

# PTEN

Professional Tool & Equipment News

The Independent Tool Authority

**Category  
Spotlight:**  
Tire and  
wheel service  
page 50

## Steelman PRO COMMAND POST<sup>3</sup> modular light

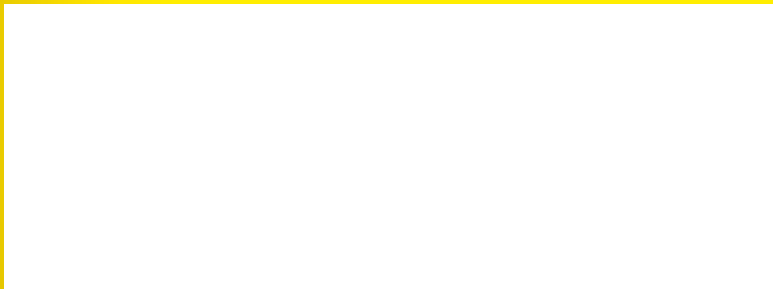
By JS Products



Details on the cover products,  
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The prevalence of  
vehicle programming  
page 42

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Technician feedback on products  
from Portacool, Coast Products,  
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page 46



- ▼ Includes complete vehicle coverage
- ▼ Nine drawers and a flip-top lid
- ▼ Portable emissions monitoring



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3893 - Encore diagnostic and repair tool



7215 - Exhaust back pressure gauge



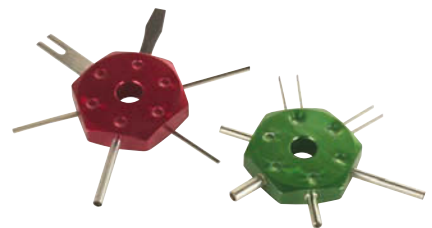
4493 - Angle-tip relay pliers



3634 - Heavy-duty circuit tester



4460 - Electrical connector separator tools



4822 - Wire connector tool set

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Owner: Jeff Milburn

Shop: Automotive Fabrication

Location: Dallas, Texas

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ahead of the curve

SEMA  
SPECIALTY EQUIPMENT MARKET ASSOCIATION

## On Our Cover

Steelman PRO  
Command Post<sup>3</sup>  
Modular Light  
by JS Products



# FULLY LOADED FOR MAXIMUM IMPACT



GearWrench innovation has come to impact tools. With an expanded selection of sockets, universal and pinless universal sockets, hex bit sockets, standard and locking extensions, universal joints, and adapters, GearWrench has the impact styles and sizes you need to tackle any job. And now, with six powerful new GearWrench 80 Series and 81 Series air impact wrenches to choose from, there are even more ways GearWrench helps you Get It Done™.



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### TOOL REVIEW

The SP Air Recipro Saw, No. SP-7610, designed with a swivel air inlet, rear air exhaust, air regulator, blade guide and safety lever is powerful enough to cut steel, FRP, rubber and resin objects such as bumpers. The SP-7610, 8.15" in length, weighs 1.3 lbs and has an air consumption of 2.7 cfm and sound level of 86.5 dB. To read the full review, visit [VehicleServicePros.com/12229146](http://VehicleServicePros.com/12229146)

### Article



The top three battery testing technical questions solved. Save some time and learn how you may be able to remedy these common battery testing issues on your own. To read the full article, visit: [VehicleServicePros.com/12243757](http://VehicleServicePros.com/12243757)

### Blog



One of the most overlooked and underappreciated aspects of a shop environment is the safe practice of correctly lifting and supporting vehicles while maintenance is being completed. To read the full article, visit: [VehicleServicePros.com/12243624](http://VehicleServicePros.com/12243624)

### Video



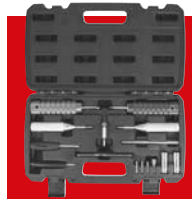
This video explains the features and demonstrates the many uses of the Texas Twister from Lock Technology. To watch, visit: [VehicleServicePros.com/12236009](http://VehicleServicePros.com/12236009)

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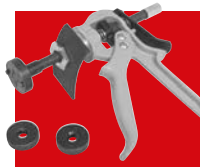
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### Featured Products



#### TPMS Tool Sets, Nos. 98031 and 98032

JS Products, Inc. (Steelman)  
[VehicleServicePros.com/  
12229685](http://VehicleServicePros.com/12229685)



#### Combination Disc Brake Kit, No. 29350

Lisle Corporation  
[VehicleServicePros.com/  
12206288](http://VehicleServicePros.com/12206288)



#### VT36 TPMS sensor activation and programming tool

ATEQ TPMS Tools, LC  
[VehicleServicePros.com/  
12231450](http://VehicleServicePros.com/12231450)



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The Independent Tool Authority

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 SENSOR BATTERY STATUS**  
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 FROM THE AT A GLANCE SCREEN



LEVEL 1 TPMS DIAGNOSTICS

**TS401**

NEW

**PROGRAM  
 MX-SENSORS**  
 AND NEW GRAPHIC DIRECTIONS  
 FOR RELEARN PROCEDURES



COMPLETE TPMS DIAGNOSTICS  
 OBDII CONNECTION

**TS601**

NEW

**TPMS STATUS SCREEN  
 SENSOR BATTERY STATUS**  
 AND NEW TOOL TIPS TO IDENTIFY FIXES  
 FROM THE AT A GLANCE SCREEN

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Entrants in the Great Prize Giveaway promotion must be a professional owner, manager or technician responsible for repairing and/or maintaining vehicles. Each entrant must be an employee of a fleet facility or vehicle service center as of August 31, 2016. Each entrant can register for up to five (5) products per day. Product registration entries may be submitted from 12:00 a.m. C.S.T. on September 1, 2015 through 11:59 p.m. C.S.T. on October 31, 2016 ("Entry Period") at VehicleServicePros.com. No other method of entry will be accepted. Southcomm Business Media, LLC's computer is the official time keeping device. Winners will be selected at random from all eligible entries received during the Entry Period. Odds of winning depend on the actual number of entries received for each product during the Entry Period. There is no limit on the number of products an entrant may win. Employees of Southcomm, Inc. or any Product Sponsor(s), their immediate family members (spouses and siblings, children and parents and their spouses, regardless of where they live), and members of their households (whether related or not) are not eligible to participate. Southcomm Business Media, LLC reserves the right to disqualify any entry. No purchase or subscription is necessary to win. Prize values may be rounded to the nearest dollar, or \$100. Purchase of or subscription to any Southcomm Business Media, LLC-related publications does not increase chances of winning. The Great Prize Giveaway promotion shall be governed exclusively by the laws of the State of Tennessee. Void in Florida and where prohibited or restricted by law. The full list of rules and regulations can be found at VehicleServicePros.com/GPG.

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**VT56 Diagnostic Kit**  
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[VehicleServicePros.com/12246217](http://VehicleServicePros.com/12246217)



**Coast Products 13-Item Flashlight Prize Package**  
Prize value: \$1,200  
[VehicleServicePros.com/12239611](http://VehicleServicePros.com/12239611)



**KNIPEX Tools**  
**16-pc Tool Set**  
Prize value: \$1,200  
[VehicleServicePros.com/12239628](http://VehicleServicePros.com/12239628)



**ProMaxx Rocky Pro Kit**  
Prize value: \$595  
[VehicleServicePros.com/12223999](http://VehicleServicePros.com/12223999)



**Autologic**  
**Assist Solution Package**  
Prize value: \$15,040  
[VehicleServicePros.com/12248625](http://VehicleServicePros.com/12248625)



**Gage Bilt GB722 Blind Rivet and Lockbolt Installation Tool**  
Prize value: \$1,000  
[VehicleServicePros.com/12236672](http://VehicleServicePros.com/12236672)



**Mayhew Tools**  
**Specialty Tool Prize Package**  
Prize value: \$704  
[VehicleServicePros.com/12245579](http://VehicleServicePros.com/12245579)



**SP Air Impact Tool Prize Package**  
Prize value: \$677  
[VehicleServicePros.com/12245596](http://VehicleServicePros.com/12245596)



**Beta Tools 8-Drawer Bench Top Tool Box**  
Prize value: \$1,725  
[VehicleServicePros.com/12230660](http://VehicleServicePros.com/12230660)



**OEMTOOLS**  
**41" 10-Drawer Contour Chest and Cabinet Combo**  
Prize value: \$999.98  
[VehicleServicePros.com/12246209](http://VehicleServicePros.com/12246209)



**Monster Tool Package**  
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[VehicleServicePros.com/12246772](http://VehicleServicePros.com/12246772)



**Steelman Pro Professional Lighting Package**  
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**Chicago Pneumatic 8 -pc Air Tool Prize Package**  
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[VehicleServicePros.com/12245624](http://VehicleServicePros.com/12245624)



**Homak**  
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[VehicleServicePros.com/12246783](http://VehicleServicePros.com/12246783)



**OTC Tool Prize Package**  
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[VehicleServicePros.com/12249952](http://VehicleServicePros.com/12249952)

# Editor's Note



## Who owns the data?

The industry is fighting to establish the vehicle owner as the proprietor of a vehicle's data. That's why it's important to educate the consumer on what that means.

By Erica Schueller, Editor  
Erica@VehicleServicePros.com

**W**hile telematics continues to be a prominent topic in the aftermarket industry, it's been pushed more by key aftermarket industry groups that OEs play nice by allowing access to the information gathered from the ever-increasing data collected from vehicles.

Until now.

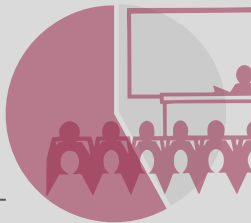
In a push to become more visible and a priority to consumers, the automotive aftermarket, led by the Auto Care Association, has long held that the owner of the vehicle owns the vehicle's data. Now, there is been a focus to get the vehicle owner more involved.

When a consumer purchases a vehicle, they're likely unaware of all of the data being emitted from that vehicle at any given time. Once the consumer is privy to this information, they're under the impression that the data their vehicle transmits belongs to the purchaser (e.g. the vehicle owner). But that's not the case presently. For vehicles with Internet connection capabilities (e.g. that handy touchscreen dashboard interface), all of this data is being transmitted and collected by the auto manufacturer — everything from vehicle performance to driver behavior.

In a world with cloud computing, smartphones and the continuing evolution of all things digital, both the amount of data collected and the concerns for how this information will be used continues to grow.

There's good reason to educate consumers about this data and to get involved in the discussion over who owns and has access to this data, especially when it comes to aftermarket repair shops. Consumers dictate when and where their vehicle is serviced.

**62%**  
of consumers  
haven't heard  
of telematics



**81%** of consumers think  
vehicle owners should decide  
who has access to telematics data

**Half**  
of consumers  
assume car  
owners have  
access to the  
data their car  
produces

**7** out of 10  
think their vehicle  
data being  
transmitted  
to the auto  
manufacturer is  
a problem and  
demand a change.

Information provided by:  
Auto Care Association

"Vehicle owners own the data being generated by their vehicles and they should be able to use that data to direct the service of their vehicles to the location of their choice," say officials with the Telematics Task Force ([www.aftermarkettaskforce.org](http://www.aftermarkettaskforce.org)).

"If alerts to vehicle owners and the supporting technical information necessary to repair the vehicle are available to both franchised dealers and independent vehicle service providers, the vehicle owner gains value in their ownership experience."

The question now is, how can the industry—aftermarket shops specifically—push consumers to act? **PTEN**



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# FEATURED New Products



## Portable emissions monitoring

The **E Instruments Automotive Exhaust Gas Analyzer**, No. F5000-5GAS, is a complete portable tool for automotive emissions monitoring. The F5000-5GAS is used for engine tuning and maintenance, pre-compliance verification and vehicle diagnostics. It has CO, CO<sub>2</sub>, HC NDIR sensors and O<sub>2</sub>, NO/NO<sub>x</sub> electrochemical sensors. It is lightweight, portable and durable, featuring Lambda and AFR

calculations. The F5000-5GAS also features real-time data-logging PC software, with Bluetooth connectivity, a rechargeable battery, a 12" probe with S-type fitting and exhaust clamp, an optional flexible probe tip and wireless Bluetooth printer for on-site reports.

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## Nine drawers and a flip-top lid

The **SK Hand Tool 56" Oversized Caster Mobile Pit Cart**, No. 56562, offers nine drawers and a flip-top lid with industrial gas struts. Part of the SK Tool Box line, this cart measures 56" wide by 48.5" high by 30" deep. With 7,707 sq. in. of space, the all-aluminum cart provides a load capacity 2,000 lbs per caster and each drawer has a rating of 250 to 500 lbs. It comes with sealed ball bearing casters; 10" diameter, 5" wide flat-free tires on billet aluminum rims; and premium non-slip drawer liners.



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## Includes complete vehicle coverage

The **Launch X431 Pro scan tool** uses an Android tablet with access to third party apps, featuring a bright 8", high-resolution touchscreen. The X431 Pro's software includes complete vehicle coverage, powerful special test functions, fast live data and graphing, with eight multi-color graphs per page. The X431 Pro also features a Bluetooth VCI, allowing for a wired OBD-II experience in a wireless device. The X431 Pro includes a complete OBD-I adapter set, all in a hard-sided case.

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**K**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.



## Quickly switch between different light heads

The **Steelman PRO Command Post<sup>3</sup> Modular Light by JS Prodcuts**, No. 79057, has a patent-pending quick-release mechanism that allows users to switch between three light heads in a matter of seconds. Simply slide the quick-release collar back to pop the head off. Then, click another one into the universal power station base. This all-in-one lighting solution includes an ultra-bright, 550 lm flashlight head, a 400 lm, 1/4" Slim-Lite head and the Bend-A-Light bendable inspection light head. Additional heads and accessories are also available.

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## Stabilizes fuel for up to two years

The Kinetic Fuel Technology K100MD Diesel Fuel Treatment with Enhanced Stabilizers encapsulates water molecules in ULSD, bio-diesel and home-heating fuels, providing a complete burn. The treatment stabilizes fuel for up to two years. It works as a water eliminator, injector cleaner

and lubricity agent. The cetane and mileage booster has an anti-gel formula and dissolves sludge, revitalizes old fuel and eliminates microbe growth. Made in the U.S.A., this product is available in 8-oz, 32-oz, 5-gal and 55-gal containers to treat a range of 60 to 55,000 gallons of fuel.

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## Prep and finish multiple types of surfaces in tight spaces

The Ingersoll Rand IQV12 Series Polisher/Sander, No. G1621, is a cordless multi-purpose solution that allows auto body and automotive technicians to prepare and finish multiple types of surfaces in tight spaces. The tool features a two-speed gearbox and variable speed level for sanding and polishing a variety of surfaces, from sanding brake rotors and removing gaskets to polishing bumpers and headlight restoration. The G1621's unique tool-free spindle lock allows technicians to change backing pads quickly, without fumbling for additional tools. The IQV12 Polisher/Sander features an ergonomic grip and a patent-pending soft mount system to reduce vibration.

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## Double-hammer mechanism reduces vibration

The Florida Pneumatic Aircat 3/8" Mini Palm Butterfly Impact Wrench, No. 1320, provides 80 ft/lbs of torque at a free speed of 10,000 rpm. The 5.4", 1.1-lb tool can be used around radiators and other restricted work areas. The impact features a three-position, built-in power management switch, a swivel air inlet to increase maneuverability and a double-hammer mechanism to reduce vibration.

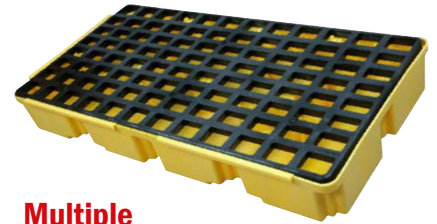
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## Update includes new diagnostic features

The TEXA S.p.A. IDC4e Truck v.39 software, distributed by Diesel Laptops, provides a user-friendly interface and bi-directional controls for the everyday job: forced regens, injector programming and parameter changes. IDC4e offers comprehensive coverage and never expires. The Truck v.39 update includes new diagnostic features for the most important and widespread makes of industrial vehicles, light commercial vehicles and buses. Among these new features are the TPMS Repair App and additional wiring diagrams. TEXA has multiple platform flexibility (PC and tablet), comes with optional subscription updates and offers add-on modules to fit customer needs.

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## Multiple configurations available

The Homak Line of drum spill containment platforms provide shops with high-performance engineered plastic for chemical resistance. The external U-channels provide easy connection capabilities to multiple platforms. These spill containment platforms provide removable, flat-top grating for easy cleaning and are made in the U.S.A. This line offers multiple configurations with capacities up to 30 gallons and 5,000 lbs. Homak also offers a Spill Containment Pallet Ramp accessory for platform Nos. YW00302302 and YW00304660.

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## Built-in pressure relief valve to save wear and tear

The LuMax RoboLuber, No. LX-1182, is a 20V Li-ion, cordless grease gun. It has a high-volume/high-pressure switch for everyday greasing situations or tackling the occasional blocked fitting. It can generate up to 10,000 psi, and has a built-in pressure relief valve to save wear and tear on the unit and battery, if 10,000 psi is exceeded. The grease gun can pump more than six cartridges of grease



per battery and has a LED light built into the handle, to help illuminate hidden fittings. It comes with two batteries, a 110V charger, 30" ultra-flex high-pressure hose and a carrying case.

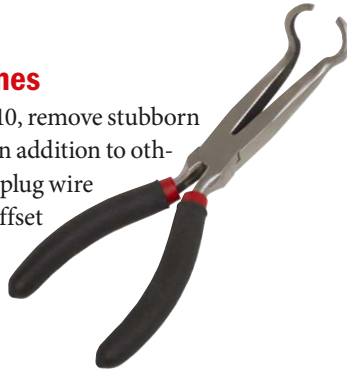
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# New Products

## Works on 3.1L, 3.4L and 3.8L GM engines

The Lisle Spark Plug Wire Removal Pliers, No. 51410, remove stubborn spark plug wires on GM 3.1L, 3.4L and 3.8L engines in addition to others. The 5/8" opening of the pliers properly fits spark plug wire boots to prevent damage. The tool is 7" long with offset tip to fit in tight spots.

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## Battery-powered mobile columns

The Atlas Equipment Mobile Column Lift System, No. ML-4034BC, is an ALI certified battery-powered lifting system. Each column in this battery-powered system comes equipped with a pair of rechargeable deep charge marine batteries and operates with a 24V DC motor. Battery power lasts 10-20 lifts depending on load and is recharged with an attached 110V single phase cord. Each column also includes a hydraulic pallet jack system. Each column is equipped with an LCD screen, an emergency stop button and has a lifting capacity of 18,500 lbs. When four columns are used, the unit allows for a maximum capacity of 74,000 lbs. The lifting capacity and maximum vehicle wheelbase length may be increased by adding two or four extra columns. Easily adjustable forks can accommodate tire diameters from 19" to 44". The Atlas mobile column lift system is designed and engineered for bus, RV and truck lifting applications.

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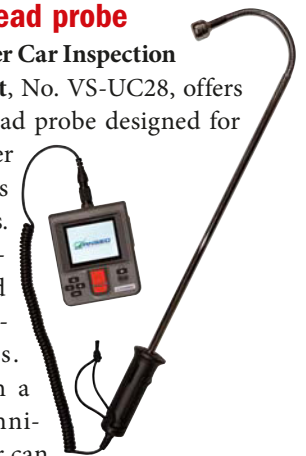
The CP7727 is one of the 8 Ultra Compact Tools in CP's "Size Matters" Great Prize Giveaway 2016 Tool Prize package.



## 28mm flex-head probe

The Ansed Under Car Inspection Video Scope Kit, No. VS-UC28, offers a 28mm flex-head probe designed for inspection under vehicles as well as other applications. The LED provides improved visibility in hard-to-reach areas. Combined with a monitor, a technician or inspector can record photos and or videos of their inspection results. The kit contains the probe, a 4 GB SD card, four AA batteries and a cardboard box.

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# New Products



## Lightweight pistol head

The Zipp Air Tool Split Type Vacuum Riveter, No. ZT1626S-3, is constructed of forged and heat treated aluminum alloy. It has a lightweight pistol head and can reach inaccessible areas. With traction power of 3,400 lbf and a stroke length of 1-1/32", the riveter comes with a utility pouch for the user's shoulder or waist. The tool provides a maximum capacity of 1/4" structural rivets in all materials.

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## One-handed grease application

The AMSOIL Deluxe Grease Gun Kit comes with one 3,500 psi grease gun, one grease cartridge, a flexible hose and rigid pipe, as well as a grease coupler with protective cap. Developing up to 3,500 psi, the grease gun offers improved pumping performance and ensures grease is adequately applied to the application. The pistol-grip design and rigid pipe allow for one-handed grease application, while the flexible hose eases access to hard-to-reach locations. Two head ports allow for increased flexibility and comfort, while the plastic tip cover protects against contamination from debris. An easy-to-use plunger simplifies loading and makes the job of greasing equipment even easier.

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## For environmentally sealed connection systems

The OTC Weather Pack Ratcheting Crimper Kit, No. 4484, assists technicians with managing environmentally sealed connection systems, often found in automotive connections. The kit includes two interchangeable crimping dies to cover wire range AWG 22/20-18 and AWG 16-14/12. Dies slip into place and are held securely by magnets, and according to the company, the ratcheting crimp action creates a more secure, protected crimp. Detailed instructions accompany the kit, showing how the weather pack crimp is properly made to help build technician confidence and reduce comebacks.



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Locate Open Circuits with ECT3000



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# New Products



## Aluminum housing reduces vibration

The Clayton Duralite Pneumatic Sanders include both vacuum and non-vacuum sanders. Made of durable metal instead of plastic, this family of random orbital sanders features an aluminum housing which reduces vibration and can withstand the rigors of daily use, according to the company. They are available in multiple sizes, shapes and orbits, and they can be repaired in the company's New Jersey factory with a one-day turnaround.

**Circle 42 on card, or enter at "e-inquiry" on VehicleServicePros.com**

## Most efficient fan speed with minimal user input

The Big Ass Fans Powerfoil X3.0 industrial ceiling fan includes SmartSense control technology for comfort and automatic energy savings. The Powerfoil X3.0 produces 15 percent more airflow than the company's Powerfoil X2.0. SmartSense, featuring summer and winter modes, maximizes investment by selecting the most efficient and beneficial fan speed with minimal user input, according to the company. The Powerfoil X3.0 fan is available in diameters of 8' to 24' (2.4m to 7.3m) and includes a non-prorated 15-year warranty with factory-certified installation.



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## Lightweight pistol-grip style impact

The Mighty-Seven 1" Drive Impact Wrench, No. NC-8237, is made from industrial strength aluminum alloy. The lightweight pistol-grip style impact has a reliable twin-hammer mechanism and offers 1,800 ft/lbs of maximum reverse torque. The impact is supplied with a reversible, ergonomic D-type side handle that helps provide maneuverability.



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# New Products

## Features heavy duty turnplates

The Rav America Bluetooth Truck Alignment System, No. TD8060TWSRA, uses 6CCD optics for accurate and efficient alignment service. Available with the company's premium software package, the Bluetooth Truck Alignment System features heavy duty turnplates and non-runout fast clamps. The system has four color keys to lead users through the alignment process. A trailer package is included, as is the company's lifetime support package and Internet support.

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## Compatible with ABS and non-ABS brake systems

Designed for refilling brake fluid after a brake repair job, the Mahle FluidPRO BFX-3 for Brake Flush System can be customized with a variety of universal adapters designed to fit the master cylinders of many makes and models of vehicles. The machine's automatic push/pull process is completed in three easy steps in less than 10 minutes. Features of the BFX-3 include easy hook-up; a pistol wand for convenient and accurate fill; a rugged cabinet construction and coating to resist corrosion; an LCD display that indicates when new fluid cylinder is empty and used fluid tank is full; and a pressure gauge to assist in brake system diagnosis. This unit is compatible with both ABS and non-ABS brake systems.

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## IP68 rated waterproof

The Monster Cree White LED Flashlight, No. MST10280, is a premium grade IP68 rated waterproof flashlight, offering 280 lm of light and two hours of run-time. It has a micro USB charging system and operates on a 1.2V 800mAh NI-MH rechargeable battery that is included. It features a three-mode electronic switch offering low beam, high beam and 8hz flashing light options. The deflector offers a 200m beam throw. The LED charging status indicator shows green flashing when charging and a green steady light when fully charged. The indicator also will notify the user of low power at 20 percent power status.

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# New Products



## Heavy duty impact sockets

The Lisle 21mm and 22mm Harmonic Balancer Sockets, Nos. 77100 and 77110, are heavy duty impact sockets designed with more than three times the standard socket mass to direct more energy to removing the bolt, according to the company. The 21mm Harmonic Balancer Socket can be used on Chevy, Chrysler, Dodge, Ford, GM, Jeep and Mazda engines that use a 21mm hex pulley damper bolt or other 21mm applications. The 22mm Harmonic Balancer Socket can be used on BMW, Dodge, Ford, Jeep, Kia, Lexus and Toyota engines that use a 22mm hex pulley damper bolt or other 22mm applications. Both sockets can be used with a 1/2" drive impact.

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## Low-profile, 3-1/2" clearance

The Sunex Tools Roadster Aluminum 1-3/4 Ton Capacity Jack can raise the chassis of most cars and light trucks. The jack's Rapid Rise technology helps lift vehicles with a fast, smooth operation. The jack's twin pistons enable the user to raise the saddle to its maximum height in five pumps of the handle or less. A pressure relief valve lowers the jack to its original position for transport and storage. The 39-lb jack has a low-profile, 3-1/2" clearance, and its 360-degree rubber saddle pad rises up to 16-1/2". The jack's rubber-coated handle retracts and folds to lock in place forming a sturdy carrying handle. The jack's integrated side handle aids in positioning during set up. Wide track front wheels and ball-bearing swivel-caster wheels in the rear provide mobility.

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## For most Class 7 and 8 trucks

The Cal-Van Heavy Duty U-Joint Puller, No. 199, is a heavy duty solution for quickly disassembling seized, stubborn U-joints on most Class 7 and 8 trucks and machinery.

Engineered for use with up to a 1" impact tool, the Heavy Duty U-Joint Puller eliminates dangerous vice and socket, or hammering removal methods. The one-piece unit - without bolts, cables or assembly required - does not damage the driveshaft, yokes, joints or bearing cups. Applications include U-joints with bearing cups 1.5" to 2.2" O.D.; Spicer 1610, 1710, 1760, 1810 and 1880 Series; Spicer SPL 140, 170 and 250 Life Series; Meritor (Rockwell) 16N, 17N, 18N and 1710 Series; and Meritor RPL 20, 25 Permalube Series.



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## Easy fold light tower for transportation

The Larson Electronics WAL-PML4X160LED-3G pneumatic light tower is a 20' mast equipped with four 160-watt LED light fixtures designed to provide a safe and effective way for operators to quickly deploy 640 watts of intense lighting. The light tower incorporates an easy foldover assembly for transportation purposes and can be collapsed to 8'. The tower is constructed of heavy gauge steel and unbreakable polycarbonate lenses for durability, and a tough powdercoat finish provides protection against rust and corrosion. These units can withstand rapid temperature changes, are waterproof to 3m, and resist ingress of dust, dirt and humidity. A single 4000 KVA generator is mounted to the base of this tower to provide standalone power for the LEDs and allows for quiet operation and 12 hours of run-time on a single tank of fuel. The generator also includes standard 120V and 240V outlets for accessory attachments, allowing operators to run tools and other equipment while also operating lights.

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## Increase hand visibility in low light

The Hauler Shine Leather Palm Gloves, No. 12360, from Galeton are made with orange canvas back for durability and feature reflective tape on the cuffs for increased worker's visibility in low light. Soft padding on the inside of the palm reduces chafing and adds comfort.



These gloves are an expansion on the line of Hauler Leather Palm Gloves.

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## Easy forward and back adjustments

The ArcOne CapGear line of headgear uses a rack-and-pinion system designed to make forward and back adjustments easier. Users can change easily between a welding helmet and grinding visor by sliding one out and the other in its place. CapGear comes with a fire-retardant ArcOne cap and extra fire-retardant spray.

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# New Products

## Inside design allows obstacle-free spring release

The Thexton GM “W” Rear Brake Spring Release, No. THX832, works large and small “W” springs commonly found on older trucks, SUVs and cars. The inside design of this U.S.-made tool allows obstacle-free use by technicians.

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## Organize wrenches for quick access

The Snap-on Magnetic Holders, Nos. 38MSWHLDR, 14MSWHLDR and 12MSWHLDR, attach directly to tool storage units. The socket and wrenches are held in place with high-impact Nylon 66 plastic that resists oil and grease to keep tools from slipping. All three models feature replaceable clips if lost or broken, and are equipped with eight powerful magnets covered with protective foam to hold the rails in place on any ferrous metal surface. Available in 1/4” (No. 14MSWHLDR), 3/8” (No. 38MSWHLDR) and 1/2” (No. 12MSWHLDR), these magnetic holders are designed for SAE and metric sockets and wrenches.



## Made with heat-treated drop-forged steel

The Astro Pneumatic 12-Piece Large Cold Chisel and Punch Set, No. 1612, is made with heat-treated drop-forged steel. The set offers high Rockwell hardness, but low enough to prevent chipping and cracking from heavy hammering. Each blade is designed for the best balance between edge sharpness and edge strength. Tapered punches drive out pins and broken fasteners and use through-holes to align parts to assist assembly. The set includes six cold chisels (1” by 10”, 7/8” by 10”, 13/16” by 8”, 3/4” by 8”, 5/8” by 7” and 1/2” by 6.5”), four punches (3/8” by 10”, 3/16” by 10”, 1/8” by 5.75” and 3/8” by 8”) and two center punches (8” and 5.75”).

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(Lift sold separately)

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### ADVANCED IMAGING TECHNOLOGY THAT DELIVERS FAST AND ACCURATE ALIGNMENTS

The model 3DP4100 Target 3DPro™ is an extremely accurate wheel alignment system thanks to advanced imaging technology that delivers fast, industry-standard alignments. It streamlines the entire alignment process delivering critical readings in less than two minutes. With minimal investment and reduced training, the Ranger Target 3DPro aligner expands your service potential and sends more profit to your bottom line.

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MODEL 3DP4100

Call **1-800-253-2363** or Visit [bendpak.com/3DAligner](http://bendpak.com/3DAligner)

\*Free shipping on all Ranger Products to most areas in the 48 contiguous states.  
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## Lift range from 3.5" to 21.375"

The K-Tool International Low Profile Professional Service Jack, No. KTI63133, has a 3.33-ton capacity and its low profile allows easier access under low-clearance vehicles. It has a lift range from 3.5" to 21.375". The 50" long pump handle assists pumping under load, and the dual-pump piston power unit raises the saddle to maximum height in eight full incremental pump strokes when not under load. This service jack features load-limiting and bypass valves to prevent use beyond rated capacity and over-extension of the ram. It comes with a two-year warranty on material and workmanship and complies with ASME PALD/2009 safety standards.

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

## For EVAP, vacuum, oil and exhaust leaks

The Cornwell Redline Leak Detector/Smoke Machine, No. RL950020CT, has the ability to diagnose and repair EVAP, vacuum, oil and exhaust leaks. It does not require nitrogen and can run off common baby oil.

The compact design of the device assists storage and placement under the hood or chassis. The device connects directly to shop air (up to 170 psi) and the vehicle battery.

This unit comes with assorted caps and plugs, an exhaust cone, Schrader tool, EVAP port adapter, inspection light and instructional DVD. It includes a compound gauge to test vehicles that require vacuum when testing EVAP and verifies safe test pressure. It can be used with the flow control valve for leak down testing to identify small leaks.

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



## Stainless steel blade

The Coast FDX300 Knife uses the company's Double Lock System with a Frame Lock.

Utilizing this lock combination, users have additional safety to prevent the knife from accidentally closing.

With a stainless steel handle to go along with the a stainless steel blade, this carries less bulk but is built for many tasks. The FDX300 Knife is backed by Coast's lifetime warranty against defects in materials and workmanship.

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VT56 TPMS Diagnostic Kit



# VT56

## OBDII TPMS DIAGNOSTIC TOOL

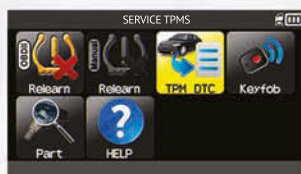
### FUNCTIONALITY - FAST - INTUITIVE - USER FRIENDLY

Resets vehicle TPMS system  
OE & Aftermarket sensor compatibility

- Global vehicle coverage
- Full color 4" screen
- Icon driven intuitive learning
- Part number look-up
- OBDII module for ECU reset
- Key fob tester
- Help screens
- WIFI connection to PC for updates
- Barcode scanner for vehicle identification
- Docking cradle with printer
- TPMS DTC retriever
- Dated history file
- Programs all known programmable sensors
- Vehicle DLC locator
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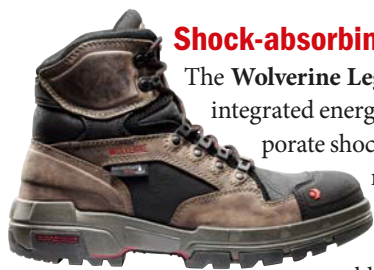
# New Products



## Delivers grease at up to 8,000 psi

The Lincoln 12V Lithium-Ion PowerLuber has a three-point base to keep the tool upright and stable, aiding access to tight areas and reducing operator fatigue. The tool also has a built-in LED to illuminate the work area. Designed to minimize the burden of manual lubrication, the 12V Li-ion device can open stuck fittings that otherwise would require replacement if using a manual grease gun, the company says. The cordless tool delivers grease at up to 8,000 psi. It is available as a bare tool (No. 1260); with a single battery, charger and carrying case (No. 1262); with a dual battery unit, charger and carrying case (No. 1264); with a 12V Li-ion battery (No. 1261); and with an AC charger for 12V to 20V Li-ion battery (No. 1870).

Circle 71 on card, or enter at "e-inquiry" on VehicleServicePros.com



## Shock-absorbing sidewalls

The Wolverine Legend work boot offers DuraShocks technology with an integrated energy return system to add comfort. The DuraShocks incorporate shock-absorbing sidewalls that compress to absorb shock and return energy. The new design also optimizes cushioning in the heel and flexibility through the step. The Legend is available in 6" and 8" styles in tan, dark brown and black. The boot is also available with a CarbonMAX nano-technology safety toe for lighter-weight, better fit, and a strong structure that meets ASTM standard F2413-11 M I/75 C75 EH.

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## Takes up little space

The Forward Lift FS77 Scissor Lift uses less than 44 sq. ft. of space, and features a low-profile 4-1/8" drive-over height. Its 24-3/4" independent platforms accommodate a wide range of vehicles and pick-up points. Ramps attached to the platforms are hinged to drop down to a 65-degree angle to increase accessibility, or lock in the up position to extend the pick-up point surface area. The lift's 78-5/8" rise height creates working space. Certified by ALLI, it has a 7,700-lb lifting capacity. The lift features an inverse piston manifold system that synchronizes the platform movement during lifting and lowering cycles. The same system offers blocked platform functionality that prevents both platforms from lowering if one platform is stopped by an obstruction or engaged lock.

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MST13002

# 3.5 TON LOW PROFILE PRO SERIES SERVICE JACK

- 2 Year Warranty on material and workmanship
- Complies With ASME PASE/2014 Safety Standards

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Monster Products available through your Mobile Tool Distributor. Need help locating a distributor? Email us: support@monster-tools.com

Max Height: 21.38"  
Low Height: 3.5"

Crowned wheels for ease of movement  
Saddle Diameter: 4.5"



## Use with various adhesives

DeWalt 20V MAX Adhesive Guns, Nos. DCE560, DCE570 and DCE580, can be used with various adhesives including latex, silicone, polyurethane, flexible epoxy and more. Available in 10-oz/300ml (No. DCE560), 29-oz (No. DCE570) or 300-600ml Sausage Tube (No. DCE580) canister sizes, the guns feature Anti-Drip which briefly auto-retracts the plunging rod when the trigger is released. A variable speed trigger and variable speed dial are also included to provide finite adjustments in speed at which the material is released. Other features include a tool-free change canister, a hang hook and an LED worklight at the foot of the tool. Additional accessories are also available.



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## Adjustment points create customized fit

The Honeywell North Zone Hard Hat features patented suspension, multiple adjustment points and a rear comfort cradle. A custom fit is achieved by adjusting the headband for height; the macro size adjustable headband allows the selection of small, medium/large or extra-large circumference; and the easy grip ratchet enables precise tension. The hat is available in two easy-to-remove suspension designs, Quick-Fit and Ratchet, which are compliant for forward and reverse donning. Constructed of HDPE, the North Zone shell incorporates standard accessory slots for use with cap-mounted earmuffs and/or face shields. Ideally suited for general use, the hard hat meets ANSI/ISEA Z89.1 2014 Type I, Class C, G and E as well as CSA Z94.1 2015 Type I, Class C, G and E safety standards.

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## Comes fully assembled

The Sunex Tools Professional Full Drawer Service Cart, No. 8057, comes fully assembled. Each drawer of this six-drawer cart features fully extending roller bearing sliders and EVA foam liners for secure tool storage during transport. Gas shocks raise and support the locking lid and heavy duty casters (two locking) make transportation easy. The 8057 service cart is available in red, orange, purple, green, silver, black and matter black. Two special-edition styles are also available: a hunter green Camo design and a black cart with pink accents.



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Safety valve prevents overloading

Handle Length: 50.25"

Two piece handle with bumper pad

Only 4 pumps to max height under no load



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See page 9 to learn how you could win a Monster Prize Pack worth over \$7,000

Why Buy a D-I-Y Jack when you can get a

**PRO SERIES**

**\$299**

for as low as

Length: 28.25"

# New Products

## Full 1hp motor

The JB Industries Dual Piston Refrigerant Recovery Unit,

No. F6-DP, features a full 1hp motor, dual piston compressor and high efficiency micro-channel condenser to recover refrigerant quickly.

The device offers a micro-channel condenser as well as two-valve operation, and it is self-purging without the need to change hoses. The over-sized cooling fan dissipates heat, and the heavy duty handle provides a comfortable rubber grip. The unit is backed by a three-year OTC warranty.

Circle 78 on card, or enter at "e-inquiry" on [VehicleServicePros.com](http://VehicleServicePros.com)



## Produces 800 lm of output on its high mode

The Milwaukee Tool M12 LED Metal Flashlight is capable of producing 800 lm of output on its high mode, and it can cast a beam up to 375 yards when in spot mode. In low mode, it produces 325 lm, and offers a run-time of up to seven hours. Through its Milwaukee designed optic lens, this flashlight can cast a wide and evenly lit flood beam or a tight center beam with a soft surrounding halo. Equipped with Trueview high-definition features, the flashlight also is constructed of 6000 series aircraft-grade aluminum alloy. It is compatible with the M12 cordless system.

Circle 52 on card, or enter at "e-inquiry" on [VehicleServicePros.com](http://VehicleServicePros.com)



## Increase battery power and run-time

The Milwaukee Tool M18 Redlithium High Demand 9.0 Battery Pack delivers up to five times more run-time, 35 percent more power and runs 60 percent cooler than standard Li-ion batteries, according to the company. It performs at compact, extended capacity and high demand levels. In conjunction with the framework of motors and electronics in the M18 system, this battery technology exceeds what's possible on high-voltage or multi-battery tools, and is fully compatible with the entire M18 system. This battery pack will be sold as an accessory to the M18 System, and in select M18 FUEL kits.

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# GTC505

## Engine Ignition Analyzer



### Quick, Powerful, and Easy to Use

- 3.5" color display shows ignition waveform in real time
- Compares measurements between cylinders
- Detects intermittent misfires
- Analog gauge and digital display
- Designed for use on car, marine, motorcycle, and small engines:
  - coil on plug
  - coil near plug
  - waste spark (D.I.S.)
  - conventional (distributor)
  - magneto, etc.

### Set Includes

- GTC505 with protective rubber holster
- Sensors for coil-on-plug & spark plug wires
- 12" long flexible probe
- USB charger and cable
- Hard padded case for carrying and storage



- 6' cable with clip-on sensor for spark plug wires is available as a separate accessory

[www.GTC.ca](http://www.GTC.ca) or call toll free 1-800-440-5582

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# HDAW 17

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Frustrated with spending too much time in the repair? Breaking extractors? Breaking drill bits? ProMAXX has the solution! We engineered a complete ProKit™ to knock-down a problem repair to a profitable one. Up to 70% faster than conventional methods. Our tools are crazy good at making these repairs in Chrysler, Dodge, Ford, General Motors, Isuzu, Jeep and Lincoln.

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- ✓ No clamps required. Bolt in place using as little as one mounting hole.
- ✓ Pressed-in drill bushing-made for life, warranted forever.
- ✓ Wafer-thin, behind the strut tower, under the firewall. Fits anywhere.
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- ✓ For **GM** 2.2L, 2.4L, 2.8L, 3.5L, 3.7L, 4.2L, 4.8L, 5.3L, 5.7L, 6.0L, 6.2L, 8.1L, **DODGE/JEEP** 3.7L, 4.7L, 5.7L, **FORD GAS** 3.0L, 3.5L, 4.2L, 4.6L, 5.4L, 6.8L, all valve configurations, **FORD DIESEL** 6.0L, 6.4L, 6.7L and **ISUZU Diesel**.

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## INNOVATIVE NEW PULLING TOOL

### LT855 TEXAS TWISTER AIR HAMMER PULLING KIT

- Now you can convert your air hammer into a pneumatic slide hammer with the Texas Twister
- Simply snap the Texas Twister curved air bit into the collet of your hammer with one of the bits attached and reverse the air hammer handle in your hand now using thumb to push the hammer trigger.
- Feel the 3000 air hammer blows per minute tuning into new pulling power
- One hand operation allows you to hold parts with your other hand
- Safe controlled part removal without parts and fluids crashing to the floor
- Utilize air hammer pulling power where slide hammers won't fit
- Extend the reach of the tool by using the 20" extension
- Use the double ended male 1/2"-20 connector bar to connect the Texas Twister to your current pullers
- **TEXAS TWISTER** - safe, powerful, fast, simple effective air hammer bits you will use every day
- Comes packaged in a custom ballistic black nylon case
- **Patent Pending**



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### Delivers ANSI level 4 cut resistance

The Brass Knuckle SmartShell heavy duty protective glove, No. BKCR4599, offers heavy duty cut resistance, light oil and moisture resistance, non-tacky slip resistance, and shock-absorbing impact protection. The glove also delivers ANSI Level 4 cut resistance and is breathable and durable. On the palm and fingers, the BKCR4599 offers three layers of protection. The liner is an ultra-high-performance polyethylene (HPPE) and spandex composite that delivers strong cut resistance without bulk. Bonded to that first layer is a gray polyurethane (PU) fabric topped with a grippy nitrile surface—a barrier to light oil or other light liquid penetration. In critical areas of the palm, padding provides impact resistance. The back of the hand is also loaded with sonically welded thermoplastic rubber (TPR) padding that easily counters workplace pounding and abrasion.

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### Lightweight impact with full power

The Monster mini 1/2" composite impact, No. MST7126, has a maximum torque of 600 ft/lbs and weighs only 2.9 lbs, the lightest on the market, according to the company. The lightweight impact produces 500 ft/lbs in five seconds, is only 4.4" long and has a 10,000 rpm at free speed.



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## Automatically recognize electronic signatures

The Innovative Products of America (IPA) Electric Brake Force Meter with Dynamic Load Simulation and Circuit



**Testing**, No. 9107, was designed for use on seven-spade equipped vehicles. It automatically recognizes the electronic signature of both integrated trailer brake controllers (ITBC) and aftermarket trailer brake controllers, simulates trailer load and displays real-time,

brake-controller output gain and application timing. In addition to the electric brake circuit, the tool is used for troubleshooting all truck-side tow circuits, such as tail lights, turn signals, 12V+, reverse and ground condition. The 25' cable allows for one-person, in-cab testing and can be stowed inside the provided soft case.

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## Produce a smoother pool rotation

The Reelcraft Series L 70000 cord reel is designed to accommodate up to 100' of 12 gauge cord. The heavy duty base design, all-steel construction and a baked-on powdercoat finish combine to produce a corrosion-resistant product. A redesigned latching mechanism provides longer service life of the latch components, and the containerized drive spring offers safer and easier handling during maintenance. Two sealed ball bearings produce a smoother spool rotation and easier operation. All Series L 70000 cord reels are UL listed.

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## Keeps clamp open and locked in position

The KNIPEX Tools Hose Clamp Pliers keep the clamp open and locked in position without the need to grip and hold onto the pliers until the user is ready to move the clamp. The pliers feature a lock which opens at the touch of a button, rotatable tips to grip hose clamps in all positions and a pinch guard. They can be used on a variety of clamps up to 2-3/4" in diameter and offer leverage to allow clamps to be opened and moved without exerting great effort.



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## MAYHEW

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# 20 Piece Punch & Chisel Set

- Set includes our new Punch & Chisel Holder
- Select sizes fit most applications



- Heavy duty, heat treated, alloy steel for maximum durability and exceptional strength
- Black oxide finish for additional rust protection & professional appearance
- Struck ends are tempered to help reduce chipping

## New Anti-Slip Pouches






- New Anti-slip material
- Hook and Loop fastening system
- Tool protection flaps
- Secure tool pockets



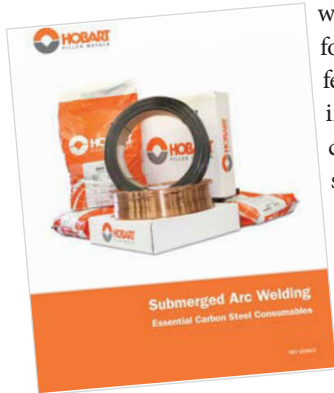

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# New Products

## Recommendations for pairing the appropriate flux

The **Hobart Submerged Arc Welding Guide** was designed to simplify the selection of wires and flux for submerged arc welding, the guide provides features and benefits of each Hobart wire and recommendations for pairing the appropriate flux, along with suggested operating parameters for gaining optimal results. The guide features 13 wires and fluxes. The guide includes detailed information on the company's SubCOR seamed and seamless cored (composite) wires; SDX copper-coated solid wires; and SWX, HA- and HN- agglomerated fluxes. Easy-to-read charts throughout the guide include information on product comparisons, standard packaging and part numbers, and competitive



product cross references, as well as important details on categories of flux and their key applications. A quick reference page outlining wire and flux classifications, per the American Welding Society (AWS), offers an overview of the ways flux and wire perform together.

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## Extend battery testing diagnostic capabilities

The **Clore Automotive Volt Probe Accessory**, No. BAA7, can be connected to the BA427 Digital Battery and System Tester to take voltage readings throughout the vehicle electrical system, including voltage readings from specific locations within circuits or from specific components within the system. It is also useful for voltage drop testing. It is small and compact, allowing it to get into hard-to-reach areas. It has two termination options (a pointed tip and a banana clip) and connects to the BA427 via a standard port on the front of the unit. The BAA7 can also be used to interface with other electronic equipment, including most DMMs and scopes.



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## Up to 12 hours of run-time

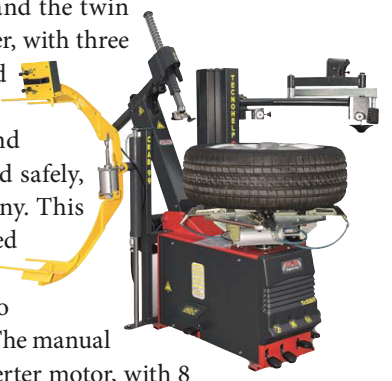
The **CAT® Rechargeable Utility Light**, No. CT6515, has been added to the E-Z Red Company's line of lighting solutions. The lightweight, compact device offers a 115-lm top light, which can be operated as a handheld flashlight. The body of this light extends into a 225-lm lantern. The rechargeable Li-ion battery can provide up to 12 hours of run-time, and the magnetic base and recessed hooks offer versatility and hands-free use. The CT6515 also includes a battery/charge level indicator and an onboard USB charging cord that wraps around the light and tucks away. The Rechargeable Utility Light offers an outbound USB charge port to keep compatible electronic devices charged.



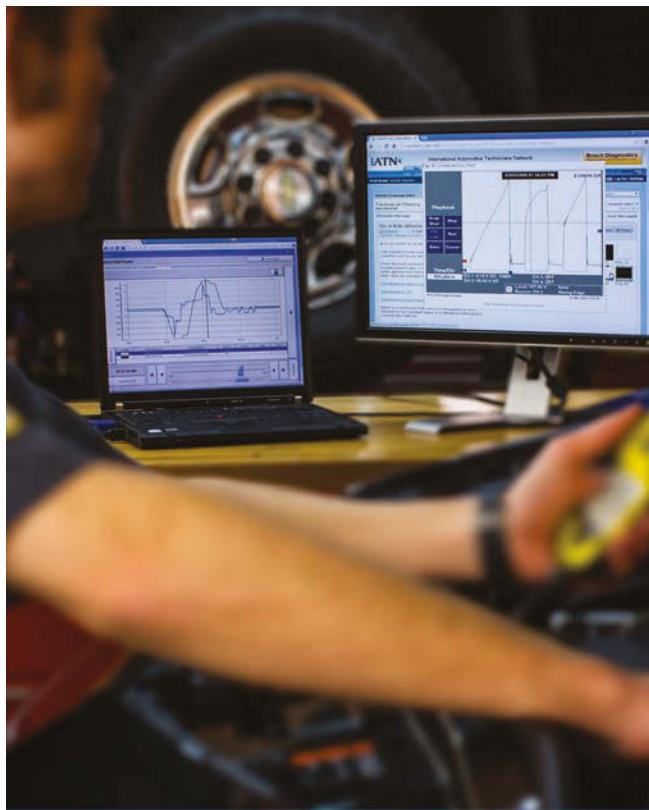
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## Adjustable jaws with a 10" to 28" capacity

The **GRP Pneumatic Manual Tilt with 28" Turntable**, No. 428 TRF, allows for one-person operation. The tower safeguards against wheel damage and the twin cylinder mounting helper, with three point of depression and dual locking arm, changes low-profile and run-flat tires simply and safely, according to the company. This manual tilt was engineered for high-volume tire shops and designed to reduce operator errors. The manual tilt has a two-speed inverter motor, with 8 rpm high torque for low-profile and high ply tires, accommodates wheels up to 18" wide and features adjustable jaws with a 10" to 28" capacity.

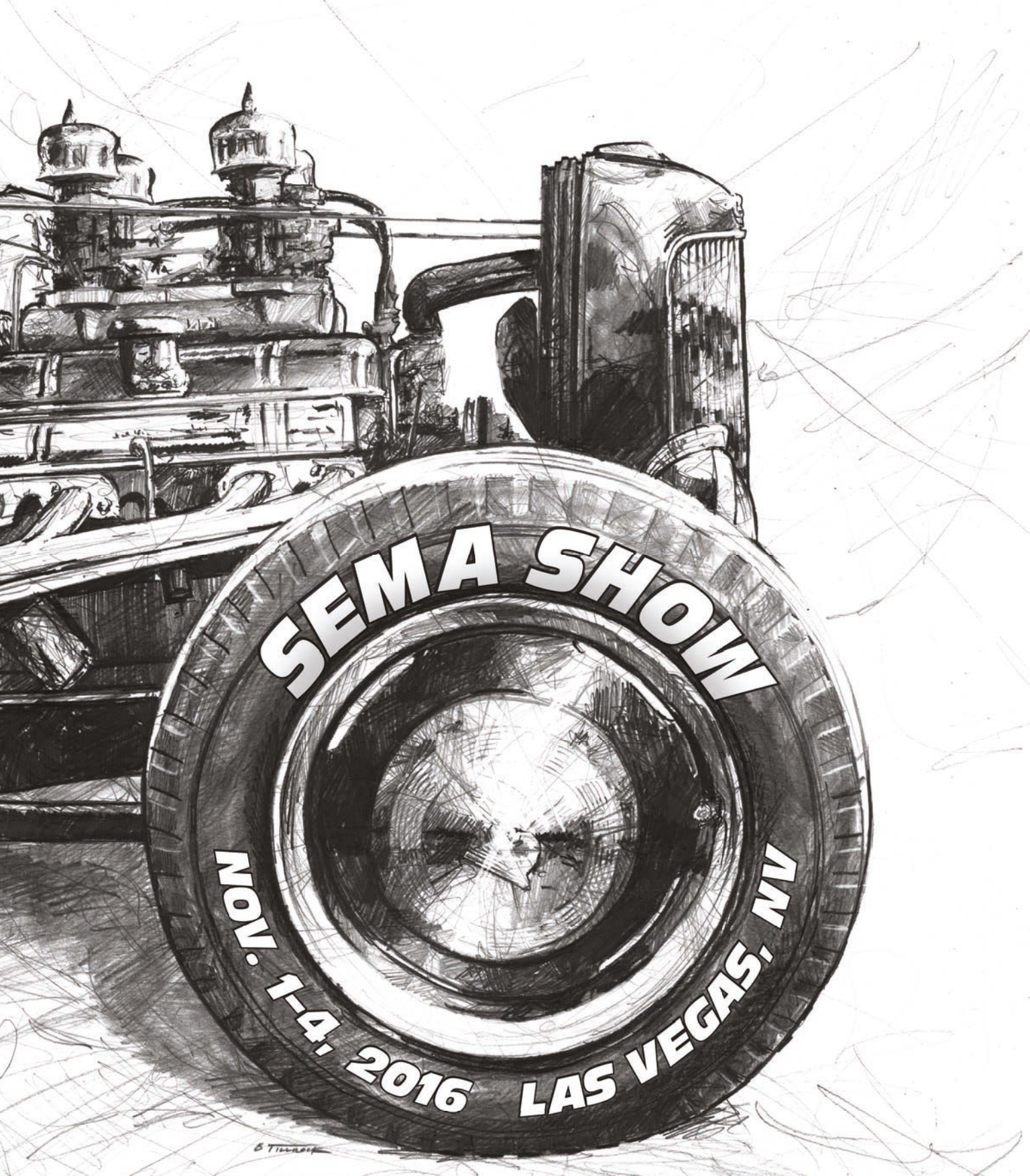


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# GOT A FROZEN/DAMAGED LUG NUT OR FROZEN HUB?

## LT1350 LUG RIPPER II

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



Tungsten drill bit w/4 carbide cutters up-close



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



SEE HOW IT WORKS



## LT830A HUB SHOCKER

- Safely remove all frozen hubs instantly without damaging axle
- Universal fit mounts to all axle bolted hubs - 5, 6 & 8 lug hubs
- Mounts to two studs using supplied flanged nuts in seconds
- Use w/5 lb. hammer to knock frozen hubs out of axles
- Flanged nuts included for improved safety & performance
- Ideal for Dodge and other HD trucks
- Two mounting holes in 3/4" steel back plate
- 1/4" steel square tubing and striking plate
- **Patent Pending**



Included flanged nut sizes - 2 each  
1/2" 12mm  
9/16" 14mm  
20mm



IN USE

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## Reinforced cast iron frame

The Woodward-Fab Super Duty Shriner/Stretcher, No. WFSS-SD, features a heavy reinforced cast iron frame, which prevents deflection and makes the tool faster, the company says. The working 3" throat depth reaches deeper, and the tool works up to 18 gauge mild steel or 1/16" aluminum. This tool was designed to be used to form complex shapes such as windshield channels, wheel well openings or patch repair panels.

Circle 99 on card, or enter at "e-inquiry" on VehicleServicePros.com



## Holds eight common tools

The Ernst Manufacturing Vslot, No. 5350, is a screwdriver organizer that can hold eight common tools. The storage device is designed for use on all common pegboard sizes, and the patent-pending "V" slot securely holds a wide variety of tools. When hung, tools tilt at a slight five-degree angle for added stability on the wall. The device's breakaway hang tab can be used for retail display and can be removed for organizers to mount side by side. The Vslot is 10" by 2.4" by 1.4", is made in the U.S.A. and comes with a lifetime guarantee.

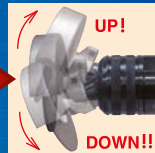
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## SP-7231 FLEX HEAD CUT-OFF TOOL



3-POSITION FLEX HEAD



Disc Size	: 3"
Free Speed	: 18,000 rpm
Length	: 8.6"
Weight	: 2.6 lbs.
Required Air Pressure	: 90 PSI
Average Air Consumption	: 4 CFM
Air Inlet Size	: 1/4"-NPT



## SP-7610 RECIPRO SAW [Gear Type]



Tool Cutaway



Strokes per Minute	: 5,300
Stroke	: 0.47"
Length	: 8.15"
Weight	: 1.3 lbs.
Required Air Pressure	: 90 PSI
Average Air Consumption	: 2.7 CFM
Air Inlet Size	: 1/4"-NPT

7610-200 Edge Blade  
(OPTION) Set of 10pcs. Strongly recommended for maximum performance.



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## Lightweight, heavy-duty steps

The Safety Step Aluminum Step Stools are lightweight, heavy duty and feature anti-tip legs, steel reinforced rubber feet to avoid sliding and anti-slip deck strips to help prevent short distance falls. All steps are compression tested in accordance to ANSI A14.2 and guaranteed to exceed 1,000 lbs in weight capacity. The company offers a two-year manufacturer's warranty and 100 percent quality inspection in the United States. Safety Step also offers custom solutions and consultation.

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## More consistent finish without smearing

The Walter Surface Technologies Blendex U Turbo Blending Disc was constructed using a heat-resistant non-woven matrix, which helps it to provide a more consistent finish without smearing. The disc is made of self-sharpening grains to provide a uniform finish and allow for high material removal on many different surfaces. The Blendex U Turbo was designed specifically to blend fillet welds, as well as deburr sharp edges commonly found in automotive and manufacturing industries.

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## Help prevent heat exhaustion

The Magid FR Welding Jacket, No. 1837GRTW, is flame resistant and features ANSI Cut Level 4 sleeves

and a breathable FR mesh back panel to help prevent heat exhaustion. The FR mesh material provides protection while allowing body heat to escape so workers stay cool, and is ideal for welding operations,



assembly and metal fabrication, according to the company. The para-aramid knit cuffs provide a snug fit with thumb holes to prevent the sleeves from riding up the arm, and the leather-reinforced, enclosed metal snap closures on the front placket allow for enhanced durability.

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The screenshot displays the PicoScope Automotive software interface. On the left, there's a 'Waveform Library' browser with filters for 'Make', 'Model', 'Year', 'Transmission', and 'Test Conditions'. The main area shows a grid of waveform thumbnails, each with a 'Car Details' panel and a 'Lead' section. The 'Car Details' panels provide information such as Make/Model, Year, Transmission, Engine code, Primary fuel, Cylinders, Configuration, and Engine capacity. The 'Lead' sections contain brief descriptions of the waveforms, such as 'COP (Coil on plug ignition) primary voltage' and 'Cylinder Pressure'. A large red circular badge on the right side of the interface reads 'Now over 2200 waveforms'. Below the badge, a text box explains that the Waveform Library Browser enables users to search a global database of waveforms and contribute theirs to share with others.

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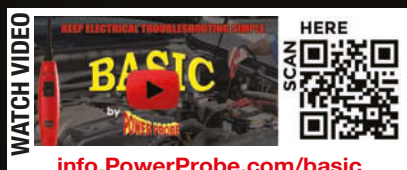


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### For use on 2016 vehicles

The NEXIQ Technologies CAN 3 - CAN 1 Crossover Cable is designed for use on 2016 vehicles, including Peterbilt, Kenworth and Volvos with Cummins engines. The product provides the ability to move J1939/CAN 3 diagnostic communications over to the J1939/CAN 1 channel. **Circle 106 on card, or enter at "e-inquiry" on [VehicleServicePros.com](http://VehicleServicePros.com)**



### Maintain batteries without overcharging

AutoMeter BEX-5000 Battery Extenders are fully equipped with circuitry that will safely charge and maintain batteries without overcharging, and has a charge current of 5 amps. The extender is compatible with 6V, 8V, 12V and 16V lead acid batteries (including AGM and gel). This water-resistant battery extender has a spark-free connection and reverse polarity protection, and comes with a three-year warranty. **Circle 107 on card, or enter at "e-inquiry" on [VehicleServicePros.com](http://VehicleServicePros.com)**

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### Removes undercoating, rust, paint and more

The MONTI Tools MBX surface preparation system is suitable for applications in hard-to-reach areas, including contours and edges on mechanical and bodywork materials. It removes undercoating, rust, paint, seals and gaskets as well as grey cast iron. The MBX can clean weld seams, gasket mating surfaces and threads without damaging the metal surfaces. To set up, users select the appropriate flexible belt and insert it into the adapter hub assembly and connect the adapter hub to the tuned drive unit. According to the company, the MBX produces little to no heat when applied. The MBX is offered as pneumatic and electric options, and MBX belts are offered in different grades of fine, medium and coarse, and in different materials of carbon steel and stainless steel. **Circle 108 on card, or enter at "e-inquiry" on [VehicleServicePros.com](http://VehicleServicePros.com)**

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### Dissolve sludge and other deposits

The Penray Crankcase and Differential Cleaner, No. 7612, is a chemical blend that can dissolve sludge and other deposits, and collect moisture so these contaminants can be safely drained out before they can cause damage. Suitable for use in the crankcases of gasoline and diesel engines, as well as in differentials, this blend includes a combination of solvents that dislodge crankcase and differential deposits so they can be removed by simply draining the oil. In the process, it also removes harmful deposits from valve train components, pistons and piston rings. It is compatible with all gasoline and diesel engines and rear wheel or four-wheel drive differentials in passenger cars, light trucks, vans and SUVs. Also, it is compatible with all conventional and synthetic oils and lubricants, as well as gaskets, seals and bearings. **Circle 109 on card, or enter at "e-inquiry" on [VehicleServicePros.com](http://VehicleServicePros.com)**

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The Challenger Lift Two-post Lift, No. CL12, is a two-post symmetric lift with three-stage front and rear arms and a 12,000-lb capacity. The single-point mechanical lock release system allows the technician to disengage both column locks simultaneously. The oversize steel pulley reduces stress on the equalization system and provides increased durability, according to the company. This lift features a padded overhead shut-off system which prevents vehicle damage from being raised too high.

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## Clean, measure and accurately torque valves

The Dill Air Controls Truck Valve Installation Toolkit, No. 5720, helps technicians clean, measure and accurately torque valves to specifications set by the Tire and Rim Association. The kit includes a cleaning brush, Go/No-Go measuring tool, preset torque wrenches and a T-handle hex wrench to hold the base of the valve stem from spinning during tightening. The kit is equipped to handle the variety of valves used in alloy and steel truck wheels.

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## Brighten at nine different angles

The Bosch 18V Max Worklight, No. GLI18V-420, is a pocket-sized unit that provides bright illumination with a three-LED design. The 420-lm worklight can brighten dark work areas at nine different angles and offers an adjustable light beam for spot and flood applications.



The GLI18V-420 also provides a dial to adjust light diffusion and a hard rubber strap for mounting. The light works with the Bosch 18V battery system, which provides continuous run-time of up to 13.5 hours on the 6.0 Ah battery. The unit offers a tough exterior housing and an aluminum heat sink.

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# The prevalence of **VEHICLE PROGRAMMING**

J2534 programming continues to become more commonplace for many aftermarket shops. But how do shops make the most of this service?

By Barry Hoyland, Contributing Editor

**L**et's first come to agreement on some terms used when discussing programming a computer module on today's vehicles: flash, reflash, program, reprogram and software update are universally used to mean installing or updating software in a module or modules of a vehicle.

It is much easier to achieve customer acceptance when they can relate to a procedure. The terms programming, reprogramming and software update are much more familiar — compared to "flash" or "reflash" — because customers already have experience with those processes on their laptops and smartphones. There is a difference between a program and a reprogram, though. Typically, a program is the process of installing software into a module after that module has been replaced. A reprogram is when current operating software in a module or modules is changed in order to operate differently.

The need to perform programming services is now more relevant in the aftermarket than it has ever been, but it seems there is still a lot of resistance from shops to get in the market. With the advent of CAN networks, there are many more instances where programming is necessary when a component is replaced. Many vehicles now require a programming event when seemingly normal service repairs, like battery replacements, are done.

When programming is necessary, there are a few different options available to the technician. One option is to purchase factory scan tools that have programming capability for each make of the vehicles being repaired. Depending on how many different types of vehicles are worked on, that could be quite expensive.



▲ *It is extremely important to have a battery maintainer that will keep the supply voltage at a specific level. Voltage that drops below or rises above that level can cause not only the programming to fail, but, in some cases, make the module unusable.*

Associated Equipment

## **TOOLS USED:**

- Scan tool
- DMM
- Repair information
- Battery tester
- Battery maintainer
- J2534 programming tool
- Laptop

Another approach is to use either a mobile service or another shop to perform programming services. The positive is that you do not need to invest your time and money into a technology. On the down side, eventually you will need to perform those services in-house in order to both improve profits and the ability to repair vehicles on your time schedule rather than relying on someone else.

We will discuss the need to perform programming services as well as the tools required and some of the pitfalls that can occur if the proper steps and precautions are not taken.

## **1 DETERMINE THE NEED**

Programming a module is necessary when the module is replaced. First of all, a module is typically built to fit many different applications, and the variations between vehicle models and options usually uses different software programs to function properly. The other reason is modules need programming to be "introduced" to a CAN network of the vehicle or initiated to be able to communicate properly with other modules.

Reprogramming modules is done to either correct emission issues or resolve issues affecting operation of a specific system. In most cases with an issue requiring reprogramming, a TSB (Technical Service Bulletin) will be issued by the vehicle manufacturer. It is important to keep in mind that if you are reprogramming for an emission update, once the update is installed you will not be able to revert to the prior version of software because the vehicle will no longer be in emission compliance.

There has been a shift in the repair industry on when to obtain information



◀ *Before deeming a programming is necessary, it's important to conduct essential diagnostic tests. Use a battery/charging system tester, like the Clore Automotive SOLAR Digital Battery and System Tester, No. BA427, to check the battery and charging system.*  
Clore Automotive

and/or repair assistance during the repair process. In years past, technicians would reach out to information sources and hot-line help desk services toward the end of a diagnostic strategy after they had exhausted their traditional test methods.

Now with much better information services, relevant diagnostic information and more current TSBs, it is best to check for applicable repair information, TSBs and common failures through sources like *IdentiFix* at the beginning of your diagnosis. Doing so does not mean you can ignore essential diagnostic procedures such as verifying the customers' concern or testing all the systems that can affect vehicle operation, but it can save a lot of time by providing a shortcut to a likely issue.

Part of determining if a reprogram is warranted per any TSB is to verify the applicability to the vehicle. This is done by verifying if the VIN and production date fall within the ranges specified in the service campaign. It is also necessary to verify the TSB is relevant to the vehicle by checking if the symptoms are present. If the symptoms designated by the TSB are not present in the vehicle, changing the software could cause drivability issues that were not present before the update.

For example, a reprogram would be warranted if the vehicle manufacturer determined that during some conditions a false EVAP system leak DTC will be set. The vehicle manufacturer determines if any hardware changes are necessary in addition to changing the operating or monitoring of the EVAP system by a software update that prohibits the false code from occurring. Another software change could be necessary if the vehicle manufacturer has

found that, after a specific number of miles, some vehicles exhibit harsh gear shifts. In this case the manufacturer will change software to reduce the engine rpm shift point or transmission pressure to soften the shift.

In either case, if the issue was not relevant to the specific vehicle, changing software could cause drivability concerns. In the case of the EVAP update, an EVAP leak may not be detected by the PCM. In the case of the transmission shift update, the transmission now may slip between shifts due to lower pressure.

## **PERFORM A COMPLETE SYSTEM DIAGNOSIS**

In every case of programming or reprogramming it is necessary to diagnose the system completely and properly. In the case of a module replacement, it is necessary to determine why the module failed. Was it just a faulty module, or was there a short in the wiring or another component that damaged the module?

Start with obvious, but sometimes overlooked, essential diagnostic tests. Use a battery/charging system tester to check the battery and charging system. Use a DMM or a circuit tester like the *Power Probe IV* to test for opens and shorts in the system. Always test solenoids that are controlled by that particular module for shorts. This is necessary because those solenoids only operate under certain conditions and may cause the new module to fail when those conditions are met after the repair.

Use your scan tool to both monitor PIDs to see if components are either working correctly, or if they are operating in the fashion laid out in the TSB. It is also a good idea to observe Mode \$06 test results ➔



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to see if any issues exist that pertain to the customers' concern. You should also use bi-directional controls to make sure systems are responding properly to commands.

All of these tests are necessary to determine the functionality of components. Two specific reasons to test in this manner are to understand why a module failed, and how an improperly working component can affect the overall operation of a vehicle after a software change.

## 3 PREPARE FOR THE SOFTWARE UPDATE

In preparing for the software update, there are some processes that are required for all J2534 compliant tools as well as manufacturer-specific programming tools. In order to obtain both programming and tool requirements from vehicle manufacturers, it is necessary to go to the vehicle manufacturer's website. An easy way to do this is to link through either [www.oem1stop.com](http://www.oem1stop.com) or [www.nastf.org](http://www.nastf.org). Both of these sites provide links direct to vehicle manufacturer websites that include the necessary information to determine the specific requirements of the vehicle to assure success during the programming event.

It will be necessary to have some information from the vehicle including the current software version, the VIN and production options, also referred to as RPO codes. I typically use my phone to take pictures of the VIN and RPO labels, which includes the RPO codes, in order to easily access this information.

One of the most important things is to make sure the vehicle battery voltage is sufficient and will not go below a minimum voltage during the programming process. Vehicle manufacturers in many cases specify which battery maintainers are approved to use during a programming event. It is extremely important to have a battery maintainer that will keep the supply voltage at a specific level. Voltage that drops below or rises above that level can cause not only the programming to fail, but, in some cases, it can make the module unusable. Normal battery chargers are not acceptable because their output rates are not stable or conditioned to prevent voltage spikes.

J2534 tools by definition all provide

programming capability. To meet the SAE J2534 specification, all tools need to be capable of being a universal programming tool to all makes and models. After purchasing a programming tool, software will need to be loaded onto your laptop. When doing this, make sure the laptop operating system you have is compatible with the programming tool. If you are using Windows 10, make sure the programmer is capable of operating in that environment. If other software is loaded onto that laptop, make sure it is compatible with the programming software. In most cases this is not an issue, but in some cases a vehicle diagnostic program may interfere.

A high-speed, stable Internet connection is required. In most cases it is best to not use a wireless connection to either the Internet or the vehicle. Background programs such as anti-virus or screen saver programs should be closed during a programming event. It is advisable to have your laptop plugged into a power source to make sure it does not shut down during the programming process.

Where J2534 tools differ is their support. Many of the tools come with a "toolbox." The toolbox provides information to the user about how the tool works with a specific vehicle, what issues may arise, and what precautions and steps may be necessary during the programming process. The better a toolbox is in providing correct information regarding what is necessary to do during the programming event, the more valuable it is. Another difference between tool makers support is how easy it is to access help if issues arise.

This "toolbox" also provides a link to the OE website in order to purchase the necessary program software. This software is available for purchase either on an annual, monthly or daily basis for most manufacturers.

## 4 PERFORM THE SOFTWARE UPDATE

Once you purchase the software, the J2534 programming tool is connected to the vehicle DLC and your laptop. Think of the J2534 tool as the interface or communication link between the laptop and the vehicle.

## Tools Used

### J2534 Programming Devices

By definition, J2534 tools all provide programming capability. To meet the SAE J2534 specification, all tools need to be capable of being a universal programming tool to all makes and models.



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▲ Launch Tech J-Box 2 pass-thru device

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▲ DG Technologies d-bridGe PRO

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▲ Bosch Diagnostics Mastertech VCI OEM Hardware Kit

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After you start the update process, instructions will appear on your screen. Some of the instructions may be to disconnect certain fuses, components or modules in order to perform the update. These steps must be done in order or it can affect how, or if, the programming works. There will be many key on/off cycles that need to be done. Make sure to follow these instructions closely and take care to not start the vehicle until told to do so.

I have found that it's best to place your laptop on the roof of the vehicle and reach in through the driver window to cycle the key in order to keep from having to open and close the door. Be aware in many cases some components like cooling fans or other relay driven components can operate during the programming process. Again, it's important to maintain proper battery voltage via a battery maintainer while these components are operating.

One of the last steps in programming is to configure the software to match the specific vehicle. Configurable items may include tire size or gear ratios.

## 5 VERIFY OPERATION

After installing the software it will be necessary to perform a few tasks such as cam/crank relearns, resetting steering angle sensors, idle speed and other "learned" strategies. In some cases, it may be necessary to relearn key codes for anti-theft systems. In those cases, information was most likely

provided during the program process on how to accomplish this. Be aware many Ford products will require at least two ignition keys to perform this function.

It will be necessary to perform a drive cycle on the vehicle in order to complete monitor tests. Use Mode \$06 on your scan tool to verify all monitored systems are functioning within their test limits.

It is also a good idea to use your scanner to recheck communication between all the modules to assure they are functioning properly.

The process of programming or reprogramming seems intimidating from a time standpoint, but in many cases it is a very quick process only taking 15 to 20 minutes. Some vehicles can take a few hours to program all the modules. Once you have a better understanding of the process, you can make an educated decision on which vehicles you will choose to program and which you decide are not profitable and use other resources to service them.

## A FINAL WORD

With Right-to-Repair legislation changing the aftermarket landscape in the very near future you will most likely need to perform more programming services to stay competitive.

I will paraphrase part of a quote widely attributed to President John F. Kennedy in order to determine if you should program vehicles: If not you, who? If not now, when? **P TEN**

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## Portacool Jetstream 240 evaporative cooler

The reviewer is quite impressed with the cooler's portability and performance.

by Mike Schmidt, Managing Editor

**T**he dry, warm summer weather in Hemet, Calif. can make work conditions quite uncomfortable for technicians at Phil's Auto Clinic. So when shop owner Phil Fournier decided to test the Portacool Jetstream 240 evaporative cooler as a means to address the high temperatures in and around his bays, he hoped to it would lead to a noticeable improvement in the work environment.

"It'll be about 65 degrees (F) out when we come in in the morning," he says. "But as the sun comes up, the temperature goes up with it. By noon, it's often 95 degrees (F) and up inside the shop. It's just hot, and it can get hotter than that."

Fournier began using the Jetstream 240 evaporative cooler around the first of June, and he has used it just about every day since then. Setting it up involves filling the attached water tank every morning, which helps address the

chapped lips, irritated skin and other ailments he and his techs are forced to deal with due to the dry weather that's often in the forecast for Hemet. Fournier says he has noticed about a 20-degree difference in the temperature where the Jetstream 240 is located compared to other areas of the shop.

One cooler, he notes, is able to keep approximately two bays cool. Fournier is impressed by that performance, as his facility is about 6,000 sq. ft. and has 18' ceilings.

The techs at Phil's Auto Clinic have taken advantage of the Jetstream 240's portability. Because it is on wheels, Fournier says, it's quite easy to move it from bay to bay and position it just right.

"Let's say you are right under a dashboard, which is not a particularly comfortable place when it's hot,



you just park it at the middle of the vehicle and blow it through the door," he continues. "It really makes your job a whole lot less miserable."

While Fournier has found the fan to be a bit on the loud side, he says he and his techs have been able to overcome the noise it emits.

"If somebody hollers at me across the shop, I can't really understand them," he says. "I hear their voice, but the noise of the fan makes it so it's difficult to understand them. They end up coming closer or switching the fan off."

Overall, Fournier says those that work at his shop have come to really appreciate the Jetstream 240's cooling power and portability, and they see it as a preferred (and more cost-effective) alternative to air conditioning in the shop.

"I'm really happy with it, and my technicians are happy with it, too," he adds. **PTEN**

### PRODUCT DESCRIPTION:

The Portacool Jetstream 240, 61" tall by 42" wide by 24-1/2" deep, features the smallest footprint in the series of evaporative coolers. This Jetstream can easily be moved and can cool spaces up to 1,125'. The Jetstream 240 provides 4,500 cfm of air delivery at a velocity of 29 mph. It offers a liquid level indicator with automatic pump shut-off; a drain for easy, effective cleaning; built-in handles for easy mobility; heavy duty casters; a 50-gal reservoir; and more. This evaporative cooler comes with the Portacool Protect lifetime warranty on evaporative cooler housing against manufacturing defects and a three-year warranty on all electrical components.

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## Coast Wide Angle Headlamp



This light helps the reviewer focus on the tasks without getting in the way.

by Josh Smith, Assistant Editor

**K**en Elzinga does a lot of underdash work, and often, there is not much room to use traditional flashlights. So the Wide Angle Headlamp (No. FL60) from Coast provides the owner of Hilltop Auto Service in Byron Center, Mich., a lot of convenience.

“The Coast headlight helps me to focus on the task and doesn’t get in my way,” he says.

“I also use it when I am under a vehicle, lubing the suspension and steering,” Elzinga adds. “Here in Michigan, the grease fittings are often covered with salt and grit. These need to be cleaned before greasing. Having the headlight allows me to direct the light to the fitting so that I have both hands free to clean, and then operate the grease gun.”

What’s more, he uses the FL60 to do brake inspections, noting the bright beam helps him inspect the condition of the brake pad while the wheels are still on. No matter the application, the Coast Wide Angle Headlamp has proven to be a time-saver.

“When I know I am going under a dash or have to see underneath a vehicle, I grab this headlight, so that I don’t have to use my flashlight,” Elzinga says. “This leaves my hands free to do whatever I have to work on.”

After installing the batteries, set-up was complete and Elzinga says the device is very easy to use.

“I like the three-position intensity switch,” Elzinga explains. “I usually use the first setting, but sometimes the other settings are helpful to get just the right amount of light.”

Elzinga says there was nothing not to like about the FL60, adding he had used a previous version of the headlight. He notes the FL60 “is twice as bright, which is really helpful.”

“It has helped me to be more efficient when trying to work in dark spaces and is very bright,” Elzinga says. “It also seems to last a very long time on the batteries. I have not had to replace them yet, and it is still very bright.” **P**TEN

### PRODUCT DESCRIPTION:

The Coast Wide Angle Headlamp, No. FL60, can illuminate large areas with its ultra-wide, consistent circular beam. A conveniently located button on the front of the headlamp allows the user to swiftly change between high, medium and low light outputs. The headlamp, which offers up to 300 lm of light and as much as 22 hours of run-time, comes with a IPX4 weatherproof rating, safety reflective strap and helmet clips. With a hinged beam, this hardhat-compatible light is also impact-resistant, offers a beam distance of up to 95’ (29m) and comes with the company’s lifetime warranty. It is tested and rated to ANSI/FL1 standards. The 3.3 oz headlamp includes three AAA batteries.

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## Redline Detection HD PowerSmoke

The reviewer says this tool is something shop owners need to see in action and invest in.

by Josh Smith, Assistant Editor

**E**ric Moore has used other smoke machines for diagnosis before. But he says the thought and engineering in the patented adapters for the Redline Detection HD PowerSmoke set it apart from other tools, adding the adjustable pressure makes this tool versatile.

“The whole tool is just fantastic,” he says.

Moore and his techs at DeMary Truck in Columbus, Ohio, used the HD PowerSmoke on many vehicles – including the Mitsubishi Fuso Canter, for which DeMary Truck is a dealer.

“We have diagnosed emissions issues, DPF efficiencies, EGR systems,” he explains. “A lot of what the Redline Detection HD PowerSmoke was used for was finding exhaust leaks in SCR systems. With today’s diesel vehicles needing to be clean idle certified, the exhaust/emissions systems are extremely complex and have very specific ranges where they will work or not work. The smallest exhaust leak can cause false readings, MIL sets, de-rating of engine power and ultimately break down if gone unrepaired.”

Moore says the HD PowerSmoke is 99 percent effective in finding these leaks, with the remaining 1 percent unfound due to improper use of the tool or technician oversight.

“I can’t stress enough how helpful this tool is in finding the elusive failures that used to result in hours of tear down and inspection,” says Moore.

While offering an increase in efficiency and productivity, Moore says the tool requires a little assembly and preparation. Once out of the packaging, smoke producing fluid (which comes included with the HD Powersmoke) needs to be added and the attachments need to be arranged. Moore says a representative from Redline visited his shop and spent time with the technicians.

“Once he went over it, and showed them some techniques, it (was) really simple to use,” Moore says. “It probably, on average, takes longer to set it up for the application than it does to actively use it. At times, it can be a ‘set it and forget it’ tool, as it takes time for the vapor to travel throughout the system being tested. This allowed the tech to accomplish other tasks while waiting for the results.”

### PRODUCT DESCRIPTION:

The Redline Detection HD PowerSmoke is a diagnostic leak detector that can deliver variable pressure, high-density vapor, through the 20 psi range, says the company. Weighing 19 lbs, this technology replicates the full load of a heavy duty engine so the entire system can be safely tested for faults with the engine off. It is the only diagnostic leak detector available today that can, in a single procedure, reliably detect any high-pressure leak, pinpoint its exact location, and precisely identify failing components, according to the company. Use this tool to find turbo/boost leaks; charge air cooler leaks; exhaust system leaks; wind leaks and water intrusion; carbon monoxide leaks in the cab; cooling system leaks; intake system leaks; and more. The HD PowerSmoke has highly visible vapor which is completely free of dyes and other contaminants. The HD PowerSmoke also provides up to 40-times the pressure of typical EVAP; runs on compressed air; is powered by 110-250V AC or 12V DC; and performs decay/leak down tests. The HD PowerSmoke comes with all necessary adapters included and two, 8-oz bottles of smoke producing fluid, enough to test more than 800 vehicles.

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The Redline Detection HD PowerSmoke comes packaged in styrofoam and the accessories come in blow molded cases. Every machine comes with a detailed operating manual. Moore notes there were two DVDs in the package and he found applicable YouTube videos online too.

“While some of our techs were intimidated by the Redline Detection HD PowerSmoke, the ones that used it are absolutely in love with it,” Moore says. “No rating goes high enough to put a number on this piece of equipment. This is one that shop owners need to see in action and invest in.” **PTEN**

## AutoEnginuity Giotto scan tool

The reviewer is quick to praise the coverage and capabilities of this scan tool.

by Mike Schmidt, Managing Editor

**S**hop owners are always looking to maximize their return on an investment in a tool or piece of equipment. So when it's time to purchase a scan tool, they want quite a bit of performance for the price.

According to Barry Hoyland, owner of Vehicle Service Solutions of California, the AutoEnginuity Giotto scan tool provides everything he looks for in an aftermarket offering.

"I think this is one of the best values out there for a scan tool," says Hoyland, of the Version 14.1 he tested. "It's got outstanding coverage and outstanding capabilities."

The Giotto's ease of use, coupled with the number of PIDs that were available, impressed Hoyland when he tested it on various Asian, domestic and European vehicles. The tool arrived complete with a carrying case, cables, software, VCI and user guides, and he notes that there are optional enhanced cables for Mercedes, BMW, Nissan and Volkswagen/Audi. In addition, he says, there are Quick Start guides provided for the tool and the enhanced interfaces.

Hoyland employed this tool to monitor PIDs, check DTCs, observe Mode \$06 and more. He says he most often utilized the tool to scan all modules and graph multiple PIDs, and he adds the ability to graph sensors quickly and

tool's baud rate are two of the most beneficial aspects of the offering.

"And because this tool has a fast boot-up time, VIN decoder and easy-to-navigate menu, it speeds up the diagnostic process," he continues.

"In the main menu, it has icons for grouping. For example, if you want to look at graphing, or meter or live data, those are all broken down. Within each main menu item, there are drop-downs for you to select or deselect items based on that," Hoyland adds.

The ability for him to add or remove graphs while viewing them, as opposed to leaving the graphing and returning to a menu to select PIDs to view, also impressed Hoyland.

He notes he has used a previous version of the AutoEnginuity Giotto scan tool, and that the latest iteration offers an improved menu and better graphing capability, as well as compatibility with Windows XP, 7, 8 and 10.

"AutoEnginuity also releases updates throughout the year as part of the subscription and has data and enhanced scan capability for the current model year," he adds.

Overall, Hoyland was impressed with the tool and was unable to suggest any immediate additions or improvements.



### PRODUCT DESCRIPTION:

The AutoEnginuity Giotto diagnostic scan tool is available for Windows or iOS platforms. It allows users to read a vehicle's diagnostic trouble codes, live vehicle sensors, and IM240 system test results to quickly determine what service the vehicle requires. AutoEnginuity offers manufacturer-specific options for BMW, Ford, GM, Chrysler, Toyota, Nissan, Hyundai, Kia, Land Rover, Jaguar, Honda, Subaru, Porsche, Mitsubishi, Isuzu, Audi/VW and Mazda group vehicles. It also offers expanded Ferrari/Maserati coverage to include several new models, adds dozens of new controllers and improved existing coverage. New model support for BMW/MINI, including 7 series, Z4 and X5/X6 support, as well as CLA model and GLA model support for Mercedes Benz is also included. AutoEnginuity recently released Version 14.3.

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"I like the ease of use as well as having current model scan capability," he says. "The model coverage paired with a relatively low purchase and annual subscription cost create a lot of value for your dollar." **PTEN**

# Category Spotlight

Tire and Wheel Service

In addition to product details on a specific category, this section now features a number of different resources on this subject. Use the key below to determine what type of content you're reading.



PRODUCT



VIDEO



ARTICLE



ASK THE EXPERTS



TECH TIPS



## REDUCES OR ELIMINATES BACK INJURIES

The **Omega Wheel Arm**, No. 92100, efficiently holds tires onto standard above-ground and in-ground two-post lift arms. The Wheel Arm eliminates the need for technicians to twist, bend over and lift tires to and from the ground while performing any type of tire, brake or suspension work, which helps significantly reduce or even eliminate back injuries due to those types of actions. The Omega Wheel Arm's adjustable mounting bracket fits 95 percent of all two-post lift arms on the market and can support 99 percent of all passenger car and light truck tire and wheel combinations. Installation takes less than 15 minutes and two magnetic lug nut trays are included.

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## BEAD BREAKING LOW-PROFILE AND RUN-FLAT TIRES ON CORGI ARTIGLIO MODEL TIRE CHANGERS

Due to recent trends toward low-profile tires, with wider and lower aspect ratios, and run-flat tires, breaking down the tire bead has become more and more difficult and time-consuming.

The difficulty is due to the design of larger mounting humps and a more pronounced bead area for higher safety and performance. Specific demounting guidelines have been developed to address the change and ensure the tire, wheel and equipment used with professional competent staff. The demounting guidelines describe each step and provide additional information as to special environments which have to be considered.

Corgi Artiglio (AM) model tire changers have the technology to break down these wheel assemblies without damaging the tire or wheel. This capability allows one operator to the wheel assemblies in minimum amount of time.

1. Mount wheel assembly to the turntable.
2. Position the sensor in relation to the mount/demount head at 6 o'clock.
3. Position the bead breaker roller below the rim flange activating the bead lock.
4. Apply two to four pumps of pressure and rotate clockwise 8-10".
5. Apply two to four pumps of pressure and rotate counter-clockwise 8-10".
6. Repeat steps 4 and 5 until bead is broken.
7. Rotate the wheel 360 degrees to completely separate the bead.

Perform the same procedure to break the bottom bead. Note that using a liquid or paste tire lube during these steps will shorten the total amount of repetitive steps needed.

*Information provided by: Corgi USA*

## MOUNT/DEMOUNT IN 30 SECONDS

The **RAV America Pilot High Performance Truck Tire Changer**, No. GTB-16N, can mount and demount 22.5" tires in 30 seconds. The GTB-16N's three-stick controller is designed to increase ease of operation. This tire changer can also be used on light duty truck tires between 17.5" and 19.5". This tire changer comes standard (220V 3PH) and optional (220V 1PH).

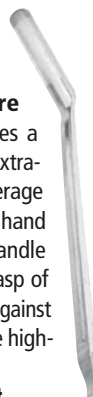
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## 30-DEGREE ANGLED HANDLE

The **Steelman Pro Low Profile Tire Removal Tool**, No. 99719, features a 30-degree angled handle design with extra-long length to provide increased leverage and reduce strain on the technician's hand and wrist. The super-grip knurled handle provides technicians an increased grasp of the tool, and better control of the tool against stiff sidewalls. It is made from durable high-strength carbon steel.

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## VIDEO: ATEQ VT56 TIRE TREAD DEPTH GAUGE



To watch a video demo of this product, go to: [VehicleServicePros.com/12196709](http://VehicleServicePros.com/12196709)

## OIL RESISTANT, ANTI-SHOCK RUBBER HOUSING

The **OEM Automotive Tools Digital Tire Inflator**, No. 24412, was designed to accurately measure tire pressure and provide a fast and easy means to inflate tires. It allows high air flow into and out of the tire, quickly saving the technician time and helping prevent TPMS light comebacks, according to the company. Reading Accuracy: +/-1.2 psi up to 58 psi, +/-2.3 between 58 psi and 145 psi inclusive and +/-3.6 psi greater than 145 psi. The measuring range is 0-12 Bar (0-175 psi) and the maximum inlet pressure is 15 Bar (218 psi). It is designed with an easy-to-read back-lit LCD display, four units of measurement (psi, bar, kPa and kfg), low battery indicator and an oil resistant, anti-shock rubber housing cover. Includes a 21" rubber hose with a clip on air chuck.



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## CENTER POST TIRE CHANGER

The **John Bean T7100S Tire Changing System**, No. T7100S, from **Snap-on Equipment**, is a center post tire changer designed for easy use with minimal training of technicians. The PROspeed feature provides rotational speed maximized by automatic inverter control with a variable speed from 7 rpm to 18 rpm. A swing arm style mount/demount provides a quick change design with non-marring plastic and metal mount/demount tools included. An integrated bead pusher assists in the mount/demount process of the upper bead while a tire lifting tool aids the technician with the demounting process. The side-mounted, hand-activated bead breaker is activated by a thumb switch at the point of use. The center post clamp design reduces risk of wheel damage and accommodates a wider range of wheel sizes, according to the company. An integrated roller board eases bead breaking.



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## HELPS EASILY REMOVE SEIZED OR FROZEN LUG NUTS

The **Lock Technology Lug Ripper II** removes seized or frozen lug nuts off of the rim of a vehicle in 11 minutes or less, without damaging the tire rim of a vehicle. This tool is a specialized drill bit that is so strong it can cut into 4" of steel up to 200 times. The Lug Ripper II is designed for 17mm, 19mm, 21mm and 23mm lug nuts. It is made out of carbide metal strong enough to remove lug nuts multiple times. The cutting head or threads are designed for cutting out the inside of the lug nut only. The center of the shaft is hollow to allow the stud to go inside during the drilling process. The mounting end has a round shaft that will be inserted into a standard low rpm 1/2" air drill.



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## OPERATES ON 110V AC OR 12V DC

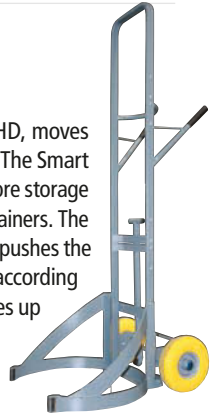
The **CEMB USA Portable Wheel Balancer**, No. EZ29, will operate on standard 110V AC voltage as well as 12V DC. It offers automatic entry, split weight program, quick nut mounting and more. With wheels and a standard lightweight battery pack, it can be used for mobile service or brought to the vehicle.



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## MOVES TIRE STACKS EIGHT TO 10 HIGH

The **Gaither Tool Smart Tire Cart**, No. G471147HD, moves mounted tires, wheel sets and stacks eight to 10 high. The Smart Tire Cart stacks tires close together, which allows for more storage space. It can be used to load and unload trucks and containers. The patented tilting action and the push/pull system, which pushes the tires out of the cart's arms, relieves stress off the user, according to the company. The cart works with 15" passenger tires up to truck size 245/70R19.5.



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# Category Spotlight

Tire and Wheel Service

## FOLD DOWN DISPLAY WITH LARGE WEIGHT STORAGE AREA



The **GRP Redline 3200** is an economic full size balancer with two dimension automatic data entry and stick-on weight applicator. This balancer has a hidden weight spoke mode, foot break for precise weight placement and quick-nut standard. The 40mm shaft accommodates flange plates, motorcycle wheels and wide-wheel assemblies. This balancer features a fold-down display with large weight storage area and has several accessory options, including an offset spacer, truck cone, motorcycle adapter and offset spacer and truck cone kit.

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## OFFERS SELF-DIAGNOSIS AND SELF-CALIBRATION

The **Monster Wheel Balancer**, No. MSTWB-1, can handle rims sized 10" to 32", but it requires some manual input of data for rims 23" to 32", and can handle wheels up to 150 lbs. It provides self-diagnosis and self-calibration. The MSTWB-1 displays in both standard and metric units and includes a 110V/1-phase motor.

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## VIDEO: BOSCH TCE 4295 TIRE CHANGER



To watch a video demo of this product, go to: [VehicleServicePros.com/12216547](http://VehicleServicePros.com/12216547)



## ACCOMMODATES TIRES UP TO 12.8" WIDE

The **Sunex Tools Wheel Dolly**, No. 7708, opens to 24" to accommodate tires up to 12.8" wide. It features a ratcheting mechanism that is maintenance-free and reduces its weight. With a 1,500-lb capacity each, they are capable of moving virtually any passenger vehicle. Outboard locking casters ensure user safety and keep the vehicle secure.

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## SIMPLIFIES THE PROCESS OF TIRE INSPECTION

The **Bartec USA Wireless Tread Depth and Pressure Tester**, No. WT1100P, is designed to help technicians simplify the process of tire inspection. The WT1100P tool prompts the user with a bright and intuitive display, captures tread depth measurements in three places and features an optional pressure test. The WT1100 also features a light so the technician can easily see underneath the wheel arch or in low-light conditions. The WT1100 tool can measure and document tread condition and tire pressure without creating more paper or lists - the information is collected and sent via wireless Bluetooth to a PC or tablet, where users can then show customers the reports.

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# Big-Time Boxes

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



▲ Jeff Milburn, owner of Automotive Fabrication in Dallas, upgraded from an already large toolbox to a Snap-on EPIQ that stands 8' tall and 22' long.



**OWNER:**  
**Jeff Milburn**  
Automotive Fabrication  
Dallas, Texas

## Texas-sized storage

A toolbox befitting of the Lone Star State

by Josh Smith, Assistant Editor

**T**hey say everything's bigger in Texas. In the case of Jeff Milburn's toolbox, that saying rings true.

Based in Dallas, the professional stunt driver and owner of Automotive Fabrication utilizes a Snap-on EPIQ toolbox that stands 8' tall and 22' long.

"According to the distributor and their reps from this part of the country, when I ordered that box, they had never sold anything that big, or like that. They had sold some with hutches on them that are that wide, but not that were all toolbox," proclaims Milburn, who has owned his new box for a couple years.

Milburn's business performs work on vehicles used in movies and car commercials, and prior to that he worked at both a body shop and a dealership. Plus he does some fabricating work and repairs motorcycles. Needless to say, Milburn's tool collection has grown and become incredibly diverse over the years. That's why he upgraded from an already-large toolbox to his current EPIQ setup.

"We have to be able to work on, literally, anything," he says, noting Automotive Fabrication has seen vehicles ranging from 1910 Oldsmobile models to prototype Toyota vehicles, and even 18-wheelers and racecars. "Any kind of car you can think of. So I have all these special tools."

With his tool collection growing and space in his former box shrinking, Milburn became intrigued by the EPIQ's option of having dual lockers with a cabinet on top. He keeps his commonly used tools in one cabinet, so he can grab them quickly when he leaves the shop to go on set.

He also custom-ordered all the drawers in the box because he devotes one side to metric items and the other side to standard-sized tools. The custom drawers accommodate the thousands of tools he owns, including more than 20 air die grinders, approximately 300 vice grips and multiple drawers of drill bits, taps and dies.

"I have one drawer that just has old Proto screwdrivers in it. I love Proto screwdrivers that have the original handles on them," Milburn explains, adding the overwhelm-



▲ Jeff Milburn needs multiple drawers to store his collection of 300 vice grips.

ing majority of his tools are made in the U.S.A. "I have a crazy thing for different types of body hammers. I have a drawer full of body hammers that is insane."

With a tool collection like that, Milburn needs a Texas-sized toolbox that can store it all. His Snap-on EPIQ gets the job done, but it's filling up quick. **PTEN**

*Want to see more photos of this storage setup? Visit: [VehicleServicePros.com/12227342](http://VehicleServicePros.com/12227342)*



*Want to show off YOUR Big-Time Box? For more information, email [Editor@VehicleServicePros.com](mailto:Editor@VehicleServicePros.com).*

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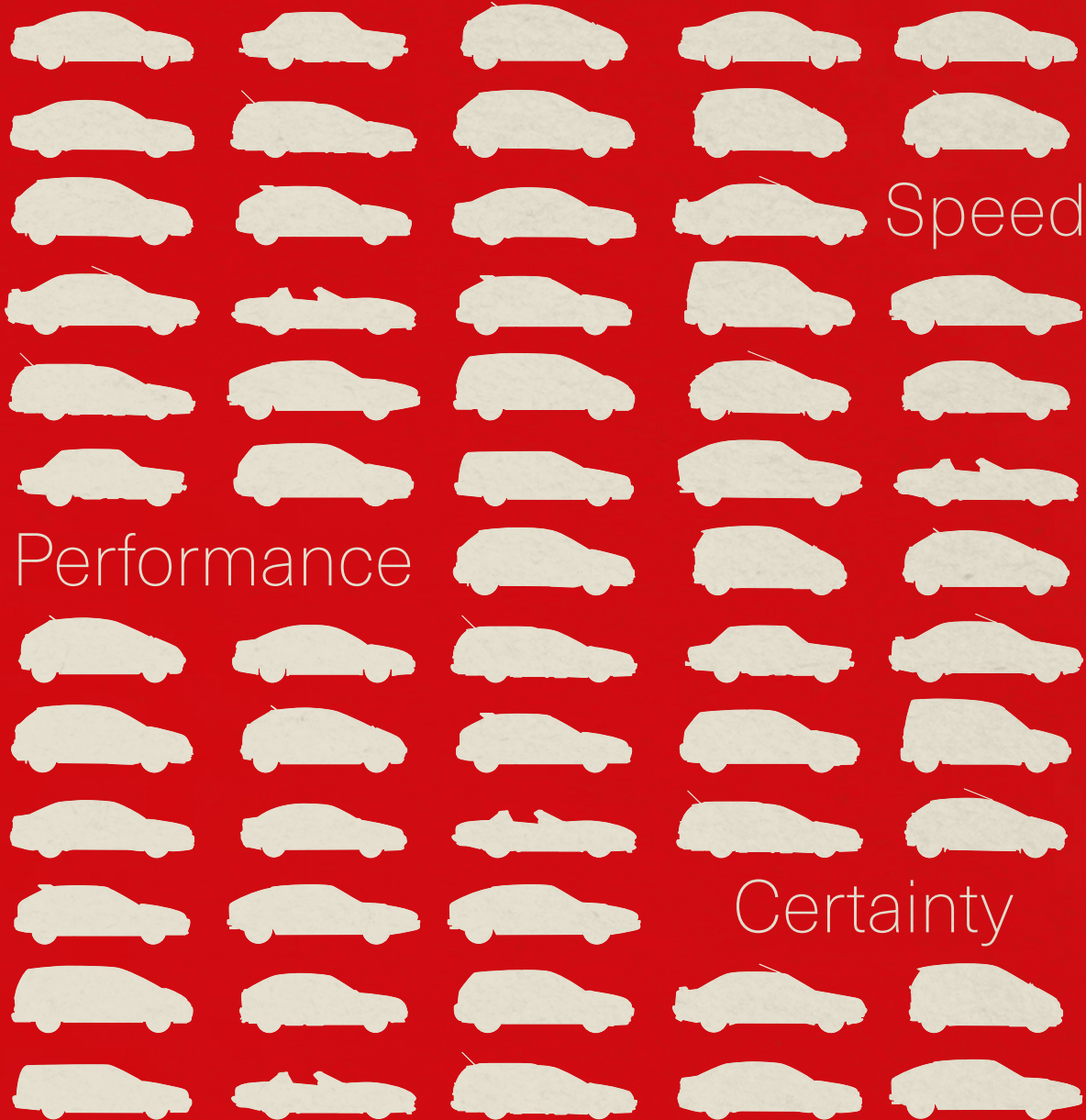
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