

Automotive

Supplement to Locksmith Ledger International

May 2018

LOCKSMITHING

2018

**Selling &
Programming
Keyless Remotes**

**Automotive Key
Machines That Do
The Job Right**

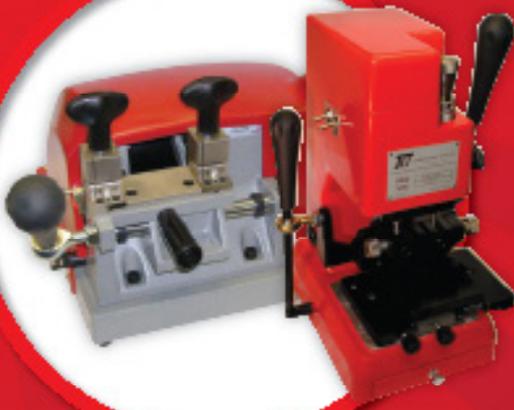
**STRATTEC
2018 Update**

**Automotive
Product Spotlight**



If you want to be the best, you need to use the best!

Jet Hardware leads the industry in replacement keys because
we know you depend on our quality and high standards.



jetkeys.com or Toll Free 855-COOL-KEY

Request Information: www.locksmithledger.com/10172326

The JET logo, consisting of the letters "JET" in a bold, stylized font with a red-to-white gradient.

Automotive LOCKSMITHING 2018

THE TECHNICAL RESOURCE FOR THE PHYSICAL & ELECTRONIC SECURITY SPECIALIST
LOCKSMITH LEDGER
International

PUBLISHED BY SOUTHCOMM BUSINESS MEDIA, INC



PO Box 803 • 1233 Janesville Ave
Fort Atkinson WI 53538
920-563-6388 • 800-547-7377

EDITORIAL

Editorial Director Steve Lasky
800-547-7377 Ext. 2221
slasky@southcomm.com

Editor-in-Chief Gale Johnson
800-547-7377 Ext. 2703
gjohnson@southcomm.com

Managing Editor Emily Pike
epike@southcomm.com

Contributing Editors

Tim O'Leary • Allan Colombo • Tom Brigham
Steve Young • Cameron Sharpe

SALES

Publisher Nancy Levenson-Brokamp
nbrokamp@southcomm.com
800-547-7377 Ext. 2702

Sales Representative Brian Lowy, 800-547-7377 Ext.2724
brlowy@southcomm.com

Sales Representative & Classifieds & Marketplace Kristy Dziukala, 800-547-7377 Ext. 1324
kdziukala@southcomm.com

Art Director Kayla Burger
kburger@southcomm.com

Production Manager Jane Pothlanski
jpothlanski@southcomm.com

Audience Development Manager Jackie Dandoy
jdandoy@southcomm.com

LIST RENTALS

Account Executive Elizabeth Jackson
Merit Direct LLC
847-492-1350 ext. 18
ejackson@meritdirect.com

SOUTHCOMM, INC.

CEO Blair Johnson
CFO Bob Mahoney
VP, Production Operations Curt Pordes
VP, Technology Eric Kammerzelt
Executive VP Gloria Cosby

SUBSCRIPTION CUSTOMER SERVICE

888-556-2272
circ.locksmithledger@omeda.com
PO Box 3258 • Northbrook IL 60065-3258

ARTICLE REPRINTS

Brett Petillo
Wright's Media 877-652-5295, ext. 118
bpetillo@wrightsmedia.com

Locksmith Ledger International (USPS #0587-900), (ISSN #1050-2254 print) is published monthly with an additional issue in December by SouthComm Business Media, LLC. Periodicals postage paid at Fort Atkinson, WI 53538 and additional mailing offices. POSTMASTER: Send address changes to *Locksmith Ledger International*, PO Box 3258, Northbrook, IL 60065-3258. Canada Post PM40612608. Return undeliverable Canadian addresses to: *Locksmith Ledger International*, PO Box 25542, London, ON N6C 6B2.

Subscriptions: One-year subscription prices (13 issues): U.S. \$47; Canada \$57; all other countries \$77, payable in U.S. funds, drawn on U.S. bank. Call: 888-556-2272. Single issues available \$10 prepaid. Single copies *Locksmith Ledger International Security Register*, \$15 prepaid. Canadian GST #R42773848. Printed in USA. Copyright 2018 SouthComm Business Media, LLC.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recordings or any information storage or retrieval system, without permission from the publisher.

SouthComm Business Media, LLC does not assume and hereby disclaims any liability to any person or company for any loss or damage caused by errors or omissions in the material herein, regardless of whether such errors result from negligence, accident or any other cause whatsoever. The views and opinions in the articles herein are not to be taken as official expressions of the publishers, unless so stated. The publishers do not warrant, either expressly or by implication, the factual accuracy of the articles herein, nor do they so warrant any views or opinions offered by the authors of said articles.

CONTENTS

- S4 Keyless Remotes**
When programming remotes, watch out for the small details
- S10 2018 STRATTEC Update**
New product introductions for 2018
- S16 Locksmith Ledger Survey**
Versatility, price and ease of use are top considerations.
- S18 Automotive Key Machines**
Machines from HPC, Ilco, Framon, Intralock Tools and Laser Key Products will get the job done
- S22 Training Opportunities**
Expand your knowledge at these educational programs
- S24 New Products**
Some of the latest keys, key machines, tools, transponder

» Advertisers Index

Company Name	Page	Web Site URL
Framon Mfg. Co. Inc.	S23	www.locksmithledger.com/10172537
Herbert L Flake	S11	www.locksmithledger.com/10173907
HPC, a Hudson Lock Co.	S27	www.locksmithledger.com/10172692
Jet Hardware Mfg. Corp.	S2	www.locksmithledger.com/10172326
Kaba Ilco Corp. (RM)	S9	www.locksmithledger.com/10172820
Keyline USA (Bianchi USA)	S7	www.locksmithledger.com/10172111
Lockmasters Inc.	S13	www.locksmithledger.com/10173488
Midwest Keyless	S19	www.locksmithledger.com/12103643
Southern Lock & Supply Co.	S25	www.locksmithledger.com/10174614
Steck Manufacturing	S20	www.locksmithledger.com/10173492
STRATTEC Security Corp.	S28	www.locksmithledger.com/10173503
Transponder Island	S15	www.locksmithledger.com/11383966

Keyless Remotes: The Devil Really Is In The Details

Selling and programming remotes can be very profitable, but you have to watch out for the small details. The real trick is not to make the same mistake twice!

BY STEVE YOUNG

As an automotive locksmith, keyless remotes have become a large part of my business. Keyless remotes have also become a large “Revenue Stream” for automotive dealerships as well. And, since the auto manufacturers make the rules in this game, they try their best to make sure that any customers that are in search of new remotes find their way back to the dealership. Their main tactic has been to confuse the issue by setting up so many different options on remotes that only the dealership can afford to stock all of the options.

This has proven to be a double-edged sword. By making the subject so complex, dealers that have tried to maintain an adequate stock soon accumulate huge piles of unsold or obsolete remotes. As a result, more and more dealerships have elected to make all but the most common keyless remotes a “special order” item, and only order the remotes as needed. As with most complex systems, the “law of unintended consequences” has brought about some surprising results. By artificially pushing up the price and hassle of purchasing remotes from dealerships, they have opened up new markets to those who buy used or unsold remotes and resell them. They have also given entrepreneurs an incentive to develop “universal” remotes that can replace dozens, if not hundreds of different OEM remotes.

Perhaps the worst unintended consequence is the huge number of knock-off remotes sold online from China, and other countries that don't respect patent and copyright laws. The internet is literally flooded with sites claiming to sell quality remotes at ridiculously low prices. I spend way too much of my time on the phone explaining the facts of life to people who want me to program some cheap remote that they bought online. It didn't take long to discover that using phrases like “What kind of discount do you get if you take your own eggs to Waffle House?” are counterproductive.



Photo 1. Two nearly identical Honda Pilot IRKs. The key on the left releases the rear glass in the hatch, while the key on the right operates the power opening and closing of the entire hatch.

I have learned to offer these people my service as a “flat rate for hooking up the diagnostic computer,” and stress that since they are providing the materials, I cannot be responsible if the remote does not function. Naturally, I set my “flat rate” at about 50 percent more than what I would make for selling them a remote. I never hear back from many of these people, but about half of them have me attempt to program their remote. Of those, about half either have the wrong remote, or have a remote that won't program. Many of those folks wind up buying a remote from me that I can stand behind. I also have a fair number of people come back to me for a reliable remote after the knock-off that they bought fails, or falls apart.

COPING WITH COMPLEXITY

They say that if you “can't take the heat, stay out of the kitchen.” Well, if you want to make keyless remotes a part of your business, you'll just have to learn to deal with the overwhelming complexity that comes with the territory. The best way to make sure that you are selling your customer the correct remote is to begin by getting the OEM part number for their remote. This is not as easy as it sounds. Even if the customer has a remote that has the part number printed on, or molded into the case, you simply cannot trust

that information. Many aftermarket remotes have been “refurbished and re-shelled,” which means that what is inside the shell may not match what is printed on the shell.

If you go to your vendor’s website and look up the remote by make model and year, you may only get the remotes that the vendor stocks, rather than all the possible remotes for that particular make, model and year. As an example, about a year ago I ordered an Integrated Remote Key (IRK) for a friend’s Honda Passport from a vendor. As it turned out, for that particular vehicle, there were two options for the rear hatch, and only one appeared on the vendor website. (Photo 1) The options were for a remote that opened the entire hatch, or just released the catch on the rear window. The key that I received was for the hatch, and the remote that I needed was the one for the window.

Only after I got the OEM part number for her remote was I able to solve the problem. By cross-referencing the OEM part number, which I got with the VIN from the dealer, the same vendor was able to supply me with the correct IRK. The real trick was getting the OEM part number. Since that incident, I have discovered that this is a common problem on Honda SUVs, even those that use a prox fob. It is also a problem with many Lexus and Toyota SUVs that use a prox fob.

Most dealership parts departments won’t give you the part number over the phone. I have occasionally been able to trick them by pretending to be the vehicle owner. The conversation normally goes something like this: “I just bought a [vehicle make and model] for my [non-existent] daughter and the car did not come with a remote. Can you tell me if there is a remote available for it, and if so how much?” At this point they ask for the VIN and I supply that information. If the vehicle is equipped for a remote (something

that I may have already known), they will then give me the price, and tell me about the cost to program it. At that point, I tell them: “My daughter is off at school, but she’ll be back in a couple of weeks. So we don’t have to go through this again, can you give me the part number so I can just order it when she comes back home?” Sometimes this works and sometimes it doesn’t. If it doesn’t work, I may try a different dealer.

I have also cultivated a few dealerships that I do work for to get occasional favors. (Donuts and pre-paid pizza cards can work wonders!) For those dealerships, all I have to do is call the parts department and ask the question. This comes in very handy since I work with several used car dealers that buy and sell at the local auction. Recently, I had a Dodge Journey with no prox fob at one of my dealers, and when I checked, I saw that remote start was an option. The lot that had the car had no idea if it was equipped for remote start or not. After getting the VIN, and a quick call to a dealer that I work with, I was soon on my way to the job with the correct fob and the key code.

On several auto parts websites,

I may be able to get the OEM part number from the VIN, but information from those sites is either hard to get or unreliable. I prefer to go through my local dealer network when possible.

THE TSUNAMI OF 2011

In addition to the devastation and loss of life, the tsunami that struck Japan in March of 2011 has also caused problems for both Honda/Acura and Toyota/Lexus remotes. Although some 2011 models were affected, most of the problems are with models made in the 2012 model year. In the case of Honda, some models were just not made or exported during that time, but the problems are more of an issue with Toyota/Lexus vehicles equipped with prox systems that were manufactured late in the 2011 model year and any prox vehicle in the 2012 model year. As I understand it, one of the vendors that supplied circuit boards for the Toyota/Lexus prox fobs was destroyed by the tsunami. Replacement circuit boards were made by another manufacturer, (Photo 2) but they are not compatible or interchangeable with the original circuit boards, even though the programming is the same and the FCC ID Numbers are the same.



Photo 2. Two apparently identical prox fobs for a 2012 Lexus IS-250. One has the older circuit boards and the other has the newer replacement circuit board. The information stamped on the outside of the case may not be correct and should be ignored.



Photo 3. The two circuit boards from the IS-250 fobs -- similar but NOT identical.

There are two ways to know if you have the correct fob. The first is to open the case and check the circuit board itself. (Photos 3 and 4) The second way is to obtain the OEM part number for that particular vehicle from the VIN, and then cross reference it with your vendor's part number. Once again, the information on the outside of the case, if any, may not be of any help.

TOYOTA / LEXUS ISSUES

And while we're on the subject of Lexus / Toyota prox fobs, the same issue that I mentioned earlier about the rear hatch versus glass release on SUVs is often a problem. Photo 5 shows two virtually identical Lexus fobs except that one opens the powered rear hatch and the other opens just the rear glass. If you look carefully at the buttons, you'll see the slight difference. If you are programming or ordering an additional fob for a customer, look closely to make sure that you are ordering or programming the correct fob.

A question that I get fairly often

involves when to perform an "Immobilizer Reset" on Toyota and Lexus vehicles. The "Add a Key" procedure on ANY Toyota or Lexus vehicle that is programmed through the OBD port *requires* that you insert a "Registered" key into the ignition before you insert

the new key. A "Registered" key is a key that will start and run the vehicle, *and is not a valet key*. If you are in an "all keys lost" situation, you obviously won't have a registered key, so you cannot use the "Add a Key" procedure. If you do not have a working key for the vehicle, or if the only key you have is a valet key, you *MUST* perform an "Immobilizer Reset" in order to program a key or a prox fob.

The "Valet Keys" used in the Toyota / Lexus system are electronic valet keys, rather than mechanical valet keys. A Toyota or Lexus valet key may be able to open the trunk and glove compartment (if they are equipped with a lock) but cannot be used to program additional keys. The OEM valet keys have a grey head, but it is a very dark charcoal-grey, that may appear black if it has a lot of wear on it. In addition, aftermarket keys with a black rubber head can be programmed as a valet key. For those reasons, it is very important that you know how to tell the difference between a master key and a valet key, regardless of the appearance of the key. Fortunately, that job is easy once

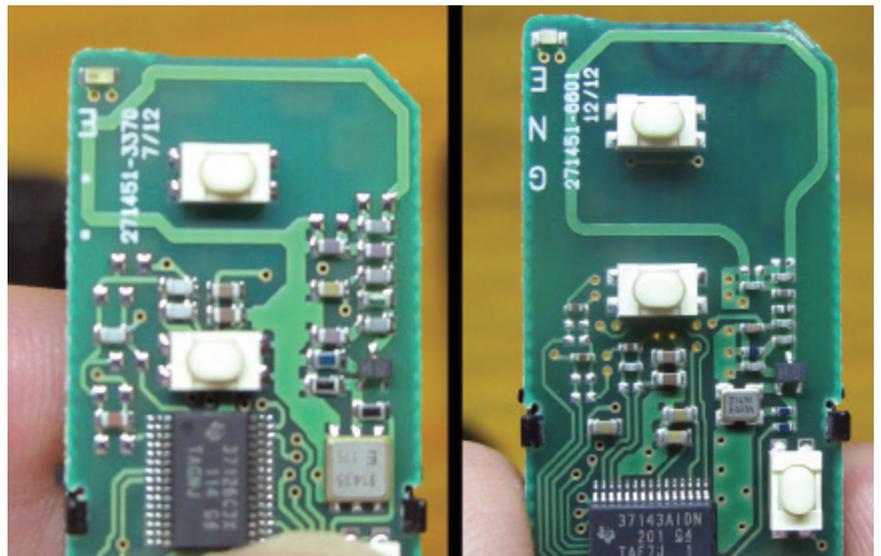


Photo 4. Close-up of the two IS-250 circuit boards. The top button in the photo is the "Lock" button. The board on the left is known as the "E-Board" because of the letter "E" near the lock button. The board on the right is known as the "6601-Board" because of the numbers 6601 stamped near the lock button. These two circuit boards will fit in either case, but are NOT electronically interchangeable. Always check for the correct circuit board when programming a 2011 or 2012 Lexus prox.

EEPROM XTRA. KIT

EEPROM SOFTWARE UPDATE FOR KEYLINE CLONING TOOLS



The safest professional solution to create one or more transponder key copies when the original is not available

4 EASY STEPS FOR KEY CREATION



Run a search of the vehicle whose key you need



Identify the vehicle's immobilizer



Load the extracted .bin file from the EEPROM memory*



Write the data to the cloneable transponder key

- Software update for 804 Mini and 884 Decryptor Ultra; activated to user account with EEPROM activation head
- Clone keys without the original key with Keyline EEPROM software
- Maximizes versatility of Keyline cloning tools and uses Keyline technology exclusively including cloneable keys
- Different from other solutions, EEPROM Xtra does not alter the information stored in EEPROM memory
- Large database of vehicle makes, models and years with diagrams and pictures of EEPROM locations
- Does not require purchase of tokens or additional modules to complete the cloning process
- Requires an EEPROM Reader* to read EEPROM .bin file, then write to the key
- Requires Keyline Cloning Tool program (free download) and a Windows 7 (or higher) PC
- Part Number: EEPROM-XTRA-KIT

*Requires appropriate EEPROM memory device for EEPROM read, easily available to the market, and is reserved for professional professionals

www.keyline-usa.com

A BLANCHI 1770 GROUP COMPANY



BLANCHI 1770 GROUP

KEYLINE
Innovation by Design | Since 1770

Request Information: www.locksmithledger.com/10172111



Photo 5. Another set of nearly identical, but not interchangeable Lexus prox fobs. The fob on the left is intended for SUVs that have a powered rear hatch. The fob on the right is intended for vehicles without a powered rear hatch, and releases the glass portion of the rear hatch.

you know how. If you watch the blinking “Security Light” as you insert the owner’s key, you can tell immediately if it is a valet or a master key. When a master key is inserted, the security light will go out immediately. It is not necessary to turn the key – just insert it into the ignition lock. If a valet key is inserted, the security light will blink one more time after the key has been inserted into the lock.

There are no valet prox fobs, but if you are programming a prox fob in an “all keys lost” situation, you will have to perform an immobilizer reset just as you would if the vehicle were key operated. In addition, if you are adding an additional prox fob, you may still have to perform an immobilizer reset. When you are programming a prox fob, both the vehicle and the fob are programmed to recognize each other. Identification information is “burned” into the fob during the programming process.

If you are using a used or

refurbished fob, the identification data in the fob will not match the vehicle and the fob will not be accepted by the vehicle. The Lexus / Toyota fobs do not “lock” the way Chrysler and some Nissan fobs lock, so there is a “work-around” for using a used or refurbished Toyota or Lexus fob; all you have to do is perform an immobilizer reset and then program in your new fob and the customer’s original fob as well. Performing an immobilizer reset will not be necessary if you are using a brand new fob, or a fob that has been properly “Re-Virginized.”

LOCKING REMOTES AND FOBs

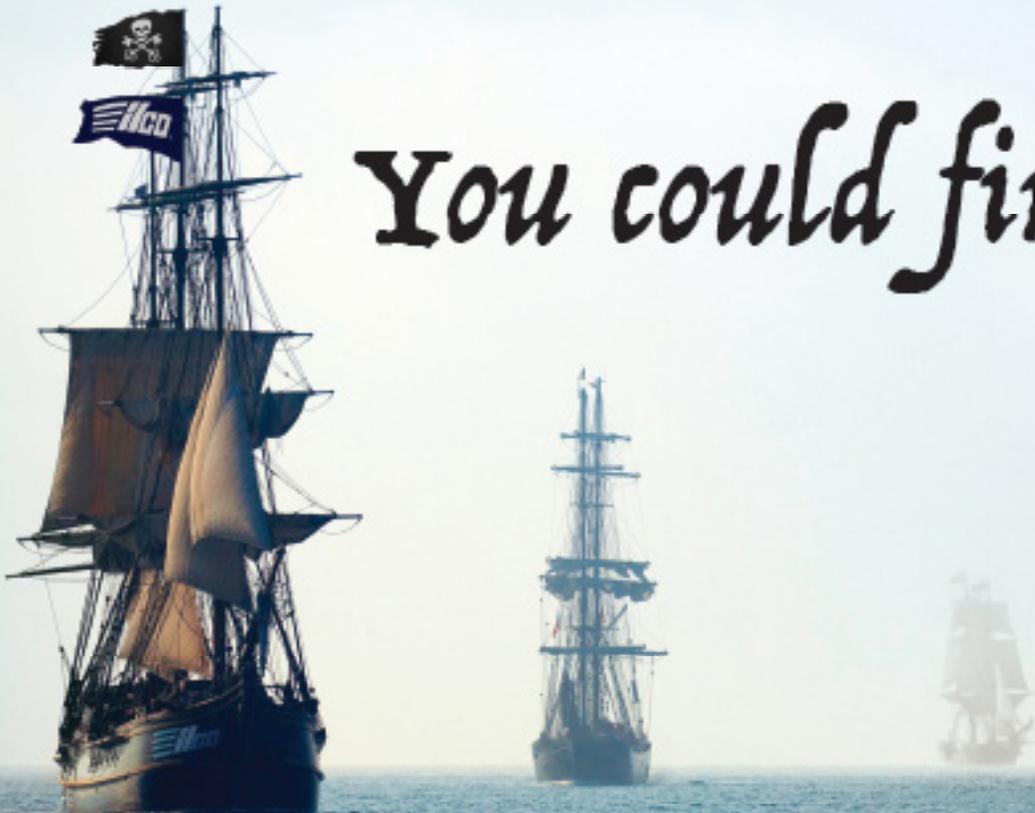
The communication between almost all modern remotes and the vehicle is a two-way communication. In many systems, the process of programming the remote

burns information into the remote that essentially “marries” the remote to the vehicle for life. For that reason, many remotes cannot be re-used on a different vehicle unless the vehicle information is removed or erased. When a used remote can’t be programmed to a new vehicle, that remote is said to be “Locked.” Some remotes can be easily unlocked in the field with simple equipment, such as a cloner, but the process normally requires special information or skills that many locksmiths simply don’t have or don’t want to learn. Most vendors who deal in refurbished remotes are equipped to unlock those remotes. That is not true of many of the cutthroat operators on the internet. As a result, many locked remotes are sold to unsuspecting people and we get stuck with having to educate the victims.

One of the most common locking fobs is the Nissan Prox fob (Photo 6). Nissan now offers more entry level vehicles equipped with push-button starting than any other manufacturer. Some of the prox fobs lock and some do not. Basically, if the FCC ID Number starts with CWTW or KR55, the prox does not lock. If the FCC ID Number starts with KR5S, then it locks. Unfortunately, that “S” can often look like a “5,” so read the number carefully – preferably with a magnifier, or check the listed FCC ID in your vendor literature. ■



Photo 6. A typical Nissan / Infiniti prox fob. Nissan and Infiniti fobs are NOT interchangeable.



You could find...

*...up to a \$1,000
Ilco coin in your next
order of Ilco transponder
keys...*



*details at
www.ilcocoins.com*

Request Information:
www.locksmithledger.com/
10172820

Kaba Ilco Corp. • 1.800.334.1381 • www.ilco.us

New STRATTEC Products for 2018

Automotive locks and servicing procedures vary by year, make and model. STRATTEC Security's comprehensive catalog assists locksmiths in choosing the correct factory original products for the job

BY GALE JOHNSON

Automotive security continues to move towards keyless electronic locking systems. STRATTEC Security supports this movement by providing locksmiths with transponder keys, remotes and locksets for many domestic vehicles plus an array of remotes for popular import vehicles.

A new 2018 comprehensive catalog makes finding STRATTEC parts as simple as possible. A Key Applications section includes on-board transponder programming instructions plus parts listings by make and model. A Key Specifications displays key code series and cross reference numbers between STRATTEC and OEM dealers' parts. An important Remote Applications section lists remotes by make. A Lock Applications includes information on available locks and pinning kits. Pictures and Illustrations are displayed throughout the 2018 STRATTEC catalog. New items shown in the 2018 STRATTEC catalog include remotes for selected years of Toyota, Nissan and Subaru vehicles.

Many 2018 vehicles offer PEPS as standard or as an option. Passive entry passive start (PEPS) is designed to allow vehicle entry and push button engine starting as long as the FOB is in close proximity. In case of electronic failure an emergency key is usually enclosed within the FOB and can be used to unlock the vehicle door.

Some Ford Company models include optional 2-way



2018 Buick Encore

STRATTEC's 2018 Comprehensive Catalog



FOBS, which send locking and starting information and also receive information back from the vehicle on the engine and door lock status.



2018 Buick LaCrosse

BUICK

Passive vehicle security systems are used by 2018 Envision, Enclave, LaCrosse and Cascadia models. STRATTEC offers emergency key 5929947, which is used for all of these models. The Buick FOB for these models is a dealer-only item. A door lock kit 7029949 is available from STRATTEC and can be used for all four 2018 Buick models.

2018 Buick Encore models use a Flip style FOB, 5912555 (3 button) and 5912556 (4 button). An Encore transponder key 7013237 is also available.

Mechanical ignition locks are available for 2018 Regal and Verano models. Ignition lock is part 7012918 and door lock is part 7012919. PEPS keys are 5912555 or 5912556. Non-PEPS keys include 5912558 and 5912559.

Buick Enclave uses a passive security system for 2018.

CADILLAC

New on-board programmable proximity remotes are available from STRATTEC for select Cadillac models. Remotes 5931852 and 5931857 are used for SRX models 2010-2015. Remote 5931855 is used for ATS/CTS/XTS models 2013-2014. Remote 5931856 is used for ATS/ELR/XTS models 2013-2015.

HL H.L. FLAKE SECURITY HARDWARE

**GET YOUR KEYS
TOMORROW MORNING**

FREE!
SHIPPING!

BUY **ANY** 15 REMOTES,
TRANSPONDER KEYS OR CHIPS

**GET
MORNING
DELIVERY!**



CHOOSE FROM THESE POPULAR BRANDS...

STRATTEC

**KEYLINE
USA**

McGO

JMA

JET

ASP

A-TEK

**BASINS
BASINS**

HATTI

*Order by 4pm CST. Offer expires 6/30/18. Must mention Notes/Promo code: FREENDL.
FedEx Next Day Air Envelope arrives by 10:30am in most areas. Verify delivery time for your location with FedEx. Max weight of 4 lbs.



#forthelocksmith
hlflake.com



H.L. Flake - Houston
800.231.4105



McDonald Dash - Memphis
800.238.7541

Request Information: www.locksmithledger.com/10173907



2018 Cadillac Escalade



2018 Cadillac CT6

A STRATTEC emergency key for the remotes, 5912534, is sold separately.

2018 Cadillac CT6 models use a FOB which is dealer-only. STRATTEC door locks 7022907/7022908 and a 5922070 emergency key are available from STRATTEC. 2018 Cadillac CTS and ATS models use a PEPS system. Left and Right door locks are STRATTEC 7022907 and 7022908. The emergency key is part number 5912534. FOBS are dealer-only. Code series is V0001-V6000 laser-cut keys.

2018 Cadillac SRX and XTS models contain a PEPS security system. SRX models require a 7016321 door repair kit. XTS models require left and right door kits of 7022907 and 7022908. The emergency key part is 5912534. FOBS are dealer-only. Code series is V0001-V6000 laser-cut keys.

2018 Cadillac ELR, Escalade and Escalade ESV models use a PEPS security system. Left and Right door repair kits are 7022907 and 7022908. The emergency key part number is 5922070. FOBS are dealer-only.

CHEVROLET

Bolt EV uses a passive security system. Door lock repair kit is 7029949. The STRATTEC emergency part number is 5929363.

Camaro models have a passive security system. Camaro door repair kit is 7022907. The emergency key blank is part 5929947. Camaro FOB is dealer-only. 2018 Malibu models also have a passive security system and use the same door lock repair kit as Camaro. The Malibu emergency key is 5929363. Malibu FOBS are dealer-only.

Impala models are available with either PEPS or non PEPS systems. Ignition repair kit is 7012918 and door lock repair kit is 7012919. 4 and 5 button flip keys and 5 button PEPS keys are available.

Cruze models use a PEPS system. The emergency key is part number 5929363. FOB is dealer-only.

Traverse models use a passive uses a passive security system for 2018. The remote is 5922373.

Chevrolet Trax uses locks made by Huf. STRATTEC does furnish a flip style remote 5913597.

Chevrolet/GMC Colorado, Canyon, Silverado, Sierra, Tahoe, Suburban and Yukon all use laser type key systems. Chevrolet Express and GMC Savanna use GM logo Circle Plus laser blanks of 5928275. Coined blanks of 4225455 are also available. Door repair kit is 5926115.

Express, Savanna, Colorado, Canyon, Silverado, Sierra, Yukon & Tahoe models all share a common ignition lock of 7024124, plus left



2018 Chevrolet Camaro



2018 Chevrolet Colorado Diesel

and right door locks of 7022907 and 7022908. 8-cut laser key blanks 5928092 (Colorado) and 5928094 (Canyon with logos are available. 10-cut Logo keys for Chevrolet Silverado/Tahoe (5927928) and GMC Sierra/Yukon (5927933) are also available.

Chevrolet SS and Caprice PPV models are made by Holden in Australia. PEPS FOB 5921873 is available for Chevy SS and FOB 5912545 is available for Caprice PPV models. Chevrolet Equinox and GMC Terrain will change to passive security for 2018 (Yushin). Chevrolet VOLT will use PEPS security for 2018. Door lock repair kit is 7022907. Emergency key is 5929363. FOB is dealer-only. Chevrolet City Express uses a Nissan platform. STRATTEC Key blank is 7003526. 2018 Chevrolet Captiva is Daewoo-based. STRATTEC key 7011685 circle plus and FOB 5922035 are available.

The GMC Acadia uses a passive security system for 2018. Door lock repair kit is 7022907. Emergency key is 5929947. FOB is dealer-only.

FORD

Ford F150 Raptor is available with a PEPS 2-way FOB (5933019), a PEPS 1-way FOB (5933020) or a static ignition key (5923293). A FOB emergency key is part 5931475.

F25/F350/F450/F550 super duty trucks are available with a 2-way 4 button FOB (5923694), 2-way 3 button FOB (5929509), 2-way 5 button FOB (5926503) and a static key (5923293). An emergency key for the FOBS is part

LOCKMASTERS®

We Have The Tools, Supplies & Training for the Automotive Locksmith



Opening

Key Generation

Programming



Key Blanks & Remotes



At Lockmasters we understand the importance of knowing how a tool works. That is why we support the products we sell, as well as offer the best automotive training in the country.

More training dates coming Fall of 2018.

LOCKMASTERS®
INCORPORATED

Locks, Tools & Equipment 800.654.0637 www.lockmasters.com
Education 866.574.8724 www.lsieducation.com

Request Information: www.locksmithledger.com/10173488



2018 Ford F150

5929522. F series trucks are available with a PEPS 1-way system (5926057-3 button), (5926061-2 button) or PEPS 2-way FOBS (5926054 5-button) (5926053 4-button). A 4223891 emergency key is available. Optional Non-PEPS FOBS for Ford F series trucks are also available. The static ignition key is part 5923293. F series lock repair kits include: ignition- 7026751, left and right door locks- 7026856/7026858, spare tire lock-7026861, tailgate lock-7026860.

2018 Ford F650/F750 lock systems continue with an edge cut lock system, IPAT- 5913441, IKT- 5921467. Ford Fiesta key blanks include button keys 5921709 and 5922964, 5925237(steel), 5925988(nickel silver), 5919918 (FOB) and emergency key 4212475.

Ford Focus key blanks include 5921709 (button), 5922964 (button), 5925988 (nickel silver), FOB 5921286, PEPS 5926059 and emergency key 4212475. Focus BEV modules are available with regular PEPS FOB 5921286, Euro PEPS FOB 5923790 and emergency key 5923267.

C-Max Energi models use Euro PEPS FOB 5923790 and emergency key 5923267. C-Max gas models use keys 592109, 5922964, 5925988, PEPS 3 FOB 5919918 and emergency key 5923267.

Ford Fusion offers optional Gen4 FOB (5923694), Gen5 4 button FOB (5929506), Gen5 5 button 2way



2018 Ford Fusion

(5929500), Gen5 5 button 1way (5929507). An alternative key 5923293 and an emergency key 5929522 are also offered.

Mustang Cobra models use a 1way FOB (5933021) and an emergency key (5931475). Standard Mustang models have a PEPS 1way FOB (5929510), PEPS 2way FOB (5929505) and emergency key (5929522),

Escape models use Euro FOB (5923790) and emergency key (5923267).

Expedition uses PEP FOBS (5921285 or 5921286) or IKT keys (5912512 or 5921467). Explorer models used either 3 button flip FOB (5923667), PEPS FOB (5923896, 5926060 or 5926057) and emergency key (4223891).

2018 Flex models use FOB 5921285 and emergency key (4223891). 2018 Edge models use a passive security system with either a 4 button FOB (5926060), 5 button FOB (5923896) and emergency key (4223891).

Ford Transit uses 4 button key (5925981). Transit FOB is dealer only. Transit Connect uses laser cut keys with 3 button key (5921707), 4 button key (5921709).

Taurus models offer optional Gen2 3 button FOB (5921285), Gen2 4 button 5921298 and emergency key (5912345). Taurus, Explorer and F150 police models use standard 8-cut flat keys (597638). Transit PTV police models use laser keys (5925988).

LINCOLN

2018 Continental, MKC and MKZ models use 5 button FOB (59290515) or 4 button FOB (59295516). An alternative key (5923293) and emergency key (5929533) are also available.

Lincoln MKT uses FOB (5921285) and emergency key (6912345). Lincoln MKX uses 4 button FOB (5925315), 5 button FOB (5925213) and emergency key (4223891). Navigator models use PEPS FOB (5921288) and emergency key (5912345).

With few exceptions, electronic security is now standard equipment on all vehicles and light trucks sold in North America. Modern vehicle security began with the use of 15 different electronic codes for 1986 Corvettes. As thieves invented ways to bypass vehicle security, manufacturers routinely responded with more intricate electronic security systems.

The results of continual vehicle security system changes can be found in the listings above. At one time each manufacturer such as GM or Ford used one key blank for several years and for all of their car models. This is not the case today. Products and servicing procedures constantly vary by year, make and model. STRATTEC Security solves this problem with their comprehensive catalog which assists locksmiths in choosing the correct factory original products for the job.

For more information, contact your local locksmith distributor or: www.aftermarket.STRATTEC.com, 877-251-8798. ■



2018 Lincoln Navigator



TRANSPONDER ISLAND

Automotive Locksmith Keys Tools Supplies

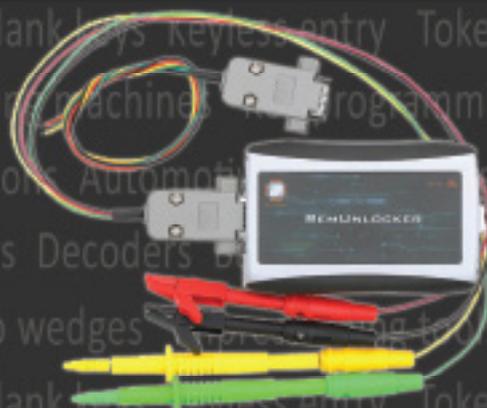
HOT NEW PRODUCTS

Smart Pro™

The latest state-of-the-art vehicle key programmer developed and made by Advanced Diagnostics.

REM UNLOCKER

RemUnlocker Key Re-flashing Machine and Software.
NO tokens needed...



NOW IN STOCK

VVDI KEY TOOL



The VVDI Key Tool is the latest product from Xhorse that is now available with features every locksmith could want including transponder key cloning, key generating and testing, remote frequency testing, as well as a remote and smart key unlocking update coming soon!

\$250



www.transponderisland.com

(1 (866) 757-7778



sales@transponderisland.com

facebook.com/transponderisland

twitter.com/Transponderkey

Request Information: www.locksmithledger.com/11383966

Automotive Locksmith Survey Results

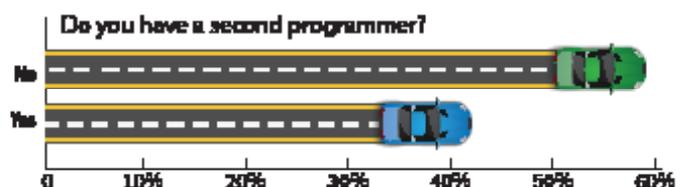
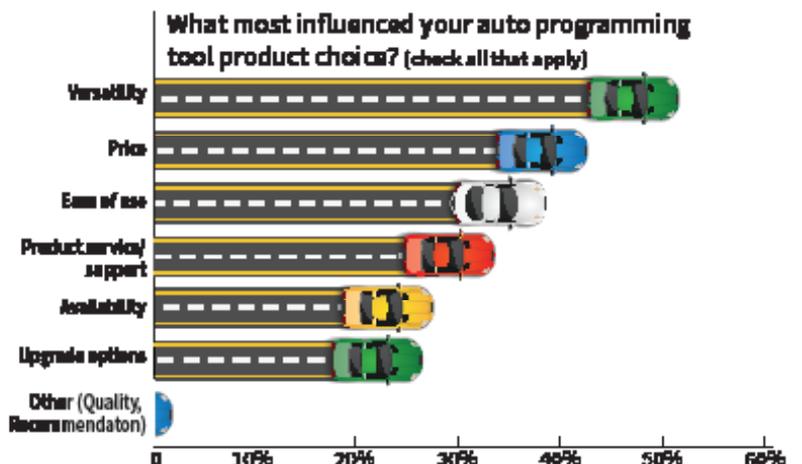
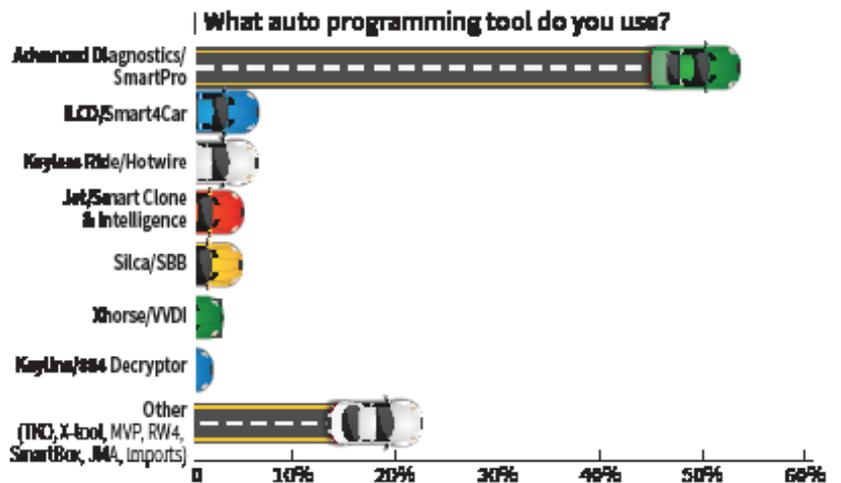
Locksmiths are looking for value when making major purchases. Versatility, price and ease of use are top considerations.

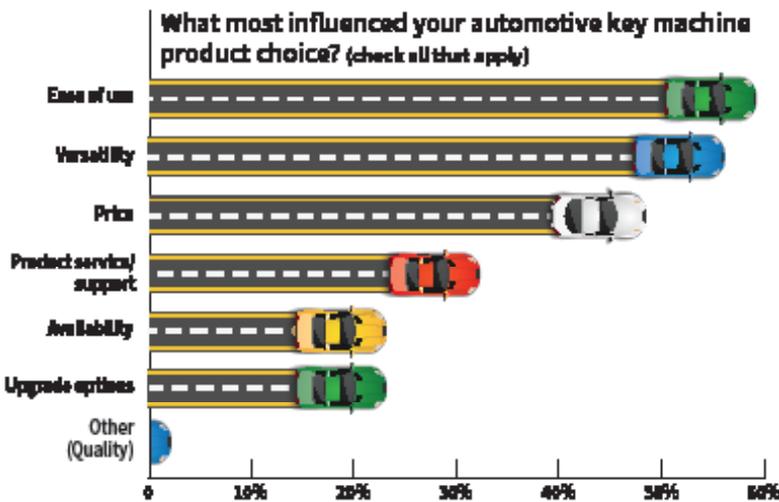
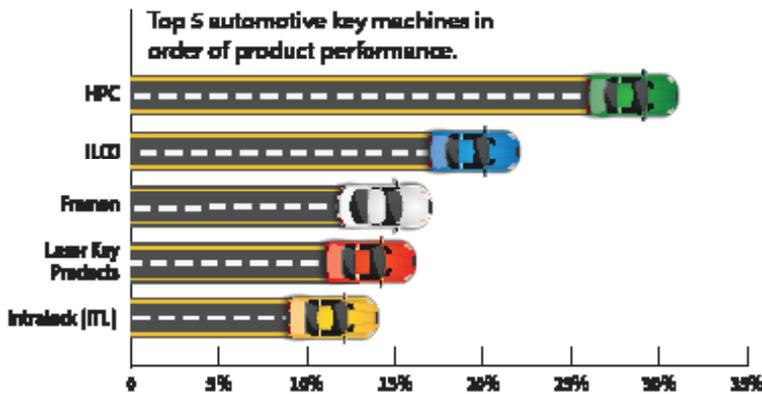
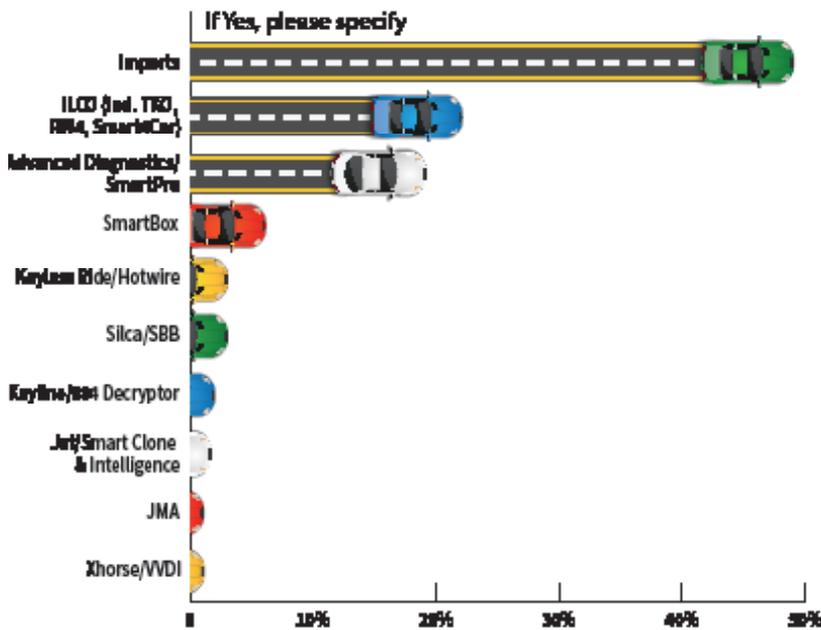


Automotive lock system designs have come a long way during the last 25 years. Vehicle theft reached a high point in Europe during the late 1980s and insurance companies demanded remedial action. The result was the introduction of transponder-based electronic vehicle security systems. Transponder security began in Europe but it is now universally installed on the majority of vehicles worldwide.

Each vehicle manufacturer had their own transponder security idea and automotive locksmiths were originally forced to purchase several different dedicated programming tools, one for each vehicle manufacturer. To solve this problem, aftermarket manufacturers introduced transponder programming tools which have more universal applications.

Vehicle manufacturers continually add greater security protection to their cars on an almost yearly basis. In addition, different vehicle models from the same manufacturer may have different transponder systems. Most aftermarket programming tools have vehicles they can program and vehicles they cannot program.





Locksmith Ledger conducted a recent survey asking automotive locksmiths what brand of transponder programming tool they own and why they purchased that particular tool. Locksmiths were also asked whether they own a second transponder programming tool and 41 percent said they do.

Versatility appeared to be the deciding factor when locksmiths invest in transponder programming. Fifty-one percent of survey participants ranked versatility as most important, followed closely by price (42 percent), ease of use (38 percent), product service/support (33 percent), availability (27 percent) and upgrade options (26 percent).



When purchasing key machines, ease of use was the top consideration (59 percent), followed by versatility (56 percent), price (48 percent), product service/support (32 percent), availability (23 percent) and upgrade options (23 percent).

Please see our charts for full results.

The conclusion that can be drawn from this data is that locksmiths are looking for maximum value when purchasing big ticket items. Price is ranked as slightly less important than versatility. Ease of use and available support/future upgrades are also among the deciding factors.

New programming tools and upgrades are always being introduced. Survey results only indicate the present trend. Locksmith Ledger will continue to inform readers of new transponder programming tool introductions as they become available. ■



HPC Blitz

Popular AUTOMOTIVE Key Machines

Machines from HPC, Ilco, Framon, Intralock Tools and Laser Key Products will get the job done

BY GALE JOHNSON

A recent Locksmith Ledger survey asked readers what type of key machine they were using for automotive code work. We appreciate the volume of readers who answered our survey. Automotive lock and key servicing continues to be an important segment for locksmiths. The following five key machine manufacturers topped the list of code machines in popular use. Although one key machine from each of the five companies is featured, some of the companies mentioned may offer several different mechanical or electronic driven models. Contact your local locksmith distributor or the companies directly for further information.

HPC 1200 BLITZ

Original HPC 1200 and newer 1200 Blitz code machines feature a card system. 1200 machines contain two turning cranks, one for depth and one for spacing. Individual cards contain depth/space markings and information required for originating keys. Cranks are used to move dials to the required depth and space position markings on the cards. First, the spacing dial is set to the required position which moves the key into

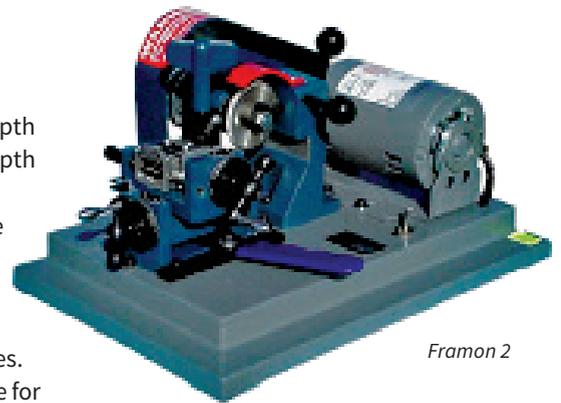
the proper space position. The depth crank is then used to move the depth dial to the desired depth. The key blank is moved inward toward the cutter in unison with the depth dial movement.

Several hundred code cards are available for most popular key types. Optional attachments are available for originating Tibbe and tubular key types.

FRAMON 2

Framon 2 code machines have been available since the 1960s and still remain a locksmith favorite. Framon 2 machines have two turning cranks, one for setting spacing and one for setting depth of cut. Framon Manufacturing offers a depth and space book which is annually updated and contains information for originating almost every type of single sided and double sided key. Both depth and space jaw movement is in a stable horizontal direction which produces accurate cuts for every possible depth of cut.

One revolution of the spacing crank is equal to .050". Calibrations on the crank dial are in .001 increments. As example, four revolutions of the space crank plus revolving an additional .031" would set the spacing at .231". Most lock types use common spacing



Framon 2

such as .098" or .156". Framon offers space blocks for all popular space increments. Once the key has been set for the first space, the auxiliary space block is adjust for cut-to-cut spacing. A locksmith can then move from space-to-space without concern for setting each space by number.

One revolution of the depth crank equals .050". An indicator plate on the Framon 2 contains markings from depths if .100" to .350" in .050" increments. Calibrations on the depth crank are in .001" increments. As example, if a depth cut of .275 is required, the depth crank would be turned until the space pointer was at .250. The crank would then be turned an additional .025" to achieve a depth of .275".

ITL 950C

Intralock Tools manufactures a 950C computerized code machine. It features semi-automatic operation.

Continual manual revolution of a single crank performs jaw spacing motion while the 950C automatically cuts the required depths. Key cutting can be electronically set for plunge or laser cut modes. ITL 950C code machines are preloaded with popular automotive code series. A computerized masterkey program is also included in the 950C key machine.

ITL 950C machines are preloaded with hundreds of depth and space dimensions. New or special depth/space dimensions can be manually added to the ITL 950C memory. A keypad can be used to source the correct depth/space dimensions before entering the desired key cuts. The keypad



ITL 950

can also be used to electronically re-calibrate the ITL 950C in order to change depth of cut, spacing, cutter flat width and cut feed rate. ITL 950C code machines can also be operated by some popular computerized code programs.

ILCO FUTURA PRO ONE

Ilco Futura One is a computerized key code machine which is controlled by a removable 10" touch tablet. Step-by-step instructions on the tablet screen guide the user through all cutting operations. As example, vehicle make, model and year can be chosen on the screen which then will display the code series, key blank and correct jaw and cutter blade for originating the key. Designed and engineered to originate, decode and copy laser or dimple keys. Compact, lightweight and portable, the small size of Futura One makes it ideal for either mobile or storefront use. Decode and copy laser keys by electrical contact to OEM specifications. It includes an extensive range of depth,

Your #1 Source for Automotive Locksmithing

At Midwest Keyless, you will find the widest selection of:

- OEM New & Refurbished Remotes | Lockout Tools
- Transponder Keys | Key Cutting Machines
- Diagnostic Tools | Programmers



KEYLINE USA



30 MINUTE KEYING



ABRITES



Hudson Lock, LLC

IN STOCK



SMART Pro

Proudly Distributing



Sign up for your free account today!

www.mwkeyless.org | 815.675.0404

2414 Highview Street | Spring Grove, IL 60081

Request Information: www.locksmithledger.com/12103643



Ilco
Futura
Pro

space and code tables for originating laser keys. Jaws are included for accommodating almost all North American laser keys. BMW and Mercedes laser keys require optional jaws. LED color changing indicates status of the cutting process.

Futura One accessories include Platinum, Gold, Silver and Bronze packages. Top of the line Platinum package includes an unlimited

software subscription and optional jaws, clamps and cutters. Gold package includes a 10 year software upgrade while the Silver package includes a 5 year software upgrade. All three packages include an engraving option. Bronze package includes a 3 year software upgrade and no option for engraving.

LASER KEY 3D PRO EXTREME

3D Pro Extreme was one of the first electronic code machines to offer both a vertical cutter for laser keys and a horizontal cutter for flat type keys. 3D Pro Extreme is built by a locksmith for locksmiths. 3D Pro Extreme is computer controlled. Drop down menus, pictures and drawings on each screen of the software provide easy steps for originating keys. Quick change collets and well designed jaws simplify changing from originating one type of key to another. Color coded jaws assist in making the correct jaw choice between laser keys and flat type keys. One jaw can be used for all laser auto keys except for VW type keys. All Code machine calibrations can be



Laser Key
3D Pro
Extreme

completed by following instructions on the computer screen. An adapter is available for originating Tibbe keys.

For more information contact your local locksmith distributor or:

- HPC, 800-323-3295, www.hudsonlock.com
- Kaba Ilco Corp., 800-334-1381, www.ilco.us
- Framon Mfg., 989-354-4238, www.framon.com
- Intralock Tools (ITL), 888-264-6627, www.intralocktools.com
- Laser Key Products, 281-339-3501, www.laserkeyproducts.com ■

TOOLS that make your job *EASIER!*

BigEasy™
NIGHT LIGHT

Use your **BigEasy™** unlocking tool at night!
BigEasy and NightLight... a winning combination!

Works with all BigEasy kits!

- BigEasy kits & NightLight will allow you to actuate the lock button, door handle or electric lock to open locked cars day or night.
- For automotive, emergency & other uses.
- Rotate Night Light to direct light to the door panel.
- Suction cup design adheres to window and illuminates area inside.
- 6 angled LED bulbs generate the light beam directly to the door lock.

Requires 3 AAA batteries.

See your local body shop tool dealer
or call 1-800-227-8325



STECK
Innovative autobody tools and equipment
www.steckmfg.com

Request Information: www.locksmithledger.com/10173492



locksmithledger.com presents

CodesExpress

SAVE YOUR POLYBAG – your subscriber number is your **KEY** to your access!

Find your Subscription number on the address label of this magazine

- Over 8500 key code series listings available
- Obtain fast, accurate key code information 24 hours per day
- Depth and space dimensions included
- Key cutting information displayed for popular code machines
- Key blank comparisons shown for major key blank manufacturers
- Now source CodesExpress by PC or smartphone



\$39.95

LOCKSMITH LEDGER
International



Visit www.locksmithledger.com and click on "Codes Express" to access

Automotive TRAINING CALENDAR

Automotive locksmiths can learn about the newest products at a variety of classes offered by manufacturers, distributors and locksmith associations. Most manufacturer websites also offer instructions and tutorials and even dedicated YouTube channels. Here are some upcoming events.



Advanced Diagnostics / Ilco van provides hands-on demos and education

ILCO / ADVANCED DIAGNOSTICS HANDS-ON TRAINING AT IML UTAH

Join Intermountain Lock & Security Supply at its Utah Branch and learn more about Ilco & Advanced Diagnostics Products on May 23. Lunch Provided. This course provides the following:

- New Smart Pro review and demonstration
- Key cutting technology with emphasis on the new Futura Pro
- Transponder keys and cloning capabilities RW4 Plus advantages
- Smart4Car review and demonstration
- Programming Software review through hands-on via simulation
- Customer Equipment review and updates performed
- Hands-On Programming Demonstrations



And hands-on instruction at the recent HL Flake trade show

- Open discussion

The first two hours will be at the IML Utah Branch. Students will then travel to Markosian Auto for 2 hours of hands-on exercises on a variety of vehicles.

Pre-register through IMLSS at www.eventsforce.net/imlss/frontend/reg/tSelectBookingMode.csp?pageID=18984&eventID=76&tempPersonID=24860

Also check online for the full class schedule for the upcoming IML Expo Series: www.imlss.com/events.html

KEYLINEUSA AUTOMOTIVE 101: JUNE 22

Keyline USA Automotive 101 will be offered at the Southern Lock Expo June 22 in St. Petersburg, FL. The two-hour class taught by Joy Skowron meets from 8 to 10 a.m. Following is the class description:

Are you new to Automotive Locksmithing and thinking of getting into the Automotive Market? If yes, this course is designed just for you. We'll be covering the basics of transponders, key machines, and transponder programming. You'll learn about the equipment needed to start saying "YES" to automotive requests and watch your business grow.

TO REGISTER: Contact Sarah Duncan at 727-541-5536 or sduncan@southernlock.com All classes will

be held at the Hilton St. Petersburg Carillon Park 950 Lake Carillon Dr, St. Petersburg, FL 33716

In addition, check Keyline USA's website for educational videos on most Keyline products. Tutorials include:

- Installation procedure with EEPROM Xtra. Kit: Learn how to install the EEPROM Xtra. Kit with 884 Decryptor Mini and Keyline Software.
- EEPROM Xtra. Kit: Creating A New Original Key
- Keyline Ninja Total | Cut by copy of edge cut automotive keys
- Keyline Ninja Total | Decode, cut and engraving of the head of dimple keys
- Keyline Ninja Total | Decode and cut of automotive laser keys

To access these and many more tutorial videos, visit keyline-usa.com/en_US/keyline-tv?area=tutorial

ALOA TENTATIVE CLASS LIST: JULY 8-12

Classes will be held July 8-12 at the Gaylord National Resort & Convention Center, National Harbor, Maryland.

The following automotive sessions are planned (subject to change):

- 1/2-Day Strattec Update
- Auto Essentials
- Automotive Advanced
- Eeprom Basics
- Framon / Blue Dog
- Intermediate Domestic Auto
- Intermediate Foreign Auto

More Info: <http://www.aloa.org/convention/convention-education.html>

In addition, ALOA will offer an All Automotive training session at ALOA headquarters in Dallas, TX, this fall, dates to be announced. More information will be posted at aloe.org/education.

JUST CARS CONVENTION

Just Cars has grown to become the premiere annual automotive locksmithing event. The 2018 show was held April 5-8 in Orlando. It offers classroom training, hands-on intensive courses, vendor demos and stations that include Ignition Repair, Impressioning, Motorcycle Lock Servicing, GM Cluster Repair, and Transponder Dechipping-Reading-Cloning. In addition, EEPROM and high security programming were covered. [Watch the website www.justcars.us](http://www.justcars.us) for information on the 2019 event.

PUREAUTO

Lockmasters. PureAuto Key Generation course offers the student an exciting opportunity to learn the skills needed to generate an automotive

key. This extended hands-on portion of the class includes a wide variety of tools that will enable the student to experience success and gain confidence. Learn to sight-read keys, use scopes to read wafers, impression, use of Determinators, Kobra readers, AccuReaders, Lishi 2-in-1 tools, progressioning, keys by code and more. This course is recommended for the locksmith who wishes to expand into automotive locksmithing, or learn how to better exploit their key generation skills.

The Automotive Transponders class covers Transponder systems made since 1996, programming procedures, key blanks, and tools for most transponder-equipped vehicles in North America. This will include the newest procedures and key blanks

for the newest models. Learn about the CAN Systems and PROX systems. Includes information on programming and troubleshooting: GM, Ford, Chrysler, Honda, Toyota, Mazda, Nissan, Mitsubishi, and VW/Audi. [For information on upcoming sessions, call 866-574-8724](tel:866-574-8724)

FRAMON YOUTUBE CHANNEL

Framon's YouTube Channel, <https://www.youtube.com/user/FramonManufacturing>, offers a wealth of videos covering the all Framon products. The newest video provides a general overview of the Framon 2 Key Machine and how to use it.

Recent additional topics include Adjustments for SD2 kits and Side-winder 2 Out of The Box.

[More Info: www.framon.com](http://www.framon.com) ■



WWW.FRAMON.COM
sales@framon.com



WWW.BLUEDOGKEYS.COM
sales@bluedogkeys.com

Contact BOTH Blue Dog Keys and Framon Manufacturing Company:
989-354-5623 PH
989-354-4238 FX
909 W. Washington Alpena, MI 49707

50 YEAR BIRTHDAY BLOWOUT!

HURRY
Special pricing through June 30!
Act Now!

Order part number **FRA2-50** for this special package

WIDELY RECOGNIZED AS THE MOST ACCURATE & DURABLE CODE MACHINE AVAILABLE

All Aluminum & Steel Construction
Straight In Feed
Made In The USA



Gcode 2018 Included!

FRA2-50 Code Machine

\$1495⁰⁰

Through your Framon distributor

THE FRA2 CODE MACHINE

Promotional price includes

- FRA2 Code Machine
- FC8615 Medeco Cutter
- Genericode Code Retrieval Program
- Instruction Manual
(Depth & Space Manual is NOT included in this special promotion, key cutting information is in Genericode)
- Six spacing Blocks - Spacing Clip
- Brass Shim - Allen Wrench - Dial Calipers

POSSIBLY THE MOST PERFECT CODE MACHINE EVER CREATED...

Request Information: www.locksmithledger.com/10172537



STRATTEC Toyota Remotes

STRATTEC now offers the following Toyota remotes:

- Part number 4931638 for the 1999-2009 4 Runner; 2000-2005 Celica; 2000-2005 Echo, 2006-2008 FJ Cruiser, 2001-2007 Highlander, 2000-2003 Prius and 2001-2005 RAV4.
- Part number 5931639 for the 1999-2009 4 Runner and 2003-2007 Sequoia.
- Part number 5931640 for the 2003-2008 Pontiac Vibe, 2000-2006 Camry, 2003-2008 Corolla, 2003-2008 Matrix, 1999-2003 Sienna and 1999-2003 Solara.
- Part number 5931641 for the 2003-2008 Pontiac Vibe, 2002-2006 Camry, 2003-2008 Matrix and 2002-2003 Solara.

More Info: aftermarket.strattec.com

» Request Information: www.locksmithledger.com/12406362

Smart Aerial

Smart Aerial from Advanced Diagnostics enables locksmiths to write pre-coding data onto various transponders found within vehicle keys. In particular, Smart

Aerial is able to pre-code Fiat® and VAG® transponders from the electronic pre-coding stored in the vehicle and then write the pre-code data onto a blank transponder.

- Pre-codes ID48 (T33), ID46 (T14), Fiat® and VAG® transponders
- Connectivity only via Smart Dongle
- Requires programming device and applicable software
- Plug and play - easy to use
- Automatically configures with Smart Dongle and programming devices

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: <https://advanceddiagnostics.com/SmartAerial>

» Request Information: www.locksmithledger.com/12302586



Ilco® North American Auto/Truck Key Blank Reference

The 36th annual edition of the Ilco® North American Auto/Truck Key Blank Reference is now available for download from the Ilco website. This is a free reference from Ilco. It has been designed to assist those cutting keys with an organized and easy to use reference.

The 2018 Auto Truck Key Blank Reference can be found on the website www.ilco.us under Literature & Support, Key Directory & References. In this location, you will also find several other free key references from Ilco.

Printed copies will be available from Ilco distributors.

» Request Information: www.locksmithledger.com/12406366



Steck's BigEasy Line

Steck Manufacturing's extensive line of Big Easy unlocking tools includes three options:

- BigEasy Glow / EZ Wedge Kit
- BigEasy Glow Kit
- Classic BigEasy Kit

Additional accessories include the BigEasy Night Led light, carrying case, EasyWedge, No-Marring Wedge, BigEasy Extend, BigEasy Loop and Paint Protector.

More Info: www.steckmfg.com

» Request Information: www.locksmithledger.com/12406474

Futura Software Subscription

Ilco has announced two new package offers for Futura Owners:

Futura Software Subscription that was previously available for annually is also now available for three, five and ten years. With each year added, owners can recognize a savings over the purchase of one year. This is available for all Futura Models.

Futura Advantage Packages can help you to build on your Futura's success. Four new attractive accessory packages (including software) are tiered to meet individual requirements. These include Platinum, Gold, Silver and Bronze. The Futura Advantage packages may be added at time of purchase or purchased separately and is available for all Futura Models. A flyer for each of the documents may be found at www.ilco.us, Futura Pro, Documents. Contact your Ilco distributor for pricing.

» Request Information: www.locksmithledger.com/12406369



AutoProAPP

American Key Supply's new AutoProAPP (for registered locksmith customers) can be downloaded for free in the Google Play store. It generates the following car, truck and motorcycle information with a simple year/make/model search:

- Code, tumbler & lock info
- Key, chip, remote & shell info
- Key decoding, cutting & programming info
- Keymaking methods
- Car door unlocking methods
- Remote and key on-board programming (OBP) instructions
- OBD port locations
- Trunk opening methods
- Vehicle-specific videos
- Key Blank Cross-Reference
- VIN Decoder
- Nissan BCM to PIN Conversion
- Tool & Machine References

More Info: www.americankeysupply.com

» Request Information: www.locksmithledger.com/12406367



LET US SHOW YOU THE MONEY!

Qualify for our lowest transponder pricing for the rest of the YEAR!

Prices so low, we can't even show you!




2 WAYS TO QUALIFY:

Lock into **MONTHLY** OR **ANNUAL**

Unlimited Token Packages

- OR -

Purchase or Trade-up to the new Smart Pro™ with Southern Lock



JOHNNY TRANSPONDER'S ELITE TRANSPONDER PRICING

ORDER #	ITEM #	PRICE	ORDER #	ITEM #	PRICE
400-4373	B111-PT	████████	400-4502	B99-PT	████████
400-4320	NI04T	████████	400-4609	Y170-PT	████████
400-4374	Y164-PT	████████	400-4375	H86-PT	████████
400-4450	H72-PT	████████	400-4505	HO01-PT	████████
400-4487	HO03-PT	████████	400-4378	B107-PT	████████
400-4488	TOY44D-PT	████████	400-4459	B97-PT	████████
400-4475	Y160-PT	████████	400-4543	TOY43A14	████████
400-7142	TOY44C	████████	400-7140	MIT17A-PT	████████
400-4504	HD106	████████	400-4529	MIT13-PT	████████
400-7143	B119-P1	████████	400-4358	B112-PT	████████
400-4370	NI02T	████████	400-4369	NI01T	████████

PRICES TOO LOW TO REVEAL!

CALL YOUR TRUSTED SALES PERSON

WWW.SOUTHERNLOCK.COM • 727-541-5536 • SALES@SOUTHERNLOCK.COM

Request Information: www.locksmithledger.com/10174614



Keyline EEPROM XTRA. KIT

Keyline's EEPROM XTRA. KIT software update gives Keyline Cloning Tool

users the ability to clone a key from the key data that is stored in the EEPROM memory of vehicle. This software update works exclusively with the Keyline 884 Mini and 884 Decryptor Ultegra via an activation head to enable the software to the account and in conjunction with the Keyline Cloning Tool program for PC. The software features a large database of vehicles and includes pictures of EEPROM locations by make, model and year.

A separate EEPROM reader, easily available in the market, must be used to access the data from the EEPROM memory, then the .bin file is brought to the user's PC to download to the Keyline software for cloning. This software is different from other EEPROM solutions in that it does not alter the information stored in the EEPROM memory, so if lost keys to the vehicle are found again, they will still work the vehicle.

The EEPROM XTRA. Kit is now available through your preferred distributor.

More Info: www.keyline-usa.com

» Request Information: www.locksmithledger.com/12401575



Midwest Keyless Locksmith Inventory App

Are you a locksmith who is constantly on the run? Do you ever find that you are out of stock on a product? Is managing your inventory too time consuming or frustrating? Then it's time to take control with the FREE Midwest Keyless Locksmith Inventory App! Add or remove inventory using QR Code scanning with the touch of a button, set up automatic refilling to avoid running out of stock on your products, and utilize the group function to manage multiple trucks.

Visit www.mwkeyless.org to view the tutorials and get started

Request Information: www.locksmithledger.com/12343378



STRATTEC Nissan Remotes

STRATTEC now offers the following Nissan/Infiniti remotes:

- Part number 5931636: 2003-2007 Infiniti FX35/45, 2002-2003 Infiniti QX4, 2002-2012 Nissan Frontier, 2004-2006 Nissan Murano, 2002-2008 Nissan Pathfinder, 2003-2006 Nissan Quest, 2002-2012 Nissan Titan and 2002-2012 Nissan X-Terra.
- Part number 5931642: 2003-2005 Infiniti G35, 2002-2004 Infiniti I35, 2002-2006 Nissan 350Z, 2002-2006 Nissan Altima and Maxima and 2007-2012 Nissan Sentra.
- Part number 5931643: 2007-2008 Infiniti G35, 2008-2013 Infiniti G37, 2010-2012 Infiniti FX35, 2007-2012 Nissan Altima, 2008-2014 Nissan Maxima and 2009-2014 Nissan Murano.

More Info: aftermarket.strattec.com

» Request Information: www.locksmithledger.com/12406364

HPC Key Machines

With the TigerShark 2 from HPC you can cut High Security and Standard Automotive Keys, Commercial and Residential Keys, Dimple and Tubular Keys. Plus The Engraving Feature will be a big help on your next Master Keying job. HPC, a division of Hudson Lock, also offers an extensive line of car-opening tools and specialized key machines.

More Info: www.hudsonlock.com.

» Request Information: www.locksmithledger.com/10172692



Cut Automotive Keys and a whole lot more!



HUDSON esp TigerSHARK2

Easy to use interface means that you'll be searching codes and cutting keys as soon as you take your TigerSHARK2 out of the box!



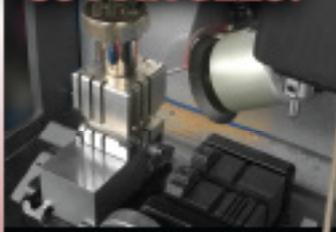
ENGRAVE!



Mill 2- and 4-Track Automotive Keys!

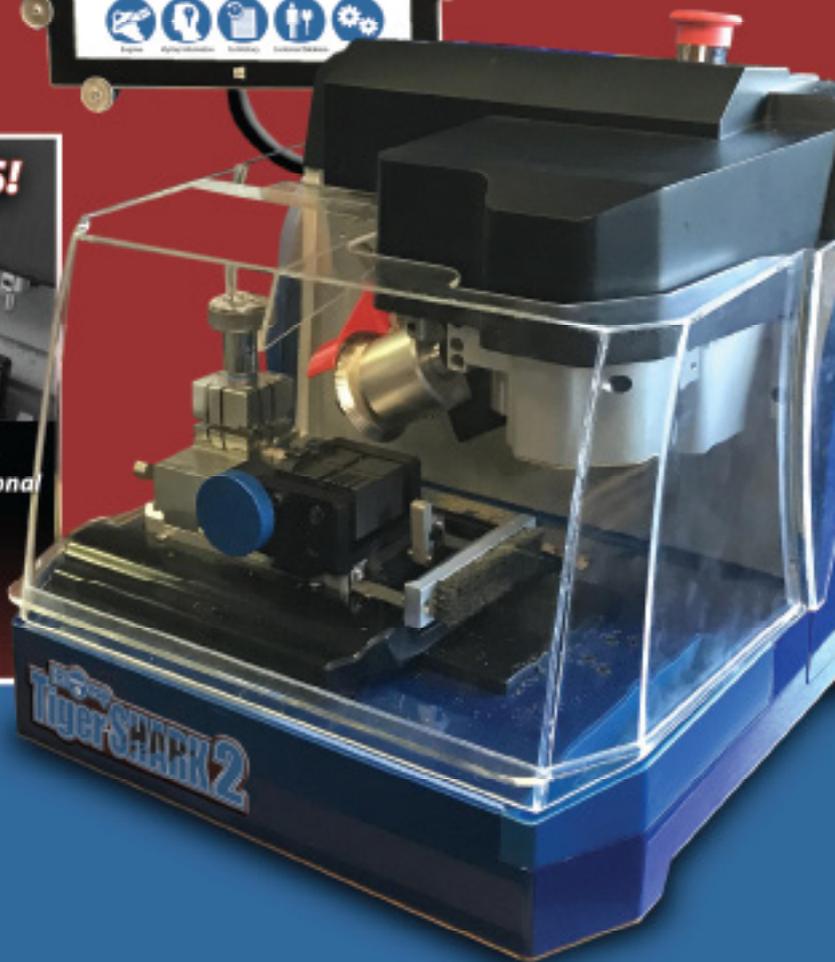
Engrave names, codes or other information onto the head of your keys for easy identification!

CUT ANGLES!



Cut all your Residential, Commercial, & Institutional Keys on one machine!

PLUS, cut Medeco and more with our exclusive Rotating Cutter Head!



HUDSON LOCK, LLC

800.323.3295 · 800.434.8960

www.hudsonlock.com/TigerSHARK2

Request Information: www.locksmithledger.com/10172692



THE LAST THING YOU NEED: **AN UNHAPPY CUSTOMER**

Cheap knockoffs inevitably fail.
Is it really worth the risk?

Offering your customer a STRATTEC key or lock means they're getting nothing less than the best. As an OE-licensed aftermarket supplier for Ford, General Motors and more, STRATTEC helps locksmiths build better customer satisfaction in three important ways:

QUALITY – A STRATTEC replacement upholds the same rigorous quality standards that OE manufacturers demand.

RELIABILITY – STRATTEC's genuine replacement products have a solid reputation for quality, ensuring locksmiths happy, satisfied customers.

SUPPORT – Generations of locksmiths have come to rely on the ready availability of our technical support and product information.



Don't set yourself up for backlash from an unhappy customer, always choose genuine STRATTEC keys, locks and pinning kits.

STRATTEC... DESIGNED TO LAST.

aftermarket.strattec.com

STRATTEC™
AFTERMARKET SOLUTIONS