

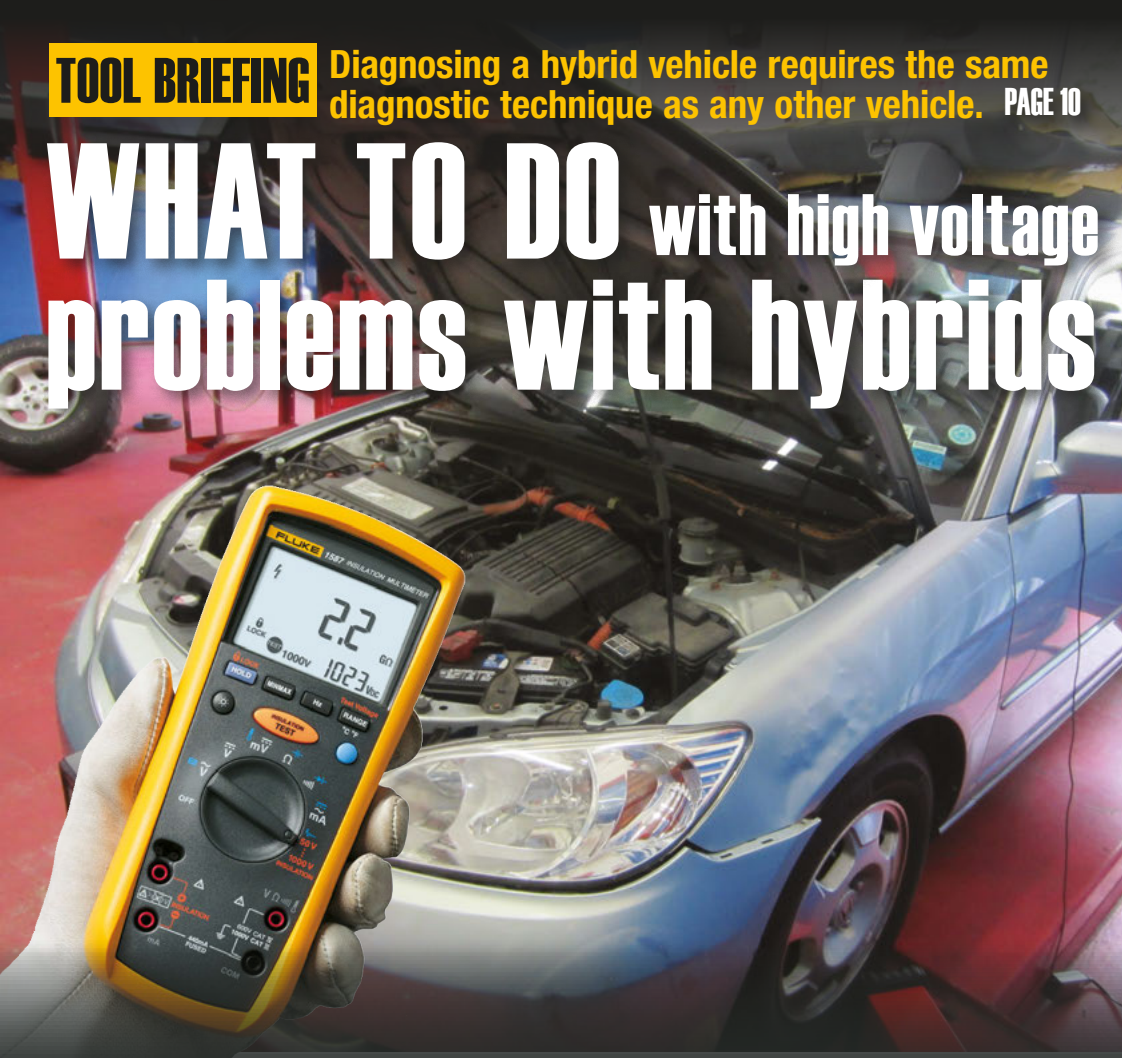
THE INDEPENDENT TOOL AUTHORITY

Professional **TOOL & EQUIPMENT** NEWS

TOOL BRIEFING

Diagnosing a hybrid vehicle requires the same diagnostic technique as any other vehicle. [PAGE 10](#)

WHAT TO DO with high voltage problems with hybrids



Close CV boot clamps



Diagnose more vehicles

TOOLS of the MONTH

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Extend capabilities of a digital multimeter



Drill holes more easily



Diagnose with Chrysler factory software

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Exclusive Online Tech Tips: This month online, read tips on operating and owning RRR A/C machines by visiting www.VehicleServicePros.com/ask-the-expert

Tech Routing List

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COVER STORY

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What to do with high-voltage problems with hybrids

Diagnosing a hybrid vehicle requires the same diagnostic technique as any other vehicle.

COVER TOOLS

30 Tools of the Month

New tools from Mayhew Tools, AutoEnginuity, Lisle Corp., Blair and Controller Technologies Corp.

FEATURES

16 Top 10 Tools

Chad's Automotive in Titusville, Fla. services all types of vehicles, but specializes in race cars. Owner Chad Nelson builds race cars as a hobby. He keeps up on new repair tools and is known locally as an expert on diagnostic tools.



18 2013 Innovation Awards

Check out the second round of nominees for PTEN's annual Innovation Awards.

56 Tool Reviews

Technicians give their takes on tools. This month:

- PBT Stretch Fit Belt Kit
- NAPA 1/2" drive air impact wrench
- Matco Tools 3/8" Ratchet
- Matco Tools 12V Cordless Infinium 3/8" Ratchet Set



Published by
Cygnus Business Media
 P.O. Box 803, 1233 Janesville Ave.
 Fort Atkinson, WI 53538-0803
 920-563-6388 • 800-547-7377
 Fax: 920-563-1699

GROUP PUBLISHER Larry M. Greenberger
 LMG@pten.com

PUBLISHER Sarah Shelstrom
 sarah@pten.com

EDITOR Elliot Maras
 800-547-7377 x1693 Fax: 920-563-1699
 elliot@pten.com

MANAGING EDITOR - Digital/Print,
Vehicle Repair Group Erica Schulz
 800-547-7377 x1630 Fax: 920-563-1699
 erica@pten.com

ASSISTANT EDITOR Craig Truglia
 800-547-7377 x6154 Fax: 920-563-1699
 craig@pten.com

MEDIA PRODUCTION REP Wes Gray
 800-547-7377 x1337 wes@pten.com

ART DIRECTOR Meredith Burger

FOUNDER Rudy Wolf

LIST RENTAL REP Elizabeth Jackson
 847-492-1350 x18 ejackson@meritdirect.com

AUDIENCE DEVELOPMENT MANAGER Terri Pettit
SALES SERVICE REP Valerie Schmitt

CYGNUS BUSINESS MEDIA

John French – CEO
 Paul Bonaiuto – CFO
 Julie Nachtigal – VP, Audience Development
 Eric Kammerzelt – VP, Technology
 Ed Wood – VP Human Resources

CYGNUS PUBLISHING

Gloria Cosby – EVP
 Curt Pordes – VP, Production Operations
 Gerry Whitty – VP, Marketing

For reprints and licensing please contact Nick Iademarco at Wright's Media 877-652-5295 ext. 102 or niademarco@wrightsmedia.com.

Professional Tool & Equipment News (USPS #012-426, ISSN #1081-4485) is published 10 times a year in February, March, April, May, June, July, August, September, October, and December by Cygnus Business Media. Periodicals postage paid at Fort Atkinson, Wisconsin, and additional mailing offices. Subscription rates, in U.S. currency only, are: one year, \$35; two years, \$65; Canada/Mexico, one year, \$50; two years, \$95; international, one year, \$75; international, two years \$145. Back issues are \$10 per copy. Send check to: PTEN, P.O. Box 2357, Northbrook, IL 60065-3257. Postmaster: Please send change of address or subscription information to *Professional Tool & Equipment News*, P.O. Box 2357, Northbrook, IL 60065-3257. Call toll-free 877-382-9187 or 847-559-7598, fax 920-563-1704. Canada Post PM40063731. Return Undeliverable Canadian Addresses to: *Professional Tool & Equipment News*, P.O. Box 25542, London, ON, N6C 6B2.

Printed in the U.S. Vol. 24, No. 4; May 2013

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Resources: Tech Tips and Ask the Expert Q&As

Throughout the month of April, we'll be featuring Tech Tips on A/C recovery/recycle machines, and answering questions on engine service and repair. Go to VehicleServicePros.com/ask-the-expert to see the most recent Tech Tips and Ask the Expert Q&As.

Video: Industry Insights newscasts

Catch up on the latest news, and get a sneak peek on products before they're in the magazine, on our new Industry Insights video newscast. To see recent episodes, go to VehicleServicePros.com/media-center/newscasts

Blog: Why keep a clean shop?

A dirty, disorganized shop versus a clean, pristine shop: where would you rather work, and have your customer see? Assistant Editor Craig Truglia weighs in on the benefits of making an effort to keep his shop clean. To read the blog and join the conversation, go to VehicleServicePros.com/10916410

Tool Q&A Update: Hybrid repairs

The March Tool Q&A article on hybrid repairs has been updated to clarify some of the recommendations in the original article, and to include other strategies about completing hybrid repairs. To read the updated version, go to VehicleServicePros.com/10772722.



Elliot Maras, editor of Professional Tool & Equipment News, learns more about the new Direct Quote estimating feature from Identifix.



Even with worn floors like in the shop shown above, it's important to keep work areas clean and tidy for overall appearance to customers and the safety of employees.

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Unauthorized diagnostic tools harm the aftermarket's integrity; do your part to raise awareness

It's hard to understand why anyone, particularly a professional, would take a gamble on an unauthorized diagnostic tool. But peruse some aftermarket forums and you see there's no shortage of shops and techs willing to do so in the hope that they might save money by buying counterfeit tools.

Some of the experiences shared on the forums about "clone" tools not working right should be enough to make buyers understand the importance of buying from sources that provide service and upgrades.

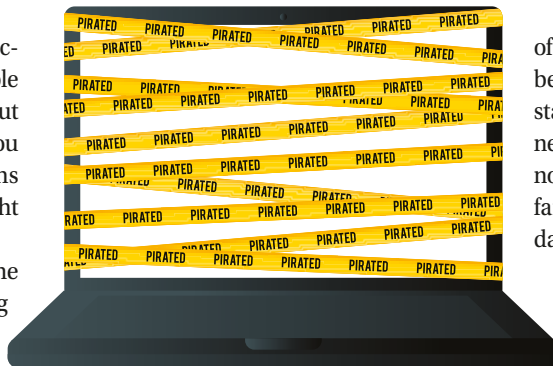
Scot Manna, a shop owner and auto tech instructor in Des Plaines, IL, understands why some of his colleagues buy unauthorized tools. "They're very attractive to a shop that wants to dabble in some stuff," such as foreign vehicles that require very expensive scan tools. But Manna, who has numerous OE and aftermarket scan tools at his four-bay shop, MB Automotive, thinks it's a mistake to buy counterfeits. Eventually, these tools lose their functionality and must be discarded.

Don't be fooled

Manna recognizes that some shops buy counterfeit tools thinking they are originals. While some "clones" closely resemble original equipment, Manna says the reduced price is usually a giveaway; unless you know the owner, anything priced low is a counterfeit. He notes that all a shop needs to do not to be fooled is to buy from an authorized source.

Independent shop owners sometimes justify buying OE "clones" thinking the OE manufacturers overcharge for their tools to make a quick profit from independent shops, or they want to make it harder for independents to compete against their OE dealerships.

This type of thinking ignores the fact that the major OEs, both foreign and domestic, have taken a big role working with the



National Automotive Service Task Force (NASTF) to improve the service capabilities of independent shops. NASTF formed in 2000 to identify, communicate and resolve gaps in the availability and accessibility of automotive service information, service training, diagnostic tools and equipment.

Clones hurt the industry

The theft of intellectual property hurts the entire aftermarket. Counterfeit scan tools have been known to damage a vehicle's electrical system. Some have incorrect information that can cause misdiagnosis. And, losses suffered by legitimate manufacturers ultimately get passed on in higher costs to the aftermarket and the customer.

"Each clone on the market makes our product more expensive to the end user, and costs tool manufacturers millions annually on a global basis," says Ed Lipscomb, senior product manager of global diagnostics at Bosch Automotive Aftermarket. "As a manufacturer

of both OE and aftermarket tools, our team benefits from OE relationships and understands exactly what the end-user and tech needs are in the field. Clone manufacturers not only lack this relationship, but also often fail to meet the quality and longevity standards for overall manufacturing and testing."

Some think the Internet has made it impossible to protect intellectual property.

They are wrong. While the Internet has facilitated unauthorized commerce, it will also be part of the solution.

Charlie Gorman, executive manager of the Equipment Tool Institute - whose mission is to advance the vehicle service industry by providing technical data and open dialog between the manufacturers of transportation products, government regulators and the providers of tools, equipment and service information - puts the issue into historical perspective.

OE scan tools are expensive because the manufacturers imbed their proprietary data in the hardware, Gorman notes. But Internet-based technology is making it possible for OEs to manage proprietary data more efficiently and hopefully, more economically. Gorman thinks aftermarket providers will play a role in making OE diagnostic information more accessible.

In the meantime, shop owners would do well to pay attention to what aftermarket specialists have to offer. And to buy from authorized sources.

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⊕ PENETRATES RUST ⊕ FAST-ACTING

Tool Briefing offers real-world tips and advice for using specific tools to accomplish specific tasks. The Customer Concern is shown below. Remember, the tool information might apply to many other vehicles too.

What to do with high voltage problems on hybrids

Diagnosing a hybrid vehicle requires the same diagnostic technique as any other vehicle.

VEHICLE APPLICATION:

- 2005 Honda Civic Hybrid 1.3L

AVG. REPORTED MILEAGE:

- 152,104 miles

CUSTOMER CONCERN:

IMA light with code 78.

TOOLS USED:

- Scan tool
- Information system
- CAT III multimeter
- Insulation tester
- High-voltage safety equipment

STEPS

TESTS/PROCEDURES:

- 1 Scan for codes and check to see if there is also a P1586.
- 2 If not, clear the code and then run the vehicle at 3,500 to 4,000 rpm.
- 3 If P1586 does not set, check HV battery module's calibration ID.
- 4 If the calibration ID does not match what is specified in TSB A12010, reflash the module.

If a vehicle with a check engine light rolls into your bay, what is your diagnostic routine?

First you may scan the code, check technical service bulletings (TSBs) and do a visual inspection of the vehicle and then follow the test plan offered by your scan tool or information system to diagnose the vehicle.

Throughout the whole process, your particular experience with the problem, and with vehicles in general, informs you when to conduct certain tests with particular tools and when to

disregard the test plan if necessary.

Does any of this change when we have a different light on, like an airbag or ABS light? Of course not! So, don't get intimidated if you ever come across a Honda hybrid vehicle that has an Integrated Motor Assist (IMA) light on. Your instincts won't fail you.

CODE 78: BATTERY MODULE DETERIORATION

So, a 2005 Honda Civic Hybrid rolls into your door. It has over 150,000 miles



Figure 1: This 2005 Honda Civic Hybrid has an IMA light on. In order to access the HV battery, the rear seat has to be removed.



Proper safety equipment should be used with a Fluke 1587 insulation-test capable multimeter.

on it and that means Honda no longer has any liability if the HV battery dies. Now the customer brings it to you because the IMA light is on.

CONTINUED PAGE 14

Mechanics Must Have: Multi-Media **NEW** Inspection Camera



4GB SD Memory Card

Holds 42,800+ images or 100+ mins video recordings

4GB

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Reviewing images and videos directly on device

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Video recording with voice annotation

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Easy to inspect tough-to-reach areas w/ 4 built-in LEDs for illuminations

USB Output

For transferring videos and images to a PC/TV

View Flip

110° viewing angle & 180° flip the viewed object

2.5X Digital Zoom

3" LCD with 320x240 HD resolution
11 settings to adjust image size

Waterproof Flexible Cable

48" / 72" long waterproof camera cable/head
resisting damages from water



ARZ6055

Includes:

- 4GB SD memory card
- CIC501 4.5 mm x 48" long camera head
- AB642A 6V battery cartridge



ARZ6058

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- CIA001 Camera attachments
- AB642A 6V battery cartridge

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Drewtech

Using Drew Technologies CarDAQ-Plus J2534 interface, a technician can update the calibrations in the powertrain controller. This powertrain controller handles the hybrid vehicle functions. Since hybrid vehicles are complex and require software updates frequently for peak performance, this is a required piece of equipment to service modern hybrid vehicles. For more information on this product, visit VehicleServicePros.com/10097373.

Fig. 1: The new HV battery the dealer installed into this 2006 Honda Civic Hybrid.



Signal	Value	Units
W PHASE AMPS	0	A
V PHASE AMPS	7	A
U PHASE AMPS	-12	A
U PHASE AMPS	0	A
WVDC AMPS	0.0	A
BATT MOD AMPS	50.1	A
SOC	7.7	%
CHARGE AMPS	159	V
WVDC VOLTAGE	13.78	V
BATTERY	743	SPR
WHEEL SPD	0	MPH
VEHICLE SPEED	132	V
ALT TEMP	480	Kelvin
EV BATT	162	V
HYBRID VOLTAGE	8.8	V
WVDC VOLT	111	V
WVDC TEMP	17.88	V

Fig. 3: Battery state of charge on this Honda Civic Hybrid is good at 159V. Anything above 144V is good. The screenshot is taken from the Honda HDS scan tool which uses the OTC MVI as its interface. The OTC Pegisys Diagnostic System, No. 3828, shares the same hardware but different software from this tool. For more information on the OTC tool, visit VehicleServicePros.com/10103381.

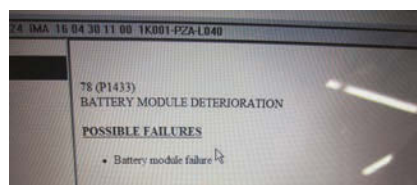


Fig. 4: The factory scan tool tells us the only possible cause of failure is the HV battery itself. Should it be replaced?

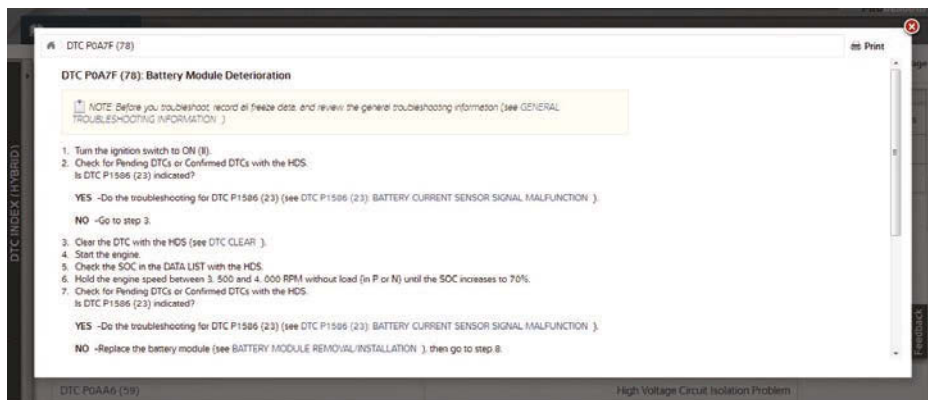


Fig. 2: Mitchell 1 ProDemand gives a test plan to diagnose the Code 78 on this hybrid. For more information on Mitchell 1 ProDemand, visit VehicleServicePros.com/10451541.

The customer informs the shop that the dealer replaced the battery at 147,000 miles (see Fig. 1), so he does not know why the light is on. Is the battery defective? Did they really even replace it?

The first step is to read the DTC, and what is found is a Code 78. In Mitchell 1's ProDemand, searching for this code gives us a test plan for a P0A7F (see Fig. 2). Here ProDemand asks us to delete the DTC, then hold the engine speed at 3,500 to 4,000 rpm until the HV battery's state of charge reaches 70 percent.

After running the test, you check for pending DTCs and what do you see? No new codes. Looking at the PIDs, the

HV battery is at 159V, which is good for a Honda (see Fig. 3).

But, what's the test plan tell you to do? Replace the HV battery. Using the factory scan tool, the HDS, it informs you that the only possible cause for the error is "battery module failure" (see Fig. 4).

GO BEYOND THE TEST PLAN

Wait, this doesn't make sense! The customer informed you that the battery was replaced and the vehicle has prominent "PC1" stickers that indicate the vehicle now has a second generation battery (see Fig. 5)

What do you do now? Read TSBs. After all, if the problem is relatively com-



Fig. 5: These stickers saying "PC1" are put on Honda hybrids with an updated HV battery.

mon, the OEM is going to alert you of it.

On ProDemand, the first TSB you will find is A12010 which states simply "to fix this problem, replace the IMA battery" (see Fig. 6, on next page). However, if we read carefully, ProDemand adds "Don't forget to match the IMA software to the IMA battery" and links to a subsequent TSB for "IMA battery software and hardware updates" (see Fig. 7, on next page).

This TSB, number 10-083, informs us that the IMA system will have premature battery life with the old software, lists the different generations of HV batteries (PC1 is a second, upgraded

CONTINUED PAGE 16



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Now loaded with OEM-specific coverage for dozens of systems and more features and functionality than the previous model, new ETHOS® Plus is the perfect addition to any shop. With a 50% larger full-color display, new keyless operation and a fast boot-up, it's simpler yet more productive than ever. Which makes it the ideal solution for new and experienced users alike. And despite its many improvements, there's one thing we haven't added: cost. In fact, affordability may be its biggest plus of all.



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The Midtronics A battery analyzer that works across all hybrid vehicle manufacturers, like the Midtronics HYB-1000 Hybrid Battery System Analyzer can open the door for more shops to enter the hybrid service business. The HYB-1000 improves customer service by identifying problem packs and cells before they cause system failure. This safe, easy-to-use, one-person testing tool enables technicians to run a battery pack diagnostic routine while driving the vehicle. For more information on this tool, visit VehicleServicePros.com/10107085.

model) and informs you that this battery needs software with a 2, 3 or 4 and has the digit after the letter "A" in the Calibration ID.

When we look at the Calibration ID on the vehicle, we realize it ends in "L040," not A2XX, A3XX or A4XX. This vehicle needs a reflash!

Using the factory scan tool, which is the OTC MVCI, and a \$10 software subscription available directly from Honda, anyone can do this. Simply update the tool, click on "CM Update" and the tool will automatically walk you through the process.

STANDARD DIAGNOSTIC ROUTINE WORKS

Replacing the software, not the battery, will fix this vehicle. So, by following a standard diagnostic routine, where we made use of an information system, TSBs and shop equipment such as scan tools, this vehicle can be diagnosed and repaired without costing the customer an unnecessarily expensive HV battery. ENR

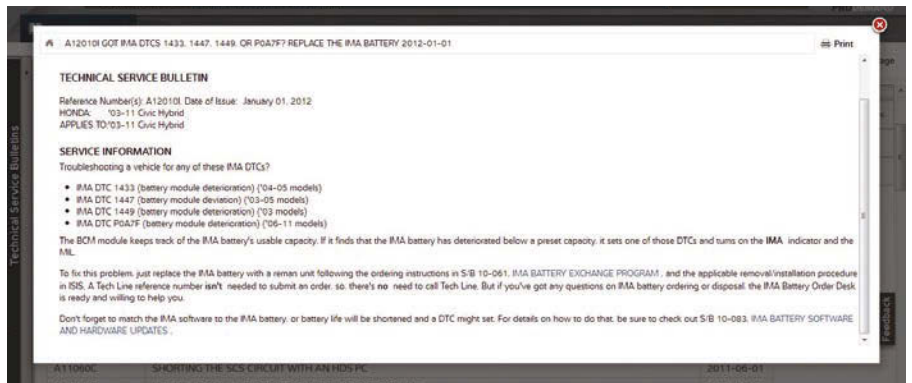


Fig. 6: This Honda TSB tells the reader to replace the HV battery. But this car already has one.

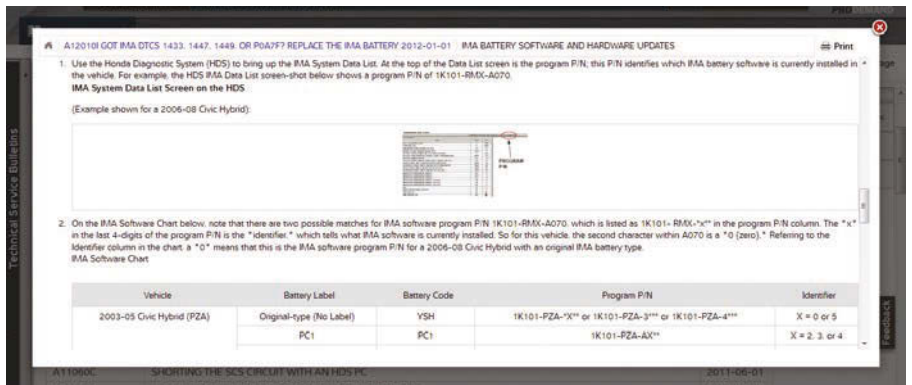


Fig. 7: This updated TSB informs the reader that a certain model battery requires a certain Calibration ID.

Courtesy Check

2005 Honda Civic	Battery: Non-AGM	License: 567THY	Mileage: 28374
VIN:	TPMS: None	OE Tire Pressure: 36 psi	OE Tire Size: 225/50R17

Checked and OK	May Require Future Attention	Immediate Attention Required	
Interior of Car			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Horn Non Op
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Interior Lights
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Malfunctioning Indicator Lights
Exterior of Car			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Exterior Lights
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wiper Blades

Maintenance			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Engine Oil
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transmission Fluid
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Coolant
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cabin Filter
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fuel Filter
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fuel Injector System Cleaning
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Power Steering Fluid

Under Hood	Under Car

Inspection Connection can inform us what battery a Honda Civic Hybrid takes. Contrary to "common knowledge," it has a standard lead-acid battery. For more information on this product, visit VehicleServicePros.com/10888230.

VEHICLESERVICEPROS.com

More resources on hybrid repair:

For best practices for charging AGM batteries, visit www.VehicleServicePros.com/10928473

For voltage requirements to consider for hybrids, visit www.VehicleServicePros.com/10928476

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TOP TEN 10 PTEN TOOLS

Tools for the shop that sets itself apart

SHOP: Chad's Automotive
LOCATION: Titusville, FL
OWNER: Chad Nelson

Chad's Automotive services all types of cars, specializing in race cars. Nearly all of the business comes by word of mouth. Owner Chad Nelson also builds race cars as a hobby. Nelson keeps up on new repair tools and is known locally as an expert on diagnostic tools.

By Elliot Maras, Editor



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1 Launch X431 Master scan tool

The X431 Master from Launch has multiple connectors incorporated into the Smartbox. Boot-up time, navigation within the menus and overall performance are now up to 30-percent faster than prior scanners. Nelson uses it on 98 percent of his repairs, and he claims it has OEM-level diagnostic capability. "You need that one to do it right the first time. It gives me the ability to get the information I need to make the repair the right way." For more information on this product, go to: VehicleServicePros.com/10106198.



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2 Mac Tools SmokePro machine from Redline Detection

The EV9520 Smoke Pro from Mac Tools functions by puffing smoke into one of a car's sealed systems, which produces tell-tale wisps of smoke and pinpoints the location of the leak. "Most guys think it's for vacuum leaks, but it does so much more. It can be used for oil leaks, exhaust leaks and transmission leaks. It takes two to three minutes to set it up and you can find out so much information." For more information on this product, go to: VehicleServicePros.com/10928382.

4



Mac Tools AR1776 3/8" Drive Air Ratchet

The AR1776 3/8" Drive Air Ratchet is a one-piece, steel ratchet anvil that is quiet but carries a lot of power. This is a sturdy tool perfect for just about every job, according to Nelson. With preventative service such as oiling and conditioning, this air ratchet will be in the toolbox arsenal for many years. "I'm really big on preventative service. I oil it, I condition it." For more information on this product, go to: VehicleServicePros.com/10924274.

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3 Mac Tools MB 1900A Macsimizer 20-drawer work station

The Macsimizer MB1900A has 200 lbs per drawer capacity and 400 lbs capacity in the extra-wide top drawer. Its heavy duty construction provides maximum support and will hold up to 12,000 lbs with six casters. "As a small business, I take pride in storing tools customer see. If you take care of your tools, you'll take care of their car." For more information on this product, go to: VehicleServicePros.com/10924249.

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5

Mac Tools 6-ton Spring Assist Stands

The Lighting Lift jack stand offers a fast lift. The rack bar quickly rises to the desired support point. The heavy gauge, steel frame helps prevent distortion and twisting. "You don't have to adjust them; you just pull this piece. The anvil in the center actually lifts on its own." For more information on this product, go to: VehicleServicePros.com/10924271.

Enter 210 at "e-inquiry" on vehicleservicepros.com





6

DeWalt 12V 3/8" Impact Tool

Three LEDs provide visibility without shadows and the 3/8" hog ring anvil allows for fast socket changes. After three years, the tool is still as good as new. "You just grab it and go." At only 2.3 lbs., the DeWalt 12V MAX 3/8" Impact Wrench, No. DCF813S2, offers 1,150 in/lbs of torque for a variety of fastening applications. For more information on this product, go to: VehicleServicePros.com/10183300.

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7

Power Probe master set

Power Probe's Master Combo Kit, No. PPKIT03, allows the technician to follow and locate short and open circuits without removing molding panels and carpet just to expose wires. "What don't I use it for? It offers a lot of flexibility for electronic diagnosis. I use one tool out of the box rather than three or four; you would need a circuit tester, a multimeter and a pulsar if there were no Power Probe." For more information, go to: VehicleServicePros.com/10106958.

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8

Mac Tools universal hydraulic flaring tool set

This tool kit comes in a custom-molded box and provides GM fuel line flare; brake lines and transmission 5/16" and 3/8"; flare/double flare 3/16", 1/4", 5/16", 3/8" and 1/2" and metric bubble flare. "It allows you to do standard flare, single flare and fuel line flare. You're not squeezing a handle and you get uniform flares each and every time. This is versatile." For more information, go to: VehicleServicePros.com/10924302.

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10

Enter 209 at "e-inquiry" on vehicleservicepros.com

Mac Tools Cobalt drill 35-pc extractor set

This master extractor set includes a variety of screw extractors, left-hand Cobalt drills and spiral flute extractors. "It gets you out of a jam a lot of times. Inevitably, bolts are going to break and studs are going to break. Having the bolts will save you from additional hours trying to extract them other ways. You break your drill bits every now and then. You can extract bolts broken off in an engine or chassis and put them back correctly. You can give the vehicle back knowing it is fixed 100 percent." For more information on this product, go to: VehicleServicePros.com/10924306.



Chad Nelson appreciates the patented anti-vibe technology on the Mac Tools anti-vibe hammers.

9

Mac Tools anti-vibe hammers

Mac Tools Anti-Vibe Hammers are available in a variety of sizes including 8 oz (No. BH08AV), 12 oz (No. BH12AV), 16 oz (No. BH16AV), 24 oz (No. BH24AV) and 32 oz (No. BH32AV), and feature patented Anti-Vibe technology to dampen vibration. "It really deadens the residual effects from hammering. The hammer absorbs that and does not feed it back through your hands. It's comfortable on your hands." For more information on this product, go to: VehicleServicePros.com/10928372.

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2013 PTEN Innovation Awards Nominees

Each year, tool and equipment manufacturers send us their newest and most innovative products introduced over the last year.

This annual competition generates plenty of excitement, because each of these tools allows technicians just like you to perform the job faster, easier and more efficiently.

In this issue, you'll find the second round of nominees. *PTEN's* panel of judges, consisting of active repair technicians and shop owners, has been hard at work rating each product to determine which stand above the rest.

Check out the April issue for the first round nominees, and watch for winners to be announced in the June issue.

COMPANY: STERIL-KONI
PRODUCT: ECO LIFT

The Steril-Koni EcoLift (No. ECO 60) is the industry's first U.S.-patented, ultra-shallow, fill-rise, in-ground scissor lifting system, according to the company. Capable of lifting up to 60,000 lbs with a two-scissor configuration, and 90,000 lbs with a three-scissor design, EcoLift uniquely combines high-pressure, low-volume hydraulics and only requires



3.5 gal of fluid per scissor – with nothing buried. This lift ensures sizeable cost savings on construction and installation, and given its pit depth requirement of only 34", EcoLift is ideal for retrofit in existing workshops and areas with a high water table or bedrock.

EcoLift has a 70" maximum lifting height for generous access, wheel-free lifting, and its double lock jaws are made of high-strength, T-1 steel with a unique press-to-lock function, a safety feature not available on other axle engaging lifts, according to the company. It's also easy to service, with controls and hydraulic components located in an above-ground console. EcoLift is ALI/ETL certified for ultimate safety.

CATEGORY: LIFTS
Enter 23 at "e-inquiry" on vehicleservicepros.com

COMPANY: TRAXION
PRODUCT: PROGEAR TOPSIDE CREEPER

The ProGear TopSide Creeper has a fully-padded frame with a replaceable, padded upholstery cover. The cover is secured using velcro, so it is removable for cleaning or replacement. The upholstered cover slides over a sling instead of a hard plywood deck. This improves comfort, reduces weight and makes replacing the decking much easier. The updated Professional Topside Creeper has an I-base design that allows more flexible positioning around the vehicle. The PRO TC allows the technician to reach 40 percent more area around the front of most vehicles and equipment.

CATEGORY: JACKS & STANDS
Enter 25 at "e-inquiry" on vehicleservicepros.com



COMPANY: BIG GATOR TOOLS
PRODUCT: V-DRILL AND V-TAP GUIDES

Big Gator Tools offers a unique line of patented Drill and Tap Guides. It is virtually impossible to hand drill or tap a perpendicular hole without a guide. When properly aligned using a guide, drill bits cut faster and taps cut uniform threads. Drill bit and tap failures are also reduced. These guides are manufactured using a heat-treated nickel alloyed steel. The guide base surface is machine-ground to assure stability and perpendicular alignment on flat surfaces. The V-Groove base allows the guide to be positioned on virtually any round object or square corners. Convenient alignment marks on one side of the drill guides center the guide holes over material to be drilled. Big Gator Tools currently offers two V-DrillGuides and four V-TapGuides. All tools are 100-percent made in U.S.A.

CATEGORY: TOOL ACCESSORIES
Enter 24 at "e-inquiry" on vehicleservicepros.com



COMPANY: LINCOLN INDUSTRIAL

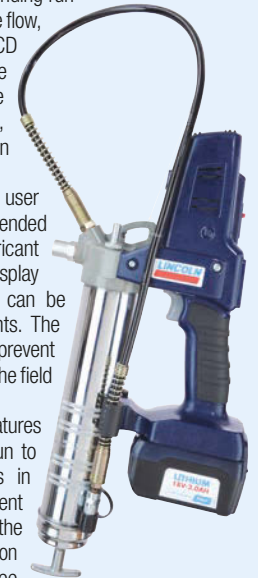
PRODUCT: 18V LITHIUM-ION POWERLUBER GREASE GUN

The innovative design of the Lincoln 18V Lithium-Ion PowerLuber grease gun incorporates outstanding run-time, output pressure and grease flow, as well as a multi-function LCD that displays quantity of grease dispensed, quantity of grease remaining in the cartridge, battery charge level, operation signal and stall indicator.

The PowerLuber allows the user to monitor grease output for extended equipment life while saving lubricant and improving run time. The display is simple to understand and can be reset easily between lube points. The cartridge level display helps to prevent the user from getting caught in the field without grease.

This cordless tool also features an LED on the front of the gun to shine light on grease points in shaded areas, under equipment or when lubing early or late in the day. Its high-ampereage, lithium-ion technology provides fade-free delivery and outstanding run time while offering three times the lifespan of NiCd batteries.

CATEGORY: OIL & LUBE
Enter 26 at "e-inquiry" on vehicleservicepros.com





COMPANY: THEXTON MFG.
PRODUCT: DEF CHEK TESTER

The Thexton TH108 DEF-Chek Tester tests Diesel Exhaust Fluid (DEF) to ensure that the urea concentration on the DEF is correct. Previous methods of checking urea concentration were very expensive, and the TH108 retails for under \$20. Diesel exhaust fluid is in all heavy duty vehicles 2010 and newer, which makes this tester increasingly valuable as the years go on. A failure to test diesel exhaust fluid may result in clogged injectors or fluid not working properly. The bulb design of this product has made testing quick and easy by simply placing the tester's hose into the DEF fluid and squeezing the bulb, obtaining a reading based on the amount of discs floating. If two discs float, the urea concentration is adequate. If any other amount of discs float, service manuals suggest replacing the DEF with new, known good DEF.



CATEGORY: HEAVY DUTY
Enter 27 at "e-inquiry" on vehicleservicepros.com

COMPANY: AUTODATA PUBLICATIONS
PRODUCT: QUICK-REFERENCE PRO

Quick-Reference PRO (QRP) is the online, quick-reference service information resource from Autodata Publications Inc. QRP covers over 4,200 vehicle models from 1995 – 2013. It provides auto repair shops with fast access to the most frequently needed automotive service information. Below is just a partial list of what is included:

- Maintenance schedules and illustrations.
- Technical service bulletins.
- Labor times.
- Diagnostic trouble codes, including definition and probable cause.
- Torque specs.
- Maintenance reminder reset procedures.
- Fluid capacities and types.
- Battery disconnect procedures.
- Key programming procedures.
- Timing belt/chain procedures.
- Wiring diagrams.



Autodata employs trained technicians with years of shop experience to compile, illustrate, link and present these critical pieces of OEM-sourced information within QRP. Information is easy to find and formatted to print efficiently. With QRP, technicians have the critical information they need at their fingertips, allowing them to spend more time in the service bay.

CATEGORY: REPAIR INFORMATION SOURCES
Enter 28 at "e-inquiry" on vehicleservicepros.com

COMPANY: CLORE AUTOMOTIVE
PRODUCT: SOLAR PRO-LOGIX PL3730 INTELLIGENT WHEEL CHARGERS

The Clore Automotive SOLAR PRO-LOGIX PL3730 Intelligent Wheel Chargers feature fully automatic, microprocessor-controlled operation – simply set charging parameters and press "charge." These units properly charge all battery types, including conventional, AGM, gel cell, spiral wound, marine and deep-cycle batteries.

- Advanced Multi-Phase Charging Process charges each battery based on its needs for optimal results.
- LCD display provides detailed information during operational set-up and when charging.
- Optimized "Soft Start" and "Battery Recondition" routines specifically address the needs of problem batteries.
- Charging status indicators alert the operator on the progress of the multi-phase charging process.
- Reverse Polarity Protection, Battery Fault Detection and a variety of safety features ensure operator and vehicle safety.
- Two-year limited warranty.



CATEGORY: BATTERY STARTING/CHARGING
Enter 29 at "e-inquiry" on vehicleservicepros.com

COMPANY: MATCO TOOLS
PRODUCT: TH209 PROFESSIONAL CIRCUIT AND PARASITIC DRAIN TESTER

The Matco Tools TH209 Professional Circuit/Parasitic Drain Tester tests circuits up to 80 amps using the fuse contacts instead of connecting the amp meter to the circuit. The unit tests mini, maxi and ATO fuses and can be used on all domestic and foreign makes and models. The set includes the circuit/parasitic drain tester, two AA batteries and positive and negative test leads.



The Fuse Value button allows the user to select a specific fuse ranging from 5A to 80A to get precise readings. The tester verifies if a fuse is blown, if there is a parasitic drain or if there is no connection.

This tool is not polarity-sensitive when contacting test leads to fuse contacts. Made in the U.S.A.

CATEGORY: ELECTRICAL SYSTEMS
Enter 30 at "e-inquiry" on vehicleservicepros.com

COMPANY: TRAXION
PRODUCT: PROGEAR WIDE-BODY CREEPER

The ProGear Wide-Body Creeper sets a new standard for comfort, function and mobility. Huge 5" casters provide an easy ride, even on rough shop floors. Despite the large wheels, the Outrigger Frame provides an extremely low profile. The Wide-Body drop deck has no torso pinch points. The contoured deck provides extra padding where it matters. This unit provides lumbar support and features an extra-wide area, with superior comfort. This results in less fatigue and increased productivity. Big casters roll over stuff that stops other creepers in their tracks. The contour deck takes comfort to another level.



CATEGORY: JACKS & STANDS
Enter 31 at "e-inquiry" on vehicleservicepros.com

COMPANY: INSPECTION CONNECTION
PRODUCT: PROSPEC

Inspection Connection's ProSpec web-based software allows repair facilities to perform vehicle inspections with tablets, laptops and mobile devices. ProSpec offers several levels of inspections with a Courtesy Check, Brake, Fleet, Vehicle Profile, Tire and Customized inspections. All inspection products are designed to build sales of service and repairs with integrated photo capture, personalized coupons and "emailable" reports. With ease-of-use and built-in VIN decoding, any technician can perform inspections. ProSpec inspections are MAP compliant, offer ongoing technical support, can be shop branded, customized to repair facilities' specific needs and are designed with ease-of-use for any level of technician.



CATEGORY: COMPUTERS & SOFTWARE
Enter 32 at "e-inquiry" on vehicleservicepros.com

COMPANY: GLOBAL LEAK DETECTION

PRODUCT: SMOKE WIZARD POP-IT CAPLESS DOUBLE DOOR FUEL NECK ADAPTER

The reusable Smoke Wizard Pop-it Capless Adapter (GLD052) fits the new double-door capless fuel necks. Simply pop it on, twist to seal and connect any leak detection device to test the system. This tool works well for EVAP tests, especially pressure/vacuum decay and smoke testing. It saves money and waste by never needing costly, messy, throw-away seals. The durable Pop-it Capless, made of fuel-resistant materials, is backed by a five-year warranty. Global Leak Detection, the Smoke Wizard manufacturer, is one of the oldest, most experienced OEM smoke machine manufacturers, serving Audi, Jaguar, Kia, Land Rover, Mazda, VW and other automakers, according to the company.

CATEGORY: LEAK DETECTION

Enter 33 at "e-inquiry" on vehicleservicepros.com



COMPANY: INJECTRONIC

PRODUCT: CJTALK

The CJTalk reads the vehicles diagnostic trouble codes and is the first OBDII scan tool to speak out these trouble codes so users can write them down. Users may also connect the small device using a USB cable to the computer to view trouble codes. This device resets codes all with a push of a button and works across ISOs, CAN, J1850PWM and VPW protocols with future software updates available over the Internet. The device is encased in a thick plastic shell that will protect it if dropped. The CJTalk increases the efficiency of the technician by retrieving trouble codes faster than an average scan tool device or having the customers to inform about DTCs on the road. Additional functionality includes a PC-based tool to use the CJTalk as an interface to the vehicle.

CATEGORY: SCAN TOOLS

Enter 34 at "e-inquiry" on vehicleservicepros.com



COMPANY: DELPHI

PRODUCT: DELPHI DIAGNOSTICS SCAN TOOL

The Delphi diagnostics scan tool operates on a PC-based platform and easily integrates into any workshop's existing platform. Delphi also offers a compact, WiFi-ready, touch-screen tablet PC as an alternative to the handheld tool and in-house workshop operations. The scan tool features:

- OEM diagnostics and flash programming. With access to the latest OE data and software, the Delphi scan tool has a variety of parameters, tests, device controls and coverage available.
- Bi-directional device controls.
- Multi-channel graphing.
- Latest interface and connections. The processor can be easily updated through Internet downloads. The simple vehicle connection uses a standard OBDII J1962 connector.
- Broad coverage. It starts with 1995-96 model year vehicles and includes all domestic and leading Asian manufacturers. European applications will be available in early 2013. There will be yearly updates for the latest generation of vehicles.
- Three complete kits. Kits include cables, adapters, external VCI power supply diagnostic software, J2534 flash reprogramming, and a rugged carrying case.

CATEGORY: SCAN TOOLS

Enter 35 at "e-inquiry" on vehicleservicepros.com



COMPANY: LOCK TECHNOLOGY, INC.

PRODUCT: LT465 WHEEL HANGER GUIDES

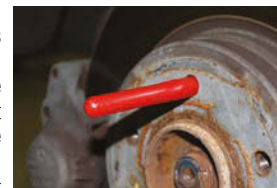
Lock Technology's LT465 12mm and 14mm Wheel Hanger Guides slide into wheel lugnut holes without using threads, saving the technician time, because it's not necessary to turn the wheel guide to install and remove the lugnuts.

Wheel hanger guides support the wheel and tire so the technician can easily thread lugnut bolts into the brake rotor and avoid dropping the tire or having the outside section of the rim hit the floor and scratch. This tool works on European vehicles such as Mercedes, Audi, BMW, Mini Cooper, SAAB and Volvo. Each kit includes one 12mm and one 14mm wheel hanger guide, costing half of a single steel one.

The polycarbonate plastic molded guides are lightweight and fit comfortably in a tech's shirt pockets all day, ready to use.

CATEGORY: TIRE, WHEEL SERVICE

Enter 36 at "e-inquiry" on vehicleservicepros.com



COMPANY: MILWAUKEE ELECTRIC TOOL CORP.

PRODUCT: M18 FUEL 1/4" HEX IMPACT DRIVER

The M18 FUEL 1/4" Hex Impact Driver features Milwaukee's exclusive combination of the Powerstate Brushless Motor, RedLithium Battery Pack and RedLink Plus Electronic Intelligence to deliver up to three times longer motor life, up to 50 percent more runtime, and a proprietary 3-Mode Drive Control feature for better control over the power and speed required for specific automotive applications.

The Powerstate Brushless Motor outperforms all leading competitors with constant power output, yet runs cooler with no wearable components, the company claims. The RedLithium Extended Capacity Battery Pack delivers more work per charge and more work over pack life than the competitors, according to the company. RedLink Plus intelligence ensures optimized performance and protection from overload, overheating and over-discharge. The M18 FUEL 1/4" Hex Impact Driver offers a range of 200 in/lbs to 1,600 in/lbs of torque. Its compact size and weight allow access to tighter areas and reduces user fatigue. The built-in LED illuminates work surfaces.

CATEGORY: POWER TOOLS

Enter 37 at "e-inquiry" on vehicleservicepros.com



COMPANY: SNAP-ON EQUIPMENT

PRODUCT: JOHN BEAN AC400 TOUCHLESS ALIGNMENT WHEEL CLAMP

The John Bean AC400 Touchless Wheel Clamp allows service technicians to secure clamping of the tire without touching the rim. The AC400 is fast and easy to use as clamping is accomplished with a single, fast-action adjustment knob which adjusts to the full range of tire sizes in just a few turns. Clutch limited clamping force ensures accurate and repeatable results.

With its patented self-centering design, the John Bean Touchless Alignment Wheel Clamp allows measurement of cross diagonal and tire rolling radius to reveal collision damage and mismatched tire sizes. The durable and drop tested cast magnesium construction eases the weight users have to carry. The AC400 also features a large, comfortable handle that is easy to operate and accommodates gloved hands.

CATEGORY: TIRE, WHEEL SERVICE

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COMPANY: AESWAVE

PRODUCT: UACTIVATE ULTIMATE CIRCUIT BREAKOUT BOX



The AESwave uActivate Ultimate Circuit Breakout Box makes it easy to connect test equipment to complete voltage, current and resistance tests. Connect the uActivate to the circuit

— one connection to the circuit. It is now easy to connect a lab scope, digital multimeter as well as an amp probe to the ports on the uActivate. The innovation of this product helps users with circuit testing through the relay socket, through the fuse, through a connector — the user is in control (of when the circuit turns on); flip the switch and uActivate the circuit on demand. This updated uActivate features updates to the internal circuitry, and comes with an added universal cable kit and adapters. This tool features LED indicators to quickly identify when voltage is present. It simultaneously performs circuit voltage and current tests using a lab scope or inductive current clamp, and the ability to monitor voltage to determine if any voltage drop exists.

CATEGORY: DIAGNOSTIC TEST EQUIPMENT

Enter 40 at “e-inquiry” on vehicleservicepros.com

COMPANY: HUNTER ENGINEERING

PRODUCT: ROAD FORCE TOUCH

The Road Force Touch delivers exceptional balancing service and performs a diagnostic Road Force test faster than a traditional wheel balancer performs a typical balance.

Using a “load” roller, the Road Force test finds hidden causes of vibration and pulls, not related to balancing. Then the balancer offers corrective instructions to remedy the problems. The integrated diagnostic test enhances the quality of service and generates more profit opportunities without adding valuable service time.

The Road Force Touch features a touchscreen interface that simplifies operation and shortens the learning curve for new technicians. Live 3D graphics and animations display real-time wheel conditions and illustrate easy-to-understand procedures to improve ride quality.

New software tools include the patent-pending eCal auto-calibration, which electronically calibrates the balancer without any input from the operator, making the Road Force Touch the only true “self-calibrating” balancer.

CATEGORY: TIRE, WHEEL SERVICE

Enter 43 at “e-inquiry” on vehicleservicepros.com



COMPANY: SNAP-ON

PRODUCT: RECHARGEABLE LITHIUM ION WORK LIGHT

Versatility defines the Snap-on Rechargeable Lithium Ion Work Light (No. CTLED7850), making it useful in multiple settings and applications. This innovative 18V light features a unique Dual Beam Reflector System that easily changes from a “spot style” beam reflector that concentrates the brightest portion of light near the center of the beam pattern, to a second “flood style” beam reflector for applications that may require illumination over a larger area.

The Lithium-ion light has a cast aluminum head for durability and pivots 120 degrees for ease of use. A high capacity LED delivers a category leading 300 lumens of brightness.

CATEGORY: LIGHTING

COMPANY: LINK NEW TECH

PRODUCT: QD8 SERIES QWIK DRAW BRAKE MACHINES

The QD8 Series Qwik Draw brake machines are the first fully automatic brake machine without any mechanical or electrical pumps, according to the company. Users simply hook up the machine and it will shut off automatically without putting air into the lines. This air is safely measured because of the floating ball in the new fluid tank signaling the machine to shut off fluid flow, eliminating any air that could enter the brake lines without shutting off the machine. When the service is complete, any excessive air from the system will be depleted from automatic adapters on the brake master cylinder without any electronics or computers. This service can be fully completed in less than 10 minutes. Compared to older designs with three valves and no automatic shut off, this machine has been redesigned to only have two valves and automatic self-adjustment for pressure. Engineered with special aluminum and stainless steel, these units have 5” swivel casters for easy maneuvering.

CATEGORY: FLUID EXCHANGE

Enter 41 at “e-inquiry” on vehicleservicepros.com



COMPANY: REDLINE DETECTION

PRODUCT: SMOKE PRO PORTABLE LEAK DETECTOR

The OEM-approved Redline Smoke Pro Portable Leak Detector (PLD) comes with its own on-board micro compressor, eliminating the need for shop air and gas lines so users can go where the work is.

Portable Leak Detector will help garages and shop technicians quickly perform diagnostics, find more repair jobs and sell the repairs to their customers. By testing every vehicle that enters the shop, technicians increase their repair business while they improve customers’ vehicles’ fuel efficiency and decrease emissions.

The Smoke Pro Portable Leak Detector also gives technicians the ability to utilize an air-only cycle, mandated and recommended by many OEMs. With PLD, contaminant-free testing is quick and simple.

CATEGORY: LEAK DETECTION

Enter 42 at “e-inquiry” on vehicleservicepros.com



COMPANY: CHICAGO PNEUMATIC

PRODUCT: CP7759Q 1/2” IMPACT WRENCH

Carbon-fiber composite materials are used in a variety of applications, ranging from industrial equipment to consumer goods. Chicago Pneumatic developed the new advanced CP7759Q utilizing a unique carbon-fiber inlay housing which reduces weight and adds protection for the twin-hammer clutch for long-term durability.

The result of using the technology of tomorrow in the tools of today is the lightest 1/2” impact wrench in its range on the market, according to the company, weighing just 3.74 lbs (1.74 kg). Its lightweight construction makes the CP7759Q a more comfortable, highly balanced tool to reduce wrist and forearm fatigue, while still delivering 780 ft/lbs (1054 Nm) of maximum torque in reverse to give technicians powerful performance for a variety of vehicle service operations and general maintenance applications. In addition, the side-to-side, forward/reverse feature allows for single-handed operation in tight spaces.

CATEGORY: AIR TOOLS

Enter 44 at “e-inquiry” on vehicleservicepros.com



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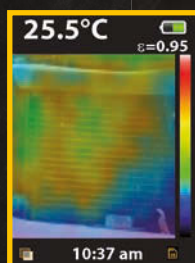
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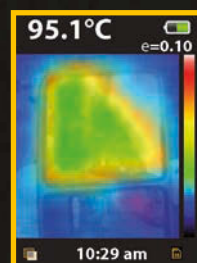
Functioning condenser



Malfunctioning condenser



Functioning mirror



Malfunctioning mirror



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COMPANY: ACDELCO

PRODUCT: ARI2044B LI-ION 18V 3/8" ANGLE IMPACT WRENCH WITH DIGITAL CLUTCH

The ACDelco ARI2044B Li-Ion 18V 3/8" Angle Impact Wrench with Digital Clutch is an innovative angle impact wrench that is built with motor technology delivering maximum reverse torque of 95 ft/lbs and maximum tightening torque of 60 ft/lbs.

The ARI2044B provides a variable speed control of 0-2,000 RPM and no load speed of 0-3,000 impact per minute (IPM). The 90-degree right angle design allows for tight space access.

The Digital Clutch ensures the tool automatically stops at predefined (user set) settings; ensuring bolts are not over tightened. Using a digital sensor rather than mechanical, the accuracy is maintained throughout the battery cycle.

The package includes: two rubberized Li-Ion 18V 2.0Ah battery packs, one 30-minute intelligent fast charger and a carrying case. Chargers utilize a patented, air-forced technology which forces air through the battery to cool it while charging it, allowing for much faster charging times.

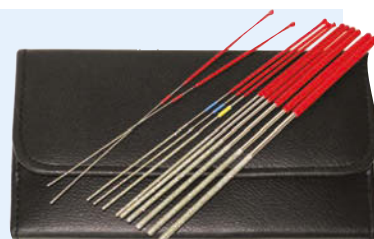
CATEGORY: POWER TOOLS

Enter 46 at "e-inquiry" on vehicleservicepros.com



COMPANY: INNOVATIVE PRODUCTS OF AMERICA

PRODUCT: FEMALE BULLET CONNECTOR CLEANER SET



IPA offers a complete set of tools for cleaning round, pin-type electrical terminals commonly used in Cannon, Deutsch, bullet type and general electrical connections. The set includes 12 individual pieces ranging in sizes from 0.030" – 0.120". Each tool features a diamond abrasive coating for precise cleaning, sizing and durability. Commonly used in automotive, truck, industrial and military-type applications, the Female Bullet Connector Cleaner Set can also be used for general file type applications where small orifice cleaning is required. The set covers a total of 10 sizes with duplicate cleaners in the 0.030" and 0.040" range. Each file is marked or color coded for size.

CATEGORY: SPECIALTY TOOLS

Enter 47 at "e-inquiry" on vehicleservicepros.com

COMPANY: SNAP-ON

PRODUCT: VERUS PRO

The Snap-on Diagnostics VERUS PRO diagnostic and information system combines an exclusive suite of tools that brings all of the answers to the bay wirelessly, in one tool, to manage the job from start to finish: scanner, scope, data manager, waveform library, schematics, TSBs, online technical forum, fast-track trouble shooter, guided test procedures and verified repair tips.

Unique and exclusive features:

- Expanded software suite combines scanner, guided component tests, an online technical forum, expert information and optional ShopKey repair information system.
- Fast-track trouble shooter and online community puts users in touch with the latest tips and expertise from technicians around the country.
- Industry-leading scan tool functions, tests and coverage only found in expensive factory tools.
- Single, keyless adapter for OBD-II applications for fast, easy connection.
- Wi-Fi and web browser for direct access to Internet resources.
- True Windows multi-tasking to see multiple tests side-by-side.



CATEGORY: SCAN TOOLS

Enter 48 at "e-inquiry" on vehicleservicepros.com

COMPANY: OTC
PRODUCT: GENISYS TOUCH

The OTC Genisys Touch Diagnostic System with an included J2534 Reflash/Reprogramming device, debuts exclusive AutoDetect feature, a uniquely designed experience-based information solution aimed at providing the technician with instant repair information solutions on the spot. It automatically detects and alerts the technician if there are any on-tool or Internet

repair solutions available for the specific year, make and model based on trouble code or symptom.

With one touch, a technician can call up repair information assets, eliminating the need to search elsewhere, saving significant time. Equipped with Code-Assist's more than 6 million experience-based confirmed fixes, along with Repair-Trac and the new Symptom Assist, technicians can easily obtain specific OBD-II diagnostic trouble code solutions, further increasing productivity by prioritizing the most efficient diagnostic strategies.

Genisys Touch further aids in automotive testing with the exclusive and innovative embedded video training feature with access to brief on-tool training videos.

CATEGORY: SCAN TOOLS

Enter 50 at "e-inquiry" on vehicleservicepros.com



COMPANY: SNAP-ON
PRODUCT: 1/4" DRIVE RATCHET

The extra-long handle on the new Snap-on 1/4" Drive Ratchet (No. TLL72) provides a longer reach and greater leverage in tight spaces than any 1/4" ratchet ever from Snap-on. With its 9" handle, technicians can easily reach those hard-to-access areas such as fasteners under the dash. It is the perfect solution for technicians who are looking to improve their productivity and efficiency in the service bay. The 72-teeth and dual pawls allow for minimum swing arc while maintaining maximum strength and durability. The 1/4" Drive Ratchet gives customers what they have been looking for: an easy-to-use, sealed, extra-long ratchet with the strength to be used on virtually any kind of job.

CATEGORY: HAND TOOLS



Introducing the X-431 LAUNCH Pad. The absolute fastest Scan Tool, from Diagnostics to Repair - right at the vehicle.

- Complete and comprehensive Asian, European and Domestic software suite.
- True PC based Tablet experience, running Windows® 7 OS.
- Find and Fix Faster® with Direct-Hit® from Identifix® 30-day free trial* - Direct-Hit® notifies you of vehicle specific repair information & known fixes automatically, right on the screen.
- Extremely intuitive and ultra fast navigation.
- Featuring the latest in OBDII wireless technology, Launch's patented communications chip utilizes LPT (Large Packet Transfer) Technology, offering the fastest and most stable OBD wireless diagnostics experience in the industry.



MSRP: \$3,995

LAUNCH

The Global Leader In Diagnostics
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More Information On
The Pad & Other
Great Launch Products



1-877-LAUNCH9 (528-6249)

Connect With Launch:   

Finally, an SRS, ABS and Transmission code scanner that has FULL European coverage along with Asian & Domestic.

CRP123 MSRP: \$299.99



Datastream	
LF Outlet Valve Solenoid	Inactive
LF Wheel Speed	22.93 mph
LR Inlet Valve Solenoid	Inactive
LR Outlet Valve Solenoid	Inactive

Diagnose Process
Engine Control System
Transmission Control System
Brake Control System
SRS System

Auto Vehicle ID, Auto Module Search & Ultra-Fast Protocol ID
Enhanced Live Data For ABS, SRS, Transmission & Engine • Record, Replay Data & Graph OBDII Generic • Includes All Functions Of The Popular Creader VI For OBDII Generic • Intuitive Interface, Button Operation & Sleek, Rugged Design
OBDII Generic Code Settings Parameter Help • Internet Updateable
Multilingual - English, Spanish & French • Print Via PC • 3.5" TFT Color Display

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www.launchtechusa.com



COMPANY: RISLONE
PRODUCT: GASOLINE FUEL SYSTEM TREATMENT

Rislone Gasoline Fuel System Treatment (No. 4700) combines six different fuel additives to create a product so advanced that it increases vehicle power, performance and mileage for 5,000 miles. A single, 16.9-oz bottle contains the same amount of vehicle-life-extending additives as a full bottle of each of these individual products:

- Valve and combustion chamber cleaner.
- Phase separation and fuel stabilizer.
- UCL upper cylinder lubricant.
- Fuel pump and injector cleaner.
- Water remover/gas dryer.
- Octane booster and gas treatment.

Rislone Gasoline Fuel System Treatment is packaged in a dual-cavity bottle with a patent-pending disposable spout attached to the neck under the cap. Simply tear the spout away from the perforated tab and then screw it onto the top of the bottle. The spout makes it possible to neatly pour Rislone Gasoline Fuel Additive into any vehicle, including the approximately 15 million with capless or obstructed fuel tanks.

CATEGORY: CHEMICALS

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COMPANY: SNAP-ON
PRODUCT: 1/4" DRIVE TORX LOW PROFILE SOCKET SET

Need more clearance when backing off Torx fasteners? With the six-piece, 1/4" Drive Torx Low Profile Socket Set (No. 106RTL) from Snap-on, technicians have more accessibility and clearance to complete jobs efficiently. This extension of the popular Snap-on low profile series is perfect for use under the dash or in cramped quarters found on complex European vehicles such as BMW, Audi and Mercedes as well as in tight applications found on Ford, Jaguar and GM vehicles. The sockets can be used with 1/4" extensions or any Snap-on 1/4" ratchet and 11mm ratcheting wrench. When used with the Snap-on RAT72 Low Profile Ratchet, the combination provides up to 25 percent more clearance than a standard 1/4" drive Torx socket with a regular 1/4" drive ratchet. The set is manufactured from special alloy steel, precision forged and heat treated for optimum strength and durability.

CATEGORY: SPECIALTY TOOLS



COMPANY: ROTARY LIFT
PRODUCT: SPOTLINE LASER VEHICLE SPOTTING GUIDE

Rotary Lift's patent-pending Spotline laser spotting guide improves technician efficiency and productivity by making it easy to properly position a vehicle on the lift the first time, every time. Spotline projects a green laser line directly into the middle of the vehicle service area. The technician simply centers the line on the vehicle hood and dash while pulling into the bay – there is no need to lean out the window or door. Originally introduced as part of Rotary Lift's Shockwave package for two-post and SmartLift inground lifts, Spotline is now available in a retrofit kit that's compatible with most lifts, regardless of brand. Spotline can be installed on the top of the lift or elsewhere above the work area. A motion sensor activates the laser when a vehicle approaches the bay to maximize battery life.

CATEGORY: LIFTS

Enter 53 at "e-inquiry" on vehicleservicepros.com



COMPANY: INNOVA
PRODUCT: FIX ASSIST SCAN TOOL

Innova's newest version of its flagship diagnostic tool, and one of technicians' favorites, the FIX Assist Scan Tool (No. 3130C) comes loaded with numerous sophisticated features, including FIX Assist, Innova's proprietary technology that gives users repair advice from actual ASE-certified technicians of the vehicle's problem on the tool in regards to its location and the verified fix information. Additional features include:

- Plug-and-play diagnostics.
- Works on domestic, Asian and European vehicles 1996 and newer.
- ABS coverage for 1996 and newer GM, Ford, Chrysler, Toyota and Honda vehicles.
- Patented "System Status" allows user to see whether the vehicle will pass emissions.
- View, record and play back live data.
- Patented hot keys allow the user to view live/freeze frame data, erase codes and access ABS information.
- Compatible with RepairSolutions, Innova's virtual solution technology that offers customers ASE-certified technician support for step-by-step fix information, as well as how-to videos, TSB/recall information, reporting options and more.

CATEGORY: SCAN TOOLS

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COMPANY: S.U.R. & R.
PRODUCT: TS14316 TUBING STRAIGHTENER AND BENDING PLIERS

Service professionals can make their own professional-grade lines using the new TS14316 Tubing Straightener and Bending Pliers now available from S.U.R.&R. Designed for use with both 1/4" and 3/16" lines, the pliers can be used to straighten or bend numerous material types including alloy, steel, stainless steel and poly-coated. Applications include making automotive brake and fuel lines along with other industrial uses.

Featuring a wide grip handle which provides maximum leverage, the pliers are built for long-lasting performance and are backed by a lifetime warranty.

CATEGORY: SPECIALTY TOOLS

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COMPANY: BOSCH
PRODUCT: EXPANDED M-VCI SUPPORT FOR VOLVO, TOYOTA AND CHRYSLER, WITH ADDED CONNECTIVITY TO NON-OBD II VEHICLES

Bosch's updated Mastertech VCI (M-VCI) scan tool, with its powerful ESI[tronic] 2.0 diagnostic software, has expanded its support for Volvo, Toyota and Chrysler vehicles, adding to its comprehensive, in-depth vehicle coverage. ESI[tronic] 2.0 complements the scan tool's award-winning Shop Foreman Pro software.

M-VCI has also added tool support for the "KTS Get Connected Kit," which allows the ability to connect and diagnose older, non-OBD II-compliant vehicles via ESI[tronic] 2.0. In addition to aftermarket diagnostics, M-VCI also supports OEM diagnostics by supporting General Motors Tech2Win and the BMW ISTA apps. In addition to diagnostics, M-VCI can perform ECU reprogramming through J2534 for General Motors, Ford, Chrysler, Honda, Nissan, BMW and Mini vehicles.

CATEGORY: COMPUTERS & SOFTWARE

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A bad valve lifter probably wouldn't be your first thought for a misfire (or your second or third for that matter)

PROVEN SHORT-CUT TESTS TO FIND YOUR FIX FASTER

VEHICLE SYMPTOM:

**The engine runs rough.
Sets misfire code P0304.**

2010 GMC Yukon SLT 5.3L comes in with a misfire on acceleration. Engine compression is low on one cylinder. Traditional failures like a burned valve or leaking compression rings aren't the cause of the problem.

CONFIRMED FIX:

Replace the valve lifter.

This valve lifter has an unconventional design as a part of GM's Active Fuel Management System, which has the ability to provide maximum fuel economy by deactivating four of the engine's eight cylinders. A valve that does not open properly can cause weak or no compression, resulting in a misfire. Replacing the valve filter restores engine performance so it runs smoothly without misfiring.

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Sometimes the right answer isn't the most obvious one. No matter what the diagnosis – from routine to random – Identifix will help you Find and Fix Faster.

Our industry-exclusive diagnostics eliminate the frustration of time-consuming factory flowcharts with short-cut tests and confirmed fix procedures. We even list fixes from the most to least common to point you in the right direction. It's information you won't find anywhere else. And our online tool, Direct-Hit[®] delivers it faster than any other system.

Direct-Hit also provides genuine OEM service & repair information so you can finish the job with speed, accuracy and confidence.

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FIND AND FIX FASTER[®]



COMPANY: STERTIL-KONI

PRODUCT: EARTHLIFT

The Stertil-Koni EarthLift (No. 1082 RRA) is the first hydraulic "green" mobile column lift, according to the company. With columns made from 98 percent recyclable components, EarthLift's Active Energy Retrieval System (AERS) allows operators to achieve 35 percent more lifting cycles at maximum lifting load. EarthLift uses a closed hydraulic system containing biodegradable oil, and its batteries are 100 percent recyclable that only need to be recharged every two weeks via standard 110V wall outlet.



In 2012, Stertil-Koni engineers made significant innovations to an already great product. The company modified the base frame and lifting fork to allow extension with additional capacity. This retractable base version offers a capacity 14,500 lbs per column. EarthLift mobile columns are completely wireless, using Zigbee communications, which is encrypted, safe and secure. These lifts feature minimal setup time, with no cables required. Users have the ability to control all columns in the set from any one column (up to sets of eight). Units rapidly lift vehicles in 89 seconds to a maximum height of 73".

CATEGORY: LIFTS

Enter 58 at "e-inquiry" on vehicleservicepros.com

COMPANY: ELECTRONIC SPECIALTIES, INC.

PRODUCT: 134 FUSE LEADS

The Electronic Specialties Fuse Lead (No. 134) is a standard test lead set, but with the added feature of the ATO fuse holder. This unit helps prevent a digital multimeter's internal fuse from blowing and provides extra overload protection. With Fuse Lead, this in-line fuse holder serves two purposes: to provide extra overload protection and safety for the user and the measuring instrument; and in the event of overload, the ATO fuse blows before the internal multimeter fuse blows.



To avoid taking apart a multimeter with a blown fuse, and replacing the potentially expensive fuse, the Fuse Lead allows users to avoid this sometimes time-consuming task.

This product saves time and it saves the tech money too. Fuse Lead also provides an extra layer of safety and overload protection.

CATEGORY: DIAGNOSTIC TEST EQUIPMENT

Enter 59 at "e-inquiry" on vehicleservicepros.com

COMPANY: GENERAL TOOLS & INSTRUMENTS

PRODUCT: VIPER 1700 SUPER HIGH-PERFORMANCE VGA RECORDING VIDEO BORESCOPE SYSTEM

The VIPER 1700 is a rugged yet lightweight, high-performance VGA resolution recording borescope system ideal for making high-quality vehicle video and photo inspections, delivering first-rate performance and exceptional image resolution at an affordable price. It speeds automotive maintenance and repair by enabling analysis and diagnosis of engine components, cooling/heating systems and many other densely-packed or inaccessible areas without disassembly, boosting shop efficiency and saving time and money.



The system comes standard with a 5.5mm-diameter, 1m-long, VGA-resolution, stainless-steel, camera-tipped, soft-metal probe that is water, oil and dust proof to IP67 standards. The probe features light boost, anti-reflection and screen rotation. Four front-facing LEDs illuminate the inspection, but can be shifted to two angled LEDs to minimize glare.

State-of-the-art interchangeable probes include ultra-slim 3.9mm diameter, lengths up to 10m and switchable front/side view. The console features brightness/contrast controls, horizontal mirroring, 2X zoom, and slow-motion/fast-forward playback. Dual output jacks allow before/after image comparisons.

CATEGORY: INSPECTION TOOLS, LAB SCOPES

Enter 61 at "e-inquiry" on vehicleservicepros.com

COMPANY: MATCO TOOLS

PRODUCT: MUC1238RKIT 3/8" CORDLESS RATCHET KIT

The Matco Tools MUC1238RKIT 3/8" Cordless Ratchet Kit offers technicians higher torque in a cordless ratchet and longer run time with a 12V 2.0 Ah li-ion battery. The battery includes a built-in fuel gauge. The ratchet has a maximum torque of 55 ft/lbs with working torque of 5 ft/ lbs to 50 ft/lbs.



This ratchet's features include a variable speed trigger that allows the user to have complete control. It has a trigger-activated LED that greatly improves visibility by illuminating the work area in poorly lit shops.

The ratchet features Matco's patented grease fitting in the yoke, allowing the technician to maintain the head for longer life.

With the new 2.0 Ah battery you have longer run time over 1.5 Ah batteries. This is an increase of 33 percent run time, according to the company, giving the technician more tool life between charges. The built-in fuel gauge provides information on remaining charge life.

CATEGORY: POWER TOOLS

Enter 60 at "e-inquiry" on vehicleservicepros.com

COMPANY: LAUNCH TECH USA

PRODUCT: LAUNCH X431 PAD

Launch Tech USA's Launch Pad scan tool diagnoses the repair right at the vehicle. Running on Windows 7, multiple applications can be utilized simultaneously and at blazing speeds, according to the company. Perform wireless-to-the-vehicle diagnostics, view graphs and record PID data, all while on the web gathering repair information. The Launch Pad features the latest in OBDII wireless technology, the DBS connector, with built-in LPT (large packet transfer) technology, offering the fastest and most stable wireless diagnostics experience in the industry. Add-on modules makes the Launch Pad the perfect scan tool for those needing a full-coverage, OE-level scan tool or for those needing additional capabilities, such as a lab scope and J2534 Passthru Programming. Also included is a free, 30-day trial of Identifix's Direct-Hit, which notifies the technician of vehicle specific repair information and known fixes automatically, right on the screen. This feature enables technicians to diagnose and repair the vehicle in a more efficient manner, boosting shop productivity and profit.



CATEGORY: SCAN TOOLS

Enter 62 at "e-inquiry" on vehicleservicepros.com

COMPANY: ACDELCO

PRODUCT: ARW1201

12V 3/8" RATCHET WRENCH

The ACDelco ARW1201 12V 3/8" Ratchet Wrench delivers 57 ft/lbs of maximum torque. The most powerful torque in its class by 60 percent, according to the company. It is built for durability and extreme applications.

The package includes: two Li-ion 12V battery packs, one quick charger and a carrying case. Features include a forward/reverse lever, durable aluminum gearbox housing, a variable speed switch and anti-slip grip.

CATEGORY: POWER TOOLS

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POWER PROBE DIAGNOSTICS

the Pro's Choice

WHY THE HOOK?

For those familiar with the blazing speed of Power Probe circuit testers, you will find the addition of the HOOK, not only a compliment to your electrical diagnostic arsenal, but a smart decision as well. Power Probe engineers designed the HOOK to help you fix cars with more pinpoint accuracy and do it quicker so you will make more money. Why should you own the HOOK...

...It's Easy, it's Smart and it's more Powerful.

IT'S EASY...

Its large LCD screen shows 2 lines of data that makes it easy to read. Connecting to any circuit is very easy using the standard 4mm banana jack that receives all of Power Probe's leads and accessories. Connecting to a battery with its 20 ft. lead makes it easy to test the vehicle from front to rear without constantly looking for a ground hookup.

IT'S SMART...

When measuring resistance it automatically becomes an instant ohmmeter and auto ranges without manually selecting it. It measures ohms from 0 to 15 Meg ohms. When measuring voltage it automatically becomes an instant voltmeter and auto ranges without manually selecting it. It measures from 0 to 99.9 volts. With the HOOK managing, all meter adjustments you stay focused with the task at hand. The Hook does that for you.

IT'S POWERFUL...

The HOOK delivers more power. It activates motors and components up to 100 amps inrush and can hold 25 amps to a circuit continuously. Not only does it supply battery power to components, but, you can read the Current Draw in Amps and Resistance in Ohms on the display. The HOOK is used by serious, no nonsense, technicians that just need to fix vehicles faster.

FEATURES, FEATURES, FEATURES...

Automatic Voltage Drop Indication:

Displays Battery Voltage and Tip Voltage simultaneously.

Adjustable Circuit Breaker:

Match the vehicles fuse size from 2-65 Amps.

Hot Shot Mode:

Load test power and ground in 1 millisecond.

Voltage Reference Mode:

Supply .5 to 5 volts / COMPUTER SAFE 20 milliamps.

Smart Tip Technology:

Touch the Tip to any circuit and the Smart Tip will automatically select the OHM or Volt Meter in the correct range for you.

Switch Mode:

Supply Power or ground: continuously, just for a moment or in pulses.

Power Up:

Powers up to 100 Amps In-Rush and 25 Amps Continuous while displaying current draw and dynamic resistance.



"One of the best tools I have... I own an auto repair business and pride myself on my electrical work... This thing is exactly what I needed! Works great in conjunction with my Power Probe 3..."

— Jason Ray of Red's Automotive Service - Nacogdoches, Tx



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The Ultimate in Circuit Testing

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TOOLS of the MONTH





1 DRILL HOLES MORE EASILY

The **Blair step drills** benefit from being made of premium cobalt M42 high-speed steel with a TiN (titanium nitride) coating, which improves tool life. The step drills feature an angled double flute which increases penetration rates and reduces the force needed when drilling. These step drills are available in the following sizes: No. 35400 for sizes 1/8" to 1/2" for 1/8" materials, No. 35401 for sizes 3/16" to 1/2" for 3/8" materials and No. 35402 for sizes 3/16" to 7/8" for 1/8" materials.

Enter 428 at "e-inquiry" on vehicleservicepros.com



2 DIAGNOSE MORE VEHICLES

AutoEnginuity's ProLine VCI and ScanTool 11.1, for Windows PCs, includes electrical improvements such as the improved protection for ISO pins to prevent errant vehicle power from overheating the connector. This tool also covers electronics enhancements required for the new Fiat, Ferrari and Maserati. Finally, more electrical switches were added to allow for more K-line isolation from other protocols, making switching protocols more reliable on mixed bus vehicles. The ProLine VCI update includes an integrated security dongle, freeing up a USB port for other devices and making the connection easier to perform with one less device to connect.

Enter 427 at "e-inquiry" on vehicleservicepros.com



3 EXTEND CAPABILITIES OF A DIGITAL MULTIMETER

The **Lisle 69300 Master Relay and Fused Circuit Test Kit** makes testing circuits with a relay or fuse quick and easy. This kit includes eight fixed relay test jumpers that work like back probes. Spaded terminal wires work with other relays such as those used in European vehicles. Terminal leads connect to fused circuits using Female-Pal, JK, LJK, Male-L-mini, Mini, ATO and Maxi fuses. This kit also

includes: two open-ended terminal wires, an inline switch with stacking banana plugs, two 3.5' extension wires, and an extension wire with a large alligator clamp that can be used to apply external power from a battery. All wires use standard banana plugs.

Enter 425 at "e-inquiry" on vehicleservicepros.com

4 CLOSE CV BOOT CLAMPS

The **CV Boot Clamp Pliers**, No. 28667, from **Mayhew Tools** can be used to mount ear-style CV boot clamps. These pliers come specifically designed to completely close ear-style boot clamps (Oetiker type and similar) by compressing each side of the clamp's ear using the forged anvil at the center of the plier's jaws. The plier's anvil permits an ideal closing of each ear clamp and thus ensures that the clamp is correctly installed, and takes up a minimum of space when closed. This tool can be used on CV boots, front-wheel-drive steering systems, fuel systems, air and water cooling circuits and air-bag systems.

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5 DIAGNOSE WITH CHRYSLER FACTORY SOFTWARE

Controller Technologies' DRB III Emulator software application runs on a PC and interfaces via USB to the DRB III+ Pass-Thru hardware device, enabling all the original functions a DRB III has for correct diagnosis and repair. The tool contains the exact DRB III scan tool software that dealerships use to diagnose and repair Chrysler, Dodge and Jeep vehicles from 1998 up to 2007, allowing this software to now be available to the aftermarket. With the addition of a J2534 Pass-Thru interface, this setup also serves as a flash programming and generic scan tool device, making this one of the most versatile tools in the market, according to the company.

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Prevent Brake Comebacks

Prevent brake comebacks with the right tools and proper procedures.

Q How can we find out if the front or rear rotors are warped?

A There are two methods and both are imperfect, because they don't make a scan tool for brake rotors!

The first method is to test drive the vehicle and feel the shaking when braking. If the seat or pedal shakes first, you likely have warped rear rotors. Now, when the steering wheel shakes, the front brakes probably need the work.

This method is imperfect for several reasons. First, you might feel shaking in both or the shaking might be ambiguous. You see, what if the vehicle shakes in the seat at 40 mph, but in the steering wheel at 55 mph? It would be hard to be confident in your diagnosis merely by feeling. Second, there will be times when customers complain, "When I drive 85 mph on the freeway, it shakes like crazy." Granted, if Sammy Hagar can't drive 55, he should not be doing 85 mph, but the customer brought the car to your shop to fix the prob-



A dial indicator is the only tool, other than a brake lathe, that can reveal how warped a rotor is.

lem. What do you do?

This is when a dial indicator becomes handy. After you attach the dial indicator and spin the rotor with a screwdriver or pry bar, the needle will tell you how warped the rotor is by thousandths of an inch. Most manufacturers (excluding the European ones) will publish specifications on how much "run-out" is acceptable, usually within 0.002" to 0.005". You can easily look up this information in

shop information systems.

Sometimes, you cannot easily measure run-out on the backside of the rotor or even after measuring it, you cannot find anything. In this situation it would be best to try to see how uneven the rotor is going latitudinally instead of around, or simply compare the rotors. If the left rear rotor is 0.004" while the front are both "0.0015, rear rotors should do the trick.

Q What's with all the hype I hear about brake lathes?



Here, a rotor is being cut with a Pro-Cut brake lathe. The cut marks appear deeper on some parts of the rotor than others. This is because this rotor is warped by more than 0.005". For more information on the Pro-Cut 9.2 DR0 on-car brake lathe, go to VehicleServicePros.com/10099519.

A Due to the increasing amount of brake pulsation comebacks, most OEs require that their dealers use an on-the-car brake lathe. The benefit of an on-the-car brake lathe is that it can compensate for run-out issues that may be caused by a hub. For example, if you replace a hub assembly, the run-out on the rotor might change because the angle of the rotor may be altered by hub placement. Now there is nothing wrong with a bench lathe, because it requires less finagling (moving it around the shop, adjusting it for different hubs, etc). However, you just can't compensate for hub run-out.

If you don't have a brake lathe, you're probably used to a degree of pulsation comebacks and have learned to live with them. However, if you work in one of the shops that still "cuts" brakes, you know why they come in real handy. Rotors can be really messed up. Factory machining is often substandard, and the only way to have a true comeback-free brake job with the vast majority of aftermarket rotors is to cut every rotor.

The problem is, in the real world, cutting rotors on the car can be a 40-minute process for many technicians. A lot of guys can do pads and rotors that quickly. If you work on a lot of vans (whose rotors are very expensive) or have customers willing to pay for a superior brake job, an on-the-car brake lathe is the way to go.

CONTINUED PAGE 34

The ultimate tool guide!

TOOL CHEST NOW AVAILABLE AT THE APPLE STORE.



Our most mobile platform yet! At the fender, in the break room or even on your couch. It provides more information, through interactive videos, slideshows and multiple product photos in one platform.

New products added monthly.



Q: What's the best way to prevent premature wear?

A: Procedure is very important when it comes to brake work. Take a look at if the shims are lubricated (uneven brake wear could be from a lack of lubrication), and if not, see if one side is wearing differently than the other.

Granted, if workmanship is fine you can have a brake caliper acting up and you can diagnose this with a brake caliper pressure gauge. To use it, put the block that the gauge is attached to in place of the brake pad and step down on the brakes. Simply compare the



A larger-than-average parts washer makes cleaning vital brake components a breeze.



Testing a brake caliper with a Disc Brake System Analyzer from Innovative Products of America requires removing the caliper and putting the gauge in between the brake pads. For more information on this tool, check out VehicleServicePros.com/10877983.

Innovative Products of America

questionable caliper to the good one and see if the pressures are different. If there is a difference greater than 10 percent, you can sell calipers along with pads and rotors.

Q: What can I do to stop a squishy brake pedal?

A: Have you ever noticed that the labor time for bleeding brakes is 0.6 to as high as 1.1? It's a money maker, sure, but the guys coming up with the labor time are not assuming that all you have is a guy stepping on the brake pedal and another guy with a 10mm wrench loosening the bleeder. However, when you do calipers (or bleed a clutch master cylinder), stepping on it just does not cut it sometimes.

This is when you need a powered brake flush machine. It cuts down on manpower to do a bleed/flush because it adds pressure to the master cylinder (through the use of an adapter), so that way you don't have to step on anything. Again, this is not a sales pitch for a machine. It's just that sometimes after a caliper job or brake lines, no amount of stepping on it will bleed the car right. These machines exist for a purpose, and aside from acting as a labor-saving device, this is one of them.

Also, watch out on certain vehicles where you will need to activate the ABS pump with a scan tool to get the job done.



Bleed the brakes with a brake flush machine. Notice that a battery is not directly on the floor. This is in accordance with EPA regulations in order to prevent fines. For more information on the Flo-Dynamics BrakeMate Jr., check out VehicleServicePros.com/10106064.

Q: I have too many brake comebacks, what should I do?

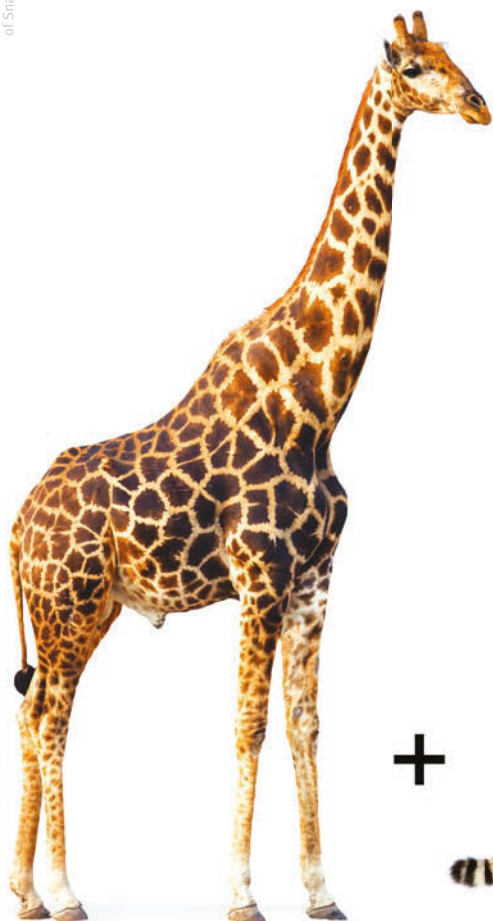
A: Most of the time, unless workmanship is grossly deficient, comebacks are the result of parts defects. Brakes shake even with new rotors and squeak with new brake pads. Sound familiar?

There are a few ways you can correct this. You can try to compensate for the parts with quality workmanship (i.e., sanding down the hubs, cleaning and lubricating the shims, etc.), but you should be doing these things anyway. You can also employ the use of brake lathes.

Last but not least, try to upsell the customer on quality brake pads. For an extra \$40, you can tell them, your brakes won't squeak. OE brake pads from Toyota, Honda, Nissan and Ford all tend to sell to the customer for \$60 to \$80 a pair.

Have questions? Need answers? Email craig@pten.com to have your questions answered in this column.

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Introducing the FAR7000, the new 3/8" air ratchet that offers better reach and more speed than ever before. It's 40% faster, in fact. And redesigned with a longer neck and smaller head, to get to those hard-to-reach fasteners other air ratchets can't. Simply put, it's a whole new animal. Find out more about its productivity-enhancing features by contacting your Snap-on Representative. Or visit snapon.com/wholenewanimal

Snap-on[®]



Repair A/C lines

The **Smart Splice Line-to-Hose Connector** from AirSept offers a permanent repair with only five-minute installation and no waiting for special-order OE lines. Repairs can be made often without line removal, saving labor time and increasing job profitability. It includes a HNBR seal sleeve that expands the metal line sealing surface area, Anti-Vibration Tension Ring technology that guarantees a tight grip and ensures long-term durability, and BurgaFlex crimp technology to provide a superior hose connection seal. The Crimper Tool comes with the kit. It connects to metric (8mm to 16mm) metal lines to number 6, 8, 10 or 12 hose.

Enter 66 at "e-inquiry" on vehicleservicepros.com



Work on fifth wheels

Tiger Tool's Just 5th Wheel Bracket Pin Puller, No. 10705, features a 20-ton hydraulic cylinder that generates over 40,000 lbs of pulling power to provide fast, safe and effective removal of even the most seized fifth wheel bracket pins. The machined components come with a black oxide coating to resist corrosion. The tool can be used with a Puller Add-On Kit (No. 15060) and a Pin and Bushing Service Kit (No. 15000) to allow for maximum flexibility.

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**Coil on Plug
Ignition Tester**

GTC General Technologies Corp.



TA500
SmarTach+COP

Easy and quick to use, it measures:

- ▶ Spark Burn Time
- ▶ Spark Peak Voltage
- ▶ RPM

For diagnostics of:

- ▶ Non-starts
- ▶ Misfires
- ▶ Defective coils and modules
- ▶ Fouled or damaged spark plugs



Works with Coil on Plug, Coil near Plug, D.I.S. (waste spark) and conventional ignition systems



To watch demo video online and learn more scan the QR Code, visit us at www.gtc.ca or call toll free 1-800-440-5582

This instrument is protected by one or more U.S. and Canadian patents. 'SmarTach+' is a trademark of GTC

Enter 69 at "e-inquiry" on vehicleservicepros.com



Clean vehicles without stripping paint

Guardair's Corp's Water Jet Cleaning Gun, Nos. 79WG and 79WGD, can be used for cleaning automobiles, trucks and equipment without damaging the paint. Utilizing compressed air, the tool delivers a high velocity water and air stream. It comes equipped with air volume control and a water shut-off valve so users can choose both air/water for cleaning, water-only for rinse or air-only for drying. It includes an 18" stainless steel extension with insulated grip for spraying hard-to-reach locations. Both models feature a classic, pistol-grip style handle that provides ultimate user comfort.

Enter 68 at "e-inquiry" on vehicleservicepros.com

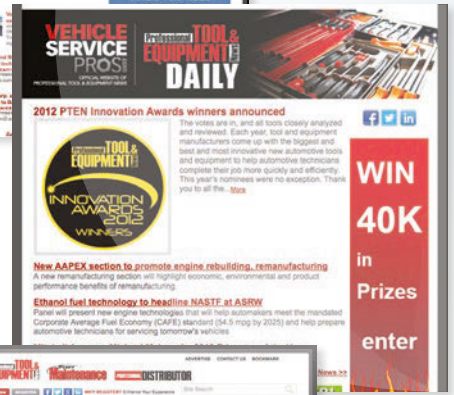
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New PRODUCTS PTEN

Service sealed transmissions

Mityvac's ATF Refill System, No. MV6412, features a 2.5-gal (10L) reservoir, which provides increased capacity, reducing the time a technician must spend refilling the reservoir on larger jobs. The system combines the fluid reservoir and lid with an integrated pressure pump and 10 ATF refill adapters to fill or top off sealed automatic transmissions. It also includes a narrow 12" wand for dispensing fluids in tight areas, a convenient hanging hook, a safety relief valve to prevent over pressurization and a tilt valve for manually relieving pressure in the reservoir.

Enter 70 at "e-inquiry" on vehicleservicepros.com



Service air conditioning

Mastercool's A/C Machines, Nos. 69788A and 69789, certified for compliance with SAE J2788, can perform automatic and continuous recover/recycle, vacuum, vacuum leak test and recharge. This machine includes an installed database of thousands of vehicle refrigerant capacities for domestic and imports from 1998 to 2012. Automatic operation includes auto oil discharge, auto air purge, auto vacuum leak test and auto filter alarm. This tool also incorporates a 6cfm vacuum pump for efficient air and moisture removal. A 30-lb internal DOT tank, heavy duty load cell scale and compact footprint will provide for years of reliable performance.

Enter 71 at "e-inquiry" on vehicleservicepros.com



Lift vehicles in flammable environments

Kar Lift Solutions by Omer invented the heavy duty parallelogram lift over 30 years ago, according to the company. This year, the Vega will now be available in a completely "explosion proof" model suitable for underground mining, industrial paint booths and other environments where inflammable gases may be present. All electronic sensors and micro switches have been removed without affecting the capabilities of the lift.

Enter 72 at "e-inquiry" on vehicleservicepros.com



IDENTIFIX[®] DIRECT-HIT.

Create labor and parts quotes

Direct-Hit, an Identifix subscription-based online resource, offers industry-exclusive vehicle diagnostics, factory scheduled maintenance plans and OEM service and repair information to nearly 100,000 users. Now it also includes **Direct Quote**, which differs from competitors' estimating tools in three ways. First, it allows the user to create multiple jobs within a quote. Second, by choosing parts and labor items, the program guesses what the job being performed is. Third, the user can build and save templates for shop specials or commonly performed jobs with automatic synchronization with the current vehicle. This results in a clear and understandable estimate that shop owners can print or email to their customers.

**Enter 74 at "e-inquiry" on
vehicleservicepros.com**

Check temperatures on A/C systems

Santech Industries' Thermometer Kit, No. MT3720, contains a dual read-out thermometer with J/K type thermo clamps and probes. The probes use the J/K type connectors allowing for a combination of probe usage. It provides probes for various temperatures to be used for the testing of components on different parts of the vehicle. The thermo clamps and probes can read between -58 degrees F to 1,292 degrees F. It includes a rubber protective cover for the thermometer and plastic carrying case. The kit provides an assortment of probes and extension leads.



**Enter 75 at "e-inquiry" on
vehicleservicepros.com**

Torque fasteners

The GearWrench **Electronic Torque Wrench with Angle Measurement** can be used on applications that require torque specifications that include tightening to an angle beyond a specified torque value. It provides the user with +/- 2 percent accuracy clockwise and +/- 3 percent accuracy counterclockwise, and benefits from increased accuracy over mechanical torque wrenches, according to the company. The angle mode delivers +/- 1 percent accuracy. The unit easily converts between ft/lbs, in/lbs and Newton meters. The tool comes in two drive sizes, 1/2" and 3/8".

**Enter 76 at "e-inquiry" on
vehicleservicepros.com**



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CLEANING GUN**



79WG Water Jet Cleaning Gun



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CLEANING JOB IN YOUR SHOP
OR GARAGE!**

Guardair Water Jet Cleaning Guns deliver a turbulent, high velocity, air/water stream designed to effectively clean but not damage the area or equipment you are working on.



79WGD
Water Jet
Cleaning Gun Kit

Our Water Jet Series Feature

- Unique Patented Design
- 3/4" Garden Hose inlet (female)
- 18" Stainless Steel Extension with Insulated Grip
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- Air Volume Control
- 1/4" FNPT inlet
- 79WGD Siphon with 6 ft feed tube with Brass Sink



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**New
PRODUCTS**

Weld body panels

The Dent Fix Micro Welding Clamps, No. DF-MC201, offer a fast and effective method of fastening materials for a pinch/spot weld. Especially effective for positioning body panels, these clamps generate huge clamping force for their size. All four of the clamps are adjustable from 0mm to 7mm and can be applied to small spaces like door columns, trunk edges, window edges and hatchbacks.



Enter 78 at "e-inquiry" on
vehicleservicepros.com

Mount vise almost anywhere

AFF's Swivel

Vises, Nos. 3941-

44, 3947 and

3948S, benefit

from being

manufactured

from ductile

steel to maximize

strength while

reducing brittleness.

Factory lubricated

and permanently

sealed components

allow for years of

easy operation.

All AFF vises are

swivel style and

can be easily

mounted on most

surfaces.



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**Light weight
and compact
impact wrench**

King Tony America's M7

1/2" drive impact wrench,

No. NC-4236Q, has

1,000 ft/lbs of

torque while

operating at only

83 dB. This tool

reaches a powerful

max torque in less

than five seconds.

The NC-426Q has a

light weight (5.7

lbs) and compact

(6-45/64" overall

length) construction,

with a pistol grip

style design. It

comes with a two-



Enter 82 at "e-inquiry" on
vehicleservicepros.com

**Service hybrid
and traditional vehicle A/C**

Snap-on's KoolKare Plus Hybrid-Capable A/C Recycler, No. EEAC325BH,

enables technicians to service both hybrid and non-hybrid vehicles effortlessly, thanks to a menu-selectable function that provides the ability to clear any residual oil from the recycler's fluid circuit and hoses, minimizing the risk of PAG to POE oil cross-contamination. It meets new refrigerant recovery standards J-2788 for high-voltage compressors and features an A/C capacities database and automatic air purge. Snap-on recommends that users purchase two manual oil injectors (No. ACT53134A), one designated for use with POE oils for use in hybrid electric compressor systems, and one for PAG oils.



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vehicleservicepros.com

Bend, bond and straighten

The **Hein-Werner**

25-Ton Shop

Press can be

used for

bending,

bonding and

straightening

applications.

This press has a

heavy-steel welded

H-frame and

widened support

base, making it

useful for the

removal or

installation of

gears,

universal joints,

pulleys, wrist

pins and other

press jobs. Optional

safety guard and

accessory kit (No.

HW93309) with

arbor plates,

bearing separator

and various

punch sizes, can

also be purchased.

The manual press includes industrial-grade rams and hydraulic pumps with a 4" pressure gauge and hand winch for easy adjustment of the multi-positioned bed.



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vehicleservicepros.com



Test emissions

Emissions Systems offers the **4/5 Gas Exhaust Analyzer**, No. EMS 5002. This portable, stand-alone unit can test a vehicle in the shop or on the road, powered by the vehicle undergoing the test or an optional 110V/220V AC converter. It has an improved filtration system with a high-performance water separator, so it can pull more moisture out of the sample gas. The unit can show all four or five gases and AFR or LAMBDA, displayed on the 3" by 5" back-lit display. Along with the display, the unit's internal electronics have also been improved, including a new PC wireless interface.

Enter 84 at "e-inquiry" on vehicleservicepros.com

Keep hands clean

Magid's **ROC GP100 Micro-Foam Nitrile Coated Work Gloves** have a micro-foam nitrile palm coating that delivers a new level of dexterity and tactile sensitivity. Specially formulated, this new coating is softer and more flexible than standard nitrile and provides a solid grip, even in wet and oily conditions. A form-fitting, high-density machine shell crafted from a blend of nylon and Spandex contributes to the gloves' all-day comfort with added stretch, softness and breathability. The gloves have an ANSI Cut Level 1 and ANSI Abrasion Level 4 resistance, delivering dependable protection when handling small parts, operating complex machinery and performing other tasks.



Enter 85 at "e-inquiry" on vehicleservicepros.com

View hard-to-reach spots

ITVS Imaging Technology's **iRis DVR 5 Videoscope System** comes as a self-contained, battery-powered and portable videoscope system. It has interchangeable parts and has an adjustable focusing capability that lets the user focus its camera. It stores video files in a MPEG4 video format and still images directly onto a SD card. The tool comes in lengths as long as 24.6' (7.5m) and comes composed of a tungsten or polyvinyl braid in a shipable case.



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GRAB PRODUCTIVITY BY THE PAWLS

WITH THE **120XP** RATCHET, NOW AVAILABLE IN FLEX-HEAD

The Double-Stacked Pawl™ technology of GearWrench 120XP ratchets gives you 120 positions in every full turn and a super-tight 3° swing arc to turn bolts where others can't. With legendary GearWrench® speed and strength, they're seriously productive tools.

From the leader in hand tool innovation, our best ratchets yet.



PATENT PENDING DOUBLE-STACKED PAWL™ TECHNOLOGY

120XP ratchets deliver speed, access, and 180% of ASME torque performance.*

*Results based on manufacturer test of 3/8" drive 120XP ratchet.

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WAY.**

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New
PRODUCTS **PTEN**



Visually confirm leak sources
CPS Products' UVMINI UV Leak Detector can be added to borescopes, leak detectors and inspection mirrors to visually confirm leak sources. The true UV LED has a proprietary "clip-on" chassis for attachment to most major brands of electronic leak detectors, video borescopes and extension type devices that measure 1/4" to 3/8" in diameter. It produces light that is compatible with all UV dyes without making a really bright blue light, which actually diminishes a light's ability to make UV dye glow, according to the company.

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vehicleservicepros.com

**Scan with
OEM enhanced
functions**

Autel's MaxiDiag Elite, No. MD802, derived from the MaxiDAS DS708, enables users to not only get into the enhanced OBD-II system with Mode 6 access, live data and graphing, but it also allows a technician to scan the entire car, all makes, all models and all modules, according to the manufacturer. The tool can read and clear codes in all powertrain, chassis, body, and information and communication systems with the push of one button. With its print function, the user can provide the customer or the insurance agent a complete diagnosis of the vehicle.



Enter 90 at "e-inquiry" on
vehicleservicepros.com



Turns a drill into an angle drill
Eazypower's Heavy Duty 90 Degree Drill Attachment allows users to get into tight places with drill bits, wire brushes, polishers and grinding discs. It fits into a chuck just like any drill bit would. It tightens easily into any 3/8" drill chuck and includes a grease fitting built in for easy gearbox lubrication. It can be used as a substitute for a complete angle drill.

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vehicleservicepros.com



Lift vehicles

Direct Lift's Two-Post Lift, No. DL9, comes as a two-post automotive lift designed to give hobbyists and small shop owners more options than ever before. The 9,000-lb capacity DL9 features asymmetric arms mounted on symmetric columns. The improved arms and carriages will give users better pickup-point access and allow them to lift either asymmetrically or symmetrically. Features include impact-resistant polymer lift latch covers, internally routed hoses and a padded switch that cuts power when a vehicle reaches maximum height.

Enter 91 at "e-inquiry" on
vehicleservicepros.com

Work quicker in tight spots

The R3130 3/8" and R3150 1/2" 20V Cordless Ratchets from Ingersoll Rand provide the power, portability and access users need for tight access jobs. Delivering 54 ft/lbs of torque, the ratchets have the same durable heads as Ingersoll Rand air-powered ratchets, which can stand up to tough bolts. The patent-pending metal and composite housing, and all-metal gear train help the tool survive repeated drops on garage or plant floors. The compact 20V lithium-ion battery gives technicians freedom from air lines and the versatility to use this tool anywhere.



Enter 93 at "e-inquiry" on vehicleservicepros.com

Keep hands safe and comfortable

Wolverine's Leatherskin Palm Glove combines heavy duty design with comfort and protection for all types of jobs. The gloves feature a 100-percent leather palm with leather padding for added protection and durability. A highly breathable backhand made of 90 percent nylon and 10 percent spandex benefits from being flexible for proper range of motion and a shirred elastic wrist ensures the gloves fit securely.



Enter 94 at "e-inquiry" on vehicleservicepros.com

Accurately and quickly test batteries

The Midtronics PBT-100 Battery Tester can accurately and quickly test batteries, even when discharged. The portable unit is activated by simply connecting clamps to the battery, setting the rating and pressing the test button. In seconds, the PBT-100 will display an accurate test decision. This tool provides a measurement range from 200-850 CCA with no user interpretation required. Users can access the voltmeter mode for testing both the starter and the charging system easily on this tool.

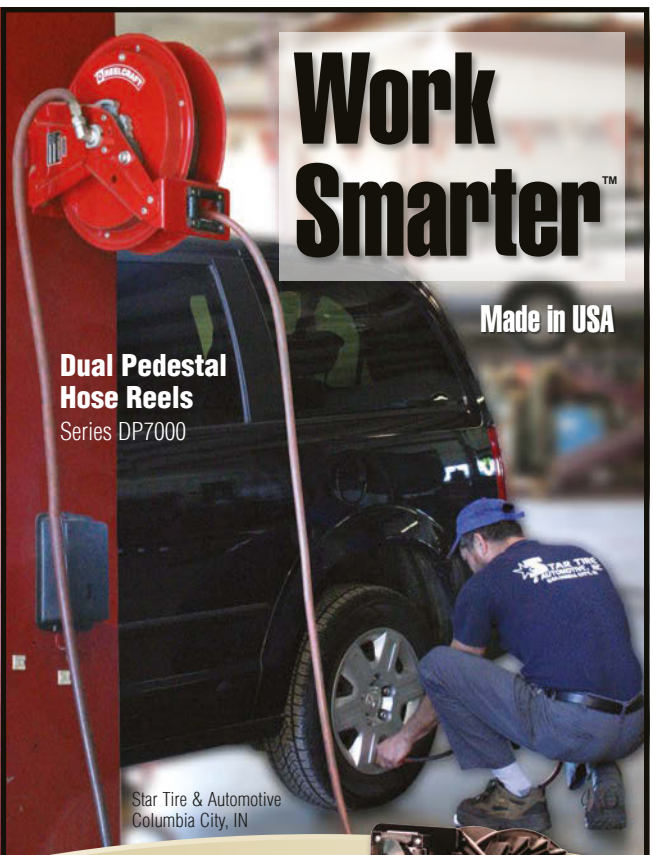


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Work Smarter™

Made in USA

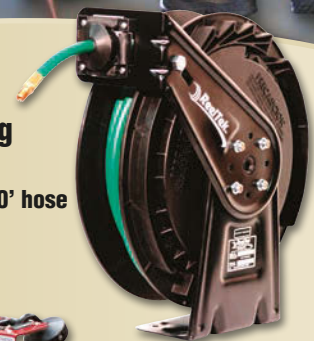
Dual Pedestal Hose Reels Series DP7000



Star Tire & Automotive
Columbia City, IN

Medium Duty > Nitrogen Dispensing Hose Reels

Spring driven for 3/8" x 50' hose
Series RT



New!



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The power pod delivers portable
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lengths up to 60'
Series 7000

*DEF dispensing hose reel
models also available.



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Work under dashboards

The **Snap-on Extra Long 1/4" Drive Ratchet**, No. TLL72, boasts the longest 1/4" ratchet ever offered by the company. Whether in an area high up in the dashboard or deep down in the engine, the TLL72 improves accessibility and productivity by making tough areas much easier to reach. The ratchet also features 72 teeth and dual pawls for minimum swing arc while maintaining maximum strength and durability.

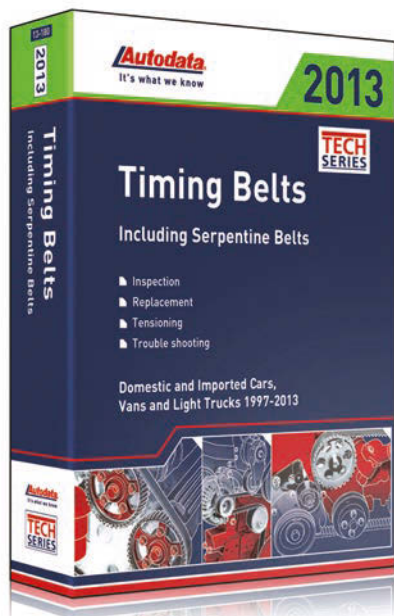


Tighten bolts

SP Air Corp. offers the **3/8" Composite Mini Impact Wrench**, No. SP-7146S. The tool features include a lightweight design with excellent power. It provides a maximum torque of 200 ft/lbs with a twin hammer clutch and has an easy-access forward and reverse button. Its compact size allows it to efficiently reach tight, space-restricted areas. It has an overall length of 5-1/4" with a weight of 2.14 lbs.

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Get the job done faster.



Part # 13-180

Now available - Autodata's NEW Timing Belts manual:

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- Clear illustrations
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- Manufacturers' replacement intervals and labor times
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Service hoses with no mess

Marvac's No Drain "Coolant Barrier" can perform two distinct functions. First, the tool allows the technician to change a cooling system component without draining the cooling system. The tool can hold antifreeze in openings as large as 21mm in diameter. The tool can also pressure test the system for leaks. The tool does this by clearing a "pathway of air" from where the component is removed to where the tool can be attached to the cooling system. The compressed air enters the open port continuously, preventing coolant from draining.

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Enter 99 at "e-inquiry" on vehicleservicepros.com



Store tools securely

Borroughs' Impact Line of Storage Workstations offer a durable and sharp-looking storage solution. This durable toolbox features a 100-year warranty, a reinforced steel frame and a 16-gauge stainless steel, polished top. These toolboxes also come with a maplewood top. It has a large aluminum handle for increased maneuverability and the box itself comes in seven different powdercoat painted finishes. Their ball-bearing drawers can hold 400 lbs of tools. The box's heavy duty, keyed barrel locks coupled with an anti-tilt locking mechanism ensure the security of its contents.

Enter 100 at "e-inquiry" on vehicleservicepros.com



Spot tough A/C leaks

The **Tracerline Vio-Blu dual-head LED flashlight**, No. TP-9357CS, features a high-output True UV LED at one end and a super-bright blue light LED at the other. As a result, it provides optimal fluorescent response and contrast, regardless of the type of dye. This ensures that all leaks glow brilliantly. Leaks can be seen even without using the yellow glasses provided. The blue light LED works with all oil-based dyes, including difficult-to-fluoresce yellow dyes. With an inspection range of up to 25', this compact lamp allows for easy access into tight, cramped areas. Its anodized body stands up to years of use.

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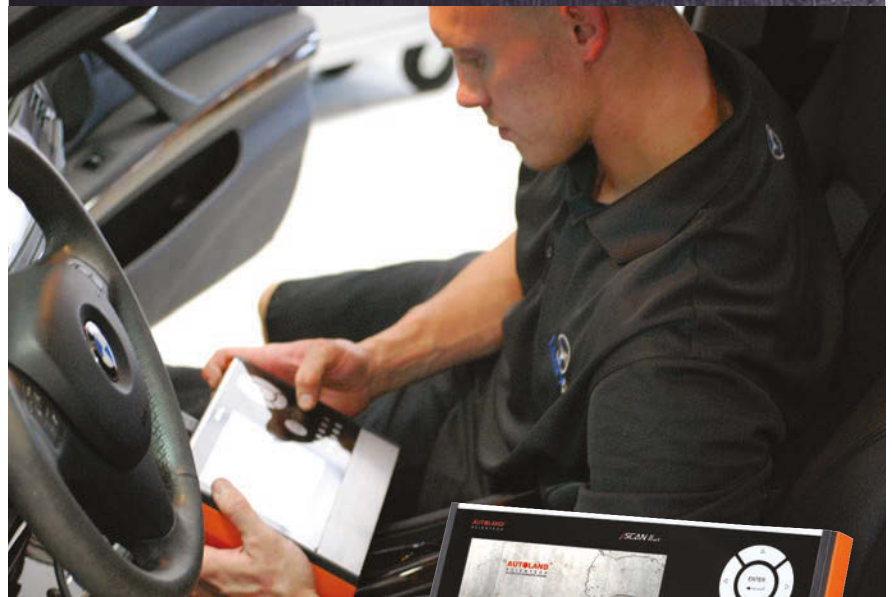
Drill holes without the hose

ACDelco's **12V lithium-ion 3/8" drill**, No. ARD1296, boasts a class-leading 300 in/lbs of maximum torque, according to the company. This tool features a four-pole torque motor, 20 torque settings plus drill mode, a two-speed gearbox, variable speed with reverse and a built-in LED to illuminate the work area. The ARD1296 weighs only 2.73 lbs and comes encased in a rubber boot to prevent exterior damage.

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- New CIP coding and programming capabilities for BMW.
- Programs Keys, Calibrate Steering Angle Sensors, VIN rewrite, Tire Pressure Monitor Sensor ID registration, and Idle Learn.



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Build the right tools for the job

Porter-Ferguson Bite-Tite Frame Gripper clamps and draw bar assemblies, Nos. CL0390 and CL1390, bring increased versatility to any auto body repair operation by letting the repair tech build exactly the right tool set for any job. The CL0390 is a 5-ton clamp assembly with a gripping surface that is 3-3/4" wide by 1/2" deep. The CL1390 is a 6-ton assembly with a gripping surface that is 4-1/4" wide by 3/4" deep. Both kits are available individually and as a one- or two-clamp draw bar assembly. The clamps come with a lifetime warranty and are made in the U.S.A.

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**Brilliance
Is At Hand!**

**Budget
Friendly!**

TRACERLINE[®]
OPTIMAX[™] 400
Leak Detection Flashlight

This new, economical inspection flashlight features a high-output true UV LED that causes dyes to fluoresce far more brilliantly and with greater contrast compared to conventional inspection lamps. It makes all automotive leaks easier to spot, slashes diagnostic time and puts money where it belongs — *in your wallet!*

- > Power comparable to high-intensity 150-watt lamps!
- > Inspection range of up to 25 feet (7.6 m) or more!
- > Works with all universal/ester and PAG A/C dyes, as well as green-colored fluid dyes
- > Compact design easily gets into tight, cramped areas
- > Rugged, corrosion-resistant anodized lamp body stands up to years of heavy use
- > 100,000-hour LED service life

The OPTIMAX[™] 400 (P/N TP-8610CS) comes complete with a lanyard, belt holster, three "AAA" batteries and fluorescence-enhancing glasses.

TP TRACER PRODUCTS
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To learn more, scan QR code
call 1-800-641-1133
or visit www.tracerline.com



Enter 110 at "e-inquiry" on vehicleservicepros.com



**High-polish plating for
corrosion resistance**

The SK Hand Tools 48-piece 1/4" socket set features high-polish SuperKrome plating, providing long life and maximum corrosion resistance. Packaged in a molded plastic case, this set is covered by the SK Hand Tools lifetime warranty.

The set contains:

- 4-1/2" Professional Ratchet.
- 1-1/2" Professional Thumbwheel Ratchet.
- 2" and 6" Extensions.
- Universal Joint.
- 1/4" F-3/8" M Drive Adapter.
- 3/8" F-1/4" M Drive Adapter.
- 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16" Standard Sockets.
- 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16" Deep Sockets.
- 4mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm Standard Sockets.
- 6mm, 7mm, 8mm, 9m, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm Deep Sockets.

Enter 108 at "e-inquiry" on vehicleservicepros.com



Dispense fluids

National Spencer's 12V DC electric gear pump, No. 925, can dispense fluids at a rate of 15 gal per minute. The pump features aluminum, die-cast construction, 1" NPT inlet, 3/4" NPT outlet, sintered metal gears, a 15' power cord, 12-amp draw, 3/4" x 12' anti-static hose, UL-approved 1/7 hp explosion-proof motor with internal limit switch and internal strainer. The pump fits 15- to 55-gal drums and has a duty cycle of 30 minutes on and 30 minutes off. The tool comes with a 34" long suction tube and a 2" threaded tank adapter.

Enter 105 at "e-inquiry" on vehiclesservicepros.com



Channel fluid under high pressure

The American-made **Coxreels HP1125 high pressure hose** can work under an operating pressure up to 5,000 psi. The external fluid path is configured with an electroless, nickel-plated, steel 90-degree, full-flow, NPT swivel inlet and chemical-resistant AFLAS seals to handle the most demanding tasks in any high-spraying circumstance. This hose includes a sturdy one-piece, all-welded "A" frame base for maximum stability, low-profile outlet riser and open-drum slot design to provide a non-crimping, flat, smooth-hose wrap. This high-pressure option comes in both the 1/2" and 3/4" models as well.

Enter 107 at "e-inquiry" on vehiclesservicepros.com

Prevent shop light downtime

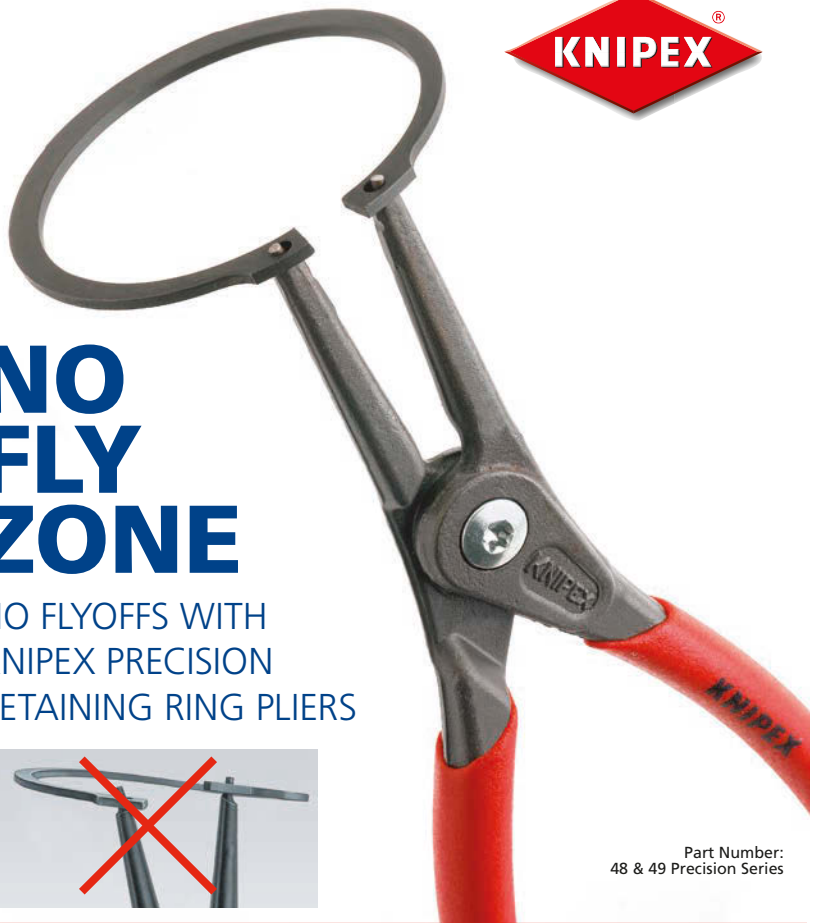
LumenLED's DropLED Pro looks like a classic drop light, but features a shatterproof LED bulb. Packing 1,100 lumens of light at a temperature of only 135 degrees F, this light provides shops a viable alternative to hot "rough service" bulbs. Tests confirm the light's durability, working fine after being hit 300 times on a cinderblock and run over with a forklift. This light uses only 12 watts of power and comes with a five-year warranty.



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To see a video about this one-of-a-kind tool, visit: <http://knipexretainingring.notlong.com> or scan the QR Code with your mobile phone.



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CLIC® Hose Clamp Pliers

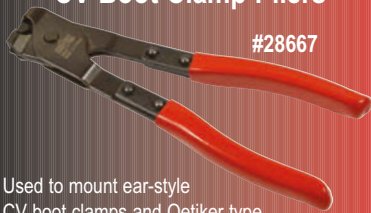


#28665

For mounting and removing Cailau Clic (55, 66, 86) Clic R (R66, R86, R96) and Clic E clamps. Spring mechanism to open pliers systematically after tightening the Clic clamp.



CV Boot Clamp Pliers



#28667

Used to mount ear-style CV boot clamps and Oetiker type clamps. Specifically designed to completely close ear-style boot clamps by compressing each side of the clamp's ear using the forged anvil at the center of the pliers' jaws. The anvil permits a perfect closing of each ear-clamp.

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Product SPOTLIGHT PTEN

HAND TOOLS



Diagonal cutters

The Knipex TwinForce High Performance Diagonal Cutter, No. 73 71 180, features a patented, double-pivot design that allows for superior, two-stage cutting of hard materials. This tool is ideal for repetitive cutting work. The TwinForce easily cuts all types of wire as well as steel tape and cuts 50 percent easier than other high-leverage diagonal cutters of the same length, creating a low-cutting impact on tendons and muscles, according to the company. Perfect for both tough and very precise cutting applications, this tool has forged-in axles that provide a high degree of stability and durability. Forged from chrome vanadium heavy duty steel, this tool is oil-hardened.

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Work on hydraulic fittings

The Westward Ratcheting Combination Wrench features a ratcheting open end that lets you quickly tighten or loosen fasteners that cannot be accessed from top or bottom, such as hydraulic fittings. Made to work in tight spots, the tool has chrome vanadium steel construction with a full-polish finish and meets ASME B107.100 to ensure durability.

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Heavy duty adjustable wrench

Channellock's 30" 830 Adjustable Wrench provides added power and leverage, as well as a jaw capacity up to 3". The wrench has a composition of chrome-vanadium steel for superior durability and performance. The tool provides users with a reinforced joint, with a 1.5" thickness and 6.3" width, as well as premium support behind the wrench's 12-lb steel structure. It is designed specifically for professionals from the oil and gas, fleet maintenance, HVAC, rigging, farming, industrial and commercial industries.

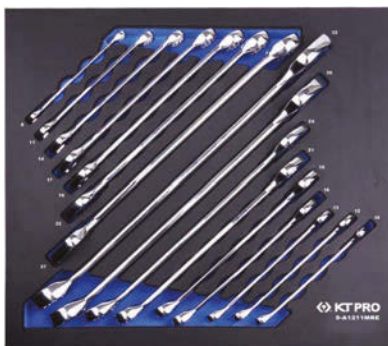
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Interchangeable torque wrench

Genius Tools offers the 3-pc 3/8" and 1/2" Drive Interchangeable Torque Wrench, No. 1434N20. The torque range is 20-200Nm, has an accuracy of +/- 1 percent and a memory of 10 readings. Unit readout can be changed between Nm, ft/lbs, in/lbs and kg/m. The wrench runs on three AA batteries and comes in a plastic, blowmolded case.

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Store tools more efficiently

King Tony America's KT Pro EVA wave foam storage tray organizes tools in a revolutionary way. EVA (ethylene vinyl acetate) comes chemical-, oil- and water-resistant. The tray has a unique wave pattern mold in order to hold tools securely in place. Made to fit standard tool box drawers, this tray has wrench sizes marked on the outside. It comes in 9-, 13- and 16-piece (metric) and 9-, 13- and 14-piece (SAE) varieties.

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Torque limiting ratchet wrench

CTA Manufacturing Corp. offers the **Torque Limiting Ratchet Wrench**, No. 8940, featuring a 3/8" square drive. The wrench installs and removes oil filter housing caps with 25Nm torque specifications. An internal torque limiting device prevents over tightening of caps, which has been a source of service problems. This tool also features an 11-1/2" (290mm) length with soft-grip handle for optimal use in oil changing environments.

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Torque lugnuts

California Torque Products' HQ Wheel Torque Kit contains five preset tire torque wrenches which are factory set and calibrated to the most popular ranges of 65, 80, 100, 120 and 140 ft/lbs, to cover 85 percent of all vehicles' lug nut torque requirements. The set is also offered with the option of adding an adjustable click-style micrometer with a range of 30 to 250 ft/lbs to cover any other additional torque requirements. This set features a color-coding system, over-sized markings and a no-slip ergonomic rubber grip. The industrial-grade quality will meet the rugged demands of the tire shop environment.

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Install different rivets

S & G Tool Aid's 1/4" Super Duty Riveter, No. 19800, easily sets five sizes of aluminum and steel rivets: 1/8" (3.2mm), 5/32" (4.0mm), 3/16" (4.8mm), 7/32" (6.0mm) and 1/4" (6.4mm). The tool features comfortable, long handles for greater leverage. It has metal construction and a simple design with few moving parts to ensure years of service. The riveter has a lightweight plastic bottle to catch rivet stems, nose pieces that thread into handles for convenient storage, and a 2-1/4" nose reach for standard use.

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Product
SPOTLIGHT PTEN



Clamp onto screw heads without slipping

The **Vampire Vamppliers** have a patented design of vertical and horizontal serrations inside the jaws with curved teeth at the nose that bite into screw heads of various shapes without slipping or damaging the surface of the mounted screw. Made of carbon-treated steel, this tool provides the benefit of being easier to use than screw extractors or locking pliers precisely because of the way it grips around truss, round or pan-head screws. Additional features of the tool include its spring-loaded return, wire cutters and ergonomic elastomer handles. It is made in Japan.

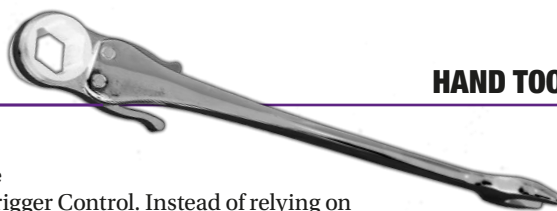
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Remove CLIC clamps

Mayhem's **CLIC Hose Clamp Pliers**, No. 28665, make it possible to mount and remove Caillau Clic (55, 66, 86) Clic R (R66, R86, R96) and Clic E clamps. The shape of the arms benefit from being designed to make gripping easier. The spring mechanism makes it possible to open the pliers systematically after tightening the Clic. Its uses include automobile engines, venting fuel tank, air filter, steering or anywhere else clamps may be used.

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With trigger control

AGS Co. offers the **Stealthforce Bi-Directional Wrench** with Trigger Control. Instead of relying on the "tooth and pawl" design, the Stealthforce uses a cam and clutch-groove design to reduce backlash while allowing a perfectly smooth and silent ratcheting action. The dual pivot-point allows instant direction reversal, with or without actuation of the trigger mechanism. The hex-shaped head also offers maximum contact on worn nuts and bolts. The final result is a multi-directional, smooth-action, thin-profile, zero-slip tool. The Stealthforce comes in a full range of SAE (3/8" to 15/16") and metric (10mm to 19mm) sizes.

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Fit ratcheting wrench in more spots

Steelman Pro's **Metric Double Box-End Deep Universal Spline Flexible Ratcheting Wrench Set**, No. 96746, has all the benefits of a wrench with the addition of a flexible, reversible drive head that has a 180-degree range. This five piece set includes 8mm x 10mm, 12mm x 14mm, 13mm x 15mm, 16mm x 18mm and 17mm x 19mm.

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Reversible, locking ratchets

Durston Mfg. 1/4" (No. RLR4) and 3/8" (No. RLR6) **Reversible Roto-Lock Ratchets** have a 144-tooth ratcheting action that requires as little as a 2.5-degree sweep on the reverse stroke. The locking swivel head rotates 180 degrees and locks in 15 different positions. Sockets and attachments are securely locked by a quick-release button.

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Reach into tighter spots

The **E-Z Red Stubby Quarter Stick**, No. 4S04, comes as a 1/4" combination drive tool that helps the technician get into spots with his sockets he could not reach before. This 4"-long tool has a custom reversible switch, push-button quick-release and 180-degree flexible heads at each end for multiple angles. The tool also features a knurled, low-profile, thumb wheel for extra precision.

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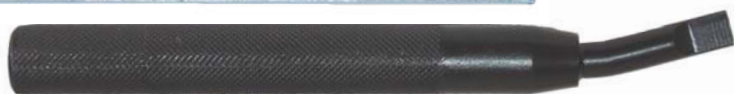
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Product SPOTLIGHT



Reduced cam-out effect

Wera's Kraftform Plus screwdrivers enable a higher transfer of force with less effort and relieve the entire hand-arm system - even in the case of intensive use. The Kraftform Plus range includes the following profiles: slotted, cross recess (Phillips and Pozidriv), Torx, Torx Plus, hexagon socket, hexagon-headed bolts, screws and nuts, square socket, Tri-Wing and Torq-Set. Available in a variety of lengths, from stubby screwdrivers to 250mm blades, the Kraftform stainless and Kraftform Plus screwdrivers feature Lasertip technology to help prevent tool slippage. The extremely rough surface "bites" into the screw head ensuring that the screwdriver is held securely in the screw. As a result of the reduced cam-out effect, much less axial pressure is required to remove the fastener.

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Flexible head ratchet

Koken Tools USA offers the 3/8" Flexible Head Ratchet with New Head Lock Button. The position of Head Lock Button is moved to the side of the joint part to reduce the possibility of hooking the user's hand on the Head Lock button during use, and also when switching the reverse lever.

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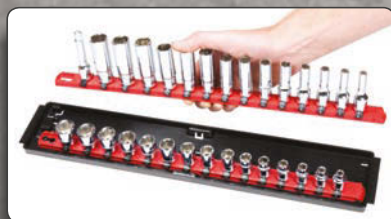
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Tighten fasteners in more spots

The **GearWrench Indexing Combination Ratcheting Wrenches** provide 13 locking positions. When the indexing joint locks, the wrenches offer improved access to hard-to-reach fasteners; when unlocked, a pumping motion can be used to operate the ratcheting head and turn the fastener quickly. The wrench's ratcheting box end requires just 5 degrees to move fasteners, compared to 30 degrees for standard box-end wrenches. Also, if an application prevents the use of the ratcheting box end, then the open end of the combination ratcheting wrench can be used.

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Multi-functional ratchet fits in pocket

The **Witte Ratchdrive multi-functional ratchet**, distributed by Knipex Tools, features a powerful ratchet mechanism integrated into a compact bit box. Small enough to fit inside a technician's pocket, this bit holder with keyless chuck and six high-quality bits in various assortments offers the right tool for multiple applications. Users have easy access and removal of bits from the bit holder when sliding open the Ratchdrive. This tool fits in tight spots and allows the user to customize the type of bits stored in the bit box. An assortment of bits are available, including Phillips, slotted, square, torx and more.

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Universal tool sets

Craftsman's Universal Tool Sets include a 7-piece universal wrench set, 12-piece universal wrench set 1/4" drive, 9-piece metric universal socket accessory set, 19-piece 1/4" drive socket wrench set, 9-piece 3/8" metric universal socket accessory, 3/8" drive universal ratchet and 56-piece universal technician's tool set. All sets come in SAE and metric measurements unless otherwise stated. These tools include a unique universal tooth design that fits six different types of nuts and bolts, so users can tackle the project for almost any type of fastener they encounter. These tools fit 6-point, 12-point, partially-rounded, external Torx, square and spline-shaped fasteners.

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Rounded handle edges improve grip

The SK Hand Tool 15-piece, 12 Point SuperKrome Metric Combination Wrench features SK's high polish SuperKrome finish to protect the tool in harsh work environments and provide maximum corrosion resistance. The SureGrip wrenching design on the wrench box ends drives the side of the hex of the fastener, not the corner, to increase torque and avoid edge breakage, especially on rusted or damaged fasteners. Box ends are also countersunk to help lead the wrench over fastener heads. The open end is angled 15 degrees for greater access. The box end design features a 15-degree offset head for clearance and a smooth arc radius design. Made in the U.S.A.

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Spline drive ratcheting wrenches

Sunex Tools' spline drive ratcheting wrenches come as metric and SAE sets with a lifetime guarantee. These wrenches feature spline geometry to work with rounded fasteners, square drive, 6-point, 12-point, external Torx, aerospace spline and standard fasteners. An open end provides V-groove geometry for secure and fast work. These 72-tooth ratchets work in tight places and are constructed of chrome-vanadium steel for maximum strength and durability.

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Remove snap rings

The American-made Heavy Duty Retaining Ring Pliers, Nos. 1485 and 1486, from Lang Tools, have a spring ratchet locking mechanism that securely holds against ring tension. The tool has heat-treated critical components for improved strength and durability and cushion grips for added comfort. The internal pliers, No. 1485, works on ring sizes 3-1/16" to 6-1/4" (78mm - 159mm). The external pliers, No. 1486, works on ring sizes 3-1/2" to 6-1/2" (89mm - 165mm). The pliers include 0.12" straight tips, and 45-degree and 90-degree optional tips that can be purchased.

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LIVE TRAINING EVENT

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By: Madison College Trainers Dave Heinzen
and Under Car Specialist Steve Wilcox in
partnership with VehicleServicePros.com

What is an Air/Fuel sensor and how do I know when one is bad? Madison College instructors will give you some background on how these sensors work, what the scan tool data is telling you, and how to know when you have a bad sensor. On car demonstrations will feature Honda and Toyota using equipment and techniques to find the problem fast.

For more information, or to register for the event, visit www.vehicleservicepros.com/10927108.

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About our trainers:



Steve Wilcox
Automotive Instructor at Madison College since 2005. Prior experience includes 17 years as a GM tech and over 8 years in independent repair shops.



Dave Heinzen
Automotive Instructor at Madison College since 2001. Prior experience includes 9 years as a tech and 3 years as service manager at independent repair shops.



LIVE
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PBT Stretch Fit Belt Kit

A proven stretch belt installation tool gets high marks.

The PBT USA Stretch Fit Belt Kit, No. 70990, provides coverage for all vehicles equipped with stretch fit belts. This kit contains two tools: an installation tool for all vehicles equipped with stretch fit belts and does not require adjustment to use; and a removal tool that allows techs to easily remove and reuse a stretch fit belt that doesn't require replacement.

The review

Alex Portillo, the shop foreman at Car Clinic, an auto repair facility in Mahopac, NY, has had a stretch belt tool for quite some time now.

Stretch belts are a drive belt commonly found on newer Subarus and Mazdas that need special tools to be serviced. With common A/C compressor failures on Subaru, Portillo found that having the tool for an application like that was more than justification for having the tool.

"Stretch belts are on 2008-and-up Subaru Imprezas and Legacys, and Mazda 3s with 2.3Ls," Portillo said. "There is no way, that I am aware of, to remove a stretch belt on Subaru

without the tool.

"On Mazdas, you really don't need the tool if you don't mind working too hard. You can remove the A/C compressor and manipulate its position without removing the lines in order to get the belt on and snug. You might need a second guy when doing this, so the stretch belt tool works a lot better."

Portillo did have a suggestion on how to improve the tool. "I'd like to see the tool come with the special tool Subaru's need," he said. "On some models, like Subaru, the belt company will send additional tools you need that bolt into the bracket in order to hold the stretch belt remover in place while removing the belt.

"When you work on these Subaru, the stretch belt that spins the compressor is behind the alternator belt, so the tool will remove the alternator's belt, but you'll need another special tool to remove the compressor's belt."

Overall, Portillo's verdict? "Nine out of 10," he said. "This is a tool that serves me well and I'd recommend it to anybody."

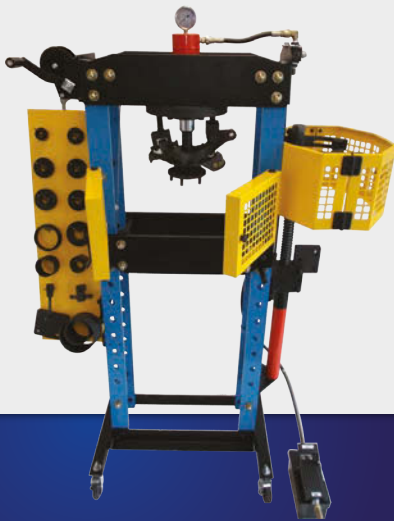
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This kit contains two tools: a universal installation tool and a universal removal tool.

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NAPA 1/2" drive air impact wrench

Lightweight impact wrench boasts power and access into tight spaces.

NAPA's 1/2" Drive Air Impact Wrench, No. 6-1123, includes a twin hammer clutch mechanism and reverse bias motor design to maximize torque at a minimum weight. The tool is capable of up to 1,200 ft/lbs of break-away torque, and up to 480 ft/lbs working torque. This tool features a variable speed trigger for easy speed control, a bottom handle exhaust that directs air away from the user, a one-hand forward/reverse lever, a narrow nose cone design for access to tight spaces, an anti-vibration grip to reduce user fatigue and an optional, extended anvil.

The review

Maverick Mejia, a technician at Car Clinic, an auto repair facility in Mahopac, NY, gets a lot of the "dog work" while the lead technician does all of the highly technical tasks. What does that mean? A lot of tires, brakes, oil changes and the like. Needless to say, he uses a 1/2" impact wrench all day.

When handed a 1/2" impact to call his own, he was happy that he did not have to borrow the shop's or his co-worker's. Mejia was very impressed by how powerful, yet comfortable, the tool was.

"It's more convenient because it's smaller than many impact wrenches out there," he observed. "It is not a heavy tool, and it really removes lug nuts quickly." Being smaller than other tools, Mejia speculated about its long-term reliability. "I haven't dropped it really hard yet, but it feels like a solid tool," he said.

"It does have a two-year warranty," observed Mejia. "They wouldn't (offer a warranty) if this tool couldn't be both light yet reliable."

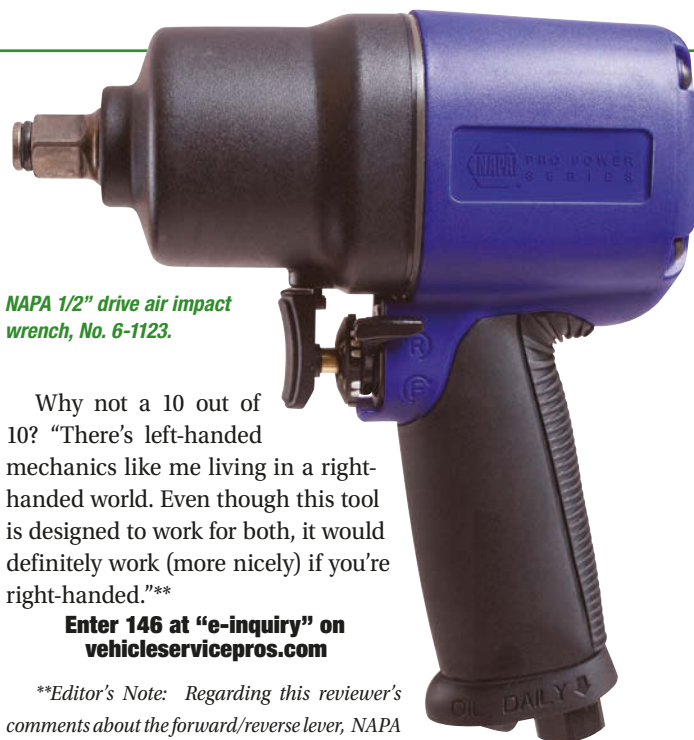
Mejia's favorite thing about the tool? It's brute strength. While still wearing a pair of 8-mil gloves by mistake, "(the wrench) threw my hand off and ripped the glove," he remembered. "It's pretty strong. I'm not going to lie."

A reason why Mejia comments on the sheer strength of the tool is that when adjusted to its top setting, it appears to really exhibit the 1,200 ft/lbs of breakaway torque. "You can adjust the torque on it between one, two and three, but for my use I keep it on three," he said.

Mejia also noticed that the tool had a very quiet, "almost silent" operation.

He had one design improvement in mind. "I'm left-handed, so the forward and reverse switch gets in the way for me," Mejia said. "It should be in the back. That would make it easier to use."

"I'd rate this tool 8 out of 10. It works exactly as advertised, which is really cool," said Mejia.



NAPA 1/2" drive air impact wrench, No. 6-1123.

Why not a 10 out of 10? "There's left-handed mechanics like me living in a right-handed world. Even though this tool is designed to work for both, it would definitely work (more nicely) if you're right-handed."**

Enter 146 at "e-inquiry" on vehicleservicepros.com


***Editor's Note: Regarding this reviewer's comments about the forward/reverse lever, NAPA responded, "All NAPA Pro Power impact wrenches have an exclusive flip forward/reverse lever for left- or right-handed operation."*

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Portillo removes a stubborn pulley nut using the air ratchet.

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power and precision that's key when working in close quarters. The tool can be greased via a fitting in the yoke.

The review

Alex Portillo, the lead technician at Car Clinic, an auto repair facility in Mahopac, NY, had all but given up on his 3/8" air ratchet. Even though he paid good money for a "name brand" one, that ratchet simply did not cut it. It was too weak to break bolts and it often was just a waste of time to even pull out. Now he had the opportunity to test two different ratchets to see if they would be an upgrade to his arsenal.

The nut-busting torque made all the difference in his book. "The air ratchet is light and much more powerful than my

other air ratchet," noted Portillo. "On the box it says the MT2854 has a peak torque of 100 ft/lbs, about twice that of my other air ratchet. It makes all the difference in my opinion. It has a ton more power and it can loosen stuck-on bolts without manually wrenching the bolt out."

Matco's air ratchet, with its smaller and higher located trigger, also interested Portillo. "The Matco one is well proportioned; it feels good in your hand. I like its trigger," he said. "It is sensitive so that I can adjust torque for different applications, but not too sensitive. A lot of air ratchets have a long trigger in the bottom. For example, the cordless Matco one has this. To be honest, I prefer the smaller trigger. It reminds me a lot of the 'Z' button on my

(Continued Page 60)



Portillo demonstrates how the cordless ratchet can get into a tight spot.

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old Nintendo 64 controller. It gives me a feeling of greater control.”

Many technicians shopping around for power tools may be debating to wait until electric tools become more powerful, or to buy a set of both. Portillo appears to be sold on a dynamic duo.

“Personally, I think it's an advantage to have both tools. The cordless ratchet, because it has no hose, fits into tight spots easily,” observed Portillo. “It does not have the same power as the MT2854,

though. To save time, I use the MT2854 to loosen everything and the cordless one to put everything back together. Using them in tandem works great.

“As a side note, that battery really does charge to full capacity in about an hour,” Portillo added. “I don't know how they do it.”

He rated both tools a “9 out of 10.” He did notice that the Matco tools were a little bit longer than the air ratchet he was used to. “The drawback of both tools

is that they are a couple centimeters longer than the other air ratchet I'm used to,” said Portillo. “To be honest, this is not really a big deal, it is a very small difference, but it is worth mentioning.”

Overall, he was impressed. “These tools have permanently earned a space on my tool cart,” Portillo said. “I'm selling my other air ratchet tomorrow.”

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Bradshaw's big toolbox is the size of a car.

Owner:
Scott Bradshaw
CV Autoworks
Thousand Palms, CA

Scott Bradshaw

A shop with both a small time and big time box.

Toolboxes carry a lot of meaning at CV Autoworks in Thousand Palms, CA. Scott Bradshaw, owner, followed in his father's footsteps by becoming a technician. His father, a tech for a police department, was so appreciated that they gave him a set of golden tools after 20 years on the job.

Scott looked up to his father. In fact, at age 14 Scott made his first tool purchase on a Snap-on truck in order to buy his dad a Christmas gift.

Now, many years later, Scott has his own repair shop and he hasn't forgotten



Besides medium duty trucks and passenger cars, Bradshaw also does restoration work.

his father's influence on his choice of a career. The golden tools from the police department and other gifts given to his father now reside in a mini toolbox.

That mini toolbox has a father/son story of its own. Scott was given the box as a gift from his Snap-on manager. His son then asked him for it because he wanted to have one like his dad. When Scott's son grew up, Scott "inherited" the mini toolbox. He put it in the front office of his shop and now uses it to store mementos.


"The tiny toolbox is fully functional," Scott explains. "This was my son's. He had to have the same toolbox that his dad had, but in miniature."



Scott Bradshaw proudly shows his small-time box.

Just like the small-time box, Scott's big-time box also carries a father/son theme. When his regular toolbox fell apart because it was overfilled with tools, the manufacturer stood by its lifetime warranty and gave him a refund. Scott dreamed of having a large white toolbox modeled after his father's old box. Kyle Rounds, Scott's Matco Tools salesman, offered him the opportunity to make his dream a reality.

The new box is worth \$20,000 and may need a tow truck to move it, but it was custom-built and colored to be just like Scott's father's box. All of the shop's hand tools and equipment are stored in this large Matco box. Even though the Matco box is white, it is in immaculate condition because he has his employee clean it regularly.

So, the toolboxes at CV Autoworks are more than merely a big-time and small-time toolbox. They are a testimony to three generations of Bradshaws in the automotive repair industry. And if the size of Scott's white Matco toolbox portends anything, things will keep on getting better and bigger. 

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