

**\*FZ 1002 COOLING SYSTEM ADAPTER SET FOR USE W/ ANY STANDARD STANT-STYLE PRESSURE TESTER. CONTAINS THE FOLLOWING ADAPTERS: \*BMW 345, \*BMW 350, \*FZ 22, \*FZ 25, \*FZ 41 & \*M 0349.**



**\*OFFM2012 FORD/MAZDA OIL FUNNEL USED ON NEWER FORD & MAZDA CARS EQUIPPED W/ 4-CYL. ENGINE. MADE OF DURABLE ABS PLASTIC. NO MORE MESS. ATTACHES DIRECTLY TO THE ENGINE OIL FILLER NECK/ VALVE COVER.**



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





SPECIALTY TOOLS FROM ASSENMACHER ARE DESIGNED & TESTED W/ THE AUTOMOTIVE TECHNICIAN IN MIND. WE STRIVE TO MAKE THE JOB EASIER. SERVICE APPOINTMENTS ARE SCHEDULED AT DEALERSHIPS OR INDEPENDENT SHOPS. THE TECHNICIAN PLACES THE MOTOR IN POSITION TO GIVE US AN OPPORTUNITY TO VERIFY THE FIT & ACCURACY OF THE TOOLS. OUR TOOLS INCLUDE INSTRUCTIONS & DETAILED IMAGES OF THE TOOLS IN USE. WE PROVIDE HELPFUL TIPS APPLICABLE TO THE JOB-OUR INSTRUCTIONS PROVIDE THE MOST CURRENT INFORMATION TO OUR KNOWLEDGE.



MANY PRODUCTS FROM AST ARE MADE IN U.S.A. INCLUDING OUR COOLING SYSTEM ADAPTERS, ENGINE OIL FUNNELS & MANY ENGINE ALIGNMENT TOOLS. THOSE THAT WORK IN U.S. MANUFACTURING ARE CONSUMERS IN OUR LOCAL STATES & CITIES. IF THESE PEOPLE CONTINUE TO MANUFACTURE GOODS, THEY WILL CONTINUE TO MAKE LOCAL PURCHASES & SUPPORT THEIR LOCAL ECONOMIES. AS LONG AS BUSINESSES THRIVE, THEY WILL REQUIRE GOODS & SERVICES THAT MEET THEIR DAILY NEEDS. INDEPENDENCE AS A SOCIETY REQUIRES THE SKILL, ABILITY & KNOWLEDGE TO MAKE THINGS OURSELVES.

**LEGEND**

These icons are printed throughout for your reference

-  **MADE IN ENGLAND**
-  **MADE IN GERMANY**
-  **MADE IN USA**
-  **SEE DIAGRAM ON PAGE\***

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**#ATF 1300-5**  
**13-PIECE DRIVE LINE FILLER SYSTEM**

For filling fluids in transmission, differentials & transfer cases. Set includes pump, 5 liter container, hose, shut-off valve & the following adapters: #ATF 101 (FORD), #ATF 102 (BMW, HONDA, NISSAN & many other universal applications), #ATF 10H, #ATF 103, #ATF 16 DSG & #ATF 17 CVT (VW/AUDI), #ATF 104 (VW/Audi & 1999-newer PORSCHE), #ATF 105 (MINI Cooper & VW/Audi), #ATF 129 (MERCEDES 722.9 transmissions), #ATF 108V (VOLVO), #ATF 180 (INFINITI), #ATF SU100 (universal applications) & #ATFTOY118 (TOYOTA).

NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS



**#TOY 300**  
**TOYOTA OIL FILTER WRENCH SET**

Includes our tools: #TOY 640, #TOY 730 & #M 0219. With the #TOY 300 you have every gas engine TOYOTA & LEXUS model covered between 1980 & 2013.



**STUD REMOVER & INSTALLER TOOLS**



**#200-7**  
**STUD REMOVER**  
 • MULTIPLE APPLICATIONS  
 • INCLUDED W/ #201-7 SET  
 • IDEAL FOR BMW MANIFOLD STUDS



**#201**  
**4 Pc. METRIC STUD PULLER SET**  
 Stud remover & installer set. Includes 6mm, 8mm, 10mm & 12mm stud remover & installer tools.

**#202**  
**5 Pc. STANDARD STUD PULLER SET**  
 Stud remover & installer set. Includes 1/4, 5/16, 3/8, 7/16, & 1/2 inch stud remover & installer tools.

**#201-7**  
**5 Pc. METRIC STUD PULLER SET**  
 5-Piece set includes the new 7mm Stud Remover, Ideal for BMW Manifold Studs. Includes 6mm, 7mm, 8mm, 10mm & 12mm stud remover / installers.

**#203**  
**7 Pc. STANDARD STUD PULLER SET**  
 Stud remover & installer set. Includes 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, & 5/8 inch stud remover & installer tools.

**Individual Stud Removers/Installers**  
 #200-9/16 & #200-5/8 are 27mm Hex, No Square Drive

6mm	7mm	8mm	10mm	12mm	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"
200-6	200-7	200-8	200-10	200-12	200-1/4	200-5/16	200-3/8	200-7/16	200-1/2	200-9/16	200-5/8

**Parts Kit for Stud Removers/Installers**

60	70	80	100	120	250	312	375	437	500	562	625

Stud removers produced between [2004-2014] are under warranty. The production year is stamped on the stud remover. If the external body is damaged please return the stud remover for warranty. If only the internal parts of the stud puller need replacing, simply call & specify the AST product number of the stud puller. If the production date is in the range of [2004-2014], we will send out internal replacement parts at no charge. The table (above) indicates replacement numbers for the internal parts.



#6506

**VW/AUDI AXLE NUT SET**

Contains: #6500-14, #6500-17, #6500 X-18, #6500 X-24, #6500 X-30 & #6500 X-32. The 14mm allen is used for **VW** Passat [1996-2001] & **AUDI** A4 front & rear axle bolts (AWD), the 17mm allen for [1998-2005] VW Passat, [1999-2009] Audi A4 front & rear axle bolts (AWD) & [1999-2009] A6 front axle bolts, the 30mm 12-point socket is for [mid 1999-2005] VW Golf, Jetta, Cabrio & Beetle front axle nut & the 32mm 12-point socket w/ a 3/4" drive, VW Touareg; front & rear axle nuts.



#6300 **VW/AUDI 12-POINT SOCKET BIT SET**

7-Piece set includes: #6300 XL-14 (R & R of late model Eurovan axle shafts & balljoints), #6300 XL-8 (R & R of axle shaft bolts on **VW** Beetle, Jetta TDI & older VW/Audi models), #6300 XL-10 (R & R of axle shaft bolts on [1999-2005] VW Passat & Golf), #6300 X-16 (R & R of manual transmission drain plug & VW Touareg/**PORSCHE** Cayenne brake caliper bolts), #6300 X-12 (R & R of axle shaft bolts on [1999-2005] VW Jetta (gas) & rear toe adjustment on [1999-later] **AUDI** A6), #6300 X-14 (for R & R of Audi TT differential bracket & for bell housing bolts w/ tight clearance on various VW models) & for assisting R & R of strut housing on newer VW & Audi TT.



#6300 X-16 SHOWN HERE IN USE



#3200 **DOOR & HINGE HANDLE SET**

A compact solution to accessing the special fasteners found on the door hinges & handles of **VW/AUDI, MERCEDES, & PORSCHE.** Includes: five door hinge/handle bits (less than an inch long) & a slender ratcheting wrench. Also included are the extra long drivers necessary to access the door handles of Mercedes-Benz & VW.



**4-Pc. SOCKET BIT SET #3000-4 K**



Allen socket bit set includes: 4mm, 5mm, 6mm & 8mm 1/4" drive sockets.

**6-PIECE SOCKET BIT SET #3000-6 K**



Allen socket bit set includes: 2.5mm, 3mm, 4mm, 5mm, 6mm & 8mm 1/4" drive sockets.

**4-Pc. 12-PT. 1/4" DRIVE SET #3004X**



Socket set includes: 4mm, 5mm, 6mm & 8mm sockets. 1-Piece steel construction.

#S 100 **JET REAMER SET**



16-Piece set w/ a 0.33mm-2.0mm range. Applicable: **PORSCHE, VW/AUDI** models & motorcycles w/ carburetors.

#3900 **5 LOBE TAMPERPROOF BIT SET**



5 Lobe bits & a 1/4" drive. Includes: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 & T-50

#2101

**7-PC. OIL FILTER WRENCH SOCKET SET**

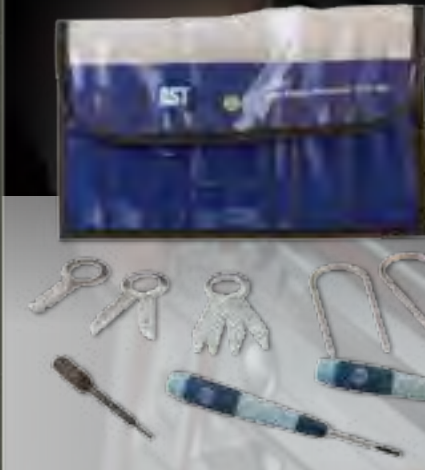
Contains oil filter wrench sockets for many domestic & foreign applications. Set covers all **MERCEDES** applications. The 27mm, 32mm & 36mm hex sizes cover **VW/AUDI, BMW,** newer Mercedes 4-cyl. engines, **SATURN & GM** 2.2 L Ecotec engines. Covers **FORD** Escape Hybrid & Ford OEM #FL 910 & #FL 793. The four cup-style wrenches cover many VW, BMW, **TOYOTA & MAZDA** 3. Also covers **DODGE** Sprinter & **JEEP** 3.0L CRD engines & [1999-2013] **VOLVO.**



#3101

**8-PC. RADIO REMOVAL SET**

Includes the #2040, #BMW 050, #3344 A (two pairs), #M 2070, #3316, #BMW 025 & the #BMW 010. Applicable: **FORD & VW** w/ DIN chassis, **BMW** w/ anti-theft radio, **AUDI** A4, A6, A8 & VW Beetle, [1992-later] Mercedes 129, 140, 163, 202 & 210 models, VW Passat, Jetta & Golf, center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39).



#3000

**40-PIECE SOCKET SET**

1/4" Socket Set. Contains: T6-T45 6-point Tamperproof Torx®; T10-T50 6-point standard Torx®; 4mm, 5mm, 6mm & 8mm 12-point; 2.5, 3, 4, 5, 6 & 8 Allen drivers; 5/32"-5/16" straight blade drivers; #1, #2 & #3 Phillips drivers.





**#6800TDI  
TDI TIMING  
BELT TOOL SET**



For setting & adjusting the cam/crank/pump timing on [1999–2011] **VW** TDI engines. Contains the #3359 TDI Lock Pin, #3428 TDI Cam Lock Bar, #T 10050 Crankshaft Stop, #T 10100 Oval Pulley Crankshaft Stop, #T 10115 Tensioner Lock Pins, #VW 87-1 & #VW 87-2 Timing Belt Tensioner Spanner Wrenches. Most tools are made in USA.

FOR 2009–2011 VW TDI, ORDER ONE ADDITIONAL #3359



**#BMW 462 TU  
M62TU [V8] DOUBLE  
VANOS TIMING SET**



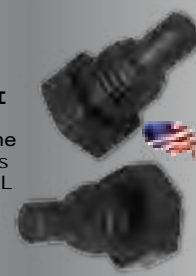
Includes the following comparable BMW tools: [#113310] 2 locking pins used for the secondary chain tensioner to lock tensioner pistons into place (when removing & installing sprockets); [#114230] Chain tensioner tool for tensioning the primary chain; [#115180] TDC pin for setting the flywheel at TDC on X5 models; [#116450] VANOS Locking fixtures for fixing the camshaft sensor wheel in position during assembly; [#116440] VANOS adjusting pin wrench socket used for adjusting the VANOS to left stop during assembly as well as for adjusting valve timing; [#117380] Tensioning bracket used for screwing in the chain tensioner w/ the top right timing case removed. Applicable: **BMW** 540i [1999–2003], 740i [1999–2001], 740iL [1999–2001] & X5 [2000–2003]. Used in conj. w/ #BMW 480 & #BMW 400-1. Most tools are made in USA.



**#7200-4**

**PINS**

For use w/ #7200 Camshaft Pulley Holding set or #7200 HOLDER. Applicable: **DODGE** Durango & **GM** Vortec engine. Holds Dodge Durango camshaft gears on the [2000–2009] 4.7L [V8] & holds GM water pump pulley on 4.2L straight 6 Vortec motors.

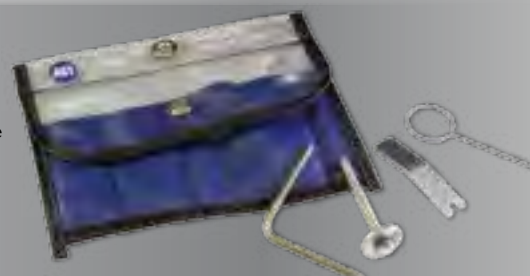


AVAILABLE SEPARATELY, NOT INCLUDED IN #7200. MUST PURCHASE 2 TO MAKE A PAIR

**#6700**

**VW/AUDI 1.8T TENSIONER HOLDER SET**

Contains: #6700-1 Tensioner Bolt & Washer, the #6700-2 Tensioner Locking Plate, the #6700-3 Tensioner Lock Pin, & the #6700-4 Holding Rod. Used for holding the timing belt tensioner & the accessory belt tensioner. Applicable: **VW/AUDI** w/ 1.8L & 2.0L turbo motors.



**#BMW 5260**

**LOCATING FIXTURE & CLAMPS**

Used for locating the upper & lower cam bearing strip when installing the exhaust camshaft. Applicable: **BMW** 128i [2008–2012], 325i [2006], 325xi [2006], 330i [2006], 330xi [2006], 328Cic [2007–2012], 328i [2007–2012], 328xi [2007–2012], 525i [2006–2007], 525xi [2006–2007], 530i [2006–2007], 528i [2008–2010], 528xi [2008–2010], 530xi [2006–2007], X3 3.0i [2007–2010], X3 3.0si [2007–2010], Z4 3.0i [2006–2008], Z4 3.0si [2006–2008] & Z4 30i [2009–2011].

COMPARABLE TO BMW #114460



#BMW 5260 SHOWN HERE IN USE



**#7200  
CAMSHAFT PULLEY  
HOLDER**



Applicable: belt-driven 4, 6 & 8-cyl. **TOYOTA**, 1.8L, 2.0L turbo, 2.0L BBW, 2.5L, 3.2L **VW/AUDI** & multiple **VOLVO** models. Comes w/ 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°. Holding pins are made in USA. For **GM** & **DODGE** coverage, you'll also need to purchase two #7200-4 pins.



**#BMW 3028  
BMW TIMING SET**



For engine timing on newer **BMW** (N51/N52) 3.0L (non-turbo) & (N54) 3.0L (twin turbo only). Applicable: N51/N52 engines in: 128i [2008–2012], 325i [2006], 325xi [2006], 330i [2006], 330xi [2006], 328Cic [2007–2012], 328i [2007–2012], 328xi [2007–2012], 525i [2006–2007], 525xi [2006–2007], 530i [2006–2007], 528i [2008–2010], 528i [2011], 528xi [2008–2010], 530xi [2006–2007], X3 3.0i [2007–2010], X3 3.0si [2007–2010], X3 xDrive 28i [2011–2012], X5 3.0i [2007–2010], Z4 3.0i [2006–2008], Z4 3.0si [2006–2008] & Z4 3.0i [2009–2011]. N54/N55 engines in: 135i [2008–2012], 335Cic [2007–2012], 335i [2007–2012], 335is [2011–2012], 335xi [2007–2012], 535i [2008–2012], 535xi [2008–2010], 640i [2012], 740i [2011–2012], 740Li [2011–2012], X3 xDrive 35i [2011–2012], X5 xDrive 35i [2011–2012], X6 [2008–2010], X6 xDrive 35i [2011–2012], Z4 35i [2009–2012] & Z4 35is [2011–2012].

[2011–LATER] MODELS W/ N55 ENGINE REQUIRE THE USE #114285. COMPARABLE: BMW #110300, #114280, #114290 & #118520





**#BMW 6208  
BMW ENGINE  
TIMING TOOL SET**



Used to set timing on cams of both cyl. heads. Includes hold down tool for cam fixtures & crankshaft timing pin. Applicable: N62, N62TU & N73 engines, including **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 & \*119463



**#MC 1400  
MINI COOPER ENGINE TIMING SET**



Used on the N14 turbocharged engines [2007-2010]. Consists of the following factory tools: \*119550 & \*119590. For N12 & N16 non-turbo engines, you need the \*MC 1216 camshaft timing set.

MAY REQUIRE THE FOLLOWING ADDITIONAL TOOLS: \*BMWMC280 & \*BMW 6222



\*FM 2330 SHOWN HERE IN USE

**#FM 2330 3-Pc. MAZDA/FORD 2.3L TIMING SET**

For use on all of the 2.3L engines (turbo & naturally aspirated). Applicable: **MAZDA** 3 [2004-2012], 5 [2006-2012], 6 [2003-2012], Mazdaspeed 3 [2007-2012], Mazdaspeed 6 [2006-2007], Miata [2006-2012] & CX-7 [2007-2012]; **FORD** Escape [2005-2011], Focus [2003-2011], Fusion [2006-2011] & Ranger [2001-2011].

COMPARABLE: \*303-507 (CRANK PIN), \*303-465 (CAM BAR) & \*303-1061 (TURBO CAM PLATE)



**#VW 4006 VW/AUDI PULLER SET**

Puller used to remove cam sprockets. Applicable: **VW** 4-cyl. TDI, VW/Audi [V6] (5v) & **AUDI** [V8] (40v). Also includes both arms for 2.0L (4v) Direct Injection Engines (BPY) (BPG) (BWT). Includes: 18mm, 23mm & 25mm pulling arms



**#MC 1216  
MINI COOPER  
CAMSHAFT  
ALIGNMENT TOOL**

Applicable: [2007-2013] **MINI** Cooper models w/ the N12 & N16 (non-turbo) engines. Additional tools required are the \*BMWMC280, \*BMW 6222 & \*MC 1400-1.

COMPARABLE: MINI \*119540



Includes the following tools: \*T 40011, \*T 40026, \*T 40028 & \*T 40030. Used to hold & align the camshafts. Applicable: **AUDI** 3.0L [V6] (5v), used in A4 [2002-2005] & A6 [2002-2004].



**#T 4306  
AUDI 3.0L TIMING TOOL SET**





**#VW 133 SI**  
**INJECTOR/CHAMBER TOOL SET**



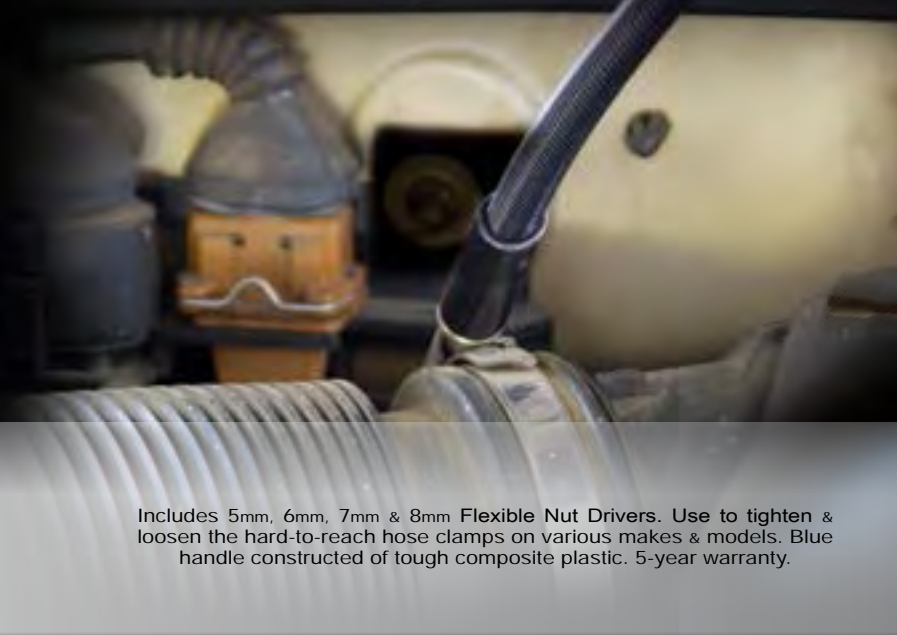
Used to remove & install high pressure injectors. Also used to install combustion chamber seal on **VW/AUDI**.  
Applicable: Audi: A3 [2006-2009] 2.0L (4v) turbo, A4 [2005-2008] 2.0L (4v) turbo, [2009] 2.0L (4v) turbo, [2005-2008] 3.2L [V6] (4v), [2008] 4.2L [V8] (4v), A5 [2008-2009] 3.2L [V6] (4v) & [2008-2009] 4.2L [V8] (4v), A6 [2005-2008] 3.2L [V6] (4v), [2009] 3.0T [V6] (4v) turbo & [2005-2009] 4.2L [V8] (4v), A8/A8L [2007-2009] 4.2L [V8] (4v) & [2007-2009] 5.2L 10-cyl. (4v), Q7 [2007-2009] 3.6L [V6] (4v) & [2007-2009] 4.2L [V8] (4v), R8 [2008-2009] 4.2L [V8] (4v), RS4 [2007-2008] 4.2L [V8] (4v), S4 [2005-2008] 2.0L (4v) turbo & [2008] 4.2L V8 (4v), S5 [2008-2009] 4.2L [V8] (4v), S6 [2007-2011] 5.2L 10-cyl. (4v), S8 [2007-2009] 5.2L [V10] (4v) & TT [2008-2009] 2.0L (4v) turbo & [2008-2009] 2.0L (4v) turbo. VW: Eos [2007-2009] 2.0L (4v) turbo, Golf [2006-2009] 2.0L (4v) turbo, Jetta [2005-2009] 2.0L (4v) turbo, Passat [2006-2008] 2.0L (4v) turbo, [2006-2009] 2.0L (4v) turbo & [2006-2009] 3.6L [V6] (4v) turbo (BLV), Tiguan [2009] 2.0L (4v) turbo & Touareg [2007-2009] 3.6L [V6] (4v) & [2007-2009] 4.2L [V8] (4v).

**VW/AUDI TURBO TIMING SET #VW 20T**

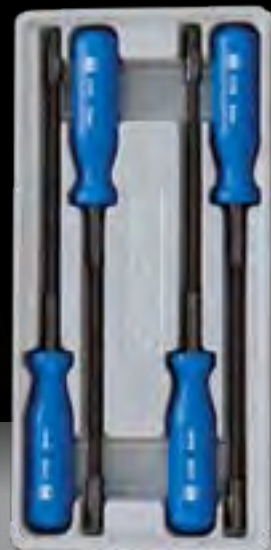
For [2009-newer] **VW/AUDI** w/ 2.0L (turbo). Includes: \*T 40267 locking clips, \*VW 10352 assembly tool, \*T 40271 camshaft clamps, \*T 10355 crank counter hold tool, \*T 40196 drifts for camshaft pieces, \*T 10368 crankshaft thrust pieces.



**#3700 4-PIECE FLEX NUT DRIVER SET**



Includes 5mm, 6mm, 7mm & 8mm Flexible Nut Drivers. Use to tighten & loosen the hard-to-reach hose clamps on various makes & models. Blue handle constructed of tough composite plastic. 5-year warranty.



**#FZ 1002**  
**COOLING ADAPTER SET**

Use w/ any standard Stant-Style pressure tester. Contains the following adapters:  
\*BMW 345, \*BMW 350, \*FZ 22, \*FZ 25, \*FZ 41 & \*M 0349. Applicable to most European vehicles.



**#8110**  
**10-PC. LINE DISCONNECT SET**



Includes: \*8010, \*8012, \*8013, \*8014, \*8016, \*8021, \*8022, \*8023, \*8024, & \*8026.



#V 500

**VOLVO CAMSHAFT & CRANKSHAFT ALIGNMENT SET**

For the alignment of the camshafts & crankshafts on all Volvo in-line 4, 5 & 6-cyl. twin cam motors through 2011, exc. the 3.0L & 3.2L. May also be used to align the camshafts w/ the cam cover. Cam & crankshaft alignment fixtures are made in USA.

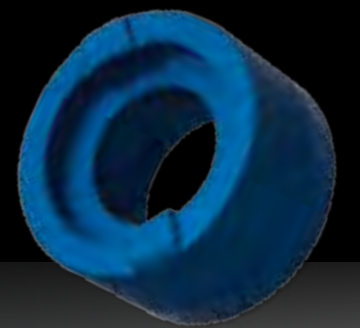
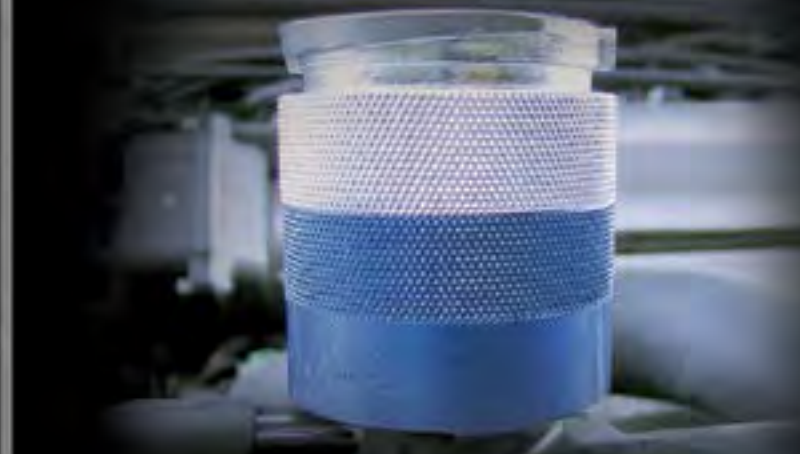
Applicable engines: B6254GS, B6294T, B5234T4, B6294S2, B5244S6, B5204T2, B5234FS, B4184S2, B5254FS M 4.4, B4204T2, B5244S4, B5254T, B5234T9, B4204T3(US)(CDN), B6304S3, B5204T4, B5244S5, B5204T3, B5204FS, B5252FS, B5254FS M 4.3, B4194T, B6294S, B5244T4, B6254FS, B4184S, B5234T6, B5234T2, B6304FS2, GB5252S, B4204S2, B4204T, B5244S2, B5204T5, B5244T7, B4184S9, B4204T4, B6284T, B5234T5, B6304FS, B4204T3, B5244SG2, B6244FS, B4184SJ, B4204T2 CVVT, B6304GS, B5254T4, B4184S3, B5234T3, B5244T2, B5244T3, B5244T5, B5254T2, B4204S, B5244S7, B5204FT, B5234FT, B5234T8, B5234T7, B5244S, B4184S10, B4194T2, B5254T3, B5254S DENSO, B4164S, B5254FS LH 3.2, B5244SG, B5244T, B4204T5, B5202FS, B4164S2 & D4192T2.

COMPARABLE VOLVO: \*9995451, \*9995452, \*9995453 & \*9995454



#FZ 580

**COOLING SYSTEM ADAPTER SET**



Using the threaded rings & one base, all small-neck tab style radiators & expansion tanks can be pressurized w/ this tool. Simply thread on the taller or shorter ring to accommodate a shallow or deep neck. Applicable: many different Asian & Domestic vehicles. Fits both deep & shallow radiator necks.



#30 T-7  
7-PIECE TORX® SET



SOCKET SHOWN HERE IN USE

Includes the #30 T-10, #30 T-15, #30 T-20, #30 T-25, #30 T-27, #30 T-30, #30 T-40 & Organizer.

#JLR 4042  
JAGUAR / LAND ROVER TIMING SET



Engine timing tool set used on **JAGUAR** 4.0L & 4.2L [1998-2009] & **LAND ROVER** 4.4L [2005-2009] [V8] engines. Timing blocks made in USA.





**\*BMW 6208**  
**BMW ENGINE TIMING TOOL SET**

Used to set camshaft timing on both cyl. heads. Includes hold down tool for cam fixtures & crankshaft timing pin.

Applicable: N62, N62TU & N73 engines: [2003-2005] 745i, 745Li; [2003-2008] 760Li; [2004-2005] 545, 645Ci; [2004-2010] X5; [2005-2006] 760i; [2006-2007] 550; [2006-2008] 750i, 750Li; [2006-2010] 650i; [2007-2008] Alpina B7; [2008-2010] 550i.

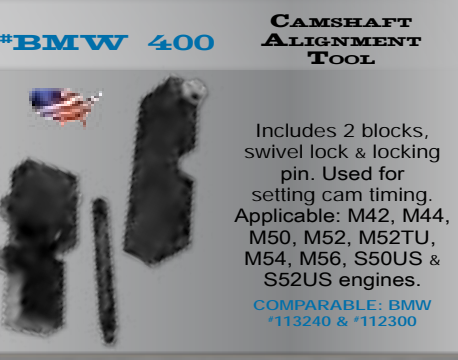
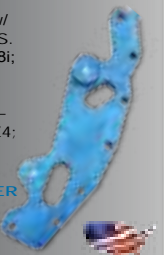
COMPARABLE: BMW \*119190, \*119340, \*119461, \*119462 & \*119463



**\*BMW 520** **VANOS ADJUSTMENT FIXTURE**

Used during install. of cyl. heads or camshafts on 1999-2005 BMW w/ M52TU, M54 & M56 eng. & twin VANOS. Applicable: [1999-2000] 323i, 328i, 528i; [1999-2002] Z3; [2000] 323iT, 328Ci; [2001-2003] 525i, 530i; [2001-2005] 323Ci, 325i, 330i, 330xi, 325xi; [2001-2006] 325Ci, 330Ci, X5; [2003-2005] Z4; [2004-2005] 525, 530; [2006] X3.

BOTH THE \*BMW 400 CAM ALIGN TOOL & \*BMW 522 CHAIN TENSIONER TOOL ARE ALSO REQUIRED. COMPARABLE: BMW \*116150



**\*BMW 400** **CAMSHAFT ALIGNMENT TOOL**

Includes 2 blocks, swivel lock & locking pin. Used for setting cam timing. Applicable: M42, M44, M50, M52, M52TU, M54, M56, S50US & S52US engines.

COMPARABLE: BMW \*113240 & \*112300



**\*SP1412** **SPARK PLUG SOCKET**

14mm, 12-Point spark plug socket w/ 3/8" drive. Applicable: [2007 & newer] BMW 135, 335, 535 & X6 w/ 3.0L (twin-turbo); [2007 & newer] turbocharged MINI Cooper.

SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION. COMPARABLE: BMW \*121220



**\*BMW 012** **E12 HEADBOLT SOCKET**

Used on BMW E12 headbolts.

COMPARABLE: BMW \*116180

**\*H 2223** **TORX SOCKET LG T-30**



70mm long. For R & R of the airbag from the steering wheel. Applicable: many BMW, MERCEDES, SAAB & VW models.

**\*BMW 432** **VANOS SOLENOID SOCKET**



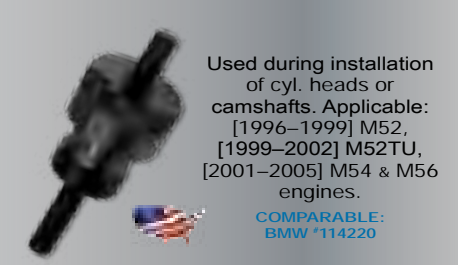
32mm socket used for removing & installing the VANOS solenoid valves. Applicable: [1999-2005] M52TU, M54 & M62TU engines.

**\*BMW 518** **SPROCKET TURNER**



For turning sprockets when removing & installing VANOS adjustment unit on M50, M52, S50US, & S52US engines.

**\*BMW 522** **CHAIN TENSIONER TOOL**



Used during installation of cyl. heads or camshafts. Applicable: [1996-1999] M52, [1999-2002] M52TU, [2001-2005] M54 & M56 engines.

**\*BMW 524** **SPROCKET ALIGNMENT PLATE**



Allows for pre-alignment of cam gears prior to installation on engine. Used on BMW M52TU, M54 & M56 engines w/ double VANOS. Applicable: M54, M52TU & M56 engines.

**BMW CHAIN TENSIONER TOOL** **\*BMW 6222**



Used for tensioning the timing chain when adjusting the engine timing. Applicable: N12, N14, N16, N18, N40, N42, N45, N46, N52 & N54.

COMPARABLE: BMW \*119340

**BMW INTERMEDIATE LEVER TOOL** **\*BMW 2752**



Used for removing & installing the pressure springs for the intermediate levers. Applicable: N52 engines w/ 55.2mm intermediate levers.

**CRANKSHAFT HOLDER** **\*BMWMC280**



Used for crankshaft when releasing or tightening the central bolt. Applicable: BMW & MINI Cooper (N12, N14, N16, N18, N51 & N52).

COMPARABLE: BMW \*119280 & \*83 30 0493940.

**BMW [V8] CAMSHAFT ALIGNMENT TOOL** **\*BMW 480**



For M60, M62 & M62TU eng. Inc. 4 blocks (2 for each side) & 2 locking fixtures for setting cam timing.

Applicable: BMW [1994-1995] 530i, [1997-2003] 540i, [1997-1998] (M62) 540i, [1999-2003] (M62TU) 540i, [1993-2001] 740i, [1993-2001] 740iL, [1995-1996] 840Ci & [2000-2003] X5.

TDC FLYWHEEL LOCKING PIN \*BMW 400-1 MUST BE PURCHASED SEPARATELY & IS NOT INCLUDED W/ \*BMW 480. COMPARABLE: BMW \*112440.



**\*BMW 3028**  
**BMW TIMING SET**



Engine alignment tools for newer BMW (N51/N52) 3.0L (non-turbo) & (N54) 3.0L (twin-turbo). Applicable N51/N52 engines: [2008-2012] 128i, [2006] 325i, 325xi, 330i, 330xi; [2006-2007] 525i, 525xi, 530i, 530xi; [2006-2008] Z4 3.0i, Z4 3.0si; [2007-2010] X3 3.0i, X3 3.0si, X5 3.0i; [2007-2012] 328Ci, 328i, 328xi; [2008-2010] 528xi, 528i; [2008-2012] 128i; [2009-2011] Z4 30i; [2011] 528i; [2011-2012] X3 xDrive 28i. Applicable N54/N55 engines: [2007-2012] 335Ci, 335i, 335xi; [2008-2010] 535xi, X6; [2008-2012] 135i, 535i; [2011-2012] 335is, 740i, 740Li, X3 xDrive 35i, X5 xDrive 35i, X6 xDrive 35i, Z4 35i; [2009-2012] Z4 35i.

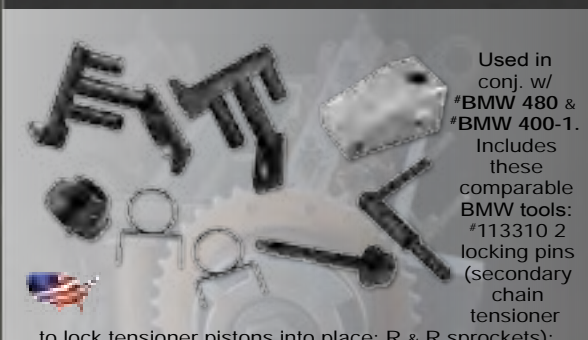
COMPARABLE: BMW \*110300, \*114280, \*114290 & \*118520

**FUEL LEVEL SENSOR LOCK RING TOOL** **\*BMW 4622**



Used to remove the fuel level lock ring. Applicable: BMW & MINI Cooper (1988-2013): E31, E34, E36, E38, E39, E46, E53, E60, E63, E64, E65, E83, E85, E90, R50, R52, R53, R55, R56 & R57.

COMPARABLE: BMW \*161020



**\*BMW 462 TU**  
**M62TU [V8] DOUBLE VANOS TIMING SET**

Used in conj. w/ \*BMW 480 & \*BMW 400-1. Includes these comparable BMW tools: \*113310 2 locking pins (secondary chain tensioner to lock tensioner pistons into place; R & R sprockets); \*114230 Chain Tensioner (tensioning primary chain); \*115180 TDC pin (setting flywheel TDC on X5); \*116450 VANOS Locking Fixtures (cam sensor wheel position during assembly); \*116440 VANOS Adjusting Pin Wrench Socket (adjusting VANOS to left stop during assembly & adjusting valve timing); \*117380 Tensioning Bracket (screwing chain tensioner w/ top right timing case removed). Applicable: BMW 540i [1999-2003], 740i [1999-2001], 740iL [1999-2001] & X5 [2000-2003].





#3700

4-PIECE FLEX NUT DRIVER SET



Includes 5mm, 6mm, 7mm & 8mm flexible nut drivers. Used to tighten & loosen the hard-to-reach hose clamps on various makes & models. Blue handle constructed of tough composite plastic. 5-year warranty.

#6500 T-80 T-80 TORX SOCKET



1/2" Drive, Tamperproof used on BMW for R & R of drivers side wiper arm on E31, E38 & E39 chassis. Also fits LAMBORGHINI wheel lug nuts/bolts on Gallardo models.

#BMW 190 CAMBER SETTING TOOL



Used for setting front camber on BMW chassis E38, E39, E46, E53, E65, E66, E67, E82, E83, E85, E86, E87, E88, E90, E91, E92 & E93.

#S 1578 K-2 BMW E46 TERMINAL TOOL



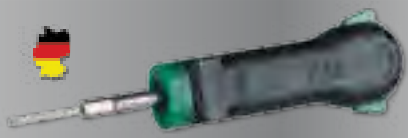
Used for extracting terminals from a connector on the tail light wiring harness. Applicable: [1999-2005] BMW E46, 3 Series.

#S 1556 N WIRE TERMINAL EXTRACTOR



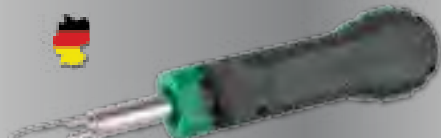
Used to remove flat terminals w/ two release tangs from the connector plug. 1mm wide, 2.5mm apart & 12.15mm long.

#S 1553 N WIRE TERMINAL EXTRACTOR



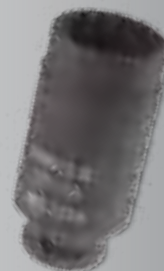
Used to remove flat terminals w/ one release tang from the connector plug. 1.5mm Wide, fits connectors 2.8mm-5.8mm wide. COMPARABLE: VW VAS1978/29

WIRE TERMINAL EXTRACTOR #S 1591 N



Used to remove flat terminals w/ two release tangs from the connector plug. 1.65mm wide, 2.8mm apart & 18mm long. COMPARABLE: VW VAS1978/18

#100-30 A 30MM DEEP SOCKET



30mm deep thin-walled socket. Used for R & R of transmission drive shaft flange nut & pinion shaft flange nut of differential. Applicable: many BMW models including E90 325 (RWD) 30mm axle nuts.

#6500 X-36 36MM, 12-PT. SOCKET



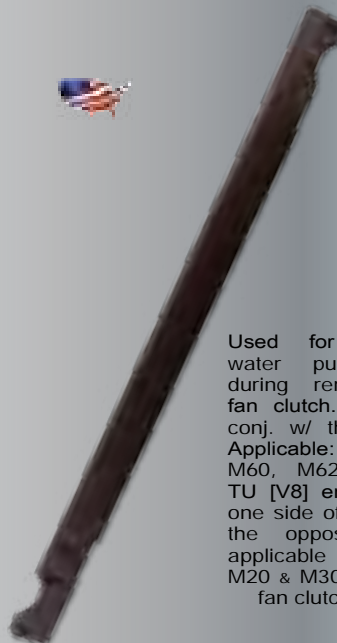
3/4" Drive. For R & R of axle nuts. Applicable: BMW E38, E39, E46, E53, X5 (front & rear), new 5 Series E60 & E90 (AWD) 36mm front & rear.

#BMW 140 CAMBER SETTING TOOL



Used for setting front camber on BMW chassis E60, E61, E63 & E64.

#BMW 2280 BMW WATER PUMP HOLDER



Used for holding water pump hub during removal of fan clutch. Used in conj. w/ the #8032. Applicable: BMW M60, M62 & M62 TU [V8] engines on one side of this tool, the opposite side applicable to M10, M20 & M30 w/ 32mm fan clutch nuts.

8-PC. RADIO REMOVAL SET #3101



Includes the #2040, #BMW 050, #3344 A (includes two pairs), #M 2070, #3316, #BMW 025 & the #BMW 010. Applicable: FORD & VW w/ DIN chassis, BMW w/ anti-theft radio, Audi A4, A6, A8 & VW Beetle, [1992 & later] MERCEDES 129, 140, 163, 202 & 210 models, VW Passat, Jetta & Golf, center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39). Most components made in USA.

BMW CLUTCH CENTERING TOOL SET #BMW 6244

4-Piece set for centering the clutch disc on the flywheel while installing the self adjusting clutch (SAC). Applicable transmissions: S5D-200G, S5D-250G, S5D-260Z, S5D-310Z, S6S-420G, S6S-560G, GS6-37BZ, GS6-37DZ, GS6-53BZ & GS6-53DZ.

COMPARABLE: BMW #212141, #212142, #212200 & #212230

32MM FAN CLUTCH WRENCH #8032



32mm x 380mm long wrench used for the R & R of any 32mm fan clutch nuts. Steel construction. Applicable: VW, AUDI & BMW models w/ 32mm fan clutch nuts.



#BMW 5260

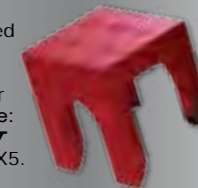
LOCATING FIXTURE & CLAMPS



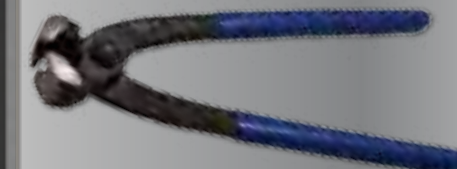
Used for locating the upper & lower cam bearing strip when installing the camshaft on BMW models w/ N51 & N52 engines. Applicable: [2006] 325i, 325xi, 330i, 330xi; [2006-2007] 530xi, 525i, 525xi, 530i; [2006-2008] Z4 3.0i, Z4 3.0si; [2007-2010] X3 3.0i, X3 3.0si; [2007-2012] 328Ci, 328i, 328xi; [2008-2010] 528i, 528xi; [2008-2012] BMW 128i; [2009-2011] Z4 3.0i.

BMW LINE DISCONNECT TOOL #BMW 5346

Made from red-anodized aluminum. Used for power steering & transmission oil cooler line removal. Applicable: [1999-2011] BMW 3-Series (E46 & E90) & X5.



FUEL HOSE CLAMP CRIMPING PLIERS #CP 2015



Used to crimp BMW fuel hose clamps. Pliers are also used on some out-board boat motors & some lawn mower applications.

BMW FUEL LINE DISCONNECT TOOL #BMW 8390

Used to disconnect fuel lines on BMW models & is especially useful on the [2006-2011] BMW 3 Series models & [2006-2009] X3 models (E90 & E83).



SPECIALTY ALLEN DRIVER #BMW 050



For R & R of all BMW anti-theft radios. Applicable: many BMW models.

ADAPTER #TA 18



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



7MM ALLEN SOCKET #BMW 377

7mm, 3/8" Drive allen socket. For R & R of rear caliper bolts. Applicable: BMW E36, E46, E39 & E31 models, & MERCEDES S-Class (221).





\*ATF 1002-5 BASIC SHOWN HERE IN USE



**\*ATF 1002-5 BASIC** BASIC DRIVE LINE FILLER

For **BMW, HONDA, NISSAN** & many other universal applications. Includes pump, 5L container, hose, shut-off valve & the \*ATF 102.

**\*ATF 1002 BASIC** BASIC DRIVE LINE FILLER



**\*ATF 102** UNIVERSAL ATF ADAPTER

Used in conj. w/ ATF Filler System. Does not include pump, container, hose, or shut-off valve.

**\*ATF 1002 BASIC** BASIC DRIVE LINE FILLER

For **BMW, HONDA, NISSAN** & many other universal applications. Includes pump, 3 liter container, hose, shut-off valve & \*ATF 102.

**\*ATF 1002-5 BASIC** 5L, BASIC DRIVE LINE FILLER

For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Includes pump, 5L container, hose, shut-off valve & the \*ATF 102. Applicable: **BMW, HONDA, NISSAN** & many other universal applications.

**\*ATF 102** UNIVERSAL ATF ADAPTER

Used in conj. w/ ATF Filler System. Does not include pump, container, hose, or shut-off valve.

**\*ATF 1002 BASIC** BASIC DRIVE LINE FILLER

Ideal for **BMW** manifold studs.

**\*ATF 1002 BASIC** BASIC DRIVE LINE FILLER

Includes the new 7mm stud remover, ideal for **BMW** manifold studs. Includes: 6mm, 7mm, 8mm, 10mm & 12mm stud remover/installers.

**\*ATF 1002 BASIC** BASIC DRIVE LINE FILLER

1/2" Drive, 140mm length. For R & R of fly wheel bolts. Applicable: E34 & E39 V8 4.0L, 4.4L & 5.0L w/ standard transmission.

**\*BMW 0062** BMW A/C BELT INSTALL TOOL

Used for installing the drive belt that is a stretch belt & no belt tensioner is used. Applicable: [2004-2006] **BMW** N62 [V8] motors in models w/ the stretch belt.

**\*OFAUD1000** EURO 1/4 TURN OIL FILLER

Designed to attach to valve covers. When you're adding oil to the engine you don't have to worry about a mess due to the internal baffle of the valve cover.

**\*BMW 323** BMW LOCK CYL. TOOL

Used for unlocking lock cyl. in steering wheel lock during removal.

**\*BMW 11860** BMW HEADBOLT SOCKET

T-60, 195mm long. Applicable: **BMW** N51/N52 non-turbo & N54/N55 turbo engines.

**\*BMW 11850** BMW HEADBOLT SOCKET

T-50, 165mm long headbolt socket is used only on 3 of the head bolts on N52, N54 & N55 engines.

**\*2124** 24MM OIL FILTER SOCKET

24mm w/ 6 flats. Applicable: **BMW** models [2004-2013] w/ [V8] (N62). Steel construction.

**\*2132** 32MM OIL FILTER SOCKET

32mm, 6 Flats, w/ 3/8" drive. Applicable: [2009-2011] **BMW** 335D, [2009-2010] X5 35d & [2011-2013] X5 xDrive 35d.

**\*2136** 36MM OIL FILTER SOCKET

36mm, 6 flats. Applicable: **BMW** M52, M54, M60, M62, M70 & M73 engines.

**\*BM 1276** OIL FILTER SOCKET WRENCH

Applicable: [2007-2013] **BMW** motorcycles F650F, F800GS, HP2, R1200GS/RT/ST/ S/R, K 1600 GT, K 1600 GTL, S 1000 RR & K 1200 S/R/ GT w/ oil filter #11 42 7 673 541. Also fits Man filter #MW 75.

**\*V 410** 86.5MM OIL FILTER WRENCH

86.5mm, 16 flats, metal construction. Applicable: [2006-2013] **BMW** models w/ N20, N52, N54, N55 & N63 engines. Used w/ a 22mm socket.



**\*2101** 7 Pc. OIL FILTER WRENCH SOCKET SET

For many domestic & foreign applications. Covers all **MERCEDES** applications. The 27mm, 32mm & 36mm hex sizes cover **VW/AUDI, BMW**, newer Mercedes 4-cyl. engines, **SATURN** & **GM** 2.2L Ecotec engines. Covers **FORD** Escape Hybrid & Ford OEM #FL 910 & #FL 793. The four cup-style wrenches cover many **VW, BMW, TOYOTA** & **MAZDA** 3. Fits **DODGE** Sprinter & **JEEP** 3.0L CRD engines & [1999-2013] **VOLVO**.

**\*S 55-46** 46MM SOCKET

46mm thin-wall socket. 3/4" drive. Applicable: R & R of front wheel bearing retainer nut on **BMW** E24, E28, E32 & E34 Chassis.

**\*H 2760** OIL DRAIN & PLUG WRENCH

14mm Allen, 17mm box wrench used for R & R of differential oil filler plug on many **BMW** & **MERCEDES** models.

**\*M 0219** OIL FILTER SOCKET WRENCH

Oil filter wrench used on **BMW** motorcycles. Applicable: K75/100/1100 [all models & years], K 1200LT [all models & years], K1200RS/ GT [through 2004], all K1300 models, R850/1100/1150 [all models & years], R1200C/ CL bikes. R1200GSW water-cooled bikes [2013-newer]. F800/650 twin bikes, S1000R & [2005-newer] K1200S/R/ GT using the filter specified by **BMW** (BMW #11427721779, #11427719357, #11421460845).

**\*FZ 25** COOLING SYSTEM ADAPTER

Used on newer **BMW** [V8] (twin turbo) intercooler coolant reservoir.

**\*FZ 1002** COOLING ADAPTER SET

Use w/ any standard stant-style pressure tester. Contains: \*BMW 345, \*BMW 350, \*FZ 22, \*FZ 25, \*FZ 41 & \*M 0349. Applicable: most European vehicles.

**\*BMW 345** TANK ADAPTER

For pressurizing cooling system. Adapter has female 52 x 3mm buttress threads. Applicable: **BMW** [2006-2013] 3 Series (E90), [2013] 320i, [2004-2013] 5 & 6 Series (E60, E63, E64, [2013] 528i, [2012] 7 Series, [2007-2014] X3 & [2007-2013] X5 (E70).

**\*BMW 350** BMW TANK ADAPTER

For pressurizing cooling system. Adapter has female 52 x 3mm buttress threads. Applicable: **BMW** [2006-2013] 3 Series (E90), [2013] 320i, [2004-2013] 5 & 6 Series (E60, E63, E64, [2013] 528i, [2012] 7 Series, [2007-2014] X3 & [2007-2013] X5 (E70).



#3000 SHOWN HERE IN USE

**#3000 SOCKET SET**

40-Piece, 1/4" socket set includes: T6-T45 6-pt. Tamperproof® torx; T10-T50 6-pt. std. torx; 4mm, 5mm, 6mm & 8mm 12-Point; 2.5, 3, 4, 5, 6 & 8 Allen drivers; 5/32"-5/16" straight blade drivers; #1, #2 & #3 phillips drivers.

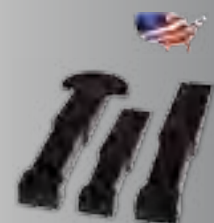
**\*MW 34 SOFT ORANGE WEDGE SET**

Constructed of soft orange polyethylene, this kit of three wedge-style dash panel removal tools allows installers to remove dash trim bezels & other vehicle interior moldings including door panels, without causing damage. Great for installing electronics.



**\*MW 35 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 & more, without causing damage.



**#3200 DOOR & HINGE HANDLE SET**



A compact solution to accessing the special fasteners found on the door hinges & handles of **VW/AUDI, MERCEDES, & PORSCHE**. Includes five door hinge/handle bits (less than an inch long), & a slender ratcheting wrench. Also includes the extra long drivers necessary to access the door handles of Mercedes & VW.

**RADIO REMOVAL TOOL #2040**

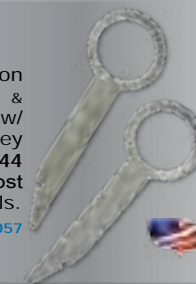


Radio removal tool for **VW, AUDI, FORD, & SAAB** radios w/ DIN chassis.

**RADIO REMOVAL TOOL #3344 A**

For radio removal on **AUDI A4, A6, A8 & VW** new Beetle w/ horizontally aligned key slots. Two pairs of #3344 A are required for most newer VW/Audi models.

COMPARABLE: VW #T 10057



**#3101 RADIO REMOVAL SET**



Includes: #2040, #BMW 050, #3344 A (includes two pairs), #M #2070, #3316, #BMW 025 & the #BMW 010. Applicable: **FORD & VW** w/ a DIN chassis, **BMW** w/ anti-theft radio, **AUDI A4, A6, A8 & VW** new Beetle, [1992 & later] **MERCEDES** 129, 140, 163, 202 & 210 models, VW Passat, Jetta & Golf, center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39).

**\*M 0333 PULLER SET (PAIR OF HOOKS)**



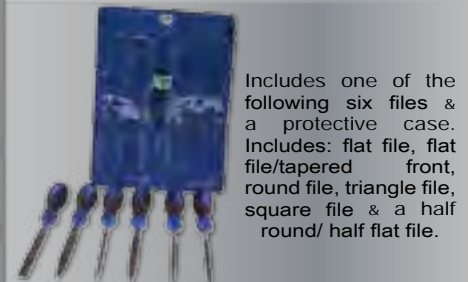
Used for R & R of the instrument cluster on Mercedes models. Applicable: **MERCEDES** W 107, 116, 123, 124, 126, 129, 140, 168, 170, 201, 202, 208, 210 & 463 models.

**\*M 2070 RADIO REMOVAL TOOL**



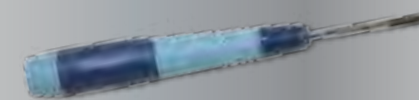
Used for radio removal on 1992 & later **MERCEDES** models. Applicable: Mercedes models 140, 129, 202 & 210.

**#3810 6-PIECE FILE SET**



Includes one of the following six files & a protective case. Includes: flat file, flat file/tapered front, round file, triangle file, square file & a half round/ half flat file.

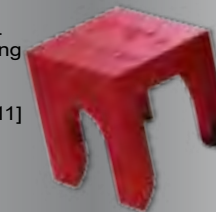
**2.5MM HEX DRIVER #BMW 025**



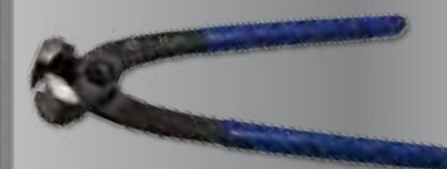
2.5mm Hex driver, included in the #3101 8-Piece Radio Removal Set.

**BMW LINE DISCONNECT TOOL #BMW 5346**

Made from red-anodized aluminum. Used for power steering & transmission oil cooler line removal. Applicable: [1999-2011] **BMW** 3-Series (E46 & E90) & X5.



**FUEL HOSE CLAMP CRIMPING #CP 2015 PLIERS**



Used to crimp **BMW** fuel hose clamps. Pliers are also used on some out-board boat motors & some lawn mower applications.

**\*S 1553 N WIRE TERMINAL EXTRACTOR**



Used to remove flat terminals w/ one release tang from the connector plug. 1.5mm Wide, fits connectors 2.8mm - 5.8mm wide. COMPARABLE: VW #VAS1978/29

**\*S 1556 N WIRE TERMINAL EXTRACTOR**



Used to remove flat terminals w/ two release tangs from the connector plug. 1mm Wide, 2.5mm Apart & 12.15mm long.

**\*T 314 THOREX COPPER HAMMER**



Approximate weight 4 lbs. 1 3/4" Face Diameter (44mm). Overall length 12".

**T-10 TORX DRIVER #BMW 010**



Included in the #3101 8-Piece Radio Removal Set.

**BMW FUEL LINE DISCONNECT TOOL #BMW 8390**

Used to disconnect fuel lines on **BMW** models & is especially useful on the [2006-2011] BMW 3 Series models & [2006-2009] X3 models (E90 & E83).



**SPECIALTY ALLEN DRIVER #BMW 050**



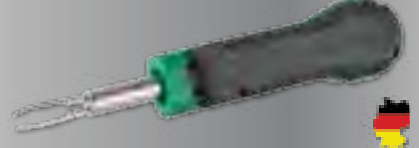
For R & R of all **BMW** anti-theft radios. Applicable to many BMW models.

**\*S 1578 K-2 BMW E46 TERMINAL TOOL**



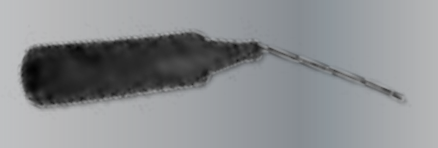
Used for extracting terminals from a connector on the tail light wiring harness. Applicable: 1999-2005 **BMW** E46, 3 Series. There is currently a service bulletin regarding this procedure.

**WIRE TERMINAL EXTRACTOR #S 1591 N**



Used to remove flat terminals w/ two release tangs from the connector plug. 1.65mm wide, 2.8mm apart & 18mm long. COMPARABLE: VW #VAS1978/18

**\*BMW 323 BMW LOCK CYL. TOOL**



Used for releasing lock cyl. in steering wheel lock during removal. Applicable: **BMW & MINI** chassis: E31, E32, E34, E36, E38, E39, E46, E60, E61, E63, E64, E83, E85, R50, R52 & R53.

**RADIO REMOVAL KEYS #3316**

For removing the factory-installed radio. Applicable: [1998-2005] **VW** Passat & [1999-2005] Jetta & Golf w/ vertically aligned key slots.



**ADAPTER #TA 18**

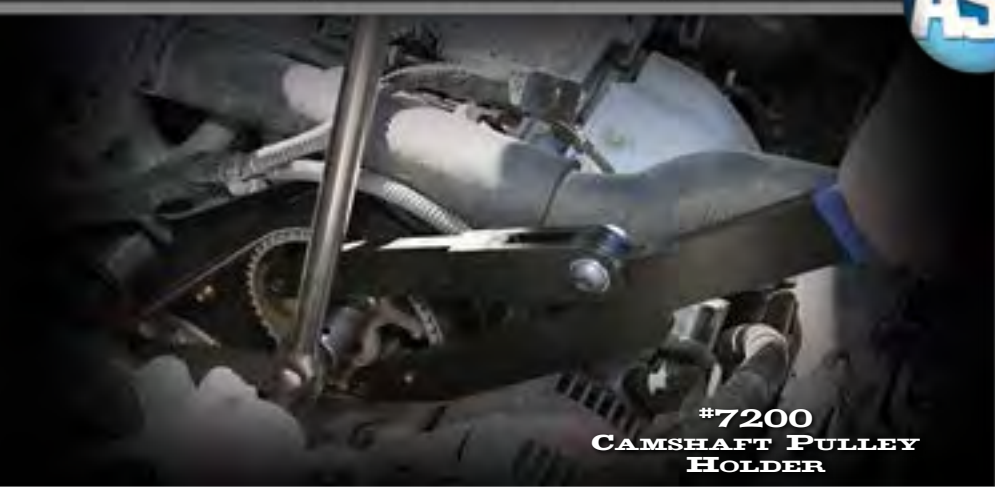
For brake master cyl. or clutch master cyl. reservoirs. Used in conj. w/ pressure bleeder. (1/4-18 NPT). Fits most european cars.



**ASSEMBLY TOOL #T 10389**



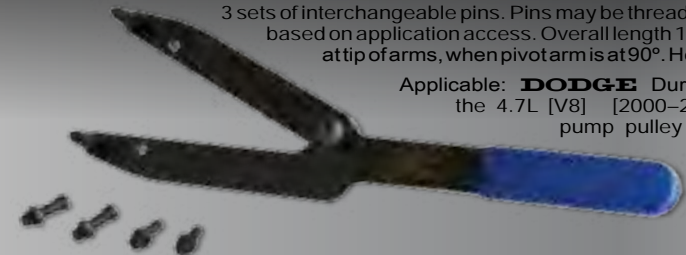
Used for removal & installation of the lock cylinder housing on doors w/ no lock cylinder. Applicable: [2008-newer] **VW** Tiguan.



**#7200**  
**CAMSHAFT PULLEY HOLDER**

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°. Holding pins are made in USA.

Applicable: **DODGE** Durango Camshaft gears on the 4.7L [V8] [2000–2009] & holds **GM** water pump pulley on 4.2L straight 6 Vortec motors. For GM coverage, Purchase 2 #7200-4 in addition to the #7200.



#7200-4  
SHOWN HERE  
IN USE



**#7200-4** PINS

For use w/ #7200. Applicable: **DODGE** Durango Camshaft gears on the 4.7L [V8] [2000–2009] & holds **GM** water pump pulley on 4.2L straight 6 Vortec motors.

AVAILABLE SEPARATELY, NOT INCLUDED IN #7200 SET. MUST PURCHASE 2 TO MAKE A PAIR.



**#FZ 55** DODGE SPRINTER TANK ADAPTER



Applicable: [2007–2013] **DODGE** Sprinter Van. Female 46 x 2.5mm buttress threads.



**#FZ 32 A** TANK ADAPTER



For pressurizing cooling system. Female 52 x 2.5mm buttress threads. Works w/ many domestic vehicles. Fits all **FORD** w/ 52mm threads.

FOR 2013 FORD ESCAPE, FOCUS & FUSION SEE #FZ 47



**#FZ 36** CAP ADAPTER



Used to test coolant pressure cap on all [1999–2013] **GM** w/ threaded cap. Applicable: Buick, Cadillac, Chevy, Ford, Freightliner, GMC, International, Jaguar, Lincoln, Mercury, Nissan Titan, Oldsmobile, Pontiac, Saturn & Sterling.



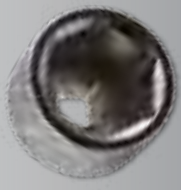
**#FZ 47** TANK ADAPTER



For pressurizing the cooling system. M49 x 2.5mm buttress threads. Applicable: **FORD** [2011–2013] Fiesta, [2012–2013] Focus, [2013] Fusion; **VOLVO** S40 & V50 [2004–2010] & all Volvo cars exc. XC 90 [2008–2013].



**#2124** 24MM OIL FILTER SOCKET



24mm, 6 Flats, used for R & R of oil filter housing cap. Applicable: **SATURN** [2008] Astra w/ 1.8L ecotec; **CHRYSLER** [2011–newer] w/ 3.6L [V6], 200, 300 & T/C; **DODGE** Avenger, Challenger, Charger, Durango, Grand Caravan & Journey; **JEEP** Grand Cherokee.

**#2136** 36MM OIL FILTER SOCKET



36mm, 6 flats, steel construction Applicable: **FORD** [2004 & later], Ford F series 6.0L turbo-diesel oil & fuel filter. Used for R & R of fuel filter housing on [2004–2010] Ford E & F series.

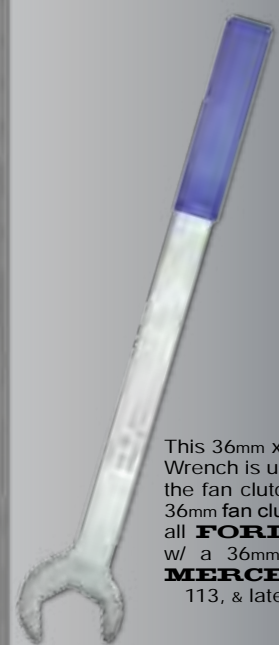
**#FZ 35 A** TANK ADAPTER



For pressurizing cooling system. Applicable: all [1999–2013] **GM** models w/ a plastic threaded tank.



**#8036** 36MM FAN CLUTCH WRENCH



This 36mm x 380mm Fan Clutch Wrench is used for the R & R of the fan clutch on vehicles w/ a 36mm fan clutch nut. Applicable: all **FORD** & **GM** vehicles w/ a 36mm fan clutch nut & **MERCEDES** M 112, M 113, & later M 119 engines.

**32MM OIL FILTER SOCKET #2132**



32mm w/ 6 flats. Steel construction. Applicable: **GM**, **CHEVY**, **PONTIAC** & **SATURN** models w/ 4-cyl. Ecotec engines.

**5/16" FUEL FILTER REMOVER #8012**



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

**3/8" FUEL LINE REMOVER #8013**



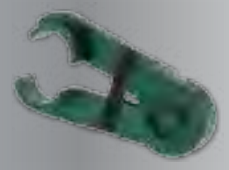
For removing 3/8" fuel lines & feed lines from the fuel pump-sending unit. Applicable: **FORD** Areostar [1990–2006], Bronco [1990–2006], E-Series Vans [1991–2006], Explorer [1990–2006], F-Series Trucks [1991–2006] & Ranger [1992–2006].

**5/16" SPECIAL LINE REMOVER #8014**



For removing both oil cooler lines from the fittings on automatic transmissions. Applicable: **FORD** Taurus & Escorts w/ the AXOD & ATX transmissions.

**1/2" OIL COOLER LINE REMOVER #8016**



For removing both oil cooler lines from fittings on automatic transmission & oil coolers. Applicable: **DODGE** Ram trucks w/ [V10] or Cummins turbo diesel [1995–2007].



**#8110**  
**LINE DISCONNECT SET**



10-Piece set includes #8010, #8012, #8013, #8014, #8016, #8021, #8022, #8023, #8024 & #8026. SEE INDIVIDUAL TOOL'S FOR SPECIFIC APPLICATIONS

**3/8" OIL COOLER LINE REMOVER #8021**



For disc. trans. oil cooler lines. Flares on the cooler lines near the fittings prevent access w/ original style tools. The locking clip used in the fitting is different than std. 'tabs' used on most other applications. #8021 clears the flare & disc. the new style clips w/ ease. Applicable: [2003–2004] **CADILLAC** CTS.

**GM FUEL FILTER REMOVAL TOOL #8022**



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

**1/2" OIL COOLER LINE REMOVER #8023**



Used to disconnect 1/2" transmission oil cooler lines. Applicable: **FORD** Edge [2012 & newer], Escape w/ 6F Trans [2009 & newer], Excursion 6.0L turbo diesel, F-250 & F-350.

**1/2" OIL COOLER LINE REMOVER #8024**



For R & R of transmission oil cooler lines on **FORD** Explorer Sport Trac [2007] & Ranger [2006].

**FUEL LINE RELEASE TOOL #8027**



Used for R & R of fuel lines. Made of orange-anodized aluminum. Applicable: [2011] **GM** w/ 6.6 [V8] turbo diesel Duramax.

**1/4" FUEL LINE REMOVER #8010**



For the removal of 1/4" return lines on the fuel pump. Applicable: [1995 & 1996] **FORD** Mustang.



#OFFM2012

FORD & MAZDA OIL FUNNEL



Used on newer **FORD & MAZDA** cars w/ 4-cyl. engine. Made of Durable ABS Plastic. No more mess. Attaches directly to engine oil filler neck or valve cover.

Applicable: **FORD** Explorer 2.0L Eco-boost [2012-2013], Escape 2.5L [through 2012], Escape 2.0L Eco-Boost [2013], Focus 2.0L [2007-2013] & Fusion 2.0L Hybrid [2013]. **LAND ROVER** Range Rover Evoque 2.0T [2012-2013]. **MAZDA** 3 [2006-2013], CX-5 [2013-newer], MX-5 Miata [2006-2013] & Mazdaspeed 3 2.3L turbo [2010-2013].

MAY NOT FIT SOME APPLICATIONS WHERE THE FIRE WALL COWL DOESN'T PROVIDE CLEARANCE FOR ATTACHMENT OF FUNNEL



#M 0219

74MM OIL FILTER WRENCH



74mm, 14 flats. Uses a 22mm socket. Applicable: **DODGE** Sprinter 2.7L & 3.5L [2003-2012]; **FORD** Escape 2.3L [2006-2008] (Hybrid), Focus 2.3L [2004-2007], Fusion 2.3L [2006-2008].



#M 0284

84MM OIL FILTER WRENCH



14 Flats, 22mm hex. Applicable: 3.0L [V6] CRD (Common Rail Diesel) engines: **DODGE** Sprinter [2007-2013] & **JEEP** Cherokee [2007-newer].



#CRY933

CHRYSLER TRANSMISSION DIPSTICK



Used on all vehicles w/ NAG1, 42RLE, CVT transmission & 62TE transaxle. Applicable: **CHRYSLER** 300C [2006-2013], Aspen [2008-2009], Pacifica [2007-2008], Sebring [2007-2013] Town & Country [2008-2013]; **DODGE** Avenger [2007-2013], Caliber [2007-2012], Challenger [2008-2013], Charger [2006-2013], Dakota [2008-2011], Durango [2008-2013], Journey [2009-2013], Grand Caravan [2008-2013], Nitro [2007-2011], Magnum [2006-2013] Ram [2007-2013]; **JEEP** Commander [2006-2010], Compass [2007-2013], Liberty [2006-2012], Grand Cherokee [2006-2013], Patriot [2007-2013], Wrangler [2006-2013] & Wrangler CKD [2011-2013]).

THIS TOOL SUPERSEDES THE ORIGINAL #936 A & WILL WORK ON ALL PREVIOUS APPLICATIONS

#M 820

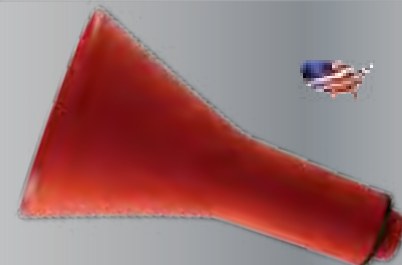
GLOW PLUG SOCKET



3/8" drive, 8mm glow plug socket. Applicable: **MERCEDES** & **DODGE** Sprinters.

#OFHON1033

ASIAN/ DOMESTIC OIL FUNNEL



Attaches & seals to the valve cover, preventing an unwanted mess. Threads on & seals to the valve cover, just like the oil cap. Applicable: **ACURA** all models (for MDX & ZDX, add our #OFH33 extension); **DODGE** Neon & 2002 Cummins turbo diesel Ram; **FORD** turbo-diesel 6.0, 6.4, 6.9 & 7.3; **HONDA** Accord, Civic, Element, Fit [through 2008], NSX & S2000; **JAGUAR** [2003-2009] w/ 4.2L only. **JEEP** Wrangler 2.4L [2001-2006]. **LAND ROVER** [2002] Defender, Discovery & Range Rover; **MAZDA** 2 (threads in pretty loose, but fits); Most **NISSAN** models [through 2013].



SPRINTER TRANSMISSION DIPSTICK

#SPR 886



**DODGE** Sprinter & **CHRYSLER** Crossfire transmission dipstick.

USE IN CONJ. W/ FACTORY REPAIR LITERATURE TO GET CORRECT FLUID LEVEL MEASUREMENTS. COMPARABLE: CHRYSLER #8863B

19MM FUEL LINE WRENCH

#H 4550-2



Applicable: 16 & 20 foot **MERCEDES** diesel trucks. Lines at delivery pump on **CUMMINS** turbo diesel 5.2L.

GLOW PLUG SOCKET

#M 1020



3/8" Drive, 10mm glow plug socket. Applicable: **MERCEDES** & **DODGE** Sprinter.

3PC. MAZDA/ FORD 2.3L TIMING SET

#FM 2330



**MAZDA & FORD** timing set used on all 2.3L engines (turbo & naturally aspirated).

Applicable: **MAZDA** 3 [2004-2012], 5 [2006-2012], 6 [2003-2012], Mazdaspeed 3 [2007-2012], Mazdaspeed 6 [2006-2007], Miata [2006-2012] & CX-7 [2007-2012], & [2006-2012] MX-5 Miata. **FORD** Escape [2005-2011], Focus [2003-2011], Fusion [2006-2011] & Ranger [2001-2011].

COMPARABLE: #303-507 (CRANK PIN), #303-465 (CAM BAR) & #303-1061 (TURBO CAM PLATE)



#ATF 1002 BASIC BASIC DRIVE LINE FILLER



For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. The #ATF 1002 BASIC set includes pump, 3 liter container, hose, shut-off valve & the #ATF 102. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS

FILTER WRENCH

#TOY 640



Used to remove & install the transmission cooling return line filter on 45RFE & 545RFE automatic transmissions. Applicable: [2009-2014] **DODGE** Ram & [2006-2013] Durango, [2006-2007] **JEEP** Liberty, [2006-2011] Dakota, [2007-2009] Aspen, [2006-2013] Grand Cherokee, [2006-2011] Commander, [2007-2010] Wrangler



SPRINTER GLOW PLUG PLIERS

#SPR 0558



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

#ATF 1001 FORD FORD DRIVE LINE FILLER



For filling **FORD** Explorer transmissions from the bottom of the vehicle. Includes pump, 3 liter container, hose, shut-off valve & the #ATF 101 (applicable to Ford w/ 1/8-27 NPT Plug) adapter.

OTHER ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY



**\*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 & large vertical slot. A large horizontal slot runs the length of each jaw. Strong magnets attach soft jaws firmly to 4", 5" & 6" vises.



**\*MW 34** **SOFT ORANGE**  
**WEDGE SET**

Constructed of soft orange polyethylene, this kit of three wedge-style dash panel removal tools allows installers to remove dash trim bezels & other vehicle interior moldings including door panels, without causing damage. Great for installing electronics.



**\*MW 35** **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 & more, without causing damage.



**#7200**  
**CAMSHAFT PULLEY**  
**HOLDER**



Applicable: **TOYOTA** belt-driven 4, 6 & 8-cyl; **VW/AUDI** 1.8L, 2.0L turbo, 2.0L BBW, 2.5L, 3.2L; **VOLVO** (multiple models). Includes three sets of interchangeable pins which may be threaded into two different locations, based on application. Overall length 18", 12" spread between pins at tip of arms, when pivot arm is at 90°. Holding pins are made in USA.

FOR GM/DODGE COVERAGE, YOU'LL ALSO NEED TO PURCHASE 2 OF THE #7200-4 PINS

**#8028** **SUBARU FUEL LINE**  
**DISCONNECT TOOL**



Applicable: 2.5L naturally aspirated engines; & [2004–newer] 2.0L/2.5L turbo (exc. 2006 WRX/STI)

COMPARABLE: #18371AA000 & #42099AE00

**#1201 A** **TIE ROD END/**  
**BALL JOINT**  
**PULLER**



Opens from 5 to 55mm, w/ a 26mm inside opening & an overall outside size of 47mm.

COMPARABLE: #3287 A & KUKKO #129-0

**\*T 314** **THOREX**  
**COPPER**  
**HAMMER**



Thorex Copper Hammer. Approximate weight is 4 lbs. 1-3/4" (44mm) Face. Overall length 12".

**#3810** **6-PIECE FILE SET**



Includes the following six files & a protective case: Flat File, Flat File/Tapered Front, Round File, Triangle File, Square File & a half Round/ half Flat File.

**#7200-4** **PINS**



For use w/ #7200. Applicable: **DODGE** Durango camshaft gears on 4.7L [V8] [2000–2009] & holds **GM** water pump pulley on 4.2L straight 6 Vortec motors.

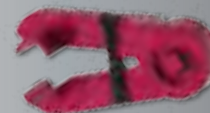
AVAILABLE SEPARATELY, NOT INCLUDED IN #7200 SET. MUST PURCHASE 2 TO MAKE A PAIR.

**1/4" FUEL**  
**LINE REMOVER** **#8010**

For the removal of 1/4" return lines on the fuel pump. Applicable: [1995 & 1996] **FORD** Mustang.

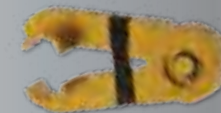


**5/16" FUEL**  
**FILTER**  
**REMOVER** **#8012**



Red-anodized aluminum. For R & R of fuel filter & 5/16" return line from fuel pump-sending unit. Applicable: **FORD** Aerostar [1990–2006], Bronco [1990–2006], E-Series Vans [1991–2006], Explorer [1990–2006], F-Series Trucks [1991–2006], Ranger [1992–2006] & **SAAB** 900.

**3/8" FUEL**  
**LINE REMOVER** **#8013**



Used for removing 3/8" fuel lines & feed lines from the fuel pump-sending unit. Applicable: **FORD** Aerostar [1990–2006], Bronco [1990–2006], E-Series Vans [1991–2006], Explorer [1990–2006], F-Series Trucks [1991–2006], Ranger [1992–2006] & **SAAB** 900.

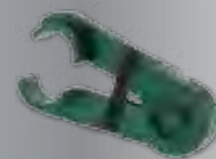
**5/16" SPECIAL**  
**LINE REMOVER** **#8014**

For removing both oil cooler lines from the fittings on automatic transmissions. Applicable: **FORD** Taurus & Escorts w/ AXOD & ATX transmissions.



**1/2" OIL**  
**COOLER LINE**  
**REMOVER** **#8016**

For removing both of the oil cooler lines from the fittings on automatic transmission & oil coolers. Applicable: **DODGE** Ram trucks w/ [V10] engine or the Cummins turbo diesel [1995–2007].



**#8110**  
**10-Pc. LINE**  
**DISCONNECT SET**



Includes #8010, #8012, #8013, #8014, #8016, #8021, #8022, #8023, #8024 & #8026.

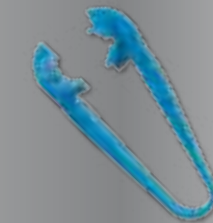
#8110 IS THE ONLY SET OF DISCONNECT TOOLS THAT CONTAIN THE #8023, #8024 & THE #8026

**3/8" OIL**  
**COOLER LINE**  
**REMOVER** **#8021**



For disc. trans. oil cooler lines. Flares on cooler lines near the fittings prevent access w/ original style disc. tools. The locking clip used in the fitting is different than the std. 'tabs' used on most other applications. #8021 will clear the flare & disconnect the new style clips w/ ease. Applicable: [2004–2007] **FORD** F-150.

**GM FUEL FILTER**  
**REM. TOOL** **#8022**



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

**1/2" OIL**  
**COOLER LINE**  
**REMOVER** **#8023**



Used to disconnect 1/2" transmission oil cooler lines. Applicable: **FORD** Edge [2012 & newer], Escape w/ 6F Trans [2009 & newer], Excursion 6.0L turbo diesel, F-250 & F-350.

**1/2" OIL**  
**COOLER LINE**  
**REMOVER** **#8024**



1/2" Oil Cooler Line Remover used for R & R of transmission oil cooler lines on **FORD** Explorer Sport Trac [2007] & Ranger [2006].

**NISSAN/TOYOTA**  
**FUEL LINE DISC.**  
**TOOL** **#8026**



5/16" Fuel Line Disconnect Tool. For disconnecting the fuel line from the fuel rail. Applicable: [2004–newer] **NISSAN** & **TOYOTA**.

**FUEL LINE**  
**RELEASE TOOL** **#8027**



Used for R & R of fuel lines. Applicable: [2011] **GM** w/ 6.6 [V8] turbo diesel Duramax.



**#3000 12 POINT SOCKETS**



**1/4" 12-POINT SOCKETS**  
Available in the following sizes: 4, 5, 6 & 8.

**#30 TORX BIT SOCKETS**



**30 TORX BIT SOCKETS**  
1/4" drive. Available in the following sizes: T10, T15, T20, T25, T27, T30, T40, T45, T50.

**#3000 PHILLIPS BLADE SOCKETS**



**1/4" PHILLIPS BLADE SOCKETS**  
Available in the following sizes: #1, #2 & #3.

**#3000 5-POINT TAMPER-PROOF SOCKETS**



**1/4" 5-POINT TAMPERPROOF SOCKETS**  
Available in the following sizes: #3000 TP-10, #3000 TP-15, #3000 TP-20, #3000 TP-25, #3000 TP-27, #3000 TP-30, #3000 TP-40, #3000 TP-45, #3000 TP-50.

**#3000 HEX BIT SOCKETS**



**1/4" HEX "ALLEN" BIT SOCKETS**  
Available in the following sizes: 2.5, 3, 4, 5, 6 & 8.

**#3000 STRAIGHT BLADE SOCKETS**



**1/4" STRAIGHT BLADE SOCKETS**  
Available in the following sizes: 5/32", 3/16", 7/32", 1/4", 9/32" & 5/16".

**#3004X 4-Pc. 12-Pt. 1/4" DRIVE SET**



This socket set includes: 8mm, 6mm, 5mm & 4mm sockets. 1-Piece steel construction. Sockets are just under 1" long.

**#3900 5-LOBE TAMPERPROOF BIT SET**



5 Lobe bits & a 1/4" drive. Includes: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 & T-50.

**#3000 TORX TAMPER-PROOF SOCKETS**



**1/4" TORX TAMPERPROOF SOCKETS**  
Available in the following sizes: T6, T7, T8, T9, T10, T15, T20, T25, T27, T30, T40 & T45.

**#3000-4 K 4-Pc. SOCKET BIT SET**



Set includes: 4mm, 5mm, 6mm, & 8mm 1/4" drive sockets. Multiple applications. Organizer included.

**#3000-6 K 6-PIECE SOCKET BIT SET**



Set includes: 2.5mm, 3mm, 4mm, 5mm, 6mm & 8mm 1/4" drive sockets. Multiple applications. Organizer included.

**#3700 4-PIECE FLEX NUT DRIVER SET**



Includes 5mm, 6mm, 7mm & 8mm Flexible Nut Drivers. Used to tighten & loosen the hard-to-reach hose clamps on various makes & models. Blue handle constructed of tough composite plastic.



**5.5MM FLEXIBLE NUT DRIVER #3705.5**

5.5mm Flexible nut driver used for changing interior cabin filter on **VW Touareg** as well as flap motors on [1999–newer] Passat, Jetta, Beetle & Golf



**STUD REMOVER & INSTALLER TOOLS**



**#200-7 STUD REMOVER**  
• MULTIPLE APPLICATIONS  
• INCLUDED W/ #201-7 SET  
• IDEAL FOR BMW MANIFOLD STUDS



**7-PC. TORX SET #30 T-7**



Includes: #30 T-10, #30 T-15, #30 T-20, #30 T-25, #30 T-27, #30 T-30, #30 T-40 & Organizer.



**4 Pc. METRIC STUD PULLER SET #201**  
Stud remover & installer set. Includes 6mm, 8mm, 10mm & 12mm stud remover & installer tools.



**5 Pc. STANDARD STUD PULLER SET #202**  
Stud remover & installer set. Includes 1/4, 5/16, 3/8, 7/16, & 1/2 inch stud remover & installer tools.



**5 Pc. METRIC STUD PULLER SET #201-7**  
5-Piece set includes the new 7mm Stud Remover, Ideal for BMW Manifold Studs. Includes 6mm, 7mm, 8mm, 10mm & 12mm stud remover / installers.



**7 Pc. STANDARD STUD PULLER SET #203**  
Stud remover & installer set. Includes 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, & 5/8 inch stud remover & installer tools.

**Individual Stud Removers/Installers**  
#200-9/16 & #200-5/8 are 27mm Hex, No Square Drive

6mm	7mm	8mm	10mm	12mm	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"
200-6	200-7	200-8	200-10	200-12	200-1/4	200-5/16	200-3/8	200-7/16	200-1/2	200-9/16	200-5/8

**Parts Kit for Stud Removers/Installers**

60	70	80	100	120	250	312	375	437	500	562	625

Stud removers produced between [2004–2014] are under warranty. The production year is stamped on the stud remover. If the external body is damaged please return the stud remover for warranty. If only the internal parts of the stud puller need replacing, simply call & specify the AST product number of the stud puller. If the production date is in the range of [2004–2014], we will send out internal replacement parts at no charge. Internal Stud Remover parts are replaceable. The table (above) indicates replacement numbers for the internal parts.

**Warranty Policy**

AST tools are warranted against defects in WORKMANSHIP or MATERIALS for a period of five years. Excluded are: (Hazet & Stahlwille products, service reset tools, copper hammers & dial indicators) All warranty items need a return goods authorization number & are to be shipped freight prepaid to the following address:

Assemmacher Specialty Tools, Inc.  
6440 Odell Place  
Boulder, CO 80301  
USA

Include name, address, telephone number & a short description of the problem. All items returned will be inspected & 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.





**\*ATF 1002-5 BASIC**  
BASIC DRIVE LINE FILLER

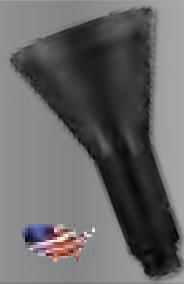
The \*ATF 1002-5 BASIC is used for filling fluids in transmission, differentials, transfer cases and many other universal filling tasks. (Not suitable for use w/ fuels or solvents). The \*ATF 1002-5 BASIC set includes pump, 5 liter container, hose, shut-off valve & the \*ATF 102. **ADDITIONAL 3 LITER & 10 LITER DRUMS ARE AVAILABLE.**



\*OFGMRD08 SHOWN HERE IN USE

**\*OFGMRD08 FORD/GM OIL FUNNEL**

Applicable: **HYUNDAI** Santa Fe [2001-2006] 4-cyl., Sonata [2002-2005], Tiburon [2006-newer] & Tucson [2004-newer].



**\*HY 8815 HYUNDAI/KIA OIL FILTER WRENCH**



88mm, 15 Flats, 22mm Hex. Applicable: **HYUNDAI & KIA** w/ paper cartridge oil filter w/ 88mm housing including: [2005-2009] Azera, [2006-2008] Entourage, [2006-2007] Santa Fe [2005-2007] Sonata, [2005-2007] Veracruz, [2007-2009] Amanti [2006-2009] Sorento.

**\*SU 8015 OIL FILTER WRENCH**



80mm, 15 Flats. Applicable: **HYUNDAI** 4-cyl. Accent [1995-2012], Elantra [1992-2013], Excel [1986-1994], Genesis Coupe [2008-2012], Santa Fe [2000-2012], Scoupe [1992-1994], Sonata [1992-2012], Tiburon [2001-2008], Tucson [2004-2012], Veloster [2011-2013], XG300 [2000-2005], XG350 [2000-2005]; **KIA** 4-cyl. Amanti [2004-2006], Forte [2010-2012], Optima [2001-2012], Rio [2006-2012], Rondo [2007-2009], Sedona [2002-2005], Sorento [2003-2006], Soul [2010-2012], Spectra [2004-2009], Sportage [2005-2012].

**\*OFHD35 OIL FUNNEL**



Applicable: **KIA** Forte [2013], Rio [2013-2014], Sorento [2011-newer], Soul [2013] & Sportage [2014].

**\*ATF SU100 UNIVERSAL ATF ATTACHMENT**



Used w/ our ATF drive line filler. Tool is flexible to fit into hard to reach applications where there is at least a 10mm inside diameter opening. Particularly useful on **KIA** Forte [2013] & Sorento's [2011-newer] automatic transmissions.

**\*2127 27MM OIL FILTER SOCKET**



27mm, 6 flats. Applicable: Hyundai Azera [2009-2012], Equus [2011-newer], Genesis [V6/V8] [2008-newer], Santa Fe 3.3L [2009], Sonata 3.3L [2009] & Veracruz [2007-newer]; **KIA** Amanti [2007-2009], Borrego [2009-newer], Sedona [2007-newer] & Sorento [2007-2009].

**\*ATF 1002 BASIC**  
BASIC DRIVE LINE FILLER

For filling fluids in transmissions, differentials, transfer cases & many other universal filling tasks. Includes pump, 3 liter container, hose, shut-off valve & the \*ATF 102.

Applicable: **BMW, HONDA, NISSAN** & many other universal applications. Other additional adapters are available separately.

**NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS**



**FUNNEL EXTENSION \*OFH33**

Oil Funnel Extension for \*OFHON1033 Applicable: **HONDA** Pilot, Odyssey & Ridgeline. Also fits **ACURA** MDX & ZDX. Adds coverage & access where normal funnels do not fit. **USED IN CONJ. W/ \*OFHON1033**



**OIL FILTER WRENCH #5063**

63mm, 14 flats. Applicable: most **HONDA** models exc. S2000; **KAWASAKI** filter #16097-0003 & **YAMAHA** filter #5GH-13440-00; & Powersports vehicles that utilize "HF303" oil filters: Honda, Polaris, Kawasaki, Yamaha.



**TANK ADAPTER #FZ 128**

Used for pressurizing the cooling system. Applicable: **HONDA** [1990-1993] Accord, [1988-1993] Civic, [1991-2006] Honda motorcycles & [1990-1993] **ACURA** Integra; **HYUNDAI** [2001] Elantra, Hyundai [1987-1999].



**TANK ADAPTER #FZ 138**

Used for pressurizing cooling system. Applicable: **HONDA** [2008] Element & S 2000, [1994-2014] Accord, [1994-2014] Civic, [2004] Civic Hybrid, [2009-2014] CRV & Fit, [1999-2003] Odyssey, [2003-2005] Pilot, [1994-1999] **ACURA** Integra, [1991-1996] Legend.



**16MM 10-POINT SOCKET #HO10PT**

Applicable: [2001 & newer] **HONDA** Civic & **ACURA** RSX rear lower control arms.

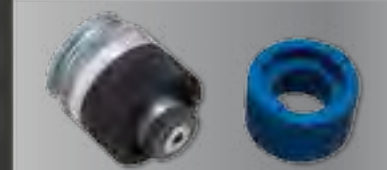


**\*OFHON1033 ASIAN/DOMESTIC OIL FUNNEL**



Attaches & seals to the valve cover, preventing an unwanted mess. Threads on & seals to the valve cover, just like the oil cap. Applicable: **ACURA** all models (for MDX & ZDX, add our \*OFH33 extension); **DODGE** Neon & 2002 Cummins turbo diesel Ram; **FORD** turbo-diesel 6.0, 6.4, 6.9 & 7.3; **HONDA** Accord, Civic, Element, Fit [through 2008], NSX & S2000; **JAGUAR** [2003-2009] w/ 4.2L only. **JEEP** Wrangler 2.4L [2001-2006]. **LAND ROVER** [2002] Defender, Discovery & Range Rover; **MAZDA** 2 (threads in pretty loose, but fits); Most **NISSAN** models [through 2013].

**COOLING SYSTEM ADAPTER SET #FZ 580**



Using the threaded rings & one base, all small-neck tab style radiators & expansion tanks can be pressurized w/ this new product. Simply thread on the taller or shorter ring to accommodate a shallow or deep neck.



\*FZ 580 SHOWN HERE IN USE

Fz 72 TECH TIP

**\*HON1419 HONDA SERPENTINE BELT WRENCH**



**HONDA** serpentine belt wrench equipped w/ 14mm & 19mm, 12 point secured sockets, for engagement every 30 degrees. Ideal for strong tensioners used on 2006-newer Civics.



**#OFFM2012**  
**LAND ROVER**  
**EVOQUE OIL**  
**FUNNEL**



Used on **LAND ROVER** Range Rover Evoque 2.0T [2012–2013].

**#OFGMRD08** **FORD/GM**  
**OIL FUNNEL**

Polycarbonate construction. No more mess, attaches directly to the engine oil filler neck. Applicable: **JAGUAR** S-Type/X-Type 3.0L [2000–2009] & 5.0L [V8] in XJ, XJL, XK, XKR, XF, XFR & XKR [2010–2013]; **LAND ROVER** [2010 & newer] LR4 5.0L [V8], Ranger Rover & Range Rover Sport.



**#OFHON1033** **ASIAN/**  
**DOMESTIC OIL**  
**FUNNEL**

Attaches & seals to the valve cover, preventing an unwanted mess. Fits **JAGUAR** w/ 4.2L only [2003–2009] & **LAND ROVER** Defender, Discovery & Range Rover [2002].



**#ATF 1002 BASIC**  
**BASIC DRIVE LINE FILLER**



For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Set includes pump, 3 liter container, hose, shut-off valve & the **\*ATF 102**. **NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS**

**#JA 14 ABS** **JAGUAR ABS**  
**ROTOR NUT**  
**SOCKET**



3/4" drive Applicable: **JAGUAR** XJ8 & XK8 [1997–2006].

**#FZ 25** **TANK**  
**ADAPTER**



For pressurizing cooling system. Applicable: [2002–2004] **LAND ROVER** Freelander models w/ M47 x 3mm threads on the filler neck.



**#FZ 35 A** **TANK**  
**ADAPTER**



For pressurizing cooling system. M52 x 2.5mm buttress threads. Applicable: **JAGUAR** S type [2003–2008], X Type [2003–2008], XF [2009–2013], XJ [2003–2013], XK [2003–2013]; Land Rover: Freelander [2005], LR3 [2005–2014], Range Rover Sport [2006–2014].



**#FZ 47** **TANK**  
**ADAPTER**



For pressurizing the cooling system. Adapter has M49 x 2.5mm buttress threads. Applicable: **LAND ROVER** LR2 [2007–2008].



**#JA 19015** **OIL FILTER**  
**WRENCH**

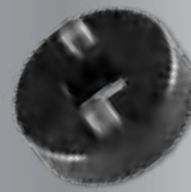


Applicable: **JAGUAR** [2010–newer] 5.0L [V8] in XJ, XJL, XK, XKR, XF, XFR & XKR; **LAND ROVER** [2010–newer] 5.0L [V8] in the LR4, Ranger Rover & Range Rover Sport. **SUPERCEDES JA 9015**

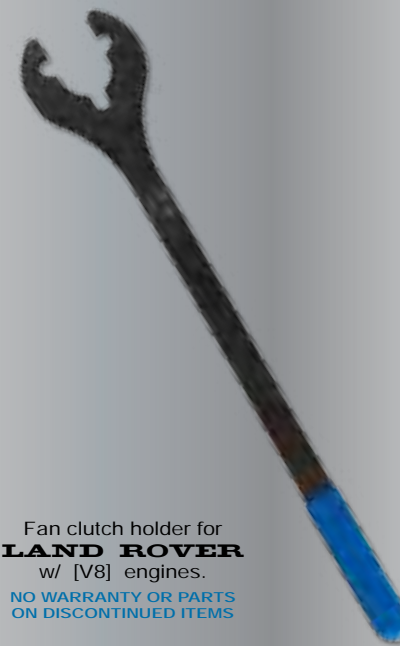


**BRAKE CALIPER**  
**PISTON ADAPTER** **#V 450**

3/8" Drive. For turning in the rear brake caliper piston. Applicable: **FORD** Fusion; **JAGUAR** S-Type, **LINCOLN** MKZ; Saab 9-3; **VOLVO** [2005 & newer] 40 & 50 series; **MAZDA** 3, **MINI** Cooper/S [2002–2006].



**FAN CLUTCH**  
**HOLDER** **#8007**



Fan clutch holder for **LAND ROVER** w/ [V8] engines. **NO WARRANTY OR PARTS ON DISCONTINUED ITEMS**

**VANOS**  
**SOLENOID**  
**SOCKET** **#BMW 432**



32mm socket used for removing & installing the VANOS Solenoid valves. **COMPARABLE FACTORY \*303-1015 (LRT-12-226)**

**#BMW 462 TU**  
**M62TU [V8]**  
**DOUBLE VANOS**  
**TIMING SET**



Used in conj. w/ **\*BMW 480** & the **\*BMW 400-1**. Applicable: **LAND ROVER** w/ BMW M62TU engine. Includes all the following comparable Land Rover factory tools: **\*303-1009 (LRT-12-220)** 2 locking pins for secondary chain tensioner to lock tensioner pistons into place (when removing & installing sprockets); **\*303-1011 (LRT-12-222)** chain tensioner tool for tensioning the primary chain; **\*303-1016 (LRT-12-227)** TDC pin for setting the flywheel at TDC; **\*303-1017 (LRT-12-228)** VANOS locking fixtures for fixing camshaft sensor wheel in position during assembly; **\*303-1013 (LRT-12-224)** VANOS adjusting pin wrench socket for adjusting VANOS to left stop during assembly & for adjusting valve timing; **\*303-1010 (LRT-12-221)** tensioning bracket for screwing in the chain tensioner w/ top right timing case removed. Most tools made in USA.



**BMW [V8] CAM**  
**ALIGNMENT** **#BMW 480**  
**TOOL**

For the M60, M62 & M62TU engines. **COMPARABLE TO BMW \*112440 & LAND ROVER \*LRT-12-223 & \*303-1012**



**\*BMW 480**  
**SHOWN HERE**  
**IN USE**



**#JLR 4042**  
**JAGUAR /LAND**  
**ROVER TIMING SET**

Engine timing tool set used on **JAGUAR** 4.0L & 4.2L [1998–2009] & **LAND ROVER** 4.4L [2005–2009] [V8] engines. Timing blocks made in USA.



**#OFGMRD08**  
**FORD/GM OIL FUNNEL**



Applicable: **CADILLAC** CTS, **CHEVY** Cobalt, Colorado, Duramax diesel trucks, Silverado, Tahoe, Trailblazer & vans; **FORD** Edge, Escape [V6], E-Series vans, Explorer, Expedition, F-150, F-350 [2011 6.7L turbo-diesel], Flex, Mustang, Ranger & Taurus SHO [2011]; **GMC** Envoy & Sierra; **HYUNDAI** Santa Fe [2001-2006] 4-cyl., Sonata [2002-2005], Tiburon [2006-newer] & Tucson [2004-newer]; **JAGUAR** S-Type/X-Type 3.0L [2000-2009] & 5.0L [V8] in [2010-2013] XJ, XJL, XK, XKR, XF, XFR & XKR; **LAND ROVER** [2010-newer] 5.0L [V8] in LR4, Ranger Rover & Range Rover Sport; **MAZDA** CX-9 3.7L; **MERCURY** Mountaineer; **PONTIAC** G6 & Grand Prix; **SAAB** 9-3 [2003-newer]; **SATURN** SL1.

FOR FORD POWER STROKE DIESEL ENGINES (6.9L, 7.3L, 6.0L & 6.4L) SEE \*OFHON1033



**#FZ 580**

**COOLING SYSTEM ADAPTER SET**



Simply thread on the taller or shorter ring to accommodate a shallow or deep neck. Works w/ many different Asian & domestic vehicles. Fits both deep & shallow radiator necks.

\*FZ 580 SHOWN HERE IN USE

**#ATF 1002**  
**BASIC BASIC DRIVE LINE FILLER**



For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Set includes pump, 3 liter container, hose, shut-off valve & \*ATF 102. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS

**TANK ADAPTER**

**#FZ 128**

For pressurizing cooling system. Works w/ many different Asian & domestic vehicles.



**TANK ADAPTER**

**#FZ 138**

For pressurizing cooling system. Works w/ many different Asian & domestic vehicles. Applicable: [2014] **HONDA** Accord Sport, [1994-2013] Honda Civic & [2014] Honda CR-V.



**TANK ADAPTER**

**#FZ 47**

Used for pressurizing the cooling system. Adapter has M49 x 2.5mm buttress threads. Applicable: **FORD** Escape 1.6L [2013], Focus [2012], Fusion [2013]. **MAZDA** 3 & 6 [2004-newer].

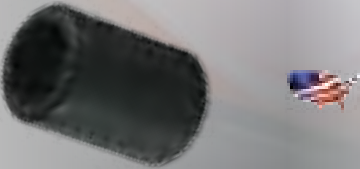


\*FZ 47 SHOWN HERE IN USE



**MITSUBISHI FLYWHEEL BOLT SOCKET**

**#MITSU10PT**



12mm, 10-Pt. socket used for flywheel bolts on **MITSUBISHI** cars.

**BRAKE CALIPER PISTON ADAPTER**

**#V 450**

3/8" Drive. For turning in the rear brake caliper piston. Applicable: **FORD** Fusion, **LINCOLN** MKZ & **MAZDA** 3.



**MAZDA OIL FILTER WRENCH**

**#2176**

Applicable: **MAZDA** 3 [2010-2012], 5 [2012 & newer], CX-7 [2010-2012], Mazdaspeed 3 [2010-2012] & MX-5 Miata [2006-2012].



**74MM OIL FILTER WRENCH**

**#M 0219**



74mm, 14 flats, uses a 22mm socket. Applicable: **FORD** Escape 2.3L [2006-2008] (Hybrid), Focus 2.3L [2004-2007], Fusion 2.3L [2006-2008]; **MAZDA** 3 [2004-2009], 5 [2006-2011], 6 [2003-2009], CX-7 2.3L turbo [2007-2009] & Mazdaspeed 3 [2007-2009].

\*M 0219 SHOWN HERE IN USE



**#OFFM2012**  
**FORD/MAZDA OIL FUNNEL**



Used on newer **FORD** & **MAZDA** cars equipped w/ 4-cyl. engine. Made of durable ABS plastic. No more messes. Attaches directly to engine oil filler neck/valve cover. Applicable: Ford Explorer 2.0L Eco-boost [2012-2013], Escape 2.5L [through 2012], Escape 2.0L Eco-Boost [2013], Focus 2.0L [2007-2013] & Fusion 2.0L hybrid [2013]; **LAND ROVER** Range Rover Evoque 2.0T [2012-2013]; Mazda 3 [2006-2013], CX-5 [2013-newer], MX-5 Miata [2006-2013] & Mazdaspeed 3 2.3L turbo [2010-2013].

MAY NOT FIT SOME APPLICATIONS WHERE THE FIRE WALL COWL DOESN'T PROVIDE CLEARANCE FOR ATTACHMENT OF FUNNEL



\*FM 2330 SHOWN HERE IN USE

**#FM 2330**  
**3PC. MAZDA/FORD 2.3L TIMING SET**



Used on all 2.3L engines (turbo & naturally aspirated). Applicable: **MAZDA** 3 [2004-2012], 5 [2006-2012], 6 [2003-2012], Mazdaspeed 3 [2007-2012], Mazdaspeed 6 [2006-2007] & CX-7 [2007-2012]; **FORD** Escape [2005-2011], Focus [2003-2011], Fusion [2006-2011] & Ranger [2001-2011].

COMPARABLE: FACTORY \*303-507 (CRANK PIN), \*303-465 (CAM BAR) & \*303-1061 (TURBO CAM PLATE)



**#3101**  
**8-PC. RADIO**  
**REMOVAL SET**



Includes: #2040, #BMW 050, #3344 A (includes two pairs), #M 2070, #3316, #BMW 025 & #BMW 010. Applicable: **FORD** & **VW** w/ DIN chassis, **BMW** models w/ anti-theft radio, **AUDI** A4, A6, A8 & VW new Beetle, [1992 & later] **MERCEDES** 129, 140, 163, 202 & 210 models, VW Passat, Jetta & Golf, center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39). Most tools made in USA

**MERCEDES-BENZ**  
**REAR BUMPER** **#H 2797-1**  
**SOCKET**



10mm, 160mm long, 1/4" drive.

**T-20**  
**T-HANDLE** **#3200 T-20**  
**DRIVER**



Used to access the door handle fasteners on **VW** models. Applicable: [2001-2004] C-Class w/ 203 chassis & newer VW Golf, Jetta, Beetle & Passat.  
**COMPARABLE VW: \*T 10072**

**RADIO**  
**REMOVAL** **#M 2070**  
**TOOL**



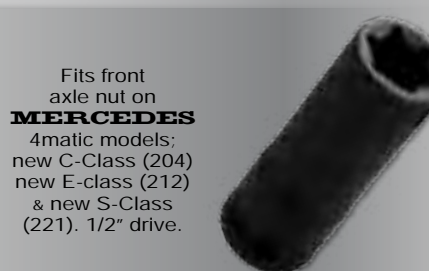
For radio removal on [1992 & later] **MERCEDES**. Applicable: Mercedes chassis 140, 129, 202 & 210.

**T-30 TORX** **#3200 T-30**  
**SCREWDRIVER**



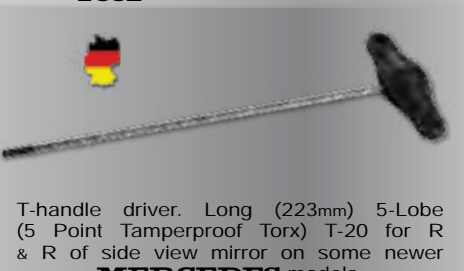
Used to access the door handle fasteners on **MERCEDES**. Applicable: [2000-2004] Mercedes S-Class w/ 220 chassis. Also used for R & R & adjustments of headlamps on [1999-2004] **AUDI** A6.

**E24 FEMALE** **#M 0E24**  
**IMPACT SOCKET**



Fits front axle nut on **MERCEDES** 4matic models: new C-Class (204) new E-class (212) & new S-Class (221). 1/2" drive.

**MERCEDES**  
**MIRROR TORX** **#H 2715-20H**  
**TOOL**



T-handle driver. Long (223mm) 5-Lobe (5 Point Tamperproof Torx) T-20 for R & R of side view mirror on some newer **MERCEDES** models.

**30MM DEEP** **#100-30 A**  
**SOCKET**

30mm, 1/2" drive, thin-walled, 85mm long, 12-pt. socket used for R & R of transmission drive shaft flange nut & pinion shaft flange nut of differential on older **MERCEDES**.



**MERCEDES**  
**CAMSHAFT** **#M 3200 A**  
**ALIGNMENT PLATES**

Used for cam alignment. Applicable: [1998 & later] **MERCEDES** w/ M 112 & M 113 engines (exc. AMG models) & Chrysler Crossfire (exc. SRT6).

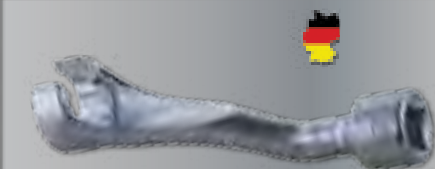


**MERCEDES 274**  
**CAMSHAFT** **#M 27164**  
**ALIGNMENT FIXTURE**



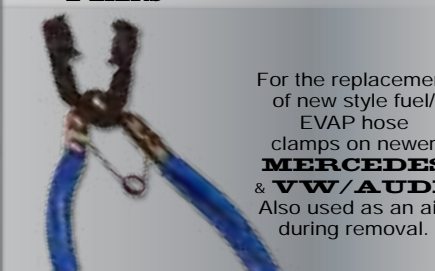
For **MERCEDES** models w/ 271 4-cyl. engine.

**19MM FUEL** **#H 4550-2**  
**LINE WRENCH**



Applicable: 16' & 20' **MERCEDES** diesel trucks. Fits lines at delivery pump on **CUMMINS** turbo diesel 5.2L.

**ANGLED FUEL/**  
**EVAP CLAMP** **#M2010ACP**  
**PLIERS**



For the replacement of new style fuel/ EVAP hose clamps on newer **MERCEDES** & **VW/AUDI**. Also used as an aid during removal.

**TANK** **#FZ 32 A**  
**ADAPTER**

Used for Pressurizing the cooling system. Applicable: [1998-2005] **MERCEDES M** Class (163).



**CAP ADAPTER** **#FZ 36**

For testing pressure relief in cooling system cap. Applicable: **MERCEDES M** Class (163) [1998-2005].



**TANK** **#M 0349**  
**ADAPTER**

For pressurizing cooling system. Applicable: [1998-2013] **MERCEDES** models w/ a threaded filler neck (exc. M-Class, 163 body).

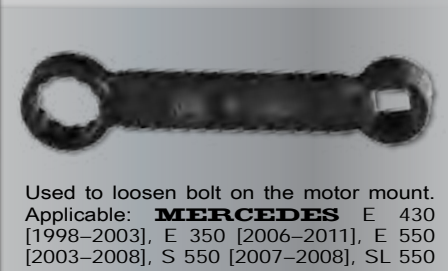


**8MM ALLEN** **#S 3049-8**  
**SOCKET**

3/8" drive. For R & R of viscous fan coupling w/ the radiator in place. Applicable: M 103, 104, 119, 120, OM 602, 603, 605 & 606.



**MOTOR MOUNT** **#M 1620**  
**WRENCH**



Used to loosen bolt on the motor mount. Applicable: **MERCEDES** E 430 [1998-2003], E 350 [2006-2011], E 550 [2003-2008], S 550 [2007-2008], SL 550 [2003-2008] & CL 550 [2006-2008].



**#FZ 1002**  
**COOLING ADAPTER SET**

Includes: #BMW 345-fits **BMW** [2004-2005] 3 series, [2002-2006] 7 series, [2005-2006] X3 & X5, **LAND ROVER** [2002] Discovery & [1995-2004] Range Rover; #FZ 22-**PORSCHE** 911 (water-cooled, w/ threaded necks) & Boxster; **VOLVO** 670 & VN 430; **VW/AUDI** A8, all [1975-1993] w/ male threads on exp. tank & S8; #FZ 25-all [1987-1990] **JEEP**; [2002] Land Rover Freelander; **MINI** Cooper S: all [1985-1987] Renault; [1978-1994] **SAAB** 900 & [1986-1998] 9000, all [1987-1991] Sterling; [1978-2006] Volvo w/ threaded neck & [1978-2006] Volvo trucks w/ 47mm X 3mm threads on secondary filler neck; #BMW 350-[2006-2009] BMW 3 series (E90), [2004-2009] 5 & 6 series (E60, E63, E64) & X5 [2007-2009] (E70); #FZ 41-all Porsche; All [1999-2013] VW/Audi (exc. A8 & S8); \*M 0349-all [1996-newer] **MERCEDES** w/ threaded cap [exc. 1998-2005 M-class (163)].



**MULTI-TOOTHED**  
**ALTERNATOR** **#H 2592**  
**PULLEY SOCKET**

Used for R & R of free-wheel pulley on the alternator. Used in conj. w/ #S 3054 X-10 or #S 1054TX T-50 sockets. Applicable Engine: 602.982, 611.981, 611.987, 612.965, 612.966, 612.981, 613.960, 628.962, 628.963, 642.992, 642.992, 646.951, 646.961, 646.962, 646.963, 647.961 & 647.981.



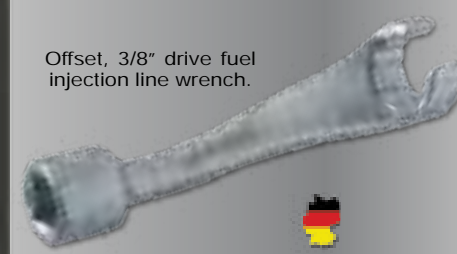
**COMPARABLE: MERCEDES** #62 589 00 10 00

**17MM VALVE** **#H 2774**  
**ADJ. WRENCH**

Used for valve adjustment on **MERCEDES** M110 gas engines (DOHC 6-cyl., tappet springs need not be removed). Also used to pry off the spark plug connectors from the spark plugs on 112 & 113 motors.  
**COMPARABLE: MERCEDES** #110 589 01 01 00



**17MM** **#H 4550**  
**INJECTION**  
**LINE WRENCH**



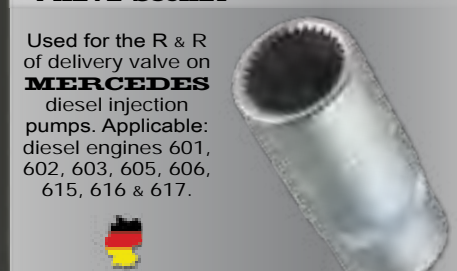
Offset, 3/8" drive fuel injection line wrench.

**27MM DEEP** **#H 4555 N**  
**SOCKET**

27mm deep socket, w/ 1/2" drive. Used for **MERCEDES** diesel injection nozzles w/ special relief-turned section to accommodate the small leakage return tubes. Total length of 3 7/16".



**MERCEDES**  
**DELIVERY** **#H 4556**  
**VALVE SOCKET**



Used for the R & R of delivery valve on **MERCEDES** diesel injection pumps. Applicable: diesel engines 601, 602, 603, 605, 606, 615, 616 & 617.

**MERCEDES**  
**HEADBOLT** **#H 992**  
**SOCKET** **SLG-T55**



T-55 Torx socket. Applicable: **MERCEDES** w/ motors M112 & M113. 140mm in length. 1/2" Drive & extra long for easy access. Applicable: headbolts on 2.4L New World engine in [2007] **DODGE** Caliber.

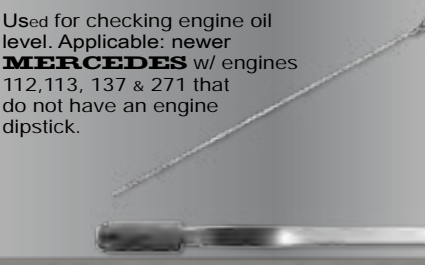


#2101

**7-Pc. OIL FILTER WRENCH SOCKET SET**

Includes oil filter wrench sockets for many domestic & foreign applications. Set covers all **MERCEDES** applications. The 27mm, 32mm & 36mm hex sizes cover **VW/AUDI, BMW**, newer Mercedes 4-cyl. engines, **SATURN & GM** 2.2L Ecotec engines. Covers **FORD** Escape Hybrid & Ford OEM \*FL 910 & \*FL 793. The four cup-style wrenches cover many VW, BMW, **TOYOTA & MAZDA** 3. Also covers **DODGE** Sprinter & **JEEP** 3.0L CRD engines & [1999-2013] **VOLVO** models.

**ENGINE OIL DIPSTICK #M 0721**



**SPRINTER GLOW PLUG PLIERS #SPR 0558**



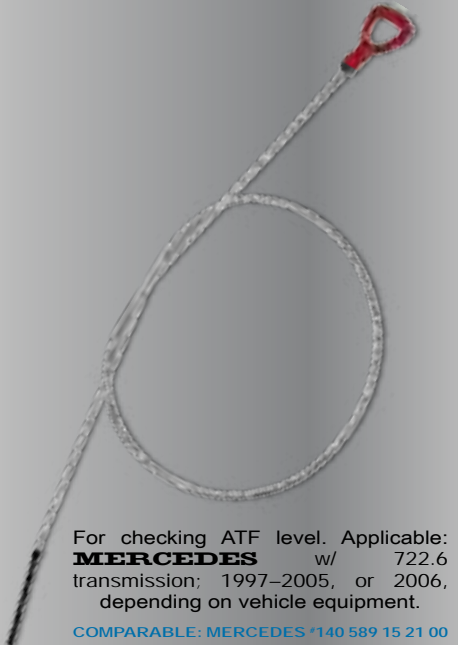
For disconnecting the electrical connector that is attached to the glow plug used on **MERCEDES-BENZ & DODGE** Sprinters.

**OIL DRAIN & PLUG WRENCH #H 2760-2**

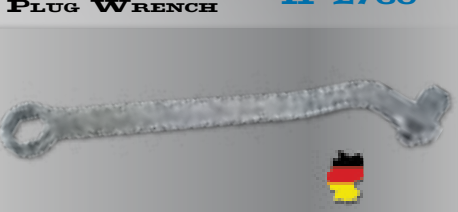


14mm Allen, 13mm box wrench. Used for the R & R of the differential oil filler plug on many **BMW & MERCEDES**.

**#M 7226 722.6 TRANS DIPSTICK**

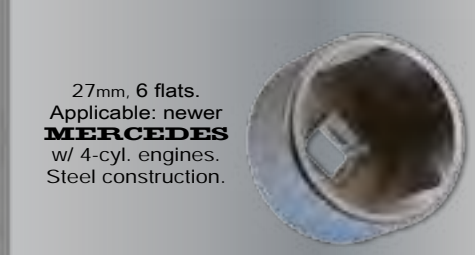


**OIL DRAIN & PLUG WRENCH #H 2760**



14mm Allen, 17mm box wrench used for the R & R of the differential oil filler plug on many **BMW & MERCEDES**.

**27MM OIL FILTER SOCKET #2127**



27mm, 6 flats. Applicable: newer **MERCEDES** w/ 4-cyl. engines. Steel construction.

**36MM OIL FILTER SOCKET #2136**



36mm, 6 flats. Applicable: **MERCEDES** diesel 604, 605 & 606 engines. Steel Construction.

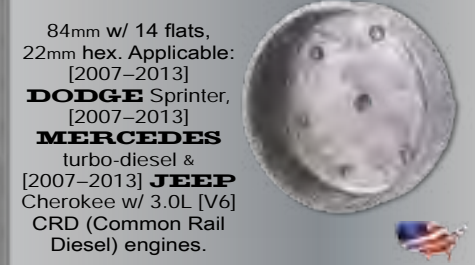
**74MM OIL FILTER WRENCH #M 0219**



74mm, 14 flats, uses a 22mm socket. Applicable: **MERCEDES** 112, 113, 272 & 273 engines [1998-newer].

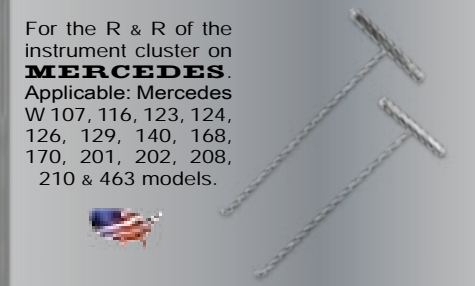
COMPARABLE: **MERCEDES** \*103 589 02 09 00

**84MM OIL FILTER WRENCH #M 0284**



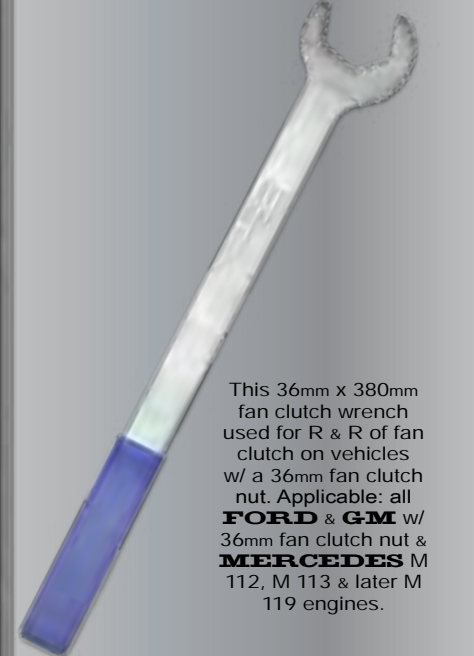
84mm w/ 14 flats, 22mm hex. Applicable: [2007-2013] **DODGE** Sprinter, [2007-2013] **MERCEDES** turbo-diesel & [2007-2013] **JEEP** Cherokee w/ 3.0L [V6] CRD (Common Rail Diesel) engines.

**PULLER SET (PAIR OF HOOKS) #M 0333**



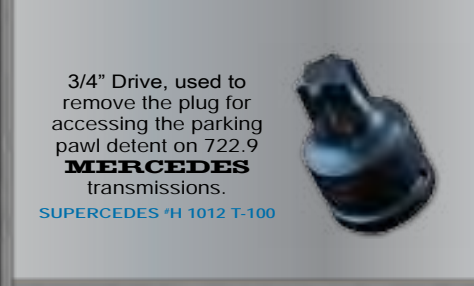
For the R & R of the instrument cluster on **MERCEDES**. Applicable: Mercedes W 107, 116, 123, 124, 126, 129, 140, 168, 170, 201, 202, 208, 210 & 463 models.

**36MM FAN CLUTCH WRENCH #8036**



This 36mm x 380mm fan clutch wrench used for R & R of fan clutch on vehicles w/ a 36mm fan clutch nut. Applicable: all **FORD & GM** w/ 36mm fan clutch nut & **MERCEDES** M 112, M 113 & later M 119 engines.

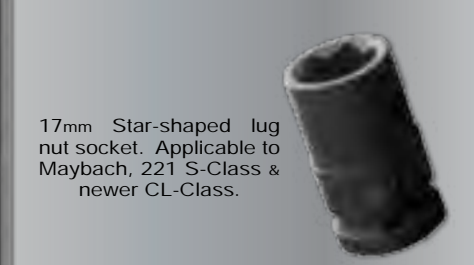
**T-100 TORX SOCKET #6500 T-100**



3/4" Drive, used to remove the plug for accessing the parking pawl detent on 722.9 **MERCEDES** transmissions.

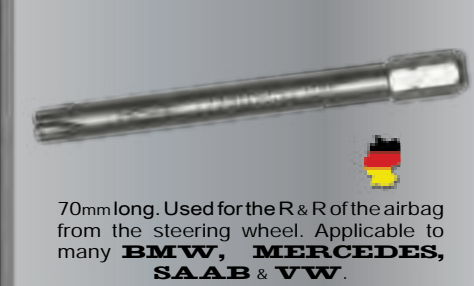
SUPERCEDES \*H 1012 T-100

**LUGNUT SOCKET #M 17 WLS**



17mm Star-shaped lug nut socket. Applicable to Maybach, 221 S-Class & newer CL-Class.

**TORX SOCKET INSERT #H 2223 LG T-30**



70mm long. Used for the R & R of the airbag from the steering wheel. Applicable to many **BMW, MERCEDES, SAAB & VW**.



**\*ATF 1004-5 MB**

**MERCEDES DRIVE LINE FILLER**

For filling transmission fluid in the **MERCEDES** 722.9 automatic transmissions using a 12mm x 1.5 adapter. Includes pump, 5 liter container, hose, shut-off valve & the \*ATF 129 adapter.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPARATELY. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS  
SEE \*ATF 129 BELOW FOR DETAILED APPLICATIONS

**MERCEDES "722.9" ATF FILLING ADAPTER #ATF 129**

12mm x 1.5 **MERCEDES** adapter for 722.9 automatic transmissions. Applicable: (164) GL 320 CDI 4MATIC, GL 450 4MATIC, GL 500 4MATIC, GL 550 4MATIC, ML 320 CDI 4MATIC, ML 350 4MATIC, ML 500 4MATIC, & ML 550 4MATIC. (171) SLK 280, SLK 350 & SLK 55 AMG. (203) C 230, C 280, C 350 & CLC 230. (204) C 230, C 230 4MATIC, C 280, C 280 4MATIC, C 300, C 300 4MATIC, C 350 & C 350 4MATIC. (209) CLK 350, CLK 350 Cabriolet, CLK 500, CLK 500 Cabriolet, CLK 550 & CLK 550 Cabriolet. (211) E 320 CDI, E 350, E 500, E 500 4MATIC, E 550. (215) GL 500. (216) CL 500, CL 550 & CL 63 AMG. (219) CLS 500, CLS 550, (220) S 430 & S 500. (221) S 450 4MATIC, S 500 L, S 550 L & S 550 L 4MATIC. (230) SL 500 & SL 550. (251) R 320 CDI 4MATIC, R 350 L, R 350 L 4MATIC, R 500, R 500 L 4MATIC & R 550 L 4MATIC.



ATF 129 SHOWN HERE IN USE

**EURO 1/4 TURN OIL FILLER #OFAUD1000**



Applicable: **BMW, DODGE** Sprinter 2.7L, **MERCEDES, VW/AUDI** (1.8 T, 1.9L TDI, 2.0 T, 2.8L, 3.0L, 3.2L, 3.6L & 4.2L) & **VOLVO** 2.5L engines. Also fits Teledyne motors 550 & 520 found in **BEECHCRAFT & CESSNA** aircraft.

**GLOW PLUG SOCKET #M 820**



3/8" drive, 8mm glow plug socket. Applicable: **MERCEDES & SPRINTER**.

**GLOW PLUG SOCKET #M 1020**



3/8" Drive, 10mm glow plug socket. Applicable: **SPRINTER**.



**#MC 1400**  
**MINI COOPER**  
**ENGINE**  
**TIMING SET**

Used on N14 turbo-charged engines [2007-2010].  
COMPARABLE: FACTORY \*119550 & \*119590. MAY REQUIRE THE FOLLOWING ADDITIONAL TOOLS: \*BMWMC280 & \*BMW 6222. FOR THE N12 & N16 NON-TURBO ENGINES, YOU NEED THE \*MC 1216 CAMSHAFT TIMING SET

**BMW CHAIN TENSIONER TOOL** **\*BMW 6222**

Used for tensioning the timing chain when adjusting timing. Applicable: N12, N14, N16, N18, N40, N42, N45, N46, N52 & N54  
COMPARABLE: BMW \*119340



**FLYWHEEL LOCKING PIN** **\*MC 1400-1**

Used for locating the crankshaft in TDC position. Applicable: **MINI** Cooper: [2007+] N12, N14, N16 & N18 engines.  
INCLUDED IN \*MC 1400 TIMING SET. COMPARABLE TO FACTORY TOOL \*119590



**#BMW 4622**  
**FUEL LEVEL SENSOR**  
**LOCK RING TOOL**

Used to remove the fuel level lock ring. Applicable: **BMW** & **MINI** Cooper [1988-2013]: E31, E34, E36, E38, E39, E46, E53, E60, E63, E64, E65, E83, E85, E90, R50, R52, R53, R55, R56 & R57.  
COMPARABLE: BMW \*161020

**BMW Lock Cyl. Tool** **\*BMW 323**



For releasing lock cyl. in steering wheel lock during removal. Applicable: **BMW**/**MINI** Chassis: E31, E32, E34, E36, E38, E39, E46, E60, E61, E63, E64, E83, E85, R50, R52 & R53.

**\*MC 240** **MINI COOPER**  
**WINDOW**  
**WRENCH**



Hook wrench used for adjusting the door window glass to fit.  
COMPARABLE TO MINI FACTORY TOOL \*513240

**MINI REAR CALIPER BRAKE PISTON TOOL** **\*MC 560**

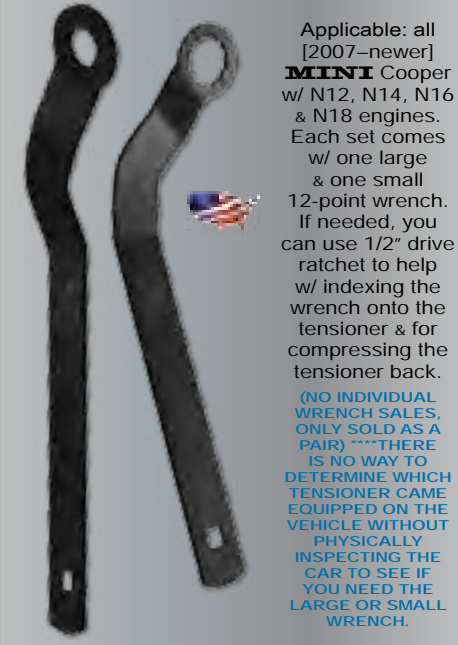
Rear caliper brake piston tool. Used w/ a universal 3/8" brake caliper tool. Applicable: **MINI** Cooper [2007-newer] models (exc. the "Countryman").  
FOR 2002-2006 MINI COOPER, SEE \*V 450.  
COMPARABLE: \*346309

**BRAKE CALIPER PISTON ADAPTER** **\*V 450**

3/8" Drive, used w/ a universal 3/8" brake caliper tool. For turning in the rear brake caliper piston. Applicable: **FORD** Fusion, **JAGUAR** S-Type, **LINCOLN** MKZ, **MAZDA** 3, **MINI** Cooper/S [2002-2006], **SAAB** 9-3 & **VOLVO** [2005 & newer] 40 & 50 series.  
FOR [2007-NEWER], SEE \*MC 560



**MINI COOPER SERPENTINE BELT WRENCHES** **\*MC 114**



Applicable: all [2007-newer] **MINI** Cooper w/ N12, N14, N16 & N18 engines. Each set comes w/ one large & one small 12-point wrench. If needed, you can use 1/2" drive ratchet to help w/ indexing the wrench onto the tensioner & for compressing the tensioner back.  
**(NO INDIVIDUAL WRENCH SALES, ONLY SOLD AS A PAIR) \*\*\*\*THERE IS NO WAY TO DETERMINE WHICH TENSIONER CAME EQUIPPED ON THE VEHICLE WITHOUT PHYSICALLY INSPECTING THE CAR TO SEE IF YOU NEED THE LARGE OR SMALL WRENCH.**

**TANK ADAPTER** **\*FZ 25**



For pressurizing cooling system. Fits **MINI** Cooper w/ 47x3mm threads on the filler neck.



**#MC 1216**  
**MINI COOPER**  
**CAMSHAFT**  
**ALIGNMENT TOOL**

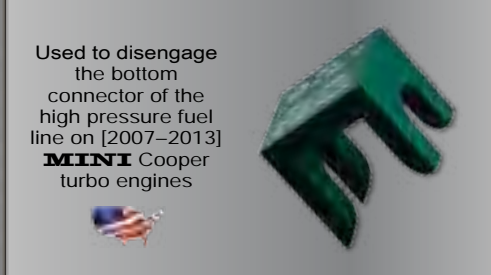
Applicable: [2007-newer] **MINI** Cooper w/ N12 & N16 (non-turbo) engines.  
COMPARABLE: MINI \*119540 ADDITIONAL TOOLS REQUIRED ARE THE \*BMWMC280, \*BMW 6222 & \*MC 1400-1

**SPARK PLUG SOCKET** **\*SP1412**



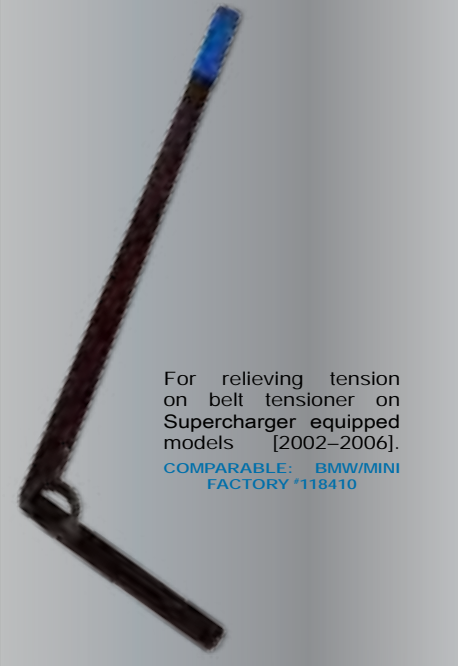
14mm, 12-Point spark plug socket w/ 3/8" drive. Applicable: [2007 & newer] turbo-charged **MINI** Cooper.  
COMPARABLE: BMW TOOL \*121220. SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION

**LINE DISCONNECT TOOL** **\*BMW 8390**



Used to disengage the bottom connector of the high pressure fuel line on [2007-2013] **MINI** Cooper turbo engines

**MINI COOPER SERPENTINE BELT TOOL** **\*MC 100**



For relieving tension on belt tensioner on Supercharger equipped models [2002-2006].  
COMPARABLE: BMW/MINI FACTORY \*118410

**CRANKSHAFT HOLDER** **\*BMWMC280**



Used for holding crankshaft when releasing or tightening the central bolt.  
Applicable: **BMW** & **MINI** Cooper (N12, N14, N16, N18, N51 & N52).  
COMPARABLE TO FACTORY TOOL \*119280 & \*83 30 0493940



**\*BMW 8390**  
**SHOWN HERE**  
**IN USE**



**#ATF 1002-5 BASIC**  
5L, BASIC DRIVE LINE FILLER

- > USED ONLY TO FILL, NOT TO DRAIN—SO CLEAN FLUID STAYS CLEAN
- > QUICK ATTACHMENT ADAPTERS
- > ON/OFF BALL VALVE
- > HOSE LENGTH 4 FT. 10IN.
- > ADDITIONAL CONTAINER SIZES AVAILABLE
- > HAND PUMP DISPENSES EFFICIENTLY

For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Set includes pump, 5 liter container, hose, shut-off valve & the #ATF 102.  
NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS



**#ATF 1002 BASIC**  
3L, BASIC DRIVE LINE FILLER

For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. The #ATF 1002 BASIC includes pump, 3 liter container, hose, shut-off valve & the #ATF 102.  
NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS



**MINI & VW/ AUDI ATF ADAPTER #ATF 105**



Used on **MINI** Cooper w/ "AISIN" trans. Does not include pump, container, hose, or shut-off valve.

USED IN CONJ. W/ THE ATF FILLER SYSTEM WILL NOT THREAD INTO CVT TRANS—USE #ATF SU100 W/ #ATF 1002-5 BASIC.

**UNIVERSAL ATF ATTACHMENT #ATF SU100**



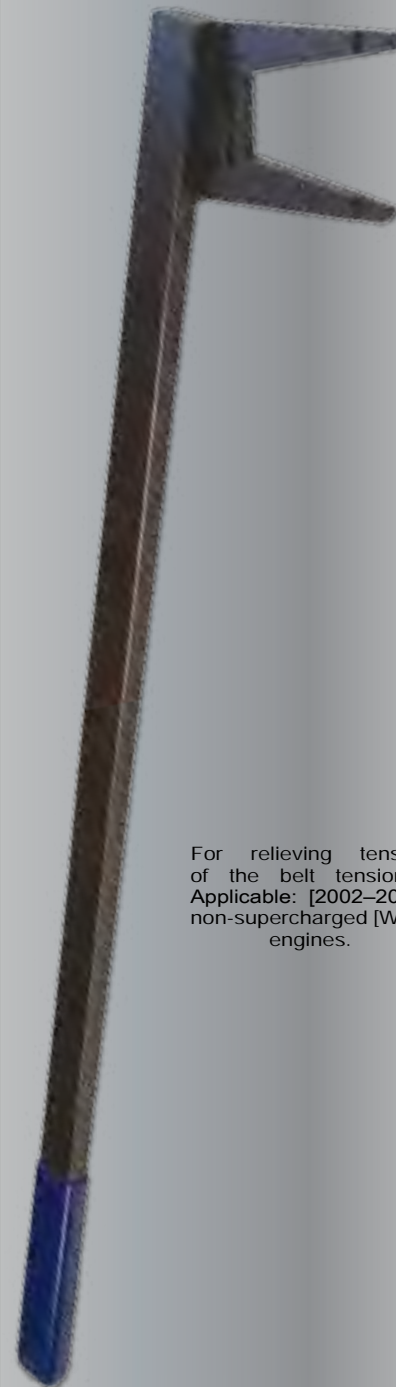
Used w/ our ATF Drive line fillers. This adapter is flexible to fit into hard to reach applications where there is at least a 10mm inside diameter opening. Applicable: **MINI** Cooper w/ "CVT" transmission.

**27MM OIL FILTER SOCKET #2127**

(27mm, 6 flats). Applicable: [2007–2012] **MINI** Cooper S models.



**MINI COOPER SERPENTINE BELT TOOL #MC 103**



For relieving tension of the belt tensioner. Applicable: [2002–2006] non-supercharged [W10] engines.



**#MC 814**  
MINI COOPER FUEL LINE TOOL



Used to disconnect the fuel line from high pressure fuel pump driven by mechanical connection to the intake camshaft. Applicable: [2007–2013] **MINI** Cooper turbo models.

SOME [2010–2011] MODELS, YOU NEED TO LOOSEN THE 14MM FLARE NUT ON THE FUEL RAIL FEED LINE & REMOVE THE LOWER 8MM FUEL PUMP RETAINING BOLT TO USE THE TOOL. COMPARABLE: MINI FACTORY #130250



**#2136**  
36MM OIL FILTER SOCKET

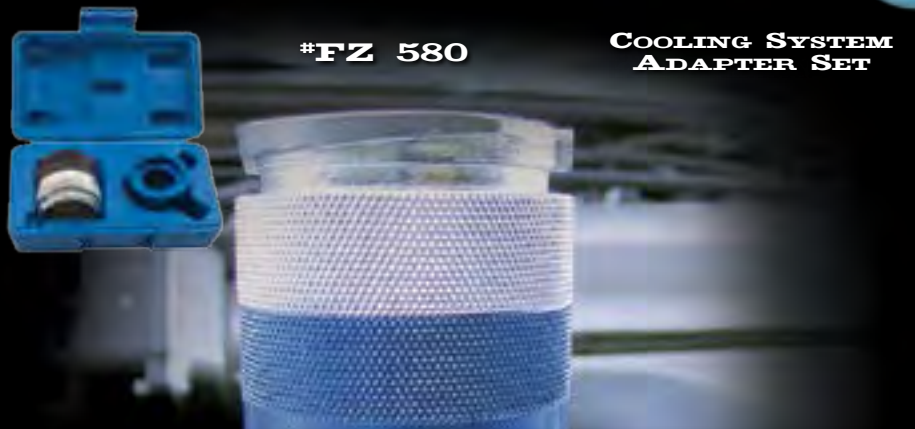


(36mm, 6 flats) Oil Filter Socket. Applicable: [2002–2006] **MINI** Cooper S models.



#FZ 580

COOLING SYSTEM ADAPTER SET



Using the threaded rings & one base, all small-neck tab style radiators & expansion tanks can be pressurized w/ this new product. Simply thread on the taller or shorter ring to accommodate a shallow or deep neck. Applicable: many different Asian & Domestic motorcycles. Fits both deep & shallow radiator necks.

Pat. 72  
TECH  
TIP

- > MADE OF DURABLE ABS PLASTIC
- > NO MORE MESS
- > THREADS & SEALS JUST LIKE THE OIL CAP



#OFHD35

HARLEY-DAVIDSON OIL FUNNEL

Applicable: [2007–2013] HARLEY-DAVIDSON Dyna & Touring Models.



TANK ADAPTER

#FZ 128

For pressurizing cooling system. Applicable: many different Asian/Domestic motorcycles.



TANK ADAPTER

#FZ 138

For pressurizing cooling system. Applicable: many different Asian/Domestic motorcycles.



#M 0219

74MM OIL FILTER WRENCH



Used on **BMW** motorcycles. Applicable: K75/100/1100 [all models & years], K 1200LT [all models & years], K1200RS/GT [through 2004], all K1300 models, R850/1100/1150 [all models & years], R1200C/CL bikes, R1200GSW water-cooled bikes [2013–newer], F800/650 twin bikes, S1000RR & [2005–newer] K1200S/R/GT using the filter specified by BMW (BMW #11427721779, #11427719357, #11421460845).

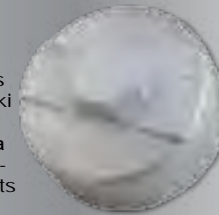


#M 0219 SHOWN HERE IN USE

OIL FILTER WRENCH

#5063

63mm, 14 flats. Applicable: most **HONDA** vehicles (exc. S2000) Kawasaki motorcycle filter #16097-0003, Yamaha motorcycle filter #5GH-13440-00 & Powersports (Honda Polaris, Kawasaki, Yamaha) ATVs w/ #HF303 filters



OIL FILTER WRENCH

#BM 1276

3/8" Drive, 76mm, 12 Flutes. Fits [2007–2013] **BMW** motorcycles F650F, F800GS, HP2, R1200GS/RT/ST/S/R, K 1600 GT & GTL, S 1000 RR, K 1200 S/R/GT [2005–newer], all K1200S/R/R-Sport, K1200GT [GT models, 2005–newer], R1200RT/ST/R/ST/GS ADV, F800/650 (twins), K1600GT/GTL & S1000RR bikes. Fits BMW OEM Filter 11 42 7 673541. Fits Man Filter #MW 75.

**BMW HAS CHANGED THE FILTER SPECIFIED FOR CERTAIN BIKES. MAKE SURE THE FILTER YOU ARE USING HAS 12 GROOVES.**

HARLEY-DAVIDSON OIL FILTER WRENCH #HD 1474

For all **HARLEY-DAVIDSON** Motorcycles w/ a spin on oil filter. Machined opening for necessary clearance of crank sensor.



73MM TOYOTA OIL FILTER WRENCH

#TOY 730

73mm, 14 flats. Applicable: **YAMAHA** Marine Outboard Engines I-4 & (V6) & Yamaha Filter #69J-13440-00.



- > MADE OF DURABLE ABS PLASTIC
- > NO MORE MESS
- > PUSHES-IN & SEALS JUST LIKE THE OIL CAP

#OFHD419

HARLEY-DAVIDSON OIL FUNNEL

For the "Push-in Style" oil fill caps for **HARLEY-DAVIDSON** Touring models from [1999–2006].



JET REAMER SET #S 100

16-Piece set w/ a 0.33mm–2.0mm range. Applicable: **ATVs, MOTORCYCLES,** Porsche, VW/Audi models w/ carburetors.







**\*ATF 1002 BASIC**

**BASIC DRIVE LINE FILLER**



3 Liter capacity. Additional 5 & 10 Liter Drums also available. Quick attachment adapters. Pump dispenses efficiently. On/off Ball valve w/ safety catch. Container made of UHDP (Ultra High Density Polyethylene). Hose Length 4ft. 10in. Applicable: **BMW, HONDA, NISSAN** & many other universal applications. Includes pump, 3 Liter container, hose, shut-off valve & \*ATF 102.

**\*ATF 180 INFINITI TRANSMISSION FILLING ADAPTER**



Fits 2008–newer **INFINITI** w/ 7 speed automatic transmission Applicable: EX35 [2008–2012], G25/27 [2009–2012], QX56 [2011–2012], FX [2009–2012], M "Y50" [2010] & M "Y51" [2011–2012].

**\*8026 FUEL LINE DISCONNECT TOOL**

5/16" Fuel line disconnect tool for disconnecting the fuel line from the fuel rail. Applicable: [2004–newer] **NISSAN** models w/ 5/16" fuel rail.



\*8026 SHOWN HERE IN USE

**#SU 8015 OIL FILTER WRENCH**



80mm, 15 Flats. Applicable: **NISSAN** using filter #15208H8903 & #1520855Y00 (found in older Sentra & trucks).

**#5063 OIL FILTER WRENCH**



63mm, 14 Flats. Applicable: **NISSAN** [2002–2009] 350Z, [2009–2013] 370Z, [1997–2013] Altima, [2004–2013] Armada, [2009–2013] Cube, [1997–2013] Frontier, [2007–2013] GT-R, [2011–2013] Juke, [1994–2013] Maxima, [2002–2013] Murano, [1995–2013] Pathfinder, [2006–2013] Quest, [2007–2013] Rouge, [2007–2013] Sentra, [2004–2013] Titan, [2006–2013] Versa, [2004–2013] X-trail (Canada), [2002–2013] Xterra; **INFINITI** [2004–2007] M35 & M45 w/ VQ35DE engine.

\*5063 SHOWN HERE IN USE

**SOCKET #N 512**

**NISSAN** Flywheel Bolt socket.



**TANK ADAPTER #FZ 128**



For pressurizing cooling system. Applicable: **NISSAN** [1987–2004] all models, [2004] 350Z, [2006] Altima, [2004–2011] Frontier, [2000–2011] Maxima, [2004] Murano, [2004] Quest, [2000–2011] Sentra & [2004] X-Terra.

**TANK ADAPTER #FZ 32 A**

For pressurizing cooling system. Applicable: [2005–2011] & [2013–2014] **NISSAN** Armada, [2004] & [2013–2014] Titan. Also fits various **GM & FORD** models.



**CAP ADAPTER #FZ 36**

For testing pressure relief valve in cap. Applicable: [2005–2011] & [2013–2014] **NISSAN** Armada, [2004] & [2013–2014] Titan. Also fits various **GM & FORD** models.



\*FZ 36 SHOWN HERE IN USE



**\*OFHON1033 ASIAN/DOMESTIC OIL FUNNEL**

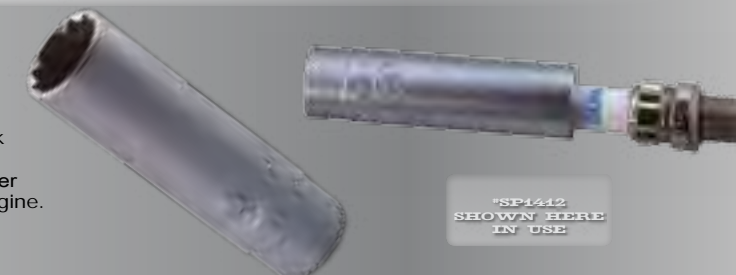


- > MADE OF DURABLE ABS PLASTIC
- > NO MORE MESS
- > THREADS & SEALS JUST LIKE THE OIL CAP

Applicable: most **NISSAN** through 2013 w/ threaded cap.

**SPARK PLUG SOCKET #SP1412**

14mm, 12-Point spark plug socket w/ 3/8" drive. Applicable: newer **NISSAN** w/ 1.8L engine.



\*SP1412 SHOWN HERE IN USE



**#2101**  
**7-PC. OIL FILTER**  
**WRENCH SOCKET SET**

Set contains oil filter wrench sockets for many domestic & foreign applications. Covers all **MERCEDES-BENZ** applications. The 27mm, 32mm & 36mm hex sizes cover **VW/AUDI, BMW**, newer Mercedes 4-cyl. engines, **SATURN & GM** 2.2 L Ecotec engines. Covers **FORD** Escape Hybrid & Ford OEM \*FL 910 & \*FL 793. The four cup-style wrenches cover many VW, BMW, **TOYOTA & MAZDA** 3. Also covers **DODGE** Sprinter & **JEEP** 3.0L CRD engines & [1999–2013] **VOLVO** models.



\*T 40057  
SHOWN HERE  
IN USE

**#T 40057** **VW OIL FILTER**  
**HOUSING DRAIN**

For draining the oil filter housing on [2006–2008] **VW/AUDI** w/ 2.0L turbo (engine codes: BPG, BPY, BWT) & [mid-2005–2011] 2.5L inline 5-cyl. VW engine.



**TOYOTA OIL FILTER WRENCH** **#TOY 640**

64mm, 14 Flats, use w/ 24mm or 15/16" socket. Applicable: all models through 2013 w/ paper cartridge style filter & aluminum or plastic filter housing cover; **TOYOTA** Avalon [2005–2013], Camry 4-cyl. [1983–2013], [V6] [2007–2013], Corolla [1983–2013], Echo [2000–2005], 4 Runner 4.0L [2010–2013], Highlander 4-cyl. [2001–2013] [V6] [2008–2013], Matrix [2003–2013], Prius [2001–2013], RAV4 [1996–2013], Sequoia [2009–2013], Sienna [2007–2013], Tundra [2007–2013], Venza [2009–2013] & Yaris [2006–2013]; **SCION** tC [2005–2013], xA [2004–2006], xB [2004–2013] & xD [2008–2013]; **LEXUS** CT 200h [2011–2013], ES 350 [2007–2013], GS 300 [2006], GS 350 [2007–2011], GS 450h [2007–2011], GS 460 [2008–2011], GX 460 [2010–2012], HS 250h [2010–2012], IS 250 [2006–2012], IS 250C [2010–2012], IS 350 [2006–2012], IS 350C [2010–2012], IS F [2008–2012], LS 460 [2007–2012], LS 600h [2008–2012], LX 570 [2008–2011], RX 350 [2007–2012] & RX 450h [2010–2012].



**86.5MM OIL FILTER WRENCH** **#V 410**

86.5mm, 16 Flats, used w/ a 22mm socket. Applicable: **BMW** w/ N52, N54, N55 & N63 engines. [2006–2013] & **VOLVO** vehicles from [1999–2007] & [2008 & later] where the housing is 86.5mm in diameter & not the 36mm hex.



COMPARABLE: **BMW** \*119240 & **VOLVO** \*9995679

**OIL FILTER WRENCH** **#SU 8015**

80mm, 15 Flats. Applicable: **HYUNDAI & KIA** 4-cyl, **NISSAN** vehicles using filter #15208H8903 & #1520855Y00 (found in older Sentra & trucks). Scion FR-S [2013 & newer], Subaru BRZ [2013 & newer] & vehicles w/ 6-cyl. engine using factory oil filter #15208AA031.



**24MM OIL FILTER SOCKET** **#2124**

24mm, 6 flats, used for the R & R of the oil filter housing cap. Applicable: **BMW** [2004–2013] w/ [V8] motor (N62); **CHRYSLER/DODGE/JEEP** [2011 & newer] equipped w/ 3.6L [V6].



**27MM OIL FILTER SOCKET** **#2127**

27mm, 6 flats. Applicable: **FIAT** 500 [2012]. **HYUNDAI** Azera [2009–2012], Equus [2011–newer], Genesis [V6/V8] [2008–newer], Santa Fe 3.3L [2009], Sonata 3.3L [2009] & Veracruz [2007–newer]; **KIA** Amanti [2007–2009], Borrego [2009–newer], Sedona [2007–newer] & Sorento [2007–2009]; **MERCEDES** C 230 1.8L [2002–2007]; **MINI** Cooper/s [2007–2012].



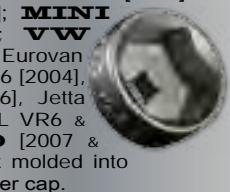
**32MM OIL FILTER SOCKET** **#2132**

32mm, 6 Flats, 3/8" drive. Applicable: **AUDI** S6 5.2L [2007], Q7 4.2L; **BMW** 335D [2009–2011], X5 35d [2009–2010] & X5 xDrive 35d [2011–2013]. **GM** Ecotec engines & **VW** Golf 2.0L TDI [2011].



**36MM OIL FILTER SOCKET** **#2136**

36mm, 6 flats. Applicable: **AUDI** Q7 3.6L; **BMW** M52, M60, M62, M70 & M73 engines; **FORD** F-250 6.0L TD [2004] & F-350 6.0L TD [2004]; **MINI** Cooper/S [2002–2006]; **VW** Corrado VR6 [1993], Eurovan VR6, Golf R32 3.2L VR6 [2004], Jetta 2.0L turbo [2006], Jetta 2.8L VR6, Passat 2.8L VR6 & Touareg; **VOLVO** [2007 & newer] w/ a 36mm hex molded into the oil filter cap.



**74.5MM OIL FILTER SOCKET** **#2175**

74.5mm, 14 flats. Applicable: **VW/AUDI** 1.8L turbo & 2.0L non-turbo engines.



**MAZDA OIL FILTER WRENCH** **#2176**

76mm, 14 Flats. Applicable: **MAZDA** 3 [2010–2012], 5 [2012-], CX-7 [2010–2012], Mazdaspeed 3 [2010–2012] & MX-5 Miata [2006–2012].



**OIL FILTER WRENCH** **#5040**

66.5mm, 14 Flats. Applicable: 2008 U.S. model **SMART** car.



**84MM OIL FILTER WRENCH** **#M 0284**

76mm, 12 Flutes. Applicable: vehicles w/ 3.0L [V6] CRD (Common Rail Diesel) engines including **DODGE** Sprinter [2007–2013], **JEEP** Cherokee [2007 & newer] & **MERCEDES** E320 [2007 & newer].



**OIL FILTER WRENCH** **#BM 1276**

3/8" Drive, 76mm, 12 Flutes. Fits [2007–2013] **BMW** motorcycles R1200GS/RT/ST/S/R. K 1600 GT & GTL, S 1000 RR, K 1200 S/R/GT [2005 & newer]. Fits BMW OEM Filter #11 42 7 673541. Fits Man Filter #MW 75.



**HYUNDAI/KIA OIL FILTER WRENCH** **#HY 8815**

88mm, 15 Flats, 22mm Hex. Applicable: **HYUNDAI & KIA** w/ a paper cartridge oil filter w/ an 88mm housing. Hyundai: Azera [2005–2009], Entourage [2006–2008], Santa Fe [2006–2007], Sonata [2005–2007] & Veracruz [2005–2007]; Kia Amanti [2007–2009], Sedona [2006–2009] & Sorento [2007–2009].



**#TOY 300**  
**TOYOTA OIL FILTER WRENCH SET**



Includes \*TOY 640, \*TOY 730 & \*M 0219. With the \*TOY 300 you have every [1980–2013] gas engine **TOYOTA/LEXUS** model covered.

**OIL FILTER WRENCH** **#JA 19015**

3/8" Drive, 90mm, 15 Flats. Applicable: [2010–newer] **JAGUAR** 5.0L [V8] engines in XJ, XJL, XK, XKR, XF, XFR & XKR; [2010–newer] **LAND ROVER** 5.0L [V8] engines in LR4, Ranger Rover & Range Rover Sport.



**74MM OIL FILTER WRENCH** **#M 0219**

74mm, 14 Flats. Applicable: **FORD/MAZDA** 2.3L, **MERCEDES** gas engines 112, 113, 272 & 273. **PORSCHE** [1999–2008]; **VW/AUDI** 2.0 turbo, 2.5L & TDI. **TOYOTA** Sienna, Solara & 4Runner [1985–2002].



**OIL FILTER WRENCH** **#5063**

63mm, 14 Flats. Applicable: **HONDA** [through 2013] (exc. S2000) & **NISSAN**. Also **KAWASAKI** filter #16097-0003 & Yamaha filter #5GH-13440-00. Also works on Powersports vehicles that utilize "HF303" oil filters: Honda, Polaris, Kawasaki & Yamaha. Applicable: Nissan [2002–2009] 350Z, [2009–2013] 370Z, [1997–2013] Altima, [2004–2013] Armada, [2009–2013] Cube, [1997–2013] Frontier, [2007–2013] GT-R, [2011–2013] Juke, [1994–2013] Maxima, [2002–2013] Murano, [1995–2013] Pathfinder, [2006–2013] Quest, [2007–2013] Rouge & Sentra, [2004–2013] Titan, [2006–2013] Versa, [2004–2013] X-trail (Canada), [2002–2013] Xterra; Infiniti [2004–2007] M35 & M45 w/ VQ35DE engine.



**HARLEY DAVIDSON OIL FILTER WRENCH** **#HD 1474**

74mm, 14 Flats. For all **HARLEY-DAVIDSON** motorcycles w/ a spin on oil filter. Machined opening for necessary clearance of crank sensor.



**73MM TOYOTA OIL FILTER WRENCH** **#TOY 730**

73mm, 14 Flats. Fits **TOYOTA** 4.0L & 4.7L [V8].





**\*ATF 1001 FORD  
FORD DRIVE LINE FILLER**

For filling **FORD** Explorer transmissions from the bottom of the vehicle. Set includes pump, 3 liter container, hose, shut-off valve & the \*ATF 101 (applicable to Ford w/ 1/8-27 NPT Plug) adapter.  
ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY

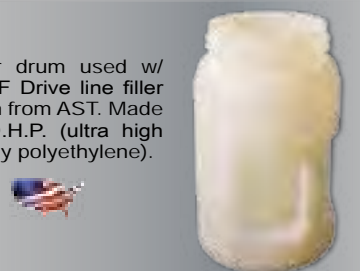
**BLUE STORAGE LID FOR ATF #ATF 100102**

Storage lid for use w/ all ATF Drive line filler containers. Made of U.D.H.P. (ultra high density polyethylene).



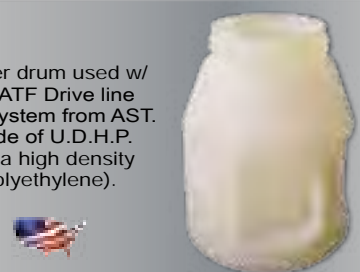
**3L DRUM FOR ATF SYSTEM #ATF 101003**

3 Liter drum used w/ the ATF Drive line filler system from AST. Made of U.D.H.P. (ultra high density polyethylene).



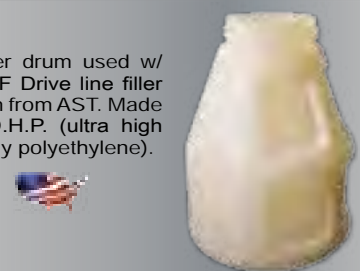
**5 LITER DRUM FOR ATF SYSTEM #ATF 101005**

5 Liter drum used w/ the ATF Drive line filler system from AST. Made of U.D.H.P. (ultra high density polyethylene).



**10L DRUM FOR ATF SYSTEM #ATF 101010**

10 Liter drum used w/ the ATF Drive line filler system from AST. Made of U.D.H.P. (ultra high density polyethylene).



**16MM 12-PT TP SOCKET #6300 X-16**

16mm, 12-point, 1/2" drive, 60mm long tamperproof socket for R & R of VW/Audi manual transmission drain plug & **PORSCHE** Cayenne, **AUDI** Q7 & **VW** Touareg brake caliper bolts. Also used on Mercedes diesel truck flywheel bolts.



COMPARABLE: VW/AUDI \*3357



**FORD ATF ADAPTER #ATF 101**



Used on **FORD** Explorer in conj. w/ the AST ATF Filler System. Does not include pump, container, hose, or shut-off valve.

FOR THE COMPLETE FORD SET, SEE TOOL \*ATF 1001 FORD

**UNIVERSAL ATF ADAPTER #ATF 102**



Does not include pump, container, hose, or shut-off valve.

FOR THE COMPLETE BASIC SET, SEE TOOL \*ATF 1002 BASIC OR \*ATF 1002-5 BASIC. USED IN CONJ. W/ THE ATF FILLER SYSTEM

**VW/AUDI ATF ADAPTER #ATF 103**



Used for filling **VW** Touareg trans. Does not include pump, container, hose, or shut-off valve.

FOR COMPLETE VW/AUDI KIT, SEE \*ATF 1033-5 VW

**VW/AUDI ATF ADAPTER #ATF 104**



Long angled adapter used in conj. w/ ATF Filler System. Does not include pump, container, hose, or shut-off valve.

COMPARABLE: ADAPTER INCLUDED IN THE VW FACTORY \*VAG1924. FOR THE COMPLETE VW/AUDI SET, SEE TOOL \*ATF 1033-5 VW

**VW/AUDI ATF ADAPTER #ATF 105**



(M10 x 1.0) adapter used on **VW/AUDI** & **MINI** Cooper w/ "AISIN" trans. Does not include pump, container, hose, or shut-off valve.

FOR COMPLETE VW/AUDI SET, SEE \*ATF 1033-5 VW. USED IN CONJ. W/ THE ATF FILLER SYSTEM. (WILL NOT THREAD INTO CVT TRANSMISSION).

**\*ATF 1300-5  
13-PC. DRIVELINE FILLER SYSTEM**



For filling fluids in transmission, differentials & transfer cases. Set includes pump, 5 liter container, hose, shut-off valve & these adapters: \*ATF 101 (Ford), \*ATF 102 (BMW, HONDA, NISSAN & many other universal applications), \*ATF 10H, \*ATF 103, \*ATF 16 DSG & \*ATF 17 CVT (VW/Audi), \*ATF 104 (VW/Audi & [1999–newer] Porsche), \*ATF 105 (Mini Cooper & VW/Audi), \*ATF 129 (Mercedes 722.9 transmissions), \*ATF 108V (Volvo), \*ATF 180 (Infiniti), \*ATF SU100 (universal applications) & \*ATFTOY118 (Toyota).

NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS

**BASIC DRIVE LINE FILLER #ATF 1002 BASIC**

For filling fluids in trans., differentials, transfer cases & many other universal filling tasks. Set includes pump, 3 liter container, hose, shut-off valve & \*ATF 102. Applicable: **BMW, HONDA, NISSAN** & many other **UNIVERSAL** applications.

OTHER ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS



\*ATF 1002 BASIC SHOWN HERE IN USE

**\*ATF 1002-5 BASIC  
5L BASIC DRIVE LINE FILLER**



For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Set includes pump, 5L container, hose, shut-off valve & \*ATF 102. Applicable: **BMW, Honda, Nissan** & many other universal applications.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS



**\*ATF 1008-5 EURO  
EURO DRIVE LINE FILLER**



8-piece drive line set used for filling fluids in transmission, differentials & transfer cases in various **AUDI, BMW, LAND ROVER, MERCEDES, PORSCHE, VW & VOLVO** models. \*ATF 1008-5 EURO set includes pump, 5 liter container, hose, shut-off valve & the following adapters: \*ATF 102, \*ATF 103, \*ATF 104, \*ATF 105, \*ATF 108V, \*ATF 129, \*ATF 16 DSG & \*ATF 17 CVT.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY

**\*ATF 1018 TOY  
TOYOTA DRIVE LINE FILLER**

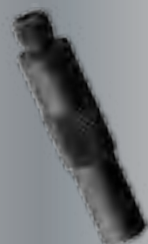


For filling fluids in **TOYOTA** & some **LEXUS** automatic transmissions using the supplied \*ATF1018 adapter. Set includes pump, 3 liter container, hose, shut-off valve & the \*ATF1018 adapter.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY

**VOLVO ATF ADAPTER #ATF 108V**

Adapter applicable to some 2007 & newer **VOLVO** using 5/16" x 24 threaded plug. Does not include pump, container, hose, or shut-off valve.



**HALDEX FILLING ADAPTER #ATF 10H**



Used to fill the Haldex differential on [2009–newer] CC, Passat & Tiguan w/ AWD 09M transmission.

COMPARABLE: VW \*VAS 6291/2. DOES NOT INCLUDE PUMP, CONTAINER, HOSE, OR SHUT-OFF VALVE.

**"DSG" ATF ADAPTER #ATF 16 DSG**

**VW/AUDI** DSG Drive Line Adapter used w/ the AST ATF Filler System. The attachment has a 24mm x 1.5 thread.



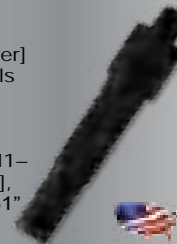
**VW/AUDI "CVT" ATF ADAPTER #ATF 17 CVT**

**VW/AUDI** CVT Drive Line Adapter used w/ the AST ATF Filler System. The attachment has a 22mm x 1.5 thread.



**INFINITI TRANSMISSION FILLING ADAPTER #ATF 180**

Applicable: [2008 & newer] **INFINITI** models w/ 7 speed automatic transmissions. EX35 [2008–2012], G25/27 [2009–2012], QX56 [2011–2012], FX [2009–2012], M "Y50" [2010] & M "Y51" [2011–2012].



**TOYOTA ATF ADAPTER #ATFTOY118**



**TOYOTA** adapter used in conj. w/ the ATF Filler System. Works w/ some **LEXUS** models. Individual adapter only. Does not include pump, container, hose, or shut-off valve. Applicable: [2005–2010] 4 Runner, FJ Cruiser, Sequoia, Tacoma & Tundra.

**MERCEDES "722.9" ATF FILLING ADAPTER #ATF 129**



12mm x 1.5 Mercedes-Benz adapter for 722.9 automatic transmission. Applicable: (164) GL 320 CDI 4MATIC, GL 450 4MATIC, GL 500 4MATIC, GL 550 4MATIC, ML 320 CDI 4MATIC, ML 350 4MATIC, ML 500 4MATIC, ML 550 4MATIC & ML 63 AMG. (171) SLK 280, SLK 350 & SLK 55 AMG. (203) C 230, C 280, C 350 & CLC 230. (204) C 230, C 230 4MATIC, C 280, C 280 4MATIC, C 300, C 300 4MATIC, C 350 & C 350 4MATIC. (209) CLK 350, CLK 350 Cabriolet, CLK 500, CLK 500 Cabriolet, CLK 55 AMG, CLK 550, CLK 550 Cabriolet & CLK 63 AMG Cabrio. (211) E 320 CDI, E 350, E 500, E 500 4MATIC, E 550 & E 63 AMG. (215) CL 500. (216) CL 500, CL 550 & CL 63 AMG. (219) CLS 500, CLS 550 & CLS 63 AMG. (220) S 430 & S 500. (221) S 450 4MATIC, S 500 L, S 550 L, S 550 L 4MATIC & S 63 L AMG. (230) SL 500 & SL 550. (251) R 320 CDI 4MATIC, R 350 L, R 350 L 4MATIC, R 500, R 500 L 4MATIC, R 550 L 4MATIC.

USED IN CONJ. W/ THE ATF FILLER SYSTEM. DOES NOT INCLUDE PUMP, CONTAINER, HOSE, OR SHUT-OFF VALVE



**\*ATF 1033-5 VW  
VW/AUDI DRIVE  
LINE FILLER**



5-piece set used for filling transmission fluids on most **VW/AUDI** models. Includes pump, 5 liter container, hose, shut-off valve & the following adapters: \*ATF 103, \*ATF 104, \*ATF 105, \*ATF 16 DSG & \*ATF 17 CVT.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY

**UNIVERSAL ATF ATTACHMENT #ATF SU100**

Used w/ our ATF Drive line fillers. Flexible to fit into hard to reach applications where there is at least a 10mm inside diameter opening. Applicable: **KIA** Forte [2013] & Sorento [2011 & newer] automatic transmissions. **MINI** Cooper w/ the "CVT" transmission; **SUBARU** newer automatic turbo models where the intercooler is blocking access to the transmission fill tube.



**\*ATF 1100-5  
9-Pc DRIVE LINE  
FILLER SYSTEM**



For filling fluids in transmission, differentials & transfer cases. Includes pump, 5 liter container, hose, shut-off valve & the following ATF adapters: \*ATF 101 (Ford); \*ATF 102 (BMW, Honda, Nissan & many universal applications); \*ATF 103, \*ATF 16 DSG & \*ATF 17 CVT (VW/Audi); \*ATF 104 (VW/Audi, 1999 & newer Porsche); \*ATF 105 (VW/Audi, Mini Cooper); \*ATF 129 (Mercedes 722.9 trans.); \*ATFTOY118 (Toyota). Individual manufacturers drive line filler sets are available as well as each of the individual adapters.

FOR THE SHOP THAT WOULD LIKE EVERY AST ADAPTER, ORDER \*ATF 1300-5. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS



#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: **BMW**, **DODGE** Sprinter 2.7L, **MERCEDES**, **VW/AUDI** (1.8 T, 1.9L TDI, 2.0 T, 2.8L, 3.0L, 3.2L, 3.6L & 4.2L) & **VOLVO** 2.5L engines. Also fits Teledyne motors 550 & 520 found in **BEECHCRAFT** & **CESSNA** aircraft.

#OFFM2012

FORD/MAZDA OIL FUNNEL



- > MADE OF DURABLE ABS PLASTIC
- > NO MORE MESS
- > THREADS & SEALS JUST LIKE THE OIL CAP

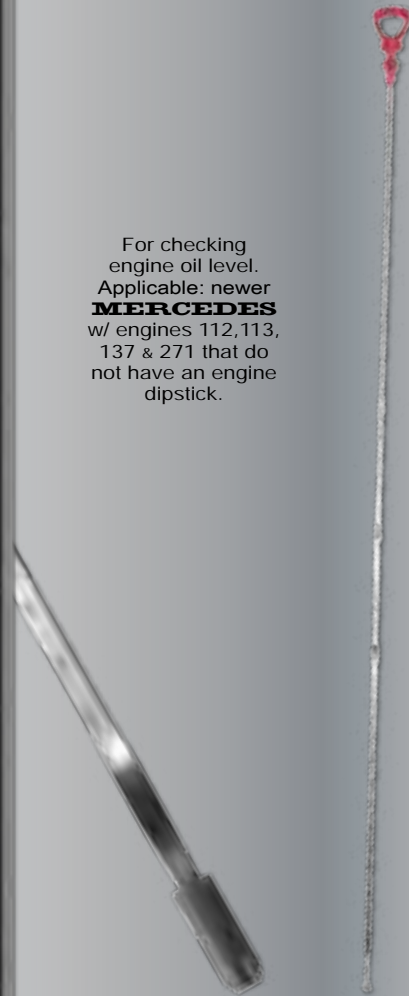
Used on newer **FORD & MAZDA** equipped w/ 4-cyl. engine. Made of Durable ABS Plastic. No more messes. Attaches directly to the engine oil filler neck/valve cover. Works on Ford Explorer 2.0L Eco-boost [2012-2013], Escape 2.5L [through 2012], Escape 2.0L Eco-Boost [2013], Focus 2.0L [2007-2013] & Fusion 2.0L Hybrid [2013]. **LAND ROVER** Range Rover Evoque 2.0T [2012-2013]. Mazda 3 [2006-2013], CX-5 [2013 & newer], MX-5 Miata [2006-2013] & Mazdaspeed 3 2.3L turbo [2010-2013].

MAY NOT FIT SOME APPLICATIONS WHERE THE FIRE WALL COWL DOESN'T PROVIDE CLEARANCE FOR ATTACHMENT OF FUNNEL



ENGINE OIL DIPSTICK

#M 0721



For checking engine oil level. Applicable: newer **MERCEDES** w/ engines 112, 113, 137 & 271 that do not have an engine dipstick.

#M 7226

722.6 TRANS DIPSTICK

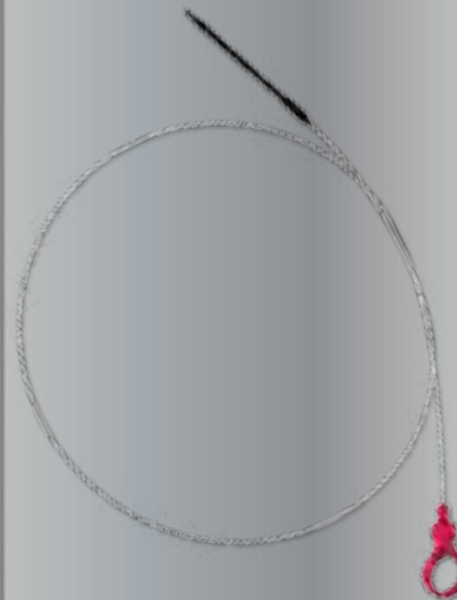


Used for checking ATF level. Applicable: **MERCEDES** models w/ 722.6 transmission; 1997-2005 & 2006, depending on vehicle equipment.

COMPARABLE: MERCEDES \*140 589 15 21 00

CHRYSLER TRANSMISSION DIPSTICK

#CRY933



Used on all vehicles w/ NAG1, 42RLE, CVT transmission & 62TE transaxle. Applicable: **CHRYSLER** 300C [2006-2013], Aspen [2008-2009], Charger [2006-2013], Pacifica [2007-2008], Sebring [2007-2013] & Town & Country [2008-2013]; **DODGE** Avenger [2007-2013], Caliber [2007-2012], Challenger [2008-2013], Dakota [2008-2011], Durango [2008-2013], Journey [2009-2013], Grand Caravan [2008-2013], Nitro [2007-2011], Magnum [2006-2013] & Ram [2007-2013]; **JEEP** Commander [2006-2010], Compass [2007-2013], Liberty [2006-2012], Grand Cherokee [2006-2013], Patriot [2007-2013], Wrangler [2006-2013] & Wrangler CKD [2011-2013].

THIS TOOL SUPERSEDES THE ORIGINAL \*9336 A & WILL WORK ON ALL PREVIOUS APPLICATIONS

SPRINTER TRANS. DIPSTICK

#SPR 886



**DODGE** Sprinter & **CHRYSLER** Crossfire transmission dipstick. Use in conj. w/ factory repair literature to get correct fluid level measurements.

COMPARABLE: CHRYSLER \*8863B



#AU 40178

AUDI ENGINE OIL DIPSTICK



Applicable: [2009-2013] **AUDI** A4, A5 & A6 w/ 2.0L TFSI, 3.2L FSI, 4.2L FSI & [2010-2013] S4 3.0L supercharged engine.

COMPARABLE: \*T 40178

HONDA/ACURA FUNNEL EXTENSION

#OFH33

Oil Funnel Extension for \*OFHON1033 Applicable: **HONDA** Pilot, Odyssey & Ridgeline. Also fits **ACURA** MDX & ZDX. Adds coverage & access where normal funnels do not fit.

USED IN CONJ. W/ \*OFHON1033 FUNNEL

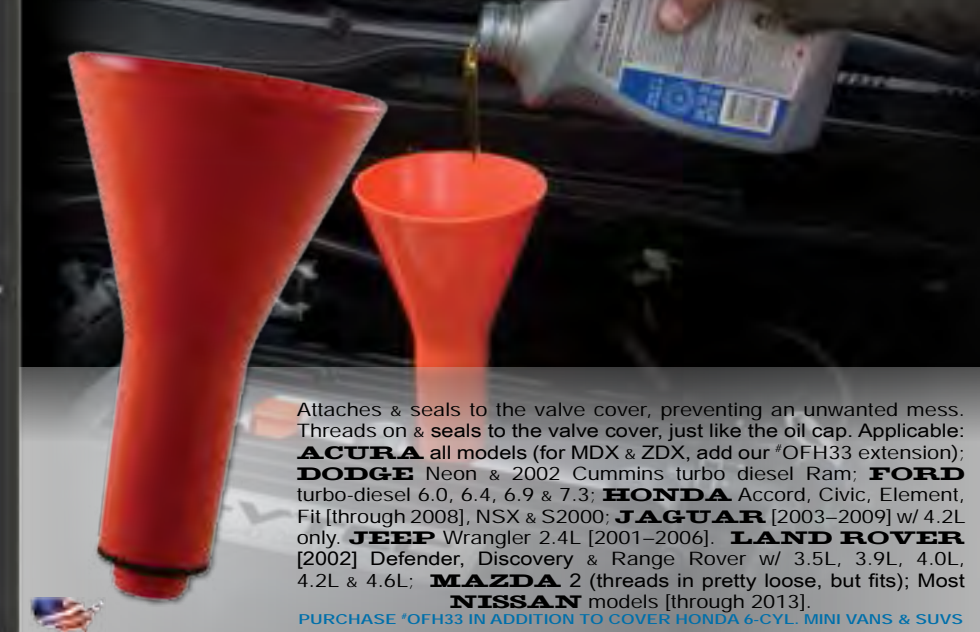


\*OFH33 SHOWN HERE IN USE



#OFHON1033

ASIAN/DOMESTIC OIL FUNNEL



Attaches & seals to the valve cover, preventing an unwanted mess. Threads on & seals to the valve cover, just like the oil cap. Applicable: **ACURA** all models (for MDX & ZDX, add our \*OFH33 extension); **DODGE** Neon & 2002 Cummins turbo diesel Ram; **FORD** turbo-diesel 6.0, 6.4, 6.9 & 7.3; **HONDA** Accord, Civic, Element, Fit [through 2008], NSX & S2000; **JAGUAR** [2003-2009] w/ 4.2L only. **JEEP** Wrangler 2.4L [2001-2006]. **LAND ROVER** [2002] Defender, Discovery & Range Rover w/ 3.5L, 3.9L, 4.0L, 4.2L & 4.6L; **MAZDA** 2 (threads in pretty loose, but fits); Most **NISSAN** models [through 2013].

PURCHASE \*OFH33 IN ADDITION TO COVER HONDA 6-CYL. MINI VANS & SUVs





- > MADE OF DURABLE ABS PLASTIC
- > NO MORE MESS
- > THREADS & SEALS JUST LIKE THE OIL CAP



**#OFHD35**  
OIL FUNNEL

Applicable: **HARLEY-DAVIDSON** Dyna & Touring models. [2007-2013] & **KIA** Forte [2013], Rio [2013-2014], Sorento [2011-newer], Soul [2013], & Sportage [2014]



**#OFSU1042**  
SUBARU OIL FUNNEL



Prevents unwanted mess. Threads on & seals to the filler neck cover, just like the oil cap. Fits all **SUBARU** models w/ threaded oil cap (exc. Tribeca). Also fits the new 2013 **SUBARU BRZ & SCION FR-S**.



**#OFGMRD08** FORD/GM OIL FUNNEL



Made of strong polycarbonate. No more messes. Attaches directly to the engine oil filler neck. Applicable: **CADILLAC** CTS, **CHEVY** Cobalt, Colorado, Duramax diesel trucks, Silverado, Tahoe, Trailblazer & vans; **FORD** Edge, Escape [V6], E-Series Vans, Explorer, Expedition, F-150, F-350 (2011 6.7L turbo diesel), Flex, Mustang, Ranger & Taurus SHO [2011]; **GMC** Envoy & Sierra; **HYUNDAI** Santa Fe [2001-2006] 4-cyl., Sonata [2002-2005], Tiburon [2006-newer] & Tucson [2004-newer]; **JAGUAR** S-Type/X-Type 3.0L (2000-2009) & 5.0L [V8] engines in XJ, XJL, XK, XKR, XF, XFR & XKR (2010-2013); **LAND ROVER** [2010-newer] 5.0L [V8] in LR4, Range Rover & Range Rover Sport; **MAZDA** CX-9 (3.7L); **MERCURY** Mountaineer; **PONTIAC** G6, Grand Prix; **SAAB** 9-3 [2003 & newer]; **SATURN** SL1.

FOR FORD POWER STROKE DIESEL ENGINES (6.9L, 7.3L, 6.0L & 6.4L) SEE \*OFHON1033. ADD \*OFAAGM FOR [2013-2014] GM SILVERADO & GMC SIERRA

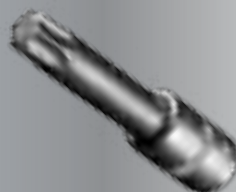
**#OFHD419** HARLEY-DAVIDSON OIL FUNNEL



For the "Push-in Style" oil fill caps for [1999-2006] **HARLEY-DAVIDSON** Touring models.

**SUBARU DRAIN PLUG SOCKET #SU 070**

1/2" Drive, T-70, 105mm length. For R & R of trans axle drain plug. Applicable: [2003 & newer] **SUBARU** w/ manual transmission.



**GM FUNNEL EXTENSION #OFAAGM**

Fits [2013-2014] **GM** Silverado & **GMC** Sierra trucks w/ 8-cyl. gas engines. Provides necessary clearance at brake master cylinder.

USED IN CONJ. W/ \*OFGMRD08



\*OFVW2013 SHOWN HERE IN USE

**VW/AUDI OIL FUNNEL #OFVW2013**



**VW/AUDI** engine oil funnel for [2014-newer] VW models w/ 2.0L Turbo engine.



**#OFTOY1001**  
TOYOTA OIL FUNNEL



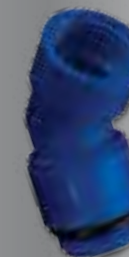
Specifically designed to attach to the 1/4-turn valve covers found on all **TOYOTA & LEXUS** w/ 3.0L & 3.3L [V6] engines. When adding oil to the engine, you don't have to worry about making a mess due to the internal baffle of the valve cover.

FOR TOYOTA, LEXUS & SCION W/ A THREADED STYLE OIL CAP SEE \*OFTOY1038

**TOYOTA FUNNEL EXTENSION #OFT38**

Applicable: **TOYOTA** Prius & Yaris. Adds coverage & access where normal funnels do not fit.

USED IN CONJ. W/ \*OFTOY1038 FUNNEL



\*OFT38 SHOWN HERE IN USE W/ \*OFTOY1038

**#OFTOY1038**  
TOYOTA OIL FUNNEL



Applicable: all **TOYOTA/LEXUS** models w/ a threaded oil cap; **LOTUS** Elise & Exige w/ **TOYOTA** 2ZZ-GE engines; **PONTIAC** Vibe; all **SCION** models w/ a threaded oil cap.

FOR PRIUS & YARIS, FUNNEL NEEDS TO BE USED IN CONJ. W/ \*OFT38 EXTENSION. FOR TOYOTA/LEXUS 1/4 TURN STYLE OIL CAPS SEE \*OFTOY1001

- > MADE OF DURABLE ABS PLASTIC
- > NO MORE MESS
- > THREADS & SEALS JUST LIKE THE OIL CAP



**#6506**  
**VW/AUDI AXLE NUT SET**



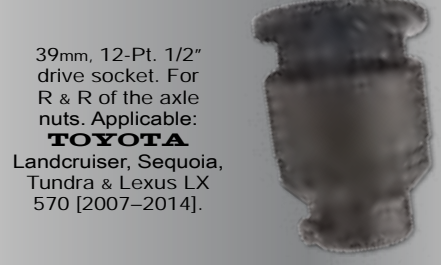
Includes: 14mm allen for [1996-2001] Audi A4 front & rear axle bolts (AWD) & VW Passat 17mm allen for [1998-2005] VW Passat, [1999-2009] Audi A4 front & rear axle bolts (AWD); & A6 front; 18mm 12 pt. [2006-2013] VW Jetta and Golf Rear Axle Bolts; 24mm 12 pt. socket used for front axle bolts on [2013-newer] Beetle, Golf, Jetta, Passat & [2009-2013] Tiguan; 30mm 12 point socket for front axle nuts on [1999-2005] VW Golf, Jetta, Cabrio, & Beetle; 32mm 12 point socket w/ 3/4" drive for front & rear axle nuts on VW Touareg.

**36MM, 12-PT. SOCKET #6500 X-36**



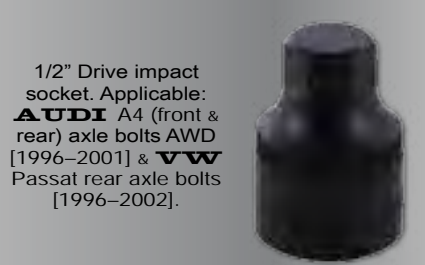
3/4" Drive socket. For R & R of axle nuts. Applicable: **BMW** E38, E39, E46, E53, X5 (front & rear), the new 5 Series E60 & E90 AWD 36mm (front & rear.)

**TOYOTA AXLE NUT SOCKET #6500 X-39**



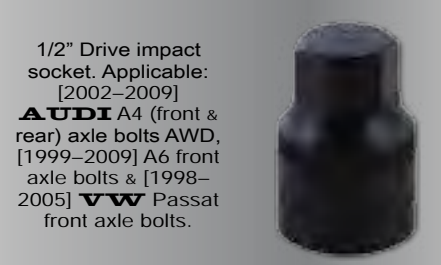
39mm, 12-Pt. 1/2" drive socket. For R & R of the axle nuts. Applicable: **TOYOTA** Landcruiser, Sequoia, Tundra & Lexus LX 570 [2007-2014].

**14MM ALLEN SOCKET #6500-14**



1/2" Drive impact socket. Applicable: **AUDI** A4 (front & rear) axle bolts AWD [1996-2001] & **VW** Passat rear axle bolts [1996-2002].

**17MM ALLEN SOCKET #6500-17**



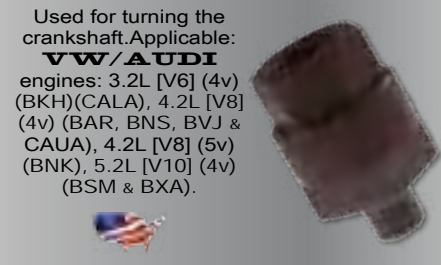
1/2" Drive impact socket. Applicable: [2002-2009] **AUDI** A4 (front & rear) axle bolts AWD, [1999-2009] A6 front axle bolts & [1998-2005] **VW** Passat front axle bolts.

**24MM, 12-PT. SOCKET #6500 X-24**



1/2" Drive. Applicable: [2009-2013] **VW** Tiguan, [2013] Golf, Passat, Beetle & Jetta

**CRANKSHAFT SOCKET #T 40058**



Used for turning the crankshaft. Applicable: **VW/AUDI** engines: 3.2L [V6] (4v) (BKH)(CALA), 4.2L [V8] (4v) (BAR, BNS, BVJ & CAUA), 4.2L [V8] (5v) (BNK), 5.2L [V10] (4v) (BSM & BXA).

**T-100 TORX SOCKET #6500 T-100**



3/4" Drive. Used to remove the plug for accessing the parking pawl detent on the 722.9 **MERCEDES** transmissions.

**T-80 TORX SOCKET #6500 T-80**



1/2" Drive. Applicable: **BMW** R & R of drivers side wiper arm on E31, E38 & E39 chassis & **LAMBORGHINI** wheel lug nuts/bolts on Gallardo models.

**18MM, 12-PT. SOCKET #6500 X-18**



1/2" Drive. Applicable: **VW** Jetta & Golf [2006-2013]. Used for R & R of rear axle bolt. **COMPARABLE TO VW/AUDI \*T 10162**

**30MM, 12-PT. SOCKET #6500 X-30**



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

**32MM, 12-PT. SOCKET #6500 X-32**



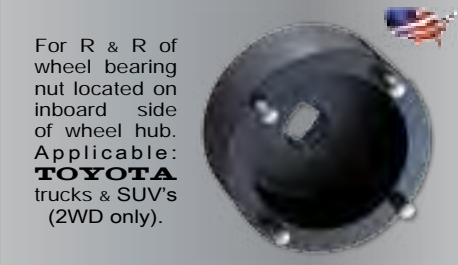
3/4" Drive impact socket for R & R of front & rear axle nuts. Applicable: **VW** Touareg 32mm axle nut.

**16MM 10-POINT SOCKET #HO10PT**



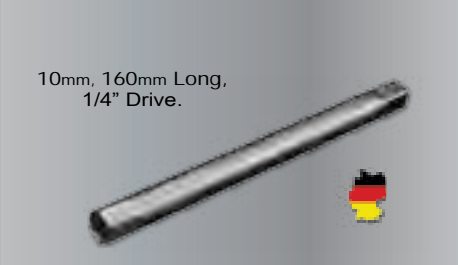
Applicable: [2001 & newer] **HONDA** Civic & Acura RSX rear lower control arms.

**WHEEL BEARING NUT SOCKET #TOY 185**



For R & R of wheel bearing nut located on inboard side of wheel hub. Applicable: **TOYOTA** trucks & SUV's (2WD only).

**MERCEDES REAR BUMPER SOCKET #H 2797-1**



10mm, 160mm Long, 1/4" Drive.

**7MM ALLEN SOCKET #BMW 377**



3/8" Drive Allen socket. Applicable: **BMW** E36, E46, E39 & E31 models, & **MERCEDES** S-Class (221). The short length of this socket (31mm) allows for easy removal of the rear brake caliper slide bolts.

**MINI REAR CALIPER BRAKE PISTON ADAPTER #MC 560**



Rear caliper brake piston tool. Used w/ a universal 3/8" brake caliper piston tool. Applicable: [2007-newer] **MINI** Cooper models (exc. "Countryman"). **FOR [2002-2006] MINI COOPER MODELS, SEE OUR \*V 450. COMPARABLE: \*346309.**



**#M 820**  
**GLOW PLUG SOCKET**

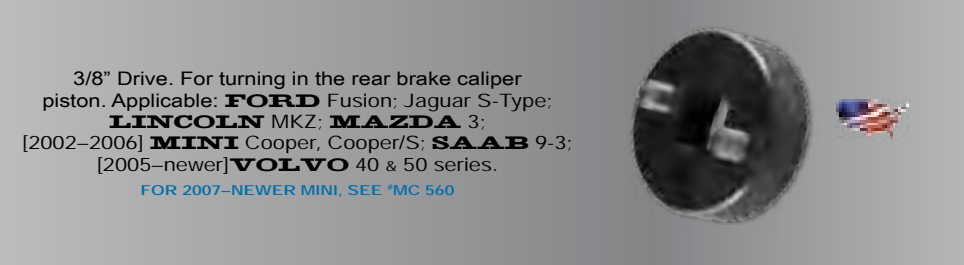
3/8" Drive, 8mm glow plug socket for **MERCEDES & SPRINTER.**



**#M 1020**  
**GLOW PLUG SOCKET**

3/8" Drive, 10mm glow plug socket for **MERCEDES & SPRINTER.**

**BRAKE CALIPER PISTON ADAPTER #V 450**



3/8" Drive. For turning in the rear brake caliper piston. Applicable: **FORD** Fusion; Jaguar S-Type; **LINCOLN** MKZ; **MAZDA** 3; [2002-2006] **MINI** Cooper, Cooper/S; **SAAB** 9-3; [2005-newer] **VOLVO** 40 & 50 series. **FOR 2007-NEWER MINI, SEE \*MC 560**



**BMW HEADBOLT SOCKET** \*BMW 012

BMW E12 Headbolt Socket.



**LUGNUT SOCKET** \*M 17 WLS

17mm Star-shaped lug nut socket. Applicable to **MAYBACH**, 221 S-Class & newer CL-Class.



**BMW FLYWHEEL SOCKET TOOL** \*BMW 060

For R & R of flywheel bolts. Applicable: E34 & E39 [V8] 4.0L, 4.4L & 5.0L w/ standard transmission. T-60 Torx.

COMPARABLE: BMW \*114180. 1/2" DRIVE, 140MM LENGTH.



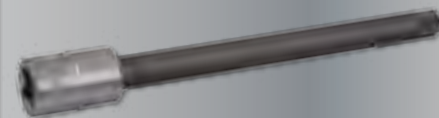
**BMW HEADBOLT SOCKET** \*BMW 11850



T-50, 165mm long. Applicable: **BMW** N51/N52 non-turbo & N54/N55 turbo engines.

COMPARABLE: BMW \*114420. USED IN CONJ. W/ BMW \*11860.

**BMW HEADBOLT SOCKET** \*BMW 11860



T-60, 195mm Long. Applicable: **BMW** N51/N52 non-turbo & N54/N55 turbo engines.

USED IN CONJ. W/ \*BMW 11850. COMPARABLE: BMW \*118580

**#9 POLY-DRIVE SOCKET** \*H 2579-9



1/2" Drive. Applicable: most [1998-later] **VW/AUDI** engines w/ after market headbolts.

**MULTI-TOOTHED ALTERNATOR PULLEY SOCKET** \*H 2592

R & R of free-wheel pulley on alternator. Applicable **MERCEDES** engines: 642.992, 642.992, 646.951, 646.961, 646.962, 646.963, 647.961 & 647.981; **VOLVO** C70 [2006-newer], C70 Conv [through 2005], C70 Coupe [through 2002], S40 [through 2004], S40 [2004-newer], S60 [through 2009], S60 [2011-newer], S70, S80 [through 2006], S80 [2007-newer], S80L, V40 [through 2004], V40 [2013-newer], V40 Cross Country, V50, V60, V70 [through 2000], V70 [2000-2008], V70 [2008-newer], V70 XC [through 2000], V70 XC [2001-newer] / XC70 [through 2007], XC60, XC70 [2008-newer], XC90 & C30.

USED IN CONJ. W/ \*S 3054 X-10 OR \*S 1054TX T-50 SOCKETS. COMPARABLE: VW \*3400. VOLVO \*9995760. MERCEDES \*602 589 00 10 00



**DELIVERY VALVE SOCKET** \*H 4556

For the R & R of the delivery valve on **MERCEDES** Diesel injection pumps. Applicable: Diesel engines 601, 602, 603, 605, 606, 615, 616, & 617 w/ M/RSF & ERE injection pumps. 1/2" Drive Socket & 33 Point socket.

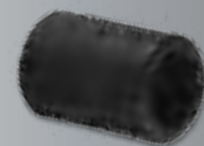


**MOTOR MOUNT WRENCH** \*M 1620

Used to loosen bolt on the motor mount. Applicable: **MERCEDES** [1998-2003] E 430, [2006-2011] E 350, [2003-2008] E 550, [2007-2008] S 550, [2003-2008] SL 550 & [2006-2008] CL 550.



**MITSUBISHI FLYWHEEL BOLT SOCKET** \*MITSU10PT



12mm, 10-Pt. socket used for flywheel bolts on **MITSUBISHI** cars.

**HEADBOLT SOCKET** \*TOY 105



Headbolt socket for newer **TOYOTA** Yaris, Prius that use a special #8 bi-hexagon socket. 1/2" drive, 100mm long.

**CAMSHAFT ADJUSTER SOCKET** \*VW 5220

#10 Polydrive, 1/2" drive, 53mm long socket used for camshaft adjuster bolt on **VW/AUDI** 2.0L turbo (BPG) (BPY) engines.

COMPARABLE: \*T40080.



**#2136 36MM OIL FILTER SOCKET**



36mm, 6 Flats. Applicable: **AUDI** Q7 3.6L; **BMW** M52, M60, M62, M70 & M73 engines; [2004] **FORD** F-250 & F-350 6.0L turbo diesel; **MERCEDES** diesel engines OM604, 605 & 606; [2002-2006] **MINI** Cooper/S; [1993] **VW** Corrado VR6, Eurovan VR6, [2004] Golf R32 3.2L VR6, [2006] Jetta 2.0L turbo, Jetta 2.8L VR6, Passat 2.8L VR6 & Touareg; [2007-newer] **VOLVO** w/ 36mm hex molded into the oil filter cap.

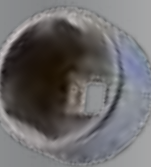
**24MM OIL FILTER SOCKET** \*2124

24mm, 6 Flats. For the R & R of the oil filter housing cap. Applicable: [2004-newer] **BMW** 5 Series, 7 Series & X5 w/ [V8] motor (N62); [2008] **SATURN** Astra w/ 1.8L eotec; all [2011-newer] **CHRYSLER** w/ 3.6L [V6], 200, 300 & T/C; **DODGE** Avenger, Challenger, Charger, Durango, Grand Caravan & Journey; **JEEP** Grand Cherokee.



**27MM OIL FILTER SOCKET** \*2127

27mm, 6 Flats. Applicable: [2012] **FIAT** 500; [2009-2012] **HYUNDAI** Azera, Equus [2011-newer], [2008-newer] Genesis [V6/V8], [2009] Santa Fe 3.3L, [2009] Sonata 3.3L & [2007-2013] Veracruz; [2007-2009] **KIA** Amanti, [2009-2012] Borrego, [2007-2013] Sedona & [2007-2009] Sorento; [2002-2007] Mercedes C 230 1.8L; & [2007-2012] **MINI** Cooper/S.



**32MM OIL FILTER SOCKET** \*2132

32mm, 6 Flats. 3/8" Drive. Applicable: [2007] **AUDI** S6 5.2L, Q7 4.2L; [2009-2011] **BMW** 335D, [2009-2010] X5 35d & [2011-2013] X5 xDrive 35d; [2003] **SAAB** 9-3; [2005] **SATURN** Ion; [2011] **VW** Golf 2.0L TDI.



**SUBARU DRAIN PLUG SOCKET** \*SU 070

1/2" Drive, T-70, 105mm length. For R & R of trans axle drain plug. Applicable: [2003-newer] **SUBARU** w/ manual transmission.



**MERCEDES HEADBOLT SOCKET SLG-T55** \*H 992



T-55 Torx socket, 140mm in length, 1/2" drive & extra long for easy access. Applicable: **MERCEDES** models w/ motors M112 & M113. Applicable: headbolts on 2.4L New World Engine in [2007] Dodge Caliber.

\*T 40028 SHOWN HERE IN USE

\*BMW 432 SHOWN HERE IN USE

\*SP1412 SHOWN HERE IN USE

DUAL-SIDED FOR MULTIPLE APPLICATIONS

**\*SP1412 SPARK PLUG SOCKET**

14mm, 12-Point spark plug socket w/ 3/8" drive. Applicable: [2007-newer] **BMW** 135, 335, 535 & X6 w/ 3.0L twin-turbo motors; [2007-newer] turbocharged **MINI** Cooper; [2010] **FORD** 4.6L & 5.4L [V8] & newer **NISSAN** models w/ 1.8L; **SUBARU** [2013] FR-S.

COMPARABLE: BMW \*121220. SPARK PLUG SOCKET IS SLENDER IN DESIGN TO FIT APPLICATION



**ASSEMBLY TOOL** \*VW 10352

Used for R & R of the 4/3 way central valve for camshaft adjustment. Applicable: **VW/AUDI** 2.0L turbo engines.

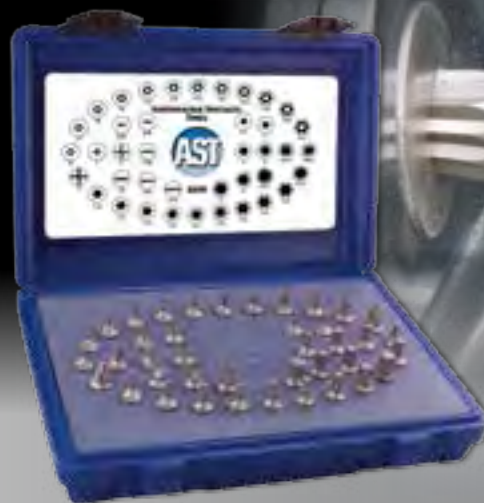
COMPARABLE: \*T10352 & \*T10352/1 TOOLS, BUT ONE \*VW 10352 DOES THE JOB OF BOTH FACTORY TOOLS







**#3000**  
**40-PIECE SOCKET SET**



1/4" Socket set contains: T6-T45 6-Point Tamperproof® Torx; T10-T50 6-Point standard Torx; 4mm, 5mm, 6mm & 8mm 12-Point; 2.5, 3, 4, 5, 6 & 8 Allen drivers; 5/32"-5/16" Straight Blade drivers; #1, #2 & #3 Phillips drivers.

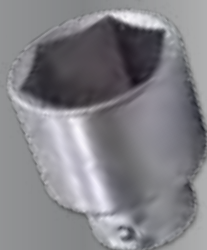
**14MM, 12-PT. SOCKET #S 54 X-14**

14mm, 12-point socket, 64mm length, 1/2" drive. Ideal for use on rear brake caliper bolts on [2006-newer] **VW** Jetta & Passat.

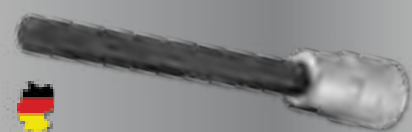


**46MM SOCKET #S 55-46**

46mm thin-wall socket 3/4" drive. Applicable: **BMW** R & R of front wheel bearing retainer nut on E24, E28, E32 & E34 chassis.



**10MM ALLEN SOCKET #S 1054-10**



1/2" Drive. For the R & R of the cyl. headbolts. Applicable: **MERCEDES**, **NISSAN**, **DATSUN**, **VW** & **AUDI**.

**T-50 TORX SOCKET #S 1054TX T-50**



For the R & R of the fly wheel bolts on **BMW** E34 3.0L [V8] engines. 1/2" drive, 140mm length. Also used in conj. w/ the #H 2592 for the Alternator pulleys on various **MERCEDES** models.  
COMPARABLE: BMW #113380.

**8MM ALLEN SOCKET #S 3049-8**

3/8" drive. For R & R of viscous fan coupling w/ the radiator in place. Applicable: M 103, 104, 119, 120, OM 602, 603, 605 & 606.



**10MM, 12-PT. SOCKET #S 3054 X-10**



1/2" Drive, 140mm long. For R & R of cyl. headbolts. Applicable: [2003-2007] **PONTIAC** Vibe, [2003-2007] **TOYOTA** Matrix w/ 1.8 L I-4. Also used on **VW/AUDI** headbolts that are 10mm, 12-point.

MOST 1998-NEWER VW/AUDI REQUIRE THE #3462 HEADBOLT SOCKET. COMPARABLE: VW #3410 & MB #601 589 00 10 00.

**4-Pc. SOCKET BIT SET #3000-4 K**



Allen socket bit set includes: 4mm, 5mm, 6mm & 8mm 1/4" drive sockets.

**6-PIECE SOCKET BIT SET #3000-6 K**



Allen socket bit set includes: 2.5mm, 3mm, 4mm, 5mm, 6mm & 8mm 1/4" drive sockets.

**4-Pc, 12-PT, 1/4" DRIVE SET #3004X**



Includes: 8mm, 6mm, 5mm & 4mm sockets. 1-Piece steel construction.

**12MM, 12-PT. SOCKET #S 3054 X-12**



1/2" Drive, 140mm Long. Applicable: **MERCEDES** headbolts on OM 615, 616, 617, M 102 & M 103; R & R of cyl. headbolts on [2003] **TOYOTA** 4Runner w/ [V6], all 2ZZ engines [4-cyl, (4v) w/ VVT] including [2000-2001] Celica & [2001-2006] Highlander w/ 2AZ-FE engines; older **VW/AUDI** w/ 12mm 12-Point headbolts.

COMPARABLE TO MB #617 589 00 10 00

**12MM, 12-PT. SOCKET BIT #6300 X-12**

For the R & R of axle shaft bolts on newer **VW** Jetta (gas) & rear toe adjustment on [1999-newer] **AUDI** A6.



**14MM, 12-PT. SOCKET BIT #6300 X-14**

For R & R of **AUDI** TT differential bracket & for bell housing bolts w/ tight clearance on various **VW** models.



**16MM 12-PT TP SOCKET #6300 X-16**

1/2" Drive, 60mm long tamperproof socket for R & R of manual trans. drain plug & **PORSCHE** Cayenne, Audi Q7 & **VW** Touareg brake caliper bolts. Also used on **MERCEDES** Diesel Truck flywheel bolts.  
COMPARABLE: VW/AUDI #3357.



**10MM, 12-PT. LONG SOCKET #6300 XL-10**



3/8" Drive, 90mm long socket for R & R of axle shaft bolts on **VW** Passat & Golf.

**14MM, 12-PT. LONG SOCKET #6300 XL-14**



1/2" Drive, 140mm long socket. Applicable: R & R of late model Eurovan axle shafts & ball joints; Touareg inner cv bolts.



**#6300**  
**VW/AUDI**  
**12-POINT SOCKET**  
**BIT SET**

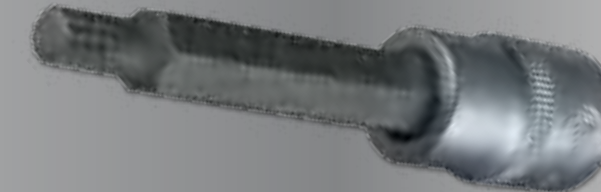


Set includes: #6300 XL-14 (Used for R & R of late model Eurovan axle shafts & ball joints), #6300 XL-8 (Used for R & R of axle shaft bolts on VW Beetle, Jetta TDI & older **VW/AUDI** models), #6300 XL-10 (Used for R & R of axle shaft bolts on [1999-2005] VW Passat & Golf), #6300 X-16 (Used for R & R of manual trans. drain plug & VW Touareg/**PORSCHE** Cayenne brake caliper bolts), #6300 X-12 (Used for R & R of axle shaft bolts on [1999-2005] VW Jetta (gas) & rear toe adjustment on [1999-later] Audi A6), #6300 X-14 (Used for R & R of Audi TT differential bracket & for bell housing bolts w/ tight clearance on various VW models) & #3424 (Used for assisting R & R of strut housing on newer VW/Audi TT.)



**8MM, 12-POINT LONG SOCKET #6300 XL-8**

3/8" Drive, 90mm long socket for R & R of axle shaft bolts on VW Beetle, Jetta TDI & older **VW/AUDI** models.



**10MM ALLEN SOCKET #H 985-10**

10mm Allen Socket, 1/2" Drive.



**12MM ALLEN SOCKET #H 985-12**

12mm Allen Socket, 1/2" Drive.



**19MM ALLEN SOCKET #H 985-19**

19mm Allen Socket, 1/2" Drive.



**E24 FEMALE IMPACT SOCKET #M OE24**

Applicable: front axle nut on **MERCEDES** 4matic models; new C-Class (204) new E-class (212) & new S-Class (221).





**\*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** Sprinter 2.7L & 3.0L [V6] CRD.

**\*FZ 55** DODGE SPRINTER TANK ADAPTER

Applicable: 2007-2013 **DODGE** Sprinter Van. Female 46 x 2.5mm buttress threads.



**\*FZ 55** SHOWN HERE IN USE



**\*SPR 886** SPRINTER TRANS. DIPSTICK



**DODGE** Sprinter transmission dipstick. Use in conj. w/ factory repair literature to get correct fluid level measurements.

COMPARABLE: CHRYSLER \*8863B

**TANK ADAPTER** **\*FZ 22**

For pressurizing cooling system. Applicable: **VOLVO** trucks w/ M48x3mm threads on filler neck & also fits [2007-2008] **KENWORTH** trucks.



**TANK ADAPTER** **\*FZ 25**

For pressurizing cooling system. Applicable: trucks w/ M47x3mm threads on the filler neck.



**TANK ADAPTER** **\*FZ 32 A**

For pressurizing cooling system. M52 x 2.5mm buttress threads. Fits some Freightliner & International trucks.



**TANK ADAPTER** **\*FZ 35 A**

For pressurizing cooling system. Fits some Freightliner & International trucks.



**CAP ADAPTER** **\*FZ 36**

For testing pressure relief valve in cap. Fits some Freightliner & International trucks.



**MERCEDES DELIVERY VALVE SOCKET** **\*H 4556**

For the R & R of the delivery valve on **MERCEDES** diesel injection pumps. Applicable: diesel engines 601, 602, 603, 605, 606, 615, 616 & 617 w/ M/RSF & ERE injection pumps. 1/2" Drive, 33-Point Socket.



**GLOW PLUG SOCKET** **\*M 820**



3/8" drive, 8mm glow plug socket. Applicable: **MERCEDES** & Sprinter.

**GLOW PLUG SOCKET** **\*M 1020**



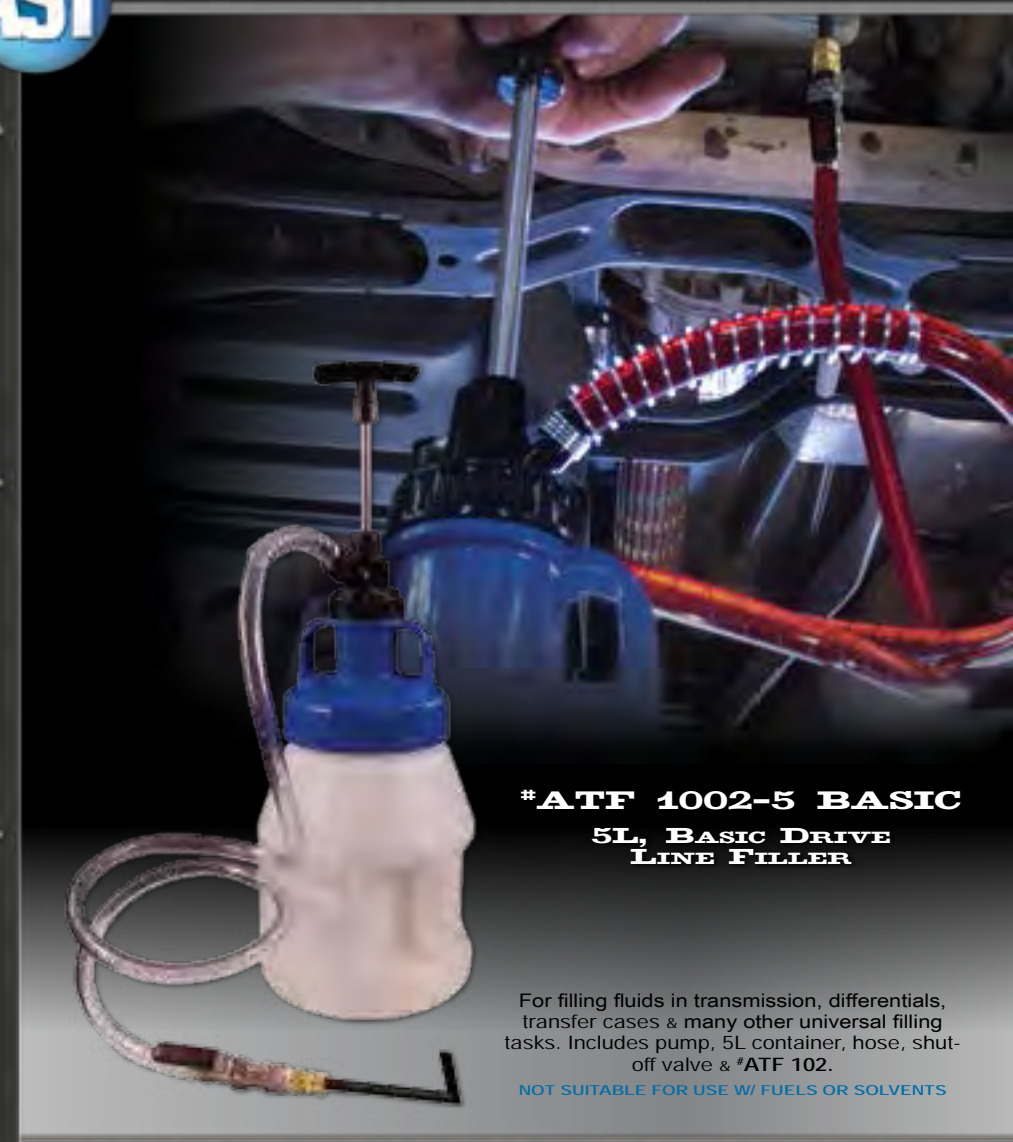
3/8" Drive, 10mm glow plug socket. Applicable: **SPRINTER**.

GLOW PLUG SOCKET SHOWN HERE IN USE



**16MM 12-PT. TAMPERPROOF SOCKET** **\*6300 X-16**

Used for **MERCEDES** diesel truck flywheel bolts. Also available in our \*6300 set.



**\*ATF 1002-5 BASIC**  
5L, BASIC DRIVE LINE FILLER

For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Includes pump, 5L container, hose, shut-off valve & \*ATF 102.

NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS

**SPRINTER GLOW PLUG PLIERS** **\*SPR 0558**

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



**84MM OIL FILTER WRENCH** **\*M 0284**

84mm oil filter wrench w/ 14 flats, 22mm hex. Applicable: **DODGE** Sprinter w/ 3.0L [V6] CRD engine [2007-2013]



**19MM FUEL LINE WRENCH** **\*H 4550-2**



Applicable: 16 & 20 Foot **MERCEDES** diesel trucks. Fits lines at delivery pump on Cummins turbo diesel 5.2L.



**#FZ 580**  
COOLING SYSTEM  
ADAPTER SET

Simply thread on the taller or shorter ring to accommodate a shallow or deep neck. Fits both deep & shallow radiator necks.



Pg#72  
TECH  
TIP

**TANK ADAPTER #FZ 128**

For pressurizing cooling system. Applicable: [1984-2011] **SUBARU** 4-cyl. models.



**TANK ADAPTER #FZ 138**

For pressurizing cooling system. Applicable: [2001-2011] **SUBARU** 6-cyl. models.



**#SU 7250 CRANK PULLEY HOLDER FOR SUBARU**



Used to hold the crankshaft on 2.5L (non-turbo) DOHC. On 2.5L engines, tool works on models w/ crank pulley Subaru part #12305AA251. If your car is equipped w/ pulley #12305AA242, please see factory tool #SU499977400.

COMPARABLE: SUBARU #499977100.



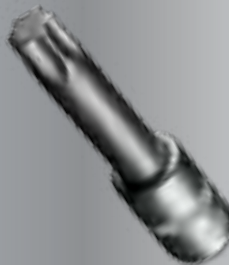
**UNIVERSAL ATF ATTACHMENT #ATF SU100**

Used w/ our ATF drive line fillers. Flexible to fit into hard to reach applications where there is at least a 10mm inside diameter opening. Applicable: newer **SUBARU** automatic turbo models where the intercooler is blocking access to transmission fill tube.



**SUBARU DRAIN PLUG SOCKET #SU 070**

1/2" Drive, T-70, 105mm length. For R & R of trans axle drain plug. Applicable: [2003-newer] **SUBARU** w/ manual transmission.



**SUBARU CAMSHAFT PULLEY HOLDER #SU 200T**



Used to hold the camshaft pulley on [2002-2005] Impreza WRX w/ 2.0 turbo.

WILL NOT FIT THE 2005 2.0 TURBO w/ VARIABLE CAM TIMING. COMPARABLE: FACTORY #499207400 & #499207400-A. SOME 2.5L TURBO REQUIRE BOTH THE #SU 3625 & #SU 200T-LOOK CAREFULLY AT CAM GEAR PULLEYS.

**SUBARU OIL FILTER WRENCH #SU 6514**

65mm w/ 14 flats. Used on new **SUBARU** factory oil filter #15208AA12A.



**#ATF 1002 BASIC BASIC DRIVE LINE FILLER**



For filling fluids in transmission, differentials, transfer cases & many other universal filling tasks. Includes pump, 3 liter container, hose, shut-off valve & the #ATF 102.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY. NOT SUITABLE FOR USE W/ FUELS OR SOLVENTS.

**SUBARU FUEL LINE DISCONNECT TOOL #8028**



Applicable: [2004-newer] 2.0L/2.5L turbo engines (exc. 2006 WRX/STI) as well as the 2.5L naturally aspirated engines.

COMPARABLE: SUBARU #18371AA000 & #42099AE00.



#8028 SHOWN HERE IN USE

**SUBARU CAM SPROCKET HOLDER #SU 3625**



Used to hold the camshaft sprockets on [2005-newer] **SUBARU** w/ the 2.5L turbo & 3.6L 6-cyl. engines. Holding fixture made in USA.

COMPARABLE: SUBARU #499977500. SOME 2.5L TURBO ENGINES REQUIRE THE USE OF #SU 200T AS WELL.

**OIL FILTER WRENCH #SU 8015**

80mm, 15 Flats. Applicable: **SUBARU** all vehicles w/ 6-cyl. engine using factory oil filter #15208AA031 & [2013-newer] BRZ.

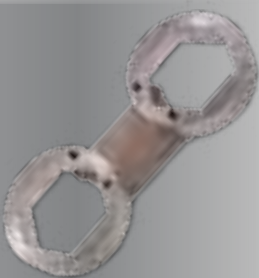


#SU 250 SHOWN HERE IN USE

**#SU 250 SUBARU 2.5L CAMSHAFT GEAR HOLDER**

Camshaft gear holding tool is only used for holding the pulley while breaking the camshaft gear nut loose. Constructed from lightweight aluminum. Applicable: 2.5L DOHC non-turbo engines.

COMPARABLE: SUBARU #499207300. THIS IS NOT USED FOR SETTING THE TIMING



**#OFSU1042 SUBARU OIL FUNNEL**



Prevents unwanted mess. Threads on & seals to the filler neck cover, just like the oil cap. Applicable: all **SUBARU** models w/ threaded oil cap (exc. Tribeca) & the new 2013 Subaru BRZ.



**#OFTOY1038**  
**TOYOTA OIL FUNNEL**



Applicable: all **TOYOTA/LEXUS** w/ threaded oil cap, **LOTUS** Elise & Exige w/ Toyota 2ZZ-GE engines; **PONTIAC** Vibe; all **SCION** w/ threaded oil cap; all Toyota w/ threaded oil cap.  
FOR TOYOTA & LEXUS 1/4 TURN STYLE OIL CAPS SEE #OFTOY1001. FOR PRIUS & YARIS, FUNNEL NEEDS TO BE USED IN CONJ. OUR #OFT38 EXTENSION

**#OFT38** **FUNNEL EXTENSION**

Adds coverage & access where normal funnels do not fit. Applicable: **TOYOTA** Prius & Yaris.  
ONLY USED IN CONJ. W/ #OFTOY1038 FUNNEL



**#OFTOY1001**  
**TOYOTA OIL FUNNEL**



Specifically designed to attach to the 1/4-turn valve covers found on all **TOYOTA & LEXUS** w/ 3.0L & 3.3L [V6]. 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.  
FOR TOYOTA/LEXUS/SCION MODELS W/ THREADED OIL CAP SEE #OFTOY1038



**30MM DEEP SOCKET** **#100-30 A**

1/2" Drive, thin-walled, 85mm long, 12-point socket. Applicable: **TOYOTA** models w/ 30mm, 12-Pt. axle nuts.



**TOYOTA AXLE NUT SOCKET** **#6500 X-39**

39mm 12-point 1/2" drive socket. For R & R of the axle nuts. Applicable: [2007-2014] **TOYOTA** Landcruiser, Sequoia, Tundra & Lexus LX 570.



**27MM CROWFOOT SOCKET** **#S 440-27**

27mm, 3/8" Drive 12-pt. Crow-Ring. Used for R & R of 4WD switch on transfer case or transmission. Applicable: [1996-2002] **TOYOTA** Tacoma & 4Runner.



#S 440-27 SHOWN HERE IN USE



**WHEEL BEARING NUT SOCKET** **#TOY 185**

For R & R of wheel bearing nut located on inboard side of wheel hub. Applicable: newer **TOYOTA** trucks & SUV's (2wd only).



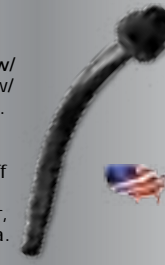
**#ATF 1018 TOY**  
**TOYOTA DRIVE LINE FILLER**



5L & 10L Containers also available. Includes quick attachment adapter #ATFTOY118. Pump dispenses efficiently. Filler can handle 90 weight oil. On/off ball valve w/ safety catch. Container made of UHDP (Ultra High Density Polyethylene). Applicable: [2005-2010] 4Runner, FJ cruiser, Sequoia, Tacoma & Tundra.

**TOYOTA ATF ADAPTER** **#ATFTOY118**

**TOYOTA** drive line filler adapter used in conj. w/ ATF Filler System. Works w/ some **LEXUS** models. Individual adapter only. Does not include pump, container, hose, or shut-off valve. Applicable: [2005-2010] 4Runner, FJ Cruiser, Sequoia, Tacoma & Tundra.



**74MM OIL FILTER WRENCH** **#M 0219**



74mm, 14 Flats Uses a 22mm socket. Applicable: **TOYOTA** [1995-2004] Avalon, [1988-2006] Camry 2.5L & 3.0L, [2001-2008] Highlander [V6], [1998-2007] Sienna 3.0L & 3.3L, [1993-1998] T100, [1995-2012] Tacoma, [1985-2002] 4Runner & [2000-2004] Tundra 3.4L.

**73MM TOYOTA OIL FILTER WRENCH** **#TOY 730**



73mm, 14 Flats. Applicable: **TOYOTA** [2007-2009] FJ Cruiser 4.0L, [1975-2008] Land Cruiser, [2001-2009] Sequoia 4.7L, [2005-2013] Tacoma 4.0L, [2003-2009] 4Runner & [2000-2012] Tundra 4.0L & 4.7L; **LEXUS** [2002-2010] Sc 430, [2004-2006] ES 330, [2001-2004] GS 430, [2004-2009] GX 470, [2001-2005] IS 300, [2001-2006] LS 430, [1998-2007] LX 470, [1999-2003] RX 330, [2004-2006] RX 330 & [2006-2008] RX 400h.

**TOYOTA OIL FILTER WRENCH**

**#TOY 640**

64mm, 14 Flats. Applicable: all models through 2013 w/ paper cartridge-style filter & an aluminum or plastic filter housing cover; **TOYOTA** [2005-2012] Avalon, [1983-2012] Camry 4-cyl, [2007-2012] [V6] : [1986-2005] Celica, [1983-2012] Corolla, [2000-2005] Echo, [2010-2012] 4Runner 4.0L, [2001-2012] Highlander 4-cyl, [2008-2012] [V6], [2003-2012] Matrix, [1985-2005] MR2, [2001-2012] Prius, [1996-2012] RAV4, [2009-2012] Sequoia, [2007-2012] Sienna, [1999-2001] Solara, [1980-1998] Tercel, [2007-2012] Tundra, [2009-2012] Venza & [2006-2012] Yaris; **SCION** [2005-2012] tC, [2004-2006] xA, [2004-2012] xB & [2008-2012] xD; **LEXUS** [2011-2012] CT 200h, [2007-2012] ES 350, [2007-2011] GS 350, [2007-2011] GS 450h, [2008-2011] GS 460, [2010-2012] GX 460, [2010-2012] HS 250h, [2006-2012] IS 250, [2010-2012] IS 250C, [2006-2012] IS 350, [2010-2012] IS 350C, [2008-2012] IS F, [2007-2012] LS 460, [2008-2012] LS 600h, [2008-2011] LX 570, [2007-2012] RX 350 & [2010-2012] RX 450h.



COMPARABLE: TOYOTA #9228-06501 & #9228-06500-02. USE IN CONJ. W/ 24MM OR 15/16" SOCKET

**#TOY 300**  
**TOYOTA OIL FILTER WRENCH SET**



Includes: #TOY 640, #TOY 730, & #M 0219. With the #TOY 300 you have every 1980-2013 gas engine **TOYOTA/LEXUS** model covered.



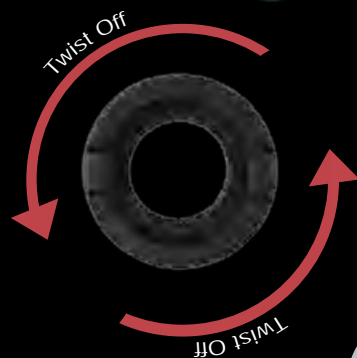
**#FZ 580**  
COOLING SYSTEM  
ADAPTER SET



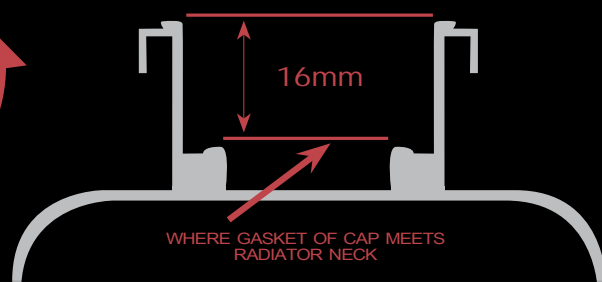
Simply thread on the taller or shorter ring to accommodate a shallow or deep neck. Applicable: many different Asian & Domestic vehicles. Fits both deep & shallow radiator necks.



**TECH TIP**



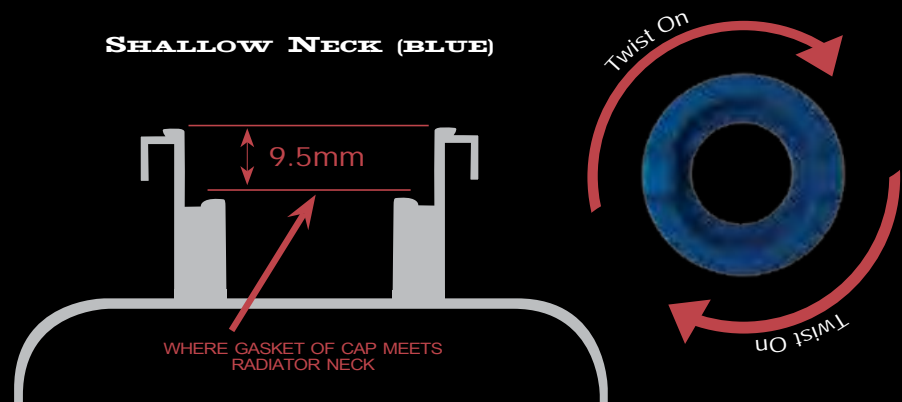
**DEEP NECK (BLACK)**



WHERE GASKET OF CAP MEETS RADIATOR NECK

OUR #FZ 580 ADJUSTS TO BOTH DEEP & SHALLOW RADIATOR NECKS W/ INTERCHANGEABLE HEADS

**SHALLOW NECK (BLUE)**



WHERE GASKET OF CAP MEETS RADIATOR NECK

**TANK ADAPTER #FZ 128**

For pressurizing cooling system. Applicable: **TOYOTA** vehicles w/ small/ deep necks.

SEE DIAGRAM (LEFT)



**TANK ADAPTER #FZ 138**

For pressurizing cooling system. Applicable: **TOYOTA** vehicles w/ small/ shallow necks.

SEE DIAGRAM (LEFT)



**TANK ADAPTER #FZ 148**

For pressurizing cooling system. Applicable: **LEXUS** LS 460 [2007–newer]; **SCION** TC [2013], xB [2013]; **TOYOTA** Celica GT-S, MR2 Spyder, Prius & Prius Hybrid [2001–2014], RAV4 [2006–2013], Highlander [2006–2010] & Highlander hybrid [2008].



**NISSAN/TOYOTA FUEL LINE DISC. TOOL #8026**



5/16" Fuel Line Disconnect Tool. For disconnecting the fuel line from the fuel rail. Applicable: [2004–newer] **NISSAN** & **TOYOTA**.



**10MM, 12-PT. SOCKET #S 3054 X-10**



1/2" Drive socket, 140mm long used for R & R of cyl. headbolts. Applicable: [2003–2007] **TOYOTA** Matrix w/ 1.8 L I-4.

**12MM, 12-PT. SOCKET #S 3054 X-12**



1/2" Drive, 140mm long socket. Used for R & R of cyl. headbolts. Applicable: **TOYOTA** [2003] 4Runner w/ [V6], all 2ZZ engines (4-cyl.), (4v) w/ VVT inc. [2000–2001] Celica & [2001–2006] Highlander w/ 2AZ-FE engines.

**HEADBOLT SOCKET #TOY 105**



1/2" Drive, 100mm long. Applicable: **TOYOTA** Paseo, Prius, Tercel & Yaris that use a special #8 bi-hexagon socket.

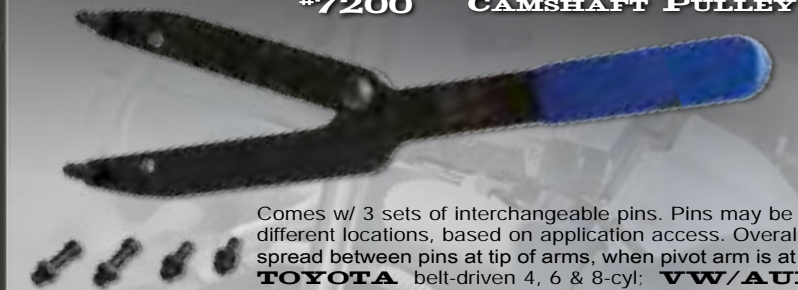
**A/C CLAMP REMOVER #TOY 200**



For removing special air condition line clamps. Fits both **TOYOTA** A/C Clamps, used on high & low pressure lines. Stainless steel release pins. Applicable: [1998–newer] Toyota w/ new style A/C clamps.

COMPARABLE: **TOYOTA** #09870-00015 & #09870-00025

**#7200 CAMSHAFT PULLEY HOLDER**



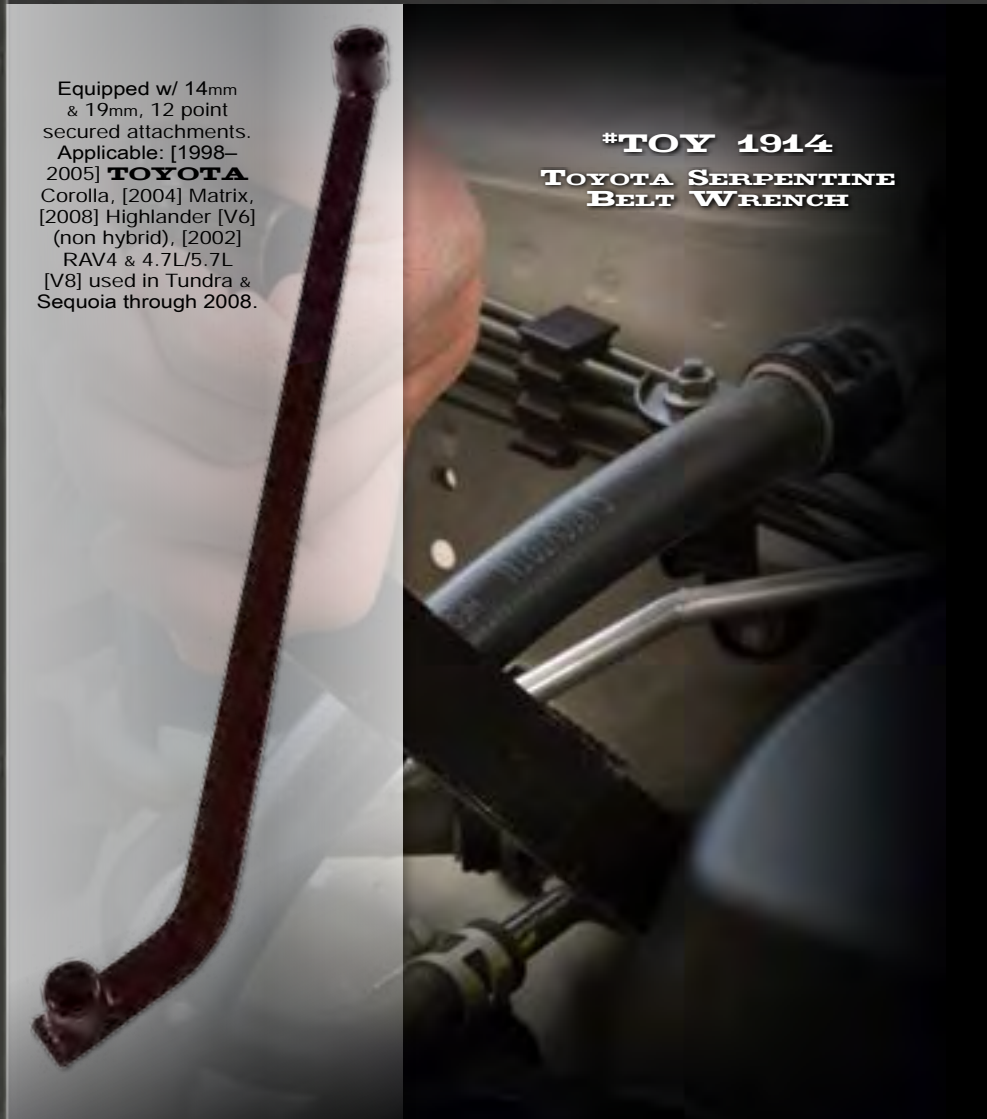
Comes w/ 3 sets of interchangeable pins. Pins may be threaded in two different locations, based on application access. Overall length 18". 12" spread between pins at tip of arms, when pivot arm is at 90°. Applicable: **TOYOTA** belt-driven 4, 6 & 8-cyl; **VW/AUDI** 1.8L, 2.0L turbo, 2.0L BBW, 2.5L, 3.2L; **VOLVO** (multiple models).

FOR DODGE/GM COVERAGE, MUST PURCHASE 2 OF THE #7200-4 PINS. PINS ARE MADE IN USA



**#TOY 1914 TOYOTA SERPENTINE BELT WRENCH**

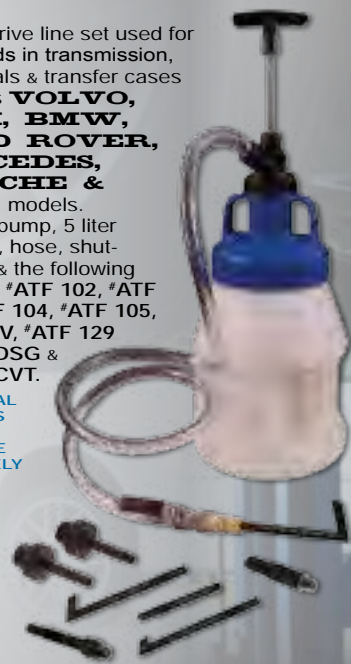
Equipped w/ 14mm & 19mm, 12 point secured attachments. Applicable: [1998–2005] **TOYOTA** Corolla, [2004] Matrix, [2008] Highlander [V6] (non hybrid), [2002] RAV4 & 4.7L/5.7L [V8] used in Tundra & Sequoia through 2008.





8-piece drive line set used for filling fluids in transmission, differentials & transfer cases in various **VOLVO, AUDI, BMW, LAND ROVER, MERCEDES, PORSCHE & VW** models. Includes pump, 5 liter container, hose, shut-off valve & the following adapters: \*ATF 102, \*ATF 103, \*ATF 104, \*ATF 105, \*ATF 108V, \*ATF 129, \*ATF 16 DSG & \*ATF 17 CVT.

ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY

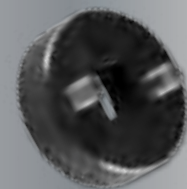


**\*ATF 1008-5 EURO EURO DRIVE LINE FILLER**



**BRAKE CALIPER PISTON ADAPTER #V 450**

3/8" Drive. Used for turning in the rear brake caliper piston. Applicable: [2005–newer] **VOLVO** 40 & 50 series.



**BRAKE CALIPER SOCKET #EU 2090**

9mm Allen brake caliper socket w/ 3/8" Drive. Applicable: **VOLVO** [2010 & newer] front caliper slide bolts.



**TANK ADAPTER #FZ 22**

For pressurizing cooling system. Applicable: **VOLVO** trucks w/ 48 x 3mm threads on filler neck; [1978–1993] **VW/AUDI** w/ male threads on filler neck of expansion tank; Audi A8/S8, **PORSCHE** 911, Boxster; [2007–2008] Kenworth trucks.

INCLUDED W/ \*FZ 1002 COOLING SYSTEM ADAPTER SET



**TANK ADAPTER #FZ 25**

For pressurizing cooling system. Applicable: **VOLVO** [through 2007], **MINI** Cooper, **JEEP, LAND ROVER, SAAB** & Volvo trucks w/ 47 x 3mm threads on the filler neck. Works on new **BMW** [V8] twin-turbo inter-cooler coolant reservoir. Has female 47 x 3mm threads.



**36MM OIL FILTER SOCKET #2136**

36mm, 6 Flats. Applicable: **VOLVO** [2005–2010] 40 & 50 series & [2007–newer] w/ 3.0L & 3.2L engines.



**TANK ADAPTER #FZ 47**

Used for pressurizing the cooling system. Adapter has M49 x 2.5 buttress threads. Applicable: **VOLVO** S40 & V50 [2004–2010] & all [2008–2013] Volvo (exc. XC 90).



\*FZ 47 SHOWN HERE IN USE

**MULTI-TOOTHED ALTERNATOR PULLEY SOCKET #H 2592**

Used for R & R of the free-wheel pulley on the alternator. Used in conj. w/ \*S 3054 X-10 or \*S 1054TX T-50 sockets. Applicable: **VOLVO** C70 [2006–newer], C70 conv. [through 2005], C70 Coupe [through 2002], S40 [through 2004], S40 [2004–newer], S60 [through 2009], S60 [2011–newer], S70, S80 [through 2006], S80 [2007–newer], S80L, V40 [through 2004], V40 [2013–newer], V40 Cross Country, V50, V60, V70 [through 2000], V70 [2000–2008], V70 [2008–newer], V70 XC [through 2000], V70 XC [2001–newer] / XC70 [through 2007], XC60, XC70 [2008–newer], XC90 & C30.

COMPARABLE: VOLVO \*9995760



**VOLVO FUEL TANK LOCKING RING TOOL #V 720**

Applicable: V70 [2000–newer], S80, XC90, S60, V70 XC [2001–newer] / XC70. Engines: B5204T4, B5204T5, B5234T3, B5234T7, B5244S, B5244S2, B5244S6, B5244SG, B5244SG2, B5244T3, B5244T4, B5254T2, B6284T, B6294S, B6294S2, B6294T, B6304S3, B8444S, D5244T, D5244T2, D5244T3, D5252T MSA 15.8 & B5204T3.

COMPARABLE: VOLVO \*9995720



**\*V 500 VOLVO CAM/CRANKSHAFT ALIGNMENT SET**

For alignment of cam & crankshafts on all in-line 4, 5 & 6-cyl. twin cam motors through 2011 (exc. 3.0L & 3.2L). May also be used to align camshafts w/ cam cover.

Applicable: B6254GS, B6294T, B5234T4, B6294S2, B5244S6, B5204T2, B5234FS, B4184S2, B5254FS M4.4, B4204T2, B5244S4, B5254T, B5234T9, B4204T3 (US/CDN), B6304S3, B5204T4, B5244S5, B5204T3, B5204FS, B5252FS, B5254FS M 4.3, B4194T, B6294S, B5244T4, B6254FS, B4184S, B5234T6, B5234T2, B6304FS2, GB5252S, B4204S2, B4204T, B5244S2, B5204T5, B5244T7, B4184S9, B4204T4, B6284T, B5234T5, B6304FS, B4204T3, B5244SG2, B6244FS, B4184SJ, B4204T2 CVVT, B6304GS, B5254T4, B4184S3, B5234T3, B5244T2, B5244T3, B5244T5, B5254T2, B4204S, B5244S7, B5204FT, B5234FT, B5234T8, B5234T7, B5244S, B4184S10, B4194T2, B5254T3, B5254S, DENSO, B4164S, B5254FS LH (3.2L), B5244SG, B5244T, B4204T5, B5202FS, B4164S2 & D4192T2.

COMPARABLE: \*9995451, \*9995452, \*9995453 & \*9995454



**\*V 722 VOLVO ECU RELEASE KEY**

For removing the ECU from the body mount. Applicable: C70 coupe [through 2002], S60 [through 2009], S70, S80 [through 2006], V70 [through 2008], V70XC [2000–newer], XC70 [through 2007], XC90 & C70 convertible [through 2005].



**VOLVO ATF ADAPTER #ATF 108V**

Drive Line Filler Adapter applicable to some [2007–newer] **VOLVO** using 5/16" x 24 threaded plug. Does not include pump, container, hose, or shut-off valve.



**86.5MM OIL FILTER WRENCH #V 410**

86.5mm, 16 Flats. Used w/ a 22mm socket. Applicable: **VOLVO** vehicles from [1999–2007] & [2008–newer] XC90 w/ [V8].

FOR 3.0 & 3.2L SEE \*2136



**\*OF AUD1000 EURO 1/4-TURN OIL FILLER**

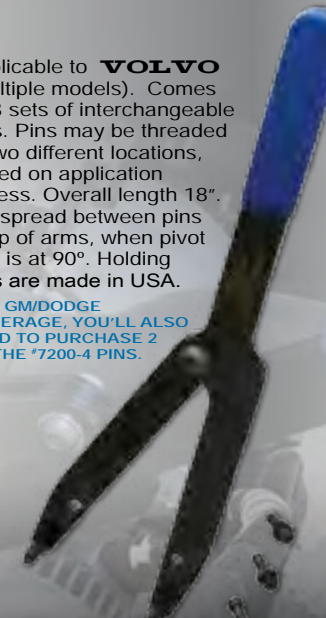


Specifically designed to attach to the valve covers. When adding oil to the engine you don't have to worry about making a mess due to the internal baffle of the valve cover. Applicable: **BMW, DODGE** Sprinter 2.7L, **MERCEDES, VW/AUDI** (1.8 T, 1.9L TDI, 2.0 T, 2.8L, 3.0L, 3.2L, 3.6L & 4.2L) & **VOLVO** 2.5L engines. Also fits Teledyne Motors 550 & 520 found in **BEECHCRAFT & CESSNA** aircraft.

**\*7200 CAMSHAFT PULLEY HOLDER**

Applicable to **VOLVO** (multiple models). Comes w/ 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°. Holding pins are made in USA.

FOR GMDODGE COVERAGE, YOU'LL ALSO NEED TO PURCHASE 2 OF THE \*7200-4 PINS.



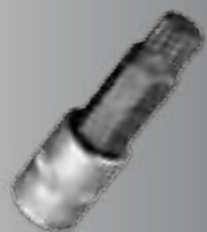


**#6506**  
**VW/AUDI AXLE NUT SET**

Contains: #6500-14, #6500-17, #6500-18, #6500 X-24, #6500 X-30 & #6500 X-32. 14mm Allen for [1996-2001] **AUDI** A4 front & rear axle bolts (AWD) & **VW** Passat; 17mm allen for [1998-2005] VW Passat, [1999-2009] Audi A4 front & rear axle bolts (AWD) & A6 front; 18mm, 12-pt. [2006-2013] VW Jetta & Golf rear axle bolts; 24mm 12-pt. socket used for front axle bolts on [2013-newer] Beetle, Golf, Jetta, Passat & [2009-2013] Tiguan; 30mm 12-pt. socket for front axle nuts on [1999-2005] VW Golf, Jetta, Cabrio & Beetle; 32mm 12-pt. socket w/ 3/4" drive for front & rear axle nuts on VW Touareg.



**#6500 X-18** 18MM, 12-PT. SOCKET



18mm, 12 point socket w/ a 1/2" Drive. Applicable: **VW** Jetta & Golf [2006-2013]. For the R & R of the rear axle bolt. **COMPARABLE: VW/AUDI T 10162**

**#6500 X-30** 30MM, 12-PT. SOCKET



Impact socket used for R & R of front axle nuts. 1/2" drive. Applicable: **VW** Cabrio [1999-2005], Beetle [1999-2005], Golf [1999-2005] & Jetta [1999-2005].

**#6500 X-32** 32MM, 12-PT. SOCKET



32mm, 12-Point, 3/4" drive impact socket. For R & R of front & rear axle nuts. Applicable: **VW** Touareg 32mm axle nut.

**#6500-14** 14MM ALLEN SOCKET



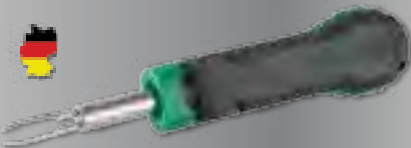
1/2" Drive Impact Socket. 14mm Allen Socket. Applicable: **AUDI** A4: Front & rear axle bolts AWD. [1996-2001] & **VW** Passat rear axle bolts [1996-2002].

**#6500 X-24** 24MM, 12-PT. SOCKET



24mm, 12-point socket, 1/2" drive, 38mm long. For R & R of front axle bolt. Applicable: [2009-2013] Tiguan & [2013] Golf, Jetta. **COMPARABLE: T 10361**

**#S 1591 N** WIRE TERMINAL EXTRACTOR



Used to remove flat terminals w/ two release tangs from the connector plug. 1.65mm wide, 2.8mm Apart & 18mm long. **COMPARABLE TO VW #VAS1978/18**

**#3424** SPREADER



For the R & R of the front shock absorber tube from the wheel bearing housing. Applicable: **VW** & **AUDI** TT.

**#6500-17** 17MM ALLEN SOCKET



17mm Allen Socket. Applicable: **AUDI** A4 front & rear axle bolts AWD. [2002-2009], A6 front axle bolts [1999-2009] & **VW** Passat front axle bolts [1998-2005].

**#3344 A** RADIO REMOVAL TOOL



For radio removal on **AUDI** A4, A6, A8 & **VW** Beetle. **TWO PAIR REQUIRED IN MOST CASES. COMPARABLE: VW T 10057**

**#S 1553 N** WIRE TERMINAL EXTRACTOR



Used to remove flat terminals w/ one release tang from the connector plug. 1.5mm Wide, fits connectors 2.8mm-5.8mm wide. **COMPARABLE TO VW #VAS1978/29**

**#S 1556 N** WIRE TERMINAL EXTRACTOR



Used to remove flat terminals w/ two release tangs from the connector plug. 1mm wide, 2.5mm apart & 12.15mm long.

**RADIO REMOVAL TOOL #2040**

For **VW, AUDI, FORD,** & **SAAB** radios w/ DIN chassis.



**T-20 T-HANDLE DRIVER #3200 T-20**



Used to access the door handle fasteners on **VW** models. Applicable: [2001-2004] C-Class w/ 203 chassis & newer VW Golf, Jetta, Beetle & Passat. **COMPARABLE: VW T 10072**

**T-30 TORX SCREWDRIVER #3200 T-30**



Used to access the door handle fasteners on **MERCEDES** models. Applicable: [2000-2004] Mercedes S-Class w/ 220 chassis. Also used for R & R & adjustments of headlamps on [1999-2004] **AUDI** A6.

**T-6 TORX BIT #3200 T-6**

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



**4MM, 12-PT. SCREWDRIVER BIT #3200 X-4**

This 1/4 inch hex drive bit is used for the R & R of 4mm door handle screws. Applicable: **VW** Golf, Jetta, Passat & Beetle.



**#3101**  
**8-PC. RADIO REMOVAL SET**

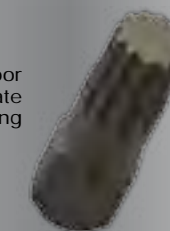


Includes: #2040, #BMW 050, #3344 A (includes two pairs), #M 2070, 3316, #BMW 025 & #BMW 010. Applicable: **FORD** & **VW** models w/ a DIN chassis, **BMW** models w/ anti-theft radio, Audi A4, A6, A8 & VW new Beetles, 1992 & later **MERCEDES** 129, 140, 163, 202 & 210 models, VW Passat, Jetta & Golf, center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39). Most tools made in USA.



**8MM, 12-PT. BIT #3200 X-8**

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



**RADIO REMOVAL KEYS #3316**

For removing the factory-installed radio. Applicable: new body style [1998-2005] **VW** Passat & [1999-2005] Jetta & Golf w/ vertically aligned key slots.



**#3200**  
**DOOR & HINGE HANDLE SET**

A compact solution to accessing the special fasteners found on the door hinges & handles of **VW/AUDI, MERCEDES-BENZ** & **PORSCHE**. Includes: five door hinge/handle bits (less than an inch long) & a slender ratcheting wrench. Also included are the extra long drivers necessary to access the door handles of Mercedes-Benz & VW.





**#FZ 1002**  
**COOLING ADAPTER SET**

Use w/ any standard Stant-Style pressure tester. Contains the following adapters: \*BMW 345, \*BMW 350, \*FZ 22, \*FZ 25, \*FZ 41 & \*M 0349.  
Applicable: European vehicles.

**#FZ 163**  
**COOLING SYSTEM ADAPTER**



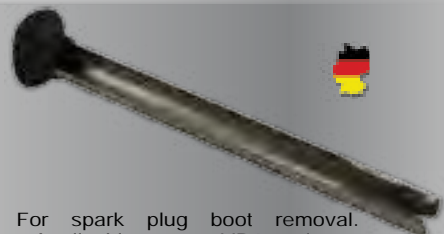
Fits [2005-2009] **PORSCHE** Cayman.

**#6700**  
**1.8T TENSIONER HOLDER SET**



Contains: \*6700-1 Tensioner Bolt & Washer, \*6700-2 Tensioner Locking Plate, \*6700-3 Tensioner Lock Pin, & \*6700-4 Holding Rod. For holding the timing belt tensioner & the accessory belt tensioner. Applicable: **VW/AUDI** w/ 1.8L turbo.

**#H 1849-6**  
**PLUG CONNECTOR REMOVER**



For spark plug boot removal. Applicable: **VW** VR6 engine.

COMPARABLE: **VW** \*T10029

**#H 2579-9**  
**#9 POLYDRIVE SOCKET**



#9 Polydrive headbolt socket w/ 1/2 inch drive. Applicable: most [1998 & later] **VW/AUDI** engines w/ after market headbolts.

**#H 1849-10**  
**VW/AUDI COIL PACK PULLER**



Used for removing ignition coils w/ final output stage. Applicable: 2.0T, 1.8T, 3.0L, 3.2L & 4.2L engines.

COMPARABLE: **VW** \*T40039

**#FZ 22**  
**TANK ADAPTER**



For pressurizing cooling system. Fits: **VW/AUDI** [1978-1993] models w/ male threads on filler neck of expansion tank. Audi A8/S8, **PORSCHE** 911, Boxster.

INCLUDED W/ \*FZ 1002 COOLING SYSTEM ADAPTER SET

**#FZ 41**  
**TANK ADAPTER**



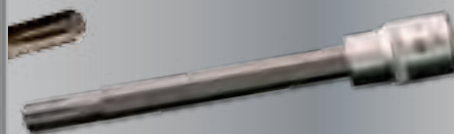
For pressurizing cooling system. Applicable: 1996-newer **AUDI** & 1998-newer **VW** models. Also works w/ **PORSCHE** Cayenne.

**#TA 18**  
**ADAPTER**



For brake master cyl. or clutch master cyl. reservoirs. (1/4-18 NPT). Used in conj. w/ pressure bleeder. Fits Most European Cars.

**#3462**  
**VW/AUDI HEADBOLT SOCKET**



#10 Polydrive headbolt socket, 1/2 inch drive, is 155mm long. Applicable: most 1998-later **VW/AUDI** engines.

COMPARABLE: **VW** \*3452, \*3452 A & \*T 10070

**#6632**  
**VW/AUDI COIL PACK PULLER**

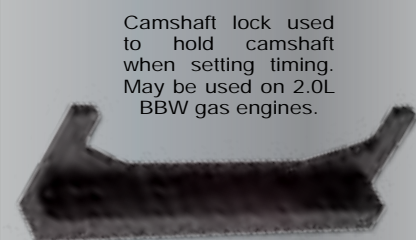


For removing & installing coils w/ power stage.

Applicable: [2008] **AUDI** Q7 3.6L, [2007] Audi TT 3.2L V6, VW 2.8L VR6 (4V) engines & **VW** Touareg w/ 3.2L [V6].

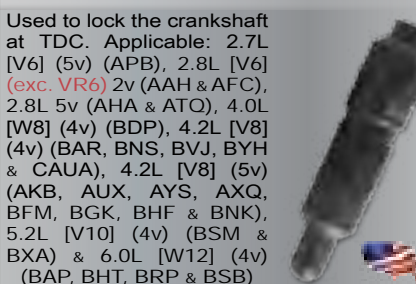
COMPARABLE: **VW** \*T10095A

**CAM SETTING BAR** **#2065 A**



Camshaft lock used to hold camshaft when setting timing. May be used on 2.0L BBW gas engines.

**LOCKING PIN** **#3242**



Used to lock the crankshaft at TDC. Applicable: 2.7L [V6] (5v) (APB), 2.8L [V6] (exc. VR6) 2v (AAH & AFC), 2.8L 5v (AHA & ATQ), 4.0L [W8] (4v) (BDP), 4.2L [V8] (4v) (BAR, BNS, BVJ, BYH & CAUA), 4.2L [V8] (5v) (AKB, AUX, AYS, AXQ, BFM, BGK, BHF & BNK), 5.2L [V10] (4v) (BSM & BXA) & 6.0L [W12] (4v) (BAP, BHT, BRP & BSB)

**CAMSHAFT ALIGNMENT TOOL** **#3243**

Used to align camshafts on **AUDI** w/ 2.8L [V6] (2v) engines (AAH & AFC). Audi: 90 [1993-1995], 100 [1992-1994], A4 [1996-1997], A6 [1995-1997], A6 Avanti [1995-1998] & Cabriolet [1994-1998].

USED IN CONJ. W/ \*3242



**VR-6 CAMSHAFT RULER** **#3268**

For cam alignment. Applicable: **VW** 2.8L VR6 (2v) engines. (AES, AAA & AFP). Applicable: **VW** Eurovan [1997-2000], Jetta [1994-2002], GTI [1995-1999], Passat [1995-1997].



**TDI INJECTOR PUMP LOCKING PIN** **#3359**

For [1999-2011] **VW** TDI engines. Locks cam on 1.9L (BEW & BRM engine codes). Also used on newer **VW** 2.0L turbo diesel (CBEA), (CKRA) & (CJAA).

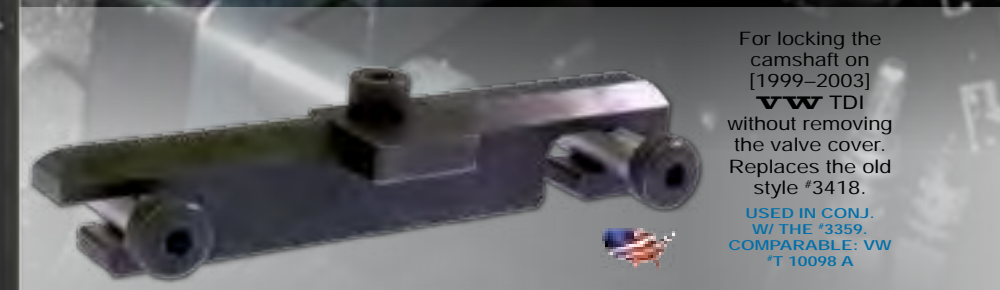
USED IN CONJ. W/ \*3428 & \*T 10050 & \*T 10100 DEPENDING ON MODEL YEAR OF TDI & PULLEYS



**#3428**  
**TDI CAM LOCK BAR**

For locking the camshaft on [1999-2003] **VW** TDI without removing the valve cover. Replaces the old style \*3418.

USED IN CONJ. W/ THE \*3359. COMPARABLE: **VW** \*T 10098 A



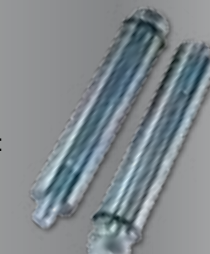
**BRACKET FOR CHAIN ADJUSTER** **#3366**



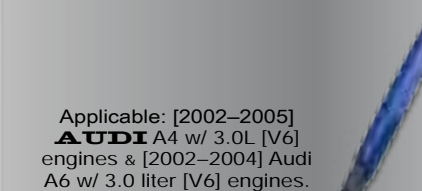
For removing & installing the timing chain adjuster. Applicable: **VW** & **AUDI** 4, 6 & 8-cyl. engines w/ (5v) per cyl.

**SUPPORT GUIDES** **#3369**

Guides for holding front lock carrier in service position. Applicable: **AUDI** A4 & A6; **VW** Passat 1998 through September 2000.



**TENSIONER RELEASE TOOL** **#3299 A**

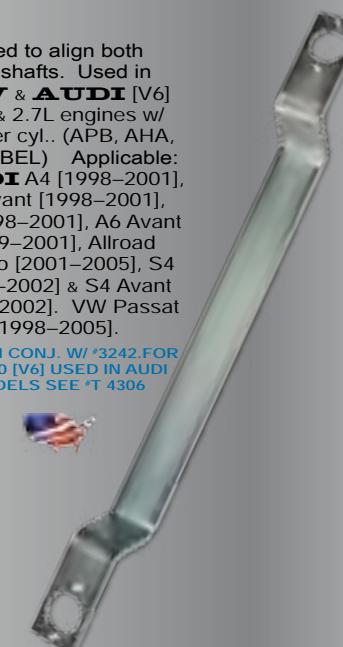


Applicable: [2002-2005] **AUDI** A4 w/ 3.0L [V6] engines & [2002-2004] Audi A6 w/ 3.0 liter [V6] engines.

**CAMSHAFT ALIGNMENT TOOL** **#3391**

Used to align both camshafts. Used in **VW** & **AUDI** [V6] 2.8L & 2.7L engines w/ (5v) per cyl. (APB, AHA, ATQ & BEL). Applicable: **AUDI** A4 [1998-2001], A4 Avanti [1998-2001], A6 [1998-2001], A6 Avanti [1999-2001], Allroad Quattro [2001-2005], S4 [2000-2002] & S4 Avanti [2001-2002]. **VW** Passat [1998-2005].

USED IN CONJ. W/ \*3242 FOR THE 3.0 [V6] USED IN **AUDI** MODELS SEE \*T 4306

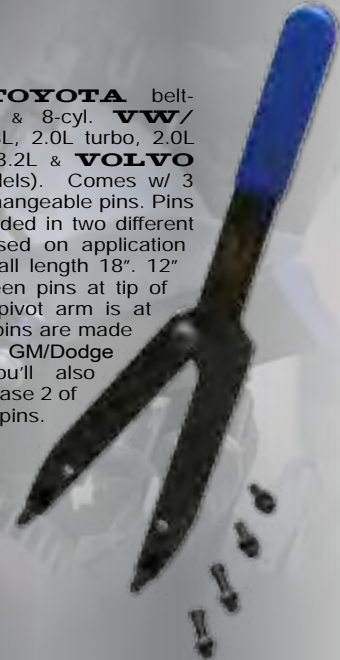






**#7200  
CAMSHAFT PULLEY  
HOLDER**

Applicable: **TOYOTA** belt-driven 4, 6 & 8-cyl. **VW/AUDI** 1.8L, 2.0L turbo, 2.0L BBW, 2.5L, 3.2L & **VOLVO** (multiple models). Comes w/ 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°. Holding pins are made in USA. For GM/Dodge coverage, you'll also need to purchase 2 of the #7200-4 pins.



**#T 10115 TENSIONER  
LOCKING PINS**

Used to hold the timing belt tensioner in place while removing & installing the timing belt. Applicable: [2004–newer] Golf, Jetta & Beetle w/ 1.9L TDI Pumpe Duse, engine #BEW; & 2.0L turbo (BPY).



**#VW 5220 CAMSHAFT  
ADJUSTER  
SOCKET**



\*10 Polydrive socket for camshaft adjuster bolt on **VW/AUDI** 2.0L turbo (BPG) (BPY) engines.  
**COMPARABLE: #T40080**

**#T 10252  
CAMSHAFT LOCKING TOOL**

For **VW/AUDI** 2.0L turbo engines (BPG)(BPY)(BWT). Applicable: Audi A3 [2006–2008], A4 [2005–2008], A4 Avant [2005–2007], A4 Cabriolet [2007–2009], TT [2008–2009] & VW Eos [2007–2008], GTI [2006–2008], Jetta [2005–2008], Passat [2006–2008] & Passat Wagon [2007–2008].  
**USED IN CONJ. W/ #VW 5220, #T 10115 & #VW 87-2**



**#T 10051 CAMSHAFT  
COUNTER-  
HOLDER**



Used to counter-hold camshaft when loosening & tightening camshaft gear hub bolt. Applicable: **VW** 1.9L TDI-PD (BEW) (BRM) & 2.0L (4v) TDI (CBEA)

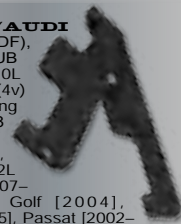
**#T 10052 CAM  
SPROCKET  
PULLER**



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

**#T 10068 A CAMSHAFT  
ALIGNMENT  
FIXTURES**

Used on the following **VW/AUDI** engines: 2.8L VR6 (4v) (AXK & BDF), 3.2L VR6 (4v) (BAA, BJS, BMX, BUB & CBRA), 3.6L (BHK, BHL & BLV) 4.0L [V8] (4v) (V8) (BDP) & 6.0L [V12] (4v) (BAP, BRP & BSB) in the following models: Audi A3 [2006–2009], A8 [2005–2009], A8 L [2005–2009], Q7 [2007–2009], TT [2004–2009], **PORSCHE** Cayenne [V6] 3.2L (9PA), VW CC [2009], Eos [2007–2009], Eurovan [2001–2003], Golf [2004], GTI [2002–2006], Jetta [2002–2005], Passat [2002–2009], (BDP) Passat Wagon [2007–2009], Phaeton [2004–2006], R32 [2004 & 2008] & Touareg [2004–2009].  
**DOES NOT FIT 4.5L ENGINES**



**#S 3054 X-10 10MM, 12-PT.  
SOCKET**



1/2" Drive socket, 140mm long. Used on **VW & AUDI** headbolts that are 10mm, 12-point. Most VW/Audi applications [1998 & later] require the #3462 Headbolt Socket.  
**COMPARABLE TO VW #3410**

**#S 3054 X-12 12MM, 12-PT.  
SOCKET**



1/2" drive, 140mm long socket. Used on older **VW/AUDI** models w/ 12mm 12-point headbolts.

**CRANKSHAFT STOP #T 10100**

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

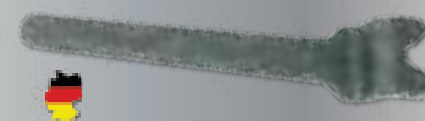


**CRANKSHAFT STOP #T 10050**

Used to lock the crankshaft in place during timing belt replacement on [2004–2011] **VW** TDI Pumpe Duse engines equipped w/ round pulley #038105263F.



**SPANNER WRENCH #H 2587**



For adjusting the tension of the timing belt. Applicable: 4-cyl. **VW** Golf & Jetta through 1998, 4-cyl. VW Passat, Corrado, 1.9 liter TDI VW models through 1997 & **AUDI** 4-cyl. diesel models.  
**COMPARABLE: VW #V159**

**TIMING BELT SPANNER WRENCH #VW 87-1**



For the adjustment of the timing belt. Applicable: [2004–2005] **VW** Golf, Jetta Pumpe Duse & [2002–2005] **AUDI** 3.0L [V6].  
**COMPARABLE TO VW #3387**

**TIMING BELT SPANNER WRENCH #VW 87-2**



For adjusting the timing belt tension. Applicable: [1999–newer] **VW** Golf, Jetta, Passat & [1999–2003] Beetle w/ 2.0L gas engine & 1.9L T.D.I. diesel engine.  
**COMPARABLE TO VW TOOL #T10020**



**#6800TDI  
TDI TIMING  
BELT TOOL SET**



For setting & adjusting the cam/crank/pump timing on [1999–2011] VW TDI engines. Contains one #3359 TDI Lock Pin, #3428 TDI Cam Lock Bar, #T 10050 Crankshaft Stop, #T 10100 Oval Pulley Crankshaft Stop, #T 10115 Tensioner Lock Pins, #VW 87-1 & #VW 87-2 Timing Belt Tensioner Spanner Wrenches.  
**FOR 2009–2011 VW TDI, ORDER ONE ADDITIONAL #3359**

**CAM LOCK CLAMP #T 40070**

For setting timing in VW/Audi engines 2.5L I5 (BGP, BGO, BPR, BPS, CBTA & CBUA), 3.2L [V6] (4v) (BKH), 4.2L [V8] (4v) (BAR, BNS, BVJ, BYH & CAUA) & 5.2L [V10] (4v) (BXA & BSM). Applicable: **AUDI** A4 [2005–2008], A4 Avant [2005–2008], A4 Cabriolet [2007–2009], A6 [2005–2009], A6 Avant [2006], A8 [2007–2009], R8 [2008–2009], RS4 [2007–2008], S5 [2008–2009], S6 [2007–2009] & S8 [2007–2009]. **VW** Jetta [2005–2012], Jetta SportsWagen [2008–2009], Beetle [2006–2010], Beetle conv. [2006–2010], Rabbit [2006–2009] & Touareg [2007–2009].



#T 40070 SHOWN HERE IN USE

**#T 4306  
AUDI 3.0L TIMING TOOL SET**



Includes: #T 40011, #T 40026, #T 40028 & #T 40030. Used to hold & align the camshafts. Applicable: Audi 3.0L [V6] (5v), used in A4 [2002–2005] & A6 [2002–2004].



**\*VW 133 SI**  
INJECTOR/CHAMBER TOOL SET

Used to remove & install high pressure injectors. Also used to install combustion chamber seal on VW/Audi. Applicable: Audi: A3 [2006–2009] 2.0L (4v) turbo, A4 [2005–2008] 2.0L (4v) turbo, [2009] 2.0L (4v) turbo, [2005–2008] 3.2L [V6] (4v), [2008] 4.2L [V8] (4v), A5 [2008–2009] 3.2L [V6] (4v) & [2008–2009] 4.2L [V8] (4v), A6 [2005–2008] 3.2L [V6] (4v), [2009] 3.0T [V6] (4v) turbo & [2005–2009] 4.2L [V8] (4v), A8/A8L [2007–2009] 4.2L [V8] (4v) & [2007–2009] 5.2L 10-cyl. (4v), Q7 [2007–2009] 3.6L [V6] (4v) & [2007–2009] 4.2L [V8] (4v), R8 [2008–2009] 4.2L [V8] (4v), RS4 [2007–2008] 4.2L [V8] (4v), S4 [2005–2008] 2.0L (4v) turbo & [2008] 4.2L V8 (4v), S5 [2008–2009] 4.2L [V8] (4v), S6 [2007–2011] 5.2L 10-cyl. (4v), S8 [2007–2009] 5.2L [V10] (4v) & TT [2008–2009] 2.0L (4v) turbo & [2008–2009] 2.0L (4v) turbo. VW: Eos [2007–2009] 2.0L (4v) turbo, Golf [2006–2009] 2.0L (4v) turbo, Jetta [2005–2009] 2.0L (4v) turbo, Passat [2006–2008] 2.0L (4v) turbo, [2006–2009] 2.0L (4v) turbo & [2006–2009] 3.6L [V6] (4v) turbo (BLV), Tiguan [2009] 2.0L (4v) turbo & Touareg [2007–2009] 3.6L [V6] (4v) & [2007–2009] 4.2L [V8] (4v).

\*T 40014 SHOWN HERE IN USE



**\*T 40011** 3-PC. 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 & 4.2L [V8] (5v) w/ timing belt.



\*T 40026 SHOWN HERE IN USE



**\*T 40026** CRANK LOCK PIN

Used to lock the crankshaft at TDC position when replacing the timing belt. Applicable: **AUDI** 3.0L [V6] (5v).  
USED IN CONJ. W/ \*T 40011, \*T 40028, \*T 40030

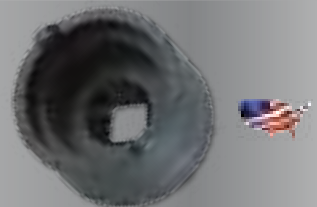


\*T 40028 SHOWN HERE IN USE



**\*T 40028** CAMSHAFT ADJUSTING SOCKET

Used to adjust variable valve timing on the exhaust side camshaft to basic position. Applicable: **AUDI** 3.0L [V6] (5v).



**\*T 40046** CAMSHAFT LOCATOR



Used to lock camshafts when checking valve timing. Applicable: **AUDI** engine 4.2L [V8] (5v) chain-driven (BAS, BBD, BHF & BNK).

**\*T 40047** SETTING GAUGE

Used to fix the camshaft position sensor rotor ring when installing the timing chains on Audi 4.2L [V8] (5v) chain-driven (BAS, BBD, BHF & BNK) engines.



**\*T 40058** CRANKSHAFT SOCKET



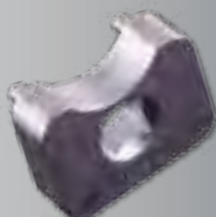
For turning the crankshaft. Applicable: **VW/AUDI** engines 3.2L [V6] (4v) (BKH)(CALA), 4.2L [V8] (4v) (BAR, BNS, BVJ & CAUA), 4.2L [V8] (5v) (BNK) & 5.2L [V10] (4v) (BSM & BXA).

**\*T 40069** VW/AUDI CRANKSHAFT LOCKING PIN



Locking pin to lock crankshaft at T.D.C. Applicable: **VW/AUDI** engines 2.5L I-5 cyl. (BGP, BGQ, BPR, BPS, CBTA & CBUA) & 3.2L [V6] (4v) (BKH & CALA). Audi A4 [2005–2008], A4 Avant [2005–2008], A4 Cabriolet [2007–2009], A5 [2008–2009] & A6 [2009–2011]. VW Jetta [2005–2012], Jetta SportsWagen [2008–2009], Beetle [2006–2010], Beetle convertible [2006–2010] & Rabbit [2006–2009].

**\*T 40009** TENSIONER SPANNER WRENCH



Used when adjusting the toothed belt tensioner eccentric to the proper pre-tension torque. Applicable: **VW/AUDI** [V8] (5v) per cyl.

**TURBO TIMING SET** **\*VW 20T**



For [2009–newer] **VW/AUDI** models w/ 2.0L (turbo). Includes: \*T 40267 locking clips, \*VW 10352 assembly tool, \*T 40271 camshaft clamps, \*T 10355 crank counter hold tool, \*T 40196 drifts for camshaft pieces, \*T 10368 crankshaft thrust pieces.

**ASSEMBLY TOOL** **\*VW 10352**

For R & R of 4/3 way central valve for camshaft adjustment. Applicable: 2.0L 4-cyl. (4v) turbo TFSI (CAEB) engine.  
COVERS BOTH FACTORY TOOL \*T10352 & \*T10352-1



**LOCKING CLIPS** **\*T 40267**

Locking clips for Chain Tensioner. Applicable: 2.0L 4-cyl. (4v) turbo TFSI (CAEB) engine (Generation III).



**CAMSHAFT CLAMP** **\*T 40271**

Used to lock camshaft sprockets in TDC position when installing timing chain. Applicable: 2.0L 4-cyl. (4v) turbo TFSI (CAEB) engine. Essential for Generation III, very helpful for Generation I & II.



**\*T 40030**  
CAMSHAFT ALIGNMENT FIXTURE



Used to hold & align the camshafts. Applicable: **AUDI** 3.0L [V6] (5v), used in 2002–2005 Audi A4 & 2002–2004 Audi A6.

USED IN CONJ. W/ \*T 40011, \*T 40026 & \*T 40028. FOR COMPLETE SET, SEE \*T 4306

**\*T 40196** DRIFT FOR CAMSHAFT SLIDE PIECES



Used for sliding pieces on Camshaft. Applicable: **AUDI** A4 [2008–newer] 2.0L (4v) TFSI, Q5 [2009 & newer] 2.0L (4v) TFSI.

**CRANKSHAFT THRUST PIECE** **\*T 10368**

Used when removing & installing lower timing chain cover. Applicable: **AUDI** 2.0L 4-cyl. (4v) turbo w/ chain (CAEB).



**CRANK COUNTER HOLD TOOL** **\*T 10355**

For counter-holding the vibration damper when loosening or tightening the center bolt of the Crankshaft.

Applicable: 2.0L 4-cyl. (4v) turbo TFSI (CAEB) engine, also CBFA & CCTA 2.0L engines.



**VW/AUDI CAM ALIGNMENT TOOL** **\*T 40005**

For holding both camshafts at TDC position while replacing the timing belt on VW/Audi vehicles w/ (40v) [V8] (5v per cyl.). Applicable: **AUDI** A8 [2000–2006], A8L [2004–2006] & S8 [2001–2003] & **VW** Touareg [2004–2007].  
USED IN CONJ. W/ \*3242





**\*ATF 1033-5 VW**  
**VW/AUDI DRIVE LINE FILLER**



5 piece set for filling transmission fluids for most **VW/AUDI** applications. \*ATF 1033-5 VW set includes pump, 5 liter container, hose, shut-off valve & the following adapters: \*ATF 103, \*ATF 104, \*ATF 105, \*ATF 16 DSG & \*ATF 17 CVT. **ADDITIONAL ADAPTERS ARE AVAILABLE SEPERATELY. FOR HALDEX AWD DIFFERENTIAL, SEE \*ATF 10H**

**\*ATF 10H** **HALDEX FILLING ADAPTER**



Used to fill the Haldex differential on the [2009–newer] CC, Passat & Tiguan w/ AWD 09M Trans. Does not include pump, container, hose, or shut-off valve.  
**COMPARABLE: VW \*VAS 6291/2**

**\*ATF 16 DSG** **"DSG" ATF ADAPTER**



**VW/AUDI** DSG drive line adapter used w/ the AST ATF Filler System. The attachment has a 24mm x 1.5 thread. Does not include pump, hose, or shut-off valve.  
**FOR COMPLETE VW/AUDI SYSTEM SET SEE \*ATF 1033-5 VW**

**\*ATF 17 CVT** **VW/AUDI "CVT" ATF ADAPTER**



**VW/AUDI** CVT Drive Line Adapter used w/ the AST ATF Filler System. The attachment has a 22mm x 1.5 thread. Does not include pump, hose, or shut-off valve.  
**FOR COMPLETE VW/AUDI SYSTEM SET SEE \*ATF 1033-5 VW**

**\*ATF 103** **VW/AUDI ATF ADAPTER**



For filling the **VW** Touareg transmission. Does not include pump, container, hose, or shut-off valve.  
**FOR COMPLETE VW/AUDI KIT, SEE TOOL \*ATF 1033 VW OR \*ATF 1033-5 VW**

**\*ATF 104** **VW/AUDI ATF ADAPTER**



Long angled **VW/AUDI** Adapter used in conj. w/ ATF Filler System. Does not include pump, container, hose, or shut-off valve.  
**FOR COMPLETE VW/AUDI SET, SEE \*ATF 1033-5 VW. COMPARABLE: ADAPTER INC. W/ VW FACTORY \*VAG1924**

**\*ATF 105** **VW/AUDI ATF ADAPTER**



M10 x 1.0 adapter used on **VW/AUDI** & Mini Coopers w/ "AISIN" transmission. Does not include pump, container, hose, or shut-off valve.  
**FOR THE COMPLETE VW/AUDI KIT, SEE TOOL \*ATF 1033-5 VW. USED IN CONJ. W/ THE ATF FILLER SYSTEM, WILL NOT THREAD INTO CVT TRANSMISSION**

**#3307** **FUEL PUMP WRENCH**



For R & R of the fuel pump. Applicable: [1998–2005] **VW** Passat, [2002–2004] **AUDI** A4 AWD, A6 [1999–2004].

**#H 2592** **MULTI-TOOTHED ALTERNATOR PULLEY SOCKET**



For R & R of the free-wheel pulley on the alternator.  
**USED IN CONJ. W/ \*S 3054 X-10 OR THE \*S 1054TX T-50 SOCKETS. COMPARABLE: VW \*3400**

**#S 54 X-14** **14MM, 12-PT. SOCKET**



14mm 12-point socket. 64mm length, 1/2" drive. Ideal for use on rear brake caliper bolts on [2006 & newer] **VW** Jetta & Passat.

**#T 10389** **ASSEMBLY TOOL**



For removal & installation of the lock cylinder housing on doors w/ no lock cylinder. Applicable: [2008–newer] **VW** Tiguan.

**ANGLED FUEL/ EVAP. CLAMP PLIERS** **#M2010ACP**



Angled fuel/evap. clamp pliers for R & R of Fuel/EVAP hose clamps on newer **MERCEDES & VW/AUDI**.



**FUEL FILTER & FUEL LINE PLIERS** **#MVW2050F**

Fuel line pliers for **VW/AUDI** fuel lines w/ plastic snap-together connectors. Applicable: [1999–newer] VW w/ plastic release-style lines.



**#2101** **7-PC. OIL FILTER WRENCH SOCKET SET**

Includes oil filter wrench sockets for many domestic & foreign applications. Set covers all **MERCEDES-BENZ** applications. The 27mm, 32mm & 36mm hex sizes cover **VW/AUDI, BMW**, newer Mercedes 4-cyl. engines, **SATURN** & **GM** 2.2 L Ecotec engines. Covers **FORD** Escape Hybrid & Ford OEM \*FL 910 & \*FL 793. The four cup-style wrenches cover many VW, BMW, **TOYOTA** & **MAZDA** 3. Also covers **DODGE** Sprinter & **JEEP** 3.0L CRD engines & [1999–2013] **VOLVO** models.

**32MM OIL FILTER SOCKET** **#2132**

32mm, 6 Flats, 3/8" Drive. Applicable: **AUDI** S6 5.2L [2007], Q7 4.2L. **VW** Golf 2.0L TDI [2011].



**36MM OIL FILTER SOCKET** **#2136**

36mm, 6 Flats. Applicable: **AUDI** Q7 3.6L; **VW** Corrado VR6 [1993], Eurovan VR6, Golf R32 3.2L turbo [2004], Jetta 2.0L turbo [2006], Jetta 2.8L VR6, Passat 2.8L VR6 & Touareg.



**74.5MM OIL FILTER SOCKET** **#2175**



74.5mm, 14 flats. Applicable: **AUDI** 4000, 5000, Fox. **PORSCHE** 924, 944. **VW** Corrado [1990–1993], Dasher, Fox, Golf/Jetta/Passat (1.8L turbo & 2.0L), Rabbit (gas) [1975–1984] & Scirocco.

**74MM OIL FILTER WRENCH** **#M 0219**



74mm, 14 Flats. Applicable: **PORSCHE** 911 "996" [1999–2005], 911 "997" [2005–2008], Boxter "986" [1997–2004], Boxter "987" [2005–2008], Cayenne [V8] & Caymen [2005–2008]; **VW/AUDI** A4 2.0T [2009–newer], CC 2.0T [2009–newer], EOS 2.0T [2009–newer], GLI 2.0T [2009–newer], Golf 1.9L TDI [1999–2005], Jetta 2.0T [2009–newer], Jetta 2.5L [2005–newer], Beetle [1999–newer], Passat 2.0T [2009–newer] & Tiguan 2.0T [2009–newer].



**#6300**  
**VW/AUDI 12-POINT**  
**SOCKET BIT SET**



7-Piece set includes sockets: #6300 XL-14 (R & R of late model Eurovan axle shafts & ball joints), #6300 XL-8 (Used for R & R of axle shaft bolts on VW Beetle, Jetta TDI & older VW/AUDI), #6300 XL-10 (Used for R & R of axle shaft bolts on [1999-2005] VW Passat & Golf), #6300 X-16 (R & R of manual transmission drain plug & VW Touareg/PORSCHE Cayenne brake caliper bolts), #6300 X-12 (R & R of axle shaft bolts on [1999-2005] VW Jetta (gas) & rear toe adjustment on [1999-newer] Audi A6), #6300 X-14 (R & R of Audi TT differential bracket & for bell housing bolts w/ tight clearance on various VW) & the #3424 (for assisting R & R of strut housing on newer Audi TT.)



**#6300 X-12** 12MM, 12-PT. SOCKET BIT



For the R & R of axle shaft bolts on newer VW Jetta (gas) & rear toe adjustment on [1999-newer] Audi A6. Also used for bell housing bolts w/ tight clearance on various VW models. Also used on AUDI recall #21C5 turbo coolant line replacement on 2009 A4.

**#6300 X-14** 14MM, 12-PT. SOCKET BIT



For R & R of AUDI TT differential bracket & for bell housing bolts w/ tight clearance on various VW models.

**#6300 X-16** 16MM 12-PT. TAMPERPROOF SOCKET



1/2" Drive, 60mm long tamperproof socket for R & R of manual transmission drain plug & PORSCHE Cayenne, AUDI Q7 & VW Touareg brake caliper bolts.

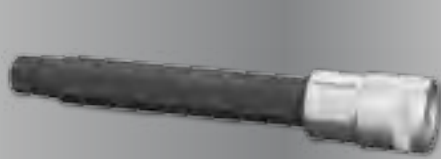
COMPARABLE: VW/AUDI TOOL #3357. ALSO USED ON MERCEDES DIESEL TRUCK FLYWHEEL BOLTS.

**#6300 XL-10** 10MM, 12-PT. LONG SOCKET



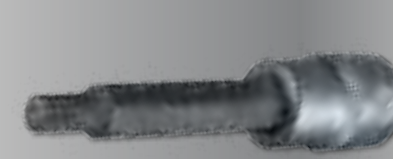
3/8" drive, 90mm long socket for R & R of axle shaft bolts on VW Passat & Golf.

**#6300 XL-14** 14MM, 12-PT. LONG SOCKET



1/2" Drive 140mm long socket. For R & R of late model Eurovan axle shafts & ball joints; Touareg inner cv bolts.

**#6300 XL-8** 8MM, 12-PT. LONG SOCKET



3/8" Drive, 90mm long socket for R & R of axle shaft bolts on VW Beetle, Jetta TDI & older VW/AUDI models.

**#T 10066** HALDEX FILTER WRENCH



Used for R & R the oil filter of the Haldex clutch on AUDI TT (O2C & O2M transmissions).

**#T 40057** VW OIL FILTER HOUSING DRAIN



For draining the oil filter housing on [2006-2008] VW/AUDI w/ 2.0L turbo (engine codes; BPG, BPY, BWT) & mid [2005-2011] 2.5L inline 5-cyl. VW engine. Prevents spillage during oil filter change & allows for drainage of oil from the filter housing.



#T 40057 SHOWN HERE IN USE

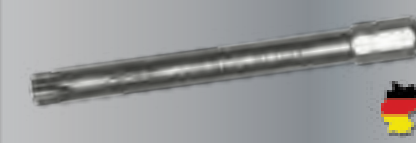
**#1201 A** TIE ROD END/BALL JOINT PULLER



Opens from 5 to 55mm, w/ a 26mm inside opening & an overall outside size of 47mm.

COMPARABLE: VW #3287 A & KUKKO 129-0

**#H 2223 LG T-30** TORX SOCKET INSERT



70mm long. For the R & R of the airbag from the steering wheel. Applicable: many BMW, MERCEDES, SAAB & VW models.

**6MM LONG ALLEN SOCKET #T 10107 A**



3/8" Drive, 355mm / 14" Long. Applicable: VW 2.5L intake manifold bolts & 6-speed manual gearbox (0A5 & 02N) right stub axle.

**5.5MM FLEXIBLE NUT DRIVER #3705.5**



5.5mm Flexible nut driver used for changing interior cabin filter on VW Touareg as well as flap motors on [1999-newer] Passat, Jetta, Beetle & Golf

**PULLER CLAW FOR VW 2.0 TURBO; ACCESSORY ARM #T 40001-6** (25MM SPREAD)

Applicable: VW/AUDI 2.0L (4v) Direct injection engine (BPY) (BPG) (BWT). Used to remove camshaft gear/wheel.

USED IN CONJ. W/ #T 40001 PULLER & #T 40001-7 ARM. INCLUDED W/ #VW 4006 SET



**PULLER CLAW FOR VW 2.0 TURBO; ACCESSORY ARM #T 40001-7**

Used to remove camshaft gear / wheel. Applicable: VW/AUDI 2.0L (4v) direct injection engine (BPY) (BPG) (BWT).

USED IN CONJ. W/ #T 40001 PULLER & #T 40001-6 ARM. INCLUDED W/ #VW 4006 SET



**12MM ALLEN SOCKET #H 985-12**



12mm Allen socket, 1/2" drive.



**#OFVW2013**  
**OIL FUNNEL**



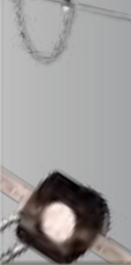
VW engine oil funnel for 2014-newer models w/ 2.0L turbo engine.

**VW/AUDI PULLER SET #VW 4006**

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



**AUDI ENGINE OIL DIPSTICK #AU 40178**



Applicable: [2009-newer] AUDI A4, A5 & A6 w/ a 2.0L TFSI, 3.2L FSI, 4.2L FSI & [2010-2013] S4 3.0L supercharged engine.

COMPARABLE: #T 40178



#AU 40178 SHOWN HERE IN USE



**EURO 1/4 TURN OIL FILLER #OFAUD1000**



No more mess, attaches directly to the valve cover & seals just like the factory cap. Fits VW/AUDI 1.8T, 1.9L TDI, 2.0T, 2.8L (30v), 3.0L (30v), 3.2L, 3.6L & 4.2L (40v); BMW 6 & 8-cyl. [1996-newer]; DODGE Sprinter; MERCEDES 112 & 113 engines.


FOR 2014 VW 2.0T, SEE #OFVW2013





#OFAUD1000 SHOWN HERE IN USE




ACURA — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 128			
	Integra	1990 – 1993	
 FZ 138			
	Integra	1994 – 1999	
	Legend	1991 – 1996	
	TL	2007	




ACURA — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFH33		Use in conj. w/ *OFHON1033 for Honda/Acura SUVs & Minivans	
	MDX	2004 – 2012	
	ZDX		
 OFHON1033			
	NSX		

BEECHCRAFT — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFAUD1000			
	Teledyne Engines 520 & 550		





BMW — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 BMW 345			FZ 1002
	323i	1999 – 2005	
	325i	1992 – 2005	
	328i	1996 – 2005	
	330xi	2003 – 2006	
	540i	1997 – 2003	
	740i	1995 – 2000	
	745i	2002 – 2004	
	X3	2005 – 2006	
	X5	2005 – 2006	
	Z4	2003 – 2003	
	Z8	2001	

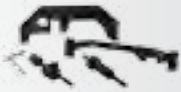






BMW — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 BMW 350			FZ 1002
	320i	2013	
	528i	2013	
	128i	2008 – 2013	
	135i	2008 – 2013	
	135is	2013	
	320i	2012 – 2013	
	323i	2006 – 2011	
	325Ci	2006	
	325i	2006	
	325xi	2006	
	328Cic	2007 – 2012	
	328i	2006 – 2010	
	328i	2007 – 2013	
	328xi	2007 – 2012	
	330Ci	2006	
	330i	2006	
	330xi	2006	
	335Cic	2007 – 2012	
	335d	2009 – 2011	
	335i	2007 – 2013	
	335is	2011 – 2013	
	335xi	2007 – 2012	
	525i	2004 – 2005	
	525i	2007	
	525xi	2007	
	528i	2009 – 2013	
	528xi	2008 – 2010	
	530i	2004 – 2007	
	530xi	2006 – 2007	
	535i	2008 – 2013	
	535xi	2008 – 2010	
	545i	2004 – 2005	
	550i	2006 – 2013	
	640i	2012 – 2013	
	645Ci	2004 – 2005	
	650i	2006 – 2013	
	750Li	2009 – 2013	
	X3	2007 – 2014	
	X5	2007 – 2014	
	Z4	2009 – 2013	



BMW — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 25		
	750Li 2009 – 2013	For twin-turbo intercooler coolant reservoir
BMW — ENGINE		
Engine Tool	Years	Specs
 BMW 0062		
	545i 2004 – 2005	
	745i 2004 – 2005	
	745Li 2004 – 2005	
	X5 2004 – 2006	
 BMW 3028		For [2011–newer] models w/ N55 motor, ask about #114285
	128i 2008 – 2012	
	135i 2008 – 2012	
	325i 2006	
	325xi 2006	
	328 Cic 2007 – 2012	
	328i 2007 – 2012	
	328xi 2007 – 2012	
	330i 2006	
	330xi 2006	
	335Cic 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	
	640i 2012	
	740i 2011 – 2012	
	740Li 2011 – 2012	
	X3 2007 – 2012	
	X5 2007 – 2012	
	X6 2008 – 2012	
	Z4 2006 – 2012	




BMW — ENGINE		
Engine Tool	Years	Specs
 BMW 400		
	323Ci 2000	
	323i 1998 – 2000	
	323is 1998 – 1999	
	325Ci 2001 – 2006	
	325i 2001 – 2005	
	325is 1992	
	325xi 2001 – 2005	
	328i 1996 – 2000	
	328is 1996 – 1999	
	330Ci 2001 – 2006	
	330i 2001 – 2005	
	330xi 2001 – 2005	
	525i 1991 – 2005	
	528i 1997 – 2000	
	530i 2001 – 2005	
	X3 2004 – 2006	
	X5 2001 – 2006	
	Z3 1996 – 2002	
	Z4 2002 – 2005	
 BMW 462 TU		
	540i 1999 – 2003	
	740i 1999 – 2001	
	740iL 1999 – 2001	
	X5 2000 – 2003	
 BMW 480		
	530i 1994 – 1995	
	740i 1993 – 1995	
	740i 1997 – 2001	
	740iL 1993 – 2001	
	840Ci 1995 – 1996	
	540i [M62] 1997 – 1998	
	540i [M62TU] 1999 – 2003	
	X5 2000 – 2003	





BMW — ENGINE		Engine Tool	Years	Specs		
 <p>BMW 520</p>						
		323Ci	2000			
		323i	1999 – 2000			
		325Ci	2001 – 2006			
		325i	2001 – 2005			
		325xi	2001 – 2005			
		328Ci	2000			
		328i	1999 – 2000			
		330Ci	2001 – 2006			
		330i	2001 – 2005			
		330xi	2001 – 2005			
		525i	2001 – 2005			
		528i	1999 – 2000			
		530i	2001 – 2005			
		X3	2006 – 2006			
		X5	2001 – 2006			
		Z3	1999 – 2002			
		Z4	2003 – 2005			
		 <p>BMW 5260</p>				
				128i	2008 – 2012	
325i	2006					
325xi	2006					
328 Cic	2007 – 2012					
328i	2007 – 2012					
328xi	2007 – 2012					
330i	2006					
330xi	2006					
525i	2006 – 2007					
525xi	2006 – 2007					
528i	2008 – 2010					
528xi	2008 – 2010					
530i	2006 – 2007					
530xi	2006 – 2007					
X3	2007 – 2010					
Z4	2006 – 2011					


BMW — ENGINE		Engine Tool	Years	Specs		
 <p>BMW 6208</p>		545i	2004 – 2005			
		550i	2006 – 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			
		<b>BMW — HEADBOLT SOCKET</b>				
		Headbolt Socket		Years	Specs	
 <p>BMW 11850</p>			T-50, 165mm long			
		N52, N54, N55 engines	2006 – 2012			
 <p>BMW 11860</p>			T-60, 195mm long.			
		N52, N54, N55 engines	2006 – 2012			
<b>BMW — OIL &amp; FLUID EXCHANGE</b>						
Oil Change Tool		Years	Specs			
 <p>2124</p>			24mm oil filter socket w/ 6 flats			
		545i	2004 – 2005			
		X5	2008			
 <p>2132</p>			32mm oil filter wrench w/ 6 flats			
		335d	2009 – 2011	2101		
 <p>OFAUD1000</p>			All models w/ 1/4-turn cap			
			1992–newer			
 <p>V 410</p>						
		750Li	2009 – 2013			

BUICK — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 32 A	#FZ 36		
Skylark		1994 – 1994	
 FZ 35 A	#FZ 36		
Roadmaster		1994 – 1996	
Skylark		1992 – 1998	



CADILLAC — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 32 A	#FZ 36		
Catera		1997 – 2001	
Fleetwood		1994 – 1995	
 FZ 35 A	#FZ 36		
CTS		2003	
Escalade		1999	
Fleetwood		1994 – 1996	
Seville		1998 – 2003	
 FZ 36			
Catera		1997 – 2001	
CTS		2003	
Escalade		1999	
Fleetwood		1994 – 1996	
Seville		1998 – 2003	




CADILLAC — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	Available in Set
 8021		Used for R & R of oil cooler lines	8110
CTS		2003 – 2004	

CADILLAC — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFGMRD08			
<p>&gt; MADE OF STRONG POLYCARBONATE</p> <p>&gt; NO MORE MESS</p> <p>&gt; THREADS &amp; SEALS JUST LIKE THE OIL CAP</p>			
CTS			


CESSNA — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFAUD1000			
<p>&gt; NO MORE MESS</p> <p>&gt; MADE IN USA</p>			
Teledyne Engines 520 & 550		–	





CHEVY — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	Available in Set
 8022		Used for R & R of fuel filters	8110
Suburban		2002 – 2004	
Tahoe		2002 – 2004	
 8027			
Siverado 2500 HD		2011	Duramax



CHEVY — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 128			
Metro		1989 – 1994	
Nova		1985 – 1988	
Prizm		1989 – 1992	
Spectrum		1985 – 1988	
Sprint		1985 – 1988	
Tracker		1989 – 1993	
 FZ 138			
Metro		1998	
Prizm		1998	
Tracker		1998	
 FZ 32 A	#FZ 36		
Cavalier		1995	



CHEVY — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 35 A	#FZ 36		
	Aveo	2008	
	Beretta	1992 – 1996	
	Camaro	1999	
	Caprice	1995 – 1996	
	Cavalier	1995 – 1999	
	Cobalt	2005 – 2007	
	Corsica	1992 – 1996	
	Corvette	1999 – 2011	
	Cruze	2011	
	Express	2010 – 2011	
	Express Van	2010 – 2011	
	Impala SS	1994 – 1996	
	Malibu	1997 – 1999	
	Metro	1999	
	Prizm	1999	
	Silverado (gas)	1999 – 2014	
	Silverado 1500	1999 – 2014	
	Silverado 2500	1999 – 2014	
	Suburban	2000 – 2014	
	Tahoe	1999 – 2014	
	Tracker	1999	
	Trailblazer	2001 – 2014	
	Van (diesel)	2007 – 2014	
	Van (gas)	2007 – 2014	

CHEVY — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 36			
	Beretta	1992 – 1996	
	Camaro	1999	
	Caprice	1994 – 1996	
	Cavalier	1995 – 1999	
	Cobalt	2005 – 2007	
	Corsica	1992 – 1996	
	Corvette	1999 – 2013	
	Impala SS	1994 – 1996	
	Malibu	1997 – 2013	
	Metro	1999	
	Prizm	1999	
	Silverado 1500	1999 – 2014	
	Silverado 2500	1999 – 2014	
	Suburban	2000 – 2014	
	Tahoe	1999 – 2014	
	Tracker	1999	
	Trailblazer	2001 – 2002	

CHEVY — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFGMRD08			
	Cobalt		
	Colorado		
	All Models	2000 – newer	All GM/Ford models w/ quarter turn caps
	Silverado	2013 – 2014	MUST Order #OFAAGM adapter in addition
	Tahoe		
	Trailblazer		
	Van		






CHRYSLER — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 128			
	Colt	1984 – 1992	
	Laser	1991 – 1998	
	Stealth	1991 – 1996	
	Talon	1991 – 1998	
 FZ 138			
	Colt	1993	
	Summit	1993 – 1995	











**#8110**  
**10-Pc. LINE DISCONNECT SET**


Includes: #8010, #8012, #8013, #8014, #8016, #8021, #8022, #8023, #8024, & #8026. The #8110 is the only set of disconnect tools that contain the #8023, #8024 & #8026.







CHRYSLER — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 2124		24mm oil filter socket w/ 6 flats	
	200	2011 – 2013	
	300	2011	
	300 C	2011 – 2013	
	Town & Country	2011 – 2013	
 CRY933		Instructions Included	
	300 C	2006 – 2013	
	Aspen	2008 – 2009	
	Pacifica	2007 – 2008	
	Sebring	2007 – 2013	
	Town & Country	2008 – 2013	
DODGE — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 55			
	Sprinter	2007 – 2013	
DODGE — HEADBOLT SOCKET			
Headbolt Socket	Years	Specs	
 SLG-T55 H 992			
	(PM) Caliber (2.4L)	2007 – newer	
DODGE — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	Available in Set
 8016			8110
	Ram Pickup w/ [V10] or Cummins turbo diesel	1995 – 2007	Used for R & R of Oil & Transmission Cooler Lines

DODGE — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 2124		24mm oil filter socket w/ 6 flats	
	Avenger	2011 – 2013	
	Challenger	2011 – 2013	
	Charger	2011 – 2013	
	Durango	2011 – 2013	
	Grand Caravan	2011 – 2013	
	Journey	2011 – 2013	
 2127		27mm oil filter wrench w/ 6 flats	2101
	Dart	2012 – 2013	
 CRY933		Instructions Included	
	Avenger	2007 – 2013	
	Caliber	2007 – 2012	
	Challenger	2008 – 2013	
	Charger	2006 – 2013	
	Dakota	2008 – 2011	
	Durango	2008 – 2013	
	Grand Caravan	2008 – 2013	
	Journey	2009 – 2013	
	Magnum	2006 – 2013	
	Nitro	2007 – 2011	
	Ram	2007 – 2013	
 M 0219		74mm oil filter wrench w/ 14 flats	2101, TOY 300
	Sprinter	2003 – 2012	
 M 0284			2101
	Sprinter (6-cyl. diesel)	2007 – 2013	
 OFAUD1000			
	sprinter	2006 – 2013	
 OFHON1033			
	Hemi Engines	2009 – 2013	
	Neon		
	Ram (Cummins Turbo Diesel)	2002 – 2002	

FIAT — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2127		27mm oil filter wrench w/ 6 flats	2101
500	2012 – 2013		
500c	2012 – 2013		


FORD — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 128			
Escort		1991 – 1999	
Expedition		2011 – 2011	
Explorer		1995 – 1999	
Explorer (Sport Trac)		2001 – 2004	
F150 (5.4L Triton)		2010 – 2010	
Festiva		1988 – 1993	
Ranger		2001 – 2011	
Tempo		1992 – 1994	
Thunderbird		1989 – 1997	
Topaz		1992 – 1994	
Villager		1993 – 1999	
Windstar		1995 – 1999	





 FZ 32 A	*FZ 36		
Crown Victoria		1994 – 2003	
E-Series Van		1995 – 2003	
Excursion		2000 – 2003	
Expedition		2003 – 2007	
Explorer		2002 – 2005	
F-Series Trucks		1995 – 2011	
Five Hundred		2005 – 2005	
Flex		2011 – 2011	
Focus		2006 – 2006	
Freestyle		2005 – 2005	
Mustang		1996 – 2012	
Sterling		2005 – 2005	
Taurus		1996 – 2006	
Thunderbird		1993 – 2003	
Windstar		2002 – 2003	




FORD — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 35 A	*FZ 36		
Escape		2011 – 2011	
Excursion		2002 – 2004	
F-150		2004 – 2005	
F250 Turbo Diesel		2002 – 2002	
Fusion		2010 – 2011	
Mustang		2011 – 2011	
Taurus		1996 – 2011	
 FZ 36	*FZ 35 A		
E-Series Van		1999 – 2003	
Expedition		2003 – 2006	
Explorer		2002 – 2004	
Taurus		1996 – 2006	
 FZ 47			
Fiesta		2011 – 2013	
Focus		2012 – 2013	
Fusion		2013 – 2013	





FORD — ENGINE			
Engine Tool	Years	Specs	
 FM 2330			
Escape	2005 – 2011		
Focus	2003 – 2011		
Fusion	2006 – 2011		
Ranger	2001 – 2011		




COMPARABLE: FACTORY TOOL NUMBERS 303-507 (CRANK PIN), 303-465 (CAM BAR) & 303-1061 (TURBO CAM PLATE).




FORD — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	Available in Set
 8010			8110
Mustang	1995 – 1996	Used for the removal of 1/4" return lines on the fuel pump	

FORD — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	Available in Set
 8012		For R & R of fuel filter & fuel lines	8110
Aerostar	1990 – 2006		
Bronco	1990 – 2006		
E-Series Van	1991 – 2006		
Explorer	1990 – 2006		
F-Series	1991 – 2006		
Ranger	1992 – 2006		
 8021		Used for R & R of oil cooler lines	8110
Expedition	2005		
Explorer	2003 – 2004		
F-150	2003 – 2008		
 8023		Used for R & R of transmission oil cooler lines	8110
Escape	2009		
Excursion w/ 6.0L Turbodiesel	2005		
Explorer (V8 engine)	2008		
F-250 w/ 6.0L Turbodiesel	2005		
F-350 w/ 6.0L Turbodiesel	2005		
 8024		Used for R & R of transmission oil cooler lines	8110
Explorer (Sport Trac)	2007 – 2007		
Ranger	2006		


FORD — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2136		36mm oil filter socket w/ 6 flats	2101
F250 Turbo Diesel	2004		
F350 Turbo Diesel	2004		
 M 0219		74mm oil filter wrench w/ 14 flats	2101, TOY 300
Escape	2006 – 2008		
Focus	2004 – 2007		
Fusion	2006 – 2008		


FORD — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFFM2012			
Escape 4 cylinder	2007 – 2013		
Explorer 2.0L Eco Boost	2012 – 2013		
Focus	2007 – 2013		
Fusion	2013		
 OFGMRD08			
E-Series Van	through 2011		
Edge	through 2011		
Escape V6	2008 – 2012		
Escape	2011		
Expedition	through 2011		
Explorer	through 2011		
F-150	2007 – 2013		
Flex			
Mustang	2005 – 2005		
Ranger	through 2011		
Taurus SHO	2011 – 2012		
 OFHON1033		Ford turbo-diesel 6.0L, 6.4L, 6.9L & 7.3L	
F-150 w/ 6.0L Turbo Diesel			



FREIGHTLINER — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 32 A	#FZ 36		
	Cascadia	2008	
	Columbia	2008	
 FZ 35 A	#FZ 36		
	Diesel Truck	2004	
 FZ 36			
	Diesel Truck	2004	



GMC — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 138			
	ES 250	1990 – 1991	
 FZ 35 A	*FZ 36		
	Envoy	2002	
	Sierra	2000 – 2011	
	Sierra 1500	1999 – 2014	
	Sierra 2500	1999 – 2014	
	Yukon	1999	
 FZ 36			
	Envoy	2002 – 2002	
	Sierra 1500	1999 – 2014	
	Sierra 2500	1999 – 2014	
	Yukon	1999	



GMC — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	
 8027			
	Sierra 2500 HD	2011	

GMC — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFGMRD08			
	Envoy	2002 – newer	
	Sierra	2002 – 2012	MUST Order *OFAAGM adapter in addition


HARLEY-DAVIDSON — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 HD 1474			74mm oil filter wrench w/ 14 flats. Machined window in *HD 1474 filter wrench clears crank sensor.
	FLHR	1980 – 1998	
	FLHT	1980 – 1998	
	FLHTP	1984 – 1995	
	FLT	1980 – 1998	
	FXR	1982 – 1994	
	FXRP	1984 – 1995	
	Softtails	1984 – 1998	
	XL	1984 – 2008	


HARLEY-DAVIDSON — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFHD35			For 35mm threaded caps
	Dyna	2007 – 2013	
	Touring	2007 – 2013	
 OFHD419			For Push-in style caps
	Touring	1999 – 2006	



HONDA — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 128			
	Accord	1990 – 1993	
	Civic	1988 – 1993	
 FZ 138			
	Accord	1994 – 2013	
	Accord Sport	2014	
	Civic	1994 – 2005	
	Civic	2013	
	Civic Hybrid	2004	
	CR-V	2014	
	Element	2008	
	Odyssey	1999 – 2003	
	Pilot	2003 – 2005	
	S 2000	2008	


HONDA — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFH33			Use in conj. w/ *OFHON1033 for Honda/Acura SUVs & Minivans
	Odyssey		w/ [V6]
	Pilot		w/ [V6]
	Ridgeline		w/ [V6]
 OFHON1033			Purchase *OFH33 in addition to use on Honda/Acura SUVs & Minivans
	Accord		
	Civic		
	Element		
	Fit	2008	
	S 2000		


HONDA / ACURA — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 <p>5063</p>		 <p>&gt; 63MM W/ 14 FLATS &gt; MADE IN U.S.A.</p>
All Models exc. S 2000	1994 – newer	w/ factory filter



HYUNDAI — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 <p>FZ 128</p>		
Elantra	2001	
All Models	1987 – 1999	



HYUNDAI — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 <p>2127</p>		27mm oil filter wrench w/ 6 flats	2101
Azera	2009 – 2012		
Equus	2011 – 2013		
Genesis	2008 – 2013		
Santa Fe	2009		
Sonata	2009		
Veracruz	2007 – 2013		
 <p>HY 8815</p>		88mm oil filter wrench w/ 15 flats, 22mm hex	
Azera	2005 – 2009		
Entourage	2006 – 2008		
Santa Fe	2006 – 2007		
Sonata	2005 – 2007		
Veracruz	2005 – 2007		



 <p>OFGMRD08</p>	 <p>&gt; MADE OF STRONG POLYCARBONATE &gt; NO MORE MESS &gt; THREADS &amp; SEALS JUST LIKE THE OIL CAP</p>		
Santa fe 4 cylinder	2001 – 2006		
Sonata	2002 – 2005		
Tucson	2004 – 2008		

HYUNDAI — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 <p>SU 8015</p>		80mm oil filter wrench w/ 15 flats
S Coupe	1992 – 1994	
Accent	1995 – 2013	
Elantra	1992 – 2013	
Excel	1986 – 1994	
Genesis Coupe 2.0L	2008 – 2012	
Santa Fe 2.4L	2000	
Santa Fe 2.7L	2000 – 2009	
Sonata	1992 – 2012	
Tiburon	2001 – 2008	
Tucson	2004 – 2012	
Veloster	2011 – 2013	
XG300	2000 – 2005	
XG350	2000 – 2005	



INFINITI — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 <p>5063</p>		63mm oil filter wrench w/ 14 flats
M35 & M45 (VQ35DE engine)	2004 – 2007	

INTERNATIONAL — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 <p>FZ 32 A</p>	*FZ 36		
	School Bus	1995 – 1996	
	w/ 466 Engine	1994 – 2002	
 <p>FZ 36</p>			
	w/ 466 Engine	1994 – 2002	

ISUZU — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 <p>FZ 128</p>		
All Models	1992 – 1997	
Rodeo (V6 engine)	2001	
 <p>FZ 138</p>		
All Models	1998 – 1999	

JAGUAR — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 35 A	FZ 36		
	S-Type	2000 – 2003	
 FZ 36			
	S-Type	2000 – 2003	

JAGUAR — OIL & FLUID EXCHANGE


Oil Change Tool	Years	Specs
 JA 19015		90mm oil filter wrench w/ 15 flats
	XF	2010 – 2013
	XFR	2010 – 2013
	XJ	2010 – 2013
	XJL	2010 – 2013
	XK	2010 – 2013
	XKR	2010 – 2013
 OFGMRD08		
	S-Type	2000 – 2009 w/ 3.0L
	X-Type	2000 – 2009 w/ 3.0L
	XF	2010 – 2013 w/ 5.0L [V8]
	XFR	2010 – 2013 w/ 5.0L [V8]
	XJ	2010 – 2013 w/ 5.0L [V8]
	XJL	2010 – 2013 w/ 5.0L [V8]
	XK	2010 – 2013 w/ 5.0L [V8]
	XKR	2010 – 2013 w/ 5.0L [V8]







OFHON1033

> MADE OF DURABLE ABS PLASTIC  
 > NO MORE MESS  
 > THREADS & SEALS JUST LIKE THE OIL CAP




JEEP — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 FZ 25			FZ 1002
	All Models	1987 – 1990	


JEEP — OIL & FLUID EXCHANGE

Oil Change Tool	Years	Specs	Available in Set
 2124		24mm oil filter socket w/ 6 flats	
	Grand Cherokee	2011 – 2013	
 CRY933			
	Commander	2006 – 2010	
	Compass	2007 – 2013	
	Grand Cherokee	2006 – 2013	
	Liberty	2006 – 2012	
	Patriot	2007 – 2013	
	Wrangler	2006 – 2012	
 M 0284		84mm oil filter wrench w/ 14 flats, 22mm hex	2101
	Grand Cherokee	2007 – 2008	
 OFHON1033			
	Wrangler	2001 – 2006	


KAWASAKI MOTORCYCLE — OIL & FLUID EXCHANGE





Oil Change Tool	Years	Specs
 5063		63mm oil filter wrench w/ 14 flats
	Kawasaki factory filter #16097-0003	



KENWORTH — COOLING SYSTEM & A/C




Tank Adapter	Years	Specs	Available in Set
 FZ 22			FZ 1002
	Truck	2007 – 2008	

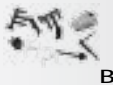
KIA — COOLING SYSTEM & A/C





Tank Adapter	Years	Specs
 FZ 128		
	Optima	2014

KIA — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2127		27mm oil filter wrench w/ 6 flats	2101
	Amanti 2007 – 2009		
	Borrego 2009 – 2012		
	Sedona 2007 – 2013		
	Sorento 2007 – 2009		
 HY 8815		88mm oil filter wrench w/ 15 flats, 22mm hex	
	Amanti 2007 – 2009		
	Sedona 2006 – 2009		
	Sorento 2007 – 2009		
 OFHD35			
	Forte 2013		
	Rio 2013 – 2014		
	Sorento 2011 – 2013		
	Soul 2013		
	Sportage 2014		
 SU 8015		80mm oil filter wrench w/ 15 flats	
	Amanti 2004 – 2006		
	Forte 2010 – 2012		
	Optima 2001 – 2012		
	Rio 2006 – 2012		
	Rondo 2007 – 2009		
	Sedona 2002 – 2005		
	Sorento 2003 – 2006		
	Sorento 2.4L 2011		
	Soul 2010 – 2012		
	Spectra 2004 – 2009		
	Sportage 2005 – 2012		


LAND ROVER — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 BMW 345			FZ 1002
	Discovery 1999 – 2004		
	Range Rover 1995 – 2004		
 FZ 25			FZ 1002
	Freelander 2002 – 2004		




LAND ROVER — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 32 A	"FZ 36		
	Freelander	2005	
	LR3	2005 – 2007	
	Range Rover Sport	2006	
 FZ 35 A	"FZ 36		
	Freelander	2002 – 2005	
	LR3	2005 – 2014	
	Range Rover Sport	2006 – 2014	
 FZ 47			
	LR2	2007 – 2008	


LAND ROVER — ENGINE			
Engine Tool	Years	Specs	
 BMW 462 TU			
	Range Rover	2003 – 2005	


LAND ROVER — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 JA 19015		90mm oil filter wrench w/ 15 flats	
	LR4	2010 – 2013	w/ 5.0L [V8]
	Range Rover	2010 – 2013	w/ 5.0L [V8]
	Range Rover Sport	2010 – 2013	w/ 5.0L [V8]
 OFFM2012			
	LR2	2014	w/ 2.0L T
	Range Rover Evoque	2012 – 2013	w/ 2.0L T
 OFGMRD08			
	LR4	2010 – 2013	w/ 5.0L [V8]
	Range Rover	2010 – 2013	w/ 5.0L [V8]
	Range Rover Sport	2010 – 2013	w/ 5.0L [V8]
 OFHON1033			
	Defender	2002	






LEXUS — AXLE & SUSPENSION		
Engine Tool	Years	Specs
 6500 X-39		39mm, 12-Point
LX 570	2007 – 2014	




LEXUS — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128		
LS 400	1990 – 1999	
LX 450	1996 – 1999	
LX 470	1996 – 1999	
 FZ 138		
ES 300	1992 – 1993	
GS 300	1993 – 1999	
GS 400	1998 – 1999	
RX 300	2000	
 FZ 148		
LS 460	2007 – 2013	



LEXUS — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 TOY 640		64mm oil filter wrench w/ 14 flats	TOY 300
CT 200h	2011 – 2013		
ES 350	2007 – 2013		
GS 300	2006		
GS 350	2007 – 2011		
GS 450h	2007 – 2011		
GS 460	2008 – 2011		
GX 460	2010 – 2013		
HS 250h	2010 – 2013		
IS 250	2006 – 2013		
IS 250C	2010 – 2013		
IS 350	2006 – 2013		
IS 350C	2010 – 2013		
IS F	2008 – 2013		
LS 460	2007 – 2013		
LS 600h	2008 – 2013		
LX 570	2008 – 2011		
RX 350	2007 – 2013		
RX 450h	2010 – 2013		


LEXUS — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 TOY 730		73mm oil filter wrench w/ 14 flats	TOY 300
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		






LINCOLN — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 32 A		
Mark VIII	1993 – 1998	
Navigator	1998 – 1998	
Towncar	1993 – 1999	
 FZ 36		
Navigator	1998 – 1998	
Towncar	1993 – 1999	




LOTUS — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 OFTOY1038		
Elise		w/ Toyota 2ZZ-GE engines
Exige		w/ Toyota 2ZZ-GE engines



MAZDA — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128	6 2004	
Mazda - Any Model	1985 - 1999	
Protege (auto)	2000 - 2001	
 FZ 138	5 2007	
Protege (manual)	2000 - 2001	
Protege 5	2003	
 FZ 47	3 2004 - 2013	
	6 2004 - 2009	




MAZDA — ENGINE		
Engine Tool	Years	Specs
 FM 2330	3 2004 - 2012	 <p>COMPARABLE: FACTORY TOOL NUMBERS 303-507 (CRANK PIN), 303-465 (CAM BAR) &amp; 303-1061 (TURBO CAM PLATE).</p>
	5 2006 - 2012	
	6 2003 - 2012	
CX-7	2007 - 2012	
Mazdaspeed 3	2007 - 2012	
Mazdaspeed 6	2006 - 2007	
MX-5 Miata	2006 - 2012	





MAZDA — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 2176		76mm oil filter wrench w/ 14 flats
	3 2010 - 2012	
	5 2012 - 2013	
	6 2010 - 2012	
CX-7	2010 - 2012	
Mazdaspeed 3	2010 - 2012	
MX-5 Miata	2006 - 2012	


MAZDA — OIL & FLUID EXCHANGE				
Oil Change Tool	Years	Specs	Available in Set	
 M 0219		74mm oil filter wrench w/ 14 flats	2101, TOY 300	
	3 2004 - 2009			
	5 2006 - 2011			
	6 2003 - 2009			
	CX-7 2007 - 2009			
	Mazdaspeed 3 2007 - 2009			
	Mazdaspeed 6 2006 - 2007			
 OFFM2012		 <p>&gt; MADE OF DURABLE ABS PLASTIC &gt; NO MORE MESS &gt; THREADS &amp; SEALS JUST LIKE THE OIL CAP</p>		
	3 2006 - 2013			
	CX-5 2013 - 2013			
	Mazdaspeed 3 2010 - 2013			
	Mazda 6 2003 - 2013			
	Mazdaspeed 6 2006 - 2007			
	MX-5 Miata 2006 - 2013			
 OFGMRD08				
	CX-9 2013			
 OFHON1033				
	2 2013			




MERCEDES — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 32 A		
	ML 320 1998 - 2005	
	ML 430 1998 - 2005	
 FZ 36		
	ML 320 1998 - 2005	
	ML 430 1998 - 2005	
 M 0349		
	All Models w/ Plastic Threaded Tank	exc. ML Series [1998-2005]
	C 240 2002 - 2013	
	C 300 2008 - 2013	


MERCEDES — ENGINE		
Engine Tool	Years	Specs
 M 1620		
(171) SLK 280	2005 – 2008	
(171) SLK 350	2005 – 2008	
(203) C 230	2002 – 2007	
(204) C 350	2002 – 2007	
(209) CLK 350	2003 – 2008	
(209) CLK 350 Cabriolet	2003 – 2008	
(209) CLK 550	2003 – 2008	
(209) CLK 550 Cabriolet	2003 – 2008	
(211) E 350	2003 – 2008	
(211) E 550	2003 – 2008	
(216) CL 550	2007 – 2008	
(219) CLS 550	2006 – 2008	
(221) S 550 L	2007 – 2008	
(221) S 550 L 4MATIC	2003 – 2008	
(230) SL 550	2003 – 2008	
211 E 350 4MATIC	2003 – 2008	
C 280	2002 – 2007	
C 280 4MATIC	2002 – 2007	
C 350	2002 – 2007	
C 350 4MATIC	2002 – 2007	
E 350 S (211)	2003 – 2008	
E 350 S (211) 4MATIC WAGON	2003 – 2008	
E 430 4MATIC (210)	1996 – 2003	
E 55 AMG (210)	1996 – 2003	
 M 3200 A		
CLK 320	1998 – 2003	
CLK 430	1998 – 2003	
E 320	1998 – 2005	
E 500	1998 – 2005	
ML 320	1998 – 2005	
ML 430	1998 – 2005	
S 420	1998 – 2005	
S 500	1998 – 2005	
SL 500	1998 – 2005	

MERCEDES — HEADBOLT SOCKET		
Headbolt Socket	Years	Specs
 H 992 SLG-T55		1/2" drive, T-55 Torx. Used for R & R of head bolts.
Motors M112, M113	1998 – 2005	
 S 3054 X-10		10mm, 12-point socket. Used for R & R of headbolts
Engines M601, M602, M603		
 S 3054 X-12		12mm, 12-point socket. Used for R & R of cylinder headbolts.
OM 615, 616, 617, M 102, M 103		




MERCEDES — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2127		27mm oil filter wrench w/ 6 flats	2101
C 230	2007 – 2012		
 M 0219		74mm oil filter wrench w/ 14 flats	2101, TOY 300
Sprinter	2003 – 2012	Gas motors	
 M 0284		84mm oil filter wrench w/ 14 flats, 22mm hex	2101
E 320 BLUETEC	2007 – 2009		
E 350 BLUETEC	2011 – 2013		
GL 320 BLUETEC	2009		
GL 350 BLUETEC	2010 – 2013		
ML 320 BLUETEC	2009		
ML 350 BLUETEC	2010 – 2013		
R 320 BLUETEC	2009		
R 350 BLUETEC	2010 – 2013		
S 350 BLUETEC	2012 – 2013		
Sprinter	2007 – 2013		
 OFAUD1000			
All Models	1992 – newer	w/ 1/4-Turn Oil Cap	



MERCEDES — SMALL SOCKETS, BITS & TORX		
Small Sockets, Bits & Torx Tool	Years	Specs
 H 2223 LG T-30		
All Models	1998 – 2002	


MERCURY — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128	Tracer 1991 – 1999	
 FZ 32 A	Cougar 1995	
	Crown Victoria 1993 – 2003	
	Grand Marquis 1993 – 2003	
	Sable 1996 – 2003	
 FZ 36	Crown Victoria 1993 – 2003	
	Grand Marquis 1993 – 2003	
	Sable 1996 – 2003	



MERCURY — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 OFGMRD08	Mountaineer 2005 – 2011	


MINI — BRAKES		
Engine Tool	Years	Specs
 MC 560	All Models 2007 – 2013	exc. "Countryman" models


MINI — ENGINE		
Engine Tool	Years	Specs
 MC 100	Cooper-S 2002 – 2006	
	S Convertible 2005 – 2008	
 MC 103	Cooper 2002 – 2006	
 MC 114	All Models 2007 – 2013	exc. [2007–2008] convertible




MINI — ENGINE		
Engine Tool	Years	Specs
 MC 1400	S Convertible 2009 – 2010	 <p>&gt; INCLUDES CAM &amp; CRANK TIMING TOOLS</p>
	S Clubman 2008 – 2010	
	S 2007 – 2010	
	JCW Convertible 2009 – 2012	
	JCW Clubman 2009 – 2012	
	JCW 2009 – 2012	
	JCW Roadster 2012	


MINI — LINE DISCONNECT TOOL		
Disconnect Tool	Years	Specs
 MC 814	JCW 2007 – 2013	
	S 2007 – 2013	
	S Clubman 2007 – 2013	
	S Convertible 2007 – 2013	
	S Countryman 2007 – 2013	


MINI — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2127	Cooper S 2007 – 2012	27mm oil filter wrench w/ 6 flats	2101
 2136	Cooper S 2002 – 2006	36mm oil filter socket w/ 6 flats	2101


MITSUBISHI — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128	3000 GT 1991 – 1998	
	Diamante 1992 – 1995	
	Galant 1985 – 1993	
	Mirage 1985 – 1992	
	Montero 1989 – 1998	
	Outlander 2004	



MITSUBISHI — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 138		
Diamante	1996 – 1998	
Eclipse Spyder	2002	
Galant	1994 – 2003	
Mirage	1993 – 1999	


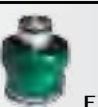
NISSAN — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128		
350Z	2004	
Altima	2006 – 2009	
Frontier	2004 – 2011	
Maxima	2000 – 2011	
Murano	2004	
Nissan / Infinity - Any Model	1987 – 2004	
Quest	2004	
Sentra	2000 – 2011	
Xterra	2004	
 FZ 32 A		
Armada	2005 – 2013	
Titan	2004 – 2013	
 FZ 36		
Titan	2004 – 2004	


NISSAN — HEADBOLT SOCKET		
Headbolt Socket	Years	Specs
 S 1054-10		1/2" drive, 10mm Allen Socket. Used for R & R of Cylinder Headbolts.
	Nissan models	


NISSAN — LINE DISCONNECT TOOL			
Disconnect Tool	Years	Specs	Available in Set
 8026		Used for disconnecting the fuel line from the fuel rail	8110
Altima	2004 – 2010		
Frontier	2005		



NISSAN — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 5063			63mm oil filter wrench w/ 14 flats
	350Z	2002 – 2009	
	370Z	2009 – 2013	
	Altima	1997 – 2013	
	Armada	2004 – 2013	
	Cube	2009 – 2013	
	Frontier	1997 – 2013	
	GT-R	2007 – 2013	
	Juke	2011 – 2013	
	Maxima	1994 – 2013	
	Models with VQ30DE engines.	1995 – 2007	
	Murano	2002 – 2013	
	Pathfinder	1995 – 2013	
	Pick-up	1997 – 2007	
	Quest	2006 – 2013	
	Rouge	2007 – 2013	
	Sentra	2007 – 2013	
	Titan	2003 – 2013	
	Versa	2006 – 2013	
	X-Trail (Canada)	2004 – 2007	
	Xterra	2002 – 2013	

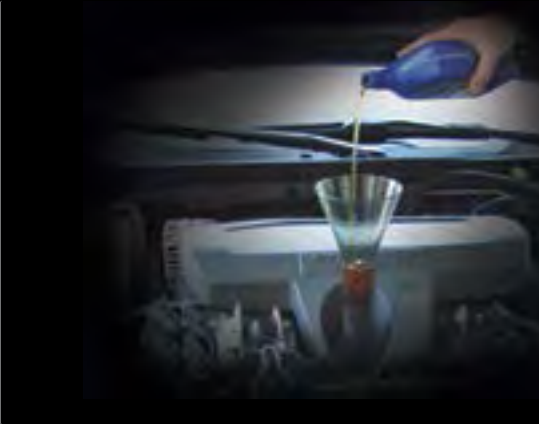
 OFHON1033	<p>&gt; MADE OF DURABLE ABS PLASTIC</p> <p>&gt; NO MORE MESS</p> <p>&gt; THREADS &amp; SEALS JUST LIKE THE OIL CAP</p>		
Most Models w/ Threaded Cap	through 2013		
Pathfinder	2013		
Sentra	2013		

OLDSMOBILE — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 32 A			
	Achieva	1994	
	Aurora	1997 – 1998	
 FZ 35 A			
	Achieva	1992 – 1998	
	Alero	1999	
	Aurora	1995 – 1999	
	Cutlass	1997 – 1998	
	Intrigue	1999 – 2000	



PONTIAC — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 35 A	FZ 36		
	G6	2005 – 2008	
	Grand Am	1992 – 1999	
	Grand Prix	2006	
	Sunfire	1995 – 1999	


PONTIAC — HEADBOLT SOCKET			
Headbolt Socket	Years	Specs	
 S 3054 X-10			
	Vibe	2003 – 2007	10mm, 12 point socket



PONTIAC — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFGMRD08			
	G6	2008	
	Grand Prix	1997 – 1997	
 OFTOY1038			
	Vibe		




> MADE OF STRONG  
 POLYCARBONATE  
 > NO MORE MESS  
 > THREADS & SEALS  
 JUST LIKE THE OIL CAP



PORSCHÉ — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 FZ 22			FZ 1002
	911	1999 – 2008	
	Boxster	2003	
 FZ 41			FZ 1002
	Cayenne	2004 – 2013	








PORSCHÉ — HEADBOLT SOCKET			
Headbolt Socket	Years	Specs	
 S 3054 X-12			
	All models w/ 12mm 12-point headbolts	1984 – 1997	



PORSCHÉ — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 M 0219			74mm oil filter wrench w/ 14 flats 2101, TOY 300
	911	1999 – 2008	
	Boxster	1997 – 2008	
	Caymen	2005 – 2008	
 OFAUD1000			
	Cayenne	2008 – 2013	
	Panamera	2010 – 2013	

> MADE IN USA  
 > NO MORE MESS






SAAB — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 FZ 25			FZ 1002
	900	1978 – 1993	
	9000	1986 – 1998	
 FZ 35 A			
	9_3	2003 – 2004	



SATURN — COOLING SYSTEM & A/C			
Tank Adapter	Cap Adapter	Years	Specs
 FZ 32 A	*FZ 36		
		LS 1996	
 FZ 35 A	*FZ 36		
		Ion 2005	
		All Models 1990 – 1999	
		Vue 2003	
 FZ 36			
		Ion 2005 – 2005	
		All Models 1987 – 1991	
		Vue 2003	
SATURN — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 2124		24mm oil filter socket w/ 6 flats	
	Astra 2008 – 2009		
 2132		32mm oil filter wrench w/ 6 flats	2101
	Ion 2005		
 OFGMRD08		 <ul style="list-style-type: none"> <li>&gt; MADE OF STRONG POLYCARBONATE</li> <li>&gt; NO MORE MESS</li> <li>&gt; THREADS &amp; SEALS JUST LIKE THE OIL CAP</li> </ul>	
	SL1		



SCION — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 138			
	FR-S 2013		
	tC 2008		
 FZ 148			
	tC 2011 – 2013		
	xB 2011 – 2013		

SCION — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	
 OFTOY1038		 <ul style="list-style-type: none"> <li>&gt; MADE OF DURABLE ABS PLASTIC</li> <li>&gt; NO MORE MESS</li> <li>&gt; THREADS &amp; SEALS JUST LIKE THE OIL CAP</li> </ul>	
	All models w/ threaded oil fill cap		
 SU 8015		80mm oil filter wrench w/ 15 flats	
	FR-S 2013		
 TOY 640		64mm oil filter wrench w/ 14 flats	TOY 300
	tC 2005 – 2013		
	xA 2004 – 2006		
	xB 2004 – 2013		
	xD 2008 – 2013		


STERLING — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 FZ 25			FZ 1002
	All Models 1987 – 1991		


SUBARU — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	
 FZ 128			
	Outback (4 Cyl.) 1999 – 2013		
	XV Crosstrek 2013 – 2014		
	Legacy (4 Cyl.) 1999 – 2013		
	Impreza WRX 2002 – 2014		
 FZ 138			
	BRZ 2013		
	Legacy (6 Cyl.) 2005 – 2013		
	Outback (6 Cyl.) 2005 – 2013		


SUBARU — ENGINE		
Engine Tool	Years	Specs
 SU 200T		
Impreza WRX w/ 2.0 Turbo	2002 – 2005	
 SU 3625		
2.5L	2005 – 2013	



SUBARU — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 OFSU1042		
All Models (except Tribeca)	2002 – 2012	
 SU 8015		80mm oil filter wrench w/ 15 flats
BRZ	2013	


SUZUKI — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128		
with 16mm filler neck	1983 – 1995	

SUZUKI MOTORCYCLE — OIL & FLUID EXCHANGE		
Oil Change Tool	Years	Specs
 5040		66.5mm oil filter wrench w/14 flats
All Models	1990 – 2009	w/ factory filer #16510-03G00



TOYOTA — AXLE & SUSPENSION		
Engine Tool	Years	Specs
 6500 X-39		
Land Cruiser	2008 – 2014	
Sequoia	2008 – 2014	
Tundra	2008 – 2014	



TOYOTA — HEADBOLT SOCKET		
Headbolt Socket	Years	Specs
 S 3054 X-10		10mm, 12-point socket. Used for R & R of headbolts
Matrix	2003 – 2007	




TOYOTA — HEADBOLT SOCKET		
Headbolt Socket	Years	Specs
 S 3054 X-12		12mm, 12-point socket. Used for R & R of cylinder headbolts.
4Runner (V6)	through 2003	
Celica	2000 – 2001	
Highlander (2AZ-FE)	2001 – 2006	
 TOY 105		#8 Bi-Hex
Prius	2001 – 2009	
Yaris	2006 – 2009	

TOYOTA — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 128		
4 Runner	1986 – 1995	
Avalon	1995 – 2003	
Camry (v6)	2002 – 2005	
Celica	1983 – 1989	
Corolla	1983 – 1992	
Cressida	1985 – 1992	
Land Cruiser	1987 – 2002	
MR2 (Spyder)	1985 – 1995	
Pickup	1983 – 1999	
Previa	1989 – 1997	
Sienna	1998 – 2003	
Solara	1999 – 2002	
Starlet	1983 – 1984	
Supra	1986 – 1992	
T100	1995 – 1998	
Tacoma	2000 – 2002	
Terrel	1983 – 1990	




TOYOTA — COOLING SYSTEM & A/C		
Tank Adapter	Years	Specs
 FZ 138		
4Runner	2001 – 2005	
Avalon	2011	
Camry	1992 – 1993	
Camry (4-cylinder)	1994 – 2007	
Camry (V6, A/T)	2013 – 2014	
Celica	1990 – 1998	
Corolla	1993 – 2014	
Echo	2000 – 2003	
FJ Cruiser	2007 – 2011	
Highlander	2001 – 2014	
Matrix	2003	
Paseo	1992 – 1999	
RAV4	1996 – 2003	
Sequoia	2001 – 2003	
Sienna	2010	
Supra	1994 – 1997	
Supra (turbo)	1990 – 1992	
Tacoma	2006 – 2014	
Tercel	1991 – 1999	
Tundra	2000 – 2002	
Venza	2011	
Yaris	2011	
 FZ 148		
Highlander	2006 – 2013	Hybrid motor
Prius	2001 – 2013	Hybrid motor
RAV4	2006 – 2013	


TOYOTA — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 ATFTOY118			ATF 1100-5, ATF 1300-5, ATF 1018-5 TOY
4 Runner	2005 – 2010		
FJ Cruiser	2007 – 2010		
Sequoia	2005 – 2010		
Tacoma	2005 – 2010		
Tundra	2005 – 2010		

TOYOTA — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 M 0219		74mm oil filter wrench w/ 14 flats	2101, TOY 300
4 Runner	1985 – 2002		
Avalon	1995 – 2004		
Camry (V6)	1988 – 2006		
Celica	1983 – 1985		
Cressida	1981 – 1992		
Highlander	2001 – 2008		
Pickup	1977 – 1984		
Previa	1991 – 1997		
Sienna	1998 – 2007		
Solara V6	1999 – 2008		
Supra	1979 – 1998		
T100	1993 – 1998		
Tacoma	1995 – 2012		
Tundra	2000 – 2004		
 OFT38		Use in conj. w/ *OFTOY1038	
Prius	All		
Yaris	All		
 TOY 640		64mm oil filter wrench w/ 14 flats	TOY 300
4 Runner	2010 – 2013		
Avalon	2005 – 2012		
Camry	1983 – 2013		
Celica	1986 – 2005		
Corolla	1983 – 2013		
Echo	2000 – 2005		
FJ Cruiser	2010 – 2013		
Highlander	2001 – 2013	4-Cyl. & 3.5L [V6]	
Matrix	2003 – 2013		
MR2	1985 – 2005		
Paseo	1992 – 1997		
Prius	2001 – 2013		
RAV4	1996 – 2013		
Sequoia	2009 – 2013		
Sienna	2007 – 2013		
Solara	1999 – 2001		
Tercel	1980 – 1998		
Tundra	2007 – 2013		
Venza	2009 – 2013		
Yaris	2006 – 2013		


**TOYOTA — OIL & FLUID EXCHANGE**

Oil Change Tool	Years	Specs	Available in Set
 TOY 730		73mm oil filter wrench w/ 14 flats	TOY 300
4 Runner 4.0L & 4.7L	2003 – 2012		
FJ Cruiser	2007 – 2009		
Land Cruiser	1975 – 2008		
Pickup (diesel)	1981 – 1985		
Sequoia	2001 – 2009		
Tacoma 4.0L	2005 – 2013		
Tundra	2000 – 2012	4.0L & 4.7L	



**TOYOTA — TRANSMISSION & DRIVETRAIN**

Oil Change Tool	Years	Specs
 S 440-27		
4 Runner	1996 – 2002	
Tacoma	1996 – 2002	


**TOYOTA / LEXUS — HEADBOLT SOCKET**

Headbolt Socket	Years	Specs
 S 3054 X-12		12mm, 12-point socket. Used for R & R of cylinder headbolts.
4-cyl., 4v w/ VVT	All	2ZZ engines
4Runner [V6]	2003	
Celica	2000–2001	
Highlander	2001–2006	w/ 2AZ-FE engine


**TOYOTA / LEXUS — OIL & FLUID EXCHANGE**

Oil Change Tool	Years	Specs
 OFTOY1001		
3.0L & 3.3L [V6] w/ 1/4 Turn Oil Cap		
 OFTOY1038		For Prius & Yaris, purchase *OFT38 in addition
All models that have threaded oil fill cap		




**TRUCKS — COOLING SYSTEM & A/C**

Tank Adapter	Years	Specs	Available in Set
 FZ 22			FZ 1002
Kenworth	2007 – 2008		


**VOLVO — BODY, RADIO & ELECTRICAL**

Oil Change Tool	Years	Specs
 V 722		
XC70	2002 – 2007	


**VOLVO & VOLVO TRUCKS — COOLING SYSTEM & A/C**




Tank Adapter	Years	Specs	Available in Set
 FZ 22			FZ 1002
670	2005	48 x 3 threads	
VN 430	2005	48 x 3 threads	
 FZ 25			FZ 1002
Passenger Vehicles (w/ threaded neck)	1978 – 2006		
S40	2001 – 2004		
S60	2001 – 2004		
Volvo Trucks (w/ 47mm x 3mm threads on secondary filler neck)	1978 – 2006		
XC70	2004 – 2007		
XC90	2004 – 2013		
 FZ 47			
S40	2004 – 2010		
S80	2008 – 2012		
V50	2005 – 2010		
XC60	2010 – 2013		
XC70	2010 – 2013		


**VOLVO — ENGINE**


Engine Tool	Years	Specs
 V 500		For all motor applications, see page 75
S40	1994 – 2007	
S80	2000 – 2006	
V50	1994 – 2007	
V70	2000 – 2007	
XC70	2000 – 2006	
XC90	2003 – 2007	


**VOLVO — OIL & FLUID EXCHANGE**

Oil Change Tool	Years	Specs	Available in Set
 V 410		86.5mm oil filter wrench w/ 16 flats	2101
All Models (exc. 2005 40 & 50 Series)	1999 – 2007		

VW / AUDI — AXLE & SUSPENSION		
Engine Tool	Years	Specs
 6500 X-18		
	Golf	2006 – 2013
	Jetta	2006 – 2013
 6500 X-24		
	Golf	2013
	Jetta	2013
	New Beetle	2013
	Passat	2013
	Tiguan	2009 – 2013
 6500 X-30		
	Cabrio	1999 – 2005
	Golf	1999 – 2005
	Jetta	1999 – 2005
	New Beetle	1999 – 2005

VW / AUDI — BRAKES		
Engine Tool	Years	Specs
 S 54 X-14		
	Jetta	2006 – 2010 For Rear Brake Caliper Bracker
	Passat	2006 – 2010 For Rear Brake Caliper Bracker

VW / AUDI — COOLING SYSTEM & A/C			
Tank Adapter	Years	Specs	Available in Set
 FZ 22			FZ 1002
	A8	1999 – 2001	
	Models w/ male threads on exp. tank	1975 – 1993	
	S8	1999 – 2001	

VW / AUDI — ENGINE		
Engine Tool	Years	Specs
 T 40196		
	A4	2009 – 2013
	A5	2009 – 2011
	Q5	2009 – 2013









VW 20T

FOR [2009-NEWER] VW/AUDI MODELS W/ 2.0L (TURBO). INCLUDES: "T 40267 LOCKING CLIPS, "VW 10352 ASSEMBLY TOOL, "T 40271 CAMSHAFT CLAMPS, "T 10355 CRANK COUNTER HOLD TOOL, "T 40196 DRIFTS FOR CAMSHAFT PIECES, "T 10368 CRANKSHAFT THRUST PIECES.
















VW/Audi models w/ 2.0L Turbo 2009 – newer



VW / AUDI		ENGINE	
Engine Tool	Years	Specs	
 3243		Used in conj. w/ #3242	
	90	1993 – 1995	
	100	1992 – 1994	
	A4	1996 – 1997	
	A6	1995 – 1998	
	Cabriolet	1994 – 1998	
 3268			
	Eurovan	1997 – 2000	
	GTI	1995 – 1999	
	Jetta	1994 – 2002	
	Passat	1995 – 1997	
 3299 A			
	A4	2002 – 2005	
	A6	2002 – 2004	
 3341			
	A6	2005 – 2009	
	A8	1997 – 1999	
 3369			
	A4	1998 – 2000	
	A6	1998 – 2000	
	Passat	1998 – 2000	
 3391		Used in conj. w/ #3242	
	A4	1998 – 2001	
	A4 Avant	1998 – 2001	
	A6	1998 – 2001	
	A6 Avant	1999 – 2001	
	Allroad Quattro	2001 – 2005	
	Passat	1998 – 2005	
	S4	2000 – 2002	
	S4 Avant	2001 – 2002	





VW / AUDI		ENGINE	
Engine Tool	Years	Specs	
 6800 TDI			
	VW TDI & Pumpe Duse Engines	1999 – 2011	
		For [2009–2011] models, you need to order one extra #3359 TDI Lock Pin	
 T 10035			
	A4	2005 – 2009	
	A5	2008 – 2009	
	A6	2005 – 2009	
	Allroad Quattro	2003 – 2005	
	R8	2008 – 2009	
	RS4	2008 – 2009	
	S4	2004 – 2009	
 T 10068 A			
	A3	2006 – 2009	
	A8	2005 – 2009	
	A8 L	2005 – 2009	
	CC	2009	
	EOS	2007 – 2009	
	Eurovan	2001 – 2003	
	Golf	2004	
	GTI	2002 – 2006	
	Jetta	2002 – 2005	
	Passat	2002 – 2009	
	Phaeton	2004 – 2006	
	Q7	2007 – 2009	
	R32	2004 – 2008	
	Touareg	2004 – 2009	
	TT	2004 – 2009	






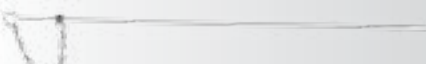



VW / AUDI — ENGINE		
Engine Tool	Years	Specs
 T 10100		
	Jetta 2005 – 2007	
 T 10252		
	A3 2006 – 2008	
	A4 2005 – 2008	
	EOS 2007 – 2008	
	GTI 2006 – 2008	
	Jetta 2006 – 2008	
	Passat 2006 – 2008	
	TT 2008 – 2009	
 T 40005		Use in conj. w/ #3242
	A8 2000 – 2003	
	A8L 2004 – 2006	
	S8 2001 – 2003	
	Touareg 2004 – 2007	
 T 40011		See #T 4306 set on pg. 81
	A6 2002 – 2004	
 T 40026		See #T 4306 set on pg. 81
	A4 2002 – 2005	
	A6 2002 – 2004	
 T 40028		See #T 4306 set on pg. 81
	A6 2002 – 2004	
 T 40030		See #T 4306 set on pg. 81
	A6 2002 – 2004	
 T 40046		May Also Require #T 40047 for application
	A6 2005 – 2007	
	Allroad Quattro 2003 – 2005	
	S4 2004 – 2009	

VW / AUDI — ENGINE		
Engine Tool	Years	Specs
 T 40047		May Also Require #T 40047 for application
	A6 2005 – 2007	
	Allroad Quattro 2003 – 2005	
	S4 2004 – 2009	
 T 40058		
	A4 2005 – 2009	
	A6 2005 – 2009	
	A8 2007 – 2009	
	Q7 2007 – 2009	
	RS4 2007 – 2008	
	S5 2008 – 2009	
	S6 2007 – 2009	
	S8 2007 – 2009	
	Touareg 2007 – 2009	
 T 40069		Use in conj. w/ #T 40070
	A4 2005 – 2009	
	A5 2008 – 2009	
	A6 2009 – 2011	
	Jetta 2005 – 2012	
	New Beetle 2006 – 2010	
	Rabbit 2006 – 2009	
 T 40070		Use in conj. w/ #T 40069
	A4 2005 – 2009	
	A6 2005 – 2009	
	A8 2007 – 2009	
	Jetta 2005 – 2012	
	New Beetle 2006 – 2010	
	Q7 2007 – 2009	
	R8 2008 – 2009	
	Rabbit 2006 – 2009	
	RS4 2007 – 2008	
	S5 2008 – 2009	
	S6 2007 – 2009	
	S8 2007 – 2009	
	Touareg 2007 – 2009	

VW / AUDI — ENGINE		
Engine Tool	Years	Specs
 T 40071		
	A4 2005 – 2009	
	A6 2005 – 2009	
	A8 2007 – 2009	
	Q7 2007 – 2009	
	R8 2008 – 2009	
	RS4 2007 – 2008	
	S5 2008 – 2009	
	S6 2007 – 2009	
	S8 2007 – 2009	
	Touareg 2007 – 2009	
 T 4306		
	A4 2002 – 2005	
	A6 2002 – 2004	


VW / AUDI — HEADBOLT SOCKET		
Headbolt Socket	Years	Specs
 3462		1/2" drive, #10 polydrive socket for head bolts. Comparable: factory #3452 A & #T 10070
	1998 – newer	
 H 2579-9		Fits some after-market headbolts
	1998 – 2014	
 S 1054-10		
	Touareg 2007 – 2009	
 S 3054 X-10		10mm, 12-point socket. Used for R & R of cylinder headbolts.
	All VW/Audi	w/ 10mm, 12-Point Headbolts

VW / AUDI — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2132		32mm oil filter wrench w/ 6 flats	2101
	Golf 2011 – 2013		
	Jetta 2011 – 2013		
	Passat 2012 – 2013		
	Q7 2007 – 2010		


VW / AUDI — OIL & FLUID EXCHANGE			
Oil Change Tool	Years	Specs	Available in Set
 2136		36mm oil filter socket w/ 6 flats	2101
	Q7 2007 – 2010		
	R32 2004		
 ATF 10H			
	Passat 2009 – 2011		
	Tiguan 2009 – 2011		
	Tiguan 2009 – 2011		
 AU 40178		Instructions Included	
	A4 2009 – 2013		
	A5 2009 – 2013		
	A6 2009 – 2013		
	S4 2010 – 2012		
 M 0219		74mm oil filter wrench w/ 14 flats	2101, TOY 300
	A4 2009 – 2013		
	CC 2009 – 2013		
	EOS 2009 – 2013		
	Golf 1999 – 2005		
	GTI 2008		
	Jetta 2005 – 2013		
	New Beetle 1999 – 2011		
	Passat 2009 – 2013		
	Tiguan 2009 – 2013		
 OFAUD1000			
1.8L, 1.9 TDI, 2.0T, 2.8, 3.0, 3.2, 3.6 & 4.2L	through 2014 (exc. 2014 2.0L gas)		For 2014 VW 2.0T gas, see #OFVW2013
 OFVW2013			
VW 2.0L Turbo engine	2014		




**VW / AUDI — RADIO REMOVAL KEYS**

Oil Change Tool	Years	Specs
 3316		For radios w/ vertical slots
Golf	1999 – 2005	
Jetta	1999 – 2005	
Passat	1998 – 2005	

**VW / AUDI — SMALL SOCKETS, BITS & TORX**

Small Sockets, Bits & Torx Tool	Years	Specs
 H 2223 LG T-30		For R & R of driver's side airbag
VW/Audi - Any Model	1994 – 2002	

**YAMAHA MOTORCYCLE — OIL & FLUID EXCHANGE**

Oil Change Tool	Years	Specs
 5063		63mm oil filter wrench w/ 14 flats
Yamaha Motorcycle	1990 – 2009	Fits filter# 5GH-13440-00 & HF303

**#2101**

**7-Pc. OIL FILTER WRENCH SOCKET SET**

Contains oil filter wrench sockets for many domestic & foreign applications. Set covers all **MERCEDES** applications. The 27mm, 32mm & 36mm hex sizes cover **VW/AUDI, BMW**, newer Mercedes 4-cyl. engines, **SATURN & GM** 2.2 L Ecotec engines. Covers **FORD** Escape Hybrid & Ford OEM #FL 910 & #FL 793. The four cup-style wrenches cover many VW, BMW, **TOYOTA** & **MAZDA** 3. Also covers **DODGE** Sprinter & **JEEP** 3.0L CRD engines & [1999-2013] **VOLVO**.



IN 2013, AST LEAPT FARTHER INTO THE MULTIMEDIA WORLD. ALONG WITH A PROFESSIONAL FILM CREW & NEIGHBORLY PARTICIPATION FROM SOME LOCAL REPAIR & MACHINE SHOPS, WE SHOT OUR FIRST COMMERCIALS TO BE AIRED ONLINE & ON VELOCITY™ CHANNEL. FOR 4 DAYS, WE FILMED THE VARIOUS MANUFACTURING PROCESSES AST TOOLS GO THROUGH BEFORE THEY REACH THE MARKET.

A VERY SPECIAL THANKS TO OUR CALIFORNIA CREW AS WELL AS MODERN SPECIALISTS IN BOULDER AND J&S AUTOMOTIVE IN BOULDER. WITHOUT GOOD CUSTOMERS LIKE THESE, WE COULDN'T HAVE MADE IT HAPPEN!



30 T-7	14, 31	3000 5-POINT TAMPERPROOF SOCKETS	30	6500 T-80	18, 60	ATF 1002-5 BASIC	20, 32, 44, 53, 67
60	31			6500 X-18	60, 76	ATF 1004-5 MB	41, 52
70	31	3000 HEX BIT SOCKETS	30	6500 X-24	60, 76	ATF 1008-5 EURO	54, 74
80	31			6500 X-30	60, 76	ATF 1018 TOY	54, 71
100	31	3000 PHILLIPS BLADE SOCKETS	30	6500 X-32	60, 76	ATF 101003	52
100-30 A	18, 38	3000 STRAIGHT BLADE SOCKETS	30	6500 X-36	18, 60	ATF 101005	52
120	31			6500 X-39	60, 70	ATF 101010	52
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200-1/4	31			6500-17	60, 76	ATF 1100-5	55
200-10	31	3000-4 K	7, 30, 64	6506	6, 60, 76	ATF 1300-5	4, 53
200-12	31	3000-6 K	7, 30, 64	6632	78	ATF 16 DSG	54, 84
200-3/8	31	3004X	7, 30, 64	6700	8, 78	ATF 17 CVT	54, 84
200-5/16	31	3101	7, 19, 23, 38, 77	6800TDI	8, 81	ATF SU100	32, 44, 55, 69
200-5/8	31	3200	6, 22, 77	7200	8, 24, 28, 73, 75, 80	ATFTOY118	55, 71
200-6	31	3200 T-20	38, 77	7200-4	8, 24, 28	AU 40178	57, 87
200-7	20, 31	3200 T-30	38, 77	8007	35	BM 1276	21, 47, 51
200-7/16	31	3200 T-6	77	8010	25, 29	BMW 0062	20
200-8	31	3200 X-4	77	8012	25, 29	BMW 010	19, 23
200-9/16	31	3200 X-8	77	8013	25, 29	BMW 012	16, 62
201	5, 31	3242	79	8014	25, 29	BMW 025	19, 23
201-7	5, 20, 31	3243	79	8016	25, 29	BMW 050	19, 23
202	5, 31	3268	79	8021	25, 29	BMW 060	20, 62
203	5, 31	3299 A	79	8022	25, 29	BMW 140	18
250	31	3307	84	8023	25, 29	BMW 190	18
312	31	3316	23, 77	8024	25, 29	BMW 323	20, 22, 42
375	31	3344 A	23, 76	8026	29, 48, 72	BMW 345	21
437	31	3359	79	8027	25, 29	BMW 350	21
500	31	3366	79	8028	28, 69	BMW 377	19, 61
562	31	3369	79	8032	19	BMW 400	16
625	31	3391	79	8036	24, 41	BMW 400-1	16
1201 A	28, 86	3424	76	8110	13, 25, 29	BMW 432	16, 35, 62
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