

PTEN

Professional Tool & Equipment News

The Independent Tool Authority



DIAGNOSTIC THERMAL IMAGER ELITE

by Snap-on



Details on the cover products and other new tools **Page 10**



▲ Detects arc when sensors are blocked



▲ Features molded ball stop



▲ Connects to smartphone via app



EXCLUSIVE:
2018 PTEN Innovation Award Winners!
Page 42

Tool Briefing:
Digital inspection tools and the power of data
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Tech Routing List

KNIPEX Quality – Made in Germany

KNIPEX

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NOW AVAILABLE IN A 7 1/4" AND 10" SIZE!

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**10" Hose
Clamp**
85 51 250 A

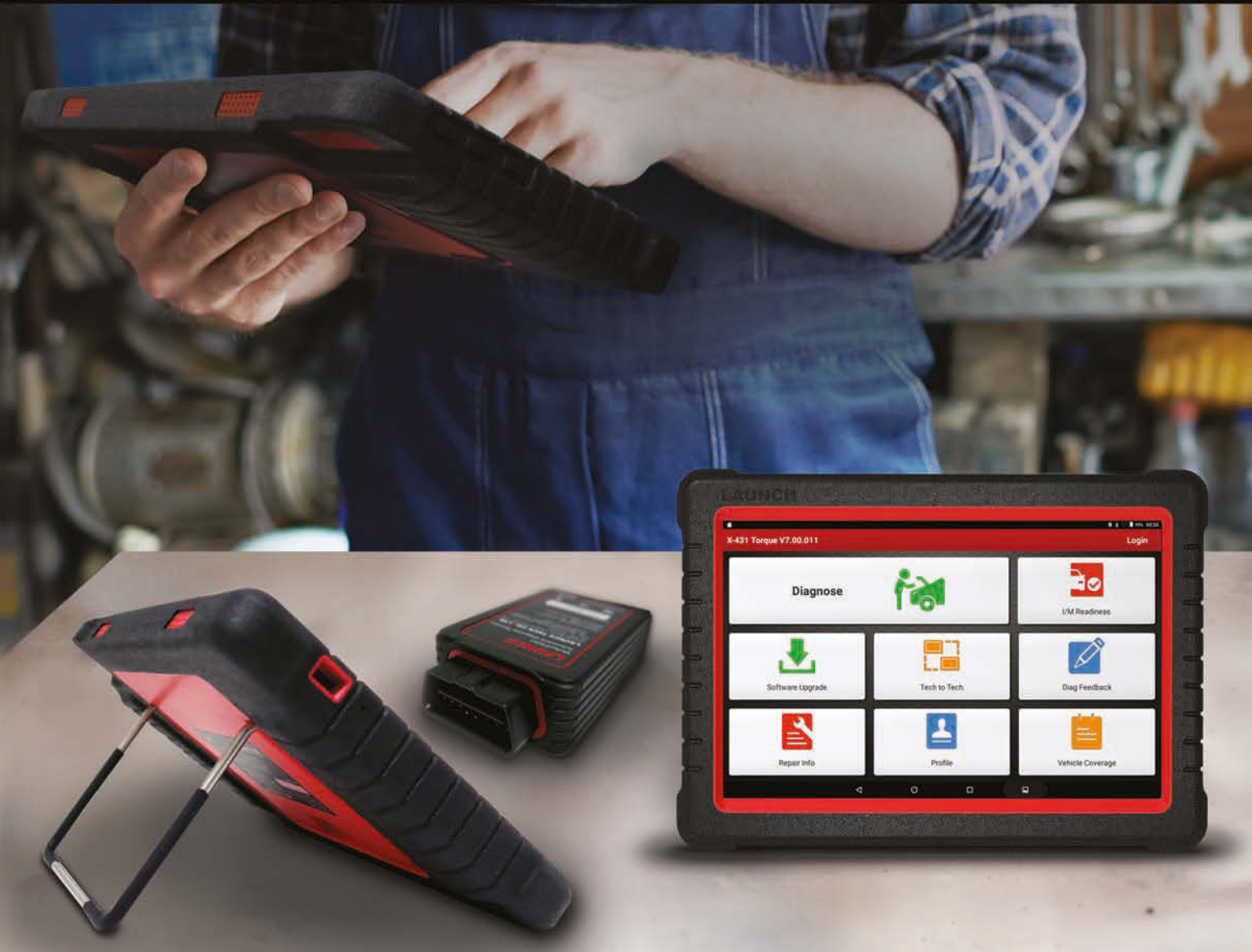
**7 1/4" Hose
Clamp**
85 51 180 A

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AUGUST CONTENTS

EXCLUSIVE

42 2018 PTEN INNOVATION AWARD WINNERS

After reviewing the entries, our judges panel provided feedback to determine the top products in 27 categories for the 19th annual PTEN Innovation Awards. Find product details on all tools and equipment winners.



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Digital inspection tools and the benefits of performing pre-scan and post-scan.

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- Dickies, 874 FLEX, Multi-Pocket Performance Shop Pant and Industrial WorkTech Short Sleeve Ventilated Performance Shirt

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82 BIG-TIME BOXES

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Shop: Brakemax Car Care Center
Location: Tucson, Arizona

ON OUR COVER



Snap-on Diagnostic Thermal Imager Elite

IN THE NEXT ISSUE

We're gearing up for the 7th annual Great Prize Giveaway! Stay tuned for your chance to win tool and equipment prizes. Find all the details in the September issue of PTEN.



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ADAS CALIBRATION

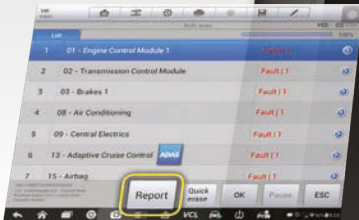
ADJUSTABLE - ACCURATE - AFFORDABLE
 COMPONENTS CALIBRATION COVERAGE

Calibration For
 Camera, Radar, Lidar
 and Night Vision
 Based Driver
 Assist Systems

Ideal For
 Collision Repair
 Wheel Alignment
 Glass Replacement
 Specialty Repair

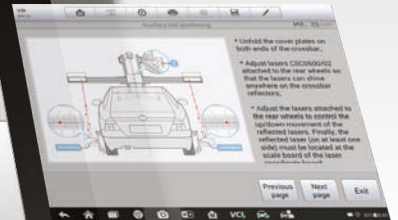


AUTO SCAN DIAGNOSTICS



Single Screen List
 All System Modules
 To Pinpoint Needed
 ADAS Calibration

GRAPHIC INSTRUCTIONS



OE Level Calibration
 Procedures With
 Advanced Software
 Vehicle Coverage

PRE-SCAN & POST-SCAN
COLLISION REPAIR READY SOFTWARE PACKAGE
 Faster ANDROID 4.4.2 OS / Larger 64G Memory / Powerful Hexa-Core Processor



PASS-THRU PROGRAMMING



ADAS TABLET INCLUDES
MAXISYS DIAGNOSTIC FEATURES

BI-DIRECTIONAL CODING & ADAPTATIONS

PLUS

MAINTENANCE SERVICE & RESETS



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ASK THE EXPERT

OEM	Total # of Models	Percentage of HFO-1234f	Percentage of HFO-1234yf
Acura	5	100%	0%
Audi	9	78%	22%
BMW	11	0%	100%
Buick	8	50%	50%
Chevrolet	17	35%	65%
FCA	8	13%	87%
Ford	14	57%	43%
Genesis	3	33%	67%
GMC	6	17%	83%
Honda	9	22%	78%
Hyundai	8	75%	25%
Infiniti	6	100%	0%

HOW MANY LIGHT DUTY OES USE HFO-1234YF REFRIGERANT?

Starting with Fiat Chrysler and General Motors in 2014, the automotive industry switch to HFO-1234yf refrigerant is well underway. For the 2018 model

year as expected, the list of OEMs using the new refrigerant continues to grow. Currently about 50 percent of all new model vehicles for 2018 are using HFO-1234yf. To see the updated list, visit: VehicleServicePros.com/21005163

GUEST BLOG



Each vehicle type has different torque specifications, set by the manufacturer, which must be respected when servicing the vehicle. Not only for the wheels, but also for any other bolted parts, a torque controlled solution must be used to tighten at the required torque. This blog lists seven items technicians should know about torque wrenches. To read more, visit: VehicleServicePros.com/21009868

NEWS



Heavy duty vehicle lift manufacturer Steril-Koni has introduced two adapter kits tailored for its in-ground scissor and piston lifts – each engineered to facilitate more efficient lifting by engaging the front and rear lifting points on buses and trucks. To read more, visit: VehicleServicePros.com/21014767

VIDEO



In this four-part video series featuring celebrity car builder/TV host Lou Santiago, Santiago shares lift safety tips and highlights a couple of cool vehicles: a 1969 Plymouth Road Runner and a 1946 Brockway heavy duty truck. To watch Part 1 of the series, visit: VehicleServicePros.com/21014727

FEATURED PRODUCTS



Injector Retaining Clip Replacer OTC

VehicleServicePros.com/21014147



Hybrid Plier Multi-Tool Klein Tools

VehicleServicePros.com/21009506



34" LED Shop Light Alert Stamping

VehicleServicePros.com/21008821



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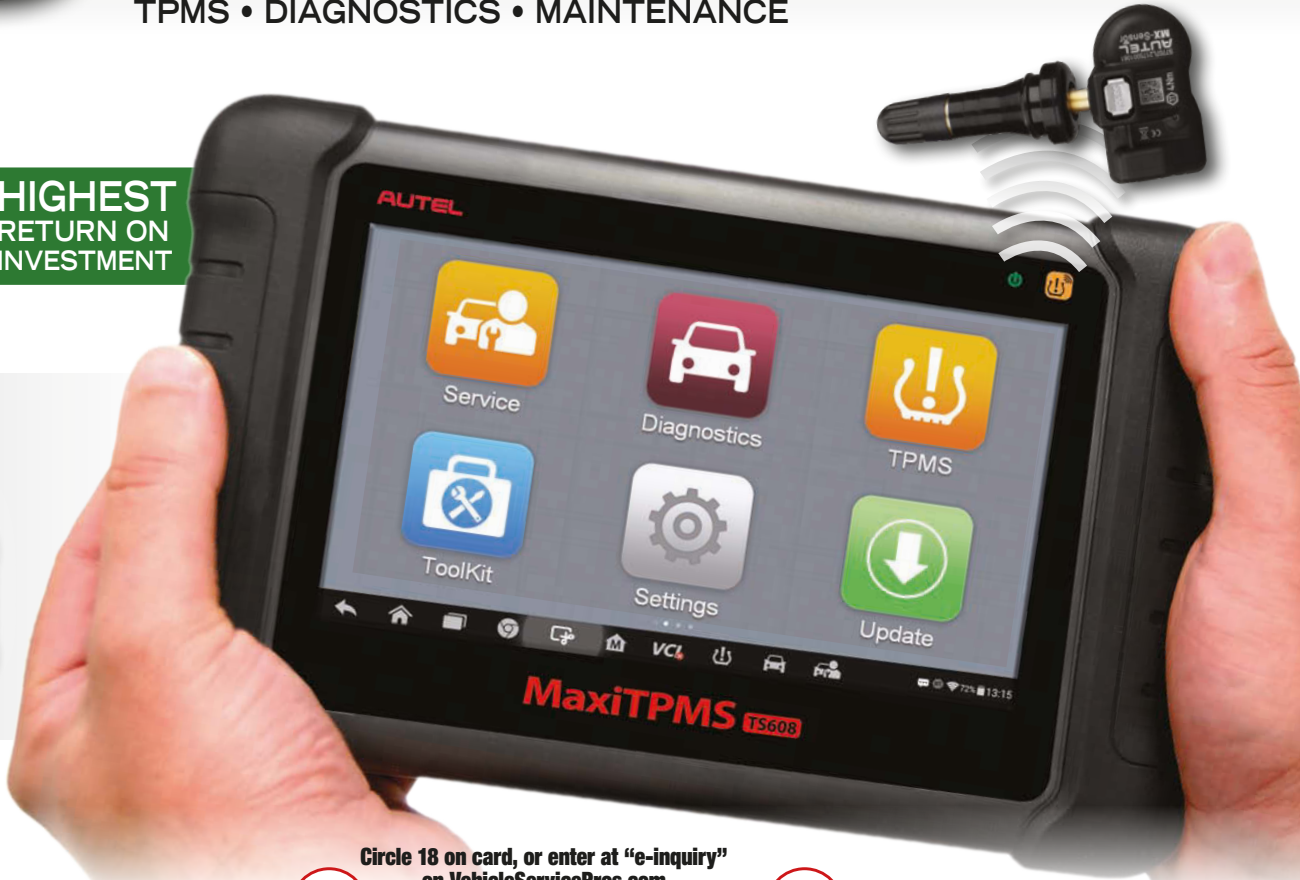
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3 SERVICES IN ONE

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ADVANCED SERVICES

18 SERVICE FUNCTIONS

ALL SYSTEM DIAGNOSTICS

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TS608 SERVICE RESETS



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The 'before and after' scan

It's not just for collision repair anymore.

By Sara Scullin, Editor
Sara@VehicleServicePros.com

Are you one of the many shop owners who is intrigued by the idea of offering customers pre- and post-scan of their vehicles, but have not yet implemented this practice? If so, it might be time to consider how offering pre- and post-scan reports could affect and even benefit your business.

WHAT IS PRE- AND POST-SCAN DATA?

Pre- and post-repair scan data shows the condition of a vehicle's computer system(s) from the time when the car, truck or SUV rolls into the shop. The practice of providing these comprehensive details to customers began a few years ago at the request of most vehicle insurers to evaluate whether any underlying conditions could affect the repair.

Information in these scans includes current and pending codes, as well as the status of monitored systems. Such intel can prepare customers for issues that might arise in the near future or down the road, and back up those suggestions with factual data.

Back in March, Hyundai published a position statement on pre- and post-scanning addressed to the collision industry, and shared this position statement with astech.com.

"It is important that [Hyundai] vehicles involved in a collision have a pre-repair scan and post-repair scan so that repairers are aware of any diagnostic trouble codes that may be present, regardless if a warning light or malfunction indicator light is illuminated," the statement read. "A pre-repair scan will alert the repairer to diagnostic trouble codes or items that may be malfunctioning within the vehicle. This aids the repairer to develop more accurate repair estimates prior

to beginning repairs. The post-repair system scan provides confirmation that systems are functioning properly and calibrated."

Although the above is a recommendation for the collision industry, more repair facilities are picking up the practice to offer a better, more comprehensive service to their customers. Consider the extra assurance pre- and post-scans provide, backed by data, as a value-add. Perhaps this is even becoming an expectation at a time when customers are accustomed to obtaining comprehensive information at their fingertips.

In this month's issue you can learn about tools available for pre- and post-scans, as well as suggestions for implementing this process at your shop, in Barry Hoyland's Tool Briefing column on page 38.

Talking an issue through with a customer *before* the repair is a proactive, trust-building move. Will you be implementing pre- and post-scans at your shop? **PTEN**

Check out the VehicleServicePros.com online product guide, which is updated daily with details on new tools and equipment. To search, visit: VehicleServicePros.com/directory



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FEATURED NEW PRODUCTS

CONNECTS TO SMARTPHONE VIA APP

The **Ullman Devices Digital Inspection Mirror** is smartphone enabled 720p camera with LED illumination. Users can connect this product to their phone through an app. This product is rechargeable via micro USB port with a 30-minute run-time. Users can increase trust and credibility by showing inspection images and videos to customers, the company says.

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FEATURES MOLDED BALL STOP

The **Alert Stamping Weather Proof Outdoor Reel** is NEMA 3R rated, with a single female 5-15C connector and weather cap. This reel is available in two styles: The 5320TSW features a 20' SJTOOW 12/3 cord, 15 amp resettable circuit breaker, molded ball stop and a pigtail that is 60" SJTOOW 12/3 w/lighted male 5-15P outdoor plug; the 5330MSW features a 30' SJTOOW 14/3 cord, 13 amp resettable circuit breaker, molded ball stop and a pigtail that is 60" SJTOOW 14/3 w/Lighted Male 5-15P outdoor plug.

Each includes an "L" style mounting bracket and hardware.

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DETECTS ARC WHEN SENSORS ARE BLOCKED

The **Miller Electric Weld-Mask 2** is designed for hazards operators who weld in tight, non-traditional spaces face. The low-profile design is up to 40 percent lighter than a traditional auto-darkening helmet, and a large singular lens improves the range of visibility. Other features include a close-fitting, soft eye covering that provides total darkness for precision welding, X-Mode technology that continuously detects the arc even when sensors are blocked, shades 5-13 and a flashlight accessory.

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Kicking off the New Products section each month, our Featured New Products page includes brand new products showcased on the cover that are available to the automotive market.



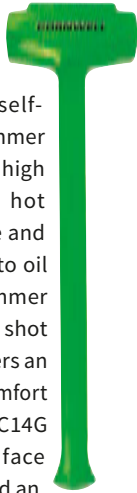
Use infrared technology to track vehicle faults

The **Diagnostic Thermal Imager Elite** from Snap-on uses infrared technology to reveal heat caused by friction, electrical resistance, pressure changes and more to track down vehicle faults and find the fix faster, the company says. The thermal imager delivers detailed images composed of 4,800 distinct temperature zones, making temperatures up to 840 degrees F visible with improved precision. A database of automotive applications, guided tests and reference images help to interpret results. When connected to Wi-Fi, images captured with the Diagnostic Thermal Imager Elite are uploaded to the cloud via Snap-on's Wi-Fi sharing service, AltusDrive.com.

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SELF-HEALING AND DENT RESISTANT

The **Cornwell 12-lb Soft Face Dead Blow Sledge Hammer**, No. CTHTC14G, features a self-healing and dent resistant hammer face. The hammer is made of high quality custom formulated hot cast polyurethane for long life and elasticity, and is impervious to oil and most chemicals. The hammer is molded in Trucothane with shot filled dead blow heads and offers an exclusive textured, non-slip, comfort contoured handle. The CTHTC14G weighs 12 lbs, has a 3-1/4" face diameter, head length of 8" and an overall length of 36".



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DESIGNED FOR HANDS-FREE GREASING

The **Big Gator Tools Original G. Coupler Long Series** is a grease coupler tool designed to allow users to be hands-free while greasing. This patented, lock-on mechanism helps prevent mess and wasted grease. The coupler has a spring-loaded activation trigger. The lock-on mechanism has four hardened spring steel jaws that grasp onto the Zerk. A high pressure seal helps reduce leakage. This coupler is designed to work with all grease gun types, the company says.

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TRANSPORT HEAVY DUTY TIRES

The **JohnDow Tire Taxi HD**, No. JDI-TT1-HD, is designed to allow technicians to transport larger wheels and tires in an efficient and safe manner. The HD Tire Taxi has a diameter of 33" and is designed with 4" industrial casters to maneuver over rough, uneven surfaces. One of the casters can be locked for safe storage. The HD Tire Taxi holds four heavy duty wheels and tires with a load capacity of 552 lbs.

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REMOVES PLASTIC OIL DRAIN PLUGS

The **Cal-Van Tools 4-pc Plastic Oil Pan Drain Plug Tool Set**, No. 38200, contains tools and bits to remove plastic oil pan drain plugs that are found on many late model Ford, Volkswagen, Audi and BMW vehicles. These tools will not damage drain plugs and are designed to slot in and release these plugs, the company says.



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IMPACT- AND WATER-RESISTANT

The **DieHard Twist Focus 2,400 lm Flashlight** offers a beam distance of 300m. The anodized aluminum construction is designed to be comfortable and well-balanced. This light features an impact- and water-resistant, rubber booted tail cap switch and heavy duty, non-slip True Grip handle. The Twist Focus technology allows users to move seamlessly from a spot to a flood beam. The light includes a high, medium, low and flash setting. This flashlight offers a three-hour run-time and includes nine AA batteries.

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NO EXTERNAL WIRES OR CORDS

MAHLE Service Solutions adds three **ShopPRO Commercial Wireless Mobile Column Lifts**, Nos. CML-7, CML-9 and CML-9WB. The fully-certified ALI lifts feature a wireless communication system, 10" touchscreen graphic control system and can be operated in sets of two, four, six or eight. These lifts have no external wires or cords and can be used at a full operating lift height of 69". CML-7 is a 7-ton wireless column lift that has a 14,000-lb capacity; CML-9 is a 9-ton wireless column lift with a 19,000-lb capacity, and; CML-9WB, is a 19,000-lb capacity model with a wide, adjustable carriage for oversized tire engagement.

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INCLUDES BASIC ALUMINUM REPAIR TOOLS

The **Dent Fix Equipment Aluspot Repair System**, No. DF-900B, offers an aluminum-specific stud welder with the ground integrated on the gun, Spitznagel design self-locking stud pull fingers and two kinds of alu-studs. The kit also includes a leverage puller, t-puller, metal bar for crease pulling, two kinds of brushes with metal bristles, stud cut pliers, a mobile storage cart with electrical power strip, consumable storage case, twist-on eyelets and safety glasses. The kit is designed to include all the basics a shop will need to start repairing aluminum, although additional pieces are available separately to expand repair capabilities.

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NEW PRODUCTS

CAN BE SPUN BY HAND UNDER BENT LINES

The **Cornwell Ford 6.7L Diesel Injection Socket Set**, No. SLC11400, is a 17mm, 12 point flare nut socket with deep crowsfoot that gives technicians the ability to remove various injector lines, the company says. The geometry of these tools is designed for removing injectors without breaking or damaging the electrical connections. The crowsfoot can be spun by hand under the bent lines. The long socket has the clearance required and linear shape to properly torque the fuel lines.



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INSPECT TRAILER DRUMS WITHOUT REMOVING WHEELS

The **Central Tools Wheels On Trailer Drum Gauge**, No. 3B631, allows for wear inspection of trailer drums without removing the wheel. The offset arms allow for reach around most axle hardware, the company says. The tool includes two pointed anvils for checking grooves, and an 18" range accommodates most vehicles. A large digital display is designed for easy reading and helps prevent measurement errors.

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ADJUSTABLE JAW ANGLE

The **Matco Tools Adjustable Angle Oil Filter Wrench**, No. OFA515, features an adjustable jaw angle to allow for top, side or bottom filter access. The slip joint design allows for use on 2-1/4" to 4-3/4" oil and fuel filters. For increased leverage, this filter wrench is 17" in length with jaw detents every 30 degrees for 180 degrees of adjustment.



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BLOW OUT CLOGGED TUBING AND PIPES

The **S&G Tool Aid Corp. Air Blow Gun Kit**, No. 99350, is designed for general air blowing applications, air drying of parts and blowing out clogged tubing and pipes. The accessories snap into place on the nozzle tube. The pistol grip blow gun is lever action with a variable air flow. The kit includes: 4" angled nozzle blow gun with hang up slot, three tapered nozzles, high volume venturi nozzle, OSHA compliant safety nozzle and a clear plastic shield. The blow gun has a 1/4" NPT Female air inlet.



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DESIGNED TO BE STRONG, RELIABLE AND VERSATILE

The **Channellock Xtra Slim Jaw Wideazz 8" Adjustable Wrench**, No. 8SWCB, is designed with slim jaws that are up to 40 percent thinner than a regular wrench of the same size, according to the company. This wrench is designed to be strong, reliable and versatile. The wrench offers Code Blue grips for durability and comfort, and is made in Spain.



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DESIGNED TO MAKE HOLES QUICKLY

The **Blair Equipment Company Rotabroach Cutters**

are designed for fabricating fast, high quality holes. These cutters are ideal for sheet metal and plate materials up to 1/4" thick. Precision ground cutting teeth around the hole allow the center to "pop" out as a slug, leaving a virtually burr-free hole, the company says. The Rotabroach cutters cut up to three times faster and last up to ten times longer than twist drills or hole saws, according to the company. The cutters are available individually or in a set with sizes from 5/16" to 3/4". This product is made in the USA.



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FITS INTO HARD-TO-REACH PLACES

The **Steelman Slim Lite with 40' Cord Reel Kit**, No. 99761, is ideal for automotive repair shops and heavy duty truck repair shops. The glass-filled nylon Slim Lite body fits into narrow and hard to reach places. The low voltage light produces 500 lm of usable light with 16 LED while only consuming 3 watts of power. The kit comes complete with hardware for ceiling or wall mount and a low voltage power adapter.

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DURABLE ALUMINUM BODY

The **Allstart IonMetal 5200 Power Bank**, No. 585, features a sleek, anodized design with a durable aluminum body. This power bank is designed to keep smartphones, tablets and other devices charged while on the go. The IonMetal 5200 recharges in 2.5 hours and delivers up to three charges.

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PROVIDE PROTECTION AND RESISTANCE TO PUNCTURE

The **OEMTOOLS Viper Flex 24996L Powder-Free Nitrile Gloves** are designed to provide increased protection and resistance to puncture, keeping the user's hands safe and clean from chemicals and oils. These 5 mil, powder-free gloves offer improved dexterity without compromising durability, the company says. These gloves are offered in sizes small through XXL, and come in packs of 100 or 500.

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HEAVY DUTY STEEL CONSTRUCTION

The **Beta Tools C35 Modular Tool Storage Cabinet** is stationary and can be stand-alone or placed next to other C35 units. These cabinets are available with six, seven, eight or nine drawers. The cabinet features heavy duty steel construction and the drawers are on ball-bearing slides. Each drawer has a 180-lb capacity. The cabinet is key-locking with a centralized safety locking system to secure the drawers. The C35 comes in a two-tone color of smoke gray body and charcoal drawers. The top of the cabinet is 39" high, the width is 28" and the depth is 24".

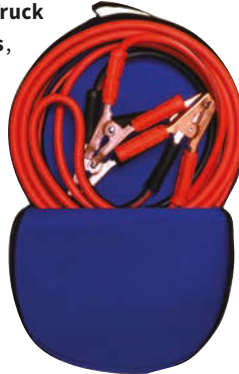
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FOR HEAVY DUTY AND COMMERCIAL VEHICLES

The **Allstart Heavy Duty Commercial and Truck Booster Cables**,

No. 564, are extra long cables for front, side and back hookup. These 20' cables have a 2 gauge wire for use with trucks and commercial vehicles.

With 800 amp clamps, these cables are designed for heavy duty truck and commercial needs.



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SCROLL-DOWN SETTINGS ON LCD DISPLAY

The **H&S Autoshot MultiMIG Synergic Welder**, No. HSW-6420, is designed for aluminum, silicone bronze and steel welding. The welder provides 200 amps of power for MIG, TIG and Stick applications on either a 115V or 230V line. The welder features voltage, wire speed, amperage and full Synergic scroll-down settings for steel, aluminum and silicone bronze on an LCD display. Other features include a spool gun selection switch, euro-connect flange for torch and spool gun and lift-arc start foot pedal connector. The standard package includes synergic inverter power supply, HSL15 torch 10', 200A earth clamp 10', HSM17 TIG torch 12.5', 200A electrode holder 10', foot pedal control 12.5', gas regulator with hose, steel welding wire, AK-2 kit and operator manual. An optional aluminum spool gun is available.

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HELPS DRILL BROKEN BOLTS ON-CENTER

The **Summit Racing Bust-N-Out Bolt Removal Tool Kits** are designed for use with a high-speed die grinder. The kits come with two end cut carbide burrs to prepare broken fasteners for final drilling through their centers with the included drill bit. This helps increase the ability to drill the broken bolt on-center. That helps save the existing threaded hole and component. The kits are available for the following fastener sizes: 1/4" and 6mm, 5/16" and 8mm, 3/8" and 10mm, 7/16" and 12mm and 1/2" and 14mm.

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FEATURES BLUETOOTH WIRELESS TECHNOLOGY

The **Pelican 7 Series LED Tactical Flashlights** offer the ability to reload multiple battery choices including AA, CR123 and rechargeable. The lights are manufactured with an aluminum body and type III hard anodized finish. These flashlights feature Bluetooth wireless technology, allowing the user to personalize modes (up to five switch sequences with varied light levels and/or flashing modes) through an app. The light also offers wireless USB charging, full-time battery level indicator, five selectable programs and four modes: high, strobe, medium and low. All Pelican 7 Series flashlights are covered by a lifetime warranty.

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* A rental fee of \$49.95 will apply for months with less than two flash services.
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PVC IMPACT-RESISTANT PADS

The **Galeton PFlex Pro Impact Resistant, Sandy Nitrile Coated Cushioned Palm Gloves**, No. 13300, are designed to be durable yet flexible, with extra protection padding on both sides. The PVC impact-resistant pads help prevent injuries to hands, fingers and thumbs, while the glove's palm features an EVA rubber padding for impact absorption and a sandy finished nitrile coating for improved dry and oily grip. These gloves are made with lightweight 15 gauge polyester knit, and feature thumb saddle reinforcement for added durability and wear life.



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INTEGRATED THERMAL PRINTER WITH CUSTOMIZABLE HEADER

The **Associated Equipment Graphical Battery and Electrical Systems Tester**, No. 12-2415, performs 12V battery and electrical systems testing, including the ripple diode test and earth ground, as well as 24V starter and alternator systems. The tester has an integrated thermal printer with customizable header for shop use as well as the ability to key-in particulars for the battery model, vehicle license plate and customer name, and is reverse-polarity protected. The unit is sold in a blow molded carrying case that holds the tester, extra paper and optional barcode scanner (sold separately). In addition, the 12-2415 has a replaceable testing cable, stores up to 70 results and can be linked to a PC for printing/data storage.



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RESTORE OLD, HAZY HEADLIGHTS

The **Wurth Headlight Restoration UVCure Sealant Kit** is designed to restore old, hazy, yellowed and foggy polycarbonate headlight lenses for improved illumination. This kit provides permanent protection to the headlight polycarbonate lens, the company says, which helps restore light output and beam patterns. Application is designed to be easy, and the product dries in minutes. The kit includes everything needed for one vehicle.

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CLOCKWISE ROTATIONAL MOVEMENT FOR IMPROVED CONTROL

The **Rupes Gear Drive Dual Action Polisher Bigfoot Mille LK 900E** offers clockwise rotational movement designed to allow increased levels of control and comfort for the operator. The Bigfoot Mille LK 900E features a progressive trigger and variable speed dial that allows users to deliver the desired tool speed and adjust as needed without interrupting the polishing process. Two rubber supports on the body help improve stability when resting on a table or cart. An extra long 9m cord improves maneuverability in the work space. This polisher can be used with 125mm and 150mm pad diameters.

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THREE-POINT LOCKING MECHANISM WITH KEY

The **Strong Hold Products Flammable Safety Cabinets** feature 14 gauge doors that provide improved protection for use in high traffic areas. The cabinets include heavy duty leaf hinges, galvanized shelves, sloped shelves, magnetic shelf labels and 6" legs that allow for forklift or pallet jack transportation. The cabinets meet NFPA and OSHA Standards, with double-wall construction with 1.5" air space, two 2" vents with flash arrestors, 2" deep leakproof sump area, static ground connection and non-sparking three-point locking mechanism with key. These cabinets are available in 45-gal, 60-gal or 90-gal sizes.



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ADJUSTABLE FLAME LENGTH UP TO 90MM

The **Portasol GT220 Professional Grade Butane Torch** is designed to be portable and easy to use. This torch is powered by butane, with no cords or wires. One tank of butane will run this torch for up to 60 minutes at mid-setting, the company says. It provides a flame temperature up to 2,462 degrees F and an adjustable flame length up to 90mm. The GT220 is ideal for soldering joints and brazing components. It can also be used to heat-shrink tubing, strip paint, heat or bend thin metal and loosen frozen or rusted nuts and bolts. This tool is certified ESD-safe and is anti-static.



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NEW PRODUCTS

BLACK OXIDE FINISH FOR RUST PROTECTION

The **Vampire Tools Vampliers Brute Pliers** are designed to be strong, lightweight and versatile. The Brute offers a black oxide finish for protection against rust, and has a hardness rating of HRC60. A longer wire cutting surface and larger opening compared to the company's previous Vampliers help improve versatility, and intermesh teeth interlock over a wider surface area to improve bite for hard-to-grip items. The slender nose allows the tool to reach smaller spaces. These pliers are made in Japan.



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EVALUATE CONDITION OF FLUIDS



The **Acustrip Automotive CoolCheck Visual Dip and Read Test Strips** test freeze/boil point, percent glycol, reserve alkalinity and pH. These strips help users evaluate the condition of fluids on the spot.

These strips are packaged in environmentally sustainable packaging that provides enhanced product information including instructions and color charts, while also reducing the use of plastics.

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CREATE FLUSH AND FULL PENETRATION WELDS

The **Summit Racing Magnetic Hole Welding Tools** are ideal for welding holes in auto body sheet metal and are designed to create flush and full penetration welds without fear of burn-through. This tool can be used to back up the weld area on thin gauge materials. The tools feature a magnetic base that adjusts to the copper pad to fit securely at the weld area.

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RESULTS DISPLAYED VIA CARSMART APP

The **CPS CarSmart Inspector** is designed to enable A/C inspection on every vehicle by providing an accurate, easy to learn and non-invasive A/C system performance analysis. The CarSmart A/C inspector indicates whether the A/C system is operating within OEM specifications by comparing outside humidity and temperature to the inside vent temperature. The results are displayed on any smart device using the CPS CarSmart app. The app allows users to communicate the results of the inspection by email directly to the customer.

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FOR FINE FINGERTIP SANDING

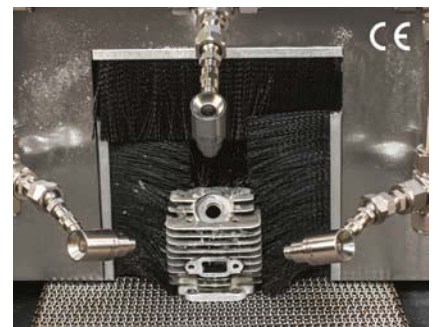
The **Motor Guard Mini-Blocks Detail Sanding Blocks** are constructed of a specially formulated compound, and their ergonomic shapes allow for fine, fingertip sanding on a wide variety of profiles and body lines. Each block measures 3-1/2" in length. The Mini-Blocks are available in three styles: the Rectangular Mini-Block (MB-10) for flat sanding and sharp corners, the Double D Mini-Block (MB-11) with radiused sides for sanding inside contours and the Curved Mini-Block (MB-12) for complex body lines and details. The blocks are also offered in a see-through pegboard display containing three of each block, the AP-7 Mini-Block Assortment.

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LIFTS LOW SITTING VEHICLES

The **K Tool International Hydraulic Service Jack**, No. KT163129, lifts cars and light duty trucks with eight pump strokes. It has 3-1/4-ton lift capacity and features a smooth release. The low profile allows the jack to elevate low sitting vehicles while its padded jack plate protects the contact area from damage. This jack is powered by hydraulic jack oil and is portable. It uses four wheels (two 360-degree swivel casters) to move across a garage floor. Its extra-long detachable handle is designed to make pumping, positioning and storage simple. Designed for rugged commercial uses, this jack features heavy duty all-steel construction.

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BLOWOFF AND CLEANING IN CORROSIVE ENVIRONMENTS

The **Exair 303SS Air Jet** is designed to provide reliable and efficient blowoff and cleaning within corrosive, high temperature or washdown environments. These 1/8 NPT Stainless Steel Air Jets replace open tubes and pipe nipples on parts cleaning, drying or cooling operations. This Air Jet is available in two styles: the High Velocity Air Jet Provides maximum force with a confined and directed airstream, while the Adjustable Air Jet style allows users to control the air upon the target with its micrometer air gap indicator.

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LARGE, LOW-RPM
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UP TO 10 HP ON
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CUSTOMIZABLE FOR ANY JOB

Flexzilla Blow Guns feature ergonomic gun bodies for comfort and control, which helps reduce operator fatigue. A variable flow trigger regulates air volume precisely with maximum flow. The exclusive modular accessories system allows Flexilla blow guns to be customized for any job.

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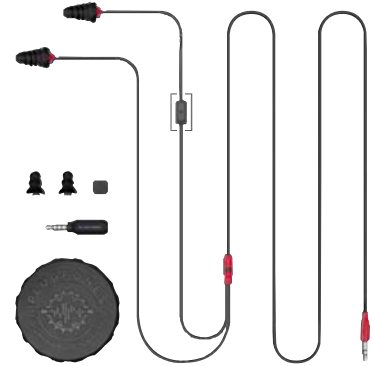
CLEAR TOTES SO USERS CAN SEE INSIDE

The **Beta Tools Organizer Case**, No. 2080/V12, is a plastic modular storage system that has 12 removable tote trays. The trays vary in size to allow storage of different types of small items such as fasteners, zip-ties, hose-clamps, wire-nuts and more.



The totes are clear so users can see what’s inside without needing to open the tote. The totes are removable from the case and come with a belt-loop so users can hook to their belt and have it by their side while working. The carrying-case frame features open-view sides so users can see in the totes even when the case is closed.

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FEATURES NOISE SUPPRESSING TECHNOLOGY

The **Plugfones Protector Earplugs** feature SoundSeal noise suppressing technology, tear-resistant cord and tuned speaker. The Protector Plus earplugs also offer a double-reinforced jack and are sweat resistant. Protector includes one pair of ComforTwist foam plugs, one pair of interchangeable ComforTiered silicone plugs, waterproof hard case, cable management clip, Stereo-to-Mono adapter and a quick start guide.

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ALL-OVER DARK BLACK LOOK

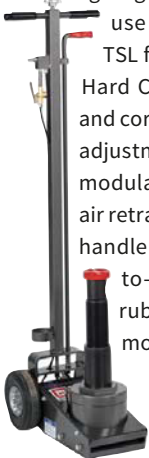
The **CRKT Gungho Knife** is an everyday carry folding knife that features an all-over dark black look. The 2.7” tanto-style blade is finished in black oxide and balanced with an equally dark handle. The top is textured G10 for improved grip, with a stainless steel opposing side for visual intrigue and easy sliding into and out of a pocket. A thumb stud helps deploy the blade quickly and easily, and a frame lock holds the blade in place once open.



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FLEXIBLE START HEIGHT

The **Gray Manufacturing TSL Jack** offers a compact, field-ready design and low starting height that makes it ideal for shop use or road service work. The TSL features the company’s Black Hard Coating to protect from rust and corrosion, acme threaded screw adjustment for flexible start height, modular design for easy repair and air retract ram for easy use. The long handle design works well for hard-to-engage vehicles, and large rubber wheels improve ease of movement.



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INSTALL TORQUE CONVERTER SEALS WITHOUT DAMAGE

The **OTC Torque Converter Seal Installer**, No. 6715, is designed to install torque converter seals without damage. The tool is similar to the J-28540-A, the company says. The tool converter seal installer works on 1990-2011 CM 4T60 and 4T60E automatic transmissions found on most GM front wheel drive automatic transmission vehicles from 1990-2011, including Buick, Chevrolet, Cadillac, Pontiac and Oldsmobile.



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CLEANS AND FOCUSES DIRTY WAVEFORM SIGNALS

The **Autel MaxiScope MP408** is a four-channel oscilloscope designed to measure and test all modern vehicle electrical components and circuits. Notable features include: Low Pass Filter feature to clean and focus dirty waveform signals for easier diagnostics; one-click auto setup of voltage scale and time base; works on advanced sensors and circuits including LIN, CAN and FlexRay data bus systems; intuitive UI design with easy trigger point adjustment and real time scale information display; free software updates; and portable and strong house with protective rubber boot. This tool includes a one-year warranty.



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30 Lumen Tip LED lights
hard-to-reach places



Magnetic base
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You'll never lose light again.

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NEW PRODUCTS



TROUBLESHOOTS CODES AND INCLUDES DPF REGEN

The **Diesel Laptops Universal Diesel Truck Diagnostic Kit with DPF Regen** allows users to read/clear codes, view OEM flash codes, troubleshoot codes and includes DPF regen on Cummins, FUSO, Detroit and Volvo engines. This kit is exclusively made and distributed by Diesel Laptops. The kit includes a Panasonic Touchbook CF-30, PocketFleet Diagnostics Full Heavy Edition with OBD-II, Diesel Laptops DrewTech Adapter with Cable Package, CanDo HD Code II, DTC Solutions, Knowledge Base, TruckFaultCodes.com, US-based technical support and more.

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FLEXIBLE TIP PROBE FOR INSERTION INTO ANY EXHAUST

The **E Instruments F900 Forklift Exhaust Analyzer** with S-Probe and Flex Tip is designed to accurately measure CO from forklifts and small engines for CO safety testing, pre-compliance testing and engine tuning and maintenance. The F900 includes: 12" probe with S-type fitting and exhaust clamp; flexible tip probe for insertion into any exhaust; CO sensor; optional O2 sensor; optional wireless Bluetooth printer; rechargeable battery pack and AC charger; and factory calibration certificate for proof of accuracy.

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FEATURES PATENTED BEAD BREAKER

The Hofmann Megaplan Megamount Twister

Evo CP is a tire changer designed to reduce working time. The clamping through center post for rims 13" to 30" helps avoid damage to the rim from using rim clamps. The wheel life makes tire positioning on the post easier for the operator, the company says, and the leverless tool is engineered to operate on UHP tires, low profile tires and run-flat to make tire demounting operations easy and safe. This unit also features the company's patented bead breaker, which is up to 30 percent stronger than traditional pneumatic bead breakers, according to the company.

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LIFTS UP TO 10 LBS

The **Ullman Devices HT-10 Magnetic Pickup Tool** is designed for retrieving objects in tight spaces. The magnetic head increases power while minimizing flux on the sides, the company says, and can lift up to 10 lbs. The sturdy steel antenna telescopes from 5-3/4" to 25-3/4". This tool also features a textured cushion grip and a pocket clip for added convenience.

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REMOVE INJECTORS WITHOUT ELECTRICAL PLUG CONNECTION REMOVAL

The **Hazet Universal Injector Extraction Tool Set**, No. 4798-6/8, enables the removal of the injectors without having to remove the electrical plug connection or the injector head beforehand. Therefore - without any previous injector defect - reinstallation can be done without recalibration. The universal set is suitable for extracting diesel injectors on brands such as Bosch, Delphi, Siemens and Denso. It consists of a set of special pliers for a secure grip in the clamping jaw receptacle on the injector, two individually attachable handles with joint adapter for pulling and twisting the injector at the same time, as well as a Bosch special adapter for a secure encompassing grip of the injectors. This ensures a consistent transfer of power.

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COOLS LARGE COMMERCIAL AND OPEN SPACES

The **Portacool Jetstream Portable Evaporative Cooler Series** is designed to combine an "impressive" airflow with Kuul Comfort evaporative media that is made in the USA exclusively for Portacool products. This series is designed to help improve comfort and cool larger commercial and open spaces from 700 to 5,625 sq. ft.

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SPEED CONTROL DIAL WITH SIX WORKING SPEEDS

The **Rupes Skorpio E Random Orbital Electric Sander** is a compact, quiet, brushless orbital sander designed to be lightweight and operate with low vibration levels to maximize user comfort and safety. Key features of this brushless sander include: central vacuum compatible, speed control dial with six working speeds, throttle lever, optimized ergonomics, 3mm or 6mm orbit size and multi-hole slim backing pad.

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FOUR PARALLEL FLATS TO DETER ROLLING

The **Milwaukee Tool Ratchet and Socket Sets** are engineered for improved access in tight spaces. Each set features a slim profile 90-tooth ratchet and wrench-compatible sockets designed with four parallel flats to deter rolling, the company says. Labels are engraved on two of the flats to enable easier identification and readability from multiple angles. Each kit comes in a carrying case, and all sets include accessories such as 3" and 6" extensions. Milwaukee offers a lifetime guarantee on all ratchet and socket sets.

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DESIGNED FOR SAFETY ON THE JOB

The **Channellock Insulated Pliers** are designed for professionals who need OSHA-compliant pliers for safety on the job. This pliers line includes four tools: 8" Long Nose Pliers that feature a long, streamlined design for precision handling and XLT Xtreme Leverage Technology to enable cutting with less force; 7" and 8" Diagonal Cutters featuring strong lap joint construction and a durable diagonal cutting-edge design; and 8" Combination Pliers that feature XLT technology, crosshatch teeth for tighter grip and a pipe grip design to accommodate many shapes.

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CONFIRMS PROPER MIXTURE OF DEF

The **Central Tools Combination Refractometer for Coolant, Battery and DEF**, No. 3R401, is designed to combine what is traditionally two products into one. The coolant scale reads from 20 degrees F to -60 degrees F for both ethylene glycol and propylene glycol. The battery scale reads specific gravity from 1.10 to 1.40 and determines the charge state of either recharge, fair or good. The addition of a scale for Urea (DEF) reads from 30 percent to 35 percent with a dominant line at 32.5 percent, which is the ratio required for proper operation of the emissions system. This tool helps confirm the proper mixture of DEF as well as prevent coolant related problems.

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DOUBLE PISTON OIL-LESS COMPRESSOR

The **Mastercool Twin Turbo Complete Recovery Machine for R-1234yf Vehicles**, No. 6930-YF, offers a double piston oil-less compressor and increased cooling by a large fan and condenser. Notable features include a safety high pressure switch, simple internal structure for field service, large volume recovery rate, injection molded high density polyethylene case for improved durability and front cover with built-in bumper guards to reduce damage to the control knobs.

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HEAD TILTS 120 DEGREES

The **Alert Stamping 600 lm COB LED Tilt Light**, No. KWR6CT, features a head that tilts 120 degrees forward and back, a 2,600 mAh Li-Ion battery and dual brightness levels. This light is IP54 rainproof and offers micro USB charging, battery level/charge status indicator lights, magnetic base, aluminum head and rubberized handle.

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TUBE AND DIE SET STABILIZING ARM

The **Mastercool Universal Hydraulic Flaring Tool Set**, No. 72475, features a tube and die set stabilizing arm, magnetic adapter holder, enlarged die set compression area and improved hydraulics. This kit fabricates: Push Connect 1/4, 5/16 and 3/8", GM Fuel Line Flare, Brake Lines and Transmission 5/16 and 3/8", Flare/Double Flare 3/16, 1/4, 5/16, 3/8 and 1/2", Metric Bubble Flare 4.75, 6, 8 and 10mm. The set comes in a custom molded box.

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DESIGNED FOR TOUGH JOBS

The **212 Impact Gloves**, No. IMO-88, are designed to be durable for tough jobs.

The Impact gloves feature full back-of-hand protection and heavy duty, padded palms.

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TIRE CHANGERS



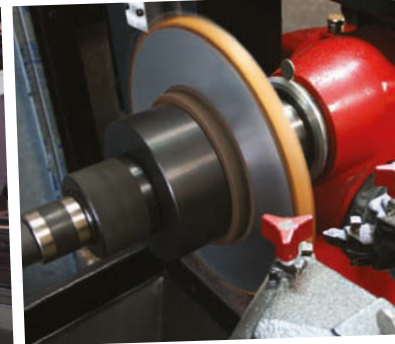
WHEEL BALANCERS



WHEEL ALIGNERS



BRAKE LATHES



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MRP \$3,480
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For technicians challenged to work under a lift all day, common injuries stem from poor working posture and improperly fitted equipment. BendPak's **NEW 10,000-lb. capacity XPR-10AXL and XPR-10XL** two-post lifts feature over **80 inches of lifting height** to absolutely tower above other lifts. Make all jobs easier and support the long-term health of taller techs. Plus, get the best warranty and after-sale support that only comes with BendPak.

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AUTO EXTENDING AND RETRACTING RAMP

The **Branick Industries Model 5700 Tire Spreader** offers an auto extending and retracting ramp designed to simplify tire loading. The hand operated spread arms have a triple bead holding system to keep tires in place on the zinc plated rollers. The electrically powered rollers have hand controlled variable speed and foot operated rotation direction. The tire platform handles truck tires up to 445-50 series, and the platform doubles as a lift to minimize the space required. The Model 5700 has adjustable height and an attached tool tray, and the RMA gooseneck LED provides improved visibility for inspection.

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ATTACHES TO MOST METAL SURFACES

The **Bayco Products Model SL-868 LED Worklight** is designed for portability and functionality. The light features a 40' heavy duty 18/3 SJT retractable cord and a rare-earth magnetic base that attaches to most metal surfaces. The light swivels to illuminate different directions, and a single switch activates the 950 lm floodlight that emits from a 10W LED. The light is built with a tempered glass lens and features a powder-coated aluminum finish for improved durability. The SL-868 is backed by a one-year limited warranty.

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SHAPES OFF FENDERS AND HOODS

The **Monster 3-pc Brass Pneumatic Hammer Set**, No. MSTAHT2, is a non-sparking set designed for body shaping on fenders and hoods. This brass air hammer is ideal for any hammering maneuvers such as ball and U-joints. Its softer metal is better for the outer body of cars than a steel tip that could cause damage to sensitive surfaces, the company says. The 401 shank is also good for use when space is extremely limited.

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ULTRA COMPACT AND LIGHTWEIGHT

The **ACDelco Li-Ion 20V Brushless Two-speed Mini Polisher**, No. ARS2016, is ultra compact in size and light weight, weighing 2.42 lbs. It features a switchable two-speed gearbox with no-load speed at 3,000 rpm and 8,500 rpm respectively. The two-positioned side handle is designed to reach tight spots. The variable speed with reversible and electronic brake control allows a finer craftsmanship finish. The redesigned 20V battery pack with power level indicator built-in helps improve reliability.

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GRIPPING JAWS GRASP STUBBORN FILTERS

The **Lisle 3-Jaw Filter Wrenches and Adapters**, Nos. 63830 and 63850, are designed with gripping jaws to grab even stubborn filters. The 63830 covers the most common filter sizes, and the 63850 works on smaller filters. The removable adapter provides lower clearance in tight spots, the company says. These tools can be used with a 3/8" or 1/2" square drive, and can also be used with a 21mm wrench or socket. The 63830 has a range of 58 to 110mm, and the 63850 has a range of 61 to 124mm.

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INCREASES DRIVE INPUT TORQUE

The **Spectools Box Wrench Power Conversion Attachment Set** converts either 1/4" or 3/8" drive mini head air or cordless ratchet to low profile box wrench output. 1/4" to 3/8" drive adapter included. The head fits most 1/4" and 3/8" power ratchets with round necks up to 1" diameter with 1-1/2" min length. This set increases drive input torque by up to 30 percent, with 40 in-lbs max input, the company says. The slim 1/2" thick profile is designed into fit into narrow and hard to reach areas.

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CREATES A FOAMING ACTION THAT REMOVES CARBON BUILDUP

The **MotorVac DieselTune Emissions and Intake Cleaning Tool** is designed to clean diesel EGR systems. EGR systems can become clogged with carbon deposits that affect fuel economy and performance of a diesel vehicle. Through application specific adapters, this product injects a cleaning solution into the EGR system. The tool creates a foaming action that removes carbon buildup without damaging components. This tool helps dissolve deposits, eliminating the issues commonly associated with plugged EGRs.

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OFFERS BUILT-IN WI-FI

The **Bosch ADS 325 Scan Tool** allows technicians to diagnose, research and repair vehicles in one solution. The easy-to-use interface offers coverage for Domestic, Asian and European brands with one subscription. Users can Auto ID CAN vehicles, read/clear DTC types from all controllers, view data PIDS, perform bidirectional controls, calibrations, resets and relearns. The tool comes equipped with on-tool and online repair information including confirmed fixes, maintenance procedures, component locations key programming and more. This tool offers built in Wi-Fi and Firefox for open browsing, and runs on Android 5.0 with a 64 GB SSD.

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SLOTTED SIDES AND TOP FOR VISIBILITY



The **Branick Industries Model 2010 Utility Tire Inflation Cage** is a patent-pending inflation cage designed to improve safety when inflating NHS tires such as lawn and garden, golf cart, scooter and other small tires. The Model 2010 has slotted sides and top to give visibility to the tire while still providing protection from the small debris common with utility tire failures. The sloped top helps strengthen the cage and prevent items being placed on top that can become projectiles in failure, the company says. The Model 2010 holds tires up to 16” wide and 20.5” in diameter with pressures up to 100 psi, and requires 20” by 20” of floor space.

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AUTOMATIC LOW-FLOW CUTOFF

The **Polyvance 6049-C Nitro Fuzer Lite** offers automatic low-flow cutoff to prevent heating element burn-out; precision flow control on both air and nitrogen sides to allow for welding anything from super-thin tabs to heavy tuck side panels; analog flow meter for repeatable welder setup; 13 types of plastic welding rod; and made in the USA construction. There is a manual switch between air and nitrogen gas, the cart requires assembly by the end user and free courtesy training is not included (there is an included sheet of QR codes techs can scan with a smartphone for instant, on-demand video training).



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LIFTS THE INJECTOR STRAIGHT OUT WITHOUT ROCKING THE PART

The **SP Tools Injector Puller Kit**, No. 16400, is designed to remove diesel injectors from 2011 to 2016 GM vehicles equipped with the LML Duramax engine. Over time and with many miles, the injectors become heavily coated with carbon between the tip and cylinder head, causing them to stick together. When using a factory tool, it rocks the injector and causes binding into the head. This may cause damage to the costly injector. The 16400 Duramax Injector Puller lifts the injector 3/4” straight out without rocking the part. This significantly reduces the possibility of damaging the fuel injector or cylinder head and saves valuable time for the technician.



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CORRECT OFF-CENTER WHEEL STUD ALIGNMENT

The **Ken-Tool Pilot Sleeve** is a line of wheel centering sleeves for steel or aluminum commercial truck steer wheels, drive wheels and inside/outside dual wheels which use two-piece flange nuts. The sleeves are designed to correct off-center wheel stud alignment on wheel mounting holes, which if uncorrected, can lead to out-of-tolerance radial wheel runout, the company says. The sleeves are made from durable, non-corrosive mil-spec grade polyamide polymer, and the self-sizing sleeves take up the gap between the 22mm wheel studs and the 26mm wheel mount holes. These patent-pending sleeves are available in a 6-pc package (No. 30331) and in bulk pails of 100-pc (No. 30332) and 1,000-pc (No. 30333).

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EXTRA LEVERAGE FOR HEAVIER VEHICLES

The **Zendex GoJak SUV**, No. 7016, is rated for up to 7,000-lb vehicles and features a super heavy duty GF Nylon caster and an extra wide steel axle. The pedal on this model is longer than on other GoJak models, providing extra leverage for heavier vehicles. A straight axel design allows wider tires to overhang the jack on the inside, allowing it to accommodate up to a 16” wide individual tire or 10” wide dual tires. The GoJak includes offers a seven-year limited warranty, and a two-year caster warranty.

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MAKES PRIMING MORE EFFICIENT

The **SPDI UV UV Fastlane 2K Mobility Cart Automotive Collision Curing System** is designed to make the priming process more efficient. By using the UV Fastlane Mobility Cart, users can use UV Curing Light as they would spray paint, the company says. The process is effective, easy to learn and includes a training kit that helps educators learn UV Curing for automotive collision in 30 minutes or less.

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FEATURES 360 DEGREE SWIVEL BASE

The **OEMTOOLS 700 lm Rechargeable COB LED Swivel Inspection Light** is designed to be lightweight and powerful enough to illuminate any workspace. A 360 degree swivel base allows users to direct the light in any direction, and the removable magnetic base attaches to any ferrous surface, freeing both hands and allowing users to work easier and more efficiently, the company says. An adjustable dial controls light output from 400 to 700 lm. The light has a 10-hour runtime at 50 percent power and 2.5 hours at 100 percent. The light comes with a hook for hanging, a USB charging port and one rechargeable lithium battery.

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ELIMINATES NEED FOR AIR BLEEDING

The **Vacuum Type Cooling System Filter Kit**, No. 43013, is designed to shorten the time it takes to refill with new coolant by creating a vacuum into the cooling system. This kit eliminates the need to complete time-consuming air bleeding after refilling new coolant, the company says. A conical adapter offers wide application to fit different filler necks, and the kit can be hooked underneath the vehicle’s hood for easy access. The kit includes a vacuum purge and refill tool, coolant hose and a universal radiator cap.

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REMOVE HARD WATER STAINS

The **Shurhold Industries Buff Magic Compound and Magic Wool Hand Pad** is designed to remove hard water stains on glass. Add a small dab, work the product gently in small tight circles until it turns hazy, then buff clean with a dry, microfiber cloth, the company says. This product removes oxidation, staining, surface rust and minor scratches. The Magic wool Hand Pad is an ultra-fine, pure bronze scrub pad ideal for use on chrome, stainless steel and aluminum.

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BUILT-IN BLUETOOTH SPEAKER

The **Advanced Lighting Systems 600lm Rechargeable Handheld**

LED Audio Light, No. AUD601R, has a built-in Bluetooth speaker that provides superior sound quality and wireless control for music play, the company says. The speaker function pairs with the user device in seconds. A



90 degree rotating bracket with a powerful magnet allows the lamp to be securely attached to any metal surface. In addition, a glow-in-the-dark fluorescent reflector makes the lamp easy to locate, and it is IP65 dust and water resistant.

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OFFSET BLADE FOR IMPROVED HAND CLEARANCE

The **Mayhew Tools 4-pc Dominator Straight Scraper Set** is ideal for a variety of applications, including removing gaskets, rust, paint, carbon buildup and floor tile. The set consists of four scrapers: 1/2”, 3/4”, 1” and 1-1/2” wide. Each scraper features an ergonomic handle and blade ground for a sharp edge that can be resharpened after heavy use. The blade is offset to offer hand clearance and improve scraping force in hard-to-reach places. The set is backed a lifetime warranty, and each scraper features a patented, two-composite handle and a capped end.

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VENTILATED MESH KEEPS HANDS COOLER

Galeton's Palomino Meshback Pigskin Drivers Gloves, No. 12755, feature ventilated mesh to keep hands cooler and drier during hot weather, keystone thumbs for better mobility and elastic back for fit. These gloves are made with grain pigskin.

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CAN WELD NEXT TO HEAT-SENSITIVE COMPONENTS

The **Portasol Plastic Welding Kit**, No. PP75, is designed to repair plastic parts including bumper covers, mirror housings, cup holders and more. The cordless soldering iron is portable and easy to use, and the ultrasonically welded gas tank helps provide a safe, reliable butane torch. Heat is transferred through direct contact, allowing users to weld next to heat-sensitive components without damaging or destroying them. The complete kit includes: cordless soldering iron, plastic welding tip, Allen key, cleaning piston, reinforcement grid, instruction and five different 5cm by 20 cm welding rods (Black PE, Ps, PP, ABS and white ABS). All components come fit into a handy carrying case.



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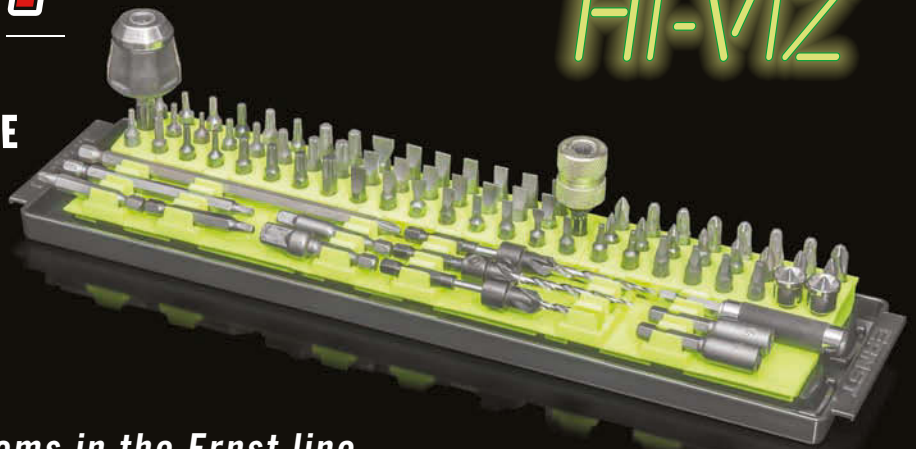
The **ProMAXX Megan ProKit** is designed for the removal of broken exhaust manifold bolts in the Ford 6.2L V8 engine. Megan is available in two iterations: ProPlate for ProMAXX customers who already own one of the company's kits, or ProKit version, which comes complete with all the necessary tooling for new customers. ProMAXX tools are manufactured in the U.S. from American-made materials. The Megan comes standard with a limited lifetime warranty and free unlimited technical support.

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PUSH-BUTTON ADJUSTMENT

The **Matco Tools Hose/Click Clamp Set**, No. SPH7, is a partnership between Matco Tools and KNIPEX. The 2-pc set includes the 7" Hose Clamp Pliers, No. PHC7, and 7" Click Clamp Pliers, No. PHCC7. The hose clamp pliers feature a push-button adjustment with 15 positions and rotating jaw inserts for reliable hose clamp grips in all positions. The pliers also feature non-slip plastic coated handles and serrated jaws behind the tips to loosen corroded hoses without harming the item being compressed.

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FOR SMOOTH WELD BLENDING

The **Walter Surface Technologies ErgoFlex Abrasive Discs with Cyclone Technology** are designed for smooth weld blending on both flat and curved surfaces. These discs help allow for comfortable working angle and cleaner, quieter grinding operations. An aggressive 36 grit or higher abrasive grain blend removes materials fast with minimal gouging risk, the company says. ErgoFlex is suitable for a wide range of grinding operations including grinding welded steel and stainless steel, heavy grinding, weld removal and beveling.

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RECHARGES IN 30 MINUTES

The **Arconic Marson BT-3 Cordless Rivet Tool** is designed to offer stronger pulling force, longer stroke and the ability to install larger fasteners. This rechargeable tool features a 3/16" to 1/4" capacity, 1.18" stroke length, 4,600 lbs pulling force and a recharge time of approximately 30 minutes. The BT-3 includes nose tips for 5/32", 3/16" and 1/4" rivet sizes and is ideal for a wide range of uses including construction, trailer, automotive and more.

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FABRIC STRETCH ALLOWS EASE OF MOVEMENT



The **Dickies Team Performance Work Shirt** is designed with the comfort of workers in mind.

This shirt features mechanical stretch for lightweight ease of movement, color blocking for a race-inspired look and spacious fit through the shoulders and chest for all day wearability. This shirt is stain resistant, moisture wicking, wrinkle resistant and industrial wash friendly.

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REPAIRS CONICAL SEALING SURFACE

The **Koul Tools Fitting Fixer** utilizes an inverted cone with diamond-dust coated lapping material to repair the conical sealing surface on 37 degree fittings. This tool helps fix leaking fittings on the spot, and is ideal for any user that works with hard-line connections, the company says. This tool repairs 3/16” to 1” sizes.



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HANDLES R-134A AND R-1234YF REFRIGERANTS



The **Snap-on Polartek Dual A/C Machine**, No. EEAC334, is designed for recovering, recycling and recharging vehicle A/C systems. The unit handles both R-134a and R-1234yf refrigerants, with dedicated 30-lb refillable tanks for

each to reduce the risk of cross-contamination. This machine features a quick setup software guide and 10” graphic touchscreen for easy navigation. The large status light allows techs to monitor progress while doing other jobs. The unit also offers large wheels for improved portability, vehicle database, an on-board printer and two sets of 120” service hoses.

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DESIGNED FOR REDUCED OPERATING NOISE

The **Hazet High Performance Air Ratchet**, No. 9022-360, is designed to offer high loading capacity with reduced operating noise. This ratchet features “Quiet Mode,” which allows the air ratchet to optionally operate 10 db more quietly, according to the company. This ratchet offers a flat head made from heat-treated steel, and clockwise/counter-clockwise rotation is controlled by an adjusting ring on the handle. Featuring a 1/2” drive, this ratchet has an operating lever that can be rotated 360 degrees, allowing users to work unhindered in tight spaces. This air ratchet is designed to handle torques up to 370 ft-lbs (500 Nm).

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DBA RATINGS BELOW NORMAL CONVERSATION LEVELS

The **EMAX Programmable Air Line** is engineered and manufactured in the USA, and features second generation patent pending Whisper Series Air Silencers to reduce stationary compressor DBA ratings below normal conversation levels. Users can program the day, date and hours of operation; set PSI and RPM ranges; choose continuous variable speed operation or start/stop; and automatically set the time to drain the water from the air compressor tank. The compressors automatically shut down or provide a maintenance warning message when oil levels are low and oil or filters need to be changed. The Variable Frequency Drive Technology allows one unit to be programmed by the user to operate on the majority of input power options on the market.



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AUTOMATIC DISTANCE AND DIAMETER ENTRY



The **Coats 875 Wheel Balancer** is designed for professional balancing service. This balancer offers a step up to medium volume of OE fitments, the company says, and has features such as automatic distance and diameter entry and direct Tape-A-Weight Placement. The 875 Wheel Balancer helps speed up the balancing process to help users meet increasing demand.

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FOR FORD 2004 TO 2012 ENGINES

The **CTA Ford Camshaft Locking Kit**, No 7640U, is designed to service Ford 4.6L V8, 5.4L V8 and 6.8L V10 3V engines, which are found in the Mustang, Explorer, Expedition, Navigator and F-Series trucks between 2004 and 2012. This locking kit is designed to provide quick, easy and precise service. This kit includes the company’s Ford Valve Spring Compressor tool. The 7640 locks the camshaft, while the 7639 locks the timing chain for precision service. This tool kit is comparable to Ford factory tools Nos. 567614 and 567617.

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BUILT-IN LED LIGHT

The **Rockford RFD6109 Jump Starter** starts gas and diesel engines up to 13L. This starter also functions as a charger for personal electronic devices. Its built-in safety features include an auto-off switch, intelligent jumper cables that help protect against overcharge and reverse polarity protection. The RFD6109 includes a battery charging cable, intelligent jumper cable, Type C to Type C data cable and a USB to Micro data cable. The unit features a built-in LED and weighs 4 lbs.

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CAN BE USED ON VARIOUS SURFACES

The **Big Gator Tools Metric V-DrillGuide** is designed to allow users to have the precision of a drill press without losing the accuracy. To use this tool, hold the drill guide on the material, clamp and drill. It can be used on various surfaces. The V-DrillGuide has nine holes that are heat-treated to prevent wearing out. The hole sizes and hole alignment marks are permanently embedded onto the guide. The holes are sizes: 10mm, 10.5mm, 11mm, 11.5mm, 12mm, 12.5mm, 13mm, 13.5mm and 14mm. All V-DrillGuides carry a lifetime warranty and are U.S.-made.

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ONE-HANDED OPERATION

The **1/2" Stubby Impact Wrench**, No. MP-7775, from **Michigan Pneumatic Tool** features a lightweight composite motor housing. The compact wrench allows for one-handed operation, has three speed settings and has left-handed or right-handed reverse options. This tool is ideal for tight applications. The tool runs at 9,000 RPM and delivers 500 ft-lbs of torque in forward and 900 ft-lbs in reverse. The MP-7775 is a durable tool with a jumbo clutch.



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NEW PRODUCTS

WITH FOUR SELECTABLE FORWARD POSITIONS

The **CP8849 1/2" Cordless Impact Wrench** from **Chicago Pneumatic** delivers 850 ft-lbs of torque and provides four settings in forward and one in reverse. This tool is designed for general maintenance on light and heavy vehicles. In addition to two shut-off modes, the CP8849 offers a 50 percent of maximum torque and a 100 percent of maximum torque forward setting, and a full-power reverse setting. Each operating mode is set by pressing the selected option of the brushless motor. A display at the back of the tool illuminates the selected mode. The CP8849 is available with either a 1" or 2" anvil, and comes equipped with two batteries and one charger, with 20V 4Ah or 20V 6Ah options.

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FLEX AT 45 DEGREES

The **CTA 5-pc Fuel Line Flex Sockets**, No. 1809, are designed to flex at 45 degrees to securely grip the direct fuel line. The sockets adjust to the proper angles around the direct fuel line for a reassured grip without losing torque. The Fuel Line Flex Sockets are designed for BMW N54 and N55 chassis models where the steel lines cross the valve cover. The sizes include 11mm, 13mm, 14mm, 15mm and 17mm sockets, which are all used with a 3/8" square drive. The sockets are interchangeable with a simple removal of a lock pin, and the kit comes with replacement pins.

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MULTI-PURPOSE TOOL WITH FIVE FUNCTIONS

The **Klein Tools Hybrid Pliers with Crimper**, No. J215-8CR, feature a high leverage design for improved cutting power. This multi-purpose tool has five functions: cleanly strips 10 to 14 AWG solid and 12 to 16 stranded wire; wide knurled head to grab and twist wires; shears 6 to 32 and 8 to 32 bolts; crimps non-insulated connectors, lugs and terminals; and full-length, induction-hardened cutting knives for long tool life and use on hard wire. The dual-material journeyman handles provide long-lasting, comfortable grip.

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WORKS WITH FACE SHIELDS

The **Nightstick Dicata Intrinsically Safe Headlamp** is designed to function without interfering with face shields. The CREE LED spotlight and LED floodlight uses a series of Total Internal Reflection (TIR) lenses that are designed to optimize output. Two enlarged front-mounted buttons make it easy to toggle through the high/low beam option even while wearing gloves. The spotlight emits 275 lm with a beam distance of 120 meters, while the floodlight emits 205 lm. The Dicata headlamp uses a heavy duty rubber strap to fit on fire helmets and hard hats. It's made of a chemical and impact resistant glass-filled nylon polymer and includes three AA batteries.

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MINIMIZES UNNECESSARY PROCEDURES

The **Hofmann Megaplan Megaline Ssence 500 HD Wheel Alignment** is designed to be fast, simple and ideal for users looking to invest in advanced wheel alignment capability. This unit's software is designed to make life as easy as possible for the operator, minimizing unnecessary procedures, the company says. The VIN code scanner and the automatic camera boom height help improve efficiency for better revenue opportunities.

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DESIGNED FOR USER COMFORT

The **Lumax Heavy Duty Swivel Handle Oil Filter Wrenches** are ergonomically designed for user comfort and feature cushion grip handles and slim, adjustable designs. The yoke and link assembly allows a strong grip but prevents crushed oil filters. These wrenches are constructed from high quality components and built for lasting use and durability. These wrenches are available for a variety of filter sizes. Each filter wrench is sold separately in case pack.

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HELPS IMPROVE SEAL LIFE



The Graco GT 750 36:1 Grease Transfer Pump features Graco's NXT air motor technology combined with its Fire-Ball pump design to deliver high flow rates at a low air-supply pressure. The large 7.5" air motor and pump lower combination allows this pump to move the same amount of grease with up to three to four times fewer pump strokes, according to the company. This helps improve seal life and reduces the likelihood of pump failure due to icing. This product is made in the USA.

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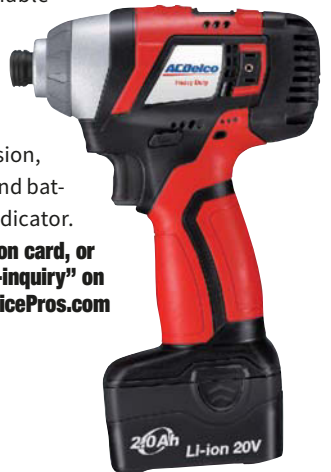
HOLDS SHALLOW, SEMI-DEEP AND DEEP SOCKETS

The Hansen Global 3 Row Socket Trays are designed to accommodate shallow, semi-deep and deep sockets in one tray. Each post holds a socket securely and is marked with the socket size for quick and easy identification. The trays fit easily into the work station, helping users stay organized and immediately identify any missing sockets. These trays are available in 3/8" SAE (No. 38013), 3/8" Metric (No. 38023), 1/4" SAE (No. 14013), 1/4" Metric (No. 14023) or a four-pack that includes one of each size.

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DELIVERS 148 FT-LBS OF MAXIMUM TORQUE

The ACDelco Li-ion 20V Brushless Impact Driver, No. ARI20155, offers a smooth, short body design that delivers heavy impact. The advanced brushless motor delivers 148 ft-lbs of maximum torque. The ARI20155 weighs 2.86 lbs and features metal gearbox housing, variable speed with reversible and electronic brake control precision, built-in LED and battery power indicator.



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Digital inspection tools and the power of data

Boost customer satisfaction by providing timelines of information, starting from the moment they step foot in your shop.

By Barry Hoyland, Contributing Editor

Have you heard the old adage “If you don’t write it down, it never happened”? With today’s digital society, that is even more true. Most people, especially millennials, want complete information instantly. This is even more important when it pertains to something they may not fully understand, like their vehicle. If they do not understand the information you provide, many customers will take the opportunity to go online to obtain enough material to comprehend what you told them.

In your shop, does the need to provide more information to your customer create fear, or an opportunity? There is absolutely nothing wrong with providing a customer information, as long as it is consistent and correct.

CONSISTENT INFORMATION

Your customers expect and deserve consistent information. In order to provide it, you need to instill a culture in your shop where inspections are performed in a detailed and complete manner.

If your shop institutes and maintains a job procedure for the inspection process, each technician will inspect the vehicle in the same way and report the results consistently, thus making it the standard.

From the customer’s viewpoint, consistent information is crucial to building and maintaining trust in your shop. If on one visit a technician recommends (I prefer the term “suggests”) that the struts could be replaced due to age and wear, and on the next visit the same suggestion is not made, the shop’s inspection and service suggestion/recommendation process will seem inconsistent, and the customer

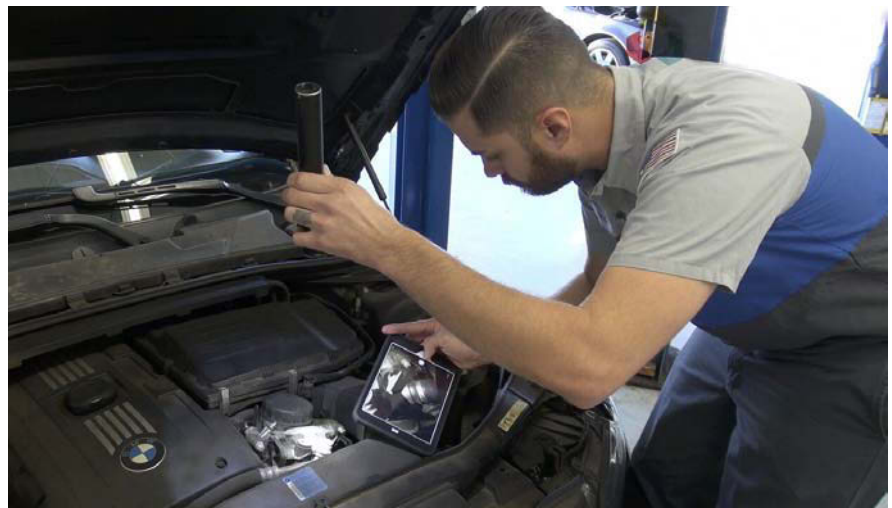


Photo by Auto Vitals

may question whether the first suggestion was necessary.

Having an accurate method of maintaining inspection results from one visit to another is essential for good customer communication.

CORRECT INFORMATION

Along with consistency, correct information builds and maintains customer trust. Mistrust can occur, for example, if Technician 1 performed a visual inspection of brake pad wear during a customer’s visit and reported 70 percent wear of the brakes, and Technician 2 reports 50 percent wear on the next visit. What will your customer think? Who is correct?

As a matter of fact, there are two issues here. The first is you should never report brake, or any other wear item, in percentages. Unless you know exactly what the original dimensions of the new part were, you cannot accurately state what percent of wear is used or remaining. The second issue is it appears each technician is inspecting brakes differently. Again, it is

▲ *The Auto Vitals Tablet has the ability to capture images to show the condition of components.*

important to have an inspection procedure in place, and train technicians to inspect and report the results accurately.

TIMELY RESULTS

With today’s digital-focused and busy society, timeliness of information is a critical element of communication. A number of recent surveys show that text communication between shop and customer not only expedites the approval process, but may also free up time for the service advisor.

A digital format, whether email or text, will allow you to send information to the customer quickly. It also allows you to send images and estimates, and if desired, links to additional information explaining more about the repair.

Possibly the best reason to provide digital inspections to your customer is that doing so adds value to your services. In today’s shop environment, it is neces-

sary to stand apart from your competitors. Since relatively few shops provide a digital report to their customers, doing so sets you apart.

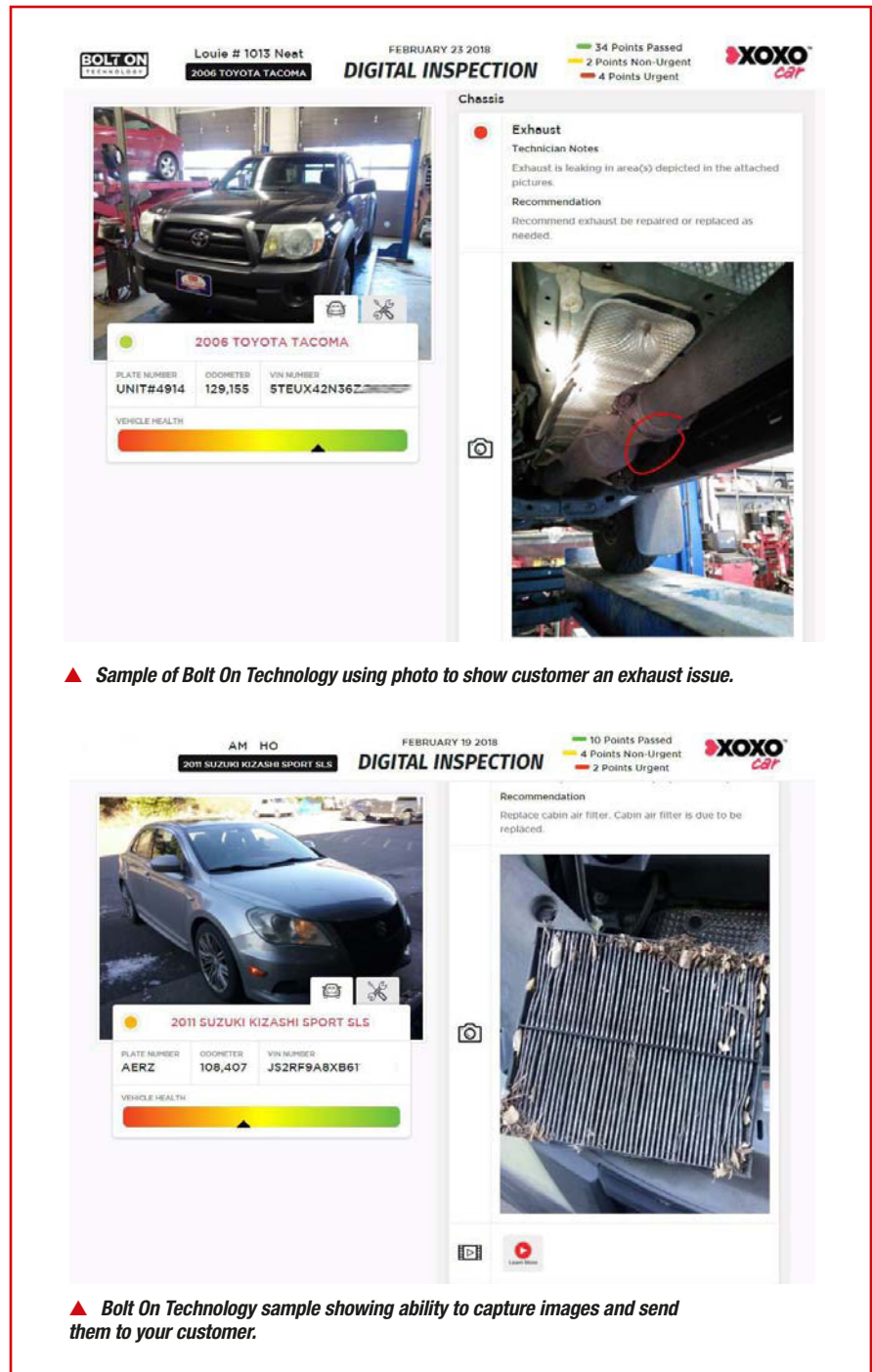
PRE- AND POST-INSPECTIONS

As part of your inspection process, you should consider providing your customer with pre- and post-repair scan data showing the condition of the vehicle's computer system(s) when the vehicle arrived, as well as when it is delivered. Collision shops were first led into this process at the request/mandate of most automobile insurers. They do this in order to evaluate the vehicle for any possible underlying conditions that may affect the cost of a complete repair.

This information allows the insurer and the shop to provide the customer with better information about the vehicle, before any repairs are made. Think about this for a moment and consider the benefits of providing this information to your customer. By providing a pre-scan - including the status of the monitors - would you be able to avoid potential comebacks? Quite possibly.

Let's assume a vehicle has a misfire causing a check engine light to be illuminated. If the technician does not look at and record the status of monitors, they could overlook a pending code from a catalytic converter. Most technicians know that some misfires can cause damage to a catalytic converter, but your customer probably does not understand this. If you were to advise them that based on pre-scan data there is a possibility the converter was damaged due to the engine miss, and the check engine light may come on again after you repair the misfire, you will more than likely avoid having the customer assume you did not repair the vehicle correctly.

The information from a pre- and post-scan of the vehicle should include current and pending codes and the status of the monitored systems. Monitor status can also prepare the customer for issues that arise after a monitor is able to run. For instance, many vehicles are unable to complete an evap test if there is a current code for a misfire. This again could cause



▲ Sample of Bolt On Technology using photo to show customer an exhaust issue.

▲ Bolt On Technology sample showing ability to capture images and send them to your customer.


a check engine light to illuminate shortly after you repair the vehicle.

In both cases, better communication with the customer before the repair can avoid having the customer assume you repaired their vehicle either incompletely or incorrectly.

TOOLS FOR PRE- AND POST-SCANS

The tools required for pre- and post-scans

are tools most technicians routinely use now. Scan tools have the capability of providing this data to the technician and service advisor; they are just a little cumbersome, unless it is a late model scan tool that has incorporated either a way to transfer the information to your shop management system (SMS), or at a minimum, a printable report.

A few recently introduced products are specifically designed to create a 

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Dave Kindig of Kindig-It Design and Velocity's hit series Bitchin' Rides



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TOOL BRIEFING



Report Summary		Vehicle Information		Other Summary	
Report Name	Advanced Health Check	VIN	1GDT196748127728	Items Checked	299
Report Number	278674	Year	2004	Duration	03:05 (Min Sec)
RO Number	KK	Make	GMC	Device	MBT-6
Report Time	09/19/2017 12:30 PM	Model	Canyon	Firmware Version	64Q
Time Zone	US Mountain Standard Time	Engine	3.5 L5 (6)	Script Version	1
Performed By	Frank Choi	Odometer	188239	Applet Version	1.0.23.1
Company ID	4339			Database Version	8/8/2017
Corporate ID	90				
Corporate Name	DENSO CORPORATION				

Category Details			
Category	Overall	Key On	Engine Running
Report Preconditions	✓ CHECKED	✓ CHECKED	✓ CHECKED
Vehicle Information	✓ CHECKED	✓ CHECKED	□ N/A
MIL / DTC / IM / Dash Lights	✗ VERIFY	✗ VERIFY	✓ CHECKED
Battery	✓ CHECKED	□ N/A	✓ CHECKED
Powertrain Misc.	✗ VERIFY	✗ VERIFY	✓ CHECKED
Oxygen Sensors	✓ CHECKED	✓ CHECKED	✓ CHECKED
Evaporative System	□ NOT GRADED	□ NOT GRADED	□ NOT SUPPORTED
Temperatures	✓ CHECKED	✓ CHECKED	✓ CHECKED
Fuel Trim	✓ CHECKED	□ N/A	✓ CHECKED
Fuel / Pressure & Rates	□ NOT GRADED	□ NOT GRADED	□ NOT GRADED
Load / Torque	□ NOT GRADED	□ NOT GRADED	□ NOT GRADED
Throttle / Accelerator	□ CONDITIONAL	□ CONDITIONAL	□ N/A
Misfire / Insectors	✓ CHECKED	✓ CHECKED	✓ CHECKED

▲ Denso's VehicleMRI can help technicians to pinpoint hidden problems beyond typical check engine light issues.

report detailing the status of the complete OBD system. These tools allow you to provide a very easy-to-understand report to your customer that shows current and pending issues to all systems monitored by the vehicle's onboard computer network.

THE DIGITAL INSPECTION

When you add up all the benefits of providing digital information to your customers, it is clear you need a system capable of not only recording results, but also forwarding them to your SMS, and from there to your customer.

There are now tools that will assist you in giving your customers the trifecta: correct, consistent and timely information.

As far back as 2003, I installed an electronic inspection system and process into my shop. The system was created by Delphi and showed me the value of providing reliable digital information to customers. This system allowed each technician to have a tablet with which they performed a walk-around inspection, along with having the

ability to record results of other inspected items, such as brake measurements. The system also collected scan data with current and pending fault codes as well as the status of all monitors.

The data was relayed to my SMS where I could then pass it along to the customer in a printed or digital format. The SMS was also available to refer back to each inspection on subsequent customer visits.

In reality, the system was a little bit ahead of its time and was discontinued by the supplier due to lack of interest from shops.

Vendors now have sophisticated versions of this type of technology for shops to use. The digital inspection systems all have some similarities:

- They communicate directly with most SMS databases.
- Communication between the service advisor and technicians is quicker, better and, in most cases, more efficient and productive.
- Customer communication is faster

and more consistent.

- After implementing a system, sales usually improve.

Since digital inspections are an evolving technology, I would urge you to find out more about each system that is available. Some of the things to consider before purchasing a system are:

- What does the system cost?
- Does the system communicate seamlessly with your SMS?
- Is the system cloud-based or hosted on your computer?
- What developments are they currently working on and are they included in the price?
- What scan tools will communicate with the system?
- What types of hand-held devices are used with the system, Android or iOS?

When it comes to implementing a digital inspection system in most shops, each of the vendors I spoke with had the same comment: shop owners and technicians who utilize all features available see a substantial increase in sales relative to those who use just a few features. Nevertheless, all users will gain benefits by performing digital inspections.

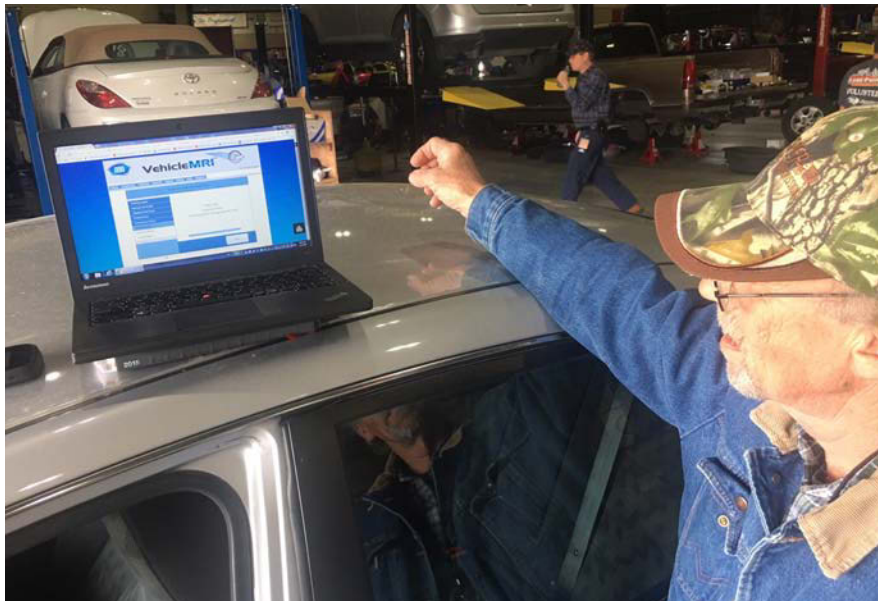
Each of the vendors I spoke with had the same comment about implementing a system in most shops; there are users that utilize all of the features, and their sales

increases are substantial. There are also some shops that just use a small amount of the available features and their sales do not increase as much as those who use all of the features, but all users will gain benefits by performing digital inspections.

I would also suggest checking with your SMS provider to see what system will work well with your management system, as well as which scan tools will allow communication from pre- and post-scans.

I am sure that each of you has an idea of what your individual customers want from you, and how you want to operate your business. Sometimes a product or a way of doing business comes along that just does not sound right for you or your customers, and you avoid implementing it. When it comes to documenting inspections and providing the results to your customers, it is quickly becoming necessary and will be the norm, rather than the exception. I would urge you to consider obtaining a system and implementing it in a way that follows your business model, while allowing you to communicate with your customers better and more efficiently than you currently are able to.

Finally, take the opportunity to attend trade shows, such as the upcoming AAPEX show in November, to see available products first-hand and to check with other vendors to find new products that are being released. **P TEN**



▲ Denso's VehicleMRI in use on-site.

Photo by Denso

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2018 INNOVATION AWARDS WINNERS



Every year, the *PTEN* Innovation Awards feature the newest and most innovative products introduced to the automotive aftermarket. For 2018, *PTEN* received 142 submitted products spanning 27 different categories. Throughout the next several pages, you'll find product details for the winner in each of those categories. For more information on the complete list of 2018 nominees, with full product details, visit: VehicleServicePros.com/2018IANominees.

To view a full list of winners online, visit: VehicleServicePros.com/2018IAWinners.



Rotary Lift

Mach Flex powered by RedFire Rotary Lift's Mach Flex powered by RedFire wireless mobile column lift offers technicians the ability to lift most medium and heavy duty vehicles with a patent-pending remote control. The Mach 14 Flex has a rated lifting capacity of 14,000 lbs, while the Mach 19 Flex has a column capacity of 18,800 lbs and can be used in two, four, six and eight column configurations. Using the remote control lets the technician move around the vehicle while

operating the synchronized mobile columns from anywhere in the bay for maximum visibility and flexibility. The Mach Flex also features LockLight technology which illuminates a built-in green light on top of the columns if a vehicle is in the air and the lift locks are engaged, indicating that it is safe to work on the vehicle.

CATEGORY: Lift, Jacks and Stands

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Snap-on Tools

4-Pack Black Cherry Hand Cleaner The Snap-on Tools 4-Pack Black Cherry Hand Cleaner, No. WOD1125ACSA, removes shop grime with all natural, biodegradable ingredients without drying out skin, according to the company. The Snap-on Black Cherry Hand Cleaner is a concentrated, water-activated formula that naturally removes grime and grease with eco-friendly, 100

percent biodegradable surfactants. Even fifth-wheel grease easily washes away with the cherry-scented cleaner, the company says. Formulated with fibril, a cellulose scrubber, it leaves out skin-drying solvents. Soybean oil is added to ensure hands get clean and stay conditioned. It comes in a four-pack, with refill sizes available.

CATEGORY: Chemicals

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Bosch

HPT 500 High-Pressure Diagnostic Leak Tester

The Bosch HPT 500 High-Pressure Diagnostic Leak Tester offers high-

pressure leak detection for heavy duty vehicles and turbo charged passenger cars. The HPT 500 delivers leak detection smoke up to 20 psi, and is designed with durable construction for technicians and fleet owners. The HPT 500 is an ideal solution for testing and finding leaks in exhaust after-

treatment systems in medium and heavy duty vehicles. The machine includes a bottle of vapor-producing fluid, a remote control key fob, 120V AC power cable, a hex key and wand/tip adapter.

CATEGORY: Leak Detection

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Midtronics

Battery Diagnostic Service System

The Midtronics Battery Diagnostic Service System, No. DSS-5000, features Conductance Profiling, a patented technology designed to provide deeper information about battery State of Charge (SoC) and State of Health (SoH) with fewer Charge & Retest decisions. The technology also identifies batteries with low reserve capacity and flags reserve capacity issues to proactively avoid loss of vehicle function or no start conditions. The system supports diagnostics for conventional lead-acid, AGM and EFB batteries and advanced vehicle systems, including start-stop. The DSS-5000 features an easy-to-carry three-piece design, and includes a detachable controller with 5" full-color touchscreen display, tester pod and charging dock with an option integrated printer.

CATEGORY: Battery Service Equipment

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Lumax

Heavy Duty Quick-Release Grease Coupler

The **Lumax Heavy Duty Quick-Release Grease Coupler**, No. LX-1403, has a compact, innovative design that enables it to firmly latch onto the grease fitting, enabling hands-free greasing in tight spaces, according to the company. The heavy duty quick release grease coupler locks on and creates a leak-proof seal. Pressurized fittings can be depressed by way of thumb lever and release of the coupler. The LX-1403 has a working pressure of 15,000 psi and burst pressure of 22,000 psi. The LX-1403 has four hardened jaws to withstand high pressures without deformation. The company boasts no spurts or splashes when disconnecting.

CATEGORY: Oil and Lube

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Streamlight

Stinger Switchblade

The Streamlight Stinger Switchblade

Switchblade is designed to be a compact, multi-function worklight for automotive professionals. The Stinger Switchblade is five lights in one: a drop light, hands-free light, bright white light, CRI light and UV light. The Switchblade offers a double-sided light bar that rotates 180 degrees to offer three lighting options. The white LEDs deliver 800 lm of area illumination; the CRI light with Streamlight's Color-Rite technology is used for paint matching or checking wires; and the UV light detects HVAC leaks or minor frame cracks. The light's magnetic base attaches to metal surfaces for task-specific lighting. Three hooks, including an integrated retractable hook, allow for multiple hanging options, and it folds for compact storage. The light is rechargeable via USB or any Streamlight Stinger charger.

CATEGORY: Lighting

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Snap-on Diagnostics

ZEUS Platform

The first tool to exclusively feature Snap-on Intelligent Diagnostics software, the **ZEUS Platform** (No. EEMS342) provides all the functions and repair tips that technicians need to quickly diagnose, repair and manage any vehicle issue. The ZEUS platform is designed to anticipate the technician's next move to



guide the user through every step, by displaying only the information that's relevant to the specific vehicle and fault code. ZEUS offers a scan tool, lab scope, functional tests and more. ZEUS uses "Smart Data" to automatically configure the display to show vehicle data parameters (PID) relevant to the fault code, while non-related data parameters are filtered out to save technicians time. It also highlights vehicle data that is out of expected range.

CATEGORY: Diagnostic Test Equipment

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Lisle

Oil Filter Plug for Cummins

The Lisle Oil Filter Plug for Cummins,

No. 57180, is designed to plug the oil filter when changing oil on 2013-2017 Dodge Ram Cummins 2500 and 3500 heavy duty trucks. The plug threads into the filter for a secure seal, allowing the filter to be removed from the tight space without spilling oil. The plug's T-handle is designed to make removal and installation easier. The tool also allows technicians to pre-lube the filter before installation.

CATEGORY: Specialty Tools

Circle 147 on card, or enter at "e-inquiry" on VehicleServicePros.com



Mac Tools

Heavy Duty Geared Air Saw

The Mac Tools Heavy Duty Geared Air Saw,

No. MPS1911, is designed for use in muffler and exhaust applications, general



auto body repair, cutting work, sunroof installation and more. The dual-chuck Heavy Duty Geared Air Saw has a 9.5 mm cut capacity and includes a reverse gear mechanism that reduces stalling, helping to increase the lifespan of the tool, the company says. The tool features a lockout throttle design, 360-degree rotating exhaust that can direct air away from the user, and rubber grip that is resistant to most common automotive fluids. Another key feature of the Heavy Duty Geared Air Saw is it accepts both air saw and reciprocating saw blades, providing versatility to the user.

CATEGORY: Air Tools

Circle 148 on card, or enter at "e-inquiry" on VehicleServicePros.com

SP Tools/Schley Products

Toyota Parking Brake Tool

The SP Tools Toyota Parking Brake Tool,

No. 14150,

was designed to enable technicians to work safer and more efficiently when servicing the brakes on 2000 model year and newer Toyota Tacoma, Tundra, FJ Cruiser, 4-Runner, Land Cruiser and Camry vehicles. This tool is designed to quickly remove the parking brake hold-down cup in the confined area of the rear disc brakes. Without this tool, technicians will usually rig another system that's clumsy and cumbersome using screwdrivers and needle nose pliers. The 14150 was developed to do this job in a quick, one-handed manner.

CATEGORY: Brake Service

Circle 149 on card, or enter at "e-inquiry" on VehicleServicePros.com



2018 INNOVATION AWARDS winners



Milwaukee Tool

PACKOUT Modular Storage System

The **Milwaukee Tool PACKOUT Modular Storage System** is an attachment system which allows boxes, organizers and totes of multiple sizes and configurations to stack and lock together. An intuitive and quick attachment mechanism gives users the freedom to stack and lock PACKOUT tool boxes, organizers and totes of different sizes in numerous configurations that best suit their needs. The initial PACKOUT Modular Storage System will consist of eight products — three toolboxes, two organizers and three storage totes.

CATEGORY: Tool Storage

Circle 150 on card, or enter at “e-inquiry” on VehicleServicePros.com



Mitchell 1

ProDemand 1Search Plus

The **Mitchell 1 ProDemand 1Search Plus** features advanced search technology. It scans the Mitchell 1 content database and returns only the specific information needed for the year/make/model. OEM and SureTrack real-world information are more tightly integrated and returned together in a graphical layout, organized in the same flow that auto technicians use when approaching a diagnosis and repair. Technology exclusive to Mitchell 1 makes it possible to deliver more targeted results in a card format, organized from code to real-world component diagnostics, to OEM removal and replace. Technicians can see complete service information specific to the selected vehicle, making it easy to select the exact information they need to complete the job. OEM and real-world information is presented together on a single page, so technicians can spend less time scrolling as data is now categorized into more specific cards.

CATEGORY: Repair Information

Circle 151 on card, or enter at “e-inquiry” on VehicleServicePros.com



TEXA USA

AXONE HD

The **TEXA USA AXONE HD** truck package incorporates light, medium and heavy duty truck diagnostics software with a proprietary display tablet, the AXONE Nemo. The AXONE Nemo was fully developed in-house according to military standards for ruggedness and water resistance. It runs a full open version of Windows 10 Pro as its operating system, allowing additional programs and services to be loaded thanks to magnetic expansion modules. The operating system is supported by an Intel Quad Core processor, 256 GB SDD hard drive, 8 GB of RAM, and boasts two 5MP cameras, in a complete sealed rugged outer shell and topped of with a 12” Gorilla glass screen. The tool offers parameter resets, bi-directionals, wiring diagrams, technical data and more. Updates are optional with no skip penalties.

CATEGORY: Diagnostics, Heavy Duty

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SP Tools/Schley Products

Sensor Socket Set

The SP Tools Sensor Socket Set,

No. 15300-EGT, is designed to remove exhaust temperature sensors on most modern automobiles. Because of heat cycles and the corrosive environment of the modern diesel exhaust system, the EGT sensors become very difficult to remove without destroying them.

These sockets are designed to drive all six sides of the hex equally to reduce the chance of damage, and they are reinforced to eliminate flex. The complete set includes three different sizes (13mm, 14mm and 17mm) and two different styles engineered to remove most, if not all, EGT sensors used on cars, as well as light, medium and heavy duty trucks.

CATEGORY: Engine Service and Repair

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Bartec USA

QST250 Parking Sensor Tool

The **Bartec USA QST250 Parking Sensor Tool** is designed to give a visual indication of the output signals of parking sensors using ultrasonic sensors on a range of vehicles. The extended pick lead allows a single person to operate the vehicle and test the sensors while in the driver's seat, ensuring the system can be safely tested by a service technician. The tool features wired detector extension, LCD screen, automatic test procedure, frequency meter, signal strength meter, low battery warning and auto switch off time, and a one year factory warranty. The kit includes four AAA batteries and a quick start guide.

CATEGORY: Body Shop

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Snap-on Tools

3/8” Drive Cordless Long-Neck Ratchet

The Snap-on Tools 3/8” Drive Cordless Long-Neck

Ratchet, No. CTR767, is designed for jobs that require reach, such as removing or installing timing belt, water pumps, valve covers and work near a firewall. The tool offers an extended 6” long neck and rugged construction that supports up to 40 ft-lbs of torque output while the ratchet mechanism, head and neck are strong enough to handle 158 ft-lbs of manual torque. The ratchet has a variable speed trigger for improved control and can reach 275 rpm free speed. The CTR767 is rechargeable and features a built-in fuel gauge to monitor battery capacity, and comes with two batteries, a charger and a charging cable.

CATEGORY: Power Tools

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ALLDATA

ALLDATA Diagnostics

ALLDATA Diagnostics turns any tablet into a scan tool. ALLDATA Diagnostics has a Vehicle Connection Interface (VCI) that attaches to the vehicle's OBD-II port and links wirelessly via Bluetooth to an Android or Windows 10 tablet. This scan tool has ALLDATA Repair or Collision built in, which allows codes to link directly to relevant OEM-direct articles, including interactive color wiring diagrams. Technicians can retrieve and clear manufacturer P, B, C and U codes. The tool also reads and displays PIDs, providing live sensor data from all modules and vehicle systems, and offers bi-directional component control. ALLDATA Diagnostics offers full system pre- and post-DTC scan reporting with PDF exports, and includes coverage for domestic, European and Asian vehicles. The tool enables technicians to access system tests, relearns, resets, initializations and calibrations as supported by the manufacturer. Users can also utilize Drive Test mode to access diagnostic features without being connected to the Internet.

CATEGORY: Scan Tools

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Snap-on Tools

Heated Hoodie



The **Snap-on Heated Hoodie**, No. SSX17P111, was made to keep technicians warm and dry and their mobile devices charged. Rather than bulky warming layers that restrict movement, this Snap-on hoodie cranks the heat on its own for up to eight hours. The garment has a rugged, water-resistant exterior with a reflective logo. Inside, the hoodie protects the head, while banded cuffs, waist and thermal lining help retain core and extremity heat. An included battery pack regulates dual zones with three heat settings. The pack has a built-in flashlight, battery supply level display and USB ports to charge phones and electronics.

CATEGORY: Personal Gear

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Cal-Van Tools

Versa Drive 2 in 1 Adapters



The **Cal-Van Tools Versa Drive 2 in 1 Adapters** work with cordless or electric drills to allow the user to switch between bits and sockets without the hassle of changing adapters. The 3/8" adapter has a 1/4" hex built in to the drive the 1/2" drive has a 5/16" hex. To use, use a socket and then a bit without taking the time to loosen the chuck. These items are rated for use up to 167 ft.-lbs of torque. The shank of these adapters is 1/4".

CATEGORY: Tool Accessories

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Dent Fix

EZ Nitro Plastic Welder Kit

The **Dent Fix EZ Nitro Plastic Welder Kit**, No. DF-EZN1G, eliminates the need for refilling nitrogen tanks and has a smaller footprint, taking up less space in the shop thanks to its onboard nitrogen generator. The proprietary Flow Adjust Switch Technology (FAST) system makes the DF-EZN1G easy to learn and use, according to the company. Equipped with two welders, the DF-EZN1G incorporates both a nitrogen welding torch and an airless welding torch. The nitrogen torch is air cooled. The unit comes with plastic rod in various types and sizes to enable the user to weld different types of plastic and different types of damages. Also included is a roll of aluminum tape to hold parts together when welding. The hand seaming tool helps shape, flatten and ensure that repaired flanges and tabs are the correct thickness. The cart is equipped with a heat gun holster, and a power strip for powering other tools such as the optional digital set heat gun (No. DF-900HG) and thermal hot stapler (No. DF-800BR). The welder uses 110 V and a maximum of 10 amps, with a total consumption of 600 watts maximum.

CATEGORY: Welding

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Hunter Engineering Co.

AutoComp Elite Brake Lathe

The Hunter Engineering Co. AutoComp Elite Brake Lathe

The **Hunter Engineering Co. AutoComp Elite Brake Lathe** has a patented automatic compensation technology that directly determines the position of the internal compensation plates without operator intervention. The 7" touchscreen provides a user-friendly interface that allows technicians to look up required adaptors, operate the lathe, including changing cutting direction and speed and view instructional videos. The interface also includes the BitMinder feature which monitors bit life and recommends replacement to improve cut quality and reduce waste. AutoComp Elite also includes patented Anti-Chatter Technology (ACT) which eliminates the buildup of vibration (chatter) that can occur when machining rotors at a fixed speed. This provides the smoothest possible rotor finish without the use of chatter bands or other cumbersome devices, the company says.

CATEGORY: Shop Equipment

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CATEGORY: SPECIALTY TOOLS



57180 Oil Filter Plug for Cummins

The **Lisle Oil Filter Plug for Cummins, No. 57180**, is designed to plug the oil filter when changing oil on 2013-2017 Dodge Ram Cummins 2500 and 3500 heavy duty trucks. The plug threads into the filter for a secure seal, allowing the filter to be removed from the tight space without spilling oil. The plug's T-handle is designed to make removal and installation easier. The tool also allows technicians to pre-lube the filter before installation.

SELLING POINTS: Threads into the filter for a secure seal so the filter can be removed from the tight space without spilling oil. T-handle makes removal and installation easier. The tool also allows the technician to pre-lube the filter before installation.

FEATURES AND BENEFITS: This tool prevents oil spilling into the wheel well by threading into the oil filter for easy removal and no spilling.

APPLICATION: Used to Plug the Oil Filter When Changing Oil on 2013-2017 Dodge Ram Cummins 2500/3500 Heavy-Duty Trucks.

ORIGIN: This tool idea came from the field because of the awkward angle that the oil filter has to come out of on newer Dodge Cummins pickups, causing oil to be spilled.

MANUFACTURING/ENGINEERING SPECIFICATIONS: This product is made in the United States. The filter plug is made of glass filled plastic for strength. This tool weighs 2 oz.

STORAGE AND DISPLAY: This item is shipped in a skin pack card. There is one unit per package.

DEMONSTRATION: <https://www.youtube.com/watch?v=owb4K6pa5LM>

SUGGESTED RETAIL PRICE: \$14.25



For more information on this product, visit:

www.lislecorp.com

JUDGES COMMENTS

"Any tool that helps reduce spillage is a winner."

"Simple but effective and solves a problem."

Lisle Corporation Currently Pays Royalties to More Than 115 Individuals.

For 115 years, Lisle has been a leader in developing and marketing new tools for the automotive service industry. Most of these new tools were developed by our own engineering department ... but many successful tools were the ideas of individual mechanics who recognized a problem and came up with a tool to solve it.

If you have an original tool idea which others may need, Lisle Corporation is interested in evaluating your idea.

Your idea may be produced and sold by Lisle Corporation under an attractive Award or Royalty Agreement that will bring you income for years to come. Even with a very good tool idea you need someone who can manufacture and sell the tool.

Lisle Corporation has been working with many individuals on an award or royalty basis for many years. The following story shows how mutually beneficial this agreement can be...

Fill out the online form here <https://www.lislecorp.com/idea-program/request/> and we will send you an Idea Disclosure Agreement.

Sign and return the Idea Disclosure Agreement to us along with a description of your tool idea. If you have a working model, sketch, or drawing of your idea, it is helpful to include these with agreement. Please note, all disclosures are made on a non-confidential basis.

We will promptly evaluate your idea. We will notify you whether or not we will offer an award or royalty. The awards are based on many factors including: date of submission, identification of the problem, precise solution to the problem, status of patent protection, originality of idea, utility of idea, and uniqueness of idea. The decision on awards is solely at the discretion of Lisle Corporation and is final. ■

Circle 161 on card, or enter at "e-inquiry" on VehicleServicePros.com



NEW TOOLS



64100 ACTUATOR MOTOR WRENCH SET

Toothless, infinite ratchet and hinged handle design make it easier to remove and replace fasteners on small, electric HVAC motors. These motors are commonly found in confined areas under the vehicle dash. Ratchet can be flipped from clockwise to counterclockwise drive. Includes 8mm socket and 1/4" Square Drive Adapter for use with 1/4" sockets and bit holders.



71400 GM



71500 Dodge



71400 MANIFOLD DRILL TEMPLATE - GM 4.8L, 5.3L & 6.0L

71500 MANIFOLD DRILL TEMPLATE - DODGE 5.7L HEMI

71400 removes broken exhaust manifold bolts on GM LS III 4.8L, 5.3L and 6.0L motors and 71500 removes broken exhaust manifold bolts on Dodge 5.7L Hemi motors without damaging the cylinder head. Tapered bolts center the base plate over bolt holes and slip fit bushing allows you to move from hole-to-hole without moving base plate. Includes bushing to drill to tap size when extractor cannot be used. Double sided drill depth gauge to make sure water jacket is not pierced.



81780 CARBIDE SCRAPER SET 5/8" & 1-1/4"

Removes gasket residue from steel and aluminum heads and manifolds, along with carbon build-up and even rust. Tungsten carbide is brazed to the steel blade.



61040 65MM 14 FLUTE END CAP WRENCH FOR TOYOTA

Universal wrench allows for easy removal on all 65mm 14 flute Toyota and Lexus cartridge oil filters. Provides multiple contact points. Forged steel for durability.



29090 TRUCK ANCHOR PIN BUSHING DRIVER, 2 PC.

Pneumatic bushing driver set removes and installs truck and trailer 1-3/8" anchor pin bushings and stuck anchor pins. The 11-1/2" long driver allows bushings to be driven straight without removing the hub assembly. Double-sided cone snaps onto driver to drive out and install bushings. Also removes truck leaf spring bushings.



81810 5/8" CARBIDE SCRAPER, 5"

Designed to remove gasket residue from steel and aluminum heads and manifolds, along with carbon build-up and even rust. The carbide scraper features a shorter and narrower double-dip grip handle. Can be used to clean disc brake caliper slides. The tungsten carbide tip is brazed to the steel blade that is molded into the comfortable 5" long handle. The tip remains very sharp and is precision ground.



49040 TRUCK CAGE BOLT SOCKET, 1-1/16"

Extra deep alloy steel 1-1/16" socket works on 30/36 spring brakes on 2016-2017 Freightliner dump trucks and removes other types of clamps and bolts. Use with 1/2" drive and impact wrench. Socket is forged from alloy steel and heat treated. Also works on other 1-1/16" deep applications.



70450 FLEXIBLE LIGHT HOLDER WITH SPRING CLAMP

71070 FLEXIBLE LIGHT HOLDER WITH MAGNETIC BASE

Flexible light holder works like a third hand. Strong industrial spring clamp and powerful 2" diameter, 50 lb. pull magnet allows a light to be conveniently located. A flexible 9" gooseneck design provides bends over 90° and rotates 360° to aim light where it is needed. Holds a variety of flashlights or trouble lights (from .625" To 2" diameter) with the two position, flexible finger design.



51800 SPOT WELD CHISEL, 180 DEGREE

Use to separate panels after the spot weld has been drilled out. Drive the blade with a hammer from the top or the side between the panels. The blade is sharpened on three sides and offset for clearance.



57180 OIL FILTER PLUG FOR CUMMINS

Used to plug the oil filter when changing oil on 2013-2017 Dodge Ram Cummins 2500/3500 heavy-duty trucks. Threads into the filter for a secure seal so the filter can be removed from the tight space without spilling oil.



17182 SMALL FLUID EXTRACTOR PUMP

For evacuating or topping off the brake master cylinder. Design allows use with other small reservoirs like power steering, coolant reservoirs and transaxles. Pump has 4oz (.12qt/120cc) capacity. Includes adapter to bleed brake master cylinders.



72300 LED DEUTSCH TERMINAL KIT, 7PC

Helps remove terminals from connectors without damage. Lighted handle. Quick-connect tools designed to fit Deutsch HD10, HD20 and HD30 connectors plus Deutsch Jiffy Splices. (AWG 4 to AWG 20).



37370 GLOW PLUG HARNESS PULLER

Removes and installs the wire harness on glow plug connectors on Ford 6.0L and other diesel engines. Helps prevent damage to the harness and connector rail. The harness is fragile and can break, but with a better grip the technician will have more control when removing the harness.



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19612 MULTI-APPLICATION OIL FUNNEL, 12PC

Includes five new adapters and holders for storage. Helps eliminate oil spills when refilling crankcases, especially those with baffle valve covers. Update kit for 19342 is also available in part 19622.

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LTI Tools

German Vehicle Rotating Ring Lug Nut Removal Kit, No. LT4569, is designed to easily remove the rotating ring lug nut locks on Audi, BMW, Mercedes Benz, Porsche and VW. The kit includes a patent pending heat resistant silicone welding shield that protects the wheel from heat damage when MIG welding the rotating ring to the lug nut. Once the rotating ring is welded to the lug nut, users can remove the lug nut using the included twist socket. The kit also includes a lug nut removal twist socket. The LT4569A is a consumable item with factory defect warranty only.

LT4569B has a lifetime warranty.

CATEGORY: Tire and Wheel Service

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Robinair

LD7 Premium Refrigerant Leak Detector

The **Robinair LD7 Premium Refrigerant Leak Detector** senses the most common refrigerants used today, including R-134a and R-1234yf. Two detection modes display proximity to leaks by either a bar graph or line graph. Audible chimes and visual graphs are designed to help technicians locate leaks faster. Both modes allow for the sweeping of a system, showing technicians when they get closer to a leak. An integrated UV LED light helps locate leaks when using UV dye for an all-in-one leak detection tool with a 10-year sensor life.

CATEGORY: Air Conditioning Service

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ALLDATA

Collision Advantage

ALLDATA Collision Advantage



combines the power of ALLDATA Collision with the protection of estimate integration. Once a technician creates an estimate with any of the three major estimating systems, ALLDATA Collision Advantage analyzes it in seconds, then provides detailed OEM repair information and printable documentation, all on one screen, including OEM procedures and alerts, vital repairs and vehicle-specific manufacturer's positioning statements.

CATEGORY: Computers and Software

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Snap-on Tools

Digital Multimeter, Circuit Tester and "Y" Terminal Master Kit

The **Snap-on Tools Digital Multimeter, Circuit Tester and "Y" Terminal Master Kit**, No. EEDMCT-KIT, brings a digital multimeter, circuit tester and "Y" terminal adaptor set together in a 12V and 24V automotive master kit. As an answer to a growing need for varying size non-intrusive terminal adaptors, Snap-on developed the "Y" Terminal Adaptor Kit, No. MTTL900-KIT. Packaged with the Auto-Range AC/DC Digital Multimeter (No. EEDM504D) and the Interchangeable Tip 12V Digital Display Circuit Tester (No. EECT413), this is an all-in-one collection of electrical testing solutions. The foam organizer fits into a 4" by 18" tool storage drawer.

CATEGORY: Electrical Systems

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Snap-on Tools

Video Inspection Scope

The **Snap-on Tools Video Inspection Scope**, No. BK3000, detects problems in hard-to-reach areas and diagnoses issues from one screen. The scope is designed to minimize disassembly while diagnosing problems with its ability to reach areas under dash, in door and inside the transmission. With an 8.5mm high-res imager, this scope offers adaptable functionality with its three-step zoom, adjustable brightness and 180-degree image rotation. The scope has a five-key switch and 2.5" user-friendly LCD screen. The unit can store up to 30 images, is powered by AA batteries and is resistant to dust, dirt and water ingress for 30 minutes at up to 3m.

CATEGORY: Inspection Tools and Lab Scopes

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SP Tools/Schley Products

Sensor Socket Set

The **SP Tools Diesel DEF Tube Release Forks**, No. 15200, are used by technicians servicing modern diesel powered Ford and Dodge trucks. Newer vehicles are equipped with diesel exhaust fluid (DEF) systems requiring frequent service, and DEF Tube Release Forks enable technicians to work more efficiently, the company says. The set of forks include three sizes, each of which have two angles designed to depress the locks retaining the lines. The fork sizes fit most DEF fill and breather lines equipped on Ford and Dodge trucks, and the different angles access most locations.

CATEGORY: Hand Tools

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BEGINNING IN SEPTEMBER

Register for tools, equipment and much more!*



IT'S BACK

SPONSORED BY:



Brought to you by:



*Prizes listed are for example only. Actual prizes will be available in the month of September.

CATEGORY: SHOP EQUIPMENT

HUNTER
 Engineering Company


2018 PTEN INNOVATION AWARDS WINNER

Hunter's AutoComp Elite® Brake Lathe

Hunter's AutoComp Elite® brake lathe is the proud recipient of the PTEN 2018 Innovation Award. The AutoComp Elite® has been approved by almost all OEs including Acura, BMW/Mini, Fiat Chrysler Automobile, Ford, GM, Honda, Hyundai, Infiniti, Kia, Lexus, Nissan, Subaru, Toyota and Volkswagen.

The AutoComp Elite™ brake lathe features patent pending automatic compensation technology. The system directly determines the position of the internal plates to maximize speed and accuracy without operator intervention. The result is the fastest, highest quality brake job possible. The new 7" touchscreen provides a user-friendly interface that allows technicians to quickly look up required adaptors, operate the lathe including changing cutting direction and speed, and view instructional videos. AutoComp Elite™ also includes patented Anti-Chatter Technology (ACT) which eliminates the buildup of vibration (chatter) that can occur when machining rotors at a fixed speed.

Hunter Product Manager, Greg Meyer noted, "The speed and ease of resurfacing rotors with the AutoComp Elite™ will allow service facilities to provide the highest quality brake service to their customers."

Hunter Engineering Company® is the global leader in alignment systems, wheel and tire service, brake service and inspection lane equipment. Hunter® equipment is approved and used by vehicle manufacturers, automobile and truck dealers, tire dealers and service facilities around the world. ■

JUDGES COMMENTS

"The built in touch screen for looking up adaptors and training is a nice touch."

"Having a database of which adaptors to use is helpful."

"The two most time consuming parts of on car service are finding the correct adapter and doing the run out. This helps with both."



www.hunter.com

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You can service brakes faster

AutoComp Elite:

- ✓ Automatic compensation in under 12 seconds
- ✓ Prevents vibration buildup
- ✓ Touchscreen interface for adaptor and vehicle spec lookup

HUNTER
Engineering Company

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on VehicleServicePros.com

Do Locking Lug Nuts Drive You Nuts?

OEMTOOLS™ 24447 Locking Lug Master Key Set

Tired of looking for misplaced lug nut keys, trying to remove lug nuts when keys are lost or damaged, and risking damage to the wheels in the process? Stop wasting time and money!

You can easily remove most aftermarket locking lug nuts with the OEMTOOLS™ Locking Lug Master Key Set. The keys have thin socket walls and are extra-long to keep your wrench away from the wheel, preventing nicks and scratches. They are made of chrome vanadium steel for strength and durability, with a black oxide finish for added longevity.

A double hex-head design fits 13/16" and 7/8" sockets, as well as most lug wrenches.

The set of 16 keys comes in a sturdy blow-mold case for safe keeping and secure transport, and it includes a useful chart (shown below) indicating the proper key for each make and model.

Save time, increase efficiency, and improve your bottom line. ■



oem-tools.com | 866-458-2472

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We Are Used Here



24449



Lip on Barrel Provides a Proper
Angle for Correct Bead Seating



Operates on Standard Shop
Air with 150 Max PSI

Get the Seat, Finish the Job

The OEMTOOLS™ 5 Gallon Tire Bead Seater is a simple and reliable way to seat even difficult beads on just about any tire (from small 4" to large 24 ½").

OEM TOOLS™

Innovative Tools. Better Value. Quality Results.

Find our tire bead seater at oem-tools.com/24449

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Monster Storage for Every Technician



Build your Own Box: 72" Tool Box

- A. Side Locker: MST192503SLBKGN
- B. Top Chest: MST722512CHBKGN
- C. Roller Cabinet: MST722517RCBKGN
- D. Side Box: MST192506SBBKGN

Also Available, not pictured on left:

Swap Top Chest for Hutch: MST722501HCBKGN

- Full-extension ball bearing drawer slides load rated 150 – 300* lbs per drawer (*Drawers with double sets of glides)
- Patented Quick Release™ self-latching drawers
- PVC foam drawer liners are included to protect your drawers
- Covered by a 5-year warranty
- Also available in Matte Black



Newest to the Monster Tool Storage Line up is the 41" Box:

Top Chest: MST412508CHBKGN

Roller Cabinet: MST412511RCBKGN-150

- Heavy duty industrial strength 12 gauge steel frame construction
- Patented Quick Release self-latching drawer pulls
- Full-extension ball bearing slides on drawers are loaded rated 150 lbs per set
- 2 extra-long drawers with added support bar keep your drawers from sagging
- Also available in Matte Black



monster-tools.com

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Monster Shop Carts

Monster Shop Carts - Slide top, Flip Top, Big Storage, At the Fender!

MST3304X Series – 4 Drawer Flip Top Cart with XL Storage on top; comes in Green, Orange, Gray & Textured Gray

MST3507X Series – 7 Drawer Flip Top Cart; comes in Matte Black, Green, Gray

MST3605S Series – 5 Drawer Slide Top Cart; comes in Matte Black, Green, Gray, Orange



MST3605SG



MST3304X0RNG

Monster designs all of its products with the technician in mind. Our tool storage products are built tough with heavy duty gauge steel, ball bearing drawers able to withstand a heavy load of tools, security with locking drawers and safety with self-latching drawers. Not to mention our dope designs. Who doesn't want a screaming skull on their box to intimidate the other techs. Monster tool storage built Scary Good!

For more information and to purchase, contact your local mobile tool dealer and get yourself one!



TOOL STORAGE MADE FOR YOU

NEW 72" - TOP CHEST - SIDE BOX
- ROLLER CABINET - SIDE LOCKER



MST722517RCMBBK
12 Drawer
Top Chest*

*Also available in
Black/Green.
Photo shows fully
assembled version.

MST192503SLMBBK
Side Locker*

MST192506SBMBBK
Side Box*

“ Monster tool boxes are designed for guys like us. Heavy duty quality, dope designs & these Monsters can hold all size tools! ”

- Willie B. stars in Two Guys Garage on Velocity, is the creator and host of Grudge Race on NBC Sports and is involved in Colorado Street Outlaws.

MST722512CHMBBK
17 Drawer
Roller Cabinet*

NEW 41" TOOLBOX

Black & Green 41" Tool Box

MST412508CHBKGN - 8 Drawer Top Chest

MST412511RCBKGN-150 - 11 Drawer Roller Cabinet

Also available in matte black



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“e-inquiry” on VehicleServicePros.com

Monster carries a full line of Tool Storage Solutions.
Learn more at www.monster-tools.com

ATEQ's TPMS Tool Offers Future-Proof Technology

For shops, it is important to gain the customer's trust. Shops rely on repeat business and word-of-mouth to build their business reputation, and increase their bottom line. Tool companies who have direct communication with OEMs allow shops to securely service vehicles with OE standards.

ATEQ TPMS tools has an innovative line of TPMS tool solutions with speed, accuracy, and are up to date with vehicle and sensor coverage. With the new patented Sync-ID technology built in the VT56, users can perform OBD relearns on Asian, Domestic and European vehicles with OE-compliant standards. Simply update your VT56 to receive this new technology and coverage. ATEQ's software updates and improvements make their TPMS tools more valuable for years to come.

ATEQ is proud to partner with the most reputable and quality TPMS sensor companies to work with their TPMS tools. Most shops

carry more than one aftermarket TPMS sensor brand to service with any vehicle that comes in the shop. ATEQ TPMS Tools can read 100% of OE and Aftermarket sensors, and can program more sensor brands than any TPMS tool on the market. ATEQ TPMS Tools and our sensor partners have the technology that allows you to get TPMS service done right the first time, every time. ■

Visit ateqvt56.com to learn more about VT56 TPMS Tool technology solutions.



TPMS Solutions
We turn this  OFF!

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FUTURE-PROOF TPMS TOOLS

“ I sell more TPMS and tire services than ever before with the ATEQ VT56 and tire tread depth gauge combo.

Because of the tool's OE-compliant standards, and vehicle and sensor coverage, I can work on any vehicle that comes into my shop, making their tools the most trusted and reliable in the industry. ”

BUY IT NOW

ateqvt56.com



VISIT US IN VEGAS!

SEMA booth 40217 - AAPEX booth 1068



Jeff Buckley
Owner of My Father's Shop - Texas

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CUT YOUR BRAKES DOWN TO SIZE (TO COIN A PHRASE)



**BE SURE TO WATCH
"THE NICKEL TEST"**

Circle 177 on card, or enter at "e-inquiry"
on VehicleServicePros.com



Model RL-8500
MSRP \$5,545

The RL-8500 by Ranger Products was made to offer techs faster rotor and drum resurfacing than any other brake lathe. With infinitely adjustable feed rates, operators can easily modify the speed of each cut with the turn of a dial. Get the precision finish you need, whether it's an initial rough cut or a single-pass micro-finish. Includes built-in, super-bright LED lamps, a standard heavy-duty bench and optional 32-pc. truck adapter set. There's simply no job too big for Ranger's RL-8500 brake lathe. **Call toll-free 1-800-253-2363 to order!**



Fully equipped tool package comes standard



1-800-253-2363 • bendpak.com/brakes

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R Ranger

Creating a Safer Workplace One Lift at a Time



Model Shown:
XPR-10AS

FREE Workplace Safety Poster!

Receive this awesome Automotive Lift Safety Tips Poster for FREE* when you visit bendpak.com/ALIposter. This informative, super-sized poster is chock-full of important safety tips developed by the Automotive Lift Institute, the authority on car lift safety and testing in North America.

Always stay in compliance with federal and state labor law posting requirements, and keep your company and workers safe.

LOOK FOR THE GOLD LABEL

Many BendPak lifts, including the XPR-10 series, are third-party tested and ALI certified, so you know you can trust the quality. When you think of lifting and car lift safety, think BendPak.

Visit bendpak.com/ALIposter for your FREE** Safety Poster.

*One poster per order, name and address. Poster is for promotional purposes only and may not be resold.
**Free Shipping to the 48 contiguous states. Shipping & handling fee on shipments to Hawaii and Alaska.



Actual size 30" x 45"

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OCTOBER 30 - NOVEMBER 2, 2018 • LAS VEGAS, NEVADA



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Blown Head Gaskets Don't Have to Blow Budgets

Blowing a head gasket, commonly diagnosed by leaking coolant, engine overheating, white-colored smoke blowing from the exhaust and a depleted coolant level with no trace of leakage, can be a big concern for vehicle owners who aren't looking to drop \$1,500 to \$3,000 on repairs. Especially if a car is an older model, which tends to experience more head gasket issues than a newer model.

The head gasket plays a crucial role in engine performance though, so issues do need to be addressed before engine damage occurs. If a car is able to run for 20 minutes without overheating, though still experiences some of the above-mentioned issues, it's likely there's a medium-grade head gasket issue.

Here's the good news: This issue can be treated by a do-it-yourselfer using Bar's Leaks Head Gasket Fix (p/n 1111) for around \$30. That's a far cry from the thousands it may cost at the repair shop.

The Head Gasket Fix formula contains a combination of antifreeze-compatible sodium silicate sealing liquid and various

size gasket-sealing particles that penetrate gaps and cracks and harden to permanently stop leaks. The product is easy to use - simply add it into the radiator on top of the existing coolant. Most four-cylinder vehicles will benefit from a half-bottle, while six-, eight- and 10-cylinder vehicles require the full bottle. It's compatible with all gasoline and diesel engines, and works on aluminum and cast iron heads and blocks.

Like all Bar's Leaks products, Bar's Leaks Head Gasket Fix is made in the U.S.A. ■



P.O. Box 187
Holly, MI 48442
1-800-345-6572

barsleaks.com

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CVT Transmission Fix

The most advanced Continuously Variable Transmission (CVT) fix you can buy. Engineered to stop slips, sluggishness, and hesitation - all while safely and quickly sealing any CVT leaks. After over a year in development, we're proud to introduce the finest CVT repair formula on the market, bar none.

Bar's Leaks CVT Transmission Fix starts working the minute you install and start driving the vehicle.



Part# 1414

www.barsleaks.com

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ACDelco New Product Release 2018

The Most Powerful 12V Brushless Ratchet Wrench

A perfect balance of precision, power and handling. The newly designed Li-ion 12V 1/4" | 3/8" | 1/2" brushless ratchet wrench series by ACDelco sets new standard for design and engineering of brushless motor tools.

The highest foot-pound torque output was achieved by precise distribution of motor power to gear ratio to create a harmonic balance of lever, allowing the ratchet wrench to be used in tight space environment, where hand torquing is limited. The standard features of this new brushless ratchet wrench series include forward/reverse lever, full metal gearbox housing, switching variable speed, a built-in super bright LED light, 12V Li-ion battery pack and a charger.

The new series introduces three different drive head sizes, 1/4" square at 45 ft-lbs., 3/8" square at 65 ft-lbs. and 1/2" square at 70 ft-lbs. ■

For more information about the new ACDelco brushless ratchet wrenches, please call your local mobile tools and equipment distributors or contact ACDelco Tools at 1-877-MY-D-TOOL (1-877-693-8665) or email to customer.service@ACDelco-Tools.com. ACDelco trademarks are used under license to Mobiletron Electronics Co., Ltd. Proudly distributed by DUROFIX, Inc. All Rights Reserved. 2018



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HEAVY DUTY **NEW!**

BLDC MOTOR **BRUSHLESS**

LI-ION 12V RATCHET WRENCH

METAL GEARBOX, SLIM BODY DESIGN

COMPACT HEAD

BUILT-IN SUPER BRIGHT LED LIGHT

AVAILABLE IN

- MAX. TORQUE 45 ft-lbs 1/4" SQUARE
- MAX. TORQUE 65 ft-lbs 3/8" SQUARE
- MAX. TORQUE 70 ft-lbs 1/2" SQUARE

PROUDLY MADE IN TAIWAN

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AVAILABLE SEPTEMBER 2018

ALSO AVAILABLE IN **COMBO TOOL KIT**

FOR MORE DETAILS, PLEASE CONTACT YOUR LOCAL MOBILE TOOL DISTRIBUTORS TODAY!

ACCEPTING PRE-ORDERS NOW!

70 FT-LBS MAXIMUM TORQUE (1/2" SQUARE)

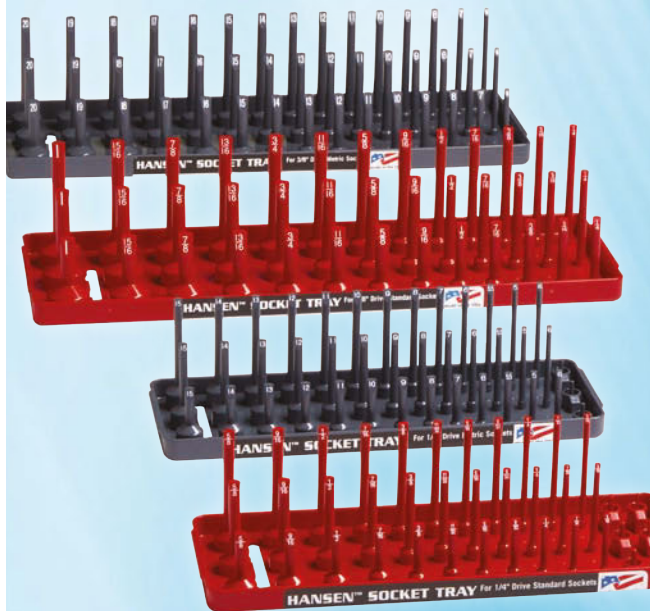
INDUSTRIAL GRADE ERGONOMIC SOFT GRIP FOR MAX. COMFORT, CONTROL & DURABILITY

G12 SERIES YOUR COMPLETE TOOL KIT

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NEW 3-ROW SOCKET TRAYS

The ORIGINAL Hansen Socket Tray



100% made in the USA and backed with a lifetime guarantee

Hansen has the way to straighten out toolbox clutter and chaos. Hansen 3-row socket trays are available in 3/8" and 1/4" Drive SAE and Metric to hold regular, semi-deep and deep sockets all on one tray. SAE trays are red, Metric trays are gray.



877-793-5213 • hansenglobalinc.com

Circle 184 on card, or enter at "e-inquiry" on VehicleServicePros.com

The #1 Requested Socket Tray in the Industry for Over 20 Years!

Now Available In Four Colors- including Orange & Green!

Since 1995, Hansen socket trays have been providing easy access and organization to toolboxes everywhere. Originally offered in two colors: Red (standard SAE) and Gray (metric), the company is excited to now also offer two new colors: orange and green as well as a 3 row option for customers.

According to Julie Thielbar, Executive Vice President of Hansen Global, Inc., "our 2 row tray has been the # 1 requested socket organizer in the industry for more than 20 years. The tray's popularity along with customer requests for additional colors, lead to our decision to expand our color offerings and also offer a 3-row tray." Each tray is still 100% made in the USA and comes with a LIFETIME guarantee. "We're really proud of that fact," said Thielbar.



Like Hansen's original trays, the new orange and green sets, as well as the 3-row trays, are constructed of heavy duty ABS plastic which is designed to resist gas, oil and the many other chemicals commonly found in and around auto repair shops. This resistance to chemicals not only adds to the product's longevity, but to the life of your tools as well. Each post on the tray is reinforced to hold sockets in place and resist breakage, and has an attractive pad-printed socket size listed on it for easy identification.

Sold individually, or in a 6 piece set, Hansen Socket trays hold a variety of sockets ranging in size from 1/4" - 1" or 6mm- 20mm and are available in shallow, deep and semi-deep wells. For more detailed information or to order your set, please see our website at www.hansenglobalinc.com, or call 877-793-5213. ■



hansenglobalinc.com

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CALIBRATION

MODULE IDENTIFICATION

Icon shows during AutoSCAN to pinpoint modules requiring ADAS calibration procedures.

AUTEL MS906TS PRE-SCAN & POST-SCAN

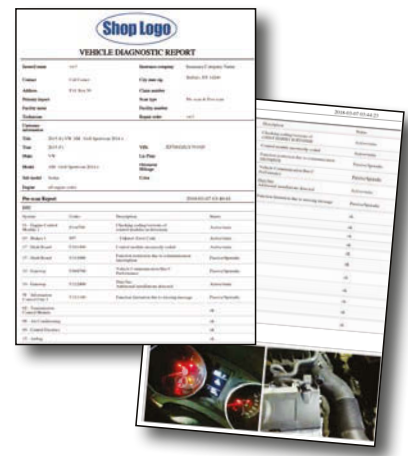
Autel's new Pre-SCAN / Post-SCAN report feature was recently added to all MaxiSYS MS906TS tablet tools. Wirelessly scan all modules in all vehicles for DTCs to more accurately assess collision damage and ensure all systems affected by the collision have been repaired. Now this collision-repair ready software update easily creates advanced repair reports that can be repair shop branded for a more professional insurance carrier submission. Attach image collision evidence to the vehicle report as well as DTC data evidence from the vehicle system, then email or print reports for faster insurance carrier approval and easier shop project management, all from the MS906TS.

Shop owners know that scan tools don't fix vehicles, only smart technicians do. Now scan tools with smarter software will organize the vehicle diagnostic data efficiently and help your team create a properly detailed repair plan to keep your customers safe.

To setup the Autel Android based touchscreen tablet, just plug the MS906TS wireless VCI into the vehicle OBDII port. Ensure the bluetooth VCI is paired to the tablet and the AutoSCAN function scans all available modules for faults. This DTC information populates the Pre-SCAN and Post-SCAN reports so our technicians can easily review and identify the problem systems then discuss issues with the repair writer. They can also drop the document into an estimating file to show they've anticipated the repair.

Autel thanks our distributors and users for their support. We are currently expanding our video tutorial library for visual tool support. You can find us on Youtube @AutelTools.

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Fast & Easy Reports

- Scan More Vehicles & Get More Profit Out of Every Estimate
- Shop-Branded Reports Include Logo & Shop Info
- Attach Repair Photos Directly from Tablet Camera
- Wirelessly Print & Email Reports with the MS906TS to Submit for Insurance Carrier Approval



Save Time in the Shop with Induction Heat

The INDUCTOR® induction heating tool from Induction Innovations Inc., uses flameless Invisible Heat® to release ferrous and some non-ferrous metals from corrosion and thread lock compounds without the danger of an open flame.

We asked Alicia Hawkins, marketing manager for Induction Innovations, Inc., to tell us more about how induction heat saves valuable time on repairs in the workshop and to summarize the tool options available for technicians.

“Induction heat almost eliminates the use of oxy-acetylene in the workshop. It’s safer to use, more efficient and works a lot faster too. Our INDUCTOR® tools come with flexible, pre-formed coils, which fit around the part, without touching it and localize the heat solely on the part and not the surrounding area.”

Alicia adds, “Induction heat basically takes away the hassle of automotive repairs, which ultimately helps make workshops more efficient and more profitable. The key time saving benefits of induction heat are:

- It works up to 90% faster than traditional flame heating – a ¾” nut is heated red hot in seconds.
- Because the heat is focused solely on the part, it

eliminates costly and time-consuming repairs to the surrounding area.

- The localized heat also means flammable parts do not need to be covered or removed first.
- The tools are quick to set up and start heating up the parts immediately.



To find out more

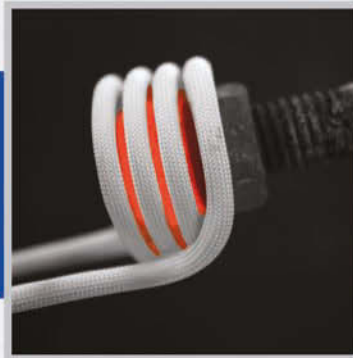
To order, or to find out more, contact your local tool distributor or Induction Innovations at 877-688-9633. ■



theinductor.com

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Toss Your Torch



Switch to Induction Heat

Mini-Ductor® Venom®

The Mini-Ductor Venom uses Invisible Heat® to release metal from corrosion and thread lock compounds without the dangers of open flame and up to 90% faster - ¾” nuts are turned red hot in seconds.

Applications:

- > Seatbelt Bolts
- > Suspension
- > Fuel Tank Straps
- > O2 Sensors
- > Brakes
- > Inline Connectors



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KNIPEX Tools Introduces Series of Precision Circlip Pliers



KNIPEX Tools introduced its series of Precision Circlip Pliers with an overstretching limiter for all snap rings with a diameter of 1/8" to 3 15/16". The series includes internal circlips for bore holes and external circlips for shafts.

Ideal for series production applications, users only need to set the diameter once, making installation both simple and reliable without the risk of stretching out snap rings. Conventional circlip pliers tend to distort circlips and increase the chance of the circlip flying off, but the durable precision tips of the Precision Circlip Pliers have a large contact face for a more secure grip.

Both series of Precision Circlip Pliers feature an overstretching limiter with an adjustable screw stop to prevent overexpansion of circlips and a bolted joint for precision operation. The pliers' spring steel tips are compressed and form-fitted, giving users up to 10 times longer service life compared to turned tip pliers. The spring steel tips are inserted with a tight fit through compression and are 30 percent more stable than conventional pliers.

The external Precision Circlip Pliers have a spring inside the joint, which prevents the spring from getting dirty or lost. Both series of pliers are forged out of German chrome vanadium electric steel and feature straight or 90-degree tips and non-slip plastic coated handles. ■

knipec-tools.com

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WE TOOK A NEW ANGLE ON THE PLIERS WRENCH

Part Number 86 43 250 US

KNIPEX – Tools Designed With Your Hand in Mind

Now, a new angle on the original KNIPEX Angled Pliers. 15° angled handles allow for better accessibility and finger and knuckle space!

Like the original, parallel jaws evenly distribute force to the workpiece at 10x your hand strength! Reliable and precise adjustments by the touch of a button and the smooth jaws will not round off nuts and bolts or mar surfaces. Reliable hinge bolt catching avoids unintentional shifting. Variable inch and metric size adjustments up to 1-3/4" (46mm).

Don't get bent out of shape when faced with tight fits—get the Angled Pliers Wrench with the bent handles.

See a video of this tool: <https://goo.gl/ZaTSVs>



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KNIPEX Quality – Made in Germany

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H&S Autoshot Introduces 200 Amp Compact AC/DC Pulse TIG Welding System

H&S Autoshot offers the professional automotive fabricator a versatile system for making intricate TIG welds on thin-walled tube to standard plate materials including mild carbon, chrome moly and stainless steel as well as aluminum and titanium alloys.

This high-powered inverter offers dual-voltage input and the highest duty-cycle performance. Premium operator features include digital control panel with LED graphic panel parameter displays, HF or lift-arc ignition, triangle, sine or square AC wave forms, 2T, repeat or 4T trigger, pre and post gas, ramp & slope, peak, base, width & Hz pulse. AC output balance & frequency control and 10 job memory.

H&S Autoshot offers the complete packaged system with SR17 torch, 200A electrode holder, 250A welding clamp, gas regulator, foot pedal, 115V adaptor and AK-2 kit to address the needs of the professional body man. ■



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The Performance Leader in Automotive Welding

HSM200 Synergic Multimig Welder offers 200 amps of power for MIG, TIG, & Stick applications with dual voltage (115/230) input, MIG gun, TIG torch, electrode holder, earth clamp, foot pedal gas regulator, TIG kit and wire.

H&S Autoshot's CSA/US high duty cycle inverter machines offer the professional bodyman LCD and touchpad select premium features such as frequency, synergic, pulse, balance, slope and wave form to assure high performance in all welding and cutting applications.



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Lights! Camera! Ullman!

Known for decades for many products beyond its mirrors - Ullman Devices is now going digital! As a sneak peek into the myriad of new products on the horizon - Ullman will soon be unveiling its DM-1 Digital Mirror.

Mounted to an extending antenna, this hi-res camera is capable of taking both stills and video - all driven by an Ullman WiFi direct app that sends signal to your mobile phone or device! With a rechargeable battery and dual LEDs to illuminate dark places, one no longer needs a direct line-of-sight like you would with a traditional mirror. Increase efficiency, increase profitability and promote safety by being able to quickly locate dropped items, or even send pictures and videos to underwriters or customers of needed repairs! Available for sale in the coming months, this item will be one of many innovations Ullman will be launching into the market along with its new brand identity! Look for it at your preferred supplier or on the trucks this fall!

ullman-devices.com

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MAGNETIC RAILS

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855-AH Texas Twister™ Air Hammer

First new air hammer since the invention of the air hammer. Now you can pound or pull - a double duty air hammer. Use as a conventional air hammer to pound work areas with powerful 2500 blows per minute.

Convert to a pneumatic slide hammer by inserting the air hammer piston lock into quick release chuck at front of gun. The forward kinetic energy of gun is blocked by the piston air lock cylinder creating equal kinetic energy from back of gun.

Thread your choice of any 855A Texas Twister™ Air Hammer Pulling Kit accessory into rear of gun. Turn gun around in your hand so rear of gun is facing forward. You now have a pneumatic puller. Hypersonic vibration/pulling energy will free the most frozen fasteners.

Many applications for not only automotive but marine, aircraft, farm implement equipment repair, oil field, mechanical construction, heavy duty

equipment and manufacturing industries. Unlimited applications.

Comes packaged in plastic blow molded storage carrying case. Included quick connect four bearing chuck, air piston locking cylinder and adjustable brass air flow regulator.

If it is joined together, 855-AH Texas Twister Air hammer can take it apart. No more cumbersome heavy slide hammers. Order one today from your mobile tool distributor. ■



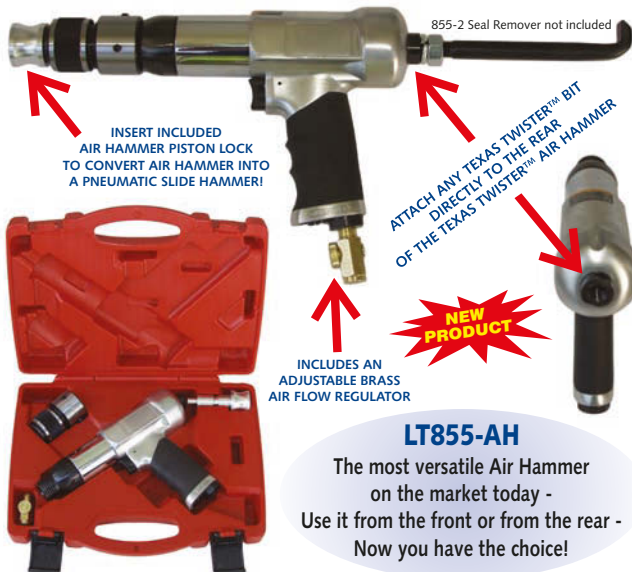
See the Texas Twister work on YouTube.
Patent 7,036,211

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DOUBLE DUTY AIR HAMMER

LT855-AH TEXAS TWISTER™ AIR HAMMER

- First new air hammer since the invention of the air hammer
- Use as a hammer or use as a pneumatic puller
- Works great with LT855A Texas Twister™ Air Hammer Pulling Kit
- Twice the directional power, twice the gun
- Just install the included air hammer piston lock into quick release chuck in front of gun to create pulling force from rear of gun
- Patent #7,036,211



NEW AND IMPROVED TEXAS TWISTER™

LT855A TEXAS TWISTER™ AIR HAMMER PULLING KIT

Use your air hammer to pull -

- Seals
- Diesel injectors
- Axles
- Bearings
- Harmonic balancers
- Pulleys
- Axle pinion flanges
- Old distributors
- Connect to your specialty pullers
- **NO MORE SLIDE HAMMERS**
- Patent #7,036,211



See it work on YouTube



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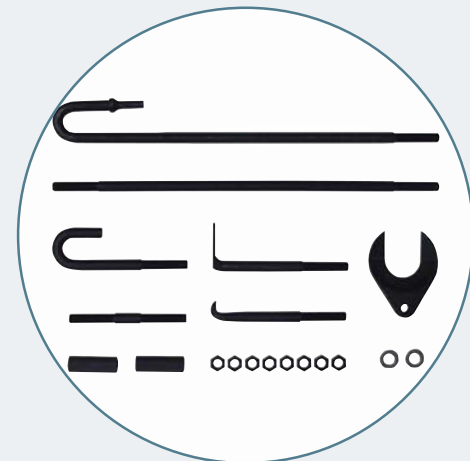
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Lock Technology Texas Twister

The reviewer appreciates that this tool makes disassembly easier.

by *Stefanie Von Rueden, Assistant Editor*



PRODUCT DESCRIPTION:

The Lock Technology Texas Twister, No. LT855, allows technicians to convert an air hammer into a pneumatic slide hammer. Its curved air bit snaps into the collet of the air hammer. Then, technicians can reverse the air hammer handle in their hands and use their thumb to push the trigger, generating pulling power from the air hammer. The tool offers one-hand operation, and allows controlled part removal. The axle crow foot and pry bar sealer puller can be used to remove stubborn axles and inner axle seals, while the flat blade puller can be used for removing frozen distributors, pulley wheels and speed sensors without damaging them. The J-shaped hammer bit allows users to hammer from the back side, and the double-ended female 1/2-20 connector bar joins the Texas Twister to pullers. The 20" extender bar lengthens the tool.

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Any tool that helps save a technician's time may be worth keeping around the shop. Eric Moore of DeMary Truck in Columbus, Ohio, appreciated that the Texas Twister made disassembly easier.

"Being able to use an efficient tool in the toolbox for tasks that would usually be labor intensive is almost a dream come true," Moore says.

Moore used the Texas Twister for a variety of repairs, such as removing an axle on a UD 2600 that was sticking, and removing the parking brake drum on a Mitsubishi Fuso FM series.

"One of our techs used the Texas Twister to remove an inner axle bearing and race," Moore adds. "He said it was

much easier than the slide hammer, and being able to use the leg adapter and slide it behind the race made it fairly painless, instead of cutting the race apart, which throws a lot of sparks and certainly isn't as efficient."

"Hands down, the best feature is the Texas Twister's compatibility with standard slide hammer adapters and accessories," Moore says. "We were able to use a hub adapter to pull an axle that was sticking."

The Texas Twister came with all of the pieces laid out in a molded tray with a cloth bag. The setup involved assembling the proper adapters and extensions and screwing them together, Moore says. The tool inserts into any standard air hammer.

Moore notes that while there were no

instructions in the package, it wasn't hard to figure out how things worked.

Moore has used several styles of slide hammers in the past, and has even made his own a time or two, but found that the Texas Twister was able to make difficult disassembly easier.

"We only had a few instances where we [used] the Texas Twister," Moore says. "The times we did, however, it was amazing just how well it works, and the ease with which it helps disassembly."

While Moore may not have needed the Texas Twister to complete every job, he appreciated its time savings whenever he used it.

"[This is] absolutely a fantastic tool that I certainly believe we will continue to find new uses for," Moore concludes. **PTEN**

Dickies 874 FLEX, Multi-Pocket Performance Shop Pant and Industrial WorkTech Short Sleeve Ventilated Performance Shirt

These work pants and shirt kept the reviewer comfortable and prevented overheating.

by Vesna Brajkovic, Assistant Editor



When working in a busy shop environment, personal comfort may sometimes take the ‘back seat,’ so comfortable apparel can be an important factor in increasing technician efficiency.

Eric Moore of DeMary Truck in Columbus, Ohio, says his Dickies apparel allows him to have full mobility, keep from overheating and, most importantly, they’re “easy to wear.” Moore says his Dickies work clothes have already softened after a few washes and he hasn’t found the need to iron them.

Moore wore two different styles of Dickies work pants, the 874 FLEX and the Multi-Pocket Performance Shop Pant, as well as the Industrial WorkTech Short Sleeve Ventilated Performance shirt.

“I really like these articles [of clothing], and I will continue to wear them for some time to come,” Moore says.

When it comes to the work pants, Moore says both styles were comfortable to wear. They “breathe well, fit and move with [him] easily.” Both pants also feature deep pockets.

Moore describes the 874 FLEX pants as more of an “executive style” compared to the Multi-Pocket Performance Shop Pant, which are a “cargo style.”

The 874 FLEX offers a flat hook-style fastener, and come in multiple colors. Moore says these pants can easily transition to daytime wear outside of the shop.

“I actually wore the [874 FLEX] several times out in public and liked the way they blended seamlessly when paired with a pullover shirt, or just a tee shirt,” Moore says.

The “cargo style” Multi-Pocket Performance Shop Pant was designed specifically for automotive technicians with features like a reinforced knee and a rubber coated button, which Moore says is nice for preventing scratches on vehicles.

“The navy cargo pants hide a lot of the evidence that they are work pants, not showing dirt and grime as obviously as jeans might,” Moore says.

While the overall fit of both styles of work pants were comfortable, Moore notes that throughout the day the waistband seemed to “roll just a bit at the closure.” He wore a belt with both styles.

In addition to the work pants, Moore also wore the Industrial WorkTech Short Sleeve Ventilated Performance Shirt, No. LS516. This shirt, which comes in black, navy blue and light blue, features pockets on each breast and a collar. Moore says the shirt doesn’t lose shape even after several washes.

“The shirts were very much easy to wear, they have ventilated panels under the arms and on the yoke between the shoulders that keeps them comfortable,” Moore says. “Even wearing an undershirt, I didn’t feel overheated like with most uniform-style shirts I’ve worn.” **PTEN**

PRODUCT DESCRIPTION:

The Dickie’s Flex Work Pant, No. 874F, is made of a flex fabric designed for ease of movement, comfort and durability. The fabric is wrinkle resistant, is moisture wicking and has an “easy care stain release,” according to the company. This pant has a traditional fit in the seat and thigh.

The Dickies Multi-Pocket Performance Shop Pant, No. LP605, has strategically placed utility pockets designed to keep tools close at hand while the ergonomic waistband allows bending and stretching. This pant is available in black and dark navy.

The Dickies WorkTech Short Sleeve Premium Ventilated Performance Shirt, No. LS516, is specifically designed to withstand hot working conditions and deliver cooling comfort. Breathable mesh provides ventilation to cool the wearer and help prevent heat stress. The shirt is engineered with easy-care stain release technology and moisture wicking fabric to keep workers comfortable, and is available in black, dark navy and light blue.

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TEXA USA AXONE HD

For this reviewer, one tool fits all in his truck-heavy business.

by Sara Scullin, Editor

Andrew Simmerman is the owner of Andrew's Diesel and Automotive Repair in Spanish Fort, Alabama. At Simmerman's repair shop, trucks and heavy equipment are a common sight, so you could say having the right heavy duty diagnostic tool close at-hand is essential to business. The TEXA AXONE HD has been part of this technician's arsenal for years.

"I have seven total different scanners right now," Simmerman says. "The only time we use factory scanners anymore is when we have to program. [The AXONE] is 100 percent self-explanatory. It's touch and click."

Of all its features and capabilities, Simmerman most appreciates the AXONE's one-size-fits-all approach.

"It works excellent," says Simmerman. "It's so much easier because you have one tool to hook up all different truck types, instead of an International computer that works on International [trucks] and doesn't work on anything else. This goes in, you hit one button, it finds out what type of truck it is and what it needs to be scanning and goes into it."

He adds that the tool comes equipped with all the necessary cables, and hook-up is simple. "We got it out of the box, we turned it on and had to go online and register it, and it was ready to roll."

Technicians at Andrew's Diesel and Automotive Repair regularly use the tool to scan all medium and heavy duty



trucks, including Isuzu, Kenworth, International and Freightliner brands. The AXONE also comes in handy for motorhome work; the team used it to scan for a 'check engine' light, as well as brake and transmission concerns.

"[We use the AXONE for] off-road equipment, buses - you name it. It's an all-in-one," says Simmerman. "You can take just one tool to the job site."

Previously, Simmerman and his fellow technicians had used the AXONE when it hooked up to a laptop, but he now prefers the ease of a tablet. "The tablet version is ten times better," he says. "The tablet is more rugged."

He adds the touchscreen and wireless capabilities of the AXONE give him

PRODUCT DESCRIPTION:

The TEXA AXONE HD truck package incorporates light, medium and heavy duty truck diagnostics software with a proprietary display tablet, the AXONE Nemo. The AXONE Nemo was fully developed in-house according to military standards for ruggedness and water resistance. It runs a full open version of Windows 10 Pro as its operating system, allowing additional programs and services to be loaded thanks to magnetic expansion modules. The operating system is supported by an Intel Quad Core processor, 256 GB SSD hard drive, 8 GB of RAM and boasts two 5MP cameras, in a complete sealed rugged outer shell and topped off with a 12" Gorilla glass screen. The tool offers parameter resets, bi-directionals, wiring diagrams, technical data and more. Updates are optional with no skip penalties.

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and his technicians more freedom of movement in the shop, which is always a welcome feature. "You can walk around the truck without having to stand in one place," says Simmerman.

The AXONE also links wirelessly to the printer for quick report printing.

The Alabama shop owner says there isn't a feature he does not like on the AXONE. In addition to its convenient size and inclusive capabilities, Simmerman noted the company offers "extremely great customer support" for its products.

"They can remote in on the computer and take control - they will show you if you're doing something wrong, or if there's something wrong with the computer, they've fixed it within days," he says.

This heavy duty diagnostic tool is a shop fixture for this busy technician. **PTEN**

Autel Pre-SCAN and Post-SCAN Report Feature Software

Efficient repair plan estimates reviewed.

by Sara Scullin, Editor

Scott Grant is the President of ProTech, a Dallas-based company since 1995. Grant manages mobile auto repair technicians providing diagnostic solutions, OE-level module programming and ADAS calibration. Grant says his mobile fleet operates by “dispatching vans to repair locations prepared with OE scan tools, OE software laptops, as well as an aftermarket scan tool.” He says Autel scan tools are their “go-to” in his competitive business, as they offer wider coverage needed at diverse vehicle repair shops.

Within the past 10 years ProTech’s main focus has centered more on collision-related services. This is where Autel’s Pre-SCAN and Post-SCAN feature capabilities are particularly useful. “We offer these solutions to major body shop chains and it’s been highly successful,” says Grant. He notes the biggest benefit of the Autel tool and Pre-SCAN and Post-SCAN reporting feature, is the time savings component. “In my opinion, if you did a Pre-SCAN on every vehicle, it would assist in greater repair planning; you would know what components were damaged and needed to be replaced up front; no guesswork or backend repairs - dramatically cutting down on customer return issues.”

To setup the Autel Android-based touchscreen tablet, simply plug the MS906TS wireless VCI into the vehicle’s OBDII port. Ensure the bluetooth VCI is paired to the tablet and the AutoSCAN function scans all available modules for faults. This DTC information populates the Pre-SCAN and Post-SCAN reports technicians can easily review and iden-

tify the problem systems, then discuss issues with the repair writer. “They’ll email out a scan sheet to whoever is handling the claim to use in repair planning,” says Grant. They can also drop the document into an estimating file to show they’ve anticipated the repair.

One Pre-SCAN scenario looked at a front-end collision where there were multiple park assist sensors, or the radar cruise module in the center had been damaged. “We list those items out as damaged items in the collision. This helped the service writer get those components put onto his initial write,” says Grant.

In another instance, Grant says they had a right rear corner collision on a Toyota Sienna van. “If it wasn’t for a Pre-SCAN [conducted on the vehicle], the service writer wouldn’t have known the blind spot module had been damaged internally, because there was no visible damage,” he says.

Technicians at ProTech recently performed a Post-SCAN on a 2017 Yukon. The center did not notice the passenger side pretensioner had been deployed. “The vehicle’s indicator on the dash was not caught until we ran the Post-SCAN on the car. They had not set a delivery date on the vehicle yet; but using the Post-SCAN we were able to meet the delivery date and keep the customer happy,” says Grant.

He points out, “The majority of insurance carriers and repair facilities are more interested in the post scan side of things to make sure everything has been repaired



PRODUCT DESCRIPTION:

Autel’s Pre-SCAN / Post-SCAN report feature was recently added to all MaxiSYS MS906TS tablet tools. Wirelessly scan all modules in all vehicles for DTCs to more accurately assess collision damage and ensure all systems affected by the collision have been repaired. Now this collision-repair ready software update easily creates advanced repair reports that can be repair shop branded for a more professional insurance carrier submission, according to the company. Attach image collision evidence to the vehicle report, as well as DTC data evidence from the vehicle system, then email or print reports for faster insurance carrier approval and easier shop project management, all from the MS906TS.

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correctly after the fact.”

From what he’s seen, Grant says the Autel scanner is fairly easy to use if a technician possesses good mechanical and automotive sense. “You’re walking through questions the tool is asking you. As long as you’re putting a check in the right spot, it’s pretty straightforward,” he says. He adds it is very user-friendly, with solid back-end support and experienced Autel technician support to help troubleshoot and diagnose issues along the way. **PTEN**

CATEGORY SPOTLIGHT



TIRE AND
WHEEL
SERVICE



NO DAMAGE TO THREADS

The **Lang Tools Wheel Stud Installer and Rethreader Kit**, No. 802, works on major domestic and foreign vehicle platforms, including light trucks and SUVs. The installers assure correct installation of the studs by pulling the stud into the drive without damaging the threads, the company says. Existing studs can be repaired or cleaned with the rethreaders. The kit includes the following installers and rethreader die sizes: 1/2-20, M12x1.25, M12x1.5, M14x1.5, and M14x2.0. This product is made in the U.S.A.

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STORE AND ORGANIZE TPMS SERVICE KITS

Designed specifically for the storage and organization of TPMS service kits, valves and tools, the **JohnDow Dynamic TPMS Smart Cart**, No. DY-TPMS45, consists of 45 tip-out storage bins and nine hanging storage bins mounted on a heavy duty mobile cart. This 58” tall cart is a heavy duty steel design with a durable powder coat finish. The cart’s storage capacity can be expanded using a combination of nine individual components consisting of three flip out bins, three hanging bins and horizontal rails. Other features include 3” locking casters; a compact design measuring 38” wide by 23” deep by 58” high; tip-out bins made from tough ABS plastic; and a spill-proof design to keep drawers from popping open while moving.

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COVERS DOMESTIC, EUROPEAN AND ASIAN VEHICLES

The **ATEQ VT56 Comprehensive TPMS Service Tool** provides complete TPMS management with coverage for domestic, European and Asian vehicles. It has a VIN barcode scanner to select a vehicle’s make, model and year in seconds. The tool includes features such as built-in tool training, TPMS reset procedures, sensor part numbers, OBD-II locations and Wi-Fi connection to transfer job data to a PC.

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TEST TPMS SENSORS

The **NAPA Balkamp Diagnostic Tech 200 TPMS Activation Tool**, No. BK 921542, available from NAPA, allows users to test TPMS sensors and wirelessly send the data to a PC or Bluetooth printer. The tool features comprehensive TPMS coverage, wireless Bluetooth capability, a make-year-model menu, a lightweight ergonomic design, three-button key pad, rechargeable battery and a USB port.

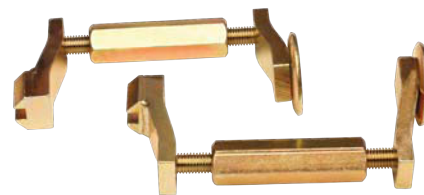
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DESIGNED FOR HEAVY USE SHOPS

The **Eagle Equipment EB-1070 Wheel Balancer with Hood** is designed for heavy use shops working with average tire rims of 10” to 28” and tire diameters up to 44”. This balancer features automatic measure and input, seven aluminum balancing modes, single button transition to MC mode, power saving mode and an LED illuminating lamp for improved viewing during operation. The balancer is designed to precisely stop the wheel at the position of imbalance.

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STOPS WHEEL FROM PULLING INWARDS

The **Mueller-Kueps Wheel Camber Adjuster**, No. 514 300/2, allows a single technician to complete wheel alignments. Users place one end of the adjuster on the chassis and the other on the interior rim of the car. When the user releases the camber, the tool stops the wheel from pulling inwards and holds until the job is finished, according to the company. To achieve a more precise adjustment, users can span the camber tool.

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BALANCES A VARIETY OF WHEELS

The **Cartek Bear 80-901L 3D Wheel Balancer** is designed to handle a variety of wheels with rim diameters from 10" to 28", tire diameters up to 35" and rim widths from 1.5" to 20". This balancer offers a 22" color monitor display with an on-screen menu the company says is intuitive and easy to navigate. Two electronic gauge arms help to achieve quick and accurate balancing by automatically entering diameter, distance and width. A guided adhesive weight placement function is designed to stop the wheel at the exact position of imbalance.

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DESIGNED TO PROVIDE WIRELESS EFFICIENCY

The **Chief C3060 Professional Wheel Aligner** is designed to provide wireless efficiency, with all the characteristic angles of both vehicle axles controlled by four measuring heads with eight CCD sensors and infra-red transmission. The wheeled control unit houses computer, printer and battery charger. There is an open cabinet to store clamps and accessories.

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FOR REMOVING GERMAN ROTATING RING LOCKING LUG NUTS

The **LTI Tools German Vehicle Rotating Ring Lug Nut Removal Kit**, No. LT4569, is designed to remove the rotating ring lug nut locks on Audi, BMW, Mercedes Benz, Porsche and Volkswagen. The kit includes a patent pending heat resistant silicone welding shield that protects the wheel from heat damage when MIG welding the rotating ring to the lug nut. Once the rotating ring is welded to the lug nut, users can remove the lug nut using the included twist socket. The kit also includes a lug nut removal twist socket. The LT4569A is a consumable item with factory defect warranty only. LT4569B has a lifetime warranty.

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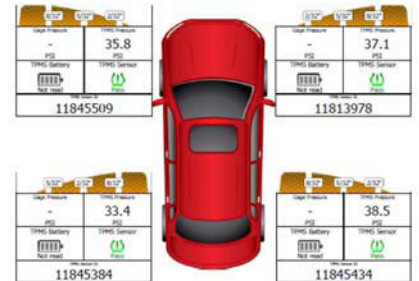
GUIDES USERS WITH ICON-BASED INTERFACE

The **Matco MAXTPMS Activation/Program Tool**, No. MDMAXTPMS, is a TPMS programming tool with built-in manual procedures. The tool features an easy-to-use icon-based interface with bright color display to guide users through replacing and servicing TPMS sensors. For multi-brand repair shops that require a mix of universal programmable and OE sensors, the MAXTPMS can activate and read OE TPMS sensors as well as program leading universal programmable aftermarket sensors. In seconds, the MAXTPMS displays all sensor data, including ID, tire pressure, tire temperature and battery status. The MAXTPMS is frequently updated with new vehicle and sensor coverage, and is compatible with existing Maximus scan tools.

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Customer: Registration: Vehicle: Infiniti G35 2004 - 2006
Date: 8/16/2017 1:53:00 PM Mileage:
Reference: 000012F Tire Type: Standard



OK	7/32" and up	Tire OK for use.
Replace Soon	3/32" to 6/32"	Tire is worn. Consider purchasing new tires.
Replace Today	2/32" and below	Tire is no longer safe. Tire must be replaced.

OFFERS REMOTE TOOL SETUP

The **Bartec TPMS Desktop Version 4.0** offers remote tool setup and an audit report that features critical information a customer needs in order to make a decision. This allows them to see remaining tread life, tread wear, tire pressure and the state of their TPMS sensors in a single document. TPMS Desktop 4.0 also allows the linking of service documents, which allows information from different devices to be seamlessly linked together into a single customer report.

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OFFERS SENSOR PROGRAMMING, DIAGNOSTIC FEATURES

The **ITM sensorAID TPMS Tool Software Update v.3.72** offers sensor programming and diagnostic features. The update includes more 2017 model year vehicle application coverage, expanded Asian make cover and expanded European market coverage. ITM TPMS also offers a 24/7 TPMS technical support team. The improved TPMS offers 95 percent coverage, OBD-II relearn and lifetime free updates and tools.

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AUTOMATIC CAMERA POSITIONING

The **Rotary R1080 Baysaver 3D Wheel Aligner** is designed to provide automatic camera positioning and target recognition. This aligner features patent-pending 3D targets with technology designed to eliminate the need for runout compensation. These aligners are lightweight and have no electronic components inside that need maintenance, according to the company. The R1080 comes with self-centering three-point quick-locking tire clamps, and is designed to work at any height.

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LIFTS UP TO 200 LBS

The **Branick Model 5300 Tire Spreader** locks in operating and stored positions, and can lift up to 200 lbs. The spreader features a foot operated lift and spread and zinc plated rollers for rotation. This unit can handle tires up to 24.5" bead diameter and 16" section height, including super singles. The LED light and 22" spread are designed to make inspection easy. The 5300 offers a 31" working height with attached tool tray and lift out repair debris tray. It has a 33" by 35" footprint with the lift stored.

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CONSTANTLY MONITORS ALIGNMENT

The **John Bean V2100 Wheel Alignment System** provides fast and accurate real-time measurements, according to the company. One of its offerings is the VIN scanner that allows users to have immediate access to vehicle history. With this optional feature, users can find the VIN number and start the alignment process automatically. The V2100 also features a user interface with graphic display. Video speed cameras constantly monitor the alignment and a compensation warning system detects common environmental conditions and vehicle problems that could result in maladjustment. Two additional patented features include the Vehicle Orientation Directional Indicator (VODI) that guides the technician through the measuring process and the EZ-TOE that turns the front wheel and helps access difficult adjustment points during the alignment while still displaying centered toe readings.

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DESIGNED TO BE EASY TO CONTROL AND MANEUVER

Mighty Seven's Air Tire Buffer, No. QT-113, offers a low 2,500 rpm and was designed to be easy to control and maneuver. The quick change chuck makes the QT-113 more efficient, according to the company. This tool includes a three-year limited warranty.

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REMOVES FRONT HUBS ON DODGE PICKUP TRUCKS

The **Cal-Van Tools Dodge Wheel and Hub Removal Adapter**, No. 90300, is designed to remove the front hubs found on 3/4-ton (2500 series) and 1-ton (3500 series) Dodge pickup trucks. This tool helps users cut the flat rate for changing out U-joints, front differential service, ball joints and any front hub service. According to the company, on average it takes 3.4 hours to do both sides using a sledge hammer, torch or heavy duty slide hammer, and with this tool, it takes about one hour to do both sides.

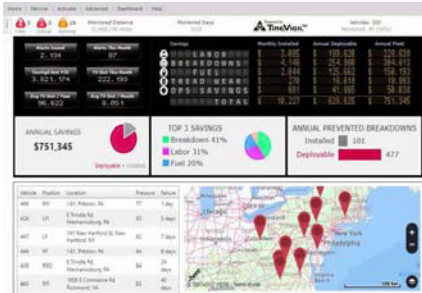
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SUPPLIES INFORMATION EVERY 4.5 SECONDS

The **Snap-on Tools Touch Screen Video Motorized Wheel Balancer**, No. EEWB334A, facilitates fast data entry on a shop-grade, navigation-friendly, touch screen monitor, the company says. The screen supplies information for a 4.5 second cycle time. The laser accurately pinpoints exact weight placement, and "split mode" allows weights to be hidden behind rim spokes. The SAPE arm speeds set-up time by automatically configuring the correct mode based on wheel placement without entering the wheel type, while a sonar sensor calculates rim width. A LED light brightens the inside of the wheel to aid visibility.

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PROVIDES A SNAPSHOT OF KEY TIRE COST METRICS

The **TireStamp Inc. TireVigil Savings Dashboard** provides commercial truck and bus fleets with the savings they achieve using TireVigil Cloud tire monitoring and management solution based on their tire performance data and costs. This dashboard complements the existing maintenance dashboard that visually summarizes a fleet's tire maintenance performance based on real-time metrics generated from data accumulated from each vehicle. The Savings Dashboard provides a snapshot of a fleet's key tire cost metrics, the annual and current month savings generated by vehicles equipped with the TireVigil Cloud solution and the projected savings attainable by deploying TireVigil throughout the entire fleet. Additional information provided includes areas where savings are being achieved, such as labor, breakdowns, fuel consumption and tread wear.

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MODERN, SOLID STEEL DESIGN

The **Martins Industries PCR/SUV Tire Display**, No. MFSUVD, features a modern design in solid steel and two acrylic side panels that can be customized with a company logo. The top header board can accommodate four spec sheets.

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FULLY AUTOMATIC DATA ENTRY

The **Hofmann Geodyna 8200 Wheel Balancer** is designed for shops that service both cars and light trucks. The 8200 offers fully automatic data entry via scanner and the patented smartSonar. Other features include a power clamp electromechanical clamping system, radial run-out, automatic spoke detection and touchscreen interface. The balancer is fully automatic.

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INDIRECT, MANUAL AND AUTO RELEARN

The **Monster TPMS Sensor and Activation Tool with OBD-II Module**, No. MSTTPMSOBD, includes the Monster TPMS Pro, an OBD-II module and softshell case. This TPMS tool is designed for sensor activation, programming and ECU reset. The tool offers 98.6 percent TPMS coverage and programs all leading aftermarket TPMS sensor brands, according to the company. The tool offers vehicle make, model and year lookup and relearn procedures, and provides indirect, manual and auto relearn procedure information.

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SEPARATES TIRES FROM RIMS

The **OTC Bead Breaking Tool Set**, No. 5726, is designed to break down automotive, motorcycle, ATV and small garden tractor tires. This tool helps technicians separate tires from their rims. The two-tool set includes a locking plier and pry tool. The locking plier features a wedged jaw that is forced into the tire bead when clamped on the wheel rim. The pry tool is then hooked with the plier jaw, acting as a second wedge to break the bead and separate the tire from the room. The 5726 is covered by OTC's lifetime warranty.



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ACCURACY WITHIN +/- 1.6 PERCENT

The **K Tool International (KTI) Tire Inflator Gauge**, No. KTI89005,

is designed for measuring, inflating and deflating vehicle tires with accuracy within +/- 1.6 percent. Made of aluminum die cast, the body is heavy duty. The gauge comes fitted with a 2-1/2" mechanical pressure gauge with protective shroud for monitoring tire pressure, 24" long flexible hose to attach to tire valves and a steel extension with grip. It has a built-in swivel and dual chuck for truck tires. The gauge is equipped with a 1/4" NPT inlet, has a maximum pressure of 230 psi, and is covered by a one-year repair or replace warranty.



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ICON-BASED INTERFACE

The **Hamaton H46 TPMS Programming Tool** features a

colored icon-based interface to help guide users through replacing and servicing TPMS sensors. The H46 displays all sensor data, including ID, tire pressure, tire temperature and battery status. With the addition of the optional OBD-II module, users can reset the ECU in less than two minutes, according to the company. The H46 is designed to support all known programmable TPMS sensors and is frequently updated with new features and up-to-date vehicle and sensor coverage.



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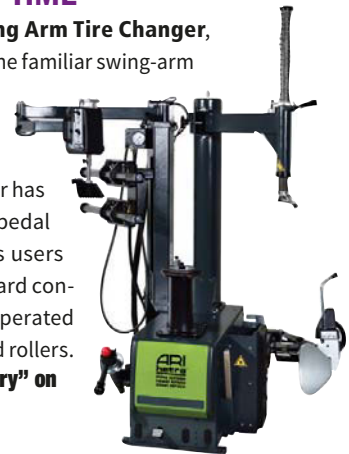
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HELPS REDUCE CLAMPING TIME

The **ARI-Hetra 32" Center-Post Swing Arm Tire Changer**, No. WS-18600, is designed to combine the familiar swing-arm

tire changer with the versatility of a center-post. This tire changer features a center locking system that helps reduce clamping time. This tire changer has a maximum tire diameter of 47". The pedal controlled two-speed rotation allows users to adjust torque as needed. The standard configuration includes an independently operated bead press device and dual-height bead rollers.

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FEATURES BUILT-IN VEHICLE SUPPORT

The **MAHLE Service Solutions ShopPRO CWL-10 10-Ton Commercial Wheel Lift** is designed to provide

access to major components on all types of vehicles. The CWL-10 is suited for shops with low ceiling heights and features a built-in vehicle support stand that allows complete open access under the vehicle. The portable design helps eliminate the need for a dedicated bay. The lift has a maximum lifting height of 24". A dual trigger control valve allows for synchronized raising and lowering of a vehicle.

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**COMPACT TO FIT
IN SMALL SPACES**

The **Coats RC-45 Rim Clamp Tire Changer** features a compact design and a chassis that fits easily into shops with limited space. The tire changer features a 1HP motor, manual swing arm, Duckhead mount/demount tool and has a clamping capacity up to 24”.

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STACKS UP TO EIGHT TIRES

The **OEMTOOLS Tire Transport Dolly with Extensions**, No. 24865, is designed for one-person transport of car, light truck and SUV tires and wheels. The dolly is outfitted with two swivel casters that allow users to maneuver tires and wheel assemblies throughout the garage. Two locking casters allow technicians to secure the dolly while stacking up to eight tires or five wheel assemblies. Four sturdy height extensions raise the working height to allow a more ergonomic posture while working with heavy tires.

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**AUTOMATICALLY MEASURES
TIRE TREAD DEPTH**

The **Hunter Quick Tread** inspection technology is designed to automatically measure tire tread depth and capture vehicle identification as users drive into the service lane. This console includes everything needed to run a fully-automatic inspection lane and can be connected to a network printer at the service desk to provide customers inspection result printouts. The system can also be integrated with multi-point inspection providers to supply digital inspection reports to customers.

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INCLUDES FREE LIFETIME UPDATES

The **Autel MaxiTPMS Premium Kit**, No. TS508, is packaged as a kit with eight Autel MX-Sensors to offer TPMS service repair. The TS508 offers a quick mode and an advanced mode for sensor programming. It is grease- and water-resistant and features a TFT color display, auto power-off for battery life conservation and strong plastic housing with a protective rubber boot. The TS508 includes one-year warranty and free lifetime updates.

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EASY-TO-USE INTERFACE

The **Cemb-USA C218 HD Truck Wheel Balancer** is designed for light duty, medium duty, commercial and heavy duty truck wheel applications. The C218 features an automatic 2D inner data arm to enter distance and diameter with direct weight placement measurement, a high-resolution TFT LCD monitor and an easy-to-use interface.

This balancer is steel and alloy wheel capable with a choice of clip-on, tape weight modes up to 30" rim diameter, 20" width and 550 lbs. The C218 offers 100 rpm passenger car and 70 rpm HD balancer speeds, with an average cycle time of 10 to 20 seconds. The unit requires compressed air and 110V, 50/60 Hz.

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Read the full article at:

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TOOL REVIEW



JOHNDOW INDUSTRIES TIRE TAXI

Rolling tires manually across the shop floor is fatiguing and causes unnecessary strain on technicians. Still, it can sometimes be the easiest way to get tires from Point A to Point B when a technician lacks designated equipment. Other times, technicians may try to use basic dollies which are usually not big enough to provide proper tire support.

Read the full review at:

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GUEST BLOG



LATEST WHEEL REFURBISHING PROCESSES MINIMIZE DOWNTIME

Given the competitive environment of today's commercial fleets,

every step a fleet manager takes to keep trucks looking good, running well and staying on the road has to be considered in terms of cost and benefit.

Read the full blog at:

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BIG-TIME BOXES

READERS OFFER A PROUD LOOK AT THEIR AWESOME TOOL STORAGE SYSTEMS.

It only gets bigger from here

A dedicated diagnostic cart and 11' setup is just the beginning.

by Vesna Brajkovic, Assistant Editor

Cody Gaddie has been a technician at Brakemax Car Care Center for 12 years, starting out as a C level technician before working his way up to his current position as lead drivability technician where he oversees 15 shop locations and 160 employees.

"I get a lot of work from our other locations, of vehicles other techs can't fix. [These] are some of my favorite vehicles to work on," Gaddie says. "It's the problem childs."

But while his jobs can be complicated, Gaddie says he likes to keep his tool organization simple.

His 11' 4" long, 7' 4" high, 29" deep Snap-on KRL Series 1023 Roll Cab toolbox with side locker, hutch and horizontal top locker, is sorted into categories using plier racks, socket holders and foam drawer inserts. Gaddie also labels all his tool cases for easy identification.

Each of the 19 drawers of the main box is home to a specific tool family, while the Snap-on side locker holds specialty tools like compression gauges, vacuum gauges and smoke machines. Lesser used tools are stored in the matching top locker, which fits over the hutch of the main box.

In addition to his main setup, Gaddie has a mobile tool cart from Mac Tools which holds "90 percent of everything to get most jobs done." He keeps most used tools in this 5' long, 44" tall cart, like select pliers and the socket sizes he uses daily.

As a technician focusing solely on driv-



OWNER:

Cody Gaddie

Brakemax Car Care Center
Tucson, Arizona

ability, the most used part of Gaddie's setup is a separate matching Snap-on cart dedicated entirely to diagnostic equipment, complete with computer monitor. (Yes, you counted right, that's two carts in addition to the main box.)

"I'm constantly monitoring live data from my diagnostic monitor and constantly have multiple scan tools or scopes hooked up at one time, since I specialize in drivability," he says.

Additionally, Gaddie says that besides the size factor, those monitors help the box stand out and it receives "a lot of attention from customers and employees."

Even though Gaddie says he loves the size of his box, he has some words of wisdom for technicians looking to make the purchase.

"Some advice I would give would be buy the tools first and then work up to a box," he says. "I see these guys buy the biggest box possible and have nothing to put

▲ This Snap-on KRL Series 1023 Roll Cab toolbox is 11' 4" long, 7' 4" high, 29" deep.

inside of it. I would rather have the right tool for the job and do the job correctly than to have a pretty box and can only do brakes because I don't have the tools to do anything else."

But for himself? Gaddie doesn't plan to slow down with his expansion. In the next year he says he wants to purchase a Snap-on Mr. Big toolbox with two side lockers, two hutches and three top horizontal lockers so that his setup looks "more uniform" and he has more space to keep organized.

"I'm out of room, and I can only add one more locker to my current box before it's as big as it can go," Gaddie explains. "I want to make the hutch my diagnostic cart and put two monitors in it so I can multitask even more. [I would] be able to read live data and also research information on the other monitor. PTEN

Want to see more photos of Gaddie's box?
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