VehicleServicePros.com, official website of PTEN

Professional Tool 6 Equipment News

The Independent Tool Authority

\$15.00 • April 2019 Volume 30, Number 3





MOBILE GIOTTO by AutoEnginuity

Details on the cover products and other new tools Page 10



Easy to replace the blade



▲ Offers 360-degree adjustable side handle



▲ Features 260-lb capacity ball bearing slides

Aftermarket Profile:

A statistical snapshot of purchasing plans and top revenue opportunities in the coming year. Page 30

Category Spotlight:

Product information and user tips on A/C Equipment. Page 67

Tech Routing List 🛛 ____ 🗆 🗆 💷 🗆 ____



PERFECTING PUSH-BUTTON PUMP PLIERS SINCE 1984

KNIPEX – Tools Designed With Your Hand in Mind

35 years ago, in 1984, KNIPEX released the first design of the now famous Cobra[®] push-button pump pliers—able to grip any fastener shape *tighter* and stay *locked on* until you let it go! Over the years, the Cobra Pliers have evolved into what they are today—the finest pump pliers you can buy. With more than 23 products ranging in 7 sizes from 5" - 22" and 4 handle styles, we have the perfect tool for any application. When it comes to function, feel and future reliability, professionals prefer the *original* Cobras.

Lock into the legacy—KNIPEX locking push-button pliers.

See a video of this tool: https://goo.gl/wia8M





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Millennium Master "Like a Rocket Fueled Millennium 90 Pro"

Features: TPMS Relearn Database, Injector Coding and Immobilizer Resets along with WIFI Updates and Touch Screen.

9 Total Resets:

- TPMS Reset with Relearn Database
- Injector Coding
- Immobilizer
- Battery Reset
- EPB
- SAS Reset
- DPF Regen
- Oil Reset
- Brake Bleed

- 5" color Touch Screen and thumb Pad Navigation
- Based on Android[™] OS
- WIFI automatic updates-No more USB Cable to Laptop
- Full Coverage-Domestic, Asia, European Vehicles (1996 and newer OBDII)
- Support Auto VIN Detection and connection
- Diagnostic report and share via email

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74 BIG-TIME BOXES

Owner: Mike Reynolds Shop: Mobile Automotive Service Solutions Location: Charleston, S.C.

ON OUR COVER



IN THE NEXT ISSUE

Check out the collection of Diagnostic Test Equipment in Category Spotlight.

ADAS CALIBRATION AUTEL NEW COVERAGE SOFTWARE / TARGETS

SUBARU Lane Keep



NOW ONLINE AT VEHICLESERVICEPROS

NEWS



VISION HI-TECH TRAINING & EXPO PROVIDES TRAINING AND RESOURCES FOR TECHNICIANS Over 500 first-time attendees, as well as future technicians and aspiring shop owners, ascended on Overland Park,

Kansas, for this in-depth week of training. To read more, visit: VehicleServicePros.com/21073902

TECH TIP



With technicians reporting corroded terminals on vehicles less than a year old, it's imperative for any shop to have the tools necessary to service electrical contacts. To read more, visit: VehicleServicePros.com/21073908

GUEST BLOG



Keeping tools organized is imperative to technician efficiency. Tool organizers, such as a pegboard cabinet, can help keep tools organized and make it more apparent when a tool has not been put back in its proper place at the end of the work day. To read more, visit: VehicleServicePros.com/21073914

VIDEO



KNIPEX has stretched their CoBolt Mini Bolt Cutters to create a pair of bolt cutters 10 inches in length. The KNIPEX XL CoBolt Bolt Cutters lower the hand force required for cutting different materials because of the high transmission ratio.

To watch the video demonstration, visit: VehicleServicePros.com/21070906



FEATURED PRODUCTS



M12 FUEL 3" Compact Cut Off Tool Milwaukee Electric Tool VehicleServicePros.com/ 21072473



Bumper Rollers Polyvance VehicleServicePros.com/ 21072461



All-Aluminum 2-Ton Service Jack Carlyle Tools VehicleServicePros.com/ 21072452



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Up to the challenge

Succeeding in today's business means investing in the right mix of talent, training and tools.

By Sara Scullin, Editor Sara@VehicleServicePros.com

B usiness is looking good. Information within this year's 2018 *PTEN* Purchasing Study revealed that most of you (91 percent) anticipate your shop's revenue to be the same or higher than last year. That's excellent news! Now let's dive a little deeper. How will revenue rise? What type of repairs will contribute to the ongoing success of your business?

The clues are in the numbers, found in this year's fourth annual Aftermarket Profile. Here's a brief look at the findings:

I was not surprised to read that 89 percent of the 485 shop owners and technicians we surveyed in the purchasing study said their business offers electrical and diagnostic repairs – by far the largest repair type of all categories (followed by brake and under hood service). Not only that, but these shops expect to perform more diagnostic services, maintenance services and electrical work than any other work in the coming year. There's a big chunk of your anticipated revenue.

The knowledge of electrical systems in vehicles, and the complex tools used to service them, is quickly becoming required knowledge for all technicians, even in the sleepiest of shops. Perhaps it's no surprise that this is the same area where 70 percent shop owners and technicians feel more training is needed. As long as vehicle manufacturers continue to add more sensors and systems to vehicles, technicians will need to have knowledge of each system and ensure each system is properly restored post-repair.

Another facet of electrical and diagnostic work is learning how to use electrical equipment (such as electrical testing tools, multimeters and those frequently updated scan tools) to aid in vehicle diagnosis.

How are these skills learned - or improved?

In a previous editor's column I talked about how these days, as a shop owner or technician, you need to be open to learning all the time. That's just the nature of this industry as both vehicles and tools continue to pack in new features. It makes sense that this year's aftermarket profile results show that many of you (64 percent) reference manufacturer or organization websites to stay on top of training information. You also find trade magazines, instructional videos and manuals helpful when it comes to keeping up with the times.

While the numbers in this year's profile show business is on the rise, it's by no means easy money. Rather, it's a matter of investing in the right technicians, tools and knowledge to meet customer demand.

Turn to page 30 for a look at shop expectations and purchase plans for all repair types and product categories. **PTEN**

In the next twelve months most of you plan to purchase the following tools and equipment: • Hand Tools - 85% • Specialty tools - 76% • Cordless power tools - 76% • Electrical tools and equipment - 75%

A little over half of you (58%) plan to purchase scan tools in the next year.



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FEATURED NEW PRODUCTS

Offers 360-degree adjustable side handle

The **Ingersoll Rand 1**" **Pistol Grip Impact Wrench**, No. 2175MAX, is designed to be durable and lightweight for jobs that require extreme torque. This impact wrench offers more than 2,000 ftlbs of reverse torque and weighs less than 18 lbs. The steel core, hammer case and steel wear plate are designed to improve durability, reduce downtime and protect against wear during extreme use. Notable features include: 360-degree adjustable side handle with ergonomic grip; highly engineered motor design that maintains power during heavy duty applications; chemical-resistant composite housing and steel nose; swivel hose connection keeps hose from getting tangled; and power regulator to manage tool speed. This product is also available with a 6" anvil to increase accessibility for work in deep tire wells.

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Features 260-lb capacity ball bearing slides

The **Cornwell Quality Tools Platinum Series Toolbox** is available in an 84" double bank cabinet. The toolbox features cage frame construction with six 6" by 2" spring-loaded heavy duty casters for maximum support. The drawers are supported by 260-lb capacity ball bearing slides, and larger drawers have double slides to ensure optimal conditions under load conditions up to 450 lbs. Each drawer features a 4mm thick non-slip liner and a full-length, polished drawer pull with decorative end caps. The toolbox includes two electric power strips, each with five standard outlets and two USB outlets: one positioned inside a larger drawer with storage capacity for battery powered tools, and a reposition-



able stainless steel housing power strip unit at the back of the cabinet's work surface. The top of the cabinet includes a heavy duty stainless steel work surface. Additional features include an electronic locking system, extruded vertical trim and tubular end handles polished to match the drawer pulls.

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Easy blade replacement

The **Mueller-Kueps Quick-Lock Razor Scraper** is designed to reduce the time it takes to remove and replace the blade. Instead of having to twist out the screw, users can quickly slide back the knob to release the blade, then slide the knob back up to secure the blade again. A two-component handle with rubber coating provides a secure grip. The scraper comes with five steel and five plastic blades. The plastic blades can be used on paint, while the steel blades can be used to remove adhesives and more from a variety of surfaces such as steel, glass and more. **Circle 22 on card, or enter at "e-inquiry" on VehicleServicePros.com** icking 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.



The AutoEnginuity Mobile Giotto is a full-featured, OE-level scan tool on Apple iOS and Android platforms, allowing technicians to use their mobile phone or tablet to fix vehicles. The Giotto mobile platform supports OE-level coverage for 58 car makers. Coverage includes DTCs, special functions or system tests, actuations, live data and report outputting. Giotto mobile version offers gesture inputs like swiping left and right to change tabs, and pinch to zoom in and out. The mobile version also allows for outputting reports to XML, PDF, SMS/ MMS messaging, email or JSON to a secure serve. The compact size of the Wi-Fi VCI enables technicians to carry the scan tool in their pocket.

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Hinged design fits over heater hose

The **Lisle Heater Hose Disconnect GM 3/4**", No. 39190, is designed to separate quick connect fittings on 3/4" heater lines on GM vehicles. The hinged design allows the tool to slip over the heater hose, even in tight spaces, the company says. Slide the tool into the connector to release the line. The tool is made of aluminum for strength and durability.

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Delivers up to 25 percent more torque

The Snap-on 7-pc 12-point Metric Zero degree Offset Short Handle Ratcheting Combination Wrench Set, No. OXKRM707, includes seven ratcheting combination wrenches (sizes 8 to 14 mm) with Snap-on Dual 80 technology to minimize swing arc when working in restricted spaces. The patented 8-tooth ratcheting mechanism delivers up to 25 percent more torque while providing up to 95 percent more cycle. The zero degree offset handle transfers more power in less lateral space, the company says. These wrenches are precision forged and heat-treated for strength and durability. A nickel-chrome finish helps protect against corrosion and makes it easier to wipe the wrenches clean.

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Works on a variety of European vehicles

The **Cal-Van Tools Euro Stretch Belt Installation Tool**, No. 735, is designed to make installing stretch belts quicker and easier. With multiple large adjustable pins, this tool is designed to work on a variety of European brand vehicles. The design of this tool helps increase the ease of installation and prevents damage to the belt and pulley, the vehicle says. The lightweight and compact design makes this tool suitable for working in tight areas.

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Provides up to 35 hours of heat

The Makita 18V LXT Cordless Heated Jacket uses Makita 18V LXT and 18V Compact Li-ion batteries to deliver up to 35 hours of heat (with 6.0Ah battery, sold separately). This jacket features a convenient on-board USB power port to keep portable electronics charged. The heated jacket offers three heat settings to adjust to changing weather conditions, and five core heat zones (left chest, right chest, back and both pockets) for optimal heat distribution. The jacket offers a polyester shell for improved wind and water resistance, stretchy side panels for extra mobility and a soft fleece interior for extra warmth. The adjustable cuffs have a hook and loop closure for convenience and comfort to provide a better fit.

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For vehicles with camera, radar and NV ADAS systems

The **Autel MaxiSYS ADAS Calibration Tablet**, No. MSADAS, includes an ADAS Calibration and Diagnostic tablet. This product allows users to perform calibrations for vehicles with camera, radar and NV ADAS systems. Other notable features includes a 10" touchscreen, Android 4.4.2, 64G memory, AutoVIN 2006+/ AutoSCAN and included MaxiFlash Elite J2543 Pass-Thru Programming Device & VCI. The tablet includes one year of free software and a one-year tool warranty. This tool requires the Autel ADAS Calibration Frame (not included).

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Offers a 1,100-lb capacity

The **Stertil-Koni High Lift Wheel Dolly**, No. WDA-500, is designed to enhance ergonomics and versatility when lifting disc brake, brake drums, fuel tanks, toolboxes, calipers and other heavy parts. This dolly has a 1,100-lb capacity and is fitted with a 360-degree pivoting hook for improved range and flexibility. This product can accommodate wheel sizes from 10.63" to 51.18", and is 47.17" high, 45.28" wide and 33.3" long. The unit weighs 220 lbs and can be used with the company's Mobile Column lifts, platform and inground lifts.

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SNEW PRODUCTS



Arching back support for improved comfort

The **Carlyle Tools Heavy Duty Tool Trolley**, No. 815-1340, is designed for shops and service centers that require working at low heights in rugged environments. This tool trolley features four 3" diameter industrial pin casters with two locking casters; a plush 3.5" thick contoured vinyl seat and arching back support for improved comfort; and a removable deep steel storage tray for parts. This heavy duty trolley offers a 350-lb maximum load capacity.

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For BMW applications

The Cal-Van Tools A/C Belt Installation

Tool, No. 732, helps users properly install stretch belts on newer model vehicles without causing damage to other components, the company says. This tool clamps to the pulley/compressor touch, keeping the belt in place during installation. The tool was designed specifically for 2006-2010 and 2015 BMW applications, but can be used on similar applications.

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Lift capacity ranges from 1-1/2 lbs to 10 lbs

The **Mayhew Tools Magnetic Pick-up Tools** feature strong neodynium iron-boron to offer lift capacity ranges from 1-1/2 lb to 10 lb. The magnetic slide ring, included on the 2-1/2 lb, 5 lb and 10 lb tools, shields the sides of the magnet from attaching to unwanted metal surfaces, and the textured cushion handles provides a secure crip. The stainless steel, lightweight handles on the 2-1/2 lb and 5 lb tools extends from 6-1/4" to 34-1/4", while the 10 lb extends from 6-1/2" to 30-1/4". The 1-1/2 lb tool extends from 5-7/8" to 26-1/4". These tools are also available in pre-packed, 30-pc displays.

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Features patented silencing technology

The **AIRCAT 2.3 HP 5" Heavy Duty Angle Grinder**, No. 6380, features a 2.3 HP motor, patented "silencing technology" and a spindle lock feature. This tool offers 12,000 rpm with a governed motor to help prevent overspeeding. Other notable features include a spindle lock feature designed to eliminate the need for multiple wrenches for quick and convenient wheel changes; rotational rear exhaust with internal silencing to reduce the noise level to 87 dBA; vibration damped side assist handle for improved operator comfort; and a light unit weight of 3.97 lbs.

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Weld better joints

Malco's Weld-Bonding Axial Pliers are designed to make welding and securing different types of joints easier for metal workers, autobody technicians and sheet metal fabricators. These pliers are made to fit and operate in tight, narrow, hard-toaccess spaces. The fast, secure-clamping one-finger release helps users quickly, easily and accurately hold two pieces of metal together to weld more perfect joints, the company says. The welding pliers are available individually or as a kit of six.

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No line removal needed

The **AirSept Smart Splice Pro Series** -**Trans and P/S Kit** provides technicians everything needed to fix a damaged metal line or connect a metal line to a hose for transmission and power steering service with no line removal needed. This series includes 16 repairs, with Smart Splice connectors for straight, 45 degree and 90 degree line-to-line repairs, along with Smart Splice connectors for line-to-hose repairs. Smart Splice is OE-approved for line repair and is technician-friendly with no special tools or adhesives required. Smart Splice is burst tested to 2,600 psi to ensure durability in tough automotive applications.

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Service up to 58" wheels and 95" tires

The John Bean 8058 Heavy Duty Tire Changer is capable of servicing up to 58" wheels and 95" tires. This tire changer offers a wireless control pendant and is designed to easily allow a single operator to change even large and heavy assemblies. This unit helps expand the variety of tires a shop can change, while still being able to change simple truck assemblies.

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For use on oil and fuel canisters

The **Lisle 7-pc Low Profile Filter Socket Set**, No. 13270, is designed to work on a variety of applications. The set includes 6 point 24mm, 25mm, 27mm, 28mm, 29mm, 32mm and 36mm sockets for use on oil and fuel canisters when replacing the element. These sockets are designed for use with a 3/8" drive.

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Diagnose motors, actuators, solenoids and more

The **Thexton Circuit Energizer**, No. 852, designed to help technicians diagnose motors, actuators, solenoids and more. This tool uses a 12V power source that most technicians already have, the company says. The tool allows users to disconnect a component from the circuit and test it independently. The tool includes a set of Female 2.8mm terminal lead sets, set of Female .250" Faston terminal, two alligator clips and red and black back probes.

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Quality & Durability for the Track, Shop & Your Garage

Carlyle Tools is the Professional Hand Tool line of NAPA AUTO PARTS. Named after one of the founding members of the National Automotive Parts Association (NAPA®), and Automotive Hall of Fame Inductee, Carlyle Fraser, our tools are built around quality and heritage. Every tool that carries the Carlyle Tools name has been meticulously designed from the ground up with constant input and feedback from the professional technician. In addition, our attention to detail in materials, design, features, and manufacturing is evident as soon as you pick up one of our tools.

Built to mobile tool truck quality; Carlyle Tools strives to provide the professional tradesman an affordable, high performance tool, that is dependable in the harshest work environments in any industry. We collaborate with industry leading tool manufacturers all over the world. By globally sourcing products from countries such as Germany, India, Taiwan, and the U.S.A., to name a few, we are able to provide professional auto parts installers with the best product range available, without settling for, or compromising true quality.

Carlyle Tools offers more than 7,000 items in the Professional Hand Tool, Service Tool, Air Tool, Tool Organization/Storage, Lifting, Shop Equipment, and Lighting categories with more being added every year, and available at all NAPA AUTO PARTS stores. In 2018, we extended our distribution to additional Genuine Parts Company Subsidiaries in Canada, Mexico, and Europe.

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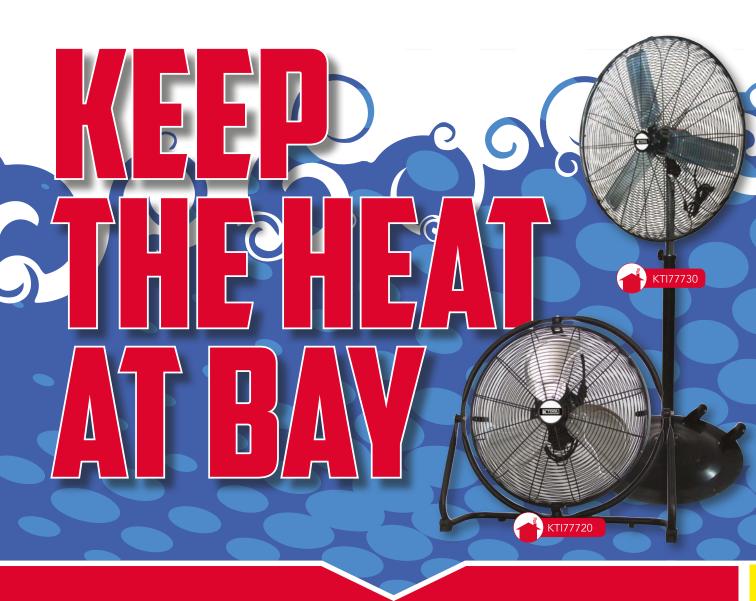
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K TOOL FANS & BLOWERS!

Smoldering hot days can impact productivity in the shop. K Tool keeps the air circulating and blowing for a cooler working environment. So rather than chillin' on a break because of the heat, K-Tool keeps you at the fender completing the tasks at hand.

K Tool fans offer a solution for every shop cooling need...from floor to wall mount models, oscillating or non-oscillating and sizes ranging from 20" to 42".

K Tool blowers are made of a heavy duty plastic housing making them great for indoor or outdoor use. The blowers are great for larger jobs and open work spaces and include a built in carrying handle with cord wrap for easy mobility.

Heavyweight K Tool fans & blowers are built for tough shop environments.





) = Outdoor Use

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Part Number Description		Speeds	Dimensions	Weight
КТІ77700	1200 CFM BIG CHILL BLOWER	3 SPEED	14L X 14H X 10W	13.85 lb.
KTI77702	300 CFM CHILL BLOWER	3 SPEED	13.5L X 10.0H X13.25W	9.3 lb.

Features: 4-position adjustment for centralized air flow & quick drying and 2 on-board grounded outlets (110v) so you can plug in other products while on the job

KTI77730 30" PEDESTAL FAN 3 SPEED 39L X 8H X 32W 50 lb.

Features: Balanced aluminum blades for quiet operation

KTI7772020" 3 SPEED ORBITAL HIGH VELOCITY FLOOR FAN	3 SPEED	28L X 10H X 28W	19 lb.	
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Features: Balanced aluminum blades for quiet operation plus tilts vertically & horizontally for optimal air direction

KTI77742	42" BELT DRIVE DRUM FAN	2 SPEED	45L X 15H X 45W	95 lb.
	14,800 CFM - HIGH, 11,250 CFM - LOW			

Features: Rubber wheels provide ease of movement in shop plus cut-off protection from overheating

KTI77731	30" NON-OSCILLATING WALL FAN	3 SPEED	33L X 8H X 33W	25 lb.
KTI77732	30" OSCILLATING WALL FAN			

Features: 3 blade construction for maximum cooling plus pre punched holes for ease of mounting All shown fans are 120V-60HZ & Covered by a 1 year warranty

<u>SNEW PRODUCTS</u>



For lifting and prying applications

The **Mayhew Dominator 3-pc Curved Pry Bar Set**, No. 14071BL, includes three Dominator pry bars in 12", 17" and 25" length. The pry bars are ideal for lifting and prying applications, such as oil pans, bearings, axles, fuel injectors and more. These pry bars are made in the U.S.A. and backed by a lifetime warranty. The tools feature a hardened and tempered alloy steel shaft that runs from the cutting edge through the handle to deliver durability and prying power; a capped end for striking without damage to the handle; and a black oxide finish that helps prevent corrosion.

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For use on Chrysler, Dodge, Jeep, Fiat and Alfa vehicles

The Autel Chrysler 12+8 OBD-II Connector Cable is designed for use on Chrysler, Dodge, Jeep, Fiat and Alfa vehicles. This cable offers the following features: read and clear codes; perform active tests; view generic and manufacturer live data; perform TPMS OBD-II relearn; coding and adaptations with MaxiSYS Tablet Tools MS906BT+; and perform ADAS calibrations (requires MaxiSYS ADAS software). This connector cable is compatible with all MaxiSYS tablet tools MS906BT and up, the company says. Circle 47 on card. or enter at "e-inquiry" on

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Constructed with durable, lightweight aircraft-grade aluminum

The **OTC Aluminum Jack Stand and Packs** are constructed with durable, lightweight aircraft-grade aluminum to provide durability and longer service life. The jacks and stands meet updated ASME PALD (Portable Automotive Lifting Devices)safety stan-

dards for racing serto lift vehiand come The alumian adjusth old in g ing capaciton and **Circle 45 on** at ng Devices/safety stanlifting equipment. The vice jacks are designed cles faster and higher, in a 55-lb and 51-lb jack. num jacks stands offer able, broad range of heights with two loadties, including threetwo-ton options.

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

Mount worklights under the hood

The Clore Arm-Bar Magnetic Lighting Bar Mount, No. LNCBAR, is designed to offer convenient mounting of Light-N-Carry worklights and A/F/S lights under the hood of vehicles being serviced. This product features expanding arms and articulating hooks with 360-degree adjustability, and provides engine light coverage in an adjustable format. Rubberized hooks help ensure the vehicle's finish doesn't get scratched, and the robust aluminum chassis is designed to hold up in harsh shop environments. The Arm-Bar is compatible with Clore's Light-N-Carry worklights and any light that features magnet mounting capabilities.

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Designed to optimize wire feeding

The Bernard AccuLock S Consumable System is designed to improve productivity and optimize wire feeding while simplifying installation and maintenance. The system includes a contact tip, nozzle, gas diffuser, liner, power pin and power cap. These consumables are designed to solve issues associated with poor wire feeding in semi-automatic MIG welding. The system locks in place and concentrically aligns the liner with the power pin and contact tip for improved wire feeding path with no gaps or misalignments. The contact tips feature coarse threads that easily mate with the gas diffuser, lessinging the chance of cross-threading, and speeding contact tip replacement.

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Minimizes saturation in heavy liquid applications

The **Magid TriTek Palm Glove** features a flexible, dual-layer glove coating designed to give users oil grip without saturation. TriTek absorbs oil on the outside, but repels it on the inside to strengthen grip and minimize saturation in heavy liquid and oil applications, the company says. TriTek is designed to offer abrasion-resistance while maintaining dexterity and flexibility. The DX Technology Shell offers an ANSI Cut A4 coreless shell for non-irritating, lightweight comfort.

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Can be applied precisely in hard-to-reach applications

The Permatex Gel Threadlockers are designed to deliver a high level of accuracy and usability. The gel formula offers a clinging action that allows the threadlocker to be applied with precision and stay on the fastener during assembly. This allows users to apply the threadlocker precisely, even in overhead, vertical and hard-to-reach applications. The company's Blue Medium Strength gel Threadlocker is designed for all-purpose, medium strength use on bolts from 1/4" to 3/4" in diameter. The Red High Strength Gel Threadlocker is designed for heavy duty fasteners from 3/8" to 1" diameters, and is suitable for permanently locking studs and press fits. Both threadlocker gels are offered in a 5g Gel Squeeze applicator or a 10g Gel Twist pinpoint applicator.

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Distinguishes between AC or DC voltage

The Klein Tools Electronic AC/DC Voltage Tester, No. ET40, identifies and distinguishes between AC or DC voltage. This product tests AC voltages from 12V to 240V, and DC voltages from 1.5V to 17-24V. The tool indicates polarity when measuring DC voltages, and features built-in test lead holders on the sides of the



tester. The tool powers off automatically after two minutes of non-use to conserve battery life.

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Mounts to user's wrist like a watch

The **Tech-Life BoomBand Speaker**, No. TL6BM-01, is designed for portability. This speaker mounts to the user's wrist like a watch, connects to a cellphone or mobile device and provides full-bodied sound at two to three times the volume of the average smartphone, the company says. The built-in microphone lets users take calls right from their wrist without needing to touch their phone. This speaker offers a six to 10-hour batter life, is IPX6 waterproof and is available in several colors.

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Access alignment information

The Hunter Engineering Company HunterNet Safety System Alignment Information is designed to make safety system alignment information accessible online anywhere and anytime. Safety system reset is required in conjunction with wheel alignment by many OEMs to ensure the vehicle's ADAS perform properly. This feature can help equip shops to sell and perform proper wheel alignment service, and provides real-time data to shops through equipment results, trends and management reports.

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Offers variable stroke piston

The Macnaught Flexigun Manual Grease Gun, No. K32-01, is designed for automotive, fleet, construction, agricultural, mining and industrial applications. The Flexigun offers a variable-stroke piston and valve arrangement for one-handed operation. It is fully serviceable and features a heavy duty stepped barrel and durable zinc handle for long service life and improved grip. The tool includes the company's KY Supergrip three-jaw, high-pressure couple for positive connection, and utilizes a 12" flexible extension to access lubrication points. The Flexigun's output pressure ranges from 5,000 to 10,000 psi with output volume of 0.02 ounces per shot. The tool is compatible with standard 14-oz grease cartridges, or is bulk fillable with NLGI No. 2 grease. This product includes a 10-year warranty.

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Safely open standard fluid drums

The Lincoln Model 5841 Drum Plug Wrench is designed to eliminate the need for makeshift tools, such as screwdrivers and hammers, to quickly and safely open standard fluid drums. This tool is suitable for agriculture, construction, industrial, fleet maintenance and vehicle service applications. It is compatible with standard metal and plastic caps or plugs on 16-gal and 55-gal drums.

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Mastercool USA ARCTIC COMMANDER line of RRR machines

quipped with the latest technology, all models come standard with an 8" color touch screen command center. The graphic interface will enable navigation through all of the functions and features with the greatest of ease. There is no longer a need to read any external instructions or paper manuals, simply sit back and watch as the information is played on the color command center.

The Arctic Commander series of machines incorporate a powerful windows based tablet, making database and software upgrades a breeze. Wi-fi capability allows our technicians access to any machine throughout the world using the team viewer program to aid with any troubleshooting issues.

Keeping the busy technician in mind, the Arctic Commander machines provide enhanced features such as a visual indicator light, on board conversion calculator and self-diagnostic check. The visual indicator light provides real time progress of the machine status. The conversion calculator allows for the immediate conversion between pounds, ounces, grams and kilograms. The self-diagnostic check can be performed with a simply touch of a button.

> For more information contact: www.mastercool.com (973) 252-9119



TANK FILL SCREEN View real time progress of tank filling with pressures and temperatures



OIL INJECTION SCREEN

View real time oil injection and waste oil collection with displayed weights



SETTINGS SCREEN

Allows the choice of language, units, temperature, volume and weight measurements

Fully Responsive Touch Screen

	VEHICLE: STANDARD VACUUM/LEAK TEST
* (255) © x25.0 linitis	VACUUM O 10 [°] O

VACUUM SCREEN

Fully customizable options allow the user to program vacuum and leak test times

MENU -	9	EN/PSI/9/18/MS	1284 PM AN 20-2014
	TANK:	A OIL:	INFORMATION:
-	O PRESSURE BA PSI	D 01.45	O VEMILLE AND PRESSURE: 0.PSI
STTREES.	1 TIMPERATURE 75.5 'F	0.40 ML	O DATALIA PREVIORE
* .	A NINA WEIGHT	157 ML	1 HOAD TIMPIACTURE
	APR. AMALAME 29.63 LB	- 1015A	60 2077-0
BOOMINES.	0 HOTEKUPE	Sh 21m 50s	TANE
D			-
•		DONE	

MENU SCREEN/STATUS

View all pressures, temperatures, refrigerant and oil weights. View vacuum pump run time and oil change

MENU	MAINTENANCE
	MANUAL TEST
Contrast.	0 SV01 0 SV02 0 SV04 0 SV04
	SVOS SVOS
	0.5V09 0.5V10 0
ADMINISTRATION OF	A RLD1 A RLD2 ARADA ARADA
Distances	* AMA * AMA
0	
	EXIT BACK

MAINTENANCE SCREEN Allows for real time diagnostic feedback. Displays all component info

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VISUAL INDICATOR LIGHT provides visual confirmation of machine progress

WIFI CAPABILITY allows for real time, interactive communication and troubleshooting 8" COLOR TOUCH SCREEN to navigate all features and functions with ease 4" ANALOG GAUGES are class 1 rated and color coded

COMMANDER2000 R134a FULLY AUTOMATIC COMMANDER4000 R1234YF & HYBRID

KEEPING THE BUSY TECHNICIAN IN MIND



Circle 57 on card, or enter at "e-inquiry" on VehicleServicePros.com

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



Available in standard and metric sizes

The **Hansen Global Orange and Green Socket Trays** are available in 1/2", 3/8" and 1/4" drive standard and metric sizes. These trays are available individually and in 6-pc sets. They are made in the U.S.A.

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Sunlight readable LCD display

The Durabook Rugged R11 Tablet features an Intel 8th generation CPU, Intel UHD 620 graphics processor, DDR4 memory, Intel Dual Band Wireless AC 9260 and Bluetooth V5. This tablet is available with i5 and i7 processor options, eight to 16 GB of memory and 128, 256 and 512 GB SATA SSD options. The device also features Windows 10 Pro and a Wi-Fi card with a maximum speed of 1.73 Gbps. The R11 features an 11.6" sunlight readable LCD with proprietary DynaVue technology designed for clarity and viewability in challenging lighting conditions. The 10-point capacitive multi-touch panel can be used with a glove, stylus or finger, even when the screen is wet.

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For Skylift four-post lifts

The **Stertil-Koni High Performance LED Lighting System** for the Skylift four-post lifting system is designed to increase areaspecific under-vehicle lighting to improve shop safety and efficiency. This lighting system features: pre-assembled 40" light tubes with transformer and mounting brackets; modular "plug and play system"; slim-line design; IP65 water resistance; and ecofriendly, energy-efficient bulbs.

Circle 61 on card, or enter at "e-inquiry" on VehicleServicePros.com





Movable control pendant

The John Bean 8026 Heavy Duty Tire Changer is the "perfect do-all" machine for heavy duty service, the company says. This tire changer can change wheels up to 26" and tires as large as 60", and offers a movable control pendant. An optional roller accessory is available for tubeless highway assemblies.

Circle 62 on card, or enter at "e-inquiry" on VehicleServicePros.com



Industrial strength no-rinse solution

Gunk Wipes are an industrial-strength, no-rinse solution designed for cleaning and degreasing everything from engines and equipment to tools and shop surfaces. This two-in-one waterless cleaning solution offers a large 8" by 12" dual-textured wipe with no scratching, rinsing or residue. Gunk Wipes are designed with moisture seal packaging and no isopropyl alcohol to keep moisture locked in, even after opening, the company says. These low-VOC, citrusscented wipes are suitable for use on hard interior and exterior metal, plastic, vinyl and painted surfaces, as well as on skin to safely clean hands and arms.

Circle 64 on card, or enter at "e-inquiry" on VehicleServicePros.com

For adjusting the rear axle toe of Mercedes vehicles

The **Mueller-Kueps Alignment Wrench**, No. 512 712, is designed for adjusting the rear axle toe of Mercedes vehicles. This tool can access and adjust the rear axle toe without having to remove the underbody. Because the underbody

doesn't need to be removed, users can avoid damage to

fasteners. The universal fit allows for adjustments on most Mercedes vehicles.

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APRIL 2019
PROFESSIONAL TOOL & EQUIPMENT NEWS 23



Compact for use in tight spaces

The **Chicago Pneumatic 1/2" Impact Wrench**, No. CP7748, is designed for

power, comfort and durability, and is suitable for workshop or roadside assistance tasks such as tire changing. This impact weighs 4.4 lbs and delivers 960 ft-lbs of power in forward and reverse. The power ring system allows users to use this impact in tight spaces without having to remove the tool to change direction. The tool features a 360-degree swivel air inlet to improve maneuverability. The curved handle uses rubber material at the back of the tool to improve handling and prevent the tool from slipping through dirty and oily fingers.

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Quick-changing mandrel system

The **Wurth Rivet Nut Ratchet Kit**, No. 5964094803, includes a heavy duty manual ratchet tool equipped with a comfort grip handle for setting rivets in hard to reach spots. This handheld tool is designed with a quick-changing mandrel system and color-coded nose pieces suitable for M4, M5, M6, M8, M10 and M12 blind rivet nuts and M5, M6 and M8 blind rivet studs. This kit allows users to install rivet nuts in aluminum, steel or stainless steel. The kit ships complete in an organized, high quality storage case.

Circle 67 on card, or enter at "e-inquiry" on VehicleServicePros.com





Concave, custom-molded composite tub

The **GEARWRENCH Mechanics Creeper**, No. 86995, offers improved access for lowclearance overheard work applications. The creeper features six smooth-rolling offset TPC (thermoplastic copolyester) casters and a concave, custom-molded composite tub for easy mobility and a lightweight design. Durable EVA (ethylene-vinyl acetate) padding offers comfort with minimum thickness for a lower working height.

Circle 69 on card, or enter at "e-inquiry" on VehicleServicePros.com

Tester powered by the applied voltage

The **Klein Tools Electronic AC/DC Voltage Tester**, No. ET45, tests AC voltages from 24V to 32V to 330V. A built-in test lead holder on the back of the meter holds the leads in

two positions to enable testing of tamper-resistant U.S.-style outlets or convenient storage. Batteries are not required— the tester is powered by the applied voltage.

Circle 70 on card, or enter at "e-inquiry" on VehicleServicePros. com





Offers adjustable height and direct drive

The **Amgo-Hydraulic OH-Series Lifts** are designed with asymmetric arms, but can also be configured with symmetric. These lifts feature adjustable height, direct drive, a powder coat finish and stackable runner pads. With lifting capacities of 9,000 and 10,000 lbs, these lifts are designed for demanding shop applications.

Circle 68 on card, or enter at "e-inquiry" on VehicleServicePros.com



Collapsible design fits into pockets

The Milwaukee USB Rechargeable Rover Pivoting Flood Light offers a 550-lm output of Trueview high definition light. Designed for functionality and versatility, this light features a 210-degree pivoting head and a wide magnetic base so it can sit, stick or hang anywhere and cast a wide amount of light. Its collapsible design fits into pockets, and a built-in carabiner allows users to clip it to tool organizers or straps for easy transport. This light offers three output modes: flood high, flood medium and flood low, which provides up to an 11.5-hr run-time on a single charge. The light's body and lens are impact and chemical-resistant, and IP54 rated to protect against weather and dust. Circle 71 on card, or enter at "e-inquiry" on VehicleServicePros.com



Oil and moisture resistant

Big Uggly Knee Protection Pads, by **Premier Products**, feature premium closed-cell, automotive grade, polymeric foam that is both oil and moisture resistant. Ergonomically designed pads measure 15" by 22" by 1.5", clean easily and air dry. This product offers superior knee protection and comfort while working or moving, according to the company.

Circle 72 on card, or enter at "e-inquiry" on VehicleServicePros.com



Features pneumatic height adjustment

The **Carlyle Tools Multipurpose Stool**, No. 815-1343, is a pneumatic height adjustable stool designed to suit most workshop or repair facility applications. Notable features include: a plush, 3.5" thick by 14" diameter vinyl upholstered seat for comfort and easy cleaning; five 2-1/2" industrial caster for wobble-free mobility; and 8" pneumatic height adjustment range from 19" to 27" high. An optional swing out parts tray is also available.

Circle 73 on card, or enter at "e-inquiry" on VehicleServicePros.com





13270 Low PRO FILTER SOCKET SET, 7PC Seven very low profile, 6 point 24mm, 25mm (NEW), 27mm, 28mm (NEW), 29mm, 32mm and 36mm sockets for use on oil and fuel filter canisters when replacing the element. Use with 3/8" drive.



46020 BRAKE GALIPER HANGER SET, 2PC Hangs the disc brake caliper during service keeping tension off the brake line. Length 9".



65200 DEEP HOLE ALUMINUM HEAD M14x1.25 SPARK PLUG Hole Repair Kit

Replaces stripped 14mm spark plug threads in aluminum heads. Installs a new solid steel spark plug thread insert in original thread location. Set includes one-piece drill tap, long tap holder, short tap holder, insert installer, swedger and handle. Includes four insert lengths: 5/16", 7/16", 11/16" and 1" (new size).



61150 FUEL FILTER WRENCH FOR RAM ECODIESEL Fuel filter wrench for the 2014-current Ram 1500 EcoDiesel. Wrench is designed with four tabs that line up on the outside of fuel filter housing. Made of cast aluminum with a 3/8" square drive and 7/8" hex drive.



81810 5/6" CARBIDE SCRAPER, 5" Removes gasket residue from steel and aluminum heads and manifolds, along with carbon build-up and rust. Features a shorter and narrower double-dip grip handle. Can be used on disc brake caliper slides. Tungsten carbide tip is brazed to the steel blade. Tip remains very sharp and is precision ground.



Loosen or tighten battery terminal clamp nuts. Offset handle design for tight spaces. Serrated jaws for grip. Dual material grips for comfort.

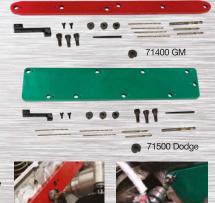


17000 LONG REACH HOSE CLAMP PLIERS Length of 17" provides extra long reach. Cross-cut tip design grips most hose clamps from multiple angles. Ratcheting lock mechanism holds the clamp.



64100 ACTUATOR MOTOR WRENCH SET

Toothless, infinite ratchet and hinged handle design make it easier to remove and replace fasteners on small, electric HVAC motors commonly found in confined areas. Ratchet can be flipped from clockwise to counterclockwise. Includes 8mm socket and 1/4" square drive adapter.



71400 MANIFOLD DRILL TEMPLATE - GM 4.8L, 5.3L & 6.0L 71500 MANIFOLD DRILL TEMPLATE - DODGE 5.7L HEMI Helps remove exhaust studs without damaging the cylinder head. Tapered bolts center the base plate over bolt holes and slip fit bushing allows you to move from hole-to-hole without moving base plate. Includes bushing to drill to tap size when extractor cannot be used. Drill depth gauge makes sure water jacket is not pierced.



29090 TRUCK ANCHOR PIN BUSHING DRIVER, 2 PC. Removes and installs 1-3/8" anchor pin bushings and stuck anchor pins. 11-1/2" driver allows bushings to be driven straight without removing the hub. Doublesided cone snaps onto driver. © 2019 Lisle Corporation

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Remove stubborn bolts in hard-to-reach areas

The **Astro Tools 1/2" and 3/8" ONYX Nano Angle Impact Wrenches**, Nos. 1832 and 1838, are designed to offer the power to remove stubborn bolts in difficult to reach areas. With a full head length of 3.46" and

a long reach handle, these tools fit into confined spaces with a slim profile. These tools offer 415 ftlbs of max torque and offer enough power for a variety of applications.

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Offers touchscreen compatibility

The **Magid AeroDex Gloves** are designed to deliver lightweight, 360–degree A4 cut resistance that is up to 50 percent lighter than a comparable cut A4, the company says. These gloves are designed for flexibility and dexterity for jobs that require tactile sensitivity without removing gloves. They feature a polyurethane palm coating to maintain dexterity and offer improved grip and touchscreen compatibility.

Circle 76 on card, or enter at "e-inquiry" on VehicleServicePros.com



Built-in LED illuminates work area

The Makita 12V Max CXT Li-ion Cordless 1/4" Impact Wrench, No. WT04R1, offers up to 2,600 rpm for a wide range of fastening applications. This motor delivers 44 ftlbs of max torque, an ultra-compact design at only 6-3/8" long and

weighs 2.3 lbs with battery for reduced operator fatigue. A built-in LED illuminates the work area, and an ergonomically designed handle with rubberized soft grip improves comfort. This impact is suitable for working in tight spaces and overhead applications.

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Circle 78 on card, or enter at "e-inquiry" on VehicleServicePros.com



Designed to improve shop productivity and performance

The Hunter Engineering Push Reports for HawkEye Elite Alignment Machine are designed to improve shop productivity and performance by providing managers with results from Hunter alignment equipment. These reports measure the number of alignments performed and compare to daily performance goals. Custom, easyto-understand reports are automatically pushed via text or email, allowing managers and owners to see shop performance. Push reports can automatically calculate daily conversion rates for alignment opportunities, as well as the number of open alignment opportunities.

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

BE SURE TO WATCH "THE NICKEL TEST"

Ranger:

Model RL-8500 MSRP \$5,730

ombination Bra

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! Circle 80 on card, or enter at "e-inquiry" on VehicleServicePros.com





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NO MORE GUESSWORK

9



3D Quick-Touch[™] Data Entry



Dual Laser-Spot[™] Technology





Includes FREE Wheel Weight Starter Kit

MRP \$3,170 FREE SHIPPING*

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Exclusive Laser-Spot™ technology **precisely targets** weight placement locations, helping to achieve the perfect balance every time. No guesswork. No re-spins. **Ranger makes it that easy.**

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*Free shipping on Ranger products to the 48 contiguous states. © 2019 BendPak Inc. Ranger Products is a registered trademark of BendPak.



Helps ensure vehicles start after extended inactivity

The **Snap-on 4 A 6/12V DC Battery Maintainer**, No. EEBM500A, is suitable for use on stored or seasonal cars, trucks, boats, SUVs, motorcycles and more, to help ensure vehicles start when needed, even after extended inactivity. It is compatible with conventional lead-acid, maintenancefree, AGM, gel cell and deep cycle batteries, and features a quick-connect output cord with a clamp set, ring terminal set and 12V adapter output accessories. An LED charging status display indicates when the charge is complete.

Circle 87 on card, or enter at "e-inquiry" on VehicleServicePros.com



Tuned for optimal bass

The **Tech-Life Boss**, No. TL35BM-00, is a portable Hi-Fi audio speaker that offers a 10-hr battery life, 100' wireless range, power bank and built-in microphone for handsfree calling and Siri/Google Assistant activation. This speaker offers a rich sound quality tuned for optimal bass, and multi-link pairing technology that enables the product to connect and play wirelessly together with up to 100 additional Boss speakers.

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NEW PRODUCTS

Rolls up for easy transport

The **CAY Industries Socket Roll Pro** is a portable tool organizer that offers a clearlylabeled and easily stowable container for sockets, wrenches and drives. The Socket Roll Pro holds 66 tools of the most common metric sockets and drives (1/4", 3/8" and 1/2"), in addition to the universal joint, extension and ratchet for each drive and a standard 5/8" spark plug socket. The back of the organizer features six wrench slots for quick access. The organizer rolls into a compact carrying case for easy transport. **Circle 88 on card, or enter at "e-inquiry" on VehicleServicePros.com**



Socket Roll

Offers expanded OE-level coverage

The **Cojali Jaltest 19.1 Software Version** is designed to offer expanded access to OE-level maintenance information. The updated software version includes nine new makes, 514 new models, 1,849 new systems, 14,625 new fault codes and 3,271 troubleshooting guides. Cojali's Jaltest Info Online module, a Truck-Fix Encyclopedia that also expands with each version, now offers more than 27,955 troubleshooting guides by code, and 75,504 troubleshooting guides by symptoms, with access to any troubleshooting guide with no physical connection to the vehicle required.

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TOP 10 SERVICE OPPORTUNITIES

Where do shops see growth opportunities in 2019?

- **1.** Diagnostic Services **48**%
- **2.** Maintenance Services **42**%
- **3.** Electrical Work **41**%
- **4.** Reprogramming/Reflashing **29**%
- **5.** A/C **27**%

- 6. Automotive Diesel 27%
- 7. Suspension Repair 25%
- **8.** TPMS **24**%
- 9. Tire/Wheel 21%
- **10.** Medium/Heavy Duty **18**%



TOP TOOL TRENDS

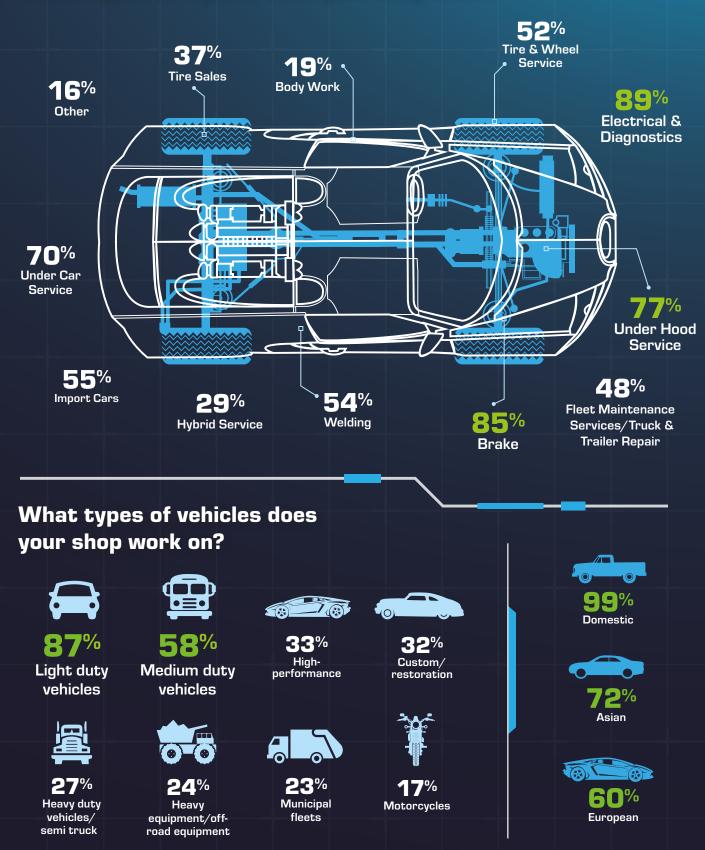
Review the leading products and purchases for this year, including:

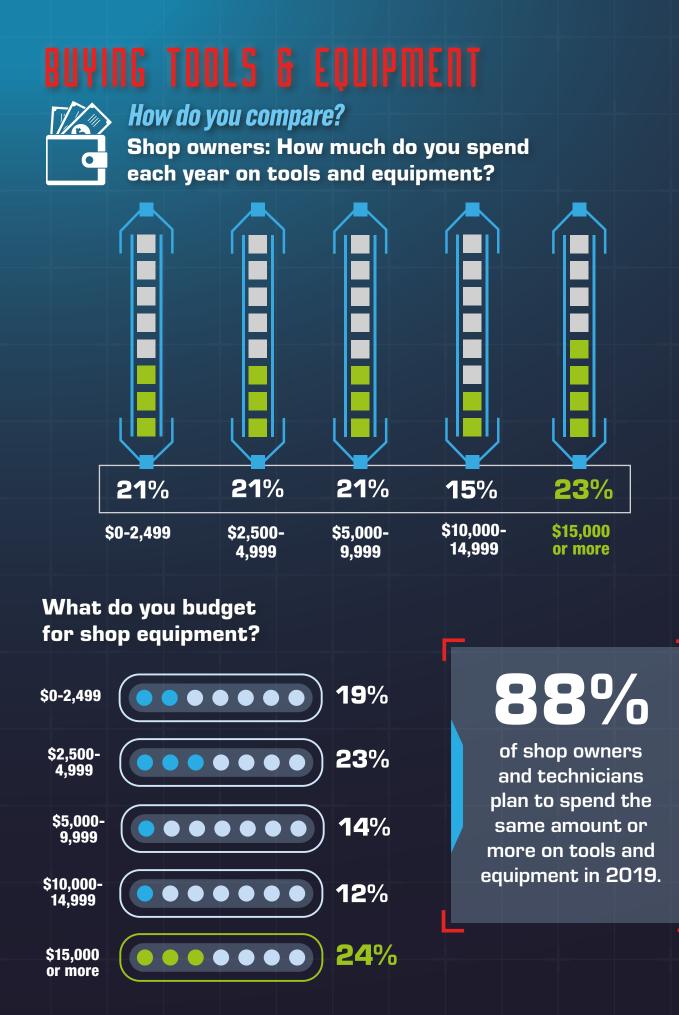


Results gathered from a total of 485 survey respondents.

MAINTENANCE & REPAIR

What types of repairs does your shop offer?





Do you reimburse technicians for tool purchases?



How much do you spend each year on tool purchases?

_					
-	n 7 0/_				
-	27%	26 %	26%		
-				40%	0 /-
-				10%	11%
_					
	\$0-2,499	\$2,500-4,999	\$5,000-9,999	\$10,000-14,999	\$15,000+
_		/			

Where are you purchasing tools?

			2019	2018	2017
2 6	Mobile tool dist	ributors	86 %	85%	89%
		Online	72%	73 %	72%
	Auto parts	s stores	67 %	50 %	60%
			l i i		
	Retai	il stores	52%	63 %	48 %



when making a purchase.

DIAGNOSTICS **WITH**>>> THE EXPERTS

The diagnostic platform you'll need tomorrow, available today!

Quickly diagnose and program vehicles across Asian, Domestic, and European makes with the full support of AutologicLive Support.

✓ It's more than just a diagnostic tool:

By investing in **DrivePRO**[®], your repair shop gains **unlimited** access to our team of OEM-trained master technicians!





Flash Programming Diagnostics



Tackle every job with:

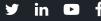
- More Confidence
- Better Efficiency
- Greater Profitability



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UTOLOGIC

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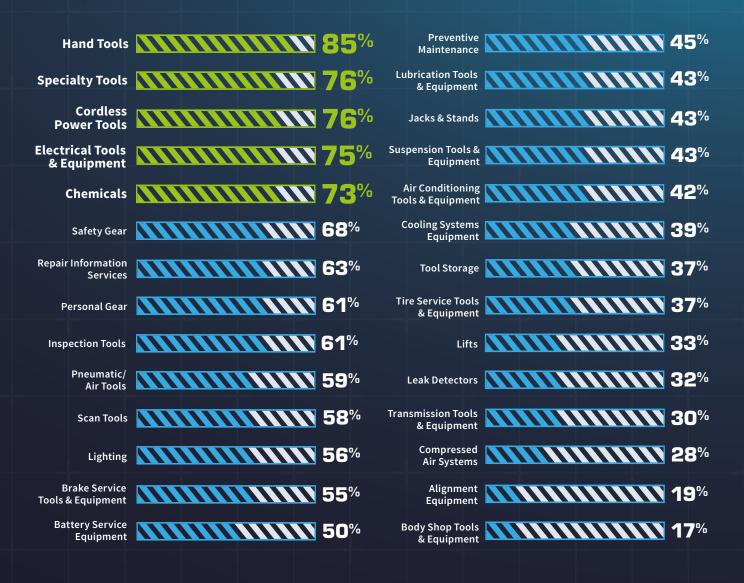
and Coding

(877) 945-6442

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BUYING TOOLS & EQUIPMENT

Major tool category purchase plans for shops and technicians over the next 12 months.

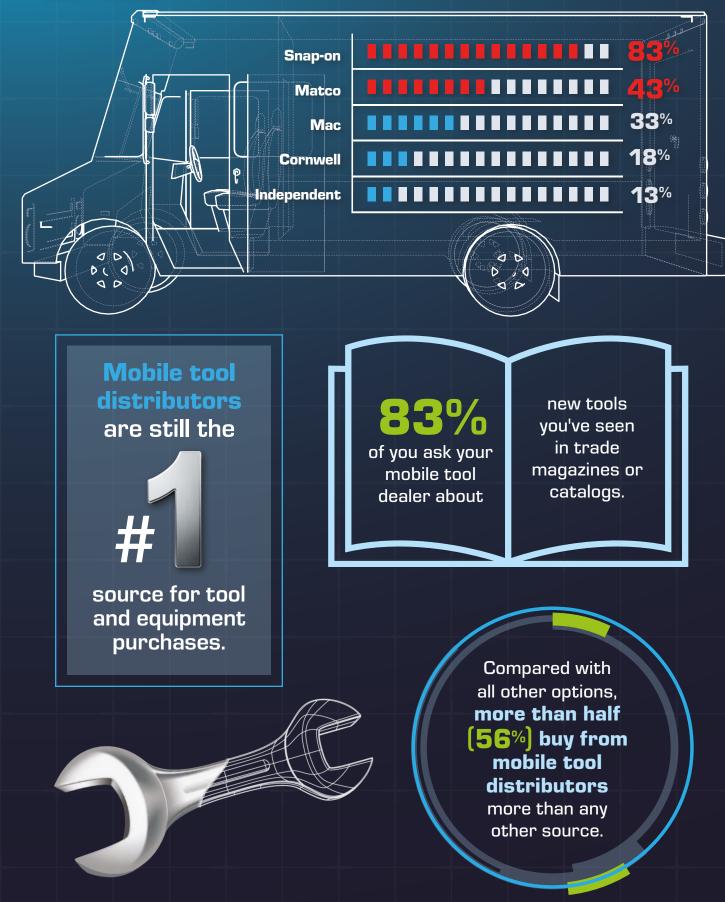


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is the first thing shop owners and technicians look for in a tool.

Which mobile tool distributor(s) do you purchase from?

(select all that apply)

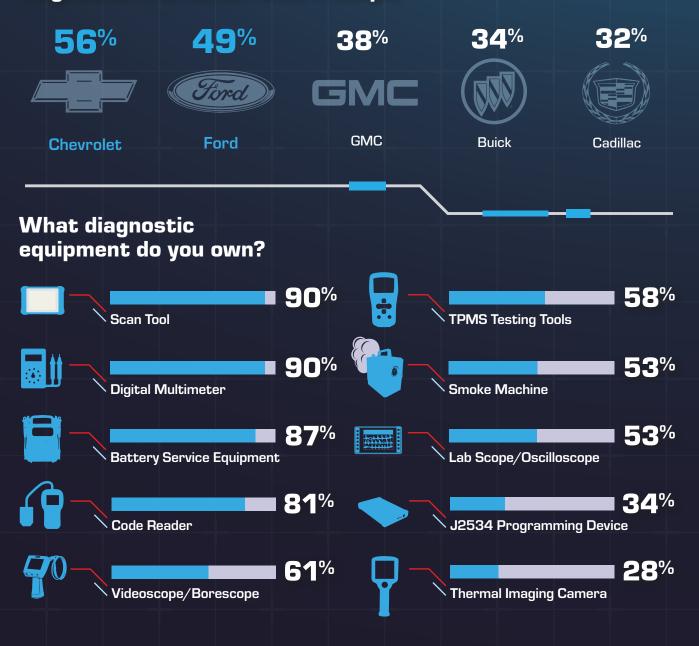


DIAGNOSTICS

The complex nature of today's vehicles demands technicians complete diagnostic work. More repair pros see the benefit to owning OEM and aftermarket scan tools to get the job done.

The leading OEM scan tools or diagnostic information used in shops:

Ю



When asked if they used or purchased OEM level scan tools, **41% of shop** owners and techs say they only use aftermarket scan tools.



of shops provide scan tools,

but some technicians (10%) buy their own. (20%) of techs use both shop scan tools and their own.

Do you offer reflashing or reprogramming?



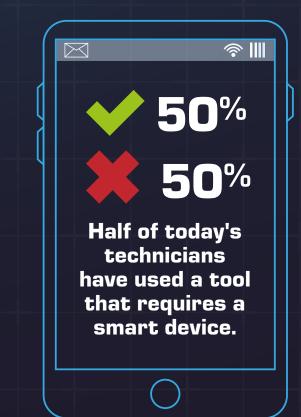
22% would, but don't own equipment to do so.

> Consider whether this could be a revenue opportunity for your business.

Be on the lookout for telematics technology.

78%

would use telematics if they had access to a tool which could access vehicle data.



BATTERY SERVICE

What type of battery service equipment do you own?

91% Battery tester 77% Wheeled battery charger 70% Portable battery charger 53% Memory saver **48**% Battery maintainer 26% Reprogramming power supply

1111

1

How often do you see start/stop technology? 14% 2-3 times a week

10% Once a week

16% Once a month

22% Once every few months

> 38% Never

Do you own a smart battery charger?

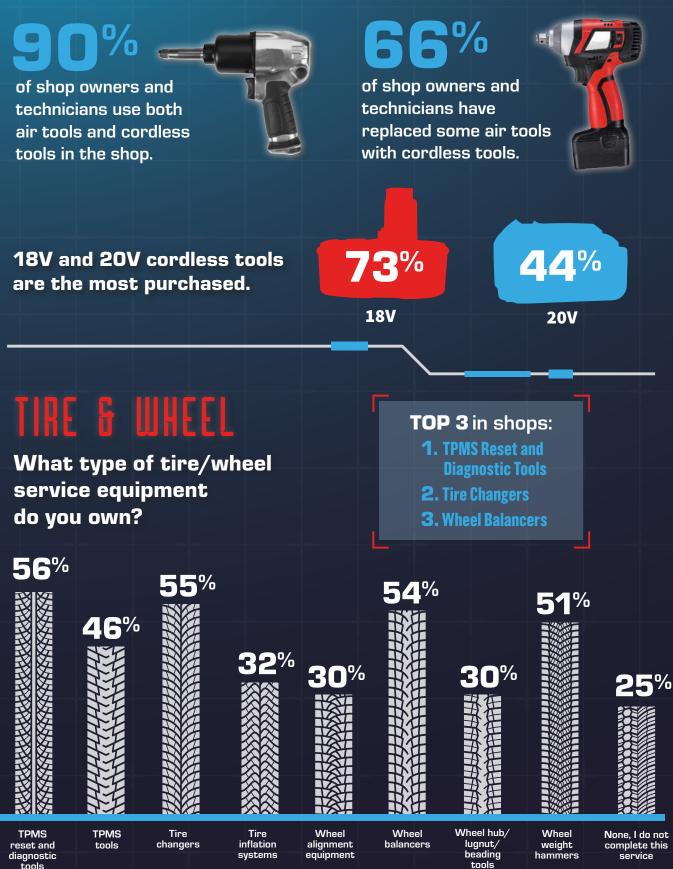


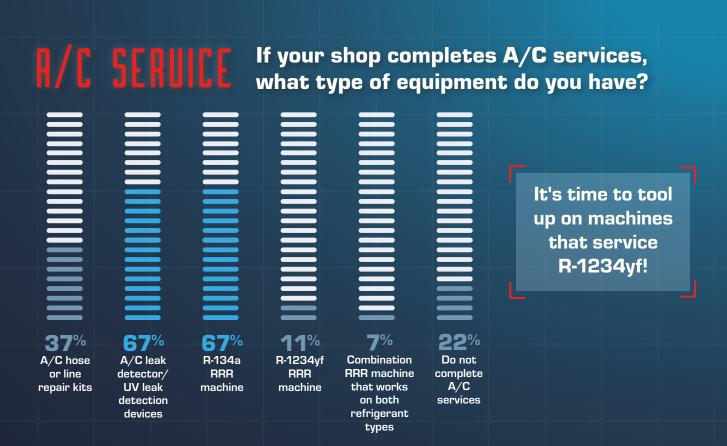


No but plan to purchase in the next 12 months

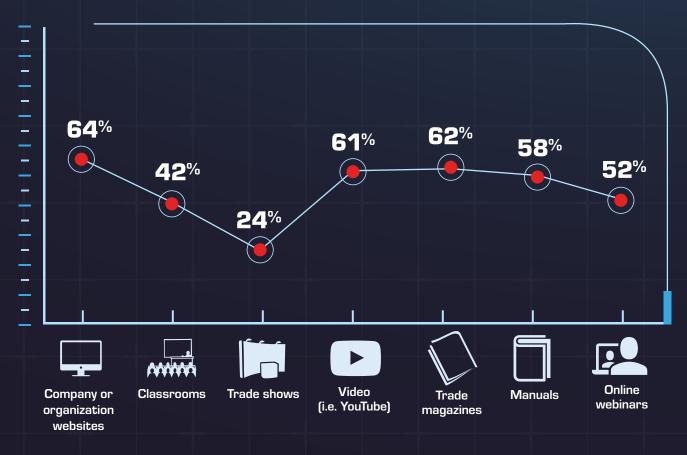
1**∩**%

POWER TOOLS

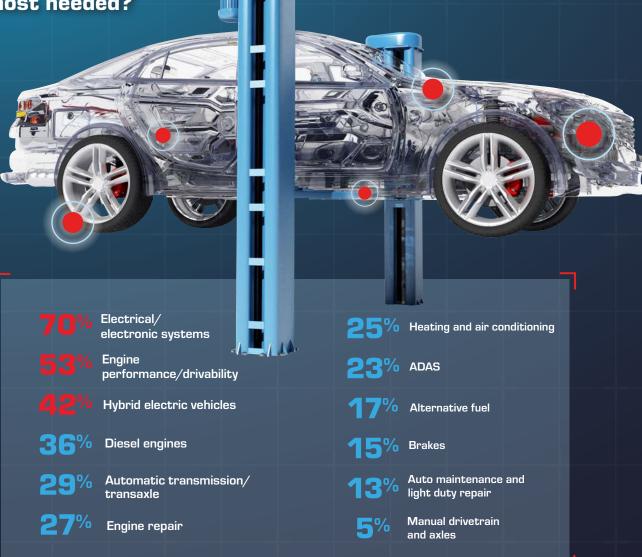




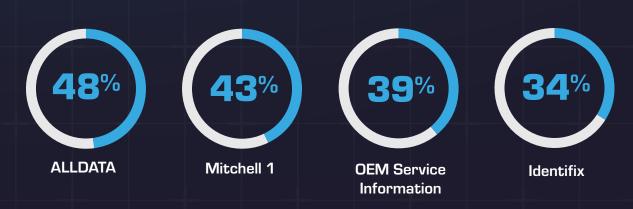
Where did you find training information in the last year?



In what area(s) do	
you feel training is	
most needed?	

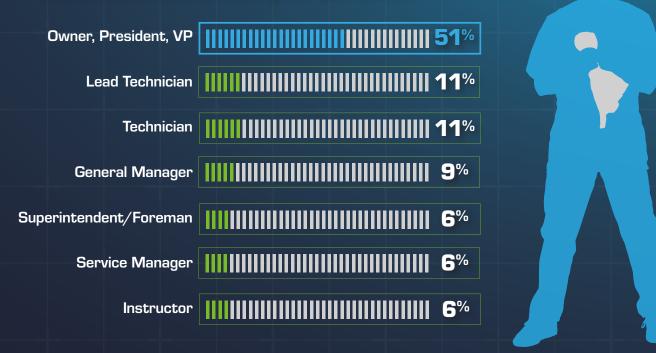


What type of service information do you use?



INSIDE THE SHOP We asked shop owners:

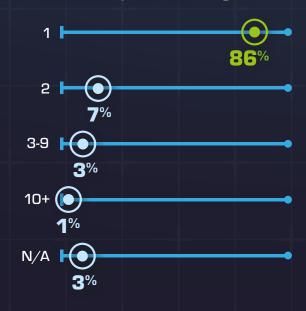
What best describes your job title?

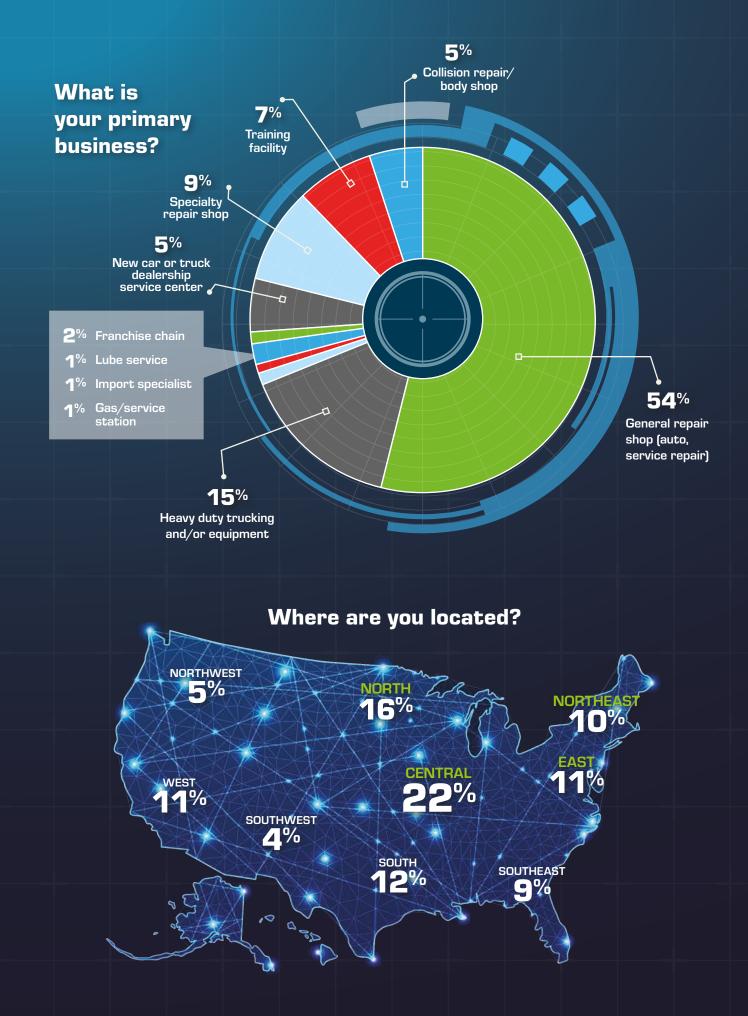


How many technicians are at your company (not including you)?



How many shops do you own and/or manage?

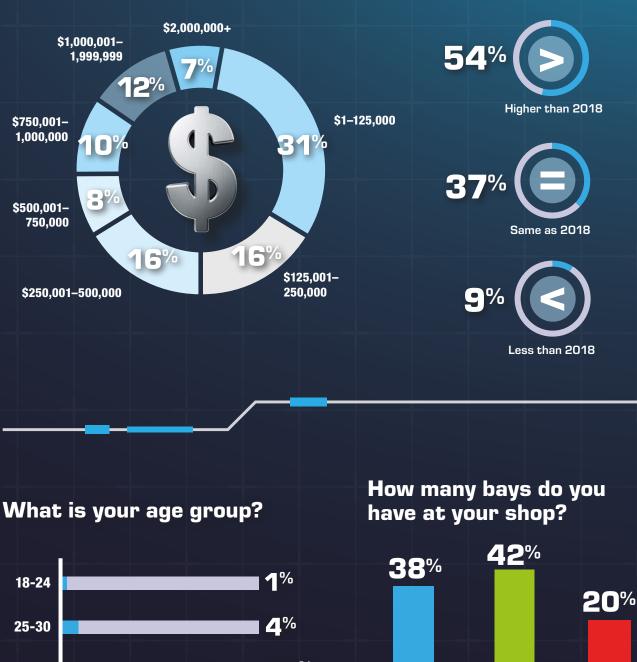




INSIDE THE SHOP, CONT'D

What is your annual shop revenue?

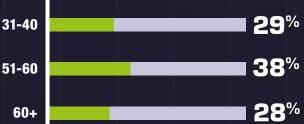
What do you anticipate your 2019 revenue to be?



1-3 Bays

4-9 Bays

10+ Bays



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SPEAKS SOFTY & CARRIES A BIG PUMP 7.5 HP Low-RPM Motor Asymmetric Rotary-Screw Hush Qu ASME **RS7580V-601** MSRP \$3,735 **Certified Tank** FREE Anti-Vibration Pads Hush Quiet Vertical Rotary-Screw Air Compressor Reduce shop noise and increase airflow with the heavy-duty Hush Quiet[™] rotary-screw air compressor by BendPak[®]. WARRANTY Quiet time never sounded so good.

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

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VEHICLESERVICEPROS[§]

NEW at Harbor Freight Tools

arbor Freight Tools is America's one-stop shop for quality tools at the lowest prices. Big things are happening at the national retailer, and it's good news for technicians.

Harbor Freight Tools has been working with manufacturers to develop hundreds of new brands of professional tools and accessories that have the same features, performance and quality of leading competitors—but at a Harbor Freight price. And customers are taking notice.

Here's a look at just a few of the new game-changing brands, offered exclusively at Harbor Freight Tools, that are disrupting the tool and automotive industries.

DAYTONA

Designed for the professional technician, Daytona professional duty floor jacks are the best value on the market. With a sleek modern design built with the highest quality materials and top-of-the-line construction, Daytona meets the demands of the busiest shops. Now in four colors.

VULCAN

The Vulcan Master Welder Series line of arc welding equipment and accessories was designed with the features and performance for professional welders but at a fraction of the price of competitors.



EARTHQUAKE

Earthquake XT air tools deliver extreme power and torque at an unbelievably affordable price, making them a fast favorite with professional technicians.



Bigger. Stronger. More Stable. Everything that makes U.S. General the best value in tool storage is now even better with the U.S. General Series 2 line of tool cabinets and carts. Built with welded steel construction and a high-quality powder coat finish in the hottest colors, U.S. General Series 2 gives you endless configuration options at an affordable price.



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ICON

Designed for the master technician who demands top quality, ICON is a full line of premium hand tools, storage and automotive specialty kits. All ICON products feature precision craftsmanship for the professional—at an unbeatable value. Coming to Harbor Freight Tools this summer.

Harbor Freight Tools 800.423.2567 1,000+ Stores Nationwide



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Professional Diagnostics for the Master Technician ZURICH BEATS Snap-on*

8" PROFESSIONAL AUTOMOTIVE SCANNER

ZURICH ZR-PRO ITEM 64576	Customer Rating	Snap-On Solus Edge EESC320	
YES	AUTO VIN SCAN	YES	
YES	WIRELESS BLUETOOTH® CAPABLE	NO	
YES	OEM SPECIFIC FAULT CODES	YES	
YES	LIVE DATA GRAPHING	YES	
YES	FUNCTIONAL TEST & BI-DIRECTIONAL CONTROLS	YES	
YES	ANTI-THEFT / KEY DUPLICATION	YES	
YES	RESET INSPECTION INTERVAL LIGHTS	YES	
YES	RECORD AND PLAY BACK LIVE DATA	YES	
YES	STEERING ANGLE AND ELECTRONIC BRAKE SERVICES	YES	
YES	PRINTS VEHICLE DIAGNOSTIC REPORTS	YES	
YES	WIFI / INTERNET CAPABLE	YES	
YES	1-YEAR WARRANTY	YES	
INCLUDED	DOMESTIC AND ASIAN VEHICLE COVERAGE	INCLUDED	
INCLUDED	EUROPEAN VEHICLE COVERAGE	\$ 649 00	
YES (2)	STYLUS INCLUDED	NO	
YES	BUILT IN CAMERA	NO	
YES	WEB BROWSER	NO	
YES	DOWNLOAD THIRD PARTY APPS	NO	
\$1495	TOTAL COST	^{\$} 4,544**	
\$59999	1-YEAR SOFTWARE SUBSCRIPTION RENEWAL	\$ 749 ⁰⁰	
NOW §	* Snap-On SOLUSE DESE ESS230 stated capabilities. **includes ESS 1,0999 ⁹⁹ with coupon shown below	C320 (\$3895) and European Vehicle Co SAVE \$4000	

ZURICH ZR-PRO

The recently released Zurich ZR-PRO professional OBDII scanner is a new state-of-the-art automotive diagnostic tool and tablet designed to give master mechanics the power of sophisticated diagnostics in an easy-to-use tablet - at a fraction of the price of tool truck scanners. The ZR-PRO is an advanced automotive scan tool equipped with all the functions the professional technician needs to diagnose virtually any vehicle by enabling easy communication with a vehicle's most sophisticated systems.



 Aim at Code Watch Product Video www.HarborFreight.com/qr/Zurich



INCLUDES: ZR-PRO Scanner Tablet OBD2, Lithium Ion Battery, 14' OBD2 Extension Cable, OBD2 Bluetooth Adapter, High Quality Carry Case, Password Envelope and Owners Manual & Quick Start Guide



1			WITH ABS/FixAssist	8/CBC	
				-	
		YES	LIVE REAL-TIME ENGINE DATA	YES	
	Peterson D	YES	FREEZE FRAME DATA	YES	Blase-Floind SECREA
	HELES ALL/22 Stores	YES	READS OBDII '96 & NEWER COMPATIBLE	YES	
l		YES	BATTERY/ALTERNATOR TEST	YES	
l	••• *	YES	OIL LIGHT RESET	YES	
l		YES	BATTERY RESET	YES	
l		YES	ERASE TROUBLE CODES	YES	
	00	USA Asia/Eur	ABS CODES/DEFINITIONS	USA Asia/Eur	Contract and Contract
	ZURICH ZR13	USA Asia/Eur	AIRBAG CODES/DEFINITIONS	USA Asia/Eur	Snap-on
	ZUNICH ZK13	FixAssist [®]	FIX RECOMMENDATIONS	NO	Blue-Point EECR3A
	\$1	99	99 PRICE	^{\$} 329	99
	ITEM 63806	~~			* Snap-on EECR3A stated specs.

VISIT YOUR STORE FOR A FULL PRODUCT DEMO

ZURICH professional automotive diagnostic tools for the master technician are designed with the features and functionality of leading brands - at a price you can afford. Zurich OBD2 Code Readers provide precise measurements and readings, making complex vehicle diagnostic systems easy to understand and fix.

ZR4 Customer Rating ZR8 Customer Rating ZR11 Customer Rating **OBD2 CODE READER OBD2 LIVE DATA OBD2 WITH ABS** · Reset Oil/Service Lights · Lightweight, Compact Design · Diagnose/Erase ABS on Domestic, Color-Coded LED Emissions Diagnose/Erase ABŠ on Asian and European Vehicles Battery & Alternator System Check Indicators Domestic Vehicles **ITEM 63808** ITEM 63809 ITEM 63807 DUCT TUTORIAL VIDE zurichdiagnostics.com/video ZR8 ZR1 ICH **COME SEE FOR YOURSELF AT ONE OF OUR 1.000+ STORES NATIONWIDE** WWW.HARBORFREIGHT.COM OR US GENERAL ICON PRODUCTS ZURICH DAYTONA VULCAN EARTH

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MANUFACTURER'S COUPON



The **Power Probe 3EZ** is Power Probe Tek's Smartest Power Probe yet; the tool's software has been designed to help all levels of technicians. Similar to the Power Probe 3S, the 3EZ has been upgraded with two additional features; **EZ Learning** and **EZ Diagnostics**.

EZ Learning teaches the user all of the tool's functions, while EZ Diagnostics guides the user through basic electrical testing procedures with embedded QR codes providing links to clear videos of each test. The tests included in EZ Diagnostics are Fuse, Battery, Voltage, Component, Charge, and 5 Volt Reference.

The new Power Probe 3EZ by Power Probe TEK, allows any level of technician to maximize the tool's capability, helping them diagnose and repair electrical problems like a seasoned professional.



NOW UPGRADED WITH **EZ LEARNING** Mode which teaches you all functions of the tool



NEW EZ DIAGNOSTICS MODE COACHES You through basic electrical Diagnostic testing



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POWER PROBE 3EZ POWER PROBE 3 WITH EZ LEARNING & EZ DIAGNOSTICS

The Power Probe 3EZ is a Digital Voltmeter that provides diagnostic power with the flip of a switch. This tool simplifies the testing of fuse boxes, verifies correct operation of motors, lights, relays and wires. This design includes an ergonomic body with a large screen that is capable of flipping 180 degrees for easy viewing in hard to reach spaces.

EZ Learning teaches the user all of the tool's functions, while EZ Diagnostics guides the user through basic electrical testing procedures with embedded QR codes, providing links to clear videos of each test, such as Fuse, Battery, Voltage, Component, Charge, and 5 Volt Reference.



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Hy-per Lube Oil Supplement (p/n HPL201)

y-per Lube Oil Supplement (p/n HPL201) offers many benefits to customers looking to address higher-mileage engine issues like preventing engine wear at start-up, helping restore horsepower and torque, extending oil life, quieting noisy engines and making engines run better and last longer.

More than 75 percent of internal wear occurs at start-up, known as dry or cold-start wear. Hy-per Lube Oil Supplement offers total protection at this critical phase by leaving a defensive film on internal engine parts to eliminate start-up wear no matter how long the engine has not been in use.

Hy-per Lube Oil Supplement stabilizes engine oil by improving viscosity and preventing thermal breakdowns. Benefits include:

- Added protection between scheduled oil changes
- Extends service life of oil by as much as 50 percent
- Prolonged drain interval up to 7,500 miles (under normal conditions)

BAR'S LEAKS

- Restores performance and fuel economy in high-mileage engines
- Increases film strength
- High-Mileage Engine Oil Supplement
- Available in 1, 5 and 55-gallon quantities for commercial use

Hy-per Lube Oil Supplement uses a completely petroleum-based formula that will not void new car warranties and is compatible with all petroleum and synthetic oils, making it a multi-faceted product that any DIY customer can quickly grab off the shelf and add to their vehicle's oil.



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CVT Transmission Fix

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

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

www.barsleaks.com

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Part# 1414

Jenny's Electric Two-Stage Vertical-Tank Stationary Compressors

E specially suited for applications requiring greater pressure, Jenny Products' line of electric two-stage, vertical-tank stationary air compressors provide 175 psi and displace between 9.1 to 43.6 cfm.

Each of the line's 16 models requires a smaller footprint than horizontal-tank counterpart models, while maintaining the quality and durability of Jenny's complete compressor inventory of more than 175 units. All of the vertical-tank stationary compressors are built with heavy-duty, two-stage cast-iron pumps and powdercoated, ASME certified tanks. Large flywheels provide extra cooling and easier startups, and special unloading valves further assist motor starts. Directional air shrouds help reduce pump temperatures, and a thermal-overload protection feature prevents the motor from drawing too much current and overheating.

Models in the stationary compressor line are powered by a onephase or three-phase electric motor delivering between 2 and 10 horsepower. Tank sizes include 60, 80 and 120 gallons. All Jenny air compressors are built in the USA. Furthermore, all of the company's electric compressors are UL Listed, meaning the compressors have been tested and determined to meet UL's strict, nationally recognized Standards for Safety. The approval lifts Jenny compressors to a safety standard not found with most compressor manufacturers.



Jenny Products, Inc. 850 North Pleasant Ave Somerset, PA 15501-1069 814-445-3400



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JENNY. HIDDEN IN PLAIN SIGHT SINCE 1927.

The only time people notice an air compressor is when it's not working. That's why Jenny has basically gone unnoticed since 1927. It's the hazard of offering the most reliable compressors on the market, but we wouldn't have it any other way...nor would our customers.

» Isn't it time a Jenny was hiding in your shop?



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LT855-AH Texas Twister[™] Air Hammer

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

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

Thread your choice of any LT855A Texas TwisterTM Air Hammer Pulling Kit accessory into rear of air hammer. Turn air hammer around in your hand so rear of air hammer is facing forward. You now have a pneumatic puller. Hypersonic vibration/pulling energy will free the most frozen fasteners. Includes a vibration dampening system for reduced discomfort and fatigue.

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

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Comes packaged in plastic blow molded storage carrying case. Includes quick connect chuck, air lock plug and adjustable brass air flow regulator.

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



Rear View



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HOTOR!

MotorVac GDi Fuel Service Cleaning Kit

otorVac proudly introduces their GDi Fuel Service Cleaning Kit with universal MAP sensor adapter (500-0467KT). What separates this service from others is the combination of a patent pending 2-part chemical and application process.

The MotorVac GDi cleaning system reduces the long hours usually spent performing a complete tear down or walnut blasting of a vehicles intake system. Our 2-part chemical formula has been designed to clean & remove intake deposits unique to GDI intakes. Our Wash solution will penetrate and soften intake deposits, that build up on the valves of GDi engines. The Rinse formulation has been designed to remove those softened deposits. An additive package in the formulation will work to lubricate the intake valves and combustion chambers for better compression after the service.

Independent lab studies have shown our chemistry to be up to 65% better at removing intake related deposits than the competition. Beyond addressing intake related carbon deposits, the combustion chambers, turbochargers, and catalytic converters, will also show a marked improvement after the service.

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HOTORVA

CDS[®] Automotive

HOTORVA

With an available line-up of application specific adapters, we are able to take advantage of various plenum architecture's and position the adapter/nozzle behind the throttle plate for optimum atomization of our chemistry. This unique placement of the adapter allows for the best possible distribution of the chemical across all the intake valves.

Each 500-0467KT kit includes the following:

- MotorVac GDi Induction Tool (500-0467)
- 2-part chemical kit (400-0458)
- Universal MAP sensor adapter (067-1730)



CDS Automotive

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www.cpsproducts.com/500-0467kt-gdi-kit/



GDi Cleaning Solution has up to 65% better deposit removal than existing methods.

Introducing the new MotorVac **GDi kit 500-0467KT**. This kit replaces the need for walnut blasting or disassembling parts of the intake assembly. The new kit comes with our GDi induction tool, a case of our patented chemicals and our new Universal MAP sensor adapter.



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Macnaught Launches Own Brand of Fluid Handling Products, Introduces Three New Innovations

Australian-based Macnaught has launched its own brand of fluid handling products after more than 70 years of private-label supply to leaders in the industry. Macnaught Americas, established in 1989 in Tampa, Fla., operates in the United States, Canada, Mexico, Central America, South America and the Caribbean Basin.

Among the company's offering are three innovative new products available only

The Aussies are Coming!

Legendary Fluid Handling Performance

After decades of private-label supply to industry leaders, Macnaught is launching our own brand of fluid handling products in the Americas. Our quality pumps, reels, meters, grease guns and accessories are manufactured in Australia and are engineered to endure extreme conditions.

- Industry's best warranty
- 70 years of top performance
- Global leadership and coverage
- Now available in the Americas
- Innovative new products:
 - BOP20 industry's first batteryoperated oil pump
 - KY+ one-handed safety coupler with tight greasing access
 - Retracta[®] R3 hose reel with fully adjustable, controlled return

Contact us at: 813 628 5506 info@macnaughtusa.com

macnaughtusa.com/new-products





from Macnaught – the Retracta R3-RACR, KY+ Grease Coupler and BOP20 Battery-Operated Oil Pump.



Retracta R3-RACR

The Retracta R3 hose reel with RACR (Retracta Adjustable Control Return) allows complete control of the hose's return speed to protect personnel and nearby equipment.



KY+ Grease Coupler

The compact KY+ one-handed safety coupler fits into tight spaces. Its unique, internal pressure-relief mechanism is designed to prevent grease splatter.

BOP20 Battery-Operated Oil Pump

Macnaught's BOP20 is the industry's first battery-powered oil pump. Designed for fivegallon oil applications, the BOP20 series is ideal to pump gear oil, replacing manual hand pump methods.





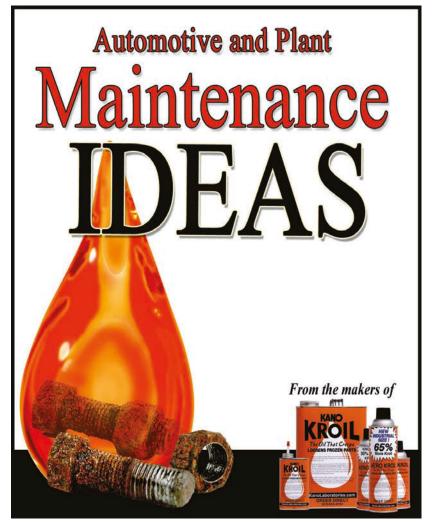
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FREE: Auto and Plant Maintenance Ideas Bulletin

ADVERTORIAL

ore than 100 auto and plant maintenance Ideas, collected from maintenance and operations personnel nationwide, are now available in a revised brochure from Kano Laboratories, the makers of Kroil Penetrating Oil. Included are ideas for removing lug nuts, rusted manifolds, frozen spark plugs, frozen bearings, loosening corroded bolts, frozen brake cables, removing rust, improving belt power transfer, improving engine performance, increasing gas mileage, and much more. Tips were collected from Auto Mechanics, Maintenance Managers and Engineers at Ford, GM, US Steel and many others comprising most of the Fortune 500. Auto and Plant Maintenance Ideas is available at no charge by contacting Kano Laboratories, producers of Kroil since 1939.



www.kanolabs.com/pten

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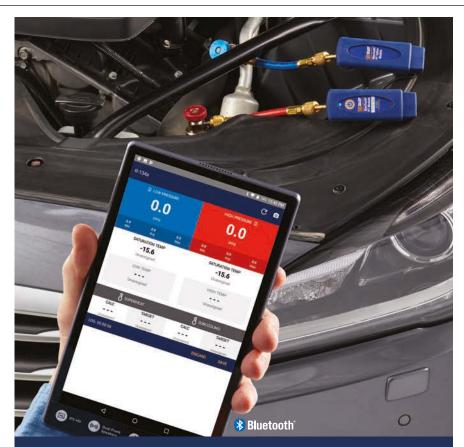


KANOLABORATORIES.COM

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YELLOW JACKET[®] Brings Wireless Technology to A/C System Analysis

t's no secret that a multi-point courtesy inspection is a great way for any service center or dealership service department to generate incremental income. But one often overlooked opportunity is the air conditioning system inside every vehicle that rolls into your shop. A new wireless A/C diagnostic tool from YELLOW JACKET is making it faster and easier than ever to add an in-depth system check to your inspection protocol.



What is a Courtesy Inspection Without an A/C System Check? A MISSED OPPORTUNITY.

Mantooth® Wireless Digital Pressure Gauge

Dial up service revenue by testing every vehicle that rolls into your shop. Our ManTooth[®] Wireless Digital Gauge lets you quickly check an A/C system anywhere on your lot—no need to pull into the service bay or hook up to a larger RMS unit. Readings are transmitted to any Bluetooth[®] enabled smartphone or tablet. The result? Maximum revenue with minimum effort.



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The ManTooth[®] Wireless Pressure/ Temperature Automotive Kit is the industry's first Bluetooth-enabled A/C diagnostic product. Paired with the free downloadable YELLOW JACKET ManTooth[®] app, it lets you quickly test a vehicle anywhere on your lot—no need to pull it into a service bay or hook it up to a larger RMS unit. It provides a precise A/C health status in less than three minutes (on average), with results displayed in an easyto-read format on your iPhone, iPad or Android device. These results can easily be saved or emailed directly from the App.

What could it mean in terms of revenue? Think about the number of vehicles that come through your operation on a daily basis. How many do you think have a low A/C system charge? Given that the current average age of all vehicles on the road is 11.5 years, it's surely a significant number. The attractive profit margin on a typical R134A or R1234yf recharge makes it well worth your time and attention.

To learn more about this innovative approach to automotive refrigerant management, visit yellowjacket.com or contact your YELLOW JACKET sales representative.



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- Clutch Jacks
- Engine Stands
- Floor Service Jacks
- Surface Mounted Lifts
- Fluid Handlers
- Fort Lift Jacks
- Mobile Column Lifts
- Oil Filter Crushers
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- and much more!



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OEMTOOLS 14-pc Drain Plug Socket Set

This set includes 90 percent of the sockets needed for drain plugs, the reviewer says.

by David Brierley, Managing Editor

PRODUCT DESCRIPTION:

The OEMTOOLS 14-pc Drain Plug Socket Set, No. 25374, is a comprehensive set of male and female chrome vanadium drain plug sockets that comes on an aluminum socket rail for increased organization. Each socket has the size etched onto it for easy identification. This set can be used to remove oil drain plugs, manual transmission, transfer case and differential housing drains. It is designed for both foreign and domestic vehicles, including: BMW, Ford, Mazda, Mercedes-Benz, Nissan, Peugeot, Renault and more. The set includes sizes: (Hex) 9mm, 10mm, 12mm, 14mm and 17mm; (Square) 7mm, 8mm, 11mm, 13 mm, 5/16" and 3/8"; (Female Square) 10mm; (Male Triangle) 10mm; and (Tamper-Proof Triple Square) 16mm.

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THE REVIEW:

Pehicles have a variety of drain plugs: from oil pan, to transmission, to transfer case and more. Not only do these different drain plugs come in a variety of shapes and sizes, they also tend to vary by vehicle manufacturer, meaning technicians who work on many different vehicles need even more sockets.

Griffin Pavement Striping's Eric Moore of Columbus, Ohio, says the OEMTOOLS 14-pc Drain Plug Socket Set offers a solution to this problem. The set groups "90 percent of the sockets you could need for drain plugs on light duty vehicles," he says, making it "an easy graband-go" solution.

The drain plug socket set comes packaged in a simple box, and all sockets are attached to an aluminum rail. Since sockets do not require special knowledge to use, no user manual is included.

"Choose the size and shape of socket needed and remove it from the rack," Moore says. Attach the socket to a ratchet, and it's ready to use."

Technicians at DeMary Truck used the drain plug socket set for routine maintenance procedures.

"[We used this product while] draining engine oil on our fleet vehicles, Toyota Tundras and several models of auxiliary power plants on our equipment," Moore says. "A few techs used them on their personal vehicles, from a Kia Forte to a BMW 3 Series."

Moore says that while he and the other DeMary Truck technicians have

used individual sockets previously, "having them all grouped in a set is much more cost effective compared to buying them piece-bypiece or taking them out of [other socket sets] to assemble a quick-draw setup like the OEMTOOLS product."

The only suggestion Moore and the other DeMary technicians had would be to offer a drain plug socket set for medium and heavy duty technicians.

Moore describes the OEMTOOLS 14-pc Drain Plug Socket Set as a "solid offering covering a good range of sockets needed for the tech working on current models." **PTEN**



Weego 66.2 Jump Starting Power Pack

The reviewer appreciated that this pro-grade jump starter could also charge personal devices.

by Stefanie Von Rueden, Assistant Editor

THE REVIEW:

powerful jump starter is an asset to any shop, but one that doubles as a personal electronics power pack offers added value. Reviewer Eric Moore of Griffin Pavement Striping appreciated the utility of this product.

"It held quite a bit of power in reserve," Moore says. "It definitely kept up with demand and kept us from having to chase an outlet each time [our personal devices] needed to be charged."

Moore notes that this unit was easy to use, both as a personal device charger and as a jump starter. When using as a personal power supply, simply plug in the device and turn the unit on. When using as a portable jump starter, select the battery clamps accessory, plug it into the Weego 66.2 and attach to the vehicle battery. The product senses the level of charge in the battery before the relay engages. If the vehicle battery is in the jump starting range, the green light will flash and the relay will close, sending a pre-conditioning voltage to the vehicle battery. A full cranking amp charge will be sent once the starter is engaged by turning the ignition.

Moore used this product to boost several vehicles, including a 2002 Mazda Protégé, 2010 Ford F150 with a 6.2L engine and a 2013 Isuzu NQR with a 5.2L diesel engine.

"The Weego 66.2 didn't struggle with any single task," Moore says. "It is built really compact for the amperage it supplies. The charge indicator lights are bright and clear to see the level of charge, so there's no guessing, and the built-in

PRODUCT DESCRIPTION:

The Weego 66.2 Jump Starting Power Pack offers a 10 percent increase of true cranking amps compared to the company's previous version, to reach 660A. This jump starter weighs 2.5 lbs and delivers a highpowered jump starting charge that works on trucks, tractors, cars, boats and light duty equipment. The company's patented Smarty Clamps firmly contact hard-toreach terminals found in many commercial vehicle battery compartments. This starter can charge personal electronics with 5V USB and 19V outputs, powers 12V portable accessories and provides ultrabright light with a 600 lm dual LED flashlight. This product is backed by an 18-month warranty.

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flashlight seemed bright enough to use in just about any circumstance if needed."

He noted the rugged durability of this product as well.

"It took more than a few tumbles with no damage," Moore says. "My nieces were using it over the holiday to keep their devices charged while watching YouTube. That let me see just how tough it really was."

Moore has used a variety of portable power packs and jump starters in the past, and notes that the Weego 66.2 is more compact than most.

"The smart feature on the Weego was nice because you wouldn't be able to leave it 'hot' and accidentally cross the leads up to produce a spark," Moore says.

He had no issues while using this product.

"Everything it did, it did well without fail." **PTEN**



IPA Flow-Thru System with Brush and Venturi, No. 8091

The reviewer was impressed by the portable nature of this cleaning system.

by Sara Scullin, Editor

THE REVIEW:

S ince cleaning up is part of the maintenance and repair operation, it helps when you can do so efficiently while still taking care to protect and maintain valuable parts and equipment.

Audeliz "Junior" Mejias, a technician at Five Star Automotive Specialists in Southbridge, Mass., has had his fair share of cleanups. For this review, he enlisted the help of the Flow-Thru System with Brush and Venturi, No. 8091 from Innovative Products of America. This system is built to thoroughly clean and degrease in either a parts-washing sink or anywhere an air supply is available.

Mejias enjoyed the flexibility the Flow-Thru System offered compared with traditional cleaning options, particularly the ability to use his own solvents and step away from the parts washer.

To start, Mejias was impressed with how the product was packaged. "It comes in a nice blow-molded case and everything has a spot for itself; nothing is rolling around. It even has some instructions



in the box itself (a decal) so you don't have to worry about losing a paper or anything like that."

The Flow-Thru System comes with a nylon head and stainless steel brush. "Putting it together is convenient," says Mejias. He selected the cleaning head he wished to use, and then put the pieces together. "It's pretty self-explanatory but there are instructions on how to assemble."

Mejias points out technicians can use their shop's air supply or even a universal air supply with a hose and hose clamp. He

PRODUCT DESCRIPTION:

The Innovative Products of America Flow-Thru System with Brush and Venturi, No. 8091, features stainless steel and abrasive nylon brush heads, as well as a venturi that attaches to an ergonomic, anodizedaluminum handle with integrated flow-control valve to clean, restore and apply solvents under pressure. This system offers improved cleaning action in a partswashing sink or portable cleaning anywhere air supply is available. This tool is ideal for applications including parts washing, degreasing, on-engine cleaning, fluid evacuation and more.

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> used the Flow-Thru System to clean excess oil, buildup and "crud" off of valve covers.

"I thought it was an awesome idea," Mejias says. In the past, Meijas had used a standard parts washer, brake cleaner and a wire brush. "I think this is ... a little bit better because you can choose what kind of solvents you want — maybe something that's non-volatile.

"You can use it pretty much wherever you can get an air supply hose to, and then just use with a 5-gallon bucket (or something similar). It's really easy to use, and I also like that you can adjust the airflow through the venturi; there's not just an 'on' or 'off.""

Mejias appreciated this system, from its cleaning power and practicality, down to the "nice, anodized red color."

There wasn't a feature he would change.

"[The Flow-Thru System] is really easy to use, and it felt like a quality piece," he says. **PTEN**



Lincoln 12-Volt Lithium-Ion Cordless PowerLuber

A lightweight, cordless grease gun.

by Vesna Brajkovic, Contributing Editor

PRODUCT DESCRIPTION:

The **Lincoln-branded 12-Volt Lithium-Ion PowerLuber** is designed to simplify and speed up the manual lubrication process. The PowerLuber features a Li-ion battery and delivers grease at up to 8,000 psi. Its three-point base keeps the tool upright, which helps prevent dirt and debris from entering the motor. The grease gun's ergonomic, lighter-weight construction is designed to reduce operator fatigue and allow access to tight areas. The tool's new dual-lip follower enables bulk or cartridge delivery and eliminates grease bypass. The 12V PowerLuber has a bright, built-in light emitting diode (LED) to illuminate the work area. Also, the grease gun has an integrated hose holder and tube guide for secure hose storage and easy threading of the grease barrel.

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THE REVIEW:

umping grease manually may work fine if there are only a couple grease points, but compared to pneumatic and cordless grease gun options, it's time consuming, explains Matt Fanslow of Riverside Automotive in Red Wing, Minnesota.

Pneumatic grease guns could be the answer, but still require technicians to drag an air hose behind them as they work. That's where cordless options come out on top.

"Cordless offers the accessibility of manual and the speed of pneumatic," Fanslow says.

Compared to all the cordless and pneumatic grease guns Fanslow and his technicians have used in the past, Lincoln's 12-Volt Lithium-Ion PowerLuber is the most lightweight grease gun they've ever worked with.

The technicians, who use the PowerLuber mainly for maintenance and part replacement of suspension joints and universal joints, found that the tools' lightweight construction and cordless feature makes them more efficient on the job.

What's more, the PowerLuber includes an LED light feature.

"The LED flashlight on top was very much a welcome surprise," Fanslow says. "Weight and the light are the two things all of our techs commented on."

The grease gun also packs a punch, and "has the power you would expect from a pneumatic" option. One technician at Riverside Automotive was wary that the grease gun's 12 volts would be too weak for the job.

"He was proven wrong and he was glad to be wrong," Fanslow says.

To set up, users must charge the battery and install a grease car-

tridge before use. Besides the grease itself, everything need-

ed for the tool is stored in a blow molded case. Fanslow says it's "extremely" easy to use and, once charged, the battery connects like virtually any other cordless tool in the shop.

"It does what you expect and more," Fanslow says of the tool. "It's a grease gun, for crying-out-loud, yet it does that like you would expect a premium grease gun to do, and then they add the thoughtful feature of a light. It is a great feature and well appreciated by the techs under the vehicles servicing them." **PTEN**



Coast Focusing LED Stretch Flashlight with COB Area Light

by David Brierley, Managing Editor

PRODUCT DESCRIPTION:

The Coast Focusing LED Stretch Flashlight with

COB Area Light, No. PX250, is a flashlight that includes a COB area light with white, red and flashing red light modes. By sliding the body open, users can quickly access the 270 Im area light, which is ideal for illuminating the undercarriage of vehicles or dark spaces under the hood. The PX250 also features a magnetic tail cap, allowing the flashlight to be affixed to any metal surface. The 650 Im flashlight features patented Pure Beam Focusing Optic with Twist Focus, and an easy rotation of the bezel allows users to utilize a Wide-Angle Flood for area or a Bulls-Eye Spot Beam for distance. The flashlight and optic area light can be used at the same time to help make automotive tasks more efficient.

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COAST: PIZE



t is difficult for technicians to work with accuracy and efficiency if they can't see what they're doing, so it's important to have a strong and reliable flashlight to illuminate the workspace. Audeliz Mejias of Pleasant Street Automotive in Southbridge, Massachusetts, was pleased to find the Coast Focusing LED Stretch Flashlight with COB Area Light, No. PX250, works well as a regular flashlight, plus much more.

The standard flashlight functionality comes in the form of Coast's Pure Beam Focusing Optic with Twist Focus, which allowed Mejias to focus the light on one area, or widen the beam for a more inclusive lighted area.

"The Pure Beam Focus is very nice," he says. "You can easily switch from focused beam to flood light and anywhere in between simply by twisting the head of the flashlight."

Mejias notes he liked "the very strong magnet on the base of the flashlight." The

magnet allows for hands-free operation a useful feature when a technician needs both hands to complete a task.

In addition to the flashlight functionality, Mejias found this Coast product had a few tricks up its sleeve... literally.

"The handle slides open to reveal an SOS-style red light as well as a standard color LED," he says. "In the event of a roadside emergency, you could stand this flashlight on your vehicle securely with the flashing red light illuminating towards oncoming traffic."

The white area LED hidden in the handle, along with the magnetic base, also allowed the flashlight to be used as a shop worklight.

When he received the light, Mejias was impressed with the packaging, saying it was "similar to what you would receive a high-dollar electronic device in." He even went so far as to compare it to the type of packaging a new iPhone comes in.

Mejias notes that the package included

batteries for the light, as well as a user manual, which "gave simple and precise directions on using the Pure Beam Focus function, as well as the different lighting modes it offers." But he also says the manual is hardly necessary, since operation of the light is "simple."

One feature Mejias would like to see added in the future is the ability to recharge the light or use a rechargeable battery pack instead of having to replace the batteries occasionally.

This didn't detract from the overall usefulness of the light in his eyes, however.

"This [light] can be used for anything and everything," he concludes. "[It's an] everyday tool to keep in your pocket." **PTEN**







PERFORM A/C SYSTEM CHECKS IN UNDER THREE MINUTES

The Yellow Jacket ManTooth Wireless Pressure Temperature Gauge Automotive Kit uses Bluetooth technology and an app to help service centers and technicians perform accurate vehicle A/C system checks in less than three minutes, according to the company. The kit features two wireless Bluetooth gauges, high impact glass reinforced housing, both R-134 and R-1234yf 5" couplers, two temperature clamps, A/C charging adapter and USB cord and a rugged case. The app is available for iPhone, iPad or Android devices.

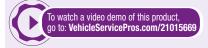
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CAN STOP LEAK REPAIR PRODUCTS CAUSE PROBLEMS?

In the first episode, Bobby J of Bar's Leaks addresses the issue of stop leak products clogging up cooling systems.

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IMPROVES A/C PERFORMANCE

Errecom Cool-Shot Ultra is an additive designed to improve the performance of air conditioners, ensuring a very low energy consumption and reduction of CO2 emissions. Cool-Shot helps prevent oil fouling from oil remains that settle on the walls of the air conditioning unit. This product acts without causing any chemical changes to the compressor lubricant or the refrigerant gas, according to the company. **Circle 120 on card, or enter at "e-inquiry" on VehicleServicePros.com**



FOR USE WITH ALL REFRIGERANTS

The **Mastercool TwinTurbo Refrigerant Recovery Machine**, No. 69360-22, is designed for maximum recovery capacity while decreasing size and weight. This unit offers an oil separation module, filter dryer and sight class. This unit is idea for refrigeration trucks and features a double piston oil-less compressor, safety high pressure switch and simple internal structure for field service. This unit is for use with all refrigerants, including R22, R404, R407C and R401a. **Circle 123 on card, or enter at "e-inquiry" on**







PINPOINTS LEAKS IN A/C SYSTEMS

The Tracerline TP-8659 OEM-Grade R-1234yf A/C Leak Detection Kit is designed to pinpoint leaks in automotive A/C systems. The kit features premiumquality, fluorescent dyes. The kit includes TP-8655 OPTI-PRO plus, a cordless, violet light leak detection flashlight with a rechargeable battery; the EZ-Ject A/C dye injector assembly with hose/coupler and purge fitting; a 0.5 oz EZ-Ject R-1234yf/PAG multi-dose A/C dye cartridge for servicing up to 14 vehicles, a smart A/C charger and fluorescence-enhancing glasses. All components are packed in a sturdy carrying case. Circle 121 on card, or enter at "e-inquiry" on VehicleServicePros.com



NO NEED FOR NITROGEN OR UV DYE

The **Matco Tools Diagnostic Leak Detector**, No. K195-0014B, offers full featured diagnostic capabilities with no need for nitrogen or UV dye. The detector includes a compound gauge to test cars with natural vacuum as well as pressure decay leak down tests. It is simple to use with one button and one knob, and is capable of testing up to 0.0010 leaks. The detector works with a shop 12V battery and uses mineral oil. It includes a complete accessory kit with a plastic carrying case.

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FOR R-1234YF, R-134A AND R-12 EQUIPPED VEHICLES

The **Neutronics Legend Series Refrigerant Analyzer** is designed to meet the service needs of R-1234yf, R-134a and R-12 equipped vehicles. Certified to the SAE J2912 standard, this tool connects directly to SAE J2843 and J3030 A/C service machines that have an external analyzer USB port. This analyzer offers 10 built-in languages, a 5" color display, soft touch input keys and a tough ABS display window with rubber bumper corner protection. Other features include an internal lithium

battery, optional printer and Bluetooth output, as well as a rugged storage case. Software can be updated by simply downloading the latest version from the company's website and installing it using a flash drive. A one-year warranty is included on all product versions.



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RESULTS DISPLAYED VIA CARSMART APP

The **CPS CarSmart Inspector** is designed to enable A/C inspection on every vehicle by providing an accurate, easy to learn and non-invasive A/C system performance analysis. The CarSmart A/C inspector

indicates whether the A/C system is operating within OEM specifications by comparing outside humidity and temperature to the inside vent temperature. The results are displayed on any smart device using the CPS CarSmart app. The app allows users to communicate the results of the inspection by email directly to the customer.



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RECOVER, RECYCLE, EVACUATE AND CHARGE DIFFERENT REFRIGERANTS

The **Robinair 17800C Multi-Refrigerant Machine** is designed to recover, recycle, evacuate and charge many different refrigerants and systems, all in one fast and continuous operation through one hook-up. This unit automatically leads the user

through its operations and sends specific notifications when its time to change the filter drier and vacuum pump oil, plus adjusts from liquid to vapor for fast and efficient recovery. The machine is ideal for mass transit vehicles, buses, refrigerated trailers or containers and other applications that use refrigerants other than R-134a. Notable features include a 5cfm vacuum pump, manual air purge function and easy-to-use 4.3" color graphical display.



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FULLY AUTOMATED WITH CUTTING EDGE CONNECTIVITY

The **MAHLE ArcticPRO R-1234yf and R-134a Refrigerant Handling Systems**, No. AXC2280 and AXC2180, are fully automated and offer cutting edge connectivity and maintenance features, including Bluetooth, Wi-Fi, a large touchscreen, a status monitoring app and remote service. In addition, these systems feature a small footprint, a single-handed service door

and an intuitive user interface. These systems are designed to streamline safe and precise A/C refrigerant handling for shops.

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LONGER 12' HOSES FOR MORE VERSATILITY

The **Mac Tools R134A Semi-Auto A/C Service**, No. ACR220M, allows users to recover, vacuum and charge, and the offering provides longer

12' hoses for more versatility when raising vehicles and working on large trucks. The unit's 1.5 cfm, two-stage pump provides a fast and powerful vacuum, and also features a fullcolor, multilingual 5cm by 9cm display. The ACR220M includes an optional on-screen vehicle refrigerant and oil specification database. An automatic air purge eliminates air from the system, and the unit offers a 98.5 percent recovery efficiency. SAE J2788 certified, the ACR220M displays refrigerant use and monitors filter life.



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DESIGNED FOR A FASTER EVALUATION

The **OTC Universal Cooling System Pressure Test Kit**, No. 6977, is designed for a faster evaluation with a universal approach by eliminating the search for the right cap adapter. The hand pump

features an easy-to-read pressure gauge with a padded base to prevent vehicle scratches, and a 36" pressure hose with quick-connect. The hose adapters use brass fittings for increased durability and includes a banded spring clamp for easy attachment. Each of the four adapters include a Schrader valve to prevent spray when disconnecting and come in four sizes: 1/4", 5/16", 1/2" and 5/8" in diameter.



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HANDLES R-134A AND R-1234YF REFRIGERANTS

The **Snap-on Polartek Dual A/C Machine**, No. EEAC334, is designed for recovering, recycling and recharging vehicle A/C systems. The unit

handles both R-134a and R-1234yf refrigerants, with dedicated 30-lb refillable tanks for each to reduce the risk of crosscontamination. This machine features a quick setup software guide and 10" graphic touchscreen for easy navigation. The large status light allows techs to monitor progress while doing other jobs. The unit also offers large wheels for improved portability, vehicle database, an on-board printer and two sets of 120" service hoses.

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HELPS LOWER REPAIR COSTS AND SERVICE TIME

The **Techno Tools Corp. Mobile Air Conditioner Compressor Electronic Control Valve Tester**, No. EVDC100, tests electronic control valves in variable displacement mobile air conditioner compressors. This OEM-approved tool is placed in-line between the control valve and the wiring harness connector, and the electronic control valve regulates internal compressor pressure to change

the compressor displacement. The tester regulates the input signal to the valve to verify the valve's operation. Manually controlling the operation and function of the valve helps lower repair costs and service time and eliminates compressor misdiagnosis and unnecessary compressor replacement, according to the company.

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UP TO 10 PERCENT BRIGHTER FORMULA

The **Tracer Products Fluoro-Lite 5 UV Dye** is an improved fluorescent dye formula that is up to 10 percent brighter than previous formulas, the company says, and offers a shelf life of up to five years. Other notable features include increased resistance to extreme temperature ranges of moisture; co-solvent free to maintain viscosity and lubricity; and is made of natural, safe raw materials. This dye is designed to protect vehicles long-term once in the system, so users can tell if other leaks show up.

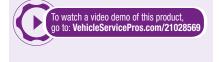
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ESTIMATING AUTOMOTIVE COOLING SYSTEMS — REPAIR UNIVERSITY LIVE

CPS Products and I-CAR join the Repair University to discuss automotive cooling systems in collision repair. What's required? What's included? What's not included? Download the CPS Products Checklist here.

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REMOVE AIRLOCKS WHEN REFILLING THE COOLING SYSTEM

The **OTC Cooling System Refilling Gun**, No. 6976, incorporates deep vacuum technology to remove airlocks when refilling the cooling system, eliminating the need for system bleeding and interchanging horses. With universal attachment onto most radiator and header tanks, the tool allows technicians to pull air out of the coolant system easily while new coolant is added without spills or waste. The integrated vacuum gauge automatically tests for leaks, while the rubber cones suit both passenger and commercial vehicles with no adapter needed.

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www.amgohyd.com 803-505-6410

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TEST A/C COMPRESSOR OPERATING EFFICIENCY

The **AirSept EVC-1 Variable Displacement Compressor Tester** offers a quick, simple diagnostic process to help rule out an electronically-controlled compressor as a cause of air conditioning system performance problems. It is designed to activate the compressor's electronic control valve to test compressor operating efficiency. It works on all clutchless, direct drive, electronically-controlled air conditioning compressors. The EVC-1 connects to the compressor sor and to its electronic control solenoid valve wiring harness. It bypasses the vehicle A/C system controls, and activates the valve directly to increase or decrease the mechanical load on the compressor in increments. The EVC-1 shows the A/C system high and

low side temperature changes in response to the varying load command from the electronic control solenoid valve. The unit sends commands to the compressor's electronic control solenoid valve without having to connect to the vehicle's electrical system. Thus, it does not disrupt any A/C system circuits, and will not set an error code in the vehicle's on-board diagnostic system.

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NEWS



AIRSEPT INTRODUCES NEW SMART SPLICE PRO SERIES EXTENSION AirSept, an industry leader in the development of OEM and aftermarket solutions for complex automotive repair problems,

introduced Smart Splice Pro Series - Trans & P/S (No. 78019), the newest extension in its line of products for quick, durable line repair. The new kit provides technicians everything needed to fix a damaged metal line or connect a metal line to a hose for transmission and power steering service in five minutes, with no line removal needed, the company said. The Smart Splice Pro Series - Trans & P/S includes 16 repairs, making it ideal for repair shops. With Smart Splice connectors for straight, 45 degree and 90° degree line-to-line repairs along with Smart Splice connectors for line-to-hose repairs, technicians have everything needed to quickly and effectively repair or build almost all transmission lines and power steering return lines, according to the company. To read the full article, visit: **VEHICLESERVICEPROS.COM/21069552**

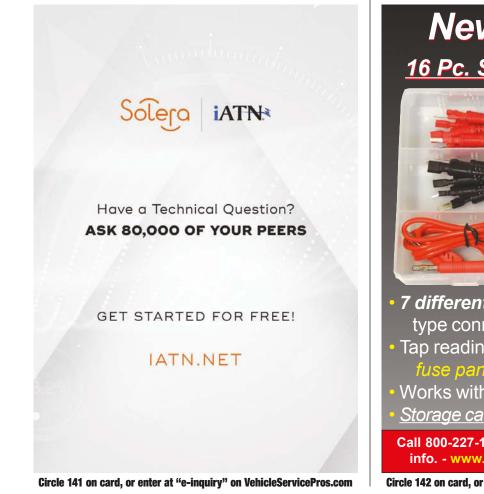
ASK THE EXPERT



ARE SHOPS READY FOR HF0-1234YF REFRIGERANT?

2018 model year vehicles are proof that the OEs' transition to HFO-1234yf refrigerant is well under way. This year, shops will start seeing vehicles that were early adopters of the new refrigerant coming off warranty and needing A/C system services. Are technicians ready to

service these vehicle A/C systems? Servicing an HFO-1234yf system will require updated technician training, along with new equipment, in order to service these systems properly and safely. So, what is needed to be ready for servicing HFO-1234yf systems? As of January 1, 2018, a certification card is required in order for shops to purchase cylinders containing more than 2 lbs of HFO-1234yf refrigerant. Shops will need an A/C RRR unit SAE certified for use with HFO-1234yf refrigerant. To read the full article, visit: vehicleservicepros.com/21005161



New Test Kit ! 16 Pc. Spade Terminal Set



- 7 different sizes of flat/spade type connnector terminals
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NEWS



MACS 2019 TRAINING EVENT BRINGS OVER 700 ATTENDEES

The theme of MACS 2019 Training Event was A/Ccess to mobile A/C technical information but the vibe was enthusiasm and engagement from the over 700 attendees. The MACS 2019 Training Event and Trade Show took place February 21-23 at the Anaheim Marriott in Anaheim, California. MACS exhibit space was sold out hosting 72 exhibitors and 84 booths. "This year's attendees were particularly engaged in and enthusiastic about our training classes and we are grateful for all the presenters, exhibitors and sponsors who participated and supported the MACS event," said Elvis L. Hoffpauir, MACS president and chief operating officer. "We are also looking forward to our 40th anniversary Training Event in 2020 at the Gaylord Opryland Hotel and Convention Center in Nashville next February 19-22." To read the full article, visit: VEHICLESERVICEPROS.COM/21070788

ASK THE EXPERT



FOR SERVICE CENTERS **TO BRING IN REVENUE?** A: It's no secret that a multi-point courtesy inspection is a great way for any service center or dealership service

WHAT IS A GOOD WAY

department to generate incremental income. But one often overlooked opportunity is the air conditioning system inside every vehicle that rolls into your shop. A new wireless A/C diagnostic tool from Yellow Jacket is making it faster and easier than ever to add an in-depth system check to your inspection protocol. The ManTooth Wireless Pressure/ Temperature Automotive Kit is the industry's first Bluetooth-enabled A/C diagnostic product. Paired with the free downloadable Yellow Jacket ManTooth app, it lets you quickly test a vehicle anywhere on your lot no need to pull it into a service bay or hook it up to a larger RMS unit. It provides a precise A/C health status in less than three minutes (on average), with results displayed in an easy-to-read format on your iPhone, iPad or Android device. To read the full article, visit: VEHICLESERVICEPROS.COM/21009794

VEHICLESERVICEPROS

ASK THE EXPERT

DEM .	Tell A In	Personalizes of	of the London	CEN	Tated	Participan of Art 1964	Prosentage are-upper
Acura		100%	475	JLR	1.0	05	100%
Audi		78%	12%	Sie .	15	32%	78%
EMW	. 11	- 25	100%	Lerus		89%	125
Buick		82%	12%	Lincole	1	40%	425
Chevrolat	10	21%	48%	Manda		100%	15
FCA		125	67%	Mini	1	25	100%
Fard	14	17%	675	Mitsubishi		175	575
Genesis	1	12%	67%	Musan	10	100%	25
GMC		17%	43%	Ram	1	67%	10%
Handa		22%	79%	Subaru	1	71%	275
Hyundai		79%	275	Toyota	14	75%	195
Infinity .		100%	25	Walve	4	100%	25

HOW MANY LIGHT DUTY OES USE **HF0-1234YF REFRIGERANT?**

Starting with Fiat Chrysler and General Motors in 2014, the automotive industry switch to HFO-1234yf refrigerant is well underway. For the 2018 model year as expected, the list of OEMs using the new refrigerant continues to grow. Currently about 50 percent of all new model vehicles for 2018 are using HFO-1234yf. A few of the OEMs (BMW and Mini) decided to change all of their models over to the new refrigerant at one time. In 2017, none of the 11 BMW models were using R-1234yf. The total number of OEMs using R-134a exclusively continues to decline. With vehicles that were early adopters of HFO-1234yf starting to come out of warranty, it is important for technicians and service repair shops to be prepared to be able to service these vehicles. This includes technician training and certification, as well as having the proper service equipment designed to meet the new SAE standards for HFO-1234yf. To read the full article, visit: vehicleservicepros.com/21005163



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BIG-TIME BOXES

AS

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

A mobile toolbox Thinking outside the box with a custom setup.

by Stefanie Von Rueden, Assistant Editor

mobile technician needs to think outside the box when it comes to a toolbox, and that's precisely what Mike Reynolds, owner and diagnostician of Mobile Automotive Service Solutions in Charleston, South Carolina, did. Reynolds has been a technician for 13 years, and he specializes in mobile diagnostics, programming, R-1234yf service, ADAS calibrations and training.

Reynolds purchased his initial toolbox, a Matco 4S Series Triple Bay box, new in 2007 and eventually added a side locker and bench top. But as he transitioned from a technician to a mobile diagnostician, he realized he needed a way to make his toolbox completely portable.

The solution? Reynolds removed the wheels and accessories and mounted the toolbox in an IDI diesel-powered Ford E-350, running power into many of the drawers so he is able to keep scan tools and computers secure and charged.

"The ambulance chassis is a repurposed SWAT team truck that I purchased with less than 75,000 miles on it," Reynolds explains. "I went with an

OWNER: _____ Mike Reynolds

Mobile Automotive Service Solutions Charleston, South Carolina

[earlier] model chassis to avoid issues caused by modern emissions systems. Each compartment is utilized to allow easy access to tools while on the job."

Reynolds also added a homemade collapsible tool cart to one of the side compartments. In the rear are two programming power supply units, one portable and one with a 25' battery cable. Adjacent to the jump seat, a swivel-out desk has been mounted with a removable laptop and full function printer to create a mobile office.

"Keeping tools organized is key in a mobile truck," Reynolds says. "I use Kaizen foam for much for the tool storage."

Velcro keeps computers, routers and other key items from shifting during the drive, and he uses a custommade scope lead and banana jack

Reynolds removed the wheels and accessories from his Matco toolbox to mount it into a truck.

probe organizer to help keep test leads organized and untangled.

"I've found that using bright colors under the tools helps me easily identify when one is missing while packing up," he says.

Reynolds' favorite feature of his mobile toolbox is the electrical system, which is comprised of a high-amp alternator, 2,000-watt pure sine wave inverter/ charger and two Hawker batteries separated from the two engine batteries by a key-on power cut solenoid. "The entire system can be monitored and tracked by a cellphone, which can also remote start and disable the engine," he says.

But, this custom setup is just the start for Reynolds, who is planning to add a "lite" version of his current mobile toolbox in the future, which he will operate as a satellite programming-only truck. **PTEN**

Want to see more photos of Reynolds' box? Visit: VehicleServicePros.com/21071544



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