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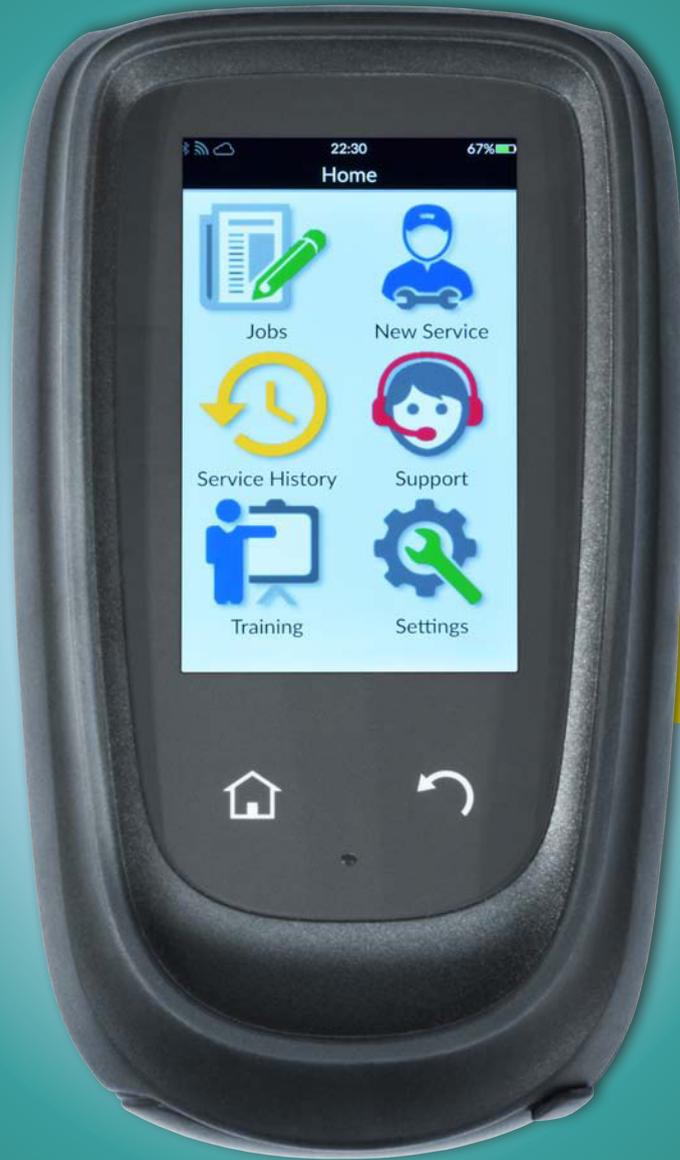
Professional Tool & Equipment News

The Independent Tool Authority



TECH 1000 TPMS SERVICE TOOL

by Bartec USA



200+
PRODUCTS
inside, plus
an AAPEX
Sneak Peek!

EXCLUSIVE:
2018 People's
Choice Winners
Page 68



Tool Briefing:
A positive approach
to battery issues
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Details on
the cover
products
and other
new tools
Page 10



Tech Routing List



▲ Perform a vehicle scan with Wi-Fi signal



▲ Automated pre- and post-scan report system



▲ High torque, low vibration

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X-431 PAD II AE

It is a Professional Scan Tool, which utilizes easy to operate Android tablet technology to meet your needs and expand as your business grows. Full system diagnostics, printable reports for Pre and Post scans, online vehicle research, and even part ordering is no problem with the open android platform.

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68 PEOPLE'S CHOICE WINNERS

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Shop: Black Cat Auto and Diesel
Location: Pacolet, S.C.

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TECH 1000
TPMS
Service Tool



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Find out the AAPEX and SEMA Editor's Picks from this year's show.

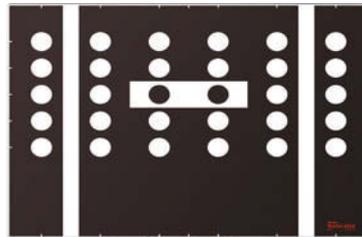
aaapex
ahead of the curve

SEMA
SHOW

ADAS CALIBRATION

ADJUSTABLE - ACCURATE - AFFORDABLE
COMPONENTS CALIBRATION COVERAGE

Calibration For
Camera, Radar, Lidar
and Night Vision

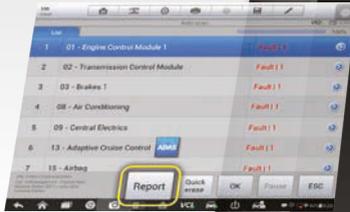


Ideal For Collision,
Alignment, Glass and
Specialty Repair

AAPEX Booth #1467

SEMA Booth #43263

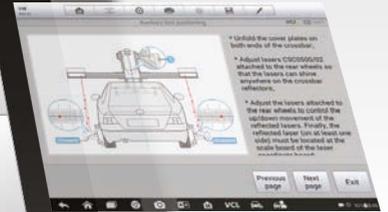
**AUTO SCAN
DIAGNOSTICS**



All System Modules
To Pinpoint Needed
ADAS Calibration



**GRAPHIC
INSTRUCTIONS**



OE Level Calibration
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Advanced Coverage

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ASK THE EXPERT



WHAT SHOULD TECHNICIANS KNOW ABOUT SMOKE MACHINES?

Diagnostic leak detection technology, referred to in the field as "smoke testing" or "using a smoke machine," is used by technicians as a solution to time-consuming problems. This article presents five tips for using a smoke machine. To read more, visit: VehicleServicePros.com/21020793

GUEST BLOG



Each shop has a similar workflow process – the differences lie in management styles. Our attitude and approach, from employees and customers, defines how we achieve success. This blog lists seven basic steps of the auto repair process. To read more, visit: VehicleServicePros.com/21021756

TECH TIP



Enable Wi-Fi on compatible diagnostic tools to maximize your investment. Without the Wi-Fi turned on, technicians aren't using their tools to their fullest potential and may be missing out on important repair opportunities. To read more, visit: VehicleServicePros.com/21021751

VIDEO



The GoJak Air, from Zendex Tool Corp., is a pneumatic service jack designed to replace hydraulic floor jacks. Powered by compressed air, the jack features a welded reinforced steel frame and reliable air springs. To watch the video demonstration, visit: VehicleServicePros.com/21023277

FEATURED PRODUCTS



ProPneumatic 4-pc Heavy Duty Tool Set

Mayhew Tools

VehicleServicePros.com/21023729



VEES Battery and Electrical System Conditioner

Megapulse USA

VehicleServicePros.com/21022282



Flexzilla Air Compressor with Silencer

Legacy Manufacturing

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Organize the chaos! Rinse, repeat.

You've got the tools. How long does it take you to locate them?

By Sara Scullin, Editor
Sara@VehicleServicePros.com

Have you ever found yourself looking around your workspace at the end of the day and thinking, "Well, this place was clean when I started..."? I have, quite frequently. Believe it or not, even in a tiny gray-walled cubicle, things can somehow spiral out of control quickly. Then, if and when there's a lull, I might put a few like-items here, toss some old notes/receipts/Kleenex there and boom - a transformation has taken place. I am recharged and ready to work again.

But a messy desk (or tool bench or bay) is the sign of a brilliant mind, right?

I'll tell you what - I really enjoy hanging out at different repair shops because each place always has its own vibe. I was once at a small, family-owned general repair shop in Texas that looked like something straight off a Hollywood movie set; everything was tidy and they had vintage motor signs hanging from the walls. I've also been to dealership service bays where nearly all the toolboxes were overflowing, but the jobs kept marching through, nevertheless.

When your workspace is never quite organized, but not exactly chaos, either, I think it's the sign of a healthy workload. It also keeps us thinking of new ways to organize the "stuff" and operate at peak efficiency.

In this month's Big Time Boxes, shop owner Chris Barnes of Black Cat Auto and Diesel in Pacolet, South Carolina, takes us through his 76" wide, 25" deep Matco setup, which he built to his own idea of perfection using Matco's online Toolbox Configurator tool. Barnes admits his Matco's drawers are "slammed full" of tools, organized by single categories. He keeps everyday wrenches and sockets in a separate tool cart.

"Before I came to the shop I'm at now, I worked in a shop that was overly crowded," Barnes says of his decision to build tall. "I wanted to get a locker, but I didn't have room in the corner I was in for a side locker. So, at the time I could only go up."

His main hutch is clear of tools and products, and mostly used for display. Or, as Barnes likes to say, "my little show-off area."

I think it is worthwhile to consider how we organize the tools we need to do our job, to surround ourselves with a workspace that helps us to feel both confident and competent. You may be super neat or take a more haphazard approach to your layout. If it's the latter, I bet you probably still know exactly where that torque wrench is located.

We've got a lot of tools in this issue that you could use to either mess up your shop or organize in a most efficient way. I've got a hunch that there's joy in both scenarios. **PTEN**



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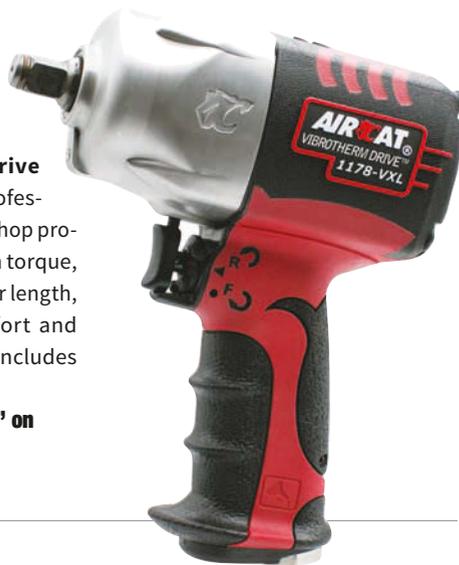
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FEATURED NEW PRODUCTS

High torque, low vibration

The **AIRCAT Pneumatic Vibrotherm Drive Impact Wrench Series** is designed for professional automotive technicians and service shop professionals. The impact wrenches offer high torque, low vibration, low noise, low weight, shorter length, longer working life and operating comfort and convenience, the company says. AIRCAT includes a three-year warranty on the tool.

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Perform a vehicle scan with Wi-Fi signal

The **Tire Profiles Groove Glove** is a handheld tread depth and alignment diagnostic tool designed to quickly perform a vehicle scan from anywhere in a service facility with a Wi-Fi signal. The Groove Glove generates a TreadTracker report, a single-page report that allows service personnel to help customers make informed decisions about tires and alignments.

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Automated pre- and post-scan report system

The **Launch Tech AIT (Automatic Information Terminal) "Roxie"** is a Pre/Post Scan Report Robot that automatically scans all makes, models and modules and emails a Pre/Post scan report to up to five email addresses at a time. No human interaction is needed, other than plugging the device into the OBD-II port. Roxie, the voice of AIT, speaks loudly as she calls out each module being scanned. Roxie utilizes an integral plug and play cellular hopping technology that seeks out the strongest signal from two providers. Roxie doesn't require any Wi-Fi, Bluetooth or smartphone pairing.

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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.



Wireless and easy to use

The **Bartec USA Tech1000 TPMS Tool** features a full color, brightly lit touchscreen, Wi-Fi, barcode reading, a camera and a wireless vehicle connection interface (VCI). The Tech1000 is a TPMS service tool designed to cover all aspects of service, from inspection and diagnostics to sensor programming, placard programming and relearns, the company says. The tool also offers additional-cost applications such as E-Brake Disengagement and Battery Management that add additional service capabilities. This tool can grow with the user's business and adapt to new and emerging technology, according to the company. Users begin with a quick scan of the barcode, QR code or data matrix label, the number is quickly decoded and users are ready to work. This tool is wireless and designed to be easy to use.

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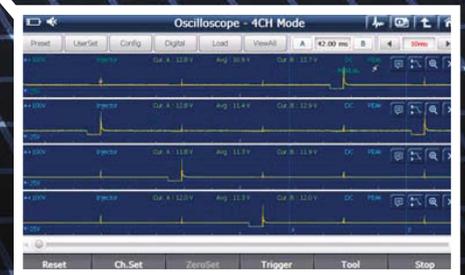
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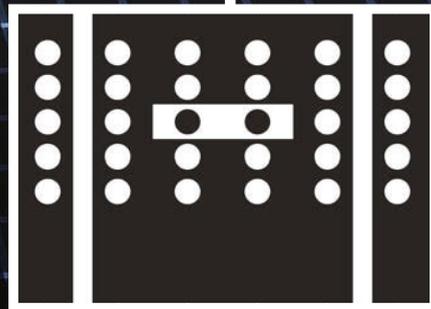
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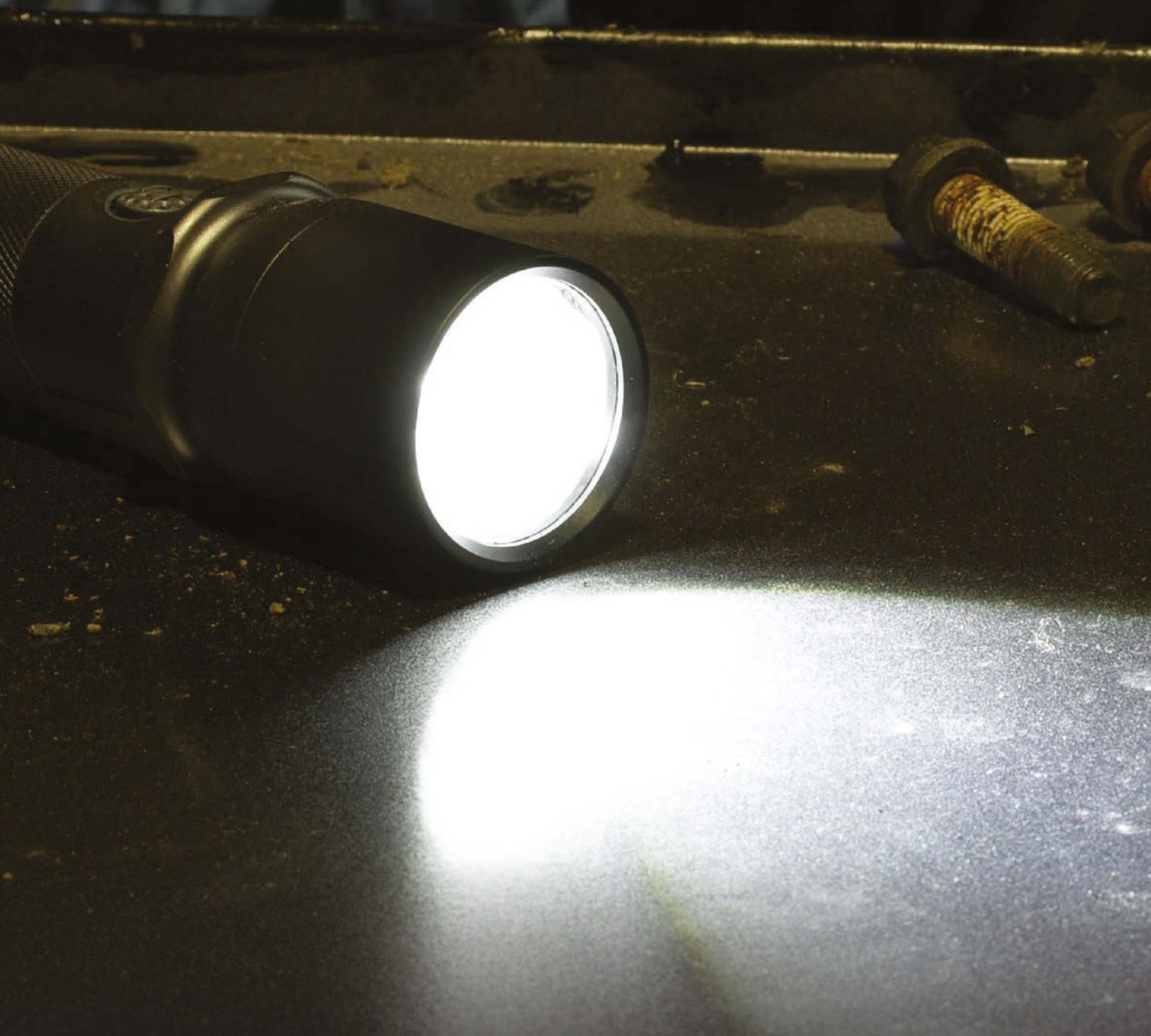
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AAPEX Booth #868



Consistent finish without discoloration

The **Walter Surface Technologies Enduro-Flex ALU Flap Disc** was developed for working with heat-sensitive metals such as aluminum and other non-ferrous alloys. These flap discs are formulated to maximize performance and drive productivity, the company says. They are iron-free, sulfur-free and chlorine free, with zirconia alumina grain blend to optimize blending and finishing performance on any aluminum surface for a consistent finish without discoloration. Enduro-Flex ALU discs are available in 4-1/2", 5", 6" and 7" diameter sizes with grit values of 40, 60 and 80.

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Features high performance cast iron pump



The **Puma Two-Stage Air Compressor**, No. TUK-7580VM, delivers 23 cfm at 175 psi, includes a splash lubricated belt drive, cast iron pump and a 7.5 hp, 1,750 rpm motor. The three-cylinder cast iron pump improves durability and dependability, according to the company. Standard features include a

pre-wired magnetic starter, 80-gal vertical air tank and extended manual tank drain. The compressor is designed for long lasting usage.

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Tilt and position weighted tractor tires

The **LiftWise Tilt Table** is designed to safely tilt and position weighted tractor tires from a horizontal to vertical position. Once a tire is in this position, it can be more easily picked up and transported by separate machinery. The Tilt Table is ideal for operations needed to stock and install large tires. This table has a maximum capacity of 5,250 lb and features 10 rollers for positioning tires up to 86" in diameter. The unit offers raise, lower and emergency stop functions. Ratchet straps secure the tire in place before leaving the horizontal position, and two hydraulic cylinders power the table.

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Find leaks on high voltage components

The **Mac Tools Insulation Testing Multimeter**, No. EM680, helps find leaks on high voltage components by applying high voltage/low amperage current through a circuit. The circuit is susceptible to "leaking" through the insulation if compromised. This "leaked" current can be detected and addressed accordingly. It can test from 0.1 to 4,000 mega ohms at 250V, 500V or 1000V. The volt meter ranges from 0 to 600V, the amp meter ranges from 0 to 400mA, and the ohm meter ranges from 0 to 40 ohms. The Insulation Testing Multimeter has a IEC-61010 CATIII 600V rating.



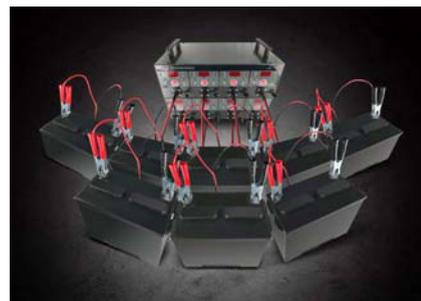
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Single point lock release

The **ATD Tools 10,000-lb Two Post Clear Floor Lift**, No. ATD2P10BSALI, offers a direct drive and single point lock release, low profile arms and spin up pads. This lift is ALL/ETL certified and includes a power unit, three stage front arms and stackable 2" and 4" truck adapters included. The lift has a 10,000-lb capacity and an overall height of 144". The lift has a 71" maximum lift height, inside column width of 116" and minimum pad height of 4".

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Microprocessor prevents overcharging

The **Schumacher ProSeries 8-Bank Charging Station**, No. DSR127, allows users to charge up to eight 6V and 12V batteries simultaneously. The unit is designed to be safe and smart, with each bank being completely automatic with a microprocessor to prevent overcharging, reverse polarity and short circuits. Users can revive severely discharged 12V batteries with the recovery setting. The station features a digital display, durable steel case and detachable 6' cables.

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Color blocking for a race-inspired look

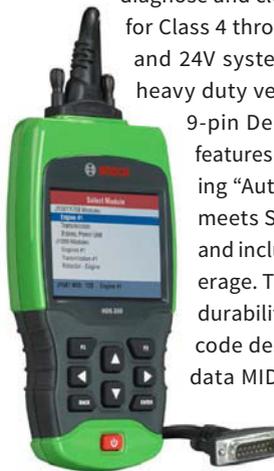
The Dickies Team Performance Work Shirt is designed with the comfort of workers in mind. This shirt features mechanical stretch for lightweight ease of movement, color blocking for a race-inspired look and spacious fit through the shoulders and chest for all day wearability. This shirt is stain resistant, moisture wicking, wrinkle resistant and industrial wash friendly.



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Covers most medium and heavy duty vehicles

The Bosch HDS 250 Heavy Duty Scan Tool Kit is designed to read, diagnose and clear heavy duty standard trouble codes for Class 4 through 8 vehicles. This tool works on 12V and 24V systems to cover most medium duty and heavy duty vehicles. The kit includes 16-pin J1962, 9-pin Deutsch and 6-pin Deutsch cables, and features Class 4 through 8 truck coverage featuring "Automatic Protocol Search." The HDS 250 meets SAE standards for HD J1587/J1708 CAN and includes engine, transmission and ABS coverage. The tool features a rugged enclosure for durability and offers a color display that shows code descriptions and definitions, graphs live data MIDS/PIDS and can record and playback data streams. The tool is updateable via the internet and comes with a one-year warranty.



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Designed to reduce solvent waste

The Zep Dyna Clean Parts Washer, No. Dyna 143, is designed to increase productivity and reduce solvent waste by providing continuous clean parts washing solvent through a dual filtration system. This washer degreases greasy and oily parts that have been removed from equipment. The system allows cleaning of soiled parts through a flow of solvent, with an Oriflo "Flow-Thru" brush, or submersion in solvent.



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Soaks up to 20 times more than traditional absorbents

Wurth Absorb is a 100 percent natural, organic, lightweight absorbent ideal for spill management. Made from coconut husks, this product soaks up to 20 times more than traditional absorbent clays and powders, according to the company. Wurth Absorb is approved by the EPA for use in disaster response nationwide for spill cleanup and passes California's CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay testing standards for landfill disposal. It is OMRI (Organic Materials Review Institute), NSF (National Sanitation Foundation) certified and approved safe for use in Food Manufacturing and Organic Food Processing environments.



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Designed with sharp edges

The **Mayhew Tools ProPneumatic 5-pc Cut, Chisel & Scraper Set**, No. 32023, includes both a 1-1/8" and 2" scraper, spot weld breaker, rivet and bolt cutter and 5/8" cold chisel. Designed with sharp edges, the tools are ideal for cutting bolts, breaking welds, scraping off under coating, cutting heads off of bolts or rivets and removing stuck or stubborn gaskets. Made of shock-resistant alloy steel that is fully hardened and tempered, all of the tools in the set feature a standard 0.401 Turn Type Parker Shank, are made in the USA and are backed by a lifetime warranty. A black oxide finish helps prevent corrosion, and the tools are packaged in a self-contained, reusable storage tray that fits most toolboxes.

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Holds spindle assembly securely in place

The **OTC Heavy Duty Spindle Adapter**, No. 5091, is designed for low-life transmission jacks. This adapter holds the spindle assembly securely in place during king pin service, eliminating the need to completely disassemble the brakes and reducing the spindle weight while handling. For maximum convenience during service, the spindle assembly can be raised to a comfortable working height while replacing king pin bearings or bushings. The patented design works with standard heavy duty truck bolt patterns and wheel stud sizes, and adapts to most low-lift transmission jacks. The spindle adapter is covered by OTC's lifetime warranty.



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For cleaning interior truck cabs

The **Steelman Heavy Duty Truck Cab Air Blow Gun**, No. 60492, is designed for cleaning the interior of truck cabs, from the cab to the sleeper. This kit comes with 11-1/2' of 1/4" O.D. high visibility red premium polyurethane tubing coil air hose, a T-style push-to-connect to quickly splice into the air seat supply line, a solid steel push-to-connect 1/4" NPT male fitting and a 1/4" NPT zinc alloy lever type blow gun with two nozzles. This blow gun is for use on trucks with air ride seat systems.



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Will not drip or run

The **AMSOIL Glass Cleaner** provides a professional-strength formula that cuts through grease and grime quickly and effectively, according to the company. Its ammonia-free formulation is safe on all glass, including tinted windows. This cleaner remains in place where sprayed and will not drip or run, leaving no streaks or haze behind. This cleaner is available in 19-oz. spray cans.

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Helps remove tire browning

The **Gold Eagle Products Tire and Rubber Cleaner**, No. 303, is a color-changing formula designed to wash dirt off of tires. This fast-acting formula helps remove tire browning, dirt and grime, and works on tires or any other rubber surface, especially floor mats, the company says.

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NEW PRODUCTS

Natural, olive-based abrasive

The Wurth Red Hand Cleaner

is designed for industrial use and heavy duty hand cleaning applications. This cleaner contains a natural olive-based abrasive that easily removes ingrained dirt over a wide range of applications. Red Hand Cleaner is ideal for removing stubborn grease, oil, paints, resins, tar, printing inks and other contaminants. It's also gentle on the skin, allowing for frequent use. The Wurth Hand Cleaner Pump is sold separately.



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Chamfered lip for better grip and turning power

The **Snap-on Flank Drive Xtra (FDX) Socket System** is the first redesigned Snap-on socket since the patented Flank Drive system developed in 1965. Standout benefits include: up to 25 percent more strength than Flank Drive sockets; angled contour that grips damaged fasteners more closely; optimally chamfered lip on both the hex and drive ends of the socket for improved grip and turning power; grooved grippable outer walls; and large, distinctive markings on the socket exterior for easy identification.

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Precision machined counter weight for smooth operation

The **Wizards Products Heavy Duty Big Throw 21mm Dual Action Polisher** offers 900-watts of power, providing a higher speed option for quick correction and defect removal, the company says. The polisher offers improved balance with precision machined counter weight for smoother operation, which helps allow for faster speeds with less vibration. The package includes a 20' durable but flexible cord and larger tote bag with shoulder strap.

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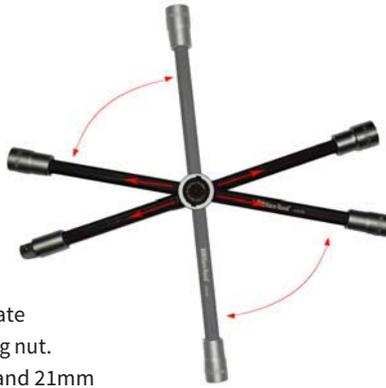
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NEW PRODUCTS

Convenient fold away design

The **Ken-Tool Stow & Go Heavy Duty Wrench**, No. 35636, offers a fold away design that allows the wrench to be stowed in a trunk, toolbox or behind a seat when not in use. The moveable arms swing and lock into the 90 degree position, and the arms can be slid within the locking hub to create greater leverage when removing and tightening a lug nut. The Stow & Go features three fixed 17mm, 19mm and 21mm lug nut sockets, plus 1/2" square drive adapter to use other sockets for lug nut removal. This wrench also doubles as a heavy duty, high torque wrench for the removal of other bolts or nuts. The Stow & Go is manufactured from black anodized, high strength tool grade steel alloy, and is 16" long, 2" deep, has a folded height of 17.5" and weighs 2.9 lbs.

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Scans tires for tread depth and alignment

The **Tire Profiles TreadSpec 2.0** is a drive-over system that automatically scans tires for tread depth and alignment-related wear. Customers drive over TreadSpec, and the software generates a TreadTracker report that allows service personnel to help consumers make informed decisions about tires and alignments. TreadSpec provides integration, reporting and data to capture every tire opportunity, enhancing customer retention, service efficiency and profitability, according to the company.

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Brushed nickel silver bolsters

The **Buck Knives 112 Auto Elite Knife** offers a G10 handle with brushed nickel silver bolsters and a clip point blade. The 1120 Auto is easily deployed with the push of a button, readying the S30V blade quickly and efficiently. The knife includes a leather sheath for safe carry. This knife features a lifetime warranty and is made in the USA.

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NEW PRODUCTS



Offers grounded outlet

The **Alert Stamping 1300 lm COB Light Reel**, No. 5030AM, features a 30' 16/3 SJTOW cord. The light has a grounded outlet in the handle with a Power "ON" LED indicating the outlet is electrified. The light has an integral magnet, folding swivel hook and soft hand grip. All ceiling or wall mounting hardware is included. The light reel is cETLus Listed. Additional features include: 30' 16/3 Retractable LED Reel and 1300 lm COB Style.

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Fish-scale pattern designed for grip

The **MCR Safety Nitrishield Gloves with Grippaz Technology**, No. 6026B, features a fish-scale pattern designed for grip and durability. These gloves are ergonomically designed for wet grip on the outside and to reduce hand slippage on the inside. The gloves are ideal for a variety of industrial uses, including automotive, assembly, spray painting, electro-plating, cleaning, asbestos removal and janitorial.

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For use on Ford 7.3L International engines

The **ProMAXX Quido ProKit** is precision-engineered for removal of broken exhaust manifold bolts on the Ford 7.3L International engine. Quido is available as a ProKit, which includes all the accessories to deliver a fast and high quality repair. This tool is manufactured in the United States exclusively from American-made materials, and comes with a limited lifetime warranty and free unlimited technical support.

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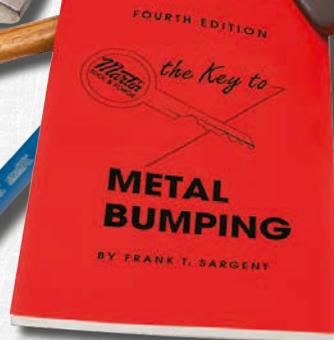
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NEW PRODUCTS



Prevents overtightened bolts

The **Chicago Pneumatic 1" Torque Limited Impact Wrench, No. CP7782TL-6**, prevents overtightened bolts by limiting the torque during tightening to around 370 ft-lbs (500 Nm) in the forward direction. The Limited Impact Wrench features an ergonomic D-handle with full teasing trigger and shock-absorbing bumpers.

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Lightweight, slim profile

The **Buck Knives 110 Slim, Pro Knife** offers the same features of the company's 110 Folding Hunter knife with a more modern look and upgraded materials. With a lighter weight and slimmer profile, this version is ideal for everyday carry. The deep carry pocket clip allows for quick and easy access, and the thumbstud allows for one-handed opening. Utilizing S30V blade steel, the heavy bolster and handles were replaced with durable Micarta and black G10 to reduce weight while maintaining the same quality and rigidity. This knife is available in black, brown and green.

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Produces a thicker, denser smoke

The **Pro S 25 ELF Smoke Monster**, from **Proflex+**, is a small, lightweight smoke machine designed to produce a thicker, denser smoke. The unit weighs 5.2 lbs and features detachable cables and hoses, making them field serviceable. This smoke machine offers a patent-pending ceramic heating element that is covered by a limited lifetime warranty. The unit performs all standard testing, including EVAP, performs air leak decay test and is fully equipped with all the accessories needed in a hard-plastic case. Other features include a built-in flow meter and pressure gauge that helps reduce downtime, and an 18 gauge steel shell designed to be virtually indestructible.

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NEW PRODUCTS

Offers 8,000-lb capacity

The **AMGO 408-P Lift** is ideal for shops and home car ports with limited floor space and performance maximization in mind. The 408-P requires no special foundation or complicated installation, the company says, and is about the size of a typical parking space. This lift is designed for commercial shops and residential car ports trying to save space, and offers a lift capacity of 8,000 lbs.



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Operates no louder than normal conversation

The **Legacy Manufacturing Flexzilla Air Compressor with Silencer, 208 Volt, 3-Phase, 2-Stage, Vertical,**



No. FXS07V080V3-208, is designed to operate quietly in the work space. This compressor features the company's Quiet Technology with Silencer noise suppression and operates at noise levels no louder than a normal conversation. The compressor features a large, low rpm pump and motor, 7.5 HP motor, 80-gal tank, automatic tank drain, continuous run for big air jobs, Cool Flow Technology and an exclusive six-year parts warranty. This compressor has a max psi of 175.

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Designed to make specific removal applications easier

The **Mayhew Tools 4-pc Specialty Hammer Set**, No. 32024, includes a concave hammer, smoothing hammer, peen hammer and U-joint hammer. Each hammer is designed for specific removal applications: The smoothing hammer is used to remove details such as creases or curves on surfaces; the concave hammer rides on the pin when starting, pushing bolts out of corroded locations; the u-joint hammer is for removing u-joints or straightening a tie rod; and the peen hammer is used to shape or work metal. The tools are packaged in a self-contained, reusable storage tray that fits most toolboxes.



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Allows right and left-hand rotation

The **Mastercool Air Powered Brake Caliper Windback Tool** is designed to offer energy savings on break calipers. This tool allows right and left-hand rotation.

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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 gear-box housing, variable speed with reversible and electronic brake control precision, built-in LED and battery power indicator.

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Inspect trailer drums without removing wheel

The **Central Tools Wheels On Trailer Drum Gage**, 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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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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For hammering operations such as U-joints and body framing work

The **Mayhew Tools ProPneumatic 4-pc Hammer Set**, No. 32025, consists of four pneumatic hammers in varying lengths used for hammering operations such as U-joints, ball joint and body forming work. They can also be used to hammer out seized anchor pins and remove frame rivets and huck bolts. The hammers are made of shock-resistant alloy steel that is fully hardened and tempered, and a black oxide finish prevents corrosion. The tools come in a nylon case for easy access and storage.



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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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NEW PRODUCTS



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 tool Nos. 567614 and 567617.

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Patented spring and plunger combination

The **Snap-on 4-pc Heavy Duty Spring Punch Set**, No. SPHDSET4, utilizes a patented spring and plunger combination, eliminating the need for a hammer and reducing the risk of injury. The unique design delivers accurate blows with up to 5,000 psi impact force on the toughest materials. Knurled shanks give techs a better grip for precision control, even when using gloves. The 4-pc set includes a transfer punch, cold chisel punch, center punch and pin punch.

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Features 270 degree adjustable guard

The **Cleco Right Angle Grinders** feature a 1.7 hp motor designed for increased power and productivity. The grinders are designed to fit all Type 27, Type 27 threaded hub and Type 1 abrasive discs. Notable features include quiet operation with rear exhaust overhose standard; ergonomic, anti-vibration handle; spindle lock designed for quick abrasive changes; dual-layer, high-impact composite housing; and a 270 degree adjustable guard for improved access in tight spaces.



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Mix liquid and air outside the nozzle

The **Exair 1/8 NPT No Drip External Mix Atomizing Spray Nozzles** mix liquid and air outside the nozzle and allow the air and liquid flows to be adjusted independently. The patented No Drip External Mix Atomizing Spray Nozzles work in the same way the company's standard nozzles do, but have the added benefit of positively stopping liquid flow when compressed air is shut off. These nozzles are available in different liquid patterns: round, narrow angle flat fan and wide angle flat fan patterns. Applications include painting, coating, rinsing, cooling, quenching, wetting (moistening), dust control and humidification. The nozzles are fully adjustable to minimize air and liquid consumption and have interchangeable liquid and air caps.



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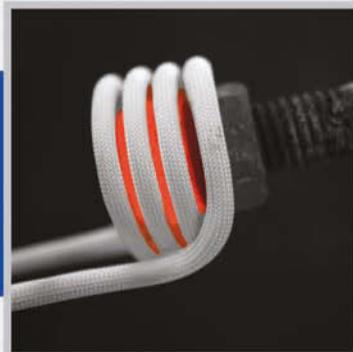


Offers integrated parts tray

The **AFF 4-Ton Heavy Duty Floor Jack, No. 400SS**, offers a twin hydraulic system for fast and efficient lifting. The jack features a heavy duty pump, ram and cylinders that are precision machined and inspected to help ensure long service life. Other features include high grade U-cup seals and high-pressure plunger, rear mounted swivel casters, universal joint technology, pinned and padded saddle, flanged side plates and integrated parts tray. This jack meets ASME 2014 standards.

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NEW PRODUCTS



Comes with 15-degree tilt socket adapter

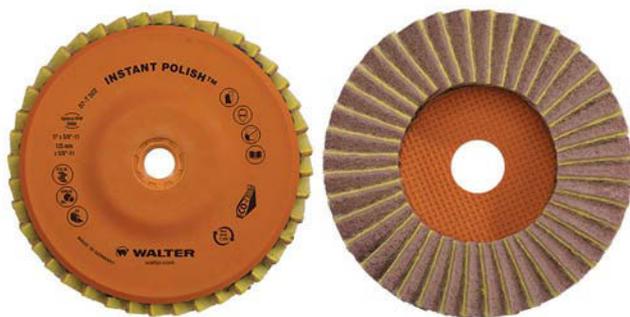
The **Makita Impact GOLD 9-pc 3/8" Drive Socket Set** comes in Metric (No. B-49862) and Standard (No. B-34833) sizes. The set offers a 1/4" hex to 3/8" square drive socket adapter which tilts up to 15-degrees for use in tight spaces. The sockets are made from heat-treated alloy steel for high-torque applications, and are ideal for use with impact drivers, impact wrench and ratchets. The black oxide coat on the sockets is designed to resist corrosion. The socket set comes in a flexible boot for storage. The metric set comes with the following 3/8" drive impact sockets: 8, 10, 12, 13, 14, 15, 17 and 18mm. The standard set comes with the following 3/8" drive impact sockets: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16" and 3/4".

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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 handsfree 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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Achieve No. 8 mirror finishes in a single step

The **Walter Surface Technologies Instant Polish Discs** are designed for fast, single-step finishes. These discs are available in 4-1/2" and 5" diameter sizes for use at a maximum 7,300 rpm and optimal 2,000 rpm, and are ideal for automotive, transportation, food and beverage equipment, aerospace and other sector-specific applications. With powerful polishing properties and improved engineering, these discs can achieve No. 8 mirror finishes in a single step, according to the company.

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Measure all four wheels in five seconds

The **CEMB USA ARGOS InstaCheck Touchless Alignment Inspection System** uses a 3D machine vision scanner design to instantaneously measure all four wheels in five seconds. This system has no setup, the company says, and eliminates the chance of operator error. There are no clamps, targets or electronics at the wheels. With 'facial recognition'-like dimension, measurement is accurate and repeatable, according to the company. The system can be used in three ways: ARGOS InstaCheck, InstaVision or a combination of the two combining instant checks and alignment capability in a single unit. ARGOS recalibrates automatically after every vehicle.

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For general cleaning and light duty degreasing

The **Zep High pH Presoak** is designed as a pre-wash on heavily soiled trucks before a heavy duty cleaner. This product is ideal for general cleaning and light duty degreasing of all surfaces of cars, trucks and heavy equipment. The High pH Presoak is a concentrated multi-purpose, moderate foaming liquid vehicle wash for use with high pressure washing.

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Twist, grab and loop up to three wires

The **Klein Tools Klein-Kurve Heavy Duty Wire Stripper**, No. K12054, is forged from a U.S.-made proprietary steel blend for improved strength. The wire strippers feature precision ground stripping holes for use with 8 to 16 AWG solid and 10 to 18 AWG stranded wire. The knurled jaw can twist, grab and loop up to three wires at a time, and 6-32 and 8-32 screw sheering offers convenience on the job. The tool offers comfort grip handles for reduced hand fatigue.

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QUICKJACK



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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Designed for safety on the job

The **Channellock Insulated Pliers** are designed for professionals who need high quality 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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Includes automatic temperature compensation

The **Mastercool Refractometer**, No. 43705, offers a way to test the freezing point of coolant and anti-freeze. This product is compatible with ethylene or propylene glycol and measures battery acid specific gravity. Other features include automatic temperature compensation, large graphics and high contrast lens, an adjustable focus viewfinder and metal body structure. The refractometer includes a storage case, fluid dropper and calibration screwdriver. This product is not for use with OAT coolants or DEF.

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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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Enables removal of injectors without having to remove electrical plug connection

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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Up to 10-hour run-time

The **Alert Stamping 20W LED Rechargeable Flood Light**, No. LJR20C, features a 4,400 mAh Li-ion Battery and push button dimmer with three brightness levels: 2,000 lm, 1,000 lm and 500 lm. The offers up to a 10-hour run-time, as well as a low battery and charge status indicator light. The light is rated IP54 rainproof.

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NEW PRODUCTS

Forward handle design for improved balance



The **Mac Tools Long Barrel Air Hammer**, No. MPH1911, features a forward handle design for improved balance and ergonomics. The comfortable handle grip and anti-vibration technology is designed to reduce shock and increase comfort during use. The air hammer can deliver up to 2,400 blows per minute. The MPH1911 includes a two-year limited warranty, and is available with a chisel kit (No. MPH1911K).

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Tackle tough paint and body projects

The **Summit Racing Sanding Discs** feature a pressure-sensitive adhesive backing and utilize aluminum oxide abrasive material to tackle tough paint and body projects. These 6" discs are available with 40, 80, 150, 220 and 320 grit sanding surfaces and come in packs of 25.



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Deep top storage compartment

The **K Tool International Tool Cart Locking Drawer**, No. KT175146A, is a 600-lb capacity shop cart that provides tool organization. The cart features 5" heavy duty swivel casters for maneuverability, and bumpers on all four corners for extra protection. Its lockable components provide security for the user's tools, and the deep top storage compartment features a gas strut lid for easy opening and closing. There are two small, one medium and one bottom steel drawers for storage. A low-level bottom shelf offers storage for oversized items.



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Removes hard water stains on glass

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. 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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Ideal for heavy duty applications

The **Allstart Heavy Duty Booster Cables**, No. 563, are extra long for front, side and back hookup. These 20' cables have a 6 gauge wire for use with trucks and cars. These cables offer 600 amp clamps and are ideal for heavy duty needs.

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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. 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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NEW PRODUCTS



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 designed to be easy to learn and includes a training kit.

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Offers centralized locking system

The **Beta Tools Endurance Workbench**, No. C59A, has a built-in tool storage cabinet with six drawers. The drawers are on ball-bearing slides, and there is a centralized locking system. The cabinet and bench construction are steel, and the workbench top is made from a durable wood multi-ply material that has a laminated top. The worktop also has holes for mounting the company's 1599/125 Vice. There is an open shelf on the bottom of the workbench that allows storage for larger items. The C59A is available in orange, red or gray.

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Removes stubborn debris

The **Exair Soft Grip Super Air Scraper** is a safety air gun designed to help remove stubborn debris found within industrial facilities. The patent-pending design uses a scraping blade to aid in the powerful compressed air flow removal of debris. This product is ideal for removal of caulk, adhesives, tape, paint, stickers, labels, grease, lubricant and difficult to sweep metal chips, flakes or discs. The electroless nickel plated spring steel scraper is used in combination with the company's 2" Flat Super Air Nozzle and installed on the Soft Grip Safety Air Gun to provide power, durability, corrosion resistance and comfort, according to the company. The CE compliant Soft Grip Super Air Scraper is available with extensions from 2" to 72" long.

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Pressure-sensitive adhesive backing

The **Summit Racing Sandpaper Rolls** feature pressure-sensitive adhesive backing and come in the following grits and lengths: 80 grit, 10 yard and 20 yard lengths; 180 grit, 10 yard and 25 yard lengths; 220 grit, 10 yard and 25 yard lengths; 320 grit, 10 yard and 25 yard lengths; and 400 grit, 10 yard and 25 yard lengths.

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Automatically selects welding process

The **Miller Electric XMT 350 FieldPro with Polarity Reversing** features Quick-Select technology that automatically selects the welding process, correct polarity, cable outputs and welding parameters, according to the company. The optimized stick and TIG performance is designed for open root pipe welding.

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Convert drills and drivers into riveters

The **Mighty Seven Rivet Adapter Kits**, Nos. PA-9048, PA-9064, PB-9006 and PB-9010, convert cordless drills, drivers, pneumatic and electric drills into riveters. Both adapter kits are made from industrial grade composites and internal steel components. PA-9048 and PA-9064 rivet adapter kits include multiple sizes from 1/8" to 1/4" capacity. PB-9006 and PB-9010 rivet nut adapter kits include multiple sizes from M3 to M10. PA-9064 and PB-9010 require a higher-powered capacity drill, the company says.

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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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Clear compartments so users can see contents

The **Beta Tools Carry Toolbox**, No. CP15, has three organization compartments built into the top of the toolbox. This allows users to access these three compartments without needing to open the entire box. The compartments are clear, so users can see the contents without opening. This is ideal for storing small, frequently needed items.

Two compartments are removable and have adjustable partitions, so users can customize the spaces for items they want to store in them. The interior tote tray is the length of the toolbox and has a built-in carrying handle. The carrying capacity is 60 lbs.

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Patented hammer mechanism for reduced vibrations

The Matco Tools 16V Cordless Infinium 1/4" Drive High Performance Impact Driver Kit, No. MCL1614HPIDK, features a brushless motor that provides 150 ft-lbs of working torque. The patented hammer mechanism helps reduce vibrations, and the soft TPR grip improves comfort. A trigger-activated dual LED light with time delay illuminates work in poorly lit areas. The kit includes two MCL1620LB 2.0AH batteries, a charger and a carrying case.

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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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'Flip-up' height extension

The Hofmann Megaplan Megalift 2100 All Certified Overhead 10,000-lb Capacity Lift is a two-post lift designed for quality and performance. The Megalift 2100 boasts an industrial-level build quality with Double S Column design and includes luxury features such as 'flip-up' height extension, the company says. The lift can be installed with the columns positioned symmetrically or asymmetrically, and it comes standard with double screw up and truck adapters.

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Lead Acid, Lithium or Capacitor CHOOSE THE BRAND THAT MEANS POWER

Jump-N-Carry jump starters are ideal for use in a wide variety of jump starting environments, including automotive, marine, fleet and industrial. Extreme jump starting power, long cranking duration and extended service life are the key features of **Jump-N-Carry**.

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JNC8550
12V Capacitor
Jump Starter

- 800 Start Assit Amps
- 68" #2 AWG Cables
- PowerJaw™ Clamps
- Not affected by cold



**JUMP
n Carry**
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Adjusts to different working heights

The **Monster HD Adjustable Work Table with Drawer**, No. MST8019, stands from 34" to 47-3/4" tall to accommodate different vehicle heights. The 1" deep drawer features a non-slip rubber bottom to keep tools in place, and each corner features rubber bumpers to protect surrounding areas. This top tray also features four separate tray areas for improved organization, four large swivel casters and inset grooves to hold air tools or pry bars.

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VehicleServicePros.com

Built-in LED and battery power indicator

The **Li-ion 20V Brushless 1/2" Impact Wrench**, No. ARI20156, from **ACDelco**, offers an advanced brushless motor that delivers 320 ft- lbs reverse torque and 205 ft- lbs tightening torque. The entire tool weighs 2.86 lbs. The ARI20156 features metal gearbox housing, variable speed with reversible and electronic brake control precision, rubber boots, built-in LED and battery power indicator.

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VehicleServicePros.com



Restore sensor threads

The **Lisle NOx Sensor Thread Chaser M20**, No.

12220, is designed to clean the threads in M20x1.5 NOx sensor holes, and to restore sensor threads. This product can be used with a 13/16" hex socket or 3/8" square drive.

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VehicleServicePros.com



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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UVA, UVB and UVC protection

The **Matco Tools ForceFlex Clear Half Frame Safety Glasses**, No. FF2CLR, are multi-patented safety eyewear designed to offer flexibility, comfort and adjustability. The glasses offer key flex points with elastomeric compound for improved flexibility while retaining the original form. The i-Form frames help eliminate pressure points and improve comfort, and the T-axis optics are engineered for zero distortion across the entire lens. IntraBlock UV protection lens technology offers 100 percent UVA, UVB and UVC protection. These glasses feature eight accepted patents and four patents pending.

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Next Generation Diagnostics

The first full diagnostics platform completely re-invented **for mobile**

POWER

Gesture-based user interface allowing for more complex interactions

SPEED

WIFI for greater distance and faster throughput

COVERAGE

Highest scoring scan tool in the 2017 collision scan tool shootout

REPORTING

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- 58 car makers
- Full DTC output (including freeze frame, event data, odometer, fault frequency, number of ignition cycles, etc.)
- Bi-directional controls and system tests (including Power Balance, Crank Learn, etc.)
- Reset adaptations and calibrations (including SAS, Yaw Rate, Zero Calibrations, and DPF Relearns, etc.)
- Annual update costs 50 -450

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From the Industry Leader



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"e-inquiry" on VehicleServicePros.com**



Offers 180-degree lens

The **Save Phace DOA Welding Helmet** has a 180-degree lens design and face forming profile which allows the user to have full peripheral vision and weld in hard-to-reach places. The high quality ADF is warranted for 24 months, and all parts are fully replaceable. The nine-point adjustable halo gives the wearer the ability to adjust the helmet up, down, back or front for the perfect custom fit, the company says.

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VehicleServicePros.com**

**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.

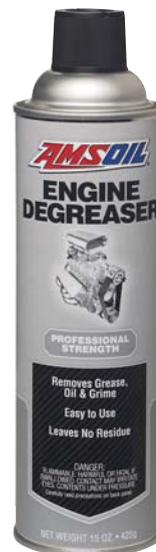
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on VehicleServicePros.com**



**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-lb 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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VehicleServicePros.com**



**Safe to use on
engine components**

The **AMSOIL Engine Degreaser** is a professional-strength formula designed to remove the toughest grease, dirt and grime from engine surfaces. Formulated with powerful degreasing solvents, it delivers a powerful stream that's safe to use on engine components and leaves no residue. Simply spray on and wash off with water. This product is available in 15 oz. spray cans.

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VehicleServicePros.com**

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12-2415 Features:

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- Test 12V batteries and electrical systems plus 24V starter and alternator systems
- Reverse polarity protected (if reverse hookup, will NOT turn on)
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- Tests wide range of batteries including WET, AGM Spiral or Flat Plate, EFB (Stop-Start) and GEL
- Multiple rating system compatible (CCA/SAE, CA/MCA, DIN, EN1, EN2, IEC, JIS#)
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Barcode scanner

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NEW PRODUCTS

Beta
Professional Hand Tools
and Tool Storage

ITALIAN DESIGN SINCE 1939



C275 Collapsible Tool Trolley

Offers technicians a unique tool storage unit that collapses for easy transportation or storage. When collapsed, it has a centralized locking system that secures with keys provided. The two center tray drawers slide-out in either direction enabling easy access to tools.



C57SP Wall Mounted Pegboard Cabinet

- Aluminum roll-up door with lock
- Three removable perforated metal panels
- Dimensions: 67"x37"x7"



C41H Tool Trolley

- 3 roll-out drawers (key-locking)
- Removable top box with handle
- Sheet metal construction

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amazon

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For greasy, hard-working hands

The **Kutol Pro Brand Industrial Hand Care Products** are designed for preparing, cleaning and restoring greasy, dirty, hard-working hands. This line includes products to meet the hand hygiene needs of mechanics, factory workers, construction crews, miners, professional printers, farmers and other tough-job professionals. The line provides a three-step program for preparing hands before work, hand cleaners to remove grease and grime and post-work hand moisturizer specifically formulated to restore working hands.

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VehicleServicePros.com



Offers eight-hour run-time

The **Nightstick 3AA X-Series NSP-2420 Flashlights** project a sharp, white 250 lm LED beam 143 meters (470') and boasts an eight-hour run-time. These lightweight polymer body lights feature a single momentary and constant-on tail switch and lanyard loop attachment point for improved safety and retention. The flashlights are available in green, yellow, red and black.

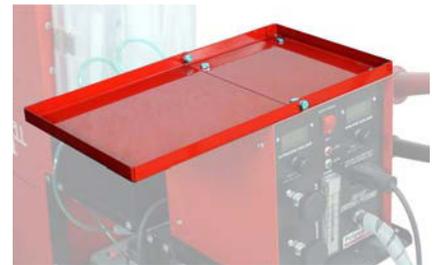
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Includes metric bolts for most applications

The **OTC Heavy Duty Gear Puller**, No. 6614, is stout enough for almost any heavy duty application and includes a pair of metric bolts for most applications. The slim design cross block allows more room to set up in tight quarters to pull more gears. The puller has a spread range of removing gears from 2" to 7-1/4" in diameter, including most cam gears. The tempered steel rust inhibitor-coated bolts are graded 10.9, have M12x1.75" threads and are 90mm in length. The puller has a 5-3/4" long forcing screw threaded 5/8"-18 and has a pulling reach of 3-1/4". The tool includes sliding plates to ensure smaller gear bolts up to 1.2" in diameter are always centered. The puller is treated to resist corrosion and is covered by OTC's lifetime warranty.

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VehicleServicePros.com



Features an upturned edge to keep items from rolling off

The **Polyvance 6074 Nitro Fuzer Accessory Shelf** is designed to increase the functionality of the company's nitrogen plastic welders. The shelf mounts to the top of most Polyvance nitrogen plastic welders, providing useful space to organize tools and welding rod, the company says. This shelf folds out to expand the working space on top of the welder, and it folds back for compact storage. The shelf features an upturned edge to help keep items from rolling off, and slots to accommodate the triggers of most air tools. This shelf can be installed on any 6057 through 6085 nitrogen plastic welder.

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VehicleServicePros.com



Make leak-proof gaskets in one minute

Permatex The Right Stuff 1 Minute Grey Gasket Maker is designed to make leak-proof gaskets in one minute and put parts back in service. This product's formulation features an elastomeric rubber gasket technology designed to perform under the higher torque loads associated with import vehicle engines that have closely spaced bolt patterns. The product seals instantly and is blowout resistant, the company says. It can withstand temperatures from -75 degrees F to 450 degree F continuous, and 500 degrees F intermittent. It is sensor-safe, resistant to powertrain fluids and offered in a variety of sizes to meet any job requirement. Suggested applications include automotive gaskets, valve covers, oil pans and more. Permatex also offers The Right Stuff 1 Minute Black Gasket Maker, which is fleet tested to be leak-free in more than 5 million miles of heavy commercial use, according to the company.

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Designed for wide brake assemblies

The **Hennessy Ammco 4100B Combination Disc and Drum Brake Lathe** is designed for wider brake assemblies. The 4100B offers the same basic design and features of the company's Ammco 4000B, but adds an additional spindle travel of 9.875". This unit is designed to be easy-to-use, fast and precise.

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Two stage telescopic ram

The **AFF 2,000-lb Telescoping Air Assist Heavy Duty Transmission Jack**, No. 3102A, offers a two stage telescopic ram designed for medium duty truck transmissions, transfer cases and differentials. The double pump hydraulic system is designed for quick lift operation, and a powder coat finish provides resistance to corrosion, chemicals and scratches. Other features include a chrome plated pump core and piston rod for reduced friction and an adjustable saddle with corner bracket and safety chain. This jack adheres to ASME 2014 standards. An optional fuel tank adapter is also available.

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Includes SPX power unit

The **ATD Tools 12,000-lb Two Post Clear Floor Lift**, No. ATD2P12BSALI, offers a direct drive and single point lock release. The lift is ALI/ETL certified and includes an SPX power unit and stackable 2.5" and 5" truck adapters. The lift has a 12,000-lb capacity, overall height of 168-1/2", maximum lift height of 75", inside column width of 122" and minimum pad height of 4-7/8".

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Helps increase power and efficiency

The **Gold Eagle Products STA-BIL 360 Degree Protection Fuel Stabilizer and Ethanol Treatment** is designed to clean the fuel system to help increase power and efficiency. STA-BIL 360 Protection helps prevent corrosion and damage from ethanol fuels. This product can be used in all gasoline engines, including vehicles, motorcycles and small engine equipment, according to the company.

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Offers five Auto-Speed rpm levels

The **Miller Electric Trailblazer 325 Diesel Welder/Generator** is designed to maximize run-time and fuel efficiency while reducing expenses with a combination of Auto-Speed technology and Excel power. This welder offers five Auto-Speed rpm levels, allowing operators to weld up to 135 amps while the engine remains at idle (1,800 rpm).

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NEW PRODUCTS

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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Fine and serrated edge

The **Klein Tools Spring-Assisted Open Pocket Knife**, No. 44223,

features a 440A stainless steel, drop point blade designed to provide

both a fine and serrated edge for a wide range of applications. The spring-loaded opening mechanism helps make blade deployment easier, and the liner lock secures the blade open. Other notable features include a low-carry pocket clip, safety lock to keep the knife closed when packed away, dual thumb studs for left- or right-handed opening and a lanyard hole for tethering.

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Full-size top drawer with adjustable partitions

The **GEARWRENCH Mobile Work Station** offers practical functionality and durability with customizable features that allow users to make this station work them them.

The Mobile Work Station features industrial grade 6" by 2" wide polyurethane locking casters that support a max capacity of 2,000 lbs. With 11 different-sized drawers, including a full-size top drawer with adjustable partitions, and a lockable side cabinet with adjustable shelf this storage space is flexible enough to fit any tool. The drawers offer 100-lb capacity ball-bearing locking drawer slides. With a charging tray and power strip with six 120V outlets and two USB ports, users can charge tools and power electronic devices as needed. A spray can shelf and pegboard panel offer additional options for customizable storage of tools, power cords, hoses and more.

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1250-K



1770-XL



1992



How it works:
Gift Cards will be provided by your AIRCAT distributor based on a \$25.00 gift card for each of the three models purchased during the promotion.

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| Model No. | Free Speed (RPM) | Loosening Torque (ft-lb) | Drive Size (IN) | Noise Level d(B)A | Weight (lbs) | Length (IN) |
|-----------|------------------|--------------------------|-----------------|-------------------|--------------|-------------|
| 1250-K | 8,000 | 1,300 | 1/2 | 86 | 4.5 | 8.25 |
| 1770-XL | 6,500 | 1,600 | 3/4 | 89 | 7.4 | 8.25 |
| 1992 | 5,000 | 1,800 | 1 | 98 | 26.0 | 23.2 |

Promotion Period: 10-1-2018 to 12-31-2018

www.AIRCAT.com

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Dual leverage for two modes

The **Lumax Premium Heavy Duty Grease Gun**, No.

LX-1153, is a heavy duty, dual leverage pistol grease gun that offers a balanced and ergonomic design for one-handed operation. The grease gun features a heavy duty gauge steel barrel with wideband non-slip knurling to provide a secure grip. The dual leverage offers two modes: one mode for pressure, and one mode for volume. An 18" high-pressure ultra flex hose with spring guard is included with the grease gun.



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◀ **LED Light Cord Reels**
Series L 4000

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NEW PRODUCTS



3,300 strokes per minute

The **Monster Pistol Grip Needle Scaler**, No. MST7112, is capable of 3,300 strokes per minute. Angled for ease of control and maneuverability and made with composite construction for comfort and handling, this tool features a snout nose design for increased reach into hard-to-reach areas.

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Detailed graphic instructions for calibration procedures

The **Autel MaxiSYS ADAS Calibration Tool Package** provides advanced components and accurate procedures for camera, radar, lidar and night vision driver assist system repairs. Ideal for collision repair, wheel alignment, glass replacement and specialty repair shops, the ADAS Tool Package comes equipped with an easily adjustable calibration frame and interchangeable targets. The advanced MaxiSYS software provides detailed graphic instructions and precise measurements for setup and calibration procedures. The MaxiSYS tablet also includes OE-level coverage, bi-directional diagnostics, service reset functions and a single button Pre-SCAN and Post-SCAN feature with ADAS identification.

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Swivel handle rotates 180 degrees

The **Clare Automotive Light-N-Carry 800 lm COB LED Work Light**, No. LNC1841, is designed to be reliable, tough and compact. This light provides a maximum output of 800 lm from its high worklight setting and features both high and low settings. Its focus beam provides 60 lm to illuminate a specific location, and the swivel handle rotates 180 degrees and features magnet

mounting to allow ideal positioning in the work area. The light has up to a 3.5-hour runtime on high and is IP54 rated dust/water ingress protection. The light includes a wall charger with braided cable, repair service coupon for one-time, fixed-free repair after the warranty period and a one-year limited warranty.

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Handle exhaust directs air away from operator

The **RPG 1/2" Drive Super Duty Air Impact Wrench** is powered by a durable and high performing twin hammer mechanism, the company says. The impact wrench features a handle exhaust that conveniently directs air away from the work piece and operator, and also comes with a durable rubber grip that provides slip-free convenience and reduces fatigue. The tool is 6.1" long, weighs 5.95 lbs and delivers a maximum torque of 600 ft-lbs, a free speed of 8,000 rpm and has an average air consumption of 4 cfm.

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Rotating, folding head

The Milwaukee Tool M18 Rover Mounting Flood Light features a 2" spring-loaded clamp and magnets designed to turn any surface into a hanging surface and illuminate whatever is needed. This light's rotating, folding head allows users to direct the light's direction without moving the light itself. The light can produce up to 1,500 lm and offers a run-time of up to 20 hours. This light features a limited lifetime LED warranty and a five-year warranty on the product.

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An entry-level maintenance tool

The Launch Tech Millennium 40 Maintenance Tool is designed to be an entry-level personal car maintenance tool. It meets all OBD-II communication requirements, provides commonly used diagnostic functions and features a color display and silicone keypad. The Millennium 40 can perform basic functions such as read DTCs, clear DTCs, read live data streams, read freeze frame data, read vehicle information and MIL status.

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LANG TOOLS

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GASKET SCRAPERS



855-075: (3/4" Face)



855-100: (1" Face)



855-150: (1-1/2" Face)

855-3ST:
(3-Piece Gasket Scraper Set
3/4" Face, 1" Face, 1-1/2" Face)



855-1000: (1" Face Offset)



855-100P: (1" Face Pull)



855-125: (1-1/4" Face)



855-050: (1/2" Face)

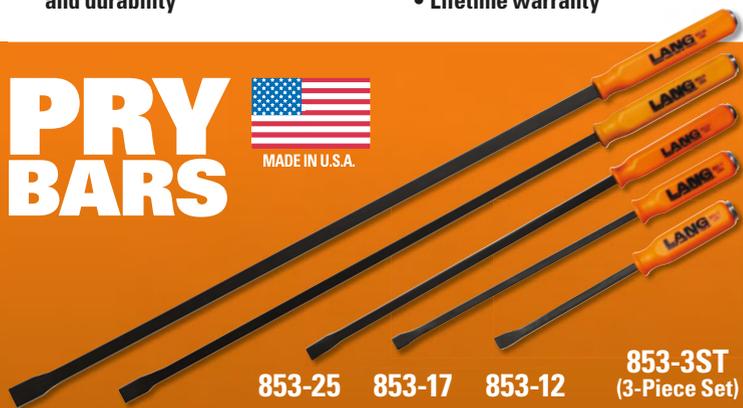


855-100S: (1" Face Stubby)

- Drop forged from high carbon steel
- Black oxide finish for corrosion resistance
- Strike protection hard capped handles are ergonomically designed for comfort, secure grip, and durability

- Bit extends entire length of handle to the strike cap
- Blade face and scraping ends are precision ground
- Lifetime warranty

PRY BARS



853-36 853-31 853-5ST (5-Piece Set) All prybars shown

- Individual sizes include: 12", 17", 25", 31" & 36"
- Strike protection hard capped handles are ergonomically designed for comfort, secure grip, and durability
- Tips are bent for ease of access

- Exceeds ASME standards
- Black oxide finish for corrosion resistance
- High carbon alloy steel is forged and heat treated for strength and durability
- Lifetime warranty

WWW.LANGTOOLS.COM

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NEW PRODUCTS



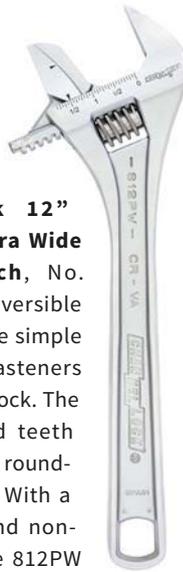
For use in hard-to-reach applications

The **Lisle Actuator Motor Wrench Set**, No. 64100, is a toothless, infinite ratchet with hinged handle design to make it easier to remove and replace fasteners on small, electric HVAC motors. These motors control air flow into the vehicle and are commonly found in confined areas under the vehicle dash, the company says. The ratchet can be flipped to switch from clockwise to counter-clockwise drive. The set includes an 8mm socket and 1/4" square drive adapter for use with 1/4" sockets and bit holders. This set can also be used in other hard-to-reach applications.

Circle 169 on card, or enter at "e-inquiry" on VehicleServicePros.com

Four thread knurl and non-protruding jaws

The **Channellock 12" Reversible Jaw Extra Wide Adjustable Wrench**, No. 812PW, features a reversible jaw designed to make simple work on bolts and fasteners as well as on round stock. The self-gripping angled teeth design grips pipe and rounded fasteners tightly. With a four thread knurl and non-protruding jaws, the 812PW offers improved capacity while improving performance in confined spaces with its minimal head width. The wrench is constructed with chrome vanadium steel for durability, and is made to Channellock specifications in Spain.



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For profiled and irregular surfaces

The **Rupes Abrasive Soft Rolls** are designed for manual sanding for profiled and irregular surfaces, and for small areas that are normally difficult to reach with pneumatic and electric tools. These soft rolls offer homogeneity of sanding on base coats and on coatings that are normally used in car body shops. The soft sponge structure helps ensure an ergonomic and comfortable grip. The abrasive is made of aluminum oxide and helps reduce clogging. Rupes rolls are precut in 114mm by 125mm strips and are packaged in a dispenser box. The strips work best for dry sanding.

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FROZEN/DAMAGED LUG NUT PROBLEMS?

LT1350 LUG RIPPER II

- Don't torch frozen/damaged lug nuts off just drill out the lug nut/stud threads only in 11 minutes or less
- **Available from your local mobile tool dealer**
- 16mm Tungsten steel drill bit with 4 carbide cutters allow for speed and durability
- Includes 4 drill guides - 17mm - 11/16" 21mm - 13/16"
19mm - 3/4" 23mm - 7/8"



Tungsten drill bit w/4 carbide cutters up-close



Drills out female/male threads on lug nut/stud only!



PATENT PENDING

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LT1350-8 WATER BLADDER

- Conveniently portable coolant source
- A must for keeping your Lug Ripper II cool
- Hang it on the vehicle no matter where you are using the two included s-hooks
- Keep coolant flowing when no water source is available
- **ALLOWS FOR ONE MAN OPERATION**
- 6' hose with water control valve



ONE MAN OPERATION



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Measures a variety of currents

The **Electronic Specialties 400 Amp DC/AC Auto-Ranging Clamp Meter** is designed to



measure a variety of currents and applications up to 400 amps, such as fuel pumps, electric motors, alternators, starters, lamps circuits and more. This meter will measure as low as 10 milliamps or as high as 400 amps. It also features a full function, auto-ranging digital multimeter built-in that measures AC or DC volts, resistance, continuity, frequency, duty cycle, capacitance and diodes.

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



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Ranger
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Precision
Combination Brake Station

"The Benchmark of Quality"



Model RL-8500
MSRP \$5,730

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



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R Ranger

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BY BendPak®



MSRP \$3,010

VMX-10120V-603
10 HP / 35 CFM

MSRP \$2,425

VMX-7580V-601
7.5 HP / 26 CFM

MSRP \$2,095

TS-580V-601
5 HP / 17 CFM



- ✓ Unquestionably quiet
- ✓ Rugged cast-iron pump
- ✓ ASME Certified tank
- ✓ Forced air aftercooler
- ✓ Reliable disc valves

BendPak® eliminates one-size-fits-all air power with **three incredible compressors**. Single and three-phase Elite™ Series models are available in 5, 7.5 or 10 HP and 80 or 120 gallon tanks. Each compressor features very little running time and houses an oversized, UL Approved motor that provides **True Horsepower**. No exaggerations. The ASME Certified air tank is sure to keep up with your demands, while 100% cast iron pump blocks feature truly massive pistons for **extremely quiet**, low-RPM operation. This exclusive design extends each unit's lifespan far beyond that of other compressors. Only BendPak offers this much **choice** with this much glorious, quiet-running **power**.

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"e-inquiry" on VehicleServicePros.com

BP BendPak®



Offers more working space in vehicle

The **Gaither Tool E-Cube System Tire Servicing Unit** is a compact single unit specifically for use in the mobile tire service sector. Previously, a typical mobile tire service unit had a minimum of five or six different pieces of tire servicing equipment stacked in a light commercial truck, the company says. This unit offers more working space within the vehicle and eliminates the need for a generator, presenting a green and environmentally friendly alternative to mobile tire servicing.

Circle 176 on card, or enter at “e-inquiry” on VehicleServicePros.com



Jump start gas engines up to 9.6L

The **Rockford Mini Jump Starter**, No. RFD2977, is a portable power source for personal devices including phones, notebooks and laptops and gives users the ability to jump start gas engines up to 9.6L and diesel engines up to 4.0L. This starter is powered by a lithium polymer battery that utilizes quick charge technology and comes with a UL94 VO safety rating that monitors amp draw and heat build-up. The RFD2977 includes a 120V AC wall charger, a USB charging cable and intelligent jumper cables. The unit weighs 2.5 lbs.

Circle 179 on card, or enter at “e-inquiry” on VehicleServicePros.com



Compact size for easy portability

The **Milwaukee Tool M12 Rocket Dual Power Tower Light** delivers a 1,400 lm output, in a compact and light-weight size that allows it to be easily carried. This light is ideal for users who desire a portable lighting solution that can perform in smaller spaces. This light features a rotating light head that can be extended over 5’8” and rotated 210 degrees vertically or pivoted 270 degrees horizontally to light overhead work or minimize shadows when casting light downward.

The light offers an up to 10-hour run-time on one M12 XC 6.0 pack, or can run off AC power through a standard extension cord. This product offers a limited lifetime LED warranty and a five-year warranty on the product.

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Removes shaft-fitted parts

The **Mueller-Kueps Hydraulic Puller System**, No. 650 700, is designed for removing shaft-fitted parts such as bushing, wheels, bearings, gears and pulleys. This tool can be used as a two or three leg puller with a self-locking principle. When the user turns the spindle, the hydraulic power forces the legs to close (or lock). The company offers different extensions and leg lengths to give users a wider range of pulling options. The forged steel legs provide improved stiffness to help produce more pulling forces. With just two fingers, users can manually tighten the tool, and the compact design will deliver eight tons of hydraulic ram, the company says.

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Certified Class 0 oil free air

The **Sullair DSP Series Oil Free Rotary Screw Air Compressors** are ideal for applications requiring completely oil free air, including pharmaceuticals, food and beverage manufacturing, electronics, high technology manufacturing, textile manufacturing, robotics, automotive and paint. Built on Hitachi engineering, the DSP Series is designed to supply oil free air reliably and efficiently. This series is certified under the ISO standard for Class 0 oil free air and offers units ranging from 30 to 300 hp at 125 psig. Key features include Wye-Delta or VSD starter, phase monitor, altitude capable to 9,000’ and oversized motor options available for peak usage needs.

Circle 178 on card, or enter at “e-inquiry” on VehicleServicePros.com



Modular design with strong magnets

The **ToolBox Widget Wrench Organizer** is an independent modular tool organizing system for the toolbox. This tool organizer allows users to add or subtract and choose the exact number of holders they need. The widgets can save up to 30 to 40 percent of space to maximize toolbox drawer room, according to the company. Features include a modular design, strong magnets, missing tool indicators, changeable size labels and a flexible material. Each kit holds 14 wrenches, 1-3/4” tall, and magnets are a 5-lb pull each.

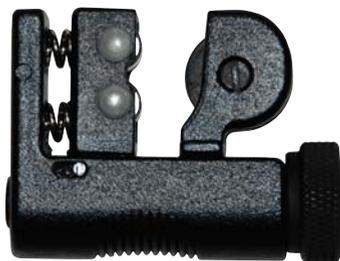
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PTEN
Innovation AWARDS
PEOPLE'S
CHOICE
2018



For the fourth year in a row, we have asked our readers to weigh in on the *PTEN* Innovation Awards. Named the 2018 *PTEN* People's Choice, the following pages feature the top 27 products selected by our readers, per product category, that were originally nominated for the 2018 *PTEN* Innovation Awards.

PTEN magazine will be hosting an official awards ceremony to honor *PTEN* Innovation Awards winners and the *PTEN* People's Choice winners at the AAPEX Show in Las Vegas this October.



Cal-Van Tools
Micro Constant
Tension Tube Cutter

The **Cal-Van Micro Constant Tension Tube Cutter**, No.

159, can be used to cut brake tubing on or off of the vehicle. It will cut tubing

from 1/8" up to 5/8". The small size of the tool allows a technician to access small spaces that are not possible with other cutters.

It also features a pair of springs that allow the user to tighten the cutter onto the tubing and keep the tension from the blade on the surface to be cut. The spring will also prevent the user from damaging or crushing the tubing by over tightening, a common problem in other tube cutters.

CATEGORY: Brake Service

Circle 182 on card, or enter at "e-inquiry" on VehicleServicePros.com

Snap-on Tools

Polartek YF A/C Machine

The **Snap-on Tools Polartek YF A/C Machine**, No. EEAC333, operates 10 percent faster than previous units, according to the company, and works on both standard and hybrid vehicles.

The machine has fully automatic or manual A/C service options, quick filter changes, user-friendly vehicle database upgrades and service archives. The EEAC333 has a 6CFM vacuum pump and a 30-lb refillable R1234yf refrigerant tank. Covered by a two-year warranty, it also features a side pocket for storing the 120" hoses with a cord wrap, 7" graphic touchscreen display, thermal printer, status light and setup software guide.

CATEGORY: Air Conditioning Service

CATEGORY: Air Conditioning Service

Circle 183 on card, or enter at "e-inquiry" on VehicleServicePros.com



Bosch

3823 ESI[truck]
Pro Scan Tool

The **Bosch 3823 ESI[truck] Pro Scan Tool** features

heavy duty vehicle coverage to scan, diagnose, troubleshoot and repair trucks. This tool offers OEM-specific coverage, manual DPF regeneration capabilities, component actuations and actuation tests. The 3823 also offers brake, transmission and trailer ABS coverage. This tool is designed to cover all major heavy duty truck, medium duty truck, engine, transmission and brake system combinations with diagnostics, component actuations, special tests and automatic module identification for Class 6-8 trucks. This tool comes as a 10.1" rugged Windows tablet or as a PC kit.

CATEGORY: Heavy Duty Diagnostics

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

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 & Lube

Circle 185 on card, or enter at "e-inquiry" on VehicleServicePros.com





Portacool
Jetstream 230

The **Portacool Jetstream 230** is designed to offer versatility and cooling comfort to professional, single-person workspaces. The Jetstream 230 features oscillating louvers that delivers cooling to up to 900 sq. ft. with 3,600 cfm, low-water shut-off and Kuul Comfort MicroTech evaporative media to lower the temperature in hard-to-cool industrial and automotive shop areas. The Jetstream 230 stand just over four feet tall.

CATEGORY: Shop Equipment

Circle 186 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools
72" Master Series Roll Cab

The **Snap-on Tools 72"**

Master Series Roll Cab, No. KMP1163, with PowerDrawer and SpeedDrawer features dedicated charging and organizing drawers. The extended cab affords two extra-wide drawers; a 5" drawer for vertical socket storage and 3" drawer for long-handled tools. An integrated PowerDrawer provides a staggered five-outlet, two USB port power strip for charging devices and power tools that can be organized in its adjustable holsters. With a 2" height, the SpeedDrawer has built-in, color-matching adjustable dividers to arrange loose fasteners and tools to keep techs organized. These cabinets are available in a variety of color options, and roll cabs can have bed liner or stainless steel tops and the option of bright chrome or blackout details.

CATEGORY: Tool Storage

Circle 187 on card, or enter at "e-inquiry" on VehicleServicePros.com



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

Circle 188 on card, or enter at "e-inquiry" on VehicleServicePros.com

Redline Detection
ReadySmoke

The **Redline Detection ReadySmoke** is a U.S.A.-made smoke machine designed to find leaks fast. The design is compact and fits securely in a toolbox drawer, the company says. The ReadySmoke is designed to be simple to operate and includes OEM approved vapor producing fluid which lasts hundreds of tests and is free of dyes and contaminants. It also has an easy-fill dipstick style fluid port to refill when needed.

CATEGORY: Leak Detection

Circle 189 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools
Plasma Arc Cutting Machine

The **Snap-on Tools Plasma Arc Cutting Machine**, No. PLASMA20i, offers portability while maintaining power. It's designed to be lightweight and easy-to-carry, making it a fit for small or large projects. The 115 V input power supply can cut up to 1/4" steel and sever up to 3/8". Cut depth can be adjusted to the material's top layer without disturbing the base layer, and its 5-20 A adjustable amperage range minimizes distortion on thinner materials. It also contains an air filter and pressure regulator for compressed air or nitrogen air supply.

CATEGORY: Welding

Circle 190 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools
Flex-Head TechAngle Micro Torque Wrench

The **Snap-on Tools Flex-Head TechAngle Micro Torque Wrench** weigh less than a pound and operates on a AA battery. The slim, steel body and compact flexible head was designed for close-clearance jobs. It packs the same features as larger models, including LED progression measurement for better target torque indication at lower ranges, and LCD, LED, vibration and sound alerts to indicate when desired torque is reached. To check bearing pre-load and drag, this tool measures rolling torque and includes five scale references in ft-lb, in-lb, nm-cm and dNm. These wrenches are available in 1/4" (No. ATECH1FS240) and 3/8" (No. ATECH2CS240).

CATEGORY: Engine Service & Repair

Circle 191 on card, or enter at "e-inquiry" on VehicleServicePros.com





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

Circle 192 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools

750 Lumen Project Light

The Snap-on Tools 750 Lumen Project Light

No. ECPRA072, is a compact, lightweight and ideal for tight spaces. It charges via a USB-C port. The ECPRA072 is a "sequel" to the original project light, No. ECFHKY. The light is made with aircraft-grade aluminum alloy, it has an IP65 rating for exposure to water and dust and withstands multiple drops from over 6m. With a built-in battery fuel gauge and variable dimming, the light lasts up to 10 hours on low and one hour on high when fully charged.

CATEGORY: Lighting

Circle 194 on card, or enter at "e-inquiry" on VehicleServicePros.com

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

Circle 195 on card, or enter at "e-inquiry" on VehicleServicePros.com

Milwaukee Tool

M12 Solder Iron

The Milwaukee Tool M12 Solder Iron

No. 2488-21, is designed to heat quickly and maintain optimized temperature to provide improved productivity for users making soldered connections. The M12 Soldering Iron heats quickly, reaching operational temperature in 18 seconds, minimizing downtime between applications, the company says. This tool uses Redlink Plus Intelligence to monitor the temperature of the tip to prevent overheating or damage to wires. A heat indicator notifies users when the tool is ready to use and safe to store. When turned on, the status LED blinks green to indicate the soldering iron is heating up. When the tool reaches soldering temperature, the light turns solid green. The tip will continue to increase in temperature until it reaches max temperature of 750 degrees F. When the job is complete and the iron is turned off, the LED will remain red until the tool reaches a temperature where it can be stored. The tool also features a three-stop pivoting head.

CATEGORY: Specialty Tools

Circle 193 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Diagnostics

Ethos Edge

The **Snap-on Diagnostics Ethos Edge** is a full function scan tool built with enhanced features. The Ethos Edge delivers codes, live data graphing, functional tests, relearns and adaptations. It provides coverage for nearly 50 domestic, Asian and European vehicle makes dating back to 1983, as well as OEM-specific coverage for over 100 vehicle systems, including TPMS, hybrid power, collision avoidance and steering angle sensor. Time-saving features include auto vehicle ID to read the VIN and One-Touch Code Scan and Clear, which reads all available vehicle systems. The tool also offers special functions, such as brake bleeding, steering angle reset, battery relearn and service light reset. The Steady-Charge battery system in the ETHOS Edge charges the li-ion battery from the vehicle. It boots-up in five seconds and can be operated with touchscreen functionality or the four-way keypad. Software can be upgraded online at any time with ShopStream Connect.

CATEGORY: Scan Tools

Circle 196 on card, or enter at "e-inquiry" on VehicleServicePros.com





Snap-on Tools

Heated Hoodie

The **Snap-on Tools 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

Circle 197 on card, or enter at "e-inquiry" on VehicleServicePros.com



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, Lab Scopes

Circle 198 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools

Swing Arm Tire Changer

The **Snap-on Tools Swing Arm Tire**

Changer, No. EEWH329A, is an ideal

mid-range tire changer for servicing

all OEM assemblies for light trucks,

cars and SUVs. It's ideal for shops that

require a fast turnaround time. Positioned

at "3 o'clock," the mount-dismount head

is designed to be convenient to access and

safely maintains its distance from the rim

edge to minimize contact. The four-jaw, self-

centering jaw clamp includes a nylon-protected grip to avoid tire

damage and is adjustable up to 24" to accommodate tires up to

42". Technicians can fill tires with air while seating beads with the

integrated pneumatic blasting jets of the clamp, and the adjustable

bead breaker can handle taller sidewall tires.

CATEGORY: Tire, Wheel Service

Circle 199 on card, or enter at "e-inquiry" on VehicleServicePros.com

Mitchell 1

SocialCRM LocalSearch

The **Mitchell 1 SocialCRM**

LocalSearch expands on

the standard SocialCRM

shop marketing services

with digital tactics designed

to help auto repair shops build their brand online and boost sell-

ing opportunities. Shops are guided through the process by their

SocialCRM support agent to develop an effective online presence to

attract new customers. Features of LocalSearch include: tracking

and reporting how consumers interact with the website; call track-

ing to evaluate phone traffic from marketing campaigns, monitor

keyword searches and listen to recorded calls; automatically cre-

ated blog posts based on the shop's five-star reviews from verified

customers, adding new keyword-rich content to the website on an

ongoing basis; and the ability to send a personal invitation via text

message to review the shop on Google and Facebook.

CATEGORY: Computers & Software

Circle 200 on card, or enter at "e-inquiry" on VehicleServicePros.com



Carlyle Tools

2-Ton Hybrid Floor Jack

The **Carlyle Tools 2-Ton Hybrid**

Floor Jack, No. 791-6450,

is a professional grade

jack featuring bent aluminum

flange side plates giving this jack

increased strength by reducing the torsion

applied. The load-limiting bypass valves

prevent use beyond capacity and over extension

of ram. Its power unit includes long lasting, high performance seals

and hydraulic fluid. Double pump pistons for fast saddle rise to load

and the rear mounted handle allows for maneuverability.

CATEGORY: Lifts, Jacks & Stands

Circle 201 on card, or enter at "e-inquiry" on VehicleServicePros.com

Snap-on Tools

1/2" Air Impact Wrench Power,

The **Snap-on Tools 1/2" Air Impact**

Wrench Power, No. PT850, delivers 1,190

ft-lbs of bolt breakaway torque, 810 ft-lbs of max

torque and 1,270 bpm. The air impact wrench

weighs 4.2 lbs, features a cushion-grip handle and

a forged 7075 aircraft-grade aluminum nose. The

design results in less vibration and less required grip

pressure and muscle effort, reducing user fatigue, the company says.

The large rear air regulator can be dialed to a specific torque and the

one-handed forward/reverse lever is housed just above the trigger for

easy use.

CATEGORY: Air Tools

Circle 202 on card, or enter at "e-inquiry" on VehicleServicePros.com





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2018



Snap-on Tools

12 V Li-Ion Compact Engine Starter/USB Charger and Light
The **Snap-on Tools 12 V Li-Ion Compact Engine Starter/USB Charger and Light**, No. EEJP201MBK, is a compact, portable engine starter offering safer starting due to reverse polarity, thermal runaway and short-circuit protection. Its internal 12 V Li-Ion battery charges from an AC wall outlet or DC vehicle port then jumps sport, motorcycle and four-eight cylinder vehicles, even below freezing. It features an LED work light with SOS flash mode, USB port for phone charging and is memory saver capable with an optional cable.

CATEGORY: Battery Service Equipment

Circle 203 on card, or enter at "e-inquiry" on VehicleServicePros.com

Snap-on Tools

S4-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

Circle 204 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools

**3/8" Drive Dual 80
Technology Extra Long Flex-
Head Ratchet**

The **Snap-on Tools 3/8" Drive Dual 80**

Technology Extra Long Flex-Head Ratchet, No.

FLLF80, provides over 18" of reach and leverage to tackle everything from stubborn brackets to elusive disc brakes. The flexible head was designed to work in cramped areas and is made in the USA. The Dual 80 Technology ensures seven teeth are in contact with the gear at all times. The 80-tooth gear and dual pawls ensures minimum swing arc to allow for work in tight areas. Dirt and contaminants won't penetrate the sealed head, keeping the ratchet working longer and smoother, the company says.

CATEGORY: Hand Tools

Circle 205 on card, or enter at "e-inquiry" on VehicleServicePros.com

Mitchell 1

ProDemand 1Search Plus

The **Mitchell 1 ProDemand**

1Search Plus feature's

advanced search technol-

ogy 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.

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CATEGORY: Repair Information

Circle 206 on card, or enter at "e-inquiry" on VehicleServicePros.com



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 adap-

tator set together in a 12 and 24 V automo-

tive 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

12 V 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

Circle 207 on card, or enter at "e-inquiry" on VehicleServicePros.com

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 sys-

tem can be safety 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 one year factory warranty. The kit includes four

AAA batteries and a quick start guide.

CATEGORY: Body Shop

Circle 208 on card, or enter at "e-inquiry" on VehicleServicePros.com



ARCTIC COMMANDER

R1234YF & HYBRID RECOVERY / RECYCLE / RECHARGE MACHINES



THE TIME IS NOW FOR R1234yf...

over 84 million cars globally will be using R1234yf by the end of 2019

GM, Chevrolet, Ford, Chrysler and many more manufacturers have converted to R1234yf

only 20% of cars produced in 2019 will have R134a systems



ARE YOU READY?

*data estimated by Chemours



Mastercool[®] Inc.
"World Class Quality"

Circle 209 on card, or enter at "e-inquiry" on VehicleServicePros.com

AAPEX Booth #1071

PHONE: 973-252-9119
WWW.MASTERCOOL.COM

TOOL & EQUIPMENT SHOW GUIDE



As we prepare for AAPEX and SEMA 2018, PTEN offers a sneak peek at some products that will be on-hand at these shows. Check out some of the products that will be on display this year.



Operates no louder than normal conversation

The Legacy Manufacturing Flexzilla Pro Air Compressor with Silencer, 1-Phase, 2-Stage, Vertical, No. FXS10V120V1, is designed to operate quietly in the work space. This compressor features the company's Quiet Technology with Silencer noise suppression and operates at noise levels no louder than a normal conversation. The compressor features a large, low rpm pump and motor, 10 HP motor, 120-gal tank, automatic tank drain, continuous run for big air jobs, Cool Flow Technology and an exclusive six-year parts warranty. This compressor has a max psi of 175.

Circle 210 on card, or enter at "e-inquiry" on VehicleServicePros.com



Three-way loading

The Flexzilla Lock-N-Load Lever Action Grease Gun is designed for fast grease reloading. The Lock-n-Load threadless quick connect barrel lets users grease in half the time compared to other grease guns, according to the company. Slide the Lock-n-Load switch to disengage or reconnect the barrel. Notable features include automatic bleeder, heavy duty die-cast head construction, three-way loading, lightweight aluminum barrel with firm grip knurling, ergonomic t-grip follower handle and more. This grease gun holds up to a 14-oz grease cartridge.

Circle 211 on card, or enter at "e-inquiry" on VehicleServicePros.com



SEMA Booth No. 15223

AAPEX Booth No. 838

Protects against rust and corrosion

The B'laster Pro-Grade Multi-Purpose Grease is a high quality lithium grease designed for long-lasting lubrication and performance. This grease resists water and protects against rust and corrosion in applications where speeds and loads are moderate. This grease can be used in the automotive, marine, construction, landscaping and farm industries. It's also suitable for recreational equipment and a variety of general purpose grease applications in and around the shop.

Circle 212 on card, or enter at "e-inquiry" on VehicleServicePros.com



SEMA Booth No. 53020

Features glowing charger interface

The Gold Eagle Co. STA-BIL Battery Maintainer features a glowing charger interface designed for ease of use, amp auto adjust allowing for use on 6V and 12V batteries and fully automatic multi-stage charging. These batter maintainers are ideal for cars, boats, jet skis, dirt bikes and outdoor power equipment.

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AAPEX Booth No. 3426



Includes "Remote Technician" function

The CanDo C-Pro Scan Tool offers full functionality with bi-directional controls, special test functions and a full suite of activations and service resets. The C-Pro is packaged in an 8" open Android tablet with Bluetooth and Wi-Fi. The tablet is designed to be intuitive and easy to use, and also includes the company's Remote Technician function. This scan tool covers European, Asian and Domestic passenger cars and light trucks.

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AAPEX Booth No. 1364



Designed for testing multiple fluids

The Acustrip Hand Held Refractometer is an all-in-one instrument designed for testing multiple fluids. This tool can be used to test the integrity (concentration) of the battery electrolyte, antifreeze coolant liquids for both ethylene and propylene glycol, windshield cleaning fluids and diesel emission fluid (DEF).

Circle 215 on card, or enter at "e-inquiry" on VehicleServicePros.com

AAPEX Booth No. 4222



Compact to fit in a toolbox

The DeWalt 20V Lithium Simple Start Battery Booster is powerful enough to jump-start most vehicles in minutes, and compact enough to tuck away into the corner of a toolbox, the company says. The 20V booster uses the same battery packs as other DeWalt tools. Users connect a charged 20V lithium battery pack and are able to start cars or recharge portable electronics such as a laptop, cellphone or tablet. This product includes a built-in, high-intensity LED worklight.

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AAPEX Booth No. 5816



Uses OE-compliant OBD relearn procedure

The ATEQ Sync-ID for the VT56 TPMS tool is designed to standardize the way TPMS sensor information is transmitted to the vehicle's ECU using an OE-compliant OBD relearn procedure of all equipped light vehicles. Users can use the OBD relearn procedure (instead of manual or stationary relearn procedures) to reset the TPMS system in less than two minutes with non-intrusive technology using OE-compliant standards, the company says.

SEMA Booth No. 40217

AAPEX Booth No. 1068

Circle 217 on card, or enter at "e-inquiry" on VehicleServicePros.com

Weatherproof reel designed for outdoor use

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, which features a 20' SJTOOW 12/3 cord, 15 amp resettable circuit breaker, molded ball stop and a pigtail that is 60" SJTOOW 12/3 with a lighted male 5-15P outdoor plug; and the 5330MSW, which features a 30' SJTOOW 14/3 cord, 13 amp resettable circuit breaker, molded ball stop and a pigtail that is 60" SJTOOW 14/3 with a lighted male 5-15P outdoor plug. Each includes an "L" style mounting bracket and hardware.

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AAPEX Booth No. 1263

For cleaning and degreasing

The RSC Chemical Solutions Gunk Wipes are an industrial-strength, no-rinse solution for cleaning and degreasing anything from engines and outdoor equipment to vehicle trim, windows and chrome. This two-in-one solution offers an oversized, dual-textured wipe designed to offer no scratching, no rinsing and no residue. The Gunk Wipes are designed with moisture seal packaging and no isopropyl alcohol to keep moisture locked in after opening. These low-VOC, citrus-scented wipes are ideal of use on hard interior and exterior metal, plastic, vinyl and painted surfaces, as well as safely cleaning hands and arms.

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AAPEX Booth No. 4543



Easy-to-read multi-angle display

The Milton Industries 586e PRECISION Digital Inflator Gauge is designed to offer 0.05 percent accuracy and an easy-to-read multi-angle display. A high contrast e-Paper screen makes this gauge readable in any light and at any angle, according to the company. The tool features an ergonomic grip and comes with a deflator button, work light and valve cap holder.



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AAPEX Booth No. 3835

Makes shop management mobile

BOLT ON TECHNOLOGY's Mobile Manager Pro offers shops the ability to make the shop management system mobile. Users can 'write up' customers at their vehicle, helping with accuracy of information, the company says. Users also have immediate access to repair information and vehicle history for a quick and accurate diagnosis. Mobile Manager Pro can help shops generate higher AROs, get more customers back and gain the level of productivity to grow business, according to the company.

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AAPEX Booth No. 3835



A positive approach to battery issues

As battery and charging systems evolve, take the time to consider each vehicle's needs

By Barry Hoyland, Contributing Editor

The technology in today's vehicles is in a constant state of change, and even systems that seem somewhat stable like battery, starting and charging systems are going through a transitional phase. With these changes, the tools required to test and repair them also require transformation.

Let's first take a look at some of the technological changes to the battery. The common battery for decades has been the Flooded Lead Acid Battery. These batteries were designed to provide enough power to the starter and ignition system to start the vehicle. Once the vehicle starts the alternator takes over, supplying enough electrical power to operate the electrical system. These batteries also act as a "cushion" to even out voltage spikes from the charging system and on-off electrical loads.

Additionally, they supply stand-by power for keep-alive memory functions for electronic systems, such as computer memory and clock functions. The advantages of this type of battery are that they are relatively inexpensive when compared to newer designs. They are also reliable, and are suitable for most climates. The disadvantages of these batteries are that they will not last as long as most newer designs, and they are not able to provide enough power in high demand accessory load situations without substantially increasing their size and weight.

High electrical demands of newer vehi-



▲ The "birthday" of the battery can be used as a sales tool. How long does the average battery last in your area? Environmental conditions such as extreme cold or heat affect the average life of a battery.

cles, combined with the desire for lighter weight components and the need to place batteries in passenger or luggage compartments, brought about significant changes in battery technology. Valve Regulated Lead Acid (VRLA) batteries, which are more commonly known as Gel Cell (GEL) or Absorbed Glass Mat (AGM) batteries are designed to provide more stand-by and cranking power than a traditional lead acid battery. Their design allows the battery to release more of its charge at once, so a larger storage capacity can be

put into the same size battery, while its weight can be reduced. Because their design also allows them to basically recirculate gasses produced within the battery, they can be placed inside the vehicle. The disadvantages of this battery design are primarily the cost, and that they do not function as well in more extreme climates, whether hot or cold.

VEHICLES AFFECTED: All

ISSUE: Battery and Charging System Issues

 **TOOLS USED:**

- Vehicle-Specific Information
- Battery/Charging System Test Equipment
- Battery Charger
- DMM
- Scan Tool
- Tools for Testing Parasitic Draw
- Battery Reset Tool



▲ *Small chargers such as this one still have some limited uses, such as slow charging a flooded cell lead acid battery.*

One of the newest battery designs is designated an Enhanced Flooded Battery (EFP). These were introduced to handle the demands of start/stop technology. These systems require the battery to sustain numerous draw-downs of voltage to lower than normal levels, then recharge them quickly.

Along with updated battery designs, vehicle manufacturers are still trying to reduce engine load to improve fuel economy. One way to accomplish this is to improve the charging system to reduce engine load while maintaining system voltage. This tactic makes the alternator more efficient and allows the charging system output to be matched with the specific needs of the battery. A traditional lead acid battery needs a different strategy to maintain the correct voltage and promote a long life than what an AGM battery requires. Vehicle manufacturers have accomplished charging system efficiency by producing smaller, more powerful alternators and regulating their output via the vehicle's onboard computer system.

In order for the computer to control the output of the alternator, many manufacturers have added current and/or battery temperature sensing technology into the system. By design, AGM and Gel Cell batteries require the amperage of the charge be matched to the temperature of the battery. As the battery is charged, the temperature of the battery will increase,

and the charge rate needs to be decreased in order to avoid damaging the battery. This is extremely important to remember while charging batteries in the shop. Modern charging systems utilize algorithms calculating electrical load, temperature and even the age of the battery to determine alternator output.

1 OBTAIN VEHICLE-SPECIFIC INFORMATION

Vehicle-specific information is required in order to do any of the following:

- Charge the battery
- Test the charging system
- Remove and install the battery
- Determine acceptable parasitic drain
- Restore battery communication to all computer modules
- Reset battery life monitor
- Relearn adaptive memories

Obtaining vehicle-specific information is critical at the beginning of the testing process to ensure all of the tests performed are valid. Many vehicles have a specific process to charge the battery to make sure sensitive electronics are not damaged in the process.

You should obtain any relevant TSB's and the specifications for the correct battery. I am sure you have seen a vehicle come into the shop where the customer chose to install a smaller battery to save

money. However, neither the vehicle, nor the charging system can operate correctly if the battery does not have enough capacity. You will also need the minimum and maximum voltages allowed by the charging system, the amperage output of the alternator and the test procedure for testing the charging system.

Not all vehicles will require resetting the battery life monitor, but the point is that there is no longer a one-size-fits-all type of test or repair of a vehicle's battery or charging system.

2 TEST THE BATTERY

Once you have acquired the specifications, the first thing you should do is test the base voltage of the battery and perform a visual inspection of the battery connections. Even the smallest amount of corrosion at a battery terminal will affect the system's ability to function properly.

There was a time when you would connect a battery charger or tester to a vehicle and just crank up the charge rate or the load to test it, but current battery designs require new battery test equipment, test procedures and battery chargers. Even some of the newer versions of traditional lead acid batteries will require differ- ➔

ent testing and charging equipment due to improvements in their design.

Battery Test and Charging Equipment –

In the past, batteries were replaced when they failed and could not be recharged, or when they had a “Birthday,” meaning the battery was nearing its anniversary of the build date on the battery case. “Birthday” batteries were replaced when shops determined the average life of a battery in their

climate and the battery installed on the vehicle was nearing that date, whether it was three, four or five years from its build date.

Most of the newest battery test equipment uses algorithms to calculate whether the battery is “good” or “bad.” In order to do so, the user will need to input information specific to the battery, such as Cold Cranking Amps (CCA) and the type, whether it is a lead acid, Gel, AGM

or EFB battery. These inputs are critical for the tester to calculate the condition of the battery.

In some cases, a test cannot be performed unless the battery is charged to a specific voltage range. If so, you will need to connect a charger compatible with the specific battery and condition the battery to the proper voltage and temperature in order to test it.

Many battery test equipment ➔

BATTERY SERVICE TOOLS



▲ The Bosch BAT 135 battery tester with integrated printer is designed to capture test results for customer records such as presenting the state of health and state of charge percentage of the batteries to ensure optimal efficiency and usage.

Circle 288 on card, or enter at “e-inquiry” on VehicleServicePros.com



▲ 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.

Circle 289 on card, or enter at “e-inquiry” on VehicleServicePros.com



▲ The Clare Automotive Start-Stop Batteries/Systems Line offers a full array of battery service products for Start-Stop systems. The line includes the Booster PAC jump starters, the PRO-LOGIX battery chargers, the BA series testers and the PL2140 6/12V 4A Battery Maintainer.

Circle 290 on card, or enter at “e-inquiry” on VehicleServicePros.com



▲ Many vehicles require a battery reset using a scan tool, or a specialty reset tool like the Batt-Battery Reset Tool from CanDo.

Circle 223 on card, or enter at “e-inquiry” on VehicleServicePros.com



▲ The Associated Equipment Model ESS6008MSK works with each type of battery, but can also provide the stable power necessary when reprogramming computer modules.

Circle 222 on card, or enter at “e-inquiry” on VehicleServicePros.com



▲ The Cal-Van Tools Amp Hound 2, an amp meter for fused circuits, offers real-time readings of current and amps in a fused circuit without removing the fuse.

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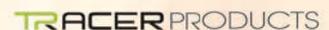
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manufacturers have developed testers that can test the battery without a complete charge. This means technicians can quickly decide whether to “charge and test again” or replace the battery, improving both customer satisfaction and shop efficiency.

Along with the equipment necessary to test the various types of batteries, improved battery charger technology is essential to be able to service each type of battery. New chargers have the ability to charge different types of batteries in the best way to ensure long life and reduce the possibility of over- or under-charging.

When purchasing a battery charger, take into consideration what types of batteries the charger will work with. If you are going to purchase new equipment, you may as well obtain the best tool that will be able to perform the most functions. Many chargers, like the Associated Equipment ESS6008MSK, the OTC 3176 and the Midtronics MCC-070, to name a few, have the ability to not only work with each type of battery, but can also provide the stable power necessary when reprogramming computer modules.

Replacing the Battery –

Even though in most cases, replacing a battery seems relatively straightforward, it is essential to use vehicle-specific information to do the job. For example, if you are replacing the 12V battery in a Hybrid Electric Vehicle (HEV), you will need to follow the process exactly to eliminate the possibility of damage to the vehicle’s electrical system and potential safety hazards.

One thing you should avoid when replacing a HEV 12V battery is using a memory-saving tool. Using this type of tool may allow the capacitors in the system to remain charged and cause the high voltage circuit to continue to be energized.

Check for Parasitic Draw –

It is a good idea to test to see if there is any parasitic draw in the system that could cause the battery to drain over a short period of time.

Testing for a drain can easily be accomplished by using a DMM, or spe-



cially tools like the Cal-Van Amp Hound or Electronic Specialties Fuse Buddy connected in series from the battery cable to the battery. The amp reading - with all accessories off - should be within the vehicle specifications.

Restore Vehicle Communications –

Many vehicles will have specific procedures to restore communications and relearn adaptive strategies in their computer-controlled systems. These may include anything from turning different components on or off in a specific order, a test drive under controlled conditions or bidirectional control with a scan tool. Obtain the specific procedure from your vehicle information database.

Reset Battery Life Monitor –

Some vehicles utilize the computer to calculate the life of the battery based on age, temperature, power loss and resistance, and will adapt the alternator output to the needs to maintain battery condition. If the battery is replaced, the monitor will

▲ *Once a state-of-the-art battery tester, the VAT 45 from Sun/Snap-on can still be used, but newer technology batteries require tools with more capabilities. The good news is that many of the newer testers are much smaller.*

need to be reset. The most common way to do this is with your scan tool, but a much quicker way is to use a tool such as the OTC 3112, or the Can-Do Batt+, which are designed to do this quickly without needing to navigate through your scan tool.

Since charging systems and the processes to test them have made significant advances in the past few years, we will discuss those changes, test procedures and the tools required to test them in more depth in an upcoming article.

In the meantime, if your battery test or charging equipment is more than a few years old, it’s likely time to upgrade. Dated battery testing and charging equipment is nearly obsolete when it comes to working on some of the newest vehicle technology. **PTEN**



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TOP 10 TOOLS



Top tools of a shop owner

This Biddeford, Maine-based shop owner shares his top tools.

By Stefanie Von Rueden, Assistant Editor

TECHNICIAN: Byron Baltazar

LOCATION: Biddeford, Maine

SHOP: Byron's Auto Repair

Byron Baltazar has worked in the automotive industry for 20 years. In 2016, he opened Byron's Auto Repair, a full service, six bay auto repair and tire shop. Byron's is the only Ask Patty Certified Female Friendly shop in Southern Maine, which contributes to his mission of providing fair and honest automotive service to all. The Ask Patty Certified Female Friendly program trains and certifies automotive retail and service centers on how to attract, sell, retain and increase loyalty with women customers. Byron's Auto is also a recognized certified NAPA AutoCare center.



Want to show off YOUR Top 10 Tools?
For more information, email
Editor@VehicleServicePros.com.

- 1 "I couldn't do what I do every day without my great crew," Baltazar says. "It's important to surround yourself with talented, smart and experienced technicians who you can depend on and trust. Each member of my crew has their own specialty or niche. We all know each other's strengths and use that to best serve our customers."
- 2 This software bundle offers shop management, repair information and estimating software in one powerful solution. "Every shop needs a good base for record keeping and scheduling," Baltazar advises. "Mitchell 1 does it all seamlessly."
Circle 226 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 3 This 400 lm COB light provides two to five hours of light with a variable setting. "This little guy only leaves my side to charge, and that is pretty infrequently," Baltazar says. "Extra bright, multiple magnets so you can position it in tight spots, and a super long battery life make this light indispensable."
Circle 227 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 4 "You will find a Sharpie in every toolbox at our shop," Baltazar says. "We are a licensed inspection station and have to hand-write stickers every day, so finding a pen that lasts and resists fading in the sun is necessary."
- 5 This hammer is made from high grade polyurethane and offers a one-piece construction using a bonding process and oven curing. "Long snowy winters mean lots of rusted-on parts," Baltazar notes. "Sometimes, those parts need a little persuading to come loose. This hammer will often get called in to do the trick."
Circle 229 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 6 This set features a tube and die set stabilizing arm, magnetic adapter holder, enlarged die set compression area and improved hydraulics. Baltazar says this set makes flaring brake, fuel and transmission lines quick, easy and precise.
Circle 230 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 7 The PT850 delivers 1,190 ft-lbs of bolt breakaway torque, 810 ft-lbs of max torque and 1,270 bpm. The design results in less vibration and less required grip pressure and muscle effort, reducing user fatigue, the company says. Baltazar adds that he uses this tool every day.
Circle 231 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 8 "These wrenches are perfect for getting leverage in hard-to-reach places," Baltazar says. The set includes sizes from 3/8" to 1".
Circle 232 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 9 "This is just an essential part of every shop," Baltazar says. The OxyFuel 350 Heavy Duty Outfit is suitable for medium to heavy duty fusion welding, braze welding, brazing, heating and hand cutting applications.
Circle 234 on card, or enter at "e-inquiry" on VehicleServicePros.com
- 10 This leak detector offers full featured diagnostic capabilities with no need for nitrogen or UV dye, the company says. "This tool is really easy to use and finds leaks quickly," Baltazar adds. "It's not used every day, but it's a great tool to have for accurate testing and diagnostics."
Circle 235 on card, or enter at "e-inquiry" on VehicleServicePros.com

*Sharpie does not market specifically to automotive.

1
MY CREW



2
MITCHELL 1
TEAMWORKS SE

3
MATCO POCKET DIAL
FLOODLIGHT, MPLFL



4
SHARPIE
CLASSIC
TWIN TIP



5
MATCO 12-LB BLACK
FORMED DEAD BLOW
HAMMER, NO. BFH12A



6
MASTERCool UNIVERSAL
HYDRAULIC FLARING TOOL
SET, NO. 72475



7
SNAP-ON 1/2" AIR IMPACT
WRENCH, NO. PT850



8
CORNWELL 12-PC
CROWFOOT WRENCH
SET, NO. CFW12PFS



9
FIREPOWER OXYFUEL 350
HEAVY DUTY OUTFIT



10
MATCO DIAGNOSTIC
LEAK DETECTOR, NO.
K195-0014B

Induction Innovations Mini-Ductor Venom

The reviewer found this compact tool to be easy and convenient to use compared to traditional methods.

by David Brierley, Managing Editor

Seized fasteners are a common problem for technicians. Whether the fastener is corroded or trapped by a thread lock compound, the most common way to remedy the situation is with heat. Heating the female threaded component – typically a nut – forces the metal to expand and helps break the stuck part free. This is usually achieved by using an acetylene torch to produce a flame.

Using a torch, however, can be problematic. Rather than concentrating the heat to one part, a flame tends to heat the part as well as surrounding materials, causing both to expand and not allowing the fastener to break free. A flame can also inadvertently cause damage when used near heat-sensitive or flammable materials, which then adds time and cost to the initial repair. Plus, an open flame poses a danger to the technician using it.

Eric Moore of DeMary Truck in Columbus, Ohio, found that the Induction Innovations Mini-Ductor Venom helped resolve those issues.

“In a tight spot, or where open flames are a concern, the Mini-Ductor’s induction heating shines,” Moore says.

He also notes that the small tool is much more convenient than the apparatus associated with an acetylene torch.

“[Venom is] certainly easier to navigate

than dragging out the oxy-acetylene torch,” Moore says.

The tool comes in its own carrying case with a selection of adapters and an easy-to-understand user manual. Setup is as easy as plugging the tool into an electrical outlet, Moore says, and using the tool is just as simple.

“Select the adapter, lock the holder ring, place the adapter over the item to be massaged and pull the trigger,” he says.

One feature that Moore found very useful is the ability to bend and shape the adapters to fit different applications.

“Being able to bend the adapters to fit the workspace is definitely a very key feature,” he explains. “The ‘rope’ adapter gives the ability to wrap larger or oddly shaped components.”

The technicians at DeMary Truck used Venom in multiple applications, including shock bolts and nuts, and on exhaust repairs. These types of repairs gave the technicians room to work, and allowed for a side-by-side comparison with other options for removal.

Moore found that the Venom was not quite up to the challenge of removing some of the rusty fasteners he tried it on, though he suggests one of Induction Innovations’ larger induction heating tools would have been better suited to the task. He also found a difference in performance when

PRODUCT DESCRIPTION:

The Induction Innovations Mini-Ductor Venom, No. MDV-777, generates invisible heat to release ferrous and some non-ferrous metals from corrosion and thread lock compounds without the dangers of open flame. This tool will turn a 3/4" nut red-hot in 15 seconds. Venom’s feature set allows users to repair vehicles and equipment faster, safer and more profitably, and to salvage parts normally discarded, according to the company. Venom features a coil twist lock, angled design with trigger, LED usage indicator and a user-controlled LED switch. The kit includes the Mini-Ductor Venom, manual, carrying case and three basic coils. It comes with a two-year limited warranty.

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testing the tool as opposed to using it in real-world applications.

“We found that when we tested it on the bench with a single bolt and nut combination, it got the workpiece red hot within 30 seconds,” he says. “We found ... when used on the vehicle, the surrounding framework or components acted as large heat sinks and the work wouldn’t get near red hot. It still got pretty toasty, and in several situations, it was all that was needed to knock the pieces loose.”

The manufacturer notes that they do not recommend getting the workpiece red hot, and that their suggested practice is to heat the piece for a few seconds (depending on the size and type of metal), try breaking it loose, and only apply additional heat if unsuccessful.

Moore also notes that when used with a lubricant, Venom actually seemed to “expedite the penetration of the penetrant,” and make the fastener more likely to break free.

“Here in the Midwest, we certainly see our share of rusted and corroded fasteners,” he says. “We had some good luck using the Mini-Ductor.” PTEN

Mac Tools Heavy Duty Geared Air Saw

The reviewer found the tool operates smoothly and with precision, increasing efficiency for the user.

by David Brierley, Managing Editor

An air saw is relatively universal in its applications, automotive and otherwise. Eric Moore of DeMary Truck in Columbus, Ohio, found that the Mac Tools Heavy Duty Geared Air Saw works so smoothly it can save technicians time when making repairs.

Moore says the geared air saw arrived in a branded box with “two blades, two set screws and a wrench for the set screws.” He says the setup included installing the blade and air line fitting, then adding a few drops of oil and a few shots of grease to the gears, per the included instructions. Once setup is complete, he adds, the tool is “very easy” to use.

“The trigger is variable so you can control the speed of the blade, and control the tool,” Moore says. “The extended nose of the tool provides for placement of your other hand, giving you a tremendous amount of stability and more control over the tool for following patterns and staying on course.”

In terms of maintenance to keep the tool in proper working order, the manual instructs users to add a drop of oil daily, and to grease the gears once for every 10 hours of use.

Moore and the other technicians at DeMary Truck found the geared air saw to be “impressive” when compared to other air-powered cutting tools.



The tool was used on a wide variety of materials at DeMary Truck, from sheet metal to wooden door panels, to copper pipe and PVC.

“I found it was very easy to control and was pretty well balanced, even using with one hand,” Moore says. “Although, if you squeezed the trigger too much, it could quickly get away from you when using with one hand. We did find that it helped to have the workpiece secured or held by someone else.”

Editor's note: the manufacturer explicitly advises against using this tool one-handed. The tool's manual also warns technicians to use clamps or another practical way to secure and support the workpiece to a stable platform, as holding the work by hand or against the body is unstable and can lead to loss of control.

The only tool updates the technicians at DeMary would like to see offered in the future are the ability to rotate the head as much as 45 or 90 degrees to “open up a whole other world of possibilities and actions where space is an issue,” and tool-less blade change capability.

“They [DeMary technicians] didn't like that there is a high likelihood of losing one or both of the set screws holding the

PRODUCT DESCRIPTION:

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 9.5mm 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.

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blade in place,” Moore says.

These minor suggestions aside, Moore and the technicians at DeMary Truck found the ease of use and superior control make it a beneficial tool to have in the shop.

“Since it worked so smoothly, I would say it did save quite a bit of time over using a cutoff wheel in some situations,” Moore says. “Being able to smoothly navigate the cutting meant less stopping and more efficiency.” **PTEN**

Legacy Manufacturing Flexzilla Pro Air Compressor

The reviewer appreciated the quiet, efficient operation of this compressor.

by *Stefanie Von Rueden, Assistant Editor*

Selecting the right air compressor for the shop is an important choice, because this essential piece of equipment is crucial for running pneumatic tools. Reviewer Scott Atwood of Four Guys Auto in Cedar Rapids, Iowa, appreciated that the Flexzilla Air Compressor was easy to use and operated quietly.

“We use this compressor to supply air for our entire auto repair shop,” Atwood says. “It is extremely efficient and unbelievably quiet.”

This air compressor is easy to use, Atwood explains. Using it is very simple—just turn it on, hook up the necessary tool and it is ready to go.

Setup for the Flexzilla Air Compressor was minimal. Atwood says the Four Guys technicians only needed to hook up the air line and connect power to the unit, and they were able to begin using the unit right away. The air compressor came shipped in a crate with no accessories. There was a manual included that was easy to follow, although Atwood adds that using this compressor is intuitive and straightforward.

Atwood says that while the shop has used other air compressors in the past, they found the Flexzilla Air Compressor is superior.

“It is much more efficient than any compressor we’ve ever had,” he notes, adding that the Flexzilla Air Compressor operates quietly in the workspace and provides a better shop environment.

The only feature that Atwood didn’t like was that the water discharge was on a timer.

“The water discharge is on a timer. It goes off periodically and can be startling if you aren’t paying attention,” he says. Although he found that a minor nuisance, Atwood doesn’t have any suggestions for improving this compressor, or any concerns regarding the use of this equipment in the shop.

“Overall, it is an exceptional piece of equipment, and better than any compressor we’ve ever had,” Atwood says. **PTEN**

PRODUCT DESCRIPTION:

Legacy Manufacturing Flexzilla Pro Air Compressors are designed to operate quietly in the work space. These compressors feature the company’s Quiet Technology with Silencer noise suppression and operate at noise levels no louder than a normal conversation. The Pro Air Compressors feature large, low rpm pumps and motors, single-phase power on models up to 10 HP, automatic tank drain, continuous run for big air jobs, Cool Flow Technology and an exclusive six-year parts warranty.

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Launch Tech USA X431 HD Heavy Duty Scan Tool

The reviewer says this scan tool offers diagnostic benefits in the field as well as in the shop.

by Sara Scullin, Editor

Barry Hoyland, owner of Vehicle Service Solutions of California, says the Launch Tech USA X431 HD Heavy Duty Scan Tool saved him time and money. With the single tool, Hoyland was able to navigate component modules and multiple systems on various vehicles, from passenger cars to Class 8 trucks.

In his shop, Hoyland services all types of vehicle, but for this review he used the X431 Heavy Duty Scan Tool to perform module scans on a Freightliner, a Kenworth and a Peterbilt; DPF status and manual regen on a Freightliner, and to diagnose low power issues on a Freightliner with a Detroit engine and a Peterbilt with a Cummins engine.

“One feature I found interesting was this tool was able to communicate with a Dodge light duty truck with a Cummins engine without a communication conflict. My experience has shown difficulties in many scan tools communicating properly,” says Hoyland. He notes, “I only used this on one Dodge/Cummins application, so this may not be a consistent trait.”

To begin the review, Hoyland had to unpack the adapters, download the software and register the tool onto either a new or existing Launch Tech tablet. The tool came in a blow-molded case, along with all of the cables necessary to connect to most HD truck and trailer applications. Hoyland reports the add-on was very



easy to use, with an impressively quick and intuitive navigation from screen to screen.

“The tool has the ability to either capture system information from the vehicle automatically by performing a complete system scan looking for modules, or quick access by the user selecting the individual modules to scan (engine, transmission, brakes, etc. only),” Hoyland says.

He liked that he could perform quick scans on specific modules rather than wait for the tool to scan all modules on the vehicle.

He also appreciated the ability to select either the vehicle, or engine-specific information, and liked having a link to vehicle service information on the tool to quickly access information.

The number one benefit for Hoyland was the tool’s Tech-to-Tech feature.

“This feature allows a technician with the same series of tool to log into a vehicle in the field and perform all functions of the scan tool,” Hoyland says. “This [means] repair shops or fleet centers can keep their diagnostic technician in the shop and send field service personnel into the field with a tool to connect to the

vehicle. This allows a shop to maximize their resources and could also be used as a teaching tool.”

Hoyland says the ease of use, the amount of information available and the fast boot-up time of the tool is “outstanding.” He adds the bidirectional capabilities are very good, and the navigation to obtain specific module information is easy to use. **PTEN**

PRODUCT DESCRIPTION:

The Launch X431 Heavy Duty Truck Add-On Module turns the company’s Pad II into a full-function heavy duty truck scan tool. The module provides access to Class 4 through Class 8 vehicles, and communicates via Bluetooth, or can be hard-wired to the vehicle. Users can download the HD Truck app to work on 12V or 24V systems. The module offers extensive model coverage and special functions, including engine, transmission, ABS and auxiliary from manufacturers such as Wabco, Bendix and Allison. The module works on CAT, Cummins, Detroit, Freightliner, Fuso, Hino, International, Isuzu, Kenworth, Peterbilt, Sterling and Volvo.

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CUSTOMIZABLE AND FREE-STANDING

The **Sonic Modular Storage System Plus (MSS+)** is designed to be customizable and free-standing with tools. The company says the concept, creation and realization of the MSS+ reflects Sonic's commitment to pioneering modular storage systems.

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PADDED BOTTOM SHELF FOR LARGE ITEMS

The **Monster 4-Drawer Cart**, No. MST3304XORNG, is designed with larger top storage. This heavy duty cart features bumpers, has a 500-lb capacity and is made from 1mm solid all-steel construction. The cart has four 5" by 2" heavy duty swivel casters and a side handle for maneuverability. Two locking and two non-locking wheels help ensure safety in the shop. The lid includes two gas struts for easy opening and closing, and the padded bottom shelf creates an extra storage option for large items.

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STACK AND LOCK MULTIPLE BOXES TOGETHER

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 tool boxes, two organizers and three storage totes.



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CAN BE USED ON MOHAWK 10,000- TO 18,000-LB TWO POST LIFTS

Mohawk Lifts' Turf Kit with Dual Trough Accessory offers versatility to shops and facilities that need to surface cars, trucks and turf equipment without dedicating a service bay and lift to just one type of equipment. The turf kit has a 6,000-lb capacity and can be used on Mohawk 10,000- to 18,000-lb two-post lifts, including lift models with optional three-stage arms.

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COMBINES MEASUREMENT AND ALIGNMENT

The **Chief Meridian Alignment System** can measure and document collision damage, monitor repairs in real-time and perform full wheel alignments. The Meridian offers a live mapping system featuring a Galileo laser scanner, allowing technicians to measure up to 45 individual points at the same time on a vehicle mounted on a frame rack or bench for quick estimating. This system is compatible with most lifts and frame racks, the company says. Combining measurement with alignment can help improve customer satisfaction by providing a one-stop service that streamlines communication on repair needs and timing, the company says.

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HIGH SECURITY TUBULAR LOCKING SYSTEM

The **Homak 41" H2Pro Top Chest** features an HMC high security tubular locking system, full-length aluminum drawer pulls, drawer liners and a top mat. The chest also offers replaceable ball-bearing drawer slides, full extension gas struts and a power cord access hole. The 41" H2Pro Top Chest is available in black, blue or red.

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OFFERS A LOW PROFILE OF 4.6"

The **Herkules L1200 Vehicle Lift** is designed to place vehicles at a more comfortable working level. The adjustable arms swing and slide to connect with the manufacturer's recommended lifting points. The L1200 offers a low profile of 4.6", a 44" by 67" platform that lifts the vehicle by the frame, a 6,000-lb lift capacity and a 36" raised height. Six solid-steel safety stops provide numerous working heights, and eight rubber blocks eliminate metal-to-metal contact. With an easy-to-use foot controller with 12' air hose, the L1200 can be surface mounted or recessed.

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IDEAL FOR SMALL SPACES

The **CEMB-USA EZ1 Wheel Balancer** mounts on swing arm tire changers with round columns to deliver hand-spin, manual data entry with a five second cycle time. This balancer handles steel and custom wheels with direct location data entry, and allows users to choose from clip-on tape weight and hidden spoke modes up to 30" rim diameter. The EZ1 is ideal for garages, small spaces, racers and mobile transport use. The unit comes fully assembled and includes a 12V Lithium quick charge battery with charger.

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NEW 3-ROW SOCKET TRAYS

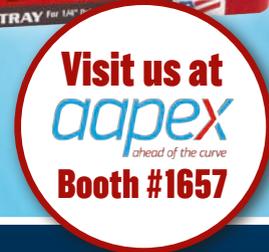
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Hansen has the way to straighten out toolbox clutter and chaos. Hansen 3-row socket trays are available in 3/8" and 1/4" Drive SAE and Metric to hold regular, semi-deep and deep sockets all on one tray. SAE trays are red, Metric trays are gray.



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COOLS LARGE OPEN SPACES

The **Portacool Jetstream PACJS260 Evaporative Cooler** combines airflow with Kuul Comfort evaporative media that is made in the USA exclusively for Portacool products. This series helps improve comfort and cool larger commercial and open spaces from 700 to 5,625 sq. ft.

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KEEPS LIFT ARMS IN BALANCE

The **AMGO Hydraulics No Cable Synchronization System**, No. HS-10, is manufactured to high quality standards using critical materials and parts choosing, with advanced features and innovative technology, the company says. This system helps keep the balance of the two lift arms in unison while using the lift.

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INTEGRATED POWER AND DATA

The **Professional Series from Champion Tool Storage** was designed from the ground-up to work with today's dealer service requirements and technicians, according to the company. The Work Centers have modular features that let technicians mix and match products and expand as needed for future growth. Other features include: free configuration layout, integrated power and data, custom colors, heavy gauge steel construction, stainless steel work tops and a choice of bases.

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DOUBLE DUTY AIR HAMMER

LT855-AH-SK TEXAS TWISTER™ - BIDIRECTIONAL AIR HAMMER STARTER KIT

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HEAVY DUTY STEEL CONSTRUCTION

The **Beta Tools C35 Modular Tool Storage Cabinet** is stationary and can stand alone or be 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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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 identification. The trays fit 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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FEATURES AUTO DATA ENTRY

The **Coats 6450-3D Heavy Duty Truck Wheel Balancer** offers all the same features of the company's 6450 2D, but also includes auto data entry for all three parameters with one touch. The balancer's auto indexing automatically moves the wheel to the required weight positions, and the stop and lock feature locks the spindles in place for accurate weight placement.

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MOVE FROM BAY-TO-BAY

The **Maha USA FBH 6500 Mobile 2-Post Lift** is a battery-operated, mobile automotive lift designed to move from bay-to-bay, indoors or outdoors. The FBH 6500 raises vehicles weighing up to 6,500 lbs to a lifting height of 6.4'. The FBH 6500 requires minimal maintenance and no periodic adjustments, the company says. Special adapters are available to allow lifting of various vehicle configurations.

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THREE-POINT LOCKING SYSTEM

The **Strong Hold Plus Single Shift Cabinets** feature one compartment secured with a three-point locking system. The cabinets are available in five standard sizes. The cabinets are heavy duty, with 12-gauge steel, and precision cut with lasers, formed, welded, steam-cleaned and coated. The products ship assembled and ready to use, and include a 99-year warranty.

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MEASURES TOTAL TOE AND CAMBER IN SECONDS

The **Hunter Engineering Quick Check Drive** is a touchless alignment inspection system that measures total toe and camber in seconds, with no human involvement necessary, the company says. Each Quick Check Drive is equipped with eight cameras and 32 laser sensors that scan the vehicle's tires as they drive past, helping to eliminate operator labor and vehicle stopping.

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RELIABLE PERFORMANCE IN DEMANDING ENVIRONMENTS

The **JET Tools 60- and 80-gal air compressors** offer reliable performance in the most demanding shop environments, according to the company. Each compressor has a built-in safety valve, high-pressure switch and a fully enclosed metal belt guard. The JET single-stage 60-gal compressor has a maximum air pressure of 135 psi. The three models in JET's two-stage, 80-gal compressor line have a maximum air pressure rating of 175 psi. Each compressor is CSA certified and covered by a three-year warranty.

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FEATURES 120V POWER STRIP

The **Cornwell Pro Series Neon Green 6 Drawer Cart**, No. CTSPS600UNG, features four 4" drawers, one 6" drawer and one 8" drawer. The drawers feature 120-lb ball bearing slides, with double slides on the 6" and 8" drawers. A drawer liner kit is provided. This cart offers plastic corner bumpers on all four sides, a handle with molded grip and a 120V power strip with USB charging capability mounted at a 45 degree angle. A cord wrap is supplied to mount on the rear of the unit for improved mobility. There are cutouts on the sides for large tool storage. This tool cart is made in the U.S.A. with globally sourced components.

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KEEP SMALL PARTS ORGANIZED

The **JohnDow Storage Cabinets** are designed to house up to 12 different assortments of service parts. The compact cabinet measures 14-1/4" wide, 13" deep and 46" high with adjustable drawer tabs to keep assortment boxes secure. It incorporates heavy duty steel construction with a durable black powdercoat finish. The company offers 18 different assortments for key service categories. Each assortment comes in a durable plastic case that keeps parts organized. A detailed lid insert identifies each fitting with a photo of the part, size and description. Reorder part numbers, quantities and UPC codes are also shown.

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SPLIT TOP SURFACE ALLOWS FULL ACCESS TO BULK TOOL COMPARTMENT

The **Matco Tools Sliding Top Cart** features a split top surface allowing technicians full access to the bulk tool compartment, without removing items from the work surface. The sliding tops open horizontally leaving room to work in more confined areas, such as under a vehicle on a lift or stands. With a 1,200-lb overall capacity and unit dimensions of 37.12" wide by 20" deep by 43.2" high, these carts feature five full-extension drawers with three double-slide deep drawers for storage space. The Sliding Top Cart is available in three colors: black (No. STC5D-BK), blue (No. STC5D-BL) and red (No. STC5D-R).

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OPERATES QUIETLY IN THE WORKSPACE

The **Legacy Manufacturing Flexzilla Air Compressor with Silencer**, 460 Volt, 3-Phase, 2-Stage, Vertical, No. FXS10V120V3-460, is designed to operate quietly in the work space. This compressor features the company's Quiet Technology with Silencer noise suppression and operates at noise levels no louder than a normal conversation. The compressor features a large, low rpm pump and motor, 10 HP motor, 120-gal tank, automatic tank drain, continuous run for big air jobs, Cool Flow Technology and an exclusive six-year parts warranty. This compressor has a max psi of 175.

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FEATURES DUAL FILTER SYSTEM

The **Zep Heavy Duty Aqueous Parts Washer**, No. S82701, is equipped with a dual filter system, flow through brush and spigot. This unit can be used as a stationary parts washer or used with an optional rolling cart. The washer features a low fluid level shut-off switch that activates automatically when solution level falls below a safe level GFI protection. The double-wall construction assures stability under loads of up to 120 lbs, and the tank holds 45 gallons of degreasing solution. This unit includes all parts necessary to use.



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COMES FULLY ASSEMBLED

The **Sunex Tools Professional Full Drawer Service Cart**, No. 8057, comes fully assembled. Each of the six drawers features fully extending roller bearing sliders and EVA foam liners for secure tool storage during transport. The cart has gas shocks to raise and support the locking lid and heavy duty casters (two locking). The 8057 service cart is available in red, orange, purple, green, silver, black and matte black.



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VARIETY OF COLORS, CONFIGURATIONS AND DRAWER SIZES

The **Snap-on Centriq Tool Storage Series** is engineered and built in the U.S.A. to advanced standards and is fully customizable. Centriq cabinets offer standing seam construction, case corner gussets, Lock 'N roll latching, full-width pulls and fully-welded drawers with ball-bearing slides that support up to 454 lbs per drawer. Centriq cabinets are installed on an 11-gauge Palley Jack Base or can be fitted with adjustable legs or a forklift base. The units are 30" wide and 29" deep with four different height options, and come in a variety of colors, configurations and storage sizes to accommodate different storage needs.



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MINIMIZES UNNECESSARY PROCEDURES

The **Hofmann Megaplan Megaline Ssence 500 HD Wheel Alignment** software is designed to make life as easy as possible for the operator and minimize unnecessary procedures, the company says. The Ssence offers a VIN code scanner and an automatic camera boom height.



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MONITOR FLUID DISPERSAL

The **Graco Pulse Fluid Management System** is designed to provide the insight, control and analytics needed to simplify decisions and drive profitability. The Pulse System allows managers to know what type of fluid was used, how much, where and when it was dispensed, and who was performing the work. Users can capture previously lost or unassigned costs and uncover hidden profits, tracking bulk fluid activities and monitoring inventory from the storage tanks to dispenses. This system provides transparency from the service bay to the back office, allowing decision makers to know what's happening at any given moment.



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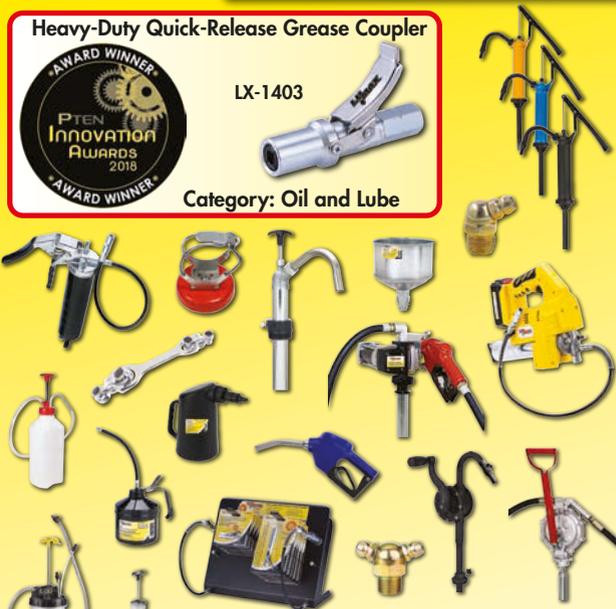




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ADAPTER KITS FOR HEAVY DUTY IN-GROUND LIFTS

Stertil-Koni Heavy Duty Inground Lift Adapter Kits are tailored for the company's 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. One kit is expressly manufactured for transit buses and another is suitable for both trucks and school buses. Stertil-Koni's school bus and truck adapters are constructed to be wider and taller, while transit bus adapters are flatter and broader. The adapters are optimized for both new vehicles with the latest axles and older vehicles that have been on the road for some time.

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INFRARED TRANSMISSION AMONG MEASURING HEADS

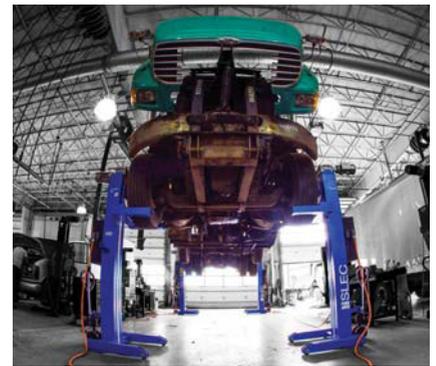
The **Rotary R5000HD Commercial Truck Alignment System** is designed to make aligning heavy duty trucks, buses and other vehicles easy. The R5000HD alignment system contacts the wheel at the bolt circle instead of the outer edge, helping to improve accuracy. The system also electronically measures axle offset on every alignment and notifies the technician when there is a problem. The R5000HD features infrared transmission among measuring heads, and each measuring head has controls to allow techs to control the alignment process without having to return to the console, which can be located up to 59' away. The control unit houses the computer, printer, monitor and accessories, and allows for recharging of the measuring head batteries.

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IDEAL FOR LIGHT, MEDIUM AND HEAVY DUTY TRUCKS

SLEC mobile lifts are ideal for the maintenance of light, medium and heavy duty trucks. With unobstructed under-vehicle access and the ability to take the lifts to the vehicle, they provide a more user friendly and flexible alternative to fixed systems, according to the company. The self-locking characteristic of the SLEC lift helps ensure the vehicle will remain in the air. Backed up by after-sales support, SLEC technicians are on-hand to take care of any unforeseen maintenance issues. The company also offers a range of preventative maintenance agreements.

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| Terri Pettit, Director, Audience Development | September 12, 2018 | |

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TOOL REVIEW

WILTON COLD FRONT 3037 ATOMIZED COOLING FAN

The Wilton Cold Front 3037 Atomized Cooling Fan applies patented Flow Blurring technology, which uses low air pressure and water to produce micro-droplets that evaporate instantly and create cooler air covering 3,161 sq. ft. The Cold Front 3037 runs for more than 10 hours on a single fill-up of its 19-gal water tank. The single-speed cooling fan operates on standard 120V AC/60 Hz current and has independent fan and cooling controls. Read the full review at:

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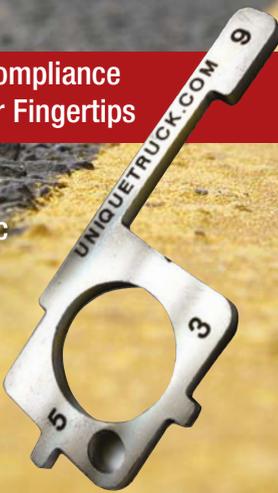


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One of a kind

This 8' tall setup is customized from top to bottom.

by Vesna Brajkovic, Assistant Editor

Chris Barnes customized his 76" wide, 25" deep Matco setup, from the drawer configuration to its lighting display. Using Matco's Toolbox Configurator, an online option which lets users build their own toolbox feature-by-feature, Barnes landed on the perfect one.

The complete setup consists of the main box, a hutch and a top cabinet. While the main box is technically a three-bay box, it is configured like a two-bay box, meaning Barnes designed the left-side drawers to be long in order to hold more tools.

"If I have a lot of one thing, like pliers, I would have had like three plier drawers [if he kept them standard size]; but with the big drawers I have now, I can put them all in one drawer," Barnes explains.

And this way, Barnes keeps most of his drawers, which are "slammed full" of tools, organized by one single tool category. Everyday items, like wrenches and sockets, are kept in a separate tool cart.

Barnes' box is about 8' high including his top cabinet, which holds lesser used tools and needs to be accessed with a step ladder.

"Before I came to the shop I'm at now, I worked in a shop that was overly crowded," Barnes says of his decision to build tall. "I wanted to get a locker, but I didn't have room in the corner I was in for a side locker. So, at the time I could only go up."

His main hutch is clear of tools and products, and mostly used for display. Or, as Barnes likes to say, "my little show-off area."

And he didn't stop his customization efforts with just the box, or it's uncommon paint job ("root beer brown" with



OWNER:

Chris Barnes

Black Cat Auto and Diesel
Pacolet, South Carolina

textured, matte black trim). Under his hutch is recessed blue neon lighting, and Barnes outlined the box with additional blue LED strip lights he wired in. The LED lights can change color with a remote control.

Both the hutch and the top cabinet have five power outlets and two built-in USB ports.

Barnes pretty much has his box right

▲ Barnes' entire setup is 76" wide, 25" deep and about 8' tall.

where he wants it. He even added a matching mini-fridge decked out with a Matco Tools logo.

"I'll probably leave it alone as it is because I've already got like \$20,000 in it," Barnes laughs. "And just in the box is like \$20,000. I've got a lot more in tools. I'll probably stop before my wife kills me." PTEN

Want to see more photos of Barnes' box?
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