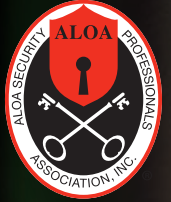


KEYNOTES

SECURING YOUR SUCCESS



A CHALLENGING PROX JOB

No VIN or keys, and a locked-out KVM

**Classroom Security
For Exit Devices**

Installing the Von Duprin 99 CDSI

PLUS

**How to Get a
Legislative Bill
Killed**



Every piece matters. That's why you partner with SECLOCK.

SECLOCK ensures every step of the process is simple. From our unmatched, in-stock inventory and knowledge across electrical and mechanical products to our outstanding support and fast, same-day shipping, SECLOCK simplifies.



info@SECLOCK.com

800.847.5625

SECLOCK.com



**Maddix
gives the
thumbs up
on safes
in stock!**



**FREE
SHIPPING!**

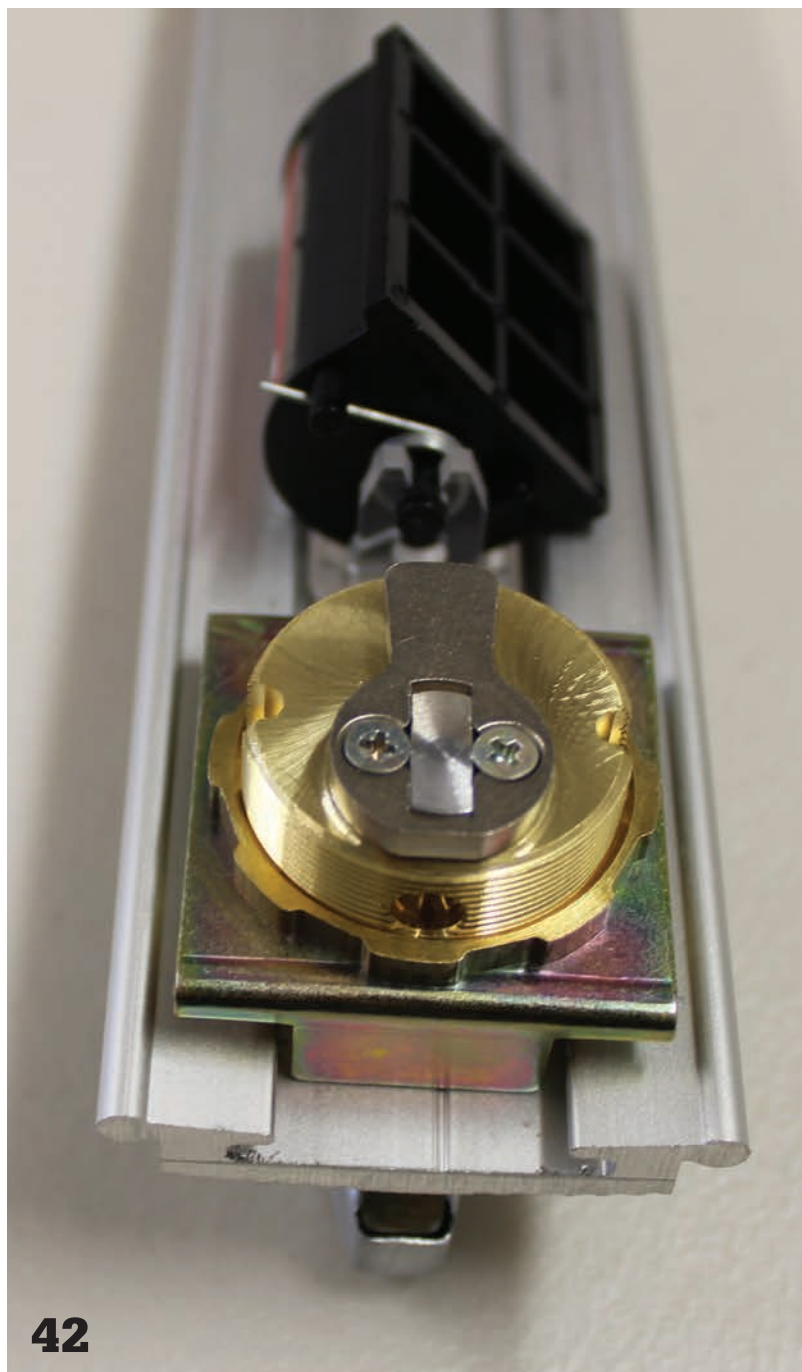
FB-685E with S&G Keypad

HOLLON

SAFE COMPANY

(888) 455-2337

www.hollonsafe.com



42

Features

36

First-time Success

All keys were lost for a 2019 Jaguar F-Pace.

42

A Classroom Security Option From Von Duprin

Greg Perry, CML, CPS, explains the benefits and installation of the Von Duprin cylinder/hex key dogging security indicator.



46

Spotlights

14 Investigative

The world of forensic automotive investigations has evolved beyond the vehicle keyway.

16 Safe & Vault Spotlight

Richard Vigue provides a primer for finding drill points.

24 Legislative

Take these steps to fight local legislation that threatens our industry.

26 Institutional

ALOA has a new partnership with Facilities IQ.

30 Member

Read how one member went from coin collector to master locksmith.

What's New

8 ALOA/Industry News

11 Applicants

11 Calendar

Departments

5 Presidential Perspective

6 Executive Perspective

12 Main Event

29 Products & Services Guide

46 Back to Basics

57 Associate Members

59 Marketplace

60 Ad Index

Sell More Safes!

SAFES Sell Best when Displayed.

>>>>> Get Your Empty Spots Filled.

MAKE MORE MONEY November - December

Bonus Offer: 75% off LED, Dri-Rod, Eva-Dry

CALL Us with Your Safe List Today.

- **STOCK** a Mix of Safe Models
- **PRICE** Each Safe (Retail & Sale Price)
- **PROMOTE** Locally You Sell Quality Safes
- **RE-ORDER** to Fill Empty Safe Spots & Sell More

**IN-STOCK ...
HUGE SELECTION
FREE FREIGHT PROGRAM
(30 STATES)**



IN-STOCK - HUGE INVENTORY:



Gardall

HAYMAN

FREE Freight Program (30 States)
Deliver in 2 – 3 Days



We Help Our Dealers Sell More Safes.

Let us help you build a safe order.

800 - 848 - 9790

Fax: 800 - 391 - 4553

sales@turnten.com

KEYNOTES

NOVEMBER 2021 | VOLUME 67, ISSUE 11

ALOA SPAI STAFF

Executive Director

Mary May
mary@aloea.org

Comptroller

Kathy Romo
kathy@aloea.org

Finance Coordinator

Phyllis Jones
phyllis@aloea.org

Convention Coordinator

Phyllis Jones
phyllis@aloea.org

Convention Consultant

Kelly Parker
kparker@aloea.org

Education Manager

Jim Hancock, CML, CMST
jim@aloea.org

Assistant Education Manager

Joe Peach, CML, CAI
joe@aloea.org

Membership Manager

Kevin Wesley
kevin@aloea.org

Administrative Assistant

Judy Risinger
judy@aloea.org

Legislative & Legal Counsel

Barry Roberts
barry@aloea.org

Education, Marketing & Creative Design Coordinator

Dawne Chandler
dawne@aloea.org

Director of ALOA SPAI Chapters

Robert Mock, RL
(856) 863-0710
chapters@aloea.org

EDITORIAL ADVISORY BOARD

J. Casey Camper, CML, CPS
Tom Resciniti Demont, AHC, CAI, CFDI, CFL, CIFDI, CMIL, CML, CMST, ARL
Tom Foxwell Sr., CFDI, RL
Tom Gillespie, CIL, CML
Gene Gyure Jr., CRL, GSAI, CAI
William M. Lynk, CML, CPS, ICML, M.Ed.
Greg Parks, CRL
Lloyd Seliber, CML
Tony Cagle, CRL
Ed Woods, CML, CPS, CAL

EXECUTIVE BOARD

President

Bill Mandelbaum, CML
president@aloea.org

Secretary

Clyde T. Roberson, CML, CMST
(540) 380-1654

Director, Northeast

Tony E. Wiersielis, PM, CPL, CFDI
(201) 965-7156
aew59@juno.com

Director, Southeast

Tyler J. Thomas, CJIL, CMKA, CRL
(770) 455-6244
sedirector@aloea.org

Director, North Central

Guy Spinello, RL
(815) 222-1486
nedirector@aloea.org

Northwest Region Director

Adrian V. Holley, CRL, LSFDI
HSCBozeman@gmail.com
(406) 570-9782

Director, South Central

Mark E. Dawson, RL
scdirector@aloea.org

Director, Southwest

Guy T. Robinson, CPL, PSP
swdirector@aloea.org

Director, International - Asia

Beta Tam, BA (Hons), FCSFS, RL
btam@alumni.cuhk.net

Director, International - Europe

Hans Mejlshede, CML
intdirector@aloea.org

Director, Associate Region

Noel Flynn, RL
(214) 819-9733
nflynn@aloea.org

Director, ALOA Latino Division

Humberto Villegas, RL
+52-33-3121 7878
americaembajador@aloea.org

Director, Non-Voting

Vernon Kelley, CPL, CFDI, ICML, IFDI
(609) 771-3126
vernon.kelley@gmail.com

Director, Non-Voting

Robert R. Cullum, CPL
(800) 225-1595
bcullum@aloea.org

Trustees

Tom Foxwell, RL, CFDI, CAI
(410) 206-5772
trustees@aloea.org

Director, AIL Division

John Truempy, CRL, CMIL, IFDI, AIL

Director, IAIL Division

Brian VanDenburgh
(219) 743-1018
brian@lockoutexpress.us

Director, SAVTA Division

Michael Potter, CPS, CAI
president@savta.org
(330) 323-4198

Additional contact information for the ALOA SPAI Board is available on the ALOA SPAI website at www.aloea.org or by contacting the ALOA office at 3500 Easy Street, Dallas, Texas 75247. Phone: (214) 819-9733 Fax: (214) 838-9299 E-mail: aloea@aloea.org

PAST PRESIDENTS

2017-2021

James W. Wiedman, CML

2015-2017

Tom Foxwell, RL, CFDI, CAI

2011-2015

Tom Resciniti Demont, AHC, CAI, CFDI, CFL, CIFDI, CMIL, CML, CMST, ARL

2009-2011

Hans Mejlshede, CML

2007-2009

Ken Kupferman, CML, CPS

2005-2007

Robert E. Mock, RL

2003-2005

William Young, CML, CPS

2001-2003

Randy Simpson, CML

1999-2001

John Greenan, CML, CPS

1997-1999

Dallas C. Brooks, RL

1995-1997

David Lowell, CML, CMST

1993-1995

Breck Camp, CML

1991-1993

Henry Printz, CML*

1989-1991

Evelyn Wersonick, CML, CPS

1987-1989

Leonard Passarello, CPL

1985-1987

Joe Jackman, CML*

1983-1985

Stanley Haney, CPL*

1981-1983

Louis LaGreco, CPL*

1979-1981

John Kerr, RL*

1977-1979

Clifford Cox, CML*

1974-1977

Charles Hetherington*

1972-1974

Gene Laughridge*

1970-1972

William Dutcher, RL*

1968-1970

Constant Maffey, RL

1966-1968

Harold Edelstein, RL*

1964-1966

William Meacham*

1962-1964

Robert Rackliffe, CPL*

1960-1962

Edwin Toepfer, RL*

1956-1960

Ernest Johannesen*

*deceased

KEYNOTES STAFF

Publisher

madison/miles media

Editor

Wendy Angel
editor@aloea.org

Ad Sales

Adam Weiss
madison/miles media
(817) 908-7827
adsales@aloea.org

Art Director

Ben Carpenter
benc@madisonmiles media.com

Graphic Designer

Phil Lor

No part of this publication may be reprinted without permission.

POSTMASTER:

Send address changes to: *Keynotes*, 1408 N. Riverfront Blvd., Dallas, TX 75207.

Copyright 2021 ALOA SPAI. All rights reserved.

Mission Statement: The mission of the ALOA Security Professionals Association, Inc., as dedicated members of the security industry, is to ensure professional excellence and ethics; create a public demand for professional locksmith services; represent and speak for the locksmith industry; and expand the exchange of trade information and knowledge with other security-related organizations to preserve and enhance the security industry.

Policies and Disclaimer: *Keynotes* is the official publication of the ALOA Security Professionals Association, Inc. (ALOA SPAI). *Keynotes* does not guarantee the accuracy of any data, claim or opinion obtained or quoted from an acknowledged source. The opinions expressed by the authors do not necessarily reflect the official views of ALOA SPAI. Advertisements and new products or service information does not constitute an endorsement by ALOA SPAI, nor does the Association accept responsibility for the inaccuracy of any data, claim or opinion appearing in this publication due to typographical errors on the part of the authors, Association staff or its agents. ALOA SPAI reserves the right to refuse any article for any reason, and to edit submissions for accuracy, clarity and fairness.

Keynotes (ISSN 0277 0792) is published monthly except for a combined July/August issue by ALOA Security Professionals Association, Inc., 1408 N. Riverfront Blvd., Dallas, TX 75207. Subscription rates are \$25 per year for members. Periodical class postage paid at Dallas, Texas and additional offices.

Automotive Locksmithing: A Changing Field

THE WORLD OF AUTOMOTIVE LOCKSMITHING IS AN EXTREMELY challenging area.

As you read in Mary May's column last month, ALOA is starting an automotive division, aptly named the International Association of Automotive Locksmiths (IAAL). This has been needed for many years.

The days when you could buy about \$200 worth of tools and 50 key blanks and then start doing cars is long gone. Now, one programmer can cost between \$3,000 and \$6,000, not to mention all of the other advanced tools and equipment you need. However, like safes, there is a lot more money to be made in cars and a lot less competition. This drives up prices.

When I started back in 1976, it was much simpler. I can still remember in 1978 when GM went to a screw-retained ignition lock. Many locksmiths had no idea how to work on them, and you had to tear the steering column down to get them out. Gone were the days of the slaphammer. Then came the airbags, and they scared a lot of locksmiths out of doing cars. I remember sitting in a class and the instructor tossed an airbag across the room. We all expected it to explode. Then he explained that it needed an electrical charge to set it off.

Vision for the New Division

What will the new automotive division look like? As of now, we are envisioning it resembling SAVTA: It will have its own board of directors, convention and by-laws. It will have a seat on the ALOA Board of Directors so that its interests are protected (the same as SAVTA is now). The main involvement by ALOA will be in helping set up its convention. Being a smaller gathering than the ALOA Convention (for now), there will be the option of having it in a Tier 2 convention city, which means a lot more possible locations for the convention to be held.

ALOA will continue to offer some automotive classes at the national convention; that will not go away. There is a huge need for automotive classes and, if you do not keep up, the learning curve to catch back up is tremendous. Just ask anyone who decided to get out of it and now wants back in.

The formation of a new division doesn't happen overnight, but we hope to make significant progress toward that goal in the next few months. We're excited to keep you all posted as new information arises.

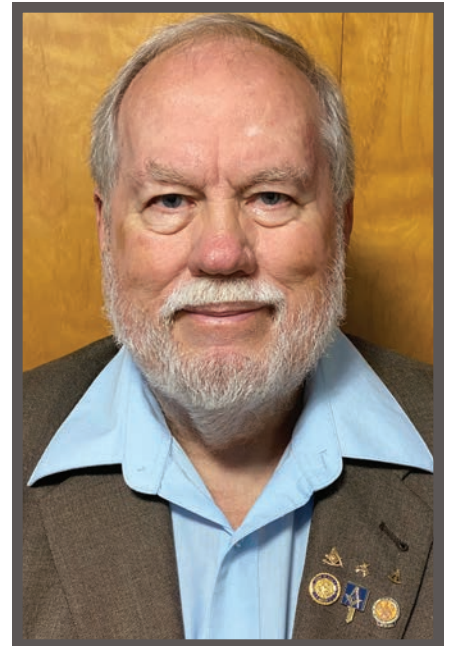


Bill Mandlebaum, CML

President

ALOA Security Professionals Association, Inc.

president@aloea.org



"The days when you could buy about \$200 worth of tools and 50 key blanks and then start doing cars is long gone."

Hopeful and Grateful

THIS TIME LAST YEAR, ALOA introduced its podcast. Hosted by Bill Lynk, the *Locksmith Talk With ALOA* podcast has explored a variety of security-industry topics (and even featured our ALOA presidential candidates for an interview). During the pandemic, we looked for ways to increase our online offerings to members — including education webinars — and the podcast was born from those efforts. The pandemic has sped up the push toward more web-based communication and interaction, and we hope to do more in that area as time goes on.

There have been 12 podcast episodes so far, and I hope you've been able to listen in. We've been on a bit of a hiatus for the summer and fall but hope to get back to recording soon. You can still listen to the previous episodes, though. Search for *Locksmith Talk With ALOA* on your favorite podcast service (Spotify, Apple Podcasts, etc.), or listen on Audible at <https://adbl.co/3BG7xL2>. If you want to suggest a topic, reach out to education@aloe.org.

Membership Benefits and Renewals

This year, ALOA has continued trying to minimize the impact of the pandemic on our members. While we had to temporarily go digital-only for the magazines

in the latter part of 2020, we were able to bring those back to print in 2021. We also saw the return to holding the ALOA Convention & Security Expo this year, and what a success it was! Not only was it great to be able to see everyone in person again, but it also allowed ALOA to secure much-needed income. We are grateful for the improving economy and pandemic situation all over the world, and next year will hopefully be even better.

Despite the challenges of the past two years, ALOA SPAI has continued to serve its members and offer the benefits you have always received (plus new ones!). We've come to you in your homes and offices for education, offering webinars and adapting courses. We're continuing to add to our online offerings, so be sure to take a look at the calendar on ALOA.org to find out more and register. Contact education@aloe.org with your questions and suggestions. If you're interested in teaching a webinar, please get in touch as well.

By now, you've likely received your ALOA membership renewal materials. Please be sure to review and send in your renewals by December 31 to keep your membership active. You'll also see that there are add-ons available, including packages for additional educational opportunities such as webinars. You can renew online at aloe.org, or you can send in the paper forms if you'd prefer. If you



have any questions, please feel free to reach out to us at membership@aloe.org. We are always here to address your questions, concerns and suggestions.

Included in your renewal packets are reminders of some of the benefits you receive, from free professional bonding and *Keynotes* magazine to discounts on education and FindALocksmith.com listings. One item I'd like to highlight again is access to health, vision, dental, life and other insurance programs through LIG. Right now, we are in the open enrollment period, so please take advantage of this affordable benefit! Contact Membership for any questions.

Please continue to stay safe as we wind down 2021. We've hopefully survived the worst, and we will all come out swinging in 2022. Here's to a great end of the year for everyone!

Mary A. May

Mary A. May
Executive Director
mary@aloe.org

A LOA

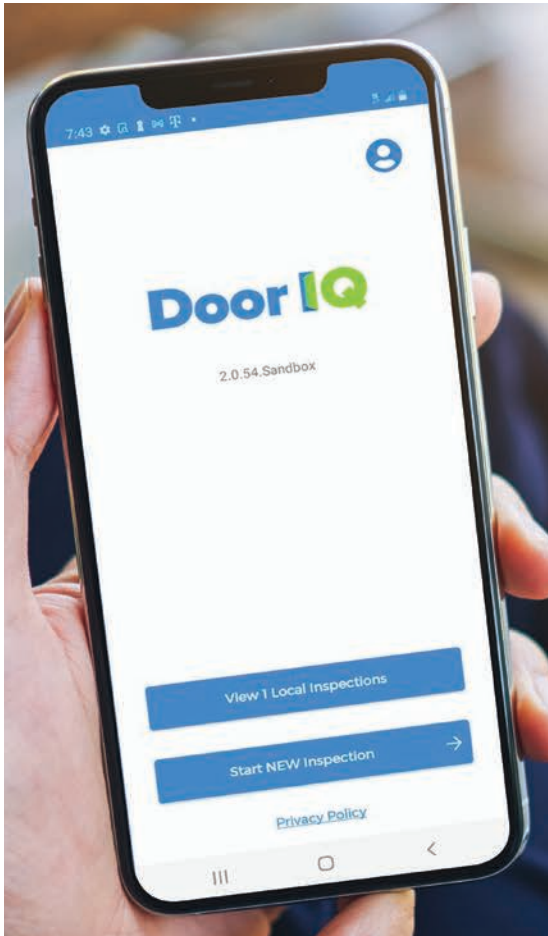
NO LIMITS ♦ 2022

*South Point
Hotel & Casino*

LAS VEGAS, NEVADA

CLASSES: July 24-28, 2022
SECURITY EXPO: July 29-30, 2022



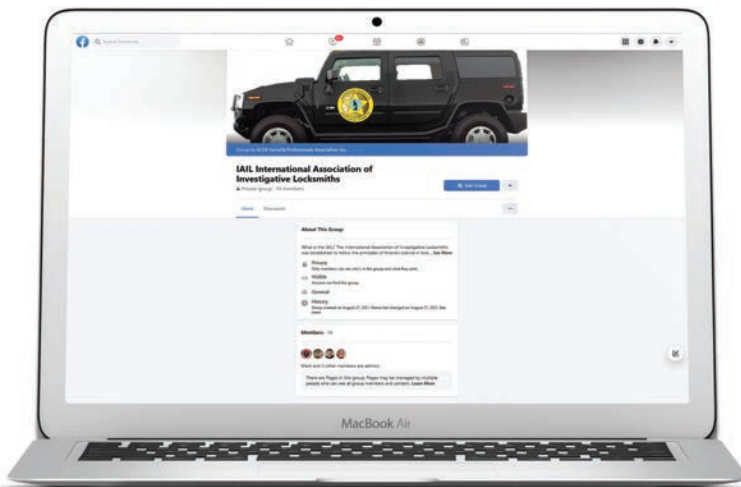


ALOA Partners With Facilities IQ

ALOA HAS FORMED A STRATEGIC PARTNERSHIP WITH FacilitiesIQ, the creators of DoorIQ, a new smartphone app for fire and automatic door inspections. Available for both Android and iOS devices, the app generates a digital and electronic inspection process and reports, replacing the cumbersome paper process. The professional PDF report can be customized with your company's logo and the ALOA seal.

If you register for DoorIQ using the link at <https://bit.ly/DoorIQReg>, FacilitiesIQ will credit you for your first five inspections, a value of \$39.95. Once you register, you can download the app for free by searching for "DoorIQ" on the Google Play Store or Apple App Store.

For more information on Door IQ, see the Institutional Spotlight on page 26.



Join the IAIL Facebook Group

THE INTERNATIONAL ASSOCIATION OF INVESTIGATIVE Locksmiths (IAIL) has created a Facebook group for its members. You must "like" the ALOA Facebook page and be an IAIL member to join. The group allows members to discuss topics of interest, ask questions and more.

To join the group, visit <https://bit.ly/3Ay4UK0>. For questions, contact IAIL president Brian VanDenburgh at ialpresident@aloea.org.

ALOA Attendance at GPLA

ALOA ONCE AGAIN HAD A GREAT attendance at the Greater Philadelphia Locksmith Association (GPLA) convention, held September 24 and 25. This was GPLA's 72nd annual convention, and it was well attended. ALOA has always been a big supporter, and this year, current ALOA President Bill Mandlebaum, four past ALOA presidents, Executive Director Mary May and several board members were in attendance.

Awards for this year included:

- The Lee Rognan Award - Dan Billheimer (SAVTA board member) and Sven Hellwig
- The Gerald C. Connelly Jr. Award - Steve Goldstein
- The Hermann C. Hensler Jr. Award - Barry Wilensky
- The Philadelphia Award - Phil Shearer

Each year, ALOA holds a drawing at the GPLA Convention for a full education package for the ALOA Convention. This year, the winner was Ron Marcinkowski.



ALOA current and past board members and staff had a notable presence at this year's GPLA Convention.



Ron Marcinkowski won the drawing for a full registration package for the 2022 ALOA Convention in Las Vegas. Congratulations!



The theme for the Friday night party was "Circus." We're told this is perhaps the stunt double for Grizzly Adams, or perhaps the "Princess of Pennsauken" according to ALOA President Bill Mandlebaum. Others may know him as just AIL President John Truempy.



The tradeshow at the GPLA Convention had a packed floor.



The winners of the Lee Rognon Award were SAVTA Board Member Dan Billheimer (left) and Sven Hellwig (right).



PRODUCT BRIEFS

» **Capitol Industries** recently introduced the EC731 electronic digital cabinet lock. It's available in both vertical and horizontal mount for both metal and wood applications. It offers an easy retrofit from all standard cam locks to a keyless, electronic push-button cam lock with the ability to switch between private and public modes. It has three levels of management and a mechanical key override, and no wiring is required. MSRP is \$70.



» **Southern Lock** is now stocking Original Lishi 2-In-1 picks and decoding tools, which combine the ability to pick and then decode the cut depths of conventional and vehicle locks. 100 2-In-1 Tools are currently available from LISHI. For the full list of what's in stock at Southern Lock, visit southernlock.com or call 800-282-2837.

» **Codelocks Inc.** has expanded its KitLock range of products with a new slim keyless access control solution for storage cabinets and lockers. The KL1000 G3 is designed for workplaces, staff rooms, storage areas and gyms. It has a key override function, a front-accessed battery compartment and two finishes: silver chrome and black chrome. It has a 24-hour auto-unlock countdown timer in public function and up to 20 user codes in private function. It shares the same fastenings and door prep as the existing KL1000 and can be enhanced with the Codelocks Slam Latch for fast "push shut" closure. For more information, visit <https://www.codelocks.us/g3-inc>.



In Memory of Zack Gilmore



ZACK GILMORE, founder and co-owner of Hollon Safe Company, has passed away at age 57. He founded the company in 2007 and was dedicated to producing quality, affordable safes in a family atmosphere.

He received his bachelor's degree in communications from Texas Christian University and, as he used to say, it was the easiest subject for him since he loved to talk.

His wife Jessica, who co-owned Hollon Safe with Zack, will continue to operate Hollon Safe. If you would like to make a donation in his name please make it to the Corpus Christi Hope House at 3226 Reid Dr., Corpus Christi, TX 78404.

NEWS BRIEF

» **Autel** has moved into its new Autel North America headquarters located at 36 Harbor Park Drive, Port Washington, NY 11050. Its customer service and tech support phone numbers will remain the same.

IN MEMORIAM



» **Billy J. Stratton Sr.** of Lucas, TX, passed away on February 15 at the age of 85. He was a member of ALOA for 33 years.

» **Paul Andrew Badoni**, 75, of Comins, MI, passed away October 8. He was the founder of Apex Lock and Safe Services.

ARIZONA

Chandler

- **Sean M. Estabrook**
American Patriot Lock and Key
Sponsor: Guy T. Robinson, CPL

CALIFORNIA

Chico

- **Herbert W. Bladorn**
LockDoc
Sponsor: Ralph O. Skytte, RL

Colton

- **Mary K. Dunsmore**
So Cal Locksmith

Monterey Park

- **Kenneth W. Belcher**
Belcher Lock & Key

COLORADO

Denver

- **Dor Solomon**

FLORIDA

Fort Lauderdale

- **Travis A. Searle**
Nova Southeastern University
Sponsor: Jimmy R. Ricci, CRL

Fort Lauderdale-Davie

- **Jaime Jaramillo**
Nova Southeastern University
Sponsor: Jimmy R. Ricci, CRL

- **Harold J. Miller**
Nova Southeastern University
Sponsor: Jimmy R. Ricci, CRL

- **Travis A. Searle**
Nova Southeastern University
Sponsor: Jimmy R. Ricci, CRL

- **Melissa M. Sherlock**
Nova Southeastern University
Sponsor: Jimmy R. Ricci, CRL

- **David Vanderlaan**
Nova Southeastern University
Sponsor: Jimmy R. Ricci, CRL

Port St Lucie

- **Keith T. Zettler**
KTZ Lock & Security Inc.
Sponsor: Kevin R. Wilson, CML,
CPS, CFL

LOUISIANA

Baton Rouge

- **Thomas B. Marion Jr.**
Brunson Safe & Lock Co.

CANADA

Toronto, ON

- **Brandon Baum**
Protection Plus Inc.

ALOA CERTIFICATIONS

AMKS

- **Ridhichai Tanchawal, AMKS**
CRL

- **Anthony J. Kowsky, CRL, CAL**
Miramar, FL

- **George Wilson, CRL**
Miramar, FL

We Need Your Help

Attention, ALOA Members: Help us eliminate the industry scammer problem by screening these applicants, who are scheduled for clearance as ALOA members, to ensure they meet the standards of ALOA's Code of Ethics. Protests, if any, must be made within 30 days of this *Keynotes* issue date, addressed to the ALOA membership department, signed and submitted via e-mail to membership@aloea.org or via fax to 469-543-5241. For questions, contact Kevin Wesley, membership manager, at Kevin@aloea.org or (214) 819-9733, ext. 219.

INTRODUCING THE ALOA TECH LINK AND SAVTA TECH LINK MOBILE APPS



Access hundreds of technical articles from *Keynotes* and *Safe & Vault Technology*, right at your fingertips.

- Read technical articles dating back to 2010
- Browse articles by category, keyword, author or title
- Watch videos, read Technical Bulletins, and more



Download the free apps from your smartphone at:
www.aloatechlink.com | www.savtatechlink.com

**CALENDAR**

For a complete calendar of events, visit www.aloea.org.

NOVEMBER

November 3-5
IML Expo Nevada
Orleans Hotel & Casino
Las Vegas, NV
imlss.com

November 17-18
ISC East
Javits Center
New York City
isceast.com

APRIL 2022

April 4-9
SAFETECH 2022
Griffin Gate Marriott
Lexington, KY
conventions@aloea.org or
(800) 532-2562

JULY 2022

July 24-30
ALOA Convention & Security Expo
SouthPoint Hotel & Casino
Las Vegas, NV
conventions@aloea.org or
(800) 532-2562



Experience Unbridled Spirits at SAFETECH 2022!

Save the dates of April 4-9 for SAFETECH.

SAFETECH IS ONLY FIVE MONTHS AWAY! KEEP THOSE DATES SAVED and get ready to experience the unbridled spirits of safe techs from around the globe. After a two-year hiatus due to the pandemic, we're ready to put on the best SAFETECH convention ever.

Join us April 4-9 for five days of classes and the one-day tradeshow. SAFETECH is more than a convention; it's an intimate family-like gathering of the brightest minds in the safe and vault industry. This is a welcoming group and a great opportunity to make new connections, learn and try out some new products.

Location

We will be returning to the Griffin Gate Marriott, the venue for the last SAFETECH convention. This location provides convenient access to both downtown Lexington and the points of interest further north, such as the racetrack and stops on the Bourbon Trail.



The hotel has plenty of complimentary on-site self-parking available for hotel guests, and guest rooms have wireless internet access. For dining at the hotel, there is a Starbucks, a bistro and a restaurant on the golf course. Plenty of dining options are nearby, so go get some Lexington barbecue or a hot brown!

Classes

There are classes for everyone, from those with limited knowledge of safes to those advancing their knowledge to the highest levels. Come distill your knowledge to create high-octane earning potential!

More information on classes will be coming in the next couple of months, with topics covering everything from safe deposit locks to manipulation, electronic lock defeat and more. Keep an eye out for the registration brochure, and more details will be available on SAVTA.org as well. You can also email conventions@aloea.org to be kept in the loop for future communications. See you there! ☺

SAFETECH 2022

April 4-9
Griffin Gate Marriott
Lexington, KY
Hotel rate: \$129 plus tax
Room Block Cutoff: March 12



Modern Forensic Vehicle Investigations: More Than a Keyway

THE WORLD OF FORENSIC INVESTIGATIONS INVOLVING VEHICLES HAS evolved beyond the vehicle keyway. Most manufacturers are moving closer each year to eliminating the mechanical ignition from their lineups of vehicles. In no way does this eliminate the need for a forensic vehicle investigation. Now, automotive locksmiths not only have to be skilled in traditional locksmithing, but they must be part computer programmer, engineer and hacker. The techniques require constant training to keep up with changes. When it comes to making vehicle keys, what was true yesterday may not be true today. As an investigator, it's important to keep up with the changes, equipment and techniques — especially if your primary job is not actually making automotive keys, but rather doing investigations.

Digital Information

Checking with a dealer service department if a key can be made only by a dealer is not recommended. Many manufacturer-trained technicians are clueless about the “other” methods out there. With larger storage chips, the digital information on keys becomes more and more valuable. Traditional key programmers may not show you all the information that's stored. You should be aware that some companies have special forensic viewer software for keys that show more data that's stored in the background. Sometimes it's possible to get VIN, date the key was used, vehicle mileage when last used, temperature outside the last time the key was used and mileage when the key was made. Some key programmers will reveal the VIN stored on the engine computer or other modules in the vehicle. Those VINs can be compared to the vehicle's VIN display or in stolen vehicle databases that can be searched for free on the NICB website at www.NICB.org. Other vehicles may have stored the electronic identification of the last key used to operate that vehicle in their computer.

Signs of Electronic Access

Understanding where the operating key identification is stored for a particular model vehicle is also very important. There may be physical signs left behind of possible electronic access to that data. These could include solder residue on certain points; conformal protective coating missing from the circuit board; evidence of a memory or other device having been removed from a circuit board and manually re-attached for possible reading; broken seals showing the module has been accessed; or wires with pogo pin indentations to tap into the vehicle's system.

The good news is that the more you learn about making car keys, the easier your investigations will be. In the near future, ALOA will be hosting more automotive training. It's my goal to add a day of vehicle forensic investigations to that training whenever possible for IAIL members to keep up with the most modern techniques of possible signs of bypass or surreptitious entry to the vehicle's security system.

One of the reasons I started the new IAIL member-only Facebook page was to share new things we are seeing in the field in real time. This will help us all grow as investigators. No matter your specialty or status working toward your CFL, join our page if you're on Facebook (you must first be part of the ALOA Facebook group to join). Share your findings and help us all grow together. ☺



Brian VanDenburgh is the president of the International Association of Investigative Locksmiths (IAIL). He can be reached at IAILPresident@aloa.org.

Get Published!

IAIL members: Submit your articles for the Investigative Spotlight department. Send your information to Tom Demont at thomas@assatechnicalservicesinc.com.



Every piece counts.
That's why you
partner with
SECLOCK.



The Leader in Electrical and Mechanical Hardware

SECLOCK HAS BEEN THE innovative leader in the mechanical and electrical door hardware and security industry for nearly 40 years and is ready to lead the industry for years to come. Its unmatched inventory, deep technical expertise, simplified distribution, same-day shipping and just-in-time delivery make SECLOCK a true one-stop source, allowing its customers to get just what they need, exactly when they want it.

The Industry's Largest In-Stock Inventory

SECLOCK's in-stock inventory includes the full range of electrical and mechanical door hardware products and accessories — from over 100 premium brands. The company's unique stocking model ensures that every finish, length,

design, voltage, keyway and option is always on the shelf in strategically located warehouses across the country. Plus, the company can reconfigure products to fit a customer's exact specs needed from components on hand. By leading the industry for so many years, SECLOCK has been known to keep old and very hard-to-find items in stock, just in case a loyal customer might need a replacement part!

A Dedicated Technical Support Team

SECLOCK also offers best-in-class customer service with field-experienced and factory-trained Technical Sales Representatives (TSRs) who leverage years of firsthand knowledge to understand your needs to make every job easier. Big or small, mechanical, or electronic, no

question is too tough or obscure. From finding the right part to locating retrofit items that work perfectly with any hardware, they know what works for every project.

These TSRs are available by phone, email and even SECLOCK.com's live chat feature on both desktop and mobile. It's accessible on the bottom-right of any page; simply click the dark gray chat bubble to start a conversation immediately with one of the most knowledgeable reps in the industry. Once you're connected with a representative, you can send images and videos straight from your device, view any product or part that a TSR shares, and more, all through SECLOCK.com's chat window.

Visit SECLOCK.com to learn how SECLOCK can help you move on the path to success, together.

25 Dartmouth Street, P.O. Box 95, Westwood, MA 02090

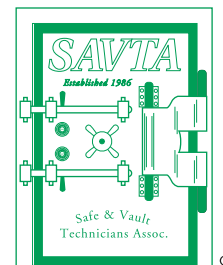
Westwood, MA | Las Vegas, NV | Pompano Beach, FL | Lincolnshire, IL

☎ 800.847.5625

📠 800.878.6400

✉ info@SECLOCK.com

💻 SECLOCK.com



I Need a Drill Point

Richard Vigue provides a primer for the novice safe tech.

“I NEED A DRILL POINT.” THIS IS A REQUEST OFTEN POSTED ON VARIOUS forums by new safe techs and, yes, sometimes even seasoned veterans about safe work. My response is 1" out from dial center at 92. It will work for many safes, as many safes will have an S&G 6730-style lock. This request needs much more information before others can give proper points to drill or other means of opening. The most difficult thing to do is give details before getting input. Locksmiths find it difficult to post anything about the container. This comes from years of keeping information secret, as old-timers did not want to divulge anything that may put another locksmith ahead of them. Times have changed, and now information is freely passed from person to person, so mindsets need changing for those who ask but do not give back.

So how should someone get ready to make this request? Well, first you need to gather as much information as possible. The excuse that you are not able to get to the safe is invalid. All you can get from a customer-supplied picture is an educated guess of brand of container and some ideas of what might be inside. If the customer does not want to pay for the trip, then they need to make an appointment to bring it to the shop so you can do it on premise. Then you'll be able to give a quote from information you can gather in just a few minutes.

OK, what information do you need? Well, first you will need some tools: an amplifier to listen for faint sounds as you search for clues and a quality phone or camera to take pictures of different parts of the container. You definitely need to be adept at sizing the pictures, as some forums such as ClearStar want pictures fewer than 800 KB. You can check on the size easily by right-clicking on the picture as it sits on your computer desktop. You will get a pull-down menu, and the bottom item is "properties." Clicking on that will reveal both the type and size of file. If it is not a JPEG, right-click on the picture and the menu will have "edit" as a choice. Click on it, and the top left has "file" as an option. When you click on it, hit "save as" and choose JPEG, and the top right has "exit." It will ask you if you want to save it, and answer yes.

Gathering Information

Now, with this arsenal, you can gather information about the safe that needs to be opened. First, turn the dial to see how well it is working and adjust as best you can. Then, turn the bolt control handle (BCH) to try to retract the bolts. If it is a direct entry similar to a Sentry-type safe, the dial will bind. This is your first piece of information. If it's not a direct drive, the next step is to put the amplifier on the safe and listen really closely for the sound of a gear. The more you do this, the easier

it will be to recognize. As you become more adept, these two steps will take less than a minute. If you hear or don't hear a gear drive, this is the second piece of information.

Now, the next step also requires the amplifier until you are more experienced. Turn the dial left five full turns, and stop at 50. Now go right to zero and listen for and feel the contact points. An S&G should sound and feel the points at around 6 and 14. These are our next two pieces of information. Now we need a wheel count, so continue slowly left until you get to 40 and continue quickly left to about 60. You should hear a click as the first wheel passes under 50. Now continue left to 40 and again quickly to 60, and you will pick up wheel two. Continue until you have the wheel count. Now you know if this is a 3- or 4-wheel lock.

Time for Photos

It is now time for pictures of the safe. I have chosen a Diebold antique safe to demonstrate what you need to provide. First, get a clear picture of the full front view of the safe (see *Figure 1*). Next, you want to see the BCH (*Figure 2*). Then take a very clear picture of the dial so that any information can be readily seen (*Figures 3 and 4*). *Figure 4* provides a slightly better view. Get a little closer for more detail. If you are having problems because of a lack of illumination, get a large clamp-on or floor stand flood bulb and aim it at a



Figure 1. The first photo you should take is the full front view of the safe.



Figure 2. Next, take a photo of the BCH.



Figure 3



Figure 4

Figures 3 and 4. Make sure the photo of the dial is clear so that any information can be readily seen.



Figure 5. A photo of the caster wheel and skirt can help identify the safe.



Figure 6. Be sure to get a close-up view of one of the hinges.



Figure 7. It's nice to get a picture of dial and BCH, but it's more helpful when you include a ruler for viewing size.



Figure 8. The drill location is shown.

wall behind the safe to eliminate glares, and it should give ample light for your photos. If you are adept, you can adjust the ISO and F stop settings on your camera for better images.

Next, get a picture of the caster wheel and skirt (Figure 5), as it aids in identifying the safe via a database. This brings up a good point about databases. You need to place all this information in a file and start saving it permanently. Two reasons are you may need to open this same safe later on, and this information can also be used to help others.

My files are about 50 gigabytes in size. I have three OTG external USB drives. I store information on my computer as I add other safes as I find them and also on the three external drives. I have been updating this file for almost four years, and it's a work in progress that I would not want to lose.

You are amassing a good amount of information on this safe, so let's continue. Get a close-up view of one of the hinges (Figure 6). A picture of dial and BCH is nice (Figure 7), but the picture would be more informative if a ruler was included. That way, the distance between the dial center and BCH center would be shown, and that can help eliminate some locks due to size.

Time for Your Request

Now, with all this information, post and ask for a drill point. Figure 8 shows where the safe has been drilled based on information from other safe techs so that a scope can be used to determine the numbers that will open the lock. Once you open using that particular drill point and transfer numbers to drop in, you can take what is called a victory shot. You can see the drill sticking out at bottom of lock case (Figure 9). This is a safe place, as it did not hit any components inside the lock. Figure 10 shows an alternate method of drilling. It must be very accurate, but a scope in this hole will allow you to dial at the drop-in point and open the lock after you remove your expensive scope.

In Figure 11, the ID of the lock is shown as a Diebold/Eagle #161 lock. If I knew this before I drilled the hole, I would have used Ed Willis's illustrated locks book. I would have printed a copy of the lock and mounted it as best I could. Then I would have seen exactly where to drill, as these are X-ray drawings that you view as if the door was made of glass. It makes drilling a no-brainer for everybody.



Figure 9. The drill is sticking out at bottom of lock case.



Figure 10. This photo shows an alternate method of drilling.



Figure 11. The lock bolt is retracted.



Figure 12. This image shows the direct-entry style of lock.

Now, all this information is saved in your ever-expanding database. Next comes the courtesy of showing the information to others now that the safe is open. So many ask for assistance but don't have the courtesy of a reply and thank you after the job is done.

Here are a few different safe locks to show how some are made. *Figure 12* is showing the direct-entry style of lock. You can see that if you turn the BCH, the dial will bind. With practice, manipulation is fairly easy. *Figure 13* shows the nose riding on top of the wheels. You will see this



Figure 13. The nose is riding on top of the wheels.

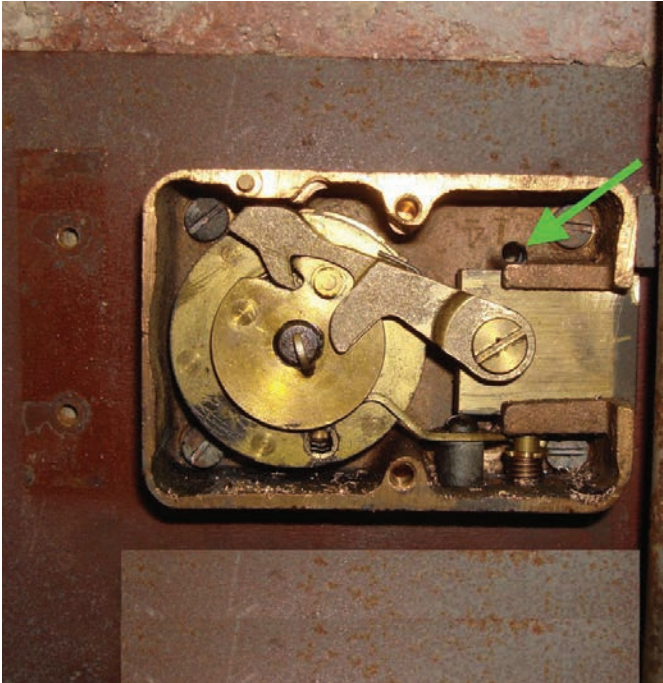


Figure 14. This photo shows an M6730.



Figure 15. A Yale OB-style lock is shown.

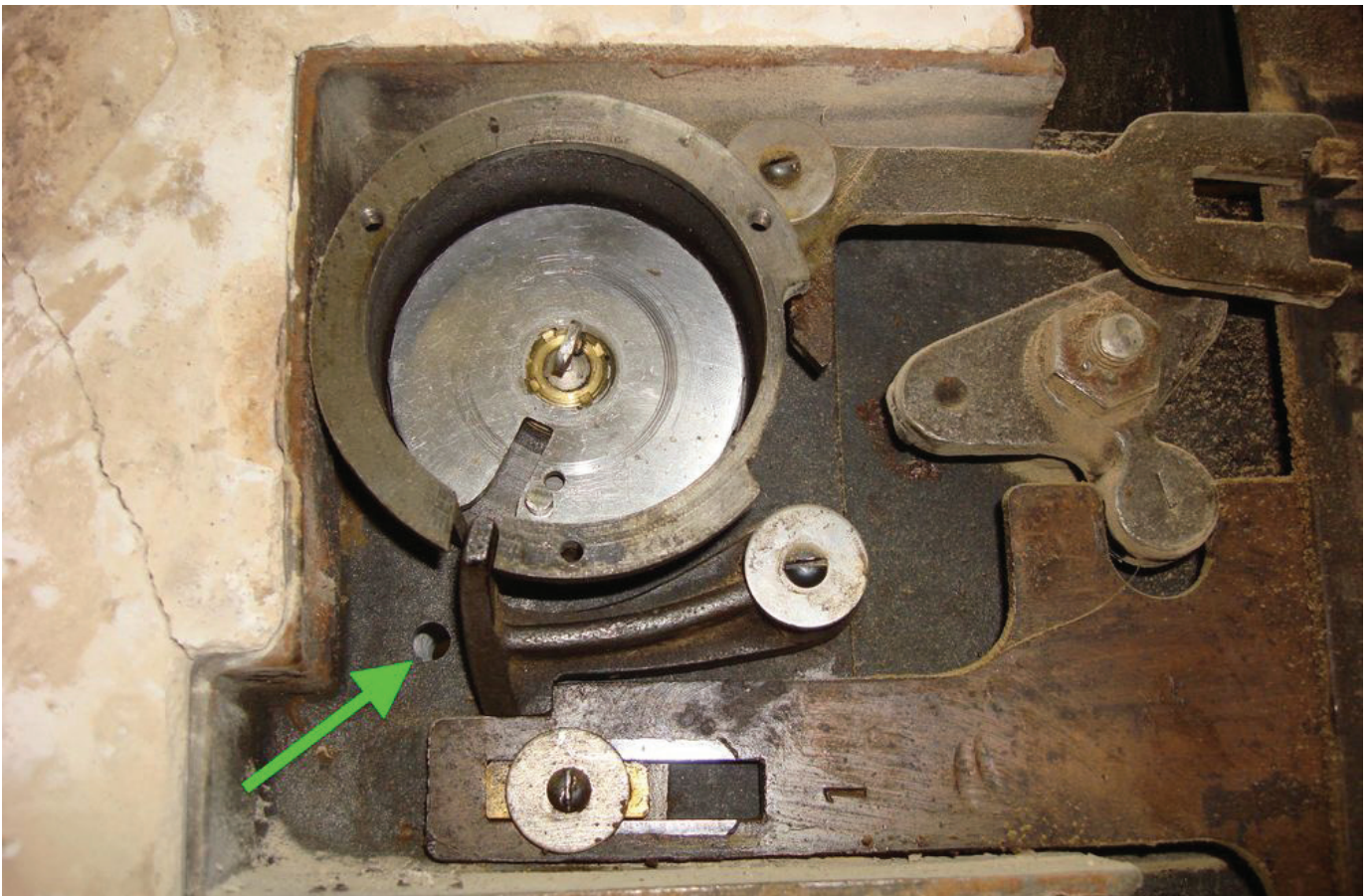


Figure 16. The hole allows viewing the gates, and gravity allows the lever to drop in.



Figure 17. The HE lock is shown.



Figure 18. An OB lock is shown.

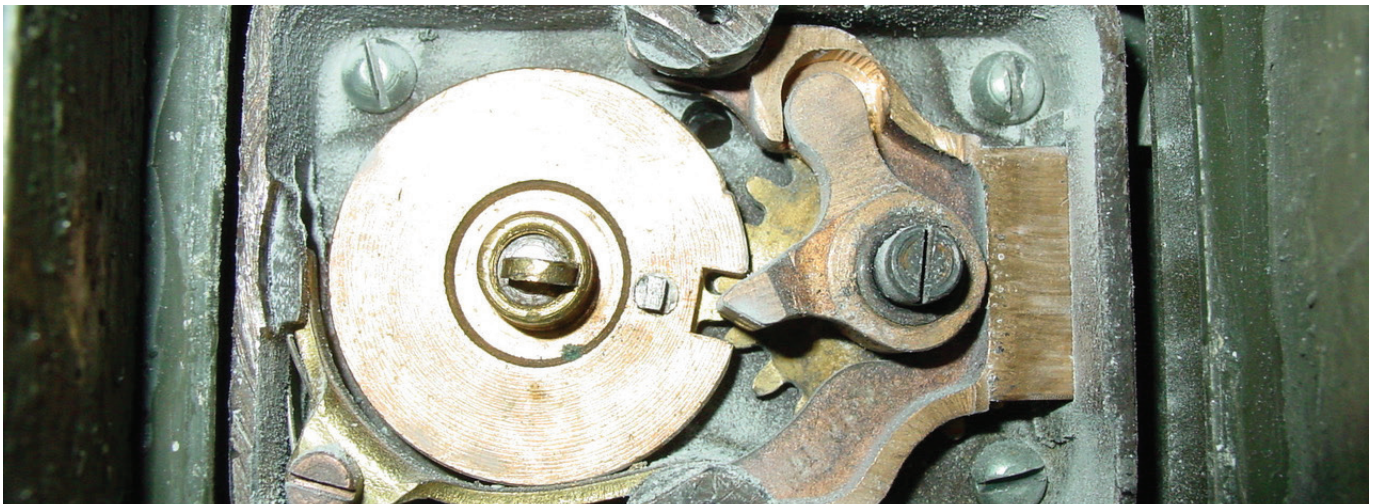


Figure 19. Pictured is an OC5.

on many locks, but mostly on Victor safes. Some have a BCH, and others have the “wing” as part of the dial. This is another one that is easy to manipulate as well as try out combinations on from the orange HPC Inc. Safe and Vault Manual. *Figure 14* shows an M6730, and you can see that the observation hole came very close to the bolt — but it was a great place to view the drop-in point with a 70-degree scope. Next is a Yale OB-style lock (*Figure 15*). The best place to drill is around 50. Hit the open area to line up the wheels so that gravity will allow the fence to enter the wheel pack. That stops it from blocking the BCH.

A similar lock called the “K” lock is in *Figure 16*. Notice the hole that allows viewing the gates, and gravity allows the lever to drop in.

The last three have a way of ID’ing that may help if you’re on the outside looking in. First is the HE lock in *Figure 17*. If you put pressure on the BCH, the contact points will show up by the feel of them bumping. It also works well on an OB lock (*Figure 18*) as long as you put a lot of pressure on the BCH. The last one is an OC5 (*Figure 19*). It is a geared friction fence lock. By turning CCW, you should feel and hear one contact point

between 95 and 10. This should walk you through most items that will identify what you have.

Finding the Drill Point

Now what would be the drill point for this old Diebold safe? You put pressure on the handle and found it is not a direct entry. You listened for a gear and did not hear any. You checked for contacts and found 6 and 15, and it has three wheels. You took some pictures of the safe but forgot to take a dial-to-BCH measurement.

Now you can post that for a drill point and probably get a few choices for drilling.

This makes it easier for more experienced people to find what you need, and they are more likely to help you out.

Now, finally, it is imperative that you post the opening after the job is done. I know you want to run to the next job, but courtesy says to show your final pictures to those who took the time to pass on the quality information for you.

Opening the Container

Now for tools needed to open the container: First, we need our eyes and fingers to manipulate the lock and open it. Not good at manipulating? Well, it's time to take a few classes and practice with a cutaway lock until you understand how it's done.

If manipulating does not work for you, then you need the lock ID and drill point to get it open. A battery drill and carbide drill bits of your choice and different length and size (6", 8" and 12") is a start. Normal sizes carried are 1/8", 3/16", 1/4", 5/16" and 3/8". Also, have a quantity of each, as you don't want to go back because you have run out of bits. A lever rig and a magnetic base rig are the best choices for starting up. Add a vacuum rig later as need arises. It will work on surfaces that are not magnetic like some of the higher-grade units and vault doors.

Looking Inside

Now that you've drilled a hole, you need to see inside the lock. You will need a few different scopes: a 30-degree that sees a little to the side, a 70-degree for a larger side view, a 90-degree used to view change key hole and a 0-degree, which looks straight ahead. The 90-degree is for manipulating from a mechanical lock CKH and is usually used if the lock has glass that would trip relockers. This is a great bypass method. Different lengths and diameters are available. The first

one you will want is a 0 at 7" long. The diameter will be either 2.4 mm or 4 mm, depending on whether you want to microdrill using a 1/8" bit or 1/4" for the 4 mm scope that puts more light inside the lock. Your light source should be a variable-intensity to eliminate reflections from cutting down what you can see.

Now, when you look inside, it's just a matter of dialing the gates under the lever arm and opening the lock. Make sure you remove your expensive scope before retracting the bolt or opening the door, or you will lose all the profit you made on the safe. Now what if you look inside and you don't see the fence? You don't need to drill another hole. Just align the gates at your hole and record the numbers, then transfer them to where you think the fence is actually located. If you don't know how to transfer, there are quite a few articles explaining it. And, again: practice, practice, practice. As a starting safe tech, count on spending at least \$10,000 on basic equipment to open safes easily. Otherwise, you'll be spending so much time that it won't be profitable.

This article doesn't answer all questions you might have, but it's a good start. I hope this is a good primer for you on safe opening.

Special thanks to Dave McOmie for some of the photos and his help with the text. ☺



Richard Vigue started locksmithing in 1969 after someone stole his truck and set fire to it. He started with alarms from Radar Sentry in Michigan and took all the classes he could find for locks and safes. He semi-retired in 2005 but is still working and taking classes as well as acting as an adjunct teacher at a local college.

AUTOMOTIVE LOCKSMITHING

BROUGHT TO YOU BY

AUTEL®

Live Data's Role in Immobilizer Testing

Diagnosing a vehicle no-start can be one of the more frustrating repair challenges, especially after the most likely culprits — the battery and starter — have been eliminated from suspicion after testing.

The next suspects include the cut key or the ignition cylinder, both of which may be worn from thousands of uses over the vehicle lifespan.

The fault can often lie with the anti-theft system; perhaps the transducer chip within the key is damaged or the immobilizer itself is no longer functioning. Access to a good scan tool providing live system data can enable a technician to test the key and immobilizer. The technician uses the scanner to connect to the vehicle via the OBDII port, and after identifying the vehicle and accessing the diagnostics platform, initiates the Live Data session.

Each session differs by vehicle and type of key or fob. But, typically, the process sees the tablet prompt the tech through a series of steps, including putting the key in the ignition on/engine off mode.

And often, with a simple "yes" or "no," the tablet confirms the starter is enabled, and therefore the immobilizer system is working. The transponder has sent a code recognized by the immobilizer, and the immobilizer sends back a go-ahead for the starter to turn over.

KEYS TO YOUR SUCCESS!



IM608PROKPA ADVANCED IMMO & KEY PROGRAMMING BUNDLE

- IM608 10" TOUCHSCREEN ANDROID TABLET, ADVANCED XP400 PRO, MAXIFLASH JVC1 & KEY PROGRAMMER ADAPTER KIT
- STREAMLINED SMART AND EXPERT KEY PROGRAMMING AND IMMO
- INCLUDES 1-YEAR SOFTWARE UPDATES AND WARRANTY

VEHICLE COVERAGE INCLUDES

BENZ

- ONE-TAP KEY PROGRAMMING VIA OBD
- 3RD GENERATION IMMO CAN-LINE/ K-LINE ADD KEY, ALL KEY LOST

BMW

- SMART IMMO PROGRAMMING (SUPPORT EWS3/4, CAS 1/2/3/4, FEM/BDC)
- ADD KEY/ALL KEY LOST

VOLKSWAGEN/AUDI

- ONE-TAP ONLINE PROGRAMMING
- ADD KEY/ALL KEY LOST VIA OBD FOR 2013 - 2020 MODELS GM
- READ IMMO PASSWORD, ADD KEY/ALL KEY LOST UP TO 2020

FORD

- ADD KEY/ALL KEY LOST (NO PIN NEEDED) UP TO 2020

MAZDA

- ADD KEY/ALL KEY LOST (NO PIN NEEDED) UP TO 2020 FCA
- READ IMMO PASSWORD, ADD KEY/ALL KEY LOST UP TO 2020

RENAULT

- ADD KEY/ALL KEY LOST (NO PIN NEEDED) UP TO 2020

LANDROVER/JAGUAR

- ADD KEY/ALL KEY LOST UP TO 2019

VOLVO

- SEMI-SMART KEY LEARNING VIA OBD UP TO 2018
- SMART/BLADE/FOBIK KEY LEARNING VIA DUMP

EXPAND
EEPROM
FUNCTION
INCLUDING
2000 COMPONENT
TYPES



ADD TO YOUR CURRENT IM608 OR IM508



IMKPA

EXPANDED KEY PROGRAMMING ACCESSORIES

*MUST BE USED WITH XP400PRO
ALSO SOLD SEPARATELY

XP400PRO

ADVANCED ALL-IN-ONE KEY PROGRAMMER

ALSO SOLD SEPARATELY



TEL: 1.855.288.3587 | WEB: AUTEL.COM
EMAIL: USSUPPORT@AUTEL.COM AUTEL.COM
FOLLOW US @AUTELTOOLS



SCAN TO WATCH
TRAINING VIDEOS
YouTube



AUTEL



How to Get a Legislative Bill Killed

Take these steps to fight local legislation that threatens our industry. **By Bill Mandlebaum, CML, ALOA President**

IS THERE ANOTHER ORGANIZATION TRYING TO PASS A BILL THROUGH YOUR state or local government that might take away your business? Do you want to try to stop this bill but don't know how without hiring an expensive lobbyist? What should you do if you find one of these bills in your backyard? While many bills related to our industry have been good, there has been almost NO enforcement. Thus they just become a tax on the locksmiths who want to operate legally.

Let me give you some ideas. First, do not go in being confrontational from the start. A little bit of sweetness can get a lot more accomplished than arguing. If reasonable conversation does not work, *then* go for the throat. We've had legislative people tell us not to mess with them, as they knew how the government worked, and they could get any bill passed. That bill lasted *one* reading and was never seen again. If you do it right, it can be done.

Steps to Take

First, read the bill carefully. Look for loopholes. When the alarm industry tried to get all low-voltage and access control put under them in Ohio, we told them that we would

“Remember that you are dealing with state government. They wear coats and ties.”

get ourselves exempted out of it immediately. They said, “No way.” We pointed out to them that they had exempted general contractors (as they did not want to fight them). In the Ohio Revised Code, there is no definition of what a general contractor



is. Thus, all we had to do (if this bill passed) was print up some business cards identifying ourselves as general contractors and keep on doing business as usual.

Next, we went to our local sheriffs. We told them that if this bill passed, they would have to hire a licensed electrician to repair all their computers (911) and cell phones. They could no longer use whom they wanted to. Several sheriffs called the state attorney general and asked what was going on. She called the representative who was sponsoring the bill and asked why the sheriffs were calling her upset. Major embarrassment.

Then we called several Toyota dealers. They were gun-shy ever since the Prius came out. Shortly after it hit the dealers, a union representative came around and told them they had to have an electrician on duty at all times in case a Prius came in. The Prius is more than 24 volts under the hood, and thus you had to be a licensed electrician under current state law to work on it. They managed to get themselves exempted from the state code, but it took some time and a lot of lobbying. We told them that the key and fob

“First, read the bill carefully. Look for loopholes.”

were access control, and they promptly got a hold of their lobbyist in Columbus to find out what was going on and protect themselves from this proposed bill.

Then, we went to the cable TV companies. They were not interested since they were not doing any home alarm systems (at that time). When we told them that the telephone companies were exempted under this bill, they immediately smelled a rat and called their lobbyist.

Some Warnings

This will give you some ideas that you can start with to try to get a bill modified or killed. Remember that you are dealing with state government. They wear coats and ties. Do *not* go into a committee meeting in jeans and a T-shirt; this ruins any message that you are trying to get across.

I watched a locksmith go into a committee meeting here in Ohio and testify wearing jeans, a dirty shirt and a *huge* ring of keys on his belt. You could see the legislators tuning him out before he even got started. He knew what he was talking about but never got the chance to present it. Because of that, the bill he was testifying in favor of did not get a second reading. Also, if you are trying to get a bill passed, never say that it's to protect your organization or prevent another organization from taking a particular action. The bills are all for the good of the voters, and that is what the legislators want to hear.

If you have questions about legislation in your local city or state, please reach out to membership@aloea.org. ALOA has an active legislative presence, and it's possible the bill is already on our radar. Together, we can fight unjust proposed legislation. ☺



Bill Mandlebaum, CML, is the president of ALOA SPAI. You can reach him at president@aloea.org.



Facilities IQ: Put Your Facility's Doors on "Report!"

ALOA has a new partnership with Facilities IQ for special pricing for its Door IQ product. **By Tom Foxwell Sr., CFDI, RL, CAI, and Vernon Kelley, CFDI, CFL, CMIL, CPL, ICML, IFDI, LSFDI**

ONE OF THE MOST CHALLENGING AND TIME-CONSUMING ASPECTS OF being an ALOA Fire Door Inspector (AFDI) or an AIL Life Safety & Fire Door inspector (LSFDI) is documenting your inspection process and subsequent findings. Now there is a solution for the fire door inspector that will drastically reduce your reliance on paper forms by using an app on your phone or tablet. Inspectors, it's time to go digital!

Facilities IQ recently introduced new software, Door IQ, that can precisely record all your fire door assembly findings. And for those of you who also inspect automatic power door operators, Door IQ can help manage that cumbersome task, too.

For the fire door inspector, Door IQ can report and track the findings of each fire door at your facility, including photos of any noncompliant issues discovered during the inspection process. Door IQ follows the 13-step fire door inspection process outlined in *NFPA 80 Standard for Fire Doors and Other Opening Protectives*. Once your report is complete, it can be emailed as a

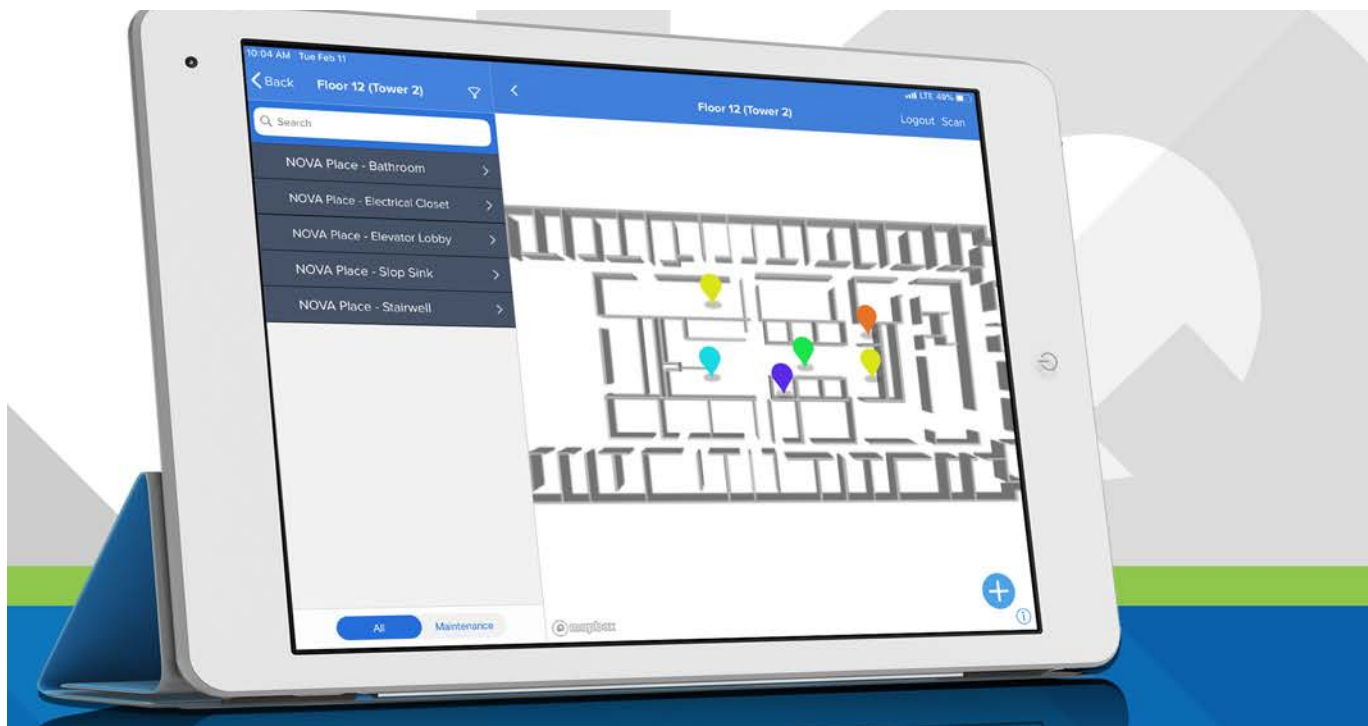


Figure 1. ALOA is pleased to announce a strategic partnership between ALOA SPAI and Facilities IQ that allows for special pricing for new users.

PDF to up to 10 people. You can also customize your reports with your company or facility logo as well as the ALOA logo.

For those who inspect automatic power door operators, Door IQ also has a reporting system for you. This report follows the inspection guidelines established by the American Association of Automatic Door Manufacturers, more commonly known as AAADM.

AAADM outlines two types of safety inspections: daily and annual. Both types of inspections can be accomplished using Door IQ, which provides a reporting vehicle covering all the recommended procedures for each type of inspection.

As an extra measure of protection, as well as easy of accessibility to the information related to your inspections, all reports are securely stored on Facilities IQ servers.

New Tools

Speaking of automatic door operators, Facilities IQ is developing a sensor to install on automatic operators to detect erratic door movement as well as drastic temperature changes within the unit. This sensor will trigger an alarm to advise you of potential problems with a malfunctioning operator.

Facilities IQ is also developing a tool that can produce a map of every door in your facility and keep track of when the door was visited for preventative maintenance, inspection or service.

Pricing

For Door IQ's most basic reporting method, there is a one-time fee applied as each door is inspected, regardless of the type of inspection you're performing. You can then reinspect any specific door as many times

as needed within 30 days of the initial inspection for that price. Keep in mind that this requires you to have a unique identification number for each door in your facility requiring some sort of inspection, but you'll need to do that for fire door assemblies anyway since it's a requirement outlined in NFPA 80. You're knocking two items off your inspection "to-do" list.

For larger institutions, Facilities IQ has different pricing structures that may afford your facility a more economical record-keeping solution.

ALOA and Facilities IQ Partnership

ALOA is pleased to announce a strategic partnership between ALOA SPAI and Facilities IQ, the creators of Door IQ. We're so impressed with Door IQ's functionality and benefits that we recommend its

LET SOUTHERN TAKE YOU WHERE OTHERS CAN'T

LCN®

6400 SERIES COMPACT™ Automatic Operator Module Kits



BUY 1, GET



ORDER #	ITEM #
460-1300	LCN 6440-689* Module Kit, Aluminum
460-1305	LCN 6440-695* Module Kit, Dark Bronze
460-1330	LCN 6440XP-689 Module + 4040XP Kit, Aluminum
460-1335	LCN 6440XP-695 Module + 4040XP Kit, Dark Bronze
460-1310	LCN 6440-3813W-689* Module, Hardwired Kit, Aluminum
460-1315	LCN 6440-3813W-695* Module, Hardwired Kit, Dark Bronze
460-1320	LCN 6440-2210-689* Module Battery Kit, Aluminum
460-1325	LCN 6440-2210-695* Module Battery Kit, Dark Bronze

* Module kit only, door closer sold separately

ALLEGION®



SCHLAGE MORTISE LOCKS

SPEND \$500, GET



Purchase Allegion product with Southern Lock for a chance to **WIN A NEW 2021 SIDE X SIDE UTILITY VEHICLE**

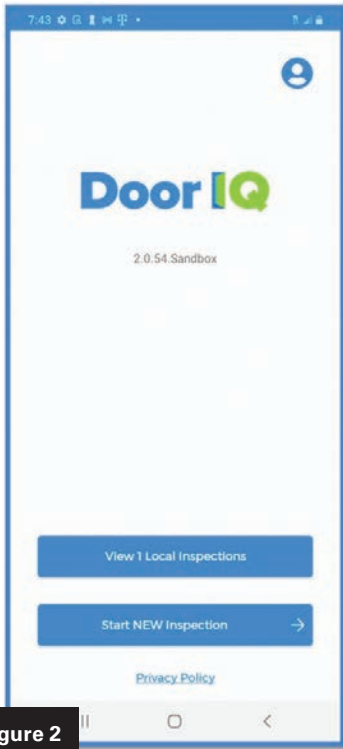
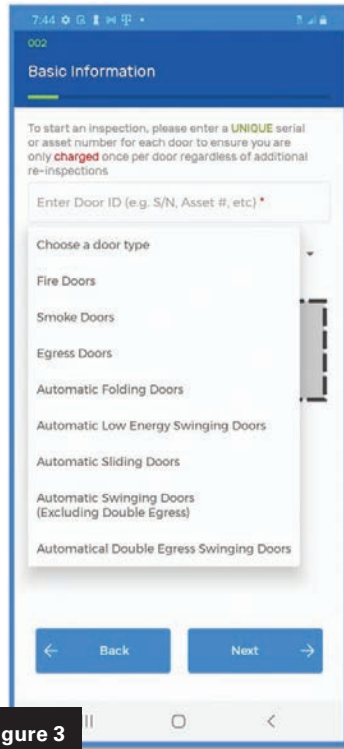
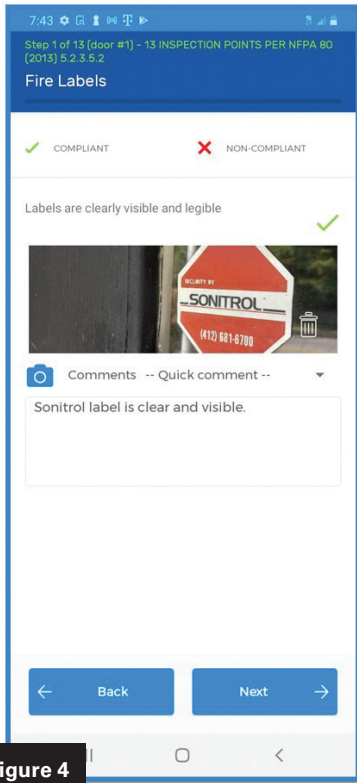
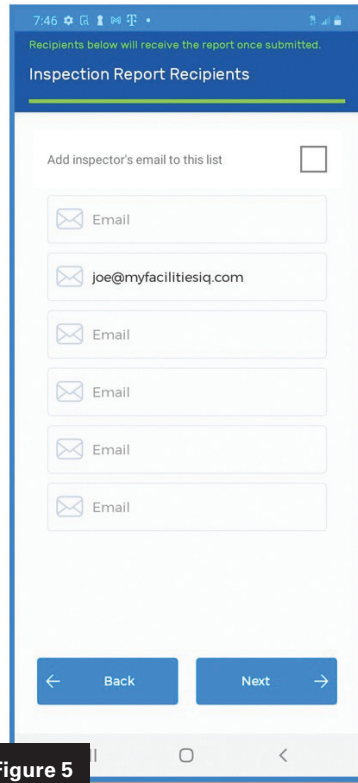


VIEW MORE WAYS TO EARN!



www.SouthernLock.com sales@southernlock.com [@SouthernLock](https://twitter.com/SouthernLock) facebook.com/SoLock

Make and model may vary according to local availability. \$15,000 value. Promotion ends 12/15/21.


Figure 2

Figure 3

Figure 4

Figure 5

Figures 2-5. Door IQ follows the 13-step fire door inspection process outlined in *NFPA 80 Standard for Fire Doors and Other Opening Protectives*, and reports can be emailed to up to 10 people.

use for all ALOA certified fire and automatic door inspections!

Special Pricing for New Users

If you register now for Door IQ using the link at <https://bit.ly/DoorIQReg>, Facilities IQ will credit you for your first five inspections, a value of \$39.95. Once you register with Door IQ, you can download the app for free by searching for "Door IQ" on the Google Play Store or Apple App Store.

For more information, visit myfacilitiesiq.com. Door IQ can be a helpful tool for the digital reporting of your facility's door fire safety and automatic operator opening assets. 📱



Tom Foxwell Sr., CFDI, RL, CAI, started working in the locksmith industry in 1965. He's a past ALOA president and a certified instructor for Kaba Access, Kaba Unicam, ASSA High Security, Securitron and HES, and is a state-certified instructor in both NJ and VA. He passed the ALOA Ace Instructors class in 2000 and designed and wrote an eight-hour class, "The Electronic Locksmith."



Vernon Kelley, CFDI, CFL, CMIL, CPL, ICML, IFDI, LSFDI, has been involved in the locksmith and security industry since 1989 and is a licensed locksmith in the state of New Jersey. A noted instructor and editor, he's co-author of the book *Institutional Lock Shop Management*. Vernon has served on the ALOA board of directors, and he is currently the first trustee of ALOA Institutional Locksmiths and director for the ALOA Scholarship Foundation. He is a recipient of the prestigious Lee Rognon Award as well as the Robert Gress Award. Vernon is the supervisor of access control at The College of New Jersey.

PRODUCTS & SERVICES GUIDE

TECHNICAL SERVICES, INC.
ASSA[®] FIX OEM *Ruko*
ASSA ABLOY

Master ASSA & Ruko Service Center
here to assist all Distributors and Dealers with
ASSA, FIX, OEM and Ruko Products -
especially hard to find items



724-969-2595
sales@assatechnicalservicesinc.com
www.assatechnicalservicesinc.com

Bullseye
SD LOCKS LLC

Bullseye[®] Safe Handle #1

Direct Replacement for the
Discontinued Ilco Unican/
Precision Products Safe Handle

Satin Chrome
Finish with
1/2" or 5/8"
Arbor Hole

Set screw
included



800-364-4899 | bullseyesdlocks.com

medeco
ASSA ABLOY

4

MORE SECURE
WITH
THE
POWER OF

**MEDECO 4
High Security
Key System**

MORE INNOVATION
MORE PROTECTION
MORE COMBINATIONS
MORE SECURITY



medeco.com/M4

Experience a safer
and more open world

BIG RED
SAFE LOCKS

"Big Red, The Safe Lock
With The Red Wheels[®]"

Our New 2018 CDL -3 Lock Series
Most Durable Mechanical Safe
Lock Ever Made Fully Documented

531,232 cycle
openings in
35 days.



H.L. FLAKE
SECURITY SYSTEMS

McDONALD'S **MBA USA** **TimeMaster** **H.E. Mitchell**

(877) 423-8073 • www.bigredsafelocks.com

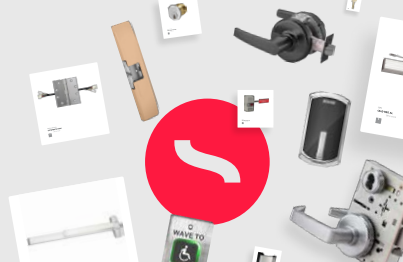
**YOUR
AD
HERE!**

SECCLOCK

The path we're on

Learn more about our refreshed
logo and why we're now officially
called Secclock

secclock.com • 800.847.5625



**For information
about advertising
in the *Products &
Services Guide*,
please contact
Adam Weiss at
(817) 908-7827.**

From Coin Collector to Master Locksmith

Tom Gillespie, CML, CIL, CCL, recounts his story of becoming a locksmith and growing in his career.

I WAS A COIN COLLECTOR... NO, NOT THAT KIND. I WORKED FOR ILLINOIS BELL Telephone Company right out of high school in 1966. I collected money from pay phones and serviced phone booths. In the Central Illinois region, there were six major areas (all of central Illinois from East St. Louis up to Springfield, Peoria and Champaign-Urbana), with one man assigned to each. He had to know the location of every pay phone in that area.

I was the “swing man” who had to cover the routes for the six other collectors in our region when they were on vacation, got promoted or were off for the day. I had to know the location of every pay phone in all of the cities in each area.

Each day, we’d get a stack of 80-120 IBM punch cards with a phone number, address and key number. A large BEST padlock with a flexible cable shackle held the keys in alphanumerical order. Each stop could have one or multiple coin boxes to collect. In Peoria, one week each month was devoted to Caterpillar. At one Caterpillar stop, there could easily be 30 pay phones lined up along a hallway. If a pay phone was occupied with a customer, we had to wait until the person finished the conversation. The basic job was to drive to the location, open the lock and swap out the moneyboxes.

The old pay phones had the key for the lockbox on the front of the phone (see *Figure 1*). People would stick things (gum, paper clips, toothpicks, etc.) in the lock keyway while they were talking on the phone. When we went to collect the coins, if the key wouldn’t work, we’d call the local locksmith, who would meet us and drill out the lock. I got to know eight locksmiths in those areas and became good friends with most of them. They’d show me how they did what they did. Sometimes, they’d invite me back to their shop behind the counter. I was hooked.

Retail Locksmithing

In 1969, I quit Illinois Bell and went to work for A-1 Lock, the local locksmith here in Springfield. By the mid-’70s, I’d figured out it would be more fun to make keys in the sand at the beach than in the snow. Listening to too many Beach Boys songs meant I headed West and was soon ’smithing in Southern California.

After working for Irvine Lock & Safe for a while — which later became Airport Lock & Safe — in Newport Beach, I was brought in as a partner. Our bright orange

trucks and paint scheme set us apart from the other locksmiths (*Figures 2 and 3*).

We were surrounded by tremendous growth. Dozens of new office buildings were popping up, and a ton of automotive work was available. We did a ton of work on Mercedes, Lamborghini, Maserati, Ferrari and Rolls Royce models as well as the basic BMW and other makes. In the early ’80s, we were the only shop between Los Angeles and San Diego with the ability to do “sidewinder” keys with our HPC TEN, a private-labeled Silca high-security key machine.

When the Newport Beach Mercedes dealer needed car lock repairs, we got the job. Their runner would bring in a dull/pitted set of door, glove box and trunk locks out of a customer’s car, with an existing key. He also brought a shiny new set of locks that he wanted set to the customer’s key. He’d pick up the new locks, and we got to keep all the leftovers. I built a great service kit with a collection of lock bodies, factory cut keys, 2-track and 4-track tumblers, springs, microswitches, tiny ball bearings, cams, tailpieces, etc.

For 15 years, I was very involved in all phases of the California Locksmith Association, including serving as Orange County President. I passed my ALOA

“After the wholesale distribution and manufacturing side of our industry, it was actually fun and relaxing to get my hands back on the hardware every day.”

RL testing on the Queen Mary during the onboard CLA convention in 1986. In 1988, I received my CPL status after testing at the ALOA convention.

Schooling Others

Because there was always a shortage of new candidates for a locksmith position in Orange County, a colleague and I formed a locksmith training program, The School of Lock Technology. The goal was to have a ready pool of potential apprentices. I wrote and developed a 15-week hands-on course that met two evenings and on Saturdays every week. We trained people how to become viable apprentice locksmiths. We taught the basics of key identification, key machine usage and adjustment, basic rekeying and lock repair. We did deadbolt installations, shimming and basic picking techniques, etc.

Part of the final exam was reassembling the paper bag full of mortise lock parts (plus a couple extra parts for fun). Some graduates went on to work in one of our shops or for other Orange County locksmiths, and a few went into institutional lock positions.



Figure 1. The author’s introduction to locks began when he worked as a coin collector for a telephone company, collecting coins from payphones such as this one.



Figure 2

Distribution

By 1990, I had the chance to transition into wholesale distribution at American Lock & Supply in Anaheim. I was the sales administrator and oversaw inside sales, customer service, will call and the internal lock shop. I also visited various American branches, teaching electronic access classes to customers and employees. I achieved my CML certification during that time.

Manufacturing

Having experienced the retail and distribution side of our industry, I kept going. In 1992 I joined up with Adam Weinstein, a locksmith friend who'd started a little company called PRO-LOK. We made car opening tools and other locksmith service



Figure 3

Figures 2 and 3. Gillespie worked for some time as a partner at Irvine Lock & Safe, which was known for its bright orange color scheme.

REDUCE YOUR CREDIT CARD PROCESSING FEES



Rates as low as .05%*



Accept EMV/NFC
(Apple Pay, ETC.) EBT,
Snap, Checks and more



Next Day Funding with
weekend settlement

- ✓ FREE Credit Card Terminal Placement Wireless/Landline/High-Speed/Dial-Up
- ✓ Easy setup (with no setup fees and quick approvals)
- ✓ Seamless integration with your current POS
- ✓ \$295** towards your early termination fee (if you have one) with your current processor
- ✓ Access to Payments Hub – our secure, online merchant portal
- ✓ Free paper**



**INTEGRATE
WITH YOUR POS**

- FREE NFC & EMV-Ready Terminal & Pin Pad or wireless terminal.
- Accept payments in-store, online, or on-the-go.



OPTIONAL PROGRAMS:

Make the same profit margin with cash and non-cash payments!

- **Cash Discount**

NAB makes it easy to make the same profit from non-cash payments as you do with cash payments with our cash discount program.

- **Curbside Ordering**
- **Point of Sale Systems**
Recommendations, Solutions & Integrations

GROW YOUR BUSINESS. PARTNER WITH NAB TODAY!

866.481.4604

North**American**
BANCARD

WWW.NYNAB.COM

©2021 North American Bancard is a registered ISO of Wells Fargo Bank, N.A., Concord, CA, and The Bancorp Bank, Philadelphia, PA., BMO Harris N.A., Chicago, IL and Citizens Bank N.A., Providence, RI. American Express may require separate approval. *Durbin regulated Check Card percentage rate. A per transaction fee will also apply. **Some restrictions apply. This advertisement is sponsored by an ISO of North American Bancard. Apple Pay is a trademark of Apple Inc.



equipment. I wrote annual updates to our car opening manuals by taking apart dozens of new models at the local dealers and developing measurement and color photos showing contact points and tool usage. I also worked with Toyota R&D and Honda R&D in Los Angeles to discover opening methods for new models before they were released. The PRO-LOK KeyMaster Punch was joined by the Blue Punch key machine and expanded the business greatly.

In addition to teaching at the *Locksmith Ledger* LedgerWorld shows, I taught new car opening seminars at trade shows all over the U.S. and Canada, and in a few instances I taught some government agents surreptitious auto entry methods. At that time, we had about 400 slides that detailed various tools, interior door components and specific areas to avoid to prevent your tools from causing damage. From local locksmith associations to distributor trade shows, ALOA, Yankee, LedgerWorld trainings and more, I was there.

Back to Distribution

In 1998, after 25 years in Southern California, it was time to get out. I moved back home to Illinois and hooked up with Clark Security Products as an outside sales rep based at the Chicago branch. I covered most of Illinois, Iowa, Indiana and Missouri. I taught master keying seminars at different Clark tradeshow, LedgerWorld shows and ALOA Conventions. I received my CIL rating and worked closely with the Great Lakes Chapter of the Institutional Locksmith Association.

Back to Retail Locksmithing

In 2010, I retired... sort of. I stopped in to see a former locksmith I'd called on here in town. He needed some part-time help, and I jumped at it. After the wholesale distribution and manufacturing side of

"I recently had my 10-year anniversary at Starfleet Lock & Safe, and I'm still having fun."

our industry, it was actually fun and relaxing to get my hands back on the hardware every day.

I recently had my 10-year anniversary at Starfleet Lock & Safe, and I'm still having fun. We focus on commercial, industrial and banking customers and sell, deliver, open and repair safes and vaults. I do most bench work and develop and maintain large master key systems. We dropped all automotive work years ago and no longer do auto or home lockouts.

Industry Changes

The automotive side is a completely different animal than it used to be. We've gone from opening cars by manipulating the vent window lock or simply wiggling a Slim Jim in the door to automatic relocking, side-milled, dead-bolting locks and a prodigious use of airbags, onboard computers and passive, keyless auto locks.

In my years in this industry, we've gone from dozens of different lock manufacturers to relatively few megabrands. I preferred the distinct differences of manufacturers to the homogenized similarity of many current lock products. In the '70s, offshore lock products were frowned upon... we'd simply use the "real" thing. Today, the vast majority of security hardware is offshore. Times change.

Articles

Starting in 1992, I wrote an article series for *The Professional Locksmith* magazine. It started me on a path to write for *Locksmith Ledger* for 20 years. I've also written for *The National Locksmith*, *Reed's Security Reporter*, a Canadian Locksmith magazine and a few other publications. In 2010, I started writing for *Keynotes* and *Safe & Vault Technology* magazines and continue to do so (as you probably realize if you're reading this).

Conclusions

I've been very fortunate in my 52-year career in this industry. I've been blessed to achieve many of the goals I've reached for, and I've had more than my share of failures or disappointments (usually my own fault). I've made and lost a lot of good friends and mentors, most recently Gale Johnson, the long-time editor of *Locksmith Ledger*.

I've loved being a part of this chosen profession, and I'm fortunate to have worked for and with a number of great companies and people. I plan on continuing doing what I'm doing as long as the good Lord allows me to mentally and physically remain active.

I'd like to thank all of the friends and colleagues I've made over the years for making this journey through the world of locksmithing so memorable. ☺



Tom Gillespie, CML, CIL, CCL, is a 52-year veteran of the security industry. Since 1969, he has expanded his experience in the retail, manufacturing and distribu-

tion segments of our industry. Tom has taught educational seminars throughout the U.S. and Canada. He has authored numerous books, newsletters and articles for security industry publications. He is semi-retired but is still active in locksmithing. Tom can be reached at tomxgillespie@gmail.com.



RECRUIT FOR ALOA AND WIN!

Want to attend ALOA 2022 in Las Vegas for free?

Share your love of ALOA with colleagues and win!

Help ALOA recruit new members, and you can win big. Sponsor the most new members (minimum of five) between now and March 31, 2022, and **win a full seven-day convention package to ALOA 2022 plus a five-night hotel stay!** (Ties will be decided by a drawing.)

The winning doesn't stop there, though. ALOA will also hold a **second-place drawing for another seven-day convention package.** Recruit three to four new members to secure your entry.*

And for every three new members you sponsor, **get a \$100 gift card!**

**It pays to bring in new members,
and it's never been so easy to win.**

For questions, contact membership@aloa.org

*Members who win the first-place package are ineligible to win the second-place prize package

WHO TO RECRUIT

Coworkers/colleagues

Your employees

Classmates at
ALOA 2021

Local association
members

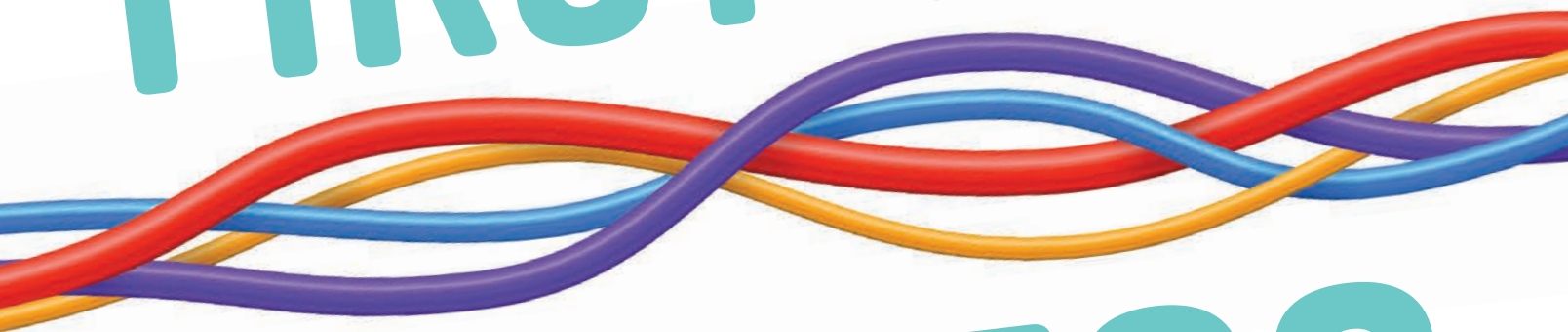
TWO WAYS TO JOIN

Click on the **BECOME A MEMBER**
button at aloamembers.org

OR

Email membership@aloa.org
to request an application

FIRST-TIME



SUCCESS

All keys were lost for a 2019 Jaguar F-Pace.
By Daniel VanDenburgh, CAL

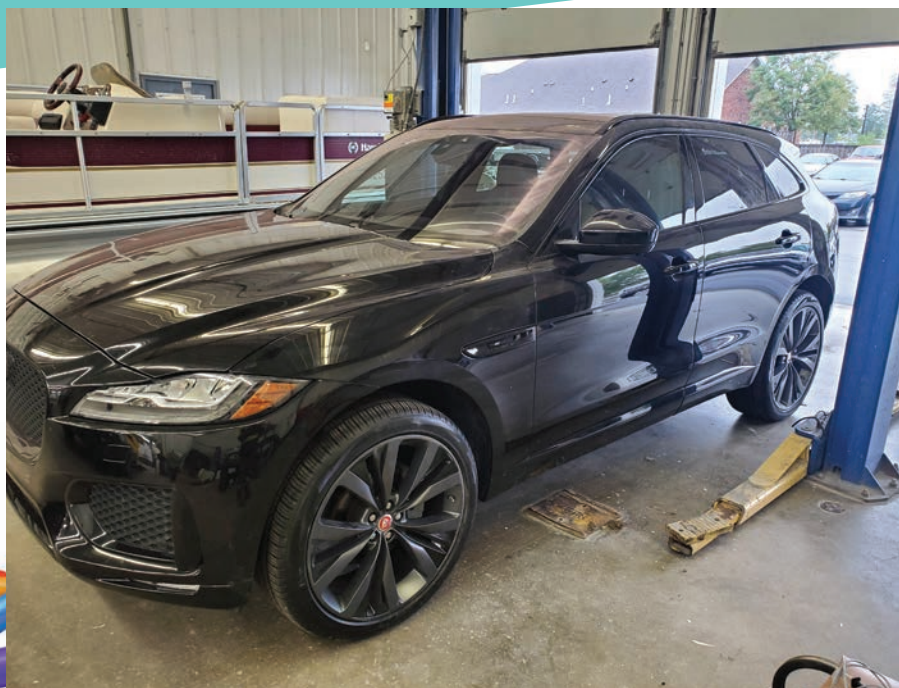


Figure 1. This Jaguar F-Pace was not running.



Figure 2. The author used these cables with Arites to connect into the CAN bus lines.

RECENTLY MADE A PROXIMITY KEY for a customer on a 2019 Jaguar F-Pace, and all keys were lost. The vehicle had been a theft recovery with a police-issued VIN, as the original VIN had been scratched out in the dash and damaged beyond being readable on the doorframe. Due to the size of the lot, the vehicle was barricaded in the back of the lot, surrounded by cars. I originally attempted some of the following procedures, but I had too much trouble. I had the lot move the vehicle to gain enough space to open all the vehicle doors, including the hatch. If this had been done prior to the job, it would have been much easier.

First things first: Connect a battery maintainer. Consistent power supply is the biggest issue with programming keys. The alarm was active, indicating that the KVM (keyless vehicle module, also referred to as the RFA module) is in lockout mode. Arites software can program keys to the locked module in an all-keys-lost situation.



Figure 3. This was the wiring under the driver's seat.

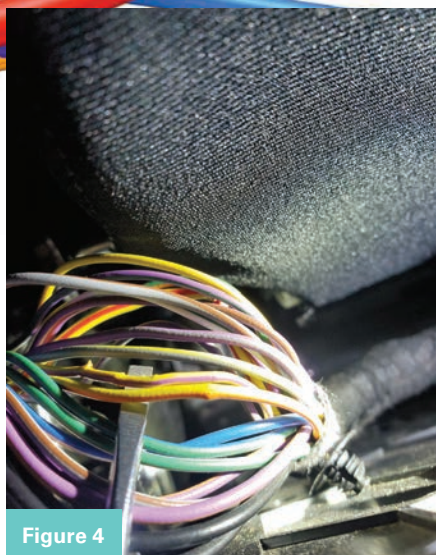


Figure 4

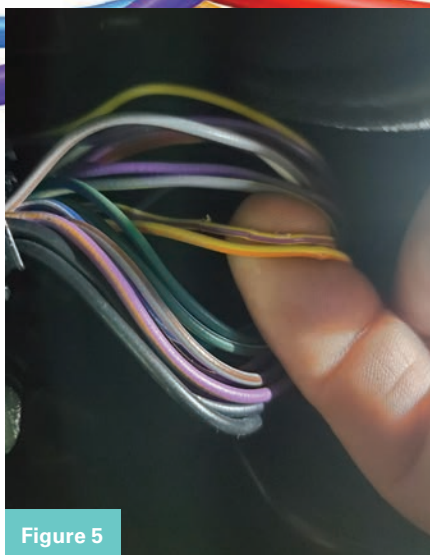


Figure 5

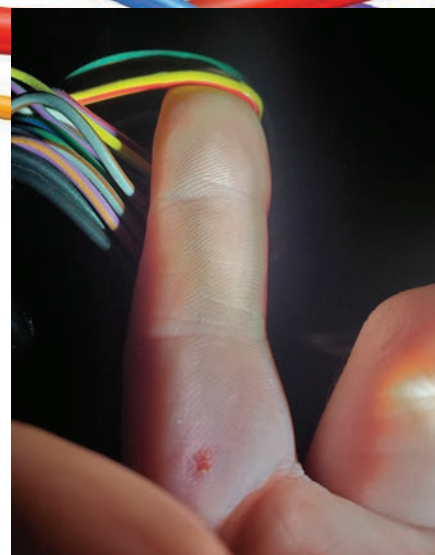


Figure 6. Under the driver's seat, the wire looked yellow/red.

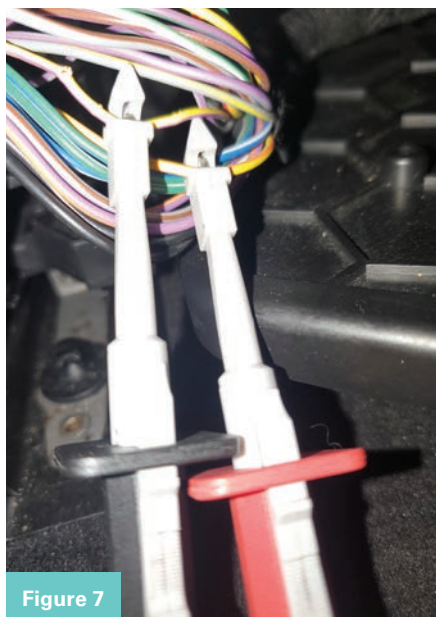


Figure 7



Figure 8

Figures 7 and 8. The probes are connected to the yellow/orange and yellow/purple wiring under the driver's seat.

First, I attempted to unlock the module via OBD and CAN bus lines using the Abrites and connections under the seat (see Figures 2 and 3). For the Abrites to program the module with this method, you must use the Abrites TA56 key and the Pro-Tag programmer attachment while plugged into the OBD.

The Abrites tool instructions explain that the CAN bus wiring is located under

both of the front seats and inside all of the doors. They need to be probed with the CB012 probe cables. The cables can be tricky to properly pierce the wiring for a solid connection.

I found the best way to do this was to place the wiring in the "V" notch closest to the handle of the probe cable. The wires we are looking for are described as yellow with a red stripe, and yellow

with a brown stripe (note that the software shows that this wire can also be yellow with a purple stripe). While looking under the seats, starting at the seat controls, I could clearly see them. It's also important to note that there are thicker wires further under the seat for ease of probing. I noticed that the would-be yellow/red wire looked more yellow/orange (Figures 5 and 6). After probing



Figure 9. The hole next to the emergency trunk latch will allow you to manually move the latch with a poker or small screwdriver.



Figure 10. Push toward the latch with the small screwdriver to release the trunk latch.



Figure 11



Figure 12

Figures 11 and 12. The KVM is located on the passenger side of the hatch.

multiple wires (*Figures 7 and 8*), I was unable to establish a connection with the vehicle, so I moved on to the KVM module location.

KVM Location

The location of the KVM is in the hatch near the passenger side wheel well. Due to the vehicle being in lockout mode, the hatch would not open. An emergency re-

lease handle was not located. To open the hatch from the inside, look down where the latch catches on the bottom of the door. In the plastic cover of the latch, there is a small hole. Insert a poker or small screwdriver and push away from the center, and the hatch will open.

If removing the KVM to replace or try an “on bench” method with a different tool, here are some steps to get to it. Re-

move the plastic trim pieces on the passenger-side wall and pull the lining back. The module has three plugs and is held on by two 10 mm bolts. While inspecting the KVM, I noticed that there was a set of wires intertwined: one yellow/orange, and the other yellow/purple. The intertwined lines were further toward the rear of the vehicle in the hatch, on the same wall as the KVM.



Figure 13. There are plastic clips to hold the wiring harness in place on the bolts that the KVM attaches to. One was under the 10 mm nut, and the other was on top, preventing removal of the nut.



Figure 14. The module has three plugs on the underside that are somewhat difficult to remove due to limited space.



Figure 15. On the bottom of the module, you can see where plugs connect.



Figure 16. The module is removed.



Figure 17. This shows the location of the CAN bus wires in the passenger-side trunk compartment, close to the taillight.

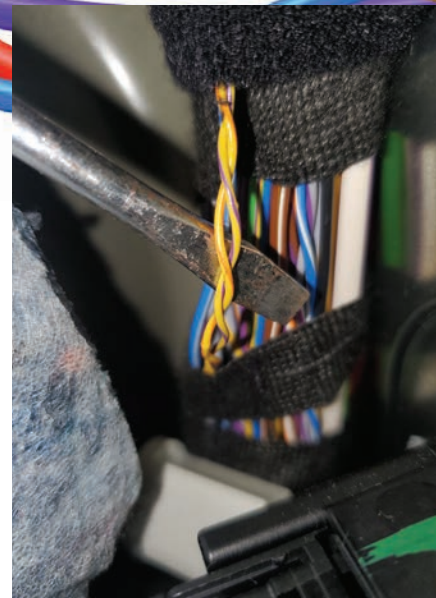


Figure 18. It's important to note that these yellow/orange and yellow/purple CAN bus wires are intertwined.

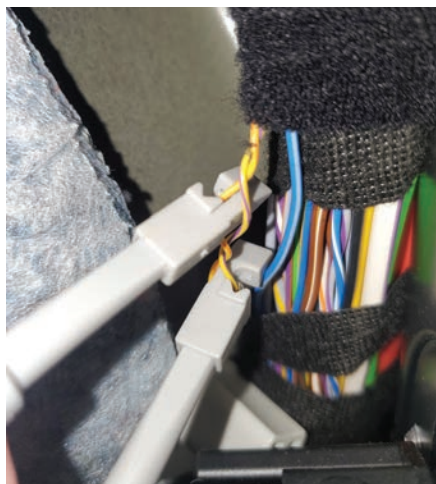


Figure 19. These cables are connected to the CAN bus lines in the trunk.



Figure 20. You can see the Abrites TA56 key and the fact that the vehicle is on.

While researching using the Abrites tool, the references showed the CAN bus lines as intertwined, but I never found them twisted together under the front seats. I reconnected the Abrites by making an extension to reach both the KVM in back and the OBD plug in front. The probe handles have a plug-in location for this exact type of situation, if you have an extra set of probes.

Once plugged into these CAN bus lines

and with everything connected, follow the on-screen prompts. Programming the TA56 key with proper connections took just a few minutes, even for my first time using this method and the TA56 key. There are other methods for other tools that sometimes require removing items from the circuit board. KVM factory replacement can run into the thousands of dollars. Once I figured out this job, the Abrites programmer and the new TA56

provided a fast, reliable affordable solution for my customer. 🙌



Daniel VanDenburgh, CAL, is vice president of Lockout Express LLC in Dyer, Indiana. He has been locksmithing for 12 years in the family business servicing automotive, residential, commercial and safes.



A CLASSROOM SECURITY OPTION FROM VON DUPRIN

Greg Perry, CML, CPS, explains the benefits and installation of the Von Duprin cylinder/hex key dogging security indicator.

SOMETIMES A MANUFACTURER COMES OUT WITH A PRODUCT THAT MAKES you say, “Wow. How simple, and why didn’t they think of it sooner?” Classroom security and active shooter security have been hot topics for at least the last 10 years. Double-cylinder classroom locks like the Schlage ND95 or the L9071 are a great way to increase the security by allowing teachers to lock the door from the inside, but what about exit devices?

Von Duprin has come to the rescue with its cylinder or hex key dogging security indicator. It’s available as an option on its 33/35 and 98/99 devices by simply adding “CDSI” for the cylinder dogged version or “HDSI” for the hex dogged devices. It is also available in a conversion option to retrofit existing devices manufactured since September 1997. Just remember, you cannot retrofit a fire-rated device since they aren’t allowed to be mechanically dogged down.

Installation

The indicator is so simple to install. First, remove the existing dogging stud or the plug used in a cylinder dogged device, add the cam assembly and re-install or install the appropriate hex dogging stud or plug. If you chose the cylinder dogged device, you can use any keyed cylinder or a thumbturn mortise with a standard cam. When it’s assembled, it needs to be turned backward to actuate the dogging cam.





Figure 7. The cylinder can be a thumbturn or keyed cylinder. It's held in place with the guide and locknut.

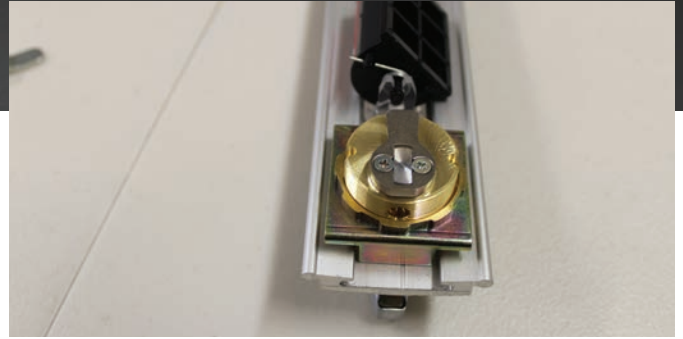


Figure 8. Install the cylinder with the mortise cam in the normal position as the first step.

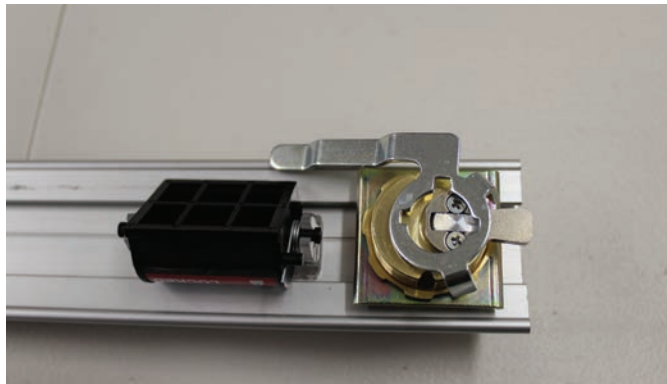


Figure 9. This is the indicator cam before it was installed on the dogging cam. The mortise cylinder cam must be turned 180 degrees to actuate it.



Figure 10. The indicator is very simple to remove when it needs to be flipped to the other hand so it reads right side up.



Figure 11. Installing the device on a door begins with installing the strike at the correct height. Then use the plastic template to mark or drill all the mounting screw holes.

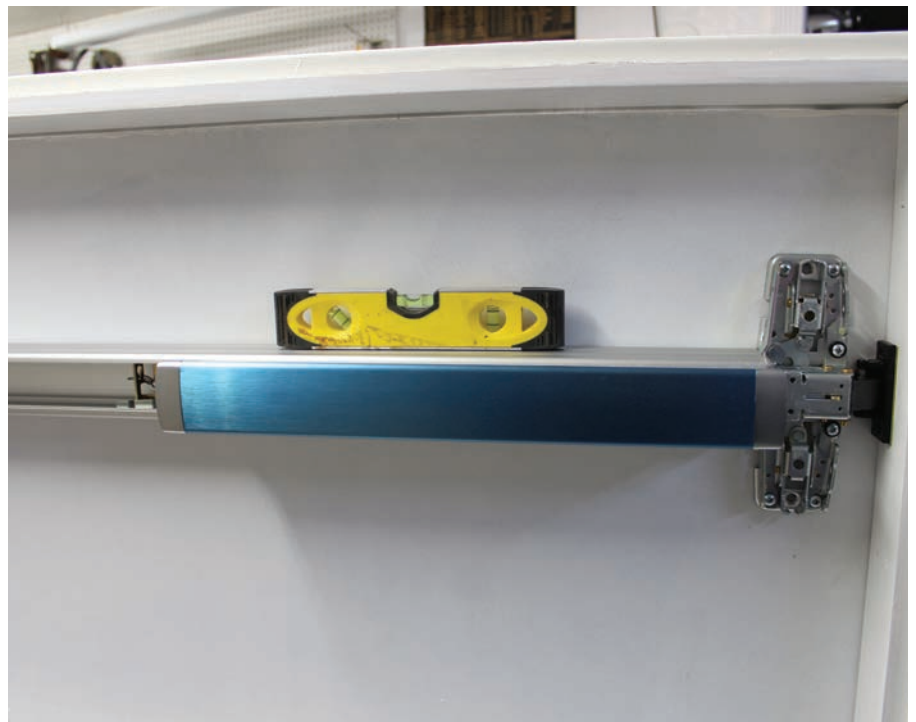


Figure 12. Always use a level when installing an exit device.



Figure 13. The hinge end of the device is held in place with the base. The end cap is screwed to the base plate after sliding the indicator plate in to the device.



Figure 14. Here is the finished install.



Figure 15. This image provides a close-up view of the indicator with the device dogged down.



Figure 16. With the device undogged, the indicator shows the device locked. It may sound simple, but always remind your customer that the door needs to be closed and latched for it to truly be locked.

Von Duprin has a different indicator device; it operates the cam assembly in the center case. The 2SI option is a double-cylinder device that actuates or moves the same locking cam that the outside cylinder rotates to lock/unlock the outside trim. This will allow you to still have electric latch retraction and could be used with a fire-rated device since it doesn't involve dogging the bar down. The 2SI uses a mortise cylinder, so it would also accept a thumbturn cylinder in case your customer does not want to use a key. If you use this version, make sure you order the correct hand.

Von Duprin is an industry leader in innovation with products like these and the concealed vertical cable system the brand introduced several years ago. I am

certain they will continue to innovate and make some of the best products on the market even better. 🧐



Greg Perry, CML, CPS, is a certified master locksmith and certified professional safe technician, working in all phases of locksmithing. He has taught various locksmith topics for 10 years. He currently works in the public sector as a locksmith. He has worked in the hardware industry since 1975 in wholesale, retail and institutional settings. He has written extensively for locksmith magazines and is a five-time *Keynotes* Author of the Year. *Any opinions expressed by Greg in his articles are his alone and do not reflect any official government position.*

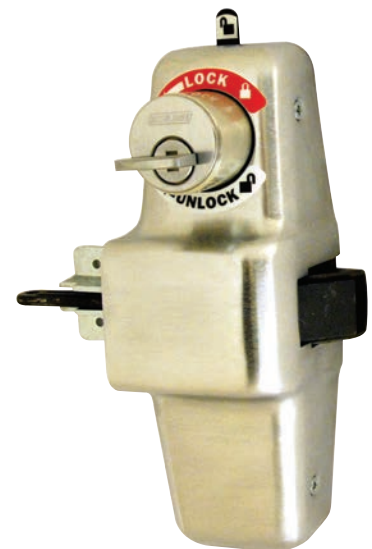


Figure 17. This photo is courtesy of Allegion/Von Duprin. It's the 2SI center case in the unlocked state. This means the outside trim is unlocked. The inside push bar always allows egress.

No Sharp or Pointed Objects

Tony Wiersielis, CPL, CFDI, explains why some people shouldn't be allowed to have tools.

SEVERAL YEARS AGO, I WAS WORKING IN A BEHAVIORAL HEALTH FACILITY in New York's Westchester County, just across the New Jersey state line. We were installing anti-ligature locks on all the patient rooms. For the uninitiated, that means the locks are designed so patients can not attach anything to them with which to hang themselves.

When we got to the floor with the young kids, I noticed a sign on one of the doors. Never forgot it. That's where I got this month's title, but, in this case, it doesn't have anything to do with mental health or suicide. Over the last few days, I've seen some installations and repairs that make me wonder why some people are allowed to have tools.

That College in Manhattan

The college bought a building down the block from my shop, and as leases expire, they're taking over floors and turning them into classroom and office spaces. My colleague Bill and I installed a bunch of BEST cylindrical locks, but an outside contractor was replacing the three stairwell exit doors. What you'll read about shortly is what I found when I went back



Figure 1. The closer is installed backwards.

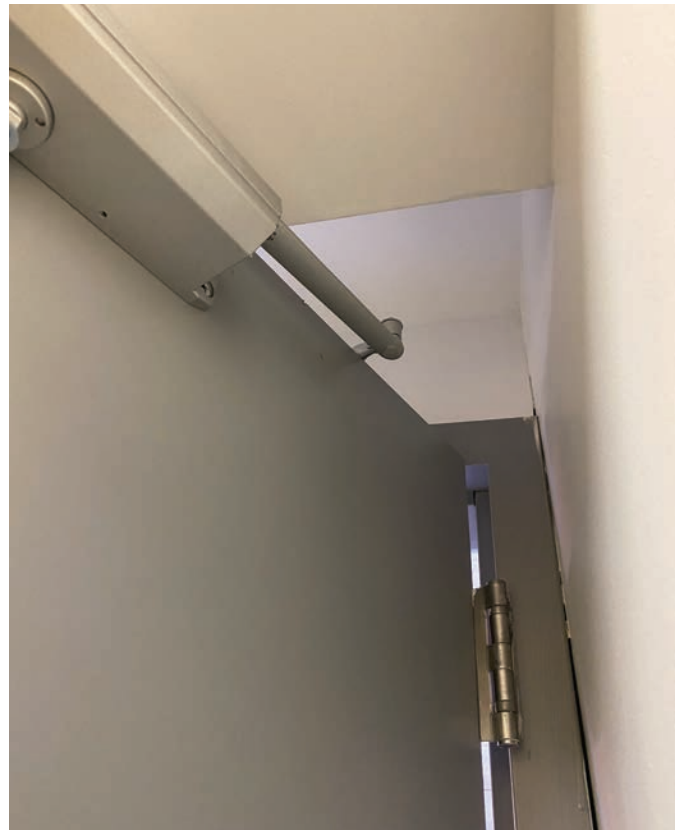


Figure 2. The main arm is about to hit the door.



Figure 3. The arm is hitting and stopping the door from opening fully.



Figure 4. The closer arm is chopping up the ceiling.

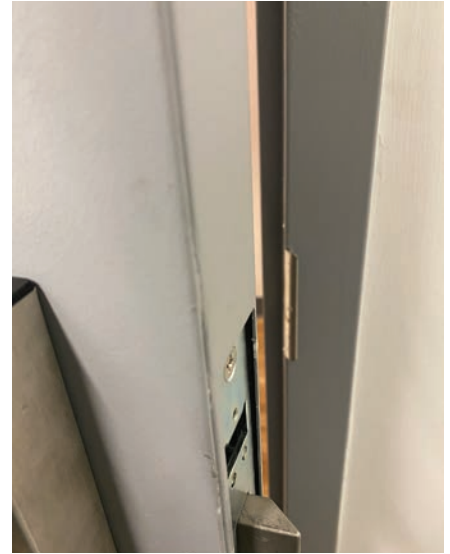


Figure 5. One of the doors is installed with the bevel on the wrong side, but it works.

to install BEST cylinders and cores on the building master key system. I'm also going to go through the steps of installing the cylinders in the new panic bar trims for those who've never done it.

I opened one of the exit doors, and it stopped dead at about 70 degrees. *Figure 1* shows what I found: The closer is installed backwards. *Figure 2* shows the main arm about to hit the door, and *Figure 3* shows it hitting and stopping the door from opening fully (which is really bad karma on an exit door). *Figure 4* is another photo with the closer arm chopping up the ceiling and probably sitting too high up in the door.

Here's why these things wind up backwards, aside from the ignorance of the installer: If you look at just about any set of instructions for a door closer, you'll likely see one diagram of an installed closer and something to the effect of "Right hand shown; reverse for left hand." Herein lies the problem; a lot of installers don't see or read that line. They put it on as they see it in the diagram, and that's why you see what I'm showing you.

It galls me that they don't seem to think there's anything wrong that the door can't

open fully, but I guess the attitude is to take the money and run before somebody checks their work. For whatever reason, they aren't coming back, and I'll be the one fixing them.

But Wait, There's More

It gets better (that would be sarcasm, which is difficult to "get" in the written word). One of the doors is installed with the bevel on the wrong side, but it works (*Figure 5*). But they had to drill another hole on the other side of the door, like the bottom hole in *Figure 6*. That left an unnecessary hole on the other side. Finally, not one of the mortise panic devices has a faceplate, which I need to order.

Now it actually does get better, no sarcasm. The bars and trims were an Adams Rite model I hadn't worked on before. I looked in the cylinder hole on the mounted trim and was pleasantly surprised to find the cylinder nut and the tool for tightening it stashed there (*Figure 7*). There were three screws with finish washers on the inside, and when I loosened them, the trim came off in one self-contained unit — no removing the bar, which is always a plus.



Figure 6. This extra hole left an unnecessary hole on the other side of a fire door.



Figure 7. The cylinder nut and the tool for tightening it were stashed in the cylinder hole.

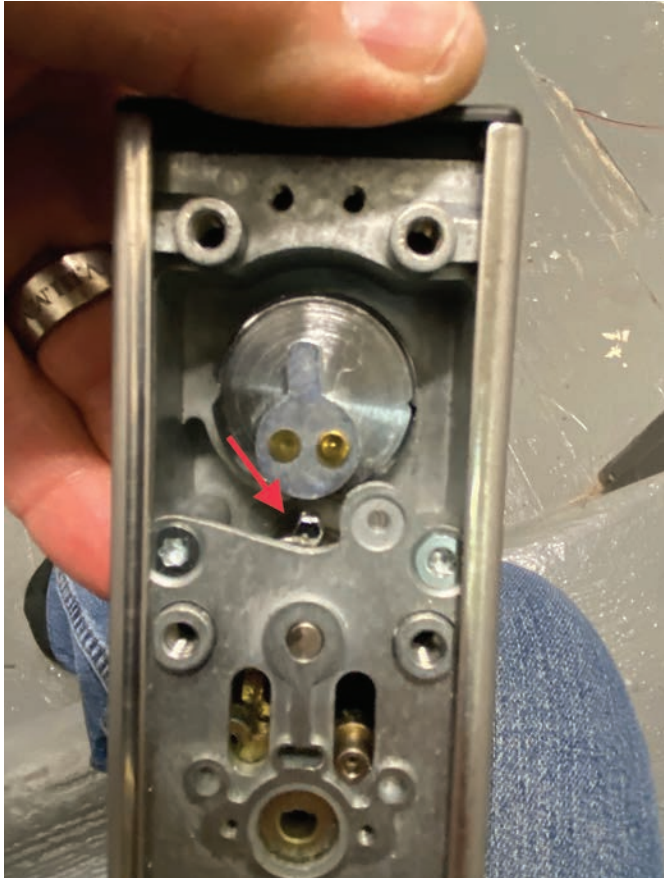


Figure 8. The red arrow points to what the cam actuates when you turn the key.



Figure 9. The author is turning the nut down to tighten it.



Figure 10. This image shows the rings the author used to get the cam to hit where it needed to.

In *Figure 8*, the red arrow points to what the cam actuates when you turn the key. It's a 360-degree turn in each direction to lock and unlock, as in classroom function. *Figure 9* shows me turning the nut down to tighten it, and *Figure 10* shows the rings I needed to use to get the cam to hit where it needed to. This installation was inside a building with cameras everywhere and regular security checks. If this were an outside door, I would have used wrench-resistance cylinder rings.

Meanwhile...

In another building, I had three work orders for stairwell doors that wouldn't latch and an interchangeable core for which the key stopped working. I took the core back to the shop and cleaned out the WD-40 residue and got it back into

shape. I try to use graphite, silicone, dry lube or the silicone version of WD. The original kind is a fish-based oil that tends to gum and attract dust.

For the newbies, a fire door on a stairwell that won't latch is a *big* deal. Whether the fire-rated hardware is passage or lockable isn't the issue; the door has to positively latch. I wonder sometimes if some building managers understand this, as you'll see in the following pictures of the two of the doors that wouldn't latch. I got them to latch for now, but I'm recommending that parts be replaced on all three.

Let me elaborate on why it's so important that the doors close and latch in the path of egress, especially in stairwells. Suppose you're on the sixth floor of a building, and there's a fire on three. There will be a great deal of pressure from the

rush of air trying to feed the fire, and if the door on three doesn't close and latch securely, it's possible for smoke and fire to spread into the stairwell and to other floors. This cuts off your means of egress past the third floor.

An example was a famous actor, who will remain nameless, who had a kitchen fire in his apartment in Manhattan. He ran out of the apartment, and the door didn't close behind him. Neither did the stairwell door as he ran downstairs. The fire spread to other floors, and three people were killed.

Back to the stairwell doors. I took pictures of two of the doors. The third door had an issue in which the lever on the trim was hanging down because of a broken spring and needed to be replaced. The second door wouldn't close all the way, and the reason was apparent by looking

at the arm position on the closer (Figure 11): There was no preloading of the arm. This is critical to ensuring the door pushes against the stop and positively latches. Otherwise, the door will tend to slow down and stop early.

You'll also notice the track of leaking hydraulic fluid to the left of the closer, which is never good. The loss of this fluid will cause erratic and violent behavior of the door. By violent, I mean that once the fluid in the closer is really low, there will be nothing to stop the closer spring from slamming violently. I'll be replacing this soon, but I needed to make it work that day. In Figure 12, you can see that I was able to move the arm to the right and preload it a bit. It worked, and the door closed, but what you see was as far as I could go with it.

On the third door, the latch was hitting low on the strike, and I needed to grind



Figure 11. There was no preloading of the arm.



WE ARE HERE TO MAKE YOUR LIFE A LITTLE EASIER

CPB140 Kaba Peaks Pinning / Capping Block

A great tool for locksmiths using Kaba Peaks .140 cylinders. The CPB140 comes with a pinning / capping block, ejecting pin and capping tool. Insert the core into the tool and eject the old pins quickly and easily. Flip the block over to load the chambers and cap the core. Made in the USA.



FRA2 Code Machine

Standard Package Includes:

- FRA2 Code Machine
- Depth & Space Manual
- FC8445 Standard Cutting Wheel
- Six Spacing Blocks
- FC8615 Medeco Cutter
- Dial Calipers
- Brass Shim
- 1/8" Allen Wrench
- Spacing Clip



Everything you need to get started in code work



50 Packs Now Available

BD861-50
MAILBOX KEY - 50 PACK
BD863-50
MAILBOX KEY - 50 PACK

NEW



WWW.FRAMON.COM
sales@framon.com



WWW.BLUEDOGKEYS.COM
sales@bluedogkeys.com

Contact BOTH Blue Dog Keys and Framon Manufacturing Company:

989-354-5623 PHONE | **989-354-4238** FAX | 1201 W. CHISHOLM STREET ALPENA MI 49707



Figure 12. The author was able to move the arm to the right and preload it a bit.



Figure 13. Someone had previously removed almost $\frac{1}{2}$ " of metal (red arrow). The blue arrow points to where the opening used to stop before they removed the metal.



Figure 14. The door is in the fully closed position.



Figure 15. You can see how much play there is in the door.



Figure 16. Somebody had decided to grind off part of the latch as well.

the strike down to get it to latch at all. In *Figure 13*, you can see brass at the bottom of the strike where I used a carbide burr to remove the metal. Notice how wide the opening is in the strike. That's because somebody before me decided to remove

almost $\frac{1}{2}$ " of metal (red arrow). The blue arrow points to where the opening used to stop before they removed the metal. *Figure 14* shows the door in the fully closed position. In *Figure 15*, I pulled on the lever with the latch engaged in

the strike. You can see how much play there is in the door. It didn't help that somebody, in a moment of brilliance, decided to grind off part of the latch as well (*Figure 16*).

Another Problem

Sometimes, people cause trouble with a pen instead of tools and sharp objects. Take a look at the following two pictures from one page of a bitting list for a BEST A2 IC core master key system. In *Figure 17* (the printed list), look at the cuts for MB14. Then look at *Figure 18* with the handwritten note "Greenhouse." Note that it is also MB14, but the cuts are different. And there's no other information. Not shown are the cuts for the GM and control key, which appear at the top of the bitting list.

This is a two-step progression, which means there must be at least two pin size increments or more between progressions. So the smallest master pin that can be used with an A2 system would be a 2B.

I'm going to use the letter E for even numbers and O for odd to show you

MB6	90	32	14
MB7	90	34	14
MB8	90	36	14
MB9	90	38	14
MB10	90	32	34
MB11	90	34	34
MB12	90	36	34
MB13	90	38	34
MB14	90	32	54
MB15	90	34	54
MB16	90	36	54
MB17	90	38	54
MB18	90	32	96
MB19	90	34	96
	90	36	96
	90	38	96

Figure 17

MB54	90	36	10
MB55	90	38	10
MB56	90	32	30
MB57	90	34	30
MB58	90	36	30
MB59	90	38	30
MB60	90	32	50
MB61	90	34	50
MB62	90	36	50
MB63	90	38	50
MB64	90	38	50

Greenhouse (416598)
MB-14

Figure 18

Figures 17 and 18. In these two images, they are both for MB14, but the cuts are different.



INTERNATIONAL DISTRIBUTION NETWORK

idn

WE MAKE SECURITY SIMPLE

Meet The Family

The Standard for Key Cutting Technology



IDN is your source
for all
Key Machines



NEW!
(Cuts Medeco)

Futura Edge Plus



Futura Auto



Futura Edge



Futura Pro



Futura Pro One

Contact your local IDN Branch for a quote or to place an order!

www.idn-inc.com

OVER 50 LOCATIONS IN THE U.S. AND CANADA

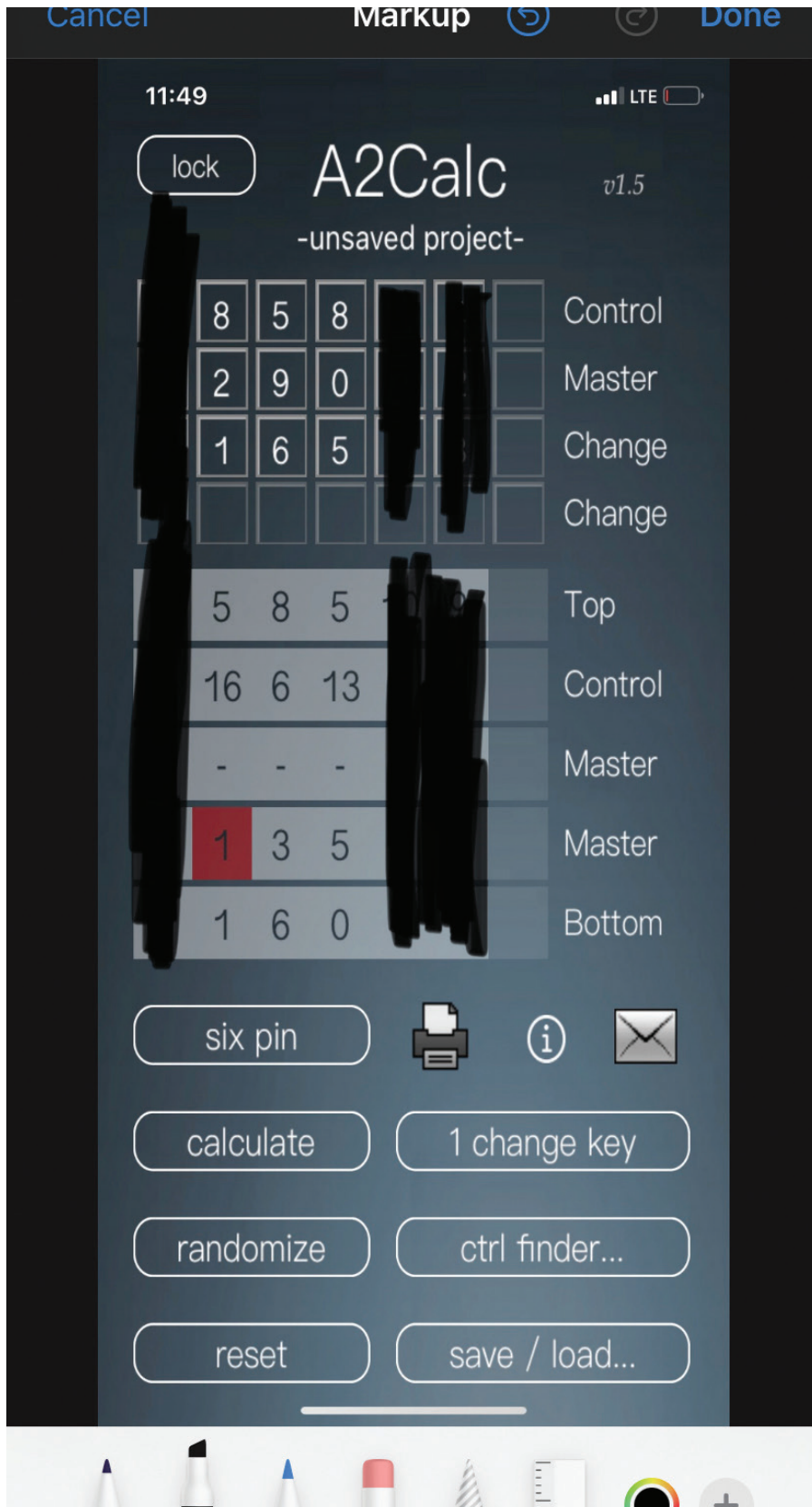


Figure 19. The author had an issue when he entered the bittings into the A2 Calc app.

what's going on here. The cuts for MB14 on the printed list are, from first to sixth chamber, EEOEOE. In the handwritten note, the cuts are EOEOOE. Notice that in the second, third and fourth chambers, what is odd on the first key is even on the second, and vice versa. This is bad news.

What's supposed to happen is that whatever the top master key (TMK) has as a sequence of odd and even cuts, the change keys and control keys should match it. Another way of saying it is: If the TMK is EOEOEO, then all the keys in the system must be EOEOEO. This is known as parity; what is even is even, and what is odd is odd. If you don't have parity, there's going to be issues like what happened to me when I tried to build a core for the handwritten MB14.

I had to assume the control and GM cuts were the ones listed at the top of the page, since there were no other notes. I entered the bittings into the A2 Calc app and tapped calculate. Bam! I had an issue. *Figure 19* shows the A2 Calc app; I blacked out everything except the chambers involved. The control and the GM are the top two lines. Notice that in each chamber, both control and GM are either odd or even.

Now look at the change key in those three chambers, and you'll see there's no parity. In other words, every cut in each chamber should be either even or odd, but they aren't. Understand that I'm referring only to the top part of the picture, which is the key cuts or biting. The pins that are actually going to be in each chamber can be odd or even as long as the total pin stack height equals 23.

Because of this lack of parity, you see the red box in the second chamber alerting me that there's something wrong, and this can't work. Remember I said this is a two-step progression? A 1B master pin does not exist in BEST A2 systems, and if it did, it would be so thin as to cause all manner of issues. Effectively, whoever



SAVE THE DATE!

April 4-9, 2022

Griffin Gate Marriott | Lexington, Kentucky



Information coming soon on SAVTA.org



Figure 20. This is a BEST A2 pin kit.



Figure 21. This is a BEST A4 pin kit.

chose the numbers in the handwritten note ruled out the use of any pins in the second chamber, drastically reducing the security of the core.

And Yet One More Issue...

I figured something else out to solve the immediate issue, but things got worse. There are other cores at the greenhouse that work with this rogue key, but none of the various control keys or masters in the shop works with them. With the stroke of a pen, this guy made life miserable for me and the guy who comes after me, since I'm only filling in until they hire a full-time locksmith. I always say we should be considerate of whoever comes after us. Didn't happen here.

I've said a number of things about BEST that might be confusing to those not familiar with it, so here's a short primer on the pins and kits. *Figure 20* is a BEST A2 pin kit, and *Figure 21* is an A4 pin kit. You can see how the pins are numbered and lettered. The A2 kit has "A" bottom pins and "B" master pins. The A4 kit has "E" bottom pins and "F" master pins. Of these pins, the only size that is interchangeable between these kits is the "0" bottom pin. The A2 pin stacks total 23, and the A4 total 14.

The reason the letters jump from A and B to E and F is because there is an A3 system, and those pins are C and D. I have an A3 kit that I inherited from another tech, but I have never used it in

all these years. I couldn't find it, but when I do, I'll show you a picture. My buddy Bill has been around over 30 years and has never used one either. They're in use in certain places, but not where I am. I've also heard there was an issue with a pin size causing problems, but I'm not so sure about that anymore. ☺



Tony Wiersielis, CPL, CFDI,

has more than 37 years of experience and has worked in most phases of the trade throughout the New York metropolitan area. He was

named *Keynotes* Author of the Year for 2016 and serves as ALOA's Northeast Director. Reach him at aew59@juno.com.



ALOA

ALOA Security Professionals Association, Inc.

Membership Application

CANDIDATE PLEASE TYPE OR PRINT

Name: ☐ Mr. ☐ Mrs. ☐ Ms. First _____ Last _____ MI _____ Designation _____

Business Name _____

Mailing Address _____

City _____ State _____ Zip Code _____ Country _____

Work Phone _____ Home Phone _____ Fax _____

Email Address _____ Website _____

Date of Birth (required) _____ Place of Birth _____ Social Security # (required) _____

US Citizen? ☐ Yes ☐ No If No, citizen of what country? _____

ALOA occasionally makes its members' addresses (excluding phone numbers and email addresses) available to vendors who provide products and services to the industry. If you prefer not to be included in these lists, please check here: ☐

PROFESSIONAL INFORMATION

Please check the description that best describes you (check all that apply)

- | | | |
|--|--|---|
| <input type="checkbox"/> Locksmith Owner | <input type="checkbox"/> Automotive | <input type="checkbox"/> Employee Technician |
| <input type="checkbox"/> Electronic Security | <input type="checkbox"/> Security Professional | <input type="checkbox"/> Mechanical Door Locks & Hardware |
| <input type="checkbox"/> Institutional | <input type="checkbox"/> Safes | <input type="checkbox"/> Investigative |
| <input type="checkbox"/> Other _____ | | |

Are you licensed to perform Locksmith/Access Control work in your state? ☐ Yes ☐ No If Yes, License # _____

Business License # _____ EIN # _____

Any other license held by applicant (Contractors Lic., Low Voltage) _____

Any other states you do business in and licenses held in those states _____

List all phone numbers used by your company/companies: _____

Number of Employees _____ ☐ Store Front Business ☐ Mobile Only

How did you learn locksmithing/access control? _____

How long have you worked in the locksmithing/security industry? _____

ALOA member Sponsor Name/Who introduced you to ALOA?

Sponsor Name (Required) _____ ALOA Number _____ Years known _____

Have you ever been a member of ALOA before? ☐ Yes ☐ No If Yes, when? _____ ID #, if known _____

Are you a member of any local locksmith association? ☐ Yes ☐ No If Yes, name of association: _____

Give the names and phone numbers of two industry-related references:

Name _____ Company _____ Phone Number _____

Name _____ Company _____ Phone Number _____

IMPORTANT: Have you ever been convicted of a felony? ☐ Yes ☐ No If yes, please give details on a separate sheet.

All convictions are reported to the Advisory Committee for review.

A routine background check is performed on all new applicants, unless you live in a State in which passing a background check is a part of the licensing requirements. Non-US citizen background checks are required. If you live in a country that does not allow third party background checks, you will be required to submit an authentic report upon request (no copies/duplicates allowed) before final membership approval can be granted. A copy of your business permit/license, license number, business card, company letterhead or suitable proof of employment in the locksmith/access control business must accompany application.

TYPES OF MEMBERSHIP AND REQUIREMENTS

Check only one box from the categories listed below:

Active Membership

Persons actively engaged in the locksmith/access control industry for a minimum of two years and have achieved one of ALOA's recognized program designations.

- | | | | |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$265 | <input type="checkbox"/> I elect to Go Green | \$235 |
| <input type="checkbox"/> International | \$275 | <input type="checkbox"/> I elect to Go Green | \$205 |

International Association of Investigative Locksmiths Membership

Must be an ALOA Member in order to join the IAIL.

- | | |
|--|------|
| <input type="checkbox"/> US and US Territories | \$55 |
|--|------|

Probationary Membership

Persons undergoing training to qualify as an Active member, who have not received one of ALOA's recognized program designations. No person shall be a probationary member for more than three years.

- | | | | |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$265 | <input type="checkbox"/> I elect to Go Green | \$235 |
| <input type="checkbox"/> International | \$275 | <input type="checkbox"/> I elect to Go Green | \$205 |

Probationary Membership – No Sponsorship Required

Persons undergoing training that are new to the industry and do not know any Active member for sponsorship. Probationary period extended from 90 days to one (1) year. Probationary status lifted if sponsor acquired within year. Must obtain license if residing in State requiring licensure. A second background check will be performed by ALOA after 2 years of the 3 year maximum term. Any violation of ALOA Code of Ethics during probationary period will result in immediate termination of membership.

- | | | | |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$265 | <input type="checkbox"/> I elect to Go Green | \$235 |
| <input type="checkbox"/> International | \$275 | <input type="checkbox"/> I elect to Go Green | \$205 |

Allied Membership

Persons whose position in the locksmith/access control industry relates to locksmiths, and cannot qualify for any other class of membership.

- | | | | |
|--|-------|--|-------|
| <input type="checkbox"/> US and US Territories | \$265 | <input type="checkbox"/> I elect to Go Green | \$235 |
| <input type="checkbox"/> International | \$275 | <input type="checkbox"/> I elect to Go Green | \$205 |

Note: Your application will be processed with a 90 day waiting period.

Any institutional locksmith not using his/her work address must submit a letter from employer stating that you are an institutional locksmith.

DUES AND FEES

An application fee and the appropriate dues must accompany the application in order for processing to begin.

Application Fees Schedule:

US and US Territories	\$70
Canada, Denmark, Ecuador, New Zealand	\$160
Australia, Bahamas, Barbados, Belgium, Belize, Bermuda, China, France, Haiti, Philippines, UK	\$210
Israel, Korea, Papua New Guinea, Saudi Arabia, United Arab Emirates	\$360

Applicants from countries not listed must submit background check and report from local Law Enforcement with application.

FINAL CHECKLIST

- | | |
|---|-------|
| <input type="checkbox"/> Required Proof of Employment in Industry | _____ |
| <input type="checkbox"/> Annual Dues Amount | _____ |
| <input type="checkbox"/> Application Fee | _____ |
| Total Amount Due | _____ |

METHOD OF PAYMENT

- ☐ Check ☐ MasterCard ☐ Visa ☐ American Express ☐ Discover

Card Number _____ Expiration Date _____ SEC _____

Print Name on Card _____

Signature _____ Date _____

I understand and consent that in the course of reviewing this application ALOA may review publicly available information for the purpose of verifying the information submitted and do a background check.

I certify that all statements are true and, if accepted as a member, I agree to abide by the rules, regulations, and Bylaws of ALOA, and further agree to adopt the Code of Ethics of ALOA as my own, and adhere to it to the best of my ability. Should my membership be discontinued, I agree to return my membership card and cease use of all ALOA insignia.

Signature _____ Date Signed _____

Dues, Contributions, Gifts are not deductible as charitable contributions for Federal income tax purposes. Dues payments are deductible as an ordinary and necessary business expense. However, donations made to the Legislative Action Network ARE NOT deductible as a charitable gift or business expense.

Return to:

ALOA, 1408 N. Riverfront Blvd #303, Dallas, TX 75207
Fax (469) 453-5241 • Email: membership@aloea.org

DISTRIBUTORS

Access Hardware Supply

Phone: 800-348-2263
Fax: 510-435-8233
www.accesshardware.com

Accredited Lock Supply Co.

Phone: 800-652-2835
Fax: 201-865-2435
www.acclock.com

American Key Supply

Phone: 800-692-1898
Fax: 650-351-5973
www.americankeysupply.com

Anixter

Phone: 859-425-3316
www.anixter.com

Banner Solutions

Phone: 888-362-0750
www.bannersolutions.com

Capitol Industries

Phone: 514-273-0451
Fax: 514-273-2928
www.capitolindustries.com

Car And Truck Remotes.Com

Phone: 678-528-1700
Fax: 844-457-8948
www.carandtruckremotes.com

Direct Security Supply, Inc.

Phone: 800-252-5757
Fax: 800-452-8600
www.directsecuritysupply.com

Fried Brothers Inc.

Phone: 800-523-2924
Fax: 215-627-2676
www.fbisecurity.com

Hans Johnsen Company

Phone: 214-879-1550
Fax: 214-879-1520
www.hjc.com

H L Flake Co.

Phone: 800-231-4105
Fax: 713-926-3399
www.hlflake.com

IDN Incorporated

Phone: 817-421-5470
Fax: 817-421-5468
www.idn-inc.com

Intermountain Lock & Security Supply

Phone: 800-453-5386
Fax: 801-485-7205
www.imlss.com

Jovan Distributors Inc.

Phone: 416-288-6306
Fax: 416-752-8371
www.jovanlock.com

Key4, Inc.

Phone: 213-788-5394
Fax: 213-788-5444
www.key4.com

Keyless Entry Remote, Inc.

Phone: 402-671-5100
Fax: 402-671-5100
www.keylessentryremotefob.com

Keyless Ride

Phone: 877-619-3136
Fax: 409-216-5058
www.keylessride.com

Lockmasters, Inc.

Phone: 859-885-6041
Fax: 859-885-1731
www.lockmasters.com

Locksmith Ledger International

Phone: 847-454-2700
Fax: 847-454-2759
www.locksmithledger.com

Locksmith Resource

Phone: 312-789-5333
Fax: 925-666-3671
www.locksmithresource.com

Midwest Keyless

Phone: 815-675-0404
Fax: 815-675-6484
www.midwestkeylessremote.com

Security Lock Distributors

Phone: 800-847-5625
Fax: 800-878-6400
www.seclock.com

Southern Lock and Supply Co.

Phone: 727-541-5536
Fax: 727-544-8278
www.southernlock.com

Stone & Berg Wholesale

Phone: 800-225-7405
Fax: 800-535-5625
www.stoneandberg.com

TimeMaster Inc.

Phone: 859-259-1878
Fax: 859-255-0298
www.time-master.com

Transponder Island

Phone: 440-835-1411
Fax: 216-252-5352
www.transponderisland.com

Turn 10 Wholesale

Phone: 800-848-9790
Fax: 800-391-4553
www.turnten.com

UHS Hardware

Phone: 954-866-2300
www.uhs-hardware.com

U.S. Lock Corp.

Phone: 800-925-5000
Fax: 800-338-5625
www.uslock.com

MANUFACTURERS

ABUS KG

Phone: 492-335-634151
Fax: 233-563-4130
www.abus.com

ABUS USA

Phone: 623-516-9933
Fax: 623-516-9934
www.abus.com

ACS s.r.l.

Phone: 052-291-2013
Fax: 052-291-2014
www.acs.re.it

Allegion

Phone: 317-810-3230
Fax: 317-810-3989
www.allegion.com

Altronix

Phone: 718-567-8181
Fax: 718-567-9056
www.altronix.com

American Security Products

Phone: 800-421-6142
Fax: 909-685-9685
www.amsecusa.com

ASSA, Inc.

Phone: 800-235-7482
www.assalock.com

Advanced Diagnostics USA

Phone: 650-876-2020
www.adusa.us

Autel US Inc.

Phone: 855-288-3587
www.autel.com

Brilliant Guard

Phone: 630-229-4601
www.brilliantguard.com

Bullseye S.D. Locks LLC

Phone: 859-224-4898
Fax: 859-224-1199
www.bullseyedlocks.com

CompX Security Products

Phone: 864-297-6655
Fax: 864-297-9987
www.compx.com

DETEX Corporation

Phone: 800-729-3839
Fax: 800-653-3839
www.detex.com

Digipas Technologies, Inc.

Phone: 949-558-0160
Fax: 949-271-5701
www.egeetouch.com

Don-Jo Manufacturing, Inc.

Phone: 978-422-3377
Fax: 978-422-3467
www.don-jo.com

Door Closer Service Co.

Phone: 301-277-5030
Fax: 301-277-5080
www.doorcloser.com

Door Controls International

Phone: 800-742-3634
Fax: 800-742-0410
www.doorcontrols.com

dormakaba Best

Phone: 317-810-1000
www.dormakaba.com

FireKing Security Group

Phone: 800-342-3033
Fax: 708-371-3326
www.fireking.com

FJM Security Products

Phone: 800-654-1786
Fax: 206-350-1186
www.fjmsecurity.com

Framon Manufacturing Company Inc.

Phone: 989-354-5623
Fax: 989-354-4238
www.framon.com

Gardall Safe Corporation

Phone: 312-432-9115
Fax: 315-434-94228
www.gardall.com

General Lock

Phone: 858-974-5220
Fax: 858-974-5297
www.generallock.com

Global Tecpro, Ltd.

Phone: 86 152 2033 2799
www.gtl.tw

Hollon Safe

Phone: 888-455-2337
Fax: 866-408-7303
www.hollonsafe.com

HPC/Hudson Lock

Phone: 800-323-3295
Fax: 978-562-9859
www.hudsonlock.com

IKYLESS LLC.

Phone: 502-442-2380
www.ikyless.com

International Key Supply

Phone: 631-433-3932
internationalkeysupply.com

Jet Hardware Mfg. Co.

Phone: 718-257-9600
Fax: 718-257-0973
www.jetkeys.com

JMA USA

Phone: 817-385-0515
Fax: 817-701-2365
www.jmausa.com

KABA ILCO Corp.

Phone: 252-446-3321
Fax: 252-446-4702
www.kaba-ilco.com

KEY-BAK/West Coast Chain Mfg

Phone: 909-923-7800
Fax: 909-923-0024
www.keybak.com

Keyincode, LLC

Phone: 978-207-0269
https://keyincode.com

Keyline USA

Phone: 800-891-2118
Fax: 216-803-0202
www.bianchi1770usa.com

Klassy Keys

Phone: 888-844-5397
Fax: 806-610-6670
www.klassykeys.com

KSP-Killeen Security Products

Phone: 800-577-5397
Fax: 508-753-2183
www.iccore.com

Locinox USA

Phone: 877-562-4669
www.locinoxusa.com

Lock Labs, Inc.

Phone: 855-562-5522
www.locklabs.com

Lock Net LLC

Phone: 800-887-4307
Fax: 877-887-4958
www.locknet.com

LockPicks.Com

Phone: 408-437-0505
Fax: 408-516-0505
www.lockpicks.com

Locksmith Services s.r.o.

Phone: 420-604-226550
www.locksmith.ca

Lucky Line Products, Inc.

Phone: 858-549-6699
Fax: 858-549-0949
www.luckyline.com

Master Lock Company LLC

Phone: 800-558-5528
Fax: 414-444-0322
www.masterlock.com

Medeco Security Locks

Phone: 540-380-5000
Fax: 540-380-1768
www.medeco.com

Mul-T-Lock USA

Phone: 800-562-3511
www.mul-t-lockusa.com

National Auto Lock Service Inc.

Phone: 650-875-0125
Fax: 650-875-0123
www.laserkey.com

Olympus Lock Inc.

Phone: 206-362-3290
Fax: 206-362-3569
www.olympus-lock.com

Pacific Lock Company

Phone: 888-562-5565
Fax: 661-294-3097
www.paclock.com

PDQ Manufacturing

Phone: 717-656-5355
Fax: 717-656-6892
www.pdqlocks.com

Philadelphia Hardware Group

Phone: 858-642-0450
Fax: 858-642-0454
www.philihardware.com

Premier Lock

Phone: 908-964-3427
Fax: 877-600-4747
www.griptighttools.com

RemoteLock Pro

Phone: 877-254-5625
www.remotelockpro.com

Sargent and Greenleaf, Inc.

Phone: 859-885-9411
Fax: 859-885-3063
www.sargentandgreenleaf.com

SECO-LARM USA INC.

Phone: 949-261-2999
Fax: 949-261-7326
www.seco-larm.com

SecuRam Systems, Inc.

Phone: 805-988-8088
www.securamsys.com

Secure- T- Agency (STA)

Phone: 514-963-3701
Fax: 514-447-1024
www.secure-t.ca

Securitech Group Inc.

Phone: 718-392-9000
Fax: 718-392-8944
www.securitech.com

Security Door Controls

Phone: 805-494-0622
Fax: 866-611-4784
www.sdcsecurity.com

Select Hinges

Phone: 269-910-1988
Fax: 269-323-3815
www.selecthinges.com

Stanley Security Solutions Inc.

Phone: 317-572-1934
Fax: 317-578-4909
www.stanleysecuritysolutions.com

STRATTEC Security Corp.

Phone: 414-247-3333
Fax: 414-247-3564
http://aftermarket.strattec.com

Tecnoinsurrezza

Phone: 859-480-9918
www.usatecno.com

TopDon USA, Inc.

Phone: 833-629-4832
www.topdonusa.com

TownSteel, Inc..

Phone: 626-965-8917
www.townsteel.com

Vanderbilt Industries

Phone: 973-316-3900
Fax: 973-316-3999
www.vanderbiltindustries.com

Wilson Bohannon Company

Phone: 800-382-3639
www.padlocks.com

SERVICE ORGANIZATIONS

ASSA Technical Services Inc.

Phone: 724-969-2595
www.assatechnicalservicesinc.com

Facilities IQ

Phone: 412-956-2900
www.myfacilitiesiq.com

KeyMe

Phone: 602-538-7052
www.key.me

Workiz Inc.

Phone: 855-790-7363
www.workiz.com

HELP WANTED

Employer: North Carolina State University

Working Title: Locksmith II

Anticipated Hiring Range: \$40,000 - \$42,000

Work Schedule: M-F, 7:00 a.m. – 3:30 p.m.

Job Location: Raleigh, NC

Link to job posting: <https://jobs.ncsu.edu/postings/137577>

Primary job responsibilities for the Locksmith II position include, but are not limited to:

- Servicing, repairing and installing all door hardware, including fire rated exit devices, closers, mortise, and cylindrical locking hardware.
- Understanding of NFPA 101 and NFPA 80 life safety and fire codes, and the ability to locate and research needed materials associated with job from vendor source.
- Providing cost estimates and proposals.
- Working knowledge in key bittings array for small format master keying, pinning of cores, ability to research and collect information pertaining to customer needs.

Minimum Experience/Education:

- High school diploma or equivalency; or demonstrated possession of the competencies necessary to perform the work.
- Knowledge and skills necessary that relates to keying a building, paperwork and documentation associated with rekeys and the ability to coordinate key meetings, pinning cores, cutting keys, and installation of hardware.

Required Licensing and Certifications:

- Valid Driver's license required. Must be able to obtain a valid NC driver's license within 60 days of hire and it must be maintained.
- Current locksmith license required.

NC State offers a comprehensive benefits package designed to provide a variety of choices for Staff/Faculty and their families. This includes but is not limited to Health Insurance, Holiday Pay, Annual and Sick Leave, Retirement Plans, Tuition Waiver Program, Wellness Programs, Recognition Programs, and WolfPerks Discounts. You can learn more about the plans here: <https://benefits.hr.ncsu.edu/>. <12/21>

Classified Advertising Policy

Classified advertising space is provided free of charge to ALOA members and for a fee of \$3 per word with a \$100 minimum for nonmembers. Classified ads may be used to advertise used merchandise and overstocked items for sale, "wanted to buy" items, business opportunities, employment opportunities/positions wanted and the like. Members or nonmembers wishing to advertise services or new merchandise for sale may purchase a "Commercial Classified Ad" for a fee of \$4 per word with a minimum of \$100.

Each ad will run for three consecutive issues. For blind boxes, there is a \$10 charge for members and nonmembers. All ads must be submitted in a word document format and emails to adsales@aloea.org by the 15th of the month two months prior to issue date. ALOA reserves the right to refuse any classified advertisement that it deems inappropriate according to the stated purpose of the classified advertising section.

FOR SALE

51 YEAR OLD LOCKSMITH BUSINESS FOR SALE

Owners looking to retire. Very well established locksmith business for sale in the beautiful mountains of central Pennsylvania. Looking to get away from hurricanes, tornados, wildfires, mud slides, floods or even volcanoes? We have none of that here. Just a few snow storms once in a while. This business is not for a beginner. There are four full-time locksmiths and two office staff. The owner will stay on for a year if needed to help with the transition. The new owner should be well versed in most aspects of locksmith duties. For details send inquires to:

frdlckdr@AOL.com

Google Frederick Lock And Key

For aerial photos visit this link

<https://www.dropbox.com/sh/hq518r6l8e97re6/AADtMV7dWDyZghXKdneIQkBda?dl=0> <11/21>

SAVE THE DATE

SOUTHERN SECURITY EXPO

Columbia, SC

October 1st – 2nd

REGISTER NOW!

SouthernSecurityExpo.com <11/21>



We have the perfect audience
ready and waiting — all you
have to do is reach out to them.

KEYNOTES

Visit www.keynotesads.com
or email adsales@aloea.org
for details

Advertiser	Ad Location	Website	Phone Number
ASSA-Ruko/Technical Services	page 29	www.assatechnicalservicesinc.com	(724) 969-2595
Autel	pages 22, 23	www.autel.com	(855) 288-3587
Big Red	page 29	www.bigredsafelocks.com	(877) 423-8073
Bullseye S.D. Locks	page 29	www.bullseyesdlocks.com	(800) 364-4899
ClearStar Security Network	page 60	www.clearstar.com	(360) 379-2494
Framon	page 49	www.framon.com	(989) 354-5623
Hollon Safe	page 1	www.hollonsafe.com	(888) 455-2337
IDN	page 51	www.idn-inc.com	
Jet Hardware Mfg. Co.	back cover	www.jetkeys.com	(718) 257-9600
John Koons	page 60	www.koonslocksmiths.com	(239) 936-0373
North American Bancard	page 33	www.nynab.com	
Seclock	inside front cover, pages 15, 29	www.seclock.com	(800) 847-5625
Southern Lock	page 27	www.southernlock.com	(800) 282-2837
Turn 10 Wholesale	page 3	www.turnten.com	(800) 848-9790
UHS Hardware	inside back cover	www.uhs-hardware.com	(800) 878-6604

Work With Us

Join our staff at
John Koons Locksmiths

Please call or Email for information relating to
employment with our firm.

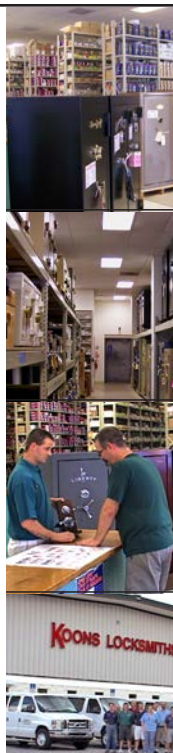
- Locksmiths
- Safe Technicians
- Safe Movers

1.800.282.8458

Fax: 1.239.939.5869

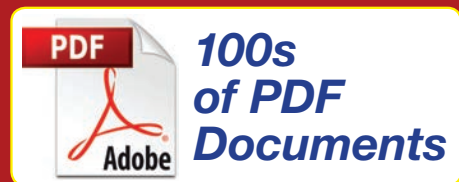


3635 Fowler Street, Fort Myers, FL, 33901
info@koonslocksmiths.com



ClearStar[★] SECURITY NETWORK

Online Answers 24/7



*The #1 online choice of
professional locksmiths and
safe techs remains...*



CSN
Since 1995

*Seeing is
believing!*
Free trial
memberships

ClearStar.com[★]



USE CODE **LEDGER20**
FOR **\$20 OFF** YOUR ORDER

UHS HARDWARE



SCAN THE
CODE TO
VISIT OUR
WEBSITE!

FAST, FREE SHIPPING FOR ORDERS OVER \$99



Keyless FACTORY

HIGH QUALITY AUTOMOTIVE PRODUCTS



Kenard

RESIDENTIAL & COMMERCIAL LOCKS

DE Guard

MAXIMUM STRENGTH



BALDWIN

Timeless Craftsmanship



AUTEL



XTOOL



Consdor®



KEYLINE USA



Xhorse



OVER 150 BRANDS IN STOCK
OVER 20,000 DIFFERENT ITEMS
TO CHOOSE FROM!



Locks & Cylinders - Door Hardware - Keys & Remotes
Tools & Accessories - Machines - Safes
Surveillance Systems



WE OFFER
PROFESSIONAL
TRAINING CLASSES



1-800-878-6604



UHS-HARDWARE.COM

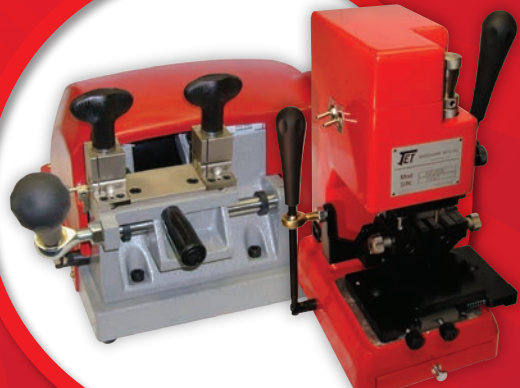
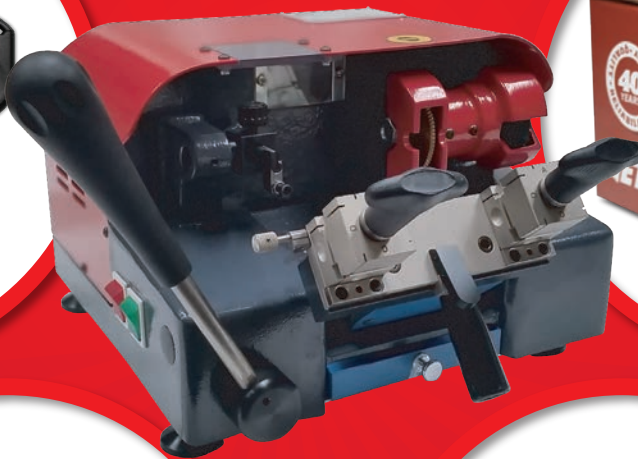


SECURITY IS THE KEY



The Best is here, the rest is up to you.

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

The Jet Hardware logo, featuring the word "JET" in a stylized, bold, red font with a white outline.