

PTEN

The Independent Tool Authority

Tool Briefing:

Help with diagnosing
obscure EVAP issues

Page 38



Exclusive:

2017 PTEN
Innovation Awards
Nominees, Part 2
Page 24

DUAL ACTION RANDOM ORBIT POLISHER

By Makita USA

Details on the
cover products
and other new tools
Page 10

▼ Compatible
with socket
sets from major
manufacturers

▼ Hand-actuated bead
loosener provides
point-of-use controls

▼ Provides access
in tight spaces



Tech Routing List ☐ ☐ ☐ ☐ ☐ ☐

FIX MORE CARS FASTER

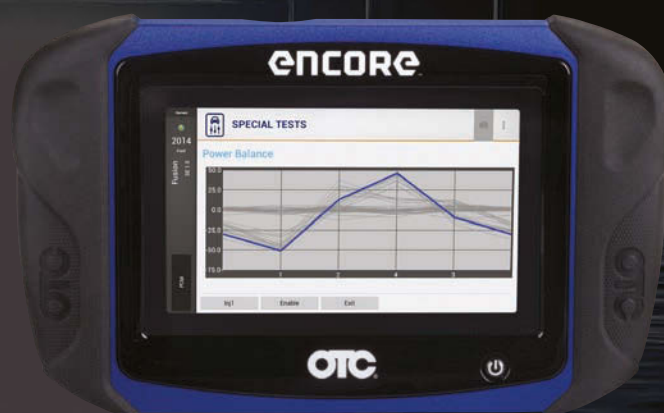
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- Low vibration facilitates improved working conditions, safety trigger
- Covered by a 1-Year Repairable Warranty



KT187124

HEAVY DUTY INDUSTRIAL QUALITY

1/2 HP 1/4" STRAIGHT DIE GRINDER

- Collet Size: 3-6mm (1/8"-1/4"), Free Speed: 22,000 rpm's, Air Inlet: 1/4", Suggested Air Pressure: 90psi, Average Air Consumption: 12cfm
- Low vibration facilitates improved working conditions, safety trigger
- Covered by a 1-Year Repairable Warranty

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JUNE Contents

Exclusive

24 2017 PTEN INNOVATION AWARD NOMINEES, PART 2

PTEN received so many entries, we needed two issues to feature all the products! Check out tools and equipment from the second round of the 18th annual PTEN Innovation Awards.

Features

10 FEATURED NEW PRODUCTS

Check out new tools from Makita USA, Hennessy, CAY Industries and SK Hand Tool. Then, read about all the other new products, beginning on page 11.

38 TOOL BRIEFING

Steps for how to complete a fault code analysis during a fuel evaporative system (EVAP) diagnosis.

42 TOOL REVIEWS

Our review panel gives feedback on the following tools:

- Kano Laboratories Kroil and AeroKroil
- Makita 18V LXT Sub-Compact Brushless Combo Kit

2017 PTEN Innovation Award Nominees

We can't fit all of the 2017 PTEN Innovation Awards nominees into one issue. For the complete list of nominees, and full descriptions for each product, visit:

VehicleServicePros.com/2017IANominees



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Departments

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Feedback from shop owners and technicians on today's aftermarket shops provides some insight into what your peers are doing.

44 CATEGORY SPOTLIGHT

This month's section features product information on J2534 programming tools and equipment. In addition to product details, this section features links to product video demos, tech tips and more.

48 MARKETPLACE

50 BIG-TIME BOXES

Owner: Alex Gutierrez
Shop: Sylvers Automotive
Location: El Paso, Texas

On Our Cover

5" Dual Action Random Orbit
Polisher, No. PO5000C
by Makita USA



In the Next Issue

The annual PTEN Product Showcase issue will be chalk full of new tools and equipment. We had a record number of product entries this year! See what's trending in the July 2017 Showcase issue.

**PRODUCT
SHOWCASE
2017**

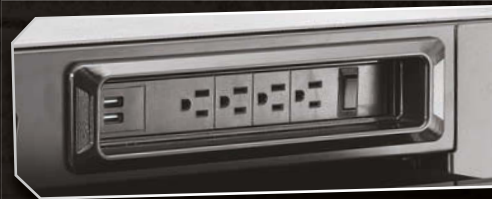
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**19-DRAWER
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MB1080PDP

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Tool Review

The Associated Equipment 12V and 24V Booster Pack, No. 6296, is a single, heavy duty unit that offers up to 3,400 peak amps in 12V mode. The 6296 is designed for jump starting cars, pickups, trucks, RVs and tractor trailers.

To read the full article, visit:
VehicleServicePros.com/20858305



Tech Tip



Farsight provides details on assistance with an Audi/VW 1.8L to 2.7L turbocharger with fault code P0411. A secondary air problem is not always caused by the secondary air system. To read the full article, visit:
VehicleServicePros.com/20863205

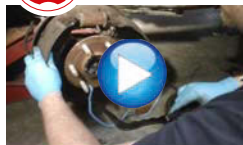
In the News



The automotive buyer intelligence firm Autolist.com released a study showing that a large number of millennials (Gen Y) and centennials (Gen Z) are interested in buying an autonomous vehicle. To read the full article, visit:

VehicleServicePros.com/20862854

Video



This video demonstrates how the Thexton GM Single Spring Release Tool works. To watch the video, visit:

VehicleServicePros.com/20859997

Featured Products



Master Inner Tie Rod Tool Set
OEM Tools
VehicleServicePros.com/20862245



Rise Helmet Graphic
Miller Electric
VehicleServicePros.com/20858619



Headlight Restoration Kit, No. 8405
The Penray Companies, Inc.
VehicleServicePros.com/20862042



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The Independent Tool Authority

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Editor's Note



What about other shops?

Some feedback from shop owners and technicians on today's aftermarket shops.

By Erica Schueller, Editor
Erica@VehicleServicePros.com

If it's not evident by the topics I like to cover in this brief note each month, I enjoy keeping up with changing technologies in the automotive industry. The changes in our industry seem to shift and grow exponentially every year. How can we all keep up?

To continue to be your resource for tools and equipment in the automotive aftermarket, it's important to find a balance between the hypotheticals and shiny new technologies, and what's happening on a daily basis in the bay.

One of the ways I stay up-to-date on what's going on with readers like you, is by reaching out to technicians and shop owners on our advisory board panel for input. It's great to get perspective at the ground level, to understand what you see in the shops on a regular basis.

Here are some of the highlights from recent conversations with PTEN advisory board members:

WHAT WAS YOUR TOP TOOL OR EQUIPMENT PURCHASE THIS YEAR?

A handful of techs and shop owners mentioned updating or purchasing new diagnostics in some form within the last year. Scan tools continue to remain a prominent purchase for many shops, due to the need for additional in-depth coverage, and the necessity to have coverage across the variety of vehicle makes and models.

Shops continue to adopt cordless power tool technology as well, with more technicians "cutting the cord."

Other takeaways included plans for updating larger shop equipment (an alignment machine, a shop press, a RRR machine), which understandably takes a bit more research for a more inherently pricey purchase. With regards to the RRR machine, the shop owner I talked with said

this was in response to servicing body shops his repair shop has partnered with, to service the R-1234yf refrigerants.

WHAT IS THE BIGGEST CHALLENGE YOUR BUSINESS FACES TODAY?

While hiring qualified technicians continues to top the list of many shop owners, as it relates specifically to tools and equipment, there are a number of issues aftermarket shops continue to face.

Common across shops is the increased need for in-depth servicing of multiple car lines. This translates into the need to have technicians specialize in certain makes/models, or certain areas of the vehicle, and having the proper diagnostic tools to service these vehicles.

Add to that the cost and need for more tooling, which continues to increase. This can have an effect on profit margins, says one shop owner. Because of this, there's an ever-greater need for creating a clear understanding about the return on investment for a tool or equipment purchase.

But, what good is a tool if you can't use it? Keeping up with these changing technologies requires education and training. Technicians and shop owners continue to find that balance between operating the shop and working on vehicles by educating themselves on how to use tools and equipment, and applying that knowledge to everyday diagnosis in the bay.

Are you interested in providing feedback? Our advisory board provides insight on daily shop operations and changes to tool and equipment technology in a shop setting. If you're interested in providing input to benefit the industry by becoming a member of the PTEN advisory board, get in touch by sending me a quick email message with your name, location, shop specialties and contact information. PTEN



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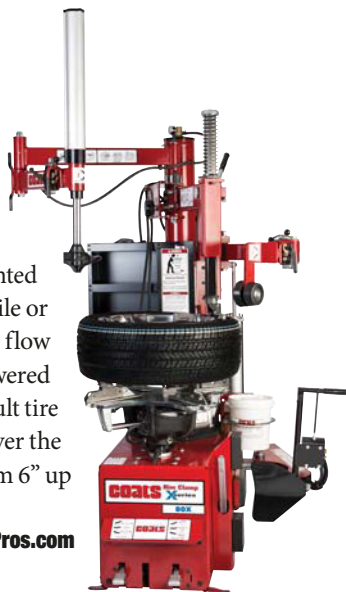
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FEATURED New Products

Hand-actuated bead loosener provides point-of-use controls

The **Hennessy Coats 80X Tire Changer** offers a number of advanced features to operate in high-speed tire shops. The hand-actuated bead loosener offers point-of-use controls to the technician, for a direct line of site to reduce the risk of wheel damage. The patented Robo-Arm Helper Device assists in changing low profile or run flat tires. The single point sealer concentrates air flow to seal the beads more efficiently. The RoboRoller Powered Assist provides additional power when mounting difficult tire assemblies by preventing the bead from rolling back over the mount tool. The 80X allows for external clamping from 6" up to 28" with the Grip Max Plus clamps upgrade.

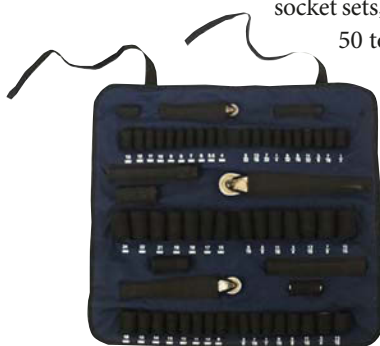
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Compatible with socket sets from all major manufacturers

The **CAY Industries Socket Roll** is a flexible, rollable sheath for storing and organizing socket sets, made from durable PVC nylon. The Socket Roll features 50 total sleeves for sockets, seven for accessories and three sleeves for 1/4", 3/8" and 1/2" drive sockets. Compatible with socket sets from all major manufacturers, the Socket Roll is marked for the most commonly used sizes in metric and SAE, and is fluid-resistant. The Socket Roll is available in blue, black camouflage, gray and pink.

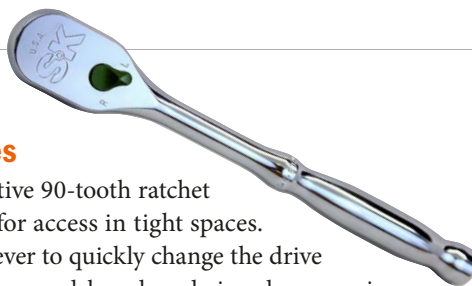
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Provides access in tight spaces

SK Teardrop Ratchets offer an innovative 90-tooth ratchet mechanism and a 4-degree arc swing for access in tight spaces. These ratchets feature a quick-change lever to quickly change the drive direction, a lower profile head than previous models and a redesigned ergonomic contour handle for a multi-position grip. The SK ratchets are available in 1/2", 3/8" or 1/4" drives, backed by a lifetime warranty and made in the U.S.A.

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



Dual action provides free and forced rotation options

The **Makita 5" Dual Action Random Orbit Polisher, No. PO5000C**, offers enhanced features designed for consistent performance. The dual action control offers "random orbit with forced rotation" or "random orbit with free rotation." With five speed settings, users can set the speed and action to fit the application. Additional features include an electronic controller that automatically applies additional power to maintain constant speed, even under load, and provides soft start for smoother start-ups and longer gear life.

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New Products



Designed not to damage the work area

Mayhew's 12-pc Brass Pin Punch Set, No. 67008 features new smooth polished brass that does not damage or mar the working area. The punch set includes 1/16", 5/64", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 7/16" and 1/2" sizes. This set is made in the U.S.A.

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Jump starts gas engines up to 10L

Weego's Jump Starter 66 jump starts gas engines up to 10L and diesel engines up to 5L. The 66 fast charges phones, tablets and laptops, powers 12V accessories and features a tactical, pro-grade built-in flashlight. Weego's patented Smarty Clamps was designed to make jump starting easy. The Jump Starter 66 is IP65 rated for water, dirt and dust resistance, and is backed by an 18-month warranty.

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Global OBD-II coverage

The Autel MD808 Pro Scan Tool can access all available modules for diagnosis operations, according to the company. The MD808 offers oil service reset, battery registration and reset, parking brake pad relearn, steering angle sensor relearn and diesel particulate filter (DPF) regeneration functions. This 4" handheld device provides global OBD-II coverage for domestic, Asian and European makes and models.

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Welds both gas shielded and gasless wire

The Titan U.S. ShopIron 180 Inverter Dual System Welding Machine can weld with both gas shielded and gasless wire. The additional ARC function allows this machine to also run arc welding electrodes. The machine features burn back control, step-less wire feed and voltage adjustment. The machine comes complete with a welding torch, arc lead set, regulator and adapter.

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Available in 3/8" or 1/2" drives

The M7 Air Angle Impact Ratchet is available in 3/8" or 1/2" drives and features 250 lb-ft max torque. The tool has forward and reverse ring control. It includes a composite rubber covered grip for improved comfort, and also features a jumbo hammer mechanism.

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New Products



Remote control operation

The **BendPak Cool Boss** is an industrial strength portable swamp cooler that pulls in hot, dry air from an outdoor source and pulls it through an evaporative media. Tap water pumps from a reservoir at the bottom of the unit and drips down into the media. When water contacts the hot air, it evaporates and cools the air up to 26 degrees F. The Cool Boss features a 30" diameter fan and oscillating swing-louvers to help force air over 2,000 sq.ft. It includes durable rolling casters and remote control operation.

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Folds up for storage

The **ProLine Parts Cart Standard**, No. PC-7500,

folds up for storage and takes up minimal floor space. The tight mesh shelves keep small items from falling through. The shelves are 2' in depth and 4' in length, with tube framing outlining the shelf for added strength. These carts feature hard rubber brake casters, a durable powdercoat finish and are made in the U.S.A. This cart is also available in Standard Plus (No. PC-7600), with rear parts legs that fold out for extra storage.

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Drive-on assist cameras come standard

The **Corghi Exact Linear 3D Wheel Aligner** comes complete with the hardware and software to handle automotive and light truck applications with Corghi's world databank. The Exact Linear features data entry, high-res targets and 3D cameras. Camera movement is controlled electronically at the keyboard and comes standard with drive-on assist cameras.

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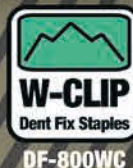
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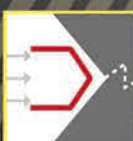
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New Products

Resistant to oil and grease

The Working Concepts Ergokneel Handy Mat offers 1" thick of closed cell foam rubber and is designed for industrial use. The mat will not absorb liquids and is resistant to oils and grease. It is 41" long, 17" wide and designed for kneeling, sitting or laying under a vehicle. The Ergokneel Body Mat has a handle for easy mobility and storage.

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Portable battery analyzer

OEMTools' Digital Battery Analyzer, No. 24369, is a portable battery starting and charging system analyzer. This analyzer provides a voltage range of 1.5V to 15V DC with a battery discharge current from 240 CCA to 2,000 CCA. The battery analyzer offers a menu for testing batteries and starting/charging systems. The unit checks voltage, cold cranking amps (CCA), resistance and overall battery, alternator and starter conditions.

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Large fastener capacity

The Sunex Wide Jaw Adjustable Wrench Series, Nos. 9611, 9612, 9613 and 9614, offers a large fastener capacity while remaining compact for any job. These wrenches are 50 percent wider on average and have 30 percent more jaw depth than standard adjustable wrenches, according to the company. Each wrench has an OSHA-compliant tethering hole, meets and exceeds ANSI standards and has a lifetime warranty.

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ALL-NEW POWER PROBE 3 S

The Power Probe 3S is designed to provide fast electrical testing, while keeping menu navigation effortless.

Building on the success of the past, this tool is now made simpler and easy to use.



SPEED

The large LCD display not only provides easier to see readings, with a simple menu you get the readings you need.



SAFETY

The included 8 amp thermal circuit breaker provides protection while powering up components, relays or circuits while still allowing inrush current for larger draw components.



VERSATILITY

With a new flip screen feature you can see screen readings while holding the tool upside down.



MENU DRIVEN

The PP3S has a menu driven screen that makes navigating a breeze for getting the test you need.

Circle 39 on card, or enter at "e-inquiry" on VehicleServicePros.com

WWW.POWERPROBETEK.COM | 1.800.655.3585 | 760 CHALLENGER ST. BREA, CA 92821

New Products

Automatically locks around the head of a fastener

The **Beta Tools Self-Locking Wrench**, No. 186, is designed to automatically lock around the head of a fastener. The wrench has two working ends: one accommodates fasteners from 8mm to 17mm, and the larger end accommodates fasteners from 14mm to 32mm. The design of the teeth allows it to remove damaged fasteners as well as hexagon, spline square head and Torx fasteners.

Circle 40 on card, or enter at "e-inquiry" on VehicleServicePros.com



Designed to offer accuracy, efficiency and reliability

Hofmann Geodyna Video Wheel Balancers are designed to offer accuracy, and efficiency and reliability, according to the company. The line consists of the 7200S, which is ideal for general use in shops; the 7400L is designed for high-throughput customers; the 7600L is designed for maximum speed; and the 7600P is designed for high-volume shops.

Circle 41 on card, or enter at "e-inquiry" on VehicleServicePros.com

Made in the U.S.A.

The **Coastal Boot Scratchless Mechanic's Belt and Cotton Crew Socks** are designed with technicians in mind. The belt is 1.5" wide and 4mm thick, and made of all leather with a dual hook belt clasp. The belt is available in black, sizes small (28-32), medium (32-36), large (36-40), XL (40-44) and XXL (44-48). The socks are made from ring-spun cotton and are available in black or white. The socks fit sizes 6-13. The belt and socks are made in the U.S.A.

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Exceptional Nitrile Glove with an Aggressive Tread Grip!

NEW!

Tread Grip



At **Atlantic Safety Products**, we take great pride in providing gloves that offer serious protection from your work environment while keeping your most important tools, your hands, in top condition for maximum productivity. Our **Red Lightning** gloves offer excellent barrier protection!

- Fully Textured Tread Grip for superior grip in both wet and dry conditions
- 6 mil thickness
- Not made from natural rubber latex to reduced acquired latex exposure allergy
- Industrial Grade
- Beaded cuff for easy donning

6

LATEX

SMALL	RL-S
MEDIUM	RL-M
LARGE	RL-L
X-LARGE	RL-XL
XX-LARGE [†]	RL-XXL

100 gloves/box, 10 boxes/case
[†]XXL 90 gloves/box

HAND PROTECTION HAPPENS HERE!

Contact us today for your FREE SAMPLES!

(800) 540-4397 or customerservice@atlanticsafetyproducts.com



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Caution: Components used in making these gloves may cause allergic reactions in some users. Follow your institution's policies for use.

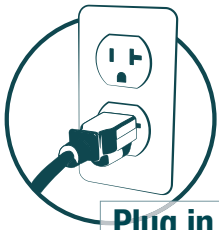
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Plug in the kit



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The demands on the Auto Repair Industry are continually changing and always challenging. For completing many electronic-related repairs and part replacements, learning what it takes to be successful in J2534 ECU programming can now be a thing of the past.

Rely on your technicians for diagnostics, repairs, and bay turn-around; let Drew Technologies do the programming for you!

Our RAP-Flash Kit provides everything needed for J2534 ECU programming. DrewTech's ASE-certified Tech Support does the programming for you and the service is **GUARANTEED**. Our **Pay-Per-Flash** includes configuration, setup and security functions, and in many cases, key programming.

Call or visit our website to register for your RAP kit today!



DREW TECHNOLOGIES

844.235.2671

J2534RAP.com/PTEN

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New Products

Designed to be an easy-to-use everyday carry knife

The **CRKT Outrage Pocket Knife**, available from Cornwell Quality Tools, is designed by custom knife-maker Ken Onion to be an easy-to-use everyday carry knife. This knife features a blue aluminum handle, a modified drop-point blade, an IKBS ball bearing pivot system and a locking liner to keep the blade lock-up secure.

Circle 45 on card, or enter at “e-inquiry” on VehicleServicePros.com



Removes broken exhaust manifold studs and bolts

The **ProMaxx Alan 200 Series ProKit** is engineered for the Dodge 5.7L Hemi V-8 engine to facilitate the removal of broken exhaust manifold studs and bolts. The tool helps eliminate accidental drilling into the coolant passages, and can support the removal of broken screw extractors, according to the company. The Alan series ProKit is made in the U.S.A. using American-made materials, and includes a limited lifetime warranty and free unlimited technical support.

Circle 46 on card, or enter at “e-inquiry” on VehicleServicePros.com



Grooved tire tread texturing

Atlantic Safety Products Red Lightning Gloves are designed for heavy duty applications. The gloves feature a hi-visibility red color with grooved tire tread texturing for no-slip gripping and streamlined grooves for proper liquid run-off.

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LAUNCH TECH USA & IDENTIFIX

FIND AND FIX FASTER.



Launch Tech USA is announcing a new service called Tech to Tech. For the first time, technicians using Launch Scan Tools in need of diagnostic help are no longer alone! Through a recent partnership with Identifix's award-winning Virtual Tech Hotline paid service, one of 45 certified experts can remote directly into your Launch Scan Tool, read your data, and help you perform special function tests—reducing both your diagnostic time AND your stress level. This is the ultimate “How to Fix a Vehicle” support, offered for Launch Tech Android scan tools customers.

www.launchtechusa.com
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That's pretty... what's that word again? Find out at www.thecoolboss.com.

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or visit www.thecoolboss.com

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This is my BendPak

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But this one's mine.***

*"Here at Kindig-it Design we specialize
in Bitchin' Rides and that takes killer
equipment, that's why we use BendPak"*

- Dave Kindig, Accomplished Designer
specialized in Hot Rod Customs, Owner of
Kindig-it Design and star of TV's "Bitchin' Rides"
www.kindigit.com

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BP BendPak.

For more information on BendPak's entire product line,
call 1-800-253-2363 or visit www.bendpak.com

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For aluminum and steel panels

The H&S Autoshot Dual Aluminum and Steel Dent Pull Gun, No. UNI-9700, is a hand-held gun with adjustable output power, an LED display and a 15' torch cable to an ETL certified 115V AC charging power supply with output status. The compact stud gun comes with collets for both steel and aluminum studs, two ground pin set-ups, weld-tip pulling arm and assorted pulling studs. The unit comes in a heavy duty ABS carrying case.

Circle 51 on card, or enter at "e-inquiry" on VehicleServicePros.com



Fully heat treated alloy steel

The VIM Tools Dual Drive 9-pc Metric Sockets, No. DDM400, are fully heat treated alloy steel with a bright chrome finish and a 6" magnetic Magrail base. The sockets have 1/4" sq. drive and 11mm or 13mm hex base drive. The set includes 6mm to 14mm sizes and has a limited lifetime warranty.

Circle 52 on card, or enter at "e-inquiry" on VehicleServicePros.com

Line of impact driver bits

The Bosch Impact Tough Impact Driver Bits deliver 10 times more life than standard impact bits, according to the company. The Impact Tough bits include an impact-rated line of screw driving bits, double-ended bits, nut setters, sockets and bit holders. All bits come with a silver, high-visibility sleeve and have laser markings to clearly identify each bit.

Circle 53 on card, or enter at "e-inquiry" on VehicleServicePros.com



Reinforced clutch mechanism for added durability

Matco Tools 1/2" Composite Pneumatic Impact Wrenches, Nos. MT2769G and MT2769O, are available in green or orange and feature 1,300 lb-ft of break-away torque. Backed by a two-year warranty, these wrenches have a one-hand push-button forward/reverse design and a variable speed throttle for improved control. They also offer a reinforced clutch mechanism for durability and ergonomic textured housing.

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- Features MoS with WS Nano Technology
- Increases Horsepower & Torque
- Reduces Engine Friction, Heat & Wear
- Repairs by Filling & Coating Rough and Worn Metal Surfaces
- Cleans & Prevents Sludge

The **RISLONE**
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MUSTANG
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Enter for your chance to win today!

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Circle 55 on card, or enter at "e-inquiry" on VehicleServicePros.com

New Products

Offers improved clearing DTCs

The AutoEnginuity Giotto Scan Tool Version 15.2 introduces more BMW-specific service functions for diesel, petrol engines and electric motors, Nissan/Infiniti camera calibration and freeze frame data (FFD), and a dozen new Chrysler/Dodge systems. The scan tool also offers improved clearing DTCs and improved DTC report creation.

Circle 56 on card, or enter at "e-inquiry" on VehicleServicePros.com



Colored adapters for identification

The Lisle Spill-Free Funnel, No. 24970, is a clear funnel that allows a visual check of the coolant from across the shop. The funnel comes with a lid to keep out contaminants and store caps and adapters. The funnel controls the proper amount of coolant entering the system and enables unattended filling. It includes a new cap for VW, Audi and Porsche overflow tanks with threaded caps and colored adapters for identification.

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Technology

Parking Sensors Are Designed To Help Eliminate Damage,



Our New Signal Detector Measures If They're Operating Properly.

Used with a PicoScope® automotive oscilloscope, quickly test the signal strength of ultrasonic parking sensors or identify potential obstructions from aftermarket accessories like tow bars or lights.

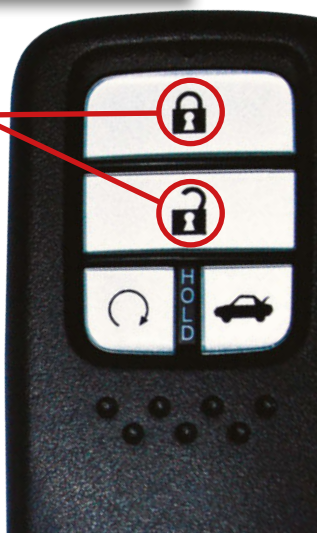


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But Our New Signal Detector Makes Key Antenna Errors Easier To Test.

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Designed to work on all over-the-counter filters

Powerbuilt's Oil Filter Pliers, No. 942068, are designed to work on all styles of over-the-counter filters. The pliers offer layered steel construction for improved strength and durability. The self-adjusting function allows for single-handed operation. These pliers are up to three times faster than standard pliers on the market, according to the company. The handles are padded dipped for grip and clamping power.

Circle 58 on card, or enter at "e-inquiry" on VehicleServicePros.com



Provides compact power

The Mac Tools 20V Max 1/4" Hex Drive BL-Spec Brushless Impact Driver Kit, No. MCF886M1D1, is 5.53" long and provides 250 lb-ft of breakaway torque. Three speed settings and a variable speed trigger allow the user to control the tool's speed. The tool features a three-point LED light to illuminate the work area, a glass-filled nylon housing and an ergonomic handle with textured anti-slip grip. This tool includes a limited three-year warranty.

Circle 60 on card, or enter at "e-inquiry" on VehicleServicePros.com

No need to remove steering rack

The Snap-on 3/8" Drive Steering Rack Socket for Toyota and Lexus vehicles, No. S6229, is designed for steering rack O-ring repairs. The S6229 allows technicians to reach the seal without having to remove the steering rack from the vehicle in specific Lexus and Toyota models. The S6229 can be used on Lexus RX330 and RX350 (2004-2009) and Toyota Highlander (2004-2007).



Locking shaft extends from 25" to 40"

The E-Z Red 1" Drive Extendable Monster Ratchet, No. MR1X, features an extendable locking shaft extending from 25" to 40". The knurled handle is designed to allow a firm grip, and the 15-degree drive head contains 24 teeth. The MR1X comes with a limited lifetime warranty, and meets or exceeds ANSI torque requirements. A replacement head kit is also available.

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The Best Air Ratchets in the market!

SP-1764 (1/4")
SP-1765 (3/8")
SUPER FAST MINI IMPACT RATCHET

500rpm/55ft-lbs.

IMPACT MECHANISM PATENTED

Single Dog Clutch

Reaction Free

For a SP-1765 Demo Video Scan the QR Code.

SP-7260 (1/4")
SP-7265 (3/8")
SP-7265W (3/8" Wobble Drive)
SEALED FLAT HEAD MINI RATCHET

360° Exhaust Sleeve

Reverse Lever
• One-handed operation.

Air Regulator

PATENTED Sealed Flat Ratchet Mechanism

Sealed Flat Head For Long Life

SP-7786 (3/8")
SP-7787 (1/2")
HEAVY-DUTY SEALED FLAT HEAD RATCHET

360° Exhaust Sleeve

Reverse Lever
• One-handed operation.

MADE IN JAPAN

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E-Mail: sales@spairusa.com

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Innovation 2017 AWARDS NOMINEES



Every year, the *PTEN* Innovation Awards feature the newest and most innovative products introduced to the automotive aftermarket. For 2017, the awards had a record year. *PTEN* received 154 entries spanning 28 different categories. Check out the second round of nominees throughout the next several pages. (If you missed the first set of nominees, check out the May issue.) For the full list of 2017 nominees with full product details, visit: VehicleServicePros.com/2017INominees.



MAHLE Aftermarket Inc. Service Solutions

TechPro Diagnostic Scan Tool

CATEGORY: Scan Tools

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



DENSO Products & Services Americas, Inc.

VehicleMRI

CATEGORY: Diagnostic Test Equipment

Circle 66 on card, or enter at "e-inquiry" on VehicleServicePros.com



Snap-on Tools

Rear Carrier Socket, No. CRC1

CATEGORY: Specialty Tools



Electronic Specialties

Small Engine Tach/Hour Meter, No. 329

CATEGORY:

Engine Service & Repair

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

Coast Products

FL75R Headlamp

CATEGORY: Lighting

Circle 63 on card, or enter at "e-inquiry" on VehicleServicePros.com



Clore Automotive

SOLAR BA427 Digital Battery and System Tester with Integrated Printer

CATEGORY: Battery Service Equipment

Circle 65 on card, or enter at "e-inquiry" on VehicleServicePros.com



Cornwell Quality Tools

12-pc Metric Ratcheting Combination Speed Wrench Set, No. CRWS12MSA

CATEGORY: Hand Tools

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



Mighty-Seven

1/2" Air Impact Wrench, No. NC-4255Q,

CATEGORY: Air Tools

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



CAS of New England

G-Scan 2 diagnostic tool

CATEGORY: Scan Tools

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



2017

INNOVATION AWARDS

NOMINEES



SP Air Corporation
3-Position Flex Head
Cut-Off Tool, No. SP-7231
CATEGORY: Air Tools
Circle 71 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Power Probe Tek
ECT3000 Intelligent
Short and Open Finder
CATEGORY: Electrical Systems
Circle 73 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Lock Technology
Lug Ripper II, No. LT1350
CATEGORY: Tire, Wheel Service
Circle 75 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Bar's Products
Bar's Leaks Professional Main
Seal Motor Oil Leak Repair,
No. MS-1
CATEGORY: Chemicals
Circle 76 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Rotary Lift
V-REX Vertical Rise
Platform Lift
CATEGORY: Lifts, Jacks & Stands
Circle 78 on card, or
enter at "e-inquiry" on
VehicleServicePros.com

SATA Spray Equipment
SATAjet 5000 B Phaser
Spray Gun
CATEGORY: Body Shop
Circle 72 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Milwaukee Tool
M18 FUEL 7" Variable
Speed Polisher
CATEGORY: Power Tools
Circle 74 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Snap-on Tools
EPIQ 84" 16-Drawer
Roll Cab,
No. KETN843A
CATEGORY: Tool Storage



Milwaukee Tool
M12 LED Metal Flashlight,
No. 2355-20
CATEGORY: Lighting
Circle 77 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



SKF
Lincoln 12-Volt Lithium-Ion
PowerLuber
CATEGORY: Oil & Lube
Circle 79 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



2017

INNOVATION AWARDS

NOMINEES



Flo-Dynamics
AirVac Handheld Shop Vac
CATEGORY:
Shop Equipment
Circle 80 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Drew Technologies
Remote Assisted
Programming (RAP) Kit
CATEGORY:
Diagnostic Test Equipment
Circle 82 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Cal-Van Tools
Universal Caliper Turn and
Push-Back Tool,
No. 727
CATEGORY: *Brake Service*
Circle 84 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



OTC
Tie Rod and Ball Joint
Remover, No. 7503HD
CATEGORY: *Specialty Tools*
Circle 86 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Mac Tools
Pro Eye Rechargeable Area
Light, No. SPL1500M
CATEGORY: *Lighting*
Circle 87 on card, or
enter at "e-inquiry" on
VehicleServicePros.com

WD-40 Company
Specialist Spray & Stay
Gel Lubricant
CATEGORY: *Oil & Lube*
Circle 81 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Noregon Systems
TripVision
CATEGORY:
Heavy Duty Diagnostics
Circle 83 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Bartec USA
Revive Turbo Cleaner
CATEGORY: *Chemicals*
Circle 85 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Snap-on Tools
Twin Torch
Synergic Pulse
MIG Welder, No. MIG225i
CATEGORY: *Welding*



Mueller-Kueps
Inner Rim Cleaner,
No. 433 507
CATEGORY:
Tire, Wheel Service
Circle 88 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



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PTEN

Professional Tool & Equipment News
The Independent Tool Authority

Editorial Excellence

PTEN receives editorial and design awards

PTEN received recognition for the 2017 Azbee Awards of Excellence. The Azbee Awards are highly competitive and celebrate the highest quality writing and design in business-to-business, trade, association and professional publications.

A | S | B | P | E

Fostering B2B editorial excellence

PTEN, Fleet Maintenance & Professional Distributor



Print » Special Supplement » Upper Midwest

PTEN



Print » Visual Storytelling » Upper Midwest

2017 INNOVATION AWARDS NOMINEES



SP Tools
Diesel Exhaust Socket Set
for NOx and Soot Sensors,
No. 15500
CATEGORY: Specialty Tools
Circle 89 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



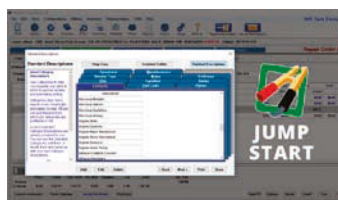
SABER
250 Lumen COB LED Motion
Activated Headlamp,
No. ATD-80250
CATEGORY: Lighting
Circle 91 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



OEM Tools
3-in-1 LED Flashlight,
Slim Light and UV
Inspection Light,
No. 24607
CATEGORY: Lighting
Circle 93 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Snap-on Tools
Magnetic Parts
Disassembly Trays,
No. KADM21X
CATEGORY: Tool Accessories



Bolt On Technology
Jump Start
CATEGORY: Computers & Software
Circle 96 on card, or
enter at "e-inquiry" on
VehicleServicePros.com

Snap-on Equipment

Hofmann Monty 8100S
Tire Changer
CATEGORY: Tire, Wheel Service
Circle 90 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



OTC

3211 OBD I & OBD II
Scan Tool
CATEGORY: Scan Tools
Circle 92 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Robinair

34988NI Premium A/C
Recovery Machine
CATEGORY: Air Conditioning
Circle 94 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Coast Products

Polysteel 600R
CATEGORY: Lighting
Circle 95 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Matco Tools

MAXTPMS Activation/Program
Tool, No. MDMAXTPMS
CATEGORY: Tire, Wheel Service
Circle 97 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



2017

INNOVATION AWARDS

NOMINEES



Lisle Corporation
Quick Change Terminal
Tool Set, No. 71750
CATEGORY:
Electrical Systems
Circle 98 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Monster
XXL 3/8" Drive Impact
Swivel Socket Sets
CATEGORY:
Tool Accessories
Circle 100 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Ernst Manufacturing
Bit Boss Universal Bit
Organizer, No. 5710
CATEGORY: *Tool Storage*
Circle 102 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Tech-Life
BeatBlock Twins
CATEGORY: *Personal Gear*
Circle 103 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Mac Tools
MDT 10
CATEGORY: *Scan Tools*
Circle 105 on card, or
enter at "e-inquiry" on
VehicleServicePros.com

Maxxeon
WorkStar 420
Inspector Maxx
CATEGORY: *Lighting*
Circle 99 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Mac Tools
Heavy Duty Digital
Multimeter, No. EM823
CATEGORY:
Electrical Systems
Circle 101 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Snap-on Tools
Oil Filter Housing
Flip Socket,
No. OFS2432
CATEGORY: *Oil & Lube*



PBT USA
QuickFlow
Drill Pump Kit, No. 71196
CATEGORY: *Fluid Exchange*
Circle 104 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Injectronic USA
CJ4-R Diagnostic System
CATEGORY:
Diagnostic Test Equipment
Circle 106 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



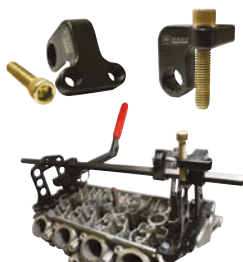
2017

INNOVATION AWARDS

NOMINEES



Bee Line Company
7800 Auto-Lock Heavy Duty
Floor Jack
CATEGORY: Lifts, Jacks & Stands
Circle 107 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



SP Tools
Valve Spring Lock Down Tool,
No. 91400B-LDT
CATEGORY:
Engine Service & Repair
Circle 109 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Thexton
VW/Audi Lock Carrier
Tool Set, No. 837
CATEGORY:
Engine Service & Repair
Circle 110 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Snap-on Tools
Multi-Probe Ultra,
No. EECT900
CATEGORY:
Electrical Systems



Matco Tools
Parking Brake Cable Coupler
Removal Tool, No. PBP1050
CATEGORY:
Brake Service
Circle 113 on card, or
enter at "e-inquiry" on
VehicleServicePros.com

Launch Tech

X-431 Heavy Duty Truck
Add-On Module
CATEGORY:
Heavy Duty Diagnostics
Circle 108 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Snap-on Tools

Rechargeable Flood Light,
No. ECFL00DRC
CATEGORY: Lighting



Boss Products

RapidFix UV Fiber Patch
CATEGORY: Chemicals
Circle 111 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



ProMAXX Tool

Rocky II ProKit
CATEGORY:
Engine Service & Repair
Circle 112 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



Induction Innovations

Inductor Lite
CATEGORY: Body Shop
Circle 114 on card, or
enter at "e-inquiry" on
VehicleServicePros.com



2017 INNOVATION AWARDS NOMINEES



Bartec USA
Quick Service Tool,
No. QST300
CATEGORY:
Diagnostic Test Equipment
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Machine, No. EEAC33
CATEGORY:
Air Conditioning Service



CRC Industries
GDI IVD Intake Valve &
Turbo Cleaner
CATEGORY: Chemicals
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Makita USA
18V LXT Sub-Compact
Brushless Combo Kit,
No. CX200RB
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Thexton
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Diagnostic Test Equipment
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OEM Tools

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Bearing Remover and
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Snap-on Tools

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Swivel Impact
Socket Set, No. 207RIPFM
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AutoEnginuity

Giotto AS (Application Server)
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CATEGORY: Power Tools



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INNOVATION AWARDS

NOMINEES



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Bartec USA

Tech200Pro

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NOMINEES



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Battery Service Equipment
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Diagnosing obscure EVAP issues

Steps for how to complete a fault code analysis during a fuel evaporative system diagnosis.

By Barry Hoyland, Contributing Editor

Evaporative system (EVAP) issues are arguably some of the most common, and quite often, some of the more difficult problems to diagnose.

There are really two main topics of fuel evaporative system diagnosis. The first, and more common, is fault code analysis. We'll review how to diagnose a fault code analysis in this Tool Briefing.

(The second, and one that at times can be extremely frustrating, is getting the EVAP monitor to complete.)

STARTING THE FAULT CODE DIAGNOSIS

I have spoken with several experts in the EVAP tool industry and they agree the number-one call into their tool support hotlines is that technicians cannot find a leak in the EVAP system, but there is a code that indicates a leak is present.

When it comes to fault code diagnosis on OBD-II vehicles, the first step is one that is often overlooked or dismissed as unnecessary. This simple step is to verify there is actually a problem with the system, as the presence of the code suggests.

Well, that sounds both frustrating and somewhat familiar, but remember, our first responsibility as technicians is to duplicate the issue.

Let's talk about the likely cause of a leak code where no leak is currently detected. In many cases, the vehicle may have been fueled and the driver did not tighten the fuel cap completely. Most likely, a leak code will be set. Typically, before the vehicle reaches your shop for diagnosis, the cap is either tightened, or the vehicle has been fueled again and the cap is installed correctly once the "check

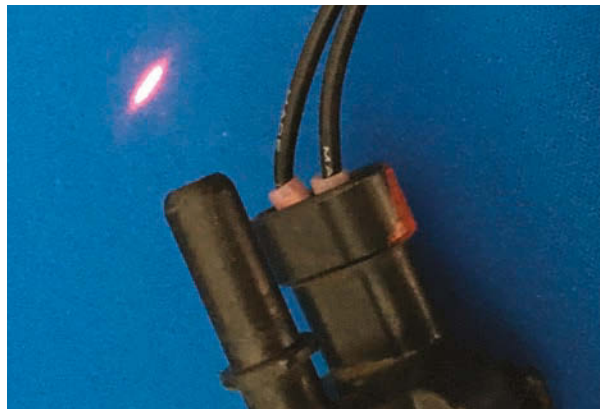
light" has been triggered.

In either case, the leak has been repaired and depending on how, and how long, the vehicle has been driven, the light may either still be on or has turned off, but the vehicle will still have a history code.

1 RETRIEVE FAULT CODES

The diagnosis of the vehicle starts with obtaining any codes that are present — either current, history or pending. Along with any codes, your scan tool has the ability to get quite a bit of valuable information to use in your diagnosis. Collecting the freeze frame information will provide you with the exact details the vehicle was operating under when the code set. This is useful during your diagnostic test process and after you repair the system. If you know the exact conditions that were present when the code set, you are able to operate the vehicle in the same manner to verify the code does not return after the repair.

Additional information can be found in Mode \$06. You need to remember that Mode \$06 is a function of generic OBD-II and depending on your scan tool, you may need to access it from the generic mode, not vehicle-specific enhanced mode of your tool. Many technicians see no real value in Mode \$06 other than to find which cylinder is misfiring on some



▲ One trick that may work is to dim the lights in the shop and use a laser pointer along the EVAP lines, which will highlight the smoke trail. Here, the laser pointer highlights the leak from an EVAP solenoid.

vehicles. Once you understand what Mode \$06 is and does, you will see the value in adding it as part of your normal diagnostic process.

The monitor status of the non-continuous monitors reported in Mode \$06 are from the last time the monitor was run, or completed. An incomplete monitor means the conditions were present to start the process, but something occurred to stop it prior to being fully completed.

Monitors that run the required number of successful pass tests will turn the "check engine" light off and eventually erase the fault code.

On our Saturn, the monitor was complete and had failed the small leak portion of the test. But remember, those results were from the last time the monitor had completed.

2 OBTAIN VEHICLE-SPECIFIC SYSTEM INFORMATION

A key component of information gathering, especially in reference to EVAP →



VEHICLES AFFECTED:
2006 Saturn Vue, 2.2L

ISSUE:
Check engine light on with a P0442 fault code

TOOLS USED: SCAN TOOL

- Vehicle repair information
- Diagnostic smoke machine
- DMM
- Power Probe

issues, is to ask the customer if they have either tightened the fuel cap or filled the tank since the light illuminated. This customer said they had done neither.

The next step is to retrieve any codes. After obtaining codes, many technicians will start by following the diagnostic fault tree steps to diagnose the code. Other technicians will rely on their years of experience by testing the system to determine where the leak is, or try tightening the cap to find out if it is loose.

Quite frankly, neither method is exactly right, or wrong, and will probably not work on every vehicle, nor every code. The tried and true way to determine the

cause of any failure is to use your repair information source to find out how the system works specific to that vehicle and to determine what conditions will cause the code you are diagnosing to set.

In the case of our Saturn, we used Mitchell 1 ProDemand to first read the system description, which explains how the system operates and what the diagnostic monitor determines to be a fault. Next, we read the explanation of the fault code itself and the conditions for setting the DTC.

Having knowledge of the system, along with a complete understanding of how the system determines if there is a fault, can help guide you through a complete series of tests to find the root cause of the issue.

3 DUPLICATE THE CONCERN

When duplicating the concern, you can jump right in by using your

smoke tester to check for leaks. In the best case this is premature; in the worst case there is not a current leak and this is a complete waste of time. Armed with the details of what conditions need to be present to set the DTC, we can see if there are any conditions currently existing that will prohibit the monitor from running.

We found by researching the system, the fuel level needs to be between 15 percent to 85 percent, and the coolant and intake air (ambient, or outside air) temperatures need to be between 39 and 86 degrees F at engine start-up for the monitor to run. The day we tested this vehicle there was an overnight low of 91 degrees F, which means one of the conditions for running the monitor was not met, and therefore, the vehicle cannot run the monitor to test the system to determine whether it will pass or fail. What this tells us is the fail results indicated in Mode \$06 may not reflect the current condition of this vehicle.

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If the EVAP system monitor had run and passed, we could assume either the system is now functioning correctly, or there is an intermittent problem. Since it had not run, we cannot be certain there is a leak in the system.

4 TEST THE SYSTEM

Because there was not enough information in Mode \$06 to verify the presence of a current leak, the next step is to use your scan tool's bi-directional controls to test the system. On this particular vehicle and with our scan tool, we have the ability to perform a "service bay test," which performs a complete test of the EVAP system to determine if it will pass or fail. Our experience suggests we should perform this test at least three times to catch any intermittent issues. On this vehicle, it failed the second test, confirming there was an intermittent leak.

In order to fully test the system, use your scan tool to monitor the oxygen sensors. When the purge valve opens, there will be an increase in voltage on the upstream oxygen sensor(s). Depending on the level of fuel in the tank and whether it has a return or returnless type of fuel delivery system, the voltage increase can be significant, or relatively small. This is due to the amount of vapor stored in the canister and then purged into the intake changes with varying conditions.

After verifying there is flow and that the flow stops when you de-energize the purge valve, you can move on to using your smoke machine to test the system.

On many vehicles, you can install your smoke tester directly to the service port located on an EVAP hose under the hood. The potential issue with this is you will not be able to determine if the service port is the source of the leak. To eliminate this possibility, insert your smoke tester at a different location in the system.

Once the smoke tester is installed you may need to calibrate the flow meter by following the tool manufacturer's instructions. Once that is done, apply smoke to the system and note the ball in the flow meter. If the ball is moving from its "no flow" position, there is a leak. The flow

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meter will provide an indication of how large the leak is.

If the flow meter is indicating a leak, start looking for a smoke trail. This sounds easy, and in many cases, it is. Sometimes though, the leak may be located in hard-to-see areas like on the top of the fuel tank or inside body panels. Another thing that may make it difficult to locate a leak is most shops are brightly lit, and you may not easily see a smoke trail, especially if it is a small leak.

Many technicians try to increase the amount of pressure on the smoke tester, which may make it difficult to pinpoint or even seal the leak. One trick that may work is to dim the lights in the shop and use a laser pointer along the EVAP lines, which will highlight the smoke trail.

When we connected the smoke tester to the Saturn there was no flow on the flow meter, indicating there was currently not a leak in the system. We could have stopped there because we were not able to duplicate the issue, but in our experience, there are some things that can cause intermittent leaks and we wanted to test those items.

Two fairly common issues are either the vent or purge solenoids intermittently sticking. Remember, vent solenoids are normally open and purge solenoids are normally closed, so you will need to apply power to a vent solenoid to test it for a leak, and remove power to test a purge solenoid.

It is a good idea to use your DMM at the connectors of both the vent and purge to check for system voltage when the solenoids are energized. Also compare the resistance of the solenoids to the specifications obtained from your repair source. We tested both solenoids and found readings within the listed specifications.

The best way to catch an intermittent solenoid leak is to connect your smoke tester directly to the solenoid while you use either your scan tool or a Power Probe tool to energize and de-energize the solenoid as you look for smoke leaking from the outlet. Another way to test these solenoids is to apply smoke and see if smoke flows when you tap lightly on it while it is in its closed position.

We removed both solenoids from the Saturn and tested them on the bench. We found no issues with the vent solenoid, but the purge solenoid intermittently leaked when we tapped on it. We replaced the solenoid, then performed the service bay test on the system four times, all of which were successful.

This vehicle's issue reaffirmed that performing a leak check on every vehicle that comes in with an EVAP code is not necessary. It also confirmed that following a good diagnostic strategy, starting with making sure there is a problem with the system and verifying you have corrected it, is the best way to handle any issue, especially intermittent ones. **PTEN**

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Kano Laboratories Kroil and AeroKroil

The reviewer describes these penetrating lubricants as “substantially effective” at dealing with sticking, rusted parts.

by Mike Schmidt, Contributing Editor

PRODUCT DESCRIPTION:

Kano Laboratories AeroKroil penetrating lubricant loosens frozen metal parts — including rusted nuts and bolts — by producing a molecular affinity to metal, which gives Kroil the ability to propel itself into millionth inch spaces. Since not all frozen parts are caused by corrosion, additional research has provided for the inclusion of other molecular properties, assuring that the final molecular architecture of this lubricant would also be capable of loosening frozen metal parts when other factors such as compression are more responsible for the problem. These properties enable Kroil to break the bonds of rust or loosen over-torqued parts to free frozen metal parts.

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Dealing with rusty, corroded or frozen metal vehicle parts can be a frustrating and unwelcome task for technicians. As a result, finding a product that can loosen them and make them easier to work with can help save both valuable time and alleviate unwanted frustration.

Eric Moore, co-owner of Columbus, Ohio-based DeMary Truck, found a pair of offerings that he says are more than up for the task of addressing troublesome metal parts in the Kano Laboratories Kroil and AeroKroil (aerosol Kroil) lubricants.

“Being in the Rust Belt, penetrant is something we use lots of, and anything that works greater than another product gets bumped to the front of the line immediately,” Moore says. “The Kano Labs Kroil and AeroKroil were substantially effective at getting rusty parts moving quicker. In some cases, they did so almost immediately, all while using less product.”

Moore employed the Kroil and AeroKroil products for just about every type of job that required the loosening of sticking, rusted

parts — including using them to lubricate turbo linkages and pinch bolts for kingpins.

“In one specific instance, we had a seized injector in the cylinder head of a Mitsubishi Fuso FE truck,” he explains. “We tried using [other products], and it still wouldn’t budge. The tech decided to pour some Kroil in the tube and let it sit overnight. The next morning, the injector came right loose.”

AeroKroil proved quite effective at removing plugs from a 2000 Ford F150 with a 5.4L engine, Moore says.

“Once he broke loose the plugs about a half-turn each, he sprayed AeroKroil into

the bores and let it sit for about 20 minutes,” Moore says. “It not only lubricated the plugs, but it softened up the carbon on the plugs’ tips that causes them to seize or break.”

In addition to being effective, the Kroil and AeroKroil products were easy to use, according to Moore.

The Kroil offering features a cone adapter to funnel the product where it’s needed, while the AeroKroil penetrant lubricant comes in a can with a straw for use in applications where pinpoint accuracy is necessary.

All the technicians at DeMary Truck were required to do was open the can or remove the cap (on the AeroKroil) and, on occasion, prepare the area where the products were to be used. More often than not, however, Moore says they directly applied the lubricant to the troublesome parts.

All in all, Moore says the fact that they were so effective made the Kano Laboratories Kroil and AeroKroil penetrating lubricants popular among the technicians in his shop.

“We loved the stuff,” he adds. **PTEN**



Makita

18V LXT Sub-Compact Brushless Combo Kit

The reviewer appreciated that these tools were powerful, lightweight and easy to use.

by Stefanie Von Rueden, Assistant Editor

PRODUCT DESCRIPTION:

The Makita 18V LXT Sub-Compact Brushless Combo Kit, No. CX200RB, combines 12V handling with 18V performance, run-time and compatibility, according to the company. An 18V battery from any Makita LXT tool will power the 18V Sub-Compact driver-drill and impact driver. The kit includes an ultra-compact two-speed brushless driver-drill that weighs 2.8 lbs, and a variable speed brushless impact driver with two speed settings that weighs 2.6 lbs. The impact driver features Assist Mode (A-Mode), which helps eliminate screw cam-out and cross threading by driving at low speed until tightening begins.



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Lou Fort, lead technician at K.A.R.S. Inc. in Huntingburg, Ind., has been using cordless drills and drivers since they first came on the market. He says that the Makita 18V LXT Sub-Compact Brushless Combo Kit was "not only easy, but a pleasure to use."

Fort says that this kit required minimal setup. Users need to adjust the drill's clutch head to one of 20 preset torque settings, or to its locked drill setting, before operating. All batteries should be completely charged before the first use, and users can choose from whichever 'charge complete' audible indicator they would like the charger to use.

The kit came with a case for storing and transporting the tools and charger, and a detachable shoulder strap. Fort noted that the case has two removable dividers, and the lid has an elastic strap to hold bits and a pouch for additional storage.

"The [impact driver] has been quite useful in all of my daily work," Fort says. "It has been used in everything from dash work, replacing heater cores, to the removal of differential covers and axles from full floating assemblies."

Fort adds he appreciates the three power settings on the impact driver, and that reverse speed and power remain at maximum regardless of the selected power settings.

Fort liked that the drill includes preset torque settings, two speed settings and a keyless chuck. He used the drill to complete an exhaust manifold replacement, and noted that the drill's small size and weight made the job easier.

"Both the drill and the impact driver are so light one hardly knows they're holding it," Fort says. "Both tools also have a powerful LED light that can be turned on or off. The light stays on for a period of about 10 seconds after the trigger has been released."

As an improvement, Fort suggests that adjusting the lamp's angle on the drill might make the drill's light more useful by allowing it to project its focal point beyond the end of the drill's chuck. As it is configured, he says, the light is useful to get an idea of the work area, but not very useful during use.

"I have enjoyed a significant amount of time savings with the impact driver," Fort concludes. "The drill has been a pleasant tool to use." **P TEN**



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Category Spotlight



REMOTELY PROGRAM AND DIAGNOSE

The **BlueLink Remote Programming Kit** allows users to remotely program and diagnose. The company's partners communicate directly with cars in the shop via the internet. This kit helps technicians and shop owners avoid hidden costs of flat-bedding and other wasted time maintaining tools and equipment that go out of date, the company says. This kit can be used with the company's 12' Drew Technologies J2534 device and more. All purchases include the 722.9 VGSNAG Software for Mercedes Benz transmission diagnostics and the CAN Analyzer, which finds Mercedes CAN-B units causing erroneous bus wake and battery draw.

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COMPATIBLE WITH J2534-1 AND J2534- 2 REPROGRAMMING STANDARDS

The **Launch J-Box 2 pass-thru device** is compatible with both SAE J2534-1 and J2534-2 reprogramming standards in addition to GM's GDS2 and Tech 2 WIN. The high-speed (480Mbps) USB connection, secured by two fasteners, guarantees a proper download every time, according to the company. The J-Box 2 offers future compatibility for all makes and models, a BMW 20-pin adapter, LED status indicators, an aluminum casing and more. The J-Box 2 includes free J2534 call-in support and a two-year warranty.

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J2534 REPROGRAMMING, WITH NO EQUIPMENT COST

The Drew Technologies **Remote Assisted Programming (RAP) Kit** provides shop technicians the ability to complete J2534 ECU reprogramming updates and electronically controlled parts replacements, with no start-up or equipment costs, and no specialized technician training required. This hardware kit consists of a J2534 device, PC, internet connection, battery maintainer, flash software for each supported automaker, and a remote interface to Drew Tech's experts. Flash success is guaranteed, says the company. The RAP kit is available as a rental unit and is a pay-per-use service. As part of the agreement, shops must use the kit at least two times per month, or a small rental fee will be charged. The self-contained kit provides everything needed to program an ECU, including the remote expert.

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To watch a video demo of this product, go to:
VehicleServicePros.com/20856902



CONNECTS PC TO ALL J2534 VEHICLES

The **DG Technologies d-briDGe PRO** is a diagnostics and reprogramming tool that securely connects PCs to all J2534 vehicles. The d-briDGe PRO is a single tool that is compatible with many OEM software subscriptions and also includes OBD-II DG diagnostic software. This tool is made in the U.S.A. and includes free technical support.

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REPROGRAMMING TOOLS

FOR J2534 PROGRAMMING AND ACCESS TO OEM LEVEL DIAGNOSTICS

The **Bosch Diagnostics Mastertech VCI OEM Hardware Kit** provides validated J2534 programming that covers GM, Ford, Chrysler, Honda, Nissan, Mazda, Mitsubishi, Saab, BMW, and more to come in the future. This tool provides authentic OEM dealer level diagnostics compatible with BMW ISTA, Saab GDS 2, GM Tech2Win and GM GDS2. This OEM dealer level diagnostic software is purchased separately from vehicle OEM websites. Optional aftermarket diagnostic software for domestic, Asian and European vehicle coverage is also available for purchase. Users can operate the Mastertech VCI with a Windows PC through either 802.11 wireless, Ethernet or USB connection. The tool is fully OBD-II compliant, including Controller Area Network (CAN) protocols, and includes USB WiFi adapter that provides internet connectivity during vehicle diagnostics.



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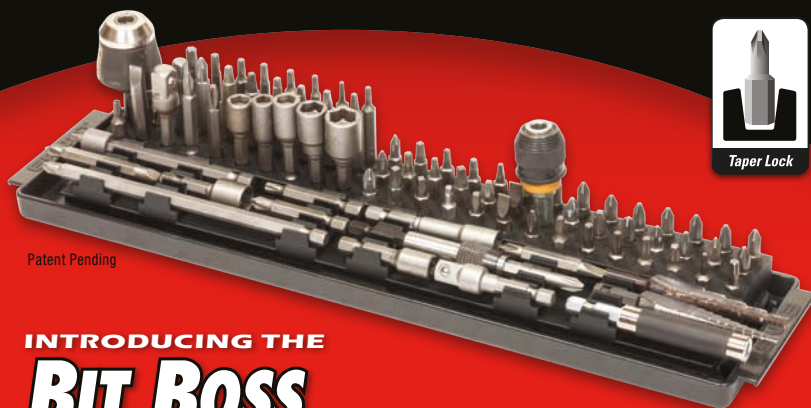
FULL COVERAGE FOR ASIAN AND DOMESTIC VEHICLES

The **Ottotest Diagnostics iFlash scan tool and J-2534 programmer** (optional) in one VCI, offers full coverage for Asian and domestic vehicles. This scan tool includes comprehensive bi-directional controls, Mode 6 functionality, up to eight multi-trace graphing functionality, snapshot, units conversion, a simple-to-use interface and in-tool feedback that is answered within 24 hours, according to the company. Live customer support is open during EST business hours and software updates can be purchased for one year or on a pay-as-you-go program.



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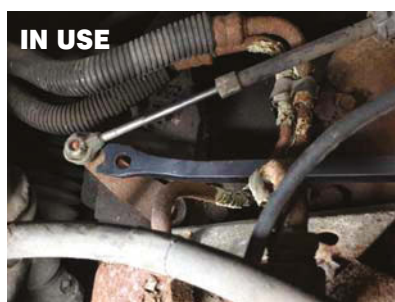
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AUTOMATIC FIRMWARE UPDATES VIA USB

The **Snap-on Pass Thru Pro III**, No. EETA113C, offers automatic access to an updated reprogramming toolbox, now supporting Windows 8. The Pass Thru Pro III includes protocols for fault tolerant CAN, CAN lines and access to additional late-model vehicle networks. The device allows automatic firmware updates via USB as a vehicle connection is no longer required for firmware updates. It allows technicians to update software/firmware in the vehicle's electronic control unit with software directly from the OEMs, fixing software-controlled drivability and emission issues. The device also can program emission-related ECUs on any J2534-compliant vehicle 2004 to newer, and other J2534 compliant controllers.

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OFFERS CONTROLLED BATTERY CHARGING

The **Midtronics Controlled Charger**, No. MCC-070, offers controlled charging to service different battery types (regular lead-acid, AGM, EFB, Li-ion ready), app-driven charging routines and wireless connectivity to support automated software updates. The MCC-070 features reflash support, quick fill, and full charging capabilities, on-demand current and constant clean voltage to the vehicle battery for the extended period of time required to update the vehicle computer software, selectable voltage levels from 11 to 16 VDC (.1 VDC), pre-programmed applications and a streamlined user interface. The charger has full integration with Midtronics equipment and data system in an advanced battery management solution; also functional as a standalone product.

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PROVIDES SUPPLY OF DC POWER FOR VEHICLE PROGRAMMING

The **OTC 70-Amp Power Supply/Car Battery Charger**, No. 700A, for flash reprogramming, is a device that connects to the vehicle's battery and outputs a designated supply of clean DC power. The 700A features a constant voltage output selectable from 13V to 14.8V DC, with variable charge rates of 4/20/70 amps. With fully automatic operation for 12V batteries, this tool works with regular automotive, deep-cycle, AGM, and gel cell battery types. The unit provides digital volts and amps display and has a manual mode with digital timer. The 700A comes with an extra-long 9' power line cord with 20A plug, extended reach heavy gauge 9' output cables and heavy duty clamps with replaceable jaws.

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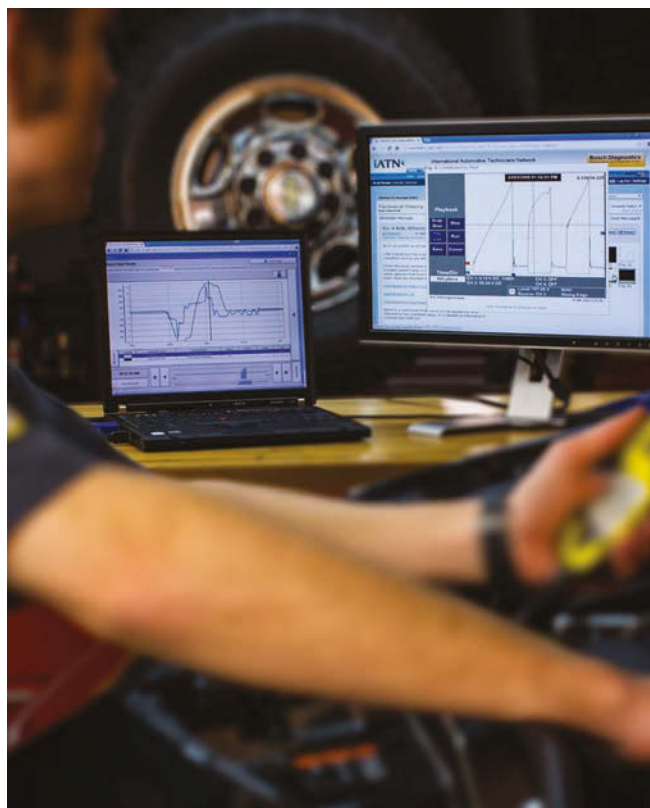
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TECH TIP

CONSIDER INTELLIGENT BATTERY CHARGERS WITH A POWER SUPPLY FOR FASTER ROI

When deciding which battery charger or battery service equipment to use or purchase, consider a piece of equipment that provides multiple features.

The Associated Intellamatic line includes products such as the Model ESS6008MSK, which provides the technician a single piece of equipment with four different tools built right in. The ESS6008MSK is an intelligent charger with the ability to charge all types of batteries, including AGM and gel cell batteries, with patented microprocessor controlled diagnostics.



The ESS6008MSK's built-in integrated Power Supply provides 70A of continuous power at 13.7V. This level of sustained power is a requirement for extended key-on, engine-off diagnostics including vehicle re-flashing at the power required for reflashing procedures. In addition, features like Memory Saver Mode with a 12' fused DC adapter, and OBD-II connector for maintaining electrical power and presets during a battery removal or replacement procedure.

To read the full article, visit:

VEHICLESERVICEPROS.COM/10898619

Information provided by:
Associated Equipment

TOOL REVIEW

DREW TECHNOLOGIES REMOTE ASSISTED PROGRAMMING (RAP) KIT

The value of being able to complete J2534 ECU reprogramming updates and electronically-controlled parts replacement in and around his facility without additional technician training made this kit a must-have for shop owner Erick Bock. To read the full article, visit:

VEHICLESERVICEPROS.COM/20851676



ARTICLE

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? To read the full article, visit: VEHICLESERVICEPROS.COM/12242117

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Big-Time Boxes

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

All work and some play

A family tool shop loyal to Snap-on features a 124" setup

by Vesna Brajkovic, Assistant Editor

For Alex Gutierrez, co-owner of Sylvers Automotive, it all starts with family. Every day he works out of his 124" Snap-on Tools toolbox setup next to his father and shop co-owner, Sylvers Gutierrez, and occasionally his five-year-old nephew, Christian Gutierrez.

The Gutierrez family is loyal to Snap-on tools, equipment and storage. Even Christian "works" out of a Snap-on branded play workstation, complete with plastic Snap-on tool set, while he's in the shop.

But by far the most notable tool setup in this family operation is Alex Gutierrez's bright yellow, 8' tall and more than 10' wide Snap-on box. It includes a matching hutch, two side lockers, top cabinet and tool cart all purchased from Mike Berry, Sylvers Automotive's long-time Snap-on tool dealer.

The 18 drawers in the main box, a Snap-on Classic Series, are organized by tool type, while the lockers hold specialty tools and bulkier items that come in their own blow-molded tool cases.

"If I couldn't see I could still reach my hand in and know exactly where everything's at," Alex Gutierrez says of his 25" deep, organized drawers.

For further efficiency, Alex added a power cord to one of the lockers that is capable of charging six batteries at once. This helps save time, and ensures there is always an extra battery available for some of his most used cordless tools.

The bold yellow color choice was a no-brainer for Alex Gutierrez when he first



OWNER:

Alex Gutierrez

Sylvers Automotive
El Paso, Texas

▲ Co-owners of Sylvers Automotive in El Paso, Texas, Sylvers (left) and Alex (right) Gutierrez, pose with grandson and nephew Christian Gutierrez on a Snap-on Tools tool cart.



▲ Christian Gutierrez, 5, "works" alongside his grandfather and uncle, co-owners of Sylvers Automotive, in a Snap-on branded play workstation he has at the shop.

purchased the main box in 2009, as this hue of yellow has become a kind of trend in his life. Alex's first car was a yellow Acura, a rare edition for that model, and now, he has a Ford F-Series in the same color.

In the hutch on top of the main box, Alex Gutierrez further accents the box with vintage toy model vehicles and a Snap-on branded light-up clock. Over the box is an advertising banner featuring his same Ford F-Series truck.

Alex Gutierrez also works out of a



▲ This bold yellow 124" Snap-on tool setup features a Snap-on Classic Series main box, two side lockers and a hutch.

matching Snap-on tool cart, which was an upgrade from a smaller cart he is currently transitioning out of.

At the end of the day, beyond the lavish tool set up, Sylvers Automotive in El Paso, Texas, is a family-focused operation. Alex learned the trade from his father, and now they're passing on the trade to Christian, who, as Alex says, is already "one of the guys" at the shop. **PTEN**

Want to see more photos of Gutierrez's box?
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