

# MUSCLETOOLS

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

Q3 2020 Edition

OTC ROBINAIR actron BOSCH

## Q3 PROMOTIONS

All promotions valid 7/1/2020 - 9/30/2020, 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.

**Buy AC1234-9 or 34998, receive free ACS-250 and capacity database**



AC1234-9



34998

See pages 6-8

**PURCHASE AND REGISTER  
A NEW 3824A ESI[TRUCK]  
HD DIAGNOSTIC TOOL,  
RECEIVE A BOSCH  
HDS 250 SCANNER.**



1699200240

**FREE**  
HDS 250  
Scan Tool

See pages 4 and 5

**UP TO A  
\$1,000 REBATE**



Up to  
**\$500**  
Rebate

ADS 325 (SKU 3925)



Up to  
**\$1,000**  
Rebate

ADS 625 (SKU 3970)

**Purchase and register a new Bosch ADS diagnostic tool during the Promotional Period, receive:**

- ▶ \$250 rebate on Bosch ADS 325
- ▶ \$500 rebate on Bosch ADS 625

**Robinair A/C owner offer: Existing and new Robinair A/C machine owners\*, receive an exclusive rebate on the purchase and registration of a new Bosch ADS 325 or ADS 625.**

- ▶ Bosch ADS 325: \$500 rebate
- ▶ Bosch ADS 625: \$1,000 rebate

\*New Robinair A/C machine(s) and Bosch ADS purchased at the same time are eligible. A/C machines must be registered. Visit [boschdiagnostics.com/promotions](http://boschdiagnostics.com/promotions) for Robinair A/C machine models eligible for this offer.



**Bosch ADS 30-day money back guarantee**

If you are not satisfied with your new Bosch ADS tool, return it back to Bosch for a refund. See page 2 for more details.

## FREE OBD 1150 OR OBD 1200 WHEN YOU RENEW YOUR ADS DIAGNOSTIC SUBSCRIPTION



Free OBD 1150 with ADS 325  
software renewal (3925-SUB)



Free OBD 1200 with ADS 625  
software renewal (3970-SUB)

## PURCHASE A BOSCH SMT 300 SMOKE TESTER RECEIVE A \$300 REBATE

**\$300**  
Rebate



SMT 300 (F00E90029135E)

## PURCHASE AN OTC ENCORE AND GET YOUR CHOICE OF \$300 REBATE OR OTC BATTERY CHARGER



3893

✓ RECEIVE A \$300 REBATE OR A  
OTC BATTERY TESTER (3914)



3914 OTC  
battery tester

## Bosch ADS 30-day money back guarantee

If you are not satisfied with your new Bosch ADS tool, return it back to Bosch for a refund.\*\*  
For more information about the 30-day money back guarantee, call 1-855-BOSCHTECH (1-855-267-2483)

\*\* Offer valid on Bosch ADS 325 and ADS 625 tool purchases from January 1 through September 30, 2020. One return per customer. Bosch ADS tool must be registered, updated to latest version of software available and in like-new condition to qualify. Must call 1-855-BOSCHTECH (1-855-267-2483) and provide required information within 30 days of invoice date to start the return process. Refunded amount based on unit price, not to exceed published list price at time of return, plus applicable tax. Shipping, processing or other financial fees not included in refunded amount. Bosch not responsible for finance charges, payment plans. Leased tools and agreements not eligible. Promotions in this offer cannot be combined and not valid with any other promotions offered by Bosch Automotive Service Solutions Inc. Valid in US, the District of Columbia and Canada only. This promotion is void where prohibited, taxed or restricted. Bosch reserves the right to alter or cancel this promotion at any time.



THE ALL NEW  
**ADS 525X**

COMING SOON

Uncover the truth

# X marks the spot

Extreme flexibility. Extreme speed. Extreme Access.  
On the most advanced ADS yet.

## Advanced Vehicle Coverage

Fix the most vehicles with coverage and information for Domestic, Asian and European vehicles as far back as 1976.

## OEM Approved for Secure Vehicle Access

FCA certified for Secure Gateway Module (SGW) access.

## Flexible Subscriptions

Adjust your subscription for what you use most. Upgrade for enhanced repair information at any time.

## Ultra Fast Full System Scans with Quick-Scan

Complete vehicle scans in 60 seconds.

## Wireless J2534 VCI

Wireless gives you the freedom to move throughout the bay; J2534-compliant for factory programming with your OE subscription and PC.

## 8" High resolution display

Ultra crisp screen quality for easy viewing, even in bright daylight.

## Long-lasting battery life

Up to 14 hours of runtime and weeks of standby, giving you more time on tool and less time on the charger.

## Leading technology hardware and software

Offers peak performance on an expandable, future-proof platform. Powered by Android 9.

## Lifetime warranty

We've got you covered in the rare case something isn't working as it should.



SKU 3945



**BOSCH**

Invented for life

[boschdiagnostics.com](http://boschdiagnostics.com)



## 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

#### 3824A-TBL

##### Heavy Duty Tablet Upgrade

- ▶ Everything you need to upgrade an existing 3824 ESI[truck] Tablet to the new and improved 3824A model.
- ▶ Windows 10 Touchscreen tablet

**NEW**



#### 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

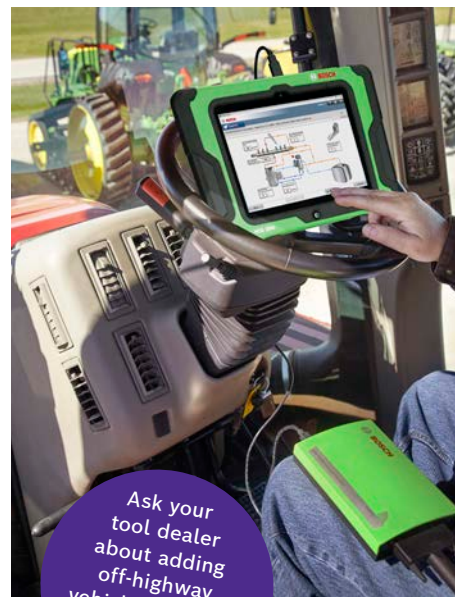
##### Kit contents:

- ▶ 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]



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

Off-highway cable upgrade kit and off-highway software only compatible with 3824A, 3824 and 3824BSC ESI[truck] 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)

## 3920 VET 100 Circuit Analysis Tool

Quickly identify electrical issues in failed circuits



3920

### Bosch VET 100 Circuit Analysis Tool

- ▶ Perfect tool for Data stream analysis using your scan tool
- ▶ Identify failed circuit component, wiring or PCM
- ▶ Simulates the sensor you are diagnosing by inputting a determined voltage at the sensor location
- ▶ Allows input voltage from .5VDC -7VDC in .5VDC increments
- ▶ Use your scan tool to verify if correct voltage is being applied to circuit
- ▶ Bypass sensor to send desired voltage back to PCM

### Works on computer controlled components including:

- ▶ Camshaft sensors and Crankshaft sensors
- ▶ Throttle body sensors
- ▶ MAF sensors and MAP Sensors
- ▶ Temperature sensors
- ▶ Parking sensors
- ▶ ADAS sensors
- ▶ Oil pressure sensors
- ▶ Transducer based components
- ▶ EGR signal voltage up to 5VDC
- ▶ Acc pedal voltage up to 5VDC
- ▶ Works with 12V and 24V systems with vehicle voltage displayed. Also includes a "flashing" low battery voltage indicator

## DAS 3000

### Automotive Safety System Recalibration

Vision Positioning System automatically measures vehicle distances and angles-ensuring precise camera and radar calibrations



## TPA 300

Grow your aftermarket solution with complete TPMS sensor coverage



NEW



3934

### Pair with any Bosch diagnostic tool to program new sensor IDs via OBD

- ▶ Activate and read TPMS sensor data, program sensors, check remote keyless entry signal and display sensor data in seconds
- ▶ Perform OBD II relearns within minutes when paired with a compatible Bosch manufactured diagnostic scan tool
- ▶ Full database of indirect, manual and auto relearn procedures
- ▶ Intuitive, full-color display with easy vehicle lookup by make, model and year
- ▶ Supports all known OE and aftermarket programmable sensors for all light vehicles
- ▶ New features, vehicles and sensor coverage added regularly
- ▶ Includes 3 years of free software updates

Compatible with any Bosch manufactured diagnostic tool



## 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.

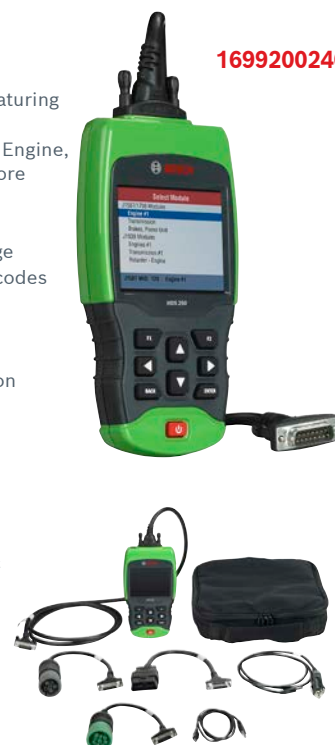
Cost-effective solution for aftermarket shops in need of heavy-duty coverage

### 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.



NEW

## Connected ACS machines

The largest touchscreens on the most trusted A/C machines in North America



### 34998 Connected R-134a RRR machine

- › Meets or exceeds SAE J2788 standards for R-134a recovery
- › Two oil inject bottles; one dye inject bottle

### AC1234-9 Connected R-1234yf RRR machine

- › Meets or exceeds SAE J2843 standards for R-1234yf recovery
- › Integrated refrigerant analyzer protects machine and vehicle system

### Both machines feature:

- › Industry-leading 10.5" hi-res touch screen with easy-to-use controls
- › Wi-Fi® and Bluetooth® connectivity for wireless accessories and performance enhancements
- › Legendary Robinair quality, field and service support
- › Made in Owatonna, Minnesota, USA with global components
- › Built-in training videos and speaker with web access for more training and A/C service info
- › ACS-250 wireless VCI and 80212 Bluetooth temp probe compatible
- › Includes wireless software updates and refrigerant capacity database access\*
- › Google Cloud Print(TM) with report export option for customers or insurance companies

\* Annual purchase of refrigerant capacity database software card or Product Authorization Code (PAC) code required to download new capacity database



NEW



### What wireless accessories fit my machine?

A/C Machine	A/C Capacities DB	Cover	Printer
34788, 34788-H, 34988	34411-K	17492	34988 only
34288NI, 34788NI, 34788NI-H	34412-E	17499	30038
34988NI	34412-E	17499	Included
34998	34001	17499	Google Cloud Print
AC1234-4	34413-C	17499	30038
AC1234-6	34414-A	17499	Included
AC1234-9	34002	17499	Google Cloud Print

#### Non-wireless A/C Machine

A/C Machine	VCI	Temp Probes
34288NI, 34788NI, 34788NI-H, 34988NI	80211VCI	80211TMP
34998, AC1234-9	—	—
AC1234-4	80211VCI	80211TMP
AC1234-6	—	—

#### Wireless Enabled A/C Machine

A/C Machine	VCI	Temp Probes
34288NI, 34788NI, 34788NI-H, 34988NI	ACS-250*	80213 or 80212*
34998, AC1234-9	ACS-250**	80213 or 80212
AC1234-4	ACS-250*	80213 or 80212*
AC1234-6	—	—

All machines use 34724 filter and 13172 maintenance kit

\*Use of ACS-250, 80212 or 80213 on NI or AC1234-4 requires machine first be WiFi/Bluetooth enabled using either 80211TMP or 80211VCI master kit

\*\*Database purchase required for vehicle refrigerant capacity



#### 80211VCI

##### Master kit + database

- › Enables WiFi and Bluetooth capabilities on NI and AC1234-4 machines
- › Wirelessly gather and transmit vehicle year, make and model info to your compatible Robinair machine
- › Includes current-year refrigerant capacity database to quickly determine correct refrigerant charge, oil type and oil capacity
- › Also reads generic OBDII codes to help troubleshoot A/C system issues

#### ACS-250

##### Robinair VCI

- › Wirelessly gather and transmit vehicle year, make and model info to your compatible Robinair machine
- › Works directly with 34998 and AC1234-9 connected AC machines; will work with NI and AC1234-4 machines if they have been WiFi/Bluetooth enabled
- › Requires purchase of refrigerant capacity database to show refrigerant capacity, oil type and oil amount
- › Also reads generic OBDII codes to help troubleshoot A/C system issues



#### Bluetooth temp probes

##### 80211TMP

##### Master kit

##### 80212

##### 2-pack

##### 80213

##### Single probe

- › Read and track temperatures from multiple locations from your A/C machine
- › 80211TMP master kit enables WiFi and Bluetooth capabilities on NI and AC1234-4 machines and includes 2 probes
- › Use up to 2 probes per compatible Robinair machine
- › 80212 / 80213 work directly with 34998 and AC1234-9 connected machines

## Find leaks and diagnose system issues faster

Connected accessories, leak detectors, refrigerant analyzers and tracer gas detectors for R-134a and R-1234yf service



#### LD7

##### Premium refrigerant leak detector

- › Detects R-1234yf and R-134a leaks for use on most vehicles
- › Sweep, bar graph and line graph modes make finding leaks faster, easier
- › Features audible detection alert, UV LED lights for use with UV dye and inspection light
- › Sensor life up to 10 years for reliable leak detection
- › Available as LD3 and LD5 versions



#### LD9-TGKIT

##### Tracer gas leak detector service kit

- › Use inexpensive Tracer gas instead of costly refrigerant to find leaks
- › Tracer gas is a 95% nitrogen, 5% hydrogen mixture and harmless to A/C systems
- › The LD9-TG detector sniffs out hydrogen, detecting leaks faster and at less cost
- › Kit includes 1234yf coupler, 134a coupler, Tracer gas detector, hose and Tracer gas regulator
- › Available as LD9-TG, Tracer gas detector only



#### 16995

##### R-ID Plus refrigerant analyzer

- › Analyze R-134a and R-1234yf refrigerant for purity and contamination
- › Prevent contaminated refrigerant from being pulled into your machine
- › Includes printer to add refrigerant purity to service report
- › R-134a and R-1234yf tank adapter; R-134a and R-1234yf hoses included
- › Available as 16990 R-ID without printer



#### EVDC®100

##### A/C Electronic Variable Displacement Compressor Tester

- › Eliminates misdiagnosing electronic variable displacement A/C compressors
- › Quickly diagnosis and verify valve function, lowering total repair time and costs
- › Adjustable tester output
- › Includes connect adapters for both old and newer style compressors
- › Heavy duty battery clips and cable provides power from vehicle battery, eliminating the need for batteries
- › Made in the USA

### 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	34998	AC1234-4	AC1234-6	AC1234-9
Fully Automatic Function: Program to recover, vacuum, leak test and charge without operating panel valves.	Manual Valves	✓	✓	✓	✓	✓	✓	✓
Automatic fluid drain/inject	Oil drain	Oil drain/inject*	Oil drain	Oil drain/inject, dye inject**	Oil drain/inject, dye inject**	Oil drain	Oil drain	Oil drain
Refrigerant & Oil Database: A/C system capacities for North American market vehicles (Optional – not included with the machine)	34412-E	34412-E	34412-E	34412-E	34001	34413-C	34414-A	34002
A/C System Flush: Flushes a vehicle's A/C system with refrigerant, eliminating any residual oil or other liquid. (Flushing adapters not included)	–	–	✓	✓	✓	✓	✓	✓
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.	–	✓	✓	✓	✓	✓	✓	✓
Visual & Audible Alarm: Notifies the user when service is complete, or if a problem has occurred.	–	✓	✓	✓	✓	✓	✓	✓
Vacuum Leak Test: Monitors level after evacuation, informs of possible leak.	–	✓	✓	✓	✓	✓	✓	✓
Automatic Air Purge: Eliminates system-damaging air without monitoring gauges or opening valves.	✓	✓	✓	✓	✓	✓	✓	✓
Automatic Refrigerant Refill: Maintains a user-selectable amount of refrigerant in an internal vessel and signals when it's time to change supply tank.	–	✓	✓	✓	✓	✓	✓	✓
Vacuum Feature: Defaults to 15 mins, programmable up to 99 mins. "Remaining time" is displayed.	✓	✓	✓	✓	✓	✓	✓	✓
Multilingual display	4.3" color LCD	4.3" color LCD	4.3" color LCD	7" color LCD	10.5" hi-res touch screen	4.3" color LCD	5.7" color LCD	10.5" hi-res touch screen
Refrigerant Charging:	Low only	High, low or both	High, low or both	High, low or both	High, low or both	High, low or both	High, low or both	High, low or both
Refrigerant Management System: Displays refrigerant use and monitors remaining filter life. Prompts appear when 1/3 of filter life remains.	✓	✓	✓	✓	✓	✓	✓	✓
Electric Vehicle: Capable of servicing high voltage electric compressor A/C systems.	–	–	✓	–	–	✓	✓	✓
Printer	30038	30038	30038	Included	Google Cloud Print	30038	Included	Google Cloud Print
Bluetooth temp probes: Dual-zone temp recording and reporting	80211TMP	80211TMP	80211TMP	80211TMP	80212 or 80213	80211TMP	N/A	80212 or 80213
Bluetooth VCI: Reads YMME and refrigerant capacity	80211VCI	80211VCI	80211VCI	80211VCI	ACS-250***	80211VCI	N/A	ACS-250***

\* One oil bottle. \*\* Two oil bottles and one UV dye bottle. \*\*\*ACS-250 requires purchase of 34001 or 34002 database to read YMME and display refrigerant capacity

### New 2019 A/C system capacity databases

#### Vehicle Database Screens R-134a Vehicle A/C Refrigerant Database 2020

- 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 1997-2020 using R-134a refrigerant and vehicle model years 2013-2020 using R-1234yf refrigerant.
- Database helps ensure the vehicle system is charged with the correct amount of oil, per factory and OEM specification

**34001** – R-134a database for 34998 R-machine

**34411-K** – R-134a database for 34788, 34788-H and 34988 machines

**34412-E** – R-134a database for 34288NI, 34788NI, 34788NI-H and 34988NI machines

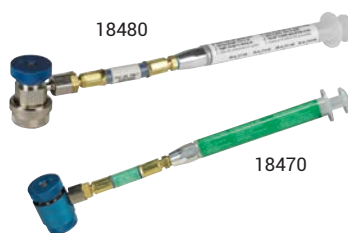
#### R-1234yf Vehicle A/C Refrigerant Database 2020

**34002** – R-1234yf database for AC1234-9 machine

**34413-C** – R-1234yf database for AC1234-4 machine.

**34414-A** – R-1234yf database for AC1234-6 machine

### 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** – R-1234YF oil injector, generic

**18465** – R-1234YF oil injector, PAG labeled

**18470** – R-1234YF oil injector, POE labeled

Not recommended for UV dye injection.

### Manifolds and Hose Set



#### 41234 R1234yf Aluminum Manifolds and Hose Set

- Easy-to-read 3-1/8" adjustable gauges.
- Durable aluminum manifold block with fittings.



#### 45111 2-Way Brass Manifold R134a Manifold Hose Kit

- 90° manual couplers
- 72" R134a hose set



## TESTED AND TRUSTED SAFETY FOR LIFE

ALL JACKS AND STANDS ARE COVERED BY A LIMITED LIFETIME WARRANTY



### WHY OTC?

- Lifetime warranty
- Jack design tested to comply with safety standards as defined by ASME PASE-2019
- Stand designs tested to comply with safety standards as defined by ASME PASE-2019
- Light-duty 2-ton to heavy-duty 22-ton capacities
- Padded handle to protect bumpers and rocker panels (LDJ Models Only)
- Product capacities durably marked for proper application

#### Proven to safely perform in all working environments

OTC jacks and stands are proven to meet the safety standard for Portable Automotive Service Equipment (PASE-2019). What does PASE mean to OTC? Every jack and stand design is tested to meet every PASE-2019\* test, not just one.

#### Service jacks undergo a series of 5 tests:

**Load Sustaining Test:** Jack will not inadvertently drop under load. REMEMBER: Use OTC Stands to support a load – not a jack.

**Load Limiting Test:** Jack will not lift a load beyond its rated capacity

**Release Test:** Jack can be lowered gently

**Periphery Test:** Jack avoids tipping when load is not centered on saddle.

**Proof Load Test:** Jack structure supports 150% of rated capacity

#### Jack stands are subject to 2 tests:

**Off Center Load Test:** Limits allowable deformation when stand is placed off center.

**Proof Load Test:** Stand structurally limits allowable deformation at 200% of rated capacity.

\*Bosch testing to ASME PASE-2019 standards, conducted in Owatonna, Minnesota January – October 2019

### Safely lifting and holding Class I, II and III vehicles up to 7 tons



LDJA2-SET



LDJ3



S03

S04

#### LDJA2 2-ton aluminum racing jack

- Lift compact sedans to small crossovers
- Light, sturdy aircraft aluminum with carry handles is ideal for service trucks and portability

#### SA02 2-ton aluminum jack stands

- Pin-style jack stand for fast, secure vehicle holding
- Aircraft aluminum construction for rust-free performance

#### LDJA2-SET 2-ton aluminum jack & stands

- Includes LDJA2 2-ton aluminum jack and SA02 2-ton aluminum stands

#### LDJ3 3-ton steel service jack

- For midsize SUVs and crossovers to full-size pick-ups
- Flanged upper body edge increases strength and durability

#### LDJ35 3.5-ton steel service jack

- Safely handles large SUVs and crossovers to 3/4-ton pick-ups
- Rolled edges add strength to resist twisting for larger loads

#### S03 3-ton steel jack stands

#### S04 4-ton steel jack stands

- Ratcheting design cannot be released under load
- Formed and welded steel base with baked enamel finish for strength, corrosion resistance
- S03 and S04 sold as a pair

### Service jacks



	LDJA2	LDJ3	LDJ35
Capacity	2-ton	3-ton	3.5-ton
Lifting range	3-1/4" (saddle removed) - 18-5/8"	5-3/4" to 18-1/2"	5.2" to 21.9"
Padded handle length	47.6"	39-1/2"	50" spring-loaded padded lower handle
Footprint	11.875" x 25.125"	13.4" x 24.5"	14.5" x 28.5"
Reach	72.75"	63.9"	78.5"
Saddle	4-1/2" dia., round	4" dia., steel crown	6" dia., flat steel, rubberized, pinned to lifting arm
Casters	4; 2.5" front fixed (2), 1.75" rear swivel (2)	4; 3.5" front fixed (2), 2.36" rear swivel (2)	4; 3.15" front fixed (2), 2.5" rear swivel (2)
Frame height	6"	6.3"	6.25"
Jack pack	LDJA2-SET, includes SA02 jack stands, pair	N/A	N/A

### Jack stands



	SA02 (sold as a pair)	S03 (sold as a pair)	S04 (sold as a pair)
Capacity	2-ton	3-ton	4-ton
Max height	15.44"	17-11/16"	23-13/16"
Min height	9-1/2"	12"	15-1/2"
Footprint	7" round base	8-1/4" x 7-1/2" square base; welded foot pads	Square base; welded foot pads
Adjustment	Pin lock; 6 slots	Ratcheting; 11 teeth	Ratcheting; 11 teeth
Saddle	Flat-top style, 2.17" x 2"	V-notch style, 1" x 3.5"	V-notch style, 1.3" x 4.3"

### Covering the big classes for lifting it all

HDJ5



#### HDJ5 5-ton hydraulic service jack

- Designed to safely lift step vans and bucket trucks
- 3-position handle lays flat, 45° or 90° for storage and use

#### HDJ5P 5-ton hydraulic service jack with air-assist

- Same as HDJ5, with air/hydraulic assist to reduce effort to raise, lower vehicles

HDJ10



#### HDJ10 10-ton hydraulic service jack

- Ideal for bucket trucks and school buses
- Rugged steel frame and extra-large wheels for durability and strength

#### HDJ10P 10-ton hydraulic service jack with air-assist

Same as HDJ10, with air/hydraulic assist to reduce effort to raise, lower vehicles

HDJ20



#### HDJ20 20-ton hydraulic service jack

- 3-position spring-loaded handle can lay flat, 45° or 90°
- Foot and hand pump options to raise load quickly

### 5, 10, and 20-ton heavy-duty jacks



5, 10, 20-ton heavy-duty jacks	HDJ5	HDJ5P	HDJ10	HDJ10P	HDJ20
Capacity	5-ton	5-ton air-assist	10-ton	10-ton air-assist	20-ton
Lifting range	6" to 22"	5-7/8" to 22"	6.3" to 22"	6-3/8" to 22"	7-1/2" to 23.8"
Air pressure	—	80–120 PSI	—	80–120 PSI	—
Handle length	43" 3-position with lock and release controls	45.4" 3-position with lock and release controls	43-1/4" 3-position with lock and release controls	45.4" 3-position with lock and release controls	47-1/2", 3-position spring-assisted locking
Footprint	15" x 56"	14.2" x 55.5"	18" x 60"	18.9" x 60.8"	18-1/8" x 61-3/8"
Reach	47"	87"	51"	90"	110.4"
Saddle	5-1/8" dia., round	5.1" dia., round	6" dia., round	5-3/4" dia., round	6-1/2" dia., steel crown
Casters	4; 4.4" fixed front (2), 2.8" mid-body swivel (2)	4; 4.4" fixed front (2), 2.8" mid-body swivel (2)	4; 5.6" fixed front (2), 3.6" mid-body swivel (2)	4; 5.6" fixed front (2), 3.6" mid-body swivel (2)	6; 4 front fixed; 2 mid-body swivel
Frame height	7.9"	7.5"	9.8"	9.8"	10.2"





**S06 6-ton steel jack stands**  
**S012 12-ton steel jack stands**

Ratcheting design cannot be released under load

- Formed and welded steel base with baked enamel finish for strength, corrosion resistance



**S020 20-ton steel jack stand**

- Large 15-1/2" square base safely holds up to 40,000 lbs
- Dual pin-style stand with four adjustment positions



**S022 22-ton steel jack stands**

- 11" flat square base prevents sinking into concrete or other surfaces
- Large flat base rated to safely hold up to 44,000 lbs
- Pin Style Stand with 3 adjustment positions

Heavy-duty stands	S06 (sold as a pair)	S012 (sold as a pair)	S020 (single)	S022 (sold as a pair)
Capacity	6-ton	12-ton	20-ton	22-ton
Max height	23-11/16"	27-1/2"	24"	19-7/8"
Min height	15-5/8"	17-1/2"	15-1/4"	13-7/8"
Footprint	11-9/16" x 10-3/8" square base; welded foot pads	12-1/8" x 10-7/8" square base; welded foot pads	15-1/2" square base	11" square base, flat for maximum ground contact
Adjustment	Ratcheting; 11 teeth	Ratcheting; 11 teeth	Dual-pin; 4 slots	Pin-style; 3 slots in 3" increments
Saddle	V-notch style, 1.2" x 4.2"	V-notch style	6" dia., round steel	3" x 3-3/4" V-notch



**UA22 22-ton under-axle hydraulic service jack**

- Includes 3 saddle attachments for height adjustment; 3/4" saddle; 1-15/16" saddle; 3-7/8" saddle
- Self-retracting ram activated with handle-end controls

UA22 22-ton under-axle hydraulic service jack	UA22
Capacity	22-ton
Air pressure	90 - 145 PSI
Max height	20-2/3" with longest saddle
Min height	8.27"
Handle length	47.24" T handle with lowering lever and air-chuck hook
Footprint	22.63" x 11.73"
Reach	69.87"
Saddle	3" dia., round with center notch, includes 3 lengths
Frame height	8.27"
Wheels	2 fixed; 7.88" rubberized steel



### 1750A 6000 LB. Revolver Diesel Engine Stand

- 96 to 1 ratio worm and gear set rotates components a full 360°; handle locks in any position.
- Includes 205061 universal mounting plate for use with individual engine adapter plates.

**NEW**



**1750-47022**  
Detroit Diesel



**1750-4940 \***  
Navistar / IH



**1750-4649 \***  
Navistar / IH



**1750-4789 \***  
Navistar

## New Navistar and Detroit Diesel adapters

Item	Description	Application	Brand	Component	Requires use of 205061 plate *
<b>1750-4940</b>	Navistar / IH MaxxForce engine adapter plate	2010 - 2016 Navistar MaxxForce DT, MaxxForce 9, MaxxForce 10 engines	Navistar / International Harvester	Engine	Yes
<b>1750-4649</b>	Navistar / IH MaxxForce engine adapter plate	2004 - 2009 International Harvester DT466, DT570, HT570; Navistar MaxxForce DT, MaxxForce 9, MaxxForce 10 engines	Navistar / International Harvester	Engine	Yes
<b>1750-4789</b>	Navistar MaxxForce engine adapter plate	2007 - later MaxxForce 11, MaxxForce 13 engines	Navistar	Engine	Yes
<b>1750-47022</b>	Detroit Diesel MBE 900 engine adapter plate	Detroit Diesel 2004 - 2007 MBE 900 engines	Detroit Diesel	Engine	No



### 5015A Truck Clutch and Flywheel Handler

- Handles 14" and 15-1/2" clutch assemblies weighing up to 150 lbs.
- Lifting range of 9" to 37". Swivel casters provide easy maneuverability.
- Includes a 2" spline shaft with a 1-1/4" pilot to aid in alignment.



### 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®.



### 5295 Powertrain Lift

The sliding split table top design of this powertrain lift allows for separation of the engine/transmission assembly or hybrid engine/generator module, making service easier. The unique design also helps handle removal and installation of electric vehicle batteries, fuel tanks, suspension systems and other powertrain assemblies.

A generous ground clearance allows for floor crane access while a low collapsed height aids in servicing large components while still on the lift. The table tilts to help properly align components to the vehicle during installation and threaded holes in the tabletop accommodate future adapters and powertrains.

- 1,760-lb capacity • 36" x 42" tabletop • 21.5" minimum height • 70" max height

Similar to GM lift P/N GE-52200 and Honda lift P/N HON52200.

**NEW**



### 600011 Splined Shaft Adapter for 5015A

Optional splined shaft adapter for Eaton Fuller UltraShift Plus Transmission, 14 Spline, 2" OD, 1.18" Pilot. For use with the 5015A Clutch Handler and 1797 Trans Jack HD Clutch Adapter.

### 600007 Clutch Handler Shaft Adapter

Adapter for attaching Splined Shafts for the 5015A Clutch Handler to the 5018A Clutch Handler.

**NEW**



### 600005 Splined Shaft Adapter for 5018A

Optional splined shaft adapter for Eaton Fuller UltraShift Plus Transmission, 14 Spline, 2" OD, 1.18" Pilot. For use with the 5018A Clutch Handler. Includes part number 600007 clutch handler shaft adapter allowing splined shafts designed for the 5015A to be used on the 5018A.

**NEW**



### 5295-DA Powertrain Lift Differential Adapter Set

Adapters mount to OTC 5295 powertrain lift table for proper handling of differential axle assemblies during servicing. Two axle tube stands support each side of the axle housing, while the pinion adapter stabilizes the differential from rotating. The pinion adapter features a reversible head that supports many different pinion and housing shapes and sizes. All adapters are height adjustable and feature hook points to attach the hold down strap to keep the axle assembly firmly positioned.



NEW

### 5605-DG

#### Deluxe Digital Compression Tester Kit

The OTC 5605-DG Deluxe Digital Compression Tester Kit helps determine the mechanical condition of the engines' cylinders. The digital gauge is easy to read and can display pressures in PSI, kPa, bar and kg/c. It also can measure, record and playback compression readings on up to 12 cylinders, for quicker testing and diagnosis. Specialized adapters work on both flat and tapered seat plugs. A convenient push-button side release valve relieves pressure for repeat testing.

The kit includes standard and specialty adapters, including the deep well connector used on recessed plug well style heads and the Ford Triton engine adapter using 16mm thread plugs. Stored in a blow-molded case to organize all adapters and protect the digital gauge head. Works on gasoline engines including domestic, import, motorcycle, marine, snowmobile, ATV's, and small engines.

##### Features and benefits:

- Corrosion resistant nickel plated finish
- Adapters work on both flat and tapered seat plugs
- Extra long 26" flex hose gauge assembly with quick coupler, allows easy viewing out of cluttered engine compartment
- 2-1/2" digital gauge features a backlit LCD and rugged protective outer boot
- Measurement range of 3-300 PSI and 0-2100 kPa. Also displays in bar and kg/c



NEW

### 5606-DG

#### Digital Compression Tester Kit

The OTC 5606-DG Digital Compression Tester Kit helps determine the mechanical condition of the engines' cylinders. The digital gauge is easy to read and can display pressures in PSI, kPa, bar and kg/c. It also can measure, record and playback compression readings on up to 12 cylinders, for quicker testing and diagnosis. Specialized adapters work on both flat and tapered seat plugs. A convenient push-button side release valve relieves pressure for repeat testing.

The kit includes standard and specialty adapters, stored in a blow-molded case to organize all adapters and protect the digital gauge head. Works on gasoline engines including domestic, import, motorcycle, marine, snowmobile, ATV's, and small engines.

##### Features and benefits:

- Corrosion resistant nickel plated finish.
- Adapters work on both flat and tapered seat plugs.
- Extra long 26" flex hose gauge assembly with quick coupler, allows easy viewing out of cluttered engine compartment.
- 2-1/2" digital gauge features a backlit LCD and rugged protective outer boot.
- Measurement range of 3-300 PSI and 0-2100 kPa. Also displays in bar and kg/c



NEW

### 5606-DGH

#### Digital Compression Gauge Head and Boot

The OTC 5606-DGH digital compression gauge head can replace analog gauges to provide advanced features, including measure, record and playback of compression readings on up to 12 cylinders, for quicker testing and diagnosis. The gauge head can directly replace any 2-1/2" analog gauge with a 1/4" NPT male thread. Upgrades current compression gauge with exact, numeric measurements. The digital gauge is easy to read and can display pressures in PSI, kPa, bar and kg/c. A convenient push-button side release valve relieves pressure for repeat testing.

Upgrade your 5605 or 5606 compression tester with a digital gauge for easier, faster compression readings. Also fits other compression testers with 14mm thread.



### 5605

#### Deluxe Compression Tester Kit

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

##### Features and benefits:

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



### 5606

#### Compression Tester Kit

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

##### Features and benefits:

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



### 5609

#### Cylinder Leakage Tester Kit

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

##### Features and benefits:

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







**5610**

### Transmission/Engine Oil Pressure Kit

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

#### Features and benefits:

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



**5613**

### Vacuum/Pressure Gauge Kit

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

#### Features and benefits:

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



**5604**

### Motorcycle Compression Tester Kit

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

#### Features and benefits:

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



**5630**

### Fuel Pressure Tester Kit

Quickly and easily locate any malfunctioning fuel system component, including fuel filters, pressure regulators, fuel lines, and fuel pumps without removing it from the vehicle.

#### Features and benefits:

- Large, easy-to-read 0-100 psi scale, 0-700 kPa.
- Solid brass fittings.
- Pressure relief valve for safe, clean testing.



**5607**

### Compression Tester Ford 14mm Adapter

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

- Works on 2004 and 2007 Ford 4.6 and 5.4 L, V-8, 3 valve engines.
- Easy-to-turn feature makes starting thread fast.
- Use with compression testers with 14 mm thread.



**5603**

### Compression Tester - Deep Well Connector

Use with OTC compression testers or other compression testers.

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



**5608**

### Compression Tester Ford 12mm Adapter

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

- Works on 2008 and newer Ford 4.6, 5.4 and 6.8L 3-valve engines with 12mm spark plugs
- Easy-to-turn feature makes starting thread fast





## 6550PRO Pro Master Fuel Injection Service Kit

Covers 100% of vehicles sold in North America '97-'13.

Perform fuel pressure testing, diagnose weak fuel pumps or restricted filters, test for fuel flow and perform leak-down tests. Use to clean injectors and intake systems. Kit includes:

- 0 – 100 PSI Fuel Pressure Gauge.
- 47 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.



## 6508 Full-Coverage Disconnect Tool Set

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



## 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.



## 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 pinchoff tool for hard-to-reach hoses.

2004\_959 Muscle Tools Q3 2020 edition, Printed in U.S.A.

### NEW FORD, LINCOLN, MERCURY TOOLS

#### TOOL

#### APPLICATION

#### USE



## 6886 Crankshaft front seal and wear ring remover

2003-2007 F-250, F350, F-450, F-550, Excursion;  
2004-2007 F-650, F-750; 2004-2010 E150, E-250,  
E-350, E-450; 6.0L and VT365-MaxxForce7  
Navistar International

Removes the front seal and wear ring  
from crankshaft without damage  
Similar to 303-762



## 6879 Locknut pin remover

Application: 2009 - Later select Ford, Lincoln  
and Mercury vehicles

Removes the locknut roll pin. Threaded  
tip grips the inside of the roll pin. Slide  
hammer action pulls the pin out.  
Similar to 211-061.



## 6884 Crankshaft rear seal and wear ring remover

2003-2010 F-250, F350, F-450, F-550, Excursion;  
2004-2007 F-650, F-750; 2004-2010 E150, E-250,  
E-350, E-450, and Low Cab Forward; 4.5L, 6.0L,  
6.4L and VT365-MaxxForce7 Navistar International

Removes the rear seal and wear ring  
from crankshaft without damage  
Similar to 303-771.



## 6883 Pinion flange holding tool

Most Ford, Lincoln and  
Mercury vehicles

Holds the pinion drive flange with bolt  
centerlines up to 2-5/8". Includes 5/16"  
and 3/8" bolts, nuts and washers to fit  
most drive pinion flanges.  
Similar to 303-126