

# MUSCLETOOLS

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

Q2 2021 Edition

OTC ROBINAIR actron BOSCH

## Q2 PROMOTIONS

All promotions valid 4/1/2021 - 6/30/2021, unless otherwise stated. Some restrictions may apply. For promotion details and to redeem, visit [Boschrebates.com](https://www.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.

Try a Bosch ADS or ADS X, *risk-free*

## 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 525X, ADS625X, ADS 325 and ADS 625 tool purchases from January 1, 2021 through June 30, 2021. One return per customer. Bosch ADS or ADS X 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.

NEW

## New A/C machines with integrated scale lock

Lock secures refrigerant scale for safe transport.  
Protects scale during mobile and agricultural vehicle service.

AC1234-4SL for R-1234yf and 34988NI-SL for R-134a



34988NI-SL





# Sure, calibrate with a tape measure.

Just try not to scrape your knuckles on the ground in the process.

The superior and highly evolved ADAS workflow can guide you from setup through calibration in half the time.



No  
tape  
measures



No  
plumb  
bobs



No  
mirrors



**BOSCH**

Invented for life

Uncover the truth about the superior solution  
at [boschdiagnostics.com/adas](https://boschdiagnostics.com/adas)



ALL-NEW ADS X

# Turn your diagnostic powers into superpowers.

Go from technician to superhuman diagnostic machine with your new secret weapon. Just remember, with great power comes great diagnosability.



## Extreme speed

- ▶ All-system scans on average under 60 seconds
- ▶ Redesigned wireless VCI for faster, more efficient diagnosing

## Extreme flexibility

- ▶ Battery life for days
- ▶ Modular software subscriptions for what you need most

## Extreme access

- ▶ 100% OE-approved for security gateway
- ▶ Industry-leading vehicle coverage back to 1976

Uncover the truth about the all-powerful X  
[boschdiagnostics.com/ads-x](https://boschdiagnostics.com/ads-x)



**BOSCH**  
Invented for life



## 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

#### 3824-08

##### ESI[truck] 1-Year Renewal License

- ▶ 1-Year (12-month) renewal license for existing ESI[truck] user.

#### BAT155

##### Heavy Duty Battery and Electrical System Analyzer

The BAT 155 is an advanced heavy duty battery & electrical system tester designed for the commercial vehicle industry. Featuring patented single load, dynamic resistance technology that provides fast and accurate results.



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



**NEW**



**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

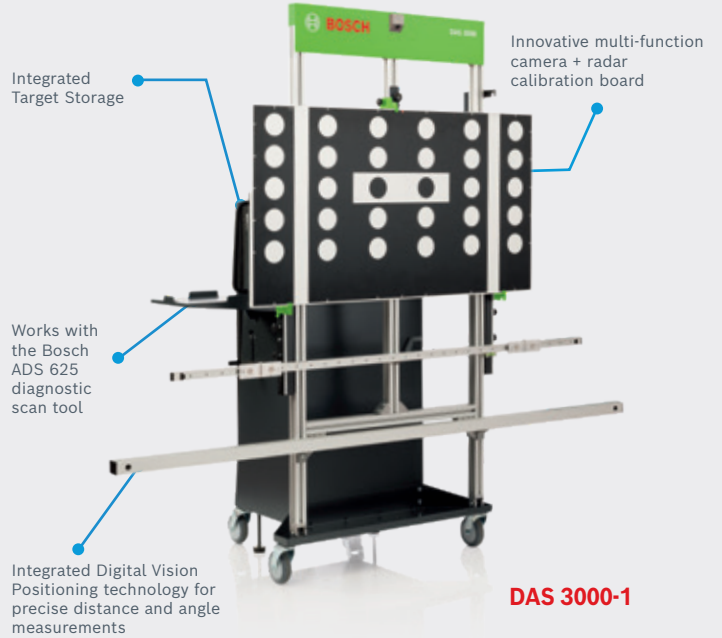
### Works on computer controlled components including:

- ▶ 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 3000-1

### ADAS Recalibration System

A complete ADAS recalibration package that enables shops to quickly, easily and precisely recalibrate Automated Driver Assist System



DAS 3000-1

## 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.



1699200240





**NEW**

**ROBINAIR**

## Trusted Robinair platform, new features

**Introducing the new AC1234-4SL  
and 34988NI-SL machines with  
integrated scale lock**

The mechanical scale lock protects the scale during transport for mobile or agricultural service.

Special tie-down points and guidelines ensure your machine is safe and secure for mobile service.

Both machines feature legendary Robinair quality, the largest nationwide support and service network, automatic oil drain and patented automatic internal tank refill for more efficient service.



**34988NI-SL**

## Built-in WiFi, Bluetooth and Android OS

### **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\*
- › Mopria Print Service wireless printing 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



### What wireless accessories fit my machine?

A/C Machine	A/C Capacities DB	Cover	Printer
34788, 34788-H, 34988	34411-L	17492	34988 only
34288NI, 34788NI, 34788NI-H	34412-F	17499	30038
34988NI	34412-F	17499	Included
34998	34001	17499	Mopria Print Service wireless printing
AC1234-4	34413-D	17499	30038
AC1234-6	34414-B	17499	Included
AC1234-9	34002	17499	Mopria Print Service wireless printing

#### 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



#### 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

#### 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



#### Bluetooth temp probes

##### 80212 2-pack

##### 80213

##### Single probe

##### 80211TMP

##### Master kit

- › 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 identifier/ 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-F	34412-F	34412-F	34412-F	34001	34413-D	34414-B	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	Mopria Print Service wireless printing	30038	Included	Mopria Print Service wireless printing
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-L** – R-134a database for 34788, 34788-H and 34988 machines

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

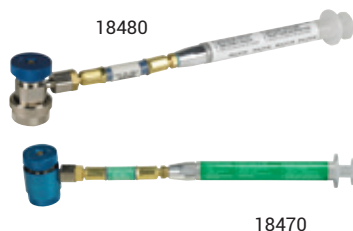
#### R-1234yf Vehicle A/C Refrigerant Database 2020

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

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

**34414-B** – 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



## UNDERHOIST AND SUPPLEMENTARY STANDS WITH A LIMITED LIFETIME WARRANTY

MEETS ASME PASE-2019 SAFETY STANDARDS

### UH15 1,500-lb capacity underhoist stand / UH15FP 1,500-lb capacity underhoist stand with foot pedal

- Threaded rod for easy adjustment lowering and raising to work height
- 11-7/8" flat round base makes full ground contact for stability
- Freestanding support stand aids in R&I of transmissions, radiators, driveshafts, exhaust systems and more
- Not intended to stabilize or support vehicles
- UH15FP includes foot pedal for hands-free adjustment and quickly raises saddle to work height

SPEC	UH15	UH15FP
Capacity	1,500 lbs	1,500 lbs
Max. Height	80.75"	80.75"
Min. Height	54.25"	54.25"
Footprint	11-7/8" flat round	11-7/8" flat round
Adjustment	Threaded rod with T-handle	Foot pedal assist and threaded rod with T-handle
Saddle	5-1/4" x 1-1/4" U-shape	5-1/4" x 1-1/4" U-shape



## Power Train Lifts

- These lifts will handle engine and transmission assemblies, gas tanks, drive axle assemblies, engine/transaxle assemblies, electric vehicle batteries, and more.
- Scissors-type design allows access to all four sides of a component.
- Two independent adjusting screws tilt the table  $\pm 15^\circ$  side-to-side, or fore and aft. Can be operated manually or with non-impact air wrench.
- 20" x 32" table.
- 8" swivel casters provide enhanced mobility under heavy loads.
- ANSI/PALD compliant.

### 5285

#### Power train lift (1,650 lb. Capacity)

Air / hydraulic operation – Foot control pump with hose allows movement around lift.

- Min. height is 31-1/2"; Max. height is 74-1/2".
- Footprint 33" wide x 48" long.

### 1595A

#### Power train lift (2,500 lb. Capacity)

Powered by an Air/Hydraulic pump.

- Smooth, steady lifting and lowering motion.
- Min. height is 29"; Max. height is 80"
- Footprint 31" wide x 50" long.



5285 extended

Casters provide a 9-1/2" clearance on lower frame



5285 collapsed



### Safely lifting and holding Class I, II and III vehicles



LDJA2-SET

#### 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

#### 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

#### S03 3-ton steel jack stands

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



### Service jacks

Capacity	2-ton	3-ton	3.5-ton
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Jack pack	LDJA2-SET, includes SA02 jack stands, pair	N/A	N/A
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### Jack stands



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



**LDJA2-SET** Includes LDJA2 2-ton aluminum jack and SA02 pair of 2-ton capacity aluminum stands



### 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

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



5, 10, 20-ton heavy-duty jacks	HDJ5	HDJ5P	HDJ10	HDJ10P
Capacity	5-ton	5-ton air-assist	10-ton	10-ton air-assist
Lifting range	6" to 22"	5-7/8" to 22"	6.3" to 22"	6-3/8" to 22"
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
Footprint	15" x 56"	14.2" x 55.5"	18" x 60"	18.9" x 60.8"
Reach	47"	87"	51"	90"
Saddle	5-1/8" dia., round	5.1" dia., round	6" dia., round	5-3/4" dia., round
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)
Frame height	7.9"	7.5"	9.8"	9.8"





S06

### S06 6-ton steel jack stands

Ratcheting design cannot be released under load

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



S022

### 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)	S022 (sold as a pair)
Capacity	6-ton	22-ton
Max height	23-11/16"	19-7/8"
Min height	15-5/8"	13-7/8"
Footprint	11-9/16" x 10-3/8" square base; welded foot pads	11" square base, flat for maximum ground contact
Adjustment	Ratcheting; 11 teeth	Pin-style; 3 slots in 3" increments
Saddle	V-notch style, 1.2" x 4.2"	3" x 3-3/4" V-notch



UA22

UA27

### 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

### UA27

#### 27.5-ton under-axle hydraulic service jack

- 4-position, 48" handle allows easy positioning under vehicles
- Two included saddle attachments increase lifting versatility

Under-axle hydraulic service jacks	UA22	UA27
Capacity	22-ton	27.5-ton
Air pressure	90 - 145 PSI	90 - 175 PSI
Max height	20-2/3" with longest saddle	21-3/8" using longest saddle
Min height	8.27"	8-1/4"
Handle length	47.24" T handle with lowering lever and air-chuck hook	48-3/4" T handle with lowering lever and air-chuck hook
Footprint	22.63" x 11.73"	22" x 12"
Reach	69.87"	69.87"
Saddle	3" dia., round with center notch, includes 3 lengths	3" dia., round with center notch. Includes 2 saddle adapters
Frame height	8.27"	8.27"
Wheels	2 fixed; 7.88" rubberized steel	2 fixed; 7.88" rubberized steel





### 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.



### 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.

7118

### Transmission Adapter Kit

Converts your OTC engine stand into a transmission service stand.



### 206391 6.0L and 6.4L Ford engine adapters

Works with both the OTC 1735, 1735A and 1735B.



### 206392 Ford 6.7L Engine Adapter for 1735B HD Rotor Repair Stand



### 1819 2,200 lb. Capacity Heavy-Duty Floor Crane

- 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.

**39610** – 1/4" steel chain grade 43, 18-3/8" long, 2,200 lb. capacity. Has safety hook on end. Use with 1819.



### 2002 2,000 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".

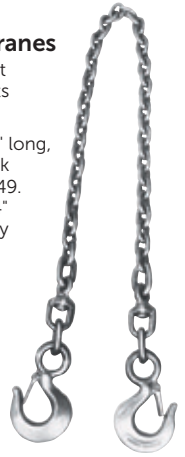
### Lifting Chains for Floor Cranes

For use with floor cranes only; not recommended for overhead hoists or lifts.

**38839** – 1/4" steel chain, 56-1/2" long, 2,000 lb. capacity. Has safety hook on both ends. Use with No. 205049.

**38840** – 5/16" steel chain, 65-3/4" long, 4,000 lb. capacity. Has safety hook on both ends. Use with No. 205050.

**31609** – 1/4" steel chain, 56-1/2" long, 2,000 lb. capacity. With swiveling safety hooks on both ends. Use with No. 1805.



### Alloy Chains for Overhead Lifts and Hoists

**302249** – 3/8" alloy chain, 28-3/8" long, 6,000 lb. capacity. With safety hook on one end.

**302941** – 5/16" alloy chain, 26-13/16" long, 4,000 lb. capacity. With safety hook on one end. Use on No. 1812.



### Heavy-Duty Adjustable Slings

For lifting and positioning engines, transmissions, etc. Each chain can be adjusted independently for length; plate design enables chain to be "short-hooked" for correct tilt.

**205049** – 2,000 lb. capacity sling with 1/4" chain, 56" long

**38841** – Plate only, use with any 1/4" or 5/16" alloy steel chain



### 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.



### 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.

**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 hook on each end. Pair of special lifting brackets included.

7100

### 4,000 lb. Capacity Lifting Brackets (pair)

Attach directly to component for easy lifting; will take 1/2" diameter bolts to a certain angle for a component being positioned.







4261

### Hendrickson Front Suspension Bushing Tool Kit

Suspension bushing tool kit used to remove and replace the leaf spring bushings on Hendrickson Airtex NXT front suspensions found on Freightliner Cascadia vehicles. The hydraulic cylinder and press plate assembly mounts to the leaf spring for hands free operation and eliminates the need to hold heavy equipment. Press plates and bushing adapters are specifically designed to fit the front leaf spring and bushing. Includes an OTC 4106A 25-ton single acting cylinder.



4275

### Hendrickson Front Suspension Bushing Tool Kit

- Replace rusted and frozen heavy-duty front suspension bushings faster and easier.
- Patent-pending design is suspension-mounted, eliminating the need to hold the tool during operation.
- Remove and install Hendrickson PACCAR Monoleaf, Navistar Monoleaf, Volvo Monoleaf suspension Pivot Bushings.
- Save time and effort during suspension service to get trucks back on the road faster.
- Included adapters align tool with the suspension to ensure proper bushing installation and reduce the chance of misalignment and bushing damage.
- Includes an OTC 4106A 25-ton high-force cylinder and a OTC 2510A air/hydraulic pump to make bushing service faster and easier.



4247

### Hendrickson Rear Suspension Bushing Tool Kit

This all-new rear suspension bushing tool for Heavy Duty vehicles makes Pivot and D-pin bushing removal and installation easier tasks. Because the patented design allows the tool to be mounted to the suspension piece, the weight of the tool does not need to be held in place during operation. It also includes centering adapters that align the tool and reduce the likelihood of bushing damage or improper installation. With the included OTC 4106A 25-ton cylinder, even bushings covered in road dirt and salt are easy to replace.

This master kit version of the tool includes an OTC Stinger Series 2510A Air/Hydraulic Pump and the needed hose and couplers to make it ready to use right out-of-the-box.



4244

4245



### Freightliner Rear Suspension Tool

- Removes and installs single-wrapped FAS II Airliner Freightliner Rear Suspension bushings in a fraction of the time of traditional methods.
- Saves an average 45 minutes per bushing (4 per vehicle) on flat rate of 1.5 hours per bushing.
- 15 ton Capacity cylinder

**4244** - Freightliner Rear Suspension Tool

**4245** - Freightliner Rear Suspension Tool includes 2510A Air/Hydraulic Pump.



7367

7367

### Torque Multiplier, 1100 ft-lb

- Drive Input; 1/2", 365 lb-ft Max
- Drive Output; 3/4", 1100 lb-ft Max
- Head Width; 2.9", 3.3:1 Ratio
- Reaction Bar; 13-3/4"
- Includes reaction foot.
- Note; frictional gear loss = 6%

7368

### Torque Multiplier, 2200 lb-ft

- Drive Input; 3/4", 730 lb-ft Max
- Drive Output; 1", 2200 lb-ft Max
- Head Width; 3.6", 3.3:1 Ratio
- Reaction Bar; 15-5/8"
- Includes reaction foot.
- Note; frictional gear loss = 6%



5789ID-1032

5789ID-520

### Tire Service Hammers, Indestructible Handle

- Ergonomic rubber grip handle reinforced with steel bars resists breaking while absorbing impact and vibration.
- Use top hook as a wheel tipper; sledge end hook to drag tire into position.
- Bead breaking wedge has grooves and a convex shape to help drive tire lube into the bead.

**5789ID-520** - 5 lb. head, handle length 20", total weight 7.3 lbs.

**5789ID-1032** - 10 lb. head, handle length 32", total weight 14.4 lbs.

5693

### Dual/Single Wheel Separator

Quickly separate rusted, frozen or seized outside dual wheels or single wheels from the wheel hub. 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.



5735-35

### Double End Curved & Flat Tip Curved Tire Spoon, 35"

Double end curved tire spoon. Handle knob enables easier spoon pick up. 3/4" diameter.



5735-35G

### Double End Tire Spoon with Grip Grooves, 35"

Double end curved tire spoon. Handle knob enables easier spoon pick up. 3/4" diameter.



5735-42

### Double End Curved & Flat Tip Curved Tire Spoon, 42"

Same great design as the original double end mount/demount tire spoon, but in a 42" length for added leverage. 3/4" diameter.



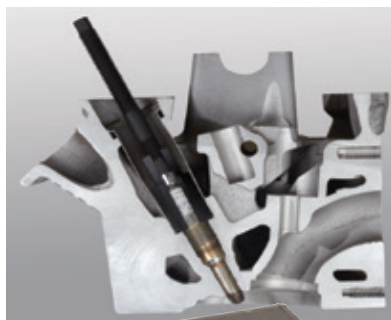
5735-42K

### Double End Tire Spoon with Kick Start, 42"

Includes kick loops to allow the spoon to be forced into tight bead locations with the help of foot pressure. 3/4" diameter.







**6918**

### Ford Spark Plug Remover Kit, 3V Engine

- Unique design helps prevent breakage by locking the plug porcelain core to the plug hex allowing it to turn as one complete unit.
- Will also pull plug porcelain core if plug hex only is removed.
- Detailed Instructions to maximize success rate.

Works on:

- Ford 4.6L 3V V8 engines used in 2005–2008 Mustang, 2006–2008 Explorer.
- Ford 5.4L 3V V8 engines used in 2004–2008 F-Series, 2005–2008 Expedition, 2005–2008 Lincoln Navigator.
- Ford 6.8L 3V V10 engines used in 2005–2008 F-Series 250–350–450.



**6900**

### Ford Spark Plug Socket

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



**7483A**

### Water Pump Puller Remover/Installer

Helps remove and install water pump pulleys faster and easier on specific Ford, Lincoln and Mercury 3.0L DOHC engines. The puller works on the below vehicles with a Ford 3.0 DOHC engine:

- Ford Escape 2001–2012
- Ford Fusion 2006–2012
- Ford Taurus 2001–2005
- Lincoln MKZ 2007–2012
- Mercury Mariner/Milan 2006–2011
- Mercury Sable 2001–2005



**NEW**

**7297**

### Oil Pressure and Prelube Adapter

Easily diagnose engine oil system issues. This adapter installs in place of the spin-on oil filter to allow existing oil pressure gauges to be attached to test oil system pressure. Can also be used to connect prelube equipment to the engine.

Applications include:

- 2005-later GM Gen IV engines; 4.8L, 5.3L, 6.0L, 6.2L
- 2005-later GM Gen V engines; 4.8L, 5.3L, 6.0L, 6.2L



**NEW**

**6756**

### Injector Seal Installer and Sizer Adapters

Ensure replacement injectors and seals are installed correctly. This kit installs the dual seals onto the end of the injector. These seals must be installed into their grooves, and then sized to the engineered dimension before the injectors are installed into their bores in the cylinder head. Kit includes: two seal installation pilots for each groove, a seal installer driver, and a compression sizer.

Applications include 2010-later GM engines found in many Buick, Cadillac, Chevrolet and GMC vehicles:

- |        |        |        |
|--------|--------|--------|
| • 1.4L | • 2.5L | • 5.3L |
| • 1.5L | • 3.0L | • 6.2L |
| • 2.0L | • 3.6L |        |
| • 2.4L | • 4.3L |        |

Note: Some 2014-Later injectors have larger injector tips which require 6707 Injector Seal Installer Adapters.



**NEW**

**6777**

### GM Duramax Injector Puller

Assists in removing injectors from the cylinder head without damaging the injector body. Similar to OE tool #EN-49774.

Applications include:

- 2011-later 6.6L Duramax Diesel and Isuzu engines



**NEW**

**6757**

### Injector Seal Installer and Sizer Adapters

Ensure replacement injectors and seals are installed correctly. This kit installs the Teflon seal onto the end of the injector. The pilot cone is placed onto the end of the injector and the seal is started over the cone. The installer pushes the seal into the groove on the injector tip. The sizer goes over the seal to compress it back to the correct OD to allow installation into the cylinder head.

Applications include: 1998 - 2014 GM engines with SIDI single-seal injectors, found in many Buick, Cadillac, Chevrolet and GMC vehicles.



**NEW**

**6740**

### Crankshaft Rear Seal Remover

Save time removing crankshaft rear seals, preventing damage to the block and crank. Prying the crankshaft seal out can damage expensive engine components. This seal remover is a special puller with three jaws designed to grab the inner lip of the seal. The forcing screw attached to the center plate is used to react against the crankshaft end to pull the seal out. This eliminates damage to the block and crank that prying the seal can cause.

Applications include GM 6.6L Duramax diesel engines found in:

- 2001-Later GMT800 platform vehicles, including Chevrolet Silverado and GMC Sierra 2500HD, 3500
- 2001-Later GMT900 platform vehicles, including GMC Sierra HD and Chevrolet Silverado HD
- 2006-2016 Chevrolet Express, GMC Savana



**NEW**

**6725**

### Belt Tensioner Compressor

Makes replacing engine drive belts and starter generators easier. This tool compresses the belt tensioner spring during engine drive belt replacement and starter generator servicing.

Applications include 2.4L GM eAssist engines found in:

- 2012 - 2016 Buick LaCrosse
- 2012 - 2017 Buick Regal
- 2011 - 2014 Chevrolet Malibu



## Electric Vehicle Charging Solutions

### EL-52503 EV400 Series Level 2 charging station

- ▶ 25' cable is the longest available for more versatility and installation locations
- ▶ NEMA 3R-rated enclosure for indoor or outdoor installation (Outdoor installation requires in-use cover over receptacle)
- ▶ SAE J1772 charging connector is compatible with all EVs in North America
- ▶ Movable, plug-in installation allows charging when you need it, leaving an open outlet when not charging
- ▶ Safely charges in all weather conditions - rain, snow, sleet, ice and extreme heat or cold
- ▶ Bracketless mounting for fast and easy installation
- ▶ Clear, bright LEDs indicate charging and power status, stop and reset functions



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### EL-50600-D EV810 Series Level 2 charging station

- ▶ NEMA4X-rated enclosure is weatherproof for safe charging in any weather or location
- ▶ Adjustable charging output allows for installation on circuits as small as 15 Amps, up to 40 Amps
- ▶ SAE J1772 charging connector is compatible with all EVs in North America
- ▶ Hardwire installation with wall-mount or pedestal options for commercial applications
- ▶ Plug-in installation with wall-mount option for household use
- ▶ Movable, plug-in installation option allows charging when you need it, leaving an open outlet when not charging



### EL-50650-GNT-B EV850 Series Single bollard charging station

- ▶ Includes one EV810 Series charging station in a galvanized steel bollard for parking lot and commercial use - 1/4" thick galvanized steel bollard protects against car bumpers, shopping carts and vandalism, protecting your investment
- ▶ NEMA4X-rated enclosure is weatherproof for safely charging in any weather or location
- ▶ SAE J1772 charging connector is compatible with all EVs in North America
- ▶ Hardwire installation and protective bollard creates safe, tamper-proof setup
- ▶ Also available as EL-50650-GNT-A EV860 Series Dual bollard charging station with two EV810 Series charging stations in a galvanized steel bollard

**Bosch charging stations are made in the USA from domestic and global components**