

MUSCLETOOLS

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

Q1 2020 Edition

OTC ROBINAIR actron BOSCH

PROMOTIONS

All promotions valid 1/1/2020 - 3/31/2020, 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.

BUY AN OTC 6786 OIL FILTER CARTRIDGE SET AND 5961 DRAIN PLUG PRO, RECEIVE A FREE 4568 3-LEG OIL FILTER WRENCH

The ultimate oil change combination. Remove drain plugs without spilling hot oil

Buy an OTC 6786 oil filter cartridge set and OTC 5961 drain plug pro

Receive a free OTC 4568 3-leg oil filter wrench



BUY AN OTC 4496 HOSE CLAMP PLIERS SET AND 4597 HOSE CLAMP PLIERS WITH MEMORY, RECEIVE A FREE 8262 SHORT PICK AND HOOK SET

The ultimate hose removal combination

Buy OTC 4496 hose clamp pliers set and 4597 hose clamp pliers with memory

Receive a free 8262 short pick and hook set



BUY AN OTC 7302 BRAKE CALIPER PINBOLT REMOVER AND 7034 DISC BRAKE PAD SPREADER, RECEIVE A FREE 6596 BRAKE PAD GAUGE

The ultimate brake job combination. Remove stubborn caliper pins/bolts, retract calipers and measure brake pads

Buy an OTC 7302 brake caliper pin/bolt remover and 7034 disc brake pad spreader

Receive a free 6596 brake pad gauge



BUY AN OTC 8260M MASTER PICK AND HOOK SET OR 6299 5-PIECE PICKLE FORK SET, RECEIVE A FREE OTC RATTLIN' RAPALA LURE

The ultimate reward. Get the job done faster with OTC and cast a line

Buy an OTC 8260M master pick and hook set OR 6299 5-piece pickle fork set

Receive a free OTC Rattlin' Rapala lure



BUY AN OTC 6637-ST STRUT TAMER II, RECEIVE A FREE OTC 6296 PITMAN ARM / TIE ROD REMOVER

The ultimate shock/strut repair combination. Separate suspension components and compress springs with up to 4,000 lbs of force

Buy an OTC 6637-ST Strut Tamer II

Receive a free OTC 6296 pitman arm/tie rod remover



FREE 3210 RESET/MAINTENANCE TOOL OR 3209 ABS/AIRBAG TOOL WHEN YOU RENEW YOUR OTC DIAGNOSTIC SUBSCRIPTION

- Free 3209 with Encore software renewal
- Free 3210 with Evolve software renewal

Purchase
Encore 3893-LTW
1-year subscription
and lifetime
hardware
warranty



✓ FREE 3209

Receive FREE
3209 ABS/Airbag tool

Purchase
Evolve 3896-LTW
1-year subscription
and lifetime
hardware
warranty



Receive FREE
3210 Reset/
maintenance
tool

✓ FREE 3210

NEW

Connected ACS machines

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



AC1234-9 for R-1234yf systems and 34998 for R-134a systems

- › Industry-leading 10.5" hi-res touch screen with easy-to-use controls
- › Wi-Fi® and Bluetooth® connectivity for wireless accessories and performance enhancements
- › Google Cloud Print™ with a report export option for customers or insurance companies
- › Includes wireless software updates and refrigerant capacity database access*

* Annual purchase of refrigerant capacity database software card or PAC code required to download new capacity database



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
- › 80211VCI wireless VCI master kit and 80211TMP Wi-Fi / temp probes master kit compatible
- › Includes wireless software updates and refrigerant capacity database access*

* Annual purchase of refrigerant capacity database software card or PAC code required to download new capacity database



Find leaks and diagnose system issues faster

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



- 80211VCI**
Wireless VCI master kit
- › Read, diagnose and clear OBDII generic codes to make A/C service faster
 - › OBDII dongle reads YMME to verify refrigerant capacity, oil capacity and oil type
 - › Includes current refrigerant capacity database
 - › Enables Wi-Fi and Bluetooth capabilities on 34288NI, 34788NI, 34788NI-H, 34988NI and AC1234-4 machines.



- 80211TMP**
Wi-Fi/temp probes master kit
- › Two-probe kit wirelessly transmits multiple temperatures to AC machine
 - › Read, track and record temperatures from multiple vents or zones within a vehicle
 - › Temp variances can be added to customer or insurance company service report to verify repair
 - › Enables Wi-Fi and Bluetooth capabilities on 34288NI, 34788NI, 34788NI-H, 34988NI and AC1234-4 machines.



- 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 trusted, 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

COMBINING SIMPLE OPERATION WITH SUPERIOR ACCURACY

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

R-134a Systems



R-1234yf Systems



Features	34288NI	34788NI	34788NI-H	34988NI	AC1234-4	AC1234-6
Fully Automatic Function: Program to recover, vacuum, leak test and charge without operating panel valves.	Manual Valves	X	X	X	X	X
Automatic fluid drain/inject	Oil drain	Oil drain/inject*	Oil drain	Oil drain/inject, dye inject**	Oil drain	Oil drain
Refrigerant & Oil Database: A/C system capacities for North American market vehicles (Optional – not included with the machine)	Optional	Optional	Optional	Optional	Optional	Optional
A/C System Flush: Flushes a vehicle's A/C system with refrigerant, eliminating any residual oil or other liquid. (Flushing adapters not included)	–	–	X	X	X	X
Save & print before and after service data: Allows the user to store before and after service information by vehicle and print this information to provide to a customer.	–	X	X	X	X	X
Visual & Audible Alarm: Notifies the user when service is complete, or if a problem has occurred.	–	X	X	X	X	X
Vacuum Leak Test: Monitors level after evacuation, informs of possible leak.	–	X	X	X	X	X
Automatic Air Purge: Eliminates system-damaging air without monitoring gauges or opening valves.	X	X	X	X	X	X
Automatic Refrigerant Refill: Maintains a user-selectable amount of refrigerant in an internal vessel and signals when it's time to change supply tank.	–	X	X	X	X	X
Vacuum Feature: Defaults to 15 mins, programmable up to 99 mins. "Remaining time" is displayed.	X	X	X	X	X	X
Display: Multilingual.	X	X	X	X	X	X
Refrigerant Charging:	X	X***	X***	X***	X***	X***
Refrigerant Management System: Displays refrigerant use and monitors remaining filter life. Prompts appear when 1/3 of filter life remains.	X	X	X	X	X	X
Electric Vehicle: Capable of servicing high voltage electric compressor A/C systems.	–	–	X	–	X	X
80211VCI wireless VCI master kit compatible	X	X	X	X	X	X
80211TMP Wi-Fi / temp probes master kit compatible	X	X	X	X	X	X
Printer	Optional	Optional	Optional	X	Optional	X

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

New 2019 A/C system capacity databases



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



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

NEW



34413-B
1234yf database
For AC1234-4
machines

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

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

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

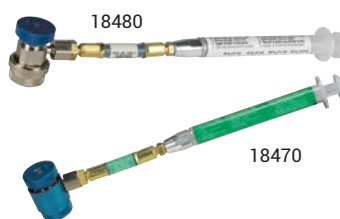
34412-D – R-134a Vehicle A/C Refrigerant Database 2019. Compatible with new Robinair R-134a machines 34288NI, 34788NI, 34788NI-H, 34988NI.

R-1234yf Vehicle A/C Refrigerant Database 2019

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

34414-A - Vehicle A/C refrigerant database 2019 for Robinair AC1234-6 R-1234yf recovery 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 – 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.
- Improved face seal valves provide a tight seal, less wear and improved flow.
- Easy-to-grip control knobs.



45111

2-Way Brass Manifold R134a Manifold Hose Kit

- 90° manual couplers
- 72" R134a hose set

Unbeatable coverage for HD trucks, construction equipment and more



New & Improved Windows 10 Touchscreen tablet

Increase Shop Efficiency with the Bosch ESI[truck]

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

3824A

Truck, engine, and system coverage

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

Expert-level diagnostics

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



3824-08R

Troubleshooting & Repair Subscription

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

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

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

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

3824CBL-UPG

Kit contents:

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

3824-080HW

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

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



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

NEW



NEW



For more information on software updates and off-highway coverage upgrades, visit www.BoschDiagnostics.com/Pro

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

Coverage

Comprehensive coverage from the world's leading diagnostic brand.



FREE access to on-tool service and repair information*

OE wiring diagrams and repair information straight from the source and at your fingertips without leaving the shop floor.

*With valid subscription

Quick-Scan

All-systems DTC scan in an average of under 60 seconds.

Security requirements

Unlock 2018 / 2019 Secure Gateway protected FCA vehicles seamlessly and within seconds.

AVERAGE DTC SCANS BELOW
60 SECONDS WITH QUICK-SCAN

“I feel like I’m wasting my time when I’m waiting for the other software to do its job.”

- ANTHONY ANIELLO

Uncover



Uncover the truth
at Bosch-ADS.com



BOSCH

Invented for life

the truth

Compare Bosch ADS to your current scan tool for 30 days, risk-free.



Purchase and register either a Bosch ADS 325 or ADS 625 diagnostic tool ("Qualifying Purchase") from January 1, 2020 through March 30, 2020 ("Promotion Period").

Compare the Bosch ADS to your current scan tool for 30 days. After 30 days, choose to trade-in your eligible, professional scan tool for a rebate (\$500 rebate for ADS 325 purchase, \$1,000 rebate for ADS 625 purchase) or return the Bosch ADS under the 30-day money back guarantee.

Visit boschdiagnostics.com/pro/promotions for more promotion details, terms & conditions.



3920

VET 100 Circuit Analysis Tool



Scan here for features, benefits and usage

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



6ft (1.83M)
Power Cable



1m Cable for the
probe tip



2mm Flat Terminal



2mm Probe Tip



Pin Tip Probe

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

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

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

1699200240

HDS 250 Features

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



HDS 250 Includes

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



Bosch BAT 135 Battery tester with integrated printer

Features:

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



1699200244



4579

9-Ton Slide Hammer Puller Set

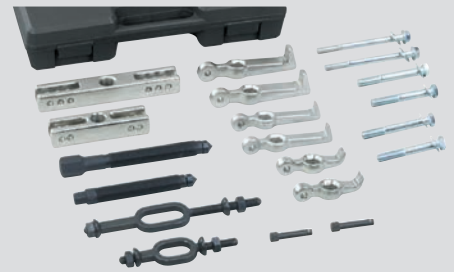
- Pulls flange-type rear axles and most front-wheel drive hubs.
- Internal and external jaws provide a variety of combinations to pull bearings, gears and seals.
- Two- and three-way cross blocks and cone provide the perfect jaw configuration for most jobs.
- Set also includes a grip wrench adapter and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



4532

7-Ton Multi Purpose Bearing & Puller set

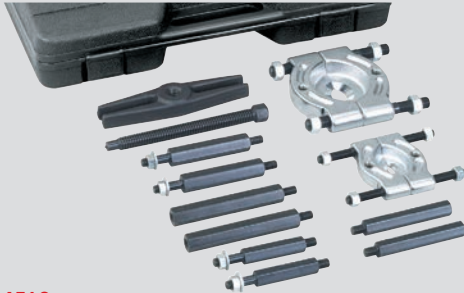
- Features a classic "H" style puller block accommodating 7-11" application spread.
- Includes 2 sets of forged jaws for a pulling reach range of 5" to 9" – tempered for heavy-duty applications. (Jaws from OTC's 4534 are interchangeable) Two forcing screws are included for short and long pulls.
- Multi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



4534

OTC Multipurpose Bearing and Pulley Puller Set

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



4518

5-Ton Bar-Type Puller/Bearing Separator Set

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



4527

5-Ton Single Pressure Beam Bearing Splitter Set

- Single point of adjustment allows quick attachment of splitter to the application.
- Pressure beam provides the ultimate in secure gripping surface.
- Push Puller is thread matched to the splitter.
- Interchangeable legs shorten or lengthen the range of pull.
- Designed of high quality tool grade materials for a lifetime of use.
- For use on most bushing or bearing jobs up to 3" in diameter.



4526

Heavy-Duty Single Pressure Beam Bearing Splitter Set

- Single point of adjustment allows quick attachment of splitter to the application.
- Pressure beam provides the ultimate in secure gripping surface.
- Push Puller is thread matched to the splitter.
- Interchangeable legs shorten or lengthen the range of pull.
- Designed of high quality tool grade materials for a lifetime of use.
- For use on most bushing or bearing jobs up to 4" in diameter.



4517

7-Ton Bar-Type Puller/Bearing Separator Set

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



4581

Blind Hole Bearing Puller Set

- For pulling jobs requiring an internal pull.
- Set includes four collets, which fit a wide range of applications. Select the appropriate sized collet by comparing it with the application. Insert the collet, expand it to fit the hole, then attach the slide hammer.
- Four collet sizes: 7/16" to 1/2", 9/16" to 11/16", 5/8" to 1", and 1" to 1-1/4".
- Set includes a 2-1/2 lb. slide hammer with a T-handle.
- Housed in a blow-molded plastic storage case.



7175

Indexing Pry Bar Set, 3-piece

- Sizes 10", 12" and 15".
- Indexible to 180° for better access.
- 14 locking positions for leverage in multiple applications.
- Knurled handle assures a sure grip.
- Meets or exceeds ANSI specifications for pry bars

7176

4 PC Rolling Head Pry Bar Kit

- Set includes 4 OTC Rolling Head Pry Bars (6", 12", 16" and 21" lengths)
- Upset head design provides optimal leverage
- Tapered end designed for hole alignment
- Proprietary thermal treatment provides superior strength and durability
- Chrome finish resists corrosion
- Comes with free pair of OTC SmartTech Gloves (Large)



7177

Heavy Duty Extendable Indexing Pry Bar

- The prying head is 13/16" wide and can be extended from 34" to 53" using 31 preset positions set in 5/8" increments.
- Extension and indexing adjustments are done with separate oversized pins allowing length and angle adjustments to be made quickly.
- Optimal loading of 1500 lbs. to 2200 lbs. is made possible by the bar's heavy duty 13/16" steel bar and 1-3/8" tubular extension. Knurling has been added at the base of the handle for a strong, secure grip.
- OTC Lifetime Warranty.

7687A

Pry Bar Head

- Turns any 3/8" drive ratchet or breaker bar into a rolling head pry bar.
- A versatile pry bar with easy storage.



7171

Pry Pac

- Three pry bars in one economical pack. You get 12" and 18" rolling head pry bars and a 24" jimmy bar.
- Heat-treated chrome alloy steel.



6968

Ratcheting Chain Wrench – 12"

- Works on many different-shaped objects, such as square, round, hexagon, oval, etc.
- Handle is 12" long; chain grips objects ranging from 1/2" to 4-1/2" O.D.

516941 Replacement chain



6969

Ratcheting Chain Wrench – 24"

- Ratcheting action makes it possible to re-grip without removing wrench.
- Handles parts of most any shape... round, square, hexagon, or octagon.
- Handle is 24" long; chain grips objects ranging from 3" to 6-1/2" O.D.

516942 Replacement chain



7206

Multipurpose Strap Wrench

You'll find many uses for this heavy-duty strap wrench. The 53" long nylon strap won't mar precision surfaces of shafts, pulleys, or other components. Useful on engine, transmission, and drive pulleys up to 16 inches. Special head design self-tightens the strap as force is applied to the lightweight, 12" long handle.

305085 Replacement strap



4804

Heavy Duty Pulley Holder

This strap style universal wrench features a 9" drop forged handle and 23" leather strap for excellent grip on diameters up to 7". The milled foot increases grip on the strap and pulley as handle force is increased.



8203L

Handled Pry Bars (3 PC)

- Includes 24", 36", and 48" lengths
- Dual durometer handle for great ergonomics
- Striking cap - contacts bar - protecting handle
- Made in USA



7103

O-Ring / Oil Seal Pick

For removing stubborn o-ring or oil seal out of its seat.



4783

Flexible Magnetic/Claw Pick Up Tool

The 25" flexible spring shaft allows the tool to reach difficult areas and pick up objects either magnetically or with the use of the retractable claw.



6999

Fuel Injector Puller

Removes fuel injectors from engine. The puller legs align around the injector base and the collar is slid down to firmly grip the injector. A slide hammer attaches to the puller, which is used to pull the injector from its seat. The injector puller threads onto slide hammers with 5/8"-18 thread, including most OTC slide hammers. Similar to OE part number 310-206

Applications include:

- 2010-Later 3.5L, 3.5L GTDI
- 2012-Later 2.0L Duratec, 2.0L EcoBoost, 2.0L GTDI
- 2013-Later 1.5L & 1.6L EcoBoost
- 2015-Later 2.7L EcoBoost



6877

Injector Bore Cleaning Brush

The OTC 6877 Injector Bore Cleaning Brush includes a two step brush and detachable handle for fuel injector bore cleaning. Similar to OE part number 310-205

Applications include Ford, Lincoln and Mercury vehicles with the following engines:

- 2010-Later 3.5L, 3.5L GTDI
- 2012-Later 2.0L Duratec, 2.0L EcoBoost, 2.0L GTDI
- 2013-Later 1.5L & 1.6L EcoBoost
- 2015-Later 2.7L EcoBoost



2545

Door Flange Tool Set

The OTC 2545 Door Flange Tool Set is designed for aluminum door repair and allows for removal and installation of aluminum door skin. The set includes right and left hand door hem flange opening air hammer adapters, a pack of 10 hem flange tool replacement inserts, and a door hem flange crimping tool. Similar to OE part number 502-080, 501-078, and J-46162.

Applications include:

- Ford Econoline
- F-Series truck.



6913

Extension Housing Bushing Remover

Removes transmission extension housing bushing. The tool is inserted through the bushing and the drive screw is tightened to draw the bushing out of the housing. Similar to OE part number 308-070.

Applications include Ford Ranger transmissions:

- 4R44E/4R55E
- 5R55E
- A4LD
- C3
- T5OD



6911

Transmission Shaft Seal Remover Adapter

Removes input shaft oil seal. Can also be used for output shaft seal on some transmissions. Threads onto slide hammers with 5/8"-18 thread. Similar to OE part number 308-375.

Applications include:

- Ford Escape
- Ford Excursion/Explorer
- Ford Explorer Sport Trac, 2004-2009
- Ford F-150
- Ford Fusion
- Ford Mustang
- Ford Super Duty
- Ford Thunderbird
- Ford Expedition and Lincoln Navigator, 2006-2009
- Land Rover
- Mercury Mariner, 2009-2010
- Mercury Mountaineer and Mercury Montego, 2004-2010
- Mercury Milan
- 1.5L EcoBoost, 2014-Later
- 6R80, 5R55S, CD4E, ZF 6-speed, AW21, 4R70E/4R75E Transmissions



6895

Crankshaft Rear Oil Seal Installer

The OTC 6895 Crankshaft Rear Oil Seal Installer is used to install crankshaft rear main oil seal. Similar to OE part number 303-328.

Applications include Ford, Lincoln and Mercury vehicles using the following engines:

- 1998-2004 Ford Focus, Maverick, Ranger
- 2005-2013 2.0L, 2.3L, 2.5L, 2.0L EcoBoost
- 2012-Later 2.0L GTDI
- 2004 2.0L Zetec
- 2004 SVT Focus



6893

Input Shaft Seal Remover

Removes outer seal on input shaft. The tapered thread end is threaded into the seal ID and the forcing screw is tightened to pull the seal from its seat. Similar to 307-673.

Applications include:

- 6-Speed PowerShift Transmission
- 2011-Later Ford Fiesta, Ford Focus



6891

Flywheel Holding Tool

This tool holds the flywheel during engine servicing. Designed to contact the flywheel teeth to firmly keep the engine from rotating. Similar to 303-103.

Applications include:

- 1998 - Later Ford, Lincoln and Mercury vehicles



6655

Ball Joint Separator

This press separates the lower control arm ball joint from the steering knuckle. Similar to 204-592. Works on many Ford, Lincoln, & Mercury vehicles, including:

Applications include many Ford, Lincoln and Mercury vehicles, including:

- 2007-2009 Ford Expedition
- 2010-2013 Ford Transit Connect
- 2007-2011 Ford Fusion, Lincoln MKZ, Mercury Milan
- 2007-2011 Lincoln Navigator
- 2008-2010 Mercury Mariner
- Ford F-Series trucks, E-Series vans, Taurus, Mercury Sable



6888

Crankshaft Front Seal and Wear Ring Remover

Removes the front seal and wear ring from crankshaft. Similar to 303-1260.

Applications include:

- 2008-2010 Ford F-250, F350, F450, F-550
- 6.4L Ford Powerstroke engines
- VT365-MaxxForce7
- Navistar International



6887

Crankshaft Front Seal and Wear Ring Installer

The OTC 6887 Crankshaft Front Seal and Wear Ring Installer installs the front seal and wear ring on crankshaft. It's designed to eliminate lip flare on the wear sleeve and installs the seal properly. Use OE part number 303-1158 for 4.5L installation. Similar to OE part number 303-761.

Applications include the following Ford vehicles and engines:

- 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



6885

Crankshaft Rear Seal and Wear Ring Installer

The OTC 6885 installs the rear seal and wear ring on crankshaft. It's designed to eliminate lip flare on the wear sleeve and install the seal properly. Similar to OE part number 303-770.

Applications include Ford vehicles using the below engines:

- 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



6992

Injector Sleeve Service Set

Set includes tools to remove fuel injector sleeves, clean the injector bore and fuel galley, and install injector sleeve cups. With the head removed, the slide hammer adapter can be installed to pull the injector sleeve. The brush set properly cleans the injector bore which is required for the fuel injector sleeve cup installer to properly seat the cup. Similar to 303-768, 303-767, 303-DS110.

Applications include:

- 2006-2009 4.5L Diesel
- 2004-2010 6.0L Diesel



6671

Camshaft Alignment Tool

Ensures camshaft is in proper position during servicing. Adapter plate is held in position with the supplied thumb screw. Similar to 303-1565.

Applications include engines found in Focus, Edge, Explorer, Escape, Taurus, Mustang, MKX, MKT, MKZ:

- 2010-Later 2.0L Duratec
- 2010-Later 2.0L EcoBoost
- 2012-Later 2.0L GTDI
- 2015-Later 2.3L EcoBoost
- 2016-Later 3.5L EcoBoost



6881

Crank Sensor Alignment Tool

Aligns the crankshaft position sensor properly during installation. Similar to 303-1521.

Applications include:

- 2012-Later 2.0L Duratec, EcoBoost and GTDI
- 2015-Later 2.3L EcoBoost



6875

PTU Linkshaft Seal and Dust Cover Installer Set

This set installs linkshaft seals and dust covers found on the Power Transfer Unit (PTU). Similar to 205-883 and 205-882.

Applications include:

- 2007-2012 Ford Edge and Fusion
- 2008-Later Ford Taurus, Flex and Fusion
- 2011-Later Ford Explorer
- Lincoln/Mercury equivalent vehicles



6873

Injector Seal Installer Set

Tool set to properly size and install the seal on the injector for leak free operation. Similar to 310-207.

Applications include:

- 2010-Later 3.5L, 3.5L GTDI
- 2012-Later 2.0L Duratec, 2.0L EcoBoost, 2.0L GTDI
- 2013-Later 1.5L & 1.6L EcoBoost
- 2015-Later 1.0L & 2.7L EcoBoost



6871

Power Steering Evacuation Cap

Power Steering Evacuation Cap allows for removal of air from the power steering system when used with a vacuum pump. Air in the system can cause noise and premature pump failure. Fits various power steering pump reservoirs. Similar to 211-265.



6665

Timing Belt Holding Tool Set

This tool set holds the timing belt in three locations during water pump removal and installation. Used in conjunction with Top Dead Center Pin p/n 567643. Similar to 303-1556.

Applications include:

- 2011-Later 1.5L EcoBoost and 1.6L EcoBoost.



6674

Valve Spring Compressor

The OTC 6674 compresses the valve springs in order to remove and install the camshaft roller followers with the head on the engine. Includes a 3/8" square drive for use with ratchet or breaker bar. Similar to OE part number 303-581

Applications include Ford, Lincoln and Mercury vehicles using the following engines:

- 1998-2011 4.0L SOHC & 4.6L 2V



6867

Hub Seal Installer

The OTC 6867 Hub Seal Installer is used to install the wheel hub oil seal on single or dual wheel axle assemblies. The seal installer adapter is driven with the 7" detachable handle. Similar to OE part numbers 205-422 and 205-153.

Applications include Ford, Lincoln and/or Mercury vehicles using the following axles:

- 1999-Later Dana
- Ford 10-1/2" Full Floating Axle.



6649

Chevy/GMC Ball Joint Adapter Set

This unique 3-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on Chevy and GMC vehicles. Set contains adapter p/n's 580524, 305227 and 580523 for use on:

- 2011 - 2017 2500HD and 3500HD Chevrolet Suburban, Avalanche and Silverado
- 2011 - 2017 2500HD and 3500HD GMC Sierra and Yukon XL



6652

Subaru Ball Joint Adapter Set

This 3-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on select Subaru vehicles. Set contains adapter part numbers 581996, 581995 and 581994 for use on:

- 2005-2006 Baja
- 2016-2017 Crosstrek
- 1998-Later Forester
- 1993-Later Impreza
- 1990-Later Legacy
- 2000-Later Outback
- 2015-Later WRX
- 2014-2015 XV
- 2013-2015 XV Crosstrek
- 2006-2007 B9 Tribeca
- 2008-2014 Tribeca



6647

Lexus/Toyota Ball Joint Adapter Set

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

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



6646

Lexus/Hyundai/Kia Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on Lexus, Hyundai and Kia vehicles.

Set contains adapter part numbers 554413, 580570, 581426 and 38355A for use on:

Lexus

- 2006 GS300
- 2007-2011 GS350
- 2006-2015 IS250
- 2016-2017 IS300
- 2011-2017 IS350

Hyundai

- 2006-2011 Azera
- 2006-2010 Sonata

Kia

- 2007-2009 Amanti



6651

Mazda CX7 & CX9 Ball Joint Adapter Set

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

- 2007 - 2012 CX7
- 2007 - 2014 CX9



7249

Ball Joint Service Kit

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



6653

Acura/Honda Ball Joint Adapter Set

This 4-adapter set is used in conjunction with the 7248 C-frame to remove and install ball joints on select Acura and Honda vehicles. Set contains adapter part numbers 580518, 554419, 554414 and 313967 for use on:

- 2009-2014 Acura TL and TSX
- 2008-2012 Honda Accord
- 2010-2011 Honda Accord Crosstour
- 2012-2014 Honda Crosstour



6648

Ford Transit Connect Van Ball Joint Adapter Set

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

- 2010 - 2013 Ford Transit Connect Vans



7248

U-Joint Removing/Installing Tool

This helpful tool uses a forcing-screw press to safely remove and replace automotive universal joints with needle bearings, including GM plastic pin CV U-joints. Similar to Ford 205-086 (T74P-4635-C)



5693

Dual/Single Wheel Separator

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

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



6720

Flare Nut Locking Pliers Set (3 pcs.)

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

6720-1 Covers 1/4" to 5/16" (6mm to 8mm).

6720-2 Covers 3/8" to 7/16" (9mm to 11mm).

6720-3 Covers 1/2" to 5/8" (12mm to 16mm).



6720-4

Flare Nut Locking Pliers

- Designed for use on new or damaged flare nuts that have been rounded or rusty.
- Fits Standard or Metric nuts and bolts.
- Angled jaws allow for clearance around frames and bulkheads.
- Covers sizes 11/16" to 7/8" (17mm to 22mm).



6722

Brake Spring Locking Pliers

- Designed to compress parking brake springs and hold them in a compressed position while servicing the brake cable or other brake components.
- Ford and Dodge applications.



7302

Brake Caliper Pin/Bolt Remover Set

- Allows for removal of inboard facing pins or bolts to be removed from the outboard side of the brake caliper or vehicle component.
- For caliper pin removal, simply back the pin bolt out half way and place the tool over the bolt shank to strike against the bolt head.
- Fits all sizes of pins or bolt shanks ranging from 1/4" (6mm) to 5/8" (16mm).

Set includes

7302-1 A striking version.

7302-2 Air hammer adapter.



6980

Brake Drum and Rotor Puller

- Handles large components such as brake drums, rotors, drive wheels, gears, flywheels, and pulleys.
- One person can easily set the tool in place and use for tough pulls even where there is little access to insert the jaws.
- Spread to 12-3/4" and 5" of reach.
- 7-tons of force, yet weighs less than 10 pounds.
- Can be used with air tools to reduce time and fatigue.
- Always follow proper safety precautions when using pullers.



6979

Heavy Duty Brake Drum and Rotor Puller

The ideal solution for removing frozen, rusted or seized drums and rotors

- Works on 1-ton pickups, school buses and larger vehicles
- 17.5" spread and 12.25" reach
- Two forcing screws included for standard and tall brake drums/rotors
- Screws are specially treated for long life, smooth operation and are finished with a striking cap for extra pulling force
- Legs have a mild radius to securely grip and pull drums and rotors
- 8' ratchet strap included to secure puller to drum or rotor



7180

Universal Bearing Cup Installer

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

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

52038 Replacement jaw.

207561 Replacement retaining spring.



5038

Brake Anchor Pin & Bushing Service Set

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

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



5081

S-Cam Air Brake Spring Tool

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

314548 Replacement hook kit.



5080A

Truck Front Leaf Spring, Pin, and Bushing Service Set

- Delivers 10 tons of hydraulic force to remove and install truck front spring eye bushing assemblies quickly and easily.
- Services bushings with diameters from 1-1/4" through 1-7/8", and pin diameters from 7/8" through 1-1/8". Handles all popular OE and aftermarket components, including Horton pin and bushing assemblies.
- Service bushing assemblies, in many cases, without removing leaf spring hangers and spring assemblies from the vehicle.
- All accessories are included except the hydraulic hand pump and hydraulic hose which must be purchased separately.



5085

Hub Oil Seal Puller

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



7077

Axle-Stud Cone Pliers

Now you can easily remove the tapered cone from studs used on the rear axles of medium and heavy-duty trucks. This specially designed tool gives you the leverage needed to expand the cone and remove it from the stud for axle removal.

5052

Slack Check

This tool enables you to quickly check the brake adjustment on class 7 and 8 trucks and trailers having S-cam brakes. It features a sturdy, four-position handle to provide the leverage you need at the proper angle.

- Works on manual or automatic slack adjusters.



5056

5055

Slack Adjuster Pullers

These pullers will yank even the most corroded slack adjuster off the S-cam— and do so in just a fraction of the time needed with "heat and beat" methods. Plus, they won't damage components. Both pullers have a rugged forcing screw and cast steel body. Puller No. 5055 fits many manual types, and the No. 5056 works on Rockwell, Haldex, Gunite, and Bendix automatic adjusters.

5055 Manual slack adjuster puller.

5056 Automatic slack adjuster puller.



5054

Air Brake Service Kit

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

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



5057

Clevis Pin Press

Removing corroded clevis pins from a brake air-chamber push rod can be a maddening and time-consuming task— unless you're using our clevis pin press. This handy screw-operated tool applies the force just where it's needed. The pin is easily removed from its hole without damaging nearby components.



5089

Air Brake Line Release Tools

Tools used to separate connectors on the P/S system and EGR coolers without damage. Also works on connectors on other liquid and air lines. Each tool has two sizes. 3/8" and 5/8"; 1/2" and 3/4". Similar to J-45666 & J-42971.

Applications: 2003-Later Medium Duty trucks.



1517B

Collision Repair Sets, OTC Series 4- and 10-Ton

- We've matched our OTC hydraulics with versatile tooling.
- Components snap together, permitting you to apply pushing, spreading.
- Components include: hydraulic pump, hose, and ram; ram flat base; 1/2-ton hydraulic spreader; extension tubes (4); tube coupling; ram toe; wedge head; serrated saddle; flex head; plunger toe; 90° wedge head; storage case. The case for the 10-ton set has wheels for mobility.

1517B 4-ton collision repair set. Has single speed hydraulic hand pump (4000A) and ram (4082B) with 5" stroke.

1519B 10-ton collision repair set. Has two-speed hydraulic hand pump (4012A) and ram (4083C) with 6-1/8" stroke.



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1734A

Heavy-Duty Wheel Step

- Tire-mounted wheel step provides quick, easy access to under-hood components.
- Fits heavy-duty vehicles (Class 7/8).
- Installs in seconds; adjusts to fit 22-1/2" to 24" wheel sizes and folds for easy storage.
- 300 pound capacity.
- Non-skid platform surface.



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1534A

300 lb. Capacity Passenger/Light Truck Wheel Step

- Provides quick, easy access to your vehicle's roof for loading/unloading cargo.
- Fits passenger and light trucks.
- Adjusts to fit 14" to 20" wheel sizes.
- Non-skid platform surface.
- Two-year warranty.



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 polypropylene.
- 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.



1580
(sold individually)

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.



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.