

# Automotive

Supplement to Locksmith Ledger International

May 2017

# LOCKSMITHING



# 2017



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# What's NEW for 2017: Detroit Auto Show Review

A locksmith looks at the newest models in the pipeline, naturally paying special attention to their locking systems.

BY STEVE YOUNG

For over 20 years, it has been my privilege to attend the annual “Press Days” at the Detroit Auto Show, which is also known as the “North American International Auto Show” or NAIAS. The “Press Days” are the last couple of days before the show opens to the public in early January. This is when the press conferences are held introducing the new models. I’m sure that you’ve seen some of the stunts that have been staged to introduce new vehicles, such as the Jeep crashing through a window (Photo 1), after being escorted by police from the assembly line. In the infamous 2008 “Cattle Drive” that Chrysler staged to introduce the new Ram (Photo 2), apparently the cattle didn’t read the script. When the cowboys tried to turn the herd around to go back to the railroad yard during the actual press conference, the



Photo 1. A 1993 Jeep Grand Cherokee makes an entrance through a specially prepared window in 1992.



2017 Infiniti QX30 exterior



Photo 2. The infamous 2008 “Cattle Drive” that Chrysler staged to introduce the new Ram.



Photo 3. one of the new “Birds Eye View” systems



Photo 4. "Autonomous Vehicle" displays



Photo 5. The I.D. Buzz concept from Volkswagen



Photo 6. Interior of the I.D. Buzz

cattle "misbehaved" and upstaged the executives from Chrysler. There's also the infamous "Teleportation" stunt that GM did to introduce a new Corvette. Some of these stunts become legends and some, like the teleportation stunt, were huge flops but it is always interesting to watch.

The press days are also when the engineers and designers are there to answer questions from the press about the technical specifications of the new models. The vehicles themselves are also available for through inspection and photography that is simply not allowed during the public show. For years, I've taken full advantage of the press days to do a lot of research for my car-opening manuals and my newer "Quick Reference Automotive Manual." Each year, I look forward to talking to some of my favorite engineers, some of which have now become friends. I think they like the fact that I ask questions that no one else asks like "OK, where did you hide the emergency lock?" or "Why does this Infiniti have

a Mercedes lock system?" And of course, I get some odd looks when I ask to see the keys, or ask which way the key turns to unlock the door.

I'll never forget the incredulous look that a VW vice president gave me in 1998 at the press conference for the introduction of the "New Beetle." I asked the lady if they had procedures in place to produce duplicate or replacement keys for their (at that time) new lock system. She looked at me like I had suddenly sprouted a second head, and replied in heavily accented English, "Ve give dem *three* keys!" (Within a year my friend, Phil Agius at Framon, was selling every VW dealer in the country a new key machine.)

While the show this year did not have as much flash and showmanship as in some previous years, it was still full of new and exciting vehicles and new technologies. It seems that every year, some new technology becomes the rage and the manufacturers seem to be in a competition to see who can implement the

technology with the most fanfare. In past years, it has been things like in-vehicle roadside assistance technology like OnStar, or safety features like side-impact airbags, or convenience features such as passive keyless entry.

This year, numerous manufacturers were bragging about their new "Birdseye View" camera systems (Photo-3). These systems give the driver an in-dash video display of their vehicle as if seen from above to help with parking and to avoid accidents.

This technology is directly descended from the Hollywood systems that seemingly stop time and allow the actors to walk through a "frozen" scene, such as an explosion, car crash, gunfight or other three-dimensional reality. The process involves many camera views of the same scene shot from many different positions. A powerful computer processes all of the images and then can extrapolate a realistic image, essentially a computer



Photo 7. Chinese automaker GAC display



Photo 8. More from China



Photo 9. Alfa Romeo Stelvio, the first SUV from Alfa Romeo designed for sale in the US



Photo 10. New Fiat 124 Spider



Photo 11. Chevrolet Bolt, an all-electric vehicle

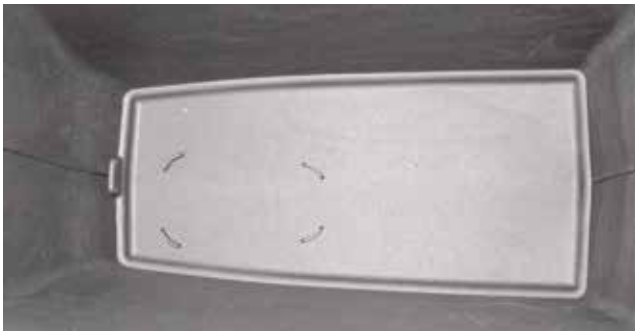


Photo 12. The programming "slot" for the prox-fob used on the bolt is located at the bottom of the center console.



Photo 13. 2018 Ford F-150

animation based on all of the images that appears to be from any vantage point. The automotive systems are not nearly that complex and only produce an image from one position (overhead) but they still do an impressive job of simulating reality. These new systems can not only keep you from backing over the trash can, but can also potentially save pedestrian lives.

This technology may seem frivolous when applied to parking, but it is just one of many spin-off technologies that we will be seeing in the near future from self-driving car systems. The push for self-driving "Autonomous Vehicle" technology has been embraced from everyone from Tesla to Uber, and will be a reality in the near future (Photo 4). It seemed that every major manufacturer has some sort of autonomous vehicle initiative underway that is destined to make our lives easier and safer. At the same time, very few of them seemed to appreciate my jokes about them manufacturing the "foot-soldiers of the robot apocalypse."

Another new technology that seemed to be everywhere was "Virtual Reality" or VR. Many of the displays allowed the viewers to don VR goggles so they could explore vehicle features, watch the manufacturing, or simulate driving. Some like Audi, had VR games and attractions to show off their new technology.

Electric cars have become commonplace at this point, and pretty much everyone has electric vehicles in their production line-up. But, the variety of electric vehicles is growing steadily and the number of electric vehicles available today is staggering. In fact, most of the "Concept Vehicles" that are designed to showcase new design elements and technologies that may influence future vehicles were electric vehicles.

The one that I enjoyed the most was the "I.D. Buzz," (Photo 5), the third VW Bus concept that I've seen in Detroit over the years. The I.D. stands for "Intelligent Design" or "Iconic Design," depending on who you ask. The Term is being generally applied by VW to its new generation of electric vehicles which are all part of VW's stated commitment to an "Electric Future." The I.D. Buzz has it all: it's an electric vehicle, it's capable of autonomous driving, and it's filled with "Environmentally Friendly" materials like bamboo and recycled plastics (Photo 6).

In keeping with the "International" part of the NAIAS name, there are often exhibits from international car makers that are not yet selling vehicles in the U.S. In the past, I've seen exhibits from Chery, Great Wall, and BYD who are all Chinese auto manufacturers.

This year China was represented by GAC (Guangzhou Automobile Industry Group) (Photos 7 and 8) who presented several cars and trucks that they hope to sell in North America in the near future. Not surprisingly,



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Photo 14. Chevrolet Traverse

several of these vehicles looked a lot like existing vehicles offered by other manufacturers. It remains to be seen which Chinese auto maker will be the first to enter the US market, but it's only a matter of time. And, judging from the vehicles that I've seen at NAIAS, Chinese vehicles are improving steadily.

I spent two 14-hour days on the show floor at this year's NAIAS, and I could go on for days about what I saw there, but below are a few of the vehicles that stood out in my opinion. Naturally, I was looking at these vehicles from a locksmith's perspective, but I've also been a "Car Guy" for most of my life, so some of these are vehicles that I might want to drive myself. I'm going to list these alphabetically simply to make the selection easier.

**2018 ALFA ROMEO STELVIO**

I heard several different pronunciations of the name, and frankly I'm not sure how to properly pronounce it, but according to Wikipedia it is

named after a curvy mountain pass in Northern Italy. When this vehicle goes on sale in the US, it will be the first SUV offered by Alfa Romeo (Photo 9). The lock system looks a lot like the Fiat system, and pulling the inside door handle will override the lock system and unlock the vehicle if the keys are locked inside.

**2017 FIAT 124 SPIDER**

Like the Fiat 500, the 124 Spider (Photo 10) is a revival of an older vehicle that was sold at one time in the U.S. In my younger days I worked on and drove several Fiat 124 Spiders and have fond memories of how well they handled. I also have not-so-fond memories of working on the same cars. The new Fiat 124 Spider looks like it would be a hoot to drive and I expect to see many of them on the road soon. Fiat has a new commercial for the 124 Spider featuring the same old guy who dropped the Viagra in an earlier Fiat 500X commercial. I promise that you'll smile when you see it. The lock system on the Fiat 124 Spider is essentially the same as the Fiat 500, so if you are already servicing those, you should be able to service the 124 Spider.

**2017 CHEVROLET BOLT**

Even though the Bolt (Photo 11) and the Volt sound alike and are both Chevrolets,

they are very different. The Bolt is totally electric while the Volt uses a gasoline engine to generate power when needed. The Bolt is a small "Crossover" that looks like it will be popular with the young crowd. Push-button start is standard on both the Volt and the Bolt and both use odd places to program additional fobs. The programming slot for the Volt is on top of the dashboard. The Bolt doesn't have a slot for fob programming; instead it has a spot with raised tabs to hold the fob in the bottom of the center console (Photo 12). You must remove the lift-out liner of the console to access the programming "slot." This liner should allow you to remove and replace the contents of the console easily and neatly.

**2018 FORD F-150**

Ford is calling the 2018 F-150 (Photo-13) a "new" vehicle, but from my point of view, I really don't see many changes. Most of the changes that I've read and heard about are



Photo 15. Genesis G80, a Hyundai spinoff brand



Hyundai Genesis G90 interior



Hyundai Genesis G90 exterior





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Photo 16. 2017 Infiniti QX30, essentially a restyled & rebadged version of 2017 Mercedes GLA



2017 Infiniti QX30 interior



Photo 17. Slot in the dash of Infiniti QX30 is for a typical Mercedes-style FOB.

technological improvements and some “refreshing” of the styling. But from our point of view, making keys and servicing the locks will not change much at all.

### 2018 CHEVROLET TRAVERSE

For 2018, GM has decided to realign its offerings of SUVs. Some, like the Acadia and Terrain will get smaller, and others like the Traverse (Photo-14) get substantially bigger. The new Traverse uses a cable operated lock system with vertical buttons on all



Photo 18. Lincoln Continental

four doors. Thanks to the side-impact safety requirements, the inside handle on the front doors will override the lock system, allowing us to unlock the Traverse easily with a long-reach tool. And like most of the other GM trucks, the Traverse will be using the side-milled 10 cut lock system.

### 2018 GENESIS G80 AND G90

Last year, Hyundai decided to follow the lead of Toyota and Nissan, and spin off its top-of-the-line Genesis vehicles into a whole new luxury brand (Photo 15). 2018 will see the introduction of the first two vehicles in the new Genesis lineup. The G80 is shown here, but the G90 is essentially a longer wheelbase version of the G80, offering extended limousine-like legroom for the rear seat passengers. Push-button start and concealed emergency locks will be standard equipment, but the inside handles will override the lock system.

### 2017 INFINITI QX30

As I was going through the Infiniti lineup, I hit a mental speed-bump when I got to the new QX30 (Photo 16). Instead of the “Start” button that I had expected, there was what appeared to be a typical FOB socket in the dash (Photo 17). I then took another look at the door lock and realized that it sure looked a lot like a Mercedes 2-track lock. I then went looking for someone at the Infiniti information desk for an explanation.

As it turns out, the Infiniti QX30 is a “Joint Venture” with Mercedes, and is essentially a re-styled and re-badged Mercedes GLA, which is also new for this year. I was assured that unlike the Chrysler Crossfire, owners of the QX30 would not have to go to Mercedes for duplicate or replacement keys. No one could tell me exactly how this would work, but I plan to find out as soon as possible. But in the meantime, I think locksmiths should think of the Infiniti QX30 as a Mercedes instead of as a Nissan product. On a side note, the sticker price of the QX30 is less than the price for the GLA, and according to several articles that I’ve read, the build quality, comfort, and convenience aspects of the QX30 are higher than for the Mercedes GLA.

### 2017 LINCOLN CONTINENTAL

I saw the new Continental (Photo 18) last year as a pre-production model and was impressed with its size and retro / modern styling. I couldn’t help but compare the new Continental to the one that JFK was riding in when he was shot, and apparently I’m not alone in that. When I spoke to one of the reps, I brought that up and found out that many in my age group say the same thing. (This seemed to be a puzzling thing for the rep, who was born well after the Kennedy assassination.) He also told me that because of the associations with the Kennedy shooting, there would be no convertible version of the Continental.

Naturally, the lock system interested me the most, and the Continental system is unique. (I normally avoid using the word unique, but in this case it is definitely true.) The Continental does not have an inside mechanical door handle and the door can only be opened from the inside electronically (Photo 19). Even the outside door handles



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only activate an electronic door latch mechanism. To exit the vehicle, you must press a button that is recessed into the armrest.

I asked about safety issues and what would happen if the battery was disconnected or destroyed in a collision. I was assured that the system had been tested rigorously for that situation and that the door latch incorporated a capacitor capable of unlatching the door 30 times with the battery disconnected. The rep also added that it had even been tested under water “just in case.”

The emergency lock cylinder, designed to be used only if the electronics failed in some way, is also interesting. I searched in vain for it,



Photo 19. To exit the vehicle, you must press the button recessed into the armrest.



Photo 20. Continental emergency door lock cylinder concealed in trim along forward edge of driver's door



Photo 21. 2018 Toyota Camry



Photo 22. Volkswagen Atlas full-size SUV

2018 Volkswagen Atlas on the road



2018 Volkswagen Atlas interior

and finally asked one of the Lincoln engineers. When I asked him a big smile lit up his face as he obviously enjoyed how well hidden it was. He then showed me the emergency lock that is incorporated into the trim on the lower forward portion of the driver's side door (Photo 20).

### 2018 TOYOTA CAMRY

Of all the press conferences that I've attended in the last 20+ years, this may have been the lamest one ever – not counting the Corvette teleportation ordeal. Comedy is a difficult thing to pull off successfully and Toyota just doesn't seem to have the knack. But after the presentation was finally over, we got to see the all new Camry (Photo 21) up close and personal. My first thought was “yup, it's a Camry.” While you have to give Toyota credit for trying to update the looks and styling of the Camry, there is only so much that you can do to jazz up a “family car” icon. Yes, it looks sportier than previous versions, but if you saw one in a parking lot today, you would know instantly that it was a Camry. As far as the lock system goes, that is essentially unchanged, other than for the way the emergency door lock is now visible and accessible through a hole in the outside handle.

### 2018 VOLKSWAGEN ATLAS

The 2018 Volkswagen Atlas (Photo 22) is an all new full-size SUV that

will be built in Chattanooga Tenn. This will be the largest VW built on the same platform that is shared by many VW group vehicles including the Audi Q3, VW Passat, Tiguan and many others. This revolutionary platform is known as the MQB, or “Modular Transvers Matrix” which allows the VW group to cut costs by sharing many platform components across a variety of different vehicles of various sizes. This modular system allows VW an unparalleled flexibility for different transversely mounted engine and transmission systems, including gasoline, diesel, hybrid and all electric. The Atlas features a typical VW locking system with the new style concealed door lock cylinder and inside handles that will override the lock system. ■

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# STRATTEC 2017 Update

**S**TRATTEC's new Ford Gen 5 PEPS fobs are now available. The Gen 5 fobs are featured on the 2017 Ford Fusion, F250, F350, F450 and F550. They are also on the 2017 Lincoln Continental, MKC and MKZ.

Please note that the back-up keys are specific to the Ford and Lincoln models. The Ford back-up key will not work in a Lincoln fob and the Lincoln back-up key will not work in a Ford fob.

Part numbers 5929500, 5929503, 5929506, 5929507 and 5929508 are paired with the back-up key, 5929522. Part numbers 5929515, 5929516 and 5929517 are paired with the back-up key, 5929533.

Other products from STRATTEC include the GM logo flip keys, Ford Fiesta fobs and Ford Logo 4 Button IKT Side Mill keys. In addition, the following are among the keys, fobs and remotes available through STRATTEC for 2017 vehicle models. For complete information, visit [aftermarket.strattec.com](http://aftermarket.strattec.com)

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Cadillac models coming soon:  
CT6, CT7, CT6, XT4



2017 Chevrolet Sonic

## CHEVROLET

**Chevrolet Bolt EV:** Passive 5929363  
Emergency Key (Fob dealer only),  
7029949 Door Lock

**Chevrolet Camaro** 2017 High Secu-  
rity Passive: 5929947 Emergency Key  
(Fob dealer only), 7022907 Door Lock

**Chevrolet Cruz and Impala** High Se-  
curity: 591543 and 591545, 5911872  
and 5911873 PEPS and Non PEPS  
keys , 5924366 4-button flip, 5924369  
5-button flip, 591544 4-button PEPS  
and 5912546 5-button PEPS, 7012918  
and 7012919 Ignition and Door Locks

**Chevrolet Sonic:** High Security  
– Chevy Coverage Key Only: Key  
blanks only, 5913598 3-button Chevy  
Logo, 5912543 4-button Chevy Logo,

5912545 5-button Chevy Logo  
**Chevrolet Traverse** uses the 93  
Groove/Z. 592273 remote, 5928819  
key, 709430 and 709431 Ignition and  
Door Locks

**GMC Acadia:** High Security Pas-  
sive, 5929947 Emergency Key (Fob  
dealer only), 7022907 Door Lock

**Chevrolet Trax:**Key Only / Flip  
Style: 5913597 Offset 4-button  
*The following trucks are all high  
security.*

**2017 Chevrolet Express, 2017  
Savana Express:** 5928275 GM Circle  
Plus HS and 4225455 GM logo coined  
key, 5926115: Door Lock

7024124 is the Common Ignition,  
**Express/Savana, Colorado/Canyon,  
Silverado/Sierra and Yukon/Tahoe.**  
7022907/908: LH and RH Door Lock  
for these trucks and SUVs

5928092: 8-cut HS Chevy Colorado  
5928094: 4-cut HS GMC Canyon  
5927928: 10-cut HS Silverado/  
Sierra  
5927933: 10-cut HS Yukon/Tahoe  
5921873: 5-button PEPS, Chevy SS  
5912545: 5-button, Caprice police  
vehicles

**Chevy Volt Electric:** 5929363  
Emergency Key (Fob dealer only),  
7022907 Door Lock

## GM HIGH SECURITY PEPS

PEPS Stands for Passive Entry Start  
or Passive Entry Pushbutton Start  
4- and 5-button versions

Bladed Flip Key – Instead of a  
pull-out blade, GM retained the flip  
for the emergency key

5927057: GM Logo PEPS 4-button  
5927058: GM Logo PEPS 5-button  
5928819: GM Circle Plus Universal

## FORD/LINCOLN/ MERCURY

5929503: New Generation  
5 PEPS, 5 Button 2 Way  
Transmitter 128 bit chip.  
Generation 4 PEPS can  
be used on Genera-  
tion 5 vehicles.



2017 Ford Fusion Sport

5925871: 3 Button Remote  
5925872: 4-Button Remote  
The list of vehicle coverage is  
extensive and listed in the STRATTEC  
catalog.

## FORD TRUCKS

The following part numbers  
are available for the 2017 **Ford  
F250/350/450/550** Super Duty  
trucks: 5923694 (4-button), 5929508  
(3-button Gen 5), 5929503 (5-button  
Gen 5) remotes, 5923293 static 128  
bit key, 5929522 backup key (Gen 5  
specific).

Also for Ford F Series trucks,  
the following one- and two-way  
transmitter PEPS keys are offered:  
5926057 (3-button), 5926061  
(2-button), 5926054 (5-button) and  
5926053 (4-button). Emergency key  
is 4223891.

**Ford F650/750 trucks,** the following  
keys are available: 5912560/5921467-  
IKT; 5913441-IPATS. 2017 F650 and  
750 keys remain edge cut.

Available locksets for Ford F  
Series trucks are: 7026863, console;  
7026751, ignition; 7026856/7026858,  
doors; 7026861, spare tire and  
7026860, tailgate. ■



Ford F350 Super Duty Truck

# VW and Fiat Servicing Made Easier



Smart Aerial from  
Advanced Diagnostics

The Smart Aerial and Force Ignition Tool from Advanced Diagnostics are opening new doors for automotive locksmiths who wish to do VW and/or Fiat work

BY STEVE YOUNG

The long awaited Smart Aerial (ADC-242) from Advanced Diagnostics is now available, and it is opening new doors for those who wish to do VW and/or Fiat work. This tool, in conjunction with the T-Code Pro or MVP Pro and the “Smart Dongle” (ADC-240) greatly simplifies the process of making keys for VW, including the Beetles made from 2006 – 2010. (Future enhancements are planned for other VW and Audi vehicles.) The Smart Aerial will also allow you to pre-code transponder keys for many of the Fiat vehicles including the Fiat 500, 500L, & 500X, Jeep Renegade, Dodge Promaster, and Dodge Promaster City.

The Smart Aerial plugs directly into, and interfaces with, the Smart Dongle. Once installed, and with the proper software, the Smart Aerial can work seamlessly with the T-Code Pro or MVP Pro. The T-Code or MVP pulls information from the vehicle computer and then the Smart Aerial pre-codes a transponder or transponder key for use on that vehicle. This gives the locksmith the ability to produce a key that is identical to an OEM key in moments. Before the advent of the Smart Aerial, you either had to order an OEM key by

the VIN or use a secondary transponder tool and complicated software to produce a compatible transponder or transponder key.

The second new tool from Advanced Diagnostics is the Force Ignition Tool (ADC-222) for VW Beetles made from 2006 – 2010. This tool can be used with or without the Smart Aerial to electronically force the ignition on so that a key can be generated. But, when used together, the Smart Aerial and the

Force Ignition Tool make the job of generating a key for one of these VW Beetles easier than ever before.

## USING BOTH TOOLS TOGETHER

After you have generated a working mechanical key for a Beetle made from 2006 – 2010, you are ready to connect the diagnostic equipment. The Force Ignition tool is attached to the end of the OBD cable that is normally plugged into the OBD port on the car. Then, the Force ignition tool is plugged into the OBD port.



VW Beetle servicing (model years 2006-2010) made much easier



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### FCC#

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IYZ-C01C

08-10 Chrysler 300, 08-15 Town & Country, 10-14 Dodge Caravan, 09-13 Challenger, 08-13 Charger, 11-13 Durango, 08 Magnum, 08-13, 09-12 RAM, 08-12 Grand Caravan, 08-13 Journey, Jeep Grand Cherokee, 08-10 Commander, 09-12 Volkswagen Routan

### FORD PART #

### FCC#

R-FORD-2512

CWTWB1U793

10-14 Ford Mustang, 09-17 Taurus, 08-09 Taurus X, 11-15 Edge, 11-12 Escape, 09-16 Expedition, 11-15 Explorer, 07 500, 11-17 Flex, 11 Focus, 11 Fusion

### GM PART #

### FCC#

R-GM-OUC6-5B

OUC60270  
OUC60221

07-12 Chevrolet Avalanche, 07-13 Suburban, 07-14 Tahoe, 09-014 Cadillac Escalade, 07-14 GMC Yukon

### HONDA PART #

### FCC#

R-HON-HLIK-4B

MLBHLIK-1T

08-12 Honda Accord Coupe ("L" on Blade)

### NISSAN PART #

### FCC#

NIS-903

KR55WK48903

09-14 Nissan Maxima, 07-12 Altima, 13 Altima Coupe, 07-12 Versa (push-button Sedan only), 09-16 GTR, 09-14 Murano, 09-15 Murano Cross Cabriolet, 09-16 370Z, 07 Infiniti G35 Sedan, 08 Infiniti G35, 08-13 G37, 11-12 G25, 13-14 Q60, 14-15 QX70

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Force Ignition Tool



Once the Smart Aerial is plugged into the Smart Dongle, you're ready to go.

The first step is to pull the PIN code from the vehicle computer. If you cannot pull the PIN, you are essentially dead in the water. The PIN is not available from the dealer and it is not available through NASTAF. When the machine prompts you to turn on the ignition, flip the switch on the Force Ignition tool and the tool will activate the ignition without having to turn the key in the ignition. This helps to eliminate Module/Dash lock-outs and other potential problems.

Once you are armed with the

PIN code, you are ready to pull the encrypted transponder data from the vehicle computer. Beginning in 2006 VW incorporated an encrypted copy of the VIN into the transponder data. That means that before you can program it, a new key must already have the VIN data burned into it. In many cases, all of this data can be pulled from the vehicle computer with the T-Code Pro with the proper software or the MVP Pro. When the data is pulled from the computer, it will be displayed on the screen. The Smart Aerial can import this data directly from the diagnostic tool, but it's always a good idea to write down this information just in case. The transponder or transponder key is now inserted into the opening in the Smart Aerial, and the data can be burned onto the key. Once this is done, you have a key that you can begin programming into the car.

If the last two characters of the data that is pulled from the car are



VW Beetle interior

XX, then you will have one more procedure to do before you can actually program the key. The XX indicates that the last Byte of the data that's needed is missing. You will have to determine the value of that last byte before you can proceed, and there are 256 different possibilities. That might sound like huge task, and it used to be, before the Smart Aerial. But with the Smart Aerial, this task can be automated, and in a worst case situation will not take over an hour.

To begin the process you insert the transponder key into the ignition, through the opening in the Smart Aerial. With the Smart Aerial in place, choose the correct option from the menu and the Smart Aerial will begin trying each possibility. Since the Force Ignition tool is bypassing the process of turning the lock with each attempt, you should not have any issues with the dash locking you out because of too many invalid starting attempts. When the correct value is found, the machine records that data and then prompts you to burn the data onto the new transponder. Once that has been done, programming the key should be simple.

Nothing is ever perfect, especially



Fiat programming is similar to VW programming (Pictured is a Fiat 500)

when working on VWs, so these procedures are not guaranteed to work 100 percent of the time. But there are many things that you can do to improve the odds, and the instructions for the tools walk you through those steps in detail. Perhaps the biggest single problem is if an aftermarket radio has been installed in the vehicle. The radio in all transponder-equipped Volkswagens is linked to the anti-theft system. If the radio has been replaced, you can expect to have problems, so that is the very first thing you should check when you get to the vehicle.

### SMART AERIAL FOR FIAT VEHICLES

The procedure for using the Smart Aerial on Fiat and Chrysler



Smart Dongle

vehicles that use the Fiat system is very similar to the VW procedure. Basically, the diagnostic tool is used to pull the 5-digit PIN code from the vehicle. When the PIN

code is displayed on the screen, make sure to write it down. On the same screen as the PIN code, there will be the transponder information listed as the ISO code. The Smart Aerial is then used to burn the ISO code onto the new key, making it essentially the same as a dealer key that was ordered by VIN. At that point, all that remains is to program the key.

If you have a T-Code Pro or an MVP Pro, and want to program VW or Fiat vehicles, you really need to look into the Smart Aerial and the Force Ignition Tool. Both tools together will cost you slightly less than \$500 at this time. ■

For more information, contact your local locksmith distributor or visit <http://www.adusa.us/>.

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## Steck Super Easy Wedge

Many of today's new vehicles may require additional pressure and surface area to spread the force along the door when performing unlocks. Sturdier window



frames may require additional pressure when unlocking the vehicle. Larger vehicles have larger doors which also may require additional pressure when performing unlocks.

Super Easy Wedge (PN 32923) is a larger version of the Easy Wedge to be used as an accessory with Steck BigEasy Lockout kits. Wedges are inserted to create a controlled opening of the vehicle door. Once inserted, inflate the wedge to the desired size and you can insert your BigEasy tool to safely unlock the vehicle. Our bigger wedge can provide more power as well as a bigger opening.

Super Easy Wedge is made in the USA, is a 7 x 9" inflatable wedge made from ballistic nylon preventing slippage in extreme weather. It has a taffeta print on the exterior with a 30 gauge polypropylene insert for stiffness which will lead to ease of insertion into the vehicle. A contact area of 2-1/2 x 4-1/2 delivers 168.75 pounds of force. The bulb has been increased by 50 percent, allowing for fewer compressions to fill the wedge.

**More Info:** [www.steckmfg.com](http://www.steckmfg.com)

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## Jet Auto Keys

Jet Hardware has recently introduced a number of new auto keys. Included are keys for Isuzu and GMC trucks (B113-NP),

Subaru Impreza, Forester and many other models (SR10-PHT) as well as for the 2014+ Nissan Rogue (DA41-PHT) – the only available aftermarket model available.

In addition, Jet is exclusively offering the new Yamaha YH65-NP key for the 2015+ YZF-R3. This is in addition to their extensive Motorcycle Key blank lineup which includes replacement blanks for the Harley-Davidson Sportster, Honda CBR, Grom, Triumph and many other popular models.

**Their entire line can be seen at [www.jetkeys.com](http://www.jetkeys.com) or call 855-COOL-KEY for more information.**

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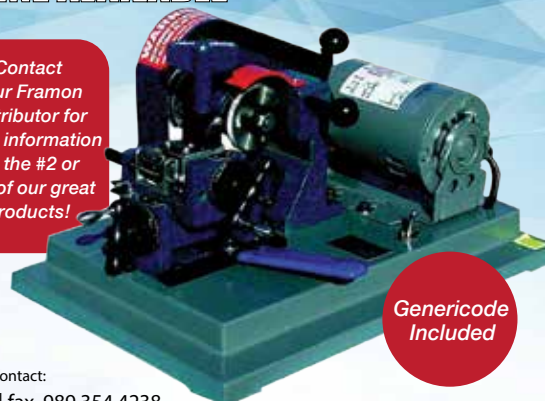
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### Smart Aerial

Simplify and streamline the overall time for programming keys and minimize the use of additional pre-coding tools. Smart Aerial will automatically configure tools with Advanced Diagnostics programming devices (MVP Pro, T-Code Pro) connected via Smart Dongle.

Smart Aerial can pre-code data onto ID48 and ID46 transponders found within various automotive keys. The pincode reading software (ADS185 and ADS219) must be installed on the programming device before these transponders. Pre-coding data is seamlessly read and automatically written onto a blank transponder. Simply connect the Smart Aerial to a Smart Dongle that is used with an Advanced Diagnostics programming device, and insert the key into the dedicated key slot to begin the process.

Software Required: ADS231, ADS258 Fiat® (ID46), ADS219 VAG® (ID48)

More Info: [www.ilco.us](http://www.ilco.us)

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### Keyline 884 Mini Upgrade

Keyline introduces its Bluetooth and Battery Pack Adaptor, the next-generation rechargeable battery with Bluetooth technology to use 884 Mini wirelessly with iOS (Apple®) as well as Android devices. In addition to Bluetooth capability, the added feature of a battery pack allows users even more flexibility for mobile use.

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### Ford Gen 5 PEPS Fobs

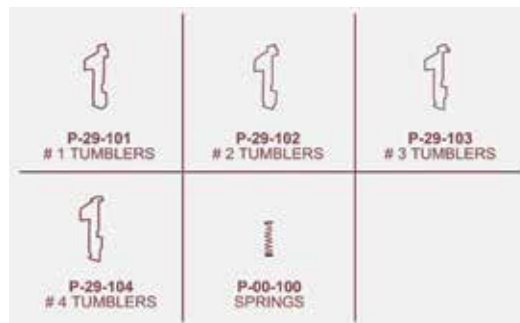
STRATTEC's new Ford Gen 5 PEPS fobs are now available. The Gen 5 fobs are featured on the 2017 Ford Fusion, F250, F350, F450 and F550. They are also on the 2017 Lincoln Continental, MKC and MKZ.

Please note that the back-up keys are specific to the Ford and Lincoln models. The Ford back-up key will not work in a Lincoln fob and the Lincoln back-up key will not work in a Ford fob.

Part numbers 5929500, 5929503, 5929506, 5929507 and 5929508 are paired with the back-up key, 5929522. Part numbers 5929515, 5929516 and 5929517 are paired with the back-up key, 5929533.

**More Info:** <http://aftermarket.strattec.com>

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### ASP Subaru Kit

The newest keying kit by ASP is part number A-29-101 for Subaru locks using DAT17 high security keys and split tumblers. These locks have similar wear out problems as the Honda high security locks. The newest Subarus use the same B110 keyway as Chevrolet Colorado, and the same keying kit A-24-103. A-24-103 includes 2nd generation tumblers, replacing A-24-102 with 1st gen tumblers.

**Contact your ASP distributor to order.**

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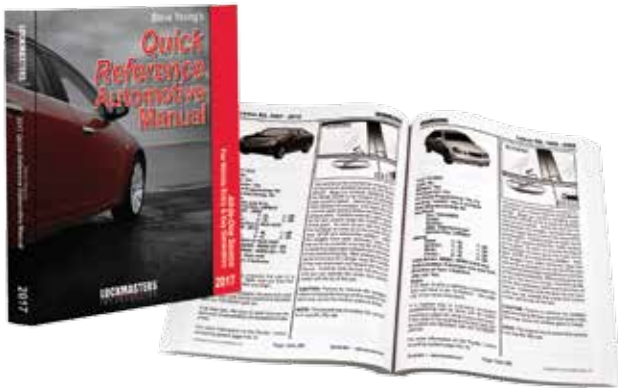


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### Quick Reference Automotive Manual

Steve Young has been producing the definitive vehicle entry manual for locksmiths since 1992. His new manual includes vehicle entry information *plus* key generation information. Designed to cover vehicles sold in North America from 2002 through 2017, the new Quick Reference Automotive Manual (QRAM) arms you with the information that you need. For each vehicle, you will see how to unlock it quickly, easily, and safely. (Part Number QRAM17). You will also learn:

- If it is transponder equipped
- If it has door-mounted airbags
- Key blank information
- Door, Ignition and trunk biting
- Code Series and Code Location (if any)
- Direction of turn to pick the door lock
- Key Generation procedure and recommended tools

A special “Data Section” includes information on relocking systems, reflashing, on-board programming procedures, many transponder systems, VATS, and other systems that you need to understand if you want to be a successful automotive locksmith.

The 2017 edition of the Quick Reference Automotive Manual (QRAM17) includes all that is new for 2017 as well as some 2018 vehicles that will be introduced soon! Here are just some of the new vehicles covered:

- |                                  |                        |
|----------------------------------|------------------------|
| • 2017 Chevrolet Bolt            | • 2018 Honda Odyssey   |
| • 2018 Chevrolet Cruze Hatchback | • 2017 Honda Ridgeline |
| • 2018 Chevrolet Traverse        | • 2017 Hyundai Ioniq   |
| • 2017 Fiat 124 Spider           | • 2017 Jeep Compass    |
| • 2018 Genesis G80, S80 & G90    | • 2018 Kia Stinger     |
| • 2018 GMC Terrain               | • 2018 Toyota Camry    |
|                                  | • 2018 VW Atlas        |
|                                  | • 2018 VW Tiguan       |

**More Info:** [www.lockmasters.com](http://www.lockmasters.com)

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### Solid Keys Chrysler Fobik Key

Solid Keys USA, the product development division of iKeyless, LLC, announces the release of the world’s first universal aftermarket Chrysler Fobik remote key. The new Fobik combines the capabilities of 59 OEM SKUs into a single device and joins a growing line of high-quality, FCC-certified universal keys and remotes designed to help locksmiths and automotive parts resellers simplify their businesses and be more profitable.



Key Features:

- Universal design
- FCC-certified
- Replaces 59 OEM remotes, allowing you to eliminate dozens of SKUs
- Compatible with all standard industry diagnostic tools and equipment
- Six-month warranty

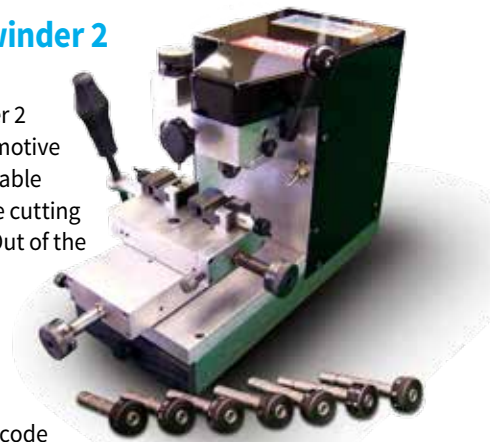
Customers no longer have to purchase imported, unreliable aftermarket keys or pay top dollar for OEM keys from dealerships. With these new universal aftermarket keys, drivers can now enjoy the benefits of a high-quality, FCC-certified remote key without the premium cost associated with OEM.

**More info:** [www.solidkeysusa.com](http://www.solidkeysusa.com)

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### Framon Sidewinder 2

Introduced in 2009, Framon’s Sidewinder 2 allows today’s automotive technician an affordable option to begin code cutting high security keys. Out of the box, the Sidewinder 2 can duplicate just about any high security key in use today. Components are also included to code cut Honda, Volkswagen/ Audi, Lexus Long & Short, GM, Ford, and Hyundai/Kia 4 track keys at time of purchase.



Kits are available for the machine for a variety of other high security manufacturers including BMW, Subaru, Kia/Hyundai 2 track, Infiniti and many others. Two sets of vises, seven cutters and three guides are all included at time of purchase. A coupon for a full version of Framon’s Genericode ME is also packed with the Sidewinder 2.

**More Info:** visit [www.framon.com](http://www.framon.com) where you can also watch a video of the Sidewinder 2 in action.

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