

### Upper Arm Alignment Wrenches

These specialized 1/2" drive wrenches provide easy access to the upper control arm bolts for front wheel alignment jobs.

**No. 7414** – 13/16" hex wrench for use on 1985 to '97 Ford Aerostar vans. Wt., 12 oz.

**No. 7534** – 22 mm hex wrench for use on 1990–2005 2WD Chevrolet Astro and GMC Safari, and 1991–2005 AWD Chevrolet Astro and GMC Safari vans. Wt., 12 oz.

**No. 7536** – 3/4" hex wrench for use on 1973 to '87 Chevrolet 2WD pickups, and Canadian-built 1985 to '90 current GM Astro and Safari vans. Wt., 12 oz.

**No. 7537** – 18 mm hex wrench for use on U.S.-built 1985 to '90 GM Astro vans. Wt., 13 oz.

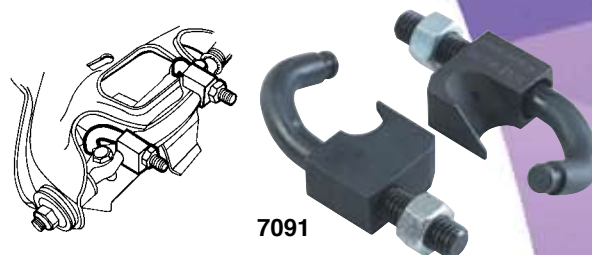


7414 is similar to Ford No. 204-DO13 (D87T-3068-A)

### Ford Caster/Camber Alignment Set

The tools in this set help ensure accurate caster/camber adjustment on the front suspensions of 1979 to 1991 Ford and Mercury full size, rear wheel drive vehicles. They effectively limit movement of the front suspension once the cross shaft bolts are loosened.

**No. 7091** – Ford caster/camber alignment set. Wt., 1 lb., 2 oz.



### Ford 4WD Caster/Camber Sleeve Puller

Rusted or seized bushings are no match for this puller. It easily pulls most aftermarket and OEM bushings on Ford 4WD vehicles. It's the only tool that works on any angle OEM bushing, removing it quickly and without damage. For 1980 to '96 Ford Broncos, full-size E- and F-series vans and pickups; 1983 to '89 Ranger and Bronco II. The puller comes with adapters to pull most aftermarket bushings having removable retaining rings.

**No. 7588A** – Ford 4WD caster/camber sleeve puller. Wt., 1 lb., 14 oz.

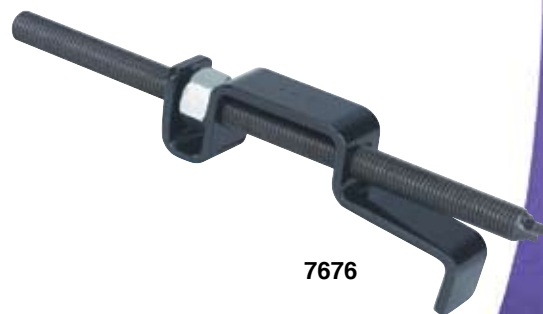
**No. 221476** – Arnwood-style bushing adapter. Wt., 1 oz.



### Alignment Assist Tool

With this tool, you won't need to remove tires to adjust the camber on most GM and some Chrysler FWD vehicles. The tool sits on top of a tire and presses against the strut to prevent the tire from moving, allowing you to do the adjustments. For Chrysler and GM vehicles with slotted strut mounts that don't use eccentric washers on the through slots for camber adjustment. (Applications do not include Buick Park Avenue, Cadillac Fleetwood, Oldsmobile 88 and 98, and Pontiac Bonneville – if they have rear air suspension.)

**No. 7676** – Alignment assist tool. Wt., 3 lbs., 2 oz.



### Tie Rod Adjusting Tool

Here's a tool that will fit most models of compact and standard-size cars and light trucks. It has a four-position feature and 360° rotation that lets you locate the tool to grip the sleeve correctly, even when access is limited.

**No. 7023** – Universal tie rod adjusting tool. Wt., 13 oz.

Similar to Ford No. T79P-3223-A



# AUTOMOTIVE SPECIAL TOOLS

## Suspension & Steering Service



These tools are also available individually.

6275

### Tie Rod/Pitman Arm Adjusting Set

These tools have a unique design that permits 360° rotation of the adjusting sleeve, even where space is limited.

- Accommodates 1/2" drive ratchet or breaker bar.
- Set consists of the following tools in a blow-molded case:
  - No. 7095 – For compact cars with 3/4" diameter adjusting sleeves. Wt., 7 oz.
  - No. 7096 – For full size cars with 7/8" diameter adjusting sleeves. Wt., 7 oz.
  - No. 7097 – For light trucks with 1-1/8" diameter adjusting sleeves. Wt., 8 oz.
  - No. 6274 – For Ford 3/4-ton and 1-ton trucks with 1-13/16" diameter adjusting sleeves. Wt., 10 oz.
  - No. 6084 – Pitman arm adjusting tool for Ford F-250 thru F-450 trucks with 1-7/16" dia. adjusting sleeves. Wt., 7 oz.

**No. 6275** – Tie rod/Pitman arm adjusting set. Wt., 3 lbs.

Similar to  
Ford No. 211-D029  
(D93L-3395-A)



7572

7678

7594

7593

**Important:** When removing and installing inner tie rods, hold steering rack shaft to prevent damage to pinion gear.

### Inner Tie Rod Removal Set

Remove and install inner tie rods without removing steering gear. The adapters fit into the tie rod socket, and a 1/2" drive ratchet or breaker bar fits the drive end.

- Services both old and new style inner tie rods.
- For use on most Chrysler, Ford, and GM vehicles.
- No. 7572 socket is 16" long and is "stepped" to accept 1-3/16" tie rods and 1-5/16" tie rods.
- Nos. 7678, 7593, and 7594 adapters fit into socket and work on 1-3/16", 1-5/16", and 1-7/16" tie rods.

**No. 7595A** – Inner tie rod removal set. Wt., 5 lbs., 2 oz.

**Important:** When removing and installing inner tie rods, hold steering rack shaft to prevent damage to pinion gear.



7572

### 2-in-1 Inner Tie Rod Socket Tool

Using "piggy-backed" sockets, this tool makes short work of inner tie rod removal or installation.

- For use on Ford and Chrysler vehicles with rack and pinion steering.
- Accommodates 1/2" drive ratchet or breaker bar.
- Socket is 16" long and is "stepped" to accept 1-3/16" tie rods and 1-5/16" tie rods.

**No. 7572** – 2-in-1 inner tie rod socket tool. Fits Ford and most Chrysler vehicles with rack and pinion power steering. Wt., 2 lbs., 2 oz.



7593

7594

7678

**Important:** When removing and installing inner tie rods, hold steering rack shaft to prevent damage to pinion gear.

### Inner Tie Rod Adapter Sockets

These sockets enable you to remove and install inner tie rods without removing steering gear. Drive end fits No. 7572 inner tie rod sockets.

**No. 7593** – 1-3/16" socket fits tie rod on Ford FWD vehicles with rack and pinion steering. Wt., 15 oz.

**No. 7594** – 1-5/16" socket fits tie rod on Ford RWD and most Chrysler vehicles with rack and pinion steering. Wt., 1 lb.

**No. 7678** – 1-7/16" socket fits GM and Chrysler FWD cars with Saginaw steering gear. Wt., 1 lb.

### Tie Rod Socket for Medium-Duty Trucks

Here's a heavy-duty tool for removing tie rod ends on Chrysler, Ford, and GM 1-ton trucks. It also works on many medium-duty trucks, Class 2 through 6.

- Accommodates a 1/2" drive impact wrench.

**No. 6065** – Truck tie rod socket. Wt., 1 lb., 8 oz.

6065

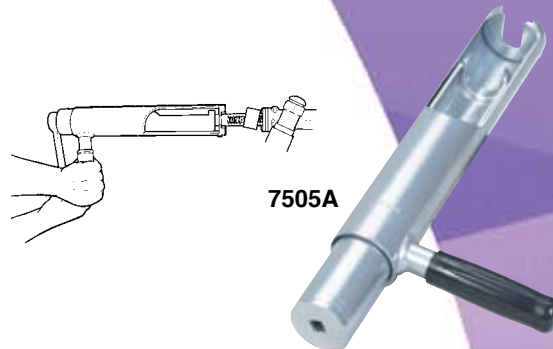


### Inner Tie Rod Tool

Now you can work on inner tie rods without removing the steering gear, saving time and effort. The tool's design has a dual purpose: The outer tube supports the steering rack, preventing damage to the pinion gear. The inner socket fits on the tie rod end.

- For use on Chrysler and GM vehicles with Saginaw steering gear assemblies.
- Accommodates 1/2" drive ratchet or breaker bar.
- Used with No. 7504 tie rod crimping tool.

**No. 7505A** – Inner tie rod tool. Wt., 9 lbs., 7 oz.



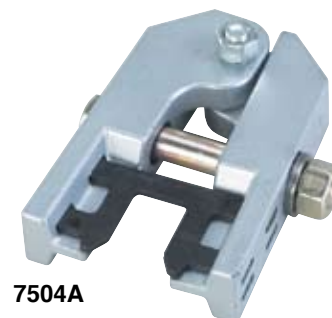
7505A

### Inner Tie Rod Crimper Tool

This handy tool will crimp a tie rod housing to the flats on the rack to keep it from coming loose, while the steering gear remains mounted. It's much easier and neater than the hammer and chisel method.

- For use on GM and Chrysler vehicles having Saginaw steering gear assemblies.
- Used with No. 7505 inner tie rod tool.

**No. 7504A** – Inner tie rod crimper tool. Wt., 2 lbs., 11 oz.



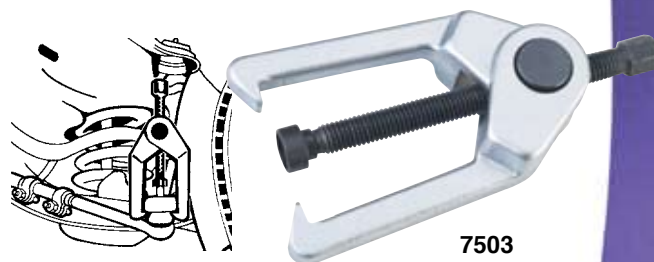
7504A

### Outer Tie Rod Ball Joint Separator

This tool is a must when you're servicing outer tie rods and ball joints on imported and domestic models, front or rear wheel drive, cast or stamped-steel steering knuckles.

- Handles up to 5 tons of force.
- Jaws, once tightened, won't slip on the knuckle.

**No. 7503** – Outer tie rod ball joint separator. Wt., 2 lbs., 12 oz.

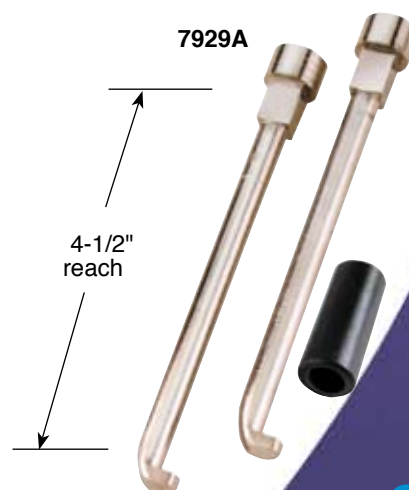


7503

### Steering Wheel Puller Leg Set

- Particularly useful during steering wheel removal when there are no tapped holes in the assembly.
- The 7929A is designed for use with either the No. 7245 or No. 7403 OTC steering wheel puller.
- These legs get behind the steering wheel assembly to provide an even, straight pull. The collar is designed for use on Ford and Chrysler vehicles.
- Works on:
  - 1988–1993 Pontiac LeMans
  - 1997–newer GM cars, SUVs, and light trucks
  - 1997–newer Ford SUVs and light trucks
  - 1999–newer Jeep Grand Cherokee
  - 2003–newer Jeep Liberty
  - 2004–newer Dodge Sprinter van

**No. 7929A** – Steering wheel puller leg set. Wt., 8 oz.



7929A

4-1/2"  
reach

# AUTOMOTIVE SPECIAL TOOLS

## Suspension & Steering Service



7245

### Steering Wheel Puller

This puller removes steering wheels on most domestic and imported vehicles, with or without telescoping steering columns. Five sets of cap screws are included for various thread requirements. The forcing screw features a swivel end to protect steering shaft. Cap screws included (pairs): 3/8-16 x 3-1/2; 5/16-18 x 3-1/2; 5/16-24 x 3-1/2; M8-1.25 x 90 mm; and 5/16-18 x 4 (SIR).

**No. 7245** – Steering wheel puller with five pairs of cap screws. Bar measures 4" x 1" x 1". Wt., 1 lb., 15 oz.



7403

### Steering Wheel, Pulley, and Flywheel Puller

Here's a puller that works in a variety of applications. It pulls steering wheels on most late model cars. It also works as a regular 2/3-way puller to remove pulleys and small engine flywheels. Cap screws included (pairs): 3/8-16 x 3-1/2 in.; 5/16-18 x 3-1/2 in.; 5/16-24 x 3-1/2 in.; M8-1.25 x 90 mm; and 5/16-18 x 4 in. (SIR).

- Works on domestic cars with or without collapsible steering columns.

**No. 7403** – Steering wheel/pulley/flywheel puller. Wt., 1 lb., 10 oz.



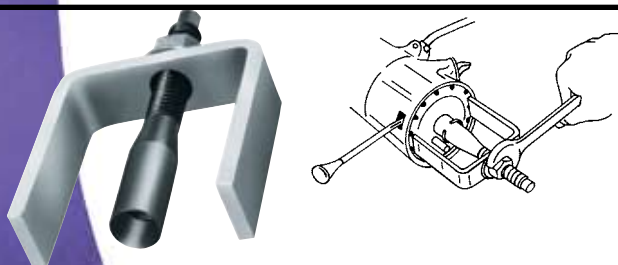
7927A

### Steering Wheel Remover/ Lock Plate Compressor Set

With this set, it's easy to remove the steering wheels of most domestic and imported vehicles, with or without tilt steering columns. Also accesses the turn signal switch and SIR modules on current GM vehicles.

- Includes No. 7815 steering wheel lock plate remover, No. 7889 steering pivot pin remover for Saginaw steering columns, No. 7245 steering wheel puller, plus four sets of cap screws (2 of each size: M8-1.25 x 90 mm, 3/8"-16 x 3-1/2", 5/16"-24 x 3-1/2", and 5/16"-18 x 4").
- Contained in convenient plastic blow-molded case.

**No. 7927A** – Steering wheel remover/lock plate compressor set. Wt., 4 lbs., 5 oz.



7031A

### Steering Wheel Lock Plate Remover

This tool simplifies the removal and installation of round wire snap rings that hold steering wheel lock plates. It's a must for accessing turn signal switches on AMC, Chrysler, and GM model cars, with or without tilt steering columns. Will not work on GM SIR steering columns.

- Also works on metric columns.

**No. 7031A** – Steering wheel lock plate remover. Wt., 1 lb., 8 oz.



7815

### Steering Wheel Lock Plate Remover

This is an essential tool for compressing steering wheel lock plates on AMC, Chrysler, and GM vehicles, with or without tilt steering columns. It's also necessary for accessing the turn signal switch and SIR modules on GM vehicles.

- Also works on metric columns.

**No. 7815** – Steering wheel lock plate remover. Wt., 1 lb., 12 oz.

### Steering Pivot Pin Remover

Tilt steering columns are much easier to service when your tool box has one of these pivot pin removers in it. Works on GM, Chrysler, and Ford vehicles with Saginaw tilt steering columns.

**No. 7889** – Steering pivot pin remover. Wt., 3 oz.

7889

Similar to  
Kent Moore J-21894-01

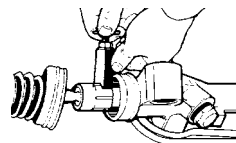


### Ford Lock Pin Remover

Removes tie rod inner socket retaining pin on Ford vehicles with rack and pinion power steering. Replacement tips available separately.

**No. 7122R** – Lock pin remover. Wt., 5 oz.

**No. 37907** – Tip for 7122R. Wt., 1 oz.



7122R



### GM Power Steering Pump Pulley Installer

This tool offers easy, damage-free installation of power steering pump pulleys. It works on 1988–95 GM Quad 4 engines; 1990–94 Chevrolet Lumina APV, Oldsmobile Silhouette, and Pontiac Trans Sport vehicles; 1990–94 3.1L V6 engines; 1994–newer 3100 GM V6; 1999–newer 3400 GM V6. Threads are 3/8–16" to fit pulley shaft threads.

**No. 7209** – GM power steering pump pulley installer. Wt., 7 oz.



7209

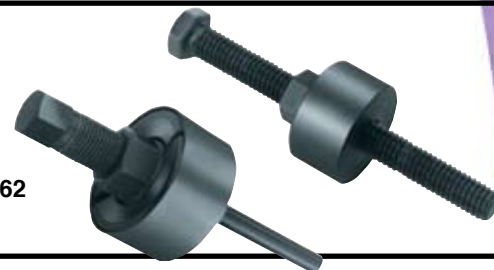
### GM Power Steering Pump Pulley Service Kit

Remove and install the power steering pump pulley easily and without damaging the pump shaft or pulley.

- Includes remover and installer.

**No. 7362** – GM power steering pump pulley service kit. Wt., 1 lb., 3 oz.

7362



### Ford Power Steering Pump Pulley Installer

Installs power steering pump pulleys on 1992–newer Ford Crown Victoria and Mercury Grand Marquis with 4.6 V8 engine, 1997–newer Ford truck with 4.2 & 4.6 V6, 5.4 V8, and 6.8 V10 engines.

- 8 mm x 1.25" threads fit Ford's C111 pump.

**No. 7771** – Ford power steering pump pulley installer. Wt., 1 lb., 8 oz.

7771

Similar to  
211-185



### Ford Air Bag Simulator

Today's air bag systems have self-diagnostic capabilities, but sometimes these internal diagnostics must be serviced or replaced. That's when our air bag simulators come in handy. In fact, it's almost impossible to check and resolve air bag fault codes without such tools. This makes the simulators essential equipment for body shops and other types of service centers.

**No. 7955** – Special one-ohm resistor for use on air bags on Probe vehicles. Wt., 6 oz.

**No. 7956** – Special two-ohm resistor for use on 1993–02 Ford System II air bags. Wt., 6 oz.

**No. 7957** – Special three-ohm resistor for use on Mercury Villager air bag systems. Wt., 6 oz.



# AUTOMOTIVE SPECIAL TOOLS

## Suspension & Steering Service



4681



### Power Steering Pump/ Alternator Remover/Installer Tool

- Reversible 2-in-1 tool removes and installs press-fit alternator and power steering pump pulleys.
- Also removes and installs other press-fit pulleys with a hub diameter of 1-1/8" (28 mm), 1-1/4" (32 mm), 1-5/16" (34 mm), or 1-3/8" (35 mm).

**No. 4681** – Power steering pump/alternator remover/installer tool. Wt., 2 lbs.



4529



### Power Steering/Alternator Pulley Puller/ Installer Set

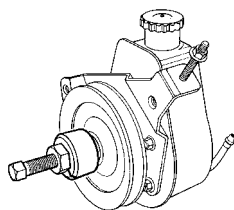
- Properly replaces pressed-on power steering and alternator pulleys on Ford, Chrysler, and late GM engines.
- Housed in a blow-molded plastic storage case.

**No. 4529** – Power steering and alternator pulley puller/installer. Wt., 1 lb., 14 oz.



7185

Similar to  
Ford No. 211-016  
(T69L-10300-B)



### Power Steering Pump/Alternator Pulley Remover

This puller removes pulleys on most Chrysler, Ford, GM, and VW vehicles fitted with Saginaw, Thompson, or Ford's C2 and C111 power steering pumps; GM belt-driven vacuum pumps on cars; and press-on water pump pulleys on GM 4- and 6-cylinder engines. It works on pulleys with hub diameters of 1-1/8", 1-1/4", 1-5/16", and 1-3/8".

- Designed to ensure damage-free removal.

**No. 7185** – Power steering pump/alternator pulley remover. Wt., 13 oz.



4530



### Power Steering Pump Pulley Service Set

- A complete set of tools required to remove and install power steering pump pulleys of most domestic vehicles.
- Fits pulley hubs with diameters of 1-1/8", 1-1/4", 1-5/16" and 1-3/8".
- Includes the necessary adapters for servicing: GM 3.1L, 3100, 3400, and 3800 V6 engines, GM 2.3L Quad 4 four-cylinder engines, and Ford 4.6L & 5.4L V8, 6.8 V10 engines.

**No. 4530** – Power steering pump pulley puller/installer set. Wt. 2 lbs., 5 oz.



7830A

### Power Steering Pump Pulley Kit

This kit has nearly everything you need to remove and install power steering pump pulleys in Chrysler, Ford, and GM vehicles with Saginaw, Thompson, and Ford C111 and C2 power steering pumps. Fits 1-1/8", 1-1/4", 1-5/16" and 1-3/8" pulley hub diameters, including 1988–newer GM cars equipped with Quad 4 engines; 1991–94 GM 3.1L V6; 1991–newer 3800 V6 engines; 1994–newer GM 3100 V6; 1999–newer GM 3400 V6, and 1992–newer Ford Crown Victoria and Mercury Grand Marquis with 4.6 V8 engine, 1997–newer Ford truck with 4.2 & 4.6 V6, 5.4 V8, and 6.8 V10 engines.

- Also includes No. 7931 spacer for work on Chrysler Cirrus, Dodge Stratus, and Plymouth Breeze.

**No. 7830A** – Power steering pump pulley kit. Wt., 1 lb., 10 oz.

# AUTOMOTIVE SPECIAL TOOLS

## Suspension & Steering Service and Ford Cam Tools

### Ford Diesel Vacuum Pump Pulley Remover Jaws

These jaws, together with No. 7185 pulley remover, make quick work of vacuum pump removal on newer Ford diesel engines.

- For use on 1984 to '87 6.9L, and 1988–2003 7.3L.

**No. 7922** – Ford diesel vacuum pump pulley remover jaws. Wt., 8 oz.

Similar to  
Ford No. 300-D054  
(D84T-9486-A)

7922



### Power Steering Pump Pulley Installer

This is an ideal companion to our No. 7185 pulley remover. It's a real timesaver for installing power steering pump pulleys and GM press-on water pump pulleys.

- Designed to ensure damage-free installation.
- Internal roller bearing allows for easy turning.
- Threads are 3/8"-16 to match pulley shafts.

**No. 7005** – Power steering pump pulley installer. Wt., 11 oz.

Similar to  
Ford No. 211-009  
(T65P-3A733-C)

7005



**The OTC Ford cam tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs.**

### Ford Cam Tool Kit

**No. 6486** – Ford cam tool kit for 2.0L Zetec engines in Contour, Mystique, and Focus. Contains tool Nos. 6474 and No. 6475. Wt., 1 lb.

6486



### Ford Cam Tool Kit

**No. 6487** – Ford cam tool kit for 1992 thru 2004 4.6L, 5.4L V8, and 6.8L V10 engines. Contains tool Nos. 6476, 6477, 6009, 6020, and molded storage case. Wt., 5 lbs.

**Note:** See page 106, kit 6489 for applications.

6487



### Ford Cam Tool Kit

**No. 6488** – Ford cam tool kit for 1997 thru 2004 4.0L Explorer/Mountaineer SOHC V6 engines. Kit contains tool Nos. 6478, 6479, 6480, 6481, 6482, 6484, 6485, and molded storage case. Wt., 7 lbs. 10 oz.

**Note:** See page 106, kit 6489 for applications.

6488



# AUTOMOTIVE SPECIAL TOOLS

## Ford Cam Tool Application Chart



### Ford Cam Tool Kit

**No. 6489** – Ford master cam tool kit containing all 22 cam tools covering 1992 thru 2004 for over 50 applications, in a molded storage case. Wt., 12 lbs. 5 oz.

### Ford cam tool application chart for No. 6489

Note: Some applications require more than one tool to accomplish the task.

Year	Make & Model	Engine	Tool Description	OTC Part No.	Ford Am. Part No.	Global Part No.
1995–1997	Aerostar	3.0L V6	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1996–1998	Aerostar	4.0L V6	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1994–2002	Contour	2.0L 4 cyl. DOHC Zetec	Cam Alignment Tool	6474	T94P-6256-CH	303-465
1997–2002	Contour	2.0L 4 cyl. DOHC Zetec	Crankshaft TDC Timing Pin	6475	T97P-6000-A	303-574
1991–1998	Crown Victoria	4.6L 2V V8	Cam Positioning Tool	6009	T91P-6256-A	303-380
1992–1998	Crown Victoria	4.6L 2V V8	Cam Positioning Tool	6020	T92P-6256-A	303-413
1997–2003	Econoline	4.2L V6	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1997–1998	Econoline	4.6L & 5.4L V8, 6.8L V10	Cam Positioning Tool	6009	T91P-6256-A	303-380
			Cam Positioning Tool	6020	T92P-6256-A	303-413
1997–2006	Econoline	4.6L & 5.4L	Cam Positioning Tool Set	6476	T96T-6256-AR	303-S568
1997–2006	Econoline	5.4L V8	Cam Holding Tool	6477	T96T-6256-B	303-557
1997–2006	Econoline	6.8L V10	Cam Positioning Tool Set	6476	T96T-6256-AR	303-S568
			Cam Holding Tool	6477	T96T-6256-B	303-557
1997–2006	Econoline	Windsor V8	Cam Holding Tool	6477	T96T-6256-B	303-557
1997–1998	Expedition	5.4L V8	Cam Positioning Tool	6009	T91P-6256-A	303-380
			Cam Positioning Tool	6020	T92P-6256-A	303-413
1997–2004	Expedition	5.4L V8	Cam Positioning Tool Set	6476	T96T-6256-AR	303-S568
			Cam Holding Tool	6477	T96T-6256-B	303-557
1996–1998	Explorer	4.0L V6	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1997–2006	Explorer	4.0L SOHC V6	Cam Gear Holding Tool	6478	T97T-6256-B	303-564
			Crankshaft Holding Tool	6479	T97T-6303-A	303-573
			Cam Holding Tool Adapter	6480	T97T-6256-D	303-576
			Cam Holding Tool	6481	T97T-6256-C	303-577
			Cam Gear Hldg Tool Adapter	6482	T97T-6256-A	303-578
			Timing Chain Tensioner Tool	6484	T97T-6K254-A	303-571
			Cam Gear Bolt Socket & Ext.	6485	T97T-6256-F, -G	303-565, -575
1999–2002	Explorer	4.0L Push Rod V6	Cam Sensor Sync Tool	6483		303-638
1996–1998	Explorer	5.0L V8	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1999–2002	Explorer	5.0L V8	Cam Sensor Sync Tool	6470		303-630
1997–2003	F-Series Truck	4.2L V6	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1997–1998	F-Series Truck	4.6L & 5.4L V8	Cam Positioning Tool	6009	T91P-6256-A	303-380
			Cam Positioning Tool	6020	T92P-6256-A	303-413
1997–2004	F-Series Truck	4.6L & 5.4L	Cam Positioning Tool Set	6476	T96T-6256-AR	303-S568
1997–2004	F-Series Truck	5.4L V8	Cam Holding Tool	6477	T96T-6256-B	303-557
1997–2004	F-Series Truck	Windsor V8	Cam Holding Tool	6477	T96T-6256-B	303-557
1994–1995	Mustang	3.8L V6	Cam Sensor Sync Tool	6467	T89P-12200-A	303-358
1996–1998	Mustang	3.8L V6	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1999–2004	Mustang	3.8L V6	Cam Sensor Sync Tool	6470		303-630



# AUTOMOTIVE SPECIAL TOOLS

## Ford Cam Tool Application Chart

### Ford cam tool application chart for No. 6489

Note: Some applications require more than one tool to accomplish the task.

Year	Make & Model	Engine	Tool Description	OTC Part No.	Ford Am. Part No.	Global Part No.
1996-2001	Mustang	4.6L 4V	Camshaft Positioning Tool	525216		303-445
1996-2004	Mustang	4.6L 4V	Camshaft Holding Tool	525217		303-446
1993-1997	Probe	2.0L 4 cyl.	Cam Pulley Holding Tool	6468	T92C-6256-AH	303-398
1989-1997	Ranger	2.3L, 4 cyl. dual plug	Crankshaft Sensor Positioner	6466	T89P-6316-A	303-354
1995-1997	Ranger	3.0L V6	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1998-2006	Ranger	3.0L V6	Cam Sensor Sync Tool	6473		303-589
1996-1998	Ranger	4.0L V6	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1993-1995	Taurus	3.0L V6	Cam Sensor Sync Tool	6471	T93P-12200-A	303-453
1996-1997	Taurus	3.0L V6 2-valve	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1998-2006	Taurus	3.0L V6	Cam Sensor Sync Tool	6473		303-589
1989-1995	Thunderbird	Supercharged 3.8L V6	Cam Sensor Sync Tool	6467	T89P-12200-A	303-358
1990-1995	Thunderbird	3.8L V6	Cam Sensor Sync Tool	6467	T89P-12200-A	303-358
1997	Thunderbird	3.8L V6	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1995-1997	Windstar	3.0L V6	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1998-2003	Windstar	3.0L V6	Cam Sensor Sync Tool	6473		303-589
1995	Windstar	3.8L V6	Cam Sensor Sync Tool	6467	T89P-12200-A	303-358
1996-1998	Windstar	3.8L V6	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1999-2003	Windstar	3.8L V6	Cam Sensor Sync Tool	6470		303-630
1998	Lincoln Navigator	5.4L V8	Cam Positioning Tool	6009	T91P-6256-A	303-380
			Cam Positioning Tool	6020	T92P-6256-A	303-413
1998-2004	Lincoln Navigator	5.4L V8	Cam Positioning Tool Set	6476	T96T-6256-AR	303-S568
			Cam Holding Tool	6477	T96T-6256-B	303-557
1993-1997	Lincoln Mark Series	4.6L 4V	Secondary Timing Chain Tensioner	525218		303-447
1993-1998	Lincoln Mark Series	4.6L 4V	Camshaft Positioning Tool	525216		303-445
			Camshaft Holding Tool	525217		303-446
1995-2002	Lincoln Continental	4.6L 4V	Camshaft Positioning Tool	525216		303-445
			Camshaft Holding Tool	525217		303-446
2003-2005	Lincoln Aviator	4.6L 4V	Camshaft Holding Tool	525217		303-446
1989-1995	Cougar	Supercharged 3.8L V6	Cam Sensor Sync Tool	6467	T89P-12200-A	303-358
1990-1995	Cougar	3.8L V6	Cam Sensor Sync Tool	6467	T89P-12200-A	303-358
1997	Cougar	3.8L V6	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1991-1998	Grand Marquis	4.6L 2V V8	Cam Positioning Tool	6009	T91P-6256-A	303-380
1992-1998	Grand Marquis	4.6L 2V V8	Cam Positioning Tool	6020	T92P-6256-A	303-413
1997-2006	Mountaineer	4.0L SOHC V6	Cam Gear Holding Tool	6478	T97T-6256-B	303-564
			Crankshaft Holding Tool	6479	T97T-6303-A	303-573
			Cam Holding Tool Adapter	6480	T97T-6256-D	303-576
			Cam Holding Tool	6481	T97T-6256-C	303-577
			Cam Gear Holding Tool Adapter	6482	T97T-6256-A	303-578
			Timing Chain Tensioner Tool	6484	T97T-6K254-A	303-571
			Cam Gear Bolt Socket & Ext.	6485	T97T-6256-F, -G	303-565, -575
1999-2004	Mountaineer	4.0L Push Rod V6	Cam Sensor Sync Tool	6483		303-638
1996-1998	Mountaineer	5.0L V8	Cam Sensor Sync Tool	6469	T96T-12200-A	303-562
1999-2001	Mountaineer	5.0L V8	Cam Sensor Sync Tool	6470		303-630
1994-2002	Mystique	2.0L 4 cyl. DOHC Zetec	Cam Alignment Tool	6474	T94P-6256-CH	303-465
1997-2002	Mystique	2.0L 4 cyl. DOHC Zetec	Crankshaft TDC Timing Pin	6475	T97P-6000-A	303-574
1993-1995	Sable	3.0L V6	Cam Sensor Sync Tool	6471	T93P-12200-A	303-453
1996-1997	Sable	3.0L V6 2-valve	Cam Sensor Sync Tool	6472	T95T-12200-A	303-529
1998-2004	Sable	3.0L V6	Cam Sensor Sync Tool	6473		303-589
2003-2004	Mercury Marauder	4.6L 4V	Camshaft Positioning Tool	525217		303-446
			Camshaft Holding Tool	525217		303-446

# AUTOMOTIVE SPECIAL TOOLS

## Ford Cam Tool Application Chart

The OTC Ford cam tools ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs.

### Ford 4.6L 4-Valve Cam Timing Kit

- Kit includes: Camshaft positioning tool, camshaft holding tool, crankshaft positioning tool, secondary chain tensioner tool.
- Saves time; all tools required for camshaft timing are in one kit.

**No. 6498** – Ford 4.6L 4-valve cam timing kit.  
Wt., 6 lbs., 11 oz.



6498

**Ford 4.6L V8 4 valve Cam Timing application chart for 6498** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
1993-1998	Lincoln	Mark VIII	4.6L VIN V	Camshaft Positioning Tool	525216	303-445
1995-2002	Lincoln	Contiental	4.6L VIN V	Camshaft Positioning Tool	525216	303-445
1996-2001	Ford	Mustang	4.6L VIN V	Camshaft Positioning Tool	525216	303-445
2003-2004	Mercury	Marauder	4.6L VIN V	Camshaft Positioning Tool	525216	303-445
1993-1998	Lincoln	Mark VIII	4.6L VIN V	Camshaft Holding Tool	525217	303-446
1995-2002	Lincoln	Contiental	4.6L VIN V	Camshaft Holding Tool	525217	303-446
1996-2002	Ford	Mustang	4.6L VIN V	Camshaft Holding Tool	525217	303-446
2003-2004	Ford	Mustang	4.6L VIN Y	Camshaft Holding Tool	525217	303-446
2005-2006	Ford	Mustang	4.6: VIN H	Camshaft Holding Tool	525217	303-446
2003-2004	Mercury	Marauder	4.6L VIN V	Camshaft Holding Tool	525217	303-446
2003-2005	Lincoln	Aviator	4.6L VIN H	Camshaft Holding Tool	525217	303-446
1993-1997	Lincoln	Mark VIII	4.6L VIN V	Secondary Timing Chain Tensioner tool	525218	303-447
1995-1997	Lincoln	Contiental	4.6L VIN V	Secondary Timing Chain Tensioner tool	525218	303-447
1996-1997	Ford	Mustang	4.6L VIN V	Secondary Timing Chain Tensioner tool	525218	303-447
1993-1998	Lincoln	Mark VIII	4.6L VIN V	Crankshaft Positioning Tool	525219	303-448
1995-2002	Lincoln	Contiental	4.6L VIN V	Crankshaft Positioning Tool	525219	303-448
1996-2001	Ford	Mustang	4.6L VIN V	Crankshaft Positioning Tool	525219	303-448
2003-2004	Mercury	Marauder	4.6L VIN V	Crankshaft Positioning Tool	525219	303-448
2003-2004	Ford	Mustang	4.6L VIN Y	Crankshaft Positioning Tool	525219	303-448
2005-2006	Ford	Mustang	4.6: VIN H	Crankshaft Positioning Tool	525219	303-448
2003-2005	Lincoln	Aviator	4.6L VIN H	Crankshaft Positioning Tool	525219	303-448

# AUTOMOTIVE SPECIAL TOOLS

## Chrysler/Jeep Cam Tool Set

The Chrysler/Jeep cam timing tools are provided to ensure correct cam timing when servicing timing belts, chains, head gaskets, or performing other valve train repairs.

These 15 tools are based on OE designs and are offered to service the following applications:

Cam positioning is an IMPORTANT procedure. If cam timing is not correct, the engine may still run, but emissions and mileage will be affected. The engine computer may also initiate the "Check Engine" light.

**No. 6689** – Chrysler/Jeep cam tool set. Wt., 25 lbs.



6689

**Chrysler / Jeep Cam Tool application chart for 6689** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
1990-2006	Chrysler	Town & Country Van	3.3 L V6	Crankshaft Damper Puller	6667 or 513990	8454
1990-2006	Dodge	Caravan & Grand Caravan	3.3 L V6	Crankshaft Damper Puller	6667 or 513990	8454
1990-2000	Plymouth	Voyager & Grand Voyager	3.3 L V6	Crankshaft Damper Puller	6667 or 513990	8454
1993-1996	Chrysler	Conorde	3.3 L V6	Crankshaft Damper Puller	6667 or 513990	8454
1993-1997	Dodge	Intrepid	3.3 L V6	Crankshaft Damper Puller	6667 or 513990	8454
1993-1997	Chrysler	Conorde	3.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
1993-1997	Dodge	Intrepid	3.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
1994-2006	Chrysler	Town & Country Van	3.8L V6	Crankshaft Damper Puller	6667 or 513990	8454
1994-2006	Dodge	Caravan & Grand Caravan	3.8L V6	Crankshaft Damper Puller	6667 or 513990	8454
1994-2000	Plymouth	Voyager & Grand Voyager	3.8L V6	Crankshaft Damper Puller	6667 or 513990	8454
1994-2006	Dodge	Ram Truck	8.0L V10	Crankshaft Damper Puller	6667 or 513990	8454
1995-2006	Dodge	Neon	2.0L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-1999	Dodge	Avanger	2.0L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-2000	Dodge	Avanger	2.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
2003-2006	Dodge	Neon	2.4L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-1999	Chrysler	Sebring	2.0L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-2000	Chrysler	Sebring	2.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
1995-2000	Chrysler	Cirrus	2.4L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-2000	Chrysler	Cirrus	2.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
2001-2006	Chrysler	Sebring	2.4L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-2001	Plymouth	Neon	2.0L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-2000	Plymouth	Breeze	2.0L I4	Crankshaft Damper Puller	6667 or 513990	8454
1995-2000	Plymouth	Breeze	2.4L I4	Crankshaft Damper Puller	6667 or 513990	8454
2001-2006	Chrysler	PT Cruiser	2.4L I4	Crankshaft Damper Puller	6667 or 513990	8454
1998-2004	Chrysler	Conorde	2.7L V6	Crankshaft Damper Puller	6667 or 513990	8454
1998-2004	Chrysler	Conorde	3.2L V6	Crankshaft Damper Puller	6667 or 513990	8454
1999-2006	Chrysler	300	3.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
2005-2006	Chrysler	300	2.7L V6	Crankshaft Damper Puller	6667 or 513990	8454
2005-2006	Chrysler	PT Cruiser	2.7L V6	Crankshaft Damper Puller	6667 or 513990	8454
2004-2006	Chrysler	Pacifica	3.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
2006	Dodge	Charger	3.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
2006	Dodge	Charger	2.7L V6	Crankshaft Damper Puller	6667 or 513990	8454
1998-2006	Dodge	Intrepid	2.7L V6	Crankshaft Damper Puller	6667 or 513990	8454
1998-2006	Dodge	Intrepid	3.2L V6	Crankshaft Damper Puller	6667 or 513990	8454
2000-2006	Dodge	Dakota	4.7L V8	Crankshaft Damper Puller	6667 or 513990	8454
2000-2006	Dodge	Durango	4.7L V8	Crankshaft Damper Puller	6667 or 513990	8454
1999-2006	Jeep	Grand Cherokee	4.7L V8	Crankshaft Damper Puller	6667 or 513990	8454

# AUTOMOTIVE SPECIAL TOOLS

## Chrysler/Jeep Cam Tool Application Chart

Chrysler / Jeep Cam Tool application chart for 6689 Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
2006	Jeep	Commander	4.7L V8	Crankshaft Damper Puller	6667 or 513990	8454
1994-1997	Chrysler	New Yorker & LHS	3.5L V6	Crankshaft Damper Puller	6667 or 513990	8454
1993-1997	Chrysler	Conorde	3.5L V6	Camshaft alignment tools	7999 or 522888	6642
1994-1997	Chrysler	New Yorker & LHS	3.5L V6	Camshaft alignment tools	7999 or 522888	6642
1993-1997	Dodge	Intrepid	3.5L V6	Timing Chain Tensioner Reset Tool	522890	8186
2002-2006	Chrysler	Sebring	2.7L V6 vin R	Timing Chain Tensioner Reset Tool	522890	8186
2005-2006	Chrysler	300	2.7L V6 vin R	Timing Chain Tensioner Reset Tool	522890	8186
1998-2004	Dodge	Intrepid	2.7L V6 vin R	Timing Chain Tensioner Reset Tool	522890	8186
2002-2006	Dodge	Stratus	2.7L V6 vin R	Timing Chain Tensioner Reset Tool	522890	8186
2005-2006	Dodge	Magnum	2.7L V6 vin R	Timing Chain Tensioner Reset Tool	522890	8186
2006	Dodge	Charger	2.7L V6 vin R	Timing Chain Tensioner Reset Tool	522890	8186
1999-2006	Jeep	Grand Cherokee	4.7L V8	Timing Chain Wedge	522892	8350
2006	Jeep	Commander	4.7L V8	Timing Chain Wedge	522892	8350
2000-2006	Dodge	Durango	4.7L V8	Timing Chain Wedge	522892	8350
2000-2006	Dodge	Dakota	4.7L V8	Timing Chain Wedge	522892	8350
2002-2006	Dodge	Ram Truck	4.7L V8	Timing Chain Wedge	522892	8350
2002-2006	Jeep	Liberty	3.7L V6	Timing Chain Wedge	522893	8379
2004-2006	Jeep	Grand Cherokee	3.7L V6	Timing Chain Wedge	522893	8379
2002-2006	Dodge	Ram Truck	3.7L V6	Timing Chain Wedge	522893	8379
2004-2006	Dodge	Dakota	3.7L V6	Timing Chain Wedge	522893	8379
2004-2006	Dodge	Durango	3.7L V6	Timing Chain Wedge	522893	8379
2002-2006	Jeep	Liberty	3.7L V6	Camshaft Wrench	522894	8428
2004-2006	Jeep	Grand Cherokee	3.7L V6	Camshaft Wrench	522894	8428
2002-2006	Dodge	Ram Truck	3.7L V6	Camshaft Wrench	522894	8428
2004-2006	Dodge	Dakota	3.7L V6	Camshaft Wrench	522894	8428
2004-2006	Dodge	Durango	3.7L V6	Camshaft Wrench	522894	8428
1999-2006	Jeep	Grand Cherokee	4.7L V8	Idler Shaft Remover	522896	8517
2006	Jeep	Commander	4.7L V8	Idler Shaft Remover	522896	8517
2000-2006	Dodge	Durango	4.7L V8	Idler Shaft Remover	522896	8517
2000-2006	Dodge	Dakota	4.7L V8	Idler Shaft Remover	522896	8517
2002-2006	Dodge	Ram Truck	4.7L V8	Idler Shaft Remover	522896	8517
1999-2006	Jeep	Grand Cherokee	4.7L V8	Tensioner lock pin	522897	8514
2006	Jeep	Commander	4.7L V8	Tensioner lock pin	522897	8514
2000-2006	Dodge	Durango	4.7L V8	Tensioner lock pin	522897	8514
2000-2006	Dodge	Dakota	4.7L V8	Tensioner lock pin	522897	8514
2002-2006	Dodge	Ram Truck	4.7L V8	Tensioner lock pin	522897	8514
2001-2005	Chrysler	Sebring	2.4L I4 vin G	Camshaft Holding Pins	522898	8599
2001-2005	Dodge	Stratus	2.4L I4 vin G	Camshaft Holding Pins	522898	8599
2001-2005	Chrysler	Sebring	3.0L V6 vin H	Camshaft Holding Pins	522898	8599
2001-2005	Dodge	Stratus	3.0L V6 vin H	Camshaft Holding Pins	522898	8599
1981-1988	Dodge	Omni	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1981-1989	Dodge	Aries	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1982-1983	Dodge	400	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1983-1988	Dodge	600	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1984-1986	Dodge	Charger	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1984-1989	Dodge	Daytona	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1984-1987	Dodge	Caravan & Grand Caravan	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1983-1990	Dodge	Shelby	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1987-1994	Dodge	Shadow	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1985-1989	Dodge	Lancer	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1986-1993	Dodge	Daytona	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703

# AUTOMOTIVE SPECIAL TOOLS

## Chrysler/Jeep Cam Tool Application Chart

**Chrysler / Jeep Cam Tool application chart for 6689** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
1986-1989	Dodge	Aries	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1986-1988	Dodge	600	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1987-1989	Dodge	Lancer	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1987-1995	Dodge	Caravan & Grand Caravan	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1988-1991	Dodge	Shelby	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1988-1993	Dodge	Dynasty	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1989-1994	Dodge	Shadow	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1989-1995	Dodge	Spirit	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1982-1990	Chrysler	Lebaron	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1983-1988	Chrysler	New Yorker	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1984-1986	Chrysler	Laser	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1986-1993	Chrysler	Lebaron	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1986-1987	Chrysler	New Yorker	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1981-1989	Plymouth	Horizon	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1981-1989	Plymouth	Reliant	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1984-1988	Plymouth	Voyager	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1982-1986	Plymouth	Turismo	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1989-1994	Plymouth	Sundance	2.2 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1986-1988	Plymouth	Caravelle	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1986-1989	Plymouth	Reliant	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1987-1995	Plymouth	Voyager	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1987-1994	Plymouth	Sundance	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1990-1995	Plymouth	Acclaim	2.5 L I4	Timing Belt Tensioner	7695 or 522899	C-4703
1989-1995	Dodge	Colt	2.4L I4	Timing Belt Tensioner	522900A	MD-998738
1989-1995	Eagle	Summit	2.4L I4	Timing Belt Tensioner	522900A	MD-998738
1991-1997	Dodge	Stealth	3.0L V6	Timing Belt Wrench	7997 or 522901	MD-998767
1992-1994	Eagle	Summit	2.4L I4	Timing Belt Wrench	7997 or 522901	MD-998767
1992-1994	Dodge	Colt	2.4L I4	Timing Belt Wrench	7997 or 522901	MD-998767
1984-1991	Dodge	Colt	2.0L I4	Timing Belt Wrench	7997 or 522901	MD-998767
1999-2006	Jeep	Grand Cherokee	4.7L V8	Secondary Timing Chain Holder	522902	8515
2006	Jeep	Commander	4.7L V8	Secondary Timing Chain Holder	522902	8515
2000-2006	Dodge	Durango	4.7L V8	Secondary Timing Chain Holder	522902	8515
2000-2006	Dodge	Dakota	4.7L V8	Secondary Timing Chain Holder	522902	8515
2002-2006	Dodge	Ram Truck	4.7L V8	Secondary Timing Chain Holder	522902	8515
1999-2006	Jeep	Grand Cherokee	4.7L V8	Secondary Timing Chain Holder	522902	8515
2006	Jeep	Commander	4.7L V8	Secondary Timing Chain Holder	522902	8515
2000-2006	Dodge	Durango	4.7L V8	Secondary Timing Chain Holder	522902	8515
2000-2006	Dodge	Dakota	4.7L V8	Secondary Timing Chain Holder	522902	8515
2002-2006	Dodge	Ram Truck	4.7L V8	Secondary Timing Chain Holder	522902	8515

# AUTOMOTIVE SPECIAL TOOLS

## GM Cam Tool Application Chart



### GM In-line 4-Cylinder Cam Tool Set

- Comprehensive tool kit designed to save time when servicing GM 4-cylinder engines.
- Tools are actually easier to use than the original OE essential tools.

**No. 6685** – GM In-line 4-Cylinder Cam Tool Set.  
Wt., 17 lbs., 8 oz.

**GM In-line 4-Cylinder Cam Tool Application Chart for 6685** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
1988-1995	Buick	Skylark	2.3L	Camshaft Sprocket Wrench	527046	J-36013
1990-1991	Oldsmobile	Cutlass Supreme	2.3L	Camshaft Sprocket Wrench	527046	J-36013
1987-1991	Oldsmobile	Calais	2.3L	Camshaft Sprocket Wrench	527046	J-36013
1992-1995	Oldsmobile	Achieva	2.3L	Camshaft Sprocket Wrench	527046	J-36013
1988-1995	Pontiac	Grand Am	2.3L	Camshaft Sprocket Wrench	527046	J-36013
1995	Pontiac	Sunfire	2.3L	Camshaft Sprocket Wrench	527046	J-36013
1996-1998	Buick	Skylark	2.4L	Camshaft Sprocket Wrench	527049	J-39579
1996-2002	Chevrolet	Cavalier	2.4L	Camshaft Sprocket Wrench	527049	J-39579
1996-1998	Oldsmobile	Achieva	2.4L	Camshaft Sprocket Wrench	527049	J-39579
1999-2001	Oldsmobile	Alero	2.4L	Camshaft Sprocket Wrench	527049	J-39579
1996-2001	Pontiac	Grand Am	2.4L	Camshaft Sprocket Wrench	527049	J-39579
1996-2002	Pontiac	Sunfire	2.4L	Camshaft Sprocket Wrench	527049	J-39579
1988-1998	Buick	Skylark	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1996-2002	Chevrolet	Cavalier	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1987-1991	Oldsmobile	Calais	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1990-1991	Oldsmobile	Cutlass Supreme	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1992-1998	Oldsmobile	Achieva	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1999-2001	Oldsmobile	Alero	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1998-2001	Pontiac	Grand Am	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1995-2002	Pontiac	Sunfire	2.3L/2.4L	Camshaft Timing Alignment Pins	527045	J-36008A
1996-1998	Buick	Skylark	2.4L	Timing Chain Tensioner & Shoe Retainer	532174	NA
1996-2002	Chevrolet	Cavalier	2.4L	Timing Chain Tensioner & Shoe Retainer	532174	NA
1996-1998	Oldsmobile	Achieva	2.4L	Timing Chain Tensioner & Shoe Retainer	532174	NA
1999-2001	Oldsmobile	Alero	2.4L	Timing Chain Tensioner & Shoe Retainer	532174	NA
1996-2001	Pontiac	Grand Am	2.4L	Timing Chain Tensioner & Shoe Retainer	532174	NA
1996-2002	Pontiac	Sunfire	2.4L	Timing Chain Tensioner & Shoe Retainer	532174	NA
1988-1995	Buick	Skylark	2.3L	Timing Chain Tensioner Retainer	532195	J-36589
1987-1991	Oldsmobile	Calais	2.3L	Timing Chain Tensioner Retainer	532195	J-36589
1990-1991	Oldsmobile	Cutlass Supreme	2.3L	Timing Chain Tensioner Retainer	532195	J-36589
1992-1995	Oldsmobile	Achieva	2.3L	Timing Chain Tensioner Retainer	532195	J-36589
1988-1995	Pontiac	Grand Am	2.3L	Timing Chain Tensioner Retainer	532195	J-36589
1995	Pontiac	Sunfire	2.3L	Timing Chain Tensioner Retainer	532195	J-36589
2002-2005	Chevrolet	Cavalier	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2003-2006	Chevrolet	Malibu	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2004-2005	Chevrolet	Malibu Classic	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2002-2004	Oldsmobile	Alero	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2002-2005	Pontiac	Sunfire	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2002-2005	Pontiac	Grand Am	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027

# AUTOMOTIVE SPECIAL TOOLS

## GM Cam Tool Application Chart

**GM In-line 4-Cylinder Cam Tool Application Chart for 6685** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
2000-2005	Saturn	L Series	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2002-2006	Saturn	Vue	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2003-2006	Saturn	Ion	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2005-2006	Chevrolet	Cobalt	2.2L vin F	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2005-2006	Chevrolet	Cobalt	2.4L vin B	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2006	Chevrolet	HHR	2.4L vin B	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2006	Pontiac	G6	2.4L vin B	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2006	Pontiac	Pursuit	2.4L vin B	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2006	Pontiac	Solstice	2.4L vin B	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2005-2006	Chevrolet	Cobalt	2.0L	Timing Chain Tensioner Loading Tools	527061-1 & 527061-2	J-45027
2002-2005	Chevrolet	Cavalier	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2003-2006	Chevrolet	Malibu	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2004-2005	Chevrolet	Malibu Classic	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2002-2004	Oldsmobile	Alero	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2002-2005	Pontiac	Sunfire	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2002-2005	Pontiac	Grand Am	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2000-2005	Saturn	L Series	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2002-2006	Saturn	Vue	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2003-2006	Saturn	Ion	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2005-2006	Chevrolet	Cobalt	2.2L vin F	Camshaft Sprocket Holding Tool	527056	J-43655
2005-2006	Chevrolet	Cobalt	2.0L	Camshaft Sprocket Holding Tool	527056	J-43655
2005-2006	Chevrolet	Cobalt	2.4L vin B	Camshaft Sprocket Holding Tool	527056	J-43655
2006	Chevrolet	HHR	2.4L vin B	Camshaft Sprocket Holding Tool	527056	J-43655
2006	Pontiac	G6	2.4L vin B	Camshaft Sprocket Holding Tool	527056	J-43655
2006	Pontiac	Pursuit	2.4L vin B	Camshaft Sprocket Holding Tool	527056	J-43655
2006	Pontiac	Solstice	2.4L vin B	Camshaft Sprocket Holding Tool	527056	J-43655
2002-2005	Chevrolet	Cavalier	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2003-2006	Chevrolet	Malibu	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2004-2005	Chevrolet	Malibu Classic	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2002-2004	Oldsmobile	Alero	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2002-2005	Pontiac	Sunfire	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2002-2005	Pontiac	Grand Am	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2000-2005	Saturn	L Series	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2002-2006	Saturn	Vue	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2003-2006	Saturn	Ion	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2005-2006	Chevrolet	Cobalt	2.2L vin F	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2005-2006	Chevrolet	Cobalt	2.0L	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2005-2006	Chevrolet	Cobalt	2.4L vin B	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2

# AUTOMOTIVE SPECIAL TOOLS

## GM Cam Tool Application Chart

**GM In-line 4-Cylinder Cam Tool Application Chart for 6685** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
2006	Chevrolet	HHR	2.4L vin B	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2006	Pontiac	G6	2.4L vin B	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2006	Pontiac	Pursuit	2.4L vin B	Timing Chain Holders	536186 & 536187	J-44217-1 & J44217-2
2006	Pontiac	Solstice	2.4L vin B	Timing Chain Holders	536186 & 536187	J-44217-1 & J 44217-2
2004-2006	Chevrolet	Colorado	2.8L	Camshaft Sprocket Holding Tool	536181	J-44222
2004-2006	GMC	Canyon	2.8L	Camshaft Sprocket Holding Tool	536181	J-44222
2004-2006	Chevrolet	Colorado	2.8L	Camshaft Holding Tool	536172	J-44221
2004-2006	GMC	Canyon	2.8L	Camshaft Holding Tool	536172	J-44221
2002-2005	Chevrolet	Cavalier	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2003-2006	Chevrolet	Malibu	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2004-2005	Chevrolet	Malibu Classic	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2002-2004	Oldsmobile	Alero	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2002-2005	Pontiac	Sunfire	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2002-2005	Pontiac	Grand Am	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2000-2005	Saturn	L Series	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2002-2006	Saturn	Vue	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2003-2006	Saturn	Ion	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2005-2006	Chevrolet	Cobalt	2.2L vin F	Crankshaft Pulley Holder	536178	J-38122
2005-2006	Chevrolet	Cobalt	2.0L	Crankshaft Pulley Holder	536178	J-38122
2005-2006	Chevrolet	Cobalt	2.4L vin B	Crankshaft Pulley Holder	536178	J-38122
2006	Chevrolet	HHR	2.4L vin B	Crankshaft Pulley Holder	536178	J-38122
2006	Pontiac	G6	2.4L vin B	Crankshaft Pulley Holder	536178	J-38122
2006	Pontiac	Pursuit	2.4L vin B	Crankshaft Pulley Holder	536178	J-38122
2006	Pontiac	Solstice	2.4L vin B	Crankshaft Pulley Holder	536178	J-38122
1996-1998	Buick	Skylark	2.4L	Crankshaft Pulley Holder	536178	J-38122
1996-2002	Chevrolet	Cavalier	2.4L	Crankshaft Pulley Holder	536178	J-38122
1996-1998	Oldsmobile	Achieva	2.4L	Crankshaft Pulley Holder	536178	J-38122
1999-2001	Oldsmobile	Alero	2.4L	Crankshaft Pulley Holder	536178	J-38122
1996-2001	Pontiac	Grand Am	2.4L	Crankshaft Pulley Holder	536178	J-38122
1996-2002	Pontiac	Sunfire	2.4L	Crankshaft Pulley Holder	536178	J-38122
2004-2006	Chevrolet	Aveo	1.6L	Timing Belt Adjuster	536173	J-42492A
2000-2002	Saturn	SC-2,SL-2, SW-2	1.9L vin 7	Camshaft Holding Tool	536174	J-43299
1999-2002	Saturn	SC-2,SL-2, SW-2	1.9L vin 7	Camshaft Timing Alignment Pins	536254	NA
1999-2002	Saturn	SC-2,SL-2, SW-2	1.9L vin 7	Timing Chain Tensioner Retainer	536255	NA
2004-2006	Chevrolet	Colorado	2.8L	Timing Chain Holder	536265	J-44217-46
2004-2006	GMC	Canyon	2.8L	Timing Chain Holder	536265	J-44217-46



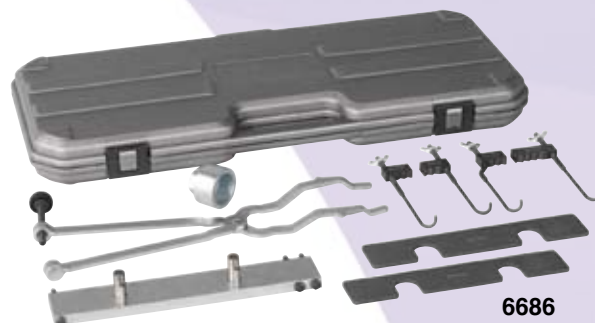
# AUTOMOTIVE SPECIAL TOOLS

## GM Cam Tool Application Chart

### GM NorthStar V8 Cam Tool Set

- Kit is indispensable for quickly and correctly servicing GM NorthStar 4.0L and 4.6L V8 engines.
- Over one million NorthStar V8s have been sold since 1993; cylinder heads and valve trains tend to wear out somewhere between 80,000 to 120,000 miles.

**No. 6686** – GM NorthStar V8 cam tool kit.  
Wt., 5 lbs., 1 oz.



**GM NorthStar V8 Cam Tool Application Chart for 6686** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
1993-1999	Cadillac	Eldorado Seville	4.6L	Cam Chain Tension Tool	527048	J-38822
1994- 1999	Cadillac	Deville Concours	4.6L	Cam Chain Tension Tool	527048	J-38822
2000-2002	Cadillac	Eldorado	4.6L	Crankshaft Rotating Tool	527050	J-39946
2000-2005	Cadillac	Seville Deville	4.6L	Crankshaft Rotating Tool	527050	J-39946
2004-2006	Cadillac	XLR, SRX	4.6L	Crankshaft Rotating Tool	527050	J-39946
2005-2006	Cadillac	STS	4.6L	Crankshaft Rotating Tool	527050	J-39946
2006	Cadillac	DTS	4.6L	Crankshaft Rotating Tool	527050	J-39946
2001-2003	Oldsmobile	Aurora	4.0L	Crankshaft Rotating Tool	527050	J-39946
2000-2002	Cadillac	Eldorado	4.6L	Camshaft Holding Tool	527057	J-44212
2000-2005	Cadillac	Seville Deville	4.6L	Camshaft Holding Tool	527050	J-44212
2004-2006	Cadillac	XLR, SRX	4.6L	Camshaft Holding Tool	527057	J-44212
2005-2006	Cadillac	STS	4.6L	Camshaft Holding Tool	527057	J-44212
2006	Cadillac	DTS	4.6L	Camshaft Holding Tool	527057	J-44212
2001-2003	Oldsmobile	Aurora	4.0L	Camshaft Holding Tool	527057	J-44212
2000-2002	Cadillac	Eldorado	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2000-2005	Cadillac	Seville Deville	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2004-2006	Cadillac	XLR, SRX	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2005-2006	Cadillac	STS	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2006	Cadillac	DTS	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2004-2006	Pontiac	Bonneville	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2006	Buick	Lucerne	4.6L	Secondary Drive Sprocket Fixture	527058	J-44213
2001-2003	Oldsmobile	Aurora	4.0L	Secondary Drive Sprocket Fixture	527058	J-44213
2004-2006	Cadillac	SRX, STS, XLR	4.6L VIN A	Timing Chain Retention Tools	529636	
2004-2006	Cadillac	SRX, STS, XLR	4.6L VIN A	Timing Chain Retention Tools	529637	
2004-2006	Cadillac	SRX, STS, XLR	4.6L VIN A	Timing Chain Retention Tools	529638	
2004-2006	Pontiac	Bonneville GPX	4.6L VIN A	Timing Chain Retention Tools	529636	
2004-2006	Pontiac	Bonneville GPX	4.6L VIN A	Timing Chain Retention Tools	529637	
2004-2006	Pontiac	Bonneville GPX	4.6L VIN A	Timing Chain Retention Tools	529638	

# AUTOMOTIVE SPECIAL TOOLS

## GM Cam Tool Application Chart



### GM 6 Cylinder Cam Tool Set

- Required tools to adjust and hold cam shaft timing on GM 3.0 and 3.2 V-6 engines.
- Kit is designed to save shop time when servicing GM 3.0 and 3.2 V-6 engines.

**No. 6687** – GM 6 cylinder cam tool set. Wt., 4 lbs., 13 oz.

**GM 6-Cylinder Cam Tool Application Chart for 6687** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
2002-2003	Cadillac	CTS	3.2L vin N	Camshaft Locking Tool	536594	J-42069-1
1997-2001	Cadillac	Catera	3.0L vin R	Camshaft Locking Tool	536594	J-42069-1
2002-2003	Cadillac	CTS	3.2L vin N	Camshaft Locking Tool	536595	J-42069-2
1997-2001	Cadillac	Catera	3.0L vin R	Camshaft Locking Tool	536595	J-42069-2
2002-2003	Cadillac	CTS	3.2L vin N	Crankshaft Holding Tool	536596	J-42069-10
1997-2001	Cadillac	Catera	3.0L vin R	Crankshaft Holding Tool	536596	J-42069-10
2002-2003	Cadillac	CTS	3.2L vin N	Camshaft Alignment Gauge	536608	J-42069-20
1997-2001	Cadillac	Catera	3.0L vin R	Camshaft Alignment Gauge	536608	J-42069-20
2002-2003	Cadillac	CTS	3.2L vin N	Timing Belt Installation Tool	536611	J-42069-30
1997-2001	Cadillac	Catera	3.0L vin R	Timing Belt Installation Tool	536611	J-42069-30
2002-2003	Cadillac	CTS	3.2L vin N	Timing Belt Tensioner Wrench	536612	J-42069-40
1997-2001	Cadillac	Catera	3.0L vin R	Timing Belt Tensioner Wrench	536612	J-42069-40
2002-2003	Cadillac	CTS	3.2L vin N	Crankshaft socket	536613	MKM-602-21
1997-2001	Cadillac	Catera	3.0L vin R	Crankshaft socket	536613	MKM-602-21



### GM In-line 5, 6, or V6 Cam Tool Set

- Comprehensive tool kit designed to save time when servicing GM 5-, 6-cylinder engines.
- Tools are actually easier to use than the original OE essential tools.

**No. 6688** – GM In-line 5, 6, or V6 cam tool set. Wt., 17 lbs., 4 oz.

**GM In-line 5, 6, or V6 Cam Tool Application Chart for 6688** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
2005-2006	Buick	Lacrosse	3.6L vin 7	Timing Chain Retention Tools	536589 & 536590	EN-46108
2004-2006	Buick	Rendezvous	3.6L vin 7	Timing Chain Retention Tools	536589 & 536590	EN-46108
2004-2006	Cadillac	CTS	3.6L vin 7	Timing Chain Retention Tools	536589 & 536590	EN-46108
2005-2006	Cadillac	STS	3.6L vin 7	Timing Chain Retention Tools	536589 & 536590	EN-46108
2004-2006	Cadillac	SRX	3.6L vin 7	Timing Chain Retention Tools	536589 & 536590	EN-46108
2004-2006	Cadillac	CTS	2.8L vin T	Timing Chain Retention Tools	536589 & 536590	EN-46108
2005-2006	Buick	Lacrosse	3.6L vin 7	Crankshaft Turning Socket	536588	EN-46111
2004-2006	Buick	Rendezvous	3.6L vin 7	Crankshaft Turning Socket	536588	EN-46111
2004-2006	Cadillac	CTS	3.6L vin 7	Crankshaft Turning Socket	536588	EN-46111
2005-2006	Cadillac	STS	3.6L vin 7	Crankshaft Turning Socket	536588	EN-46111

# AUTOMOTIVE SPECIAL TOOLS

## GM Cam Tool Application Chart

**GM In-line 5, 6, or V6 Cam Tool Application Chart for 6688** Note: Some applications require more than one tool to accomplish the task.

Year	Make	Model	Engine	Tool Description	OTC PN	OE PN
2004-2006	Cadillac	SRX	3.6L vin 7	Crankshaft Turning Socket	536588	EN-46111
2004-2006	Cadillac	CTS	2.8L vin T	Crankshaft Turning Socket	536588	EN-46111
2005-2006	Buick	Lacrosse	3.6L vin 7	Timing Chain Tensioner Pins	536587	EN-46112
2004-2006	Buick	Rendezvous	3.6L vin 7	Timing Chain Tensioner Pins	536587	EN-46112
2004-2006	Cadillac	CTS	3.6L vin 7	Timing Chain Tensioner Pins	536587	EN-46112
2005-2006	Cadillac	STS	3.6L vin 7	Timing Chain Tensioner Pins	536587	EN-46112
2004-2006	Cadillac	SRX	3.6L vin 7	Timing Chain Tensioner Pins	536587	EN-46112
2004-2006	Cadillac	CTS	2.8L vin T	Timing Chain Tensioner Pins	536587	EN-46112
2005-2006	Buick	Lacrosse	3.6L vin 7	Timing Chain Tensioner Tool	536587	J-45027
2004-2006	Buick	Rendezvous	3.6L vin 7	Timing Chain Tensioner Tool	536587	J-45027
2004-2006	Cadillac	CTS	3.6L vin 7	Timing Chain Tensioner Tool	536587	J-45027
2005-2006	Cadillac	STS	3.6L vin 7	Timing Chain Tensioner Tool	536587	J-45027
2004-2006	Cadillac	SRX	3.6L vin 7	Timing Chain Tensioner Tool	536587	J-45027
2004-2006	Cadillac	CTS	2.8L vin T	Timing Chain Tensioner Tool	536587	J-45027
2005-2006	Buick	Lacrosse	3.6L vin 7	Camshaft Locking Tool	536584 & 586585	EN-46105
2004-2006	Buick	Rendezvous	3.6L vin 7	Camshaft Locking Tool	536584 & 586585	EN-46105
2004-2006	Cadillac	CTS	3.6L vin 7	Camshaft Locking Tool	536584 & 586585	EN-46105
2005-2006	Cadillac	STS	3.6L vin 7	Camshaft Locking Tool	536584 & 586585	EN-46105
2004-2006	Cadillac	SRX	3.6L vin 7	Camshaft Locking Tool	536584 & 586585	EN-46105
2004-2006	Cadillac	CTS	2.8L vin T	Camshaft Locking Tool	536584 & 586585	EN-46105
2002-2004	Oldsmobile	Bravada	4.2L vin S	Camshaft Holding Tool	536172	J-44221
2004-2006	Buick	Rainier	4.2L vin S	Camshaft Holding Tool	536172	J-44221
2002-2006	Chevrolet	Trailblazer	4.2L vin S	Camshaft Holding Tool	536172	J-44221
2002-2006	GMC	Envoy	4.2L vin S	Camshaft Holding Tool	536172	J-44221
2004-2006	Chevrolet	Colorado	3.5L vin 5 5 cylinder	Camshaft Holding Tool	536172	J-44221
2004-2006	GMC	Canyon	3.5L vin 5 5 cylinder	Camshaft Holding Tool	536172	J-44221
2004-2006	Cadillac	CTS	2.8L vin T	Camshaft Sprocket Holding Tool	536181	J-44222
2002-2004	Oldsmobile	Bravada	4.2L vin S	Camshaft Sprocket Holding Tool	536181	J-44222
2004-2006	Buick	Rainier	4.2L vin S	Camshaft Sprocket Holding Tool	536181	J-44222
2002-2006	Chevrolet	Trailblazer	4.2L vin S	Camshaft Sprocket Holding Tool	536181	J-44222
2002-2006	GMC	Envoy	4.2L vin S	Camshaft Sprocket Holding Tool	536181	J-44222
2004-2006	Chevrolet	Colorado	3.5L vin 5 5 cylinder	Camshaft Sprocket Holding Tool	536181	J-44222
2004-2006	GMC	Canyon	3.5L vin 5 5 cylinder	Camshaft Sprocket Holding Tool	536181	J-44222
2004-2006	Cadillac	CTS	2.8L vin T	Timing Chain Retention Tools	536189 & 536187	J-44217
2002-2004	Oldsmobile	Bravada	4.2L vin S	Timing Chain Retention Tools	536189 & 536187	J-44217
2004-2006	Buick	Rainier	4.2L vin S	Timing Chain Retention Tools	536189 & 536187	J-44217
2002-2006	Chevrolet	Trailblazer	4.2L vin S	Timing Chain Retention Tools	536189 & 536187	J-44217
2002-2006	GMC	Envoy	4.2L vin S	Timing Chain Retention Tools	536189 & 536187	J-44217
2004-2006	Chevrolet	Colorado	3.5L vin 5 5 cylinder	Timing Chain Retention Tools	536189 & 536187	J-44217
2004-2006	GMC	Canyon	3.5L vin 5 5 cylinder	Timing Chain Retention Tools	536189 & 536187	J-44217
2001-2004	Chevrolet	Tracker	2.5L	Timing Chain Tensioner Pin	536586	EN-46330
2001-2002	Oldsmobile	Aurora	3.5L vin H	Timing Chain Tensioner Pin	536586	EN-46330
1999-2002	Oldsmobile	Intrigue	3.5L vin H	Timing Chain Tensioner Pin	536586	EN-46330
2001-2002	Oldsmobile	Aurora	3.5L vin H	Camshaft Holding Tool	527051	J-42038
1999-2002	Oldsmobile	Intrigue	3.5L vin H	Camshaft Holding Tool	527051	J-42038
2001-2002	Oldsmobile	Aurora	3.5L vin H	Cam Gear Holding Fixture	527052	J-42042
1999-2002	Oldsmobile	Intrigue	3.5L vin H	Cam Gear Holding Fixture	527052	J-42042
2001-2002	Oldsmobile	Aurora	3.5L vin H	Crankshaft Socket	527055	J-43032
1999-2002	Oldsmobile	Intrigue	3.5L vin H	Crankshaft Socket	527055	J-43032
2004-2005	Saturn	Vue	3.5L vin 4	Camshaft Holding Tool	536583	EN-46337
2004-2005	Saturn	Vue	3.5L vin 4	Timing Chain Tensioner Pin	536586	EN-46330
2004-2005	Saturn	Vue	3.5L vin 4	Timing Belt Tensioner Retainer	536582	EN-46331

# AUTOMOTIVE SPECIAL TOOLS

## Engine Service



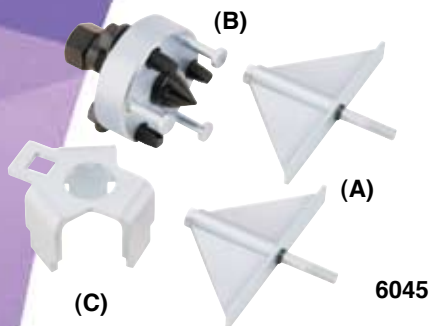
6024

Similar to Ford  
No. 303-448.

### Ford Crankshaft Positioning Tool

- Designed for use on Ford 1993–2004 4.2L, 4.6L 2-valve, 4.6L 4-valve, 5.4L V8, and 6.8L V10 engines when installing timing chains. These engines are not free-wheeling, and if an engine has “jumped time,” it is possible the cylinder heads have to be removed because of damage to the valves or pistons.
- Easily installs over the crankshaft and engine front cover alignment dowel to position the crankshaft at top-dead-center — the correct position for timing chain installation. OTC recommends the No. 6024 be used with Nos. 6009 and 6020 (but it is not required).

**No. 6024** – Ford crankshaft positioning tool. Wt., 10 oz.



6045

### Camshaft Timing Tools

- Indispensable for servicing timing belts on GM 3.4L V6 DOHC engine. Works on 1991–1996 Chevrolet Lumina and 1995–1997 Monte Carlo, 1991–1998 Olds Cutlass Supreme and Pontiac Grand Prix.
- Tool (A) holds the camshaft in the correct position; tool (B) is used to pull the cam gear from the camshaft; and tool (C) is used to turn the cam gear to time the camshaft.

**No. 6045** – Camshaft timing tools. Wt., 3 lbs., 12 oz.



Similar to Miller  
No. 6642

7999

### Chrysler Camshaft Alignment Tool Set

These special brackets are necessary to ensure exact alignment of the camshaft sprockets during timing belt installation on all 1993–current LH vehicles with a 3.5L OHC engine.

**No. 7999** – Chrysler camshaft alignment tool set. Wt., 8 oz.



Similar to  
Miller No. MD-998767

7997

### Chrysler Timing Belt Wrench

Correctly adjusts the timing belt tension on 1991–1994 3.0L DOHC Dodge Stealth, 1992–1994 Eagle Summit, 1992–1994 Dodge Colt, and 1984–1991 2.0L Dodge Colt. For use with a 1/4" drive ratchet.

**No. 7997** – Chrysler timing belt wrench. Wt., 3 oz.



Similar to  
Miller No. C-4703

7695

### Chrysler Timing Belt Adjustment Wrench

Guessing at the correct tension on timing belts is bad news – for you and your customers. To make belt tension adjustment easier on Chrysler’s 2.2L and 2.5L engines, this wrench is a big help. It holds the tension on the belt for you, while you tighten the nut to the correct torque—eliminates over or under tightening. Plus, the weight can be shifted from one side of the wrench to the other to accommodate confining areas.

**No. 7695** – Chrysler timing belt adjustment wrench.

Wt., 13 oz.

### Universal Belt Tension Gauge

- Belt tension gauges are used to check drive belt tension on drive belts to ensure maximum belt and bearing life.
- Scale reads 30–180 inch lbs.

**No. 6673** – Universal belt tension gauge.  
Wt., 1 lb., 7 oz.

6673



### Ford Spark Plug Socket

- This unique design works on 2004–newer Ford vehicles with 5.4L, 4.6L, 5.4L, 3-valve Triton V8 & 6.8L Triton V10 engines.
- Socket end is 9/16". Soft rubber insert holds and protects spark plug during removal and installation.
- Extension is part of the socket. Easily fits down spark plug tube in cylinder head.
- Socket has a 3/8" drive for use with a ratchet or breaker bar.

**No. 6900** – Ford F-150 spark plug socket, 5-7/8" long. Wt., 7 oz.

6900



### 5/8" & 13/16" Spark Plug Sockets

- Works on GM, Chrysler, Ford, and many import vehicles with 5/8" or 13/16" spark plugs.
- Socket end has a soft rubber insert to hold and protect the spark plug during removal and installation.
- Drive end is 3/8" for use with ratchet or breaker bar.

**No. 6899** – 5/8" Spark plug socket, 4-7/8" long. Wt., 7 oz.

**No. 6898** – 13/16" Spark plug socket, 4-7/8" long. Wt., 7 oz.

6899

6898



### 3-Piece Spark Plug Socket Set

This kit combines the most popular spark plug sockets. Each socket has a 3/8" drive end for use with a ratchet or breaker bar. Socket ends have soft rubber inserts to hold and protect the spark plug during removal and installation.

- No. 6898 works on GM, Chrysler, Ford, and many import vehicles with 13/16" spark plugs, 4-7/8" long.
- No. 6899 works on GM, Chrysler, Ford, and many import vehicles with 5/8" spark plugs, 4-7/8" long.
- No. 6900 works on 2004–newer Ford vehicles with 5.4L, 4.6L, 5.4L, 3-valve Triton V8 & 6.8L Triton V10 engines, 5-7/8" long.

**No. 6897** – 3-piece spark plug socket set. Wt., 2 lbs., 2 oz.

6897



### Ford Valve Spring Compressor Tool

Compresses valve springs for quicker, easier camshaft, valve seal, valve spring, or retainer service—because you don't have to remove the head from the engine first! It's an OEM-approved tool that you use with a 3/8" ratchet or breaker bar. Works on: 1991–2004 Ford vehicles with 4.6L, two-valve, V8 engines; 4.6 4V, 5.4 V8 and 6.8 V10.

**No. 7928** – Ford valve spring compressor tool. Wt., 6 oz.

Similar to  
Ford No. 303-567

7928



# AUTOMOTIVE SPECIAL TOOLS

## Engine Service



7786

Similar to  
Ford No. 303-178  
(T82L-6701-A)

### Ford Rear Main Seal Installer

This installer is the most accurate way to ensure that the rear main seal is set to the correct depth on the crankshaft. The installer fits over the seal, and with the two bolts included, attaches to the engine crankshaft. By alternately tightening the bolts, the seal is pulled into place quickly, easily, and with no damage to the rear main seal. Works on 2.0L, 2.3L, 2.3L OHC, 2.5L, 2.5L OHC 4-cylinder engines; 3.0L 2V, 3.0L 4V, 3.4L SOHC, 3.8L, 3.8L SC V6 engines; 4.6L 2V, 4.6L 4V, 5.0L and 5.8L V8 engines.

**No. 7786** – Ford rear main seal installer. Wt., 2 lbs., 4 oz.



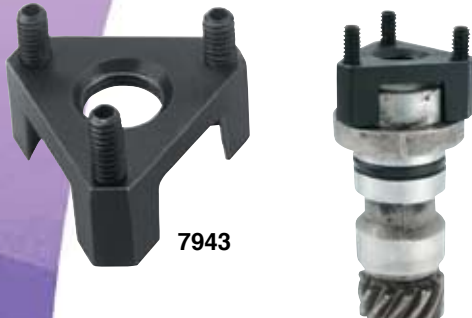
7834

Similar to  
Ford No. 303-5524

### Ford Rear Crankshaft Seal Installer

- This installer works on crankshaft rear oil seals that come with or without a metal wear sleeve.
- Designed for use on 1993–1997 Aerostar or 1993–2006 Ranger and Explorer w/4.0L V6 engine

**No. 7834** – Ford rear crankshaft seal installer. Wt., 1 lbs., 12 oz.



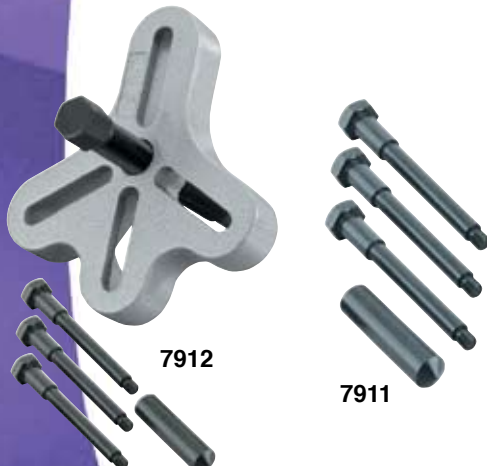
7943

### GM Oil Pump Drive Removal Tool

On certain GM V6 engines, the oil pump drive is difficult to get at, making it a real hassle to remove it to repair o-ring leaks. This tool removes the oil pump drive from the engine without first having to remove the exhaust cross-over pipe or other components.

For 1987–89 2.8L V6 engines; 1990–94 3.1L V6 engines; 1994 and newer 3100 V6 engines; and 1999 and newer 3400 engines.

**No. 7943** – GM oil pump drive removal tool. Wt., 8 oz..



7912

7911

### GM Crankshaft Balancer Puller Kit and Adapter Set

Everything you need to pull harmonic balancers having three tapped holes. The shoulder bolts are designed to prevent them from being installed too deeply, protecting the crank sensor and/or interrupter rings from damage. The spacer adapter gives the puller's forcing screw something to push against. The kit works on 1990–2002 3300 and 3800 V6 engines. The No. 7911 adapter set consists of the spacer adapter and shoulder bolts only, for use with your No. 518 or No. 6930 flange-type puller.

**No. 7911** – GM crankshaft balancer puller adapter set. Includes shoulder bolts and spacer adapter only. Wt., 8 oz.

**No. 7912** – GM crankshaft balancer puller kit. Includes No. 518 flange-type puller and No. 7911 adapter set. Wt., 3 lbs., 2 oz.



6495

### Chrysler Harmonic Balancer Holding Tool

- Designed as a holding ring with three pins to fit into the openings on a harmonic balancer.
- Use with a 1/2" ratchet or breaker bar to hold the harmonic balancer in place when turning the bolt that holds the balancer to the crankshaft. Also use to hold the balancer when removing it from the engine.
- Works on 1990–newer 3.3L V6 vans; 1994–newer 3.8L V6; 1993–1997 3.3L and 3.5L V6 cars; 1998–newer 2.7L, 3.2L, and 3.5L V6 cars.

**No. 6495** – Chrysler harmonic balancer holding tool. Wt., 1 lb., 10 oz.

### Harmonic Balancer Puller

Designed for removing damper pulleys in tight engine compartments, without removing the radiator. Use on the following:

- GM 2000 Generation III 4.8L, 5.3L, 5.7L 6.0L, and 8.1L V8s. Also works on Cadillac 4.5, 4.6, and 4.9L V8s beginning in 1988. Chevrolet trucks 2003–later 4.2L I6, 2004–current 3.5L I5 and 2005–current 2.8L I4.
- Chrysler engines from 1990–later, including 2.0L, 2.4L-4s; plus 2.5L, 2.7L, 3.3L, 3.5L, and 3.8L V6s.
- Ford 1995–later V8 engines with 3 spoke pressed on damper.
- Mitsubishi Eclipse 1995–1999 2.0L DOHC non-turbo.
- Kit contains the 3-jaw puller, four lengths of forcing rods, and a forcing screw with a 3/8" square drive for ratchet use, and a 3/4" hex for wrench or socket use.

#### Replacement rods:

No. 537757-4 – 5/16" x 4"

No. 537757-5 – 5/16" x 5-13/32"

No. 537757-6 – 5/16" x 6-1/2"

No. 537757-7 – 5/16" x 7.13/32"

**No. 6667** – Harmonic balancer puller. Wt., 2 lbs., 11 oz.



### Harmonic Balancer Puller Set

- Includes No. 6267 puller, which removes the harmonic balancer from the crankshaft; and No. 6495 holding tool, which holds the harmonic balancer when tightening or loosening the crankshaft bolt, or removing the balancer.

**No. 6284** – Harmonic balancer puller set, includes both the No. 6267 and the No. 6495 tools. Wt., 3 lbs., 7 oz.



### Chrysler Crankshaft Damper Remover/Installer Kit

The special 3-jaw puller is used with the insert to remove the crankshaft damper whenever timing belt, water pump, or front cover service is required. The tool kit includes a damper installing tool with bearing.

- Services Chrysler-built 2.0L, 2.4L, 2.5L, 3.3L and 3.5L engines.
- 1995–newer 3.3L and 3.5L V6 used in Chrysler New Yorker and Concorde, Dodge Intrepid, and Eagle Vision; 1995–newer 2.0L, 2.4L 4-cyl., and 2.5L V6 used in Cirrus, Stratus, and Breeze; 1995–newer 2.0L 4-cyl. used in Neon.

**No. 6075** – Chrysler crankshaft damper remover/installer kit. Wt., 4 lbs., 8 oz.



### Distributor Bushing Remover

- Used to remove the distributor drive shaft lower bushing from the engine block.
- Works on Chrysler, Dodge, and Plymouth 3.9L V6, 5.2L and 5.9L V8 vehicles with distributors.

**No. 6292** – Distributor bushing remover. Wt., 1 lb., 4 oz.

Similar to  
Miller No. C-3054



# AUTOMOTIVE SPECIAL TOOLS

## Engine Service



### Distributor Bushing Installer/Reamer

- Used to install the distributor drive shaft lower bushing into the engine block. Then use this same tool to ream the new bushing so the distributor drive shaft correctly fits into the bushing.
- Works on Chrysler, Dodge, and Plymouth 3.9L V6, 5.2L & 5.9L V8 vehicles with distributors.
- Compatible with OEM and aftermarket distributor drive bushings.

**No. 6293** – Distributor bushing installer/reamer. Wt., 2 lbs.



### Compression Tester - Deep Well Connector

Use with OTC compression testers or other compression

Features and benefits:

- Solid steel 8" length shaft.
- Upper t-wing grip for ease of installation and removal.
- Popular 14 mm thread for both flat and tapered seat plugs.
- Corrosion resistant nickel plated finish.

**No. 5603** – Compression tester – deep well connector. Wt., 15 oz.



### Compression Tester Ford Adapter

Use with OTC compression testers to access hard to reach spark plug holes.

Features and benefits:

- Works on 2004 and newer Ford 4.6 and 5.4 L, 3 valve Triton™ V-8 engines. (Triton is a Registered Trade Mark of the Ford Motor Co.)
- Easy-to-turn feature makes starting thread fast.
- Use with compression testers with 14 mm thread.

**No. 5607** – Compression tester Ford adapter. Wt., 15 oz.



### Compression Tester Kit

Designed for complete compression testing on gasoline engines, including domestic, imports, motorcycles, marine, and small engines. Unique problem solving features for today's limited space engine compartments.

Features and benefits:

- Corrosion resistant nickel plated finish.
- Adapters work on both flat and tapered seat plugs.
- Extra long 25" flex hose gauge assembly with quick coupler, allows easy viewing out of cluttered engine compartment.
- 2-1/2" gauge features chrome bezel and rugged protective outer boot.
- Dual scale gauge reads 0-300 psi and 0-2100 kPa.
- 12" flex-14 mm standard reach.
- 12" flex-14 mm long reach.
- 10 mm, 12 mm, and 18 mm thread adapters.
- Rugged blow molded hard case with removable lid.
- Repair parts kit.

**No. 5606** – Compression tester kit. Wt., 3 lbs., 11 oz.



### Motorcycle Compression Tester Kit

Designed specifically for testing motorcycle and small engines, this kit features a specially designed compression gauge and hose assembly, plus three different size hose adapters. Compression Tester and hose lengths are designed for optimal viewing along side engine. Covers most popular motorcycle and small engine plug sizes.

#### Functions and Features:

- Corrosion resistant nickel plated finish
- 10" flex hose gauge assembly with quick coupler.
- 2-1/2" gauge features chrome bezel and rugged protective outer boot
- Dual scale gauge reads 0-300 psi and 0-2100 kPa
- 12" flex hose -14 mm standard/plus reach (extra length supports V-Twin applications)
- 12" flex hose -12 mm standard reach
- 12" flex hose -10 mm standard reach
- Rugged blow molded hard case with removable lid
- Repair parts kit

**No. 5604** – Motorcycle compression tester kit. Wt., 3 lbs., 14 oz.



### Deluxe Compression Tester Kit

Complete with standard and specialty adapters, this deluxe kit offers a complete package for compression testing on gasoline engines. Kit includes the deep well connector used on recessed plug well style heads and the new Ford Triton™ engine adapter using 16 mm thread plugs.

#### Functions and Features:

- Corrosion resistant nickel plated finish
- Adapters work on both flat and tapered seat plugs
- Extra long 25" flex hose gauge assembly with quick coupler, allows easy viewing out of cluttered engine compartment
- 2-1/2" gauge features chrome bezel and rugged protective outer boot
- Dual scale gauge reads 0-300 psi and 0-2100 kPa
- 8" deep well 14 mm connector
- 5" flex Ford Triton™ 16mm adapter
- 12" flex-14 mm standard reach
- 12" flex-14 mm long reach
- 10 mm, 12mm, and 18 mm thread adapters
- Rugged blow molded hard case with removable lid
- Repair parts kit

**No. 5605** – Deluxe compression tester kit. Wt., 4 lbs., 10 oz.



Ford Triton is a Registered Trade Mark of the Ford Motor Company.

# AUTOMOTIVE SPECIAL TOOLS

## Engine Service



### Cylinder Leakage Tester Kit

Quickly diagnose internal engine problems such as bad rings, valves and leaking head gaskets. Kit come complete with adapters for most applications.

Features and benefits:

- Dual 2-1/2" gauges feature chrome bezel and rugged protective outer boot.
- Scales read 0-100 psi and 0-700 kPa.
- Pressure regulated manifold includes quick couplers.
- Long flex 24" 14 mm hose.
- 10 mm, 12 mm and 18 mm thread adapters.
- Blow molded hard case with removable lid.
- Detailed instruction chart.

**No. 5609** – Cylinder leakage tester kit. Wt., 4 lbs.



### Transmission/Engine Oil Pressure Kit

The 5610 professional kit can be used for domestic and import applications. High and low pressure gauges make this kit useful for both transmission and engine work. Kit comes complete with adapter for most applications. Designed to be used for both static and on road testing.

Features and benefits:

- Large 3-1/2" gauges feature a chrome bezel and rugged protective outer boot.
- Low pressure gauge reads 0-100 psi and 0-700 kPa.
- High pressure gauge reads 0-400 psi and 0-2800 kPa.
- Both gauges include rear hook to allow gauge to be hung conveniently out of the way.
- Gauges and hose assembly incorporate quick couplers for easy disconnect.
- Kit includes 13 adapters and a detailed instruction manual.
- Blow molded hard case with removable lid.

**No. 5610** – Transmission/engine oil pressure kit. Wt., 5 lbs., 3 oz.



### Vacuum/Pressure Gauge Kit

The 5613 is deal for testing vacuum lines and components. Accurately tests low-pressure fuel systems. Quickly diagnose internal engine problems such as bad rings, valves and leaking head gaskets. Kit comes complete with adapter for most applications. Pin point hard to find problems such as cracked lines, PCV, fuel pump, fuel filters and more.

Features and benefits:

- Large 3-1/2" gauge features a chrome bezel and rugged protective outer boot.
- Dual purpose gauge reads vacuum and pressure.
- Dual scale gauge reads 0-30 in. Hg vac and 0-70 cm Hg, also reads 0-15 psi and 0-100 kPa.
- Built in rear hook allows gauge to be hung at eye level.
- Adapters for most applications.
- Blow molded hard case with removable lid.
- Detailed instruction chart.

**No. 5613** – Vacuum/pressure gauge kit. Wt., 3 lbs.

### Universal Overhead Valve Spring Compressor

- Permits removal and installation of valve springs without removing the cylinder head on many cars and light trucks. Durable steel construction.
- Spring loaded offset jaws easily grip and compress valve springs.

**No. 4573** – Universal overhead valve spring compressor. Wt. 1 lb.

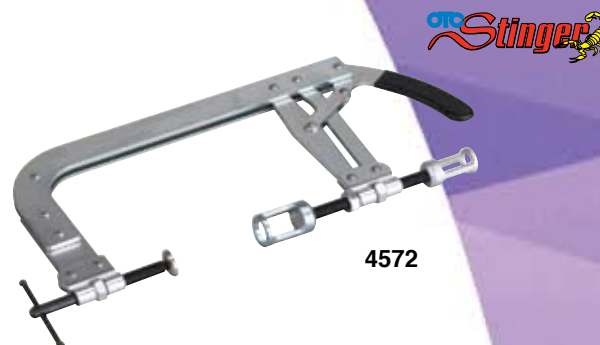


4573

### Large Valve Spring Compressor

- Designed to compress valve springs on overhead valve engines.
- Includes two valve spring adapters, which fit valve spring retainers up to 1" (25 mm) and 1-3/16" (30 mm).
- Unique, direct action compressor lever gives better visibility of valve spring retainers located in difficult access areas.
- Jaw opening of 1-3/8" to 5-5/8" (35 mm to 142 mm); throat clearance of 5-7/8" (150 mm).

**No. 4572** – Large valve spring compressor. Wt. 5 lbs.



4572

### Honda / Acura Crankshaft Damper Holding Tool

- Tool allows the technician to hold the crankshaft damper when tightening or loosening the crankshaft bolt.
- 50mm hex on holding tool.
- Works on the following Honda and Acura engines:

1990–1997 Honda Accord 2.2L 4 cyl.

1996–1997 Honda Accord 2.7L V6

1998–newer Honda Accord 2.3L 4 cyl. & 3.0L V6

1992–newer Honda Civic 1.6L 4 cyl.

1997–newer Honda CR-V 2.0L 4 cyl.

1993–1997 Honda Del Sol 1.6L 4 cyl.

2000–newer Honda Insight 1.0L 3 cyl.

1995–1997 Honda Odyssey 2.2L 4 cyl.

1998 Honda Odyssey 2.3L 4 cyl.

1999–newer Honda Odyssey 3.5L V6

1992–newer Honda Prelude 2.2L 4 cyl.

1992–1996 Honda Prelude 2.3L 4 cyl.

2000–newer Honda S2000 2.0L 4 cyl.

1997 Acura CL 2.2L 4 cyl.

1997–1998 Acura CL 3.0L V6

1998–1999 Acura CL 2.3L 4 cyl.

2000–newer Acura CL 3.2L V6

1990–1992 Acura Integra 1.6L 4 cyl.

1992–1993 Acura Integra 1.7L 4 cyl.

1993–newer Acura Integra 1.8L 4 cyl.

1991–1995 Acura Legend 3.2L V6

1996–newer Acura RL 3.5L V6

1995–newer Acura TL 3.2L V6

**No. 4731** – Honda/Acura crankshaft damper holding tool.



4731

### Flange Puller

Pulls harmonic balancers, timing gears, and parts having two or three tapped holes. Slotted holes in puller body permit cap screws to be positioned to handle bolt circle diameters from 1/2" to 4-5/8". Reach of puller is 4-1/4". Includes three cap screws (3/8"–24 x 3"), and three cap screws (3/8"–16 x 3").

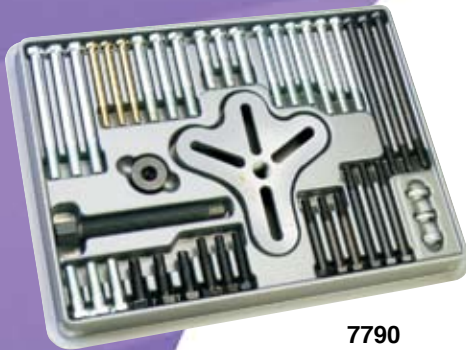
**No. 6930** – Flange puller. Wt., 3 lbs. 4 oz.



6930

# AUTOMOTIVE SPECIAL TOOLS

## Engine Service



7790

### Flange-Type Puller Set – 48 Piece

- Versatile puller capable of removing a wide variety of components having tapped pulling holes, including harmonic balancers, gears, crankshaft pulleys, etc.
- Capable of handling 2- or 3-way bolt pulling applications.
- Works on many cars, pickups, SUVs, and small engines.
- Carries the OTC Lifetime Marathon Warranty® against defects in workmanship and material.

#### Contents of set:

- Puller flange: adapts to bolt circle dia. of 1-1/2" to 4-5/8".
- Forcing screw: 5-5/8" lg., 5/8-18 thread.
- Shaft protector: 1-3/16" dia. x 3/4" thick.
- Three each of the following flat washers: 1/4"; 5/16"; 3/8".
- Three each of the following bolt sizes:

1/4"-28 x 3" lg.	3/8"-16 x 3" lg.
5/16"-24 x 3" lg.	3/8"-16 x 4-1/2" lg.
5/16"-18 x 3-1/2" lg.	M8 x 1.25 x 45 mm lg.
5/16"-18 x 6" lg.	M8 x 1.25 x 65 mm lg.
3/8"-24 x 1-1/2" lg.	M8 x 1.25 x 90 mm lg.
3/8"-16 x 2" lg.	M10 x 1.5 x 35 mm lg.

**No. 7790** – Flange-type puller set – 48 piece. Wt., 7 lbs., 3 oz.



6294

### Flange-Type Puller Set

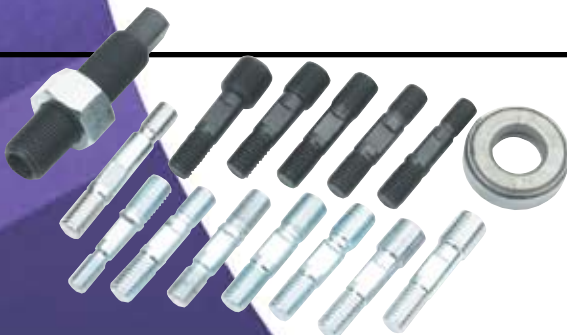
- Covers almost every car, pick-up, SUV, and small engine.
- Capable of handling almost every two- or three-way bolt pull possible.
- For use on a variety of jobs: harmonic balancers, steering wheels, crankshaft pulleys, and gears.
- OTC Lifetime Marathon Warranty® covers defects in workmanship or materials.
- Storage tray and detailed application chart included.
- Slotted holes in puller flange permit cap screws to be positioned to handle bolt circles from 1-1/2" to 4-1/4".

#### Contents of set:

- Three each of the following washer head bolts (Grade 8):

M8 x 1.25 x 90 mm	M8 x 1.25 x 45 mm	1/4-28 UNF x 3"
M8 x 1.25 x 65 mm	5/16-18 UNC x 3.5"	5/16-24 UNF x 3"
3/8-24 UNF x 1.5"	3/8-16 UNC x 2"	3/8-16 UNC x 3"
3/8-16 UNC x 4.5"	M10 x 1.5 x 35 mm	
- Special stepped bolts– 1990–2002 GM 3300-3800 V6 crankshaft pulleys.
- Two forcing screws: 6" long and 3" long.
- Two pointed forcing screw center tips.
- Two flat forcing screw center tips.

**No. 6294** – Flange-type puller set. Wt., 6 lbs., 13 oz.



6505

### Master Harmonic Balancer Installer

- 11 special adapters make this a complete master harmonic balancer installer set for most car and light truck applications.
- The heavy-duty 7/8" diameter forcing screw has internal threads to fit the threaded adapters.
- Plastic storage tray keeps set components organized for easy selection.

**No. 6505** – Master harmonic balancer installer. Wt., 2 lbs., 13 oz.

### Harmonic Balancer Puller/Installer Set

- For easy removal of most harmonic balancers and drive pulleys which are press-fitted onto the crankshaft. A bearing-centered circular 2/3-way puller flange and an assortment of metric and fractional bolts and adapters provide wide coverage.
- A heavy-duty, 3/4" dia. forcing screw is internally threaded to fit the eight adapters to install harmonic balancers. Adapter sizes included: M16 x 2.0, M14 x 1.5, M12 x 1.5, 3/4"-16, 5/8"-18, 9/16"-18, 1/2"-20 and 7/16"-20.
- A blow-molded plastic storage case keeps set contents organized and protected from loss.

**No. 4531** – Harmonic balancer puller/installer set.  
Wt., 8 lbs., 13 oz.



### BMW Head Bolt Socket

- Socket is designed to fit in the cylinder head on M42 and M50 engines to remove and install cylinder head bolts.
- Spring loaded detent ball holds bolt in place.
- Works with 1/2 inch ratchet, breaker bar, or torque wrench.
- Socket size is E12 for external TORX® bolts.

**No. 5940** – BMW head bolt socket. Wt., 8 oz.



### Toyota Head Bolt Socket

- Specially designed socket is needed to tighten or loosen head bolts on Toyota Paseo vehicles with 3S-GE and 3S-FE engines.
- 8 mm socket features a 12-point, 1/2 inch drive socket.

**No. 6022** – Toyota head bolt socket. Wt., 13 oz.



Similar to Toyota  
No. 09043-50080

### Universal Pulley Holder

- Universal design fits many different size pulleys having slots or holes, such as camshaft pulleys or crankshaft pulleys.
- Wrench is adjustable from 1-1/2" to 8-5/8"; four different size step pins are interchangeable.
- Long handle enables technician to easily hold the pulley when tightening or loosening retaining bolts.

**No. 4754** – Universal pulley holder. Wt., 4 lbs., 15 oz.



### Serpentine Belt Tool

- Fits tensioner pulleys with 13 mm–16 mm, 18 mm hex or 3/8" and 1/2" square drives.
- For hard to access tensioners; there are 13 mm and 15 mm 12-point wrenches built into the handle.
- 13 mm, 14 mm and 15 mm crows foot wrenches also included.

**No. 4645** – Serpentine belt tool. Wt., 4 lbs., 13 oz.



# AUTOMOTIVE SPECIAL TOOLS

## Engine Service

### Engine Preluber Kit

- Ensures oil is present to internal engine components on the first start of a new or rebuilt engine, or after major engine work is performed.
- Required to prime the oil pump and fill the oil galleries and internal engine components with clean, new oil.
- Connects to engine oil system at the oil pressure sensor on a variety of domestic and import engines.
- Oil pressure sensor adapters included.

**No. 6492** – Engine preluber kit. Wt., 2 lbs., 5 oz.



### Variable Pin Spanner Wrench

- Universal design fits many different types of pulleys having slots or holes, including camshaft pulleys and crankshaft pulleys.
- Wrench is adjustable from 1-1/4 inch to 5 inches; works with a 1/2 inch drive ratchet or breaker bar.

Replacement Parts:

526908-1..... 3.5 mm pin	526908-5 ..... 6 mm pin
526908-2..... 4 mm pin	526908-6 ..... 7 mm pin
526908-3..... 4.5 mm pin	526908-7 ..... 10 mm pin
526908-4..... 5 mm pin	526908-8 ..... Handle

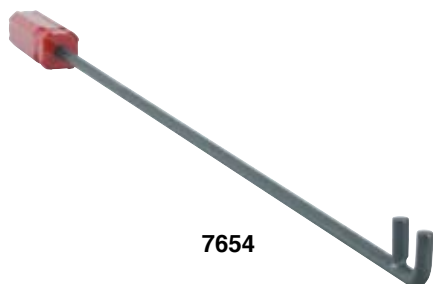
**No. 6613** – Variable pin spanner wrench. Wt., 2 lbs.



### Belt Installation Tool

With this tool and the correct serpentine belt tool for the job, installing those almost impossible serpentine belts is a lot less frustrating and time-consuming. The two-pin hook end holds the belt for precise placement, and the handle gives you the grip you need to maneuver it around the pulleys easier. It's also a handy tool to have around for installing V-belts and timing belts that are never in easy-to-reach places. 25" long.

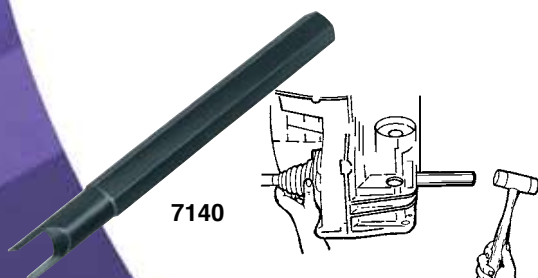
**No. 7654** – Belt installation tool. Wt., 10 oz.



### Ford Halfshaft Remover/Differential Rotator

No. 7140 is essential when removing the left-hand halfshaft from Escort/Lynx transaxles. It ensures correct removal and allows the technician to turn the differential.

**No. 7140** – Ford halfshaft remover/differential rotator. Wt., 1 lb., 13 oz.



### Delco Alternator Insulator Wrench

Getting the positive battery wire off the back of Delco alternators should be a quick and easy job. But if you turn the nut holding the battery wire and don't keep the terminal stud from twisting, there's a good chance the insulator will break. Keep a simple job simple with the No. 7780 insulator wrench. It steadies the insulator block on new Delco CS and older Delco SI alternators found on many GM vehicles (1972 and newer), and 1975–90 AMC and Jeep vehicles.

**No. 7780** – Delco alternator insulator wrench. Wt., 3 oz.



7780

### Frost Plug Installer Set

- Designed to install frost plugs in liquid-cooled gas and diesel engines found in automobiles, trucks, SUVs, agricultural equipment, and construction equipment.
- Simply use an air hammer with the driver and appropriate disc to install frost plugs ranging from 1" to 2-1/16" in diameter.

Set contains: No. 4604-1 Driver (14" lg.); No. 4604-2 Frost Plug Disc Set (3 qty.).

**No. 4604** – Frost plug installer set. Wt., 1 lb., 13 oz.



4604

### Frost Plug Remover/Installer Set

- Designed to remove and install frost plugs used in liquid-cooled gas and diesel engines found in automobiles, trucks, SUVs, agricultural equipment, and construction equipment.
- Simply use a hammer with the driver and appropriate disc to install frost plugs ranging from 1" to 2-3/8" in diameter.

Set contains: No. 4603-1 Installer Handle (18" lg.); No. 4604-2 Frost Plug Remover; No. 4604-3 Frost Plug Disc Set (7 ea., plus 1 retaining nut).

**No. 4603** – Frost plug remover/installer set. Wt., 6 lbs.



4603

### Glow Plug Remover

Set includes 10 mm and 12 mm split nuts, three spacers (3/16", 1/4", and 5/16"), plastic storage/organizer case and instructions. The 10 mm split nut will work on Ford 6.9L and 7.3L diesels; GM 5.7L, 6.2L, and 6.5L diesels; and various diesels in import vehicles. The 12 mm split nut works on various diesels in import vehicles, plus many agricultural and construction diesel applications.

**No. 6005** – Glow plug removal tool. Wt., 5 oz.

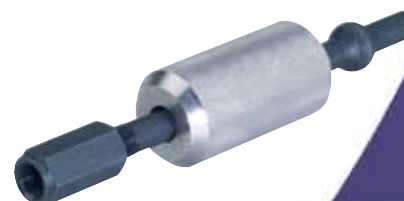


6005

### Fuel Injector Nozzle Puller

- Pulls fuel injection nozzles on Ford 6.9L/7.3L and Navistar DT466/9L diesel engines.
- Slide hammer action gives an even, straight pull on the nozzle for fast, easy removal.
- Puller nut screws onto injector nozzle inlet port.

**No. 7454** – Fuel injector nozzle puller. Wt., 1 lb., 15 oz.



7454

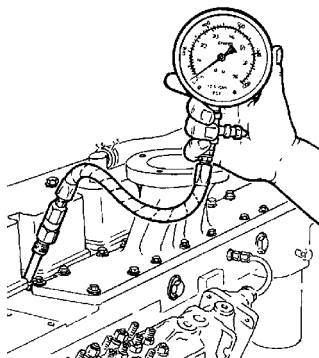
# AUTOMOTIVE SPECIAL TOOLS

## Engine Service



5020

Similar to  
Ford No. 303-D091  
(D93T-6000-A)



### Diesel Compression Tester with Adapters

Easy-to-use compression tester is designed specifically for medium-duty diesel engines equipped with glow plugs. Dual reading gauge measures compression to 1000 psi and 7000 kPa. Gauge has a push-button release valve and quick disconnect fittings on the hose end. Tester comes with all the necessary glow plug and nozzle adapters in a handy storage case.

Tester services these engines:

- Cummins B and C
- Navistar DT466/DT360
- Ford/Navistar 6.9 & 7.3L
- GM 6.2L and 6.5L
- Hino diesel and Mitsubishi Fuso truck engines

**No. 5020** – Diesel compression tester with adapters. Wt., 7 lbs., 13 oz.

Replacement Adapters (available separately):

**No. 47484** – Hino diesel truck engines with 12 mm x 1.25 threads.

**No. 209633** – Ford 6.6L & 7.8L diesels.

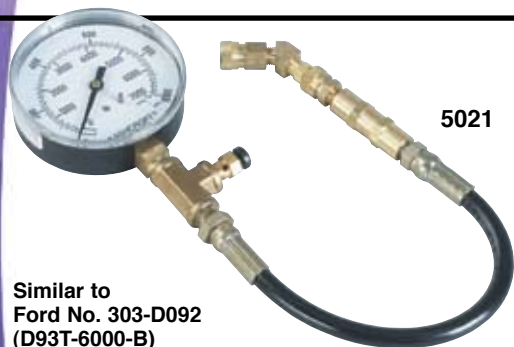
**No. 217791** – Cummins B & 5.9L.

**No. 308472** – Mitsubishi Fuso truck 4D & 6D engines with 10 mm x 1.25 threads.

**No. 310810** – Cummins C.

**No. 310832** – Ford/Navistar 6.9 & 7.3L, Detroit 6.2L with 10 mm x 1.0 threads.

**No. 310840** – Navistar DT466/DT360.



5021

Similar to  
Ford No. 303-D092  
(D93T-6000-B)

### Universal Diesel Engine Compression Gauge

Works on any diesel engine to test compression up to 1000 psi and 7000 kPa. Features include a check valve, push button compression release, and a quick disconnect fitting on the hose end. Straight and 45° hose connectors are included.

**No. 5021** – Universal diesel engine compression gauge. Wt., 1 lb., 8 oz.

**No. 304802** – Replacement gauge. Wt., 8 oz.



6076

### Ford Diesel Compression Test Adapter

When the glow plug is removed from the cylinder, this adapter is used to connect the No. 5021 gauge to perform a compression test.

- Works on 1994–newer Ford vans and pickups with 7.3L direct-injected turbocharged (DIT) diesel engine.

**No. 6076** – Ford diesel compression test adapter. Wt., 5 oz.



6660

### Compression Tester

- Use with OTC No. 5021 diesel engine compression gauge.
- Works on 2003-2006 Ford vans and trucks with 6.0L diesel engines.

**No. 6660** – Compression tester. Wt., 7 oz.



### Ford Rear Main Oil Seal Kit

- Works on 1994–2003 7.3L diesel engine in Ford 3/4- and 1-ton trucks.
- A complete kit with the tools you need to correctly remove and install the rear main oil seal and wear ring on the crankshaft.
- Eliminates makeshift methods of seal removal and installation that could damage the new seal or crankshaft.

**No. 7835** – Ford rear main oil seal kit. Wt., 7 lbs.



### Ford 5-pin Connector Harness for Glow Plug Testing

- Provides an easy way to check glow plug resistance without having to remove the valve cover of 1994–98 Ford trucks and vans with 7.3L DIT (direct-injected turbocharged) diesel engines.
- Used with any standard digital volt ohmmeter to check glow plug resistance.

**No. 6088** – Ford 5-pin connector harness for glow plug testing. Wt., 3 oz.



### Ford 9-pin Connector Harness for Glow Plug Testing

- Permits testing glow plug resistance without having to remove the valve cover of 1998-1/2 thru 2003 Ford trucks and vans with 7.3L DIT (direct-injected turbocharged) diesel engines.
- Use with any standard digital volt ohmmeter to check glow plug resistance.

**No. 6089** – Ford 9-pin connector harness for glow plug testing. Wt., 4 oz.



### Ford Oil Line Disconnect Tool for 6.0 L

- Use to disconnect the high-pressure oil rail supply line from the fuel rail when removing fuel injectors.
- Works on the 6.0: diesel engine found in 2003–newer F-250, F-350, F-450, and F-550 trucks, and Ford Excursions.

**No. 6594** – Ford oil line disconnect tool for 6.0 L. Wt., 5 oz.

Similar to  
Ford No. 303-755

6594



# AUTOMOTIVE SPECIAL TOOLS

## Engine Service

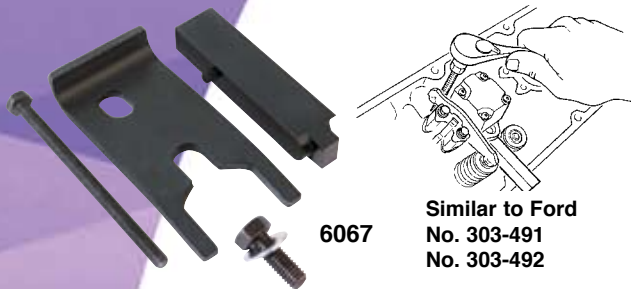


Similar to Ford  
303-625

### Ford High Pressure Oil Line Disconnect Tool

- Use to disconnect the high pressure oil line from the cylinder head.
- Works on 1998 - 2003 Ford vans and trucks with 7.3L direct-injected, turbo-charged (DIT) diesel engines.

**No. 6595** – High pressure oil line disconnect tool.  
Wt., 3 oz.



Similar to Ford  
No. 303-491  
No. 303-492

### Ford Injector Remover / Installer Kit

- Removes and installs injectors without damaging the injector or cylinder head.

Application: 1994–2003 Ford 3/4- and 1-ton trucks, Super Duty trucks, and vans with 7.3L direct-injected turbocharged (DIT) diesel engine.

**No. 6067** – Ford injector remover/installer kit.  
Wt., 6 oz.



Similar to  
Miller No. 8318

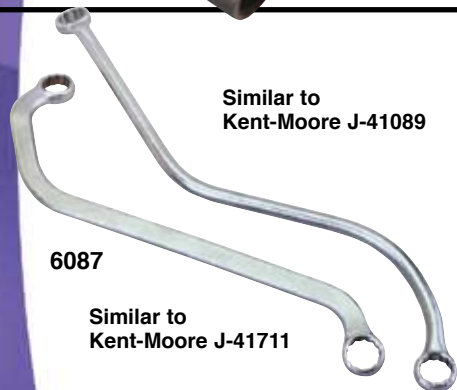
6069

### Cummins Diesel Fuel Injector Remover Kit

Kit contains a fuel injector connector tube remover and fuel injector puller. The fuel injector connector tube must be removed before removal of the injector, or both will be damaged.

Application: 1998-1/2–2002 Dodge pickups and vans with 5.9L 24-valve Cummins diesel turbo engine.

**No. 6069** – Cummins diesel fuel injector remover kit.  
Wt., 8 oz.



Similar to  
Kent-Moore J-41089

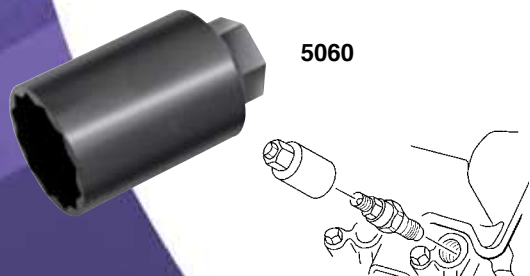
6087

Similar to  
Kent-Moore J-41711

### GM Injection Pump Wrench Set

- Use to loosen or tighten injection pump retaining bolts whenever pump timing adjustment or pump service is required. Services 1996–1999 GM full-size 2- and 4-wheel drive trucks, vans, and Suburbans with 6.5L diesel engine.
- Two specially bent wrenches are needed, due to the location of the throttle, cruise control, T.V. cable bracket, cooling system crossover pipe and bracket, and the thermostat housing on vans and pickups.
- Wrenches are 15 mm, 12-point, double box-end type.

**No. 6087** – GM injection pump wrench set. Wt., 1 lb.



5060

### Detroit Diesel Injector Socket

Used on GM 6.2L and 6.5L engines. This 30 mm socket ensures proper fit during nozzle removal and installation. The 3/8" square drive and 7/8" hex permit easy access in tight quarters, and prevent damage to nozzle and related components.

**No. 5060** – Detroit diesel injector socket. Wt., 8 oz.

### Cummins Engine Barring Tool

Need to manually rotate an engine? This tool makes the job easy. Just insert the tool into the flywheel housing until it engages the ring gear, then attach a 1/2" square drive ratchet or breaker bar and turn. The tool's load-bearing collar provides friction-free operation while rotating the tool in the housing.

- Works on Cummins B and C series diesel engines and 5.9L liter diesels used in Dodge pickups.

**No. 7471A** – Cummins engine barring tool. Wt., 11 oz.



7471A

### Master Cummins Diesel Fuel Injection Test Kit

Includes the fittings and gauge needed to check fuel pressure, fuel volume, and fuel restrictions from the delivery pump to the injection pump.

Contents:

- No. 518501 - Special quick-disconnect banjo fitting (M14 x 1.5 male).
  - No. 7915 - Two fuel injection quick-coupler adapters.
  - No. 518493 - Quick-disconnect banjo fitting (M12 x 1.5 male).
  - No. 223336 - Gauge assembly.
  - No. 6082 - Fuel volume test adapter.
  - No. 6078 - Diesel fuel inlet restriction test adapter.
- For 1988–98 Dodge pickups and vans with 5.9L 12-valve, and 1998-1/2–newer 5.9L 24-valve Cummins diesel engines.

**No. 6080** – Master Cummins diesel fuel injection test kit. Wt., 5 lbs.



6080

### Cummins Diesel Fuel Volume Test Adapter

Used to perform fuel volume test of fuel transfer pump. Fuel volume is as important as fuel pressure. Pump may pass pressure test, but fail volume test. No. 6082 fitting is threaded into transfer pump. The end of the 2 ft. tubing is placed into a container for fuel to be measured.

This adapter is included in OTC Master Kit No. 6080.

Application: 1994–1998-1/2 Dodge pickups and vans with 5.9L 12-valve Cummins diesel engine.

**No. 6082** – Cummins diesel fuel volume test adapter. Wt., 3 oz.



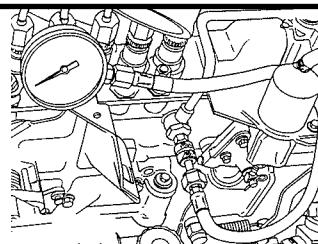
6082

### Special Quick-Disconnect Banjo Fitting

Adapter fitting (M14 x 1.5 male) is used to check fuel pressure from the delivery pump to the injection pump. Used with gauge assembly of OTC set No. 6079. Has quick-connect schrader valve on end of fitting for safety and ease of hook-up to gauge. Included in OTC kit No. 6080.

Application: 1996–1998-1/2 Dodge pickups and vans with 5.9L 12-valve Cummins engine.

**No. 518501** – Special quick-disconnect banjo fitting. Wt., 3 oz.



518501

# AUTOMOTIVE SPECIAL TOOLS

## Coolant Exchange

Works on both pressurized and non-pressurized cooling systems



10-Minute Exchange Process



Back View:  
7-gallon capacity supply tanks allow storage of different coolants.



75700

### Specifications:

Power Supply – 90 psi shop air

Tanks – Internal waste – 15-gallon capacity  
– External supply (2) 7-gallon capacity (removable)

Dimensions: 47" H x 26" W x 33" D (119 cm x 66 cm x 84 cm)

Medium Step Adapter . . . . . Two included;  
fits hose size 1-1/4", 1-3/8", and 1-1/2"

Large Step Adapter . . . . . Two included;  
fits hose size 1-3/4", 2", and 2-1/4"

### Coolant Exchange Unit

Designed with the user in mind.

#### Increase Your Profits

- Our 10-minute exchange process means no more waiting for the engine to warm up!

#### Safety First

- Our "engine off" feature removes pulleys, belts, and fan blades from the safety equation.
- No additional ventilation required.
- Vacuum mode creates a "push/pull" exchange process allowing the technician to safely remove high pressure in a hot system.
- "Hands-off" transfer of used coolant to a bulk tank prevents spills and helps protect the technician.

#### Simple to Operate

- Two clearly marked valves and an easy-to-read gauge make this machine very simple to use.
- Sight glass clearly shows the amount of coolant in the waste tank.
- One valve controls the flow of coolant; process is easy to understand—no special training needed.
- No electricity required. 90 psi shop air drives the exchange process, as well as the 2 gpm pump on the waste tank.

#### Designed to Survive

- Impact-resistant polypropylene cabinet will not scratch or dent vehicle.
- Cabinet is impervious to chemicals commonly used in the shop.
- Large, inflatable tires carry a well-balanced platform easily across any shop floor.
- Easy to maneuver between bays and vehicles.

#### Extra Design Features

- Two external new coolant supply tanks allow on-board storage of two different coolant types.
- Graduations on tanks show user the amount of new coolant on board.
- On-board storage of step adapters.
- Adapter kit included.
- No hoses to cut.
- 96" hoses can be neatly stored on unit.
- One-year warranty.

**No. 75700** – Coolant exchange unit. Wt., 180 lbs.

**No. 75115** – Replacement coolant 5-gallon tank.

**No. 75360** – Heavy-duty adapter kit. Links the two tanks for 14 gal. capacity to service class A vehicles. (Note: must have 7-gallon tank No. 75370).

**No. 75370** – Replacement coolant 7-gallon tank.

**No. 17490** – Protect your investment with a heavy-duty vinyl dust cover. Features corded seams for durability; medium gray color with CoolTech logo.



### Coolant and Battery Refractometer

This can be used for measuring the freezing point of either propylene and ethylene glycol based cooling systems. It can also be used for checking the strength of electrolyte solution in batteries. This precision instrument features high quality optics with ultra smooth focusing on the body. Coolant scale range: 32° F/0° C to -60° F/ -51° C.

**No. 75240** – Coolant and battery refractometer (C & F scales). Wt., 12 oz.



75240

### Econo-Clean Coolant Service Accessories

To ensure coolant will provide adequate protection to the vehicle, the coolant should be adjusted to the manufacturer's specifications. These accessories will help you quickly test coolant.

**No. 75133** – Pocket pH pen – Quickly shows the pH of the coolant, whether used or recycled. Wt., 7 oz.

**No. 75134** – Coolant test strips – Just dip a strip in coolant and it shows the freeze point and the pH; bottle of 50 strips. Wt., 15 oz.

**No. 75234** – 3-way heavy-duty truck coolant test strips – shows pH, freeze point, and nitrite (0–4000 ppm), pH <7.5–11+, glycol 0–60%. Wt., 1 lb.



75133

75234

75134

### Coolant Refiller

- 26" Hg vacuum refills cooling system without air lock.
- Eliminates the need for "bleeding."
- Checks for system leaks and utilizes OEM approved technology.
- Universal "fits all" cone adapter.
- Built-in gauge protector.

**No. 75260** – Coolant refiller. Wt., 1 lb., 12 oz.



75260

### Radiator Coolant Dye

- Pinpoint leaks in radiators, hoses/fittings, water pumps, and head gaskets.
- Extended-life dye is specifically formulated for use in extended-life coolants. This eliminates the color distortion problem found in the existing regular radiator coolant dye when mixed with extended-life coolant.
- Extended-life dye is for use with red, orange, or yellow extended-life coolants.
- Each bottle services one vehicle.

**No. 16266** – Extended-life radiator coolant dye. Six (1 oz./30 ml) bottles. Wt., 8 oz.

**No. 16255** – Standard radiator coolant dye. Six 1/4 oz. (7.5 ml) bottles. Wt., 4 oz.



16266



16255



# AUTOMOTIVE SPECIAL TOOLS

## Coolant Service



### Cooling System Pressure Tester

Now you can pressure test the cooling system on most cars, light commercial trucks, motorcycles, and even marine applications. The tester's universal fit eliminates the need for multiple adapters.

**Note:** Will not work on Saturn and Kia cars or Jeep with the plastic reservoir.

**No. 7991** – Cooling system pressure tester.

Wt., 3 lbs., 2 oz.

**No. 70600-96** – Replacement bladder.

Wt., 1 oz.



### Hose Clamp Pliers Set (2 piece)

- Includes a cross-slotted jaw pliers and a wide, flat-band hose clamp pliers. Services most ring-type or flat-band hose clamps.

- The clamps are held open with a ratchet locking mechanism. Jaws swivel to access hose clamps in any position.

**No. 4502** – Hose clamp pliers set. Wt., 1 lb., 3 oz.



### Hose Clamp Pliers Set

- Contains five different styles of hose clamp pliers, which will service most flat-band and ring-style hose clamps. Also contains a hose removal tool.

Set Contains:

- Straight hose clamp pliers set
- Hose removal tool
- Flat-type hose clamp pliers
- Offset hose clamp pliers
- 45° hose clamp pliers

**No. 4496** – Hose clamp pliers set.

Wt., 3 lbs., 13 oz.



### Vacuum Hose and Fuel Line Removal Tool

- Designed to remove vacuum hose or fuel lines (3/16" to 1/2") from fittings or tubing.

- Simply place the black jaw on the fitting or tubing – the jaw will grip the material. Then use the silver jaw to push the vacuum hose or fuel line off the fitting or tube.

**No. 4522** – Vacuum hose and fuel line removal tool.

Wt., 3 oz.

### Offset Hose Clamp Pliers

- Head is offset from handle to allow access to hard-to-reach clamps.
- Swivel jaws allow pliers to be used on many different flat-band and ring-type hose clamps.

**No. 4523** – Offset hose clamp pliers. Wt., 5 oz.



4523

### 45° Hose Clamp Pliers

- Jaws are bent at a 45° angle and pliers tips swivel to allow easy access to confined areas.
- Ratchet lock mechanism holds jaws open.
- Works on most flat-band hose clamps.

**No. 4524** – 45° hose clamp pliers. Wt., 5 oz.



4524

### Flexible Hose Clamp Pliers

- Allows technician to access the flat-type hose clamps located in hard-to-access areas.
- Pliers has locking mechanism to hold clamp in the open position – makes removal and installation of clamp much easier.
- Heavy-duty, 24" cable flexes to almost any position.

**No. 4525** – Flexible hose clamp pliers. Wt., 5 oz.



4525

### Hose Removal Tool

- Unique tip easily fits between hose and fitting to break stubborn hoses loose.
- Large handle provides a good grip on tool during hose removal.
- Works on radiator hoses, heater hoses, transmission lines – any place a rubber hose is clamped to a fitting.

**No. 4521** – Hose removal tool. Wt., 7 oz.



4521

# AUTOMOTIVE SPECIAL TOOLS

## Water Pump & Multipurpose Cleaning Gun

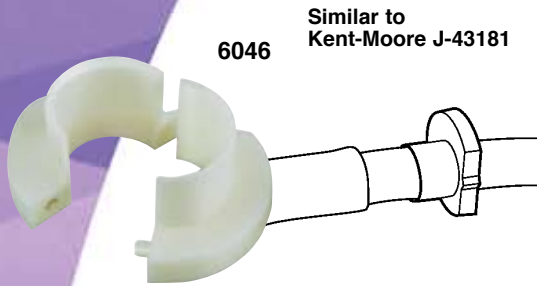


6060A

### GM Water Pump Socket

- Works on 1993–newer Cadillac 4.6L V8 Northstar engine, and 1995–1999 Oldsmobile Aurora 4.0L V8.
- 1/2" sq. drive for use with 1/2" drive breaker bar or ratchet.
- Tool is designed to self-center in the water pump housing, allowing the tangs to fully engage the water pump for removal or installation.

**No. 6060A** – GM water pump socket. Wt., 2 lbs., 10 oz.



6046

Similar to  
Kent-Moore J-43181

### GM Heater Line Quick-Connect Release Tool

- Specially designed for separating quick-connect fittings on heater lines of 1999–2006 Chevy and GMC C/K trucks.
- Tool snaps around the hose and simultaneously depresses the locking tabs to disengage the fitting.

**No. 6046** – GM heater line quick-connect release tool. Wt., 2 oz.



7784

Similar to Ford  
No. 303-249  
(T92P-70010-AH)

### Ford Gear-Position Sensor Adjuster

When you're adjusting the manual-lever position sensor on a Ford automatic transmission, this tool gets the detent setting right the first time.

- For use on E40D, AXOD-E, AX4N, AX4NS, C6, and AOD-E automatic transaxles and transmissions.

**No. 7784** – Ford gear-position sensor adjuster. Wt., 2 oz.



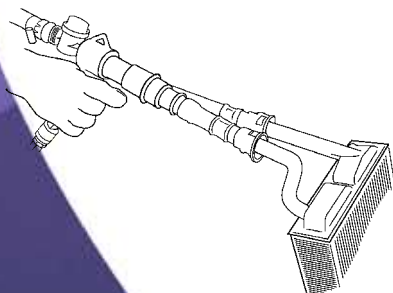
6043

### "Blast-Vac" Multipurpose Cleaning Gun

- Perfectly suited for quick and efficient cooling system flushing. Simply attach it to radiator or heater hoses and you're in business.
- Also usable in washing engines and even shop floors.
- Two simple connections: one to shop air and one to a typical water faucet.
- No. 6043 creates a unique vortex air/water blast for powerful cleaning applications.
- The tool can also be used to vacuum by turning the venturi inside the gun in the opposite direction. Air flow is reversed to create a strong vacuum.

**Note:** While normal water pressure will handle the majority of a cooling system flush, short blasts are sometimes needed to loosen some contaminants from within the system.

**No. 6043** – "Blast-Vac" multipurpose cleaning gun. Wt., 13 oz.





### Fan Clutch Wrench Master Set

Conventional wrenches are just too wide for the job of removing the fan clutch assembly on some engines. Here's the solution: You hold the fan clutch stationary with the clutch holder tool, and turn the fan clutch nut with the special wrench. Most wrenches feature a square drive for attaching a breaker bar for extra torque. Time savers when replacing water pumps, or for any other front engine service in body or repair shops. Holding tools and wrenches are available individually and in sets (see chart on next page).

**No. 7885** – Fan clutch wrench master set – Includes all individual components except Nos. 7925-1, 7925-2, and 6068. Includes molded carrying case. Wt., 16 lbs.



7885

### Individual Holding Tools, Wrenches, and Sets

#### Individual Components

- No. 7204E1** – Holding tool. 2-1/4" (57 mm). Wt., 14 oz.
- No. 7204E2** – Wrench. 1-7/16" (36 mm). Wt., 1 lb., 14 oz.
- No. 7205E1** – Holding tool. 3-1/4" (82 mm). Wt., 1 lb., 8 oz.
- No. 7205E2** – Wrench. 1-7/8" (47 mm). Wt., 3 lbs., 10 oz.
- No. 6068** – Wrench. 1-7/8" (47 mm). Wt., 2 lbs., 8 oz.
- No. 7818** – Holding tool. 2-1/8" (54 mm). Wt., 1 lb., 8 oz.
- No. 7823** – Wrench. 1-9/16" (39 mm). Wt., 1 lb., 11 oz.
- No. 7855** – Holding tool. 2-3/8" (60 mm). Wt., 14 oz.
- No. 7887** – Holding tool. 3" (76 mm). Wt., 1 lb., 8 oz.
- No. 7925-1** – Wrench. 2" (51 mm). Wt., 2 lbs.
- No. 7925-2** – Holding tool. 2-1/4" (57 mm). Wt., 2 lbs., 5 oz.

#### Sets:

- No. 7204E Set** – (7204E1 & 7204E2). Wt., 2 lbs., 8 oz.
- No. 7205E Set** – (7205E1 & 7205E2). Wt., 4 lbs., 13 oz.
- No. 7817 Set** – (7205E2 & 7818). Wt., 4 lbs., 10 oz.
- No. 7854 Set** – (7204E2 & 7855). Wt., 2 lbs., 8 oz.
- No. 7925 Set** – (7925-1 & 7925-2). Wt., 4 lbs., 5 oz.



### Ford Diesel Fan Clutch Wrench

- Designed for use with OTC No. 7205E1 holding tool to remove fan clutch assembly.

Has the same size opening as the OTC No. 7205E2 wrench, but has a special bend in the handle to provide clearance for accessories found on some vehicles.

Application: 1998–2003 Ford vans and pickups with 7.3L direct-injected turbocharged (DIT) diesel engine.

**No. 6068** – Ford diesel fan clutch wrench. Wt., 2 lbs., 2 oz.



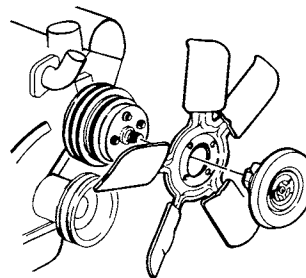
Similar to  
Ford 303-591

6068

# AUTOMOTIVE SPECIAL TOOLS

## Fan Clutch Service

### Individual Holding Tools, Wrenches, and Sets



Year	Make / Model	Engine	U.S. Size	Metric Size	OTC Tool No.	OTC Tool Set	Global Number	Ford Tool No.
1983–1993	Ford / F-Series Truck, E-Series Van	6.9L, 7.3L Diesel	3-1/4"	82 mm	<b>7205E1</b>	<b>7205E</b>	303-213	T83T-6312-A
			1-7/8"	47 mm	<b>7205E2</b>		303-214	T83T-6312-B
1984–1991	Ford / F-Series Truck, E-Series Van	4.9L Inline 6	2-1/4"	57 mm	<b>7204E1</b>	<b>7204E</b>	303-239	T84T-6312-C
			1-7/16"	36 mm	<b>7204E2</b>		303-240	T84T-6312-D
1987–1997	Ford / F-Series Truck, E-Series Van	5.0L, 5.8L, 7.5L V8	2-1/4"	57 mm	<b>7204E1</b>	<b>7204E</b>	303-239	T84T-6312-C
			1-7/16"	36 mm	<b>7204E2</b>		303-240	T84T-6312-D
1992–1996	Ford / F-Series Truck, E-Series Van	4.9L Inline 6	2-1/4"	57 mm	<b>7204E1</b>		303-239	T84T-6312-C
			1-7/16"	39 mm	<b>7823</b>		308-454	T93T-6312-B
1994–1997	Ford / F-Series Truck, E-Series Van	7.3 D.I. Diesel	2-1/8"	54 mm	<b>7818</b>	<b>7817</b>	303-478	T94T-6312-AH
			1-7/8"	47 mm	<b>7205E2</b>		303-454	T83T-6312-B
1983–1989	Ford / Ranger, Bronco II	2.8L, 2.9L V6	2-1/4"	57 mm	<b>7204E1</b>	<b>7204E</b>	303-239	T84T-6312-C
			1-7/16"	36 mm	<b>7204E2</b>		303-240	T84T-6312-D
1990–2004	Ford / Ranger, Explorer, Bronco II	4.0L V6	2-1/4"	57 mm	<b>7204E1</b>	<b>7204E</b>	303-239	T84T-6312-C
			1-7/16"	36 mm	<b>7204E2</b>		303-240	T84T-6312-D
1998–2003	Ford / F-Series Truck, E-Series Van	7.3 DIT Diesel	3-1/4"	82 mm	<b>7205E1</b>		303-213	T83T-6312-A
			1-7/8"	47 mm	<b>6068</b>		303-591	N/A
1988–2004	Dodge / Full Size Pickup, Full Size Van	5.9L Diesel	3"	76 mm	<b>7887</b>			N/A
			1-7/16"	36 mm	<b>7204E2</b>			N/A
1992–2004	Dodge / Dakota, Ram Pickup, Ram Van	3.9L V6, 5.2L, 5.9L V8	3"	76 mm	<b>7887</b>			N/A
		8.0L V10	1-7/16"	36 mm	<b>7204E2</b>			N/A
1993–1998	Jeep / Grand Cherokee	5.2L V8	3"	76 mm	<b>7887</b>			N/A
			1-7/16"	36 mm	<b>7204E2</b>			N/A
1996–2004	GM / Full Size Pickup, Full Size Van, Astro / Safari Vans, S-Truck, Blazer / Jimmy, Yukon / Tahoe	4.3L V6	2-3/8"	60 mm	<b>7855</b>	<b>7854</b>		N/A
		5.0L, 5.7L V8	1-7/16"	36 mm	<b>7204E2</b>			N/A
1994–1999	Navistar / medium-duty trucks and school buses	466	2"	51 mm	<b>7925-1</b>	<b>7925</b>		N/A
			2-1/4"	57 mm	<b>7925-2</b>			N/A



**4652**

#### Adjustable Fan Clutch Holding Tool

- Adjustable jaws fit various water pump pulley bolt patterns.
- Jaws adjust from 1/2" to 8-5/16" opening.
- Jaws lock in place to securely hold water pump bolts.
- Long handle offers leverage for extra torque.

**No. 4652** – Adjustable fan clutch holding tool.  
Wt., 2 lbs., 5 oz.



### Ford Fan Clutch Wrench Set

- Set contains five of the most popular wrenches used to service water pumps and fan clutches, and other components on the front of Ford engines.
- Set contains three holding tools and two turning tools. Use with a 1/2" breaker bar or ratchet.

**Note:** Wrench Nos. 4585-2, 4585-3, and 4585-5 are used to hold the water pump; wrench Nos. 4585-1 and 4585-4 are used to turn the fan clutch.

1. Select the wrench that most closely fits the water pump, and attach it to a 1/2" breaker bar or ratchet.
2. Select the wrench that most closely fits the O.D. of the fan clutch nut.
3. Hold the water pump, and turn the fan clutch nut to remove or install the fan clutch.

**Note:** Some Ford vehicles have left-hand threads on the fan clutch. Refer to each vehicle service manual for the correct thread specifications.

#### Replacement parts:

Part No.	Description
4585-1	– 48 mm (1-7/16") turning wrench.
4585-2	– 83 mm (3-1/4") holding wrench.
4585-3	– 72 mm (2-13/16") & 54 mm (2-1/8") holding wrench.
4585-4	– 40 mm (1-1/2") turning wrench.
4585-5	– 76 mm (3") & 68 mm (2-11/16") holding wrench.

**No. 4585** – Ford fan clutch wrench set. Wt., 8 lbs., 6 oz.



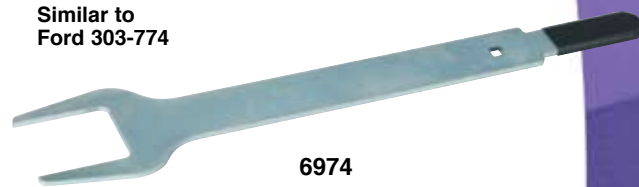
### Ford 6.0L Diesel Fan Clutch Wrench

Applications: 2003–newer Ford F-550 and F-650 Super Duty trucks with the 6.0L diesel engine.

- This is a required tool to tighten or loosen the fan clutch on the water pump.
- Wrench has a 68.45 mm (2-11/16") opening.

**No. 6974** – Ford 6.0L diesel fan clutch wrench. Wt., 3 lbs., 2 oz.

Similar to  
Ford 303-774



# AUTOMOTIVE SPECIAL TOOLS

## Hub Service



6985

Mirror  
Finish

### Mercedes-Benz and BMW Fan Clutch Service Kit

- Mercedes-Benz fan clutch holding wrench holds the water pump pulley to allow release of the fan.
- BMW Fan clutch holding wrench holds the water pump pulley in place while loosening the radiator fan. Works on BMW M10, M20, M30, & other late model vehicles. (Holes at 38 mm & 44.5 mm.)
- Mercedes-Benz fan clutch wrench removes the thermo-viscous radiator fans found on Mercedes-Benz and Ford vehicles. Works on M-B engines: M111, OM604, OM605, and OM606 (C & E Class; 36 mm opening).
- Mercedes-Benz fan clutch wrench is used to remove or install the fan clutch assembly. Slim shaft handle lets you easily work in tight spaces. Works on M-B engines: M103, M104, M119, and M120 (65 mm opening).
- BMW fan clutch wrench is used to remove and install the thermo-viscous fan on BMWs and Fords (32 mm opening).
- Mercedes-Benz Fan Clutch Holding Tool is used to remove / replace thermo-viscous fan coupling with the radiator in place.
- Universal fan belt adjustment wrench services Mercedes-Benz, Nissan Quest, and Mercury Villager radiator fans and pulley belts. It also can be used for loosening the A/C idler pulley tensioner lock nuts for A/C belt adjustment or replacement. Also contains 2.5 mm, 8 mm, and 10 mm Allen keys.

**No. 6985** – Mercedes-Benz and BMW fan clutch service kit. Wt., 10 lbs., 2 oz.



6537

### HubTamer Elite Bearing Service Set

From start to finish, complete front wheel bearing service using just one set of tools. Take off the hub, remove the old bearing and install the new one, and then reinstall the hub. All this is done while the knuckle assembly remains on the car; no shop press or unnecessary alignments are needed.

- Works on virtually all floating and trapped rotors found on domestic and import vehicles.
- Cuts service time 50% when replacing front wheel bearings.
- Pushes on the steering knuckle, **not** the rotor.
- Fits easily behind the rotor, leaving plenty of room for positioning the tool and wrench. One-piece design has no sliding arms to adjust and is impact wrench compatible.

#### The HubTamer Elite gives you these added benefits:

- Puller weldment adapter has been improved with the addition of a beveled edge for use in tight fitting applications!
- Ford adapter for use on Taurus/Sable 1986–1995 and Contour/Mystique 1995 – 2001 vehicles.

**No. 6537** – HubTamer elite bearing service set. Includes all adapters and tools necessary for removing hubs and replacing front wheel bearings on most domestic and import vehicles with floating or trapped rotors. Also includes updated case and application information. Wt., 42 lbs., 13 oz.

If you want to update your current No. 6490 HubTamer, you can purchase the weldment and Ford adapter separately.

**No. 6573** – Weldment with beveled edge. Wt., 9 lbs.

**No. 6536** – Ford adapter for Taurus/Sable and Contour/Mystique. Wt., 1 lb., 3 oz.



6536

### Front Hub Installer and Puller Set

Here are three tools that make front hub service easier. The universal puller removes front hubs from most FWD cars without damaging wheel bearings. The installer is used to pull the axle shaft into the front hub on Ford vehicles.

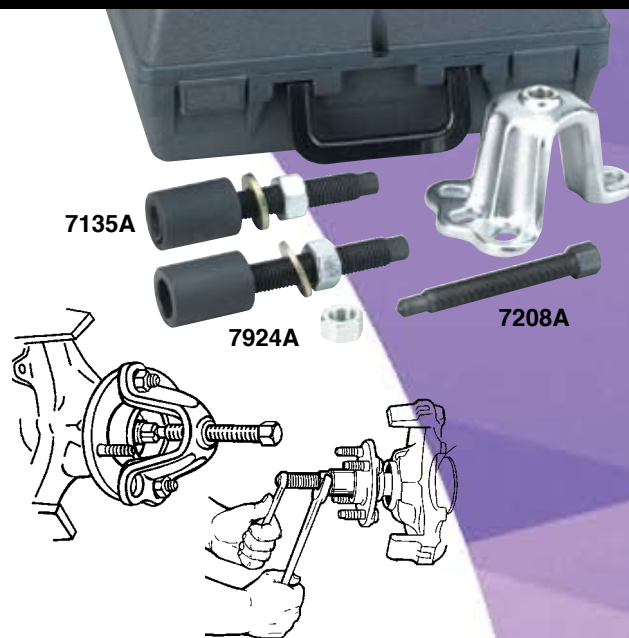
- Spare locknut works with a standard slide hammer puller and the 7208A for rear axle flanges.
- Tools are available separately.

**No. 6298** – Front hub installer and puller set includes the No. 7208A, 7135A, and 7924A in a molded plastic case. Wt., 61 lbs., 8 oz.

**No. 7208A** – Hub remover to push the axle shaft from the front hub. Wt., 2 lbs., 7 oz.

**No. 7135A** – Installer is used to pull the axle shaft into the front hubs on Ford Taurus/Sable vehicles. Fits axle shafts with 20 mm x 1.5 thread. Wt., 1 lb., 7 oz.

**No. 7924A** – Installer is used to pull the axle shaft into the front hub. Fits axle shafts with 22 mm x 1.5 thread on Ford Contour/Mystique, Probe, and Focus. Wt., 1 lb., 5 oz.



### Universal Hub Puller

With its adjustable sliding arms, this puller makes wheel-hub removal quick, easy, and damage free. It has maximum bolt circle of 7-1/2".

- The No. 32937 puller leg is available separately to complete the five necessary for Cadillac and Jeep hub removal.
- Includes striking wrench and puller screw.

**No. 7394** – Universal hub puller. Wt., 9 lbs., 2 oz.

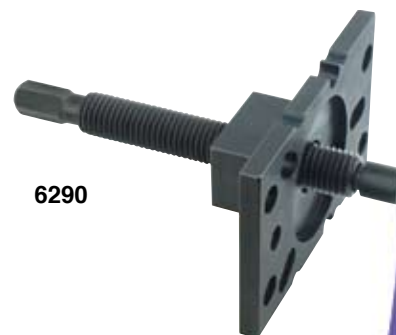
**No. 32937** – Puller leg. Wt., 1 lb.



### Front Hub Puller for 4WD Vehicles

- For removal of the front hub assembly, necessary for wheel bearing or brake rotor service. Provides the mechanical advantage and straight pull not possible with a slide hammer.
- Will not work on trucks with dual rear wheels.
- Services:
  - 1988–2004 GM 1/2-ton, 3/4-ton, and 1-ton trucks, Tahoe, Suburban, and Yukon.
  - 1994–2004 Dodge 1/2-ton, 3/4-ton, and 1-ton Ram trucks.
  - 1997–2004 Ford 1/2-ton trucks and Expeditions.
  - 1985–2001 Jeep Cherokee.

**No. 6290** – Front hub puller for 4WD vehicles. Wt., 7 lbs. 2 oz.



### Front Hub Puller for 4WD Vehicles

This puller is required for removing a front hub assembly in 3/4- and 1-ton 4WD pickups with 8-bolt hubs. It works on 1994 to 2004 Dodge Ram and 1988 to 2004 Ford and GM.

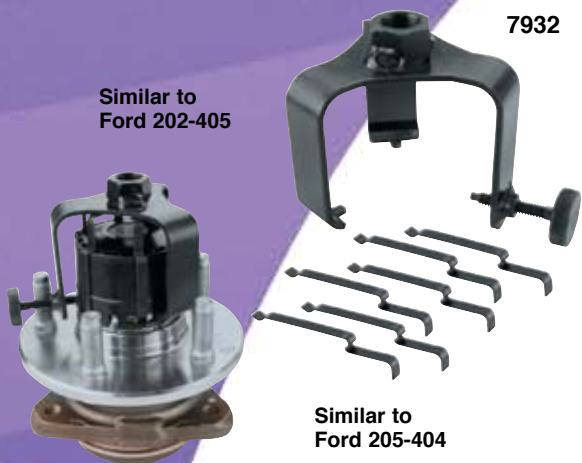
- Fits bolt hole pattern 8 x 6.5".
- Will not work on trucks with dual rear wheels.
- Use with our No. 7703 10-lb. slide hammer for maximum pulling force.

**No. 7901** – Front hub puller for 4WD vehicles. Wt., 5 lbs.



# AUTOMOTIVE SPECIAL TOOLS

## Hub & CV Joint Service



Similar to  
Ford 202-405

Similar to  
Ford 205-404

### Ford Vacuum Front Hub Release Tool Set

Here's the equipment you need to safely remove the plastic vacuum hubs on Ford pickups. Standard tools won't work for the job, but this set has special clips that slip into slots on the hub to release it.

- For use on 1998 to 2000 4WD Ranger with vacuum front hubs.

**No. 7932** – Ford vacuum front hub release tool set. Wt., 10 oz.

**No. 7932-1** – Ford vacuum front hub puller. Wt., 8 oz.

**No. 7932-2** – Ford vacuum front hub removal clip set. Wt., 3 oz.



6695

Similar to  
Ford 303-429

### Ford Axle Shaft Seal Installer

- Works on 1998-newer Ford F-250, F-350, F-450, and F-550 4X4s having the vacuum-operated front axle.
- Correctly installs the seal onto the axle shaft and into the wheel knuckle, preventing front hub vacuum leaks that would cause the 4WD to not engage.

**No. 6695** – Ford axle shaft seal installer. Wt., 10 lbs., 8 oz.



7942A

### Hub Resurfacing Kit

- Fits your power drill to quickly sand rust off lug studs and rotors on the hub assembly. Sanding pads attach with Velcro™.
- For most domestic and import vehicles with either front or rear disc brakes. Includes holder and five sanding discs.
- Run at speeds of 1200 rpm or less for best results. (Do not exceed 1200 rpm.)

**No. 7942A** – Hub resurfacing kit. Wt., 5 oz.

**No. 222548** – 10 pack of replacement sanding pads for No. 7942A. Wt., 1 oz.

**No. J-42450-9** – Replacement holder for No. 7942A. Wt., 4 oz.



Similar to  
Ford 204-D020  
(D93T-3206-A)

7502

### 4WD Front Spindle Puller

This puller enables you to remove the front spindle on light-duty 4WD trucks. It's designed for full-size Ford, GM, International, and Jeep pickups with Dana front axles. Also works on Ford Ranger and Bronco II.

- 5/8" fine thread makes it ideal for use with our No. 1155 slide hammer.
- Fits spindle thread sizes 2"-16, 1-5/8"-16 and 38 mm-1.5.

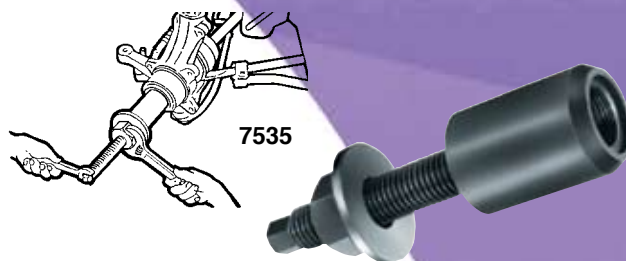
**No. 7502** – 4WD front spindle puller. Wt., 2 lbs., 8 oz.

### Subaru Front Axle Shaft Installer

Here's a real time saver when servicing front axles, CV joints, or wheel bearings on 1980 to current Subaru.

- Fits 24 mm x 1.5 axle shafts.

**No. 7535** – Subaru front axle shaft installer. Wt., 2 lbs., 8 oz.

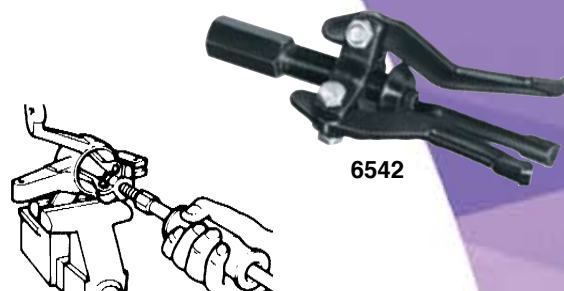


### Bearing Cup Remover

This is an ideal tool for servicing hubs on today's small FWD cars. It's perfect for pulling internal bearing cups, seals, and bushings.

- Jaws spread 15/16" to 3-1/4" and reach to 3-1/2".
- Use with any slide hammer having 5/8"-18 thread (our Nos. 1155 or 1156, or the 927 Push-Puller).

**No. 6542** – Universal bearing cup remover. Wt., 1 lb., 8 oz.



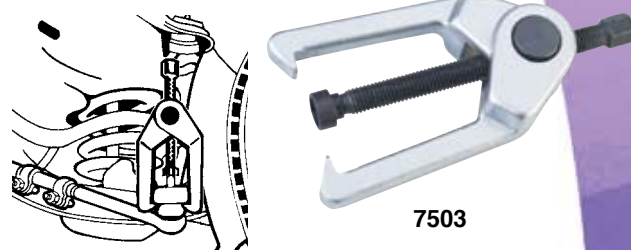
### Outer Tie Rod Remover/Ball Joint Separator

This tool is a must when you're servicing outer tie rods. It works on imported and domestic models, front- or rear-wheel drive, cast or stamped-steel steering knuckles.

- Handles up to 5 tons of knuckle twisting force.
- Jaw reach is 3" with a spread of 3".
- Jaws, once tightened, won't slip on the knuckle.
- Can be used to separate lower ball joints on import FWD vehicles.

**No. 7503** – Outer tie rod remover. Wt., 2 lbs., 12 oz.

Similar to Kent-Moore  
No. J-24319-B



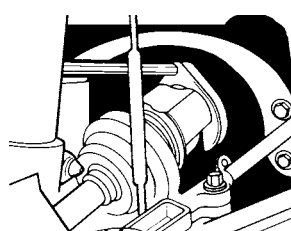
### Inner CV Joint Puller

This is the puller you need for CV work on many Ford cars. Used with a slide hammer, it will remove an axle assembly from the transaxle without causing damage to expensive aluminum transmission cases or other components.

**No. 7507** – CV joint fork only. Use with OTC slide hammer No. 1155, extension No. 7508, or both. Wt., 13 oz.

**No. 7508** – 17-1/2"-long slide hammer extension. Wt., 2 lbs., 7 oz.

**No. 7509** – Complete CV joint tool. Wt., 8 lbs.

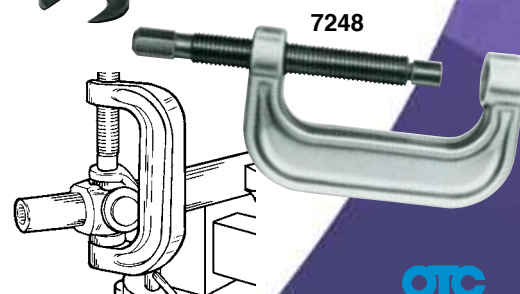


### U-Joint Removing/Installing Tool

This helpful tool uses a forcing-screw press to safely remove and replace automotive universal joints with needle bearings, including GM plastic pin CV U-joints.

**No. 7248** – U-joint removing/installing tool. Wt., 9 lbs., 7 oz.

Similar to Ford  
No. 205-086  
(T74P-4635-C)



# AUTOMOTIVE SPECIAL TOOLS

## CV Joint Service



7995

### Outer CV Joint Remover

Removes the outer CV joint on most front-wheel drive vehicles with a concealed internal circlip.

- Use with OTC No. 1155 or 1156 slide hammer with 5/8-18 UNF thread.

**No. 7995** – Outer CV joint remover. Wt., 2 lbs., 6 oz.



4703

### Outer CV Joint Remover

- Use to remove the outer CV joint on most front-wheel drive vehicles with a concealed internal circlip.
- Use with slide hammer that has 5/8-18 UNF thread.
- Do NOT use this tool to remove front axle assemblies. The inner or outer CV joint may be pulled apart inside the axle boot.

**No 4703** – Outer CV joint remover. Wt., 1 lbs. 10 oz.

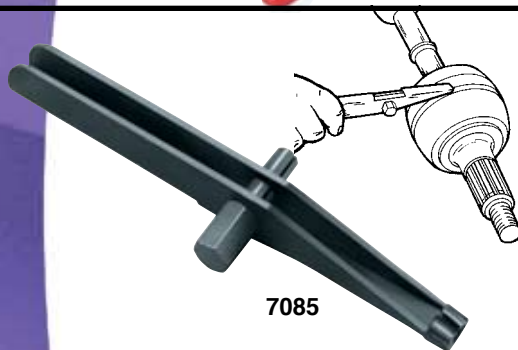


4720

### Boot Clamp Pliers – Chrysler

- Required tool for correct installation of strap-and-buckle style CV boot clamps.
- Works on A.C.I. and G.K.N. boots found on various Chrysler, Plymouth, and Dodge front-wheel drive vehicles.
- Prevents damage to CV boot and clamp during installation.

**No 4720** – Boot clamp pliers – Chrysler. Wt., 7 oz.



7085

### Dust Boot Cap Installer

Works on all vehicles with band-type boot clamps (up to 1/4" wide & .020" thick). The clamp must be installed correctly after servicing to prevent moisture and foreign material from entering the CV joint area. This tool provides exact installation of those clamps with ease.

**No. 7085** – Boot clamp installer. Wt., 8 oz.



4724

### CV Boot Clamp Pliers

- Special tips work on the ear-less type CV boot clamps.
- Grips clamp in many positions to tighten clamp around boot.

**No. 4724** – CV boot clamp pliers. Wt., 12 oz.



### Ear-type CV Boot Clamp Pliers

- For removal of the front hub assembly, necessary for wheel bearing or brake rotor service. Provides the mechanical advantage and straight pull not possible with a slide hammer.
- Services:
  - 1988–2000 GM 1/2-ton, 3/4-ton, and 1-ton trucks, Tahoe, Suburban, and Yukon.
  - 1994–2000 Dodge 1/2-ton, 3/4-ton, and 1-ton Ram trucks.
  - 1997–2000 Ford 1/2-ton trucks and Expeditions.
  - 1985–2001 Jeep Cherokee.

**No. 4723** – Ear-type CV boot clamp pliers. Wt., 13 oz.



4723



### Heavy-Duty CV Boot Clamp Installer

- Designed to clamp the ear-type CV boot clamps used on front-wheel drive vehicles.
- May also be used to crimp the clamps used on fuel and cooling system hoses.
- Ensures even, precise crimping, and eliminates possibility of damage to the clamp, boot, or hose.

**No. 4722** – Heavy-duty CV boot clamp installer. Wt., 1 lb., 7 oz.



4722



### CV Boot Clamp Cutter

- Designed to easily cut the CV boot clamp without damaging the boot.
- Will cut boot clamps up to 10 mm wide and .7 mm thick.
- Handles are spring loaded to the open position to allow easy access to the clamp.

**No. 4721** – CV boot clamp cutter. Wt., 12 oz.



4721



### CV Joint Banding Tool and Cutter

- Use to install and tighten the “band-it” or strap style clamps on CV joint boots, or on power steering rack and pinion steering gear boots.
- Once installed into the tool, tighten the band by turning the handle on the tool; use a socket or wrench on the handle to torque the band to OE specifications.
- When the boot clamp has been tightened to specs, cut the band to the correct length by flipping the lever (at the front of the tool) forward.

**No. 4623** – CV joint banding tool and cutter. Wt., 10 oz.



4623



# AUTOMOTIVE SPECIAL TOOLS

## Rear Axle Service



7792

### Rear Axle Service Set

The tools you need for flange-type rear axle and bearing removal on most late model passenger cars and light trucks. Set includes the No. 7374 rear axle pulling plate and 5 lb. slide hammer. The axle bearing pullers, used with the slide hammer, make short work of removing semi-floating rear axle bearings.

**No. 7792** – Rear axle service set. Wt., 11 lbs., 4 oz.

Consists of:

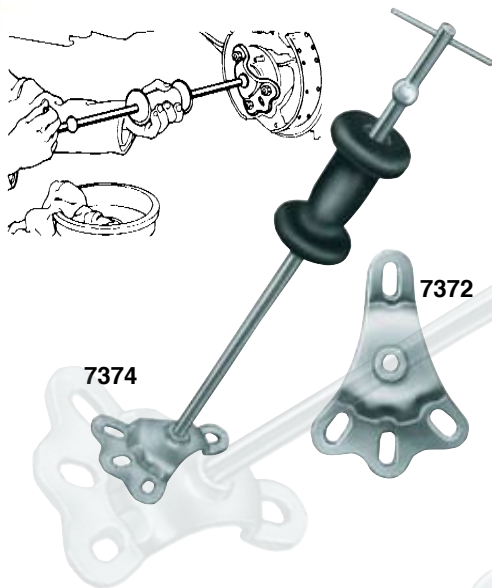
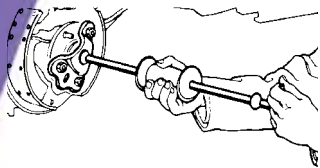
No. 7374 - Rear axle pulling plate with 5 lb. slide hammer.

No. 7495A - Rear axle bearing puller. Fits min. bearing tube I.D. of 1" and max. axle tube I.D. of 1-7/8".

No. 7496A - Rear axle bearing puller. Fits min. bearing tube I.D. of 15/16" and max. axle tube I.D. of 2-3/8".

No. 7497A - Rear axle bearing puller. Fits min. bearing tube I.D. of 1-3/8" and max. axle tube I.D. of 2-7/8".

No. 27315 - Puller hook for use with the 5 lb. slide hammer. Removes oil seals, bearings, etc.



### Slide Hammer Rear Axle Puller

This puller will enable you to remove flange-type rear axles from most late model cars and light trucks. It works on axles having bolts and studs up to 9/16" diameter.

- Fits 4-, 5-, or 6-bolt patterns and stud circles from 4-1/4" to 5-9/16".

**No. 7372** – Rear axle pulling plate. Wt., 1 lb., 7 oz.

**No. 7374** – Rear axle pulling plate with 5-lb. slide hammer assembly. Wt., 8 lbs., 13 oz.



6541

### Pulling Hook

- This slide hammer puller attachment is used to remove seals, bearings, and other press-fit parts.
- Designed to be used with OTC No. 1155 (5 lb.) or No. 1156 (2-1/2 lb.) slide hammer, or other slide hammers having 5/8-18 threads.

**No. 6541** – Pulling hook. Wt., 8 oz.

### Rear Axle Bearing Puller Set

- Set contains slide hammer and popular attachments needed for servicing flange-type, floating rear axle bearings and seals in most late model, rear-wheel drive cars and light trucks; comes in a molded case.
- Rear axle bearing puller fits min. bearing tube I.D. of 1" and max. axle tube I.D. of 1-7/8".
- Rear axle bearing puller, fits min. bearing tube I.D. of 1-5/16" and max. axle tube I.D. of 2-3/8".
- Rear axle bearing puller fits min. tube I.D. of 1-3/8" and max. axle tube I.D. of 2-7/8".

#### Also includes:

Slide hammer tee bar, slide hammer 5 lb. weight, pulling hook, rear axle pulling plate, bearing cup remover

**No. 6540** – Rear axle bearing puller set. Wt., 11 lbs., 7 oz.



### Rear Axle Bearing Service Set

All three pullers have been redesigned to make the removal of semi-floating rear axle bearings easier. The new design allows you to capture the bearing firmly, distributing the pulling force over the entire bearing. This reduces damage and increases the amount of applications. Set includes three pullers to service most domestic cars. Use with OTC Nos. 1155 or 1156 slide hammer with 5/8"-18 UNF thread. Pullers also available separately.

**No. 7494A** – Rear axle bearing puller set. Includes one each Nos. 7495A, 7496A, and 7497A, and a storage case. Wt., 2 lbs., 8 oz.

**No. 7495A** – Rear axle bearing puller. Fits minimum bearing tube I.D. of 1" and maximum axle tube I.D. of 1-7/8". Wt., 12 oz.

**No. 7496A** – Rear axle bearing puller. Fits minimum bearing tube I.D. of 1-5/16" and maximum axle tube I.D. of 2-3/8" including 1988–1997 Chevrolet and GMC 8-1/2", 1/2-ton rear axle bearing. Wt., 12 oz.

**No. 7497A** – Rear axle bearing puller. Fits minimum bearing tube I.D. of 1-3/8" and a maximum axle tube I.D. of 2-7/8". Wt., 12 oz.



## When does your clock start?

**Robinair's new transmission oil exchanger has the vehicle in and out of the service bay in less than 20 minutes!**

**Our unique approach to exchanging fluid... through the transmission oil dipstick!**

- Exchange oil in the pan before it passes through the transmission filter.
- Easy, convenient, and no damage to other engine components.
- It cannot be hooked up backwards.
- No rusty fittings to break loose.



# AUTOMOTIVE SPECIAL TOOLS

## Transmission Fluid Exchanger



92500

1-800-822-5561

**Robinair  
Technical  
Services**

### Transmission Fluid Exchanger

- Top-off feature. Add or subtract in 1/10 qt. increments.
- “Low Fluid Alarm” and “Indicator Light” to alert operator.
- “Drain Waste” feature automatically pumps used fluid from the machine into a waste oil container.
- “Drain Pan” feature drains the pan for easy filter replacement. No mess.

**Three modes of operations: Dipstick only, cooler line, or a combination of the two!**

#### Specifications

Electrical	12V DC
Exchange Accuracy	+/- 1/4 qt.
Controls	Microprocessor with digital keypad and LEDs
Fluid Tanks	32 quarts (24.6 liters) each for both new and used fluids
Hoses	91" black and red (Exchange); 76" white transfer tube (Straw)
Fluid Types	Multiple fluid capability.
Adapter Set	Complete set for most applications. Standard adapters for Ford, GM, Chrysler, European, and Universal (covering most Asian imports).
Pump	Positive displacement gear pump, 2 gallons per minute maximum
Weight	158 lbs. (72 kg)
Dimensions	52"H x 33"W x 20"D (132 cm x 84 cm x 51 cm)
Process Time	Depends on mode
Warranty	1 year parts and labor

- Exchange accuracy approximately +/- 1/4 qt.
- 32-quart supply tank; 34-quart waste tank.
- Unprecedented one-tenth quart flow metering for adding or subtracting fluid from the pan.
- Complete set of cooler line adapters for most foreign and domestic vehicles.
- Works with all types of automatic transmission fluid.
- Integral performance designed hose and tool compartment with drain.

**No. 92500** – Transmission fluid exchanger. Wt., 215 lbs.

**No. 529734** – Replacement nylon tube.



92001

### Automatic Transmission Fluid Diagnostic Pads

Easy, quick way to test automatic transmission fluid to determine when service is necessary. Simply place a few drops of transmission fluid from transmission dipstick onto test pad. Pad will change color indicating condition of transmission fluid. Package contains 100 pads.

**No. 92001** – Automatic transmission fluid diagnostic pads. Wt., 4 oz.

### Transflow Transmission Oil Cooler Flusher

**Fix it right the first time...** designed to measure oil flow capacity within the transmission oil cooler, and also has the capability to flush contaminated oil from the TOC after repairs.

- Only unit in the industry that performs a flow rate test.
- Flush and flow test time is 5 to 8 minutes.
- 32-quart supply tank; 34-quart waste tank.
- Supply and waste hoses each 10' long.
- 10' long, 12V DC power cables with battery lead clips.
- Requires shop air (90 psi, min.) and 12V DC source.

**No. 92000** – Transflow transmission oil cooler flusher. Wt., 173 lbs.



92000

### Portable Torque Converter and Oil Cooler Cleaner

When a newly overhauled transmission fails, it's goodbye to profits and customer goodwill! Often a dirty torque converter or oil cooler is the culprit—sludge and metal particles can jam up valve bodies and clog filter screens, causing malfunctions and costly comebacks. Developed with the cooperation and approval of leading auto manufacturers, this cleaner effectively removes contaminants from converters and also performs the essential job of flushing out transmission oil cooler and cooler lines on most popular makes, 1960–current. A pair of hoses for attachment to the cooler lines is provided. The vehicle's converter is bolted to a universal mounting plate, and the adjustable timer is set for desired cycle period. As the converter is rotated at 20 rpm, cleaning solvent is circulated through it and intermittent injections of compressed air into the solvent provide an effective pulsating, cleaning action.

**No. 60081** – Torque converter/cleaner, complete with cooler flushing hoses, one 200251 adapter, two 10017 cap screws for C-3 transmissions, and three 15677 metric cap screws. Instruction manual. Wt., 230 lbs.

### SPECIFICATIONS

<b>Pump</b>	Fixed displacement-type. Delivers a maximum of 6-1/2 gallons per minute.
<b>*Pump Motor</b>	1/3 hp, 110 volt AC single-phase. Fused for thermal protection.
<b>*Gear Motor</b>	1/15 hp, 110V AC single-phase, d.p.s.p., 20 r.p.m.
<b>Reservoir</b>	Five-gallon capacity. Equipped with easily accessible drain cock.
<b>Filter</b>	Replaceable, full-flow, 5-micron diesel fuel filter.
<b>Timer</b>	30-minute maximum cycle mechanical timer. Can be set in 1 minute increments if desired.
<b>Cabinet</b>	41" high x 28" wide x 19-1/2" deep. Welded steel construction. Has free-wheeling casters.

**\*Note:** Products are available in other voltages. Contact your customer service representative for the part numbers to order.

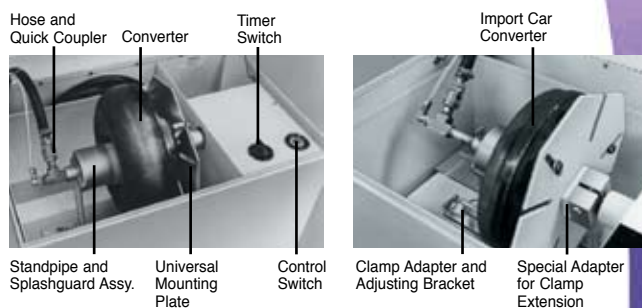
### Accessories

For added versatility, you may order the accessories listed to the left, which adapt the 60081 unit for cleaning a variety of foreign and small domestic automatic transmission converters.

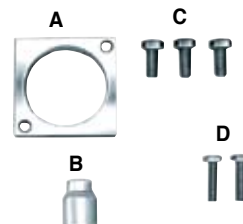


LR 19814

60081



Item	Part No.	Description	Req'd.
A	200251	Spacer adapter	1
B	200231	End cap	1
C	15677	Cap screw	3
D	10017	Cap screw	2



# AUTOMOTIVE SPECIAL TOOLS

## Transmission Service



6604

Similar to  
Ford No. 307-437

### Transmission Fluid Fill Adapter

- This is a required tool to fill or add fluid to the 5R55W automatic transmission used on 2003–newer Ford Explorers.
- Operating Instructions: Remove fill plug from transmission; install No. 6604; fill transmission to correct fluid level; remove No. 6604; and reinstall fill plug in transmission.

**No. 6604** – Transmission fluid fill adapter. Wt., 1 oz.



7118

### Transmission Adapter Kit

Converts your OTC No. 1726 or No. 1735 engine stand into a transmission service stand. Kit replaces the adjustment arms of the stand to hold and position the transmission at workbench height for repair.

- The transmission is held with three sides fully exposed for working convenience.
- Can be rotated a full 360° for complete access to all parts.
- Comes with mounting hardware.

**No. 7118** – Transmission adapter kit. Wt., 10 lbs., 8 oz.



Replaces OTC  
tool No. 7646

7646A

### Ford Clutch Coupling Tool

- Disconnects the hydraulic clutch line from the clutch slave cylinder on the following vehicles with manual transmissions and hydraulic clutches: 1988–2006 F-series trucks, Bronco II, Ranger, Explorer, and 1989–1997 Ford Thunderbird and Mercury Cougar.
- Wedge-shaped design allows easy removal of clutch line without damaging clutch line, coupling, or slave cylinder. No need to pry the coupler apart.

**No. 7646A** – Ford clutch coupling tool. Wt., 4 oz.

No. 7244 – Similar to  
Ford No. 307-123  
(T82L-9500-AH) and  
Kent-Moore No. J-36391



No. 7587 – Similar to  
Ford No. 307-176  
(T86P-77265-AH)

### Quick-Disconnect Tool

Two popular disconnect tools in one set give you the versatility to quickly separate the quick connectors found on everything from radiators to transmission and power steering lines. The quick-disconnect coupler tool, No. 7244, works on late model Ford and GM vehicles without disturbing the quick-connect seals. No. 7587 releases the finger on the transmission-to-radiator oil cooler line quickly, without damaging the hose or connector. Works on 1986 and newer Ford Taurus and Mercury Sables with an AXOD, AOD, or ATX transmission.

- Tools available separately.

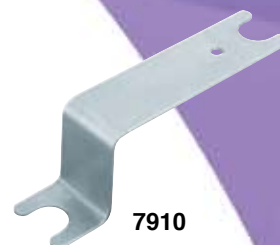
**No. 7244** – Quick-disconnect coupler tool. Wt., 2 oz.

**No. 7587** – Ford oil cooler line disconnect tool. Wt., 5 oz.

### GM Hydraulic Clutch Line Disconnect Tool

This is a versatile tool for disconnecting clutch lines when you're working on clutch assemblies or slave and master cylinders. The bent end, intended for NVG3500 and NV4500 manual transmissions, works on 1996 to 2004 full-size 2WD and 4WD trucks, Chevrolet S-10 Blazer, and pickups. The straight end is for 1993 to '94 Chevrolet Lumina sedan, 1995 to 2000 Chevrolet Monte Carlo, 1993 to '99 Buick Regal, 1998 to 2002 Olds Intrique, 1993 to '97 Olds Cutlass Supreme and Pontiac Grand Prix.

**No. 7910** – GM hydraulic clutch line disconnect tool. Wt., 5 oz.



7910  
Similar to Kent-Moore  
J-42371, J-36221

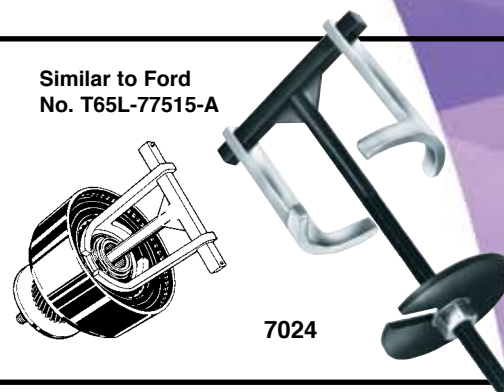
### Automatic Transmission Clutch Spring Compressor

This is a handy, adjustable tool for removing or installing the snap ring on a transmission rear clutch piston. It applies pressure to the clutch drum's retaining washer to compress piston return springs.

- For use on most American cars and light trucks.

**No. 7024** – Automatic transmission clutch spring compressor. Wt., 2 lbs., 13 oz.

Similar to Ford  
No. T65L-77515-A



7024

### Transmission Disconnect Set

This set is used to service automatic transmission cooler lines and manual transmission hydraulic clutch lines.

Set includes:

- No. 7937 – GM transmission oil cooler line disconnect tool.
- No. 7646A – Ford clutch coupling tool.
- No. 7910 – GM hydraulic clutch line disconnect tool.
- No. 7244 – GM & Ford oil cooler line disconnect tool.
- No. 7798 – Ford oil cooler line disconnect tool.
- No. 519378 – Chrysler/Jeep oil cooler line disconnect tool.

**No. 6520** – Transmission disconnect set. Wt., 1 lbs., 15 oz.



6520

### Ford Transmission Cooler Line Disconnect Set

- Snap around cooler line, push into the fitting, fitting releases. The cooler line can then be removed.
- 3/8" disconnect is used on 2003–newer Ford Explorers with the 5R55W transmission.
- 1/2" disconnect is used on 2003–newer Ford Super Duty trucks with the 4R100 transmission.

**No. 6593** – Ford transmission cooler line disconnect set. Wt., 8 oz.

1/2" is similar to  
Ford No. 307-459.

3/8" is similar to  
Ford No. 307-441.



6593

### Transmission Line Disconnects

- Used on 2001 to current Chevrolet Corvette with the 4L60E transmission, and 2003 to current Cadillac CTS with the 5L40E transmission.
- 6 per pack.

**No. 6611** – Transmission line disconnects. Wt., 4 oz.



6611

# AUTOMOTIVE SPECIAL TOOLS

## Transmission Service



Similar to  
Miller No. 8218

6047

### Dodge Transmission Cooler Line Disconnect Tool

- Designed for removing the cooler line from the radiator to transmission on 1995 and newer Dodge pickups with automatic transmissions.
- Tool encloses the quick connect fittings and releases the locking fingers on the line. It works on both 3/8" and 1/2" lines.

**No. 6047** – Dodge transmission cooler line disconnect tool. Wt., 4 oz.



7937

### GM Transmission Oil Cooler Line Disconnect Tool

- Specially designed to work in tight places. So simple to operate, you can do it with just one hand.
- After insertion into the quick-connect fitting on 1/2" dia. lines, a quarter turn of the tool quickly and easily releases the fitting on the transmission end of the transmission-to-radiator oil cooler line.
- Works on 2WD and 4WD pickups and vans with electronic shift overdrive automatic transmissions: 1991–newer 4L80E transmissions, and 1993–newer 4L60E transmissions.

**No. 7937** – GM transmission oil cooler line disconnect tool. Wt., 2 oz.



4528

### Clutch Alignment Tool Set (17 piece)

- Essential for clutch installation on virtually all cars and light-duty trucks. Aligns clutch plate by using tapered cones and pilot adapters.
- Includes seven fractional pilot adapters, 1", 13/16", 25/32", 3/4", 11/16", 5/8", 19/32" one clutch disc centering adapter, and one alignment shaft.
- Includes five metric pilot adapters, 19mm, 17mm, 16mm, 14mm, 12mm, two clutch disc centering adapters, and one alignment shaft.
- Housed in a blow-molded storage case.

**No. 4528** – Clutch alignment tool set (17 piece). Wt., 4 lbs., 3 oz.



### Differential Bearing Pullers

For removing differential side carrier bearings on a wide variety of passenger cars and light trucks. Use with step plate adapters Nos. 8060, 8061, 8063, and 8064. (Step plate adapters are not included with 1028 or 1031.)

**No. 1028** – Puller with 3-1/2" maximum reach, 1-1/4" to 4-1/2" spread. Primarily for servicing Ford products. Wt., 1 lb., 13 oz.

**No. 1031** – Puller with 3-1/4" maximum reach, 6" maximum spread. For servicing most General Motors, American Motors, and Chrysler products. Wt., 2 lbs.



1028

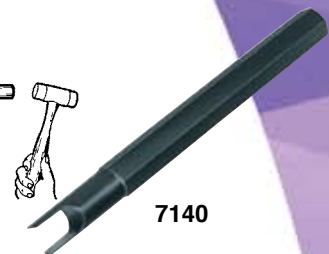
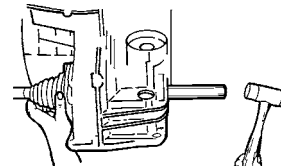


1031

### Escort/Lynx Half-Shaft Remover/ Differential Rotator

This tool is required when you're removing the left-hand half-shaft from Escort/Lynx transaxles. It ensures removal and enables you to turn the differential.

**No. 7140** – Escort/Lynx half-shaft remover/differential rotator. Wt., 1 lb., 13 oz.

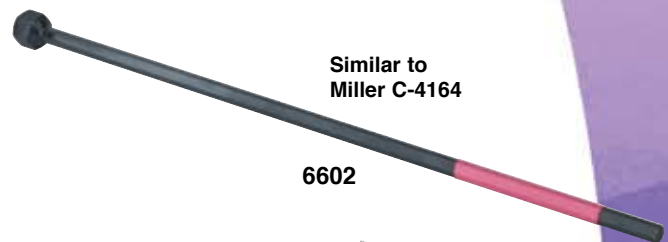


7140

### Differential Bearing Preload Wrench

- Similar to Miller C-4164.
- Use to adjust differential bearing free play on Chrysler/Dodge vehicles with 7-1/4", 8-1/4", 8-3/4", and 9-1/4" rear axles.
- Tool fits inside axle tube to access the threaded adjusters.

**No. 6602** – Differential bearing preload wrench. Wt., 2 lbs., 14 oz.



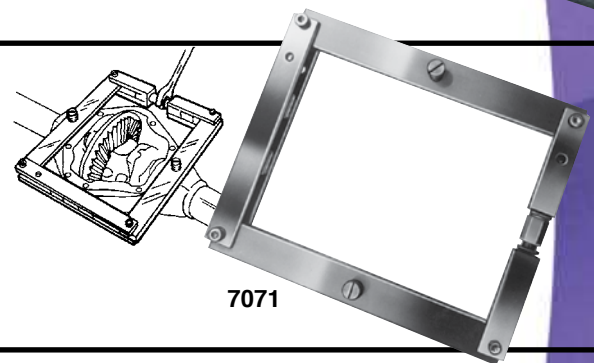
6602

Similar to  
Miller C-4164

### Differential Housing Spreader

Here's a tool that eases the job of removing or installing differential ring-gear assemblies on Dana axle models 30 through 70. It's a heavy-duty device using mechanical screw power to spread the housing. It helps prevent the component damage that often results from the use of homemade devices.

**No. 7071** – Differential housing spreader. Wt., 34 lbs.



7071

### Toyota A/C Disconnect Tool

- Used to release the plastic quick-connect fittings on the high- and low-pressure air conditioning lines at the evaporator.
- Services 1998–newer Toyota Corolla, 1998–newer Geo Prizm, 1998-1/2–newer Toyota Land Cruiser and Lexus LX470, 1999–newer Toyota Avalon, Camry, Solara, and Sienna mini vans.
- Easy to use: Plastic fitting on A/C line is rotated to show access to the two release holes in the fitting; tool is inserted into release holes, and pushed to release the fitting.

**No. 6073** – Toyota A/C disconnect tool. Wt., 4 oz.



6073

# AUTOMOTIVE SPECIAL TOOLS

## Fuel & A/C Service

518898 – Similar to  
Ford No. 412-027  
(T81P-19623-G2)



518897 – Similar to  
Ford No. 412-038  
(T83P-19623-C)

518900 – Similar to  
Ford No. 412-026  
(T81P-19623-G1)

518901 – Similar to  
Ford No. 412-040  
(T85L-19623-A)

6538 – Similar to Ford No.  
412-039 (T84L-19623-B)

### A/C Spring-Lock Coupling Tool Set

These tools will quickly separate spring-lock refrigerant pressure lines on the air conditioning systems of 1981 to 2002 Ford vehicles, and 1994 to 2002 Chrysler and Jeep vehicles.

- Spring-loaded in the closed position to deflect spray that occurs when a line is disconnected.
- Tools available separately.

**No. 6538** – Set of four A/C spring-lock coupling tools:  
Wt., 3 oz.

**No. 518901** – 3/4" (white). Wt., 2 oz.

**No. 518900** – 3/8" (red). Wt., 2 oz.

**No. 518898** – 1/2" (blue). Wt., 2 oz.

**No. 518897** – 5/8" (black). Wt., 2 oz.



### A/C and Fuel Line Disconnect Set

- Used to remove A/C and fuel line quick-disconnect fittings from hard-to-reach areas.
- Six sizes (5/16", 3/8", 1/2", 5/8", 3/4", and 7/8") available to work on many import and domestic vehicles.

**No. 4495** – A/C and fuel line disconnect set.  
Wt., 5 oz.



### Fuel and Air Conditioning Line Release Tool

- This spring-lock coupling release tool easily separates fittings on fuel and air conditioning lines.
- Tool sizes are 3/4", 5/8", 1/2", and 3/8".

**No. 4494** – Fuel and air conditioning line release tool.  
Wt., 5 oz.

### Full-Coverage Disconnect Tool Set

If you're working on Chrysler, Ford, or General Motors vehicles, this set will make your job easier. The tools are designed for heater hoses, transmission oil coolers, air conditioning and fuel lines. They're approved by vehicle manufacturers and will not damage the fittings being disconnected. Tool Nos. 518092, 518896, 518897, 518898, 518899, 518900, and 518901 are spring-loaded in the closed position to deflect any spray that occurs when lines are disconnected.



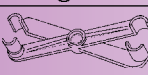
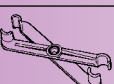

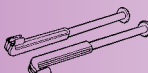
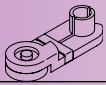
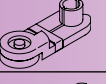
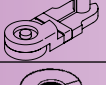





- Comes in blow-molded case.





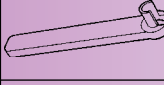


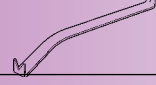
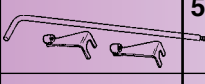

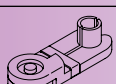
**No. 6508** – Disconnect tool set. Wt., 4 lbs., 8 oz.



6508

#### Contents of set:

	Tool	Description
	<b>440384</b>	GM hydraulic clutch line disconnect tool.
	<b>440486</b>	GM transmission oil cooler line.
	<b>511410</b>	Fuel line disconnect tool.
	<b>511413</b>	Fuel line disconnect tool.
	<b>518902</b>	Heater hose disconnect tool.
	<b>519158</b>	Fuel line disconnect tool set.
	<b>518582</b>	Fuel line disconnect tool.
	<b>518583</b>	Fuel line disconnect tool.
	<b>518584</b>	Fuel line disconnect tool.
	<b>518896</b>	Fuel line disconnect tool. (Yellow, 3/8" )
	<b>518897</b>	A/C spring lock coupling tool. (Black, 5/8" )
	<b>518898</b>	A/C spring lock coupling tool. (Blue, 1/2" )
	<b>518899</b>	Fuel line disconnect tool. (Green, 1/2" )
	<b>518900</b>	A/C spring lock coupling tool. (Red, 3/8" )

	Tool	Description
	<b>518901</b>	A/C spring lock coupling tool. (White, 3/4" )
	<b>519067</b>	Fuel line disconnect tool.
	<b>519068</b>	Fuel line disconnect tool.
	<b>519151</b>	Quick disconnect tool.
	<b>519152</b>	Oil cooler line disconnect tool.
	<b>519153</b>	Clutch coupling tool
	<b>519154</b>	Fuel line coupling tool.
	<b>519155</b>	Chrysler fuel line disconnect tool.
	<b>519156</b>	Ford heater hose disconnect tool.
	<b>519157</b>	GM heater line quick connect separator.
	<b>519159</b>	Oil cooler line disconnect tool.

# AUTOMOTIVE SPECIAL TOOLS

## Locknut Sockets

### Locknut Sockets

**No. 7090A** – Services 1978–84 Ford F-series H.D. 3/4- and 1-ton 4WD trucks; 1973–81 GM 3/4- and 1-ton 4WD trucks. 1/2" sq. drive. Wt., 1 lb., 11 oz.

**No. 7157** – Services 1993–newer Ford Ranger Bronco II and Explorer with manual hubs; 1995–96 Ford F-series 1/2-ton truck and full-size Bronco with manual hubs; 1995–newer Ford F-series 3/4-ton and 1-ton trucks with manual hubs; 1959–85 Ford F-series 1/2- and 3/4-ton trucks and full-size Bronco; 1960–90 GM 1/2-ton truck and full-size Blazer/Jimmy; 1969–89 Dodge 1/2-ton truck with manual hubs; 1969–72 International 1/2-ton truck. 1/2" sq. drive. Wt., 1 lb., 8 oz.

**No. 7158** – Services 1985-1/2–95 Ford F-series H.D. 3/4- and 1-ton Dana 50 IFS of Dana 60 front axle; 1982–90 GM H.D. 3/4- and 1-ton trucks, 1994–newer Dodge Dana 60 with Cummins. 1/2" sq. drive. Wt., 1 lb., 13 oz.

**No. 7795** – Services 1995–1996 Ford F-series 1/2-ton trucks and full-size Bronco with automatic hubs. 1/2" sq. drive. Wt., 1 lb., 11 oz.

**No. 7796** – Services 1995–1998 Ford F-series 3/4- and 1-ton trucks with automatic hubs. 1/2" sq. drive. Wt., 2 lbs., 2 oz.

**No. 7270A** – Services 1984–92 Ford Ranger and Bronco II with manual hubs; 1986–95 Ford F-series 1/2-ton truck; full-size Bronco with Dana 44 front axle; 1990–93 Dodge trucks with Dana 44 automatic hubs. 1/2" sq. drive. Wt., 1 lb., 8 oz.

**No. 7269** – Services 1985–newer Ford F-series 3/4- and 1-ton trucks with Dana 80 rear axle. 1/2" sq. drive. Wt., 3 lbs.

**No. 7698** – Services 1988–1995 Isuzu Trooper, Rodeo, Amigo, and pickup; 1989–1995 Honda Passport; Jeep J20 pickups with Dana 60 axle. 1/2" sq. drive. Wt., 1 lb., 5 oz.

**No. 7913** – Used to remove and install locknut on 1997–2000 Suzuki Samurai and Geo Tracker front hubs. Wt., 2 lbs., 2 oz.

**No. 7612** – 54 mm hex socket fits front wheel bearing adjusting nut of Toyota FJ, LN, and RN. Has 1/2" square drive end, permitting use of a torque wrench. 1/2" sq. drive. Wt., 1 lb., 15 oz.

**No. 7941** – Specially designed to fit 4WD lock-out hubs on Toyota's 1995–2002 Tacoma, and 1996–2002 T100 and 4Runner. Similar to Toyota No. 09318-12010-01. Wt., 8 oz.

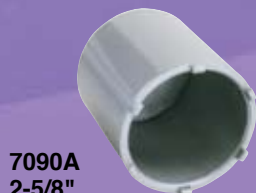
**No. 6006** – Services 1994–newer Dodge 1/2-ton 4x4 pickups with Dana 44 front axle and Dana 60 axle with vacuum disconnect front axle. Wt., 1 lb., 10 oz.

**No. 1902** – Services 1984–92 Ford Ranger and Bronco II with automatic hubs; 1993–1997 Ford Ranger, Bronco II, and Explorer with automatic hubs. 1/2" sq. drive. Wt., 1 lb., 14 oz.

**No. 1928** – Services 1990–93 Dodge truck with Dana 60 manual hubs. 3/4" sq. drive. Wt., 2 lbs., 2 oz.

**No. 1936** – Services 1990–newer Ford Ranger, Bronco II, and Explorer with automatic hubs. Wt., 1 lb., 15 oz.

**No. 6601** – Services 2003–newer Ford F-250, F-350, and F-450 Super Duty trucks with 10-1/2 inch rear axle. Wt., 2 lb., 15 oz.



**7090A**  
2-5/8"  
Similar to Ford  
No. 205-D001  
(D78T-1197-A)



**7157**  
2-1/4"  
Similar to Ford  
No. 205-192  
(T83T-1197-B)



**7158**  
2-1/2"  
Similar to Ford  
No. 205-D065 (D85T-1197-A)



**7795**  
2-1/2"  
Similar to Ford  
No. 205-348  
(T95T-1197-A)



**7796**  
2-3/4"  
Similar to Ford  
No. 205-349  
(T95T-1197-B)



**7270A**  
2-3/8"  
Similar to Ford  
No. 205-244  
(T86T-1197-AR)



**7269**  
2-3/4"  
Similar to Ford  
No. 205-282  
(T88T-4252-A)  
Kent Moore  
No. J-42855



**7698**  
2-1/4"



**6601**  
Similar to Ford  
No. 205-448

### FW Bearing Locknut Sockets Application Chart

Vehicle	OTC No.	Ford No.	Global No.
1984–92 Ford Ranger & Bronco II with manual hubs with automatic hubs	<b>7270A</b> <b>1902</b>	T86T-1197-AR T70T-4252-B	205-244 205-039
1993–95 Ford Ranger, Bronco II, and Explorer with manual hubs with automatic hubs	<b>7157</b> <b>1902</b>	T83T-1197-B T70T-4252-B	205-192 205-039
1990–95 Ford Ranger, Bronco II, and Explorer with automatic hubs	<b>1936</b>	N/A	N/A
1995–96 Ford F-series 1/2-ton trucks and full-size Bronco with manual hubs with automatic hubs	<b>7157</b> <b>7795</b>	T83T-1197-B T95T-1197-A	205-192 205-348
1995–98 Ford F-series 3/4- and 1-ton trucks with manual hubs with automatic hubs	<b>7157</b> <b>7796</b>	T83T-1197-B T95T-1197-B	205-192 205-349
1978–84 Ford F-series H.D. 3/4- and 1-ton 4WD trucks	<b>7090A</b>	D78T-1197-A	205-D001
1985 1/2–95 Ford F-series H.D. 3/4- and 1-ton Dana 50 IFS or Dana 60 front axle	<b>7158</b>	D85T-1197-A	205-D065
1985–95 Ford F-series 1/2-ton truck and full-size Bronco with Dana 28 front axle	<b>7158</b>	D85T-1197-A	205-D065
1959–85 Ford F-series 1/2- and 3/4-ton truck and full-size Bronco	<b>7157</b>	T83T-1197-B	205-192
1986–95 Ford F-series 1/2-ton truck and full-size Bronco with Dana 44 front axle	<b>7270A</b>	T86T-1197-AR	205-244
1985 and 2002 Ford F-series 3/4- and 1-ton truck with Dana 80 rear axle	<b>7269</b>	T85T-4252-AH T88T-4252-A	205-230 205-282
2003–newer Ford F-250, 350, 450 Super Duty w/10-1/2" rear axle	<b>6601</b>	N/A	205-448
1973–81 GM 3/4- and 1-ton 4WD trucks	<b>7090A</b>	N/A	N/A
1960–90 GM 1/2-ton truck and full-size Blazer/Jimmy	<b>7157</b>	N/A	N/A
1982–90 GM H.D. 3/4- and 1-ton trucks	<b>7158</b>	N/A	N/A
1989–96 Tracker	<b>6283</b>	N/A	N/A
1969–72 International 1/2-ton trucks	<b>7157</b>	N/A	N/A
1969–89 Dodge 1/2-ton trucks with manual hubs	<b>7157</b>	N/A	N/A
1990–93 Dodge trucks with Dana 44 automatic hubs	<b>7270A</b>	N/A	N/A
1990–93 Dodge trucks with Dana 60 manual hubs	<b>1928</b>	N/A	N/A
1988–95 Isuzu Trooper, Rodeo, Amigo, and pickup; 1989–95 Honda Passport; and Jeep J20 pickups with Dana 60 axle	<b>7698</b>	N/A	N/A
1982–97 Toyota trucks, models FJ, LN, RN, with 54 mm 6 pt. nuts	<b>7612</b>	N/A	N/A
1995–2002 4WD Toyota Tacoma and 1996–2002 4WD Toyota T100 and 4Runner, all with lockout hubs	<b>7941</b>	N/A	N/A
1997–2000 4WD Geo Tracker and Suzuki Samurai	<b>7913</b>	N/A	N/A



**7913**  
Similar to Kent-Moore No. J-42119



**6601**  
2-3/4" O.D.  
Similar to Ford No. 205-448



**7612**  
2-1/8"  
54 mm



**7941**  
2.366 center to center on pins



**6006**  
1-11/16"  
43 mm



**6064**  
1.972 center to center on pins



**1902**  
2-3/8"



**1928**  
2-9/16"



**1936**  
2-3/8"



**6283**  
2-29/64"

# AUTOMOTIVE SPECIAL TOOLS

## Locknut Sockets



4542

### 7-Piece Wheel Bearing Locknut Socket Set

- For use with 1/2" ratchet or breaker bar.

Set contains:

No. 519097-7 – 55 mm hex locknut socket designed for use on front wheel adjusting nuts found on Toyota models FJ, LN, and RN.

No. 519097-1 – 2-3/8" hex locknut socket works on 1984–92 Ford Rangers and Bronco IIs with automatic locking hubs. Similar to Ford No. 205-040 (T70T-4252-B).

No. 519097-3 – 2-1/2" hex locknut socket fits the hex nut found on rear axles and various front axle applications on light-duty trucks.

No. 519097-5 – 2-1/2" rounded hex locknut socket works on 1995–96 Ford F-150 trucks and full-sized Broncos with automatic locking hubs. Similar to Ford No. 205-348 (T95T-1197-A).

No. 519097-4 – 2-3/4" rounded hex locknut socket works on 3/4-ton and 1-ton Ford F-250 and F-350 trucks with automatic locking hubs. Similar to Ford No. 205-349 (T95T-1197-B).

No. 519097-2 – 2-9/16" rounded hex locknut socket works on 1990–93 Dodge trucks with Dana 60 manual hubs.

No. 519097-6 – 2-3/8" rounded hex locknut socket works on 1990–newer Ford Rangers, Bronco IIs, and Explorers with automatic locking hubs.

**No. 4542** – Wheel bearing locknut socket set (7 piece).  
Wt., 11 lbs., 7 oz.



4547

### Axle Nut Socket Set – FWD (7 piece)

- Extra long, 1/2" drive chrome molybdenum sockets for heavy-duty use in removing and installing axle nuts.
- Use with a ratchet, breaker bar, or torque wrench.
- Contained in a blow-molded plastic storage case.

Contents of set:

No. 4547-29 – 29 mm socket services various late model GM, Ford, and Asian imports.

No. 4547-30 – 30 mm socket services GM body styles A, J, and N, plus Asian imports.

No. 4547-32 – 32 mm socket services late model Honda and Chrysler vehicles.

No. 4547-34 – 34 mm socket services many GM mid-size vehicles.

No. 4547-35 – 35 mm socket services many GM vehicles.

No. 4547-36 – 36 mm socket services many GM, Ford, and Chrysler full-size vehicles.

No. 4547-38 – 38 mm socket services various full-size vehicles including SUVs.

**No. 4547** – Axle nut socket set (7 piece).  
Wt., 10 lbs., 6 oz.



### Locknut Socket Set – 4WD (6 piece)

- Chrome vanadium steel sockets cover most SUV and light truck applications.
- Sockets have 1/2" square drive, allowing use of a torque wrench, ratchet, or breaker bar.

Contents of set:

No. 4543-1 – Toyota 4-lug locknut socket. Services high-torque locknuts on Toyota 4WD vehicles having free-wheel (lock out) hubs: 1995–newer Tacoma; 1996–newer T100 and 4Runner.

No. 4543-2 – Ford 4-lug locknut socket for high-shear rotating nuts on 1985–newer F-250 and F-350 truck rear axles, and Dana 80 rear axles of Ford Super Duty trucks.

No. 4543-3 – 4-lug socket for removing and installing 4-slot front axle locknuts on 1986–newer F-Series 1/2-ton trucks, full-size Bronco with Dana 44 axle, 1984–92 Ford Ranger, and Bronco II with manual hubs. Also, Dodge trucks using Dana 44 axle with automatic hubs.

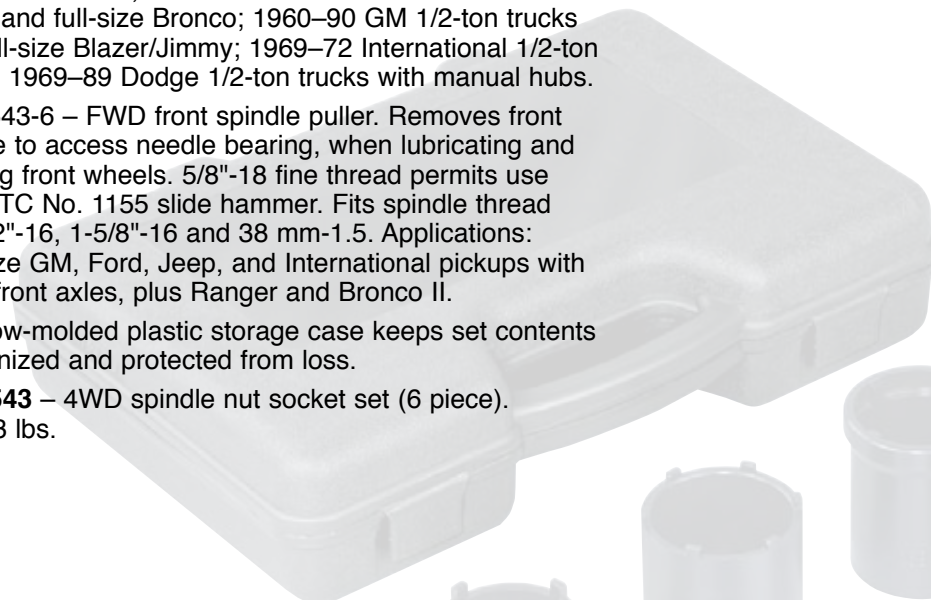
No. 4543-4 – 6-lug socket for removing and installing 4-slot front axle locknuts on 1978–84 Ford F-Series 4WD heavy-duty 3/4- and 1-ton trucks; 1973–81 GM 4WD 3/4- and 1-ton trucks.

No. 4543-5 – 4-lug socket for removing and installing 4-slot front axle locknuts on 1993–newer Ford Ranger, Bronco II, and Explorer with manual hubs; 1995–newer F-Series 1/2-, 3/4-, and 1-ton trucks and full-size Bronco with manual hubs; 1959–85 F-Series 1/2- and 3/4-ton trucks and full-size Bronco; 1960–90 GM 1/2-ton trucks and full-size Blazer/Jimmy; 1969–72 International 1/2-ton trucks; 1969–89 Dodge 1/2-ton trucks with manual hubs.

No. 4543-6 – FWD front spindle puller. Removes front spindle to access needle bearing, when lubricating and aligning front wheels. 5/8"-18 fine thread permits use with OTC No. 1155 slide hammer. Fits spindle thread sizes 2"-16, 1-5/8"-16 and 38 mm-1.5. Applications: Full-size GM, Ford, Jeep, and International pickups with Dana front axles, plus Ranger and Bronco II.

- A blow-molded plastic storage case keeps set contents organized and protected from loss.

**No. 4543** – 4WD spindle nut socket set (6 piece).  
Wt., 13 lbs.



4543

# AUTOMOTIVE SPECIAL TOOLS

## Locknut Sockets & Brake Service



6010



6612, 6902, 6921



6795, 6796, 6928, 6936

### 1/2" Drive Locknut Socket Set

- These are not light-hearted sockets; they feature a 1/2" square drive, and can be used with an extension and torque wrench for accurate tightening.
- For use on the rounded and standard hex nuts found on the most popular light-duty trucks on the road.
- Unlike the competition, these sockets are backed by the famous OTC Lifetime Marathon Warranty® against defects in materials and workmanship.

**No. 6010** – Locknut socket set. Includes one each: Nos. 6612, 6795, 6796, 6902, 6921, 6928, 6936. Wt., 12 lbs.

#### Set includes one each of the following:

**No. 6612** – 54 mm hex locknut socket designed for use on front wheel adjusting nuts found on Toyota FJ, LN, and RN models. Wt., 1 lb., 8 oz.

**No. 6902** – 2-3/8" hex locknut socket works on 1984–92 Ford Rangers and Bronco IIs with automatic locking hubs. (Ford No. T70T-4252-B and 205-040). Wt., 1 lb., 8 oz.

**No. 6921** – 2-1/2" hex locknut socket fits hex nut found on rear axles and various front axle applications on light-duty trucks. Wt., 1 lb., 8 oz.

**No. 6795** – 2-1/2" rounded hex locknut socket. Works on 1995–96 Ford F-150 trucks and full-sized Broncos with automatic locking hubs. (Ford No. T95T-1197-A and 205-348). Wt., 1 lb., 8 oz.

**No. 6796** – 2-3/4" rounded hex locknut socket. Works on 3/4- and 1-ton Ford F-250 and F-350 trucks with automatic locking hubs. (Ford No. T95T-1197-B and 205-349). Wt., 1 lb., 8 oz.

**No. 6928** – 2-9/16" rounded hex locknut socket. Works on 1990–93 Dodge trucks with Dana 60 manual hubs. Wt., 1 lb., 8 oz.

**No. 6936** – 2-3/8" rounded hex locknut socket. Works on 1990–newer Ford Rangers, Bronco IIs, and Explorers with automatic locking hubs. Wt., 1 lb., 8 oz.



7488A

### Brake Pressure Test Kit

Kit contains a complete set of fittings and gauges for pressure testing ABS and conventional brake systems on Chrysler, Ford, GM, Jeep, and import vehicles.

- Includes an organizer case

**No. 7488A** – Brake pressure test kit. Includes two 0–3,000 psi gauges, 16 adapter fittings, two Bosch ABS adapters, one Teves/Delco Powermaster III adapter, one Ford (Teves) adapter, one 90° elbow fitting, one 45° elbow fitting, bleeder, and instructions. Wt., 7 lbs., 10 oz.



### Brake Fluid Safety Meter

#### Check condition of brake fluid in less than a minute!

Water can enter a brake system through microscopic holes anywhere in the system. Once inside, it can cause corrosion in system components...it can vaporize under the high heat conditions of hard braking situations...it can cause dangerous degradation of your customer's ability to stop safely! The No. 3890 can diagnose a brake system in under a minute. It actually boils a small sample of brake fluid in the reservoir to test for water contamination.

#### FEATURES:

- Powered by the vehicle battery; won't operate if connected to the wrong polarity.
- On-screen prompts lead you quickly through testing.
- You'll find the minimum boiling (vaporizing) point along with minimum recommended levels for various types of brake fluid.
- Works on DOT 3, DOT 4, and DOT 5.1 fluids.
- No consumable test strips; buy this tool and test every vehicle that comes into your shop.

**No. 3890** – Brake fluid safety meter. Wt., 2 lbs., 8 oz.



3890

**Specifications:**  
 Accuracy at 212°–356°F...1% typical, 3% max.  
 Accuracy above 356°F...3% typical, 5% max.  
 Testing Time...15–60 seconds  
 Operating Temp Range...32°–122°F

### Steering Wheel Holder & Pedal Depressor Kit

- This kit has two applications: 1) holds steering wheel in position for alignment adjustments, and 2) depresses brake pedal for various brake checks, including brake lamp operation.
- Rod easily slides in actuator for fast, easy installation of tool on brake pedal or steering wheel. Simply hand squeeze the actuator to accomplish fine adjustments.
- Kit includes: actuator assembly; extension rod for actuator (use when depressing brake pedal); hook assembly (hooks on steering wheel when depressing brake pedal or holding steering wheel); and flat pad (rests on front seal when holding steering wheel).

**No. 4546** – Steering wheel holder and pedal depressor kit. Wt., 5 lbs., 2 oz.

No. 4546-1 – Handle and Rod. Wt., 2 lbs.

No. 4546-2 – Steering Wheel and Pedal Holder. Wt., 2 lbs., 7 oz.



4546

### One-Man Brake Bleeder Hose

- Removes air from brake system, one wheel at a time, and eliminates the need for an assistant.
- Hose easily attaches to bleeder screw, which holds hose in place and prevents leaking.
- Check valve on end of hose prevents air from entering brake system when pumping brake pedal.

**No. 4599** – One-man brake bleeder hose. Wt., 5 oz.



4599

# AUTOMOTIVE SPECIAL TOOLS

## Brake Service

### Fluid Evacuation / Brake Bleeding Tools

- Use to bleed brake systems and remove a variety of fluid from vehicles, such as antifreeze, oil, transmission fluid, gear lube, etc.
- Quick connect locking hose adapters and ball-style on/off valve on hose prevent fluid leakage.
- Equipped with a relief valve to prevent over-pressurizing the tank.

**No. 8100** – Operates by shop air or a hand pump; shipped complete with a brake bleeding hose, fluid evacuation hose, and two suction hoses (6 mm and 7 mm); 10-liter capacity tank. Wt., 10 lbs.

**No. 8101** – Operates with shop air; shipped with a brake bleeding hose and fluid evacuation hose; 6-liter capacity tank. Wt., 10 lbs., 13 oz.



### ABS Brake Proportioning Valve Depressor

The proportioning valve depressor works on various GM utility vehicles, vans, and pickups fitted with Kelsey Hayes anti-lock brake systems. It also works on rear-wheel anti-lock brakes.

- Two depressors work best for four-wheel anti-lock systems.

**No. 7853** – ABS brake proportioning valve depressor. Wt., 4 oz



Similar to Kent-Moore J-35856

### Disc Park Brake Caliper Tool Kit

This tool set is a must when you're installing brake pads on vehicles with 4-wheel disc brakes. It works on most GM vehicles, most Ford vehicles, and imported vehicles.

- Includes tool to retract the piston on a parking brake actuator.

**No. 7317A** – Disc park brake caliper tool kit. Wt., 4 lbs., 5 oz.

Kit includes one each of the following:

No. 214963 – Plate.

No. 214964 – 3/8" extension.

No. 308649 – Forcing screw.

No. 308644 – Disc brake adapter tool for 1-1/2" pistons. Usable two ways: one side fits Dodge Conquest, Ford, GM, Honda, Mazda, and Mitsubishi; other side fits Pontiac Fiero, Subaru, and Toyota. Wt., 3 oz.

No. 308645 – Four wheel disc brake adapter tool. Fits 1-11/16" pistons on Subaru, Nissan, Datsun, and Ford Thunderbird. Wt., 5 oz.

No. 308646 – Disc brake adapter tool for GM vehicles with 1-7/8" pistons. Wt., 5 oz.

No. 308647 – Disc brake adapter tool for GM vehicles with 2-1/8" pistons. Wt., 7 oz.

No. 308648 – Disc brake adapter tool for GM vehicles with 2-1/2" pistons. Wt., 10 oz.



### Disc Brake Piston Tool

- This "cube" tool rotates pistons back into brake calipers when replacing brake pads on vehicles with rear wheel disc brakes.
- Tool has 3/8" square drive, provides six drive pin configurations to fit most cars and light trucks. This updated version fits more applications than many competitors' tools.

**No. 4589** – Disc brake piston tool. Wt., 3 oz.



OTC Stinger

4589

### Universal Brake Caliper Bit Socket Set (9 Piece)

**No. 6135** – Universal brake caliper bit socket set (9 piece).  
Wt., 1 lb. 8 oz.

Set includes one each of the following:

- No. 6107 – Size T40, sq. drive 3/8"
- No. 6108 – Size T45, sq. drive 3/8"
- No. 6110 – Size T50, sq. drive 3/8"
- No. 6112 – Size T60, sq. drive 1/2"
- No. 6165 – Size 1/4", sq. drive 3/8"
- No. 6167 – Size 3/8", sq. drive 3/8"
- No. 6175 – Size 7 mm, sq. drive 3/8"
- No. 6176 – Size 8 mm, sq. drive 3/8"
- No. 6177 – Size 10 mm, sq. drive 3/8"



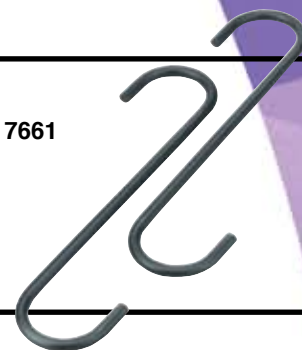
6135

### Caliper Hanger Set

These hangers are designed to hold brake calipers out of your way during brake, bearing, suspension, or axle work. In doing so, they make the jobs easier and faster, and reduce possible brake hose damage.

**No. 7661** – Caliper hanger set. Wt., 8 oz.

7661



### Hub Resurfacing Kit

- Fits your power drill to quickly sand rust off lug studs and rotors on the hub assembly. Sanding pads attach with Velcro™.
- For most domestic and import vehicles with either front or rear disc brakes. Includes holder and five sanding discs.
- Run at speeds of 1200 rpm or less for best results. (Do not exceed 1200 rpm).

**No. 7942A** – Hub resurfacing kit.  
Wt., 3 oz.

**No. 222548** – 10 pack of replacement sanding pads for No. 7942A. Wt., 1 oz.

**No. J-42450-9** – Holder only. Wt., 2 oz.



7942A

### Disc Brake Pad Spreader

- Works on:
  - 1998–2001 Chev. Lumina
  - 1998–2004 Chev. Monte Carlo
  - 2000–2004 Chev. Impala
  - 1998–2004 Buick Regal
  - 1998–1999 Olds Cutlass
  - 1998–2004 Pontiac Grand Prix
  - 1997–2004 Ford F-250, F-300, F-450 trucks
- Can be used on or off the vehicle during brake pad replacement to push the piston back into the caliper. Thick pushing plate (3/16") and wide, threaded collars are designed for heavy-duty applications.

**No. 6093** – Disc brake pad spreader. Wt., 2 lbs. 3 oz.



6093

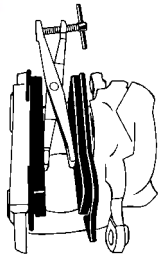
# AUTOMOTIVE SPECIAL TOOLS

## Brake Service



7034

Similar to Ford  
No. 206-D001  
(D79L-2196-A)



### Disc Brake Pad Spreader

Disc brake pad installation is much easier when you're using this spreader, which fits between the new pads and expands to retract the piston. This leaves your hands free to slide the caliper over the rotor. Designed to work on standard and four-piston caliper disc brakes, this tool will shorten installation time.

**No. 7034** – Disc brake pad spreader. Wt., 10 oz.



7456

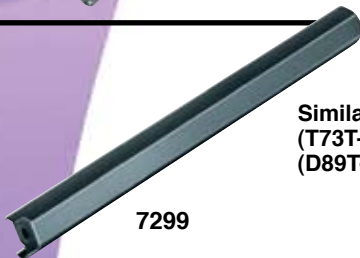
Similar to Ford  
No. 206-008  
(T73T-2300-A)

### Ford Brake Spring Tool

The hold-down springs on rear brake drums can now be easily removed or installed with the help of this tool – without causing damage or injuries.

- For use on 1967 to 2004 3/4- and 1-ton pickups and vans.

**No. 7456** – Ford brake spring tool. Wt., 7 oz.



7299

Similar to Ford No. 206-0004  
(T73T-2300-A)  
(D89T-2196-A)

### Ford Caliper Pin Remover

This is the damage-free way to remove brake caliper pins on 1986 to '88 Aerostar, Bronco, and E- and F-series pickups; 1983 to '88 Ranger; and 1984 to '88 Bronco II.

**No. 7299** – Ford caliper pin remover. Wt., 7 oz.



7499

### Ford Disc Brake Caliper Pin Remover

Forget those makeshift methods of disc brake caliper pin removal. With one of these tools, you can handle jobs on a variety of light-duty Ford models.

- For use on 1989 to 1996 Aerostar, Bronco, Ranger, E- and F-series pickups; 1989 to '91 Bronco II; and 1991 to 1995 Explorer.

**No. 7499** – Ford disc brake caliper pin remover. Wt., 8 oz.



7639

Similar to  
Kent-Moore  
J-39495

### GM W-Body Brake Bushing Service Set

Here's the complete set for servicing seized disc-brake rear-caliper slides on GM W-body cars. It includes a bushing driver, 180 grit hone, and a 1-1/4" diameter wire brush.

- For use on 1988 to 1993 Buick Regal, Oldsmobile Cutlass Supreme, Pontiac Grand Prix; 1990 to 1993 Chevrolet Lumina sedan.

**No. 7639** – GM W-body brake bushing service set. Wt., 13 oz.



6515

### 3-in-1 180° Tubing Bender

- Capable of making 180° bends in copper, brass, aluminum, and steel tubing.
- Just one tool works on three sizes of tubing: 1/4", 5/16", and 3/8".

**No. 6515** – 3-in-1 180° tubing bender. Wt., 1 lbs., 5 oz.

### Heavy-Duty Tubing Cutter

- Works on tubing sizes 1/8" to 1-1/8" O.D. (3 mm to 29 mm).
- Easily cuts copper, brass, aluminum, and steel brake lines.
- Ream folds onto cutter body for storage.
- Extra cutting wheel stored under ream.

**No. 6512** – Heavy-duty tubing cutter. Wt., 6 oz.

6512



### Mini Tubing Cutter

- Works on tubing sizes 1/8" to 5/8" O.D. (3 mm to 16 mm).
- Easily cuts copper, brass, aluminum, and steel brake lines in hard-to-reach places.
- Ream folds onto cutter body for storage.
- Extra cutting wheel stored under ream.

**No. 6514** – Mini tubing cutter. Wt., 3 oz.

6514

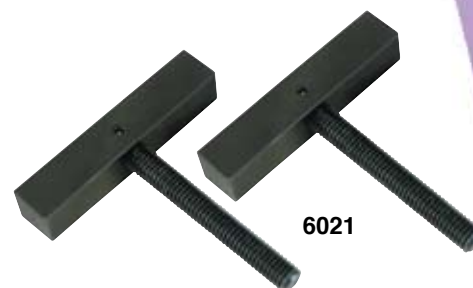


### Brake Drum and Rotor Remover

Having trouble pulling brake drums off hubs? This tool is the solution for that common problem.

- For use on Mercury Villager vans and many import vehicles.
- The No. 6021 tools simply thread into the 8 mm x 1.25 holes in the drum, then are tightened simultaneously to free the hub from the drum. Then the handles are used to pull off the drum.

**No. 6021** – Brake drum and rotor remover. Wt., 5 oz.



6021

### Brake Tool Set (8 piece)

- Set contains the most popular brake tools for servicing drum brakes on many import and domestic vehicles.
- Features BMC and high quality handles.
- Includes three different brake spoons to adjust most brake drums, five different brake spring tools that will service most drum brakes.

**No. 6516** – Brake tool set. Wt., 3 lbs. 2 oz.

6516



### GM Code Retrieval Keys

These keys enable you to easily retrieve trouble codes from pre-OBDII GM vehicles.

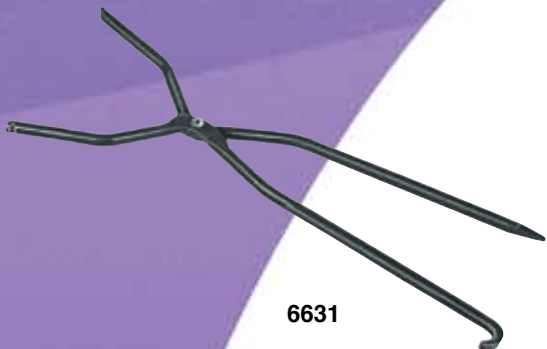
**No. 7739** – ECM code retrieval key. Jumps between A and B terminals on ALDL connector. Wt., 2 oz.

7739



# AUTOMOTIVE SPECIAL TOOLS

## Brake Service & Flaring Tools



6631

### GM Brake Shoe Spanner and Spring Remover

Our brake shoe spanner and spring remover tool is essential for removing the rear brake shoe retaining springs. It also removes and installs adjuster springs, and can be used to activate the brake self-adjuster mechanism.

- For use on 1991 to 1997 H-body, 1992 to 1997 C- and U-body vehicles, and 1995 and newer Chevrolet Monte Carlo and Lumina.

**No. 6631** – GM brake shoe spanner and spring remover. Wt., 11 oz.



4590

### Brake Spring Pliers and Claw

- Effectively removes and replaces shoe return springs of drum brakes on domestic cars and trucks. Thin, narrow point provides straight, in-line pull on spring.
- Robust handle provides powerful leverage. Double-ended design. Plated steel resists corrosion.

**No. 4590** – Brake spring pliers and claw. Wt., 14 oz.



4591

### Brake Spring Compressor Tool

- Provides leverage to remove and install stubborn hold down springs of drum brakes on cars and light trucks.
- Special beveled cup end and notched design grips the retaining washers (11/16" to 7/8") used to hold the springs in place. Comfortable handle and knurled base for solid gripping.

**No. 4591** – Brake spring compressor tool. Wt. 3 oz.



6503

### Double Flaring Tool Set with Cutter

- Designed for steel brake lines where double flaring is required.
- Also performs 45° single flares on 3/16", 1/4", 3/8", 7/16", 1/2", and 5/8" copper, aluminum, brass, and magnesium tubing.
- Includes the No. 6514 tubing cutter and adapters for double flaring 3/16", 1/4", 5/16", 3/8", and 1/2" tubing.
- Housed in a plastic blow-molded case.

**No. 6503** – Double flaring tool set with cutter. Wt., 3 lbs., 7 oz.

### Bubble (I.S.O.) Flaring Tool Set with Cutter

- Designed for metric, steel brake lines where an ISO or bubble flare is required.
- Includes the No. 6514 tubing cutter and adapters for 4.75 mm, 6 mm, 8 mm, and 10 mm tubing.
- Housed in a plastic blow-molded case.

**No. 6504** – Bubble (I.S.O.) flaring tool set with cutter.  
Wt., 3 lbs., 7 oz.



### Metric Double Flaring Tool Set with Cutter

- Designed for metric, steel brake lines where double flaring is required.
- Also performs 45° single flares on 4 mm, 4.75 mm, 6 mm, 8 mm, 10 mm, 12 mm, and 14 mm copper, aluminum, brass, and magnesium tubing.
- Includes the No. 6514 tubing cutter and adapters for double flaring 4 mm, 4.75 mm, 6 mm, 8 mm, and 10 mm tubing.
- Housed in a plastic blow-molded case.

**No. 6506** – Metric double flaring tool set with cutter.  
Wt., 3 lbs., 7 oz.



### Double Flaring Tool Kit

- Designed for double or single flare in copper, aluminum, soft steel brake line, and brass tubing (to 45 degrees).
- Includes five adapters 3/16" through 1/2" (4.8 mm through 12.7 mm).
- Chrome swivel, made of alloy steel, reduces friction. Forged yoke made of heat-treated steel. Housed in a blow-molded storage case.

**No. 4503** – Double flaring tool kit. Wt., 2 lbs., 10 oz.



### Bubble (I.S.O.) Flaring Tool Kit

- Designed for crack-free bubble flares on soft steel tubing used in automotive brake systems.
- Includes four dies: 4.75, 6, 8, and 10 mm adapters.
- Forged steel yoke, flaring bar, and all the adapters needed for ISO bubble flaring.
- The most economical "Bubble" flare tool to date. Housed in a blow-molded storage.

**No. 4504** – Bubble (I.S.O.) flaring tool kit. Wt., 2 lbs., 10 oz.



# AUTOMOTIVE SPECIAL TOOLS

## Torx Bit Sockets



5900A

### Master TORX® Socket Set

51-piece, professional socket set in a blow-molded case.

**Hundreds of applications from front to rear on cars and trucks:**

- seat belt bolts
- interior and exterior trim screws
- engine assemblies
- tail lamp lenses & assemblies
- bumpers
- headlight bezels
- door strikers & latches
- brake rotor bolts
- GM front-wheel drive front wheel bearings
- truck box liners
- Styles available: TORX bit sockets, TORX PLUS bits sockets, tamper-resistant TORX bits, and TORX sockets for external bolts.
- Made from superior S2 steel to meet or exceed torque specifications.

**No. 5900A** – Master TORX® socket set. 51-piece set in blow-molded case. Wt., 7 lbs.

### Master Torx Socket Set includes:

#### TORX® Bit Socket Set T6 to T60 (14 piece)



No.	Size	Sq. Drive	No.	Size	Sq. Drive
5906	T6	1/4"	6106	T30	1/4"
5908	T8	1/4"	6107	T40	3/8"
6101	T10	1/4"	6108	T45	3/8"
6102	T15	1/4"	6109	T47	3/8"
6103	T20	1/4"	6110	T50	3/8"
6104	T25	1/4"	6111	T55	3/8"
6105	T27	1/4"	6112	T60	1/2"
No.	Size	Sq. Drive			

#### TORX PLUS® Bit Sockets TP8 to TP60 (12 piece)



No.	Size	Sq. Drive	No.	Size	Sq. Drive
5918	TP8	1/4"	6186	TP30	1/4"
6181	TP10	1/4"	6187	TP40	3/8"
6182	TP15	1/4"	6188	TP45	3/8"
6183	TP20	1/4"	6191	TP50	3/8"
6184	TP25	1/4"	5915	TP55	3/8"
6185	TP27	1/4"	5916	TP60	1/2"

#### TORX® External Socket E4 to E24 (13 piece)



No.	Size	Sq. Drive	No.	Size	Sq. Drive
5934	E4	1/4"	6156	E14	3/8"
5935	E5	1/4"	6157	E16	3/8"
6151	E6	1/4"	5936	E18	3/8"
6152	E7	1/4"	5937	E20	3/8"
6153	E8	1/4"	5938	E22	1/2"
6154	E10	3/8"	5939	E24	1/2"
6155	E12	3/8"			

#### TORX® Tamper-Resistant Bits TT8 to TT60 (12 piece)



No.	Size	Hex Insert	No.	Size	Hex Insert
5919	TT8	1/4"	5925	TT30	1/4"
5920	TT10	1/4"	5926	TT40	3/8"
5921	TT15	1/4"	5927	TT45	3/8"
5922	TT20	1/4"	5928	TT50	3/8"
5923	TT25	1/4"	5929	TT55	3/8"
5924	TT27	1/4"	5930	TT60	1/2"



6100

### TORX® Bit Socket Set (12 Piece)

**No. 6100** – TORX® bit socket set (12 piece).  
Wt., 1 lb. 3 oz.

Set includes one each of the following:

- No. 6101** – Size T10, Sq. Drive 1/4"
- No. 6102** – Size T15, Sq. Drive 1/4"
- No. 6103** – Size T20, Sq. Drive 1/4"
- No. 6104** – Size T25, Sq. Drive 1/4"
- No. 6105** – Size T27, Sq. Drive 1/4"
- No. 6106** – Size T30, Sq. Drive 1/4"
- No. 6107** – Size T40, Sq. Drive 3/8"
- No. 6108** – Size T45, Sq. Drive 3/8"
- No. 6109** – Size T47, Sq. Drive 3/8"
- No. 6110** – Size T50, Sq. Drive 3/8"
- No. 6111** – Size T55, Sq. Drive 3/8"
- No. 6112** – Size T60, Sq. Drive 1/2"





### TORX® Tamper-Resistant Bit Set (8 Piece)

No. 6145 – TORX® tamper-resistant bit set (8 piece).  
Wt., 4 oz.

Set includes one each of the following:

- No. 6141 – Size T10H, Hex Insert 1/4"
- No. 6142 – Size T15H, Hex Insert 1/4"
- No. 6143 – Size T20H, Hex Insert 1/4"
- No. 6144 – Size T25H, Hex Insert 1/4"
- No. 6146 – Size T27H, Hex Insert 1/4"
- No. 6147 – Size T30H, Hex Insert 1/4"
- No. 6148 – Size T40H, Hex Insert 1/4"
- No. 6130 – Sq. Drive 1/4", Bit Holder 1/4"



6145

### TORX PLUS® Bit Socket Set (9 Piece)

No. 6180 – TORX PLUS® bit socket set (9 piece).  
Wt., 11 oz.

Set includes one each of the following:

- No. 6181 – Size TP10, Sq. Drive 1/4"
- No. 6182 – Size TP15, Sq. Drive 1/4"
- No. 6183 – Size TP20, Sq. Drive 1/4"
- No. 6184 – Size TP25, Sq. Drive 1/4"
- No. 6185 – Size TP27, Sq. Drive 1/4"
- No. 6186 – Size TP30, Sq. Drive 1/4"
- No. 6187 – Size TP40, Sq. Drive 3/8"
- No. 6188 – Size TP45, Sq. Drive 3/8"
- No. 6191 – Size TP50, Sq. Drive 3/8"



6180

### TORX® Socket Set (For External Bolts; 7 Piece)

No. 6150 – TORX® socket set for external bolts (7 piece). Wt., 10 oz.

Set includes one each of the following:

- No. 6151 – Size E6, Sq. Drive 1/4"
- No. 6152 – Size E7, Sq. Drive 1/4"
- No. 6153 – Size E8, Sq. Drive 1/4"
- No. 6154 – Size E10, Sq. Drive 3/8"
- No. 6155 – Size E12, Sq. Drive 3/8"
- No. 6156 – Size E14, Sq. Drive 3/8"
- No. 6157 – Size E16, Sq. Drive 3/8"



6150

### Universal Brake Caliper Bit Socket Set (9 Piece)

No. 6135 – Universal brake caliper bit socket set (9 piece). Wt., 1 lb. 8 oz.

Set includes one each of the following:

- No. 6107 – Size T40, Sq. Drive 3/8"
- No. 6108 – Size T45, Sq. Drive 3/8"
- No. 6110 – Size T50, Sq. Drive 3/8"
- No. 6112 – Size T60, Sq. Drive 1/2"
- No. 6165 – Size 1/4", Sq. Drive 3/8"
- No. 6167 – Size 3/8", Sq. Drive 3/8"
- No. 6175 – Size 7 mm, Sq. Drive 3/8"
- No. 6176 – Size 8 mm, Sq. Drive 3/8"
- No. 6177 – Size 10 mm, Sq. Drive 3/8"



6135

# AUTOMOTIVE SPECIAL TOOLS

## Torx Bit Sockets



6160

### Hex Bit Socket Set (Fractional; 7 Piece)

No. 6160 – Hex bit socket set (Fractional; 7 piece).  
Wt., 1 lb.

Set includes one each of the following:

- No. 6161 – Size Hex 1/8", Sq. Drive 3/8"
- No. 6162 – Size Hex 5/32", Sq. Drive 3/8"
- No. 6163 – Size Hex 3/16", Sq. Drive 3/8"
- No. 6164 – Size Hex 7/32", Sq. Drive 3/8"
- No. 6165 – Size Hex 1/4", Sq. Drive 3/8"
- No. 6166 – Size Hex 5/16", Sq. Drive 3/8"
- No. 6167 – Size Hex 3/8", Sq. Drive 3/8"



HEX



6170

### Hex Bit Socket Set (Metric; 7 Piece)

No. 6170 – Hex bit socket set (Metric; 7 piece).  
Wt., 1 lb.

Set includes one each of the following:

- No. 6171 – Size Hex 3 mm, Sq. Drive 3/8"
- No. 6172 – Size Hex 4 mm, Sq. Drive 3/8"
- No. 6173 – Size Hex 5 mm, Sq. Drive 3/8"
- No. 6174 – Size Hex 6 mm, Sq. Drive 3/8"
- No. 6175 – Size Hex 7 mm, Sq. Drive 3/8"
- No. 6176 – Size Hex 8 mm, Sq. Drive 3/8"
- No. 6177 – Size Hex 10 mm, Sq. Drive 3/8"



HEX

## Individually sold items.

### TORX® Bits

- No. 5906 – Size T6, Sq. Drive 1/4"
- No. 5908 – Size T8, Sq. Drive 1/4"
- No. 6121 – Size T10, Hex Insert 1/4"
- No. 6122 – Size T15, Hex Insert 1/4"
- No. 6123 – Size T20, Hex Insert 1/4"
- No. 6124 – Size T25, Hex Insert 1/4"
- No. 6125 – Size T27, Hex Insert 1/4"
- No. 6126 – Size T30, Hex Insert 1/4"
- No. 6127 – Size T40, Hex Insert 5/16"
- No. 6128 – Size T45, Hex Insert 5/16"
- No. 6114 – Size T47, Hex Insert 5/16"
- No. 6129 – Size T50, Hex Insert 5/16"
- No. 6117 – Size T55, Hex Insert 7/16"
- No. 6119 – Size T60, Hex Insert 1/2"



TORX®

### TORX PLUS® Bits

- No. 5918 – Size TP8, Sq. Drive 1/4"
- No. 6132 – Size TP10, Hex Insert 1/4"
- No. 6133 – Size TP15, Hex Insert 1/4"
- No. 6134 – Size TP20, Hex Insert 1/4"
- No. 6158 – Size TP25, Hex Insert 1/4"
- No. 6159 – Size TP27, Hex Insert 1/4"
- No. 6168 – Size TP30, Hex Insert 1/4"
- No. 6169 – Size TP40, Hex Insert 5/16"
- No. 6178 – Size TP45, Hex Insert 5/16"
- No. 6194 – Size TP50, Hex Insert 5/16"
- No. 5915 – Size TP55, Sq. Drive 3/8"
- No. 6195 – Size TP55, Hex Insert 7/16"
- No. 5916 – Size TP60, Sq. Drive 1/2"
- No. 6196 – Size TP60, Hex Insert 1/2"



TORX PLUS®

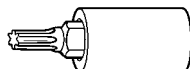
### TORX® Tamper-Resistant Bits

- No. 5919 – Size TT8, Hex Insert 1/4"
- No. 5920 – Size TT10, Hex Insert 1/4"
- No. 5921 – Size TT15, Hex Insert 1/4"
- No. 5922 – Size TT20, Hex Insert 1/4"
- No. 5923 – Size TT25, Hex Insert 1/4"
- No. 5924 – Size TT27, Hex Insert 1/4"
- No. 5925 – Size TT30, Hex Insert 1/4"
- No. 5926 – Size TT40, Hex Insert 3/8"
- No. 5927 – Size TT45, Hex Insert 3/8"
- No. 5928 – Size TT50, Hex Insert 3/8"
- No. 5929 – Size TT55, Hex Insert 3/8"
- No. 5930 – Size TT60, Hex Insert 1/2"
- No. 6141 – Size T10H, Hex Insert 1/4"
- No. 6142 – Size T15H, Hex Insert 1/4"
- No. 6143 – Size T20H, Hex Insert 1/4"
- No. 6144 – Size T25H, Hex Insert 1/4"
- No. 6146 – Size T27H, Hex Insert 1/4"
- No. 6147 – Size T30H, Hex Insert 1/4"
- No. 6148 – Size T40H, Hex Insert 1/4"
- No. 6149 – Size T45H, Hex Insert 5/16"



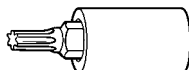
### TORX® Bit Sockets

- No. 6101 – Size T10, Sq. Drive 1/4"
- No. 6102 – Size T15, Sq. Drive 1/4"
- No. 6103 – Size T20, Sq. Drive 1/4"
- No. 6104 – Size T25, Sq. Drive 1/4"
- No. 6105 – Size T27, Sq. Drive 1/4"
- No. 6106 – Size T30, Sq. Drive 1/4"
- No. 6107 – Size T40, Sq. Drive 3/8"
- No. 6108 – Size T45, Sq. Drive 3/8"
- No. 6109 – Size T47, Sq. Drive 3/8"
- No. 6110 – Size T50, Sq. Drive 3/8"
- No. 6111 – Size T55, Sq. Drive 3/8"
- No. 6112 – Size T60, Sq. Drive 1/2"



### TORX PLUS® Bit Sockets

- No. 6181 – Size TP10, Sq. Drive 1/4"
- No. 6182 – Size TP15, Sq. Drive 1/4"
- No. 6183 – Size TP20, Sq. Drive 1/4"
- No. 6184 – Size TP25, Sq. Drive 1/4"
- No. 6185 – Size TP27, Sq. Drive 1/4"
- No. 6186 – Size TP30, Sq. Drive 1/4"
- No. 6187 – Size TP40, Sq. Drive 3/8"
- No. 6188 – Size TP45, Sq. Drive 3/8"
- No. 6191 – Size TP50, Sq. Drive 3/8"
- No. 6192 – Size TP55, Sq. Drive 3/8"
- No. 6193 – Size TP60, Sq. Drive 1/2"



### Bit Holders

- No. 6130 – Sq. Drive 1/4", Bit Size 1/4"
- No. 6131 – Sq. Drive 3/8", Bit Size 5/16"
- No. 6136 – Sq. Drive 3/8", Bit Size 7/16"
- No. 6113 – Sq. Drive 1/2", Bit Size 1/2"



### Hex Bit Sockets (Fractional)

- No. 6161 – Size Hex 1/8", Sq. Drive 3/8"
- No. 6162 – Size Hex 5/32", Sq. Drive 3/8"
- No. 6163 – Size Hex 3/16", Sq. Drive 3/8"
- No. 6164 – Size Hex 7/32", Sq. Drive 3/8"
- No. 6165 – Size Hex 1/4", Sq. Drive 3/8"
- No. 6166 – Size Hex 5/16", Sq. Drive 3/8"
- No. 6167 – Size Hex 3/8", Sq. Drive 3/8"



### Hex Bit Sockets (Metric)

- No. 6171 – Size Hex 3 mm, Sq. Drive 3/8"
- No. 6172 – Size Hex 4 mm, Sq. Drive 3/8"
- No. 6173 – Size Hex 5 mm, Sq. Drive 3/8"
- No. 6174 – Size Hex 6 mm, Sq. Drive 3/8"
- No. 6175 – Size Hex 7 mm, Sq. Drive 3/8"
- No. 6176 – Size Hex 8 mm, Sq. Drive 3/8"
- No. 6177 – Size Hex 10 mm, Sq. Drive 3/8"



### TORX® Sockets for External Bolts

- No. 5934 – Size E4, Sq. Drive 1/4"
- No. 5935 – Size E5, Sq. Drive 1/4"
- No. 6151 – Size E6, Sq. Drive 1/4"
- No. 6152 – Size E7, Sq. Drive 1/4"
- No. 6153 – Size E8, Sq. Drive 1/4"
- No. 6154 – Size E10, Sq. Drive 3/8"
- No. 6155 – Size E12, Sq. Drive 3/8"
- No. 6156 – Size E14, Sq. Drive 3/8"
- No. 6157 – Size E16, Sq. Drive 3/8"
- No. 5936 – Size E18, Sq. Drive 3/8"
- No. 5937 – Size E20, Sq. Drive 3/8"
- No. 5938 – Size E22, Sq. Drive 1/2"
- No. 5939 – Size E24, Sq. Drive 1/2"



# AUTOMOTIVE SPECIAL TOOLS

## Ribe Key, Seat Belt Tool



4609

### Ribe Key Set

- These keys work on late model Volkswagen, Audi, Lancer, Fiat, and Lancia vehicles.
- Ribe-style bolts are used on cylinder heads, headlights, and transmission fill plugs.
- Set includes seven keys: M4, M5, M6, M7, M8, M9, and M10.

**No. 4609** – Ribe key set. Wt., 1 lb., 9 oz.



Similar to  
Kent-Moore  
BO-47549

5901

### GM Seat Belt Bolt Removal Tool

- Allows use of 1/2" impact wrench to remove the seat belt retaining bolts on most GM cars and light trucks.
- Outer collar fits over the TORX® bit to center the impact wrench and bit to the seat belt bolt, preventing damage to the bit and seat belt bolt.

**No. 5901** – GM seat belt bolt removal tool. Wt., 8 oz.



5909

### RIBE Bit Set – 24 Piece

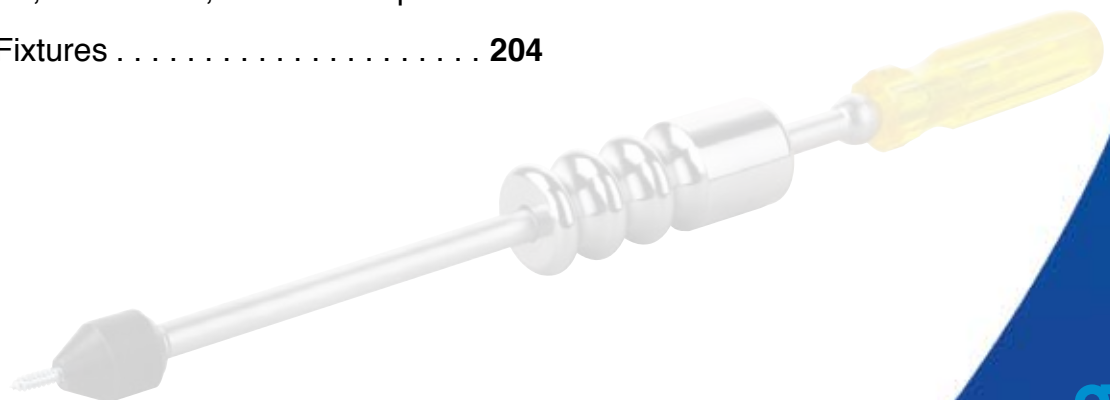
The bit pattern known as "RIBE" or "polydrive" is now used on most European cars and light trucks, and is fast becoming more common with U.S. manufacturers. Packaged in a metal box, this is the largest collection of RIBE bits on the market.

**No. 5909** – RIBE bit set—24 piece. Wt., 8 lbs.

# GENERAL PURPOSE TOOLS

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# GENERAL PURPOSE TOOLS

## Retaining Ring Pliers



**No. 7053K**  
Similar to Ford  
No. D79L-7000-A

15702

7123K

7125K

7300

### Retaining Ring Pliers

Here are a variety of retaining ring pliers, available individually or in sets, to handle many applications.

**No. 7053K** – Internal/external retaining ring pliers kit. Includes four 90° tips (.038" diameter), four 45° tips (.047" diameter), and eight straight tips (.047" and .070" diameter). Wt., 11 oz.

**No. 15702** – Replacement tip kit. Contains 4 sets, 4 tips per set. Wt., 2 oz.

**No. 7123K** – Convertible retaining ring pliers kit. For internal or external rings. Contains one No. 1120 (.038" diameter) and one No. 1340 (.070" diameter) straight tip pliers. Wt., 15 oz.

**No. 7125K** – Convertible retaining ring pliers kit. For internal or external rings. Contains one No. 1125 (.038" diameter) and one No. 1345 (.070" diameter) 45° pliers. Wt., 15 oz.

**No. 7300** – Internal, straight tip retaining ring pliers. 16" long. Wt., 2 lbs., 2 oz.

**No. 7301** – External, straight tip retaining ring pliers. 16" long. Wt., 2 lbs., 2 oz.

#### Replacement tips (pairs):

**No. 209201** – For pliers Nos. 7300 and 7301. Wt., 2 oz.

**No. 222029** – 45° for pliers Nos. 7300 and 7301. Wt., 2 oz.

**No. 222030** – 90° for pliers Nos. 7300 and 7301. Wt., 2 oz.

#### How to select the correct pliers:

1. If ring number is known, locate ring number in chart —pliers are listed in right-hand column.
2. Or, measure diameter of shaft bore and locate size in chart —pliers are in right-hand column.

Internal	
No. 0100 No. 0300 No. 0500	No. 7300
Convertible	
No. 1120 No. 1125 No. 1340 No. 1345	
External	
No. 0200 No. 0400 No. 0600	No. 7301

Ring Series No.	Size Range (Ring Size No.)	Bore of Shaft Dia. Range ("Inch" equiv.)	Pliers No.
5100	12 to 87	1/8" to 7/8"	0200
	12,15,25 to 66	1/8" to 21/32"	1120, 1125
	25 to 143	1/4" to 1-7/16"	7053K, 7123K, or 7125K
	93 to 143	15/16" to 1-7/16"	1340, 1345, or 0400
5101	31 to 75	5/16" to 3/4"	0600
5102	150 to 350	1-1/2" to 3-1/2"	
5555	75	3/4"	7301
	354 to 650	3-35/64" to 6-1/2"	
5108	50 to 100	1/2" to 1"	0200
	50 to 78	1/2" to 25/32"	1120
	50 to 200	1/2" to 2"	7053K, 7123K, or 7125K
	106 to 200	1-1/16" to 2"	1340, 1345, or 0400
	215 to 334	2-1/8" to 3-11/32"	0600
	350 to 400	3-1/2" to 4"	7301
N5000	37 to 102	3/8" to 1-1/32"	0100
	37 to 56	3/8" to 9/16"	1120, 1125
	37 to 200	3/8" to 1-3/4"	7053K, 7123K, or 7125K
	106 to 175	1-1/16" to 1-3/4"	1340, 0300
	N5001	181 to 300	1-13/16" to 3-1/2"
N5002	306 to 625	3-1/16" to 6-1/4"	7300
5008	75 to 137	3/4" to 1-3/8"	0100
	75 to 100	3/4" to 1"	1120, 1125
	75 to 200	3/4" to 2"	7053K, 7123K, or 7125K
	143 to 200	1-7/16" to 2"	1340, 1345, or 0300
	206 to 300	2-1/16" to 3"	0500
		315 to 400	3-5/32" to 4"

### Retaining Ring Pliers Set

This set includes 12 of our most popular retaining ring pliers, in sizes for automotive applications. Tips include straight, 45°, and 90° angles in four different sizes (.038, .047, .070, and .090" diameter).

- Includes a sturdy plastic organizer box.

**No. 7412K** – Retaining ring pliers set. Wt., 5 lbs.

#### No. 7412K includes:

Tool No.	Description	Ship. Wt.
1120	.038" dia., straight	4 oz.
1125	.038" dia., 45°	4 oz.
1131	.038" dia., 90°	4 oz.
1320	.047" dia., straight	4 oz.
1325	.047" dia., 45°	4 oz.
1329	.047" dia., 90°	4 oz.
1340	.070" dia., straight	7 oz.
1345	.070" dia., 45°	7 oz.
1349	.070" dia., 90°	7 oz.
1560	.090" dia., straight	9 oz.
1565	.090" dia., 45°	9 oz.
1569	.090" dia., 90°	9 oz.

All items can be purchased separately.



7412K

### Snap Ring Pliers Set – Internal/External

- For internal or external snap rings; thumbscrew permits quick conversion.
- Made of heavy-gauge tempered steel.
- Includes two stainless steel handled picks.
- Contained in a blow-molded plastic storage case.

**No. 4512** – Snap ring pliers set. Wt., 4 lbs., 3 oz.

#### No. 4512 includes:

Tool No.	Description
4512-1	.090" tip, straight pliers
4512-2	.090" tip, 90° pliers
4512-3	.070" tip, straight pliers
4512-4	.070" tip, 90° pliers
4512-5	.047" tip, straight pliers
4512-6	.047" tip, 90° pliers
4512-7	.038" tip, straight pliers
4512-8	.038" tip, 90° pliers
4512-9	straight tip pick
4512-10	90° tip pick



4512



### Convertible Retaining Ring Pliers Set

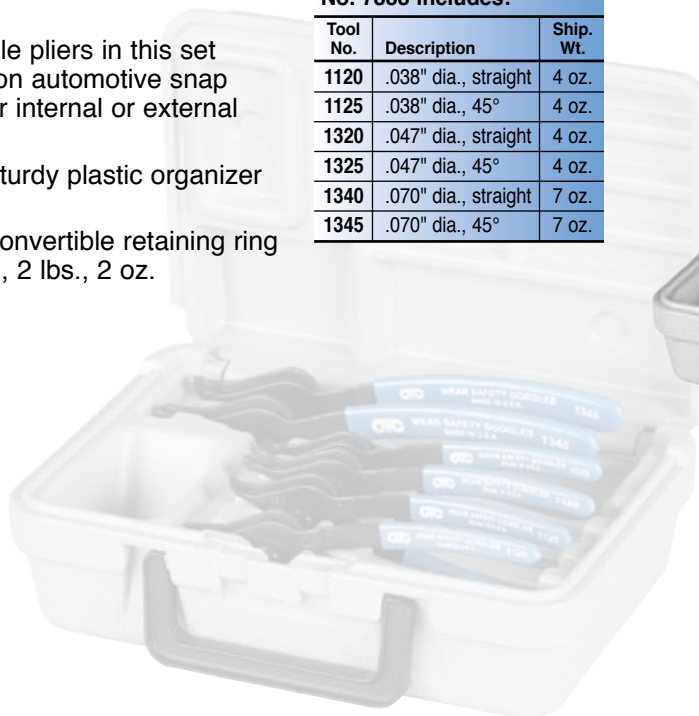
The convertible pliers in this set can be used on automotive snap rings, in either internal or external applications.

- Includes a sturdy plastic organizer box.

**No. 7888** – Convertible retaining ring pliers set. Wt., 2 lbs., 2 oz.

#### No. 7888 includes:

Tool No.	Description	Ship. Wt.
1120	.038" dia., straight	4 oz.
1125	.038" dia., 45°	4 oz.
1320	.047" dia., straight	4 oz.
1325	.047" dia., 45°	4 oz.
1340	.070" dia., straight	7 oz.
1345	.070" dia., 45°	7 oz.



7888

# GENERAL PURPOSE TOOLS

## Snap Ring Pliers



4514

### Mini Snap Ring Pliers Set (4 piece)

- Small-size pliers for work in tight areas. Service S-ring and R-ring clips, internal or external, straight or angled. Ruggedly built of heat-treated chrome molybdenum steel.
- Set includes two internal snap ring pliers (one straight, one 45°) and two external snap ring pliers (one straight, one 45°).
- All pliers have .038" (1.0mm) diameter tips.
- Overall length 3"; handle length 2".

**No. 4514** – Mini snap ring pliers set. Wt., 6 oz.



4513

### Heavy-Duty Snap Ring Pliers Set (2 piece)

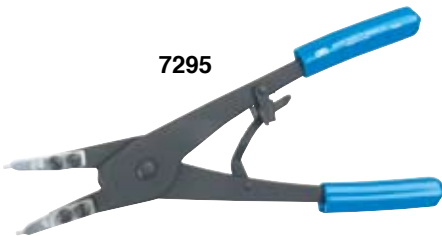
- Heat treated steel "circlip" pliers for large equipment repair. Replaceable tips and spring ratchet locking mechanism to securely hold against snap ring tension.
- Internal pliers' capacity 3-1/16" to 6-1/4" (78 mm to 159 mm) snap rings.
- External pliers' capacity 3-1/2" to 6-1/2" (89 mm to 165 mm) snap rings.
- Blow-molded storage case includes extra sets of replaceable tips.
- Overall length 16"; handle length 12-1/2".

**No. 4513** – Heavy-duty snap ring pliers set. Wt., 7 lbs., 3 oz.

#### No. 4513 includes:

Tool No.	Description
4513-1	Internal snap ring pliers
4513-2	External snap ring pliers
4513-3	(2) .12" (3 mm) straight tip
4513-4	(2) .12" (3 mm) 45° tips
4513-5	(2) .12" (3 mm) 90° tips
4513-6	4 tip retaining screws

7295



### Retaining Ring Pliers

The "squeeze-lock" ratchet action of this tool locks retaining rings in position, making removal and installation easy. It features cushioned handles to ensure a secure grip.

- Will handle rings 3/16" thick and up to 4" in diameter.
- Pliers is 12" long.

**No. 7295** – Retaining ring pliers. Wt., 1 lb., 2 oz.

**No. 211051** – Pair of replacement tips. Wt., 2 oz.

7313



### Retaining Ring Pliers

This tool removes the external retaining rings used in transmissions, differentials and other automotive components.

- Maximum spread is 1-1/16".

**No. 7313** – Retaining ring pliers, 7-3/4" long. Wt., 8 oz.

714



### Horseshoe Lock Ring Pliers

This ruggedly built pliers is designed to spread and remove horseshoe lock rings used on hydraulic brakes, differentials, transmissions, and CV joints.

- Handles are 8" long.

**No. 714** – Horseshoe lock ring pliers. Wt., 8 oz.



### Retaining Ring Pliers

An ideal tool for any transmission shop, this 13" long pliers with a maximum spread of 2.5" features replaceable tips and a spring-return handle.

**No. 7410** – Retaining ring pliers with replaceable tips.  
Wt., 1 lb., 5 oz.

**No. 214903** – Set of replacement tips. Wt., 2 oz.



### Fluid Evacuation / Brake Bleeding Tools

- Use to bleed brake systems and remove a variety of fluid from vehicles, such as antifreeze, oil, transmission fluid, gear lube, etc.
- Quick connect locking hose adapters and ball-style on/off valve on hose prevent fluid leakage.
- Equipped with a relief valve to prevent over-pressurizing the tank.

**No. 8100** – Operates by shop air or a hand pump; shipped complete with a brake bleeding hose, fluid evacuation hose, and two suction hoses (6 mm and 7 mm); 10-liter capacity tank. Wt., 10 lbs.

**No. 8101** – Operates with shop air; shipped with a brake bleeding hose and fluid evacuation hose; 6-liter capacity tank. Wt., 10 lbs., 13 oz.



### Deluxe Metal Vacuum Pump

With this multipurpose pump, vacuum testing and brake bleeding are one-person operations. Made of die cast metal, the repairable pump will develop and hold about 25" of mercury vacuum. It comes with all the components needed to help speed you through most brake jobs.

- Includes an easy-to-read gauge (inch and mm graduations), reservoir jar, transfer and storage lids, rubber cup adapter, brake-bleeding adapters, tubing, and carrying case.

**No. 7559** – Deluxe metal vacuum pump.  
Wt., 3 lbs., 12 oz.



### Vacuum / Pressure Pump Kit

- Hand pump may be set to create vacuum or pressure.
- Gauge on pump reads 0–30 in. Hg (0 to -1 BAR) vacuum; 0–60 psi (0–4 BAR) pressure.
- Includes an assortment of fittings and hoses to adapt to most components that need to be tested.
- Includes brake fluid reservoir for bleeding brake systems.

**No. 4752** – Vacuum/pressure pump kit.  
Wt., 4 lbs., 4 oz.



# GENERAL PURPOSE TOOLS

## Stud, Screw Extractor & Torque Wrenches



### Combination Stud Extractor and Drill Bit Set

- Removes bolts and screws up to 5/8" diameter.
- **Set contains:**
  - Five left-handed stud extractors: 5/64", 7/64", 5/32", 1/4", and 19/64".
  - Five left-handed cobalt drill bits: 5/64", 7/64", 5/32", 1/4", and 19/64".

**No. 4545** – Combination stud extractor and drill bit set. Wt., 13 oz.



### Fingertip Ratchet Bit and Socket Kit (29 piece)

- Two fingertip ratchets (three-positions: forward, lock, reverse). One bit driver; one socket driver with quick release.
- 13-piece, 1/4" drive sockets. SAE: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16". Metric: 6 mm, 7 mm, 8 mm, 9 mm, 10 mm, 12 mm, 13 mm.
- 14-piece, 4.5, 6.5 slotted bits, #1 and #2 Phillips bits TORX: T10, T15, T20, T25, T27, T30; Tamper resistant T10, T15, T20, T25.

**No. 5910** – Fingertip ratchet bit and socket kit (29 piece). Wt., 1 lb.



### Screw Extractor Set

- Removes broken studs and bolts.
- Includes ten guide bushings, five drill bits and five screw extractors with extractor nuts.
- Drill bits are left handed to help removal.

**No. 4651** – Screw extractor set. Wt., 1 lbs., 7 oz.



### Accutorq™ Klikker Torque Wrenches

These precision torque wrenches make a loud click when you've reached the torque setting. They feature ratcheting heads, all-metal construction, permanently roll-marked scales, and soft-grip rubber handles that enable you to firmly grasp the wrench for right- or left-hand torquing.

- Includes molded plastic case.
- One-year warranty.

**No. 7375** – 150–750 in. lbs. Accutorq Klikker torque wrench. Wt., 2 lbs., 8 oz.

**No. 7377** – 30–150 ft. lbs. Accutorq Klikker torque wrench. Wt., 4 lbs., 3 oz.

**No. 7378** – 50–250 ft. lbs. Accutorq Klikker torque wrench. Wt., 4 lbs., 3 oz.

**No. 7379** – 100–600 ft. lbs. Accutorq Klikker torque wrench. Wt., 14 lbs.

OTC No.	Torque Range	Graduations	Square Drive	Length	Wt. (Lbs.)
7375	150–750 in. lbs. (17–85 N·m)	10 in. lbs.	3/8"	15-1/8"	2.8
7377	30–150 ft. lbs. (41–203 N·m)	2 ft. lbs.	1/2"	17-3/4"	4.2
7378	50–250 ft. lbs. (68–339 N·m)	2 ft. lbs.	1/2"	19-3/8"	4.2
7379	100–600 ft. lbs. (136–813 N·m)	10 ft. lbs.	3/4"	42-1/4"	14

### Torque Multipliers

These 4:1 ratio torque multipliers provide the power to tighten threaded fasteners in a number of truck and tractor repair operations.

**No. 5073** – 1,000 lb. capacity torque multiplier. Has 1/2" square drive and 3/4" square drive output. Includes 14" extension handle. Wt., 7 lbs.

**No. 5074** – 2,000 lb. capacity torque multiplier. Has 3/4" square drive and 1" square drive output. Includes 18" extension handle. Wt., 14 lbs.



### Accutorq™ Dial Torque Wrench

This torque wrench features a large, easy-to-read dial scale with memory needle, and has chrome-plated steel surrounding the bezel to protect the scale, lens, and needle.

- Meets all federal specifications.
- Includes molded plastic case.
- One-year warranty.

**No. 7380** – Accutorq™ dial torque wrench. Wt., 1 lb., 12 oz.



OTC No.	Torque Range	Graduations	Square Drive	Length	Wt. (Lbs.)
7380	0–150 in. lbs. (0–17 N·m)	3 in. lbs.	3/8"	10"	1.7

### Torque Angle Meter

This meter simply connects to any standard 1/2" socket extension and measures angle rotation, electronically! Clip unit to socket extension and enter desired angle. No support arm to connect between each fastener, fast and accurate to use. Unit will beep and flash when desired angle is reached. 0-199 degree capability, +/- 1% accuracy.

**No. 3559** – Torque angle meter. Wt., 11 oz.

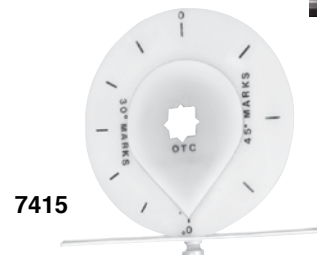


### Torque Angle Gauge

Many manufacturers specify a torque angle procedure for tightening fasteners and head bolts because it helps ensure more accurate tightening. This torque angle gauge, featuring an easy-to-read gauge, will provide a precise reading.

- Accommodates a 1/2" drive torque wrench.

**No. 7415** – Torque angle gauge. Wt., 2 oz.



### Torque Angle Gauge

- Required when servicing many late model engines that use torque-to-yield fasteners. Measures angle of rotation after pre-torque in torque-angle applications.
- The 360° scale is marked in 2° increments and intervals of 10° and 30°; easily zeroed for next application by turning the tool housing.
- Has 1/2" male and female square drives.

**No. 4554** – Torque angle gauge. Wt., 6 oz.



### Magnetic Parts Tray

- Rectangular, stainless steel tray is 9-1/2" x 5-1/2" and 1-1/4" deep. Holds tools and small metal parts, so they don't get lost or misplaced during repair work.
- Two heavy-duty magnets on bottom of tray, with non-marring contact pads, securely hold tray to metal objects such as a tool box, air cleaner cover, frame rail, fender, etc.

**No. 4490** – Magnetic parts tray. Wt., 1 lb., 11 oz.



4490

# GENERAL PURPOSE TOOLS

## Radio Service Tools



5945

### Air Bag Release Tool Kit

- Use to remove the air bag module from the steering wheel.
- Work on many GM, Ford and Mercedes Benz vehicles.

Applications:

Ford 2000-2004 Taurus/Sable, 1999-2003 Windstar Van.

GM 1999-2005 Chevrolet Impala, Lumina, Monte Carlo, Venture, Pontiac Bonneville, Grand Prix, Montana, Buick LeSabre, Century, Regal, Olds Intrigue, Cadillac El Dorado, Deville, STS, SLS.

Mercedes Benz Models 107,123, 124, 126, 129, 140, 163, 164, 170, 201, 202, 203, 208, 209, 210, 211, 215, 219, 220, 221 and 463.

**No. 5945** – Air bag release tool kit. Wt., 2 lbs.



4711

### Deluxe Radio and Antenna Service Kit

- Eleven-piece kit in molded case.
- Universal antenna wrench.
- Ford radio removal tool.
- Deep sockets to remove and install the tamper-proof radio nuts from many GM, Chrysler, and other aftermarket radios.
- Antenna nut sockets cover most import and domestic antenna nuts.

**No. 4711** – Radio and antenna kit. Wt., 1 lbs., 13 oz.



4712

### Euro Radio Removal Tool Kit

- Includes the popular tools needed to remove the radio from the dash on the following European vehicles: BMW, VW, Audi, and Mercedes-Benz.
- Easily removes the radio without damaging the radio or the dash panel.

**No. 4712** – Euro radio removal tool kit. Wt., 13 oz.



4715

### Deluxe European Radio Tool Set

- 18-piece set of tools used to remove radios on most European vehicles sold in the U.S. and Europe.
- Quickly and easily removes the radio from the dash without damage to the radio or dash.

#### Replacement Parts

Part No.	Description	Application
4715-1	Removal Keys (4 pieces)	Audi, Becker, Mercedes-Benz, VW
4715-2	Removal Keys (2 pieces)	Becker, Mercedes-Benz, Porsche
4715-3	Removal Keys (2 pieces)	VW
4715-4	Removal Keys (2 pieces)	Skoda
4715-5	Removal Keys (2 pieces)	Becker
4715-6	Pentagon Wrench	BMW
4715-7	Bent U-hook (2 pieces)	Blaupunkt
4715-8	U-hook (2 pieces)	Audi, Blaupunkt, Ford, Grundig, VW
4715-9	Allen Hex Wrench	BMW, Opel

**No. 4715** – Deluxe European radio tool set. Wt., 1 lbs., 3 oz.



Similar to  
SA9148B

7827

### Saturn Window Glass Socket

This specially designed socket enables you to easily remove the tricky fasteners that Saturn uses to hold window glass to the regulator in its car doors. Our tool won't cause the damage that often results from makeshift methods.

- For use on 1991 to current models.
- Accommodates a 3/8" drive ratchet and extension.

**No. 7827** – Saturn window glass socket. Wt., 3 oz.

### Mercedes-Benz Dashboard Service Tool Kit

- 8-piece tool kit contains:
- (2) removal tools for ignition lock on model W126.
- (2) removal tools for ignition locks on models W124 & W201.
- (2) removal hooks for instrument cluster on models W107, W116, W123, W124, W126, W140, and W201.
- (2) radio removal tools on models W129, W140, W202, and W210.
- Covers virtually all Mercedes-Benz models since 1992.

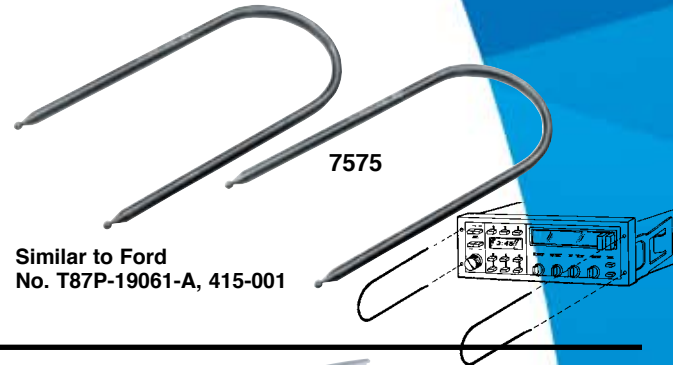
**No. 6711** – Mercedes-Benz dashboard service tool kit. Wt., 10 oz.



### Ford Radio Removal Tool Kit

These dual-purpose tools release the retaining clips of a radio faceplate so you can pull the radio from the instrument panel. For use on 1987 to current Mustang; 1988 and newer Tempo/Topaz; 1989 to current Lincoln Continental; 1990 to current Taurus/Sable, Ranger/Bronco II, Probe, Lincoln Town Car, Mark VII, Crown Victoria/ Grand Marquis, Thunderbird/ Cougar, F-series pickups and E-series vans; 1991 to current Explorer; 1995 to 2003 Windstar.

**No. 7575** – Ford radio removal tool kit. Wt., 2 oz.



### Hose Pinch-off Pliers Set (3 piece)

- Shuts off flow through vacuum, fuel, and coolant lines, etc.
- Cocking ratchet mechanism holds pivoting jaws tightly in place. Heavy-duty swivel jaws pivot to ensure parallel pinching.
- These three tools are available separately:
  - No. 4510-8** – 8" tool for small hoses and tight areas
  - No. 4510-10** – 10" tool for radiator and vacuum lines
  - No. 4510-12** – 12" tool for radiator and vacuum lines

**No. 4510** – Set of three pinch-off pliers. Wt., 2 lbs., 11 oz.



### Hose Cutter – “Guillotine”

- Hooks and cuts plastic lines and rubber hoses from 1/8" to 1" diameter. Simply hook hose in V-shaped end, and squeeze handle to cut. Compound mechanical leverage provides power. Spring-loaded blade returns to open position after use, so blade is not exposed.
- Linear design hook reaches and cuts hoses in tight areas.
- Replacement steel cutter blade No. 4511-1 is available.

**No. 4511** – Hose cutter tool. Wt., 8 oz.

**No. 4511-1** – Replacement blades. Wt., 2 oz..



### Straight-Blade Hose Cutter

- Cuts rubber hoses ranging from 1/4" to 1-1/2".
- Simply place hose in tool and squeeze handle to cut.
- Replacement steel cutter blade No. 4509-1 is available.

**No. 4509** – Straight blade hose cutter. Wt., 5 oz.



### Rubber Hose Pinch-off Pliers

These pliers keep rubber fuel and water lines clamped tightly when you're servicing engine components. The grip pads provide a damage-free method of shutting off flow without having to drain the hoses. Pivoting jaws and locking ratchet provide a tight grip in just about any position.

**No. 7655** – Hose pinch-off pliers. Wt., 13 oz.



# GENERAL PURPOSE TOOLS

## Pliers, Crimpers & Puller



4493

### Angle-Tip Relay Pliers

- Designed to remove and install relays, which are usually located in confined, hard-to-reach areas.
- Specially coated tips offer a solid grip on the relay.

**No. 4493** – Angle-tip relay pliers. Wt., 10 oz.



4497

### Ratcheting Terminal Crimper

- Heavy-gauge steel crimping tool designed for insulated wire terminals.
- Ratcheting action crimps terminal to correct tightness on the wire, making crimping fast and easy.
- For wire sizes: AWG 22–18 (0.6 mm–1.0 mm) red terminal; AWG 16–14 (1.3 mm–1.6 mm) blue terminal; AWG 12–10 (2.0 mm–2.6 mm) yellow terminal.
- Insulated handles with compound mechanical leverage for power.

**No. 4497** – Ratcheting terminal crimper. Wt., 1 lb., 3 oz.



4498

### 7-in-1 Wire Stripper and Crimper

- Strips insulation off electrical wires ranging from 10 AWG–22 AWG (0.6mm–2.6mm) in diameter. Pliers on tip of jaw for looping or grabbing wire in tight places.
- Heat-treated steel jaws cut solid or multi-strand wire.
- Screw cutter shears screws clean, with no thread clean-up required. Works on machine screw sizes 4-40, 5-40, 6-32, 8-32, 10-24, and 10-32.
- Crimps insulated and non-insulated wire terminals, 7mm–8mm spark plug wire connectors.

**No. 4498** – 7-in-1 wire stripper and crimper. Wt., 8 oz.



4499

### Wire Stripper and Cutter

- Only 6" in length. Clean size separations and markings allow ease of use in tight areas.
- Strips insulation off of electrical wires ranging from 10 AWG–22 AWG (0.6mm–2.6mm) in diameter. Heat-treated steel construction with durable grips.
- Spring-loaded jaws stay open for ease of use, and lock for storage; gripping area at tip of jaws for working in tight areas; wire cutter at base of jaws.

**No. 4499** – Wire stripper and cutter. Wt., 5 oz.



4611

### Battery Terminal Puller

- Designed to remove the battery cable clamp from the post without causing damage to the battery.
- Spring-loaded sharp jaws get under the clamp for a secure grip.

**No. 4611** – Battery terminal puller. Wt., 14 oz.

### 3-Way Battery Post Cleaner

- Steel blades quickly clean top-post battery terminals and cable clamps; cleaners are marked “positive” and “negative.”
- Ream is tapered to clean both positive and negative battery cable clamps.

**No. 4612** – 3-Way battery post cleaner. Wt., 6 oz.



### Battery Pliers

- Serrated jaws firmly grip the battery terminal nut or bolt.
- Offset handles allow access in hard-to-reach areas.
- Works on both top-post and side-post battery terminals.

**No. 4613** – Battery pliers. Wt., 10 oz.

4613



### Side Terminal Battery Wrench

- Designed for use on GM side-terminal batteries, or any 5/16" hex head battery bolt.
- 5/16", 6 point, box end, 5-1/2" long, ratcheting wrench; insulated handle.

**No. 4614** – Side-terminal battery wrench. Wt., 5 oz.



4614

### Long-Side Terminal Battery Wrench

- Designed for use on GM side-terminal batteries, or any 5/16" hex head battery bolt.
- Long handle allows access to hard-to-reach battery terminal bolts.
- 5/16", 6 point, box end, 10" long, ratcheting wrench; insulated handle.

**No. 4615** – Long-side terminal battery wrench. Wt., 8 oz.



4615

### Battery Terminal Wrench – 10mm

- Designed for use on 10 mm battery terminal bolts found on many import and domestic vehicles.
- 10 mm, 12 pt., box-end ratcheting wrench; 5-1/2" long with insulated handle.

**No. 4616** – Battery terminal wrench - 10 mm. Wt., 3 oz.



4616

### Side Terminal Battery Brush

- Designed to clean corrosion from side post batteries.
- One brush used to clean battery terminals; other brush used to clean battery cable ends.
- Plastic handle resists battery acid.

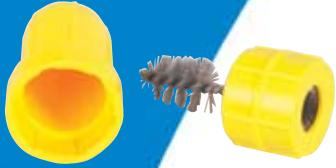
**No. 4617** – Side terminal battery brush. Wt., 3 oz.



4617

# GENERAL PURPOSE TOOLS

## Battery Service



4618

### Battery Brush

- Cleans dirt and corrosion from positive and negative battery posts and cable clamps.
- Plastic case resists battery acid and most cleaning solvents.

**No. 4618** – Battery brush. Wt., 3 oz.



4620

### Battery Carrier

- Use to lift and install most top post and side terminal batteries.
- Designed to transfer lifting force to a secure hold on the battery; teeth on jaws offer a secure grip.
- Vinyl strap resists battery acid and will not conduct electricity.

**No. 4620** – Battery carrier. Wt., 14 oz.



4619

### Professional Battery Hydrometer

- Displays a battery's specific gravity on an easy-to-read float; scale ranges from 1.100 to 1.300.
- Thermometer indicates what must be added or subtracted from the float reading to arrive at an accurate specific gravity reading for each battery cell.
- Flexible tip offers easy access to the battery cells while the battery is still in the vehicle.

**No. 4619** – Professional battery hydrometer. Wt., 6 oz.



4621

### Two-Liter Battery Filler

- Replenish battery water the easy way! The fill nozzle on this container has an automatic shut-off that prevents overfilling; the handle on the side of the container makes the job a snap. Container holds up to two liters of distilled water.

**No. 4621** – Two-liter battery filler. Wt., 1 lb.



4622

### Battery Cable Cutter

- Designed to cut copper battery cable and aluminum electrical cable. **IMPORTANT:** Do not cut steel cable; damage to blades will occur.
- Precision-ground cutting blades provide a clean, square cut.
- 7" long handle gives extra leverage when cutting thick cable.

**No. 4622** – Battery cable cutter. Wt., 1 lb. 2 oz.



4689

### Ford Headlamp Alignment Tool

- Use to adjust aerodynamic headlamps with rear mounted adjuster on Fords.
- 4 mm hex with one-way roller clutch for precise adjustments.
- Long, ratcheting handle for easy access.

**No. 4689** – Ford headlamp alignment tool. Wt., 7 oz.



### Ford Mirror Removal Tool

Save shop labor time and cost by allowing mirror to be removed without damaging or removing the mirror assembly.

#### Works on these outside door mirrors:

- 1997–2002 Windstar
- 1998–2004 Crown Vic, Grand Marq, Marauder, Taurus, Sable, Mustang, Town Car
- 1999–2004 Ranger, Excursion, Super Crew (F-250–F-550), F-650, F-750
- 2001–2004 Escape
- 2002–2004 Thunderbird
- 1996–2004 Explorer
- 1997–2004 Mountaineer
- 1998–2004 Expedition, Navigator, F-150
- 1999–2004 E-Series van
- 2000–2004 LS
- 2001–2004 Explorer Sport, Explorer Sport Trac
- 2003–2004 Aviator
- 1999–2004 Dual arm mirror used on Excursion, Super Crew (F-250–F-550), F-650, F-750
- Also works on 1999 and newer Ford interior / rearview mirrors that have the detachable (screwless) mount.



**No. 8200** – Ford mirror removal tool. Wt., 4 oz.

### Gland Nut Wrench

This wrench is fully adjustable to fit hydraulic cylinders on vehicles having gland nuts from 1" to 3-3/4" in diameter. It also reverses to work on either 1/4" or 7/32" pinholes.

- Accommodates a 1/2" drive ratchet.

**No. 7463** – Gland nut wrench. Wt., 10 oz.

**No. 215128** – Replacement pin. Wt., 1 oz.



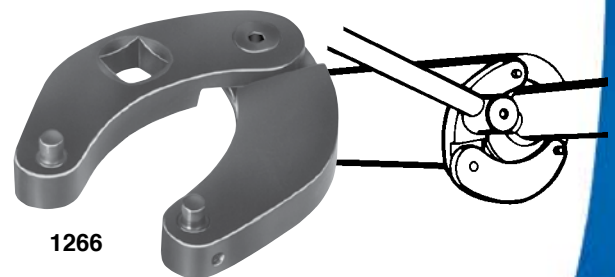
### Adjustable Gland Nut Wrench

Here's a wrench designed to fit hydraulic cylinders on most farm and construction equipment. It fits gland nuts from 2" to 6" diameter pin to pin. And it's reversible to fit 1/4" and 5/16" diameter pinholes.

- Accommodates a 3/4" drive ratchet or breaker bar.

**No. 1266** – Adjustable gland nut wrench. Wt., 2 lbs., 3 oz.

**No. 204928** – Replacement pin. Wt., 1 oz.



### Euro Door Handle Kit

• This kit contains the tools needed to service most door hinges and door handles on Audi, Mercedes-Benz, Porsche, and Volkswagen vehicles.

• Kit includes: A ratchet wrench with three 12-point bits (4 mm, 8 mm, 10 mm), one T40 and one T45 TORX® bit; a T30 TORX® long handled driver; and a T20 TORX® T-handle driver.

• T30 driver, 14" long; T20 driver, 9-1/2" long; hex ratchet, 9-1/2" long.

**No. 6785** – Euro door handle kit. Wt., 15 oz.



6785

# GENERAL PURPOSE TOOLS

## Punch & Misc. Tools



### Spot Weld Cutter Set

- Use with electric drill or air drill to cut 5/16" and 3/8" spot welds.
- Cutter bits have cutting teeth on each end.
- Replacement kit No. 4485-1 consists of (3) 5/16" cutter bits; (3) 3/8" cutter bits; and (4) centering tips.

**No. 4485** – Spot weld cutter set. Wt., 5 oz.



### Exhaust Hanger Pliers

Many cars and trucks have rubber blocks supporting their exhaust system hanger brackets. These pliers will enable you to quickly and easily remove those push-through brackets from their hangers. These pliers feature a two-position slip joint for use on many sizes of hanger blocks.

**No. 7677** – Exhaust hanger pliers. Wt., 1 lb., 5 oz.



### Universal C-Frame Nut Splitter

- Forged and heat-treated frame with offset handle works where ordinary nut splitters may fail. Smooth action cracks nuts without damaging bolt threads.
- Chisel rotates to line up parallel to bolt. Splits non-heat-treated nuts of 7/16" (11 mm) through 3/4" (19 mm) diameter. Tool is 6-3/4" in length.

**No. 4576** – Universal C-frame nut splitter. Wt., 1 lb., 8 oz.



### Punch and Chisel Set (16 piece)

- Durable set of heat-treated chrome vanadium steel punches and chisels. Storage tray included.

Contents of set, available separately:

- 3 – Cold chisels (with gauge): 3/8" x 5-1/2"; 1/2" x 6"; 5/8" x 6-1/2"
- 2 – Center punches: 1/8" x 5"; 3/16" x 6"
- 5 – Pin punches: 3/32" x 4-1/4"; 1/8" x 4-3/4"; 5/32" x 5"; 3/16" x 5-1/4"; 1/4" x 5-3/4"
- 5 – Taper punches: 3/32" x 5-1/4"; 1/8" x 5-3/4"; 5/32" x 6"; 3/16" x 6-1/4"; 1/4" x 6-3/4"
- 1 – Chisel gauge

**No. 4600** – Punch and chisel set (16 piece). Wt., 2 lbs., 11 oz.



### Brass Punch Set (2 piece)

- Two large, brass non-sparking punches. Ideal for use near precision parts or in locations where sparks from ferrous metal could be hazardous.
- Includes an 8" punch (5/8" hex, tapered to 3/8") and 10" straight punch (3/4" dia., chamfered at both ends).

**No. 4602** – Brass punch set. Wt., 2 lbs., 3 oz.

# GENERAL PURPOSE TOOLS

## Chisel & Punch Sets, Steering Wheel Holder

### Steering Wheel Holder & Pedal Depressor Kit



- This kit has two applications: 1) holds steering wheel in position for alignment adjustments, and 2) depresses brake pedal for various brake checks, including brake lamp operation.
- Rod easily slides in actuator for fast, easy installation of tool on brake pedal or steering wheel. Simply hand squeeze the actuator to accomplish fine adjustments.
- Kit includes: actuator assembly; extension rod for actuator (use when depressing brake pedal); hook assembly (hooks on steering wheel when depressing brake pedal or holding steering wheel); and flat pad (rests on front seal when holding steering wheel).

**No. 4546** – Steering wheel holder and pedal depressor kit.  
Wt., 5 lbs., 2 oz.

**4546-1** – Handle and Rod. Wt., 2 lbs.

**4546-2** – Steering wheel and pedal holder.  
Wt., 2 lbs., 3 oz.



### Interchangeable Punch and Chisel Set



- Handle allows easy grip and protects hand from being hit by hammer.
- 12 punches and chisels:
  - 1 cape chisel: 1/4" wide blade
  - 5 flat chisels: 1/2", 5/8", 3/4", 7/8", and 1" wide blades
  - 2 taper punches: 1/8" and 1/4" diameter
  - 2 pin punches: 3/16" and 1/4" diameter
  - 2 center punches: 1/8" and 3/16" diameter
- Double-locking ball detent holds punch or chisel securely in the driver handle.

**No. 4605** – Interchangeable punch and chisel set.  
Wt., 4 lbs., 7 oz.



### Interchangeable Autobody Forming and Punch Kit



Includes:

- 4605-1** – Drive handle
- 4756-1** – Small curve tool
- 4756-2** – Cross curve tool
- 4756-3** – Rounded ball-peen tool
- 4756-4** – One-sided flat blade tool
- 4756-5** – Curve blade tool
- 4756-6** – Pointed ball-peen tool
- 4756-7** – Angle face tool
- 4756-8** – Flat blade tool
- 4756-9** – Square face tool
- 4756-10** – Angle groove tool
- 4756-11** – Round face tool

**No. 4756** – Interchangeable autobody forming and punch kit.  
Wt., 4 lbs., 13 oz.



# GENERAL PURPOSE TOOLS

## Drivers & Misc. Tools



4608

### Impact Drivers

- Loosens hard-to-turn screws, bolts or nuts.
- Handle design prevents possibility of hitting hand with hammer when striking impact driver.
- Bit holder has 3/8" drive (No. 4608), 1/2" (No. 4607) drive, and 5/16" hex for Phillips and flat screwdriver bits.
- Includes eight screwdriver bits:
  - No. 2 Phillips bit, 1-3/8" long with 5/16" hex
  - No. 2 Phillips bit, 3-1/8" long with 5/16" hex
  - No. 3 Phillips bit, 1-3/8" long with 5/16" hex
  - No. 3 Phillips bit, 3-1/8" long with 5/16" hex
  - 5/16" wide x 1-3/8" long with 5/16" hex slotted bit
  - 5/16" wide x 3-1/8" long with 5/16" hex slotted bit
  - 3/8" wide x 1-3/8" long with 5/16" hex slotted bit
  - 3/8" wide x 3-1/8" long with 5/16" hex slotted bit

**No. 4607** – 1/2" impact driver. Wt., 2 lbs., 4 oz.

**No. 4608** – 3/8" impact driver. Wt., 2 lbs., 4 oz.

4606



### Brass Hammer and Punch Set

- Brass-head hammer and punches are ideal to use where sparks from ferrous metals would be hazardous, or where precision metal parts could be damaged by steel tools.
- Hammer head weighs 24 oz.; brass drift punch is 10" x 3/4" diameter; brass tapered punch is 8" x 5/8" hex tapered to 3/8" diameter point.

**No. 4606** – Brass hammer and punch set.

Wt., 4 lbs., 2 oz.



4489

### Trim Fastener and Molding Removal Set

- Set includes five different sizes and styles of tools that allow easy removal of trim fasteners, moldings, and wheel hubs.
- Tools are made of plastic to prevent damage to trim, moldings, alloy wheels, or vehicle paint.
- Can be used on trim fasteners and moldings inside, or outside, the vehicle.

**No. 4489** – Trim fastener and molding removal set. Wt., 13 oz.

### Mercedes-Benz Molding Removal Kit

- 3-piece kit designed to save time for the shop when servicing M-B vehicle interiors.
- Works on/in virtually all Mercedes-Benz.
- No. 6789 along with the No. 4489 set cover most vehicle interiors on the road today.

**No. 6789** – Mercedes-Benz molding removal kit. Wt., 12 oz.



6789

### 5-Piece E-Clip Tool Set

- Dual operation tool: one end of tool releases e-clip; other end of tool installs e-clip.
- Tools fit four sizes of e-clips: 6 mm, 7 mm, 8 mm, and 9 mm.
- Each tool easily locks into handle provided.

**No. 4492** – 5-piece E-clip tool set. Wt., 10 oz.



### Door Panel & Upholstery Tool Set

Heavy-duty door panel and upholstery tools:

**No. 4549-1** – removes window and door handle clips, and upholstery tucking.

**No. 4549-2** – V-notched door panel clip removal tool.

**No. 4549-3** – U-notched door panel clip removal tool.

**No. 4549** – Door panel and upholstery tool set – 3-piece. Wt., 1 lb.



### Small Door Panel & Upholstery Tool Set

Heavy-duty tools with stainless steel blades used for removing small door panels and upholstery clips:

**No. 4551-1** – U-notched tool

**No. 4551-2** – V-notched tool

**No. 4551** – Small door panel and upholstery tool set. Wt., 8 oz.



### Putty Knife Set

Heavy-duty stainless steel, precision ground, and polished. Blades taper at tip to provide great flexibility and blade action. Ergonomic, two-component plastic handles provide a non-slip grip.

- Packaged in a storage tray. Includes three flexible blade knives: 1-1/4", 2", and 3".

**No. 4552-1** – Large putty knife.

**No. 4552-2** – Medium putty knife.

**No. 4552-3** – Small putty knife.

**No. 4552** – Putty knife set. Wt., 13 oz.



### Scraper Set

Scrapers feature polished, heat-treated, stiff, stainless steel blades. Handles are ergonomic two-component plastic and feature a non-slip grip and steel bolstered end.

- Packaged in a storage tray. Includes: 1-1/4" straight blade, 1-1/4" bent blade, and 2" straight blade.

**No. 4550-1** – Medium scraper.

**No. 4550-2** – Small scraper.

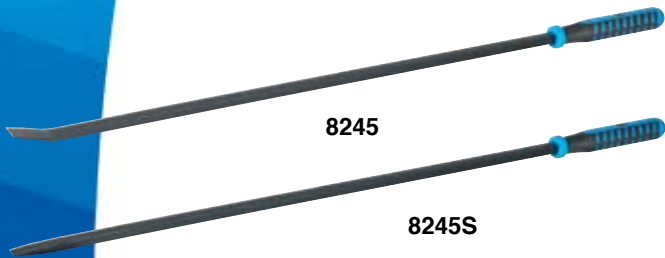
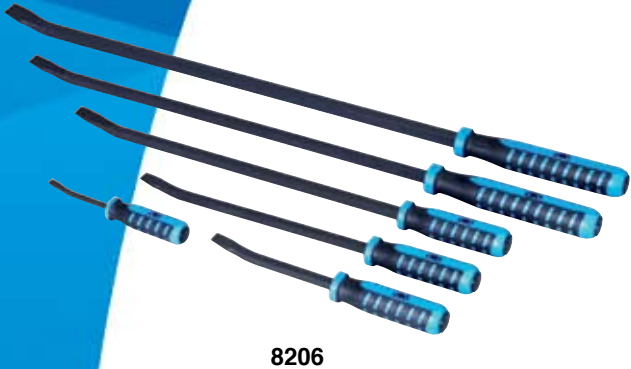
**No. 4550-3** – Angled scraper.

**No. 4550** – Scraper set. Wt., 1 lb., 2 oz.



# GENERAL PURPOSE TOOLS

## Prying Tools



### Handled Pry Bars

Finally, a heavy-duty pry bar made of tempered square steel that you can hit without damaging the handle.

- Black chrome striking cap allows hitting the bar without damage to the handle.
- Ergonomic handle – dual durometer composite handle for user comfort; reduces hand fatigue.
- Polished tip with black oxide finish.
- Long-life finish resists rust and wear during use.
- OTC Marathon Lifetime Warranty.



**No. 8203** – 3-piece handled pry bar set in gray molded tray. Includes 12", 18", and 24" sizes. Wt., 3 lbs.

**No. 8206** – 6-piece handled pry bar set in gray molded tray. Includes 8", 12", 18", 24", 32" and 36" sizes. Wt., 6 lbs., 10 oz.

**No. 8208** – 8" handled pry bar. Wt., 8 oz.

**No. 8212** – 12" handled pry bar. Wt., 10 oz.

**No. 8218** – 18" handled pry bar. Wt., 1 lb.

**No. 8224** – 24" handled pry bar. Wt., 1 lbs., 4 oz.

**No. 8232** – 32" handled pry bar. Wt., 1 lbs., 12 oz.

**No. 8236** – 36" handled pry bar. Wt., 2 lbs., 2 oz.

**No. 8245** – 45" handled pry bar. Wt., 5 lbs.

**No. 8245S** – 45" handled pry bar with straight blade. Wt., 5 lbs.

### Jimmy Bars

We've forged these bars from chrome alloy steel, then heat-treated them to resist bending and breaking.

**No. 7166** – 5/8" diameter, 18" long. Wt., 1 lb., 8 oz.

**No. 7167** – 3/4" diameter, 24" long. Wt., 2 lbs., 10 oz.

**No. 7168** – 7/8" diameter, 30" long. Wt., 4 lbs., 7 oz.

**No. 7420** – 7/8" diameter, 46" long. Wt., 8 lbs.

**No. 7421** – 1" diameter, 54" long. Wt., 11 lbs., 3 oz.



# GENERAL PURPOSE TOOLS

## Pry Bars, Picks and Magnets

### Rolling Head Pry Bars

You'll have a lot of leverage using one of these rolling head pry bars. The long, tapered body will also serve as an aligning drift.

- No. 7162 – Pry bar; 6" long. Wt., 3 oz.
- No. 7163 – Pry bar; 12" long. Wt., 10 oz.
- No. 7164 – Pry bar; 16" long. Wt., 1 lb., 8 oz.
- No. 7165 – Pry bar; 18" long. Wt., 2 lbs., 7 oz.



### Pry Pac

Three pry bars in one economical pack. You get 12" and 18" rolling head pry bars and a 24" jimmy bar.

- Heat-treated chrome alloy steel.
- No. 7171 – Pry pac. Wt., 6 lbs., 13 oz.



7171

### Mini Pick and Hook Set – 4-Piece

- Sturdy stainless steel points and shafts designed for marking, removing o-rings, accessing snap rings, and performing other tasks. Assorted angle tips allow you to reach awkward locations.
- Knurled shaft design enhances finger control for delicate jobs.

No. 4515 – Mini pick and hook set. Wt., 5 oz.



4515

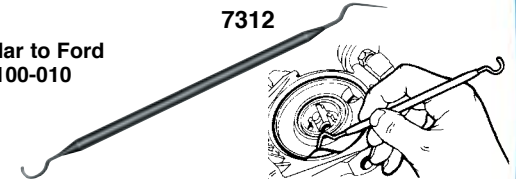
### O-Ring / Oil Seal Pick

Here's an extremely handy tool that makes quick work of oil seal and o-ring removal and installation.

No. 7312 – O-ring/oil seal pick. Wt., 2 oz.

Similar to Ford  
No. 100-010

7312



### O-Ring / Oil Seal Pick Set

Fishing a stubborn o-ring or oil seal out of its seat is easy if you have this pair of picks in your toolbox.

No. 7103 – O-ring/oil seal pick set. Wt., 7 oz.



7103

### Mirror and Magnet Set

- Handles telescope from 6-1/2" to 25". Swivel heads allow access to tight areas.
- Large, rectangular swivel mirror is 2" x 3-1/2", and is attached to one telescoping handle; small mirror is 1-1/4" in diameter, and is interchangeable with magnets on the other handle.
- Magnets can lift up to 8 lbs.

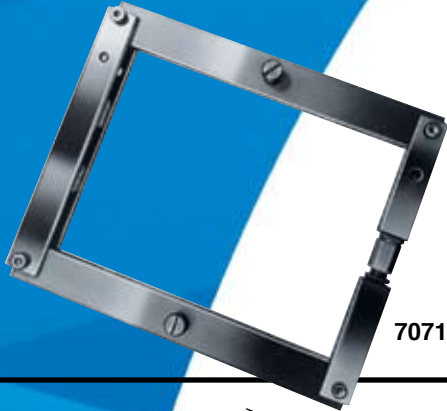
No. 4650 – Mirror and magnet set. Wt., 13 oz.



4650

# GENERAL PURPOSE TOOLS

## Misc. Tools

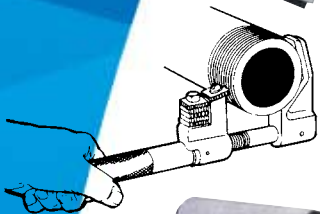
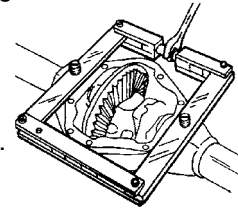


7071

### Differential Housing Spreader

Here's a tool that eases the job of removing or installing differential ring-gear assemblies on Dana axle models 30 through 70. It's a heavy-duty device using mechanical screw power to spread the housing. It helps prevent the component damage that often results from the use of homemade devices.

**No. 7071** – Differential housing spreader. Wt., 34 lbs.



7402

### Universal Outside Thread Chaser

Damaged bolt or nut threads can be an annoying, costly problem—unless you have one of our thread chasers. It will quickly restore threads to near original condition without the use of expensive thread-cutting equipment.

- Replaceable V-pads and dies.
- 1-1/4" to 5" O.D.

**No. 7402** – Thread chaser with 6 dies: threads per inch - 4, 5, 6, 7, 7-1/2, 8, 9, 10, 11, 11-1/2, 12, 14, 16, 18, 20, and 24. Wt., 2 lbs., 13 oz.

**No. 216884** – Standard die set. Includes 6 dies, in the sizes listed above. Wt., 3 oz.

**No. 202817** – Metric die set. Includes three dies: 1 mm-1.25 mm-1.5 mm-1.75 mm, 2 mm-2.5 mm-3.0 mm-3.5 mm; 4 mm pitch dies. Wt., 3 oz.

**No. 206803** – V-pad. Wt., 10 oz.



OTC No.	Size	Fits Set Screws	Fits HH Cap Screws
7345*	1/16"	6	—
7346*	5/64"	8	—
7347*	3/32"	10 & 12	—
7348*	1/8"	1/4"	8
7349*	5/32"	5/16"	10
7350*	3/16"	3/8"	1/4"
7351*	7/32"	7/16"	5/16"
7352*	1/4"	1/2"	3/8"
7353*	5/16"	5/8"	3/8" & 7/16"
7354*	3/8"	3/4"	1/2"
7355†	7/16"	13/16"	9/16"
7356†	1/2"	7/8"	5/8"
7357†	9/16"	1" & 1-1/8"	3/4"
7358†	5/8"	1-1/4" & 1-3/8"	1"
7359†	3/4"	1-1/2"	1-1/8" & 1-1/4"
7360†	1"	1-3/4" & 2"	1-1/2"

\* Included in No. 7365 set.

† Available separately; not included in set.



7365

### Hex Key Wrenches

Allen head cap screws are everywhere, which makes a set of these wrenches a necessity.

- They're extra long for added leverage and accessibility.
- Meets ANSI specs.

**No. 7365** – Plastic pouch containing wrench Nos. 7345 through 7354. Wt., 15 oz.

7334



OTC No.	Size (mm)
7321*	1.5
7322*	2
7323*	2.5
7324*	3
7325*	4
7326*	5
7327*	6
7328*	8
7329*	10
7330†	12
7331†	14
7332†	17
7333†	19

\* Included in No. 7334 set.

† Available separately; not included in set.

### Metric Hex Key Wrench Set

These long-arm hex key wrenches provide added leverage and accessibility.

- Rust-resistant black oxide finish.
- There are 9 sizes, from 1.5 mm to 10 mm.
- Available separately: 12 mm, 14 mm, 17 mm, and 19 mm.

**No. 7334** – Metric hex key set in plastic pouch. Sizes: 1.5 mm, 2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, and 10 mm. Wt., 15 oz.



### Windshield Wiper Puller

- Removes wiper arms on many foreign and domestic cars and light trucks.
- Will not damage wiper arm or hood cowling during removal.
- Simply place puller feet under wiper arm and tighten forcing screw against wiper shaft.

**No. 4676** – Windshield wiper puller. Wt., 4 oz.



4676

### Metric/SAE T-Handle Motorcycle Kit

- 7-piece metric tool kit with ball point and hex key ends for motorcycles, autos, and diesel trucks contains adapters: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm, and one driver handle/holder.
- 7-piece standard tool kit with ball point and hex key ends for motorcycles, autos, and diesel trucks contains adapters: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", and one driver handle/holder.
- Combines low-torque handle with key storage!

**No. 4710** – Metric/SAE T-handle motorcycle kit. Wt., 15 oz.

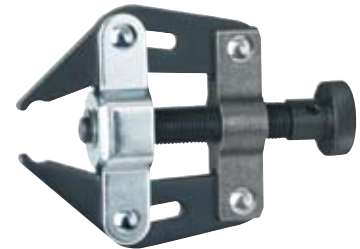


4710

### Motorcycle / ATV Chain Tension Puller

- Tool is designed to work on drive chains found on motorcycles and all-terrain vehicles (ATVs). Fits the following size chains: 428, 520, 525, 528, and 530.
- Tool jaws fit in chain link ends. Tightening the forcing screw pulls the jaws together to hold the chain for easy removal or installation of the chain connector or master link.

**No. 4758** – Motorcycle/ATV chain tension puller. Wt., 13 oz.

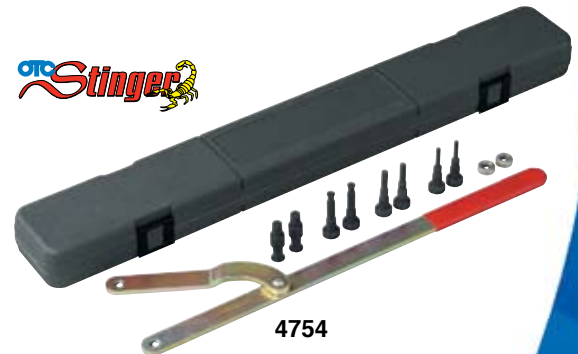


4758

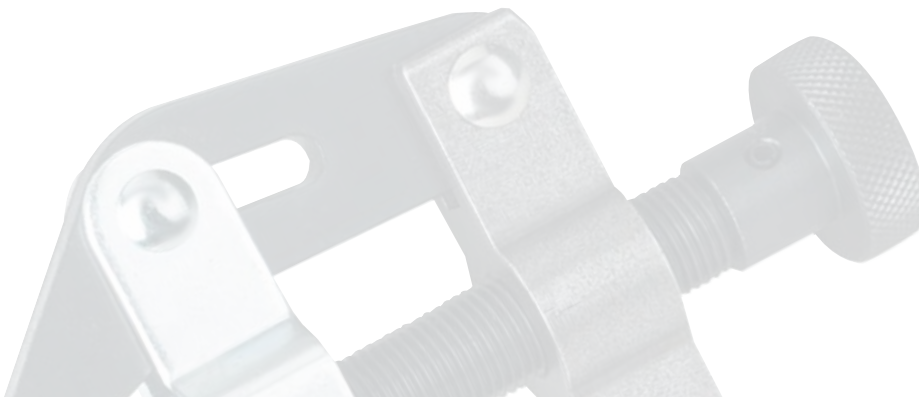
### Universal Pulley Holder

- Universal design fits many different size pulleys having slots or holes, such as camshaft pulleys or crankshaft pulleys.
- Wrench is adjustable from 1-1/2" to 8-5/8"; four different size step pins are interchangeable.
- Long handle enables technician to easily hold the pulley when tightening or loosening retaining bolts.

**No. 4754** – Universal pulley holder. Wt., 4 lbs., 15 oz.



4754



# GENERAL PURPOSE TOOLS

## Pullers & Wrenches



6676

### Heavy-Duty Wiper Arm Puller

- Designed to remove aluminum wiper arm from the steel stud that often galvanizes, locking the arm and stud together.
- Investment cast design is strong, easier to use, and saves time.
- Live center and more precise alignment save labor. Works on these and many other vehicles: Jeep Liberty, Grand Cherokee, Dodge Caravan, Stratus, Ram Diesels, Dakota & PT Cruiser, Chrysler LHS, Town & Country, Saturn Vue Buick Rendevous, Cadillac CTS, Ford Focus, Ford Windstar, Honda Civic, Odyssey Toyota Camry.

**No. 6676** – Heavy-duty wiper arm puller. Wt., 12 oz.



6613

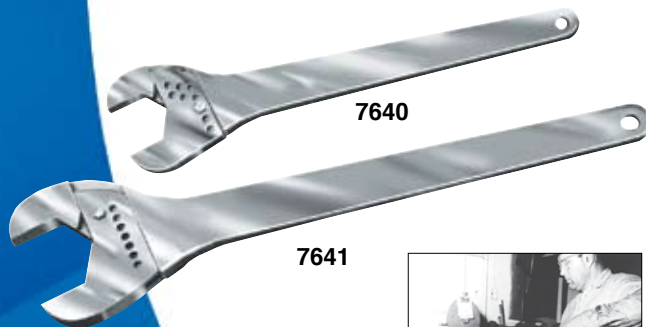
### Variable Pin Spanner Wrench

- Universal design fits many different types of pulleys having slots or holes, including camshaft pulleys and crankshaft pulleys.
- Wrench is adjustable from 1-1/4 inch to 5 inches; works with a 1/2 inch ratchet or breaker bar.

Replacement Parts:

- No. 526908-1** – 3.5 mm pin
- No. 526908-2** – 4 mm pin
- No. 526908-3** – 4.5 mm pin
- No. 526908-4** – 5 mm pin
- No. 526908-5** – 6 mm pin
- No. 526908-6** – 7 mm pin
- No. 526908-7** – 10 mm pin
- No. 526908-8** – Handle

**No. 6613** – Variable pin spanner wrench. Wt., 2 lbs.



7640

7641



Fed. Spec.: GG-W-631B

### Giant Adjustable Wrenches

The really big jobs call for really big tools. These wrenches will handle 42 bolt sizes from 1-3/8" to 4-3/4". Together, both wrenches weigh just 41 lbs., but can replace over 1,000 lbs. of fixed-size wrenches.

**No. 7640** – Giant adjustable wrench. Rated to withstand 2,000 ft. lbs. of torque. Wt., 10 lbs. 10 oz.

**No. 7641** – Giant adjustable wrench. Rated to withstand 5,000 ft. lbs. of torque. Wt., 30 lbs. 5 oz.

Order No.	Nut / Bolt Size	Increments of Jaw Adjustment	Lgth.	Head Thickness	Wt. (lbs.)
7640	1-3/8" to 2-7/8"	1/8"	24"	7/8"	10.6
7641	2-3/4" to 4-3/4"	1/8"	36"	1-1/8"	30.3

# GENERAL PURPOSE TOOLS

## Spanner Wrenches & Stud Remover

### Adjustable Spanner Wrench

This tool is Ideal for adjusting pillow block bearings. It also works well on International model "M" water pumps and on all International power-takeoff units.

- This wrench adjusts from 1/2" to 2-3/4".

**No. 7246** – Adjustable spanner wrench. 9-1/4" long. Wt., 11 oz.



### Adjustable Hook Spanner Wrench

Here's a tool that's needed wherever turret adjusting nuts or packing gland nuts are used.

- Capacity is 1-1/2" to 4".
- Handle is 24" long, 11/16" diameter.

**No. 885** – Adjustable hook spanner wrench. Wt., 3 lbs., 2 oz.

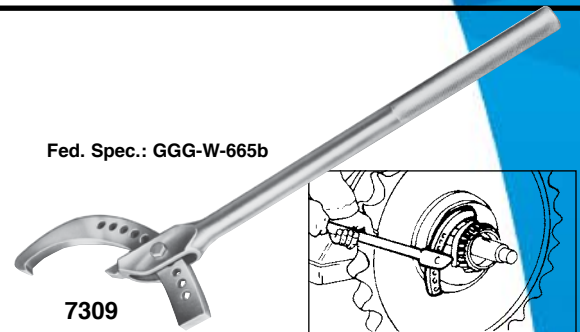


### Heavy-Duty Adjustable Hook Spanner Wrench

Some jobs require beefier tools. Here's a wrench to fill that need. It's drop-forged and features extra heavy construction and a 3/4" thick, 11-position hook jaw that's capable of gripping fasteners from 4-3/4" to 12-3/4" O.D.

- Handle is 25-3/4" long and 15/16" in diameter.

**No. 7309** – Heavy-duty adjustable hook spanner wrench. Wt., 13 lbs., 7 oz.



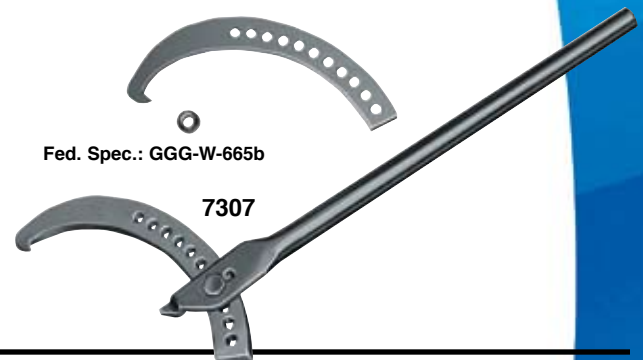
### Adjustable Hook Spanner Wrenches

These pieces will replace many fixed-size wrenches needed to service industrial tractors and other equipment. Their drop-forged jaws adjust to 11 positions for a capacity of 4-3/4" to 12-3/4" O.D.

- Handle is 24" long and 1" in diameter.

**No. 7307** – Spanner wrench with one 3/8" thick jaw. Wt., 5 lbs., 15 oz.

**No. 7308** – Spanner wrench with two interchangeable jaws: one 3/8" thick, one 3/4" thick. Wt., 11 lbs., 7 oz.



### Stud Remover Sets

These metric and SAE, 4-piece, stud remover sets offer the best professional extractors available. Designed and tested to reach studs in difficult work areas.

- Housed in a blow-molded storage case.

**No. 6986-1** – 1/4" stud remover    **No. 6986-2** – 5/16" stud remover

**No. 6986-3** – 3/8" stud remover    **No. 6986-4** – 7/16" stud remover

**No. 6986** – SAE stud remover set. 3/8" drive for 1/4" and 5/16" stud sizes, and 1/2" drive for 3/8" and 7/16" stud sizes. Wt., 1 lb., 2 oz.

**No. 6987-6** – 6 mm stud remover

**No. 6987-8** – 8 mm stud remover

**No. 6987-10** – 10 mm stud remover

**No. 6987-12** – 12 mm stud remover

**No. 6987** – Metric stud remover set. 3/8" drive for 6 mm and 8 mm stud sizes, and 1/2" drive for 10 mm & 12 mm stud sizes. Wt., 1 lb., 2 oz.



6987

# GENERAL PURPOSE TOOLS

## Drivers & Pullers



4507

### Bearing Race and Seal Driver Set (10 piece)

- This aluminum constructed set permits installation of tapered bearing races and seals without damage to the component or housing.
- Tapered side of driver is used to install races. Invert the driver to the flat side to install seals.
- Set is housed in a blow-molded plastic storage case.
- Includes driver handle with bolt, plus these tool sizes: 1.565", 1.750", 1.965", 2.325", 2.470", 2.555", 2.830", 2.995", and 3.180".

**No. 4507** – Bearing race and seal driver set (10 piece).  
Wt., 4 lbs., 2 oz.

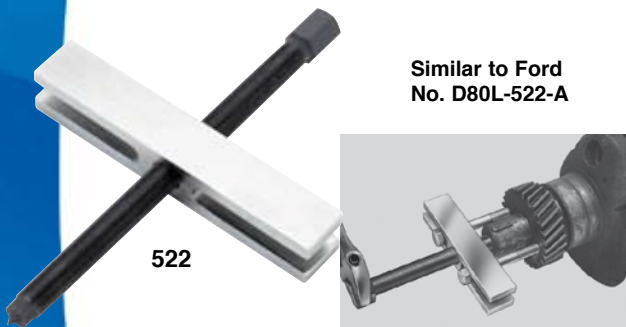


4407

### Metric Bushing Driver Set

- 14-piece tool kit for motorcycles, Asian and European vehicles contains adapters: 10-12 mm, 14-16 mm, 15-17 mm, 16-18 mm, 18-20 mm, 20-22 mm, 22-24 mm, 25-27 mm, 28-30 mm, 30-34 mm, 32-36 mm, 35-40 mm, 38-42 mm; one small driver handle; one medium driver handle; one large driver handle.
- Aluminum construction won't mar the bushing or affect bushing tolerance, which is critical for efficient operation of the engine, transmission, and hubs.

**No. 4407** – Metric bushing driver set. Wt., 2 lbs.



Similar to Ford  
No. D80L-522-A

522

### Large Gear and Pulley Puller

Using this tool, you can easily remove a wide range of gears, pulleys, or other parts that have tapped holes.

- The puller will spread from 2" to 7-3/4". Its block is 8-1/4" wide, and its forcing screw is 3/4"-16 x 11-5/8" long.
- Accommodates any cap screws up to 1/2" diameter.

**No. 522** – Large gear and pulley puller. Wt., 4 lbs., 8 oz.



7393

7392

### Gear and Pulley Pullers

These tools are perfect for removing timing gears, fan pulleys, harmonic balancers, and many other parts having tapped holes.

- Each puller will spread from 1-1/2" to 4-1/4". The puller blocks are 4-7/8" wide.
- Both include two hex head cap screws, 3/8"-16 x 3" long.

**No. 7392** – Puller with 13" long screw.  
Wt., 2 lbs., 4 oz.

**No. 7393** – Puller with 5-1/2" long screw.  
Wt., 1 lb., 8 oz.