MUSCLE TOOLS

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

Q2 2022 Edition

OTC ROBINAIR actron BOSCH

Q2 PROMOTIONS

All promotions valid 04/01/2022-06/30/2022, unless otherwise stated. Some restrictions may apply. For promotion details and to redeem, visit 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 X or 3824A *risk-free*
Bosch diagnostic scan tool 30-day money back guarantee

If you are not satisfied with your new Bosch ADS X or Heavy Duty 3824A tool, return it back to Bosch for a refund.*
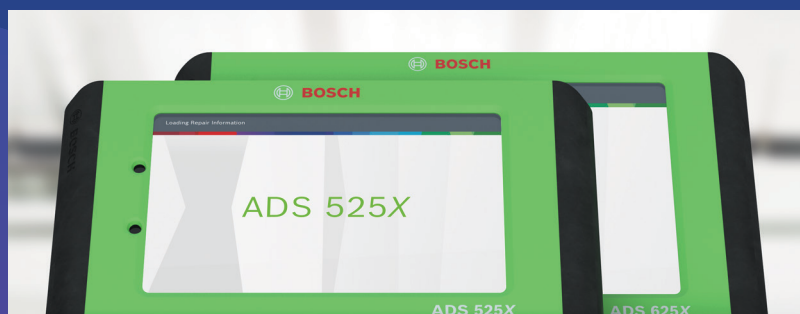
ADS 525X (SKU 3945)

ADS 625X (SKU 3975)

ESI[truck] (SKU 3824A)

*For more information about the 30-day money back guarantee, call 1-855-BOSCHTECH (1-855-267-2483) or visit boschdiagnostics.com/promotion

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Bosch ADS X
Limited Time Promotion

ADS 525X (SKU 3945)

ADS 625X (SKU 3975)

Purchase and register an ADS 525X, receive choice of a free Circuit Analysis Tool or Battery System Tester

Free Circuit Analysis Tool or Battery System Tester

VET 100 (SKU 3920)
$259 value

BAT 120 (SKU 1699501320)
$259 value

Purchase and register an ADS 625X, receive choice of a free TPMS Tool, Circuit Analysis Tool or Battery System Tester

Free TPMS Tool, Circuit Analysis Tool or Battery System Tester

TPA 300 (SKU 3934)
$789 value

VET 100 (SKU 3920)
$259 value

BAT 120 (SKU 1699501320)
$259 value

NEW! CONNECTED ADAPTERS HOLD TIGHT DURING BALL JOINT SERVICE

NEW

- CA7149 starter kit with 7 adapters
- CA6630 professional kit with 25 adapters

The best techs working together with the best products.

A complete lineup of connected diagnostic solutions that work together seamlessly to solve complex, cross-functional problems at every stage of the repair process. Engineered to optimize troubleshooting, boost efficiency, and alleviate tedious tasks while empowering you to focus your expertise on delivering quality repairs with precision and confidence.
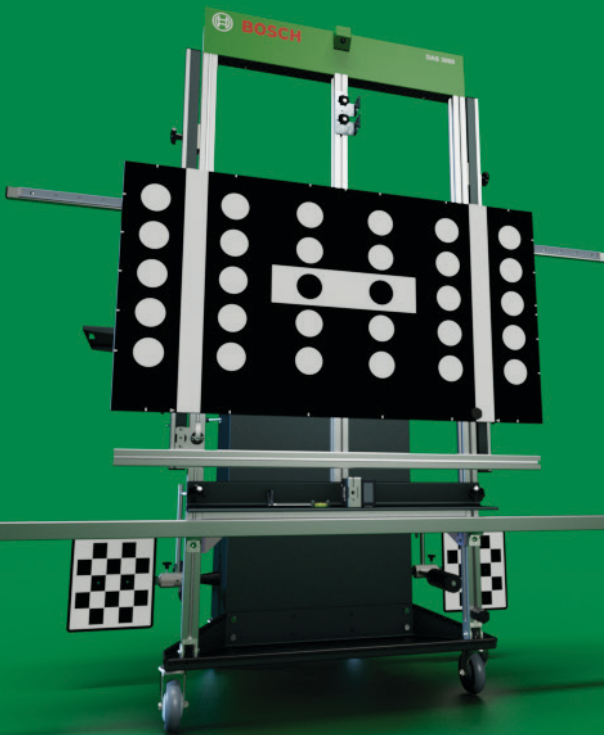
Solutions for every job.   **boschdiagnostics.com**

Meet the solutions designed to tackle your toughest jobs.

Professional Diagnostics

Everything you need to quickly diagnose, research and repair vehicles in one powerful solution.

Heavy Duty Diagnostics

Heavy duty solutions to help you get the repair done right and the vehicle back in operation.

ADAS Recalibration

A seamless, full-system solution that guides you from setup through calibration in half the time.

Test, Tune and Analyze

Test, analyze and diagnose your vehicle electrical and mechanical systems.

Unbeatable coverage for HD trucks, construction equipment and more

Now with Extended License Subscription*

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

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

Now with ELS* (Extended License Subscription)
▸ All diagnostic functions continue after subscription expiration**
▸ New coverage provided with active subscription
▸ Troubleshooting and Repair Software sold separately

* Effective on all contracts renewed or registered August 1, 2021 and thereafter
** Applies to Truck (3824A and 3824-08) and OHW (3824CBL-UPG and 3824-08OHW) Coverage

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
▸ Includes 30 day free Troubleshooting & Repair Trial

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

ESI[TRUCK] TROUBLESHOOTING LICENSE
12-Month Security Card

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

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

3824-08OHW
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

ESI[TRUCK] AG/CONST LICENSE
12-Month Security Card

NEW

3824-08
ESI[truck] 1-Year Renewal License
▸ 1-Year (12-month) renerwal license for existing ESI[truck] user.

ESI[TRUCK] HPP LICENSE RENEWAL
12-Month Security Card

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.

For more information on software updates and off-highway coverage upgrades, visit 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 (3824-08OHW)

MUSCLETOOLS Bosch Diagnostics

3920 VET 100 Circuit Analysis Tool
Quickly identify electrical issues in failed circuits

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
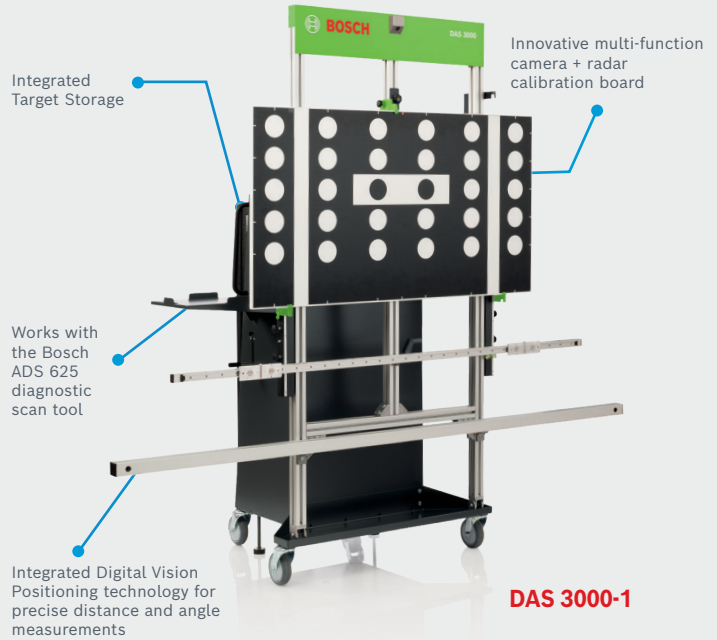▶ Bypass sensor to send desired voltage back to PCM

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

3920

DAS 3000-1
ADAS Recalibration System
A complete ADAS recalibration package that enables shops to quickly, easily and precisely recalibrate Automated Driver Assist System

Innovative multi-function camera + radar calibration board

Integrated Target Storage

Works with the Bosch ADS 625 diagnostic scan tool

Integrated Digital Vision Positioning technology for precise distance and angle measurements

DAS 3000-1

TPA 300
Grow your aftermarket solution with complete TPMS sensor coverage

NEW

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

3934

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

1699200240

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.

5

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

Robinair A/C Tools & Equipment

Vehicle A/C Capacities
Database - Subscription
Activation Card

NEW

NEW

80212
Bluetooth temp probes 2-pack
80213
Bluetooth temp probes Single probe
› 80212 / 80213 work directly with 34998 and AC1234-9 connected machines

80211TMP
Bluetooth temp probes master kit
› Read and track temperatures from multiple locations from your A/C machine
› Use up to 2 probes per compatible Robinair machine
› Enables WiFi and Bluetooth capabilities on NI and AC1234-4 machines

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
VCI 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

What wireless accessories fit my machine?

A/C Machine	Non-wireless A/C Machine		Wireless Enabled A/C Machine	
	VCI	Temp Probes	VCI	Temp Probes
34288NI, 34788NI, 34788NI-H, 34988NI	80211VCI	80211TMP	ACS-250*	80213 or 80212*
34998, AC1234-9	—	—	ACS-250**	80213 or 80212
AC1234-4	80211VCI	80211TMP	ACS-250*	80213 or 80212*

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

Find leaks and diagnose system issues faster

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

NEW

NEW

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

7

MUSCLETOOLS
Robinair A/C Tools & Equipment

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	AC1234-9
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
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	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	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
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	Mopria Print Service wireless printing
Bluetooth temp probes: Dual-zone temp recording and reporting	80211TMP	80211TMP	80211TMP	80211TMP	80212 or 80213	80211TMP	80212 or 80213
Bluetooth VCI: Reads YMME and refrigerant capacity	80211VCI	80211VCI	80211VCI	80211VCI	ACS-250***	80211VCI	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

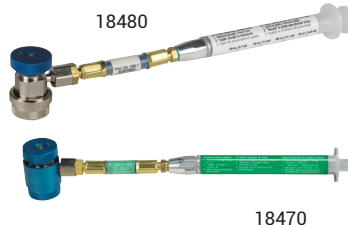## New 2022 A/C system capacity databases

Vehicle Database Screens R-134a Vehicle A/C Refrigerant Database 2022

- 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 1997-2022 using R-134a refrigerant and vehicle model years 2013-2022 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 (1997-2020)

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

R-1234yf Vehicle A/C Refrigerant Database 2022

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

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

34414-C – R-1234yf database for AC1234-6 machine

Syringe-type Injectors

18480

18470

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.

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
TESTED AND VERIFIED TO ASME PASE SAFETY STANDARDS

NEW

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

UH20 4,000-lb capacity high reach supplementary stand
- Designed to stabilize vehicles when lifted on hoists
- Extra-sturdy tripod base prevents tipping and leaning
- Secure support column and speed screw for quick adjustment and reliable holding

SPEC	UH15	UH15FP	UH20
Capacity	1,500 lbs	1,500 lbs	4,000 lbs
Max. Height	80.75"	80.75"	85"
Min. Height	54.25"	54.25"	56.25"
Footprint	11-7/8" flat round	11-7/8" flat round	24" triangular tripod base
Adjustment	Threaded rod with T-handle	Foot pedal assist and threaded rod with T-handle	Threaded rod with T-handle
Saddle	5-1/4" x 1-1/4" U-shape	5-1/4" x 1-1/4" U-shape	3-3/16" x 3-3/16" square

UH15FP

UH20

UH15

Heavy Duty Engine Stand and Engine Plates

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.

1750
Engine stand without universal engine adapter assembly.

1750-47022
Detroit Diesel

1750-4940 *
Navistar / IH

1750-4649 *
Navistar / IH

1750-4789 *
Navistar

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

Safely lifting and holding Class I, II and III vehicles

NEW

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

HDJ10

HDJ20

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 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 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

S022

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
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

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

UA27

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

TJH10

1,000-lb capacity high-lift transmission jacks

• Head tilts front to back and side to side to make removal and installation of transmission and driveline components easier
• Hydraulic system features flash-chromed rams to prevent rust from entering the system, prolonging jack life
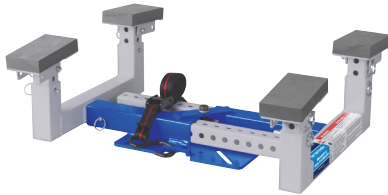
1870

Universal transmission adapter

• Universal fit features four independently adjustable and movable indexing, locking arms
• Adapts to most high or low-lift transmission jacks.
• 400-lb maximum capacity

1758

Fuel tank handler

• Universal adapter plate and adjustability holds tanks up to 40 gallons
• Unique gearing holds load evenly to balance load over jack Heavy-duty foam-covered risers protect tanks and are individually adjustable
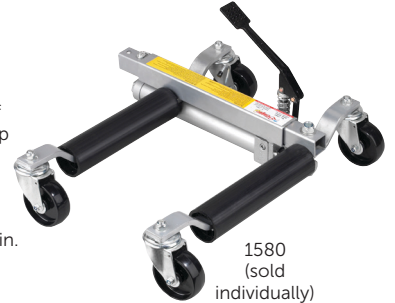• Fits most transmission jacks

1797

Heavy-duty clutch adapter

• Adapter allows high or low-lift transmission jacks to handle heavy-duty clutch assemblies
• Expands use of your transmission jack; accepts optional splined shaft adapters – 545765, 48596, 48625, 440533 and 600011.
• Includes safety strap to securely hold clutch when moving or working

1545

Motorcycle/ATV Lift

• 1,500 lb. capacity and 17" long skids that will lift the largest, widest cruisers.
• Lowest clearance available, 3-1/2" at lowest level, with a wide lift range of 3-1/2" to 16-3/4".
• Removable handle provides 360° access to load.
• Features also include foot pedal release, locking rear casters, automatic safety lock, and two ratcheting tie down straps for safety.

1580

1,500 lb. Capacity Easy Roller™

• Provides simple and efficient method of moving a disabled vehicle around a shop environment.
• Fits tread widths up to 12".
• 4 heavy-duty phenolic casters.
• 1,500 lbs. capacity per unit.
• Hydraulic lift mechanism with locking pin.

1580
(sold individually)

1572

Car Dolly (3,600 lbs., capacity pair)

• Innovative patent-pending design — clamps directly to pinch welds to prevent slippage during use.
• Independent units eliminate the need to adjust dolly width for different vehicle designs.
• Each unit has an independently adjustable threaded lift saddle with rubber pads to protect the vehicle frame.
• Universal design for use on all vehicle types without additional adapters.
• Provides easy movement of FWD vehicle after removal of drive train.
• The material on the 5" casters is polypropene.
• Each unit has 1,800 lbs. capacity (3,600 lbs., pair) with low height of 9" and high of 14".
• May be used with or without tires on vehicle.

THE NEW ONE-HANDED BALL JOINT TOOL

MORE MODELS. MORE COVERAGE. MORE VALUE.

ADAPTERS SECURELY CLICK TOGETHER — NO O-RINGS OR WEARABLE PARTS TO LOSE OR REPLACE.

Spring-loaded stainless ball bearings hold adapters during service

NEW

NEW

NEW

CA6636
C-frame
- Connected adapter C-frame and forcing screw plug
- Pick and choose your adapters
- Use all your existing OTC adapters with a larger C-frame for more vehicle coverage

CA7149
Starter Kit
- 7 connected cups & adapters
- 235+ vehicle models covered
- Application guide with adapter callouts

CA6630
Professional Kit
- 25 connected cups & adapters
- 600+ vehicle models covered
- Fully illustrated manual with adapter callouts, diagrams and instructions by vehicle model

CA6636-EXT
Connected adapter ball joint extension

6697

6695

6698

Ford Axle Shaft Seal Installers

Correctly installs the seal onto the axle shaft and into the wheel knuckle, preventing front hub vacuum leaks that would cause the 4WD to not engage.

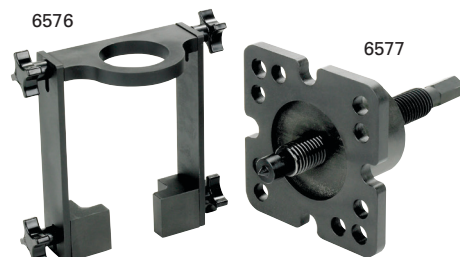### 6695

Ford Axle Shaft Seal Installer. Works on 1998-2004 Ford F-250, F-350, F-450, and F-550 4X4s having the vacuum-operated front axle.

6697

Ford Axle Shaft Seal Installer. Works on 2005-newer Ford F-250, F-350, 4X4s having the vacuum-operated front axle.

6698

Ford Axle Shaft Seal Installer. Works on 2005-newer Ford F-450, F-550, 4X4s having the vacuum-operated front axle.

6576

6577

6576S includes both 6576 & 6577

6576S

Dodge Hub Service Set

• Removes stubborn hubs, using 2 methods.
• First, the 6576 Hub Pressing Tool is used to press off the hub with the aid of the power steering. The tool locates spacers between the U-joint yoke and axle housing. Unique design makes this a one person operation to remove the hub with the bearing in tact.
• In the event the Hub Pressing Tool does not budge the hub, the 6577 Hub & Bearing Housing Puller is used. This may separate the bearing, but the unique dual pattern design fits both the wheel hub and bearing housing, capable of applying 20 tons of force.

6576 – Hub Pressing Tool, Fits Dodge 3/4 & 1 Ton 4WD 1994-Present applications.

6577 – Hub & Bearing Housing Puller, Fits Dodge 3/4 & 1 Ton 4WD 1994-Present applications. Also fits GM and Ford 4WD Truck hubs.

8342

Hub Resurfacing Kit

• Fits your power drill to quickly sand rust off studs and mounting surfaces where it is important to have a clean and debris free surface.
• The tool features a 1/4" dia. shank and a stud clearance pilot hole that accepts up to 1/2" studs.
• Sanding pads attach with Half turn thread.
• Includes holder and five sanding discs.
• Run at speeds between 5,000 - 20,000 rpm or less for best results.

6575

Hub Grappler™ Kit

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

6575H

Hydraulic Hub Grappler™ Kit

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

7045B

Front Coil Spring Compressor

This compressor fits most late-model rear wheel drive domestic vehicles in which the coil springs are between the upper and lower control arms. The tool features four case-hardened, self-aligning plates to ensure correct load distribution under tension. Includes two 3-3/8" ID plates and two 4" ID plates. Will not work on Mercedes-Benz vehicles.

4406

Adjustable Bearing Race and Seal Driver

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

7832

GM Torsion Bar Unloader

• Larger design to also cover the newer GM truck applications.
• Application; 2011 & newer HD C/K trucks, 2010 and older GM K3500 series trucks with heavy-duty chassis and a larger torsion bar. 1988 to 2003 GMC and Chevrolet 1/2-, 3/4-, and 1-ton pickups; the S-10 Blazer and S-15 Jimmy, 4WD pickups with 4.3L V-6 engines; and 1991 to 2001 Oldsmobile Bravada.

6939

Broken Bolt Extractor Tool

• Remove frozen, broken or cut off bolts within steering or suspension bushings.
• Can also be used to remove and install wheel studs and other general pressing needs.

7816

Ford Torsion Bar Adjustment Tool

Before servicing a torsion bar on 1995–2001 Ford Explorer and 1998–2001 Mercury Mountaineer vehicles, you must first contain the bar to avoid possible damage. This tool securely accomplishes that task, allowing you to make adjustments.

7826

Ford Truck Torsion Bar Tool

This tool firmly holds the torsion bar on Ford light-duty trucks while you adjust or service the front suspension. Without it, a torsion bar could unwind and possibly cause damage. The tool fits 1997–2003 Ford F-150 4WD pickups, 1995–2001 Ford Explorer 4WD, 1998–2001 Mercury Mountaineer, and 1998–2001 Ford Ranger.

MUSCLETOOLS Bosch EV

Electric Vehicle Charging Solutions

NEW

EV300 Level 2 charging station
- Easy to install and use
- Industry standard NEMA 14-50 plug Included
- NEMA 3R-rated enclosure for indoor or outdoor installation (outdoor installation requires in-use cover over receptacle)
- Compact design ideal for areas with limited space (indoor and outdoor)
- Includes tamper resistant mounting bracket
- Easy to manage 16' cable
- 240V, 32A capacity for faster vehicle charging
- Up to 4 times faster than a standard wall outlet
- SAE J1772 charging connector is compatible with all EVs in North America

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

Made in the USA

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
- Movable, plug-in installation option allows charging when you need it, leaving an open outlet when not charging

Made in the USA

EV3000 DC Fast Charger
Planned to bring more power and compatibility with 30kW and 950vDC output
- Ideal for fleets
- Charge 4 times faster than Level 2 AC charging stations
- Can charge new vehicles that operate at higher voltages
- Includes SAE J1772 CCS Cable
- Wall mountable
- High resolution LCD display
- Improved mounting for ease of installation
- Internal components easily serviceable

NEW

All Bosch EV chargers meet either UL/cUL or ETL/cETL safety standards

EV850 Series Single bollard charging station
- Includes one EV810 Series charging station in a galvanized steel bollard for parking lot and commercial use - ¼" 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

Made in the USA