



ASTTOOL.COM

COLORADO

USA

ASSENMACHER SPECIALTY TOOLS



2012 TOOL CATALOG

2012 TOOL CATALOG

SPECIALTY SOCKET SETS OIL CHANGE TOOLS LINE DISCONNECT TOOLS COOLING SYSTEM ADAPTERS STUD REMOVERS VW/AUDI TOOLS SPECIALTY APPLICATION TOOLS

#### WARRANTY INFORMATION

Warranty durations run from the date of documented purchase (the day of purchase by the end user).

All returns must be accompanied by original sales receipt. Call us first for a return goods authorization number.

AST shall not be liable for any injury, loss or damage, consequential or special, arising out of the use of, or the inability to use the product.

AST Products carry a 5-year warranty w/ the exceptions stipulated below:

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

Hazet & Stahlwille products carry a one year warranty.

#### SETS & KITS

If only one item is defective, that item will be replaced, not the entire set. If only a part on a tool is defective, (i.e. gasket, rubber band, etc.) only the part will be replaced.

COOLING SYSTEM ADAPTERS With plastic tester attachment piece may be repairable for a \$25 fee.

DEFECTIVE PRODUCTS
Should be sent freight prepaid to AST for inspection. Warranty is handled by replacing the defective item, or the defective part on the item. AST will only cover UPS/Ground return shipping, to the customer, for warranty items.

#### STUD REMOVERS

Produced between 2002–2012 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 2002–2012, we will send out internal replacement parts at no charge. Internal Stud Remover parts are replaceable. The table (below) indicates replacement numbers for the internal parts.



# ASSENMACHER SPECIALTY TOOLS

6440 ODELL PLACE, BOULDER,

CO 80301, USA
1-800-525-2943
303-530-4720 (fax)
ASTTOOL.COM
SALES@ASTTOOL.COM





# DISTRIBUTOR INFORMATION

As an industry leader in the specialty tool market, the AST name is recognized in automotive repair shops nationwide.

Looking for a local AST distributor in your area? Please let us know.



# ELECTRONIC CATALOG

For updated AST product information throughout the year, please visit ASTtool.com or request a catalog on CD. Our CD Catalog is the best solution for accessing our database of tools when you're in the truck, on the go, & need quick & easy access to our tools & their applications.



#### MADE IN U.S.A.

Many products from AST are made in U.S.A. including our cooling system adapters, engine oil funnels & 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 to meet their daily needs. Independence as a society requires the skill, ability & knowledge to make things ourselves.

#### INTERNAL REPLACEMENT PARTS FOR STUD REMOVERS

Stud Remover Size	Contains All Internal Parts	и
6mm	60	A
8mm	80	fo
10mm	100	re go
12mm	120	a
1/4"	250	A
5/16"	312	6
3/8"	375	В
7/16"	437	U
1/2"	500	In
9/16"	562	A
5/8"	625	di

#### Varranty Policy

AST tools are warranteed 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:

Assenmacher Specialty Tools, Inc. 6440 Odell Place Boulder, CO 80301

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.





#### BUILT TO LAST

At Assenmacher Specialty Tools, we carefully hand inspect our products for quality & durability. We provide the technician dependable, longlasting tools & we stand behind our products—that's our philosophy.



#### ORDERING

AST reserves the right to modify pricing, terms of sale & product offerings, i.e. availability, design or construction, without notice. Product improvement is ongoing & descriptions & pictures may not always correspond precisely w/ the latest technical data. We reserve the right to refuse a sale. Orders may be referred to current AST distributors.

#### MINIMUM ORDER

Each shipment invoiced must meet a \*15.00 net minimum order requirement, excluding shipping charges.

#### SHIPMENT

Shipments will normally be sent via UPS Ground. Other shipping options are available upon request.

#### CLAIMS

All claims must be communicated to the shipper (Assenmacher Specialty Tools, Inc.) within 48 HOURS of receipt of package.

#### RETURNED GOODS

Any item returned to AST will only be accepted if accompanied by a RETURN GOODS AUTHORIZATION NUMBER provided by AST.

NOTE THAT AST TOOLS ARE DESIGNED "FOR HAND USE ONLY!"\*\*
\*\*AST impact sockets w/ BLACK FINISH are the exception.

#### THE USE OF IMPACT TOOLS WILI AUTOMATICALLY VOID WARRANTY

Warranty durations run from the date of documented purchase (the day of purchase by the end user).

All returns must be accompanied by original sales receipt.

#### ASTTOOL.COM

Find the most current product information online at ASTtool.com. Easily search AST tools, check applications & much more. We also list tools on our web site that aren't in this catalog. Those tools are usually special order, so if you can't find what you're looking for in the printed catalog, check ASTtool.com, maybe we'll have it there.



#### TEST, TEST, TEST

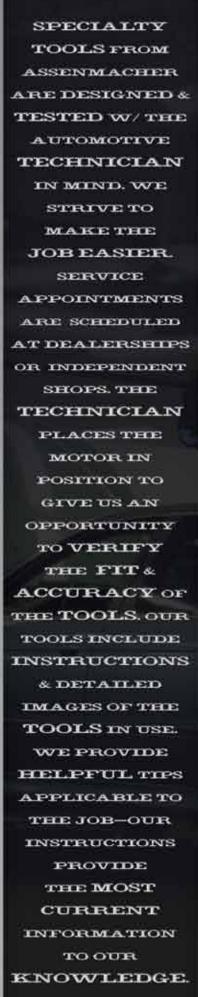
We take pride in applications. Whether you use our website or our 800 number to inquire about our tools, or their applications, we take pride in knowing that we've tested the applications that we list, nothing more, nothing less.



#### ABOUT OUR COMPANY

We manufacture & distribute a full line of Specialty Tools, Cooling System Adapters, Oil Change Products, Cam Alignment Tools & Disconnect Tools for Asian, Domestic & European vehicles. Located in Boulder, Colorado, AST was founded in 1978 by Gerhard Assenmacher & has remained at the forefront of independently owned tool companies since our beginning. Many decades of hands-on industry experience is what makes our team stand above the rest. We build relationships, we know our customers and we know our products. We take pride in the fact that our customers can simply pick up the phone & we are there to help-that's the personal service you'll find at AST.







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Exact product specifications may vary depending upon date of purchase & / or date of manufacture. In order to provide a cost efficient tool w/ superior quality, AST manufactures many tools in the U.S., some overseas a some are imported from Germany. Please visit ASTtool.com for the most up to date descriptions of our tools.

Printed in the U.S.A. July, 2011

**\*V** 500 VOLVO CAM/ CRANKSHAFT ALIGNMENT SET Used to align the camshafts & crankshafts on all In-line 4, 5 & 6 cyl. twin cam motors through 2007 (exc. 3.2L). Also used to align the camshafts w/ the cam cover. Comparable to Volvo tool numbers: 9995451, 9995452, 9995453 & 9995454

Applicable to 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, B5234T6, B6304FS2, GB5252S, B4204S2, B4204T, B6254FS, B4184S, B5234T6, B 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

VW/AUDI AXLE

NUTSET

& rear axle bolts (AWD)

front & rear axle nuts

#6500-14

#6500 X-30

#6500





9-PC. DRIVE LINE

FILLER SYSTEM

Comparable to VW #VAS 6262/2

\*ATF 16 DSG: Fits DSG Transmissions. 24mm x 1.5 #ATF 17 CVT: Fits CVT Transmissions. 22mm x 1.5

adapter for 722.9 Automatic

Transmissions. Applicable to

the following chassis w/ 722.9

transmissions:164, 171, 203,

204, 209, 211, 215, 216, 219,

(front/rear differentials & transfer cases)

Comparable to VW #VAG 1924/1 adapter

\*ATF 101: 1/8-27 NPT Ford Adapter Plug

**\*ATF 102:** Universal Applications

#ATF 104: Long VW/Audi Adapter #ATF 105: 10mm x 1.0 VW/Audi Adapter.

#ATF 129: 12mm x 1.5 Mercedes-Benz

220, 221, 230 & 251

#ATF 103: Short VW Adapter.

5 PC. OIL FILTER SOCKET SET

**\*F 2500** 

- Oil Filter Wrenches are 93mm (36 flutes). 74mm (14 flats) & 76mm (30 flutes)
- Oil Filter Sockets are 24mm & 36mm Hex (6 flats)
- Carrying Case Included
- Set Covers Most 1988-2010 Ford Models
- 5 Year Warranty
- All Tools are 3/8" Drive
- Includes: #M 0219, #F 9336, #F 7630, #2136 & #2124

**\*EU 2000** 7-PIECE BRAKE CALIPER/BLEEDER SERVICE SET



Includes 7mm, 8mm, 9mm & 11mm brake bleeder wrenches, 3 brake caliper sockets & custom powder-coated metal organizer tray. Wrenches fit bleeder screws on Mercedes. BMW. Volvo & VW/Audi models. Applicable to: Brake caliper bolts on the majority of BMW models, Mercedes S-Class (221), newer C-Class (204), M-Class (164); Volvo cars, & rear caliper bolts on 2006-newer VW Jetta & Passat.

**10 - PIECE LINE** DISCONNECT TOOL SET

#8110

14mm Allen for VW Passat 1996-2001, Audi A4; front

17mm Allen for 1998 & later VW Passat, 1999-2004 Audi

A6, 2002–2005 Audi A4; front & rear axle bolts (AWD)

30mm 12-Pt. socket for R & R of front axle nuts for mid 1999 & later VW Golf, Jetta, Cabrio & Beetle

32mm 12 Pt. socket w/ 3/4" drive, VW Touareg;

#8010: Fits 1995-1996 Ford Mustang; #8012: Applicable to Ford & GM w/ 5/16" Fuel Line; #8013: Fits Ford Models w/ 3/8" Fuel Line; #8014: Fits Ford Taurus & Ford Escort w/ AXOD & ATX transmissions; #8016: Fits Dodge Ram V10 or Cummins Turbo Diesel; #8021: Fits Ford Trucks & S.U.V.s; #8022: Fits 2002-2004 Chevy Tahoe & Suburban; #8023: Fits 2005 Ford 6.0L Turbo Diesel Trucks, 2009 Escape w/ 6F Trans & Ford Edge; #8024: Fits 2007 Ford Explorer & Sport Trac; #8026: Disconnects the Fuel Rail from the Fuel Line on 2004 & Newer Nissan & Toyota Models.

New Disconnect Tool for 2011 GM Duramax Available Separately. See tool #8027.





**\*ATF 1100-5** 

composite plastic.

Used for setting & adjusting the cam/crank/pump timing on 1999–2008 VW TDI engines. Includes: #3359 TDI Lock Pin, #3428 TDI Cam Lock Bar, #H 2587-1 & #H 2587-2 Timing Belt Tensioner Spanner Wrenches, \*T 10115 Tensioner Lock Pins, \*T

10050 Crankshaft Stop & #T 10100 Oval Pulley Crankshaft Stop.

 $\mathbf{v}\mathbf{w}\mathbf{T}\mathbf{p}\mathbf{i}$ TIMING BELT TOOL SET

#6800**TDI** 





N54

TIMING SET **FOR N52/ ENGINES** 

 $\mathbf{B}\mathbf{M}\mathbf{W}$ 

**\*BMW** 3028

#2101

Covers 2006 & Newer 1, 3 & 5 Series models w/ 3.0L (non-turbo) & 3.0L twin turbo engines. Includes carrying case.

# Some contents are U.S. made.

**\*MC 14**00

#### MINI COOPER ENGINE TIMING SET

Jsed on 2007-2010 N14 Turbocharged engines. Set contains the following Factory tool numbers #119551, #119552 & 119590. Includes cam & crank timing tools.



#6300

#### VW/AUDI/PORSCHE SOCKET & BIT SET

#6300 XL-14 For R & R of Late Model Eurovan Axle Shafts & Ball Joints

#6300 XL-8 For R & R of Axle Shaft Bolts on Beetle, Jetta TDI & Older VW/Audi Models

#6300 XL-10 For R & R of Axle Shaft Bolts on 1999-2005 Passat & Golf #6300 X-16 For R & R of Manual Transmission Drain Plug & Touareg

& Porsche Cayenne Brake Caliper Bolts 6300 X-12 For R & R of Axle Shaft Bolts on 1999–2005 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

#3424 Spreader for Assisting R & R of Strut Housing on VW & Audi TT



#3101

#### 8**-PC. RADI**O REMOVAL SET



Includes the **#2040**, **#BMW 050**, **#3344 A** (includes two pairs), #M 2070, #3316, #BMW 025 & the #BMW 010. Applicable to: Ford & VW models w/ a DIN chassis, BMW models w/ anti-theft radio, Audi A4, A6, A8 & new VW 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].

PURCHASE A SET FROM AST IF AVAILABLE.



#3200



A compact solution to accessing the special fasteners found on the door hinges & handles of VW/Audi, Mercedes-Benz, & Porsche. Set includes four door hinge 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.

7-PIECE OIL FILTER WRENCH SET





Contains oil filter wrench sockets for many domestic & foreign applications. Covers all Mercedes-Benz applications. The 27mm, 32mm & 36mm hex sizes covers 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 covers many VW, BMW, Toyota, & Mazda 3. Also covers Dodge Sprinter & Jeep 3.0L CRD engines & 1999-2010 Volvo models.







MANY OF OUR TOOLS COME IN SETS TO FIT THE NEEDS OF THE REPAIR. TO MAKE YOUR JOB EASIER,

ST TOOL SETS

**#201-7** 

5 PC.

 $\mathbf{STUD}$ 

SET

studs. Includes 6mm,

7mm, 8mm, 10mm &

12mm stud remover /

installers.

Includes 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8" stud remover & installer tools.

#202

5 PC. STANDARD SIZE STUD PULLER SET

& installer tools.

# **\*BMW 6208**

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

Used to set timing on cams of both cylinder heads. Includes hold down tool for cam fixtures. Crankshaft timing pin included. Applicable to: N62, N62TU & N73 Engines.



**FZ 1001 A** 

#### ASIAN & DOMESTIC COOLING SYSTEM ADAPTER SET



Includes the following AST tools: #FZ 34: Fits 2000–2003 Bentley Arnage; All 1999-2001 Daewoo Models; 1995-1997 Ford Contour, 2000-2006 Focus; 1990-1994 Jaguar w/ male threads on filler neck; 1988-1994 Range Rover; 1995-1997 Mercury Mystique; 1988–1993 Pontiac Le Mans; 1994–1998 Saab 900; 2000 Saturn LS & LS 6 cyl. #FZ 35 A: Fits 1992-2009 GM; Freightliner; 2000–2003 Jaguar S Type, Land Rover LR3, Ford Taurus, Explorer, Excursion, Five Hundred; Saab 93 & Saturn Models. #FZ 37: Fits 1998–2001 Ford Contour, 2001–2005 Escape; 2002–2003 Jaguar X Type, 1998-2001 XJ8, 1998-2001 XK8; 2001-2004 Mazda Tribute; 1998–2001 Mercury Mystique. #FZ 128: Fits Acura, Chevrolet, Chrysler, Ford, Honda, Hyundai, Isuzu, Mazda, Mercury, Mitsubishi, Nissan, Subaru, Suzuki & Toyota Models w/ small-deep radiator necks. #FZ 138: Fits Acura, Chevrolet, Chrysler, GMC, Honda, Isuzu, Lexus, Mazda, Mitsubishi, Scion, Subaru (6-cyl.) & Toyota Models w/ small-shallow radiator necks.



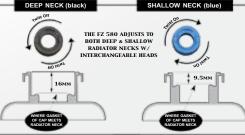
pressurized w/ this new product. Simply thread on the taller or shorter ring to accommodate a shallow or deep neck. The broad range of

RADIATOR NECKS

Using the threaded rings & one base, all small-

applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi,

Nissan, Subaru, Suzuki & Toyota.



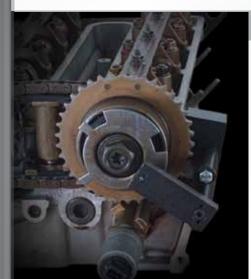
EUROPEAN COOLING SYSTEM ADAPTER SET

**FZ** 1002



MADE IN USA

Includes the following AST tools: **\*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: Fits Porsche 911 (water-cooled, w/ threaded necks) & Boxster; Volvo 670 & VN 430; VW/Audi A8, All 1975-1993 models w/ male threads on exp. tank & S8. #FZ 25: Fits all 1987–1990 Jeep models; 2002 Land Rover Freelander; Mini Cooper S; All 1985-1987 Renault Models; 1978-1994 Saab 900 & 1986-1998 9000; All 1987-1991 Sterling models; 1978-2006 Volvo models 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 and 6 Series (E60, E63, E64) & X5 2007-2009 (E70). #FZ 41: Fits All Porsche Cayenne & 1999–2011 VW/Audi (exc. Audi 8 Series). #M 0349: Fits Mercedes AMG, C class, CL class, CLK class, CLS class, E class, G class, ML 164, R class, S class, SL class & SLK class.



#### **\*BMW462 TU**

#### M62TU V8 DOUBLE VANOS SET



Includes: #BMW 462-14 & #BMW 462-58: VANOS Locking Fixtures for fixing camshaft sensor wheel in position during assembly; #BMW 4630: Chain Tensioner Tool for tensioning the primary chain when adjusting valve timing; #BMW 4640: Vanos Adjusting Pin-Wrench Socket used for adjusting VANOS to left hand stop during assembly, \*BMW 4638: Block used for screwing in the chain tensioner w/ cover removed; #BMW 4680: TDC Pin for locking flywheel at TDC on X5 models: #BMW 4631: 2 Locking Pins used for secondary chain tensioner to lock tensioner piston in position.

Used in conjunction w/ the #BMW 480 &

the #BMW 400-1 (sold separately).



#### **VW 1.8T TENSIONER** HOLDER SET

VW/Audi 1.8T Tensioner Holder Set. Contains the #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 to VW/Audi models w/ a 1.8 Turbo Motor.



#201

4 PC. METRIC STUD PULLER SET

Includes 6mm, 8mm, 10mm & 12mm stud remover & installer tools.



Includes 1/4", 5/16", 3/8", 7/16" & 1/2" stud remover



For BMW, Honda, Nissan,

& many other universal

applications. Includes pump,

3 liter container, hose, shut-off

valve & #ATF 102

• 5L & 10L Containers Also Available

Includes Quick Attachment

Pump Dispenses Efficiently

• Filler Can Handle 90 Weight Oil

Adapter #ATF 102

On / Off Ball Valve

Container Made of

DENSITY POLYETHYLENE)

Includes U.S.A. Made

**\*BMW** 3028

**UHDP** (ULTRA HIGH

Contents

w/ Safety Catch

AST

 $\mathbf{B}\mathbf{M}\mathbf{W}$ ENGINE TIMING TOOL SET

**\*BMW 6208** 

550i. 2004–2005 645Ci. 2006–2010 650i. 2002–2005 745i. 2003–2005

745Li, 2006-2008 750i & 750Li, 2005-2006 760i, 2003-2008 760Li,

2007-2008 Alpina B7.

Used to set timing on cams of both cylinder heads. Includes hold down tool for cam fixtures. Crankshaft timing pin included. Fits N62, N62TU & N73 Engines. Applicable to *BMW*: 2004–2005 545, 2006–2007 550, 2008–2010

MADE IN USA

Includes 4 blocks (2 for each side) & 2 locking fixtures for setting camshaft timing. Crankshaft locking pin \*BMW 400-1 sold separately. Applicable to: BMW M60, M62, M62TU V8 motors 1994-2003. Use in conjunction with #BMW 462 TU for M62TU motor. Comparable to BMW# 112440.

> Covers 2006-Newer 1, 3 & 5 Series Models w/ 3.0L Non-Turbo & 3.0L

> > Twin Turbo Engines

DRIVER'S SIDE BOTTOM OF BLOCK



BMW POWER STEERING

PUMP DRIVE BELT TOOL

Includes 7mm, 8mm, 9mm & 11mm brake bleeder wrenches, 3 brake caliper sockets & custom powder-coated metal organizer tray. Wrenches fit bleeder screws on Mercedes, BMW, Volvo & VW/Audi models. Applicable to: Brake caliper bolts on the majority of BMW models, Mercedes S-Class (221), newer C-Class (204), M-Class (164); Volvo cars, & rear caliper bolts on 2006-newer VW Jetta & Passat

7-PC. BRAKE

CALIPER/BLEEDER SERVICE SET

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

MADE IN USA

**\*BMW** 0062

Used to remove the fuel level lock ring. Applicable to all BMW & Mini Cooper Models: 1988-2011 E31, E34, E36, E38, E39, E46, E53, E60, E63, E64, E65, E83, E85, E90, R50, R52, R53, R55, R56 & R57. Comparable to BMW #161020

> Used for installing the drive belt that is a stretch belt & no belt tensioner is used. Applicable To: 2004-2005 BMW N62 (V8) Motors w/ the stretch belt. Comparable to BMW #641040 & #83800494518.

> > **\*EU2000**

BMW CLUTCH CENTERING TOOL SET

MADE IN USA Used in conjunction w/ the #BMW 480 & the #BMW 400-1 (sold separately).

Includes: \*BMW 462-14 & \*BMW 462-58: VANOS Locking Fixtures for fixing camshaft

sensor wheel in position during assembly, \*BMW 4630: Chain Tensioner Tool for

tensioning the primary chain when adjusting valve timing, #BMW 4640: Vanos Adjusting

Pin-Wrench Socket used for adjusting VANOS to left hand stop during assembly, \*BMW

4638: Block used for screwing in the chain tensioner w/ cover removed; \*BMW 4680: TDC Pin for locking flywheel at TDC on X5 models; \*BMW 4631: 2 Locking Pins used

for secondary chain tensioner to lock tensioner piston in position.

3-Piece Set. For centering

clutch disc on flywheel while installing self-adjusting clutch (SAC). Applicable to the following transmissions: S5D

200G, S5D 250G, S5D 260Z, S5D 310Z, S6S 420G, S6S 560G, GS6-37BZ & GS6-37DZ (H-Transmissions).

BMW TIMING SET FOR

N52/N54 ENGINES

THE HOLE LOCATION FOR THE \*BMW 420-1 IS LOCATED NEAR THE DRIVER'S SIDE BOTTOM OF THE BLOCK ON BMW N52 & N54 ENGINES

HOLE LOCATION FOR \*BMW 420-1

TOOLS

30mm Deep thin-walled

socket. Used for R & R of

transmission drive shaft

flange nut & pinion shaft

flange nut of differential.

models including E90

325 rear wheel drive

30mm axle nuts.

#2175

#8032

**\*BM 1276** 

**\*BMW** 060

OIL FILTER

MOTORCYCLES

76mm, 12 flutes, 3/8" drive, R & R of oil

filter on BMW Motorcycles 2007-2011

w/ oil filter #11 42 7 673 541.

Also R & R of older Mercedes OEM

oil filters w/ 12 flutes.

WRENCH FOR BMW

• 24mm w/ 6 Flats

 Applicable to BMW Models 2004-2011 w/ V8 (N62)

Steel Construction



89

32MM FAN CLUTCH WRENCH

74.5mm OIL FILTER

SOCKET WRENCH

• 74.5mm w/ 14 Flats

Metal Construction

Applicable to

BMW M44, 1.9L

32mm x 380mm long wrench used for the R & R of any 32mm fan clutch nuts.

Applicable to: VW, Audi & BMW models w/ 32mm fan clutch nuts.

BMW TORX FLYWHEEL

SOCKET TOOL

for many domestic & foreign applications. Covers all Mercedes-Benz applications. The 27mm, 32mm & 36mm hex sizes covers 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 covers many VW, BMW, Toyota, & Mazda 3. Also covers Dodge Sprinter & Jeep 3.0L CRD engines & 1999-2010 Volvo models.

**#2132** 

**\*FZ 1002** 

**\*BMW** 345

Contains oil filter wrench sockets

7-PIECE OIL FILTER WRENCH SET

#2101

#201-7

5 PC. METRIC STUD PULLER SET

Includes the New 7mm stud

TOOL

FOR THE

remover, ideal for BMW manifold studs. Includes 6mm, 7mm, 8mm, 10mm & 12mm stud remover /

installers.

8-PC. RADIO REMOVAL SET

#3101

(includes two pair), #M 2070, **#3316**, **#BMW 025** 

Includes the

#2040. #BMW

050, #3344 A

& the **#BMW 010** 

Applications include: MADE IN USA Ford & VW models w/ a DIN chassis, BMW models w/ anti-theft

radio, Audi A4, A6, A8 & new VW Beetles, 1992 & later Mercedes 129, 140, 163, 202 & 210 models, VW new body 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).

BMW TANK **\*BMW** 350 ADAPTER

For pressurizing cooling system. Applicable to: 2006 & newer BMW 3 Series (E90), 2004 & newer 5 & 6 Series (E60, 63, 64), 2007 & newer X5 (E70), & 2010-2011 7 Series.







**\*TA 18** 

ADAPTER

For brake master cylinder or clutch master cylinder reservoirs. Used in conjunction w/ pressure bleeder (pressure bleeder attachment thread size of 1/4" NPT).

**#2136** 

#6500 X-36

**36MM OIL** FILTER SOCKET



36mm w/ 6 Flats

Applicable to BMW M52, M60, M62, M70, M73 Engines & Mini Cooper

Steel Construction



**36MM 12-POINT** 

SOCKET



36mm 12-point 3/4" drive socket. Applicable to: BMW E38, E39, E46, E53, X5 (front & rear), the 5 Series E60 & E90 All Wheel Drive 36mm front & rear. For R & R of axle nuts.

For E90 RWD, see #100-30 A.

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



T10 Torx Driver. For center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39).

2.5MM HEX DRIVER **\*BMW** 025



2.5mm Hex Driver. For center console removal on newer BMW Z3, X5 & 5 Series (E39), Multi-Informational Display (MID) removal on BMW X5 & 5 Series (E39).

SPECIALTY DRIVER **\*BMW** 050



radios. Applicable to many BMW models.



For removal & replacement of flywheel bolts. Applicable to: BMW E34 & E39 V8 4.0L & 4.4L w/ standard transmission.

Comparable to BMW #114180

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

• 86.5mm w/ 16 Flats Metal Construction MADE IN USA

Applicable to 2006–2009 BMW Models w/ 6 Cyl. Engines, 335i, 535i, X5, X6 & All Twin-Turbo Models







MADE IN USA



CAP ADAPTER

88

32MM OIL FILTER

SOCKET

32mm w/ 6 flats.

Applicable to:

2010-2011 3.0L

Turbo-Diesel. Fits

new 2010 & later

BMW (M57) 6 cyl.

diesel engine.

**EUROPEAN COOLING** 

SYSTEM ADAPTER SET



MADE IN USA

This set contains the following

adapters: #BMW 345, #FZ 22, #FZ 25,

\*BMW 350, \*FZ 41 & \*M 0349.

For pressurizing cooling system. Applicable

to: 1988-2005 BMW models (exc. new 5 &

6 Series). Also fits Land Rover Range Rover

1995-2004 & Discovery 2002.

TANK ADAPTER

system pressure cap. Applicable to: 2006 & newer BMW 3 Series (E90), 2004 & newer 5 & 6 Series (E60, 63 & 64), 2007 & newer X5 (E70), & 2007-2011 7 Series.







AST

7mm. 3/8" Drive allen

socket. Applicable to:

caliper bolts.

**\*BMW 432** 

**\*BMW** 520

SHOWN HERE

32mm socket used for removing & installing the **BMW Vanos** Solenoid valves on 1999-2005 M52TU, M54 & M62TU motors. Comparable to #116420.

MADE IN USA

VW, AUDI, MERCEDES & **BMW OIL FILLER** • Fits 1996 & Later BMW 6 cyl. & 8 cyl.

**\*OFAUD1000** 

- Fits Dodge Sprinter
- Fits Mercedes 112 (V6) & 113 (V8) Engines
- Fits VW/Audi Engines: 1.8T. 1.9L TDI. 2.0T, 2.8L (30v), 3.0L (30v), 3.2L, 3.6 L, & 4.2 L (40 v)
- No More Mess



**\*BMW 4680** 

**#H** 2925



motors in BMW X5.

Used for setting crankshaft TDC Applicable: 1999-2003 M62TU

Used in conjunction with #BMW 520 & #BMW 522 on BMW M52TU & M54 motors, found in 1999-2005 BMW 6 cyl. motors. Includes 2 blocks, swivel lock & crankshaft locking pin. For setting camshaft timing. Comparable to BMW #113240 &

CAMSHAFT

**ALIGNMENT** 

TOOL

#112300. Applicable to: M42, M44, M50, M52, M52TU, M54, M56. S50US & S52US engines. 46mm, THIN-WALL, 3/4" DRIVE SOCKET

\*S 55-46

**\*BMW 400** 

MADE IN USA



46<sub>mm</sub>, 6-Point thin-wall socket, 3/4" drive. For R & R of front wheel bearing retainer nut on BMW E24, E28, E32 & E34 Chassis.

36mm, 6-POINT DEEP SOCKET, 3/4" DRIVE

**\*S 56-36** 



For R & R of transmission output flange nut on BMW. Applicable to: 2001 & newer BMW models E46 & E39 w/ 6 cyl. engines w/ standard transmission S5D 260Z/310Z/320Z. (exc. M3 or M5).

SPARK PLUG SOCKET

#SP1412 SHOWN HERE ON BMW SPARK PLUG



Applicable: 2007 & later BMW 135, 335, 535 & X6 w/ 3.0L twin-turbo motors. Also works on 2007 & newer Turbocharged Mini Coopers. Comparable to BMW tool #121 220. NOTE: Spark Plug Socket is slender in design to fit application.

WIRE TERMINAL

terminals w/ two release tangs from the connector plug. Applicable to many BMW models.

\*BMW 400-1

TDC PIN ONLY

For setting crankshaft TDC. Included in #BMW 400 Set. Applicable to: M21, M40, M41, M42, M43. M43TU. M44. M47. M47TU. M50, M51, M52, M52TU, M54, M56, M57, M57TU, M60, M62, M62TU, M70, M73, S50B30, S50B32, S54 & S62 engines. Comparable to BMW #112300. For M62TU in X5, see #BMW 4680.



MADE IN USA

SPROCKET **\*BMW 518** TURNER



For turning sprockets when removing & installing VANOS adjustment unit. Applicable to: **BMW M50**, M52, S50US, & S52US engines. Comparable to BMW #**115490**.

**\*BMW** 5346

BMW LINE DISCONNECT TOOL



Made of red-anodized aluminum, used for power steering & transmission oil cooler line removal. Applicable to: 1999-2009 BMW 3 Series (E46 & E90) & X5.



MADE IN USA

MADE IN USA

**HUB HOLDER \*BMW 2200** 



For holding the water pump hub during removal of fan clutch. Used in conjunction w/ the #8032. Applicable to: All BMW engines M10, M20 & M30 w/ 32mm fan clutch nut.



For holding water pump hub during removal of fan clutch. Used in conjunction w/ tool #8032. Applicable to: BMW M60 & M62 V8 engines.

MADE IN USA

**HUB HOLDER (V8)** 

EXTRACTOR

Used to remove flat terminals w/ one release tang from the connector plug. Applicable to many BMW models.

**\*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).

OIL DRAIN & FILLER

**\*H 2760** 

PLUG WRENCH

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

Mercedes-Benz models.

PATENT

Used during installation of cylinder head or camshafts. Applicable to: BMW models 1999-2005 w/ M52TU, M54 & M56 engines w/ twin VANOS. Comparable to BMW# 116150. The #BMW 400 required at back of camshafts. \*BMW 522 Also Recommended

**VANOS** 

ADJUSTMENT FIXTURE

**VANOS** 

SOCKET





Used during installation of cylinder head or camshafts. Applicable to: BMW 1996-1999 M52, 1999-2002 M52TU, 2001-2005 M54 & M56 engines. Comparable to BMW #114220.

SPROCKET ALIGNMENT **\*BMW** 524 PLATE

Applicable to: BMW M52TU, M54 & M56 engines w/ Double Vanos. Comparable to BMW #116 180.

----

Used for the R & R of the airbag from the steering wheel. Applicable to: many BMW, Mercedes-Benz, Saab & VW models.

Used for outside torx headbolts on BMW M42 & M50 engines.

TORX SOCKET INSERT #H 2223 LG T-30

E12 TORX

SOCKET

**BMW E46 TAIL LIGHT** HARNESS TERMINAL TOOL

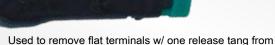


Used for extracting terminals from a connector on the tail light wiring harness. Applicable to: 1999-2005 BMW E46 3 Series.

WIRE TERMINAL

**\*S 1553 N** 

\*S 1578 K-2



**\*SP1412** 

14mm. 12-Point Spark Plug Socket w/ 3/8" drive.

EXTRACTOR

**\*S 1591 N** 

1.65mm wide, 2.8mm apart & 18mm long. Used to remove flat

AST

#### **\*MC 1400**

#### MINI COOPER ENGINE TIMING SET

Includes cam & crank timing tools. Used on 2007-2010 N14 Turbocharged engines. Set contains the following factory tool numbers: #119551, #119552 & #119590.

**#SP1412** 

SPARK PLUG SOCKET



14mm, 12-Point Spark Plug Socket w/ 3/8" drive. Applicable: 2007 & newer Turbocharged Mini Coopers. Comparable to BMW tool #121220. NOTE: Spark Plug Socket is slender in design to fit application.

#2136

36mm OIL FILTER SOCKET WRENCH

36mm w/ 6 Flats

 Applicable to BMW M52, M60, M62, M70, M73 Engines & Mini Cooper through 2006

Steel Construction





DAPTER



**\*BMW** 4622

**\*V 450** 

**\*MC 100** 

Used to remove the fuel level lock

ring. Comparable to BMW factory

tool number #161020. Applicable:

1988-2011 BMW & Mini Cooper;

E31, E34, E36, E38, E39, E46, E53,

E60, E63, E64, E65, E83, E85, E90, R50, R52, R53, R55, R56 & R57.

3/8" Drive. For turning in the rear brake

caliper piston. Applicable to: 2005 &

newer Volvo 40 & 50 Series, Mazda 3,

2002-2006 Mini Cooper, Mercury Milan,

Ford Fusion, Jaguar S-Type, Lincoln MKZ & Saab 9-3.

MADE IN USA

FUEL LEVEL SENSOR

LOCK RING TOOL

MADE IN USA

MINI COOPER

BRAKE PISTON ADAPTER

MINI COOPER

SERPENTINE BELT TOOL

Mini Cooper Serpentine Belt Tool used

for relieving tension on belt tensioner on

super-charged motors through 2006.

Comparable to #118410.

TANK **#FZ 25** 

Fits Mini Cooper w/ 47 x 3mm Threads on the Filler Neck through 2007

· Used for Pressurizing the Cooling System

**\*MC 103** 





MINI COOPER NATURALLY **ASPIRATED** SERPENTINE BELT TOOL

Mini Cooper Serpentine Belt Tool used for relieving tension on belt tensioner on *naturally* aspirated motors through 2006. Comparable to #118390.



#### 8-PIECE RADIO REMOVAL SET



Includes the #2040, #BMW 050, #3344 A (includes two pair), #M 2070, #3316, #BMW 025 & the #BMW 010. Applications to: Ford & VW models w/ a DIN chassis, BMW models w/ anti-theft radio, Audi A4, A6, A8 & new VW Beetles. 1992 & later Mercedes 129, 140, 163, 202 & 210 models, VW new body 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).

#3101

#3200

#### EUROPEAN DOOR/ HINGE HANDLE SET

A compact solution to accessing the special fasteners found on the door hinges & handles of VW/Audi, Mercedes-Benz, & Porsche. Set includes four door hinge 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.

#### RADIO REMOVAL TOOL

Used for radio removal on Audi A4, A6, A8 & VW new Beetle w/ horizontally aligned key slots. Two pair of #3344 A's are required for most newer VW/Audi models. Comparable to VW #T 10057.





**\*BMW** 050

#3344 A

SPECIALTY ALLEN DRIVER



For removal & replacement of all BMW antitheft radios. Applicable to many BMW models.







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





**\*MW** 35

**\*M** 2070

#### 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, timing covers, rocker covers & more, without causing damage.



#### RADIO REMOVAL TOOL

#2040

AST



MADE IN USA

WOR

TOOL

#### RADIO REMOVAL KEYS

#3316

Used for removing the factoryinstalled radio. Applicable to new body style VW Passat, Jetta & Golf w/ vertically aligned key slots.







6-PIECE FILE SET

Includes six files & a protective case.





SOFT ORANGE WEDGE SET

**\*MW 34** 



Constructed of soft orange polyethylene, this set 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 electronics installation work.



**\*T** 314



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

OMESTIC TOOL

Applicable to 2011 GM w/ 6.6 V8 Turbo Diesel **Duramax** 

- Made of Orange-Anodized Aluminum
- Used for removing the fuel line from the indirect fuel injector

#8010

<sup>1</sup>/<sub>4</sub>" FUEL LINE REMOVER

 Black-Anodized Aluminum Construction

 Applicable to 1995–1996 Ford Mustang





#8013

3/8" FUEL LINE REMOVER

 Gold-Anodized Aluminum Construction

 Applicable to Ford Models w/ 3/8' Fuel Line

#8016





<sup>1</sup>/<sub>2</sub>" OIL COOLER LINE REMOVER

• Green-Anodized Aluminum Construction

• Applicable to Dodge Ram V10 or Cummins Turbo Diesel







#8022

GM FUEL FILTER DISCONNECT TOOL

Applicable to 2002–2004 Chevy Tahoe & Suburban

• Made of Flexible Plastic for Extremely **Tight Application** 





**#8024** 

<sup>1</sup>/<sub>2</sub>" OIL COOLER LINE REMOVER

 Black-Anodized **Aluminum Construction** 

Applicable to 2007 Ford Explorer & Sport Trac



 $\frac{5}{16}$ " FUEL FILTER REMOVER

• Red-Anodized Aluminum Construction

• Applicable to Ford & GM w/ 5/16" Fuel Line







**#8014** 

**#8012** 

5/<sub>16</sub>" SPECIAL OIL COOLER LINE REMOVER

• Applicable to Ford Taurus & Ford Escort w/ AXOD & ATX transmissions

• Blue-Anodized Aluminum Construction









 Purple-Anodized **Aluminum Construction** 

• Applicable to Ford Trucks & S.U.V.s









<sup>1</sup>/<sub>2</sub>" OIL COOLER LINE REMOVER

Orange-Anodized Aluminum Construction

 Applicable to 2005–2008 Ford F Series Turbo Diesel Trucks, 2009 Escape w/ 6F Trans & Ford Edge







#8026

 $^{5}/_{16}$ " NISSAN/TOYOTA FUEL LINE DISCONNECT TOOL

 Green-Anodized **Aluminum Construction** 

• Disconnects the Fuel Rail from the Fuel Line on 2004 & Newer Nissan & Toyota Models









#8110

**10 - PIECE LINE** DISCONNECT TOOL SET

## FEATURES:

- The #8110's Nissan & Toyota Flared Fuel Line Application is Not Found in Other Sets
- #8023 Fits Ford 6.0 Turbo Diesel Transmission Oil Cooler Lines & New Escape & Edge
- 3/8" Transmission Oil Cooler Line Tool for Ford & Cadillac CTS
- Tahoe & Suburban Fuel Filter Removal Tool
- 2006 & 2007 Ford Explorer Transmission Oil Cooler Line Disconnect Tools
- Original 1/4", 5/16" & 3/8" Ford & GM Disconnect Tools Also Included





AST

TOOLS

TIC

TOOLS

Sprinter & Jeep 3.0L CRD engines & 1999-2010 Volvo models.

#### 76MM OIL FILTER WRENCH

"# M 0284 (84mm, 14 flats)

76mm, 30 Flutes. 3/8" Drive. Applicable to 1981-2009 Ford Models w/ Motorcraft filter #FL400S; Fits 2009-2010 Ford Models w/ Motorcraft filter #FL500S: Also Fits 2000-2004 Ford Models w/ Motorcraft filter #FL2005

FILTER

93mm, 36 Flutes. Applicable to: 1991-2010 Ford Models w/ Motorcraft filter \*FL820S





#H 4550-2

19mm FUEL LINE WRENCH



Applicable: 16 & 20 Foot Mercedes Diesel Trucks: Lines at Delivery Pump on Cummins Turbo Diesel 5.2L.

**#2132** 

32MM OIL FILTER SOCKET

- 32mm w/ 6 Flats
- Steel Construction
- Applicable to GM, Chevy, Pontiac & Saturn Models w/ 4-cyl. **Ecotec Engines**



**74.5MM OIL** 

FILTER

WRENCH

74.5mm w/ 14 Flats

**#2175** 

Metal Construction

Applicable to Dodge Sprinter w/ 2.7 L 5-cyl.



**\*M** 0284

**84mm OIL** FILTER WRENCH

84mm w/ 14 Flats, 22mm Hex

Applicable to: 2007-2009 Dodge Sprinter, the 2007-2009 Jeep Cherokee w/ the 3.0 L V6 CRD 91 (Common Rail Diesel) Engines



**\*F** 9336

**93MM OIL** WRENCH



**#2124** 

24MM OIL FILTER SOCKET

24mm, 6 Flats. Applicable to: 2004-2011 BMW 5 Series, 7 Series & X5 w/ V8 motor (N62). 2008 Saturn Astra w/ 1.8L eco-tec engine. Used for R & R of the oil filter housing cap. Also used for R & R of fuel filter housing on 2004-2010 Ford E & F Series.



**#2136** 

36mm OIL FILTER SOCKET

- 36mm w/ 6 Flats
- Steel Construction

**\*M** 0219

• 74mm w/ 14 Flats

- Applicable to 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

Applicable to Ford Focus &

& Ford Escape Hybrid

Metal Construction

MADE IN USA



FILTER

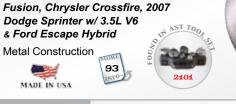
WRENCH





93 **74MM OIL** 

Dodge Sprinter w/ 3.5L V6



**\*TOY 730** 

73мм ТОУОТА OIL FILTER WRENCH

- 73mm, 14 Flats
- Applicable to Mercury 4-Stroke (Marine Application) 220 & 225 Motors
- Metal Construction









· Fits: Honda Accord, Civic, Element, Fit, NSX & S2000. All Acura Models (exc. MDX & RDX)

- · Fits Most Nissan Models
- Fits Dodge Cummins Turbo Diesel & Neon
- Ford Power Stroke engines (6.9L, 7.3L, 6.0L & 6.4L)
- Fits Some Jaguar & Jeep Models
- Made of Durable ABS Plastic
- No More Mess
- Threads & Seals Onto the Valve Cover

CHRYSLER TRANSMISSION DIPSTICK

42RLE Automatic Transmission:

(KJ) Jeep Liberty (2006–2007); (KK) Jeep Liberty (2008-); (KA) Dodge Nitro (2007-)

62TE Automatic Transmission:

(JS) Dodge Avenger & Chrysler Sebring (2007–)

CVT Automatic Transmission

(MK) Jeep Compass & Patriot (2007-); (PM) Dodge Caliber (2007-)

NAG1 Automatic Transmission:

(LC) Dodge Challenger (2008-); (LX) Chrysler 300C, Dodge Charger & Dodge Magnum (2005-); (WK) Jeep Grand Cherokee (2007-)

Used on all vehicles equipped w/ a NAG1, 42RLE, CVT Transmission & the 62TE Transaxle. Note: This tool supersedes the original #9336 A & will work on all previous applications.



SPRINTER TRANSMISSION DIPSTICK

**#CRY**933

**\*SPR** 886

**Dodge Sprinter & Chrysler Crossfire** 

Transmission Dipstick. Use in conjunction w/ factory repair literature to get correct fluid level measurements.

GM/FORD OIL FUNNEL

\*OFGMRD08



- Attaches Directly to the Engine Oil Filler Neck or Valve Cover
- Applicable to: Cadillac CTS; Chevy Cobalt, Silverado, Tahoe, Trailblazer & Vans; Ford Explorer, F150, Mustang & Taurus; GMC: Envoy & Sierra; Mercury Mountaineer; Pontiac G6 Grand Prix; Saturn SL1
- Fits Some Jaquar Models
- Made of Durable ABS Plastic
- No More Mess

DOMES

AST

OMESTIC TOOLS

REMOVAL

Set contains a carrying case & the following adapters: #FZ 34, #FZ 35 A, #FZ 37, #FZ 128 & the #FZ 138.





• Oil Filter Wrenches are 93mm (36 flutes), 74mm (14 flats) & 76mm (30 flutes)

5 PC. OIL FILTER

Oil Filter Sockets are 24mm & 36mm Hex (6 flats)

Carrying Case Included

Set Covers Most 1988-2010 Ford Models

5 Year Warranty

• All Tools are 3/8" Drive

TANK

ADAPTER

• Includes: #M 0219, #F 9336, #F 7630, #2136 & #2124

**\*FZ 29** 

CAP ADAPTER

- Applicable to Chevy, Chrysler, Ford, Mercury & Many Others
- Fits Older Ford Ranger, Windstar & Escort







**\*FZ** 32 A

TANK ADAPTER

· Works w/ Many Domestic Vehicles

**#FZ** 55

 Applicable to Various Ford, Lincoln, Cadillac & Saturn Models







TANK ADAPTER

 Applicable to Older Ford Contour & Focus









**#FZ** 36

**#FZ** 34

Applicable to Various Cadillac, Chevrolet. Ford, GM, Oldsmobile, Pontiac, Saturn & Many Other Models



TANK

ADAPTER



Applicable to Ford: Escape 2001-2005,



**#FZ** 37

MADE IN USA

**\*FZ** 35 A

**FZ** 25

#2040

Radio removal tool

for VW, Audi, Ford,

& Saab radios w/

DIN chassis.

#3101

8-PIECE RADIO

SET

MADE IN USA

#### TANK ADAPTER

Used for pressurizing cooling system. Applicable to: 1987-1990 Jeep models w/ 47 x 3mm threads on the filler neck.



Set includes the #2040, #BMW 050, #3344 A (includes two pair), **\*M 2070, \*3316, \*BMW 025** & the **\*BMW 010.** Applications

include: Ford & VW models w/ a DIN chassis, BMW models

w/ anti-theft radio, Audi A4, A6, A8 & new VW Beetles, 1992 &

later Mercedes 129, 140, 163, 202 & 210 models, VW new body

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).



RADIO REMOVAL

TOOL

MADE IN USA







# • Used for Pressurizing the Cooling System





DODGE SPRINTER

TANK ADAPTER FOR





**\*S 3054 X-10** 

**10MM 12-POINT SOCKET** 



10mm 12-Point Socket, 140mm long. Used for R & R of cylinder head bolts. Applicable to: OM 601, OM 602 & OM 603; 2003-2007 Pontiac Vibe, 2003–2007 Toyota Matrix w/ 1.8 L I-4. Also used on VW & Audi head bolts that are 10mm, 12-point. Most VW & Audi applications 1998 & later require the #3462 Head Bolt Socket.

**\*V 450** 

# BRAKE PISTON ADAPTER

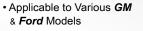


MADE IN USA

3/8" Drive. For turning in the rear brake caliper piston. Applicable: Ford Fusion, Mercury Milan, 2005 & newer Volvo 40 & 50 Series, Mazda 3, Mini Cooper, Jaquar S-Type, Lincoln MKZ & Saab 9-3.

CAPADAPTER

PEZd . . III





TANK



1998-2001 Mercury Mystique & Contour



ADAPTER Applicable to Chevy, Chrysler, Ford, Mercury & Many Others







COOLING SYSTEM ADAPTER

SET FOR DEEP & SHALLOW RADIATOR NECKS

MADE IN USA



**#FZ 128** 

MADE IN USA

TANK ADAPTER

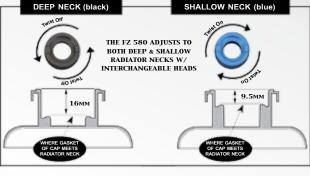
**FZ 138** 







**#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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki & Toyota.

GENERAL

TOOLS

26

2

#3000-4 K

#3004X

4-Piece, 12-Point, 1/4" Drive Socket Set. Includes: 4mm, 5mm, 6mm & 8mm sockets. 1-Piece steel construction

4-Piece Allen Socket Bit Set. Includes: 4mm, 5mm,

6mm & 8mm 1/4" drive sockets.

4-PC, 12-PT, 1/4"

DRIVE SET

THOREX COPPER **"T 314** HAMMER

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

#1200

UNIVERSAL TIE ROD END/BALL JOINT PULLER

4-PIECE ALLEN

SOCKET BIT SET



This tool's unique screw joint offers a wide gripping range. Well-suited for the job because of the #1200's parallel arrangement of the top & bottom jaw plates.

#### **40-PIECE SOCKET SET** WITH 1/4" DRIVE

Contains: T-6 through T-45 6-Point Tamperproof® Torx; T-10 through T-50 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



6-PIECE ALLEN SOCKET BIT SET



6-Piece Allen Socket Bit Set. Includes: 2.5mm, 3mm, 4mm, 5mm, 6mm & 8mm 1/4" drive sockets.

#3900

#3000-6 K

#3000

5 LOBE TAMPER-PROOF BITSET

5 Lobe Bits. 1/4" Drive Bit Holder. Includes: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 & T-50



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

TORX SOCKET INSERT



T-30 torx used for R & R of the airbag from the steering wheel. Applicable to: Many BMW, Mercedes-Benz, Saab & VW/Audi models.

#1201

UNIVERSAL TIE ROD END & BALL JOINT PULLER



Universal Tie Rod End & Ball Joint Puller. Opens from 5 to 54mm, w/ a 28.75mm inside opening & an overall outside size of 47mm. Comparable to VW #3287A



installer tools.

#201-7

AST

TOOLS

#### 5 PC. METRIC STUD PULLER SET

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

#203

#### 7 PC. STANDARD SIZE STUD PULLER SET

Includes 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8" stud remover & installer tools.

**#202** 

#### 5 PC. STANDARD SIZE STUD PULLER SET

Includes 1/4", 5/16", 3/8", 7/16", & 1/2" stud remover & installer tools.

9/16"

INDIVIDUAL STUD REMOVERS / INSTALLERS

#200-9/16 & #200-5/8 are 27mm Hex, No Square

Comes w/ 3 sets of interchangeable pins. Pins

at 90°. Holding pins are Made in USA.

**#200-6 #200-8 #200-10** 

CAMSHAFT PULLEY

HOLDER

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

**#200-12 #200-1/4** 

1/4"

#**7200** shown

**#7200** 

\*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. **#200-5/16 #200-3/8 #200-7/16 #200-1/2 #200-9/16 #200-5/8** SOFT ORANGE

7/16

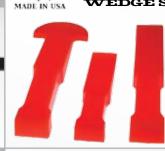
WEDGE SET

1/2"

3/8"

5/8"

**\*MW** 34



Constructed of soft orange polyethylene, this set 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 electronics installation work.



5/16"

# BLACK WEDGE SET

HARD

Constructed of strong black polycarbonate, this set of three wedge-style dash panel removal tools allows installers to remove oil pans, timing covers, rocker covers & more, without causing damage.



#3810

**\*MW** 35

#### 6-PIECE FILE SET

Includes six files & a protective case.



- Black-Anodized Aluminum Construction
- Applicable to 1995–1996 Ford Mustang







#8013

3/8" FUEL LINE REMOVER

- Gold-Anodized Aluminum Construction
- Applicable to Ford Models w/ 3/8' Fuel Line



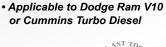






<sup>1</sup>/<sub>2</sub>" OIL COOLER LINE REMOVER

• Green-Anodized Aluminum Construction









#8022

GM FUEL FILTER DISCONNECT TOOL

Applicable to 2002–2004 Chevy Tahoe & Suburban

Made of Flexible Plastic for Extremely **Tight Application** 





**#8024** 

<sup>1</sup>/<sub>2</sub>" OIL COOLER LINE REMOVER

**Aluminum Construction** 





- Red-Anodized Aluminum Construction
- Applicable to Ford & GM w/ 5/16" Fuel Line



**#8012** 





**#8014** 

5/46" SPECIAL OIL COOLER LINE REMOVER

- Applicable to Ford Taurus & Ford Escort w/ AXOD & ATX transmissions
- Blue-Anodized Aluminum Construction





**#8021** 

 $3/_{\circ}$ " OIL COOLER LINE REMOVER

 Purple-Anodized Aluminum Construction

 Applicable to Ford Trucks & S.U.V.s









<sup>1</sup>/<sub>2</sub>" OIL COOLER LINE REMOVER

- Orange-Anodized Aluminum Construction
- Applicable to 2005 Ford 6.0L Turbo Diesel Trucks, 2009 Escape w/ 6F Trans & Ford Edge







#8026

 $^{5}/_{16}$ " NISSAN/TOYOTA FUEL LINE DISCONNECT TOOL

- Green-Anodized **Aluminum Construction**
- · Disconnects the Fuel Rail from the Fuel Line on 2004 & Newer Nissan & Toyota Models







#8023 shown

#8110

10 - PIECE LINE DISCONNECT TOOL SET

## FEATURES:

- The #8110's Nissan & Toyota Flared Fuel Line Application is Not Found in Other Sets
- #8023 Fits Ford 6.0 Turbo Diesel Transmission Oil Cooler Lines, & New Ford Escape & Edge
- 3/8" Transmission Oil Cooler Line Tool for Ford & Cadillac CTS
- Tahoe & Suburban Fuel Filter Removal Tool
- 2006 & 2007 Ford Explorer Transmission Oil Cooler Line Disconnect Tools
- Original 1/4", 5/16" & 3/8" Ford & GM Disconnect Tools Also Included





Black-Anodized

Applicable to 2007 Ford Explorer & Sport Trac





AST

AST

Equipped w/ 14mm & 19mm, 12 pt. secured sockets, for engagement every

30°. Ideal for strong tensioners used on 2006 & newer Honda Civic. Also

applicable to Accord, Odyssey & Pilot.

**\*ATF 1002 BASIC** 

Ideal for Honda Pilot differential fills. For BMW, Honda, Nissan & many other universal applications. Includes pump, 3 liter container, hose, shut-off valve & #ATF 102

USE ON HONDA PILOT DIFFERENTIAL

(INSET) SHOWN HERE IN

• 5L & 10L Containers Also Available

- Includes Quick Attachment Adapter \*ATF 102
- Pump Dispenses Efficiently
- Filler Can Handle 90 Weight Oil
- On / Off Ball Valve w/ Safety Catch
- Container Made of UHDP (ULTRA HIGH DENSITY POLYETHYLENE)

MADE IN USA 91 <sup>‡</sup>5063 sноwn HERE ON FILTER • 63mm w/ 14 Flats · Fits Honda Models through 2011 (exc. S2000)

**#HO10PT** 

10-POINT SOCKET



10-Point Socket. Applicable to: Honda rear lower control arms.

**FZ 128** 

TANK ADAPTER

Applicable to 1990–1993 Honda Accord, 1988-1993 Civic, 1991-2006 Honda Motorcycles; &

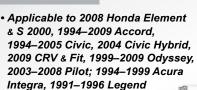
1990–1993 Acura Integra · Used for Pressurizing the Cooling System

91



**#FZ 138** 

TANK ADAPTER



Used for Pressurizing the Cooling System



THE FZ 580 ADJUSTS TO BOTH DEEP & SHALLOW RADIATOR NECKS W/

INTERCHANGEARI E HEADS



SHALLOW NECK (blue)

**#FZ** 580

COOLING SYSTEM ADAPTER SET FOR DEEP & SHALLOW RADIATOR NECKS

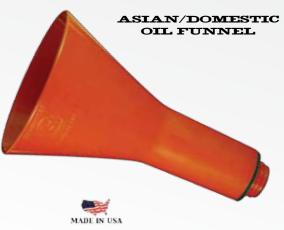


• The \*FZ 580 Covers All 1990-2010 Honda Models



DEEP NECK (black)

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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki & Toyota.



- Fits: Honda Accord, Civic, Element, Fit, NSX & S2000. All Acura Models (exc. MDX & RDX)
- Fits Most Nissan Models
- Fits Dodge Cummins Turbo Diesel & Neon
- Ford Power Stroke engines (6.9L, 7.3L, 6.0L & 6.4L)
- Made of Durable ABS Plastic
- No More Mess
- Threads & Seals Onto the Valve Cover

**\*OFHON1**033

MITSUBIS

AND ROVER, MAZDA & MITSUBISHI

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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda,

# Mitsubishi, Nissan, Subaru, Suzuki & Toyota.

ASIAN & DOMESTIC COOLING SYSTEM ADAPTER SET

MADE IN USA

**FZ 1001 A** 

**\*OFGMRD**08



Set contains a carrying case & the following AST cooling system adapters: #FZ 34, \*FZ 35 A, \*FZ 37, \*FZ 128 & the \*FZ 138.



EUROPEAN COOLING SYSTEM ADAPTER SET



**\*BMW** 345

**\*8007** 

TANK ADAPTER

· Applicable to 1988-2005 BMW (exc. new 5 & 6 Series); 1995-2004 Land Rover Range Rover & 1999-2004 **Discovery Series 2** 

 For Pressurizing Cooling System

**#FZ 32 A** 





Applicable to 2005 Land Rover

Freelander, 2005-2007 LR3,

& 2006 Range Rover Sport

Used for Pressurizing

the Cooling System





TANK ADAPTER



Fan clutch holder for Land Rover w/ V8 engines.

FAN CLUTCH

HOLDER

TANK ADAPTER

· Applicable to: 2002-2004 Land Rover Freelander

 Applicable to: Models w/ 47 x 3mm Threads on the Filler Neck

 Used for Pressurizing the Cooling System



**#FZ** 34



Land Rover Discovery Series 1

MADE IN USA

Applicable to 1989–1998

Used for Pressurizing

the Cooling System



TANK











This set contains the following adapters: #BMW 345, #FZ 22, #FZ 25, \*BMW 350, \*FZ 41 & \*M 0349.

# 97



TANK ADAPTER

• Applicable to Land Rover LR2 & 2004-2006 Mazda 3

 Used for Pressurizing the Cooling System



**\*M** 0219

3 & 2006-2007 Mazdaspeed 6

• 74mm w/ 14 Flats

Metal Construction



Applicable to: 2004–2006 Mazda 3 (2.3L), 2005–2007

#M 0129

HOWN HERE

Mazda 5 (2.3L), Mazda 6 (2.3L), 2006-2007 Mazdaspeed



MADE IN USA

**74MM OIL FILTER** 

WRENCH



97

TANK ADAPTER

Applicable to 1985–1999 All Mazda Models (exc. Protege, 2004 Mazda 6, 2000-2001 Protege (automatic); & 1991-1998 Mitsubishi 3000 GT, 1992-1995 Diamante, 1985-1993 Galant, 1985-1992 Mirage, 1989-1998 Montero, 2004 Outlander

Used for Pressurizing the Cooling System AST Too

For Cap Adapter see #FZ 29









# MADE IN USA

#### TANK ADAPTER **#FZ 138**

Applicable to 1995 Mazda Protege (1.5L), 2000-2001 Protege (manual); & 1996-1998 Mitsubishi Diamante, 2002 Eclipse (Spyder), 1994-2003 Galant, 1993-1999 Mirage, 1997-1999 Montero Sport

Used for Pressurizing the Cooling System









• Applicable to 2010–2011 5.0L V8 Jaguar Models







ASIAN/DOMESTIC OIL FUNNEL

Made of Durable ABS Plastic

• Fits 2002 & Older Land Rover,

4.0L, 4.2L & 4.6L Engines

• Fits Jaguar 4.2L Engines

Discovery & Defender w/ 3.5L, 3.9L,

• Threads & Seals Onto the

• No More Mess

Valve Cover

**\*OFHON1033** 

MADE IN USA



JAGUAR OIL

FUNNEL

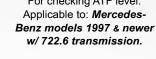
 Made of Strong Polycarbonate No More Mess

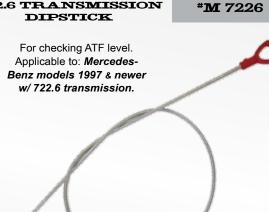
• 1/4-Turn & Seals Onto the Valve Cover

• Fits 2003 & Newer Jaguar & Land Rover (exc. 3.0L V6)



MADE IN USA







Used for R & R as well as adjustments of headlamps on 1999-2004 Audi A6. Also used to access the door handle fasteners on some Mercedes-Benz models. Applicable to: 2000-2004 Mercedes S-Class w/ 220 chassis.

#H 2771

17MM VALVE **ADJUSTMENT** WRENCH



Offset 17mm Wrench is used for valve adjustment on Mercedes-Benz M110 gas engines (dual camshaft 6 cyl). Also used to pry off the spark plug connectors from the spark plugs on 112 & 113 engines.

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

TORX SOCKET INSERT



This T-30 torx is for the R & R of the airbag from the steering wheel & is applicable to many BMW, Mercedes-Benz, Saab & VW models.

**\*BMW** 377

**7MM ALLEN** SOCKET



7mm, 3/8" Drive Allen socket. Applicable to: BMW E36, E46, E39 & E31 models, Mercedes S-Class (221) & C-Class (204). For R & R of rear caliper bolts.

**GUIDE RAIL \*M** 0734 PIN PULLER

Used for removing the most stubborn pins from the cylinder head. Unlike the short slide hammer previously used to attempt this job, the #M 0734 incorporates a thrust bearing to ease the pulling action. Overall length is 85mm, which allows access to tight problem areas. Applicable to: Mercedes engines M 116, M 117, OM 601, OM 602, OM 603, OM 615 & OM 616. Can

be used on M 272 & M 273 but shims and/or MADE IN USA spacers are necessary.

**T-1**00 3/4" **DRIVE \*H 1012 T-100** SOCKET



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





OIL DRAIN & FILLER

14mm Allen, 17mm Box Wrench. Used for the R & R of the differential oil filler plug on many BMW & Mercedes-Benz models.

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



17mm Injection Line Wrench is an offset, 3/8" drive fuel injection line wrench.

**\*H** 992 **SLG-T**55

**#H 2760** 

HEAD BOLT SOCKET FOR MERCEDES



T-55 Torx head bolt socket for Mercedes. Applicable to: Mercedes-Benz models w/ motors M112, M113, M120 & M137.

**\*M** 3857

PIN WRENCH SOCKET FOR MERCEDES M-CLASS



3/4" drive Pin Wrench Socket used to secure the retaining ring during R & R of ball joints. Applicable to: Mercedes 163 M-Class front & rear axles.



PULLEY **\*M** 9004 HOLDER

Crankshaft harmonic balancer holder. Used for the R & R of the front crankshaft bolt. Applicable to: M112 (V6) & M113 (V8) engines.

#S 3054 X-10



10MM 12-POINT SOCKET



140mm Long Socket. Used for R & R cylinder head bolts. Applicable to: OM 601, OM 602 & OM 603; 2003-2007 Pontiac Vibe, 2003-2007 Toyota Matrix w/ 1.8 L I-4. Also used on VW/Audi head bolts that are 10mm, 12-point.



-"After using the

factory & other

fillers, the ATF

Assenmacher is

the cleanest &

most efficient."

aftermarket

system from

**ENGINE OIL** DIPSTICK

For checking engine oil level. Applicable to: newer Mercedes models w/ engines 112,113,137 & 271.



9-PIECE DRIVE LINE FILLER

For BMW, Ford, Honda Mercedes, Nissan, Toyota, VW/Audi & many other universal applications. Includes

SYSTEM

pump, 5 liter container, hose, shut-off valve & #ATF 101, #ATF 102, #ATF 103, #ATF 104, **\*ATF 105, \*ATF 16 DSG,** #ATF 17 CVT, #ATF 129 & #ATFTOY118.

**\*ATF 1100-5** 

**\*ATF 1004-5 MB** MERCEDES DRIVE LINE FILLER SYSTEM

> For filling fluids in the 722.9 Automatic Transmissions using a 12mm x 1.5 adapter. Includes pump, container, hose, shut-off valve & #ATF 129.

12MM  $\times$  1.5 **DRIVE** LINE FILLER SYSTEM ADAPTER FOR MERCEDES-BENZ



**\*M** 0721

12mm x 1.5 Mercedes-Benz Adapter used in conjunction w/ the ATF Filler System. Applicable to: 722.9 automatic transmissions. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete ATF Mercedes Filler System Set, see #ATF 1004-5 MB.

722.6 TRANSMISSION

TOOLS

MERCEDES

# 7-PIECE OIL FILTER



WRENCH SET

Contains oil filter wrench sockets for many domestic & foreign applications. Covers all Mercedes-Benz applications. The 27mm, 32mm & 36mm hex sizes covers 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 covers many VW, BMW, Toyota, & Mazda 3. Also covers Dodge Sprinter & Jeep 3.0L CRD engines & 1999-2010 Volvo models.





#MVW2050F

SHOWN HERE ON FUEL FILTER



#### VW, AUDI, MERCEDES & BMW OIL FILLER

- Fits 1996 & Later BMW 6 cyl. & 8 cyl.
- Fits Dodge Sprinter
- Fits 1998 & Newer Mercedes Motors 112, 113, 271, 272 & 273 (V6 & V8)
- Fits VW/Audi Engines: 1.8T, 1.9L TDI, 2.0T, 2.8L (30v), 3.0L (30v), 3.2L, 3.6L & 4.2L (40 v)
- No More Mess

# **\*M** 0**E**24

#### E24 FEMALE TORX SOCKET

27mm OIL FILTER

SOCKET

**74MM OIL FILTER** 

WRENCH

CAM ALIGNMENT

PLATES FOR MERCEDES



Applicable to Newer Mercedes

Models w/ 4 Cyl. Engines

Female torx socket. Applicable to: Front axle nut on Mercedes 4Matic models, new C-Class (204), New E-Class (212), new S-Class (221).

#### **\*BM 1276**

#### 76MM OIL FILTER WRENCH

- 76mm, 12 Flutes, 3/8" Drive
- Applicable to M102 & M103 Mercedes Engines w/ 12 Flute OEM
- Metal Construction









#### 36MM OIL FILTER SOCKET

• 36mm w/ 6 Flats

**#2136** 

- Applicable to Mercedes Diesel 604, 605 & 606 Engines
- Steel Construction









Fuel line pliers for VW fuel lines w/ plastic snap-together connectors & for Mercedes-Benz 163 M-Class fuel filters.





# **\*M2010ACP**



# **\*M** 0219

#2127

27mm w/ 6 Flats

Steel Construction

100

# • 74mm w/ 14 Flats

- Applicable to 1998-2006 Mercedes Models w/ V6 (112) & V8 (113)
- Metal Construction

**\*M** 3200 A







MADE IN USA



Used for cam alignment.

Applicable to: 1998

& later Mercedes

including M 112 &

M 113 engines (exc.

AMG models); Chrysler

Crossfire (exc. SRT6).

# **\*M** 0284

#### 84mm OIL FILTER WRENCH

- 84mm w/ 14 Flats, 22mm Hex
- · Applicable to: 2007-2009 Dodge Sprinter, 2007-2011 Mercedes-Benz Turbo-Diesel & the 2007-2009 Jeep Cherokee w/ the 3.0 L V6 CRD (Common Rail Diesel) Engines











# **\*M** 0333

# PULLER SET (PAIR OF HOOKS)

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





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



This tool is used to remove flat terminals w/ one release tang from the connector plug.

# **\*S 1591 N**

#### WIRE TERMINAL EXTRACTOR



This tool is used to remove flat terminals w/ two release tangs from the connector plug. 1.65mm wide, 2.8mm apart





constructed of tough composite plastic.

TOOL

MERCEDES

LS FOR THE PROFE

**\*EU 2000** 

7-PIECE

SET

BRAKE BLEEDER

CALIPER/ SERVICE

30<sub>mm</sub> Deep thin-walled socket used for R & R of transmission drive shaft flange nut & pinion shaft flange nut of differential.

**FZ 32 A** 

TANK ADAPTER

- Applicable to: 1998–2005 Mercedes M Class (M163)
- · Used for Pressurizing the Cooling System





MADE IN USA

CAP ADAPTER **#FZ** 36

Includes the following AST tools: #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: Fits Porsche 911 (water-cooled, w/ threaded necks) & Boxster; Volvo 670 & VN 430; VW/Audi A8, All 1975–1993 models w/ male threads on exp. tank & S8. #FZ 25: Fits

all 1987-1990 Jeep models; 2002 Land Rover Freelander; Mini Cooper S; All 1985-

1987 Renault Models; 1978-1994 Saab 900 & 1986-1998 9000; All 1987-1991 Sterling

models; 1978-2006 Volvo models 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: Fits All Porsche

Models; 2006 Audi A3, 1996–2009 A4, 2007 A4 Wagon, 1998–2009 A6, 2000–2002 TT, 1999-2009 VW Golf, 1999-2008 Jetta, 2005.5 Jetta (new body), 1998-2004 New Beetle, 1998-2004 Passat, Q7 (3.6L), 2004-2009 Touareg. #M 0349: Fits All 1996 & newer Mercedes w/ threaded cap [exc. 1998-2005 M-Class (163)].

- · For Testing Pressure Relief in Cooling System Cap
- Applicable to: 1998-2005 Mercedes-Benz M-Class (M 163)





ADAPTER



BRAKE BLEEDER WRENCH

> 7mm Brake Bleeder Wrench

SOCKET



Used for the R & R of the

delivery valve on

Mercedes-Benz Diesel

injection pumps. Applicable to:

Diesel engines 601, 602, 603,

605, 606, 615, 616 & 617.

**\*EU 2007** 

**\*EU 2009** 

BRAKE BLEEDER WRENCH

BRAKE BLEEDER

WRENCH

11<sub>mm</sub> Brake Bleeder

Wrench

**\*EU 2008** 



**\*M** 0349

TANK ADAPTER

 Applicable: Mercedes Models w/ a Threaded Filler Neck (exc. M-Class, 163 body)

· Used for Pressurizing the Cooling System







**\*TA 18** 

For brake master cylinder or clutch master cylinder reservoirs. Used in conjunction w/ pressure bleeder. (pressure bleeder attachment thread size of 1/4" NPT).





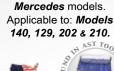
BRAKE BLEEDER

WRENCH



**\*M** 2070

Used for radio removal on 1992 & later





RADIO REMOVAL TOOL



#H 4550-2

19mm FUEL LINE WRENCH



Applicable: 16 & 20 Foot Mercedes Diesel Trucks; Lines at Delivery Pump on Cummins Turbo Diesel 5.2L.

#3101

8-PIECE RADIOREMOVAL SET

Set includes the #2040, #BMW 050, #3344 A (includes two pair), **#M 2070, #3316, #BMW 025** & the **#BMW 010**. Applications include: Ford & VW models w/ a DIN chassis, BMW models w/ anti-theft radio, Audi A4, A6, A8 & new VW Beetles, 1992 & later Mercedes 129, 140, 163, 202 & 210 models, VW new body 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).

#3200

Compact solution to accessing the special fasteners found on the door hinges & handles of VW/ Audi, Mercedes-Benz & Porsche. Includes four door

hinge 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.

EUROPEAN DOOR/ HINGE HANDLE SET

Includes 7mm, 8mm, 9mm & 11mm brake bleeder wrenches, 3 brake caliper sockets & custom powder-coated metal organizer tray. Wrenches fit bleeder screws on *Mercedes*, BMW, Volvo & VW/Audi models. Applicable to: Brake caliper bolts on the majority of BMW models, Mercedes S-Class (221), newer C-Class (204), M-Class (164); Volvo cars, & rear caliper bolts on 2006-newer VW Jetta & Passat.

42

4

& MARINI

OIL FUNNEL

# • Made of Durable ABS Plastic

- No More Mess

HARLEY-DAVIDSON

OIL FUNNEL

- Seals Just like the Factory Cap
- Fits All 1999–2006 Harley-Davidson Touring Models
- Used on Push-Type Oil Caps



**40-PIECE SOCKET SET** WITH 1/4" DRIVE

Contains: T-6 through T-45 6-Point Tamperproof® Torx; T-10 through T-50 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.







#3810

6-PIECE FILE SET Includes six files & a protective case.



**\*FZ 128** 

#3000

#### TANK ADAPTER

- · Used for Pressurizing the Cooling System
- For Deep Necks
- Fits Many Asian Motorcycles





MADE IN USA

**#FZ 138** 

TANK ADAPTER

- · Used for Pressurizing the Cooling System
- For Shallow Necks
- Fits Many Asian Motorcycles





MADE IN USA





COOLING SYSTEM ADAPTER SET FOR DEEP & SHALLOW RADIATOR NECKS

• Fits Most Asian Motorcycles MADE IN USA

DEEP NECK (black) THE FZ 580 ADJUSTS TO BOTH DEEP & SHALLOW RADIATOR NECKS W/ INTERCHANGEARI E HEADS

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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki & Toyota.

#OFHD419

SHOWN HERE IN USE



#BM 1276

AL

MORE 89 INFO



76mm, 12 flutes, 3/8" drive, R & R of oil filter on **BMW** Motorcycles 2007-2011 w/ oil filter #11 42 7 673 541. Also R & R of older Mercedes OEM oil filters w/ 12 flutes.



#5040

66.5MM OIL FILTER WRENCH

- 66.5mm w/ 14 Flats
- · Applicable to: Yamaha filter #5GH-13440-20 & Buell Models XB9 & XB12



**\*M** 0219





**74MM OIL** 

FILTER

WRENCH



• 63mm w/ 14 Flats

**#5063** 

· Applicable to: Yamaha ATV, Yamaha Filter #5H-13440-00 G & Kawasaki Filter #16097-0003







HONDA/NISSAN

OIL FILTER

WRENCH

**\*TOY** 730

**#TOY 730** 

73мм ТОУОТА OIL FILTER WRENCH

• 73mm w/ 14 Flats

ON FILTER

· Applicable to Yamaha Marine Outboard Engines I-4 & V6 & Yamaha Filter #69J-13440-00









**#HD 1474** 







Applicable to Older BMW filter #1142 1460845 including:

1987–1997 K 75; 1990–1997 K 75 RT; 1986–1997 K 75



Applicable to: Harley Davidson Motorcycles w/ a spin on oil filter



#HD 1474 SHOWN HERE ON FILTER



installer tools.

**\*201-7** 

#### 5 **PC.** METRIC STUD PULLER SET

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

#203

#### 7 PC. STANDARD SIZE STUD PULLER SET

Includes 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8" stud remover & installer tools.

#202

#### 5 PC. STANDARD SIZE STUD PULLER SET

NE Includes 1/4", 5/16", 3/8", 7/16", & 1/2" stud remover & installer tools.

INDIVIDUAL STUD REMOVERS INSTALLERS

#200-9/16 & #200-5/8 are 27mm Hex, No Square Drive

12<sub>mm</sub>

1/4"

5/16"

3/8" 7/16" 1/2" 

9/16" 5/8" #200-9/16 #200-5/8

4-PIECE ALLEN #3000**-4 K** SOCKET SET



This 4 piece allen socket set includes: 4mm, 5mm, 6mm & 8mm 1/4" drive sockets. Rail Included.

6-PIECE ALLEN SOCKET SET

#3000-6 K



This 6-piece allen socket set includes: 2.5mm, 3mm, 4mm, 5mm, 6mm & 8mm 1/4" drive sockets. Rail Included.

**4-PIECE, 12-POINT,** DRIVE SET

#3004X



This 4-piece, 12-point, 1/4" drive socket set includes: 4mm, 5mm, 6mm & 8mm sockets. 1-Piece steel construction.

TOOLS

Maxima, 1995-2011, 2002-2011 Murano, 1995-2007 Pathfinder, 1997-2007 Pick-up, 2007 Sentra, 2004-2011 X-Trail (Canada), 2007 Xterra; & Infiniti: 2004-2007 M35 & M45 w/ VQ35DE engine







<sup>‡</sup>5063 sноwn

#8026

5/16" NISSAN/TOYOTA FUEL LINE DISCONNECT TOOL

 Applicable to 2004 & Newer Models w/ 5/16" Fuel Rail

· Used for Disconnecting the Fuel Line from the Fuel Rail

 Green-Anodized Aluminum Construction





**#FZ 32 A** NISSAN COOLING SYSTEM

 Applicable to: Nissan Armada & Titan through 2011

TANK ADAPTER

Used for Pressurizing the Cooling System





**#FZ** 36

NISSAN CAP ADAPTER



**#FZ** 580

· Applicable to: Nissan Armada & Titan through 2011

Also Fits Various GM & Ford Models

Used for Testing Pressure Relief in the Cooling System Cap





**\*FZ** 29

**#FZ 128** 

CAP ADAPTER FOR NISSAN

Applicable to 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

Used for Testing Pressure Relief in the Cooling System Cap





COOLING SYSTEM ADAPTER FOR NISSAN

 Applicable to 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

Used for Pressurizing the Cooling System







**#SU 8015** 

OIL FILTER WRENCH



80mm, 15 Flats. Applicable to: Nissan vehicles using filter #15208H8903 & #1520855Y00 (found in older Sentra & Trucks).

COOLING SYSTEM ADAPTER SET FOR DEEP & SHALLOW



DEEP NECK (black) SHALLOW NECK (blue) THE FZ 580 ADJUSTS TO BOTH DEEP & SHALLOW RADIATOR NECKS W/ INTERCHANGEARI E HEADS

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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki & Toyota.

Covers all Nissan through 2011 (exc. Armada & Titan)



T 5 LITER BASIC \*ATF 1002-5 BASIC DRIVE LINE FILLER SYSTEM

5 Liter Capacity

• Additional 3 & 10 Liter Drums also available

Quick Attachment Adapter

Pump Dispenses Efficiently

· On/Off Ball Valve w/ Safety Catch

• Container Made of UHDP (Ultra High Density Polyethylene)

· Hose Length 4 ft. 10 in.

AND HARMAN



LINE FILLER SYSTEM

MADE IN USA

ASIAN/

DOMESTIC OIL FUNNEL

**\*ATF 1002 BASIC** 

• Fits Most Nissan Models

No More Mess

• Made of Durable ABS Plastic

• Threads & Seals Onto the Valve Cover

Fit. NSX & S2000: All Acura Models

Turbo Diesel & Neon; & Ford Power

(exc. MDX & RDX); Dodge Cummins

· Also Fits Honda Accord, Civic, Element,

**\*OFHON1033** 

 3 Liter Capacity Additional 5 & 10 Liter Drums also available

Quick Attachment Adapters Pump Dispenses Efficiently

On/Off Ball Valve w/ Safety Catch

4 ft. 10 in.



For BMW, Honda, Nissan & many other universal applications. Includes pump, 3 liter container, hose, shut-off valve & #ATF 102.

AST

NISSAN TOOLS

Stroke Engines (6.9L, 7.3L, 6.0L & 6.4L)

CHANGE TOOLS

⇒CUSTOM DIPSTICKS

\*OFHON1033

#2101

⇒oil filter sockets & Wrenches

see pg. 56

see pg. 55

see pg. 53

⇒custom funnels

DRIVE LINE FILLER SYSTER

see pg. 56

see pg. 52

\*OFHD35

see pg. 57

\*OFTOY1001

\*ATF 108 V

see pg. 56

**\*OFSU1042** 

see pg. 56

\*OFAUD1000

CHANGE

**#ATF 1002 BASIC** Shown Here

• Pump Dispenses Efficiently

• Filler Can Handle 90 Weight Oil

• On / Off Ball Valve w/ Safety Catch

• Container Made of UHDP (ULTRA HIGH DENSITY POLYETHYLENE) 9-PIECE DRIVE LINE FILLER SYSTEM

For BMW, Ford, Honda,

Mercedes, Mini, Nissan, Toyota,

VW/Audi & many other universal

applications. Includes pump,

5 liter container, hose, shut-off

valve & #ATF 101. #ATF 102.

\*ATF 103, \*ATF 104, \*ATF 105,

**\*ATF 16 DSG, \*ATF 17 CVT, \*ATF 129 & \*ATFTOY118** 

**\*ATF 1100-5** 

CHANGE

AST

**\*ATF 1033-5 VW** 

VW/AUDIDRIVE LINE FILLER SYSTEM

For VW/Audi & many other universal applications. Includes pump, 5 liter container, hose, shut-off valve & #ATF 103, \*ATF 104, \*ATF 105, \*ATF 16 DSG & #ATF 17 CVT.

**\*ATF 1004-5 MB** 

MERCEDES DRIVE LINE FILLER SYSTEM

For filling fluids in the 722.9 Automatic Transmissions using a 12mm x 1.5 adapter. Includes pump, container, hose, shut-off valve & #ATF 129.

**\*ATF 1008-5 EURO** 

#### **EURO DRIVE LINE** FILLER SYSTEM

For BMW, Honda, Nissan, Mercedes & Volvo. Includes pump, 3 liter container, hose, shut-off valve & #ATF 102, #ATF 103. \*ATF 129, \*ATF 108V, \*ATF 16 DSG, \*ATF 17 CVT, \*ATF 105 & \*ATF 104.

BASIC DRIVE LINE FILLER SYSTEM

For shops servicing European makes, ask about the #ATF 1008-5 **EURO** 

**\*ATF 1002 BASIC** 

For BMW, Honda, Nissan & many other universal applications. Includes pump, 3 liter container, hose, shut-off valve & #ATF 102.

\*ATF 17 CVT

Set, see #ATF 1033-5 VW.



**\*ATF 101** 

VW/Audi DSG Drive Line

Adapter used w/ the AST

ATF Filler System. The

attachment has a 24mm

x 1.5 thread. For the

complete ATF VW Filler

System Set, see

#ATF 1033-5 VW.

DRIVE LINE FILLER SYSTEM ADAPTER FOR FORD W/ 1/8-27 NPT PLUG

Ford Adapter used in conjunction w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete Ford

Set, see #ATF 1001 FORD. For the complete ATF Filler System Set, see #ATF 1100-5.

**\*ATF 103** 

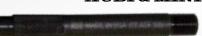
SHORT DRIVE LINE FILLER SYSTEM ADAPTER FOR VW/AUDI



VW/Audi Adapter used in conjunction w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete VW/Audi Set, see #ATF 1033-5 VW. For the complete ATF Filler System Set, see #ATF 1100-5.

**\*ATF 105** 

10MM  $\times$  1.0 **DRIVE** LINE FILLER SYSTEM ADAPTER FOR VW/ AUDI & MINI



10mm x 1.0 VW/Audi Adapter used in conjunction w/ the ATF Filler System. Fits Mini Cooper w/ Aisin transmission. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete VW/Audi Set, see #ATF 1003-5 VW. For the complete ATF Filler System Set, see #ATF 1100-5.

**\*ATF 129** 

 $12MM \times 1.5 DRIVE$ LINE FILLER SYSTEM ADAPTER FOR MERCEDES-BENZ



12mm x 1.5 Mercedes-Benz Adapter used in conjunction w/ the ATF Filler System. Applicable to 722.9 automatic transmissions. Individual adapter included (does not include pump, container, hose, or shut-off valve).

**\*ATF 100102** 

STORAGE LID

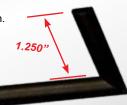
Storage Lid for ATF Filler



**\*ATF 102** 

DRIVE LINE FILLER SYSTEM ADAPTER FOR BMW, HONDA & NISSAN

Adapter used in conjunction w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete 1.250 Set, see #ATF 1002 BASIC. For the complete ATF Filler System Set, see #ATF 1100-5.



**\*ATF 104** 

LONG DRIVE LINE FILLER SYSTEM ADAPTER FOR



Long VW/Audi Adapter used in conjunction w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete VW/Audi Set, see ATF 1033-5 VW. For the complete ATF Filler System Set, see ATF 1100-5.

**\*ATF 108V** 

**VOLVO DRIVE** LINE FILLER ADAPTER



Drive Line Filler Adapter applicable to some 2007 & newer Volvo models that use a 5/16 - 24 threaded plug.



\*ATFTOY118

MADE IN USA

TOYOTA & LEXUS DRIVE LINE FILLER ADAPTER

Applicable to: 2005-2010 models: 4 Runner, FJ Cruiser, Sequoia, Tacoma & Tundra.





**\*ATF 101003 \*ATF 101005** \*ATF 101010

ATF CONTAINERS

Containers Available Individually 3 Liter - #ATF 101003

5 Liter - #ATF 101005 10 Liter - #ATF 101010



18mm x 1.5 Adapter used in conjunction w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve).



System



OIL CHANGE TOOLS

**#2124** 

• 24mm w/ 6 Flats

1.8L Ecotec

Steel Construction

#2132

• 32mm w/ 6 Flats

Steel Construction

• Fits 2011 VW TDI

#2175

• 74.5mm w/ 14 Flats

Metal Construction

• Fits VW 1.8T & 2.0L

Non-turbo Engines

· Fits GM Ecotec Engine

Applicable to BMW Models

2004-2008 w/ V8 (N62) & Saturn

Benz applications. The 27mm,

32mm & 36mm hex sizes covers 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

covers many VW, BMW, Toyota,

& Mazda 3. Also covers Dodge

Sprinter & Jeep 3.0L CRD engines

& 1999-2010 Volvo models.

#HD 1474

OIL FILTER

WRENCH

OIL FILTER

#2176

AST

Applicable to: Mazda

2.0L engines & Filter

#LF05-14-302A

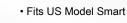
OIL FILTER WRENCH

FOR SMART

80<sub>mm</sub>, 15 Flats. Applicable to: Subaru cars w/ the H6 using factory oil filter #15208AA031, Hyundai cars w/ 4 cyl. & Nissan vehicles using filter #15208H8903 & #1520855Y00 (found in older Sentra & Trucks) MORE 105

**#5040** 

• 66.5mm w/ 14 Flats









#### HYUNDAI **\*HY** 8815 OIL FILTER WRENCH

22mm Hex, 88mm w/ 15 Flats

Fits 2006 & Newer Hyundai Models equipped w/ a V6 & w/ a paper cartridge oil filter Including Azera, Santa Fe & Sonata

Metal Construction





#### MADE IN USA **73mm \*TOY** 730 TOYOTA

OIL FILTER WRENCH

• 73mm w/ 14 Flats

Metal Construction

Fits Toyota 4.7L V8

Factory# Cross Reference

Factory Filter# AST Tool# #04152-38010 #TOY 640 #04152-YZZA1 #TOY 640 #04152-YZZA2 #TOY 640 #04152-YZZA3 #TOY 640 #04152-YZZA4 #TOY 640 #04152-YZZA5 #TOY 640 #04152-YZZA6 #TOY 640 #TOY 730 #90915-YZZD1 #TOY 730 #90915-YZZD3 #90915-YZZF1 #TOY 640 #90915-YZZF2 #TOY 640 #90915-YZZG1 #M 0219

24mm OIL

FILTER SOCKET

32MM OIL

FILTER

SOCKET

**74.5MM OIL** 

FILTER

SOCKET



#2127

• 27mm w/ 6 Flats

100

**#2136** 

Steel Construction

• Fits Mercedes 271 Motor

This set includes our tool numbers \*TOY 640, \*TOY 730 & \*M 0219. w/ the #TOY 300 you have every gas engine Toyota model covered between 1983 & 2011. Aluminum Construction. Hard Plastic Carrying Case Included.

**#TOY 640** 

**27MM OIL** 

FILTER

SOCKET

36MM OIL FILTER

SOCKET

36mm w/ 6 Flats

Steel Construction

• Fits BMW. Ford & VW









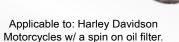
MADE IN USA

94







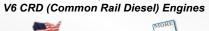






· Applicable to: 2007-2009 Dodge Sprinter, 2007-2011 Mercedes-Benz Turbo-Diesel & the 2007-2009 Jeep Cherokee w/ the 3.0 L







#5063

**\*TOY 640** 

107

**\*M** 0284



HONDA/NISSAN OIL FILTER WRENCH

- 63mm w/ 14 Flats
- Metal Construction
- Fits All Honda Models through 2011 (exc. S2000)











76MM OIL FILTER

WRENCH





• 76mm, 12 Flutes, 3/8" Drive

Metal Construction

• Fits 2007-2011 BMW





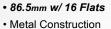




Motorcycles

**\*BM 1276** 

















3.5L V6, 2008–2010 Toyota V8 5.7L,



# **\*M** 0219 74MM OIL FILTER WRENCH & Mazda











109



MADE IN USA









**\*OFHON1**033



- Made of Durable ABS Plastic
- No More Mess
- Threads & Seals Onto the Valve Cover
- Fits: Honda Accord, Civic, Element, Fit, NSX & S2000. All Acura Models (exc. MDX & RDX)
- Fits Most Nissan Models
- Fits Dodge Cummins Turbo Diesel & Neon
- Ford Power Stroke engines (6.9L, 7.3L, 6.0L & 6.4L)
- Fits Some Jaguar Models

**\*OFAUD1000** 





- Fits 1996 & Later BMW 6 cyl. & 8 cyl.
- Fits Dodge Sprinter
- Fits Mercedes 112 & 113 Engines
- Fits VW/Audi Engines: 1.8 T, 1.9 L TDI, 2.0 T, 2.8 L (30 v), 3.0 L (30 v), 3.2 L, 3.6 L & 4.2 L (40 v)
- No More Mess, Attaches Directly to the Valve Cover & Seals just like the Factory Cap

#### **\*OFTOY1038**



- Made of Durable ABS Plastic
- No More Mess
- Threads & Seals Onto the Valve Cover
- · Toyota Oil Funnel used on all Toyota, Lexus & Scion motors w/ a threaded oil cap (exc. Prius)
- Fits Pontiac Vibe



- Made of Strong Polycarbonate
- No More Mess; Attaches Directly to the Engine Oil Filler Neck
- Fits Cadillac CTS; Saturn SL1; Mercury Mountaineer
- Fits Chevy Cobalt, Silverado, Tahoe, Trailblazer & Vans;
- Fits Ford Explorer, F150, Mustang & Taurus;
- Fits GMC Envoy & Sierra
- Fits Pontiac G6 Grand Prix
- Also Fits Some Jaguar Models

# **\*OFSU1042**



- Fits All Subaru Models w/ Threaded Oil Cap (exc. Tribeca)
- Prevents Any Unwanted Mess
- Regular Funnels Do Not Fit Properly
- Made of Durable ABS Plastic

#### **\*OFTOY1001**



- Fits 1999 & newer Toyota & Lexus Models w/ 3.0L & 3.3L V6 Engines w/ 1/4-Turn Style Caps
- No More Mess, Attaches Directly to the Valve Cover & Seals just like the Factory Cap



**#OFHD35** 

AST

VGE TOOLS

- Made of Durable ABS Plastic
- No More Mess
- . Threads & Seals Just like the Factory Cap
- Fits All 2007–2011 Harley-Davidson Dyna & Touring Models



**\*OFHD419** 

#### HARLEY-DAVIDSON OIL FUNNEL

- Made of Durable ABS Plastic
- No More Mess
- Seals Just like the Factory Cap
- Fits All 1999–2006 Harley-Davidson Touring Models
- Fits Push-Style Caps



#OFHD1419

SHOWN HERE IN USE

MADE IN USA

**\*F 2500** 

ENGINE OIL

DIPSTICK

**#CRY**933

**\*M** 7226



• Oil Filter Wrenches are 93mm (36 flutes), 74mm (14 flats) & 76mm (30 flutes)

- Oil Filter Sockets are 24mm & 36mm Hex (6 flats)
- Carrying Case Included
- Set Covers Most 1988-2010 Ford Models
- 5 Year Warranty
- All Tools are 3/8" Drive
- Includes: #M 0219, #F 9336, #F 7630, #2136 & #2124

**\*T 4**0057

#### VW/AUDI OIL FILTER HOUSING DRAIN



Used for draining the oil filter housing. Applicable to: 2005.5-2008 VW/Audi models w/ the 2.0L Turbo engine, (BPY, BPG & BWT) VW 2.5L in-line 5 cylinder engine 2005.5-2011

#6300 **X-1**6

**16MM 12-POINT** TAMPER-PROOF SOCKET

16<sub>mm</sub> 12-point tamper-proof socket for R & R of manual transmission drain plug & Porsche Cayenne & Touareg brake caliper bolts.



**#H 2760** 

**\*T 10066** 

OIL DRAIN & FILLER PLUG WRENCH

HALDEX FILTER

WRENCH



Oil Drain & Filler Plug Wrench.14mm Allen, 17mm box wrench & is used for the R & R of the differential oil filler plug on many BMW & Mercedes-Benz models.

CHRYSLER TRANSMISSION DIPSTICK

#### 42RLE Automatic Transmission:

(KJ) Jeep Liberty (2006–2007); (KK) Jeep Liberty (2008-); (KA) Dodge Nitro (2007-)

#### 62TE Automatic Transmission:

(JS) Dodge Avenger & Chrysler Sebring (2007-)

#### CVT Automatic Transmission:

(MK) Jeep Compass & Patriot (2007-); (PM) Dodge Caliber (2007–)

#### NAG1 Automatic Transmission:

(LC) Dodge Challenger (2008-); (LX) Chrysler 300C, Dodge Charger & Dodge Magnum (2005-); (WK) Jeep Grand Cherokee (2007-)

Used on all vehicles equipped w/ a NAG1, 42RLE, CVT Transmission & the 62TE Transaxle. Note: This tool supersedes the original #9336 A & will work on all previous applications.

722.6 TRANSMISSION DIPSTICK

For checking engine oil level. Applicable to: newer Mercedes-Benz models w/ engines 112,113, 137 & 271.

SPRINTER TRANSMISSION DIPSTICK



Dodge Sprinter & Chrysler Crossfire Transmission Dipstick. Instructions for checking oil level are included.

**\*JA** 9015

#### OIL FILTER WRENCH





Applicable to 2010-2011 Jaguar & Land Rover w/ 5.0L (V8)



**#SU 070** 

#### DRAIN PLUG SOCKET

For R & R of transaxle drain plug. Applicable to: 2003 & newer Subaru Outback w/ manual transmission.

Used for the R & R of the oil filter of the Haldex clutch on Audi TT (O2C & 02M Transmissions).



For checking ATF level. Applicable to: Mercedes-Benz models 1997 & later w/ 722.6 transmission.

AST

**\*M** 0721

**\*SPR** 886

SOCKET

PECIALTY

30<sub>mm</sub> Deep thin-walled socket

used for R & R of transmission

drive shaft flange nut & the

pinion shaft flange nut of

differential on older BMW &

Mercedes, Fits E 90 325 Rear

Wheel Drive axle nuts as well

as Toyota models w/ 30mm, 12

pt. axle nuts.

#6500-14: 14mm Allen for VW Passat

1996-2001, Audi A4; Front & Rear Axle

AST

SOCKETS

Front & Rear Axle Bolts (AWD).

#2124

**24MM HEX** SOCKET

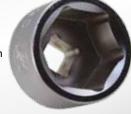
- · 24mm w/ 6 Flats
- Applicable to BMW Models 2004–2008 w/ V8 (N62) & Saturn 1.8L Ecotec
- Steel Construction



32mm OIL

FILTER

SOCKET



#2127

27mm OIL FILTER SOCKET

- 27mm w/ 6 Flats
- Steel Construction
- Fits 2002–2007 Mercedes C230









14mm Allen for VW Passat 1996-2001, Audi A4; Front & Rear Axle Bolts (AWD)

#6500-14

#6500 X-18

#6500 **X-**32



18<sub>mm</sub>, 12-Point Socket w/

a 1/2" Drive. Applicable

to: 2006-2009 VW Golf &

Jetta w/ Independent Rear Suspension (I.R.S.). This tool is used for the R & R of the

rear axle bolt. Comparable to VW #T10162.

**30MM** 12-POINT SOCKET

**36MM 12-POINT** 

SOCKET

17MM ALLEN

SOCKET

#6500 X-30

30<sub>mm</sub> 12-Point Socket for Mid 1999-2005 VW Golf, Jetta. Cabrio & Beetle Front Axle Nuts.



36mm 12-Point 3/4" Drive.

For R & R of axle nuts.

Applicable to: BMW E38,

E39, E46, E53, X5 (front &

rear), the new 5 Series E60

& E90 All Wheel Drive 36mm

Front & Rear.

#6500 X-36

#2132

• 32mm w/ 6 Flats

- Steel Construction
- Fits GM Ecotec Engine
- Fits 2011 2.0 L VW T.D.I



**#H 2592** 





**MULTI-TOOTH** ADAPTER



**\*TOY 185** 

Used for the R & R of the freewheel pulley on the alternator. May be used in conjunction w/ the #S 3054 X-10 socket. Applicable to: Bosch alternators.

Comparable to VW# 3400.

WHEEL

BEARING

NUTSOCKET

For R & R of wheel bearing nut

located on inboard side of wheel

hub. Applicable to: Newer Toyota

trucks & SUV's (2WD only).

**#2136** 

36MM OIL FILTER SOCKET

- 36mm w/ 6 Flats
- Fits BMW, Ford, VW & Newer Volvo 3.2L

32mm socket used for removing & installing

the BMW Vanos Solenoid valves.

Comparable to BMW #116420.

3/4" drive Pin Wrench Socket.

Used to secure the retaining

ring during replacement of ball

joints. Applicable to: Mercedes

163 M-Class front & rear axles.

Steel Construction



**\*BMW 432** 

**\*M** 3857



**VANOS** 

SOCKET

SOLENOID

PIN WRENCH

SOCKET FOR

**MERCEDES** 

M-CLASS













TOYOTA AXLE

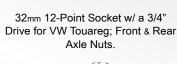
NUT SOCKET

**14MM ALLEN** 

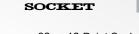
SOCKET

**18MM 12-POINT** 

SOCKET













36MM 6-POINT DEEP SOCKET

#S 56-36



36mm 6-Point Deep Socket, 3/4" drive. For R & R of transmission output flange nut on BMW. Applicable to: BMW models: 2001 & newer E46 & E39 w/ 6 cylinder engines using standard transmission S5D 260Z/310Z/320Z

(exc. M3 or M5).

**\*TOY 105** 

HEAD BOLT SOCKET



Head bolt socket for Toyota Paseo, Tercel & other Toyotas that use a #8 bi-hexagon socket.

For R & R of transaxle drain plug. Applicable to: 2003 & newer Subaru vehicles w/ manual transmission.



MADE IN USA

MADE IN USA

SPARK PLUG SOCKET

14mm, 12-Point Spark Plug Socket w/ 3/8" drive. Applicable to 2007 & later BMW 135, 335, 535 & X6 w/ 3.0L twin-turbo motors. Also works on 2007 & newer Turbocharged Mini Coopers. Comparable to BMW #121220. NOTE: Spark Plug

> #SP1412 SHOWN HERE ON





#S 55-46

46mm, 6-POINT SOCKET

46mm 6-Point thin-wall socket, 3/4" drive. For R & R of front wheel bearing retainer nut on E24, E28, E32 & E34 chassis.

# **#SU 070**

MADE IN USA

#BMW 432

SHOWN HERE IN USE

39mm 12 point 1/2" drive socket. For R & R of the axle nuts. Applicable to: 2008-2011 Toyota Landcruiser, Seguoia & Tundra. Also fits 2008-2011 Lexus LX 570.

**\*SP1412** 

Socket is slender in design to fit application.

3000-4 K

#3004X

S 3054 X-10

AST

#6300

#6300 X-14



VW/Audi models **14MM 12-POINT** 

shaft bolts on VW Beetle, Jetta TDI & older

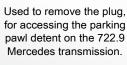
#6300 XL-14



14mm 12-point Long Socket for R & R of late model Eurovan axle shafts & ball joints. Fits VW Touareg inner CV bolts.

**T-100 3/4" DRIVE** SOCKET

**\*H 1012 T-100** 





19mm ALLEN #H 985-19 SOCKET

19<sub>mm</sub>, 1/2" Drive Allen

Socket

VW/AUDI/PORSCHE SOCKET & BIT SET

Applicable to: R & R

of Audi TT differential

bracket & for bell

housing bolts w/ tight

clearance on various

8mm 12-POINT LONG

SOCKET

LONG SOCKET

VW models.

#6300 XL-14: For R & R of Late Model Eurovan Axle Shafts & Ball Joints; #6300 XL-8: For R & R of Axle Shaft Bolts on VW Beetle, Jetta

TDI & Older VW/Audi Models; #6300 XL-10: For R & R of Axle Shaft

Bolts on 1999-2005 VW Passat & Golf: #6300 X-16: For R & R of

Manual Transmission Drain Plug & VW Touareg & Porsche Cayenne

Brake Caliper Bolts; #6300 X-12: For 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; #3424 Spreader for Assisting R & R of Strut Housing on VW & Audi TT.

**14mm 12-POINT** 

SOCKET BIT

Contains: T-6 through T-45 6-Point Tamperproof® Torx; T-10 through T-50 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.

6-PIECE ALLEN

SOCKET SET

This 6-piece allen socket set includes: 2.5mm, 3mm, 4mm, 5mm,

6mm & 8mm 1/4" drive sockets. Rail Included.

This #10 Polydrive Head Bolt Socket has a 1/2 inch drive, is

155mm long & is applicable to most 1998 & later VW/Audi engines.

Comparable to VW #3452 & #T 10070

\*40 POLYDRIVE HEAD

BOLT SOCKET

HEAD BOLT SOCKET

FOR MERCEDES

**40-PIECE SOCKET SET** 

**W/1/4" DRIVE** 



#3000

#3000-6 K

#3462

Applicable to: R & R of axle shaft bolts on newer VW Jetta (gas) & rear toe adjustment on 1999 & later Audi A6 & for bell housing

bolts w/ tight clearance on

various VW models.



**12MM 12-POINT** 

SOCKET BIT

#6300 X-16

#6300 XL-10

#3424

#6300 **X-12** 

16mm 12-point tamperproof® socket for R & R of manual transmission drain plug & Porsche Cayenne & VW Touareg brake caliper bolts. Comparable to VW #3357



**16MM 12-POINT** 

TAMPER-PROOF SOCKET

**10MM 12-POINT** LONG SOCKET



10mm 12-point Long Socket for R & R of axle shaft bolts on VW

Passat & Golf (new body style).

SPREADER



Used for the R & R of the front shock Applicable to: VW & Audi TT.





absorber tube from the wheel bearing housing.



**12MM ALLEN** SOCKET

#H 985-12

# HEAD BOLT #H 2579-9 SOCKET

This 4-piece, 12-point, 1/4" drive socket set includes: 4mm,

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

This 4 piece allen socket set includes: 4mm, 5mm, 6mm

& 8mm 1/4" drive sockets. Rail Included.

4-PIECE ALLEN

SOCKET SET

**4-PIECE, 12-POINT,** 

DRIVE SET

#9 polydrive head bolt socket, 1/2 inch drive. Applicable to: most 1998 & later VW & Audi engines using aftermarket headbolts that are smaller than the #3462 application.

**10MM 12-POINT** 



10mm 12-point, 140mm long socket used for R & R cylinder head bolts. Applicable to: OM 601, OM 602 & OM 603; 2003-2007 Pontiac Vibe, 2003-2007 Toyota Matrix w/ 1.8 L I-4. Also used on VW & Audi head bolts that are 10mm, 12-point.

**\*S 3054 X-12** 

**\*H** 992 **SLG-T**55

12MM 12-POINT SOCKET

140mm long. Applicable to: Toyota; For R & R of cylinder head bolts on 2003 Toyota 4Runner w/ V6 engine, all 2ZZ engines (4-cyl, 4-valves w/ VVT) including 2000-2001 Toyota Celica & 2001-2006 Highlanders w/ 2AZ-FE engines. VW/Audi; Older VW/Audi models w/ 12mm 12 point head bolts. Fits Mercedes OM 615, 616, 617, M 102, M 103.

T-55 Torx head bolt socket for Mercedes. Applicable to:

Mercedes models w/ motors M112 & M113.



12mm Allen Socket, 1/2" Drive

SOCKET

Female torx socket.

Applicable to: Front

axle nut on Mercedes

4Matic models, new

C-Class (204), New

E-Class (212), & new

S-Class (221).

10-Point Socket. Applicable to: Honda rear lower control arms.

32mm 12-Point Socket w/ a 3/4" Drive, VW Touareg; Front & Rear Axle Nuts

#100-30 A

30mm DEEP SOCKET 30mm Deep thin-walled socket.

> pt. axle nuts. Used for R & R of transmission drive shaft flange nut & pinion shaft flange nut of differential on older BMW & Mercedes. Fits E 90 325 Rear

Wheel Drive axle nuts.

#S 54 X-14

**14mm 12-POINT** SOCKET

**BMW TORX** 

FLYWHEEL

SOCKET TOOL

For removal & replacement of flywheel bolts. Applicable to: E34 & E39 V8 4.0L & 4.4L w/ standard transmission.

Comparable to BMW# 114180.



14mm 12-Point Socket. 1/2" Drive. Ideal for rear brake caliper bolts on 2006 & newer Passat & Jetta.

**\*T 40028** 

CAMSHAFT ADJUSTING SOCKET

Camshaft Adjusting Socket used to adjust variable valve timing on the exhaust side camshaft to basic position. Applicable to: Audi 3.0 L V6 5V. Used in conjunction w/ \*T 40011, \*T 40026 & \*T 40030. For complete 3.0L V6 5v set, see #T 4306.



14mm Allen for VW Passat 1996-2001, Audi A4; Front & Rear Axle Bolts (AWD). Overall length 37mm.

#6500 X-18

#6500-14

#6500-17

#6500 X-32



18mm, 12-Point Socket w/ a 1/2" Drive. Applicable to: 2006-2009 VW Golf

& Jetta w/ Independent Rear Suspension (I.R.S.). This tool is used for the

R & R of the rear axle bolt. Comparable to VW #T10162.

14MM ALLEN SOCKET

**\*BMW** 377

**\*BMW** 060

7<sub>MM</sub> ALLEN SOCKET



7mm, 3/8" Drive allen socket. Applicable to BMW E36, E46, E39 & E31 models, Mercedes S-Class (221) & C-Class (204). For R & R of rear caliper bolts.

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

TORX SOCKET INSERT



This T-30 torx is for the R & R of the airbag from the steering wheel & is applicable to many BMW, Mercedes-Benz, Saab & VW models.

SOCKET

17MM ALLEN SOCKET

**18MM 12-POINT SOCKET** 



17mm Allen for 1998 & Later VW Passat, 1999-2004 Audi A6, 2002-2005 Audi A4; Front & Rear Axle Bolts (AWD). Overall length 38mm.



32mm 12-Point Socket w/ a

3/4" Drive for VW Touareg;

Front & Rear Axle Nuts.

SOCKET

30mm 12-Point Socket for Mid 1999 & Later VW Golf, Jetta, Cabrio & Beetle Front Axle Nuts.



**\*H** 2925

E12 TORX SOCKET



Used for outside Torx headbolts on BMW M42 & M50 engines.

#H 4556



Used for the R & R of the delivery valve on Mercedes-Benz Diesel injection pumps. Applicable to: 601, 602, 603, 605, 606. 615, 616 & 617 diesel engines.

**T-50 TORX** 

SOCKET

TOYOTA AXLE NUTSOCKET

**32MM 12-POINT** 

SOCKET



Sequoia & Tundra. Also fits 2008-2011 Lexus LX 570.

**36MM 12-POINT** SOCKET

**30MM 12-POINT** 

#6500 X-36



36mm 12-Point 3/4" Drive. For R & R of axle nuts. Applicable to: BMW E38, E39, E46, E53, X5 (front & rear), the new 5 Series E60 & E90 All Wheel Drive 36mm Front & Rear.

**\*VW** 5220

#10 Polydrive socket for camshaft adjuster bolt on VW/Audi 2.0L Turbo (BPY) engines.

Comparable to VW

#T40080



**\*S 1054 TX T-50** 

Used for the R & R of the fly wheel bolts. Applicable to: BMW E34 3.0L V8 engines.



39mm 12 point 1/2" drive socket. For R & R of the axle nuts. Applicable to: 2008-2011 Toyota Landcruiser,

WHEEL BEARING NUT SOCKET

**\*TOY 185** 



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



LE

SOCKETS Fits Toyota models w/ 30mm, 12

#6500 X-30

UBARU TOOLS



105

• Applicable to: 1984-2011







Camshaft alignment tool for Subaru. Constructed from lightweight aluminum. Applicable to: 2.5L DOHC non-turbo engines. Comparable to Subaru tool #499207300.

Note: Only 1 \*SU 250 is required to do the job



**\*SU 3625** 





DRAIN PLUG

SOCKET

TANK

ADAPTER

• Applicable to: 2001–2011

Used for Pressurizing the Cooling System

Subaru 6-Cyl. Models

For R & R of transaxle drain plug. Applicable to: 2003 & newer Subaru Outback w/ manual transmission.

# **\*SU 6514**

**#SU 070** 





67mm w/ 14 flats. Used on new **Subaru** Factory oil filters w/ the part number of #15208AA12A.

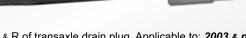


OIL FILTER MORE **\*SU 8015** WRENCH 105

#SU 8015 SHOWN HERE ON FILTER

80<sub>mm</sub>, 15 Flats. Applicable to: Subaru models w/ the H6 using factory oil filter #15208AA031, Hyundai models w/ 4 cyl. & Nissan models using filter #15208H8903 & #1520855Y00 (found in older Sentra & Trucks)













Used to hold the camshaft pulley on 2002-2005 Impreza WRX w/ 2.0 Turbo.

Note: This tool will not fit the 2005 2.0 Turbos w/ Variable Cam Timing. IMPORTANT NOTE: Some 2.5L turbo Subaru motors require both the #SU 3625 & #SU 200T. Look closely at cam gears & pulleys.

#### SUBARU CAMSHAFT PULLEY HOLDER

MADE IN USA

SUBARU OIL

FUNNEL



• Applicable to: All Subaru Models w/

Threaded Oil Cap (exc. Tribeca)

• Regular Funnels Do Not Fit Properly

• Prevents Any Unwanted Mess

SU 200T

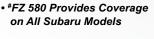
**\*SU 200T** 

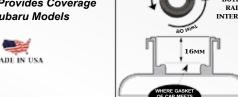


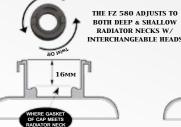
Used to hold the Camshaft sprockets on 2005 & newer Subaru models w/ the 2.5L Turbo & the 3.6 L 6 cyl. engines.

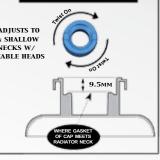
Comparable to the Subaru #499977500. IMPORTANT NOTE: Some 2.5L turbo Subaru motors require both the #SU 3625 & #SU 200T. Look closely at cam gears & pulleys.

#### COOLING SYSTEM ADAPTER SET FOR DEEP & SHALLOW RADIATOR NECKS









SHALLOW NECK (blue)

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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki & Toyota.

**\*OFSU1042** AST

SUBARU TOOLS

YOTA TOOLS

#8026

Used for disconnecting the fuel

line from the fuel rail. Applicable

to: 2004 & newer Nissan &

Toyota Models. Constructed of

green-anodized aluminum.

Works w/ Many Different Asian

Fits Toyota w/ Small/Shallow Necks

Fits 4-Cyl. Camry, Fits Yaris & FJ Cruiser

/16" NISSAN

FUEL LINE

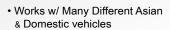
DISCONNECT

TOOL

106

TANK

DAPTER



• Fits Toyota w/ Small/ Deep Necks







**#FZ 128** 

TANK ADAPTER

- · Works w/ Many Different Asian & Domestic vehicles
- Fits Toyota w/ Small/ Deep Necks
- Fits Camry w/ V6











**FZ 148** 

TANK ADAPTER

For pressurizing cooling system. Applicable to: Toyota Celica GT-S 2000, MR2 Spyder 2000, Prius 2001-2010, 2006-2009 RAV 4, 2007 Lexus LS 460 & 2008 Highlander Hybrid.







SHALLOW NECK (blue)

**#FZ** 580

**\*FZ 138** 

& Domestic vehicles

COOLING SYSTEM ADAPTER SET FOR DEEP & SHALLOW

MADE IN USA



DEEP NECK (black) THE FZ 580 ADJUSTS TO BOTH DEEP & SHALLOW RADIATOR NECKS W/ INTERCHANGEARI E HEADS

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. The broad range of applications include: Acura, Chrysler, Dodge, Eagle, Ford models (Explorer, Festiva, Tempo, Villager, Windstar, Sport-Trac), Geo, Honda, Hyundai, Infiniti, Izuzu, Lexus, Mazda, Mitsubishi, Nissan, Subaru, Suzuki & Toyota.

TOYOTA/LEXUS DRIVE LINE FILLER SET

> **#ATF 1018 TOY** SHOWN HERE IN USE ON A 4RUNNER



- Includes Quick Attachment Adapter #ATFTOY118
- · Pump Dispenses Efficiently
- Filler Can Handle 90 Weight Oil
- On / Off Ball Valve w/ Safety Catch
- · Applicable to: 2005-2010 4Runner, FJ Cruiser, Seguoia, Tacoma & Tundra
- Container Made of UHDP (ULTRA HIGH DENSITY POLYETHYLENE)



TOYOTA & LEXUS OIL FILLER



Fits 1999 & Newer Toyota & Lexus Models w/ 3.0L & 3.3L V6 Engines w/ 1/4-Turn Style Caps

No More Mess, Attaches Directly to the Valve Cover & Seals just like the Factory Cap

# **\*OFTOY1**038

TOYOTA OIL FUNNEL



Toyota Oil Funnel used on all Toyota, Lexus & Scion motors w/ a threaded oil cap (exc. Prius).



TOYOTA/LEXUS **\*ATFTOY118** DRIVE LINE FILLER ADAPTER

Toyota/Lexus Drive line Filler Adapter used in conjunction w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). Applicable to: 2005-2010 4Runner, FJ Cruiser, Sequoia, Tacoma & Tundra.

MADE IN USA

#S 440-27

27mm CROWFOOT SOCKET

> Used for R & R of 4 Wheel Drive Switch on transfer case or transmission. Applicable to: **1996–2002** Toyota Tacoma & 4Runner.

HEAD BOLT SOCKET

**\*TOY 105** 



Applicable to Toyota Paseo, Tercel, Yaris, Prius & other Toyotas that use a #8 bi-hexagon socket. 1/2" drive, 100mm long.

# VALVE SPRING

DEPRESSOR



MADE IN USA

WHEEL BEARING NUT SOCKET

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



**\*TOY 160** 

**\*TOY 185** 

FOYOTA TOOLS

TOOLS FOR THE PROFESSIONAL TECHNICIAN

Square Drive

 #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

5/8"

Factory Filter# #04152-38010

#TOY 640 #04152-YZZA1 #TOY 640 #04152-YZZA2 #TOY 640 #04152-YZZA3 #TOY 640 #04152-YZZA4 #TOY 640 #04152-YZZA5 #TOY 640 #04152-YZZA6 #TOY 640 #TOY 730 #90915-YZZD1

Factory# Cross Reference

AST Tool#

#TOY 730

#TOY 640

#TOY 640

#M 0219

This set includes our tool numbers #TOY 640, #TOY 730 & #M 0219. w/ the #TOY 300 you have every gas engine Toyota model covered between 1983 & 2011. Cast Aluminum Construction. Hard Plastic Carrying Case Included.

> **#TOY 640** SHOWN HERE OF FILTER HOUSING



MADE IN USA

#201-7

SPRINTER

TRANSMISSION DIPSTICK

5 PC. METRIC STUD PULLER SET

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

#203

9/16"

#### 7 PC. STANDARD SIZE STUD PULLER SET

Includes 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8" stud remover & installer tools.

#202

#### 5 PC. STANDARD SIZE STUD PULLER SET

Includes 1/4", 5/16", 3/8", 7/16", & 1/2" stud remover & installer tools.

**19MM FUEL LINE** WRENCH

#H 4550-2



Applicable: 16 & 20 Foot Mercedes Diesel Trucks; Lines at

Delivery Pump on Cummins Turbo Diesel 5.2L.

# SPRINTER **#FZ** 55

### TANK ADAPTER

# • Fits: 2007–2009 Dodge Sprinter Van

#### • Female 46 x 2.5mm Buttress Threads



TANK



#FZ 25

ADAPTER

• Fits Volvo Trucks w/ 47 x 3mm threads on the filler neck, Volvo, Mini Cooper, Jeep, Land Rover, Renault & Saab

# MADE IN USA







**\*FZ** 36

CAP ADAPTER

Applicable to Freightliner & International Trucks





**\*TOY 1914** 

#90915-YZZD3

#90915-YZZF1

#90915-YZZF2

#90915-YZZG1

TOYOTA

SERPENTINE BELT

WRENCH

Toyota serpentine belt wrench equipped w/ 14mm & 19mm, 12 point secured attachments. Applicable to: 1998-2005 Corolla, 2004 Matrix, 2008 Highlander V6 (Non Hybrid), 2002 RAV4 &

4.7L/5.7L V8 used in Tundra & Sequoia through 2008.

**\*M** 0219

**\*TOY 640** 

**\*TOY** 730

### 74MM OIL FILTER WRENCH

• 74mm w/ 14 Flats

 Applicable: Toyota 4Runner, T100, 1998-2004 Tacoma (V6) & 1998-2007 Sienna

Aluminum Construction







#### 64мм ТОУОТА OIL FILTER WRENCH

• 64mm w/ 14 Flats

• Applicable: 2007-2011 Toyota 5.7L V8 & 3.5L V6 & 2005-2007 Avalon (V6)

• Fits Filter Housing #15620-31050

Fits 2010-2011 4.6 L V8







73MM TOYOTA OIL FILTER

WRENCH • 73mm w/ 14 Flats

 Metal Construction • Applicable to Toyota 4.7L V8

Fits 1992-2006 Lexus ES 300 & 330





















TANK

ADAPTER

• Applicable to: Volvo trucks w/



**\*SPR** 886

Dodge Sprinter & Chrysler

Crossfire Transmission

Dipstick. Use in conjunction

w/ factory repair literature

to get correct fluid level

measurements. Equivalent to the factory

Chrysler #8863B.

**#FZ 22** 









**\*TOY 200** 

A/C CLAMP REMOVER

MADE IN USA



A/C Clamp Remover for removing special air condition line clamps. Applicable to: 1998 & newer Toyota models w/ the new style A/C clamps. Comparable to Toyota Tool #09870-00015 & #09870-00025.

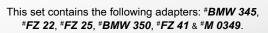






OLVO TOOLS





## **\*EU 2090**

Applicable: 2010 & Newer Volvo front caliper slide bolts







36mm OIL FILTER SOCKET

- 36mm w/ 6 Flats
- Applicable to: 2005 Volvo 40 & 50 Series (new body) & New 3.2L
- Steel Construction



#FZ 47







- Applicable to: 2004-2005 Volvo S40 & V50 (new body style), 2008-2011 All Models
- Used for Pressurizing the Cooling System



**\*TA 18** 





For brake master cylinder or clutch master cylinder reservoirs. Used in conjunction w/ pressure bleeder (pressure bleeder attachment thread size of 1/4" NPT).



# **\*V 450**

**VOLVO BRAKE** PISTON ADAPTER

3/8" Drive. For turning in the rear brake caliper piston. Applicable to: 2005 New body Volvo 40 & 50 Series.





#### **FZ 22**

 Applicable to: Volvo Truck Models w/ 48 x 3mm Male Threads on the Filler

Neck of the Expansion Tank · Used for Pressurizing the Cooling System





MADE IN USA

TANK ADAPTER

#### TANK ADAPTER #FZ 25

- Fits Volvo Cars & Trucks w/ 47 x 3mm Threads on the Filler Neck; Volvo XC90
- Used for Pressurizing the Cooling System







**VOLVO DRIVE** 

LINE FILLER

ADAPTER

MADE IN USA



Volvo Drive Line Filler Adapter. Applicable to: some 2007 & newer Volvo using 5/16 x 24 threaded plug.





# **\*H 2223 LG T-30**

TORX SOCKET INSERT



T-30 torx. Used for R & R of the airbag from the steering wheel. Applicable to: many BMW, Mercedes-Benz, Saab, VW & Volvo models.

## **\*V 410**

86.5mm OIL FILTER WRENCH

- 86.5mm w/ 16 Flats
- Applicable to: 1999-2006 Volvo Models (exc. newer 40 & 50 Series & 3.2L In-line 6 Cyl. see #2136)







**\*V 722** 

VOLVO ECU RELEASE KEY



Used to remove the ECU from the body mount. Applicable to: 2001-2011 V70 XC, XC70, C70 & 2000-2011 V70, 2000-2011 V70 XC, 2000-2011 S80, XC90, V70, S60, C70 Convertible & S70.



Includes 5mm, 6mm, 7mm & 8mm Flexible Nut Drivers. Use the #3700 to tighten & loosen the hard-to-reach hose clamps on various makes & models. 5-year warranty. Blue handle constructed of tough composite plastic.



### 7-PIECE OIL FILTER WRENCH SET

**#2101** 

#3700

AST

VOLVO TOOLS











Contains oil filter wrench sockets for many domestic & foreign applications. Covers all Mercedes-Benz applications. The 27mm, 32mm & 36mm hex sizes covers 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 covers many VW, BMW, Toyota, & Mazda 3. Also covers Dodge Sprinter & Jeep 3.0L CRD engines & 1999-2010 Volvo models.

## **\*V** 500

This tool is used for the alignment of the camshafts & crankshafts on

CAMSHAFT & CRANKSHAFT ALIGNMENT TOOL

used to align the camshafts w/ the cam cover.

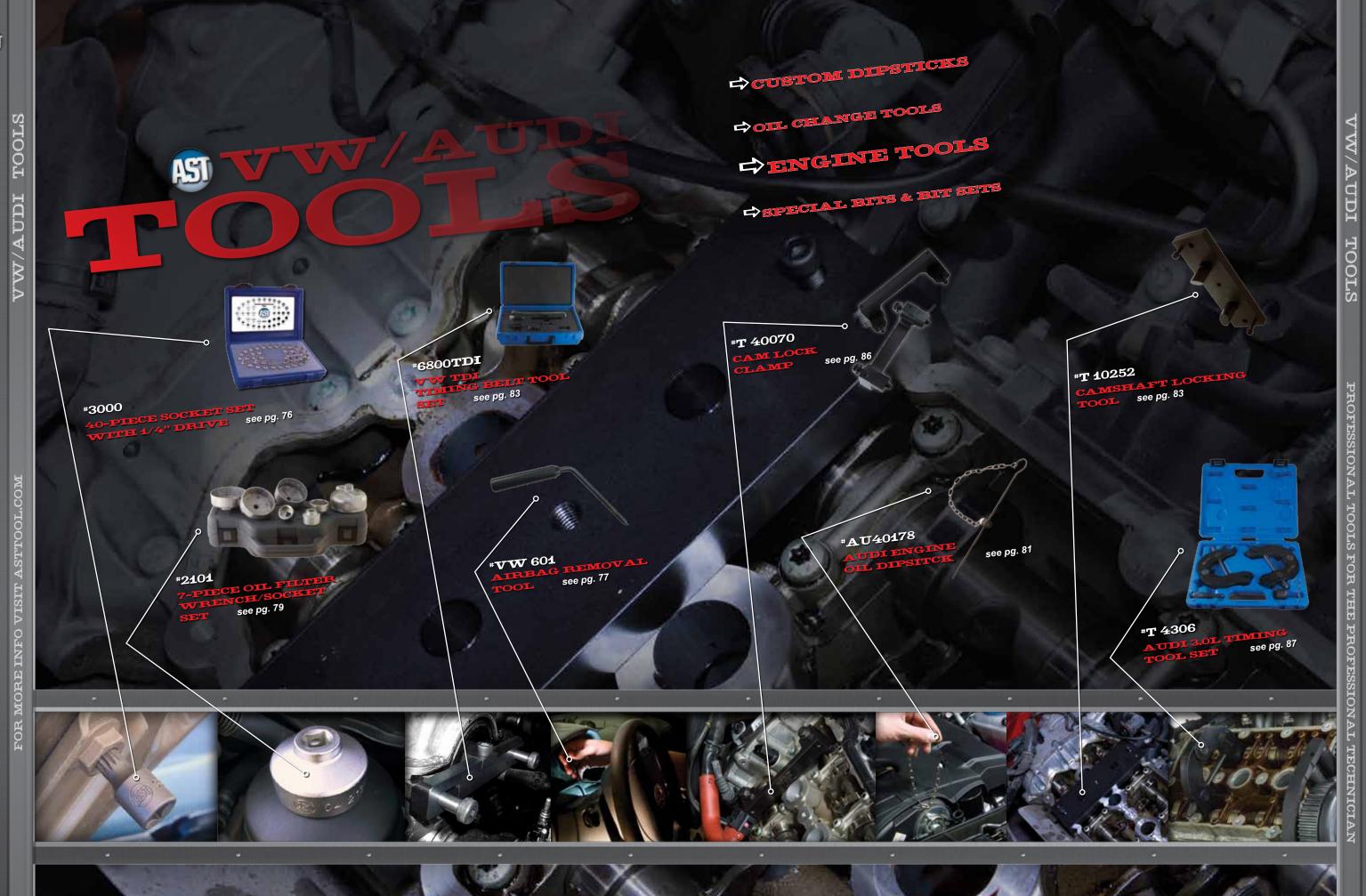
#### Engines:

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

Volvo in-line 4, 5 & 6 cyl. twin cam motors through 2006. May also be







#3000-4 K

This 4-piece allen socket set includes: 4mm, 5mm, 6mm & 8mm 1/4" drive sockets. 5 LOBE TAMPER-#3900 PROOF BIT SET 5 Lobe Bits & 1/4" Drive. Contains: T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45 & T-50. Includes Case. #3101 8-PIECE RADIO REMOVAL SET

**4-PIECE ALLEN** 

SOCKET SET

Set includes the #2040, #BMW 050, #3344 A (includes two pair), #M 2070, #3316, #BMW 025 & the #BMW 010. Applications include: Ford & VW models w/ a 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 New body 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).

### **40-PIECE SOCKET SET W/1/4" DRIVE**

#3000

#3000-6 **K** 

#3200

**#7200** 

Contains: T-6 through T-45 6-Point Tamperproof® Torx; T-10 through T-50 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.

6-PIECE ALLEN

SOCKET SET

This 6-piece allen socket set includes: 2.5mm, 3mm, 4mm,

5mm, 6mm & 8mm 1/4" drive sockets.

CAMSHAFT PULLEY

HOLDER

EUROPEAN

Compact solution to accessing the special

fasteners found on the door hinges & handles of

VW/Audi. Mercedes-Benz & Porsche. Includes:

four door hinge 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.

DOOR/HINGE HANDLE SET

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.



This tool is used to access the door handle fasteners on some Mercedes-Benz models. Applicable to: newer VW Golf, Jetta, Beetle & Passat & 2001-2004 C-Class w/ 203 chassis

T-20 T-HANDLE DRIVER

RADIO REMOVAL TOOL

#2040

#3200 **T-2**0



Radio removal tool for VW, Audi, Ford & Saab radios w/ DIN chassis.

T-6 TORX BIT #3200 T-6

> Used for the R & R of door handle fasteners

on VW Touareg as well as Porsche Cayenne.

RADIO REMOVAL KEYS



Used for removing the factoryinstalled radio. Applicable to: 1998-2005 VW Passat, 1999-2005 Jetta & Golf w/ vertically aligned key slots.

TORX SOCKET INSERT

**#H 2223 LG T-30** 

**\*H** 8808**-1**0

#3316



T-30 torx. Used for R & R of the airbag from the steering wheel. Applicable to: many VW/Audi, Mercedes-Benz, Saab & BMW models.

#7200 SHOWN

**10MM 12-POINT** SOCKET

10mm, 12-Point Allen Socket, 3/8" Drive. Used during R & R of the door hinges on VW & Audi models. The socket's overall height is 43mm. Applicable to: new VW Beetle, new body VW Jetta & late model VW Golf w/ 10mm, 12-point door hinge bolts.

This tool is used to access the door handle fasteners on some

Mercedes-Benz models. Applicable to: 2000-2004 Mercedes

S-Class w/ 220 chassis. Also used for R & R & adjustments of headlamps on 1999-2004 Audi A6.



**T-30 TORX** 

SCREWDRIVER

T-45 TORX BIT

Used for the R & R of door hinge fasteners.

#3200 T-45

#3200 T-30

AST

**4MM 12-POINT** SCREWDRIVER BIT

#3200 X-4



1/4 inch hex drive bit. Used for the R & R of 4mm door handle screws. Applicable to: VW Golf, Jetta, Passat & New Beetle.

RADIO REMOVAL

#3344 A



Used for radio removal on Audi A4, A6, A8 & VW new Beetle through 2005 w/ horizontally aligned key slots. Two pair of #3344 A's are required for most newer VW/ Audi models.

Comparable to VW# T 10057.

#3810

6-PIECE FILE SET

Set includes six files & a protective case. Files are 7 3/8" in length.

AIRBAG REMOVAL TOOL

**\*VW** 601



Used to remove the driver's side airbag from the steering wheel on 1999-2004 VW Passat, Jetta, Golf & Beetle where torx head screws are no longer used.

TOOLS

#3101



Set includes the #2040, #BMW 050, #3344 A (includes two pair), #M 2070, #3316, #BMW 025 & the #BMW 010. Applications include: Ford & VW models w/ a DIN chassis, BMW models w/ anti-theft radio, Audi A4, A6, A8 & new VW Beetles, 1992 & later Mercedes 129, 140, 163, 202 & 210 models, VW new body 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).



This set contains the following adapters: #BMW 345, #FZ 22, #FZ 25, \*BMW 350, \*FZ 41 & \*M 0349.

**FZ 22** 

MADE IN USA

TANK ADAPTER

 Applicable to: 1978–1993 VW/Audi w/ Male Threads on Filler Neck of Expansion Tank & Audi A8/S8



#2040





RADIO REMOVAL TOOL



Radio removal tool for VW, Audi, Ford & Saab radios w/ DIN chassis.



RADIO REMOVAL #3344 A TOOL



Used for radio removal on Audi A4, A6, A8 & VW New Beetle through 2005 w/ horizontally aligned key slots. Two pair of **#3344 A**'s are required for most newer VW/ Audi models.

Comparable to VW# T 10057.

**\*S 1556 N** 

WIRE TERMINAL EXTRACTOR



This tool is used to remove flat terminals w/ two release tangs from the connector plug. (1mm wide, 2.5mm apart) #FZ 41

TANK ADAPTER

• Fits All 1999-2011 Audi Models (exc. A8 & S8-see \*FZ 22)

• Fits All 1999-2011 VW Models

· Also Fits w/ Porsche Cayenne











Used for removing the factoryinstalled radio. Applicable to: 1998-2005 VW Passat. 1999-2005 Jetta & Golf w/ vertically aligned key slots.

**\*S 1553 N** 

WIRE TERMINAL EXTRACTOR

RADIO REMOVAL KEYS



This tool is used to remove flat terminals w/ one release tang from the connector plug.

**#S 1591 N** 

WIRE TERMINAL EXTRACTOR



This tool is used to remove flat terminals w/ two release tangs from the connector plug. (1.65mm wide, 2.8mm apart)

7-PIECE OIL FILTER WRENCH 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 & 1999-2010 Volvo models.





• 36mm w/ 6 Flats, 3/8" Drive

Applicable to: VW/Audi VR-6 Engines & 2006-2008 Golf, Jetta, Passat & EOS w/ 2.0L Turbo

Steel Construction



TENSIONER

RELEASE TOOL

#3299 A

**\*2101** 

Serpentine Belt Release Tool. Applicable to: 2002-2005 Audi A4 w/ 3.0L V6 engines & 2002-2004 Audi A6 w/ 3.0L V6 engines.

Used for camshaft alignment. Applicable to: VW VR-6 engines w/ 2v per cylinder.



#3268

 $\mathbf{VR}$ -6 CAMSHAFT RULER

#2136

74.5MM OIL FILTER WRENCH

• 74.5mm w/ 14 Flats · Applicable to:

1.8L 5v Turbo

Aluminum Construction

FUEL PUMP #3307 WRENCH



Wrench for removal & installation of the fuel pump on 1998-2005 VW Passat, 2002-2004 Audi A4 (AWD) 1999-2004 Audi A6.

MADE IN USA

LOCKING PIN

This tool is used to lock the crankshaft in T.D.C. position on VW & Audi 2.7L & 2.8L V6 engines, & 4.2L V8 w/ timing belt.

AST

AUDI TOOLS

**#2175** 

#3242

#3391

VW/Audi 2.8L V6 engines w/

two valves per cylinder.

MADE IN USA

#6639 shown

AUDI

ENGINE OIL

DIPSTICK

Applicable to: 2009-2010 Audi

A4, A5 & A6 w/ Engines 2.0L

TFSI, 3.2L FSI & 4.2L FSI. Fits

2010 S4 3.0L Supercharged.

Chart to read dipstick included.

Wrench w/ 14 Flats Applicable: 2005-2011VW 2.5L Motors, 2009-2011 VW/ Audi All Models w/ 2.0L Turbo: 1999-2008 Beetle (1.9 L TDI), Golf (1.9L TDI) & Jetta (1.9 L TDI).

See **#2132** for 2011 2.0 L T.D.I.

#S 54 X-12

12mm 12-Point Socket, 1/2" Drive, 65mm Length. Fits Porsche 911, 914, 928, 944 & VW type 2 flywheel bolts.



Used when removing & installing the timing chain adjuster. Applicable to: VW/Audi 4, 6 & 8 cyl. engines w/ 5v per cylinder.

#3359

TDILOCK PIN

This injector pump locking pin is used for 1999-2006 VW TDI engines. Used in conjunction w/ #3428, #T 10100 or #**T 10050** depending on

model year of TDI.

#3369



SUPPORT GUIDES



Guides for holding front lock carrier in service position. Applicable to: Audi A4 & A6; VW Passat 1998 until end of 9/2000.

#6632

VW/AUDI COIL PACK PULLER

Used for removing & installing coils w/ power stage. Applicable to: 2008 Audi Q7 3.6L, 2007 Audi TT 3.2L V6, VW 2.8L VR6 (4v) engines & VW Touareg w/ 3.2L V6. Comparable to VW #T10095A.

#6700

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



Set contains the #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 to: VW & Audi models w/ a 1.8 Turbo Motor.

**\*342**8

TDI CAM LOCK BAR

This tool is used to hold both camshafts in T.D.C. position.

Applicable to: VW/Audi V6, 2.8 & 2.7L engines w/ 5v per cylinder. For the 3.0 V6 used in Audi models see #T 40030 or #T 4306.

CAMSHAFT

ALIGNMENT

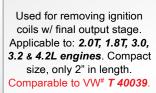
TOOL



Used for locking the camshaft on 1999–2003 VW TDI without removing the valve cover. Replaces the old style #3418. Used in conjunction w/ the #3359. Comparable to VW #T 10098 A.

#6639

VW/AUDI COIL PACK PULLER



#8032

32MM FAN CLUTCH WRENCH



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

#H 1849-6

SPARK PLUG CONNECTOR REMOVER



This tool is used for spark plug boot removal. Applicable to: VW VR6 engine & older 2.0L motors. Comparable to VW# T10029.

WRENCH

SPANNER



Used for adjusting the tension of the timing belt. Applicable to: 4 cyl. VW Golf & Jetta through 1998, 4 cyl. VW Passat, Corrado, 1.9L TDI VW models through 1997. Comparable to VW #V 159

> TIMING BELT SPANNER WRENCH



TIMING BELT SPANNER WRENCH



Used for adjusting the timing belt tension. Applicable to: 1999 & later VW Golf, Jetta, Passat & 1999-2003 VW Beetle w/ 2.0L gas engine, 1.9L T.D.I. diesel engine & 2006-2008 VW/Audi 2.0T (BPY). Comparable to VW #**T 10020** 

SOCKET

**\*H** 2579-9

#H 2587

#H 2587-1

**#H 2587-2** 



#9 polydrive head bolt socket, 1/2 inch drive. Applicable to: most 1998 & later VW & Audi engines using aftermarket headbolts that are smaller than the #3462 application.

MULTITOOTH

ADAPTER

Used for the R & R of the freewheel pulley on the alternator. This tool may be used in conjunction w/ #S 3054 X-10 Socket. Comparable to VW #3400.

NOTE: For torx head fasteners,

see #S 1054 TX T-50.

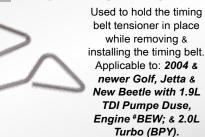
109

**12MM 12-POINT** SOCKET

Fuel line pliers for VW fuel lines w/ plastic snaptogether connectors. Applicable to: 1999 & later VW w/ plastic release-style lines.

**\*T 10115** 

#### TENSIONER LOCKING PINS



**\*T 40011** 

#### 3-PIECE LOCKING PIN SET



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

**\*T 40026** 

### CRANK LOCK PIN



Crank lock pin used to lock the crankshaft at TDC position when replacing the timing belt. Applicable to: Audi 3.0L V6 5V. Used in conjunction w/ **#T 40011**, **#T 40028** & #**T 40030**.

**\*T 40028** 

#### CAMSHAFT ADJUSTING SOCKET



Camshaft Adjusting Socket used to adjust variable valve timing on the xhaust side camshaft to basic position. Applicable to: Audi 3.0L V6 5v. Used in conjunction w/ #T 40011, #T 40026 & #T 40030.



#S 3054 **X-1**0

#### **10MM 12-POINT** SOCKET



10mm, 12-Point Socket, 140mm long. Used for R & R of cylinder head bolts. Used on VW & Audi head bolts, 10mm, 12-point. Most VW & Audi applications 1998 & newer require the #3462 Head Bolt Socket.

**\*T 10050** 

#### CRANKSHAFT STOP



Used to lock the crankshaft in place during timing belt replacement on 2004-2005 VW TDI Pumpe Duse. Used in conjunction w/ #3359, #H 2587-1 & #T 10115.



**\*T 10100** 



**\*T 40001** 

**\*T 40005** 

**\*T** 40030

Puller used to remove cam

sprockets. Applicable to: VW

4 cyl. TDI, VW/Audi V6 (5v)

& Audi V8 (40v).

NOTE: Inquire about

separate arms for 2.0L turbo.

Used to lock the crankshaft #T 10100 in place during timing belt replacement. Applicable to: 4-Cyl. 1.9L & 2.0L, 2v & 4v diesel engines equipped w/ oval crankshaft pulley.

PULLER



#T 10050 IN USE

CRANKSHAFT STOP (OVAL PULLEY DIESEL)

Used for setting & adjusting the cam/crank/pump timing on 1999-2008 VW TDI engines. Includes: #3359 TDI Lock Pin, #3428 TDI Cam Lock Bar, #H 2587-1 & #H 2587-2 Timing Belt Tensioner Spanner Wrenches, #T 10115 Tensioner Lock Pins,

32MM OIL FILTER SOCKET



(32mm,6 flats) 3/8" Drive. Applicable to: 2011 T.D.I. 2.0 L

#2132

**\*VW 5220** 

**CAMSHAFT** ADJUSTER SOCKET



#10 Polydrive socket for camshaft adjuster bolt on VW/Audi 2.0L Turbo (BPY) engines.

Comparable to factory tool #T40080

## VW. AUDI. MERCEDES

- & BMW OIL FILLER Fits BMW 6 & 8 cylinders 1996-Newer
- Fits Dodge Sprinter
- Fits Mercedes 112 & 113 Engines
- Fits VW/Audi Engines: 1.8 T, 1.9 L TDI, 2.0 T, 2.8 L (30 v), 3.0 L (30 v), 3.2L, 3.6L & 4.2L (40 v)
- No More Mess, Attaches Directly to the Valve Cover & Seals just like the Factory Cap





Camshaft Alignment Tool for 2006-2008 VW/Audi 2.0L Turbo Engines (BPY). Used in conjunction

CAMSHAFT LOCKING TOOL

with: #VW 5220, #T 10115 & #H 2587-2.

**CAMSHAFT ALIGNMENT** FIXTURE

Used to hold both camshafts in TDC position while replacing the timing

belt. Applicable to: VW/Audi w/ 40v V8 (5v per cyl) w/ timing belt.

Used in conjunction w/ #3242.

**CAMSHAFT ALIGNMENT** 

TOOL FOR AUDI 40V V8



Camshaft alignment fixture used to hold & align the camshafts. Applicable to: Audi 3.0L V6 5v. 2002-2005 Audi A4 & 2002-2004 Audi A6. Jsed in conjunction w/ \*T 40011, \*T 40026 & \*T

40028. For complete set,

see #T 4306.

MADE IN USA

**VW/AUDIOIL \*T** 40057

## FILTER HOUSING DRAIN



Used for draining the oil filter housing on 2006-2008 VW/ Audi models w/ the 2.0L Turbo (engine codes; BPG, BPY, BWT) & the 2005 1/2-2011 2.5L inline 5 cyl. VW engine.



#T 10050 Crankshaft Stop & #T 10100 Oval Pulley Crankshaft Stop.

 $\mathbf{v}\mathbf{w}\mathbf{r}\mathbf{p}\mathbf{i}$ TIMING BELT TOOL SET

#6800**TDI** 

#T 10050

#T 10100

IN USE

#OFAUD1000

PATENT

ast

• 5 Liter Capacity

· Container Made of

Hose Length 4 ft. 10 in.

For VW/Audi applications. Includes pump, 5 liter container,

hose, shut-off valve, 2 Angled Attachments, a 10 x 1.0

Attachment, 22 x 1.5 Attachment & 24 x 1.5 Attachment

• Used only to Fill, Not to Drain-So Clean Fluid Stays Clean

• Additional 3 & 10 Liter Drums also available

UHDP (Ultra High Density Polyethylene)

Includes DSG & CVT Adapters

• On/Off Ball Valve w/ Safety Catch

Pump Dispenses Efficiently

Used w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete VW/Audi Set, see #ATF 1033-5 VW.

**\*ATF 105** ADAPTER FOR VW/



Used w/ the ATF Filler System. Individual adapter included (does not include pump, container, hose, or shut-off valve). For the complete VW/Audi Set, see #ATF 1033-5 VW.

#6300 XL-14 For R & R of Late Model Eurovan Axle Shafts & Ball Joints #6300 XL-8 For R & R of Axle Shaft Bolts on Beetle, Jetta TDI & Older VW/Audi Models

#6300 X-16 For R & R of Manual Transmission Drain Plug & Touareg & Porsche Cayenne Brake Caliper Bolts

6300 X-12 For R & R of Axle Shaft Bolts on 1999–2005 Jetta (gas) & Rear Toe Adjustment on 1999 & Later Audi A6

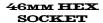
6300 X-14 For R & R of Audi TT Differential Bracket & for Bell Housing Bolts w/ Tight Clearance on Various VW Models

\*3424 Spreader for Assisting R & R of Strut Housing on VW & Audi TT



## #S 55-46

46mm, 6-Point Thin-Wall Socket, 3/4" Drive. For R & R of front wheel bearing retainer nut on E24, E28, E32 & E34 chassis. Also applicable to VW type 2 rear axle shaft nuts.



**\*S** 3054 **X-12** 12mm 12-POINT SOCKET



12mm, 12-Point Socket, 140mm Long. Applicable to: Older VW/Audi models w/ 12mm 12-point head bolts; Used for R & R of cylinder head bolts on 2003 Toyota 4Runner w/ V6 engine, all 2ZZ engines (4-cyl., 4v w/ VVT) including 2000-2001 Toyota Celica & 2001-2006 Highlander w/ 2AZ-FE engines.

**12mm 12-POINT** 

SOCKET BIT

#3104

#### ALIGNMENT PLATE



Used when adjusting the transmission shift linkage. Applicable to: 1985 & newer VW Golf & Jetta w/ 5 speed manual gearbox.

#6300 **X-1**2

12<sub>mm</sub>, 12-Point Socket Bit. Applicable to: the R & R of axle shaft bolts on newer VW Jetta (gas) & rear toe adjustment on 1999 & later Audi A6.



# #6300 **X-1**6

**16MM 12-POINT** TAMPER-PROOF SOCKET



**14mm 12-POINT** 

16<sub>mm</sub> 12-point tamper-proof socket for R & R of manual transmission drain plug & Porsche Cayenne & VW Touarea brake caliper bolts.

#6300 **XL-1**0





**10mm 12-POINT** 

LONG SOCKET

# #6300 XL-8

#6300 XL-14

#6300 X-14

bracket & for bell

VW models.

**8mm 12-POINT** LONG SOCKET



8mm 12-point, 3/8" drive, 90mm long socket for R & R of axle shaft bolts on VW Beetle. Jetta TDI & older VW/Audi models.

#### HALDEX FILTER WRENCH



on Audi TT (O2C & 02M Transmissions)

# bolts on VW Passat & Golf (new body style).

10mm 12-point, 3/8" drive, 90mm long socket for R & R of axle shaft

### **\*T 10066**



14mm 12-point, 1/2" drive 140mm long socket for R & R of late

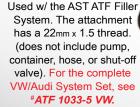
**#ATF 17 CVT** 

**\*ATF 104** 

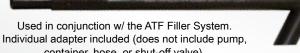
VW/AUDI "DSG"

DRIVE LINE FILLER ADAPTER

### VW/AUDI "CVT" DRIVE LINE FILLER ADAPTER



### LONG DRIVE LINE FILLER SYSTEM ADAPTER FOR VW/AUDI



container, hose, or shut-off valve). For the complete VW/Audi Set, see #ATF 1033-5 VW.

model Eurovan axle shafts & ball joints, Touareg inner CV bolts.

**14mm 12-POINT** 

LONG SOCKET

**\*ATF 16 DSG** 

Used w/ the AST ATF

Filler System. The attachment has a 24mm x 1.5 thread. (does not include pump, container, hose, or shut-off valve). For the complete VW/Audi System Set, see #ATF 1033-5 VW.

SHORT DRIVE LINE **\*ATF 103** 

FILLER SYSTEM ADAPTER FOR VW/ AUDI

10MM  $\times$  1.0 **DRIVE** LINE FILLER SYSTEM



**#6500-17** 





17MM ALLEN

SOCKET

17mm Allen Socket. Applicable to: 1998-2005 VW Passat, 1999-2004 Audi A6, 2002-2005 Audi A4; front & rear axle bolts (AWD).



**30MM 12-POINT** #6500 X-30 SOCKET

1/2" Drive. Applicable to: mid 1999-2005 VW Golf, Jetta, Cabrio & Beetle; front axle nuts.



**\*T 4**0069

VW/AUDI CRANKSHAFT LOCKING PIN



Locking pin to lock crankshaft at T.D.C. Applicable to VW/Audi engines: 2.5L I-5 cyl. (BGP, BGQ, BPR, BPS, CBTA & CBUA) 3.2L V6 4v (BKH & CALA)

#S 54 X-14

14mm 12-Point Socket, 1/2" Drive. Ideal for rear brake caliper bolts on 2006 & newer Passat & Jetta.



**\*TA 18** 

ADAPTER MADE IN USA

For brake master cyl. or clutch master cyl. reservoirs. Used in conjunction w/ pressure bleeder (pressure bleeder attachment thread



14mm Allen Socket. Applicable to: VW Passat 1996-2001, Audi A4; front & rear axle bolts (AWD).



#6500 X-18 18MM 12-POINT SOCKET, **1/2" DRIVE** 

18<sub>mm</sub>, 12-Point Socket w/ a 1/2" Drive. Applicable to: 2006-2009 VW Golf & Jetta w/ Independent Rear Suspension (I.R.S.). This tool is used for the R & R of the rear axle bolt. Comparable to VW Tool

#T10162.



#6500 **X-**32 SOCKET 32mm 12-Point Socket. 3/4" Drive. Applicable to: VW



CAM LOCK

**\*T** 40070

CLAMP



Includes 2 Cam Lock Clamps. Camshaft locking clamp used for setting timing. May be used in conjunction w/ #T 40069.

Applicable to: Audi: 3.2L V6 4v (BKH), 4.2L V8 4v (BAR, BNS, BVJ, BYH & CAUA) & 5.2L V10 4v (BXA & BSM) VW: 2.5L I5 (BGP, BGQ, BPR, BPS, CBTA & CBUA)



Includes the following tools:

3-Pc. locking pin set used to lock the timing belt tensioner while relieving pressure from the belt

**AUDI 3.0L TIMING** TOOL SET

Used to lock the crankshaft at TDC position when replacing the timing belt

Used to adjust variable valve timing on the exhaust side camshaft to basic position

#T 40030

Used to hold & align the camshafts

Applicable to: Audi 3.0 L (V6) 5v, used in 2002-2005 Audi A4 & 2002-2004 Audi A6

VW/AUDI AXLE NUT SOCKET SET

#6500-14 14mm Allen for 1996–2001 VW Passat

Audi A4; Front & Rear Axle Bolts (AWD) #6500-17

17mm Allen for 1998–2005 VW Passat, 1999–2004 Audi A6 2002-2005 Audi A4; Front & Rear Axle Bolts (AWD)

#6500 X-30 30mm 12-Point Socket for Mid 1999-2005 VW Golf, Jetta, Cabrio & Beetle; Front Axle Nut

#6500 X-32 32mm 12-Point Socket w/ a 3/4" Drive, VW Touareg;

Front & Rear Axle Nuts

NOTE: For 2006-2009 VW Jetta & Golf Rear Axle Bolt, order #6500 X-18 separately (see pg. 86)



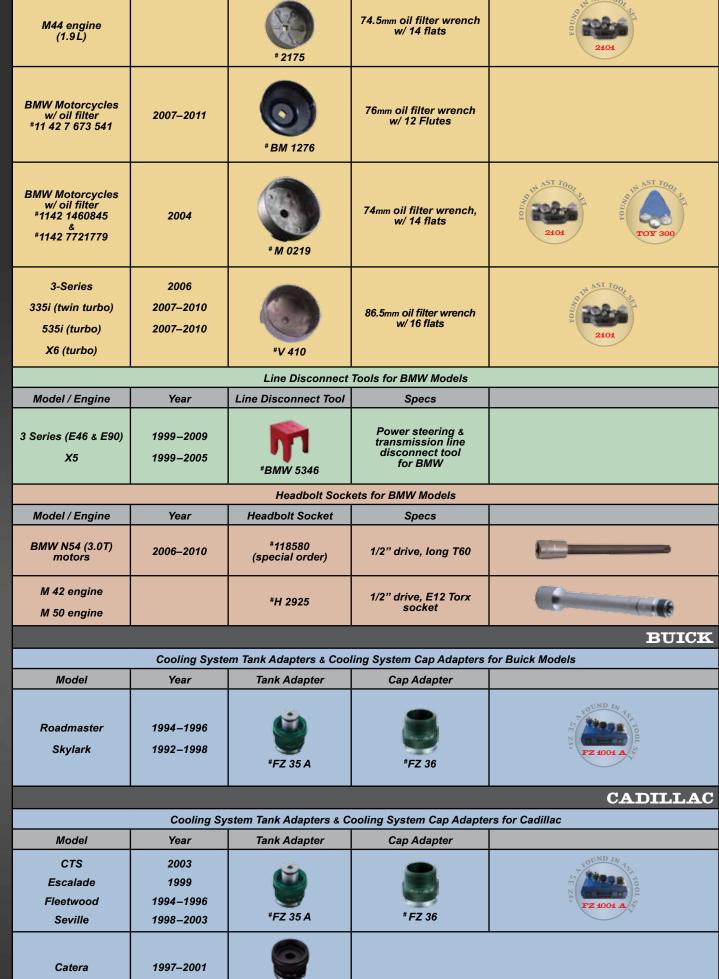
**\*T 4306** 

AST

W/AUDI

TOOLS

ACURA			_	
	Cooling Syste	m Tank Adapters & Coo	ling System Cap Adapters	for Acura Models
Model	Year	Tank Adapter	Cap Adapter	
Woder	Tear	Tarik Adapter	Сар Айаріег	
Integra	1990–1993	#FZ 128	#FZ 29	FZ 1001 A
Integra Legend TL	1994–1999 1991–1996 2007	*FZ 138		FZ 4001 A
		Oil Filter Wi	renches for Acura	
Model / Engine	Year	Oil Filter Wrench	Specs	
All models		*5063	63mm oil filter wrench, w/ 14 flats	
AUDI				
		DIEASES	SEE VW/AUDI	
DIMET BY		PLEASE	SEL VVV / AUDI	
BENTLEY				
			ing System Cap Adapters f	or Bentley Models
Model	Year	Tank Adapter	Cap Adapter	
Arnage	2000–2003	*FZ 34		FZ 4001 A
BMW				
	Cooling Syste	em Tank Adapters & Coo	ling System Cap Adapters	for BMW Models
Model	Year	Tank Adapter	Cap Adapter	
All models	1989 – 2005	тапк Ацаріег	Cap Adapter	
3 Series	2004–2005	(0)		TANT TOOK
7 Series	2002–2006			
X3	2005–2006	#DUIM 0.45		FZ 1002
X5	2005–2006	#BMW 345		
3 Series	2006–2011			wh h.
5 & 6 Series	2004–2011	0		Stoner IN 41
X5	2007–2011			<u> </u>
X6	2009–2011			FZ 1002
7 Series	2010–2011	#BMW 350	#BMW 352	
		Oil Filter Wrend	thes for BMW Models	
Model / Engine	Year	Oil Filter Wrench	Specs	
5 & 7 Series (V8) X5 (V8)	2004–2011 2004–2011	*2124	24 <sub>mm</sub> oil filter socket w/ 6 flats	F 2500
M52 engine M60 engine M62 engine M70 engine M73 engine	1992–2005	*2136	36mm oil filter socket w/ 6 flats	2401



#FZ 32 A

M73 engine



ı								
		Line Disconnect Tools for Cadillac						
4		Model / Engine	Year	Line Disconnect Tool	Specs			
ı		CTS	2003–2004	*8021	Used for R & R of oil cooler lines	8440		
П		CHEVROLE	T					
		Cooling System Tank Adapters & Cooling System Cap Adapters for Chevrolet Models						
į	<i>!!</i>	Model	Year	Tank Adapter	Cap Adapter			
Ī	KIR	Metro	1989–1994					
PPLICATION CHAI	CHA	Nova Prizm Spectrum Sprint Tracker	1985–1988 1989–1992 1985–1988 1985–1988 1989–1993	#FZ 128	#FZ 29	FZ 1001 A		
	CA	Metro Prizm Tracker Aveo	1998 1998 1998 2009	#FZ 138	PZ 4001 A			
	A	Rorotta	1002_1006					

CILLVITOLDI							
Cooling System Tank Adapters & Cooling System Cap Adapters for Chevrolet Models							
Model	Year	Tank Adapter	Cap Adapter				
Metro	1989–1994						
Nova	1985–1988	2		FOUND IN AC.			
Prizm	1989–1992	day.		2º Branch			
Spectrum	1985–1988	No. of		FZ 1001 A			
Sprint	1985–1988	#FZ 128	#FZ 29				
Tracker	1989–1993	10.10					
Metro Prizm Tracker	1998 1998 1998			FZ 1001 A			
		#FZ 138					

2009	
1992–1996	
1999	
1995–1996	
1995–1999	
2005–2007	
1992–1996	
1999–2011	
2011	
2010	
	1999 1995–1996 1995–1999 2005–2007 1992–1996 1999–2011 2011

Express

Impala SS

Malibu

Malibu Hybrid Metro Prizm Silverado 1500 Silverado 2500 Suburban Tahoe Tracker Trailblazer

Van (Duramax 6.6L diesel)





1997–1999	
2009	
1999	
1999	
1999–2011	
1999–2011	
2000–2011	
1999–2011	
1999	
2001–2011	

2010-2011

1994-1996



Line Disconnect Tools for Chevrolet					
	Line Disconnect Tool	Specs			

Model / Engine	Year	Line Disconnect Too
Tahoe Suburban	2002–2004 2002–2004	*8022

2007-2011

Used for R & R of fuel filters



				CHRYSLEI		
Cooling System Tank Adapters & Cooling System Cap Adapters for Chrysler						
Model	Year	Tank Adapter	Cap Adapter			
Colt	1984–1992			OUND IN		
Laser	1991–1998			No. of the last of		
Stealth	1991–1996	The same		TR LOCAL SEE		
Talon	1991–1998	#57.420	#FZ 29	FZ 1001 A		
Talon	1991-1990	#FZ 128				
Colt Summit	1993 1993–1995	#FZ 138		FZ 4001 A		
		Oil Filter Wre	enches for Chrysler			
Model / Engine	Year	Oil Filter Wrench	Specs			
Crossfire 3.2L (V6)	2004	#M 0219	74mm oil filter wrench, w/ 14 flats	2101 TOY 300		
				DAEWO		
	Cooling System	n Tank Adapters & Cooli	ng System Cap Adapters fo	or Daewoo Models		
Model	Year	Tank Adapter	Cap Adapter			
All models	1999–2001	*FZ 34		FZ 1001 A		
				DODGI		
	Cooling Syste	m Tank Adapters & Cool	ling System Cap Adapters i	for Dodge Models		
Model	Year	Tank Adapter	Cap Adapter			
Sprinter Van	2007–2009	#FZ 55				
		Oil Filter Wrenc	hes for Dodge Models			
Model / Engine	Year	Oil Filter Wrench	Specs			
Sprinter (2.7L 5-cyl.)		*2175	74.5mm oil filter wrench w/ 14 flats	2401		
Sprinter (3.5L 5-cyl.)	2007	#M 0219	74 <sub>mm</sub> oil filter wrench w/ 14 flats	2401 TOY 300		
Sprinter 3.0L V6 CRD	2007–2010	(6)	84mm oil filter wrench w/ 14 flats, 22mm hex	2401		

#M 0284





Line Disconnect Tools for Dodge Models						
Model / Engine	Year	Line Disconnect Tool	Specs			
Ram Pickup w/ V10 or Cummins Turbo Diesel	1995–2007	*8016	Used for R & R of Oil & Transmission Cooler Lines	2 SHO ST TOOL		

			Eme Disconnect	Tools for Boage Models	
	Model / Engine	Year	Line Disconnect Tool	Specs	
	Ram Pickup w/ V10 or Cummins Turbo Diesel	1995–2007	#8016	Used for R & R of Oil & Transmission Cooler Lines	S SHID
	FORD				
מ		Cooling Syste	em Tank Adapters & Coo	oling System Cap Adapters	for Ford Models
K.T.D	Model	Year	Tank Adapter	Cap Adapter	
AL	Escort	1991–1999			
d	Explorer	1995–1999			
3	Explorer (Sport Trac)	2004			
7	Festiva	1988–1993			
N	Ranger	2003			OF ROUND IN AN
T.T	Thunderbird	1989–1992			1700
1	Thunderbird (V6)	1993–1997			FZ 1001 A
5	Тетро	1992–1994	#FZ 128	# <b>FZ</b> 29	
1	Topaz	1992–1994			
Ļ.	Villager	1993–1999			
4	Windstar	1995–1999			
A	Focus	2012	#FZ 47		
	E-Series Van	1995–2003	1271		
	Edge	2009–2011			
	Excursion	2000–2003			
	Expedition	2003–2007			
	Explorer	2002–2005			
	Five Hundred	2005			
×	Focus	2006			
234£3	Freestyle	2005			
	F-Series	1995–2011	#FZ 32 A	#FZ 36	
523	Sterling	2005			
1-800-525-	Taurus	1996–2011			
1-8	Thunderbird	2003			
	Thunderbird (V8)	1993–1997			
	Windstar	2002–2003			
П					ANT TOO.
ı	Contour Focus	1995–1997 2000–2006			FZ 1001 A
			#FZ 34		
	Contour Escape	1998–2001 2001–2005	#FZ 37		FZ 1001 A

ł	Model / Engine
i	Escape Hybrid
	Focus (2.3L)
	Fits OEM filters
	FL910 & FL973
Ī	Fusion (2.3L)
Ī	
ĺ	F-Series
	F250
	Turbo Diesel
	F350 Turbo Diesel
	Models w/ Motorcraft filte #FL400S
	Models w/ Motorcraft filte #FL500S
_	Models w/
	Motorcraft filte #FL2005
!	
	Models w/ Motorcraft filte
	#FL820S
	Model / Engine
	Mustang
	Aerostar
	Bronco E-Series Van
	E-Series van Explorer
	F-Series
	Ranger
	Aerostar
	Aerostar Bronco
	E-Series Van
	Explorer
	F-Series
	Ranger

1991-2000

1992-2006

1990-1997

1990-1997

1991-2006

1990-2006 1991-2006

1992-2006

Models w/ AXOD & ATX transmissions

2003-2004

2004-2008

2005

Taurus

Escort

Explorer (V8)

F-150

Expedition

#8012

#8013

#8014

#8021

Oil Filter Wrenches for Ford Models						
Model / Engine	Year	Oil Filter Wrench	Specs			
Escape Hybrid	2006–2008			the vertical state of		
Focus (2.3L)  Fits OEM filters: FL910 & FL973	2004–2007		74 <sub>mm</sub> oil filter wrench w/ 14 flats	2401 F 2500		
Fusion (2.3L)	2006–2008	#M 0219				
F-Series	All models	*2124	24mm w/ 6 flats  Used for R & R of fuel filter housing	F 2500		
F250 Turbo Diesel F350 Turbo Diesel	2004	*2136	36mm oil filter wrench w/ 6 flats Also used for R & R of fuel filter	2401 F 2500		
Models w/ Motorcraft filter #FL400S	1981–2009			AST TOOK		
Models w/ Motorcraft filter #FL500S Models w/ Motorcraft filter #FL2005	2009–2010	#F 7630	76mm oil filter wrench, w/ 30 Flutes	F 2500		
Models w/ Motorcraft filter #FL820S	1991–2010	*F 9336	93mm oil filter wrench, w/ 36 Flutes	F 2500		
		Line Disconnect	Tools for Ford Models			
Model / Engine	Year	Line Disconnect Tool	Specs			
Mustang	1995–1996	*8010	Used for the removal of 1/4" return lines on the fuel pump	RH40		
Aerostar Bronco E-Series Van Explorer	1990–1997 1990–1997 1991–2006 1990–2006		For R & R of fuel filter & fuel lines	8410 ST TOO		

For R & R of fuel lines

Used for R & R of oil cooler lines

Used for R & R of oil cooler lines

APPLICATION CHARTS

				HONDA	
	Cooling Syste	m Tank Adapters & Cool	ing System Cap Adapters t	for Honda Models	
Model	Year	Tank Adapter	Cap Adapter		
Accord Civic Motorcycle	1990–1993 1988–1993 1991–2006	#FZ 128	#FZ 29	FZ 1001 A	
Accord Civic Civic Hybrid CRV Element Fit Odyssey Pilot S2000	1994-2009 1994-2005 2004 2009 2008 2009 1999-2009 2003-2008 2008	#FZ 138		FZ 1001 A	
		Oil Filter Wr	enches for Honda		
Model / Engine	Year	Oil Filter Wrench	Specs		
All Honda models (exc. \$2000)	through 2011	#5063	63mm oil filter wrench, w/ 14 flats		
				HYUNDAI	
Cooling System Tank Adapters & Cooling System Cap Adapters for Hyundai Models					
Model	Year	Tank Adapter	Cap Adapter		
All models	1987–1999	#FZ 128	#FZ 29	FZ 1001 A	
Oil Filter Wrenches for Hyundai Models					
Model / Engine	Year	Oil Filter Wrench	Specs		
Azerra Santa Fe Sonata	2006–2009	*HY 8815	88mm oil filter wrench w/ 15 flats, 22mm hex		
4 cyl. models		#SU 8015	80mm oil filter wrench w/ 15 flats		
				INFINITI	
	Cooling Syste	m Tank Adapters & Cool	ling System Cap Adapters t	for Infiniti Models	
Model	Year	Tank Adapter	Cap Adapter		
All models	1992–1999	#FZ 128	*FZ 29	FZ 1001 A	

**JEEP** 

APPLICATION

	Oil Filter Wrenches for Infiniti Models						
Model / Engine	Year	Oil Filter Wrench	Specs				
Models w/ VQ30DE engines M35 & M45 VQ35DE engine	1995–2007 2004–2007	*5063	64mm oil filter wrench w/ 14 flats				
INTERNATIONAL							
Cooling System Tank Adapters & Cooling System Cap Adapters for International Models							
Model	Year	Tank Adapter	Cap Adapter				

	Cooling System	Tank Adapters & Cooling	System Cap Adapters for	International Models
Model	Year	Tank Adapter	Cap Adapter	
Models w/ 466 engine VT 365 engine	1994–2002 2007	#FZ 32 A	*FZ 36	

#FZ 29

## ISUZU

1		Cooling Syste	em Tank Adapters & Coo	ling System Cap Adapters	for Isuzu Models
į	Model	Year	Tank Adapter	Cap Adapter	
	All models	1992–1997			and In
1	D. J. (10)	0004			T Z
	Rodeo (V6)	2001			* FZ 1001 A

#FZ 128

All models	1998–1999	
		#FZ 138

1998-2001

2002-2003



FZ 1001 A

# JAGUAR

XK8

Х Туре

Cooling System Tank Adapters & Cooling System Cap Adapters for Jaguar Models				
Model	Year	Tank Adapter	Cap Adapter	
S Type	2000–2003	#FZ 35 A	#FZ 36	FZ 1001 A
All models w/ male threads on filler neck	1990–1994	#FZ 34		FZ 1001 A
XJ8	1998–2001			ST TOOL

Oil Filter Wrenches for Jaquar Models	

#FZ 37

		Oil Filter Wrenci	nes for Jaguar Models	
Model / Engine	Year	Oil Filter Wrench	Specs	
Jaguar w/ V8 5.0L	2010–2011	*JA 9015	90mm oil filter wrench w/ 15 flats	

## Cooling System Tank Adapters & Cooling System Cap Adapters for Jeep Models Model Tank Adapter Cap Adapter All Models 1987-1990 # FZ 25 Oil Filter Wrenches for Jeep Models Model / Engine Year Oil Filter Wrench Specs Cherokee 3.0L V6 CRD 84mm oil filter wrench w/ 14 flats 2007-2009 # M 0284 LAMBORGHINI

0 " 0 '			
Cooling System	Tank Adapters & Cool	ng System Cap Adapte	ers for Lamborghini Models

cealogo	2007	#FZ 22
---------	------	--------



				LAND ROVER	
Cooling System Tank Adapters & Cooling System Cap Adapters for Land Rover Models					
Model	Year	Tank Adapter	Cap Adapter		
Freelander LR3 Range Rover Sport	2005 2005–2007 2006	*FZ 32 A			
Discovery Series 2 Range Rover	2002 1995–2004	# BMW 345		FZ 1002	
Freelander If vehicle has replacement tank, order #FZ 32 A	2002	*FZ 25		FZ 1002	
Discovery Series 1 Range Rover	1998 1988–1994	*FZ 34		FZ 1001 A	
LR2	2007–2008	#FZ 47			
		Oil Filter Wrenche	s for Land Rover Models		
Model / Engine	Year	Oil Filter Wrench	Specs		
Land Rover models w/ V8 5.0L	2010–2011	*JA 9015	90mm oil filter wrench w/ 15 flats		

MAZDA	AST

	LEXUS									
		Cooling Syste	m Tank Adapters & Coo	ling System Cap Adapters	or Lexus Models		Cooling Syste	m Tank Adapters & Coo	ling System Cap Adapters i	for Mazda Models
	Model	Year	Tank Adapter	Cap Adapter		Model	Year	Tank Adapter	Cap Adapter	
	LS 400 LX 450	1990–1999 1996–1999		1	TOWND IN AST	All Models Protege (automatic)	1985–1999 2000–2001			TOUND TO THE PARTY OF THE PARTY
	LX 470 ES 300	1996–1999 1994–1999	#FZ 128	#FZ 29	FZ 1001 A	6	2004	#FZ 128	*FZ 29	FZ
CHARTS	ES 300 GS 300	1992–1993 1993–1999	<u> </u>		AST TOO	Protege (1.5L engine)	1995	<u></u>		AST TOOL
HA	GS 400 RX 300	1998–1999 2000	*FZ 138		FZ 1001 A	Protege (manual) 5	2000–2001	#FZ 138		FZ 1001 A
			Oil Filter Wrenc	hes for Lexus Models						
Z	Model / Engine	Year	Oil Filter Wrench	Specs		3	2004–2006			
IO	ES 350 (V6)	2007 & Newer						#FZ 47		
APPLICATION	GS 300 (V6) GS 350 (V6) GS 450h (Hybrid) IS 250 (V6)	2006 2007 & Newer 2007 & Newer 2006 & Newer		64mm oil filter wrench	AST TOOK	Tribute	2001–2004	*FZ 37		PZ F2
H	IS 350 (V6)	2006 & Newer		w/ 14 flats	TOY 300			-	thes for Mazda Models	
H	LS 460 (V8)	2007 & Newer	#TOY 640			Model / Engine	Year	Oil Filter Wrench	Specs	
F	LS 600h L (V8)	2008				3 (2.3L)	2004–2006			
	RX 350 (V6)	2007 & Newer				5 (2.3L)	2005–2007			OH AST TOOL
	ES 250 (V6)	1990–1991				6 (2.3L)	All Models		74mm oil filter wrench	Na o
	ES 300 (V6)	1992–2003				CX-7 (2.3 L turbo)	2007		w/ 14 flats	2101
	ES 330 (V6)	2004–2006				Mazdaspeed 3	2006-2007	#M 0219		
	GS 300 (16)	1998–2005				Mazdaspeed 6	2006-2007			
	GS 400 (V8) GS 430 (V8)	1998–2000 2001–2004				Mazda 2.0L engines & filter #LF05-14-302A	All Models			
	GX 470 (V8) IS 300 (I6)	2004 & Newer 2001–2005			ST To			#2176		7.550 C
	LS 400 (V8)	1990-2000			E THE COLUMN TO SERVICE STATE OF THE SERVICE					MERC
43	LS 430 (V8)	2001–2006		73mm oil filter wrench w/ 14 flats	2 ( <b></b>			_	System Cap Adapters for M	ercedes-Benz Model
1-800-525-2943	LX 450 (I6)	1996–1997			TOY 300	Model AMG	Year	Tank Adapter	Cap Adapter	
25.	LX 470 (V8)	1998–2007	#TOY 730			C-Class				
0-5	RX 300 (V6)	1999–2003				CL-Class	1996–2011			
-80	RX 330 (V6)	2004-2006				CLK-Class				
4						CLS-Class	All models shown equipped w/ BLACK, threaded cap			114 A
	RX 400h (V6)	2006 & Newer				E-Class	threaded cap			Žio
	SC 300 (16)	1992-2000				G-Class	For 1998–2005 M-Class see #FZ 32 A			F
	SC 400 (V8)	1992-2000				ML 164	see #FZ 32 A	#M 0349		
	SC 430 (V8)	2002 & Newer				R-Class				
	LINCOLN					S-Class				
		ı	l	ing System Cap Adapters fo	or Lincoln Models	SL-Class SLK-Class				
	Model	Year	Tank Adapter	Cap Adapter		OLIV-Olass				
	Mark VIII Navigator Towncar	1993–1998 1998–1998 1993–1999				ML 320 ML 430	1998–2005 1998–2005		Na. Jar	
			#FZ 32 A	#FZ 36				#FZ 32 A	#FZ 36	

	Cooling System	iii Talik Adapters & Cool	ing System Cap Adapters	or mazua models	
Model	Year	Tank Adapter	Cap Adapter		
All Models Protege (automatic) 6	1985–1999 2000–2001 2004	#FZ 128	#FZ 29	FZ 1001 A	
Protege (1.5L engine) Protege (manual) 5	1995 2000–2001 2007	#FZ 138		FZ 1001 A	APPLIC.
3	2004–2006	<b>©</b> #FZ 47			CATION
Tribute	2001–2004	#FZ 37		FZ 1001 A	CHA
		Oil Filter Wrenc	hes for Mazda Models		ᅜ
Model / Engine	Year	Oil Filter Wrench	Specs		RTS
3 (2.3L) 5 (2.3L) 6 (2.3L) CX-7 (2.3L turbo) Mazdaspeed 3 Mazdaspeed 6	2004–2006 2005–2007 All Models 2007 2006–2007 2006–2007	#M 0219	74mm oil filter wrench w/ 14 flats	2404 TOY 300	01
Mazda 2.0L engines & filter #LF05-14-302A	All Models	*2176			
				MERCEDES-BENZ	rρ
	Cooling System Ta	nk Adapters & Cooling S	System Cap Adapters for M	lercedes-Benz Models	A
Model	Year	Tank Adapter	Cap Adapter		E E
AMG C-Class CL-Class CLK-Class CLS-Class E-Class	1996–2011 All models shown equipped w/ BLACK, threaded cap	<u></u>		AST TOOLS	SALES@ASTTOOL.COM
G-Class ML 164 R-Class S-Class SL-Class SLK-Class	For 1998–2005 M-Class see #FZ 32 A	#M 0349		FZ 4002	MO
ML 320 ML 430	1998–2005 1998–2005	#FZ 32 A	*FZ 36		

		Oil Filter Wrenches t	for Mercedes-Benz Models	
Model / Engine	Year	Oil Filter Wrench	Specs	
All models w/ V6 & V8 For diesel see *M 0284 & *2136	1998–2011	#M 0219	74mm oil filter wrench w/ 14 flats	2101 TOY 300
E 320 3.0L V6 CRD GL 320 CDI ML 320 CDI	2007–2012 2007–2012 2007–2012	#M 0284	84mm oil filter wrench w/ 14 flats	2101
C 230 (4 cyl.) Kompressor	2002–2007	*2127	27mm oil filter wrench w/ 6 flats	2404
OM 604 engine OM 605 engine OM 606 engine		*2136	36mm oil filter wrench w/ 6 flats	2101
M 102 & M 103 engines w/ 12 flute OEM oil filter		#BM 1276	76mm, 12 flutes, 3/8" drive	
		Head Bolt Sockets f	or Mercedes-Benz Models	
Model / Engine	Year	Headbolt Socket	Specs	
M601 engine M602 engine M603 engine		#S 3054 X-10	10 <sub>mm</sub> , 12-point socket	
M112 engine M113 engine M 137 engine		#H 992 SLG-T55	T-55 Torx	
MERCURY				
	l .		ng System Cap Adapters fo	or Mercury Models
Model	Year	Tank Adapter	Cap Adapter	
Cougar Cougar (V6) Tracer	1989–1992 1993–1997 1991–1999	#FZ 128	*FZ 29	FZ 1001 A
Cougar (V8) Crown Victoria Grand Marquis Sable	1993–1997 1993–2003 1993–2003 1996–2003	#FZ 32 A	*FZ 36	

Mystique	1995–1997	#FZ 34		FZ 4001 A					
		Oil Filter Wrenches t	for Mercury Marine Models						
Model / Engine	Year	Oil Filter Wrench	Specs						
4 Stroke (marine applications) 200 motor  4 Stroke (marine applications) 225 motor		*TOY 730	73mm oil filter wrench w/ 14 flats	TOY 300					
	MINI COOPER								
	Cooling System 7	Tank Adapters & Cooling	System Cap Adapters for	Mini Cooper Models					
Model	Year	Tank Adapter	Cap Adapter						
Cooper S	through 2007	#FZ 25		FZ 1002					
		Oil Filter Wrenches	s for Mini Cooper Models						
Model / Engine	Year	Oil Filter Wrench	Specs						
Cooper S		#2136	36mm oil filter socket w/ 6 flats	2101					
				MITSUBISHI					
	Cooling System	Tank Adapters & Cooling	g System Cap Adapters for	r Mitsubishi Models					
Model	Year	Tank Adapter	Cap Adapter						
3000 GT  Diamante  Galant  Mirage  Montero  Outlander	1991–1998 1992–1995 1985–1993 1985–1992 1989–1998 2004	#FZ 128	#FZ 29	FZ 1001 A					
Diamante Eclipse (Spyder) Galant Mirage Montero Sport	1996-1998 2002 1994-2003 1993-1999 1997-1999	#FZ 138		FZ 4001 A					
				NISSAN					
			ing System Cap Adapters f	or Nissan Models					
Model	Year	Tank Adapter	Cap Adapter						
All models 350Z Altima Frontier Maxima Murano Quest Sentra X-Terra	1987-2004 2004 2006-2009 2004-2011 2000-2011 2004 2004 2000-2011 2004	*FZ 128	#FZ 29	FZ 4001 A					

1998-2001

#FZ 37

Mystique

				PORSCHE	
	Cooling Systen	n Tank Adapters & Cooli	ng System Cap Adapters fo	or Porsche Models	
Model	Year	Tank Adapter	Cap Adapter		
Boxster 911 (water-cooled models w/ threaded necks)		#FZ 22		FZ 1002	ı
		Oil Filter Wrench	es for Porsche Models		
Model / Engine	Year	Oil Filter Wrench	Specs		년
924 944		*2175	74.5mm oil filter wrench w/ 14 flats	2101	APPLICATIO
911 Boxster	1999–2008 1997–2008		74mm oil filter wrench	A AST TOOL	NON
Cayenne	2005–2008		w/ 14 flats	2404 TOY 300	
Cayman	2005-2008	#M 0219		101 300	CH
- Cayman				SAAB	
	Cooling Syste	em Tank Adapters & Coo	ling System Cap Adapters		ARTS
Model	Year	Tank Adapter	Cap Adapter		N.
<b>9</b> ³	2003–2004	#FZ 35 A	*FZ 36	FZ 1001 A	ı
900 9000	1978–1994 1986–1998	#FZ 25		FZ 4002	ı
900	1994–1998	#FZ 34		FZ 1001 A	SALE
		Oil Filter Wrend	ches for Saab Models		r@S
Model / Engine	Year	Oil Filter Wrench	Specs		AST
93	2003	*2132	32 <sub>mm</sub> oil filter wrench w/ 6 flats	2401	SALES@ASTTOOL.COM
		Line Disconnect	Tools for Saab Models		A
Model / Engine	Year	Line Disconnect Tool	Specs		
900	Models w/ 5/16" fuel line & fuel rail	*8012	For R & R of fuel filter & fuel lines	S SHAD	
900		*8013	For R & R of fuel lines	8440	

Vibe

2003-2007

#S 3054 X-10

10mm, 12-point

SATURN

Model

All Models

Ion

Vue

LS

Model / Engine

Astra (1.8L)

(4 cyl. Ecotec)

Model

All models

хB

Model / Engine

tC

xΑ

хB

SCION

Year

1990-1999

2005

2003

2000

Year

2008

Year

2008

2009

Year

2005-2011

2004-2011

2004-2011

2008-2011

**SUBARU** 

80mm oil filter wrench w/ 15 flats

67mm oil filter wrench w/ 14 flats

#FZ 29

ng System Cap Adapters for Suzuki Models

ng System Cap Adapters for Toyota Models

g System Cap Adapters for Subaru Models

UND	IN	45%	
	Ų.		100Y

Heavy Truck (Freightliner)	2004	#FZ 35 A	#FZ 36				
	Cooling Syster	m Tank Adapters & Cooli	ing System Cap Ada				
Model	Year	Tank Adapter	Cap Adapter				
All models (4-cyl.)	1984–2011	#FZ 128	#FZ 29				
All models (6-cyl.)	2006–2011	#FZ 138					
		Oil Filter Wro	enches for Subaru				
Model / Engine	Year	Oil Filter Wrench	Specs				
H6 engines w/ filter *15208AA031		*SU 8015	80mm oil filter wr w/ 15 flats				
Subaru Fac- tory oil filters w/ the part number of #15208AA12A.		*SU 6514	67mm oil filter wr w/ 14 flats				
	Cooling System	m Tank Adapters & Cool	ing System Cap Ada				
Model	Year	Tank Adapter	Cap Adapter				
All models w/ 16mm filler neck	1983–1995	#FZ 128					
		72.120					
Cooling System Tank Adapters & Cooling System Cap Ada							
Model	Year	Tank Adapter	Cap Adapter				
4 Runner	1986–1995						
Avalon	1995–2003						
Camry	1983–1989						
Celica	1983–2005						
Corolla	1983–1992						
Cressida	1985–1992						
Land Cruiser	1987–2002	2					
MR2 (Spyder)	1985–1995						
Pickup	1983–1999	Market 1					
Previa	1989–1997						
Previa	1989–1997						

1998-2003

1999-2002

1983-1984 1986-1992

1995-1998 2000-2002

1983-1990

#FZ 128

Sienna

Solara

Starlet

Supra (non-turbo) T100

Tacoma

Tercel

SMART

Cooling System Tank Adapters & Cooling System Cap Adapters for Smart Models

**#TOY 640** 

Model / Engine Oil Filter Wrench Year Specs 66.5mm oil filter wrench All U.S. models 2008 w/ 14 flats #5040

Cooling System Tank Adapters & Cooling System Cap Adapters for Saturn Models

Oil Filter Wrenches for Saturn Models

Cooling System Tank Adapters & Cooling System Cap Adapters for Scion Models

Oil Filter Wrenches for Scion Models

Cap Adapter

#FZ 36

Specs

24mm oil filter socket

w/ 6 flats

32mm oil filter wrench

w/ 6 flats

Cap Adapter

Specs

64mm oil filter wrench

w/ 14 flats

Tank Adapter

#FZ 35 A

#FZ 34

Oil Filter Wrench

#2132

Tank Adapter

#FZ 138

#FZ 148

Oil Filter Wrench

STERLING

Cooling System Tank Adapters & Cooling System Cap Adapters for Sterling Models

Model	Year	Tank Adapter	Cap Adapter	
All models	1987–1991	#FZ 25		FZ 1002

	4 Runner	2003–2005		
	Avalon	2011		
	Camry (V6, A/T)	1990–2007		
	Celica	1990–1998		
	Corolla	1993–2011		
	Echo	2000–2003		
	FJ	2007–2011		
S	Highlander	2001–2011		, ST To
R.1	Matrix	2003		2 1000
CHARTS	Paseo	1992–1999		A Co.
田	RAV4	1996–2003		FZ 1001 A
C	Sequoia	2001–2003	#FZ 138	
Ь	Sienna	2010		
OI	Supra (turbo)	1990–1992		
ĽĪ	Tacoma	2006–2011		
A.	Tercel	1991–1999		
$C_{C}$	Tundra	2000–2002		
	Venza	2011		
H <sub>1</sub>	Yaris	2011		
APPLICATION	Celica (GTS-S)	2000		
7				
	Highlander (Hybrid)	2008		
	MR2 (Spyder)	2000		
	Prius	2001–2010	#57.449	
	RAV 4	2006–2011	#FZ 148	
			Oil Filter Wrench	hes for Toyota Models

		1	1	
Model / Engine	Year	Oil Filter Wrench	Specs	
4 Runner (I4 & V6)	1985–2002			
Avalon (3.0 L V6)	1995–2004			
Camry (4 cyl. & V6)	1984–2006			
Celica (4 cyl.)	1983–1985			
Corolla (l4 diesel)	1984			
Cressida (6 cyl.)	1981–1992			
Highlander (V6)	2001–2008			
Previa (4 cyl.)	1991–1997		74mm oil filter wrench	FOUN
Sienna (V6)	1998-2007		w/ 14 flats	FO
Solara (4 & 6 cyl.)	1999–2008	#M 0219		
Supra (In-line 6)	1979–1998			





Yaris

through 2011

T100 (I4 & V6)

Tacoma (I4 & V6)

Truck / 4Runner (I4)

Tundra (3.4L)

Van 4WD & ATM (I4)

1993-1998

1995-2010

1977-1984

2000-2004

1987-1989

APPLICATION CHARTS

Cooling System Tank Adapters & Cooling System Cap Adapters for Yamaha

74.5mm oil filter wrench

w/ 14 flats



Tank Adapter

#FZ 128

Golf (1.8L Turbo, 2.0L)

Jetta

(1.8L Turbo, 2.0L)

Passat (1.8L Turbo, 2.0L)

All VW/Audi w/ 2.0 L Turbo

Beetle (1.9 L TDI)

All 2.5L 5 cyl.

Engines Golf (1.9 L TDI)

Jetta (1.9 L TDI)

Model / Engine

All models w/#10

polydrive headbolts

All models w/ 10mm

12-point headbolts

All models w/#9 polydrive aftermarket headbolts

Model

All Yamaha watercooled motorcycle / ATV w/ deep neck

All Yamaha watercooled motorcycle & ATV w/ shallow neck

Yamaha motorcycle, ATV, snowmobile &

marine 4-stroke

engines using filter #5GH-13440-00

Yamaha outboard

marine 4-stroke engines, I-4 & V6, 150-250 HP 2006-2008

Year

#2175

#FZ 138

Oil Filter Wre	enches for Yamaha



63mm oil filter wrench w/ 14 flats



73mm oil filter wrench w/ 14 flats



VOLVO						
	Cool	ing System Tank Adapte	ers & Cooling System Cap A	Adapters		
Model	Year	Tank Adapter	Cap Adapter			
Volvo Trucks VN 430 670		#FZ 22		FZ 1002		
XC 90  Passenger vehicles (exc. newer 40 & 50 Series)  Volvo Trucks (w/ 47mm x 3mm threads on secondary filler neck)	1978–2007 1978–2007	#FZ 25		FZ 1002		
All models (exc. XC 90)	2008–2011	#FZ 47				
Oil Filter Wrenches for Volvo Models						
Model / Engine	Year	Oil Filter Wrench	Specs			
All Models (exc. 2005 40 & 50 series)	1999–2006	#V 410	86.5mm oil filter wrench w/ 16 flats	2404		
40 & 50 Series XC 70 (3.2L) XC 90 (3.2L)	2005–2011 2008–2011 2008–2011	*2136	36mm oil filter wrench w/ 6 flats	2101		
VW / AUDI						
	Cooling System	Tank Adapters & Coolin	g System Cap Adapters for	r VW & Audi Models		
Model	Year	Tank Adapter	Cap Adapter			
All VW/Audi models (exc. Audi 8 Series) See *FZ 22 for A8 & S8	1999–2011	#FZ 41		FZ 4002		
Models w/ male threads on exp. tank S8 A8	1975–1993	*FZ 22		FZ 1002		
		Oil Filter Wrenche	es for VW & Audi Models			
Model / Engine	Year	Oil Filter Wrench	Specs			
			1, 222	, CT To		

ION CHART	Passenger vehicles (exc. newer 40 & 50 Series) Volvo Trucks (w/ 47mm x 3mm threads on secondary filler neck)	1978–2007 1978–2007	*FZ 25		FZ 1002
	All models (exc. XC 90)	2008–2011	*FZ 47		
T	Oil Filter Wrenches for Volvo Models				
ζA	Model / Engine	Year	Oil Filter Wrench	Specs	
APPLICATION	All Models (exc. 2005 40 & 50 series)	1999–2006	#V 410	86.5mm oil filter wrench w/ 16 flats	2101
Ä	40 & 50 Series XC 70 (3.2L)	2005–2011 2008–2011	<b>(3)</b>	36mm oil filter wrench w/ 6 flats	A ST TOOTS
	XC 90 (3.2L)	2008–2011	#2136	W C Mato	2404
	VW / AUDI				
	Cooling System Tank Adapters & Cooling System Cap Adapters for VW & Audi Models				
	Model	Year	Tank Adapter	Cap Adapter	
-800-525-2943	All VW/Audi models (exc. Audi 8 Series) See *FZ 22 for A8 & S8	1999–2011	#FZ 41		FZ 1002
	Models w/ male threads on exp. tank S8 A8	1975–1993	#FZ 22		FZ 1002
525			Oil Filter Wrenche	s for VW & Audi Models	
)-OC	Model / Engine	Year	Oil Filter Wrench	Specs	
1-8(	S6 (5.2L) Q7 (4.2L) VW T.D.I. (2.0L)	2007 2011	*2132	32 <sub>mm</sub> oil filter wrench w/ 6 flats	2101
	Corrado (VR-6) EOS (2.0L turbo) Eurovan (VR-6) Golf (2.0L turbo) Golf R32 (3.2L VR-6, 4v) Jetta (2.0L turbo) Jetta (2.8L VR6) Passat (2.0L turbo) Passat (2.8L VR6) Touareg (3.6L) Q7 (3.6L)	2006–2008	*2136	36mm oil filter wrench w/ 6 flats	2401

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30 T-20

30 T-25

30 T-27

30 T-30

30 T-40

30 T-45

30 T-50

200-6

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

201-7

202

203

1200

1201

2040

2101

2124

2127

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2176

3000

3000-4 K

3000-6 K

3004X

3101

3104

3200

3200 T-6

3200 T-20

3200 T-30

3200 T-45

100-30 A

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