8" Drive
- 90mm Length



## #3462 Head Bolt Socket



Applicable to most VW/Audi engines [1998–newer].

- #10 Polydrive
- 1/2" Drive
- 155mm Length

**COMPARABLE:**  
#3452, #3452A AND #T10070



## #3424 Spreader



For the R & R of the front shock absorber tube from the wheel bearing housing. Applicable to Audi A3 [2006–2008], TT [2000–2008] and A5 [2008–2009]; Volkswagen Golf, Beetle [1999–2008], Rabbit, GTI, Passat [2006–2008], Jetta [1999–2006], Tiguan [2008].

- 3/8" Drive



## #6300X-16 12-Point Tamperproof Socket

Used for R & R of manual transmission drain plug. Applicable: Audi Q7, Porsche Cayenne and VW Touareg brake caliper bolts.

- 16mm Tamper-proof
- 1/2" Drive
- 60mm Length

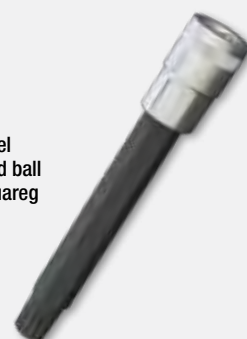
**COMPARABLE:** #904 589 00 10 00



## #6300XL-14 12-Point Long Socket

Used for R & R of late model VW Eurovan axle shafts and ball joints. Also used on VW Touareg inner CV bolts.

- 14mm
- 1/2" Drive
- 140mm Length



### #6355X-14 12-Point Socket

Ideal for use on rear brake caliper bolts on VW Jetta and Passat [2006– newer].

- 14mm
- 1/2" Drive
- 64mm Length

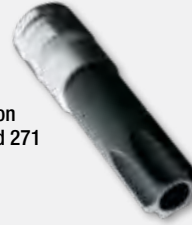


### #6500TPT-100 Torx Socket

Used to remove and replace the camshaft adjuster central valve on Mercedes 274, 276, 270, 278 and 271 engines [2012–2016].

- T-100 Tamper-proof
- 1/2" Drive
- 95mm Length

COMPARABLE: MERCEDES #271589001000



### #6500X-18 12-Point Socket

Used for R & R of the rear axle bolts on VW Jetta and Golf [2006–2015].

- 18mm
- 1/2" Drive
- 95mm Length

COMPARABLE: #T10162



### #6500TL-80 Torx Socket

**NEW!**

Used on BMW for R & R of driver's side wiper arm on E31, E38 and E39 chassis. Also fits Lamborghini wheel lug bolts on Gallardo models.

- T-80 Tamper-proof
- 1/2" Drive
- 100mm Length



### #6500T-100 Torx Socket

Used to remove parts to allow access for brake jobs on MAN Commercial Buses.

- T-100
- 3/4" Drive
- 60mm Length



### #6500X-24 12-Point Socket

For R & R of front axle bolt. Applicable: VW Golf [2010–2013] and Tiguan [2009–2015].

- 24mm
- 1/2" Drive
- 38mm Length

COMPARABLE: #T 10361



### #6500-14 Allen Socket

Applicable to Audi A4 Quattro front & rear axle bolts [1996–2001] and VW Passat rear axle bolts [1996–2002].

- 14mm
- 1/2" Drive
- 37mm Length



### #6500-17 Allen Socket

Applicable to Audi A4 (AWD) front & rear axle bolts [2002–2009], Audi A6 front axle bolts [1999–2009] and VW Passat front axle bolts [1998–2005].

- 17mm
- 1/2" Drive
- 38mm Length



### #6500X-30 12-Point Socket

Used For R & R of front axle nuts. Applicable: [1999–2005] VW Cabrio, Beetle, Golf and Jetta.

- 30mm
- 1/2" Drive
- 45mm Length



### #6506 Axle Nut Socket Set for VW/Audi

6-Piece set includes sockets:

- #6500-14
- #6500-17
- #6500X-18
- #6500X-24
- #6500X-30
- #6500X-32

NOTE: FOR [2009–NEWER] AUDI A4 REAR AXLE BOLTS, ORDER #H985-19.



### #6500X-32 12-Point Socket

Used for R & R of front and rear axle nuts on [2004–2016] VW Touareg.

- 32mm
- 3/4" Drive
- 60mm Length







## #100-30A

### 12-Point Deep Socket

Used for R & R of transmission drive shaft flange nut and pinion shaft flange nut of differential. Applicable: many BMW, Mercedes and Toyota models with 30mm, 12pt axle nuts.

- 30mm
- 1/2" Drive
- 85mm Length
- Thin-walled



## #3900

### 5-Lobe Tamperproof Bit Set

5 Lobe bits and a 1/4" drive. Includes: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 and T-50. Applicable to various BMW, Mercedes, VW and Volvo models.



## #M8160

### Extra Long 8mm Socket



Used for R&R of rear tail light assembly on Mercedes models [2017-2018].

- 1/4" Drive
- 160mm Length



## #BMW10160

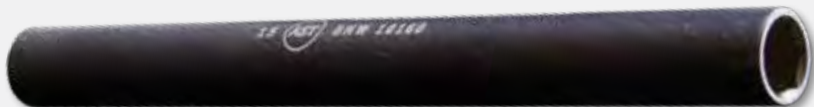
### Extra Long 10mm Socket



Applicable to Mercedes-Benz rear bumpers and used for R & R of the ground connector screw for the injector on BMW N54 engines.

- 1/4" Drive
- 160mm Length

FOR TAIL LIGHT ASSEMBLY ON NEWER MERCEDES, ALSO ORDER M8160



## #BMW11850

### Head Bolt Socket for BMW



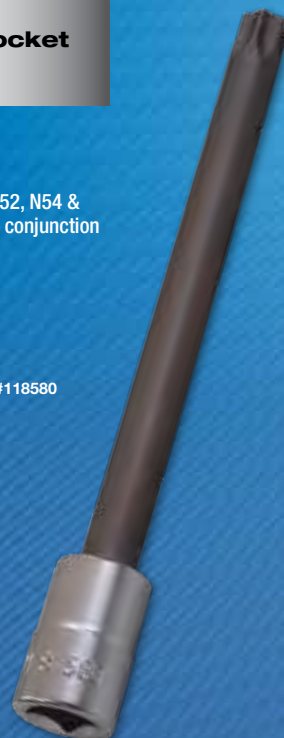
Used on 3 of the head bolts on BMW N52, N54 and N55 engines. For all of the remaining head bolts on these engines use our #BMW11860.

- T-50
- 1/2" Drive
- 165mm Length

COMPARABLE: #114420

## #BMW11860

### Head Bolt Socket for BMW



Used on BMW N51, N52, N54 & N55 engines. Used in conjunction with #BMW11850.

- T-60
- 1/2" Drive
- 195mm Length

COMPARABLE: BMW #118580

## #BFLT60 Machined T-60 Socket

Special machined, long T60 Torx socket is machined for clearance to access the rear wheel bearing bolts without hitting the ABS rotor sensor on Ford Edge/ Lincoln MKX. Also used for R and R of flywheel bolts on BMW E34 and E39 [V8] 4.0L 4.4L & 5.0L with standard transmission.

- 1/2" Drive
- 140mm Length

COMPARABLE: #114180

## #EU2090 Allen Socket

Applicable to Volvo front caliper slide bolts [2010–2015].

- 9mm
- 3/8" Drive
- 50mm Length

## #6300T-50 Torx Socket

**NEW!**

Used in conjunction with #ALT34018 on KIA and Mercedes Alternator Pulley Bolts.

- T-50
- 3/8" Drive
- 70mm Length

## #N512 Socket for Nissan

Applicable to the Flywheel bolts used on Nissan models.

- E12
- 1/2" Drive
- 37mm Length

## #BMW377 Allen Socket

Used for easy removal of the rear brake caliper slide bolts on BMW E36, E46, E39 and E31 models, and Mercedes S Class (221).

- 7mm
- 3/8" Drive
- 32mm Length



## #H2223LGT-30 Torx Socket Insert

Used for the R & R of the airbag from the steering wheel. Applicable to BMW, Mercedes [1998–2002], Saab, Volkswagen [1994–2002] and Volvo.

- T-30
- 70mm Length



## #H2850-E24 Female Torx Socket

Used for R & R of head bolts on International and Man commercial vehicles which use MAN D20, D25 and D28 engines.

- E24
- 3/4" Drive
- 110mm Length



## #ALT34018 Multi-Toothed Alternator Pulley Socket

**NEW!**

Used for R & R of free-wheel pulley on the alternator. Used in conjunction with #S3054X-10 or #6300T-50 sockets.

COMPARABLE:  
MERCEDES #602589001000,  
VW/AUDI #3400, VOLVO #9995760



## #H985-19 Allen Socket

Used on Audi A4 rear axle bolts [2009–newer] and anywhere a 19mm Allen socket is needed on Audi, Mercedes, Porsche, and VW.

- 19mm
- 1/2" Drive
- 42mm Length



## #TSE10TP5 Tesla E10 5 Lobe Socket

**NEW!**



Used to remove the license plate bracket fasteners on model S and used on Model 3 to remove the electrical connectors.

- E10 - 5 Point
- 1/4" Drive
- 25mm Length



**DANGER:**

Caution when using on electric vehicles,  
High Voltage Shock possible

## #HO10PT 10-Point Socket

Applicable: [2001–newer] Honda Civic and Acura RSX rear lower control arms.

- 16mm
- 1/2" Drive
- 40mm Length







## #BMW11845 Torx Socket

Used for BMW VANOS housing bolts.

- T-45 Tamper-proof
- 3/8" Drive
- 100mm Length



## #MOE24 Female Torx Socket

Used on front axle nut on All Wheel Drive Mercedes C 230, C 300, C 350 [2008–2009], C 250, C 300, C 350 [2010–2011], C 300, C 350 [2012–2014], C 350 [2015], E 350, E 550 [2010–2014], E 350 [2015–2016] and S 550 [2007–2013].

- E24
- 1/2" Drive
- 78mm Length



## #M1020 Glow Plug Socket



Glow plug socket for Dodge Sprinter.

- 10mm
- 3/8" Drive

## #MSP1412 Magnetic Spark Plug Socket

Fits BMW, BMW Motorcycles, Ford, Mini, Nissan, Porsche, Scion, Subaru and Toyota.

- 14mm - 12 Point
- 3/8" Drive
- Strong internal magnet holds spark plug firmly

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



## #M820 Glow Plug Socket



Glow plug socket for Mercedes and Sprinter.

- 8mm
- 3/8" Drive

## #M17XLWS Long Mercedes Lug Bolt Socket

Used to R & R the "Flower Shaped" lug bolt on Maybach and Mercedes 221 S class and late model CL class. Fits Mercedes wheel lug bolt part #0009905407.

- 1/2" Drive
- 86mm Length



## #M17WLS Mercedes Lug Bolt Socket

Used to R & R the "Flower Shaped" lug bolt on Maybach and Mercedes 221 S-class and late model CL class. Fits Mercedes wheel lug bolt part #0009905407.

- 1/2" Drive
- 50mm Length



## #SP1412 Spark Plug Socket

Fits BMW, BMW Motorcycles, Ford, Mini, Nissan, Porsche, Scion, Subaru and Toyota.

- 14mm - 12 Point
- 3/8" Drive
- Rubber boot to hold spark plug

**COMPARABLE:** BMW #121220

**NOTE:** SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION.



## #S3054X-10 12-Point Socket



Used for R and R of cylinder head bolts. Applicable to Mercedes OM 601, OM 602 and OM 603 engines; Pontiac Vibe [2003-2007]; Toyota Matrix [2003-2007]; Volkswagen and Audi 10mm, 12-point head bolts.

- 10mm
- 1/2" Drive
- 140mm Length

**NOTE:** MOST [1998-NEWER] VW/AUDI APPLICATIONS REQUIRE THE #3462 HEAD BOLT SOCKET.

**COMPARABLE:** MERCEDES #601589001000, VW #3410 AND VOLVO #9512849.



## #S3054X-12 12-Point Socket



Applicable to Mercedes head bolts on OM 615, 616, 617, M 102, and M 103 engines; for R and R of cylinder head bolts on Toyota 4Runner V6 [2003], all 2ZZ engines with VVT including Toyota Celica [2000-2001] and Highlander 2AZ-FE engines [2001-2006]; older Volkswagen and Audi models with 12mm, 12-point head bolts.

- 12mm
- 1/2" Drive
- 140mm Length

**NOTE:** MOST [1998-NEWER] VW/AUDI APPLICATIONS REQUIRE THE #3462 HEAD BOLT SOCKET.

**COMPARABLE:** MERCEDES #617589001000



## #SU070 Drain Plug Socket for Subaru

Used for R & R of the drain plug on Manual Transmission. Applicable to Subaru with manual transmission [2003- 2016]

- T-70
- 1/2" Drive
- 105mm Length



## #S40-300 3mm Socket



Used on Audi A6 [2012+] Fuel Door Actuators and any place a 3mm socket is needed.

- 1/4" Drive
- 25mm Length



## #3035 3.5mm Socket

Used for R & R of the Proximity (Radar) Sensors and any place a 3.5mm socket is needed.

- 1/4" Drive
- 25mm Length



## #TOY105 Head Bolt Socket

Used for head bolt sockets on newer Toyota models that use a special #8 bi-hexagon socket. Applicable: Toyota Paseo, Prius [20012009], Tercel and Yaris [2006- 2013].

- #8 Bi-Hexagon
- 1/2" Drive
- 100mm Length

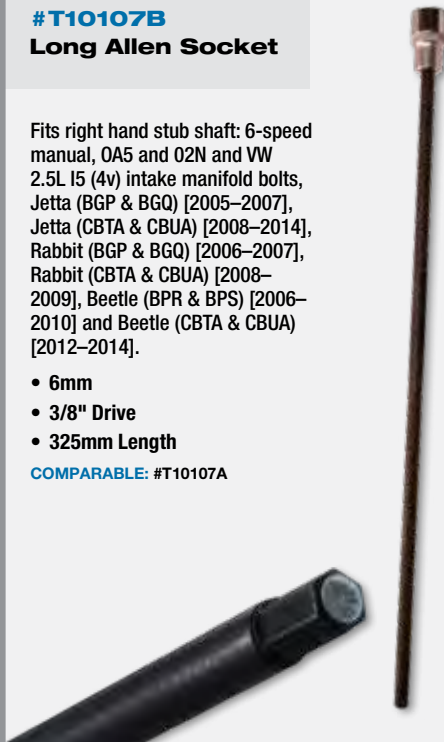


## #T10107B Long Allen Socket

Fits right hand stub shaft: 6-speed manual, OA5 and 02N and VW 2.5L I5 (4v) intake manifold bolts, Jetta (BGP & BGQ) [2005-2007], Jetta (CBTA & CBUA) [2008-2014], Rabbit (BGP & BGQ) [2006-2007], Rabbit (CBTA & CBUA) [2008-2009], Beetle (BPR & BPS) [2006-2010] and Beetle (CBTA & CBUA) [2012-2014].

- 6mm
- 3/8" Drive
- 325mm Length

**COMPARABLE:** #T10107A



## #VW5220 Camshaft Adjuster Socket

Used for camshaft adjuster bolt on VW/Audi 2.0L turbo (BPG) (BPY) engines.

- #10 Polydrive
- 1/2" Drive
- 53mm Length

**COMPARABLE:** #T40080







## Individual Stud Removers / Installers

3/8" & 1/2" Drive except #200-9/16 & #200-5/8 which are 27mm Hex.



**#200-6**  
6mm



**#200-7**  
7mm



**#200-8**  
8mm



**#200-10**  
10mm



**#200-12**  
12mm



**#200-1/4**  
1/4"



**#200-5/16**  
5/16"



**#200-3/8**  
3/8"



**#200-7/16**  
7/16"



**#200-1/2**  
1/2"



**#200-9/16**  
9/16"




**#200-5/8**  
5/8"



The AST Production Year is stamped on the stud remover. Stud removers are warranted for 10 years from this date.

**Stud Removers:** Stud removers are warranted for 10 years.

**External body:** The production year is stamped on the stud remover. Only if the external body is damaged, should the stud puller be sent in, if it is within the 10 year warranty.


 California Residents: Proposition 65  
WARNING. See page 125 for info.

## Parts Kit for Stud Removers / Installers



Internal Parts Kit contains:  
cage, three rollers, clip, and washer

**Internal parts: DO NOT** send in your stud remover that only needs the internal parts replaced. Simply call for assistance and we will send out a replacement parts kit [at no charge while under warranty]. The table to the right indicates replacement numbers for the internal parts.

 California Residents: Proposition 65  
WARNING. See page 125 for info.

STUD REMOVER SIZE      INTERNAL PARTS KIT #


<b>6mm</b>	<b>#60</b>
<b>7mm</b>	<b>#70</b>
<b>8mm</b>	<b>#80</b>
<b>10mm</b>	<b>#100</b>
<b>12mm</b>	<b>#120</b>
<b>1/4"</b>	<b>#250</b>
<b>5/16"</b>	<b>#312</b>
<b>3/8"</b>	<b>#375</b>
<b>7/16"</b>	<b>#437</b>
<b>1/2"</b>	<b>#500</b>
<b>9/16"</b>	<b>#562</b>
<b>5/8"</b>	<b>#625</b>

## #201

### 4-Piece Metric Stud Puller Set



4-Piece stud remover set. Includes 6mm, 8mm, 10mm and 12mm stud remover tools. Works on most makes and models. Multiple applications. Carrying case included.


 California Residents: Proposition 65  
WARNING. See page 125 for info.

## #201-7

### 5-Piece Metric Stud Puller Set



5-Piece metric stud remover set. Includes 6mm, 7mm, 8mm, 10mm and 12mm stud remover tools.


 California Residents: Proposition 65  
WARNING. See page 125 for info.

## #202

### 5-Piece Standard Stud Puller Set



5-Piece standard stud remover set. Includes 1/4, 5/16, 3/8, 7/16, and 1/2 inch stud remover tools. Works on most makes and models.


 California Residents: Proposition 65  
WARNING. See page 125 for info.

## #203

### 7-Piece Standard Stud Puller Set



7-Piece standard stud remover set. Includes 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, and 5/8 inch stud remover tools. Works on most makes and models.

 California Residents: Proposition 65  
WARNING. See page 125 for info.

## #SR101

### Stud Remover and Installer Set

Pieces thread onto broken studs, lock together and are turned out with a socket or wrench.

- Contains sizes:  
M6 x 1.0, M8 x 1.25,  
M10 x 1.25 and M10 x 1.5







**#3810**  
**6-Piece File Set**

Includes the following six files and a protective case: flat file, flat file / tapered front, round file, triangle file, square file and a half round / half flat file.



DETAILED VIEW OF FILE  
TIPS SHOWN HERE

**#VW93005**  
**Connector Release Tool**

Used to remove flat terminals with two release tangs from the connector plug (1mm wide, 2.5mm apart and 16mm long). Replaces #S 1556 N.



**#M8160**  
**Extra Long 8mm Socket**



Used for R & R of rear tail light assembly on Mercedes models [2017-2018].

- 1/4" Drive
- 160mm Length

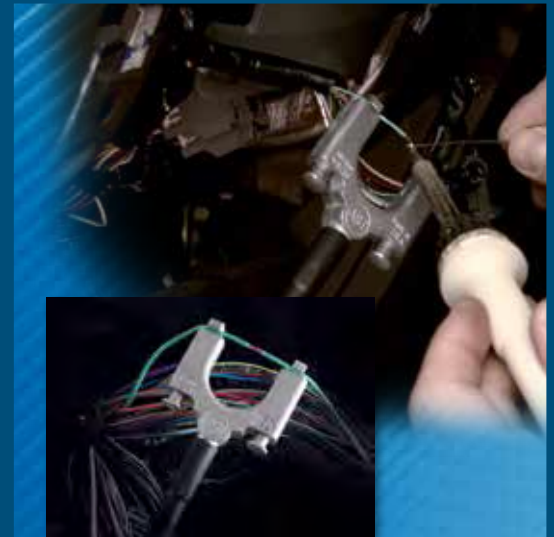
**#BMW10160**  
**Extra Long 10mm Socket**



Used for R & R of the ground connector screw for the injector on BMW N54 engines and Mercedes-Benz rear bumpers.

- 1/4" Drive
- 160mm Length

COMPARABLE: #118620



**#WSC15**  
**Wire Soldering Clamp**



This clamp tool is an ideal solution for holding wires in place during soldering. It is a second set of hands, clamping down onto wires from either side of the tool. Holds firmly and may be used for various gauges of wiring.



- Six inch flex cable for difficult to reach areas
- Spring-loaded, sliding claws clamp onto wires firmly
- Extra strong magnetic base provides ample support
- Frame and Claws Made in USA from Diecast Aluminum

#MW35

Hard Black Wedge Set



Constructed of strong black polycarbonate, this set of three wedge-style dash panel removal tools allows installers to remove oil pans, rocker covers and more, without causing damage.



- More Ridgid than the Orange "MW 34 Set and used on Much Heavier Jobs

California Residents: Proposition 65  
WARNING: See page 125 for info.

#3206

Door, Trim and Molding Tool Set



Set includes a T-25 long Torx screwdriver for accessing door handles on various BMW and Mercedes models. One trim spoon and one light duty hook is included for various interior jobs. Includes a specialty door handle tool for VW Tiguan models, as well as one pair of trim and cluster hooks. Three soft wedges are also included for various trim and molding jobs both for interior and exterior applications. Includes carrying pouch.



#MW34

Soft Orange Wedge Set



Constructed of soft orange polyethylene, this set of three wedge-style dash panel removal tools allows installers to remove dash trim bezels and other vehicle interior moldings including door panels, without causing damage. Great for installing electronics.



- Three Diverse Sizes for Various Uses

#M0333

Puller Set  
(pair of hooks)



Used for R & R of the instrument cluster on Mercedes models. Applicable: Mercedes W 107, 116, 123, 124, 126, 129, 140, 168, 170, 201, 202, 208, 210 and 463 chassis.

#T10389

Assembly Tool



For removal and installation of the lock cylinder housing on doors with no lock cylinder. Applicable to VW Tiguan [2009-2016].

INCLUDED IN  
#3206 SET

#T10518A

Grab Handle  
Release Tool



Used to remove the roof grab handle of the Golf [2013-2017] and Tiguan [2016-2017] without causing damage.

#3316

Radio Removal Keys



For removing the factory installed radio. Applicable: new body style VW Passat [1999-2005] and Jetta and Golf [1999-2005] with vertically aligned key slots.



#3344A

Radio Removal Tool



For radio removal on Audi A4, A6, A8 and VW new Beetle models with horizontally aligned key slots. Two pair required in most cases.

COMPARABLE: VW #T 10057







### #HD1674

#### Oil Filter Wrench for Harley-Davidson



For Harley Davidson motorcycles [1980–2016] with a spin on oil filter. Machined, window design clears the crank sensor.

- 74mm - 14 Flats
- Use with 22mm socket

California Residents: Proposition 65  
WARNING. See page 125 for info.



### #MO219

#### Oil Filter Wrench



Used on BMW motorcycles F650, F800, K100, K1100, K1200GT [2003–2004], K1200LT, K1200R, K1200RS [1996–2004], K1200S, K1300, K75, R1100, R1150, R1200C, R1200CL, R1200GSW [2013–2014], R850 and S1000RR.

- 74mm - 14 Flats
- Use with 22mm socket

California Residents: Proposition 65  
WARNING. See page 125 for info.



### #JAS6514

#### Oil Filter Wrench

Applicable to Honda and Nissan vehicles. Kawasaki factory filter #16097-0003 and Yamaha factory filter #5GH-13440-00. Also works on Powersports vehicles that utilize "HF303" oil filters including Honda, Polaris, Kawasaki and Yamaha.

- 65mm - 14 Flats
- 3/8" Drive



### #BM1276

#### Oil Filter Wrench

For R & R of oil filter on BMW motorcycles [2007–2016] with oil filter #11 42 7 673 541 found on BMW F650F, F800GS, HP2, K 1600 GTL /GT, K1200GT [2006–2008], K1200R/SPORT, K1200S, R 1200 ST, R1200GS, R1200R, R1200RT, R1200S and S 1000 RR.

- 76mm - 12 Flutes
- 3/8" Drive

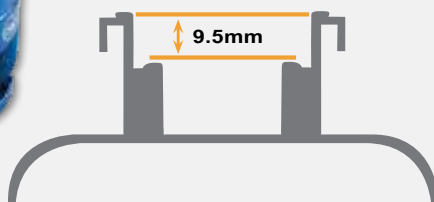


### #FZ13818

#### Adapter



For pressurizing cooling system. Works with many Asian and domestic models. Applicable: vehicles with small, shallow necks.



### #OFHD35

#### Oil Funnel for Harley-Davidson



Oil funnel that threads on and seals just like the Harley-Davidson oil cap. Applicable to Harley-Davidson Dyna [2007–2016] and Touring models.

- DO NOT USE  
BRAKE CLEAN

California Residents: Proposition 65  
WARNING. See page 125 for info.



### #OFHD419

#### Oil Funnel for Harley-Davidson



For the "push-in style" oil fill caps for [1999–2006] Harley-Davidson touring models.

- DO NOT USE  
BRAKE CLEAN

California Residents: Proposition 65  
WARNING. See page 125 for info.



### #3035 3.5mm Socket

Used for R & R of the Proximity (Radar) Sensors on Tesla vehicles.

- 1/4" Drive
- 25mm Length



### #ATFBASIC Basic Driveline Filler

Applicable to Nissan Leaf to fill the gear reduction assembly and on Tesla Drive lines. U.S. made container, made of UHDP (ultra high density polyethylene). Newly designed drum features a second port for filling or dumping fluids without having to remove the pump—saving both time and clean up afterwards.

- Used only to Fill, Not to Drain—So Clean Fluid Stays Clean
- 8 Liter Capacity
- Quick Attachment Adapters
- Pump Dispenses Efficiently
- On/Off Ball Valve
- Hose Length: 4ft 10in



ATF CONTAINER IS  
MADE IN USA

### #TSE10TP5 Tesla E10 5 Lobe Socket

**NEW!**



1/4" Drive. Used to remove the license plate bracket fasteners on model S and used on Model 3 to remove the electrical connectors.

- E10 - 5 Point
- 1/4" Drive
- 25mm Length



#### **DANGER:**

Caution when using on electric vehicles,  
High Voltage Shock possible





## #TM1215

### Ball Joint Hammer Nut

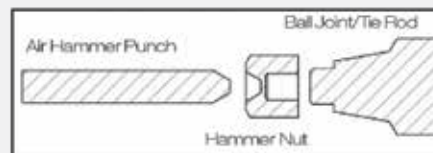
**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts.

- M12 x 1.5 Threads
- 22mm - 7/8" Hex



**NOTE:** FOR THE COMPLETE 4PC. SET, PURCHASE THE #TM20194 CONTAINING M12X1.25, M12X1.5, M14X1.5 AND M16X1.5.



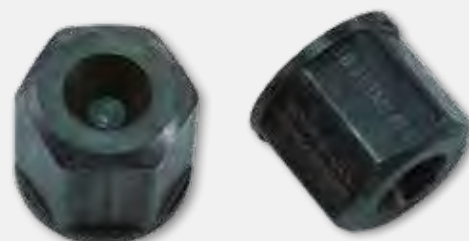
## #TM1415

### Ball Joint Hammer Nut

**NEW!**

Used for breaking free steering knuckle/suspension joints using an impact hammer. Nut must be threaded all the way onto knuckle/suspension joints threaded shafts.

- M14 x 1.5 Threads
- 22mm - 7/8" Hex



## #TOY640

### Oil Filter Wrench



Applicable to all models with paper cartridge-style filter in Lexus CT 200h [2011–2016], GS 450h [2007–2018], HS 250h [2010–2013], LS 600h [2008–2016], RX 450h [2010–2018]; Toyota Avalon Hybrid [2013–2019], Camry Hybrid [2007–2019], Highlander Hybrid [2006–2019], Prius [2001–2019] and RAV4 Hybrid [2016–2019].

- 64mm -14 Flats
- Use 24mm or 15/16" socket

**COMPARABLE:** #09228-06501 AND #09228-06500-02

California Residents: Proposition 65 WARNING. See page 125 for info.

## #FZ148

### Tank Adapter



For pressurizing cooling system. Applicable to Lexus CT 200h [2011–2016], GS 450h [2007–2018], HS 250h [2010–2013], LS 600h [2008–2016], RX 450h [2010–2018]; Toyota Avalon Hybrid [2013–2019], Camry Hybrid [2007–2019], Highlander Hybrid [2006–2019], Prius [2001–2019] and RAV4 Hybrid [2016–2019].

- M34 x 3 Threads

## #FZ25

### Tank Adapter



For pressurizing cooling system . Applicable to BMW Hybrid Models 330e, 530e, 740e and X5 40e [2016–2019]; BMW Electric Models i3 and i8 [2014–2019].

- M47 x 3 Threads

## **APPENDIX**

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APPLICATION CHARTS	110-124
CALIFORNIA PROP 65	
WARNINGS	125







## # BMW345 Tank Adapter

- M51 x 4 Threads



### MAKE / MODEL

### YEAR RANGE

### MAKE / MODEL

### YEAR RANGE

BMW – 318i	[1996–2005]
BMW – 323i	[1999]
BMW – 323is	[1996–2005]
BMW – 325i	[2004]
BMW – 328i	[1996–2005]
BMW – 330ci	[1996–2005]
BMW – 330xi	[1996–2005]
BMW – 530i	[1997–2003]

BMW – 540i	[1997–2003]
BMW – 740i	[1995–2000]
BMW – 745i	[2002–2004]
BMW – X3	[1990–2003]
BMW – X5	[2005–2006]
BMW – Z3	[1996–2005]
BMW – Z4	[1996–2005]
BMW – Z8	[2001]

### MAKE / MODEL

### YEAR RANGE

Land Rover – Discovery	[1999–2004]
Land Rover – Range Rover	[1995–2004]



## # BMW350 Tank Adapter

- M52 x 3 Threads

#### \*ATTENTION:

THE BMW 350 MAY NOT FIT ON [2014–JANUARY 2016] BMW 750i. THE TANK HAS DIFFERENT THREADS AND BMW SUPERSEDED THE TANK TO A NEW CORRECTED PART NUMBER. CARS MADE AFTER JANUARY OF 2016 HAVE THE SUPERSEDED TANK AND THE BMW 350 WORKS PERFECTLY.

### MAKE / MODEL

### YEAR RANGE

### MAKE / MODEL

### YEAR RANGE

### MAKE / MODEL

### YEAR RANGE

BMW – 128i	[2008–2013]
BMW – 135i	[2008–2013]
BMW – 135is	[2013]
BMW – 230i	[2017–2018]
BMW – 320i	[2012–2013]
BMW – 323i	[2006–2011]
BMW – 325Ci	[2006]
BMW – 325i	[2006]
BMW – 325xi	[2006]
BMW – 328Ci	[2007–2012]
BMW – 328i	[2007–2018]
BMW – 328xi	[2007–2012]
BMW – 330Ci	[2006]
BMW – 330e	[2017–2018]
BMW – 330i	[2006–2018]
BMW – 330xi	[2006]
BMW – 335Ci	[2007–2012]
BMW – 335d	[2009–2011]
BMW – 335i	[2007–2013]

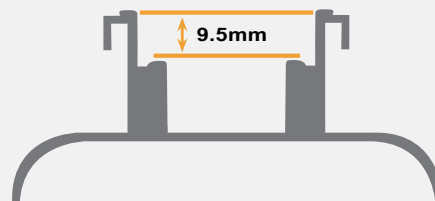
BMW – 335is	[2011–2013]
BMW – 335xi	[2007–2012]
BMW – 430i	[2017–2019]
BMW – 525	[2004–2005]
BMW – 525i	[2007]
BMW – 525xi	[2007]
BMW – 528i	[2009–2013]
BMW – 528xi	[2008–2010]
BMW – 530	[2004–2005]
BMW – 530e	[2012–2013]
BMW – 530i	[2006–2018]
BMW – 530xi	[2006–2007]
BMW – 535d	[2014–2015]
BMW – 535i	[2008–2016]
BMW – 535xi	[2008–2010]
BMW – 540i	[2017–2018]
BMW – 545	[2004–2005]
BMW – 550	[2006–2007]
BMW – 550i	[2008–2013]

BMW – 640i	[2012–2018]
BMW – 645Ci	[2004–2005]
BMW – 650i	[2006–2018]
BMW – 740e	[2016–2018]
BMW – 740i	[2008–2015]
BMW – 750i	[2009–2018] <b>*SEE NOTE</b>
BMW – 750Li	[2009–2013]
BMW – X3	[2007–2018]
BMW – X4	[2016–2018]
BMW – X5	[2007–2018]
BMW – Z4	[2009–2016]





**#FZ13818**  
**Coolant Adapter**



**MAKE / MODEL**      **YEAR RANGE**

Acura – MDX	[2018]
Acura – Clarity	[2018]
Chevrolet – Metro	[1998–1998]
Chevrolet – Prizm	[1998–1998]
Chevrolet – Tracker	[1998–1998]
Chrysler – Colt	[1993]
Chrysler – Summit	[1993–1995]
Honda – Accord	[1994–2016]
Honda – Civic	[1994–2015]
Honda – CR-V	[2014]
Honda – Element	[2008]
Honda – Odyssey	[1999–2018]
Honda – Pilot	[2003–2016]
Honda – S2000	[2008]
Isuzu – All Models	[1998–1999]
Lexus – ES 300	[1992–1993]
Lexus – GS 300	[1993–1999]
Lexus – GS 400	[1989–1999]

**MAKE / MODEL**      **YEAR RANGE**

Lexus – RX 300	[2000]
Mazda – 5	[2007]
Mazda – Protege	[2000–2003]
Mitsubishi – Diamante	[1996–1998]
Mitsubishi – Eclipse Spyder	[2002]
Mitsubishi – Galant	[1994–2003]
Mitsubishi – Mirage	[1993–1999]
Scion – FR-S	[2013–2016]
Scion – tC	[2008]
Subaru – (6-cyl.) models	[2001–2016]
Subaru – Ascent	[2019]
Subaru – BRZ	[2013–2017]
Subaru – Forester	[2016]
Subaru – Impreza	[2006–2018]
Subaru – Legacy	[2016]
Subaru – Outback	[2006–2018]
Subaru – Tribeca B9	[2006]
Subaru – XV Crosstrek	[2013–2018]

**MAKE / MODEL**      **YEAR RANGE**

Toyota – 4Runner	[2001–2019]
Toyota – Avalon	[2011–2016]
Toyota – Camry	[1992–2019]
Toyota – Celica	[1990–1998]
Toyota – Corolla	[1993–2016]
Toyota – Echo	[2000–2003]
Toyota – FJ Cruiser	[2007–2014]
Toyota – Highlander	[2001–2019]
Toyota – Matrix	[2003–2013]
Toyota – Paseo	[1992–1999]
Toyota – RAV4	[1996–2016]
Toyota – Sequoia	[2001–2003]
Toyota – Sienna	[2010–2019]
Toyota – Supra	[1992–1997]
Toyota – Tacoma	[2006–2016]
Toyota – Tercel	[1991–1999]
Toyota – Tundra	[2000–2019]
Toyota – Venza	[2011–2016]
Toyota – Yaris	[2011–2016]



**#FZ148**  
**Tank Adapter**

- M34 x 3 Threads

**MAKE / MODEL**      **YEAR RANGE**

Lexus – LS 460	[2007–2013]
Lotus – Elise	[2005]
Scion – tC	[2011–2016]
Scion – xB	[2011–2013]

**MAKE / MODEL**      **YEAR RANGE**

Toyota – Celica GTS-S	All Applicable
Toyota – Highlander	[2006–2010]
Toyota – MR2 Spyder	All Applicable
Toyota – Prius	[2001–2016]
Toyota – RAV4	[2006–2018]





## #FZ163 Cooling System Adapter



### MAKE / MODEL

### YEAR RANGE

Porsche – Boxster

[2007–2012]

Porsche – Cayman

[2005–2013]



## #FZ22 Tank Adapter

- M48 x 3 Threads



### MAKE / MODEL

### YEAR RANGE

Audi –  
Models with male threads  
on exp. tank

[1975–1993]

Audi – A8

[1999]

### MAKE / MODEL

### YEAR RANGE

Audi – S8

[2001]

Kenworth – Heavy Truck

[2007–2008]

Porsche – 911

[1999–2008]

Porsche – Boxster

[2003]

### MAKE / MODEL

### YEAR RANGE

Volkswagen –  
Models with male threads  
on exp. tank

[1975–1993]

Volvo trucks – V670

[2005]

Volvo trucks – VN430

[2005]



## #FZ25 Tank Adapter

- M47 x 3 Threads

### MAKE / MODEL

### YEAR RANGE

Autocars – Trucks

[2001–2016]

BMW – 330e

[2017–2018]

BMW – 430i

[2017–2019]

BMW – 530e

[2017–2018]

BMW – 740e

[2017–2018]

BMW – i3

[2014–2018]

BMW – i8

[2014–2018]

BMW – X5 xdrive 40e

[2017–2018]

### MAKE / MODEL

### YEAR RANGE

BMW – V8 Twin (turbo)  
Intercooler Coolant Reservoir

[2008–2017]

Ferrari –  
350 series with threaded tank

All Applicable

Ferrari –  
450 series with threaded tank

All Applicable

Ferrari –  
550 series with threaded tank

All Applicable

Fiat – 500

[2012–2016]

Jeep – All Models

[1987–1990]

### MAKE / MODEL

### YEAR RANGE

Land Rover – Freelander

[2002–2004]

Mini – Mini Cooper

[2007–2016]

RAM Trucks – Promaster Van

[2014–2018]

Saab – 9000

[1986–1998]

Sterling – All Models

[1987–1991]

Volvo – Passenger Vehicles  
(with threaded neck)

[1978–2006]

Volvo – Volvo Trucks  
(M47 x 3 threads)

[1978–2006]



### #FZ32A Tank Adapter

- M52 x 2.5 Threads



### #FZ36 Cap Adapter

- M52 x 2.5 Threads



#### MAKE / MODEL

#### YEAR RANGE

Aston Martin – DB9	[2016]
Aston Martin – Rapide	[2016]
Aston Martin – Rapide S	[2016]
Aston Martin – Vanquish	[2016]
Aston Martin – Vantage	[2016]
Dodge – Dart 2.4L	[2016]
Ford – Crown Victoria	[1994–2003]
Ford – E-Series van	[1995–2003]
Ford – Edge	[2013–2015]
Ford – Escape	[2007–2012]
Ford – Excursion	[2000–2004]
Ford – Expedition	[2003–2016]
Ford – Explorer	[2002–2018]
Ford – F-150	[2004–2014]
Ford – F-250	[2002–2016]
Ford – F-250 6.7L Power Stroke	[2016–2018]
Ford – Five Hundred	[2005]
Ford – Freestyle	[2005]

#### MAKE / MODEL

#### YEAR RANGE

Ford – Flex	[2011]
Ford – Focus	[2006]
Ford – Fusion	[2010–2011]
Ford – Mustang	[1996–2014]
Ford – Taurus	[1996–2006]
Ford – Thunderbird	[1993–2005]
Ford – Windstar	[2002–2003]
Freightliner – Cascadia	[2008]
Freightliner – Columbia	[2008]
International – 6.4L Diesel	[2012]
International – Navistar VT 365	[2007]
International – with 466 engine	[1994–2002]
Jaguar – F-Type	[2016]
Jaguar – S Type	[2003–2008]
Jaguar – X Type	[2003–2008]
Jaguar – XF	[2009–2015]
Jaguar – XJ	[2003–2015]
Jaguar – XK	[2003–2013]

#### MAKE / MODEL

#### YEAR RANGE

Land Rover – Discovery Sport	[2016]
Land Rover – LR3	[2005–2014]
Land Rover – Range Rover	[2016]
Land Rover – Range Rover Sport	[2006–2016]
Lincoln – Mark VIII	[1993–1998]
Lincoln – Navigator	[1998]
Lincoln – Towncar	[1993–1999]
Mercedes – ML 320	[1998–2005]
Mercedes – ML 430	[1998–2005]
Mercury – Cougar	[1995]
Mercury – Crown Victoria	[1993–2003]
Mercury – Grand Marquis	[1993–2003]
Mercury – Sable	[1996–2003]
Nissan – Armada	[2005–2015]
Nissan – Titan	[2004–2015]





## #FZ35A Tank Adapter

- M52 x 2.5 Threads



## #FZ36 Cap Adapter

- M52 x 2.5 Threads



MAKE / MODEL	YEAR RANGE
Aston Martin – DB9	[2016]
Aston Martin – Rapide	[2016]
Aston Martin – Rapide S	[2016]
Aston Martin – Vanquish	[2016]
Aston Martin – Vantage	[2016]
Buick – Encore	[2014]
Buick – Lacrosse	[2011–2014]
Buick – Roadmaster	[1994–1996]
Buick – Skylark	[1992–1998]
Cadillac – ATS	[2014–2015]
Cadillac – CTS	[2003–2015]
Cadillac – CTS4	[2016]
Cadillac – ELR Coupe	[2014]
Cadillac – Escalade	[1999–2015]
Cadillac – Escalade ESV	[2014–2015]
Cadillac – Fleetwood	[1994–1996]
Cadillac – Seville	[1998–2004]
Cadillac – SRX	[2014–2015]
Cadillac – XTS Sedan	[2014–2015]
Chevrolet – Aveo	[2008–2011]
Chevrolet – Beretta	[1992–1996]
Chevrolet – Camaro	[1999–2015]
Chevrolet – Caprice	[1995–1996]
Chevrolet – Cavalier	[1995–2005]
Chevrolet – Cobalt	[2005–2010]
Chevrolet – Corsica	[1992–1996]
Chevrolet – Corvette	[1999–2015]
Chevrolet – Cruze	[2011–2018]
Chevrolet – Express	[2010–2015]
Chevrolet – Impala SS	[1994–1996]

MAKE / MODEL	YEAR RANGE
Chevrolet – Malibu	[1997–2018]
Chevrolet – Metro	[1999–2001]
Chevrolet – Prizm	[1999–2002]
Chevrolet – Silverado 1500	[1999–2018]
Chevrolet – Silverado 2500 (gas)	[1999–2016]
Chevrolet – Suburban	[2000–2015]
Chevrolet – Tahoe	[1999–2015]
Chevrolet – Tracker	[1999–2004]
Chevrolet – Trailblazer	[2001–2009]
Chevrolet – Trax	[2015]
Chevrolet – Van	[2007–2011]
Chrysler – 200	[2015]
Chrysler – Pacifica	[2017]
Freightliner – Diesel truck	[2004–2004]
GMC – Envoy	[2002–2002]
GMC – Sierra	[2014]
GMC – Sierra 1500	[1999–2015]
GMC – Sierra 2500	[1999–2003]
GMC – Sierra 2500 HD	[2015]
GMC – Sierra 3500	[2014]
GMC – Sierra 3500 HD Denali	[2014]
GMC – Sierra 3500 6.6L Duramax DSL	[2016]
GMC – Terrain	[2014]
GMC – Terrain Denali	[2014]
GMC – Yukon	[1999–2015]
Jaguar – F-Type	[2016]
Jaguar – S Type	[2003–2008]
Jaguar – X Type	[2003–2008]

MAKE / MODEL	YEAR RANGE
Jaguar – XF	[2009–2015]
Jaguar – XJ	[2003–2015]
Jaguar – XK	[2003–2013]
Jeep – Grand Cherokee	[2016–2017]
Land Rover – Discovery Sport	[2016]
Land Rover – Freelander	[2005]
Land Rover – LR3	[2005–2014]
Land Rover – Range Rover	[2016]
Land Rover – Range Rover Sport	[2006–2016]
Oldsmobile – Achieva	[1992–1998]
Oldsmobile – Alero	[1999]
Oldsmobile – Aurora	[1995–1999]
Oldsmobile – Cutlass	[1997–1998]
Oldsmobile – Intrigue	[1999–2000]
Pontiac – G6	[2005–2008]
Pontiac – Grand Am	[1992–1999]
Pontiac – Grand Prix	[2006]
Pontiac – Sunfire	[1995–1999]
RAM Trucks – 1500 3.0L EcoDiesel	[2014–2017]
RAM Trucks – 2500 6.7L Cummins	[2013–2018]
RAM Trucks – 3500 6.7L Cummins	[2013–2018]
Saab – 93	[2003–2004]
Saturn – All Models	[1990–2005]



### #FZ41 Tank Adapter

- M63 x 3 Threads

#### MAKE / MODEL YEAR RANGE

Audi – A3	[2006–2018]
Audi – A4	[1996–2018]
Audi – A5	[2008–2018]
Audi – A6	[1998–2018]
Audi – A7	[2012–2018]
Audi – A8	[2006–2018]
Audi – Allroad Quattro	[2001–2003]
Audi – Q3	[2016–2018]
Audi – Q5	[2009–2018]
Audi – Q7	[2007–2018]

#### MAKE / MODEL YEAR RANGE

Audi – S3	[2016–2018]
Audi – S4	[2000–2018]
Audi – S5	[2008–2018]
Audi – S7	[2016–2018]
Audi – TT	[2000–2015]
Lamborghini – Gallardo	[2006–2013]
Porsche – 911 (991 body)	[2012–2015]
Porsche – Cayenne	[2004–2013]
Volkswagen – Atlas	[2018]
Volkswagen – Beetle	[1999–2015]

#### MAKE / MODEL YEAR RANGE

Volkswagen – CC	[2009–2015]
Volkswagen – EOS	[2007–2015]
Volkswagen – Golf	[1999–2018]
Volkswagen – GTI	[2008–2016]
Volkswagen – Jetta	[2015–2018]
Volkswagen – Passat	[1998–2018]
Volkswagen – Rabbit	[2006–2009]
Volkswagen – Tiguan	[2009–2018]
Volkswagen – Touareg	[2004–2015]



### #FZ47 Tank Adapter

- M49 x 2.5 buttress Threads

#### MAKE / MODEL YEAR RANGE

Ford – C-Max	[2014–2016]
Ford – EcoSport	[2018–2018]
Ford – Edge	[2013–2018]
Ford – Escape	[2013–2018]
Ford – Expedition	[2015–2018]
Ford – F-150	[2015–2018]
Ford – Fiesta	[2011–2018]
Ford – Focus	[2012–2018]
Ford – Fusion	[2013–2018]
Ford – Mustang	[2016–2018]

#### MAKE / MODEL YEAR RANGE

Ford – Transit 150 3.5L (turbo)	[2015–2016]
Ford – Transit 150 3.2L (Diesel)	[2015]
Ford – Transit 250 3.7L	[2015]
Ford – Transit Connect	[2014–2015]
Land Rover – LR2	[2007–2015]
Land Rover – Range Rover Evoque	[2012–2017]
Mazda – 3	[2004–2013]
Mazda – 6	[2004–2009]
Volvo – S40	[2004–2010]
Volvo – S60	[2016–2019]

#### MAKE / MODEL YEAR RANGE

Volvo – S80	[2008–2016]
Volvo – S90	[2016–2019]
Volvo – V50	[2005–2010]
Volvo – V60	[2010–2019]
Volvo – V90	[2016–2019]
Volvo – XC40	[2019]
Volvo – XC60	[2010–2019]
Volvo – XC70	[2008–2016]
Volvo – XC90	[2016–2019]





## #FZ55 Tank Adapter

- M46 x 2.5mm Threads

### MAKE / MODEL

### YEAR RANGE

Dodge – Sprinter	[2007–2009]
Mercedes – Sprinter	[2010–2019]
Mercedes – Metris	[2018–2019]



## #M034919 Tank Adapter

- M62 x 4mm Threads
- Applicable to 1996-2019 models
- For ML models [1998-2005], see #FZ35A

### MAKE / MODEL

### YEAR RANGE

Mercedes – AMG	All Applicable
Mercedes – C class	All Applicable
Mercedes – CL class	All Applicable
Mercedes – CLK class	All Applicable

### MAKE / MODEL

### YEAR RANGE

Mercedes – CLS class	All Applicable
Mercedes – E class	All Applicable
Mercedes – G class	All Applicable
Mercedes – ML 164	All Applicable

### MAKE / MODEL

### YEAR RANGE

Mercedes – R class	All Applicable
Mercedes – S class	All Applicable
Mercedes – SL class	All Applicable
Mercedes – SLK class	All Applicable





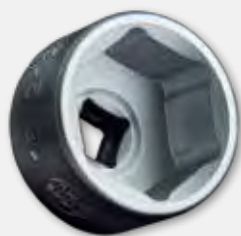
### #2124 24mm Oil Filter Socket

- 3/8" Drive

MAKE / MODEL	YEAR RANGE
BMW – 545	[2004–2005]
BMW – 550	[2006–2010]
BMW – 645Ci	[2004–2005]
BMW – 650i	[2006–2010]
BMW – 745i	[2002–2005]
BMW – 745Li	[2002–2005]
BMW – 750i	[2006–2008]
BMW – 750Li	[2006–2008]

MAKE / MODEL	YEAR RANGE
BMW – Alpina B7	[2007–2008]
BMW – X5	[2004–2010]
Chevrolet – Trax	[2015–2015]
Chrysler – 200	[2011–2016]
Chrysler – 300	[2011–2016]
Chrysler – Town & Country	[2011–2016]
Dodge – Avenger	[2011–2016]
Dodge – Challenger	[2011–2016]

MAKE / MODEL	YEAR RANGE
Dodge – Charger	[2011–2016]
Dodge – Durango	[2011–2016]
Dodge – Grand Caravan	[2011–2016]
Dodge – Journey	[2011–2016]
Jeep – Grand Cherokee	[2011–2016]
Jeep – Wrangler	[2012–2017]
Maserati – Ghibli	[2013–2013]
Saturn – Astra	[2008–2009]



### #2127 27mm Oil Filter Socket

- 3/8" Drive

MAKE / MODEL	YEAR RANGE
Kia – Sedona (6-cyl.)	[2014–2015]
BMW – 535d	[2014–2015]
BMW – 740Ld xDrive	[2015]
BMW – X5 35d xDrive	[2014–2015]
Fiat – 500	[2012–2013]
Hyundai – Azera	[2009–2012]

MAKE / MODEL	YEAR RANGE
Hyundai – Equus	[2011–2013]
Hyundai – Genesis	[2008–2013]
Hyundai – Santa Fe 3.3L	[2009]
Hyundai – Sonata 3.3L	[2009]
Hyundai – Veracruz	[2007–2013]
Kia – Amanti	[2007–2009]

MAKE / MODEL	YEAR RANGE
Kia – Borrego	[2009–2012]
Kia – Cadenza	[2014–2018]
Kia – Sedona (6-cyl.)	[2016–2018]
Kia – Sorento	[2007–2018]
Mercedes – C 300 (204)	[2015]
Mini – Cooper	[2007–2015]





## #2132 32mm Oil Filter Socket

- 3/8" Drive

MAKE / MODEL	YEAR RANGE
Audi – A4	[2017]
Audi – Q3	[2015–2016]
Audi – S3	[2015–2016]
BMW – 230i	[2017–2018]
BMW – 330i	[2017–2018]
BMW – 335d	[2009–2011]
BMW – 340i	[2017–2018]
BMW – 430i	[2017–2018]

MAKE / MODEL	YEAR RANGE
BMW – 530i	[2017–2018]
BMW – 540i	[2017–2018]
BMW – 740i	[2017–2018]
BMW – M240i	[2017–2018]
BMW – X1	[2016–2018]
BMW – X5 35d	[2009–2013]
Chevrolet – Cobalt	[2007–2010]
Chevrolet – Impala	[2014]

MAKE / MODEL	YEAR RANGE
Chevrolet – Malibu	[2007–2014]
Land Rover – Range Rover 3.0L Diesel	[2016]
Maserati – Quattroporte	[2013–2014]
Saab – 9-3	[2003]
Saturn – Ion	[2005]
Volkswagen – Golf 2.0 TDI	[2011–2016]
Volkswagen – Jetta 2.0 TDI	[2011–2016]



## #2136 36mm Oil Filter Socket

- 3/8" Drive

MAKE / MODEL	YEAR RANGE
Audi – A6 3.0 (turbo)	[2014–2016]
Audi – Q7	[2007–2016]
BMW – M52 Engine	[1994–2000]
BMW – M54 Engine	[2000–2005]
BMW – M60 Engine	[1992–1996]
BMW – M62 Engine	[1994–2005]
BMW – M70 Engine	[1988–1996]
BMW – M73 Engine	[1993–2002]

MAKE / MODEL	YEAR RANGE
Ford – F-250 6.0L (turbo diesel)	[2004]
Ford – F-350 6.0L (turbo diesel)	[2004]
Mercedes – E300 diesel	[1996–1999]
Mini – Cooper	[2002–2006]
Porsche – 911	[2009–2016]
Porsche – Boxster	[2009–2016]
Porsche – Cayenne	[2009–2016]
Porsche – Panamera	[2009–2016]

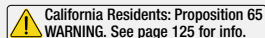
MAKE / MODEL	YEAR RANGE
Volkswagen – Corrado	
Volkswagen – Eurovan	
Volkswagen – R32	[2004]
Volkswagen – Touareg	[2002–]
Volvo – 3.0L	[2007–2014]
Volvo – 3.2L engine	[2007–2014]



#2175

**74.5mm Oil Filter Wrench**

- 14 Flat, 22mm Hex Drive



MAKE / MODEL	YEAR RANGE
Audi – 4000	All Applicable
Audi – 5000	All Applicable
BMW – M44 engine	All Applicable
Dodge – Sprinter (gas engine)	[2003–2006]
Mercedes – C 350	[2015]
Mercedes – C 400	[2015]

MAKE / MODEL	YEAR RANGE
Audi – 4000	All Applicable
Audi – 5000	All Applicable
BMW – M44 engine	All Applicable
Dodge – Sprinter (gas engine)	[2003–2006]
Mercedes – C 350	[2015]
Mercedes – C 400	[2015]

MAKE / MODEL	YEAR RANGE
Mercedes – E 250 2.1L (turbo diesel)	[2014–2016]
Mercedes – GLK 250 2.1L (turbo diesel)	[2014]
Mercedes – ML 250 2.1L (turbo diesel)	[2015]
Mercedes – Sprinter 2.1L (turbo diesel)	[2014–2016]

MAKE / MODEL	YEAR RANGE
Mercedes – E 250 2.1L (turbo diesel)	[2014–2016]
Mercedes – GLK 250 2.1L (turbo diesel)	[2014]
Mercedes – ML 250 2.1L (turbo diesel)	[2015]
Mercedes – Sprinter 2.1L (turbo diesel)	[2014–2016]

MAKE / MODEL	YEAR RANGE
Porsche – 924	All Applicable
Porsche – 944	All Applicable
Volkswagen – Beetle	[2005–2014]
Volkswagen – Dasher	All Applicable
Volkswagen – Fox	All Applicable
Volkswagen – Golf	All Applicable
Volkswagen – Jetta	[2005–2014]
Volkswagen – Scirocco	All Applicable
Volkswagen – Rabbit	[1975–1984]

MAKE / MODEL	YEAR RANGE
Porsche – 924	All Applicable
Porsche – 944	All Applicable
Volkswagen – Beetle	[2005–2014]
Volkswagen – Dasher	All Applicable
Volkswagen – Fox	All Applicable
Volkswagen – Golf	All Applicable
Volkswagen – Jetta	[2005–2014]
Volkswagen – Scirocco	All Applicable
Volkswagen – Rabbit	[1975–1984]



#BM1276

**76mm Oil Filter Wrench**

- 3/8" Drive

MAKE / MODEL	YEAR RANGE
BMW – i3 "Range Extender"	[2014–2018]
BMW – Motorcycles	[2007–2016]
Mercedes – Factory Oil Filter with 12 flutes	

MAKE / MODEL	YEAR RANGE
BMW – i3 "Range Extender"	[2014–2018]
BMW – Motorcycles	[2007–2016]
Mercedes – Factory Oil Filter with 12 flutes	

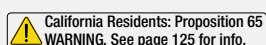


#HD1674

**Oil Filter Wrench for Harley-Davidson**

MAKE / MODEL	YEAR RANGE
Harley-Davidson Motorcycles	[1980–2016]

MAKE / MODEL	YEAR RANGE
Harley-Davidson Motorcycles	[1980–2016]







## #JA19015 90mm Oil Filter Wrench

- 15 Flats, 3/8" Drive

### MAKE / MODEL

### YEAR RANGE

Jaguar – XF	[2010–2018]
Jaguar – XFR	[2010–2016]
Jaguar – XJ	[2010–2018]
Jaguar – XJL	[2010–2016]
Jaguar – XK	[2010–2016]
Jaguar – XKR	[2010–2016]

### MAKE / MODEL

### YEAR RANGE

Land Rover – LR4	[2010–2018]
Land Rover – Range Rover	[2010–2018]
Land Rover – Range Rover Sport	[2010–2018]



## #JAS6514 65mm Oil Filter Wrench

- 14 Flat, 3/8" Drive

### MAKE / MODEL

### YEAR RANGE

Honda – All Models (except S2000)	[1990–2018]
Infiniti – M35	[2004–2007]
Infiniti – M45	[2004–2007]
Jaguar – F-Pace	[2017]
Jaguar – XE	[2017]
Jaguar – XF	[2017]
Kawasaki – Motorcycle	[1990–2009]
Land Rover – Range Rover Evoque	[2018]

### MAKE / MODEL

### YEAR RANGE

Mazda-3	[2012–2018]
Mazda-6	[2014–2018]
Mazda CX-3	[2016–2018]
Mazda CX-5	[2013–2018]
Mazda MX-5 Miata	[2016–2018]
Nissan – 350Z	[2002–2009]
Nissan – 370Z	[2010–2018]
Nissan – Altima	[1997–2018]
Nissan – Armada	[2004–2018]
Nissan – Cube	[2009–2014]
Nissan – Frontier	[1997–2018]
Nissan – GT-R	[2008–2018]

### MAKE / MODEL

### YEAR RANGE

Nissan – Juke	[2011–2018]
Nissan – Maxima	[1994–2018]
Nissan – Murano	[2002–2018]
Nissan – Pathfinder	[1995–2018]
Nissan – Quest	[2006–2018]
Nissan – Rouge	[2008–2018]
Nissan – Sentra	[2001–2018]
Nissan – Titan	[2003–2018]
Nissan – Versa	[2006–2018]
Nissan – Xterra	[2002–2016]
Yamaha – Motorcycle	[1990–2009]



#MO219

**74mm Oil Filter Wrench**

- 14 Flat, 22mm Hex Drive

California Residents: Proposition 65  
WARNING. See page 125 for info.

**MAKE / MODEL**      **YEAR RANGE**

Audi – A4 2.0 (turbo)	[2009–2016]
Audi – Q5 2.0 (turbo)	[2012–2016]
BMW Motorcycle – F650	All Applicable
BMW Motorcycle – F800	All Applicable
BMW Motorcycle – K75	All Applicable
BMW Motorcycle – K100	All Applicable
BMW Motorcycle – K1100	All Applicable
BMW Motorcycle – K1200GT	[2003–2004]
BMW Motorcycle – K1200LT	All Applicable
BMW Motorcycle – K1200R	All Applicable
BMW Motorcycle – K1200RS	[1996–2004]
BMW Motorcycle – K1200S	All Applicable
BMW Motorcycle – K1300	All Applicable
BMW Motorcycle – R850	All Applicable
BMW Motorcycle – R1100	All Applicable
BMW Motorcycle – R1150	All Applicable
BMW Motorcycle – R1200C	All Applicable
BMW Motorcycle – R1200CL	All Applicable
BMW Motorcycle – R1200GSW	[2013–2014]
BMW Motorcycle – S1000RR	All Applicable
Dodge – Avenger	[2012–2013]
Dodge – Caliber	[2012]
Dodge – Dart	[2013]
Dodge – Sprinter (gas engines)	[2003–2012]
Ford – Escape	[2006–2008]
Ford – Fusion	[2006–2008]

**MAKE / MODEL**      **YEAR RANGE**

Ford – Focus	[2004–2007]
Jaguar – XE (2.0L Turbo)	[2017]
Jaguar – XF (2.0L Turbo)	[2017]
Land Rover – Range Rover Evoque	[2013–2017]
Mazda – 3	[2004–2009]
Mazda – 5	[2006–2011]
Mazda – 6	[2003–2009]
Mazda – CX-7	[2007–2009]
Mazda – Mazdaspeed 3	[2007–2009]
Mazda – Mazdaspeed 6	[2006–2007]
Mercedes – M104	[1989–1999]
Mercedes – M119 engine	[1989–1999]
Mercedes – M111 engine	[1992–2003]
Mercedes – M112 engine	[1998–2006]
Mercedes – M113 engine	[1997–2010]
Mercedes – M120 engine	[1991–2002]
Mercedes – M137 engine	[1998–2002]
Mercedes – M155 engine	[2004–2006]
Mercedes – M272 engine	[2005–2015]
Mercedes – M273 engine	[2006–2015]
Mercedes – M275 engine	[2003–2014]
Mercedes – M276 engine	[2010–2015]
Mercedes – M285 engine	[2003–2012]
Mercedes – Sprinter (gas)	[1998–2015]
Porsche – 911	[1999–2008]
Porsche – Boxster	[1997–2008]

**MAKE / MODEL**      **YEAR RANGE**

Porsche – Caymen	[2005–2008]
Toyota – 4Runner	[1985–2002]
Toyota – Avalon	[1995–2002]
Toyota – Camry [V6]	[1988–2004]
Toyota – Highlander [V6]	[2001–2010]
Toyota – Previa	[1991–1997]
Toyota – Sienna	[1998–2007]
Toyota – Solara [V6]	[1999–2009]
Toyota – Supra	[1979–1998]
Toyota – T100	[1993–1998]
Toyota – Tacoma	[1995–2012]
Toyota – Tundra	[2000–2004]
Volkswagen – Beetle 2.5L	[2005–2014]
Volkswagen – CC	[2009–2013]
Volkswagen – EOS	[2009–2013]
Volkswagen – Golf	[1999–2005]
Volkswagen – GTI	[2008]
Volkswagen – Jetta 1.4 (turbo)	[2016]
Volkswagen – Tiguan	[2009–2016]





## #MO284 84mm Oil Filter Wrench

- 14 Flat, 22mm Hex Drive

California Residents: Proposition 65  
WARNING. See page 125 for info.

MAKE / MODEL	YEAR RANGE
Dodge – Sprinter	[2007–2009]
Freightliner – Sprinter	[2007–2018]
Jeep – Grand Cherokee	[2007–2008]
Mercedes – E 320 (BLUETEC)	[2007–2009]

MAKE / MODEL	YEAR RANGE
Mercedes – E 350 (BLUETEC)	[2011–2015]
Mercedes – GL 320 (BLUETEC)	[2009]
Mercedes – GL 350 (BLUETEC)	[2010–2015]
Mercedes – ML 320 (BLUETEC)	[2009]

MAKE / MODEL	YEAR RANGE
Mercedes – ML 350 (BLUETEC)	[2010–2015]
Mercedes – R 320 (BLUETEC)	[2009]
Mercedes – R 350 (BLUETEC)	[2010–2015]
Mercedes – S 350 (BLUETEC)	[2012–2015]
Mercedes – Sprinter	[2007–2017]



## #SU8015 80mm Oil Filter Wrench

- 15 Flats, 3/8" Drive

MAKE / MODEL	YEAR RANGE
Hyundai – Accent	[1995–2013]
Hyundai – Elantra	[1992–2013]
Hyundai – Excel	[1986–1994]
Hyundai – Genesis Coupe 2.0L	[2008–2012]
Hyundai – S Coupe	[1992–1994]
Hyundai – Santa Fe 2.4L	[2000]
Hyundai – Santa Fe 2.7L	[2000–2009]
Hyundai – Sonata	[1992–2012]
Hyundai – Tiburon	[2001–2008]
Hyundai – Tucson	[2004–2012]
Hyundai – Veloster	[2011–2013]
Hyundai – XG300	[2000–2005]

MAKE / MODEL	YEAR RANGE
Hyundai – XG350	[2000–2005]
Kia – Amanti	[2004–2006]
Kia – Forte	[2010–2018]
Kia – Niro	[2017–2018]
Kia – Optima	[2001–2018]
Kia – Rio	[2006–2012]
Kia – Rondo	[2007–2009]
Kia – Sorento	[2003–2018]
Kia – Soul	[2010–2018]
Kia – Spectra	[2004–2009]
Kia – Sportage	[2005–2018]
Nissan – Sentra	[1999]

MAKE / MODEL	YEAR RANGE
Scion – FR-S	[2013–2016]
Subaru – BRZ	[2013–2018]
Subaru – Forester	[2011–2016]
Subaru – Impreza WRX	[2016]
Subaru – Legacy (6-cyl.)	All Applicable
Subaru – Outback (6-cyl.)	All Applicable
Subaru – Tribeca	All Applicable
Subaru – WRX	[2015–2018]
Subaru – All 6-cyl. Engines	All Applicable



## #TOY640

## 64mm Oil Filter Wrench

- 14 Flats, 24mm Hex Drive

California Residents: Proposition 65  
WARNING. See page 125 for info.

## MAKE / MODEL

## YEAR RANGE

Lexus – CT 200h	[2011–2016]
Lexus – ES 350	[2007–2018]
Lexus – GS 300	[2006–2018]
Lexus – GS 350	[2007–2018]
Lexus – GS 450h	[2007–2018]
Lexus – GS 460	[2008–2011]
Lexus – GX 460	[2010–2018]
Lexus – HS 250h	[2010–2013]
Lexus – IS 250	[2006–2016]
Lexus – IS 250 C	[2010–2016]
Lexus – IS 350	[2006–2016]
Lexus – IS 350 C	[2010–2016]
Lexus – IS F	[2008–2014]
Lexus – LS 460	[2007–2016]

## MAKE / MODEL

## YEAR RANGE

Lexus – LS 600h	[2008–2016]
Lexus – LX 570	[2008–2018]
Lexus – RX 350	[2007–2018]
Lexus – RX 450h	[2010–2018]
Scion – tC	[2005–2016]
Scion – xA	[2004–2006]
Scion – xB	[2004–2016]
Scion – xD	[2008–2013]
Toyota – 4Runner	[2010–2019]
Toyota – Avalon	[2005–2019]
Toyota – Camry	[1983–2019]
Toyota – Corolla	[1983–2019]
Toyota – Echo	[2000–2005]
Toyota – FJ Cruiser	[2007–2014]

## MAKE / MODEL

## YEAR RANGE

Toyota – Highlander	[2001–2019]
Toyota – Matrix	[2003–2014]
Toyota – MR2	[1985–2005]
Toyota – Paseo	[1992–1997]
Toyota – Prius	[2001–2019]
Toyota – RAV4	[1996–2019]
Toyota – Sequoia	[2009–2019]
Toyota – Sienna	[2007–2019]
Toyota – Solara	[1999–2008]
Toyota – Tundra	[2007–2019]
Toyota – Venza	[2009–2016]
Toyota – Yaris	[2006–2019]



## #TOY647LG

64mm  
Oil Filter Wrench

- 14 Flats, 3/8" Drive

## MAKE / MODEL

## YEAR RANGE

Toyota – V6 and V8 models	[2005–2019]
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### #TOY730 73mm Oil Filter Wrench

- 14 Flat, 3/8" Drive

 California Residents: Proposition 65  
WARNING. See page 125 for info.

MAKE / MODEL	YEAR RANGE
Lexus – ES 250	[1990–1991]
Lexus – ES 300	[1992–2003]
Lexus – ES 300h	[2013]
Lexus – ES 330	[2004–2006]
Lexus – GS 300	[1993–2005]
Lexus – GS 400	[1998–2000]
Lexus – GS 430	[2001–2004]
Lexus – GX 470	[2004–2009]
Lexus – IS 300	[2001–2005]
Lexus – LS 400	[1990–2000]


MAKE / MODEL	YEAR RANGE
Lexus – LS 430	[2001–2006]
Lexus – LX 450	[1996–1997]
Lexus – LX 470	[1998–2007]
Lexus – RX 300	[1999–2003]
Lexus – RX 330	[2004–2006]
Lexus – RX 400h	[2006–2008]
Lexus – SC 300	[1992–2000]
Lexus – SC 400	[1992–2000]
Lexus – SC 430	[2002–2010]
Toyota – 4Runner 4.0L & 4.7L	[2003–2010]

MAKE / MODEL	YEAR RANGE
Toyota – FJ Cruiser 4.0L	[2007–2010]
Toyota – Land Cruiser	[1993–2007]
Toyota – Sequoia	[2001–2009]
Toyota – Tacoma	[2005–2013]
Toyota – Tundra	[2000–2010]



### #V410 86.5mm Oil Filter Wrench

- 16 Flat, 22mm Hex Drive

 California Residents: Proposition 65  
WARNING. See page 125 for info.

MAKE / MODEL	YEAR RANGE
BMW – [N20 engine]	[2011–2017]
BMW – [N52 engine]	[2006–2012]


MAKE / MODEL	YEAR RANGE
BMW – [N54 engine]	[2006–2012]
BMW – [N55 engine]	[2011–2017]

MAKE / MODEL	YEAR RANGE
Volvo – All models (exc. 2005 40 & 50 Series)	[1999–2006]



### #VB414 Oil Filter Wrench

- 16 Flat, 22mm Hex Drive

 California Residents: Proposition 65  
WARNING. See page 125 for info.

MAKE / MODEL	YEAR RANGE
Volvo – S60	[2015–2019]
Volvo 2.0L – S80	[2015–2019]

MAKE / MODEL	YEAR RANGE
Volvo 2.0L – V60	[2015–2019]
Volvo 2.0L – XC60	[2015–2019]

MAKE / MODEL	YEAR RANGE
Volvo 2.0L – XC70	[2015–2019]

**WARNING:**

These products can expose you to chemicals including Hexavalent Chromate, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

**Hexavalent Chromate***AST Tools with this warning:*

#MC240	Window Wrench
#MC114	Serpentine Belt Wrenches
#SU200T	Camshaft Pulley Holder
#3217	Fuel Sender Spanner

#JLR0197	Fuel Injector Puller
#MB164251	Fuel Pump Wrench
#3307	Fuel Pump Wrench

**WARNING:**

These products can expose you to chemicals including Bisphenol A (BpA), which is known to the State of California to cause birth defects or other reproductive harm.

**BPA***AST Tools with this warning:*

#OFCRY36	Engine Oil Funnel
#OFGMRD08	Engine Oil Funnel

#FUNCRY36	Funnel Adapter
#MW35	Hard Black Wedge Set

**WARNING:**

These products can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer.

**Lead and Nickel***AST Tools with this warning:*

#2175	Oil Filter Wrench
#M0219	74mm Oil Filter Wrench
#M0284	84mm Oil Filter Wrench
#TOY640	Oil Filter Wrench

#TOY730	Oil Filter Wrench
#VB414	Oil Filter Wrench
#HD1674	Oil Filter Wrench
#WSC15	Wire Soldering Clamp

**WARNING:**

These products can expose you to chemicals including Acrylonitrile & Styrene, which are known to the State of California to cause cancer and Butadiene, which is known to the State of California to cause birth defects or other reproductive harm.

**ABS***AST Tools with this warning:*

#OFFM2012	Engine Oil Funnel
#OFAAGM	Angled Funnel Extension
#OFH33	Funnel Extension
#OFHD35	Oil Funnel
#OFHD419	Oil Funnel

#OFH0N1033	Oil Funnel
#OFSU1042	Subaru Oil Funnel
#OFSU42	Subaru Adapter
#OFT38	Funnel Extension
#OFTOY1038	Threaded Toyota Oil Funnel

**WARNING:**

This product can expose you to chemicals including Acrylonitrile & Styrene, which are known to the State of California to cause cancer and Bisphenol A (BpA) & Butadiene, which is known to the State of California to cause birth defects or other reproductive harm.

**ABS and BPA***AST Tools with this warning:*

#FUN14KIT	Oil Funnel Set
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**WARNING:**

These products can expose you to chemicals including Nickel, which are known to the State of California to cause cancer.

**Nickel***AST Tools with this warning:*

#BMW2755	Intermediate Spring Tool
#BMW5585	Camshaft Bridge

**WARNING:**

These products can expose you to chemicals including Chromium and Lead, which are known to the State of California to cause cancer.

**Chromium and Lead***AST Tools with this warning:*

#201	Stud Puller Set	200-8	Stud Remover	200-7/16	Stud Remover
#201-7	Stud Puller Set	200-10	Stud Remover	200-1/2	Stud Remover
#202	Stud Puller Set	200-12	Stud Remover	200-9/16	Stud Remover
#203	Stud Puller Set	200-1/4	Stud Remover	200-5/8	Stud Remover
200-6	Stud Remover	200-5/16	Stud Remover		
200-7	Stud Remover	200-3/8	Stud Remover		



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