

# MUSCLETOOLS

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

Q4 2018 Edition

OTC

ROBINAIR

actron

BOSCH

## Buy an OTC Encore or Evolve scan tool and receive an OTC-branded YETI® cooler

Buy 3893 Encore, receive a YETI Roadie® 20 cooler

Buy 3896 Evolve, receive a YETI Tundra® 35 cooler



YETI is a trademark of YETI Coolers, LLC. This Promotion is in no way sponsored, endorsed or administered by, or associated with YETI Coolers, LLC.

See page 4

## PROMOTIONS

All promotions valid Q4 2018, unless otherwise stated. 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.

**Buy an eligible A/C cart, redeem for free Vehicle A/C Refrigerant Capacities Database**

**Eligible A/C models:**

- ▶ 34288NI, 34788NI, 34788NI-H, 34988NI, free 34412-C Database
- ▶ AC1234-4, free 34413-A Database



Purchase must be made between September 1, 2018 – December 31, 2018

See page 15

**Buy Bosch ESI[truck] HD diagnostics solution tool, 3824, receive a free extra year of software**



One-year 3824-08 subscription renewal card to ship 11 months after tool purchase date.

See page 2

## 12 NEW GM TOOLS

NEW



See page 9

## COOLANT & VACUUM SYSTEMS

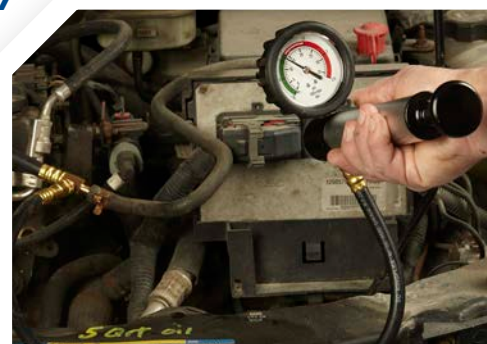
NEW



See page 6

## NEW OTC 6977 UNIVERSAL COOLING SYSTEM PRESSURE TEST KIT

See page 8



# Bosch ESI[truck] heavy-duty diagnostics



The ESI[truck] platform features software package options for vehicles technicians see every day. The 3823 and 3824 software packages include all makes/ models HD coverage, datastream and component actuations. Choose the 3824 package for even more – system info, technical info, parameter configurations, change calibrations, wiring diagrams, injector coding and service schedules.

## 3823 ESI[Truck] Pro level software

For professional techs looking to do DPF regeneration, component actuation, special tests and automatic module identification for Class 6-8 trucks.

### Best aftermarket coverage

- ▶ Truck brands: Freightliner, International, Kenworth, Mack, Volvo, Peterbilt, Sterling, Western Star and more.
- ▶ Engine brands: Caterpillar, Detroit Diesel-MBE, Volvo, Mack, Navistar, PACCAR, Perkins, Deutz, MTU and more
- ▶ Brake systems
- ▶ Transmissions
- ▶ Trailer ABS
- ▶ In-depth heavy-duty, medium-duty
- ▶ Light-duty basic

### Functions and efficiency technicians need

- ▶ Fault code report for entire truck
- ▶ Automatic vehicle ID
- ▶ Read & clear fault codes
- ▶ Cylinder cut-out
- ▶ Injector actuations
- ▶ Key component actuations
- ▶ Bluetooth wireless to VCI
- ▶ Comparable to industry software including most OEM's

## 3824 ESI[Truck] Expert level software

For expert techs wanting all the functions of 3823 plus system info, technical info, parameter configurations, change calibrations, wiring diagrams, injector coding and service schedules.

### All the ESI[truck] Pro features plus expert-level diagnostics:

- ▶ Vehicle parameter modifications (Injector Codes, Max Speed, VGT, etc.)
- ▶ System tests (some automated)
- ▶ Leakage tests
- ▶ Injector coding and trim files
- ▶ Optional Repair Information, includes:
  - System Wiring Diagrams
  - Component Locations
  - Component Specifications
  - Installation Specifications
  - System Operating Specifications

Learn more or request a demo at [boschdiagnostics.com/pro](http://boschdiagnostics.com/pro).

ESI[truck] Software Packages features	Professional Packages		Expert Packages	
	3823BSC	3823	3824BSC	3824
10" tablet PC included	N/A	✓	N/A	✓
RP1210 communication interface	✓	✓	✓	✓
Create and print reports*	✓	✓	✓	✓
DPF regeneration and maintenance resets	✓	✓	✓	✓
Component actuations	✓	✓	✓	✓
Actuation tests	✓	✓	✓	✓
Data stream tables and graphing	✓	✓	✓	✓
Read and clear trouble codes	✓	✓	✓	✓
System tests (some automated)	N/A	N/A	✓	✓
Leakage tests	N/A	N/A	✓	✓
Injector coding and trim files	N/A	N/A	✓	✓
Calibrations (including VGT)	N/A	N/A	✓	✓
Adjustments and settings	N/A	N/A	✓	✓
Wiring diagrams	N/A	N/A	✓	✓
Technical data	N/A	N/A	✓	✓
One-year warranty	✓	✓	✓	✓
3824-08R troubleshooting and repair subscription for faster diagnosis of engine, brake, transmission, ABS coverage & more	N/A	N/A	Optional	Optional

\*HD Diagnostics coverage: Freightliner, International, Kenworth, Mack, Volvo, Peterbilt, Sterling, Westernstar, MD Trucks, Isuzu, GM and Ford.

\*Engine coverage: Caterpillar, Cummins, Detroit Diesel-MBE, Deutz, MTU, Navistar, PACCAR, Perkins and Volvo, and includes medium- and light-duty software.



1699500000

## Bosch HPT 500 High Pressure Leak Tester

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)

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



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

## 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



## 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.**

1699200240

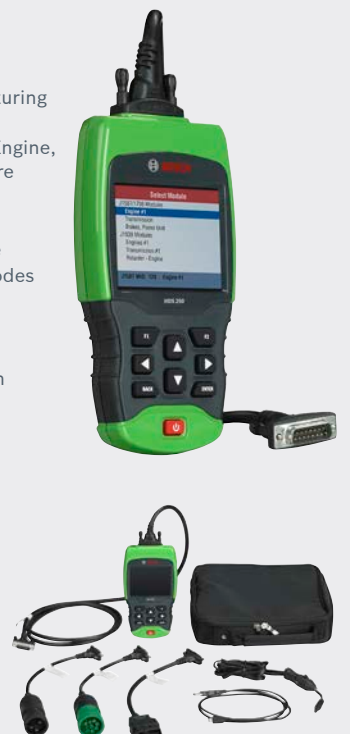
**Cost-effective solution for aftermarket shops in need of heavy-duty coverage**

### 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.





## 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

- ▶ *The industry's best and only tool with full-system wiring diagrams*
- ▶ Wireless, J2534 compliant VCI
- ▶ Dual-band Wi-Fi for secure connections to shop WiFi and wireless VCI
- ▶ 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.

## 3914 BATTERY & STARTING/CHARGING SYSTEMS TESTER



- Test automotive batteries and create health reports
- Works on 6V and 12V automotive batteries - Regular Flooded, Enhanced Flooded, AGM, EV and Start-Stop.
- 12V/24V charging/starting systems tests
- Test charging and starting system health to diagnose charging issues
- Email test results (Stores 2,000 test records)
- Test batteries with as little as 1.5V
- 3 LED indicators (Blue: Connected, Green: Power, Red: Trouble)
- 20-inch cable with durable clamps
- Works with Encore or Evolve software version 2.10 and newer
  - 2.10 software includes a new battery and system test app
  - Communicates wirelessly to Encore & Evolve via Bluetooth



✓ Works with Encore or Evolve software version 2.10 and newer

## 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)	•	•	•	•



**3838**

### Standalone TPMS tool with Bluetooth OBD II

The OTC 3838 is both a sensor activation and diagnostic device that features a wireless OBD II module for TPMS sensor registration. The tool works with all OEM and aftermarket sensors.

- Exclusive wireless OBD-II module for TPMS sensor registration.
- Standalone TPMS tool with activation, relearn & diagnostic capabilities.
- Three years of software updates included.
- Allows for cloning of universal sensors.
- Key fob signal test and infrared print capabilities.



**3415**

### CAN Test Box Breakout Box for Scan Tools

- Connects to Diagnostic Link Connector (DLC).
- Connect leads for increased diagnosis, analysis, and monitoring.
- LEDs display signal detection – Flashing LED's
- Magnifies DLC
- Displays battery voltage with warning

## 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 Encore 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 the Evolve's exclusive full-system wiring diagrams for vehicles 1985 and newer.



**3181**

### 130 Amp Heavy-Duty Battery Load Tester

Applying an industry-leading 130 amp load, this ergonomically designed, heavy-duty battery tester provides accurate, reliable test results in just 10 seconds. It includes uniquely designed clamps for a positive grip on top and side post batteries and an extra large, easy-to-read display.

- 130 amp load capacity for accurate results
- 0-16 volt range
- Uniquely-designed clamps for both top and side post batteries
- Extra large display with zero adjust
- Works on both 6V and 12V batteries
- Ergonomic handle design
- Side tabs for on-tool clamp storage
- Back brackets for tool storage on wall or toolbox

**3834T**

### TPR Activation Tool VEHICLE COVERAGE THROUGH 2017

- New lower cost kit for use with Encore, Evolve, Genisys Touch scan tool or as a stand-alone tool.
- Works on vehicle TPMS sensors through 2017.
- Bright graphic display and simple navigation buttons enable vehicle selection for fast activation.
- Automatically adjusts activation output power to eliminate cross activation of near sensors.
- Tool includes a 6 month update subscription from [www.tpmsupdates.com](http://www.tpmsupdates.com)





**NEW**

**6975**

### Vacuum/Pressure System Tester

The 6975 Vacuum/Pressure System Tester can immediately diagnose leaks in pressure or vacuum systems. The patented design includes an intuitive rotary dial for quick switching between pressure and vacuum and an ergonomic pistol grip with lever. High-quality hoses with quick-couple fittings make quick work of hose/adaptor changes and are leak-free under pressure or vacuum.

An integrated rear-mounted gauge provides optimal viewing with testing up to 30 PSI pressure and up to 28 in Hg vacuum. It includes hose adapters, rubber adapters and plastic attachments for diagnosing EGR valves, fuel pressure regulators, thermal and electric vacuum switches, turbocharger waste gates, heating and ventilation control valves, central locking systems, MAP sensors and more. Stored in a convenient blow molded case. Covered by OTC's Lifetime warranty.

Includes:

- Quick Dial Diagnostic Pump Tool
- Silicon-like Hoses (3)
- Black Rubber adapters (2)
- Blue Plastic Adapters (8)



**NEW**

**6976**

### Cooling System Refilling Gun

The 6976 Cooling System Refilling Gun can eliminate airlocks during cooling system refilling and eliminates the need for system bleeding. Small and large rubber cones suit both passenger and commercial vehicles with no additional adapters needed.

Attach the Cooling System Refilling Gun to your shop air supply then insert the nozzle into the cooling system, like the opening on a radiator and establish vacuum. Insert hose into your new coolant reservoir and switch device to vacuum. It will pull air out of the coolant system while new coolant is added.

Avoid wasting time finding a pocket of trapped air that can cause cooling system failures and inaccurate sensor readings. Packaged in a convenient blow molded storage case. Covered by OTC's Lifetime Warranty.

Includes:

- Refilling gun with integrated hose assembly
- Rubber adapter "stepped" for 1/2" to 1-1/2" diameter opening
- Rubber adapter "stepped" for 1" to 2" diameter opening
- Blow Molded Storage Case
- Operating Instructions



**NEW**

**6978**

### TestVac Vacuum Test Kit

OTC 6978 Test-Vac Vacuum Test Kit allows fast, efficient testing and monitoring of many vacuum operated components and also allows one man brake bleeding. The new kit can help find vacuum leaks, test fuel, engine and exhaust valves, door locks, and heating/cooling system performance. Included in the kit are the vacuum pump, fluid container, transfer cap, hoses and fittings, packaged in a convenient blow molded storage case and covered by OTC's Lifetime Warranty.

Includes:

- Vacuum pump with integrated vacuum gauge
- Fluid container with transfer cap
- 2 lengths of vacuum hose
- 12 assorted vacuum hose fittings
- 3 brake bleed fittings
- Instruction Manual
- Blow Molded Storage Case



**6043**

### Cooling System Power Flush 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.

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.



**8104A**

### Vacuum Brake Bleeder

This one man brake bleeding system allows for fast and efficient vacuum brake bleeding. Universal rubber fitting holds securely on brake bleeder screw. Attach shop air and use the quick release trigger for on-demand vacuum and hands free operation. Compact size and 17 oz. (500ml) capacity.



**8104A-SET**

### Brake Bleeder with Auto Filler Set

This one man brake bleeding system allows for fast and efficient vacuum brake bleeding. The Vacuum Brake Bleeder has a universal rubber fitting that holds securely on brake bleeder screw. Attach shop air and use the quick release trigger for on-demand vacuum and hands free operation.

Compact size and 17 oz. (500ml) capacity.

The Master Cylinder Auto Filler automatically refills the brake fluid reservoir during brake bleeding. Base plate retaining clip and height adjustment allows fit on all reservoir types. On/Off tap allows installation and storage without drips or spills. 20 oz. (600ml) capacity.



**7991**

### 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.



**NEW**

### 6614 Heavy-Duty Gear Puller

The OTC 6614 Heavy Duty Gear Puller will remove gears up to 7-1/4" in diameter, including most cam gears. Rated at 8 tons, this puller is stout enough for almost any heavy-duty application and includes a pair of metric bolts for most applications. The slimmer design of the cross block gives more room to set up in tight quarters. The tempered steel, rust inhibitor-coated bolts are graded 10.9 and are sized M12x1.75" and are 90mm in length. Cam gears giving you fits? Covered by OTC's Lifetime Warranty.



### 7402 Universal Outside Thread Chaser

This thread chaser will quickly restore threads on fork tubes, steering stems, axles, etc. to near original condition without the use of expensive thread-cutting equipment.

- Replaceable V-pads and dies.
- 1-1/4" to 5" O.D.

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.



464



465

### OTC "GripLock" Pullers

Manufactured to our rigorous specifications to ensure the quality professionals expect from OTC.

- Pressure bearing yoke cap holds jaws in place for ease of set up - in any orientation.
- 2 or 3 jaw application.
- Both external and internal pulling action.
- "Live Center" action forcing screw.
- Professional finished for long lasting durability.

**464** - Puller with a 4" maximum reach, 3" to 4" spread.

**465** - Puller with a 7" maximum reach, 3" to 7" spread.

## OTC Puller kits

5 lb. Hammer in Polished Chrome Finish.



### 4579 9-Way Slide Hammer Puller Set

- Pulls flange-type rear axles and most front-wheel drive hubs.
- Internal and external jaws provide a variety of combinations to pull bearings, gears and seals.
- Two- and three-way cross blocks and cone provide the perfect jaw configuration for most jobs.
- Set also includes a grip wrench adapter and a dent puller attachment for sheet metal or other unique pulling requirements.
- Designed for use with other OTC 5/8"-18 thread slide hammer attachments.
- Packaged in blow-molded case.



### 4517 7-Ton Bar-Type Puller/Bearing Separator Set

- Includes a Bearing Splitter with 4" capacity, two sets of hex push puller legs, a 8" bar type puller head mated with a custom thread forcing screw.
- Now service and maintenance professionals have a Puller/Bearing set for tough jobs, up to 7-tons, larger applications, and greater reach 8" to 16".
- As a stand alone puller/bearing separator set or as a compliment to the 4518 version, the 4517 7-Ton Puller/Bearing Separator Set gives your maintenance/service shop the expanded capability to keep more business in house.



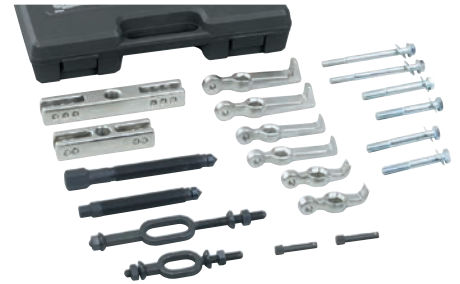
### 4518 5-Ton Bar-Type Puller/Bearing Separator Set

- This combination set includes our two most popular bearing 'splitters' (2" and 3"), four sets of hex push-puller legs and a bar-type puller head with a 9/16" forcing screw. Separator tools are used with bar puller and legs for a wide variety of pulling jobs.
- The 5" puller cross-bar with a 6-1/4" forcing screw or each of the bearing separators may also be used separately or in combination with other pullers or tools.
- A blow-molded plastic storage case keeps set contents organized and protected from loss.



### 4532 7-Ton Multi Purpose Bearing & Puller set

- Features a classic "H" style puller block accommodating 7-11" application spread.
- Includes 2 sets of forged jaws for a pulling reach range of 5" to 9" - tempered for heavy-duty applications. (Jaws from OTC's 4534 are interchangeable) Two forcing screws are included for short and long pulls.
- Multi applications include heavy-duty pinion bearings, side bearings, alternators, generators, power steering and crankshaft pulleys, timing gears and harmonic balancers.
- Deep set transmission gears and A/C clutches. Roller gears on tracked vehicles, locking collars on pivot shafts.



### 4534 OTC Multipurpose Bearing and Pulley Puller Set

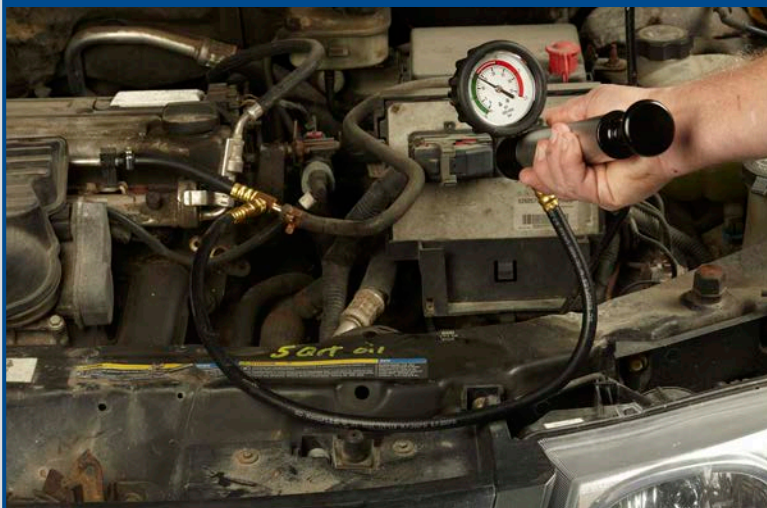
- For a wide range of pulling jobs, including: bearings, alternators, generators, power steering and crankshaft pulleys, timing gears, and harmonic balancers.
- Set includes drop-forged components, which can be used in a variety of combinations. Contents of Set: 2 - Forcing Screws (Live Center): 3/4"-16 x 6-11/16" and 3/4"-16 x 5" 2 - Cross-bar Yokes: 3 pin-hole @ 3-1/4" to 5-1/2", 2 pin-hole @ 2-3/8" to 3-3/8" 2 - Clamp Bolts 3 - Pairs of Puller Jaws: 1-3/8" Max, 1-5/8" Max, 1-3/4" Max 1 - Pair of Jaw Pins with Ball Spring 3 - Pairs of Capped Bolts
- Spread: 3" to 5", Reach: 1" to 2-1/4"
- Housed in a blow-molded plastic storage case.



### 7401 Ratcheting Chain Wrench

- This multi-purpose tool will grip parts of nearly any shape. It features a ratcheting head design that lets you turn in either direction without removing wrench from the work.
- 19" handle with capacity from 3" to 6-3/4" O.D.

### Cap Adapters NOT REQUIRED



6977

#### Universal Cooling System Pressure Test Kit

A Cooling System Pressure Test Kit with a truly universal approach to testing vehicle cooling system pressure. The tester adapts to cooling system hoses from 1/4" to 5/8" in diameter. Find a coolant hose connection and insert the adapter to match hose diameter, couple the hand pump with integrated gauge to the adapter and you're ready to test. When finished, relieve system pressure by slowly loosening the cap on the 'degas' bottle. Eliminate the search for the right cap adapter and test cooling systems faster.

The hand pump features an easy to read integrated pressure gauge, a padded base to set against vehicle surfaces without scratching and a 36" integrated hose with a quick-coupler mated to the adapters. The hose adapters use durable brass fittings and include a banded spring clamp for easy attachment. A radiator cap adapter with quick connect fitting is included for older vehicles. Every adapter includes a Schrader valve to prevent spray when disconnecting.

This Cooling System Pressure Test Kit covers virtually any make and model that enters your shop and is stored in convenient blow molded case. Covered by OTC's Lifetime Warranty.

#### Product Features

- Hand Pump with integrated gauge
- Dedicated pressure hose with quick-connect
- Raised gauge to reduce chance of damage if tipped
- Padded base to prevent damage to painted vehicle surfaces
- 4 adapters (1/4", 5/16", 1/2" and 5/8") with Schrader valves to prevent spray
- Includes a cap adapter
- Blow molded storage case



**NEW**

#### Stinger 3-Ton & 6-Ton Jack Stands

- Formed and welded steel base for strength; self-locking ratchet handle cannot be released under load. Durable baked enamel finish resists corrosion.
- Stands conform to ANSI PALD load rating standard; factory tested before shipment.

5372

Pair of 3-ton jack stands. Base: 8-1/4" x 7-1/2". Height range: 12" to 17-11/16".

5373

Pair of 6-ton jack stands. Base: 11-9/16" x 10-3/8". Height range: 15-5/8" to 23-11/16".



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.



5077A

#### Transfer Tankers

- Draining oil from a large displacement engine and getting it to your bulk storage container is a snap with OTC's Transfer Tankers.
- Used oil is collected in a reservoir, and then rolls smoothly on 4" free-wheeling casters to your storage location.
- Pump moves five gallons a minute through the 8-foot transfer hose to the a 15-gallon reservoir.
- Handle is removable for easy storage.
- Screen attached to reservoir allows assembly to be stored on its side.
- Can also be used for transferring antifreeze.

5077A

Low profile Transfer Tanker is only 7-1/2" from floor to top of reservoir. Comes equipped with an electric pump.

5097

Low profile Transfer Tanker is only 7-1/2" from floor to top of reservoir. Comes equipped with a pneumatic pump.

#### SmartTech™ Technician Gloves

- Works with touchscreen technology.
- Washable synthetic leather palm with padding ensures comfort and a secure grip.
- Polyester and Lycra material around fingers offer a durable lightweight cover that stretches for a great fit.
- PVC cushions help protect knuckles from injury due to slippage.
- Comfortable polyester back panels include webbing for improved ventilation.



5801SGLV-L Large.

5801SGLV-XL Extra large.



**2551**

## Steering Column Anti-Rotation Pin

Installs into the steering column of most General Motors vehicles to keep the steering wheel orientation correct. Similar to J-42640.



**6945**

## Parasitic Draw Test Switch

Test switch is used with an amp meter to isolate parasitic amperage draws on all GM vehicles or any vehicle with a side- or top-post battery. This tool attaches between the negative battery lead and the battery, then the vehicle road is tested. The next step is to connect an amp meter to each side of the switch, thereby allowing all available current to pass through the meter. Fuses are then removed one at a time until the circuit source of the parasitic draw is located. Similar to J-38758.



**6788**

## Pan Seal Cutter

Designed to separate oil pan seals, the cutter is pressed into the sealant and struck with a hammer to cut through the oil pan seals. Other methods may damage the oil pan and/or sealing surfaces. Similar to J-37228. Works on most vehicles.



**6742**

## Crankshaft Seal Installer

Installs front crankshaft seal on 2012-2013 Chevrolet Sonic, 2012 Aveo, 2011-2012 Cruze, 2011-2012 Volt. Similar to KM-960.



**7040**

## Trans Case Holding Fixture

This holding fixture has an adjustable design for adapting to multiple transmission case configurations and other components. Safely handles components up to 250 lbs and offers 360-degree rotation with positive stops at 90-degree increments. Includes 7040-1 fixture and 34607 base. Similar to J-36842.



**7040-1**

## Trans Case Holding Fixture

This holding fixture has an adjustable design for adapting to many different transmission case configurations and other components. Safely handles up to 250 lbs and offers 360-degree rotation with positive stops in 90-degree increments. For use with base p/n 34607. Similar to J-36842.



**5267**

## Lift Pad Adapters, set of two

Lift pad adapters are used to properly lift most GM vehicle with a hoist or service jack. The adapters sit on the hoist or jack saddle and seat inside frame holes on GM vehicles to prevent saddle lip from damaging frames or subframes. Attempts to hoist-lift the vehicle without the 5267 may result in damage to the vehicle. Similar to J-43625.



**6706**

## Injector Rail Assembly Remover

Used for removal of the direct injection fuel rail without damage. The rail assembly must be removed as straight as possible to prevent damaging an injector bore in the cylinder head or the mount assembly. Similar to EN-49248.

**Applications:** 2007-2014 General Motors Direct Injection Engines including those used in Pontiac, Saturn, Cadillac and Chevrolet vehicles.

## NEW GM TOOLS



**6691**

## Camshaft Retaining Tool

Oversized retaining plates lock camshafts together at top dead center (TDC) on GM 2.8L 3.0L and 3.6L DOHC engines. Three-plate set is used to tighten both sets of cams to prevent them from turning while setting timing. Extra-large size prevents valve covers from being installed with the plates in place, protecting the engine. Similar to EN-48383.



**2549**

## Cigarette Lighter Socket Remover

Universal tool removes cigarette lighter socket without damage to socket or dash. Tool end lines up with the two tab windows of the lighter socket for easy, damage-free removal. Handle hole allows for easy hanging or can be used as leverage point for difficult to remove sockets. Similar to J-42059.



**2550**

## Key Fob Fixture

Used for removal and installation of the key blade pins in GM flip key fobs when replacing the fob and retaining the original key blade. Includes holding tray and drift pin for use with a hammer. Eliminates damage to all parts. Similar to BO-51098.



**6759**

## Flywheel Holding Tool

Holds the flywheel in place for servicing the balancer or flywheel bolts. Mounts in place of the starter and engages the flywheel ring gear teeth. Similar to EN-50792.

**Applications:** 2013-14 Cadillac ATS, 2014 Cadillac CTS, 2013-14 Chevrolet Malibu, 2014 Chevrolet Impala & Buick Regal 2.0L, 2.5L engines.



### 7248 U-Joint Removal/ 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.



### 6646 Lexus/Hyundai/Kia Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on Lexus, Hyundai and Kia vehicles. Set contains adapter part numbers 554413, 580570, 581426 and 38355A for use on:

Lexus	Hyundai
2006 GS300	2006-2011 Azera
2007-2011 GS350	2006-2010 Sonata
2006-2015 IS250	Kia
2016-2017 IS300	2007-2009 Amanti
2011-2017 IS350	



### 6647 Lexus/Toyota Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on select Lexus and Toyota vehicles. Set contains adapter part numbers 222307, 305227, 204508A and 580569 for use on:

Lexus - 2003-2009 GX470  
Toyota - 2003-2017 4Runner, 2007-2014 FJ Cruiser



### 6648 Ford Transit Connect Van Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on Ford Transit Connect Vans. Set contains adapter part numbers 580517, 580526, 581646, and 581647 for use on 2010-2013 Ford Transit Connect Vans.



### 6649 Chevy/GMC Ball Joint Adapter Set

This unique 3-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on Chevy and GMC vehicles. Set contains adapter p/n's 580524, 305227 and 580523 for use on 2011-2017 2500HD and 3500HD: Chevrolet Suburban, Chevrolet Avalanche, Chevrolet Silverado, GMC Sierra, GMC Yukon XL



### 6651 Mazda CX7 & CX9 Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on Mazda CX7 and CX9 vehicles. Set contains adapter part numbers 580585, 554413, 531739 and 554414 for use on 2007-2012 CX7 and 2007-2014 CX9.



### 6652 Subaru Ball Joint Adapter Set

This 3-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on select Subaru vehicles. Set contains adapter part numbers 581996, 581995 and 581994 for use on:  
2005-2006 Baja  
2016-2017 Crosstrek  
1998-Present Forester  
1993-Present Impreza  
1990-Present Legacy  
2000-Present Outback  
2015-Present WRX  
2014-2015 XV  
2013-2015 XV Crosstrek  
2006-2007 B9 Tribeca  
2008-2014 Tribeca



### 6653 Acura/Honda Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on select Acura and Honda vehicles. Set contains adapter part numbers 580518, 554419, 554414 and 313967 for use on:  
2009-2014 Acura TL and TSX  
2008-2012 Honda Accord  
2010-2011 Honda Accord Crosstour  
2012-2014 Honda Crosstour



### 6530 Ball Joint Intermediate Service Kit

- This 20+ adapter kit covers many Truck/Van/SUV applications and some car applications.
- With the majority of Cars and Truck/Van/SUV applications having press-in ball joints and universal joints, this kit is designed to service many of those applications.
- This kit is a combination of 7249, 7918, and 7996 kits, and includes 20+ adapters, C-Frame, Ball Joint Application Guide, and carrying case.



### 7249 Ball Joint Service Kit

- Removes and installs press-fit parts such as ball joints, universal joints, and truck brake anchor pins.
- Contains: 3 receiver tubes (2-3/4" I.D. x 3" O.D., 2-1/4" I.D. x 2-1/2" O.D., and 1-3/4" I.D. x 2" O.D.)
- Installation and removing adapters: 1 installing cup, 1 receiving cup, 1 installing adapter.



### 6529MAN-17 Ball Joint Application Guide

The Ball Joint Application Guide is a manual that is used in conjunction with OTC ball joint adapters and "C" frame. The manual provides a Year-Make-Model lookup to determine which ball joint adapters are to be used with the "C" frame to remove and install ball joints. The manual includes a lookup chart that provides removal and installation adapter part numbers and an application diagram section with visual examples of how the tools are oriented for removal and installation.

### 5693 Dual/Single Wheel Separator

Quickly separate rusted, frozen or seized outside dual wheels or single wheels from the wheel hub. The unique outer drive hook has an offset handle to easily align the tool on the rim to break wheels loose, with a flat side to eliminate turning during use. Outer drive hook has two grooves for 16" - 17" wheels and 19.5" to 24.5" wheels. Force is applied directly to the wheel rim and not the wheel lip, preventing damage and bending of the wheel.

Includes four adapters to fit most wheel shapes and sizes: Dual wheel outer, long cupped dual wheel inner, short cupped single wheel and flat.





**6601**

### Ford Rear Axle Nut Wrench

Applications: 2003-newer Ford F-250, F-350, and F-450 Super-Duty trucks with 10-1/2 inch rear axle. 4-lug socket. Same as Ford No. 205-448. Use with a 1/2" drive ratchet or breaker bar.



**4590**

### Brake Spring Pliers & 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.



**4600**

### Punch & Chisel Set

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"



**5038**

### Brake Anchor Pin and Bushing Service Set

With the No. 5038, there is 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. Much less complicated and time consuming!

- 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/replacement.
- Tooling is available separately for the tech who already owns the 7248 C-frame press. Set includes C-frame press and tooling in a plastic storage case.



**6502**

### Master Brake Flaring Tool Kit

Covers Single, Double, and Bubble type flares:

- Single Flare Standard Lines 3/16" - 1/2"
  - Single Flare Metric Lines 4mm - 14mm
  - Double Flare Standard Lines 3/16" - 1/2"
  - Double Flare Metric Lines 4mm - 10mm
  - Bubble Flare Standard Lines 3/16" - 1/2"
  - Bubble Flare Metric Lines 4.75mm - 10mm
- Kit contains flaring bar, arbor press, adapters, tube cutter, deburring tool, all in a hard case.

**7208A**

### Front Hub Installer and Puller

Front hub puller for servicing front-wheel drive cars. Includes a spare locknut, which permits use with a No. 1177 slide hammer for rear axle flanges.



**5758**

### Hub Cap Removal Tool

- Unique slide hammer design eliminates prying against the wheel finish and potential scratches.
- Opposite end has a rubber bumper used to re-install cap with a simple tab.



**5059**

### Hubcap Installer

Truckers like chrome, and many of them accent their truck's drive axle with chrome hubcaps designed to snugly fit around the axle-shaft bolts. Unfortunately for service shops, these hubcaps are often tricky to install without causing damage. That's where our hubcap installer comes in handy. Constructed of high-density polyethylene, this tool guides the cap into place over the axle nuts, protecting it from unwanted and costly dents.



**7270A**

### Locknut Socket

Serves 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.



**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.



**6720**

### Flare Nut Locking Plier Set

- Designed for use on new or damaged flare nuts that have been rounded or rusty.
- Fits Standard or Metric nuts and bolts.
- Angled jaws allow for clearance around frames and bulkheads.

Includes:

- 6720-1 Covers 1/4" to 5/16" (6mm to 8mm)
- 6720-2 Covers 3/8" to 7/16" (9mm to 11mm)
- 6720-3 Covers 1/2" to 5/8" (12mm to 16mm)



### 2,200 and 4,400 lb. Capacity Heavy-Duty Floor Cranes

- To conserve valuable floor space, crane folds into a compact package for storage.
- For "close-in" work, leg spread adjusts to clear vehicle's wheels, telescoping boom extension gives additional reach. Roller bearing mounted wheels and steering dolly provide ease of mobility.
- A two-speed hydraulic hand pump provides fast boom travel; descent of boom is under precise control of operator.
- Covered by OTC Lifetime Warranty®.

#### 1819

2,200 lb. Capacity Crane. Has hydraulic hand pump and 16-7/8" lifting chain. 39610 – 1/4" steel chain grade 43, 18-3/8" long, 2,200 lb. capacity. Has safety hook on end. Use with 1819.

#### 1820

4,400 lb. Capacity Crane. Has hydraulic hand pump and 18-3/8" lifting chain. 39611 – 5/16" steel chain grade 70, 19-3/4" long, 4,400 lb. capacity. Has safety hook on end. Use with 1820.



### Load-Rotor® Positioning Slings

- Use with a floor crane. Engine, transmission, or other component is tilted or leveled by turning sling's 5/8" hex drive end with a common speed handle and socket.
- Makes engine removal and installation a snap, even in close quarters.
- For use with floor cranes only; not to be used with overhead hoists or lifts.

#### 1805

2,000 lb. capacity Load-Rotor®. Has 56-1/2" long chain (1/4") and hook assembly with forged swiveling hook on each end. Pair of special lifting brackets included.

#### 1806

4,000 lb. capacity Load-Rotor®. Has 65-3/4" long chain (5/16") and hook assembly with forged swiveling hook on each end. Pair of special lifting brackets included.



### 6,000 lb. Capacity Heavy-Duty Mobile Floor Cranes

- Three boom positions give capacities of 4,000, 5,000, and 6,000 lbs. to handle the biggest engines, and often the transmission right along with the engine! Usable reach is almost 92".
- Boom swivels for vertical and lateral positioning; legs extend to straddle the biggest tires.

#### 1814

6,000 lb. capacity crane with electric/ hydraulic pump (115V) with remote motor control.

#### 1813

6,000 lb. capacity crane with two-speed hydraulic hand pump.



#### 1812

### Load Leveler

- Improved design over conventional spreader bars. Carriage on main support beam moved by turning lead screw; this permits fine adjustment of the tilt angle of component being lifted. Turn lead screw manually or with air-powered tools. Spreader bar adjustment secured with locking bolts.
- Made in the U.S.A. and covered by the Lifetime Warranty®.
- Max. lifting capacity: 6,000 lbs.; distance between hooks: min. 30", max. 46"; chain grade: 80.



### 2,000 and 4,000 lb. Capacity Folding Floor Cranes

- Both of these cranes fold up for compact storage.
- Front wheels are 3-1/2"; rear casters 5-7/8".

#### 2002

2000 lb. capacity crane with a reach of 24" to 36"

#### 2004

4000 lb. capacity crane with a reach of 25" to 46"



#### 4305

### 1,500 lb. Capacity Engine Load Leveler

- Designed to hook to a crane or hoist to handle and position large, bulky components.
- The horizontal tilt can be adjusted to compensate for off-center loads, or adjusted to a certain angle for a component being positioned.

### Engine Support Bars

Unique, innovative design featuring...

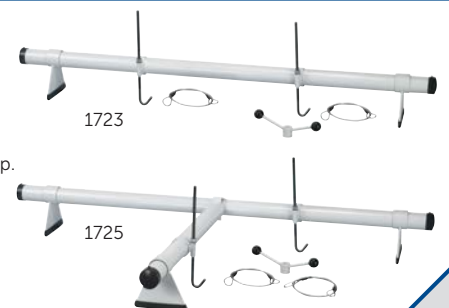
- Cutting edge, design self-centers load to prevent tipping on inclined surfaces.
- Smooth sliding legs adjust easily to different vehicle widths.
- PVC-coated support legs don't scratch vehicle surfaces.
- "Quick Connect" third-point bar (No.1725) makes setup a snap.
- Spinner handle enables lightning fast adjustment.

#### 1723

Engine support bar (2-Point), 500 lb. capacity.

#### 1725

Engine support bar (3-Point), 700 lb. capacity.





**1821**

### 10-Ton Capacity, Air-operated Automotive Oil Filter Crusher

- Crushes up to four automotive filters (3-7/8" dia. x 9" high) at one time, in approximately 20 seconds. Engineered and built for dependable operation.
- 100% air operation eliminates electrical connections. Generous size of crushing chamber easily accommodates the largest automotive spin-on filters.
- Includes mounting stand. No wall mounting or time consuming installation required.
- Covered by OTC Lifetime Warranty®.



**1877**

### 25-Ton Capacity Heavy-Duty Oil Filter Crusher

- Handles the big filters (up to 6" dia. and 12-1/2" long) found in trucks, construction equipment, farm implements, etc. May also be used for automotive and light truck filters. It does it all!
- Crushes filters to 1/4 of original size, removing up to 95% of filter's oil capacity. Automatic cycle feature: load the filter, push a button, and walk away.
- Air/hydraulic pump works on standard shop air (requires 9 CFM at 100 psi). Special valving returns ram automatically at the end of each cycle. No electrical connections needed.
- Built-in floor stand (completely assembled). Whole unit requires just 5 square feet of floor space.
- Covered by OTC Lifetime Warranty®.



Shipped assembled

**1896**

### 25-Ton Capacity High-Speed Heavy-Duty Automotive Oil Filter Crusher

- Automotive and heavy-duty filters up to 15-1/4" long and 6" diameter are crushed in approximately 8 to 16 seconds. Filters are reduced to 20% of original size, with 95% of residual oil removed.
- Automatic cycle feature lets you load the filter, push a button, and walk away.
- Powered by 2 hp electric/hydraulic pump, 230 volt, 20 amp, 60 cycle, single phase, 3,450 rpm. Has a 2-gallon reservoir.
- Built-in, heavy-duty floor stand with leveling pads is designed to accept a 30-gallon drum for oil drainage. Comes assembled.
- Covered by OTC Lifetime Warranty®.

## 9300 STINGER SERIES BOTTLE JACKS GIVE YOU LIFTING RANGE FROM 2 TO 50 TONS.

- Forged base and cylinder to ensure strength and eliminate leaks.
- Chromed pump piston and ram for additional rust resistance.
- In-line design for increased ease of use in positioning and operation.
- Includes free seal kit with each unit to extend product life.
- ANSI/PALD compliant.



### OTC 9300 Stinger Series Bottle Jacks

Cap. (tons)	Stroke	OTC No.	Retracted Height min.	Length of Screw Extension	Height with Screw Extension	Pump Strokes to Extend Piston One Inch	Saddle Dia.	Base Size	Carry Handle	Weight
2	4-5/8"	<b>9302</b>	7"	2-3/8"	14"	8	13/16"	4-5/16" x 2-9/16"	No	5.7 lbs.
3	4-1/2"	<b>9303</b>	7-1/2"	2-9/16"	14-9/16"	13	15/16"	4-9/16" x 2 7/8"	No	7 lbs.
5	4-13/16"	<b>9305</b>	7-13/16"	3"	15-5/8"	20	1-1/8"	5-3/16" x 3"	No	9 lbs.
8	4-15/16"	<b>9308</b>	7-13/16"	3"	15-3/4"	21	1-3/8"	6" x 3-9/16"	No	13.2 lbs.
12	6"	<b>9312</b>	9-3/8"	3-1/4"	18-5/8"	21	1-3/4"	6-9/16" x 4-3/16"	Yes	18.9 lbs.
12	3-11/16"	<b>9314</b>	7-1/16"	2-7/8"	13-5/8"	21	1-3/4"	6-9/16" x 4-3/16"	Yes	16.1 lbs.
20	6-7/8"	<b>9320</b>	10-5/8"	2-15/16"	20-7/16"	28	2-1/8"	7" x 4-11/16"	Yes	28.6 lbs.
20	3-7/16"	<b>9322</b>	7-3/16"	1-11/16"	12-5/16"	25	2-1/8"	7" x 4-11/16"	Yes	22.5 lbs.
30	6-5/8"	<b>9330</b>	11"	N/A	17-5/8"	41	2-1/2"	7-11/16" x 6"	Yes	43.2 lbs.
50	7-3/16"	<b>9350</b>	11-3/4"	N/A	18-15/16"	74	2-1/2"	8-11/16" x 7"	Yes	76.5 lbs.



### 1750A 6000 lb. Revolver® Diesel Engine Stand

- 96-to-1 ratio worm and gear set rotates components 360°; handle locks in any position.
- Integral 12-ton jack raises the work to provide the swing radius needed for clearance.
- Two front wheels and two rear casters provide mobility.
- Includes 205061 universal mounting plate for use with individual engine adapter plates.
- Covered by OTC Lifetime Warranty®.



### 205059 Cummins Engine Adapter Mounting Plate

- Cummins Engine Adapter Mounting Plate for 1750A and 1750 diesel engine stands.
- No. 205059 - For Cummins engines: All NH, NTC, NTE, N14 855 series in-line 6 cyl.; 378 series V6; 504, 555, and 903 series V8; KT 1150 series in-line 6 cyl., L10.
- Mounting plate includes all the necessary hardware and an engine application chart.

NOTE: No. 205061 Universal Adapter Plate Assembly is required for use with all plates. (Included with 1750A engine stand.)



### 61405 Cummins Engine Adapter Mounting Plate

- Cummins Engine Adapter Mounting Plate for 1750A and 1750 diesel engine stands.
- No. 61405 - For Cummins L-10 and M11 series engines. Plate attaches to the left side of engine for complete teardown.
- Mounting plate includes all the necessary hardware and an engine application chart.

NOTE: No. 205061 Universal Adapter Plate Assembly is required for use with all plates. (Included with 1750A engine stand.)



### 205060 Caterpillar Engine Adapter Mounting Plate

- Caterpillar Engine Adapter Mounting Plate for 1750A and 1750 diesel engine stands.
- No. 205060 - For Caterpillar engines: Nos. 1673, 1674, 1693, 3306, and 3406 in-line 6 cyl.; Nos. 1100, 3208, 3408 V8 and 3406E.
- Mounting plate includes all the necessary hardware and an engine application chart.

NOTE: No. 205061 Universal Adapter Plate Assembly is required for use with all plates. (Included with 1750A engine stand.)



### 217687 Caterpillar Engine Adapter Mounting Plate

- Caterpillar Engine Adapter Mounting Plate for 1750A and 1750 diesel engine stands.
- No. 217687 - For Caterpillar 3114, 3116, and 3176 in-line 6 cyl. and C12 engines.
- Mounting plate includes all the necessary hardware and an engine application chart.

NOTE: No. 205061 Universal Adapter Plate Assembly is required for use with all plates. (Included with 1750A engine stand.)



### 206386 International Harvester / Ford Engine Adapter Mounting Plate

- International Harvester / Ford Engine Adapter Mounting Plate for 1750A and 1750 diesel engine stands.
- No. 206386 - For International Harvester engines: DT-466 (2004 and earlier), DT-360, DT408, and 530 in-line 6 cylinder; DV-550, MV-404, MV-446, V304, V345, V392, 4-152, 4-196, 4-194; 9.0 liter & T444E V8.
- Ford 6.9L, and 7.3L DIT.
- Mounting plate includes all the necessary hardware and an engine application chart.

NOTE: No. 205061 Universal Adapter Plate Assembly is required for use with all plates. (Included with 1750A engine stand.)



### 1735B 2,000 lb. Capacity Heavy-Duty 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.
- Covered by OTC Lifetime Warranty®.



### 1726A 1,000 LB. Capacity Engine Stand

A timesaver 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®.

### 60796

Drip pan (ABS material) for No. 1726A.



**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

### 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

### 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.

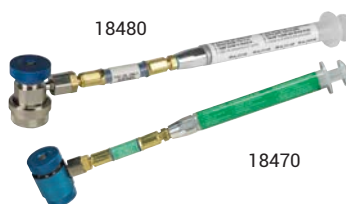
### LD7

- 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

### 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.

## R-1234YF Recovery Leaders



Features	AC1234-4	AC1234-6
Fully automatic operation - program for service, walk away and return when complete	Y	Y
Integrated refrigerant identifier (meets SAE J2927)	Y	Y
Charge accuracy within +/- .5 oz	Y	Y
Automatic internal tank refill - no stopping to fill internal tank during or before service	Y	Y
Liquid refrigerant flush function - flush A/C system components using liquid refrigerant instead of harsh chemicals	Y	Y
98.5% recovery efficiency	Y	Y
Programmable vacuum operation - quickly achieves necessary vacuum level in any condition	Y	Y
Automatic oil drain - shows how much oil was removed from the system during service	Y	Y
Automatic air purge - removes potential of air accumulating in the internal tank	Y	Y
System leak test to identify gross leaks in a system	Y	Y
Color graphical display	4.3" 480x272 QVGA color LCD	5.7" 960x240 QVGA color LCD
On-board printer	Optional	(Y) for future use
Ethernet Network Port	-	(Y) for future use
USB 2.0 Port	-	(Y) for future use
Audio jack	-	Y
Standard SD Card slot	Y	Y
Meets / exceeds SAE J2843 requirement for R-1234YF recover, recycle and recharge equipment	Y	Y

### New Vehicle Database Screens



34411-H  
134a database



34412-C  
134a database



34413-A  
1234yf database

#### Vehicle Database Screens R-134a Vehicle A/C Refrigerant Database 2018

- 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 1997-2018 using R-134a refrigerant and vehicle model years 2013-2018 using R-1234yf refrigerant 34413-A.
- Database helps ensure the vehicle system is charged with the correct amount of oil, per factory and OEM specification

**34411-H** – R-134a Vehicle A/C Refrigerant Database 2018. Compatible with legacy Robinair R-134a machines 34788, 34788-H, 34988.

**34412-C** – R-134a Vehicle A/C Refrigerant Database 2018. Compatible with new Robinair R-134a machines 34288NI, 34788NI, 34788NI-H, 34988NI.

#### R-1234yf Vehicle A/C Refrigerant Database 2018

**34413-A** – R-1234yf Vehicle A/C Refrigerant Database 2018. Compatible with new Robinair AC1234-4 R-1234yf recovery machine.



## HD A/C Recovery and Multi-Refrigerant Recover, Recycle and Recharge Machines

### 34888HD

The Robinair 34888HD heavy-duty machine recovers, recycles, evacuates, leak-tests and recharges R-134a with 98.5% efficiency in both small and large mobile air conditioning systems.

- Large capacity, removable 50-lb. tank and liquid pump for larger A/C systems, typically found in buses
- Nitrogen port to dry and leak test A/C systems
- Fully automatic recovery, system evacuation, leak testing, refrigerant charge and oil drain/inject
- Optional printer for capturing and retaining vehicle service data

**NEW**



### 17800C

The 17800C recovers, recycles, evacuates and recharges, all in one fast and continuous operation through one hook-up. It's ideal for mass transit vehicles, buses, refrigerated trailers or containers and other applications that use refrigerants not typically found in mobile applications.

- Automatically controls machine functions, leading the user through operations and also notifying when it's time to change the filter drier, and vacuum pump oil
- Automatically adjusts from liquid to vapor for fast and efficient recovery.
- Electronic scale makes it simple to recharge to factory specifications; also weighs recovered refrigerant and provides tank overflow protection.
- 5 cfm vacuum pump is large enough to thoroughly evacuate almost any system; making it ready for recharging.
- Manual air purge function to remove any non-condensable contaminants.
- Vacuum leak test function allows user to monitor the system for vacuum decay to determine if a leak exists in the A/C system.
- Automatic oil drain allows the user to see amount of oil removed from the system being serviced.
- Heavy-duty filter can handle up to 300 lbs. of refrigerant, effectively removing moisture and acid from the refrigerant.
- Easy to view 4.3" color graphical display.
- Maintenance counters to monitor cumulative amounts of refrigerant recovered and charged, as well as other machine operation variables.
- Optional printer can be added to expand capabilities and provide printed record of service performed.
- Compatible with R12, R22, R134A, R401A, R401B, R402A, R402B, R404A, R407A, R407B, R407C, R410A, R500, R502, and R507 refrigerants.



**NEW**

Prices limited to supplies on hand. Not responsible for errors in description or pricing. / 18-44 Q4 2018 edition, Printed in U.S.A.

### 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.



#### 2-Way Brass Manifold

### 45111

#### R134a Manifold Hose Kit

- 90° manual couplers
- 72" R134a hose set



### TIF-9010A

#### Slimline Programmable Scale

- Completely portable refrigerant scale, battery powered, can be used with all refrigerants.
- Extreme accuracy.
- 110 lb./50 kg capacity.



## 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

