

PTEN

Professional Tool & Equipment News

The Independent Tool Authority

SNAP-ON® TOOLS ISSUE

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VERUS® EDGE DIAGNOSTIC PLATFORM

Gain fast, easy access to expert information and technical bulletins straight from the manufacturers anywhere in the service bay
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VERUS Edge

VERUS[®] EDGE FULLY LOADED

Introducing the new, fourth-generation VERUS[®] Edge. Built-in OEM TSBs, your favorite web resources and plenty of room to save all the data and applications you want. Boot-up from cold in just a minute and from Ready Mode in an incredible five seconds. A capacitive touchscreen that's sensitive to your every gesture. All in a slim, compact housing with a lot less bulk — and a lot more style.

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Welcome Note



Sharing our story

For 95 years, Snap-on has been driven by its pursuit of innovation and its connection with customers.

By Tom Kassouf, President, Snap-on Tools Group

It is an honor for Snap-on Tools to bring you the tools, diagnostics and technologies featured in this special edition of *PTEN*. We've been providing valued productivity solutions to professional users performing critical tasks for 95 years. Our rich history and success can be attributed to our deep relationships with our customers, and an understanding of their work.

Innovation and customer connection have driven our success since 1920. We observe technicians in the workplace, listening to their specific needs; and design innovative, reliable and repeatable tools that have a positive impact on their workflow. For example, to develop our new S6229, 3/8" Drive Steering Rack Socket, Snap-on Tools' franchisees listened to their technician customers, bringing their suggestions to our engineers who designed a tool making the task of replacing a steering rack O-ring easier. Previously, the entire steering rack on certain vehicles had to be removed to complete the repair; now the S6229 allows the user to reach the seal without having to remove the rack, saving time and money. This is one of many examples of how Snap-on's

deep customer connection results in advantages for vehicle technicians.

These connections are the result of the over 4,800 Snap-on Tools franchisees worldwide who take great pride in the relationships they build in their routes. The concept of selling direct to customers in their place of business dates back to the beginning of the company. But the customer franchisee relationship goes beyond selling tools; it also includes service behind the sale and the offering of flexible credit options from Snap-on Credit, allowing the technician to "earn now and pay later," a concept that Snap-on introduced back in the 1930s.

When everyday use meets the high intensity demands of the track, Snap-on is up to the challenge. You'll see Snap-on tools in the pits of many of the best in motorsports. The rigors of the garage may differ from the track, but it's important in any setting to have the tools and diagnostics to get the job done. Snap-on Diagnostics platforms and software are the world's fin-

est in reducing repair time and costs. Our cutting-edge technology has changed the way techs analyze problems and perform service. We'll tell you more about both in this special edition.

Behind the innovative Snap-on products used in repair shops and facilities across the country are thousands of associates who apply their craft every day to produce the finest tools in the world. They work in communities, small and large, across America. We'll share our manufacturing story and tell you more about the Snap-on footprint throughout the country. These associates are an essential part of the dedicated team of Snap-on associates and franchisees — from design to production to delivery — who are proud to make your work easier.

We hope you enjoy this special edition of *PTEN*, and we thank you for your continued support of Snap-on Tools. The first 95 years were just the beginning.

Best to you,

Tom Kassouf, President
Snap-on Tools Group



▲ Relationships with customers, and an understanding of their work, is of critical importance to Snap-on.



THIRTY DEGREES OF UNINTERRUPTED SWIVEL ACTION.

AND THAT'S NO BULL.

Snap-on® sockets give you a full 30° of uninterrupted swivel action for superior control in places other sockets just won't go. You get the power of the Flank Drive® wrenching system, which grips fasteners on the flats for 20% more turning power. And each socket features the unmatched durability of laser-welded pivot pins for a lifetime of smooth performance.

To learn more, talk to your Snap-on Representative or visit www.snapon.com



Swivel impact extensions available in a 2-piece 3/8" drive set.

Swivel Extension Set:
202IPFX

Swivel Socket Set:
207IPFM



Snap-on

The fastest path to fixed

Snap-on SureTrack serves as the ideal tool to quickly and accurately provide a repair diagnosis.

When customers pull their vehicles into the shop, they expect an expert to have the answers. “Do you know why my car is making this noise?” “Why is warm air coming out when I turn on my A/C?” “What does this light on the instrument panel mean?” Identifying the exact problem and right solution can be more time-consuming than the repair itself. Snap-on SureTrack is the perfect tool for the tech looking to provide an accurate repair diagnosis for a customer in the shortest amount of time.

“SureTrack is an online informational tool designed to help technicians improve their productivity and the quality of service experience for shop customers. With SureTrack, techs save time finding the answers and making the repairs,” says Mark Schaefer, director

of marketing for Snap-on Diagnostics. “Whether the tech is fresh out of school or has 20 years of experience, this tool is designed to provide dependable solutions to repair problems.”

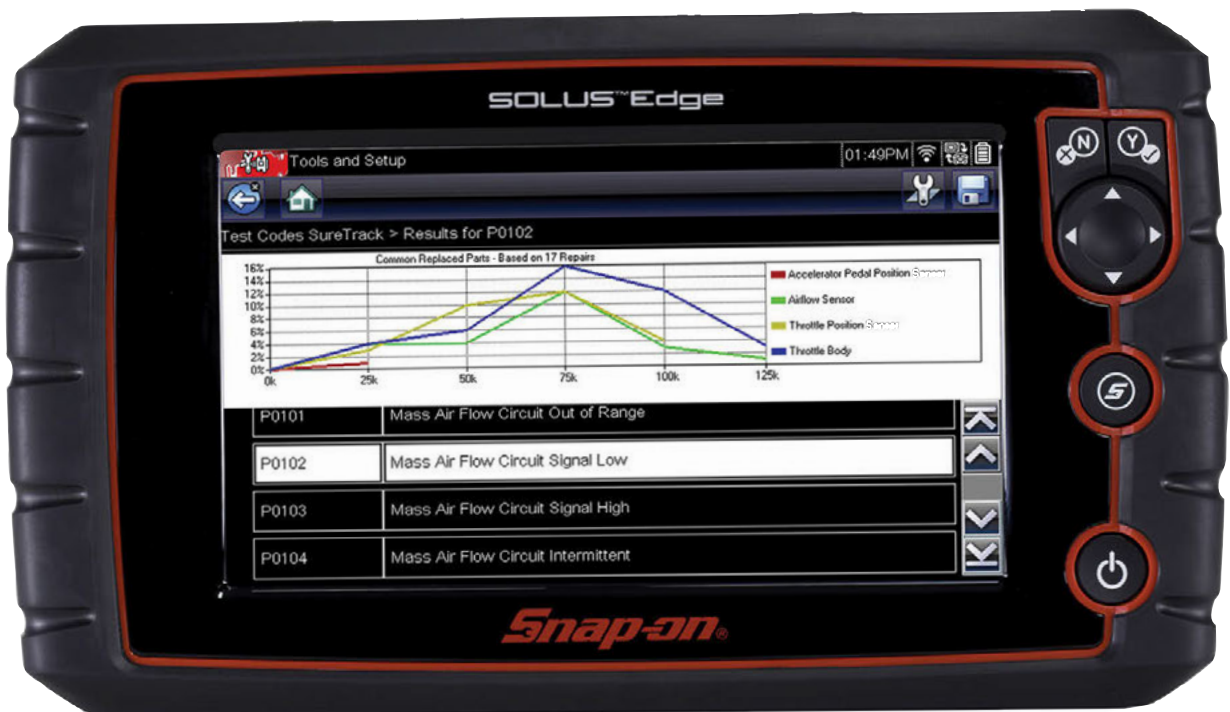
Access to this intelligent system directly from the scan tool eliminates the need to rely on multiple sources, on the phone and online, for the answer. SureTrack is more reliable than online forums and more complete than repair hotlines because it is based on completed repair orders. This puts vehicle-specific Real Fixes and verified parts replacement records collected from millions of successful repairs in the technician’s hands, right at the vehicle.

“The repairs are shown in a complaint, cause and correction format that is easy for technicians to follow. SureTrack shows which parts were replaced to repair

symptoms and vehicles like the one in your bay. It is not a chat session or a blog giving instructions on how you might go about fixing something,” says Schaefer.

SureTrack is vehicle and problem specific and features common replacement parts data, troubleshooter tips and real fixes. The system is designed to provide techs with a “been there, done that” outlook when dealing with the toughest repairs. With SureTrack, the car sitting idle in the service bay can be fixed with this surefire way to save time, giving techs confidence in their diagnosis and solution.

SureTrack is available inside the Snap-on VERUS-family, VERDICT-family, SOLUS Edge and MODUS Ultra diagnostic tools and ShopKey Pro Repair Information System. To learn more, visit diagnostics.snapon.com/suretrack. **PTEN**



▲ SureTrack is designed to provide dependable solutions to repair problems.

IT'S WHAT'S INSIDE THAT MATTERS

Sure, Snap-on® diagnostic tools are the best in the industry. And they're all backed by a comprehensive customer support program, online training solutions and an extended warranty.

But what makes them truly special is what goes into them, both when they're built and over the life of every tool. Keeping the software on your diagnostic tool upgraded is the best way to make sure you always have the latest codes, tests, tips and data to handle any challenge that rolls into your bay.

When you buy a Snap-on diagnostic tool, you get more than just great looks, rock-solid construction and intuitive design. You get unbeatable performance, out of the box and miles down the road.

That's **confidence from day one.**



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An all-inclusive diagnostic tool

The Snap-on ETHOS Tech scan tool is designed to make diagnostics accessible to technicians and offers OEM-specific coverage for 46 domestic, Asian and European makes.

Across the board, from domestic to import models, automobile makers are producing vehicles with advanced technology to suit customers' everyday driving needs and concerns. Parallel parking assistance, forward collision warning and Wi-Fi systems are just a few of the many technology features available in today's vehicles, requiring new diagnostics solutions.

But it's not just the new and complex driving the need for sophisticated repair equipment. Without a diagnostic tool, a technician is unable to complete more than half of all jobs typically performed - even common maintenance like oil changes. Most full-function diagnostic tools can be out of reach for some technicians, leaving them to wait to borrow one from the shop or another technician, wasting time and losing money.

Snap-on Diagnostics is matching the latest advanced technology trends with the new, innovative ETHOS Tech full-function scan tool, making diagnostics accessible to all technicians. The full-function diagnostic tool includes a comprehensive three-year support program that automatically delivers new software upgrades and extended warranty service, ensuring that technicians always have the most current capabilities and no added expense.

ETHOS Tech provides premium performance by offering techs codes, live data graphing, bi-directional controls, functional tests, relearns and adaptations. ETHOS Tech provides OEM-specific coverage for 46 domestic, Asian and European makes with the ability to provide mechanical and technical insight on 76 vehicle systems, including new technologies like TPMS, hybrid power,

steering angle sensor and park assist.

The tool's compact design features a four-way keypad and 5.6", color touchscreen display. Technicians can compare results side-by-side by viewing up to seven live data points or compare up to four in graphing mode. The zoom feature provides a more detailed view of graphs, allowing users to gain insight on the specific service issue or monitor vehicle performance. An innovative time-saver, ETHOS Tech eliminates the need for technicians to manually enter the VIN or vehicle ID on compatible vehicles. With a quick boot-up time of only 10 seconds, this dynamic diagnostic tool powers straight from the vehicle for techs to maintain a constant workflow. The internal batteries provide power for reviewing data even when the tool is disconnected from the vehicle, offering results in as little as 30 seconds.

ETHOS Tech includes OBD-II tools for checking readiness monitors, emissions-related codes, current data, freeze-frame data, onboard controls and permanent codes. Technicians can read, record and review live data for quick reference or create custom data lists to speed up the display rate and compare data points. Other benefits include service monitor data and reset maintenance lights.

Technicians can download software upgrades directly from the web with access to online support. Experienced Snap-on Customer Care Representatives are also available and can be reached on the Customer Care Hotline or via email.

ETHOS Tech is definitely a must-have diagnostic tool. For more information, contact a Snap-on franchisee, visit diagnostics.snapon.com/ETHOSTech or call toll free 800-944-3877. **PTEN**



▲ ETHOS Tech offers techs codes, live data graphing, bi-directional controls, functional tests, relearns, adaptations and more.

ETHOS Tech perfect for techs of any experience level

Two technicians discuss their experiences using Snap-on's full-function diagnostic tool.

The Snap-on ETHOS Tech is a full-function diagnostic tool offering a three-year support program, including an extended warranty and all software upgrades, available online, at no extra charge. This all-inclusive tool is the most compact in the Snap-on line and is perfect for technicians of all experience levels. With OEM-specific coverage for 76 systems

on 46 domestic, Asian and European makes, ETHOS Tech offers features traditionally found only in more advanced, higher-priced platforms.

Snap-on spoke with two busy technicians, Patrick Jeffers and Ezequiel Pagan, to seek their impressions of the new ETHOS Tech. Jeffers, a technician in a major auto repair chain, purchased ETHOS Tech several months ago and is impressed by its ability to make his job easier while working on various vehicle makes and models.

"I get pretty busy, but I can always count on my ETHOS Tech to do everything I need it to do. With different types of technical issues coming through the door and into my work bay, I needed a diagnostic tool with bi-directional capabilities and software functions comparable to a factory scan tool," says Jeffers.

Although newer to ETHOS Tech, Jeffers has been working as a technician for many years and is quite familiar with the diagnostic market. Jeffers says the tool's large, full-color touchscreen makes it easy to use and read while working in a busy shop. The extended warranty and software upgrades were a selling point for him.

"Snap-on makes very good tools, so I knew that adding the ETHOS Tech would be a smart purchase," says Jeffers. "I was really impressed by the upgrade feature. Not only can I get jobs done

easier and faster with ETHOS Tech, but also when it's time for me to get the new software upgrades, all I have to do is go to the Internet, and it's done. The ETHOS Tech is a great tool and I am completely satisfied with my purchase."

Pagan purchased his ETHOS Tech recently and uses it multiple times per week. Pagan, who works in the service department of a North Carolina dealership, says his ETHOS Tech provides the coverage he needs to get the job done. He also likes the compact design and ETHOS Tech's quick boot-up time of 10 seconds.

"I use ETHOS Tech for all makes. I'm one of the younger techs, so I knew I needed a diagnostic tool that would help me get my jobs done accurately and efficiently," says Pagan.

Pagan has been building his tool collection since tech school and says a majority of his tools are Snap-on because of the durability and reliability of the products. When it was time to purchase a diagnostic tool, there was no question about which brand to choose.

"The ETHOS Tech is very fast and straightforward. Whether I'm using it for recodes or diagnostics, it provides really good data for every model, it's easy to use and it clears codes quickly," says Pagan. "The ETHOS Tech was a great investment for me because of the amount of work I do at the dealership. For the price, you cannot beat the three-year warranty and all the features, so I definitely made the right choice."

For more information about ETHOS Tech, see a Snap-on franchisee or representative, visit diagnostics.snapon.com/ETHOSTech or call toll free 800-944-3877. You can also learn more about ETHOS Tech in this special Snap-on edition of *PTEN*. **PTEN**



Innovation brought to life

How one Snap-on franchisee saw the potential in one of his customer's makeshift tool solutions.

The connection Snap-on shares with its customers is tangible. It is a connection based on millions of observations of how work is done. Such was the case when Snap-on franchisee Todd Gaulke noticed one of his regular customers was buying more and more tools to create a prototype tool of his own to make a Technical Service Bulletin (TSB) repair.

Gaulke's customer, Cody Olszewski, was in a dealership servicing certain models in which power steering O-rings were being replaced. To complete the repair, the TSB indicated a repair time of around 2-1/2 hours. Time is money, so Olszewski was using his ingenuity and skill as a technician to devise a way to do the repair safely and faster.

"He started cutting then grinding down implements to make them work

to his benefit," Gaulke says. "I could see the potential in what he created. The two-hour-plus job was taking him less than 55 minutes with his prototype. So, I contacted Snap-on and said, 'We need to get this into the hands of techs as fast as we can.'"

After Olszewski submitted his idea to Snap-on, a team from the company visited the dealership, discussed his work and photographed the new tool he devised. Kyle Neubauer, a Snap-on engineer, says, "The TSB impacted thousands of vehicles, so we saw this tool as being of great value to our customers. After refining the customer's prototype, we were able to get the Steering Rack Spanner Socket, No. S6229, to our franchisees quickly. It's a new design, one we didn't previously offer."

Snap-on receives hundreds of recommendations for hand tools every

year. These ideas are further developed by a team of Snap-on professionals, including engineers, who determine the design and demand of the potential tool. If the tool ultimately becomes a Snap-on product, the customer receives a check for the inspiration behind it.

"Everybody in that shop is like, 'Hey, I've got to make a tool!'" Gaulke says after seeing his customer receive a check for his idea.

"But Snap-on has to see the potential in it. I've been fortunate to see several ideas come to life. I tell my customers to show me, and if there's a market for it, it happens."

Learn more about Snap-on's strong customer connection by talking with a franchisee, or visit the Snap-on website. Your idea maybe the next great Snap-on tool. **PTEN**



▲ One of Snap-on franchisee Todd Gaulke's customers, Cody Olszewski, had the foresight to help develop the Steering Rack Spanner Socket, No. S6229.

UNFATHOMABLE POWER. UNCHAINED.

INTRODUCING THE CT761 14.4V LITHIUM CORDLESS IMPACT WRENCH.

With 120 ft. lbs. of torque, the CT761 is 71% more powerful than before. And 0% bigger. Never before has such a compact impact wrench packed this much brute force. Which means you not only have the accessibility to reach the tightest spaces, you have the power to get the job done. To find out more about the entire 14.4v MicroLithium family, talk to your Snap-on Representative. Or visit snapon.com/unchained.

Snap-on

Tools of Triumph

A traveling tribute to the tools and techs that triumph every day

The tour offers an opportunity to learn about new products, engage with a traveling Snap-on showroom and show off skills.

Designed from the ground up to give technicians across the country a chance to immerse themselves in all things Snap-on, the Tools of Triumph tour is the ultimate traveling Snap-on experience — an all-new interactive tribute to the tools, techs and truths that make Snap-on such an exciting, enduring brand.

The groundbreaking tour provides an exclusive opportunity to show off your skills, learn about new products and engage with a traveling showroom

of Snap-on hand tools, tool storage units and diagnostic equipment in a setting you just can't find anywhere else.

Among the most heart-pumping attractions are 10 larger-than-life areas showcasing the latest, greatest and most innovative tools Snap-on has to offer:

THE GARAGE

Much more than just any old garage, this is the garage of your dreams. The garage all techs aspire to own. Take a guided tour through two unique Snap-on garages so

cool you might have thought they weren't even possible.

SNAP-ON SPEEDWAY

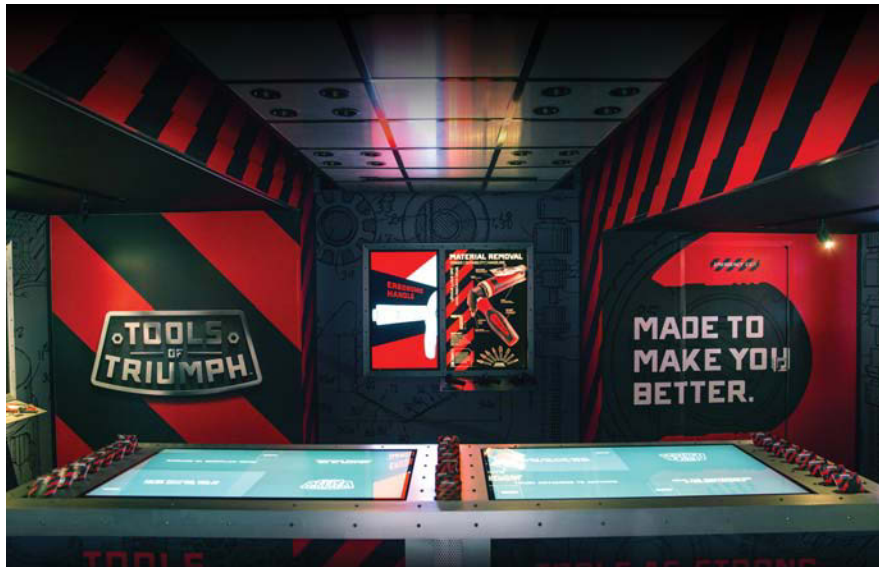
Sit down and strap in as Snap-on pits you against other drivers to see if you're just as good behind the wheel as you are under the hood.

THE COMMAND CENTER

Take command by configuring your perfect tool storage unit, exploring the capabilities of Snap-on tire changers



▲ The Tools of Triumph tour is the ultimate traveling Snap-on experience.



▲ The Tools of Triumph tour first hit the road in June 2015 and will be making appearances across the United States in the coming year.

THE TOOLS OF TRIUMPH CHALLENGE

A timed competition that lets you test your skills using a selection of Snap-on tools on a custom-built replica of a Gen-6 NASCAR Cup car: compete against techs from your shop, in your state and across North America.

A true celebration of performance, toughness and passion, Tools of Triumph is living, breathing, traveling proof that the best things in life never go out of style. It's a great opportunity to share your knowledge, pride and dedication with family and friends while taking in the storied history of Snap-on through decades of the company's most popular equipment, racing vehicles and custom memorabilia.

The show first hit the road in June 2015 and will be making appearances across the country throughout the coming year. For all the latest details, including upcoming locations, dates and descriptions of everything on the tour, visit the official website (www.toolsoftriumph.com) — and check out the #toolsoftriumph hashtag on Facebook, Twitter and Instagram. **P**TEN

and wheel balancers, and compare and expand your tool set with the Snap-on Set Building Program.

DEMO ALLEY

See what sets Snap-on apart from the competition through animations and hands-on demonstrations.

THE PROVING GROUNDS

Snap-on shows you how its tools help technicians just like you triumph every day, detailing the features and benefits of the most in-demand Snap-on products in the world.

THE SHOWROOM

If you've ever wanted to see the future of automotive tools, you won't want to miss this display of the latest innovations in the Snap-on line of tools.

THE INFIELD

Get your hands on some of Snap-on's latest, most innovative tools and see how they perform in the real world.

WALL OF TRIUMPHS

A tribute to dedication, passion and resolve that shines a spotlight on profes-

sionals and adventurers who have used Snap-on tools throughout history.

VICTORY LANE

Take a stroll down Victory Lane and see the Cruz Pedregon Snap-on NHRA Nitro Funny Car, the Snap-on Penske Racing Nationwide Series Car and the popular Snap-on Chopper.



▲ Attendees can show off their skills in the Tools of Triumph Challenge.




Model for success

Austin-based Snap-on franchisee Shane Gindrup is proud to deliver the highest quality tools in the world.

For 95 years, Snap-on Tools has understood the importance of building strong relationships with its customers. The primary caretakers of these relationships are the more than 4,800 Snap-on Tools franchisees worldwide who, week-in and week-out, make it their business to build upon the legacy of superior quality, service and innovation that has defined Snap-on over the decades.

One of those franchisees is Shane Gindrup, whose route is just north of Austin, Texas. After 18 years doing everything from stocking his van, to

planning his day, to keeping up on the latest products and promotions, Gindrup knows a thing or two about what sets this business apart from the others. Prior to joining Snap-on, Gindrup was a technician at a GM dealership and later worked as an employee for another Snap-on franchisee. “I could immediately see the potential and that this was going to be my career,” says Gindrup. He is someone who doesn’t do anything halfway; he’s either 100-percent committed or not at all. He recognized the opportunity in front of him, and he and his wife decided it was time



“I could immediately see the potential and that this was going to be my career.”

— Shane Gindrup

to, in his words, “jump in” when a route became available near his home.

Fast forward to today. His business has been thriving since his first year, and in 2014, he was ranked No. 9 among Snap-on individual franchises and No. 9 for multiple franchise owners in the U.S. He cautions that his accomplishments didn’t happen by themselves. There were numerous people who had a role in his success. “It takes a team to make a franchise business function,” says



▲ Austin, Texas-based Snap-on franchisee Shane Gindrup.

▲ **Every August, more than 8,000 franchisees attend the annual Snap-on Franchisee Conference.**

Gindrup. He credits his wife, Kelli, first and foremost, for taking the leap with him and supporting him all along the way. He recognizes the importance of the entire Snap-on support team that helps him continue to grow his business with programs, products and experiences that his customers appreciate.

One of the unique elements that makes Snap-on a one-of-a-kind franchise business is the annual Snap-on Franchisee Conference. Held at a destination in the U.S. every August, more than 8,000 franchisees, their employees and family members, Snap-on associates and suppliers attend the three-day conference that is part product expo, part seminars and part business meeting. While it also features popular music and entertainment acts,

perhaps the most important aspect is the time spent with other franchisees from all over North America. It's something that's so important to Gindrup, he never misses it and has made it mandatory for all his employees to attend.

Running multiple franchises makes for some very busy days, but his family provides significant support. Gindrup's wife handles payroll and is the bookkeeper. Their five daughters have always been involved in one way or another. Now, he's counting on family to take on even bigger roles in the business. "One of my sons-in-law came on as a franchisee sales assistant last year and is doing a great job, and one of my daughters is going to become a franchisee sales assistant."

The most gratifying thing for Gindrup is to see others flourish and experience the type of success he's had. He was recently elected as a member of the Snap-on National Franchisee

Advisory Council (NFAC.) As a member, he helps make an already strong franchise system even stronger. "The NFAC is an opportunity for management to see the world through our eyes and make our company better for everyone. Of special interest to me is making sure that we can help more franchisees out there become multiple franchise owners, if that's what they want to do. I just want to help share what I've learned from my experiences and hopefully it will help someone else."

Gindrup doesn't seek attention, but as a proud, successful franchise owner, he still has lots of ambition saying, "It's pretty amazing. I live in a tiny, rural town; and I'm number No. 9 in the country. But you know, I'd rather be No. 1 than No. 9."

Visit us at snaponfranchise.com to begin the discovery process and determine if Snap-on Tools is the right fit for you. **PTEN**



STOP DREAMING ABOUT YOUR PERFECT CAREER

Grab the wheel and find out what it's like to be in control of your own future. If you've got what it takes to run your own business, now is the time to learn more about the Snap-on Tools franchise opportunity:

Top Tool Franchise 2015 Entrepreneur Franchise 500

Number 1 tool brand in the world

Extensive initial training

Financing available through Snap-on Credit

Proven business model



New Products



Built-in Wi-Fi and wireless scan module

The Snap-on VERUS Edge, No. EEMS330, provides fast, easy access to expert information and features a built-in Wi-Fi and wireless scan module for the freedom to work anywhere in the bay. Thin and lightweight with a user-friendly tablet-style design, the high-resolution display on the VERUS Edge also serves as a touchscreen and provides techs with OEM-specific coverage for over 40 domestic, Asian and European makes and dozens of vehicle systems. In just five seconds, the VERUS Edge is powered up and ready to go with an extended five-hour battery life delivering the latest information and technical bulletins straight from the manufacturers.



Install and remove ball joints with ease

Covering the vast majority of current domestic SUVs, light trucks and passenger cars, the Snap-on Master Ball Joint/

Universal Joint Press Set, No.

BJP1, helps technicians install and remove ball joints with ease. The press frame features a large throat for the increased number of ball joint applications and vise mount capability for U-joint applications. Designed with a "locking" cup retention system, any technician can do the job easily without an extra set of hands. The BJP1 can be used for applications on many Ford, GM, Dodge/Daimler-Chrysler and Jeep models, in addition to many other applications. An easy-to-use application chart is included, and the entire set comes in one compact, easy-to-store blow molded case.

POWERED BY **Snap-on**



Secures tools from up to 75' away

For additional protection in the shop, the Snap-on ECKO Keyless Remote Locking System is available exclusively as a factory install on the EPIQ series roll cabs. With just a push of a button from up to 75' away, the ECKO gives an audio alert when arming and disarming the tool storage unit. The ECKO remote locking system adds to the list of EPIQ security features, including the tubular lock with rotating ring and lock clips on the back of each EPIQ drawer.

Complete solution for tire pressure monitoring

The Snap-on Tire Sensor System Tool, No. TPMS3, is a complete solution to diagnose and relearn tire pressure monitoring systems on US and imported vehicles. It also offers a comprehensive database of information to assist the technician with individual vehicle-specific relearn procedures along with a feature to access replacement sensor part numbers quickly. It includes the ability to easily write sensor IDs on Asian vehicles and has the capability to print sensor information through the webTPM software portal and a PC or laptop. Aftermarket programmable sensor programming software can be added to further enhance the tool's capabilities. The Flip Socket, No. S61112, eliminates the need to switch tools when servicing different size sensors. When combined with a torque wrench, the S61112 allows techs to easily remove and install TPMS sensors to manufacturers specifications.



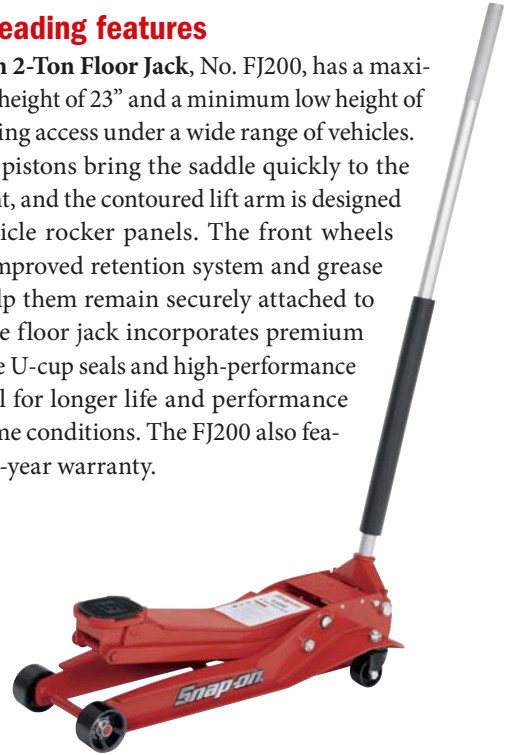
Sonar-sensing technology

The **Snap-on Motorized Wheel Balancer**, No. EEWB332A, utilizes time-saving sonar-sensing technology to measure rim width without the need to manually measure and input values. Multiple ALU weight placement modes allow users to specify weight placement locations accommodating the wide variety of wheels found on today's vehicles. The SAPE arm permits exact weight placement when using tape weights, and the split weight mode hides tape weights behind the wheel spokes. The patented Virtual Plane Imaging technology in the EEWB332A senses imbalances, offering accuracy and repeatability, according to the company.



Industry-leading features

The **Snap-on 2-Ton Floor Jack**, No. FJ200, has a maximum lifting height of 23" and a minimum low height of 3-1/2", allowing access under a wide range of vehicles. Dual-pump pistons bring the saddle quickly to the service height, and the contoured lift arm is designed to clear vehicle rocker panels. The front wheels feature an improved retention system and grease fitting to help them remain securely attached to the unit. The floor jack incorporates premium polyurethane U-cup seals and high-performance hydraulic oil for longer life and performance under extreme conditions. The FJ200 also features a three-year warranty.



Access stored pre-programmed settings easily

The **Snap-on MIG Welder**, No. MIG160i, features a library of synergic curves to handle a variety of materials and thicknesses. Technicians can easily access stored pre-programmed settings by selecting the applicable material type, wire size and shielding gas. For faster set-up times the MIG160i automatically sets the voltage, current and wire speeds that are most optimal for the job. Material capabilities include steel, stainless-steel and high strength steel using copper silicon wire. The MIG160i also will weld 5356 and 4047 aluminum with an optional torch kit.

Two-speed turntable for speed and precision

Designed to reduce floor-to-floor time, the **Snap-on Two-Speed Tilt Back Tire Changer**, No. EEWH326A, has a two-speed turntable with a forward speed of both 14 rpm for increased speed and 7 rpm when precise control is needed. The tilt-back design speeds set-up time and allows for 15" rim widths. The EEWH326A is equipped with a pneumatic bead assist to help the user mount low profile tires quickly and safely. The EEWH326A services OEM car, light truck and SUV wheel and tire assemblies.





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90-degree angle light coverage

The **Snap-on Rechargeable Pivot Light**, No. ECFHKY, offers visibility and 90-degree pivot coverage, while providing 350 lumens of output from six LEDs. The rechargeable light source offers a 90-degree angle light coverage and features a strong magnet in its base for quick and easy mounting. Able to illuminate tight, cramped workspaces, the ECFHKY can produce three hours of maximum brightness and five hours at 50 percent, requiring only 4-1/2 hours to fully charge. It is available in three colors.



Remove underbody panels more quickly

The **Snap-on 1/4" Drive 8mm and 10mm Semi-Deep Flip Socket**, No. S6810, was created to help technicians save time when performing work that requires removal of underbody panels. The S6810 offers service technicians the convenience of using one tool to remove the two most common sizes of underbody panel fasteners – 8mm and 10mm – speeding completion of the job, especially when combined with the Snap-on CTS761 cordless power tool. The double hex (12-point) design allows the socket to engage a single hex fastener every 30 degrees rather than every 60 degrees to provide access to restricted areas.



Ultimate in versatility

The **Snap-on Two-Piece 3/8" Drive Impact Swivel Extension Set**, No. 202IPFX, is designed for optimum strength, durability and versatility. Technicians can use any shallow, semi-deep, deep, six-point, 12-point metric or fractional impact socket with this extension set. Competitive products can include a fixed-size socket at the end of the extension, which creates the need for a technician to buy an entire set of swivel extensions to be equipped with the various fastener sizes required to get the job done, according to the company. The Snap-on laser-welded pivot pin provides a smooth, full 30-degree swivel for an efficient power transfer. The set contains 6" (No. IPFX6) and 9" (No. IPFX9) swivel extensions crafted from alloy steel that are heat-treated for long-lasting performance.



Largest viewing area on the market

The **Snap-on New Generation True Digital Video Borescope**, No. BK6500, helps technicians to view difficult-to-see places when tackling a repair. Whether behind the engine block or inside the radiator to check for corrosion, the BK6500 features dual-image lenses for straight ahead and 90-degree angle viewing. Digital video images are stored to the internal memory or SD card, and the video recording and playback capabilities provide quick, easy referencing when completing a job. The 4.3" diagonal LCD screen has a 40 percent larger viewing area than competitive units and the previous model, according to the company. Powered by a rechargeable Lithium battery, the BK6500 is equipped with a USB port to transfer data and comes with a two-year warranty.

Precision-cut and vapor-blasted tips

The Snap-on 8-pc Soft Grip Screwdriver Set, No. SGDX80BR, features five standard, flat tip and three Phillips screwdrivers for loosening a variety of fastener types. With precision-cut and vapor-blasted tips for optimal fastener retention, the SGDX80BR also features a tip identifier molded into the end of the handle. The handle geometry blends comfort and control with a narrow neck for precise fingertip control. A soft grip handle ensures excellent gripping surface and superior turning force, while the hard grip handle is comfortable and grease resistant. A durable inner core maximizes torque between the handle and the blade for powerful turning. In addition, the hexagon bolster prevents the blade from being forced into the handle and allows the use of a wrench when more turning force is required. The SGDX80BR is suitable for jobs of all types and comes with a durable storage tray.



The welded pivot pin reinforces the socket wall

The Snap-on Metric 6-Point Shallow Flex Impact Socket Set, No. 207IPFM, manufactured for longevity and designed for ease of use, features a broach depth that will start to thread the nut onto the stud. The welded pivot pin helps to reinforce the socket wall and allows full 30-degree, uninterrupted, smooth action for efficient power transfer at almost any angle. The set includes sockets, Nos. IPFM10C through IPFM18C, ranging from 10mm to 18mm.

Our Tools

HANDLE STUDS



- Unique design removes and installs stud with no thread damage
- Removal tool has split taper collet providing maximum locking grip
- Install tool's ball bearing design tightens and torques with no thread damage



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10 piece SAE Stud Removal & Install Kit
 Kit covers SAE Stud Sizes
 5/16" x 18, 5/16" x 24,
 3/8" x 16, 3/8" x 24, 7/16" x 14
 MSK10

10 piece Metric Stud Removal & Install Kit
 Kit covers Metric Stud Sizes
 M6 x 1.0, M8 x 1.25, M10 x 1.25,
 M10 x 1.5, M12 x 1.25
 MSKM10



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Access to tools right at the vehicle

Portable, convenient and easy to maneuver, the **Snap-on Automotive Service Tray**, No. SOSTPC, provides technicians a method to easily access tools right at the vehicle. The SOSTPC has a height adjustable support post up to 48.6" to keep tools within reach while technicians are working under the hood. The 25" leg clearance allows the tray to slide under the hood from the front or side of the vehicle to quickly position the tray where needed. With a load capacity of 125 lbs, the tray features a 2" deep drawer, to hold larger items and a large open basket for increased tool storage. Bigger casters allow for easier movement and a wide bottom base ensures tray stability.



"No guess" voltage digital display

The **Snap-on Digital Display Circuit Tester**, No. EECT400, allows technicians to easily detect DC voltage, power, ground and circuit integrity. The EECT400 incorporates the DC voltage digital display of a multimeter providing a "no guess" voltage value of the circuit, which is especially useful in more demanding environments such as testing circuits in sunlight. The backlit LED also indicates red for power or green for ground. The digital display circuit tester provides surge protected +/-0.3V accuracy from 3V to 19.99V, plus the unit's one-hand operation design allows technicians to have the other hand free to wiggle wires or operate switches.



Service rear parking brake springs on Toyotas

The **Snap-on Emergency Parking Brake Tool**, No. BT20, makes it possible for service technicians to save an average of 20 minutes on most rear brake jobs, according to the company. The small tip fits through the access hole with ease to engage the brake shoe's hold down spring cup on Toyota Tacoma, Tundra, FJ Cruiser, 4Runner, Land Cruiser and Camry vehicles (model years 2000 to present). Manufactured from special alloy steel and heat-treated for optimum strength and durability, the BT20 offers a sturdy handle and special tip to efficiently and effectively complete the job.



Real-time results via the built-in printer

The **Snap-on Advanced Battery System Tester**, No. EEC5750, can be used to test new EFB start/stop systems and a wide array of batteries for cars, trucks, and other vehicles, including a full range of battery voltages. CCA and temperature inputs make the results more accurate and consistent. The EEC5750 features easy-to-access buttons, a horizontal handhold, designed for comfort, retractable hanger, 10' cables, plus a full-color 3-1/2" screen. With a built-in printer for real-time results, the EEC5750 has eight language selections available on-screen and via printout.

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Classic roll cabs feature custom color packages

The **Snap-on Classic Series**, No. KRA2422POT, features flat black powdercoated paint and gloss black aluminum drawer trim. Add an extreme green custom guard set (No. KA2422SETPJJ) for a striking result. Extreme Green and 12 other powdercoated color schemes are available to customize tool storage; each includes one 50" drawer front, one corner guard set, one drawer guard set and one stainless-steel bottom guard. All Snap-on roll cabs feature Lock-n-Roll drawers, reinforced corner gussets and double-wall construction. Built for a changing workplace, techs can add lockers, end cabs, a WorkCenter riser and overhead storage to create their ideal tool storage.



Two brightness levels

The **Snap-on Rechargeable Shop Light**, No. ECFLED84, features two brightness levels. The ECFLED84 has a Li-ion rechargeable battery designed to replace the need for supplemental batteries. Fully charged, the 84 high-output SMD LEDs produce 550 lumens for over five hours. Designed with the technician in mind, the ECFLED84 is built with an extremely tough light tube enhanced with diffusion technology for optimum lighting.



Unique spline wrenching configuration

The **Snap-on 7-pc Deep Spline Socket Set**, No. 207TFEL, offers a unique spline wrenching configuration, which allows for use on spline fasteners and ordinary six- and 12-point fasteners. Snap-on spline sockets are the only sockets that meet both military spec (MS-33787 and MIL-W-8982) and SAE aerospace standards (AS954) for strength and thinness of socket walls, ensuring better access and reliability when removing seized fasteners, according to the company. The Snap-on 207TFEL features a nickel-chrome finish for easy cleaning and protection against corrosion. The set includes 1/4" drive (Nos. TEL7B through TEL10B) and 3/8" drive (Nos. FEL120B through FEL200B) in a convenient magnetic socket tray.



Auto-off feature maintains last measurement

The **Snap-on 6" Electronic Caliper**, No. CAL6E, offers an ergonomic design, making it comfortable and easy-to-use. The auto-off feature kicks in after 30 minutes maintaining its last measuring position. The hardened stainless steel body provides 0.0005" resolution and 0" to 6" measuring range. At 0.320" the digits are easy-to-read and offer inch/millimeter conversion. Equipped with an integrated depth rod designed for smoother operation, and a thumb wheel for fine adjustments. The CAL6E comes in a plastic case with a foam insert for secure storage.

WORK SOCKS

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Sizes include M, L, and XL

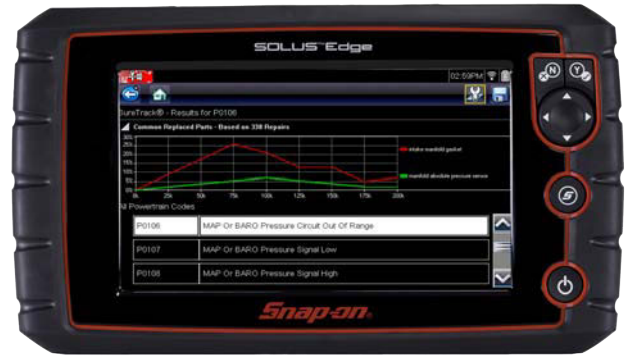


For more information or to order, please contact your Snap-on representative



Tackling heavy duty jobs

The Snap-on 3/4" Drive Set, No. 414AHD, provides technicians with a complete socket set for tackling difficult heavy duty jobs. Snap-on sockets utilize the Flank Drive Wrenching System which increases torque up to 20 percent while helping to prevent the rounding of fasteners. The chrome set features 15 tools, including 12-point shallow sockets, 8" and 16" extensions, ratchet and breaker bar heads and a handle. A storage tray is included for easy access.



Coverage for more than 70 vehicle systems

The Snap-on SOLUS Edge No. EESC320, has OEM-specific coverage for more than 70 vehicle systems and can be used for various jobs including hybrids, TPMS, steering and clean diesels. Techs have the ability to graph up to four live data parameters at once, and the SureTrack expert information insight from Real Fixes and verified replacement records. SOLUS Edge provides enhanced coverage for over 40 makes without the cost and complexity of factory scan tools and offers optional European coverage. The large 8" touchscreen display on SOLUS Edge is easy-to-read and provides accurate results in as little as 30 seconds.

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Offers maximum arm clearance

Built for comfort, the Snap-on Premium Creeper, No. JCW45BL, withstands rugged shop conditions. With a 10-degree angled back support, the body boasts a sculpted design ensuring the creeper stays with the user. Each side of the creeper features a relief to allow technicians maximum arm clearance. Made from a durable, lightweight material, the JCW45BL features handles to easily transport the creeper from job to job. The JCW45BL helps keep technicians organized while working under the car with storage trays for tools, parts and fasteners. The six premium inline roller casters are designed for minimal contact with the ground for better maneuverability and a smoother ride.



For jobs that require extra reach

The Snap-on Extension Set, No. 206AFXWP, provides needed offset for jobs that require extra reach. Usable in the wobble and rigid functionality, the 206AFXWP offers 16 degrees of additional accessibility. The knurled shanks allow easy fingertip turning to reduce hand fatigue. The set includes a storage tray and contains six extensions, FXWP1 through FXWP11 (1-1/2" to 11").

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Additional bleeders and kits available

- BB9008 – 800ml bleeder
- BB9008 KIT – 800ml bleeder kit
- BB9018 KIT – 1.8L bleeder kit



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Nearly 17,000 cubic inches of storage space

The Snap-on KRSC343 Series of Roll Carts features a split-top that slides out from the center to provide total access to a 7" deep top compartment for organizing large sockets, power tools and pry bars. Unlike competitive products, which can bolted together, the KRSD343POT body features a welded double-wall design for lasting strength. Equipped with a large, 8" deep bottom drawer, the KRSC343 is 27" wide with almost 17,000 cubic inches of storage space. Made from the Heritage Roll Cab platform, the KRSC343 is designed to be easier to maneuver with quieter, lower-vibration casters. For added security, there is an independent drawer locking switch inside the top compartment while two key-driven locking bars secure the sliding lid to help prevent theft. The soft safety bumpers on each corner help protect it from vehicles and other shop equipment.



Delivers more power in less space

The Snap-on Combination Ratcheting Wrench Sets, Nos. OXR704 and OXRM703, have a patented, ratcheting, gear-design that delivers up to 40 percent more torque and 95 percent greater cycle life over competitive wrenches. The zero-degree offset and uni-directional design are Snap-on features that deliver more power in less lateral space to help access and remove the most stubborn fasteners in tight work spaces. The 80-tooth ratcheting gear minimizes the swing arc needed to move fasteners in restricted spaces. With the Flank Drive wrenching system on the box-end, the 4-pc SAE OXR704 set and the 3-pc Metric OXRM703 set are able to generate up to 15 to 20 percent more turning power while minimizing the risk of tool or fastener damage.



Designed for heavy duty fasteners

The Snap-on TORX Drive Set, No. 209EFTXBY, which can be used for multiple applications, is designed for heavy duty fastener removal. The 209EFTXBY includes 1/4" drive TTXB15E through TTXB25E and 3/8" drive FTXB27E through FTXB55E, nine pieces total.



Reduces chipping and splitting

The **Snap-on Punch and Chisel Set**, No. PPC715BK, is designed with a special anvil end on the heads machined to a modified parabolic curve. This directs the striking force to the center of the tool head to help control mushrooming. The 16-pc PPC715BK reduces chipping and splitting and affords slow metal displacement during use. Built from quality steel alloy and heat-treated for optimum performance, the striking head adds to the toughness and reliability of this set.



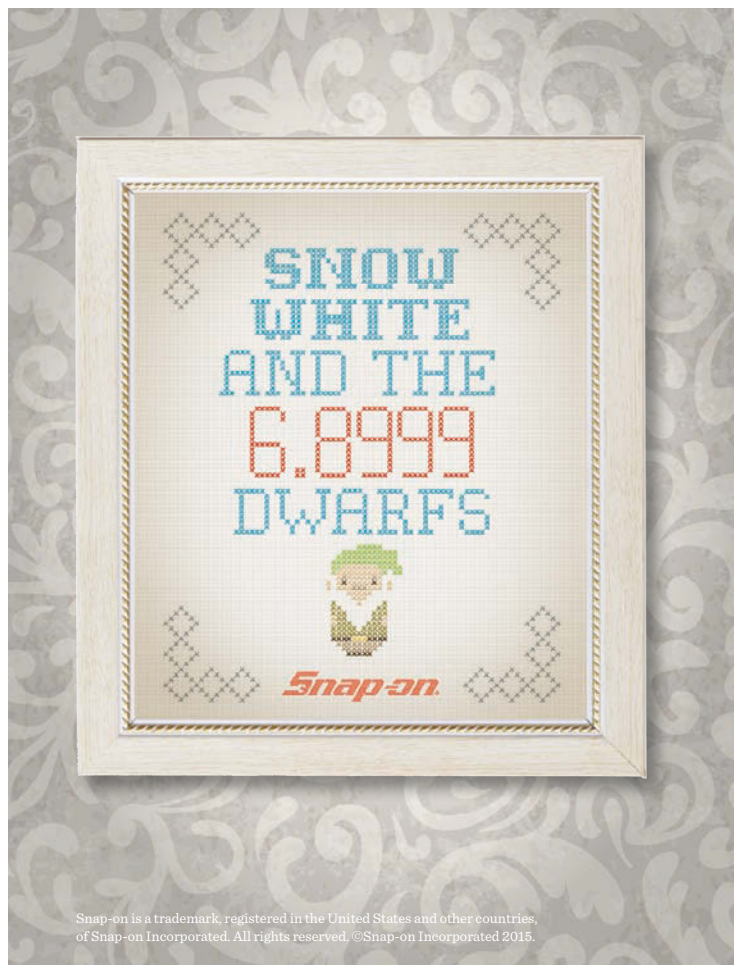
Composite handle shank improves balance

The **Snap-on 40-oz Ball Peen Hammer**, No. HBBD40, has a soft grip handle with ribbed, textured elastomer grip to help prevent the hand from slipping while using this tool during tough jobs. A composite handle shank improves balance while helping to defuse shock and dampen vibration. The HBBD40 features a free-flowing steel canister shot design to improve dead blow action while reducing rebound. The HBBD40 can be used on rear drums, tie rods, U-joints rounded end, track bar rounded end, rivets and more. The non-sparking, chemical resistant molded urethane covering is bright red for high visibility in the shop and toolbox.



Three extra-wide drawers

The **Snap-on 84" EPIQ**, No. KETP843A4PBO, offers techs three extra-wide drawers for storing tools of all shapes and sizes. Designed with the hardworking tech in mind, frequently used tools are easy to reach with this storage unit. From the EPIQ series, it is built to withstand the daily rigors of the toughest tech in the busiest shop. Equipped with a PowerBank, the KETP843A has dedicated, secure power tool storage with built-in power access to recharge batteries even while the bank is locked. EPIQ tool storage also features 7" ISO-Ride casters with swivel-lock mag wheels and InPulse drawers for optimum performance and a professional look.



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Joints are positioned for maximum leverage

The Snap-on Combination Pliers Set, No. PL400B, features durable pliers and cutters fit for everyday use. The cold-forge process used to make these reliable hand tools increases strength from top to bottom while the joints are positioned close to the pliers' jaws to provide maximum leverage. The Needle Nose Pliers (No. 96ACF) and Combination Slip Joint Pliers (No. 47ACF) utilize Snap-on's Talon Grip jaws for excellent gripping performance. The Diagonal Cutters (No. 87ACF) employ VectorEdge blade technology to make strong, reliable cuts on any material from soft cable ties to hardened spring steel. And, the Adjustable Joint Pliers (No. 91ACP) provide versatility for many common jobs.



Single-horsepower motor platform

The Snap-on PT400 Series of Heavy Duty Die Grinders features a single-horsepower motor platform, a dual taper collet system, paddle style safety trigger and a low dB(A) rating to reduce noise fatigue. The series includes the PT400 Straight Die Grinder, PT410 Right Angle Die Grinder, PT400L Long Straight Die Grinder, PT430 3" Cutoff Tool, PT490 4" Angle Cutoff Tool and the PT450 4-1/2" Angle Grinder.

Heavy duty diagnostic tool delivered to the vehicle

The Snap-on PRO-LINK Ultra Elite with Cart, No. KRSC325EAPBO, is a heavy duty diagnostic tool with a five-drawer roll cart, monitor and printer. The PRO-LINK Ultra Diagnostic Tool provides essential maintenance functions including the ability to read and clear fault codes, access trip data to monitor vehicle and driver performance, create health reports and view live data. Featuring an 8.5" full color class sunlight-readable LED display, users have the ability to view diagnostic data via HDMI output to the 23" HD LED monitor. This roll cart features four custom fit drawer organizers with part number and description to provide control for the unit and accessories, while also allowing display and tracking of registered and trial software titles. Vehicle reports and diagnostic session information can be printed via the printer in the top drawer.



Three tools in one

The compact design of the Snap-on 7" Wire Stripper/Crimper/Cutter, No. PWCS7CF, is suited for techs working on projects in confined areas. Whether under the dash or within an electrical service enclosure, the PWCS7CF features a wire cutter and crimper in front of the pivot and a second cutter on the inner handle surface making it easy to use in tight places. The precision ground stripping holes remove insulation on wires of 12, 14, 16, 18 and 20 gauge, while the cushion grips provide comfort and control to ease hand fatigue. Crafted with a natural steel finish and protective clear coating, the PWCS7CF is durable and long-lasting.



IF IT'S NOT EXACTLY RIGHT IT'S EXACTLY WRONG. Your repairs are only as precise as your measurements, so you need the most accurate, precise measuring tools you can find. From measuring thread counts and brake pads to rotors, drums and other critical parts, Snap-on® has you covered: Our measuring tools are constructed from stainless steel and hardened metal to provide absolute accuracy, better readability — via digital displays, gauges or standard notches — and long-lasting toughness every time you use your tools.

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Use one wrench in four positions

The **Snap-on Wrench Set**, No. VSM807B, is designed with both ends of the same size to permit the use of one wrench in four positions. The wrenches feature angled heads offset at 30-degree and 60-degree angles to the handle to allow for additional turning with the flip of the wrench. The nickel-chrome finishing helps protect against corrosion to make the wrenches easy to use and clean. The complete set contains seven pieces. The VSM807B set includes a storage tray and part numbers VSM5210B through VSM5215B, sized 10mm to 15mm and 17mm.



Access hard-to-reach retaining rings

With straight, 45- and 90-degree jaws, the **Snap-on Retaining Ring Pliers Set**, No. SRPC107, makes it easier to access hard-to-reach retaining rings. The pivot screw converts pliers from internal to external for versatility while the wide cushion grip makes the tools comfortable and easy to handle. The set includes Straight Tip Pliers, Nos. SRPC3800, SRPC4700 and SRPC7000, 45-degree Angle Tip Pliers, Nos. SRPC7045 and SRPC9045A, and 90-degree Angle Tip Pliers, Nos. SRPC7090 and SRPC9090A, in a storage tray.

A 3/8" impact workhorse

The **Snap-on 18V 3/8" Drive MonsterLithium Cordless Impact Wrench**, No.

CT8810A, one of the fastest 3/8" impact wrenches on the market, can remove a 7/8" bolt tightened at 300 ft/lbs in less than five seconds. The digital fuel gauge and micro-controller in the Li-ion battery monitors temperature and amperage to help keep the motor from overheating while the comfortable non-slip grip helps reduce hand fatigue. A one-watt LED illuminates workspaces with a simple pull of the trigger for better visibility. This impact provides 230 ft/lbs of torque output and completes a full charge in just 55 minutes. The CT8810A includes a battery charger, two Li-ion rechargeable batteries and a zippered storage bag.



Organizing system for eight power tools

The **Snap-on 72" Roll Cab with Power Tool Organizer System**, No. KRL1163, offers technicians a secure, easy storage system for their "go-to" power tools. Many technicians use the bottom drawer of their roll cab to store cordless and pneumatic power tools, creating a cluttered drawer that can waste time when searching for the right tool. The KRL1163 features an organizing system that holds eight power tools with adjustable cups to fit a variety of sizes. In addition, the 12" drawer is adjustable, allowing the drawer to move up or down based on personal preference.

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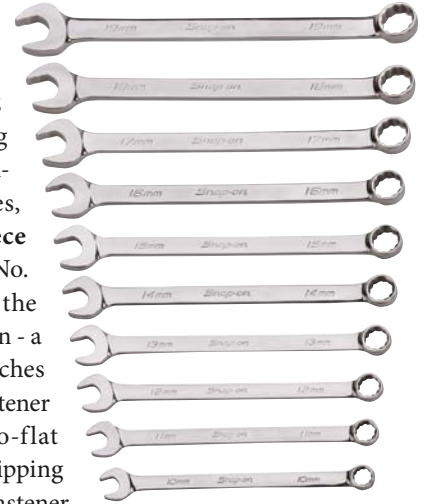
High performance and more torque

Durable and lightweight, the **Snap-on 1/2" Drive Air Impact Wrench**, No. MG725, features one-piece machined magnesium housing that aligns the internal parts in a way that reduces vibration. The patented cushion grip helps insulate the user's hands from cold and reduces fatigue. Featuring an eight-vane rotor, the MG725 has fast motor startup and higher performance with more torque. The twin-hammer impact mechanism is hard-hitting to quickly remove stubborn fasteners. With a slim-style nose, the MG725 works in restricted access areas while the anvil stops when the trigger is released to prevent throwing fasteners.



Provides more turning power

Delivering up to 62 percent more turning power than conventional open-end wrenches, the **Snap-on 10-Piece Combo Wrench Set**, No. SOEXM710, features the Flank Drive Plus design - a series of flutes or notches that "bite" into the fastener for additional flat-to-flat contact, preventing slipping and rounding of the fastener. Additionally, the box end is rotated 7.5 degrees away from the handle so the wrench can be flipped to get a new grip in tight situations. Manufactured with special alloy steel, precision-forged and heat-treated for durability, the SOEXM710 is perfect for tough jobs and hard-to-reach areas. The set includes part numbers SOEXM10 through SOEXM19, sizes 10mm to 19mm, and a storage tray.



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Tapered design for comfortable grip

The Snap-on Striking Prybar Set, No. SPBS704A, utilizes a durable, ergonomic handle that features a tapered design for comfortable grip and withstands extreme work environments, while still matching handle to blade length for optimum leverage. The handle also includes a flared metal end cap, which allows hammer striking while reducing damage to the handle and protecting users' hands from off-center handle strikes. Designed for tough jobs, the SPBS704A blade extends through the handle and makes contact with the end cap to provide solid striking force. Included with the set are 8", 12", 18" and 24" prybars designed to meet the demands of demanding techs.



Increase torque up to 20 percent

The Snap-on 3/8" Drive Metric Flank Drive 6-Point Deep Socket Set, No. 212SFSMY, provides a reliable solution to complete a wide range of tasks. Snap-on sockets utilize the Flank Drive Wrenching System which increases torque up to 20 percent while helping to prevent the rounding of fasteners, according to the company. Snap-on sockets' thin walls provide maximum accessibility without sacrificing strength. The 12-pc set includes sockets, ranging 8mm to 19mm (Nos. SFSM8 through SFSM19) and a magnetic storage tray.

HOT STUFF



Compact Professional Soldering Irons

- Converts to a heat shrink tool and hot knife with the addition of interchangeable tips
- Kit includes (5) soldering tips plus hot air, hot knife and air deflector tips
- Welded gas tank for better strength, safety, reliability
- Adjustable power YAKS32A 15-125 watts and YAK22A 15-75 watts

Butane Torch TORCH6

- Twin spark ignition, lights first time every time
- 4 1/2 inch flame 2,700 BTUS
- Robust burner designed to protect the ceramic and increase durability
- Welded gas tank for better reliability
- Gas level window



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Snap-on Extra-Long 3/8" Drive Ratchet

The 3/8" drive, 80-tooth gear and handle length impressed these reviewers.

By Josh Smith

When additional torque or access to a restricted space was needed, both Lou Fort, lead technician at K.A.R.S. Inc. in Huntingburg, Ind., and Phil Fournier, owner of Phil's Auto Clinic in Hemet, Calif., found the Snap-on Extra-Long 3/8" Drive Ratchet made work effortless.

"I like the 3/8" drive, the high tooth count and extra length of the handle," Fort says, also noting that changing the direction of the ratcheting mechanism is done with ease. "Having a cushioned grip takes some of the strain and pain out of my hand when really pulling hard. The grip also provides a better hold with oily hands."

"The extra-long handle and very precise, super-fine ratchet allows one to access very tight bolts, etc., that otherwise would require disassembly to get to," Fournier adds.

Fournier says the tool, which requires no set-up, is easy to use. "However, the extra-long handle makes it impractical for some applications where a normal length ratchet or flex head is preferable," he says. "It is not a ratchet for every application. It is more of a specialty tool for those very tight fasteners in inconvenient locations."

Fournier used the tool to remove cooler line fittings from a radiator in a 5.3L Chevy pickup. "There is no room between the fan shroud and the air filter box to click a conventional

ratchet. Plus, the threads have Loctite on them, which makes them very hard to remove," he explains. "This tool is just the thing for that kind of application."

"Ditto for the timing belt tensioner on a PT Cruiser where there is just no room to get an impact wrench in the tight space, and the fasteners tend to be very tight," Fournier adds. "The long handle, coupled with the need to move the handle only a very few degrees to get another click on the ratchet, is very handy."

Fort says he employed the easy-to-use tool on brake work and servicing the accessory drive belt. "With the FHLL80, I am able to break caliper stand hardware loose that I had previously been using a 1/2" drive for. The length of the handle has also shown its worth working with automatic belt tensioners."

Fort has owned the FLL80 since it was first introduced but appreciated the Comfort Grip on the FHLL80, noting it adds about a 1/2" to the overall length. Fournier has used a shorter version of this tool, but says the FHLL80 has "a good deal more torque."

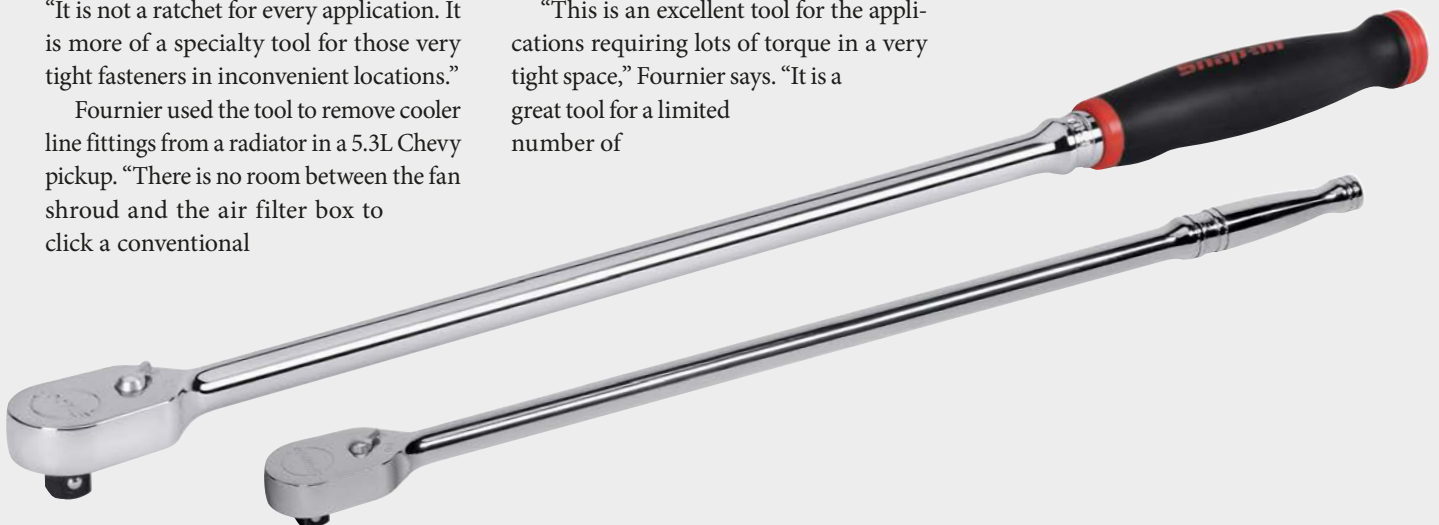
"This is an excellent tool for the applications requiring lots of torque in a very tight space," Fournier says. "It is a great tool for a limited number of

PRODUCT DESCRIPTION:

The Snap-on Extra-Long 3/8" Drive Ratchet, No. FLL80, provides technicians with access to difficult-to-reach fasteners and tight-access areas where a 1/2" drive won't fit. The 17-1/2" long ratchet reaches 7" longer than the company's long handled ratchet. The Dual 80 ratchet design features an 80-tooth gear with dual pawls, which engage seven teeth at all times. The sealed head keeps lubricants in and contaminants out, which can lead to a longer tool life. This product also comes in a soft grip version (No. FHLL80).

jobs. The handle is too long so as to be clumsy for typical work not requiring the added torque. I don't use it on every job."

For the jobs that require extra leverage, the Snap-on Extra-Long 3/8" Drive Ratchet drew rave reviews. "The FHLL80 ratchet has saved me time on several jobs due to its long handle and Dual 80 tooth gear head," says Fort. "The Dual 80 tooth head takes on the extra load given to it from its 17-1/2" long handle with ease." **PTEN**



Snap-on

14.4V MicroLithium Cordless Impact Wrench

The reviewers liked the time savings offered by this compact, powerful impact.

By Josh Smith

Daniel McGuinn of Realtoolreviews.com appreciated the many ways the Snap-on 14.4V 3/8" Drive MicroLithium Cordless Impact saved time on jobs, and Lou Fort – lead technician at K.A.R.S. Inc. in Huntingburg, Ind. – was impressed with the power and speed of the quick chuck (QC) version of the tool.

In addition to removing and installing fasteners quickly, McGuinn found the tool saved time because there were no cumbersome steps associated with pneumatic tools such as pressurizing air lines, connecting couplers and fighting with a hose. "Literally, you pick it up and it's ready to go," McGuinn says.

"Extremely easy to use and control," McGuinn adds. "The rocker switch design versus a standard trigger – like most drills and impacts – proved to be very effective at not only applying torque to a fastener, but also in the removal of them. The electric brake works excellent, and as soon as the trigger is released, the socket immediately stops and the nut or bolt will stop turning."

Fort, who also saw time savings when cleaning threads, says his favorite feature

was the 104 ft/lbs of torque produced by the small, powerful and fast CT761QC. McGuinn says the CT761 is advertised as having up to 120 ft/lbs of torque but was able to remove fasteners torqued to 150 ft/lbs with ease.

"The amount of work I got done with a single charge was also impressive," Fort adds. "Snap-on's extended tool offerings for this one battery add to its value."

The CT761 – which comes with two batteries, a fast charger, a protective tool bag and an owner's manual – requires minimal set-up.

"Initial set-up requires the tool's batteries to be charged up," Fort says, noting both of the power sources came with a 50 percent charge. "It took less than an hour to bring the first one up to a full charge. Since the CT761QC is the bit driver version, you also have to install your bit driver of choice."

Fort used the CT761QC to remove and install the front eight lug wheel of a F-350; clean out the mounting holes of a used transfer case for a F-250; as well as brake work and suspension jobs.

"The last job I used it on is the one that impressed me the most," Fort says.



"I just got doing a 'Cab off' high pressure pump and full set of injectors on a 2008 K3500 HD with a 6.6L. I removed and installed every bolt including the cab mounts with the CT761QC all on a single battery. The only bolts I had to break loose by hand were the exhaust manifolds and turbo mounts – quite impressive."

McGuinn, who complimented the tool's light weight and compact size, used the CT761 to assemble shop equipment among other tasks. He says the CT761 provided two distinct advantages – its size and its power.

Fort and McGuinn would prefer if the LEDs on the front had a time delay because once the user lets off the trigger, they turn off. "It would be nice to see a five to 10 second delay after the trigger is released so you can light up an area without the anvil spinning," McGuinn says.

Overall, both McGuinn and Fort are impressed with the cordless impact and its performance.

"It really surprised me of the ease of use, as well as the unique design features that I do not normally see on cordless impacts," McGuinn says. **P**TEN

PRODUCT DESCRIPTION:

The Snap-on 14.4V 3/8" Drive MicroLithium Cordless Impact, No. CT761, provides 120 ft/lbs of torque output and produces 2,500 rpms of free speed to handle a wide range of applications. The three nose-mounted LEDs illuminate the work area, and the CT761 warns the user if they are under voltage or over current, shutting down the impact before it overheats. The impact can access restricted applications, and a variable-speed, toggle-style trigger gives the user control, avoiding over-torquing or snapping fasteners. The tool weighs approximately 2.5 lbs with the 2.0Ah rechargeable battery, and the fuel gauge notifies the operator how much battery life remains. A quick chuck version of the tool (No. CT761QC) is also available.

Snap-on

1/2" Drive 36" Breaker Bar

The reviewers were able to break stubborn bolts loose, like those found on the crankshaft of Honda engines.

By Josh Smith

Both Eric Moore, co-owner of DeMary Truck in Columbus, Ohio, and Ken Elzinga, owner of Hilltop Auto Service in Byron Center, Mich., found the Snap-on 1/2" Drive 36" Breaker Bar to be useful around their shops.

"In those situations where you need a breaker bar of this length, it worked great," Elzinga says.

"Not having to resort to using a smaller breaker bar with a cheater pipe on the end meant at least one less trip to the toolbox," Moore adds. While using an extension of some kind over a smaller breaker bar can be effective, Moore warns it can be dangerous if the extension slips off.

"It can also result in the breaker bar coming apart – most likely at the ears for the square drive," he says. "The overall length, weight and proportions of the Snap-on 1/2" Drive 36" Breaker Bar make a lot of those actions unnecessary."

Both Moore and Elzinga used the Snap-on 1/2" Drive 36" Breaker Bar to service the crankshaft bolt on Honda jobs. Both noted that this can be a particularly difficult task, and Moore says it often takes several rounds with an impact gun to knock it loose.

However, Elzinga says, "This long breaker bar was just the ticket to get this bolt loose. When you get a 200-lb tech leaning on a 3' breaker bar, you can make some serious torque."

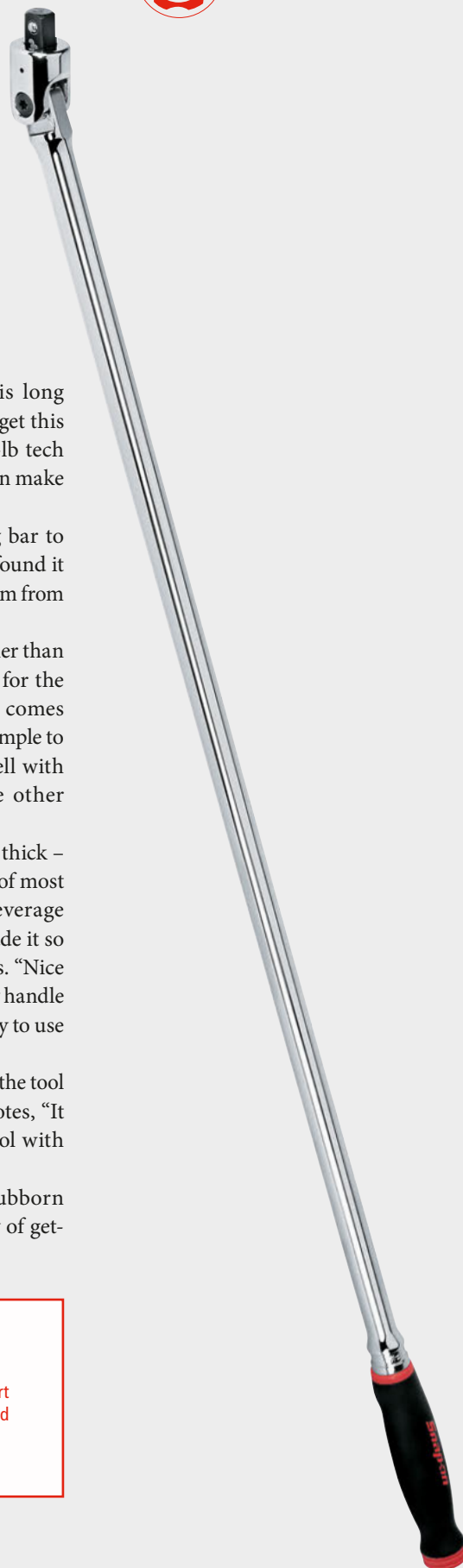
Both techs used the breaking bar to loosen lug nuts, and Moore also found it did well holding cranks to keep them from turning.

The tool requires no set up, other than selecting the 1/2" socket needed for the task. No accessories or manual comes included. Moore says the tool is simple to use and notes it is made very well with much thicker stock than some other smaller length breaker bars.

"The mounting ears are really thick – this seems to be the failure point of most breaker bars. The additional leverage afforded by the extend length made it so much more effective," Moore says. "Nice thick mounting ears, long weighty handle and cushioned grip make it so easy to use and get results."

Because of its size, Elzinga says the tool is a little cumbersome. But he notes, "It works great when you need a tool with this kind of leverage."

"It helps you break loose stubborn bolts that you have no other way of getting loose," Elzinga says. **PTEN**



PRODUCT DESCRIPTION:

The Snap-on 1/2" Drive 36" Breaker Bar, No. SHN36, provides 33 percent increased torque with less effort for a variety of applications, according to the company. The SHN36 offers a soft-grip handle for added control and comfort. The strengthened head and square drive double the fatigue life of the tool.

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Snap-on sponsoring performance on the track and in the pits

Snap-on's longtime support of motorsports allows for work done in the shops and pits to translate to desirable and consistent results on the racetrack.

Snap-on supports a wide range of professionals, including motorsports teams and drivers, working in often punishing environments and under tight turnaround times. For much of its history, Snap-on has been a part of racing from IndyCar to NHRA to NASCAR and more. Attend any one of these motorsports events and you'll be sure to find Snap-on tools in the pits.



Snap-on is a long-time sponsor of Cruz Pedregon, dating back to 1992, when he won his first NHRA Funny Car Championship.

Snap-on is a long-time sponsor of Cruz Pedregon, dating back to 1992 when he won his first NHRA Funny Car Championship, and the company renewed its sponsorship of Pedregon Racing in 2014, extending its position of primary sponsor into at least 2017. Cruz made the fastest Funny Car pass in history last season, a lofty accomplishment for a single-car team. He knows and understands tools and serves as an ambassa-



▲ Snap-on recently hosted the "Snap-on" Seat Swap featuring Pedregon and Daytona 500 winner Joey Logano.

dor for the Snap-on brand during ride-alongs with franchisees where he visits customers in shops and attends franchisee events along the NHRA route. Cruz has even been through Snap-on franchisee training, so he knows their work and his sponsor well.

Another long-standing Snap-on motorsports relationship is its 33-year sponsorship of Team Penske. Snap-on is an associate sponsor of all Team Penske cars competing in NASCAR and IndyCar and serves as a primary sponsor of a Team Penske car in the NASCAR Xfinity Series. Snap-on recently hosted the “Snap-on Seat Swap” event, where Pedregon and 2015 Daytona 500 winner Joey Logano swapped racing roles and vehicles for an afternoon.



Snap-on is an associate sponsor of all Team Penske cars competing in NASCAR and IndyCar and serves as a primary sponsor of a Team Penske car in the NASCAR Xfinity Series. The company also introduced a new video “Tech Series” through its social media channels. The series brings the technology and tools behind racing to life for viewers.

Snap-on introduced a new video “Tech Series” through its social media channels this year that brings the technology and tools behind racing to life for viewers. Each of the “Nitro Edition” videos is hosted by Jarod DeAnda, well-known automotive event and Formula Drift announcer, and features Cruz as crew chief and nitro Funny Car expert. Each race week, a new video is posted on topics ranging from the difference between a six-stand and eight-stand clutch to how grip, temperature and coverage affect the setup of the car.

Motorsports continues to be an important part of Snap-on’s 95 year history. And, along the racing route, season after season, Snap-on will continue to make work easier in the shops and pits of race teams for when it counts on the track. **PTEN**



▲ The series features more than 20 videos on a variety of Nitro-related topics.

Big-Time Boxes

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



OWNER:

Charles Ferguson

Virginia Auto Service
Downtown Phoenix, Ariz.

The box of his dreams

By Mattie Gorman

Virginia Auto Service, a Phoenix repair shop servicing Asian, European and domestic vehicles, houses one giant box. Charles Ferguson, the automotive technician who has spent the last 18 years working for this shop is the owner of the Snap-on Epic series toolbox. “If you are going to have \$100,000 worth of tools you need a box worthy of holding them. It’s the box of my dreams.”

Ferguson has been building this box for five years. “Now it’s finally done, I’m not going any bigger,” he says.

The box is comprised of two side lockers, three bookshelves, a 60” top box, a 60” bottom box, a 72” bottom box and a hutch.

“The hutch is my favorite part,” says Ferguson. “It’s high and I can sit and research on the computer comfortably and spread out diagrams if needed. And, because I spend a lot of time here writing work orders on it, everything I need is right there at my fingertips.”

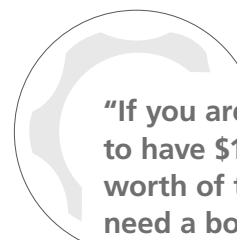
The hutch offers LEDs that automatically turn on when the hutch opens, and he prefers this to a 4’ fluorescent light.

Ferguson also likes the “sheer size” of his Snap-on box. “When you see it in person, it kinda just puts everybody that sees it in awe, but I love the fact that it has 12 power outlets.”

He uses the outlets to keep his box “nice and clean” and to organize his PC, his laptop and his other battery-powered tools.

“If you are going to have \$100,000 worth of tools, you need a box worthy of holding them.”

— Charles Ferguson



Another aspect of the box that stands out to Ferguson are the bookshelves, which offer room for “whatever you need.” Ferguson says the rims on the box are nice and “add a little something extra.” **PTEN**



OWNER:

Tommy Grimes

T & L Automotive, Inc.
Clemmons, N.C.

A box that stands out

By Mattie Gorman

Tommy Grimes, owner of T&L Automotive, Inc., in Clemmons, N.C., purchased a custom-made Snap-on tool box in March. “I’m a Snap-on fanatic and when I saw it I said, ‘that is my box.’ I wanted the biggest box, one so tall that I can’t even reach the top. I just love it.”

The lime green color and the overall size of the box really stand out to Grimes and remain his favorite features. The box, 18’ long by 8’ tall, is made of two side lockers, three overhead storage boxes, two middle boxes and more. All cabinets feature pull-out drawers.

Grimes is extremely proud of the box’s size saying, “It’s the biggest box

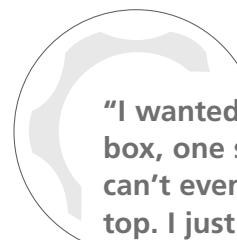
around and I own it. It’s longer than my ‘64 Cadillac.”

His box also showcases some of his Wallies – awards he has won in the NHRA Top Fuel Nitro Harley races.

“I think I have 16 Wallies and two world championships,” he says.

In his shop, Grimes builds custom cars and trucks, often building vehicles from the frame up. His shop also repairs classic cars and trucks, hot rods, rat rods and “normal, everyday cars, trucks and work vehicles.”

With a shop that covers almost every type of vehicle, Grimes needs his box to hold all of his tools. This 31-year veteran technician says he doesn’t have a favorite tool, though.



“I wanted the biggest box, one so tall that I can’t even reach the top. I just love it.”

— Tommy Grimes

“I change favorite tools daily. I have so many (tools), I don’t really have a favorite. They’re all my favorite,” says Grimes. **P**TEN



Want to show off YOUR Big-Time Box?
Email Mattie@VehicleServicePros.com
for more information.



Salute to service

Commemorating the contributions of the nation's veterans has long been a priority for Snap-on.

Snap-on has always been a proud supporter of our nation's Armed Forces. As far back as World War II, in a time when the military experienced severe tool shortages, the government called upon Snap-on to produce reliable, durable tools to keep our air and ground equipment operating. In more recent times, Snap-on has supported veterans' causes and cultivated a relationship with the nonprofit Honor Flight Network organization in 2013 that sought to uniquely honor Snap-on veterans for their service to our country.

Snap-on remains the only company to sponsor "solo" Honor Flights sending its own veterans of WWII, Korea and

Vietnam to Washington, D.C. To date, Snap-on has worked with Honor Flight to transport 300 Snap-on veterans and their guardians from 36 different states to see the memorials erected in their honor. Since 2013, Snap-on has donated \$250,000 to support these flights and other Honor Flight initiatives. The seven Snap-on sponsored flights served as a commitment to honor those who gave to their country then returned home to help build Snap-on as a company.

This program has honored Snap-on associate, retiree, and franchisee veterans and brought their families together around history that is sometimes difficult to share for these humble heroes. WWII pilot, Snap-on retiree and Honor Flight

participant Ed Adams says, "We never knew who were veterans until Snap-on honored us." A fellow Snap-on retiree, Manny Davis, saw Adam's story - "pilot shot down, captured, freed from Stalag 7A." He couldn't believe it because Davis was part of General Patton's troops that liberated the POWs from Moosburg and Stalag 7A. They knew of each other, but never knew the story of their previous rescue encounter until Adams' Honor Flight story was shared.

In 2013, Snap-on announced its initial \$50,000 sponsorship of Honor Flight at the National Hot Rod Association's (NHRA) race in Joliet, Ill. The next year Snap-on made another \$50,000 donation at the Joliet race. The Snap-on-sponsored "Funny Car,"

▲ Snap-on is the only company to sponsor "solo" Honor Flights.



▼ Snap-on is committed to commemorating the efforts of our Armed Forces and veterans.

driven by NHRA champion Cruz Pedregon, sported a special Honor Flight paint scheme for both races. Snap-on's tribute to Honor Flight Network in the racing pit and on the car received network television coverage on ESPN2.

In 2014, Snap-on created the Honor Flight Challenge to involve all Funny Car drivers in the effort to bring recognition to Honor Flight Network and honor our nation's veterans. Snap-on announced that for each sub-four-second Funny Car run, in any session, at any race throughout the last half of the season, Snap-on would donate \$10,000 to Honor Flight Network, up to \$150,000. At the end of the season, a total of five drivers, including Pedregon, made those quick passes.

At the last race, Snap-on not only met the commitment for those runs, it decided to donate the entire \$150,000, garnering even more national media coverage for Honor Flight and the important work it does for veterans.

Snap-on's commitment to the Armed Forces and veterans extends far beyond

the Honor Flight program. Snap-on has been ranked by U.S. Veterans Magazine, GI Jobs, Military Times and Franchise Business Review as one of the top, military-friendly franchises.

Snap-on is also a proud member of VetFran, the International Franchise Association (IFA) program that works to provide access and opportunities in franchising to our nation's veterans and spouses. At the 2012 IFA Convention, the Office of the Secretary of Defense, Reserve Affairs, recognized Snap-on for its "outstanding service and continuing support for the national defense."

From the tools and diagnostics used to service military equipment; to equipping service members for post-military franchise opportunities; to honoring our veterans, Snap-on, a great American company, is deeply committed to supporting our Armed Forces and veterans. Partnering with Honor Flight Network is another way Snap-on is committed to recognizing and thanking those who serve our country. **P TEN**



Shaping the brand

Eight U.S. Snap-on factories employ more than 2,200 associates who are driven to create tools to help professional technicians do their jobs more effectively.

Snap-on is proud to be an American company for 95 years. Today, eight Snap-on manufacturing facilities in the U.S. are focused on making products to meet the demanding and ever-changing needs of professional technicians. These factories employ more than 2,200 dedicated associates who take great pride in making everything from wrenches to sockets to power tools to entire tool storage systems. They use

their minds and hands to take, in many cases, raw steel and form it into products that make your work easier.

One such Snap-on factory, in Milwaukee, Wis., manufactures sockets, screwdrivers, pliers, extensions and screwdriver bits. Built in 1980, the plant was expanded in 2014. More than 330 associates work three shifts to produce and ship millions of pieces annually. They employ critical processes such as cold forming, laser welding, heat treat-

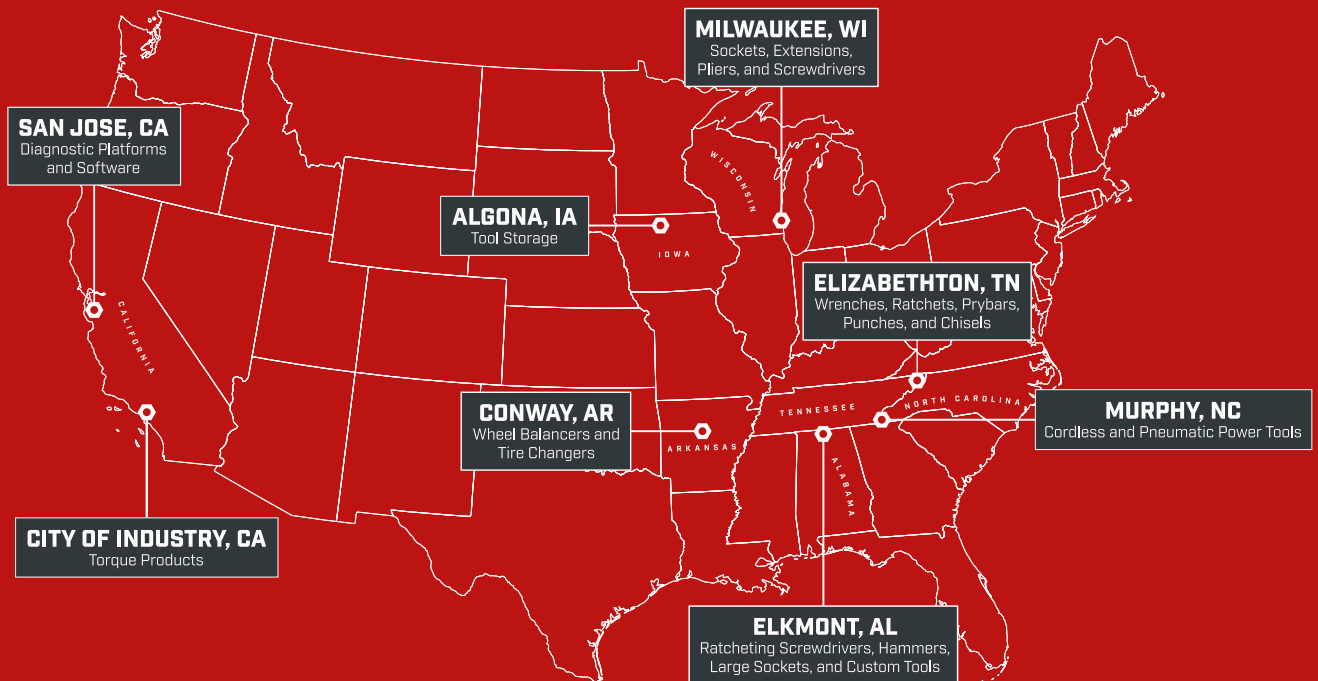
ment and chrome plating to produce these quality products.

Snap-on continues to invest in the people, processes and facilities to maintain its strong U.S. manufacturing base. More importantly, it invests so that it can continue to meet the high expectations of professional technicians who use tools every day to make a living and a career.

See the map below of Snap-on U.S. manufacturing locations where the Snap-on brand takes shape. **PTEN**

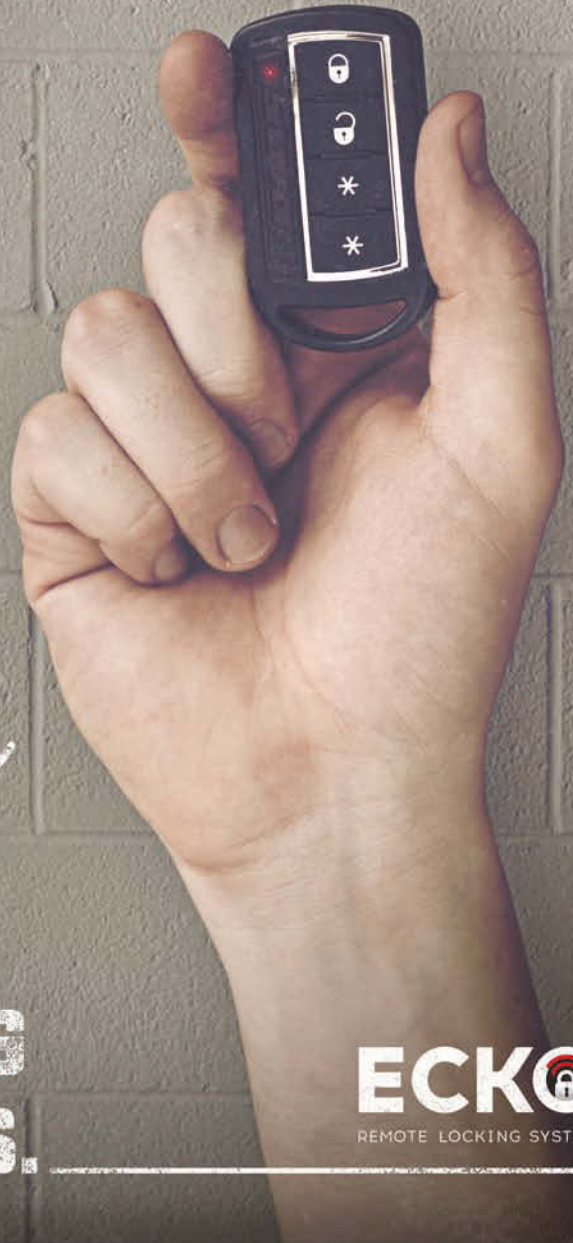


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WE DON'T JUST MAKE TOOLS.

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