

# MUSCLE TOOLS

Electronic Diagnostics | Special Tools | Shop Equipment | A/C Tools

Q4 2019 Edition

OTC ROBINAIR actron BOSCH

## PROMOTIONS

All promotions valid 7/1/2019 - 12/31/2019, unless otherwise stated. Some restrictions may apply. For promotion details and to redeem, visit [Boschrebates.com](http://Boschrebates.com). Dated proof of purchase and/or serial number(s) required when registering for rebate. Must redeem within 30 days of promotion end date.

### Free protective dust cover with purchase of a 34988NI or AC1234-6 A/C machine



34988NI

#### Keep your investment protected

34988NI premium A/C recovery machine is fully automatic and includes automatic oil and dye injection.

- › The most efficient A/C machines available, for both recovery and charging accuracy



AC1234-6

AC1234-6 was the first commercially available recovery machine to meet the SAE's standards for recovering, recycling and recharging 1234YF systems

- › Integrated refrigerant identifier and printer for documenting system service



17499 dust cover

**\$75 value**

### Free 3914 battery tester or 3980 multimeter with diagnostic subscription renewal

Extend your hardware warranty, receive up to 6 new software downloads each year and receive a free Bluetooth capable battery/starting/charging system tester or hybrid multimeter.



#### 3893-LTW

Encore 1-year subscription and Lifetime hardware warranty

#### 3896-LTW

Evolve 1-year subscription and Lifetime hardware warranty



3914

3980

**FREE 3914 or 3980**

### Free 7503 tie rod/ball joint tool with purchase of 6530 ball joint kit

The ultimate suspension tool combination. Remove & install most ball joints and tie rod ends in less time. Covered by OTC's lifetime warranty. Ball joint tool compatible with all OTC ball joint adapters.



6530



**FREE 7503**

### Free adapter with purchase of 5019A 2,200-lb low-lift transmission jack

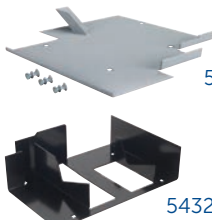
Get the most out of your trans jack with the right adapter. Select one of 6 popular adapters designed to handle multiple powertrain components.



5019A



5091



540231

543284



528150

553516



540232

## Diagnose, research, and repair - all-in-one

Now with  
Repair-Source

Engineered and assembled in the USA by Bosch.  
The ADS series is designed by technicians, for technicians,  
to **diagnose, research and repair vehicle issues.**



ADS 325

ADS 625

### Repair-Source

#### Repair-Source

ADS tools now come with Bosch Repair-Source, a comprehensive vehicle service and repair information library.

- ▶ Connect the diagnosis with vital technical information needed for repair – for the specific vehicle make, model and year you are working on.
- ▶ Repair information included with standard subscription
- ▶ Access to vehicle service and repair information including DTC troubleshooting workflows, repair procedures, maintenance schedules, TSBs, OE wiring diagrams, component locations, labor times and more

#### Coverage

Continually updated and enhanced coverage for Domestic, Asian and European brands. Recent software updates included a huge European vehicle coverage release for BMW, Volkswagen, Audi and Mercedes-Benz vehicles, with new coverage also added for GM, Ford, Chrysler and Nissan vehicles.

#### Accessories

Compatible with many wireless borescopes, battery testers, NVH analyzers and more

**Ask your tool dealer about Bosch Diagnostics  
or visit [boschdiagnostics.com](http://boschdiagnostics.com)**

### The tools

#### ADS 325

- ▶ 7" ultra-crisp, high-resolution display
- ▶ 5MP rear camera enables sharing photos and Vehicle Scan Reports
- ▶ Complete diagnostic needs with Auto ID, read/clear DTCs and DTC types from all controllers, data PIDS, bidirectional controls, calibrations, resets and relearns.
- ▶ Android 5.0 plus 64GB SSD for fast processing, printing and file sharing
- ▶ Built-in Wi-Fi and Firefox for full browsing capabilities
- ▶ Lifetime Warranty with an active, unexpired diagnostics subscription
- ▶ Tablet, AC power adapter and OBD II cable with light and voltmeter

#### ADS 625

All the features of the ADS 325, plus:

- ▶ Industry-leading full color OE system wiring diagrams
- ▶ Wireless VCI and dual WiFi cards for strong web and VCI connection
- ▶ J2534 pass-thru VCI for OE programming capabilities
- ▶ Large 10" ultra-crisp high-resolution display
- ▶ Dual 5MP front and rear cameras
- ▶ HDMI output for extended display
- ▶ Docking and charging station included

## Unbeatable coverage for HD trucks, construction equipment and more



**New & Improved Windows 10 Touchscreen tablet**

### Increase Shop Efficiency with the Bosch ESI[truck]

DPF regeneration, component actuation, special tests and automatic module identification for Class 4-8 trucks and more.

#### 3824A

##### Truck, engine, and system coverage

- ▶ **Truck brands:** Freightliner, International, Kenworth, Mack, Volvo, Peterbilt, Sterling, Western Star, and more
- ▶ **Engine brands:** PACCAR, Perkins, Detroit Diesel-MBE, Mack, Navistar, Caterpillar, Deutz, MTU, and more
- ▶ **System coverage:** transmissions, brake systems, trailer ABS, exhaust treatment, and more

##### Expert-level diagnostics

- ▶ Automatic vehicle ID
- ▶ Fault code reading, reporting, clearing
- ▶ Diesel particulate filter (DPF) regeneration
- ▶ Cylinder cut-out
- ▶ Injector coding and trim files
- ▶ Key component actuations
- ▶ Special tests
- ▶ Vehicle parameter modifications



#### 3824-08R

##### Troubleshooting & Repair Subscription

- ▶ Faster, more efficient heavy duty vehicle repairs
- ▶ 13,000+ procedures guide user through each step to troubleshoot vehicle issues
- ▶ Procedures by DTCs or by vehicle symptoms
- ▶ Technical Service Bulletins (TSBs) included

### ESI[truck] Off-Highway Upgrade Cable Kit with Introductory Software License (3824CBL-UPG)

Add off-highway vehicle and machinery coverage for multiple manufacturers to your 3824 or 3824A ESI[truck] scan tool. Coverage included for:

- Construction equipment
  - Agricultural vehicles
  - Stationary engines
  - Street sweepers and more
- ▶ **Manufacturer coverage:** Caterpillar, John Deere, Kubota, Perkins, Volvo, Massey Ferguson, SISU, Deutz, Deutz-Fahr, MTU, and more
  - ▶ **System coverage:** Gearbox, HVAC, engine, steering, hydraulic systems, suspension, electronic modules, antipollution, central computer and more
  - ▶ **Diagnostic coverage:** Manual processes, diagnosis info, measurable values, component actuations, ECU data, parameter IDs (PIDs), calibrations and resets, system technical data, wiring diagrams, vehicle technical data and vehicle maintenance info

#### 3824CBL-UPG

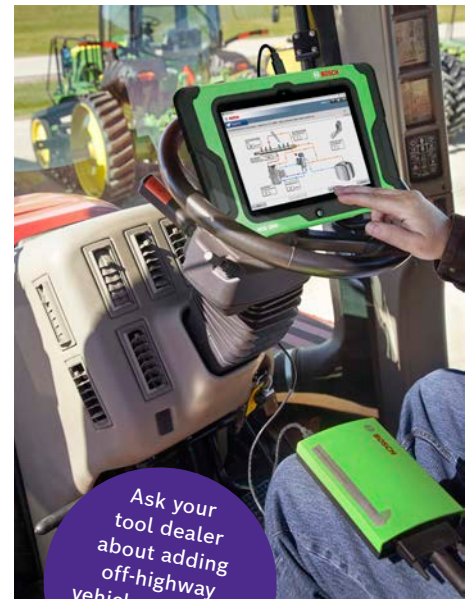
##### Kit contents:

- ▶ 10 cables for machinery, construction equipment, agricultural vehicles and more
- ▶ ESI[truck] off-highway software package with full diagnostic capabilities. Introductory off-highway software expires when your ESI[truck] heavy duty truck software expires
- ▶ Software renewals can be done simultaneously, ensuring continuous HD truck and off-highway vehicle coverage

#### 3824-080HW

##### ESI[truck] Off-Highway 1-Year Software License

- ▶ 12-months of off-highway diagnostic coverage, including all coverage updates
- ▶ Used to renew initial software included with Off-highway upgrade cable kit with introductory software license



Ask your tool dealer about adding off-highway vehicle coverage to your ESI[truck]

**NEW**



**NEW**



**For more information on software updates and off-highway coverage upgrades, visit [www.BoschDiagnostics.com/Pro](http://www.BoschDiagnostics.com/Pro)**

Off-highway cable upgrade kit and off-highway software only compatible with 3824A, 3824 and 3824BSC ESI[truck] diagnostic tools. Not compatible with 3823 or 3823BSC diagnostic tools. Customer must first purchase Off-highway upgrade cable kit with introductory software (3824CBL-UPG) prior to purchasing or activating Off-highway 1-year software license (3824-080HW)

## HDS 250 Heavy-Duty Scan Tool for Class 4-8 Vehicles

Ideal for heavy-duty shops as a second diagnostic tool and mobile repair trucks.

Cost-effective solution for aftermarket shops in need of heavy-duty coverage

1699200240

### HDS 250 Features

- ▶ Brilliant Color Display
- ▶ Rugged enclosure for durability
- ▶ Class 4 – Class 8 truck coverage featuring “Automatic Protocol Search”
- ▶ HD J1587 / J1708 and J1939 CAN, Engine, Transmission/ABS coverage and more
- ▶ Global OBD II Quick Test
- ▶ Works on 12V and 24V systems
- ▶ Gasoline and diesel engine coverage
- ▶ Read and clear diagnostic trouble codes
- ▶ Live vehicle data includes
  - Engine speed
  - Engine ECU temperature
  - Percent acceleration pedal position
  - Engine intercooler temperature
  - Engine coolant temperature
  - Battery voltage
  - Alternator voltage output
  - Ambient air temperature
  - Air inlet temperature
- ▶ On-screen definitions of diagnostic trouble codes



### HDS 250 Includes

HD Scan tool, 9 Pin Deutsch Cable, 6 Pin Deutsch Cable, 16 Pin HD/OBD II Cable, USB Cable, Quick Start Guide, Carrying Case and 1-Year Warranty.

## Bosch BAT 135 Battery tester with integrated printer

### Features:

- ▶ Tests 6V, 12V batteries and 12V, 24V charging systems
- ▶ Test battery capacities from 40-2,000 CCA
- ▶ Test all automotive, light-duty and commercial batteries including:
  - AGM
  - Gel Cell
  - Flooded lead-acid
  - Start/Stop EFB
  - Commercial, SLI
- ▶ Presents State of Health and State of Charge percentage
- ▶ Integrated printer to capture test results and customer records
- ▶ Detachable test clamps for service and replacement
- ▶ Full charging system test with diode/ripple test
- ▶ Micro-load testing for proven, accurate results
- ▶ 1-year warranty



1699200244

## Bosch HPT 500 High Pressure Leak Tester



1699500000  
HPT 500



1699500001  
HPK 200 Accessory Kit for HD and Medium Duty Applications

The cost-effective, safe alternative for heavy-duty preventive maintenance and repair

Test heavy-duty exhaust systems safely and efficiently in 15 minutes or less

Troublesome **intake and exhaust leaks** are commonly diagnosed with **outdated and inefficient equipment and methods.**

These methods are time consuming, dirty, and frequently result in replacement of the wrong components. Low pressure testers, soapy water, and supersonic listening devices can cause revenue generating trucks to spend **unnecessary days in the repair facility, out of service.**

Bosch is addressing these problems with a **new, cost-effective, and safe alternative** that will change standard practices for heavy-duty preventive maintenance and repair. The **HPT 500** uses regular compressed air to reach and maintain a variable pressure of 2 to 20 psi throughout the vehicle's intake and exhaust system. Compressed air mixed with a **visual vapor is forced into the system**, simulating the load of a running engine: both naturally aspirated and forced induction (turbo and supercharged). **Many upstream leaks will only appear under these boosted pressures.** The dense, **highly visible vapor** flows throughout the truck's hoses, tubes and related components and **escapes anywhere there is a leak.**

Learn more at [boschdiagnostics.com/pro](http://boschdiagnostics.com/pro)



Saves

43-120 Min.

per vehicle



Average return on investment in just

4.63 Weeks



Decrease fuel consumption



Decrease downtime



Decrease diagnostic time



Increase safety



Increase uptime



### 3893 ENCORE

#### Fastest from code-to-fix

- ▶ OE-level Domestic / Asian / European Coverage
- ▶ 30 million on-tool fixes, maintenance tests and symptom assist
- ▶ Direct link to Identifix® and other repair forums
- ▶ Industry-leading light-duty diesel coverage
- ▶ 7" touch screen

Lifetime hardware warranty\*  
Engineered and assembled in the USA



### 3896 EVOLVE

#### All features of the OTC Encore plus

- ▶ OE system wiring diagrams, full color wiring diagrams for vehicles 1985 and newer
- ▶ Wireless, J2534 compliant VCI
- ▶ Dual-band Wi-Fi for secure connections to shop Wi-Fi and wireless VCI
- ▶ Android 5.0 with 1Ghz Quad Core Processor
- ▶ Front and rear-facing camera
- ▶ 10.4" hi-res touch screen

Lifetime hardware warranty\*  
Engineered and assembled in the USA

[www.OTCtools.com/fix](http://www.OTCtools.com/fix)

\*Lifetime warranty applies only to tool hardware as long as owner maintains an active diagnostics subscription. Details at otctools.com.

## TRIAGE TOOLS WITH CODECONNECT®

### EXPANDED EUROPEAN COVERAGE AND ABS DATASTREAM

Triage scan tools range from simple code readers to advanced diagnostic tools featuring live engine and ABS datastream, CodeConnect® and ABS & Airbag codes and definitions (including European vehicles). All scan tools will work with vehicles 1996 and newer, OBD II and CAN, with optional coverage for pre-1996 vehicles available.



**3208** OBD II & ABS Scan Tool  
**3209** OBD II ABS & Airbag Scan Tool  
**3210** CodeConnect® with ABS & Airbag  
**3211** OBD I & II Scan Tool

Product Comparison	3208	3209	3210	3211
OBD II & CAN compatible	•	•	•	•
(All 1996 and newer vehicles)	•	•	•	•
On-screen codes, definitions and emissions status	•	•	•	•
Erases codes and turns off the Check Engine Light	•	•	•	•
Live data and freeze frame data	•	•	•	•
ABS/Airbag (Most 1996-2013 GM, Ford, Chrysler, Honda, Hyundai, Nissan & Toyota)	ABS only	•	•	•
Manufacturer enhanced definitions	•	•	•	•
AutoID™ identifies vehicle being scanned	•	•	•	•
Color screen	•	•	•	•
Graphing live data	•	Dual PID	Dual PID	
Internet updateable	•	•	•	•
Multilingual menu & code definitions	•	•	•	•
Record and play back data	•	•	•	•
Battery / alternator / charging system monitor	•	•	•	•
OBD II Modes 1-A are supported including Mode 6 data	•	•	•	•
CodeConnect® over 26 million fixes	•	•	•	•
OBD II Ford on-demand tests	•	•	•	•
Oil light & battery reset	•	•	•	•
Expanded European engine, ABS and Airbag trouble code coverage	•	•	•	•
ABS live data and sensor reading	•	•	•	•
Steering and brake service resets	•	•	•	•
OBD I coverage (1984 – 1995 GM & Ford, 1989 – 1995 Chrysler & Toyota)	•	•	•	•

## SUBSCRIPTION SOFTWARE

Domestic, Asian and European Software 1-year subscription kit provides a year of frequent and valuable updates for new coverage, coverage enhancements, repair information, application improvements and includes the Diagnostics for Life\* lifetime hardware warranty.

Diagnostics for Life\* lifetime hardware warranty means OTC supports your Encore/ Evolve for as long as you own it, as long as you update it!

The "hardware warranty" applies to the scan tool tablet only. Accessories, such as cables, adapters, batteries and case remain the 90 Day factory warranty from purchase.

### 3893-LTW

Encore 1-year subscription and Lifetime hardware warranty



### 3896-LTW

Evolve 1-year subscription and Lifetime hardware warranty



Evolve update includes full access to full color, full-system wiring diagrams for vehicles 1985 and newer.

### OTC Electrical Service Tools



#### 4484 Weather Pack Ratcheting Crimper Kit

Now you can manage environmentally sealed connection systems on your vehicle with the OTC 4484 Weather Pack Crimper Kit. Weather Pack connection systems are designed to protect against exposure to heat, moisture, and contaminants with unfaltering performance. The OTC 4484 comes with 2 interchangeable crimping dies, covering wire range AWG 22 / 20-18 (DIN: 0.35 / 0.5-0.8 mm<sup>2</sup>) and AWG 16-14 / 12 (Din: 1.0-2.0 / 3.0 mm<sup>2</sup>). The dies are easily interchanged - simply slip into place and are magnetically secure. The inside lid decal shows how the Weather Pack crimp is properly made. These connections can be found on automobiles, Class 7-8 Tractors, Motorcycles - just about everywhere.



#### 4497A 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.



#### 2497 3 Piece Push Pin/Body Clip Pliers Set

Remove plastic body fasteners and clips faster in nearly any location. A set of three push pin / body clip pliers includes straight, 45° and 90° jaws to reach in wheel wells, under bumpers and behind the dash to remove retaining clips. The various jaw angles help access hard-to-reach places while providing maximum leverage to remove clips quickly and without damage. The unique design lifts the center pin and pulls body clips without damaging anchors, eliminating the need to provide replacement clips. Reusing these fasteners saves money and time searching for replacements of various shapes and sizes. The 3-piece set comes with an OTC lifetime warranty against defects in material or workmanship.

#### 4470 Butane-Power Flameless MicroTorch

- Cordless 650° (1250°F) flameless heat.
- Refillable fuel cell uses standard butane lighter fluid (butane NOT included).



#### 4472 Cordless Solder Tool Kit

Includes: Soldering iron, conical tip 2.4 mm, chisel tip 2.4 mm, hot knife tip, deflector tip, sponge, wrench, and soldering wire.



#### 4460 2-Piece Electrical Connector Separator Tool



#### 4461 Terminal Release Tool Set



#### 1/4" & 3/8" Cable Cutters

4476 1/4" cable cutter.



4477 3/8" cable cutter.



#### 4467 Automatic Wire Stripper

- Comes with adjustable depth gauge (8mm to 12mm).

#### 4468 9" Self Adjusting Wire Stripper

- Strips insulating sheathing from wires ranging from 10 ga. to 22 ga.



#### 4462 Wire Loom Threading Kit

The 4462 Wire Loom Threading Kit from OTC is a clever grouping of wire fishing tools for the automotive technician. Whether general wiring R&R - or adding Gauge Packs, Sound Systems, Vehicle Security and Camera Systems, these tools simplify placing the wiring within the protection of existing wiring looms, without cutting tape or zip ties and without damage to other wires.

There are 3 wire pulling tools in 15", 10" and 5.5" lengths for common automotive applications, the grommet insertion tool allows the wire to be captured within the tool to hold once it is placed, placed so you can grab from the opposite side of the firewall - and the pigtail tool assists when building a new harness on the workbench.

#### 5912 Crimpwell™ Angled Crimping Pliers

- Universal crimping design accommodates soft wire - solid or stranded - 10-22 AWG.
- Cutting feature included for quicker preparation.
- 9" (228mm) in length, with protective grips to increase leverage and secure crimp.



#### 5950A CrimPro™ 4-in-1 Angled Wire Tool

- Compact 7-inch design.
- Gripping nose.
- Crimper, 12-20 AWG insulated & non-insulated wire.
- Stripper - strips 12-20 AWG wire.
- Cutter - ability to make cuts both above & below pivot.



#### 5950S CrimPro™ 4-in-1 Wire Tool

- Compact 7-inch design.
- Gripping nose.
- Crimper, 12-20 AWG insulated & non-insulated wire.
- Stripper - strips 12-20 AWG wire.
- Cutter - ability to make cuts both above & below pivot.



#### 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.



#### 4813 Heat Shrink Tubing Set (171 Piece)

Protection and insulation for solder connections and components. 2 to 1 shrink ratio with flame or heat gun.



#### 4814 Waterproof Heat Shrink Tubing Set (106 Piece)

Waterproof protection and insulation on solder connections and components. Adhesive lined inner wall to seal out moisture. 3 to 1 shrink ratio with flame or heat gun.



### 6982PMC

#### Exhaust Manifold Stud Remover

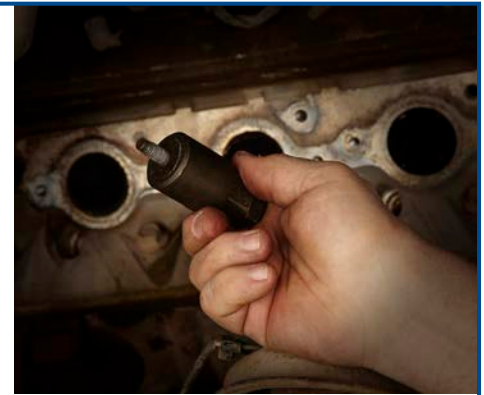
This specialty stud remover is designed to work in very tight spaces, securely grasping broken studs with as little as 1/4" of exposed material. Perfect for exhaust manifold studs - even when frozen or corroded. A variety of locking collets are included for common applications.

- Designed to securely grasp studs with as little as 1/4" exposed
- Compact - gets behind steering and suspension components
- Draws tight - within 1/16" of head surface to greatly reduce tipping
- Includes 4 collet sizes - 6mm, 7mm, 8mm, and 10mm
- Perfect for broken manifold studs
- Lifetime warranty

#### Kit Contents:

- 1 Collet Holder and Forcing Screw Assembly
- 4 Collets (6mm, 7mm, 8mm, 10mm)
- Operating instructions

**NEW**



Grips studs as small as 1/4"



### 6982DGS

#### Drilling Guide System

- Drill perfectly centered holes in broken studs.
- Anchor rail guide on any open hole within reach of broken stud - 6 inch reach.
- 4 bushings for common stud sizes - 6mm, 8mm, 10mm, and 12mm.
- 4 drilling guides for progressive drilling - 1/16", 3/32", 1/8" and 5/32".
- Conveniently stores in vinyl pouch - includes instructions.
- Made in USA with a Lifetime Warranty.



### 6982DEX

#### 3 Pc Double Edge Screw Extractors

- For unscrewing broken bolts and screws without damaging threads.
- Can be turned in clockwise or counter clockwise direction for right and left handed threads.
- Drive extractor into drill hole for secure fit.
- Hex shank design works with standard hex sockets eliminating rounded corners.
- Industrial Quality - Made from High Strength Steel - Tapered Flute design.

**6982DEX-1** Dual Edge Screw Extractor (#10 - 1/4")

**6982DEX-2** Dual Edge Screw Extractor (5/16" - 3/8")

**6982DEX-3** Dual Edge Screw Extractor (7/16" - 1/2")



### 6982ACP

#### Automatic Center Punch

- Accurately marks your drill point every time.
- Creates deep center mark to prevent drill bit from wandering.
- Flared top fits comfortably in palm of hand.
- Allows free hand to place marking tip exactly where you want it.
- Press tool until spring releases causing tip to mark your drilling point.

- 6982DGS-1** 4-Pc Bushing Set
- 6982DGS-2** 4-Pc Guide Set
- 6982DGS-3** Replacement Rail

**NEW**



### 6792

#### Transmission Fluid Fill/Extract Kit with Adapters

Designed for undercar transmission fluid service

- 6-liter reservoir can dispense or extract transmission fluid with simple control valve
- Dual safety valves prevent accidental reverse flow
- Includes universal adapter and 14 OE-style adapters
- Press-on quick connect and disconnect fittings make setup faster and easier
- Instructions embedded to inside of storage case help ensure proper and safe operation

**Cap Adapters NOT REQUIRED**



### 6977

#### Universal Cooling System Pressure Test Kit

A truly universal vehicle cooling system pressure tester kit.

- Fits cooling system hoses from 1/4" to 5/8"
- Fewer adapters can test more systems and test faster
- Hand pump features large gauge and padded base to protect vehicle surfaces from scratching
- 36" hose with quick-coupler adapter securely grips high-quality brass fittings
- Includes radiator cap with quick-connect for older vehicles
- Adapters use Schrader valves to prevent spray when disconnecting
- 1/4", 5/16", 1/2" and 5/8" adapters with Schrader valves
- Blow molded storage case
- Covered by OTC's Lifetime Warranty.



Connects to degas bottle to test caps, hoses and system pressure for leaks

**NEW**

### OTC fuel injection kits

#### 7448A Canister-type Fuel Injector Cleaner

Simply and completely clean a vehicle's fuel system with the 7448A Fuel Injector Cleaner.

With the addition of a quick-connect fitting, the removable hose can be thoroughly cleaned for storage and extending the life of the product. An included blowout fitting adapts to shop air supply to remove residual cleaner from hose lines.



Fuel Injection Application Manual covers vehicles from 1997 – 2013.



#### 6550 Master Fuel Injection Kit

Test fuel injection systems on most GMs, including GM TBI, Ford, Chrysler, and Jeep vehicles. Also works on imports, including CIS and CISE fuel systems.

- 0–100 PSI fuel pressure gauge.
- 35 of the popular OTC fuel injection adapters, each equipped with a quick-connect Schrader valve.
- '97 – '13 Fuel Injection Service Application Manual.
- Replacement seal kit also included.



#### 4480 Basic Fuel Injection Service Kit

- Performs running, residual, rail and flow rate pressure tests.
- Kit includes adapters, hoses and fittings to test fuel injection systems.
- Kit includes two popular adapters for import vehicles as well as the GM TBI adapter.
- Professional dual scale gauge reads 0–100 PSI and 0–700 kPa with relief valve, fuel discharge hose and rubber boot.
- Packaged in blow molded carrying case.



#### 6554 Fuel / AC Line Disconnect Kit

- Topside disconnects for AC and Fuel lines.
- Clips, disc, and scissor styles for broad applications.
- Hi-visibility line plugs included.



#### 7000A Pro Inject-R Kleen Fluid

Clean fuel injectors mean cleaner running, more efficient engines – and lower emissions. This fluid restores injectors' original spray pattern, helps prevent recurring problems, and reduces intake and port deposits.

- No mixing; use right from the can.
- Pro Inject-R Kleen fluid. Case of 12 16-oz. cans.



#### 6599 Fuel Tank Lock Ring Wrench

Universal design allows tool to fit fuel tank lock rings on Ford, Chrysler, and GM vehicles with gas engines.

- Works on: 2004–newer Ford F-150 trucks; 2004–newer Chrysler / Dodge minivans, PT Cruiser, Dakota, and Durango; 2004–newer Chevy 1/2-ton and 3/4-ton trucks; and 2005–newer Jeep vehicles.
- Tool easily removes and installs lock ring on the fuel tank when servicing the fuel pump or fuel sending unit.
- Used with a 1/2" drive ratchet or breaker bar.



#### 4437 8-Piece Sensor Socket Set

- 29 mm Vacuum Switch and O2 Socket, 1/2" Drive.
- 7/8" Vacuum Switch and O2 Socket (wide slot), 3/8" Drive.
- 27 mm Thermal Sensor Switch, 1/2" Drive.
- 7/8" Vacuum Switch and O2 Socket (narrow slot), 3/8" Drive.
- 1-1/16" and 1" Oil Pressure Sending Unit Socket, 3/8" Drive.
- 7/8" O2 Sensor Socket, offset 1/2" Drive.
- 7/8" O2 Sensor Socket (low profile), offset 3/8" Drive.
- 1-1/16" and 1" Oil Pressure Socket (short access), 3/8" Drive



#### 4411 Ratcheting Hose / PVC Cutter Standard and Heavy Duty

- Features metal frame and rubber padded ergonomic handles for high leverage and comfort.
- Compound ratcheting action provides maximum cutting power.
- Will also cut cable and wires.
- Cuts hose and PVC up to 1-3/8" dia.



#### 6703 Line Fluid Stopper Kit

- Stop messy fluid leaks and prevent contamination during service.
- Kit seals all types of rubber and steel line found on fuel, brakes, AC, power steering and transmission system.
- Includes two banjo style fitting stoppers, two steel line stoppers, six line plugs, a line disconnect tool, and a long reach line pinch-off tool for hard-to-reach hoses.

#### 6579 Transmission Disconnect (2 pack)

- Designed to disconnect transmission lines on Ford Taurus/Explorer 2005 and newer.
- Similar to OE p/n 307-569.





5889

### Rocker Arm Shaft Socket

This deep-well 12mm socket is used to torque the rocker arm nut to OE specification and has a stepped outside diameter for proper clearance and access to the fastener. Features a stepped outside diameter for proper clearance and access to the fastener. Applications include Detroit Diesel Series 60 engines. Similar to J-44706.



5879

### Poppet Disassembly Tool

Disassembly socket for poppet valves with 2-prong spanner style end. Applications include Detroit Diesel engines. Similar to J-36452-B.



5875

### Cylinder Liner Remover

This puller is used to remove cylinder liners. The metal cylinder body expands out to the cylinder liner when the expander nut is tightened. The liner is then pulled when the bridge nut is tightened. Both the expander and bridge nuts include a thrust bearing for friction free operation. A convenient handle can then be used to lift the liner from the cylinder block and also provides a convenient way to transport the liner. Fits cylinder I.D. ranges from 5.0" to 5.75". Applications include Detroit Diesel Series 60 12.7L with EGR, 14L with EGR and MTU S2000. Similar to J-45876.

5872

### Compression Gauge

Designed to measure compression within heavy duty engines. Hose has push button release valve, and hose end has a quick coupler for connection to compression adapters. Includes M style quick coupler fittings and 45 degree adapter. Dual gauge range; 0-1150 psi and 0-8000 kPa. Hose length; 12 in. Applications include Detroit Diesel Series 60 and two cycle 53, 71, 92, and 149. Similar to J-6692-B.



5887

### Crankshaft Seal and Wear Sleeve

This tool installs the front and rear crankshaft wear sleeves and seals. It eliminates lip flare on the wear sleeve and installs the seal properly. For use on Detroit Diesel Series 60 and two cycle 92 engines. Similar to J-35686-B.



## Detroit Diesel Tools



5884

### Cam Gear Retaining Tool

This tool is used to properly hold the cam gear stationary while removing/installing the cam gear retaining bolt without damage. The tool installs into the gear case, engaging one of the lightening holes in the camshaft drive gear. Use two of the access cover bolts to secure the tool to the gear case. For use on Detroit Diesel Series 60. Similar to J-35652-B.



5874

### Cylinder Liner Installer

This tool is designed to install cylinder liners into engine block. Attaches to engine with three cylinder head bolts, the drive screw and plate then force the liner into position. For use on Detroit Diesel Series 60. Similar to J-35597-A.



5876

### Injector Remover

A specially designed puller to remove seated injectors from the cylinder heads of Detroit Diesel Series 60 inline 6 engines. A thrust bearing under the puller nut reduces friction during operation for smooth, easy injector removal. Similar to J-47372.



6492-10

### Oil Priming Adapter

This adapter allows for proper engine pre-lubing, preventing dry starts after engine service. The adapter installs into the oil priming port in the oil module. For use with the engine oil primer p/n 6492. For use on Detroit Diesel DD13 and DD15 engines. Similar to J-49181.

5870

### Injector Height Gauge Set

Injector height gauges are used to properly set injector body height to the injector follower for proper fuel injector timing. Incorrect injector timing can cause engine power issues, poor idle quality and fuel mileage issues. For use Detroit Diesel Two cycle 53, Two cycle 71, Two cycle 92, Series 60, and DDEC IV Engines. Similar to J-1853, J-42749, J-45002, J-39697, J-42665, J-1242, J-35637-A.

#### Injector height gauges:

5870-1	1.460" (37.08 mm)	5870-5	3.161" (80.29 mm)
5870-2	1.484" (37.69 mm)	5870-6	3.199" (81.25 mm)
5870-3	3.078" (78.18 mm)	5870-7	3.232" (82.09 mm)
5870-4	3.102" (78.79 mm)		



5868

### Fuel System Test Gauge

Used to properly diagnose and repair fuel systems. Applications include Detroit Diesel DD13 and DD15 engines. Similar to J-48876.



5881

### Cam Gear Alignment Fixture

This tool pulls the cam drive gear hub and thrust plate forward for camshaft and/or thrust plate seal removal and installation. For use on Detroit Diesel Series 60 engines. Similar to J-35906 and J-35906-6A.



### 4605 Interchangeable Punch and Chisel Set

- Safety protective handle allows easy grip and protects hand from being hit by hammer.
- 12 punches and chisels included: 5 flat chisels: 1/2", 5/8", 3/4", 7/8", and 1" wide blades 1 cape chisel: 1/4" wide blade 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. Replacement parts available:

- 4605-1 Drive handle
- 4605-2 1/2" wide flat chisel
- 4605-3 5/8" wide flat chisel
- 4605-4 3/4" wide flat chisel
- 4605-5 7/8" wide flat chisel
- 4605-6 1" wide flat chisel
- 4605-7 1/4" cape chisel
- 4605-8 1/8" taper punch
- 4605-9 1/4" taper punch
- 4605-10 3/16" pin punch
- 4605-11 1/4" pin punch
- 4605-12 1/8" center punch
- 4605-13 3/16" center punch



### 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

- 4607 1/2" Impact Driver.
- 4608 3/8" Impact Driver.



### 4406 Adjustable Bearing Race and Seal Driver

- Universal and fully adjustable.
- Twist head to adjustable from 3/4" to 3.5" (19mm to 89mm).
- Lock bolt holds jaws to preferred diameter.
- Steel striking cap mounted on aluminum handle and head provides a weight under 2 lbs.



### 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.



### 4408 Bearing Race and Seal Driver Kit

- The Bearing Race and Seal Driver Kit provides a convenient way to smoothly and quickly position a bearing in the inner hole of an axle.
- The kit includes a handle grip and six heavy-duty bearing drivers. The drivers have different diameters in order to match different-sized bearings, and three of the drivers are formed with two different diameters.
- Bearing Driver Sizes:
  - 1.555" (39.5 mm) 1.752" (44.5 mm)
  - 1.968" (50.0 mm) 2.322" (59.0 mm)
  - 2.48" (63.0 mm) 2.559" (65.0 mm)
  - 2.834" (72.0 mm) 2.992" (76.0 mm)
  - 3.189" (81.0 mm)



### 4410 Master Bushing Drive Set (33 piece Metric & Standard)

- Enables you to remove and install bushings ranging from 10mm to 42mm in diameter, and 3/8" to 1-3/8" in diameter, as used import cars, trucks, tractors, construction equipment, electric motors, and many other components having bushings.
- Includes large, medium, and small driver handles and adapters all made of steel.
- Housed in a blow-molded storage case.



### 4505 Bushing Driver Set, 19 piece

- Enables you to remove and install bushings ranging from 3/8" to 1-3/8" in diameter, as used in cars, trucks, tractors, construction equipment, electric motors, & many other components having bushings.
- Includes: Large, medium, and small driver handles with nuts; sixteen bushing adapters ranging from 3/8" to 1-3/8".
- Housed in a blow-molded storage case.



### 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".

### Ford Cam Tools

**6690**

#### Ford Master Cam Tool Kit

- Contains 40 tools to ensure correct cam timing when servicing timing belts, chains, head gaskets, or other valve train repairs.
- Covers L4, V6, V8, V10 engine with 2V, 3V, 4V valve configurations, model years 1991 – later.
- Application guide with diagrams and blow molded case included.



**6489**

#### Ford Cam Tool Kit

- Ensure proper cam timing when you replace a head gasket, replace a timing belt or chain, or complete any valve train repair.
- The 22 tools in this Master Kit covers 1992 through 2012 applications and comes in a molded storage case.

#### Service the following engines:

- 4.6L/5.4L/6.8L Modular; 3.8L V6
- 4.2L V6/5.0L V8; 3.0L Taurus
- Windstar; 4.0L V6 Aerostar
- Ranger and Explorer - 2.0L DOHC Zetec



**6487**

#### Ford Cam Tool Kit

Ford cam tool kit for 1992 thru 2012 4.6L, 5.4L V8, and 6.8L V10 engines. Contains tool Nos. 6476, 6477, 6009, 6020, and molded storage case.



**6488**

#### Ford Cam Tool Kit

Ford cam tool kit for 1997 thru 2011 4.0L Explorer/Mountaineer SOHC V6 engines. Kit contains tool Nos. 6478, 6479, 6480, 6481, 6482, 6484, 6485, and molded storage case.



**6498**

#### Ford 4.6L & 5.4L 4-Valve Cam Timing Kit

Saves time; all tools required for camshaft timing are in one kit.

#### Set Includes:

- 525216 – Camshaft positioning tool
- 525217 – Camshaft holding tool
- 6024 – Crankshaft positioning tool
- 525218 – Secondary chain tensioner tool

# HUB GRAPPLER™



### 6575-1

#### Hub Grappler™ Puller

- The new Hub Grappler Puller is specifically designed to apply maximum force with minimal effort from an impact gun to also minimize service time.
- The new jaws are designed and sized to properly fit hub applications and can be quickly located on the puller bar without the use of fasteners.
- The new 3/4" custom drive screw coupled with the special equalizer washer provides smooth operation while the proprietary heat treating extends its life 5-10 times longer than similar designs.

## CUT SERVICE TIME DRAMATICALLY

**Complete solution for servicing wheel hubs and bearings on the vehicle without removing the steering components or knuckle, eliminating unnecessary alignments or the use of a shop press.**

### 6575

#### Hub Grappler™ Kit

- Jaws designed and sized to properly fit hub applications and is quickly located on the puller bar without the use of fasteners.
- 3/4" custom drive screw coupled with the special equalizer washer provides smooth operation while proprietary heat treating extends its life 5-10 longer than similar designs.
- Six adapters increase application coverage. Includes tie rod/ball joint tool and two Ford axle installers.
- Included Application Guide is the most comprehensive on the market.



### 6575-3

#### Hub Grappler™ Hydraulic Kit

- The Hub Grappler Hydraulic Option is an economical way to increase the performance and speed of wheel bearing and hub service.
- Kit includes a through hole 9-ton ram, OTC 2510A air/hydraulic pump, 6 ft. hose with couplers, drive screw and nut.



### 6575MAN-18

#### Hub Grappler Application Manual

The 2018 Hub Grappler Application Guide is the most comprehensive hub and bearing service guide on the market. Developed to be the first tool used in the kit, it provides quick reference to the other tools in the kit required to do the job, eliminating guesswork and saving time. The application guide covers vehicles up to model year 2018.

The guide helps find the correct adapters for front hub removal and replacement, front wheel bearing removal and replacement, rear hub removal and replacement and rear wheel bearing removal and replacement.

Can also be used during steering knuckle service, with adapters identified for each specific vehicle application.



### 6575H

#### Hydraulic Hub Grappler™ Kit

- An economical way to increase the performance and speed of wheel bearing and hub service.
- Kit includes a through hole 9-ton ram, OTC 2510A air/hydraulic pump, 6 ft. hose with couplers, drive screw and nut.
- Jaws designed and sized to properly fit hub applications and is quickly located on the puller bar without the use of fasteners.
- 3/4" custom drive screw coupled with the special equalizer washer provides smooth operation while proprietary heat treating extends its life 5-10 longer than similar designs.
- Six adapters increase application coverage. Includes tie rod/ball joint tool and two Ford axle installers.
- Included Application Guide is the most comprehensive on the market.



### 30-Ton King Pin Pusher Set

The Heavy Duty Kingpin and Brake Anchor Pin Pusher utilizes its cylinder and hydraulic force to replace traditional time-consuming torch and hammer methods. It helps get the job done in minutes instead of the better part of a day. Five special collars and two pins allow this unit to work on both straight and tapered kingpins. It accommodates sizes from 7/8" to 2" in diameter and up to 11-1/4" in length. With 30 tons of force, it can push out even the most corroded kingpins. The anchor pin can be removed quickly by using the special adapter installed in the pusher's base block and the unit positioned over the brake's spider. Included are the 4121A-MA hydraulic cylinder and 4012A Two-Speed Hand Pump that make the job easy.

**4240A** – Complete kingpin and anchor pin pusher set with hydraulics.

**4241** – King- and anchor-pin pusher with anchor pin adapters without hydraulics.

**29424** – Anchor pin adapter only.



### 4295

#### Wheel Stud Service Kit

- Works on most hubs for installation and removal.
  - All sizes of studs.
- Installation done by pushing on the head, eliminating the need for threaded adapters.
  - Reduces number of adapters required
  - Reduces damage to studs
  - Increases ease of use
- Remove and install 10 studs in only 10-15 minutes (compare to 20-30 minutes for more expensive competitive products).
- Can be powered with an impact wrench, no hydraulic power source required.
- No need to remove hub from vehicle.
- Reduces risk of damage to hubs, studs, and bearings when using tool.
- Weighs only 12 lbs., assembled to remove studs and 14 lbs., assembled to install studs.



### 5190A

#### Heavy-Duty U-Joint Puller

- The ideal tool for disassembling drivelines.
- May be used with up to a one-inch impact wrench.
- Quickly and easily removes sealed U-joint cups without the need for hammering or heat.
- Will not damage the driveshaft, yoke, bearing cups, or joints.
- Fits practically all Class 7 and 8 trucks, including: Spicer driveline 1610, 1710, 1760, 1810, 1880 Spicer SPL 140, 170, and 250 "Life Series" Meritor (Rockwell) 16N, 17N, 18N, 1710 Meritor RPL 20 and 25 "Permalube" Series.
- Covered by OTC Lifetime Warranty®.



### 7180

#### Universal Bearing Cup Installer

This handy, adjustable tool is designed to install wheel-bearing cups in a wide range of heavy-duty axles. Simply adjust and lock the jaws to the cup I.D., slip on the new cup, set it in the bore, and drive it in with a hammer. The tool helps eliminate the damage caused by makeshift methods.

- Works on axles from 11,000 to 50,000 lb. capacity.
- Adjusts to fit 3-5/8" to 6-1/2" O.D. bearing cups, which adds up to as many as 30 individual drivers.



### 7471A

#### 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.

### 6749

#### Engine Barring Socket

- Designed to rotate engine on a Mack E7 and Cat 3208.
- Similar to J-38587-A.



### 5038

#### Brake Anchor Pin and Bushing Service Set

With the No. 5038, there's no need to remove the bearing hub assembly just to replace the pins and bushings on 16-1/2" S-cam trailer and tractor "Q" brake systems.

- Special tooling and our C-frame press get you past the hub assembly, so you can do the job quickly and professionally without damaging other parts.
- Includes everything needed for removal and replacement.



### 5054

#### Air Brake Service Kit

This kit has the tools needed to remove slack adjusters and push-rod clevis pins used in the S-cam brake systems of class 7 and 8 vehicles.

- Works on manual or automatic slack adjusters.
- Includes Nos. 5055 and 5056 slack adjuster pullers, 5057 brake clevis pin press, and a plastic storage case.



### 5081

#### S-Cam Air Brake Spring Tool

- Eliminate makeshift, unsafe methods of unhooking and reconnecting retaining springs when replacing brake shoes on heavy-duty tractors and trailers.
- Simply hook the retaining spring loop and press down. Lever action against the axle makes the job a snap!



### 5085

#### Hub Oil Seal Puller

- Eliminates bearing and hub damage that can occur when a punch and hammer is used to remove the seal.
- Extra long 28" handle provides leverage, unique pulling head design quickly and easily removes the seal in one piece.
- Built from the highest quality heat-treated steel.
- Removes hub seals on trailer and truck axles, including truck steering axles.



**5018A**

### Truck Clutch and Flywheel Handler

- Replaces 14" & 15-1/2" clutch assemblies weighing up to 250 lbs.
- 13" low point enables access below side faring.
- Linkage raises load from horizontal to vertical position.
- 360 degree swivel head.
- Covered by OTC Lifetime Warranty®.



**5078**

### Air-Assisted 2,000 lb. Capacity High-Lift Transmission Jack... or Trucks & Buses

- Foot-operated air pump enables the operator to effortlessly raise the transmission into place.
- Rugged, heavy wall tubing and oversized base for stability.
- A dedicated adapter for Allison 500- and 600-series automatic transmissions is included.
- Covered by OTC Lifetime Warranty®.

#### Specifications:

Min. height is 41-1/2"  
Max. height is 65"  
Forward tilt – 50°  
Backward tilt – 38°  
Side tilt (side/side) – 14°  
Leg width – 46"



**1735B**

### 2,000 lb. Capacity HD Motor-Rotor® Repair Stand

- Handles a wide variety of engines, transmissions, torque converters, and rear axles from trucks, tractors, and construction machinery.
- The 50:1 ratio gearbox allows full rotation of mounted unit with just a turn of the crank and locks in position. Easily maneuvered when loaded.
- To ensure engine stability in all positions, this repair stand is equipped with a positive-crank handle locking mechanism.
- Twin-post design, featuring laterally adjustable, 3 position outboard support; provides an extremely stable work-holding unit.
- Locking rear wheels anchor stand in position.



**5019A**

### 2,200 lb. Capacity Low-Lift Transmission Jack

- Special mounting adapter fits popular Eaton® Fuller® RoadRanger® transmissions used on nearly all Class 7 and 8 heavy-duty trucks. Mounting plate angle is adjusted with the turn of a wrench.
- Swiveling pump handle permits ease of operation in restricted working spaces. Fast-acting pump quickly raises lifting arm.
- Includes No. 540231 adapter for Eaton® Fuller® RoadRanger® transmissions

#### Specifications:

Min. height is 8-1/4" Max. height is 36-1/2"  
Max. forward tilt – 15° Max. backward tilt – 20°  
Max. side tilt (either side) – 12°  
Overall length – 52" Overall width – 32-1/2"



**1788B**

### 22-Ton Capacity Under-Axle Jack

- Self-retracting, spring return feature.
- Long 49-1/2" T-handle lets you easily position jack under vehicles with long overhangs.
- One pull of the handle activates the self-retracting 22-ton capacity ram without having to crawl underneath the vehicle.
- Jack has large rubber-tired wheels.
- Lifting range: 3/4" saddle Max. height 17-3/4"; 1-15/16" saddle Max. height 18-15/16"; 3-7/8" saddle Max. height 20-7/8"
- Cylinder stroke, 4-1/2"; extended screw length, 4-1/4"; PSI range, 90-145.



**1726A**

### 1,000 lb. Capacity Engine Stand

- A time saver for passenger car and light truck engine rebuilding or repair.
- Four adjustable attachment arms make engine mounting fast and easy.
- Engine can be rotated a full 360° with a turn of the handle; a locking pin secures the work in any of eight positions.
- Two rear wheels lock tightly to anchor the stand in place.
- Easy one-bolt disassembly for transport of stand.
- Covered by OTC Lifetime Warranty®.

#### Specifications:

Height to center line – 28", Length – 46"  
Width – 35-1/2", Handle length – 24"



5091 shown mounted on transmission jack (jack not included).

**5091**

### HD Spindle Adapter

- Adapter for low lift transmission jacks that holds the spindle assembly firmly in place during king pin service.
- Eliminates the need to completely disassemble the brakes to reduce spindle weight for handling.
- Spindle assembly can be raised to a comfortable working height while replacing king pin bearings or bushings.
- Patented design will work with standard HD truck bolt patterns and wheel stud sizes.
- Adapts to most low lift transmission jacks.



5269

### 20-Ton Truck Ramps

- Long, retractable T-handle enhances mobility.
- Non-skid rubber matting prevents slippage during use.
- Durable, heavy-duty rubber wheels.
- Capacity per pair is 20 tons
- Covered by OTC Lifetime Warranty®.

**5268** – 20-ton truck ramps handle up to 10" tread width.

**5269** – Wide 20-ton truck ramps handle up to 16" tread width.



**5130**

### 1,000 lb. Capacity DriveMaster™ Driveline Lift

- Low profile of 7".
- Lift range: 23" to 30".
- Pivoting pump handle +/- 15° tilt in each direction.
- Includes 553516 differential mounting adapter. Mounts easily using existing bolt patterns. Fits the most common differentials currently in use on Category 7 and 8 Heavy Duty Trucks. Including: Eaton, Fuller, Rockwell, Meritor, Spicer, International, and Mack.
- CE certified, PALD compliant.
- Covered by OTC Lifetime Warranty®.

### COMBINING SIMPLE OPERATION WITH SUPERIOR ACCURACY

These machines will test, recover and recharge R-134a and R-1234yf automotive A/C system quickly and accurately.

#### R-134a Systems



#### R-1234yf Systems



Features	34288NI	34788NI	34788NI-H	34988NI	AC1234-4	AC1234-6
Fully Automatic Function: Program to recover, vacuum, leak test and charge without operating panel valves.	Manual Valves	X	X	X	X	X
Automatic fluid drain/inject	Oil drain	Oil drain/inject*	Oil drain	Oil drain/inject, dye inject**	Oil drain	Oil drain
Refrigerant & Oil Database: A/C system capacities for North American market vehicles (Optional – not included with the machine)	Optional	Optional	Optional	Optional	Optional	Optional
A/C System Flush: Flushes a vehicle's A/C system with refrigerant, eliminating any residual oil or other liquid. (Flushing adapters not included)	-	-	X	X	X	X
Save & print before and after service data: Allows the user to store before and after service information by vehicle and print this information to provide to a customer.	-	X	X	X	X	X
Visual & Audible Alarm: Notifies the user when service is complete, or if a problem has occurred.	-	X	X	X	X	X
Vacuum Leak Test: Monitors level after evacuation, informs of possible leak.	-	X	X	X	X	X
Automatic Air Purge: Eliminates system-damaging air without monitoring gauges or opening valves.	X	X	X	X	X	X
Automatic Refrigerant Refill: Maintains a user-selectable amount of refrigerant in an internal vessel and signals when it's time to change supply tank.	-	X	X	X	X	X
Vacuum Feature: Defaults to 15 mins, programmable up to 99 mins. "Remaining time" is displayed.	X	X	X	X	X	X
Display: Multilingual.	X	X	X	X	X	X
Refrigerant Charging:	X	X***	X***	X***	X***	X***
Refrigerant Management System: Displays refrigerant use and monitors remaining filter life. Prompts appear when 1/3 of filter life remains.	X	X	X	X	X	X
Electric Vehicle: Capable of servicing high voltage electric compressor A/C systems.	-	-	X	-	X	X
USB2.0 port & Ethernet Network port/audio jack	-	-	-	-	-	X
Replacement Filter part number 34724	X	X	X	X	X	X
Printer	Optional	Optional	Optional	X	Optional	X

\* One oil bottle. \*\* Two oil bottles and one UV dye bottle. \*\*\* Charge mode from high or low side, or use both sides.



**NEW**

#### 16995 R-ID Plus Refrigerant Analyzer

- Works with both R134A and the newer R-1234yf refrigerant
- Quickly analyzes refrigerant in a vehicle's A/C system to determine if it is good or bad, a requirement of R-1234yf service
- Certified to the SAE J2912 standard and capable of connecting directly to any SAE J2843 or J3030 AC service machine with an external USB port and not equipped with a refrigerant analyzer
- Large, easy to read color display shows results quickly and accurately, helping technicians decide their next step
- Includes internal printer to print final test results

**16990** – R-ID Refrigerant Analyzer Same as 16995 without printer.



#### LD9-TGKIT H2 Tracer Gas Leak Detector Service Kit

- Color display with graphics and visual alerts
- Bar and Pinpoint graphing modes help locate leaks faster
- Loud audible alert with mute option
- UV and Clear LED inspection lights
- Automatic and Manual calibration
- Battery powered (Uses 4 standard AA batteries - included)
- Compatible with most Hydrogen-based tracer gases
- Meets SAE J2970 industry standards
- Includes 134a and 1234yf high-side coupler, hose and regulator for tracer gas

**LD9-TG** – H2 Tracer Gas Leak Detector Same as LD9-TGKIT without couplers, hose and regulator.

### New 2019 A/C system capacity databases



34411-J  
134a database  
For 34788, 34788-H  
& 34988 machines



**NEW**

34412-D  
134a database  
For 34288NI, 34788NI,  
34788NI-H & 34988NI machines



34413-B  
1234yf database  
For AC1234-4  
machines

#### Vehicle Database Screens R-134a Vehicle A/C Refrigerant Database 2019

- Confirm A/C system charge capacities directly from your Robinair A/C RRR machine for R-134a and R-1234yf systems, sold separately.
- Includes charge amounts and component oil capacities for vehicle model years 1997-2019 using R-134a refrigerant and vehicle model years 2013-2019 using R-1234yf refrigerant.
- Database helps ensure the vehicle system is charged with the correct amount of oil, per factory and OEM specification

**34411-J** – R-134a Vehicle A/C Refrigerant Database 2019. Compatible with legacy Robinair R-134a machines 34788, 34788-H, 34988.

**34412-D** – R-134a Vehicle A/C Refrigerant Database 2019. Compatible with new Robinair R-134a machines 34288NI, 34788NI, 34788NI-H, 34988NI.

#### R-1234yf Vehicle A/C Refrigerant Database 2019

**34413-B** – R-1234yf Vehicle A/C Refrigerant Database 2019. Compatible with new Robinair AC1234-4 R-1234yf recovery machine.

**MADE IN USA\* - LEAK DETECTORS FROM ROBINAIR**  
 MEETS SAE J2913 & SAE J2791 ASHRAE 173-2012, EN14624-2012 INDUSTRY STANDARDS  
 \* Made in USA with globally sourced components



### LD3

- Loud audible alert
- Automatic calibration

#### LD3 Features

- Long life, stable sensor
- Automatic calibration and reset to ambient
- 3 adjustable sensitivity levels
- Low battery indicator
- True mechanical pump
- Uses 4 AA alkaline batteries, included
- Rubberized Santoprene handle grip

### LD7

- Color display with graphics and visual alerts
- Bar and Pinpoint graphing modes help locate leaks faster
- Loud audible alert with mute option
- UV and Clear LED inspection lights
- Automatic and manual calibration

#### LD7 Features

- Patented 3 LED UV lights with 395-415 nm; wavelength is optimum for A/C dye fluorescence
- Unique color graphic LCD screen
- Long life, stable sensor lasts up to 10 years
- Sweep mode function to pinpoint leak source
- Automatic calibration and reset to ambient
- User friendly message and error screens
- High-intensity LED inspection light
- 3 adjustable sensitivity levels
- Low battery indicator
- True mechanical pump
- Audio mute function
- Uses 4 AA alkaline batteries, included
- Rubberized Santoprene handle grip

### LD5

- Color display with graphics and visual alerts
- Bar graph mode helps locate leaks faster
- Loud audible alert
- LED inspection lights
- Automatic and manual calibration

#### LD5 Features

- Unique color graphic LCD display
- Long life, stable sensor
- Automatic calibration and reset to ambient
- User friendly message and error screens
- High-intensity LED inspection light
- 3 adjustable sensitivity levels
- Low battery indicator
- True mechanical pump
- Audio mute function
- Uses 4 AA alkaline batteries, included
- Rubberized Santoprene handle grip

### 41234

#### R1234yf Aluminum Manifolds and Hose Set

- Easy-to-read 3-1/8" adjustable gauges.
- Durable aluminum manifold block with fittings.
- Improved face seal valves provide a tight seal, less wear and improved flow.
- Easy-to-grip control knobs.



### 45111

#### 2-Way Brass Manifold R134a Manifold Hose Kit

- 90° manual couplers
- 72" R134a hose set



### UV Leak Detection Kit

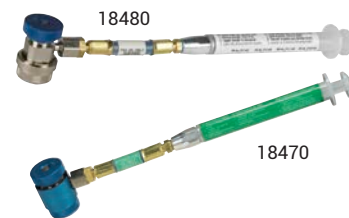


### 16235

#### UV Leak Detection Kits

- The easiest and most accurate gun available today.
- No guesswork – a pre-measured application every time.
- One squeeze injects a pre-measured amount (1/8 oz.) of dye. No more adding too much dye.

### Syringe-type Injectors



Use these syringe-type injectors to add oil to a fully pressurized A/C system. Fill the barrel with the amount of oil needed, connect the injector, and press the plunger.

- 18480** – R-134A oil injector, PAG labeled
  - 18490** – R-134A oil injector, POE labeled
  - 18460** – R1234YF oil injector, generic
  - 18465** – R1234YF oil injector, PAG labeled
  - 18470** – R1234YF oil injector, POE labeled
- Not recommended for UV dye injection.

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## Robinair Vacuum Pumps

### VacuMaster® Single Stage Vacuum Pumps

- 15115** 1.5 CFM Vacuum Pump
- 15310** 3 CFM Vacuum Pump
- 15510** 5 CFM Vacuum Pump



### VacuMaster® 2-Stage Vacuum Pumps

- 15150** 1.5 CFM Vacuum Pump
- 15300** 3 CFM Vacuum Pump
- 15500** 5 CFM Vacuum Pump



### CoolTech® Vacuum Pumps

- 15434** 4 CFM Vacuum Pump
- 15600** 6 CFM Vacuum Pump

