

KEYNOTES

SECURING YOUR SUCCESS



DECODING LOCKSMITH CODE PROGRAMS

A Look at Codes On Line and More

Scripophily: A New Love for Old Stuff

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Closing Out 2021

IT IS DECEMBER ALREADY; THIS YEAR SEEMS TO HAVE FLOWN BY. WE STARTED it off in masks and “anti-social distancing,” PPP loans and sending employees home. Then the vaccinations came, and finally this summer, we were able to get rid of the masks (most of the time). Then the Delta variant came, and we were back to masks.

Despite it all, we managed to have a great ALOA convention. Even though we were hoping to just break even, we did much better — probably because people were just getting tired of being locked up and wanted to get out and see friends. While online learning can be good, it’s always nice to be able to take classes where you can see people and get your hands on the merchandise.

IAAL

We are seeing the plans for the International Association of Automotive Locksmiths getting finalized very rapidly. It should be up and running very soon. Start making plans to attend its convention. If you think you cannot afford it, just put one or two trip charges a month in a special account, and you will be able. Education may not be cheap, but the lack of it can be expensive. Also, you get to make new friends as well as see old ones.

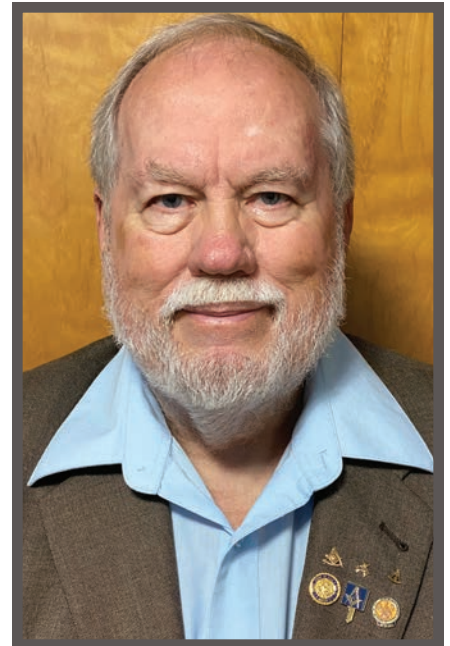
End-of-the Year Planning

Now is the time to start looking at your income and expenses for next year. There have been several price increases this year for the cost of goods and services, and hopefully you have been keeping up. There is nothing worse than getting to year-end and finding out that your income went down because prices went up and you did not adjust accordingly.

Finally, Christmas time (not Xmas) is approaching. Remember what the holiday is all about. Celebrate it responsibly and we will *all* have a great year next year. I hope to see many of you at the various trade shows and conventions next year.



Bill Mandlebaum, CML
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**“Education
may not be
cheap, but the
lack of it can
be expensive.”**

Become an ALOA Lifetime Benefactor

I HOPE EVERYONE IN THE U.S. had a wonderful Thanksgiving! As we get into the last few weeks of the year, this is a time that many spend planning for the upcoming year: goals, business plans, taxes... so much to do! Many of us also make some last-minute donations that we've meant to make all year that we want to ensure get counted on the 2021 tax year.

One avenue you might consider is becoming an ALOA Lifetime Benefactor. Not only is it tax deductible, but you get so many benefits — including never having to pay dues again! You will save on dues over your lifetime in the industry, and at the same time provide extra support to ALOA: We get your investment up front and in turn get to invest that money in the future of ALOA, the industry and all of our members. You help us improve programs and education, and you improve your own bottom line over time. What's not to like?

Your Benefits

As Lifetime Benefactors, you continue to receive the benefits you have come to know as ALOA members: discounts on education and ALOA Bookstore items, receiving *Keynotes* each month, access to insurance programs, FindALocksmith.com listing and more. In addition, you get lifetime complimentary exhibits registration at the

“Not only is it tax deductible, but you get so many benefits — including never having to pay dues again!”

Security Expo at the ALOA Convention, and you will never have to pay the legislation fee or dues again! That's one fewer thing you must worry about at the end of each year.

As a thank you for being a part of the Lifetime Benefactor program, you receive recognition as well: You'll get a special membership card and certificate and be listed on the Lifetime Benefactor plaque and in each annual convention issue of *Keynotes*.

Your Investment

To be accepted into the Lifetime Benefactor program, members must have achieved at least one of ALOA's certification designations, and you must continue to maintain active member status qualifications.

The rate you pay is based on your age on a sliding scale: \$1,545 for those age 66 and older; \$4,120 for ages 36-49, \$3,015 for those ages 50 to 65 and \$6,025 for 35



and under. There is an additional discount if you choose to be Go Green members as well. To help you out, payments can also be paid in four installments if you choose to do so.

Since we started this program almost 15 years ago, 108 members have taken advantage of the benefits and signed on to be Lifetime Benefactors. Join this esteemed group and become one yourself! We have forms available on ALOA.org, and you can also contact membership@aloa.org to receive a form. We're happy to answer any questions you have and help you get started.

I hope everyone continues to have a wonderful holiday season. No matter where you live or how you celebrate, we hope that you're able to spend time with loved ones and enjoy this season. Thank you for making ALOA part of your 2021, and we look forward to seeing you all in 2022!

Mary A. May

Mary A. May
Executive Director
mary@aloa.org



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Noel Flynn Named Keynotes Author of the Year

THE KEYNOTES EDITORIAL BOARD HAS NAMED ALOA SPAI ASSOCIATE Region Director Noel Flynn as the 2021 Keynotes Author of the Year. They chose to honor him for his in-depth series of business articles that help locksmiths grow their businesses and better understand financial terms and practices.

Congratulations to Noel!

IN MEMORIAM



» **Murray J. Bilker, CRL, CFDI**, my dear friend passed away of a spinal injury sustained at work and was laid to rest on September 24, 2021. I have been Murray's friend since 1985 when we both worked at Safemasters in Silver Springs, MD. We had just sold our companies the previous year, and we were

helping them grow in new directions. Let me tell you about this great locksmith who was always there to help a fellow locksmith. Murray worked at Safemasters until his noncompete expired, and then he moved back to Philadelphia and worked on developing software for locksmiths.

SuperKey was born in the early 1990s and is still a viable program today. Murray's brother Warren is working on reactivating the software so this program will go on in our industry. Murray also invented rectifiers, smart packs and boxed transformers. Murray's brother Paul has taken over as CEO and, with the help of their dad, Stan, this company will continue to grow.

Murray opened Lock Systems of Philadelphia a few years later building and developing massive SFIC systems that he marketed to large chain stores nationwide. He was getting ready to launch his locksmith SFIC core site offering next-day service for SFIC core systems at great pricing. At the

time of his tragic death, he was running 18 service trucks throughout the Greater Philadelphia Metro area with an inside support staff of 10.

I could go on and on about this great man, and I'll leave you with this saying that Murray always used: "Just Do It!" In other words, stop whining, and get it done.

— Tom Demont

» **Davis O. Turner** passed away October 11. He had been a member of ALOA since 1971.



» **Charles (Chuck) Edgar Haas, CML**, passed away October 22 at the age of 82 after a brief illness. He had been a member of ALOA since 1978 and was a central figure in the Colorado locksmithing community, passionate about the trade and a driving force for education. Chuck served in various roles in the local

locksmith association and taught countless classes and seminars over the years.

» **Robert Herman Kelting** passed away on July 6 at the age of 85. He had been a member of ALOA since 2007 and a member of SAVTA for three years, from 2012 to 2015. He loved the outdoor spaces found in Summerlin, Nevada. Herman attended school in Montebello and Whittier and went on to receive his Doctorate from University of Wisconsin.

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MASSACHUSETTS

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- **Walter F. Bartsch Jr.**

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ALOA CERTIFICATIONS

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Taylorville, IL

- **Andrew Estes, CRL, CAL, CFL, LSFDI**

Hagatna, Guam

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@aloe.org or via fax to 469-543-5241. For questions, contact Kevin Wesley, membership manager, at Kevin@aloe.org or (214) 819-9733, ext. 219.

**CALENDAR**

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

APRIL 2022

April 4-9

SAFETECH 2022

Griffin Gate Marriott

Lexington, KY

conventions@aloe.org or

(800) 532-2562

JULY 2022

July 24-30

ALOA Convention & Security Expo

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Get Educated at SAFETECH 2022!

The class lineup is here. What will you take?

THE OPENING DAY FOR SAFETECH REGISTRATION is fast approaching. Hopefully you have saved the dates and made your hotel reservations. (Be sure to do so by March 12!)

We have classes for every skill level at SAFETECH 2022. Whether you already do some safe work or are just thinking about dipping your toes into this lucrative part of the industry, we have something for you!

Come learn the basics with classes like Basic Safe Opening and Mechanical Safe Lock 101. Learn how these locks work and start learning how to open safes! For those wanting to move safes, we have the must-take class Safe Moving & Rigging. Gene Gyure will instruct you on what tools and equipment you need as well as best practices to move safes... *safely*.

SAFETECH again has a series on safe deposit locks where you can learn about lock construction, defeat and servicing. This is a great hands-on class to let you brush up on skills.

So many more classes will be offered, so keep your eye out for the full registration brochure in January! To get on the list to receive SAFETECH news, email conventions@aloea.org. ☺

SAFETECH 2022

April 4-9

Griffin Gate Marriott

Lexington, KY

Hotel rate: \$129 plus tax

Room Block Cutoff: March 12



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THE INNOVATIVE LEADER IN THE electrical and mechanical door hardware and security industry for nearly 40 years, Security Lock Distributors recently enhanced its brand. Customers have long referred to the company as SECLOCK, after its web address; now SECLOCK is the official name of the company. The company's mission, referred to as "The Path," represents all the ways it connects to valued customers, getting them to the right solutions efficiently.

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SECLOCK stocks the full range of elec-

trical and mechanical door hardware — featuring over 100 premium brands; with its unique stocking model line, the company stock all finishes, functions, designs, keyways, lengths, voltages and options. That unmatched, in-stock inventory means that its warehouses carry every possible product.

SECLOCK also offers best-in-class customer service. Its team of experienced technical sales representatives (TSRs) offers support at every step of the process. Large or small, electrical or mechanical, no question is too tough or obscure. From finding the right part to locating retrofit items that work perfectly with any hardware, SECLOCK employees know what works for every project.

SECLOCK's simplified distribution means customers can get everything they need, right on time. Together with the company's sophisticated logistics and stream-

lined shipping, that means orders placed on the phone or online can be shipped out the same day. With SECLOCK's blind label drop-ship program, orders can ship with a company's own branding on the shipping label and packing slip. And since SECLOCK is wholesale only, it never competes with its own customers.

In an industry experiencing rapid change, SECLOCK continuously stays ahead of trends in technology and innovation. This commitment is especially clear on SECLOCK.com, its easy-to-use website that makes search, filtering and support incredibly intuitive and accessible. Visitors can also chat with their team of experienced TSRs online the same way they do on the phone.

With all these enhancements, both visual and substantive, SECLOCK has positioned itself for the future and is ready to lead the industry for years to come.

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Investigative Training in 2022

By Brian VanDenburgh

I AM EXCITED FOR IAIL AND THE YEAR AHEAD. FOR 2022, OUR FOCUS WILL be on training. I hope to engage our membership to stay involved, as the pandemic seems to be winding down. We had a very successful conference in Dallas prior to the pandemic's effect on training and travel. Hopefully we will be able to work out plans for another conference in fall of 2022.

Classes at Next Year's Conventions

For now, mark your calendars! Past IAIL President Tom Demont will be conducting a forensic safe class at SAFETECH 2022, with James Ashley assisting. SAFETECH 2022 will be held in Lexington, KY, April 4-9 at the Griffin Gate Marriott. Keep an eye out for registration materials to become available in the next month or so.

Also watch for investigative education tracks at ALOA 2022 in Las Vegas. And if you have ideas for training or suggestions for IAIL, please send them my way!

If you're reading this as a non-member, please consider joining or re-joining IAIL and learning how to apply your locksmithing knowledge and skills to the exciting world of investigations. It's a rewarding field, and there is always something new to learn.

Have a Merry Christmas, and I wish you all a healthy and happy New Year in 2022. ☺



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

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>.

Get Published!

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

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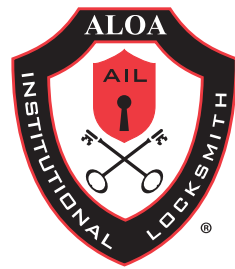
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What's New For 2022

Steve Fryman discusses his new institutional position and the importance of relationships with administration.

GREETINGS SUSPENSE THRILLER FANS! WHAT'S NEXT, AND WHAT'S NEW? For me, it's a new attitude and a new job. Change — whether you love it or hate it — is something we all must deal with. The way you manage it can define you or bind you. It can propel you to the next level... or level you. George Bernard Shaw once said, "Progress is impossible without change, and those who cannot change their minds cannot change anything."

New Attitude

In October 2021, I spent four days presenting to mostly administrators at the SRAPPA 2021 conference in Mobile, AL. My presentation topic was "The Great Divide," which addressed closing the gap between frontline workers and administration. The material came from an article I wrote for *Keynotes* in 2018. I explained to them that in all the classes I teach for ALOA, I ask the students how they refer to the administration. I know when I worked at the University of Florida, it was "the folks up the hill." At Florida State University, it was "the folks across the hall." The reference would usually be prefaced with a statement like, "Oh, you know, that's just like the folks across the hall to do something like that." I think you get the point.

Well, the folks up the hill, across the hall and many more heard my presentation on closing the gap. They learned how a new attitude is needed to retain workers in a shrinking supply of trained trade folks. Society is fractured enough without having a broken system in place where administrators are out of touch with the everyday needs of their frontline workers.

A large part of the presentation discussed giving more autonomy to frontline employees and empowering them to make decisions, opening the bottleneck that slows an already choked institutional system. I referenced Peter Drucker and Edward Deming to drive this point home. These fathers of the management movement always championed the cause of the frontline worker. They believed that if we can improve the workplace, society at large would benefit.

Both Drucker and Deming affected millions of people worldwide. Drucker fled Nazi Germany's fascism, and Deming was responsible for helping Japan get on its feet industrially during and after its U.S. occupation. Both men were titans. Drucker was a consultant to 3/4 of the Fortune 500 corporations in his time. Deming was responsible for the rise of the Japanese auto industry. To this day, Toyota is the No. 1 auto manufacturer in the world due to Deming and the 14 points in his book, *Out of Crisis*, published in 1986 when American automakers were tanking.

A New Job

My workplace is going through reorganization. As I found out at the conference, I'm not the only one experiencing this kind of change. After supervising the key shop at FSU Facilities for nearly 12 years, I was promoted to key compliance manager. I know — it sounds impressive, right? Perhaps I can develop new classes and a certification (with Jim Hancock's blessing, of course). It could be CIKCM certification (that just rolls right off the tongue, doesn't it)?

CIKCM stands for a Certified Institutional Key Compliance Manager.

You're probably wondering, "What does a CIKCM do?"

- Adjust and improves key issuance policy
- Key audits
- Manages key managers campuswide
- Plans, reviews and selects hardware

To help me in my new role, I've been discussing how to manage my openings more efficiently with Jeremy Saline, senior director of business development with ASSA ABLOY Opening Solutions. ASSA ABLOY has a software platform called Openings Studio, which is a full-feature, web-based suite of BIM software tools for creating and visualizing 3D doors, frames and hardware objects, and for modifying their associated parameters

for use in design, construction and facility management. This software will make my job easier by telling our building designers or renovators what we require regarding door and hardware documents. I'll no longer be at the whim of an architect who puts aesthetically pleasing items in our buildings that become maintenance nightmares because we didn't have the proper documentation in place.

Case in point: concealed closers that are a problem to replace and maintain, or external vertical rods that are knocked off by every deliveryman in town — instead of having single-point hardware with a keyed mullion. I apologize for this short rant; I am sure it twists your britches too.

To complement the use of Openings Studio on new construction and renovation projects, ASSA ABLOY also has a team of experts who complete project

punch-outs to provide facility maintenance with as-built data through the use of a QR code/smart tag that will digitize the opening. They can also perform site surveys in existing buildings to bring your openings into the digital platform for easier maintenance and collaboration.

ASSA ABLOY recently acquired SimpleK key management software and is building an integration into Openings Studio. They're also focused on partnering with asset management software providers to help institutions improve the efficiency and effectiveness of managing and maintaining door openings.

This is a small list of my new responsibilities. I will no longer be supervising locksmiths or key shop staff. I will be helping the key shop with its processes while also improving data entry to data collecting systems like SimpleK

and Openings Studio from ASSA ABLOY and AiM from Asset Works.

I don't know what 2022 will bring. All I know is that I am very excited for the new opportunities that are part of this change. My crystal ball is broken, but my spirit is not. The glass is definitely half full. ☺



Steve B. Fryman, CRL, CAI, CISM, has worked in the physical security field for more than 40 years. Now working as the key compliance manager at Florida

State University, he previously served as an institutional locksmith at the University of Florida and in the private sector with his own locksmith business. He developed the first curriculum and testing for the Certified Institutional Shop Manager designation, making him the first recipient of this credential.

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DECODING LOCKSMITH CODE PROGRAMS

Sal Dulcamaro walks you through Codes On Line and other Blackhawk Lock Codes programs.

THIS WILL BE THE FIRST IN A SERIES OF ARTICLES ON LOCKSMITH CODE programs that are available on the market. In the recent past, code programs had to run from your desktop or laptop computer. Codes On Line and many other current-generation code programs can be used on a smartphone, making them extremely versatile.

Codes On Line is from Blackhawk Lock Codes Inc., also known as Blackhawk Products. I spoke with Roger Weitzenkamp at multiple ALOA conventions years ago. Weitzenkamp founded Blackhawk a long time ago and was the designer of its lock code program and a few other interesting programs. Code On Line has always been known as one of the best and most accurate code programs since its inception. After many years maintaining and upgrading his code program, Roger retired and sold his company to Randy and Fawn Curtis, who keep up Codes On Line and the other Blackhawk programs.

Figure 1 shows all the Blackhawk programs at www.lockcodes.com. Unlike the older-style Blackhawk code program (and the other locksmith programs), Codes On Line is a subscription service that is updated throughout the year. It used to be that you'd order a yearly update with all the new code series added since your last yearly update. As it's on your smartphone and updated throughout the year, the program is always accessible and up to date.



www.lockcodes.com

The interactive web site for locksmiths

Subscription: [Codes On Line](#) - [KBX On Line](#) - [FILL On Line](#) - [Pin It Now!](#)
Free: [Combination Counter](#) - [Codes On Line Demo](#) - [SFIC](#) - [Names listing](#)
Contact Us: 970-882-2522 Email lockcodesstaff@gmail.com

Main site for www.lockcodes.com. We also have a mirror site at www.lockcodes2.com.


SUBSCRIPTION		FREE	
C O D E S	Codes On Line An interactive web-based code retrieval program containing a wide range of automotive, shop, and padlock codes. Available by subscription. These codes can be accessed through your web browser or through a smartphone. You will need a user name and password for this section. To obtain them you can subscribe here .	Demo Here's a demo of Codes On Line. Try it out! No password needed.	C O D E S
K B X	Key Blank Cross-References Our database of over 85,000 key blanks (including over 4600 pictures) is available by subscription for only \$20 per year. A second version of KBX lets you add your own label to any group of blanks. Cost is \$30 per year. To subscribe to either version, sign up here .	Pin It Now! Just enter the change, master, and control keys (as applicable), and this will give you the pin chart. Covered: SFIC, Corbin/Russwin, Sargent, and other pinning systems. This pinning calculator also handles cross-keying and cylinders which require more than one control key. It's free to subscribers to Codes, KBX, or FILL On Line.	P I N
F I L L	FILL On Line Automotive progression made simple. This is what you use when you know some of the cuts for a key but need to find the rest. Tell it the cuts you know and it will give you a progression chart that you can use to determine the correct key. Available for both your browser and your web-enabled cell phone . Subscribe here .	Lock Name Listing A list of lock names that you can search to find what keys might be used with them. Please contribute more entries to this listing.	N A M E S
Frequently-Asked Questions Comments from others		Combination Counter How many combinations are available for a given kind of cylinder? Use this to find out!	C C

Enma
We do NOT provide VIN-to-keycode information.
schmaster

Figure 1. Blackhawk has many programs available at www.lockcodes.com.

On the home page, you can access the available programs: Codes On Line (\$59 annual subscription); the key blank cross reference program KBX On Line (\$20 annual subscription for the version that can't print labels and \$30 for the version that can); and FILL On Line (\$25 annual subscription). If you subscribe to any of those three programs, there are three free ones you can also access: Pin It Now!, Lock Name Listing and Combination Counter. Whether on a smartphone or a desktop or laptop computer, you'll need either Wi-Fi or a data plan to use these programs.

Codes On Line has a backup website, www.lockcodes2.com (Figure 2), if there are issues getting on the main website. They are interchangeable and produce the same information. Once you are on the home page of either website, click on the hyper-link of Codes On Line to get a password requester (Figure 3) where you will input your user name and password to access the program. Depending on the settings of your smartphone or computer, you may be able to save your password without reentering it each time.



www.lockcodes2.com

The interactive web site for locksmiths

Subscription: [Codes On Line](#) - [KBX On Line](#) - [FILL On Line](#) - [Pin It Now!](#)
Free: [Combination Counter](#) - [Codes On Line Demo](#) - [SFIC](#) - [Names listing](#)
Mirror site for www.lockcodes.com. Use this site any time that the main site might be down.

SUBSCRIPTION		FREE	
C O D E S	Codes On Line An interactive web-based code retrieval program containing a wide range of automotive, shop, and padlock codes. Available by subscription. These codes can be accessed through your web browser or through a smartphone. You will need a user name and password for this section. To obtain them you can subscribe here .	Demo Here's a demo of Codes On Line. Try it out! No password needed.	C O D E S
K B X	Key Blank Cross-References Our database of over 85,000 key blanks (including over 4600 pictures) is available by subscription for only \$20 per year. A second version of KBX lets you add your own label to any group of blanks. Cost is \$30 per year. To subscribe to either version, sign up here .	Pin It Now! Just enter the change, master, and control keys (as applicable), and this will give you the pin chart. Covered: SFIC, Corbin/Russwin, Sargent, and other pinning systems. This pinning calculator also handles cross-keying and cylinders which require more than one control key. It's free to subscribers to Codes, KBX, or FILL On Line.	P I N
F I L L	FILL On Line Automotive progression made simple. This is what you use when you know some of the cuts for a key but need to find the rest. Tell it the cuts you know and it will give you a progression chart that you can use to determine the correct key. Available for both your browser and your web-enabled cell phone . Subscribe here .	Lock Name Listing A list of lock names that you can search to find what keys might be used with them. Please contribute more entries to this listing.	N A M E S
Frequently-Asked Questions Comments from others		Combination Counter How many combinations are available for a given kind of cylinder? Use this to find out!	C C

Enma
We do NOT provide VIN-to-keycode information.
schmaster

Figure 2. Codes On Line has a backup website, www.lockcodes2.com.

Free: [Combination Counter](#) - [Codes On Line Demo](#) - [SFIC](#) - [Names listing](#)

site any time that the main site might be down.

Log in to
www.lockcodes2.com
Your password will be sent unencrypted.

Cancel Log In

Frequently-Asked Questions Combination Counter C

Figure 3. This screen is where you will input your user name and password to access the program.

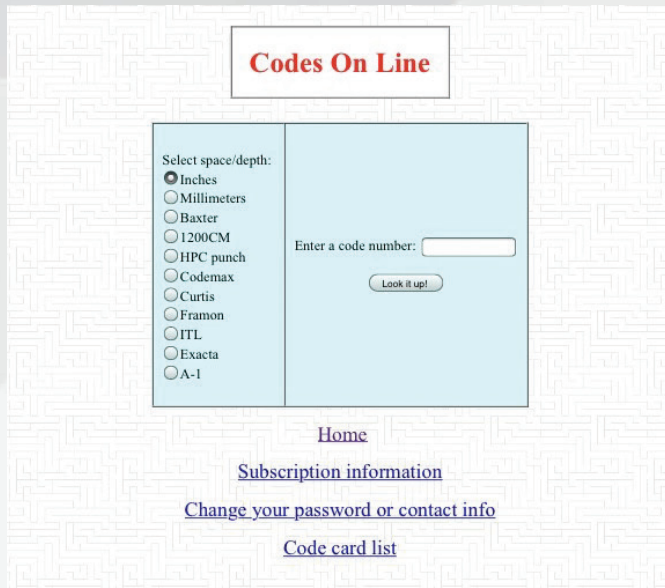


Figure 4. On the opening screen, enter the code number on the right side.



Figure 5. The test subject is a Master #3 padlock with the slightly faded code 0536.

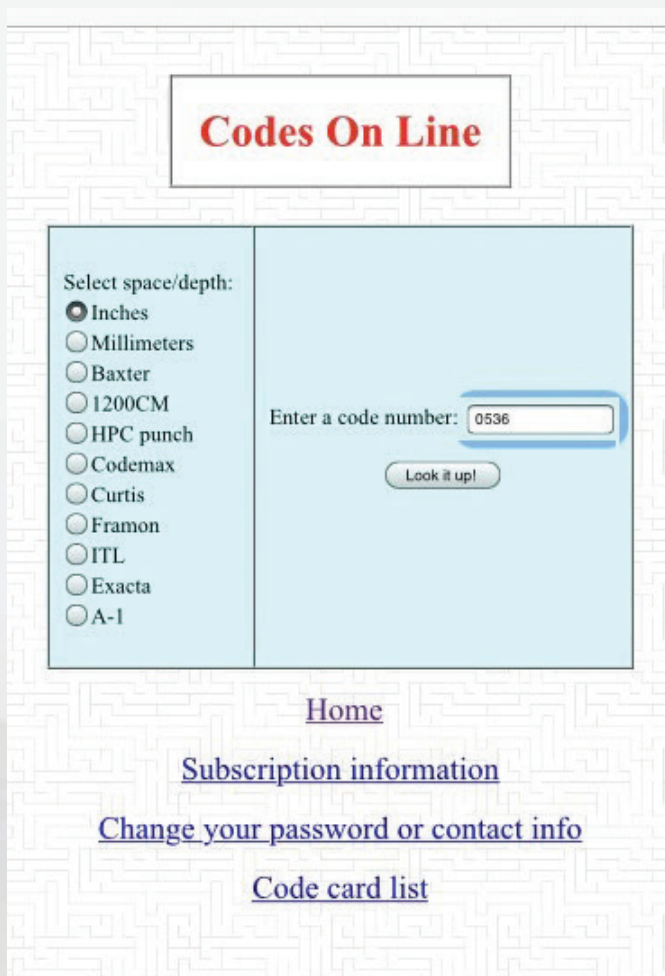


Figure 6. The author entered the code of 0536.



Figure 7. This is the screen you get after selecting "Look it up!"

Getting Started

On the opening screen (*Figure 4*), enter the code number on the right side. The left side lets you choose how you want to obtain the space and depth information for the key you will soon create or originate: inches or millimeters, followed by a variety of brands of code machines to create your key.

The brand and device identifiers allow you to make keys by code to specific code equipment you may already have. After the choices of inches and millimeters, you get the following options:

- Baxter
- 1200CM
- HPC Punch
- Codemax
- Curtis
- Framon
- ITL
- Exacta
- A-1

For my test subject, I'm using a Master #3 padlock with the slightly faded code 0536 (*Figure 5*). On more recent Master padlocks, Master put the code number in ink at the bottom of the padlock just below the keyhole. At "Enter a code number," I entered 0536 (*Figure 6*). I will show the selection of each choice of "Select space/depth." I'm starting at the top with "inches." Below where I entered the code number, it says "Look it up!" After I choose to look it up, I get the next screen (*Figure 7*).

When I select a random code number, the program has no idea what kind of lock with which I am dealing. When selecting a code that has all numeric digits, you will typically find that the possible code series choices are numerous. As you can see near the top of the screen, it has found 132 series that could possibly match. On the left side are a variety of code categories, while on the right there are brand-specific code series.

Choosing a Category

It would be an absolute nightmare to go through all 132 code series, but we can greatly reduce the number of selections by choosing a code category (*Figure 8*). There are the following categories: Automotive, Mailbox, Combination, Flat steel, Locker, Motorcycle, Office/other and Padlock. In parentheses is the number of code series. We know that we have a padlock, so we can reduce the number to search to eight series. The key blank type is in the second column. Our category would be "Single," but there are 23 series when searching that way, so using the "Padlock" category makes much more sense.

On the next screen (*Figure 9*), the "Padlock" category on the left side is now in bold, and all eight of our padlock code series are listed on the right, with "Master padlock" as the fourth series from the top. We know that we have a #3 Master padlock, but it's not only identified as a series for Master #3 padlocks. We can presume that the code series is also used with other versions of Master padlocks.

Application:	Blank type:
All	All
Automotive (98)	Single (23)
Mailbox (3)	Double (75)
Combination (1)	Tubular (2)
Flat steel (1)	Dimple (3)
Locker (1)	2-track (19)
Motorcycle (1)	4-track (9)
Office/other (24)	
Padlock (8)	

Figure 8. Reduce the number of selections by choosing a code category.

Application:	Blank type:	Select a series:
All	All	
Automotive (98)	Single (23)	
Mailbox (3)	Double (75)	
Combination (1)	Tubular (2)	
Flat steel (1)	Dimple (3)	
Locker (1)	2-track (19)	
Motorcycle (1)	4-track (9)	
Office/other (24)		
Padlock (8)		

American 5-pin padlock
2nd American 5-pin padlock
American combination padlock
Master padlock
NAVY padlock (Yale 4 pin)
NAVY padlock (Yale 5 pin)
Padlocks and cam locks (Lockwood 4 pin)
Yale small pin 5-pin padlocks

Figure 9. The padlock code series are listed on the right.

Code 0536: 132 series found.
Master padlock

Cuts are: **3 4 5 3**

Blanks:

IK	Master
M-1	Curtis
1092	Ilco
MS1	Silca

Cuts are listed bow to tip.

For this key only:

Spacing from shoulder	Depth of cut
.187	.225
.312	.210
.437	.194
.562	.225

Root: .035 Angle: 90

Different S/D?

Another code? Look it up!

Figure 10. The key bitting is 3453.

Code 0536: 132 series found.
Master padlock

Cuts are: **3 4 5 3**

Blanks:

IK	Master
M-1	Curtis
1092	Ilco
MS1	Silca

Cuts are listed bow to tip.

For this key only:

Spacing from shoulder	Depth of cut
4.75	5.70
7.90	5.35
11.10	4.95
14.25	5.70

Root: 0.90 Angle: 90

Different S/D?

Another code? Look it up!

Figure 11. This is the screen if you select “millimeters.”

Key Bittings

After we select “Master padlocks,” the next screen (*Figure 10*) shows the key bitting (cuts are:) of 3453. The “space/depth” selection we made was “inches,” so we get the physical measurements for spaces and depths of the four key cuts to operate this padlock. I’ll explain a few other details of this screen and then display what we’d see if we had made a different “space/depth” selection. For those, I won’t go through each step, as those steps would be otherwise identical except for the final screen.

If you look closer at the details of the key cuts, you will see the actual measurements. Most keys will identify cut spacing from the shoulder of the key, but typically tip-stopped keys

will show spacing measurements from the tip. The measurements are in thousandths of inches. You also see depth of cut measurements in inches. There are also cut specifications that identify the width of each cut at its root and the recommended angle of the cuts. Those specifications primarily apply to the shape of the cutter that you use to originate your keys. When we get to specific key-cutting equipment, the specific cutter of that brand will be identified.

Below the key cuts on the left side are the key blank numbers identified by brands. These are usually referenced to somewhat more common brands of key blanks. You may notice that only four brands are listed. Obviously, there are many more than

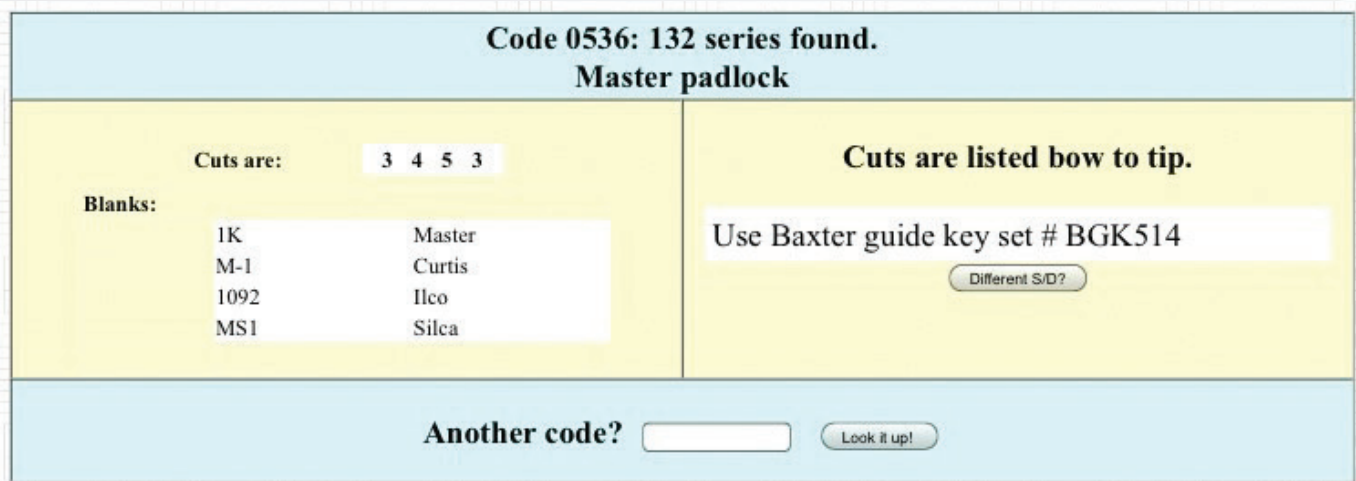


Figure 12. The Baxter screen lists a specific set of Baxter brand guide keys.

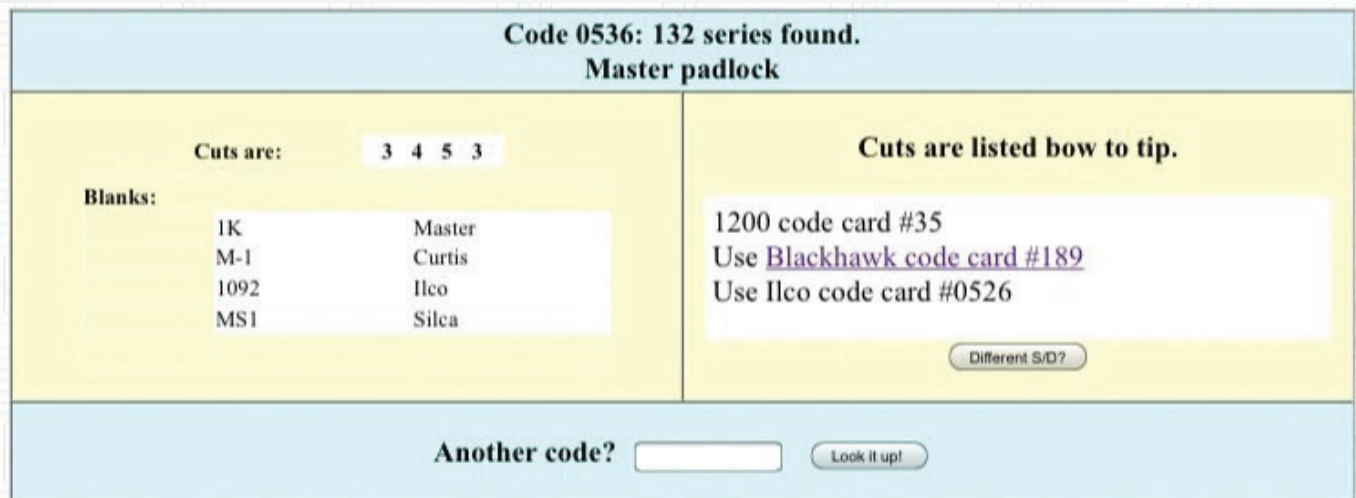


Figure 13. The 1200CM screen has some additional features that are unavailable with the other “space/depth” selections.

four brands of key blanks. If you want to track other key blank brands not identified, you can cross-reference many more in the KBX program (if you subscribe to it).

If we had selected “millimeters,” we’d see this screen instead (Figure 11). It’s identical to the “inches” screen, except the dimensions are listed in millimeters. The cutter and key blank information is the same also.

The Baxter Screen

The Baxter screen (Figure 12) is a bit different. While the key biting and key blank information is the same, dimensional measurements are not listed. Instead, it lists a specific set of Baxter brand guide keys. Guide keys are depth and space guide keys that allow you to make your keys by code with a key-duplicating machine instead of a code machine. This specification probably makes more sense to old-timer locksmiths than younger locksmiths. If you are fairly new to the trade, you may never have seen or heard of depth and space keys. I’d guess that very few locksmiths would use this category for “space/depth.”

The 1200CM Screen

The 1200CM screen (Figure 13) has some additional features that are unavailable with the other “space/depth” selections. As with the Baxter screen, this screen does not list the actual space and depth dimensions. On the right side, it lists a variety of numbered code cards. As this is the 1200CM category, the card listed on the top is the 1200 code card #35, which is made and designated by HPC to originate keys for what had been considered Master large-pin padlock keys. The key blanks indicated on the left side show the Master Lock original key blank of 1K, and below that Curtis M-1, Ilco 1092 and Silca MS1. That card was used for making keys for the vast majority of Master padlocks. While the pin size and spacing and depth was standard for most of those padlocks, there were a variety of different key blanks used for large or standard pin Master padlocks. Many of the padlocks were four-pin pin tumbler padlocks, but some were five-pin pin tumbler padlocks.

Beside the HPC #35 code card is Blackhawk code card #189 and Ilco code card #0526. All three cards are effectively interchangeable. The HPC card designation coincides with the

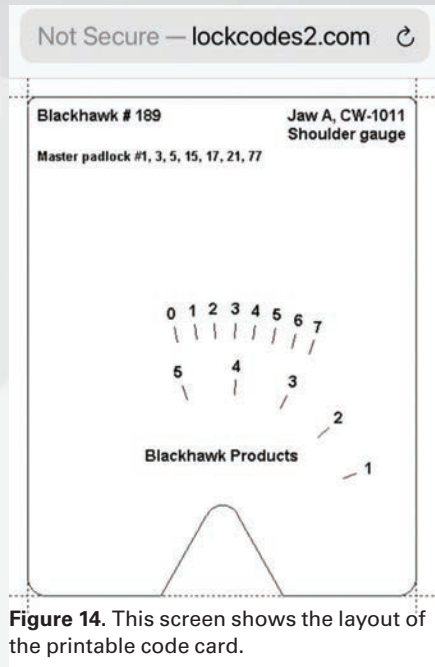


Figure 14. This screen shows the layout of the printable code card.

numbering system created by HPC when the company first marketed the HPC 1200CM code machine. Ilco eventually built and sold a nearly identical code machine after the original 1200CM code machine patent had expired. The company created its own card numbering system that applies to the different brands of locks for which the code machine could create keys.

Blackhawk had its own card numbering system to accommodate the spacing and depth for keys of different brands. The Blackhawk code card #189 is in the middle line with a hyperlink to a code card that you could print for yourself if you didn't already have the specific code card for a particular code series. The next screen shows the layout of the code card (Figure 14).

The code card number (#189) is at the top left. Just below that is a list of versions of Master padlocks that can use the card for key origination. It lists the following padlocks: #1, 3, 5, 15, 17, 21 and 77. The card might also apply to other padlock models. There are other specifications that would apply when originating a key

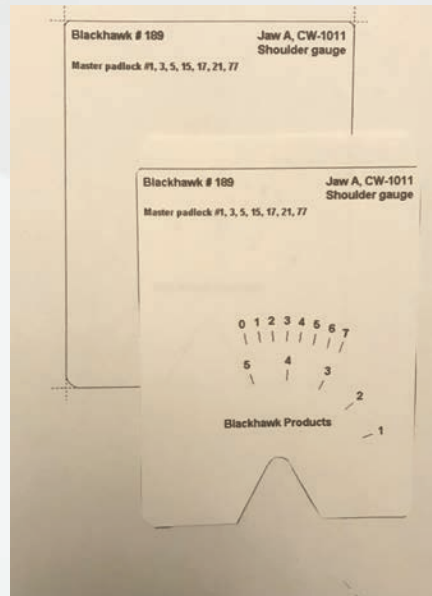


Figure 15. The cut-out card printed out too big to fit in the code card slot.

beside just the code card: different jaw settings, cutter wheels and several ways to gauge a key when inserted in the jaw. Those settings are listed at the top right of the code card: Jaw A, CW-1011 (for the cutter), and it also indicates that the key blank is shoulder gauged in the jaw.

Toward the middle of the card are the depth indicator marks numbered from 0 to 7. Just below those are the spacing indicator marks, from space #1 to space #5. The four-pin Master lock for which I am making the key would not use the fifth space since there are only four spaces designated. Notice the depth markings are numbered from left to right. The 0 depth is the most shallow depth, and the 7 depth is the deepest. The spacing indicator marks are listed right to left. That is because the spaces are measured from the shoulder of the key. If the spaces were measured from the tip of the key, the spacing marks would be numbered from left to right. The point of having the numbers listed in a specific order is to make sure the code card agrees with how the key biting is listed when you look up a code. If you mistakenly cut the key with

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Universal keys can be programmed to be replacements for an expansive and expanding line of vehicle brands, including, at this time, most U.S. and Asian vehicles with smart key remotes. Autel is about to launch its universal key solution, the MaxiIM KM100, which includes a streamlined mobile phone-sized immobilizer and key programming tablet with a built-in programming slot and two universal keys.

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- 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

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the biting in the reverse order, the cuts will be backward, and the key won't work.

Printing Troubleshooting

I mentioned earlier that the Blackhawk code card hyperlink allows me to display the card on my screen, and you can print the Blackhawk version of a code card. I did just that, and there is no obvious issue looking at the sheet. I had two printouts (*Figure 15*): the card still on the page and an identical card that I cut out. Although not obvious, it printed out too big to fit in the code card slot.

I contacted Randy Curtis at Blackhawk and told him my dilemma. I found out that printing from your smartphone doesn't always provide the correct size. My phone is an iPhone 7, and I don't know that all types of smartphones would have issues like mine. I operated Codes On Line from my laptop and printed the card from there. The printout looked similar, but the card printed in the middle of the page instead of at the top like when I printed from my iPhone.

The differences aren't particularly obvious, but when I stacked the card printed from my laptop on top of the card printed from my iPhone (*Figure 16*), the difference is apparent. The card I printed from my laptop computer was the correct size and fit into the slot for the code card in the HPC 1200CM code machine.

HPC Punch

As with the 1200CM selection, the HPC punch screen does not display actual space and depth dimensions (*Figure 17*). It also uses code cards, but there are significantly fewer HPC punch code machines in circulation than HPC 1200CM motorized code key machines. Unlike with 1200CM, Codes On

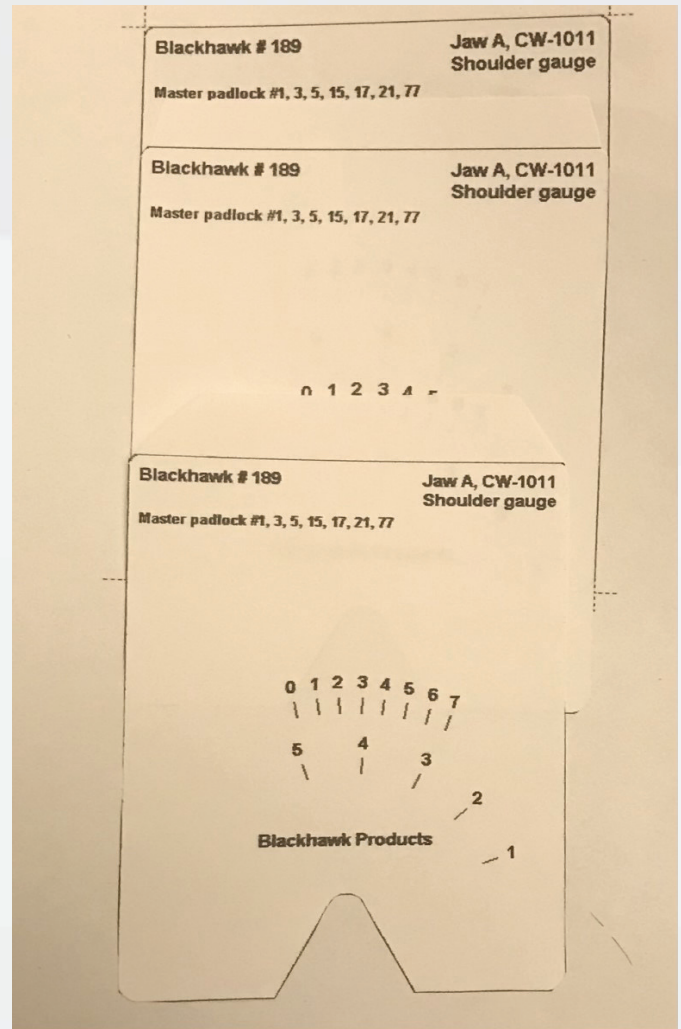


Figure 16. The size difference between the smartphone-printed versions (bottom) and the card printed from a laptop (top) is apparent.

Code 0536: 132 series found. Master padlock	
Cuts are: 3 4 5 3	Cuts are listed bow to tip.
Blanks: 1K Master M-1 Curtis 1092 Ico MS1 Silca	Use HPC punch card #P35 <input data-bbox="1066 1623 1198 1650" type="button" value="Different S/D?"/>
Another code? <input data-bbox="762 1780 906 1808" type="text"/> <input data-bbox="938 1780 1050 1808" type="button" value="Look it up!"/>	

Figure 17. The HPC punch screen does not display actual space and depth dimensions.

Code 0536: 132 series found. Master padlock									
<p>Cuts are: 3 4 5 3</p> <p>Blanks:</p> <table border="1"> <tr><td>1K</td><td>Master</td></tr> <tr><td>M-1</td><td>Curtis</td></tr> <tr><td>1092</td><td>Ilco</td></tr> <tr><td>MS1</td><td>Silca</td></tr> </table>	1K	Master	M-1	Curtis	1092	Ilco	MS1	Silca	<p>Cuts are listed bow to tip.</p> <p>Use Codemax DSD Number 50 Cutter: 1011 Jaw: A Gauge: Shoulder</p> <p>Different S/D?</p>
1K	Master								
M-1	Curtis								
1092	Ilco								
MS1	Silca								

Figure 18. The CodeMax is a computerized code machine.

Code 0536: 132 series found. Master padlock									
<p>Cuts are: 3 4 5 3</p> <p>Blanks:</p> <table border="1"> <tr><td>1K</td><td>Master</td></tr> <tr><td>M-1</td><td>Curtis</td></tr> <tr><td>1092</td><td>Ilco</td></tr> <tr><td>MS1</td><td>Silca</td></tr> </table>	1K	Master	M-1	Curtis	1092	Ilco	MS1	Silca	<p>Cuts are listed bow to tip.</p> <p>Curtis cam: M1 Carriage: M1 Cutter: W45 Decoder: M1</p> <p>Different S/D?</p>
1K	Master								
M-1	Curtis								
1092	Ilco								
MS1	Silca								

Figure 19. The Curtis Clipper handheld key punch that is used primarily for automotive keys and a few padlock or auxiliary keys.

Code 0536: 132 series found. Master padlock																					
<p>Cuts are: 3 4 5 3</p> <p>Blanks:</p> <table border="1"> <tr><td>1K</td><td>Master</td></tr> <tr><td>M-1</td><td>Curtis</td></tr> <tr><td>1092</td><td>Ilco</td></tr> <tr><td>MS1</td><td>Silca</td></tr> </table>	1K	Master	M-1	Curtis	1092	Ilco	MS1	Silca	<p>Cuts are listed bow to tip.</p> <p>For this key only:</p> <table border="1"> <thead> <tr> <th>Framon block 1</th> <th>Depth of cut</th> </tr> </thead> <tbody> <tr> <td>Gauge: Shoulder</td> <td></td> </tr> <tr> <td>.187 + .125</td> <td>.225</td> </tr> <tr> <td>.312</td> <td>.210</td> </tr> <tr> <td>.437</td> <td>.194</td> </tr> <tr> <td>.562</td> <td>.225</td> </tr> </tbody> </table> <p>Cutter: FC9045/CC-1</p> <p>Different S/D?</p>	Framon block 1	Depth of cut	Gauge: Shoulder		.187 + .125	.225	.312	.210	.437	.194	.562	.225
1K	Master																				
M-1	Curtis																				
1092	Ilco																				
MS1	Silca																				
Framon block 1	Depth of cut																				
Gauge: Shoulder																					
.187 + .125	.225																				
.312	.210																				
.437	.194																				
.562	.225																				
<p>Another code? <input type="text"/> <input type="button" value="Look it up!"/></p>																					

Figure 20. The Framon info provides a micrometer setting for the first space and then lists the cut-to-cut space that coincides with various spacing blocks.

**Code 0536: 132 series found.
Master padlock**

<p>Cuts are: 3 4 5 3</p> <p>Blanks:</p> <table style="width: 100%; border: none;"> <tr> <td style="border: 1px solid black; padding: 2px;">1K</td> <td style="border: 1px solid black; padding: 2px;">Master</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">M-1</td> <td style="border: 1px solid black; padding: 2px;">Curtis</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">1092</td> <td style="border: 1px solid black; padding: 2px;">Iico</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">MS1</td> <td style="border: 1px solid black; padding: 2px;">Silca</td> </tr> </table>	1K	Master	M-1	Curtis	1092	Iico	MS1	Silca	<p>Cuts are listed bow to tip.</p> <p>Use ITL space/depth number 287 Use insert #2 with a direct download. Want to download this directly to your ITL? Use Hawkeye.</p> <p style="text-align: right;"><input style="border: 1px solid black; border-radius: 5px;" type="button" value="Different S/D?"/></p>
1K	Master								
M-1	Curtis								
1092	Iico								
MS1	Silca								

Another code?

Figure 21. ITL is also a computerized code machine.

Line does not print out code cards for the HPC punch but does list the correct code card that HPC makes to originate a key. You can see that it lists the HPC punch card #P35 to make the key.

CodeMax

The CodeMax (Figure 18) is a computerized code machine. The specs for making the Master padlock key are listed on the right.

Curtis Clipper

The next space/depth category (Figure 19) applies to the Curtis Clipper hand-held key punch that is used primarily for automotive keys and a few padlock or auxiliary keys. There will be many codes with no information under Curtis.

The cams have the depths of each cut position, and it's set for the number of spaces in a key bitting. Each carriage is designed for a specific keyway or group of keyways to hold the key blank with notches to set the correct cut spacing. Where it mentions the cutter, it actually identifies the specific version of Curtis Clipper. There are versions with different root cut widths and angles of cut. The decoder is just the specific key gauge made by Curtis.

Just above these designations, you can see "Cuts are listed bow to tip." This is important because — unlike the 1200CM motorized code machine, but like the HPC punch — some keys are loaded from the left side and some from the right. This is somewhat unique to key punch code machines because the keyway profile affects the direction from which you need to punch the key cuts to avoid deforming the key. Motorized machines cut fast and very sharp and normally don't cause deformities that render keys unusable.

Framon

Framon (Figure 20) makes a heavy-duty motorized key machine that has micrometer settings. The Framon info has actual inch dimensions for the cut depths and dimensions for spacing. It gives a micrometer setting for the first space and then lists the cut-to-cut space that coincides with various spacing blocks. The Framon cutter is also listed for originating the key.

ITL

ITL is also a computerized code machine (Figure 21). The ITL settings are listed

that will allow you to originate the Master padlock key.

Exacta

Exacta (Figure 22) is a desktop punch machine like the HPC punch, but much smaller. It's not designed to be hand held like the Curtis Clipper. However, it uses similar accessories.

The Exacta knob sets the depths of the cut. The plate controls the spacing of the cuts, and the insert is somewhat like the carriage used in a Curtis clipper. The carriage is machined to match the keyway of the key blank so that it's held firmly in the jaws of the punch. Unlike the Curtis Clipper, the punch is removable and can be changed for different cutter profiles. As with other punch-type code machines, keys can be inserted into the jaw from the left or right side. The direction that you insert the blank will determine whether the cuts are listed bow to tip or tip to bow. Only the HPC punch can be used with an extremely wide variety of keys and brands of locks. The other punches that need specific attachments for spacing, depth and holding specific key blank keyways are much more limited.

Code 0536: 132 series found. Master padlock									
<p>Cuts are: 3 4 5 3</p> <p>Blanks:</p> <table border="1"> <tr><td>1K</td><td>Master</td></tr> <tr><td>M-1</td><td>Curtis</td></tr> <tr><td>1092</td><td>Iico</td></tr> <tr><td>MS1</td><td>Silca</td></tr> </table>	1K	Master	M-1	Curtis	1092	Iico	MS1	Silca	<p>Cuts are listed bow to tip.</p> <div> <p>Exacta knob: Z</p> <p>Plate: 267</p> <p>Insert: 50</p> <p>Punch: 1</p> </div> <p>Different S/D?</p>
1K	Master								
M-1	Curtis								
1092	Iico								
MS1	Silca								
<p>Another code? <input type="text"/> Look it up!</p>									

[Home](#)

[First code page](#)

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Figure 22. Exacta is a desktop punch machine like the HPC punch, but much smaller.

Code 0536: 132 series found. Master padlock									
<p>Cuts are: 3 4 5 3</p> <p>Blanks:</p> <table border="1"> <tr><td>1K</td><td>Master</td></tr> <tr><td>M-1</td><td>Curtis</td></tr> <tr><td>1092</td><td>Iico</td></tr> <tr><td>MS1</td><td>Silca</td></tr> </table>	1K	Master	M-1	Curtis	1092	Iico	MS1	Silca	<p>Cuts are listed bow to tip.</p> <div> <p>A-1 kit: PAK-MP1</p> <p>Punch/die: PAK-90 or 90-T with PK2-007</p> <p>Vise: MP1</p> </div> <p>Different S/D?</p>
1K	Master								
M-1	Curtis								
1092	Iico								
MS1	Silca								
<p>Another code? <input type="text"/> Look it up!</p>									

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Figure 23. A-1 is another category that applies to a punch-type code machine.

A-1

A-1 is another category that applies to a punch-type code machine (Figure 23). Like the Curtis Clipper, it's also a hand-held key punch, called the PAK-A-PUNCH. A-1 went out of business a few years ago, so I'm not sure what parts are still available. There were numerous accessories available, and it could make a much wider variety of key types than the Curtis Clipper and the Exacta punch — if you had the required accessories. When A-1 was still in business, you could get full kits with everything you needed to make certain keys and also

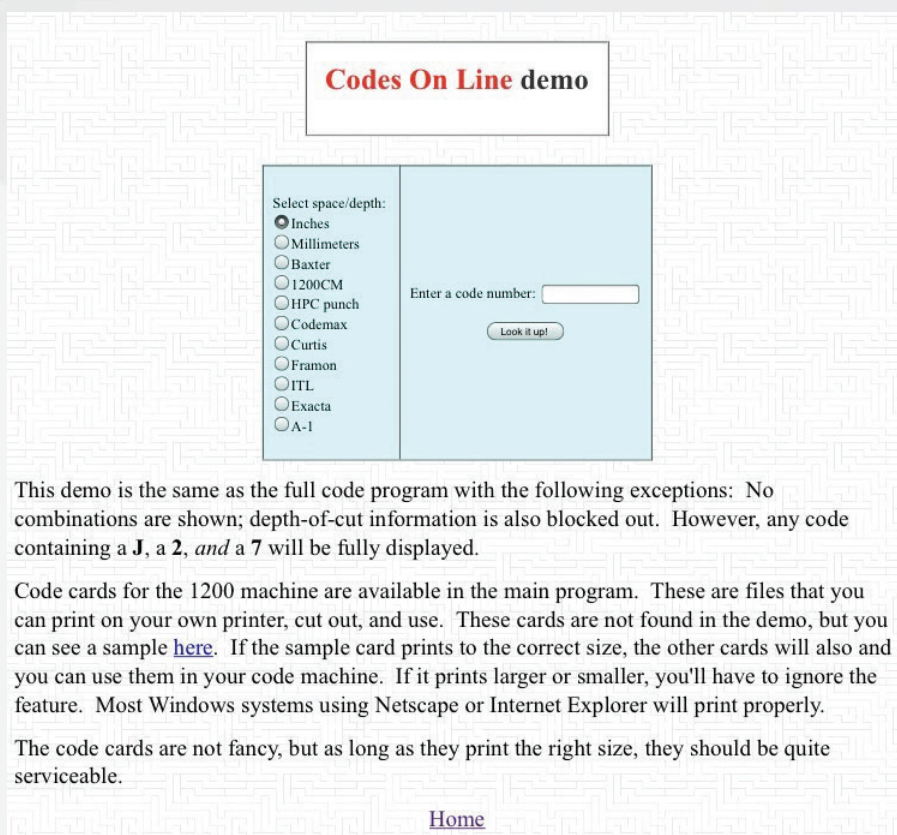
separate vises, punches and other accessories.

As with the punches mentioned earlier, key blanks are inserted from either side depending on the keyway profile. Listing cuts bow to tip or tip to bow will depend on the direction the key blank is inserted.

Ultimately, I originated my key using my HPC 1200CM code machine with the key cuts 3453 on an original Master 1K key blank (Figure 24). I also could have used my HPC punch or Framon code machine. I have versions of Curtis clipper, PAK-A-PUNCH and Exacta punch but lack accessories for Master keys.



Figure 24. The author originated the key using a HPC 1200CM code machine with the key cuts 3453 on an original Master 1K key blank.



This demo is the same as the full code program with the following exceptions: No combinations are shown; depth-of-cut information is also blocked out. However, any code containing a **J**, a **2**, and a **7** will be fully displayed.

Code cards for the 1200 machine are available in the main program. These are files that you can print on your own printer, cut out, and use. These cards are not found in the demo, but you can see a sample [here](#). If the sample card prints to the correct size, the other cards will also and you can use them in your code machine. If it prints larger or smaller, you'll have to ignore the feature. Most Windows systems using Netscape or Internet Explorer will print properly.

The code cards are not fancy, but as long as they print the right size, they should be quite serviceable.

Figure 25. The bottom of the demo screen explains its limits.



Figure 26 [English](#) | [français](#) | [Deutsch](#) | [español](#)

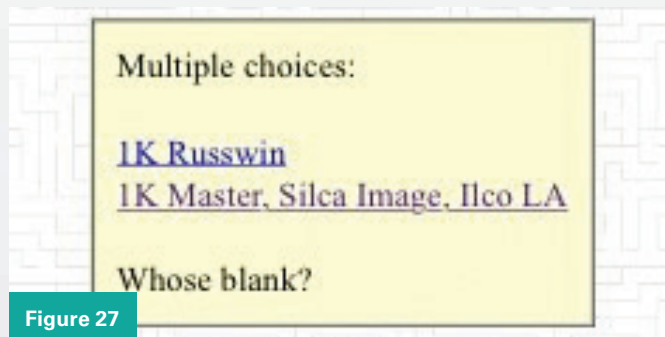


Figure 27

Figures 26 and 27. The author entered the Master brand “original” key number 1K (Figure 26), and there was a choice between Russwin and Master (Figure 27).

The Demo

One of the links on the home page is the Codes On Line Demo. The bottom of the demo screen (Figure 25) explains its limits. You can access the demo for free to get a general feel how the code program works, with the obvious limitations.

Testing KBX

I tested the KBX program using the Master brand key number for cross-referencing to other brands’ key blank numbers. I entered the Master brand “original” key number 1K (Figure 26),

and there was a choice between Russwin and Master (Figure 27) that both had key blank numbers with that approximate key blank number. I obviously knew I had a Master brand key blank and selected it.

The results showed a massive number of brands’ key blank numbers (Figure 28). About 20 brands are shown with more than 50 key numbers (some with different numbers under the same brand). I have never seen most of those brands before. If you want to know an obscure key blank number, I’d guess that KBX would find it for you.

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Found: 1K

5 pin
first keyway
1092NTG Ilco
4 pin
first keyway

92 Dominion 92 Taylor 92 HD 69 Axxess
1K Master 1K Silca Image 1K Ilco LA
M-1 Curtis M1 ESP M1 Ilco M1 Jet
M1 Cole Nat'l M1 Alba M1 Errebi M1+ Jet Ditto
M1 Silca Pronto M1 Hillman M1 Kustom
092 Osco 070 HPC 730 Niessen A44 Atlas
C26 Edmonds L92 Super 321 Börkey 1KN Taylor
185 Stewart MR1 RR MA1 Star MS4 Lotus
MS1 Silca MS2 Silca MS2 Lotus EZ4 Ilco
4453 Hazelton NB-M1 Ilco 1092 Ilco 1092 Orion
1092 HD 155S Keil MAS1 CEA MAS1 Kis
MAS-1 JMA M1-TG Jet M1-PC Ilco
2737G Graham DND-M1 Ilco MAS-10 JMA
MST10 Orion 1092TG Ilco MAS-10C JMA
MAS-10S JMA MAS-10E JMA
1092TG-ILCO Ilco
second keyway
M1-IMP Jet



1092

Figure 28. The results showed a massive number of brands' key blank numbers.

Select the manufacturer:

Acura	Dodge	Italian scooters	Mini	Scion
Alfa Romeo	Fiat and others	Jaguar	Mitsubishi	Sterling
AMC	Ford	Jeep	Navistar/Int'l	Studebaker
Audi	Freightliner	Kawasaki	Nissan	Subaru
Bentley	Geo	Kenworth	Oldsmobile	Suzuki
Blue Diamond	GMC	Kia	Peterbilt	Toyota
BMW	Harley-Davidson	Lada	Plymouth	Volkswagen
Buick	Hino	Land Rover	Pontiac	Volvo
Cadillac	Honda	Lexus	Porsche	Yamaha
Chevrolet	Hummer	Lincoln	Ram	
Chrysler	Hyundai	Mazda	Rolls-Royce	
Daewoo	Infiniti	Mercedes	Saab	
Daihatsu	Isuzu	Mercury	Saturn	

Figure 29. FILL On Line is the third subscription-based program from Blackhawk.

Chevrolet

Two-track
2010+ 8-cut (HU100P) Z1-6000
2014+ 10-cut (HU100P) V1-6000

Most models with double-sided key	Exceptions
2004-16 (B106) G0-3631 2000-14 (B89) S000A-S711K 1994-99 (B89) AA00-7T51	Aveo 2004-10 (DWO4RAP) Cavalier ignition 1991-94 (P1101) Colorado 2004-12 (B110) Epica 2004-07 V1-1200 Epica 2008-10 V2001-3200 Equinox 2005-06 (B106) O5000-6999 Express 2008-14 (B106) S000A-S711K Malibu 2004-05 (B106) O5000-6999 Metro 1998-2001 Prizm 1998-2002 (X217/TR47) Spark 2013-15 Tracker 1998-2004 Tiltmaster W4 1988-2011 (X154)

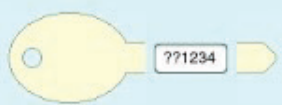
Single-sided
A keyway
B keyway
C keyway
D keyway
E keyway
H keyway
J keyway
K keyway
VATS ignition
1935-1966

Figure 30. The Chevrolet screen provides selections determined by style of lock, model years, Chevrolet models and various key blanks used for Chevrolet vehicles.

FILL On Line at www.lockcodes.com

General Motors A keyway Spaces: 6 Shallow cut: 1 Deep cut: 5 MACS: 2 2070 combinations	1 to 5 represent known depths ? represents an unknown depth X represents a "don't care" position A represents 1½ (1 or 2) B represents 3½ (3 or 4) T represents 2½ (2 or 3) F represents 4½ (4 or 5)
---	--

Enter 6 characters below:



Make chart!

[Home](#) [FILL home](#)

Figure 31. The picture of the key toward the bottom is for inputting known and unknown tumbler values.

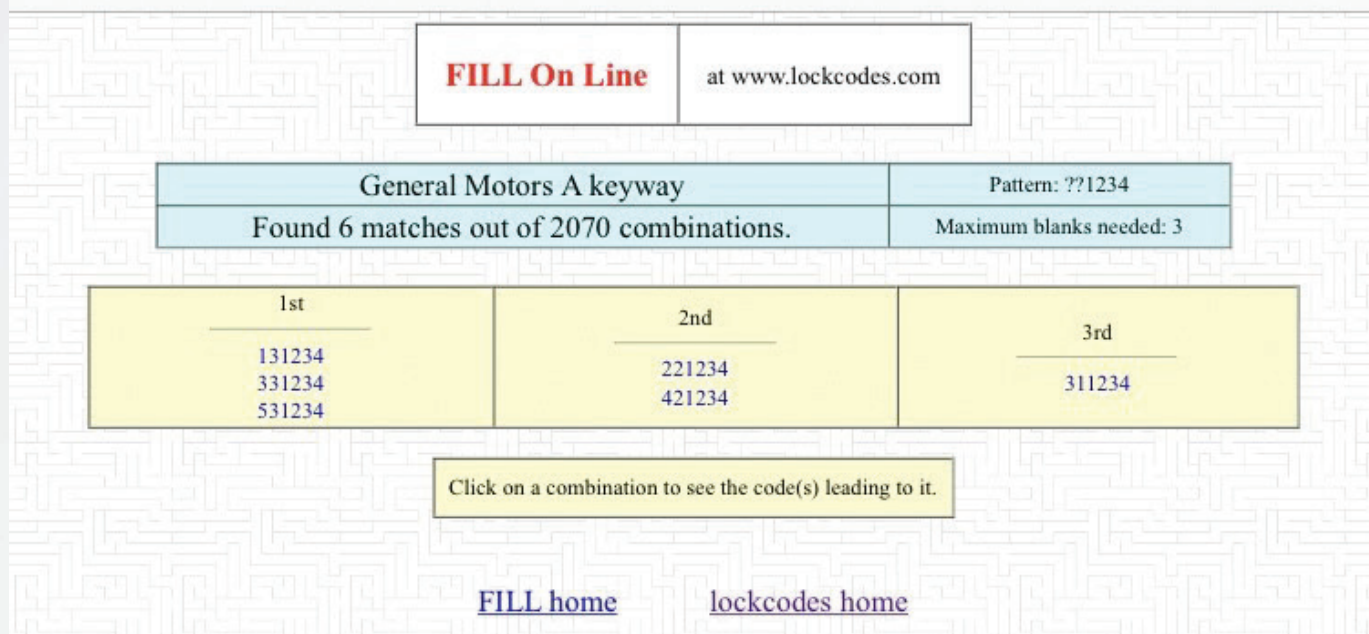


Figure 32. FILL On Line provides a custom progression chart for specific vehicles.

FILL On Line

FILL On Line is the third subscription-based program from Blackhawk (Figure 29). It's a very interesting program designed for locksmiths who work on automotive or motorcycle locks. If you are familiar with vehicle locks, you know that they can (although operated by the same key) have a different number of tumblers in each lock and have the tumblers in different positions. FILL is designed to search a code series for a particular vehicle where you decode tumblers that might only be in a particular lock. It quickly compares every code that contains those tumblers in those specific tumbler positions, with unknown values in the missing positions. You can see an extensive list of vehicle brands that you can choose from. I'll demonstrate a simple example using Chevrolet.

The Chevrolet screen (Figure 30) provides selections determined by style of lock, model years, Chevrolet models and various key blanks used for Chevrolet vehicles. I'll pretend I am fitting a door key for an older-model Chevrolet vehicle that uses a single-sided A keyway key. I have removed the glove box lock that only has four tumblers of six cuts needed to make the complete key. If I select A keyway, I get the screen you see in Figure 31 (shown with my input explained below).

This screen provides some specifications that apply to these types of locks. The picture of the key toward the bottom is for inputting known and unknown tumbler values. I don't know the first two tumbler positions, so I input "?" for each unknown position. The last four tumbler positions are "1234." I entered

the value "??1234" in the line inside the key picture (Figure 31).

The result is a custom progression chart for this vehicle (Figure 32). There are general progression charts for older-style General Motors vehicles that have six cut single-sided keys. For years, I'd avoid removing door locks by just removing the glove box lock and using that progression chart to fit keys in minutes. It was based on the rules that applied to all the code series involving six cut single-sided keys.

FILL can customize progression charts to specific vehicles. The value of FILL is apparent with more complicated vehicle key fittings, but it works very well with this code series. The progression charts are designed to let you create an operating key with minimal key blank wastage.

The actual six cut pattern for the operating key is 22134. If you look at the first key, you can progressively cut the same key blank as 131234 and then re-cut only the first cut to a 3, making the bitting 331234. That is not the correct bitting, so I would re-cut the first cut to a 5, making the bitting 531234. That isn't correct, so I start my second key with the cuts 22134, which is the correct operating key.

At this point, I now have an operating key for the vehicle door in just minutes without having to tackle the door panel and remove the door lock. That saves considerable time and trouble, but there's another great feature of the FILL program. Just below the progression chart, you can see the message "Click on combination to see the code(s) leading to it." When I click on 22134, I get screen shown in Figure 33. What just happened was a search of all the six cut GM code series that have the A keyway and the key

home lockcodes h

Combination 221234

Codes: 47V1 4W49 5B18

Figure 33. FILL On Line allows you to start out with a key bitting for an automotive key and do a reverse code search.

Select cylinder type:			
Arrow	Falcon	Russwin D/H Sys 70	Sargent 6300
Best A2	Ilco	Russwin D/H pre-70	Schlage
Best A3	Kwikset	Russwin N Sys 70	Segal
Best A4	Lockwood	Russwin N pre-70	Weiser
Corbin Russwin Z Sys 70	Master/Dexter	Russwin 752	Weslock Std.
Corbin Z pre-70	National 411	Russwin 852	Weslock Lg.
Corbin X Sys 70	National 484	Russwin 981	Yale .019
Corbin X pre-70	Russwin A	Sargent (old)	Yale .025

Figure 34. PIN It Now! provides a pinning chart when you input the key bitting values.

Control key(s): 5071613

Change and master keys: 5675235
7437053

☒ Regular
☒ OEM pins

Display pinning chart(s)

Figure 35

Top	8	13	6	12	7	12	10
Control/Build	8	4	10	4	14	6	8
Master	2	2	4	2	2	2	2
Bottom	5	4	3	5	0	3	3

Pin lengths in thousandths							
Top	100	162	75	150	87	150	125
Control/Build	100	50	125	50	175	75	100
Master	25	25	50	25	25	25	25
Bottom	172	160	147	172	110	147	147

Figure 36

Figures 35 and 36. Input the key bitting values (Figure 35) resulted in what you see in Figure 36.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		
A-H		1003M, 1069LB
ABLE		VR2
Abus	padlocks	See Blue Dog #65½
Abus	spare tire lock	1069LB, 1069N
Abus padlock		1000F, 1000P, SLA15
Ace	padlock	1141GE, 1092NTG
Ace	tubular key	1137B
Ace		C1041L
Acme	padlock	1092, 1092N
Acorn		1123, A54B, O1122, O1122A
Acrolock	night latch	999
Acro Welch		999
Action	padlock	1000, X1014F, S1096LN, 1092, O1007LN, N1069B, 1171
Action bike lock	Korea	X1014F
Adams	aircraft	O1014J, A1001ABM
Adams Rite	glass door	1145, 999, 1054WB
Ademco	burglar alarm	1098M, K1122D, 1518, Medeco restricted
ADM	padlock	1307A, 1145
Advance Affiliate		1120D, 1092
Aero Commander		999
Aero Lock		999
Age	Sears desk lock	O1122, O1122A
Age	sliding door	1001PZ and See Ilco Catalog 12th Edition
Age lock	Japan	O1122, O1122A
Aimco		1099M, O1122AR
Airplanes		L1054B
Airstream	RV	1125A, H1054B
Alba	padlock	P1098C
Alba	Mexico gate lock	A1, A3

Figure 37. Lock Name Listing shows some of the possible key blanks you can use.

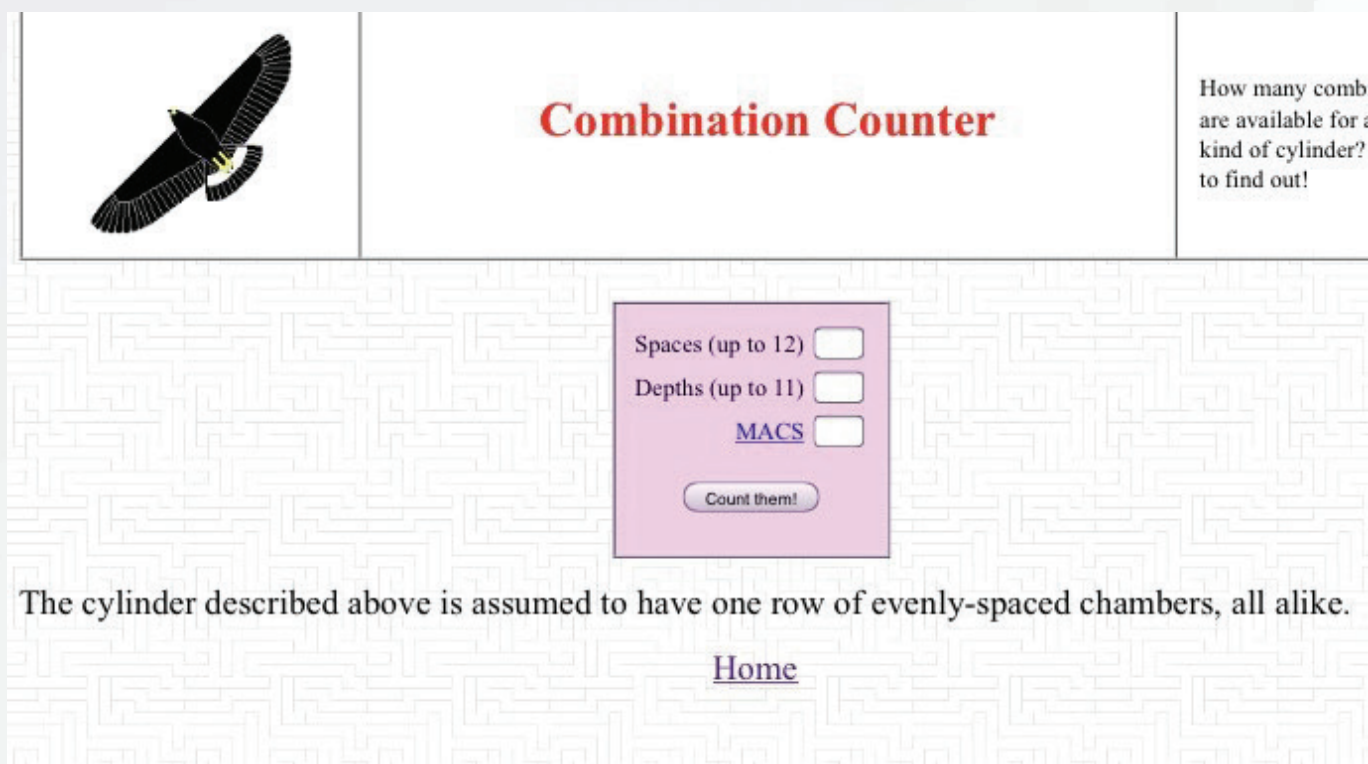


Figure 38. Combination Counter will calculate the number of unique key combinations that can be created for that type of lock.

bitting 221234. The results are these codes: 47V1, 4W49 and 5B18.

This feature allows you to start out with a key bitting for an automotive key and do a reverse code search. This feature is only available for vehicle codes, so I couldn't have done a reverse search for the Master padlock if I already knew the key cuts but didn't know the code. If you wanted, you could provide a service for your automotive customers who have used cars with operating keys but no codes.

PIN It Now!

PIN It Now! (Figure 34) is one of the programs that are free when you pay for one or more of the paid subscription programs. It provides a pinning chart when you input the key bitting values. I selected Best A2. It then asks control key and change and master key values. I input the key bitting values (Figure 35) and selected regular and OEM pins with the result seen in Figure 36. If you aren't master keying or keying locks that require special pinning rules, it might be waste of time to pull out this program. The more complicated lock setups make this a very valuable tool.

Lock Name Listing

One of the other free programs is Lock Name Listing (Figure 37). It's an alphabetic listing of lock brand names (and

some lock types) that shows some of the possible key blanks you might use. It's handy because many auxiliary locks don't easily tell you what key blank to use. It has an alphabetic index at the top that lets you track a brand name and suggests possible key blanks.

Combination Counter

Combination Counter (Figure 38) is effectively a free calculator program. You input the number of spaces on the key, number of depths for the brand and the MACS (maximum adjacent cut specification) value, and it will calculate the number of unique key combinations that can be created for that type of lock.

If you want to try the demo, go to either mirror website, call 970-882-2522 or email lockcodesstaff@gmail.com. ☎



Sal Dulcamaro started out in locksmithing in 1975 at age 17. He first practiced as a commercial locksmith before becoming an institutional locksmith in May 2014 for a large hospital. He has been a technical writer for more than 30 years, with more than 300 magazine articles published. He previously served as a contributing editor and a technical editor for Reed's Security Reporter.

Scripophily:

A New Love for Old Stuff

Combine your love of the lock industry with history to take up a new hobby. **By Vernon Kelley, CFDI, CFL, CMIL, CPL, ICML, IFDI, LSFDI**

WHO WANTS A BUNCH OF DUSTY OLD STOCK AND BOND certificates that no longer have any cash value? I do! And if you're a history and lock buff, you may be interested, too (see *Figure 1*). I've amassed a large collection of lock-related certificates, and the history is fascinating.

The study and collection of obsolete stock and bond certificates is known as scripophily. At this point, I'm sure you're asking yourself, "How do I pronounce that?" Try this on for size: "scrip-awfully."



Figure 1. This is a Segal Lock certificate, the author's first scripophily purchase. He paid \$24 for it.



Figure 2a



Figure 2b

Figures 2a-2c. Compare the artistry of the old Black and Decker certificates (Figures 2a and 2b) with the boring visuals of the newer certificate (Figure 2c).

Scripophily is a specialized form of numismatics, which is the study or collection of currency, including coins, tokens, paper money, medals and related objects. Yes, stocks and bonds are a form of currency. The difference in scripophily is that the owner of an old stock or bond purchased the document for what the certificate itself is worth now, *not* the value it represented when it was initially purchased decades (or even centuries) ago.

What to Look For

So, you want to take a trip down the rabbit hole that is scripophily. There are numerous factors that determine the value of a stock or bond certificate. Listed below are probably the most important elements determining a certificate's worth, even if it's only worth something to you.

Condition

While there are similarities, grading in scripophily is not as strict as grading criteria used for coins, stamps or even baseball cards. Most people acquire certificates for the artwork and/or history, so the condition of the certificate may not matter nearly as much as it would to a coin or stamp collector. Regardless, a rough grading scale is below:

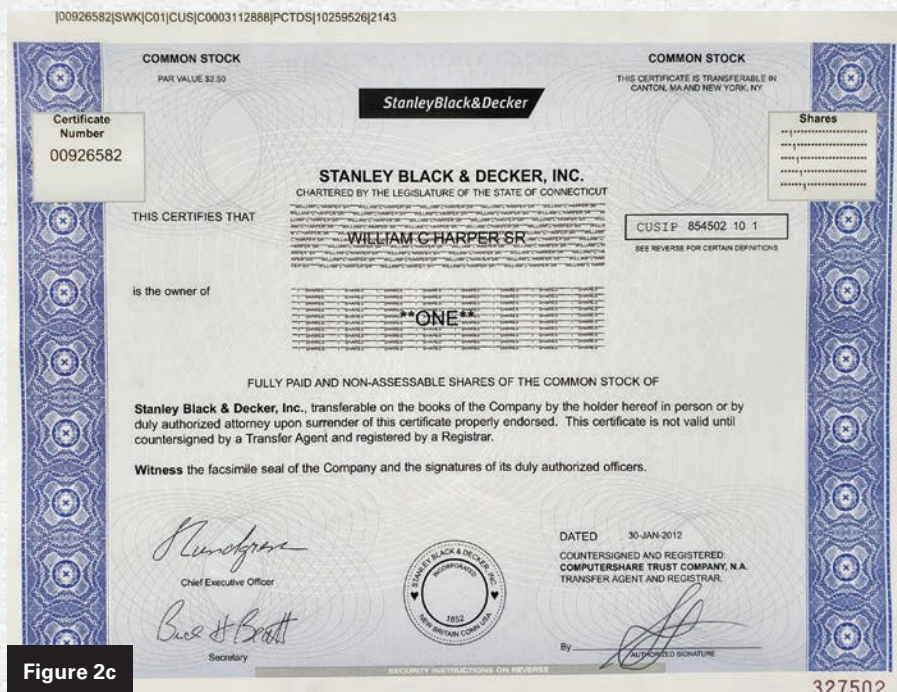


Figure 2c

- Uncirculated: looks like new, no abnormal markings or folds, no staples, clean signature and no stains
- Extremely Fine: slight traces of wear, if any at all
- Very Fine: minor traces of wear
- Fine: creased, with clear signs of use and wear
- Fair: strong signs of use and wear
- Poor: some damage, with heavy signs of wear and staining

Aesthetics

By the late 1990s, certificates started to get really visually boring. There's no real mystery as to why: computers (Figures 2a-2c). It was difficult for computer scanners to process certificates with the ornate visuals often found on certificates before the computer age. Most certificates pre-1990s have a certain artistry to them not found in latter-day documents (Figure 3).



Figure 3. The artistry in this Clous Au Soliel certificate is stunning (as far as the author can tell, this French company produced nails).

While many certificates have intricate borders or coloring, I have a particular fondness for vignettes. A vignette is a small illustration or photo that fades into its background without a definite border. While many vignettes are somewhat general in theme, some are very industry specific — my favorite certificates usually have those (Figures 4a-4d).

Age

The age of a certificate can have some bearing on its value, but other factors often play a much more significant role. But, I do admit that it's intriguing to hold a certificate that was initially issued in 1865.

Cancellation Markings

Old certificates were canceled by hand. Most of the markings I've observed are nothing more than scribbled lines, or marked with a check or an "X" (Figure 5). Still, I guess an interesting mark or handwritten note can raise the value... if it's legible. (Good luck with that.)

Certificate Owner's Name

In the good ol' United States, we're obsessed with celebrities. They are essentially our royalty. So, it stands to reason that almost any name of a famous person that appears on a certificate will fetch more money.

Demand

Just like any other collector's market, it's all about supply and demand. This very article alone might drive up the "locksmith-centric" scripophily market. I guess I'll have nobody but myself to blame if the price of the hardware industry certificates I'm usually interested in goes through the roof. Oh, the sacrifices I make for my readers!

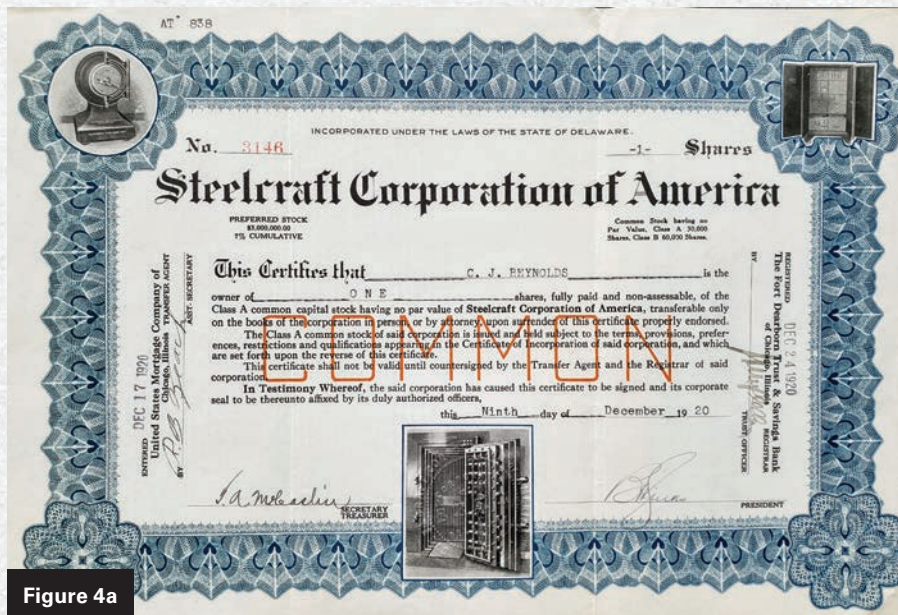


Figure 4a

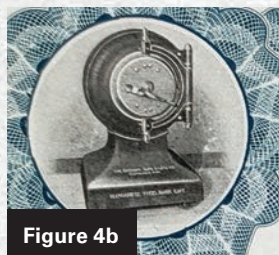


Figure 4b

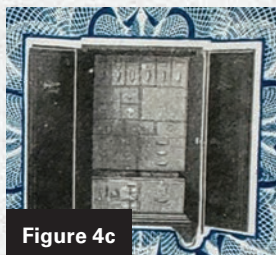


Figure 4c

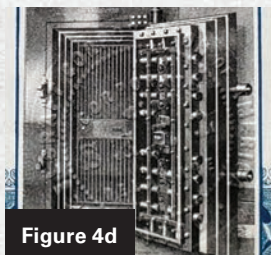


Figure 4d

Figures 4a-4d. Look at these wonderful vignettes of the safe produced by Steelcraft. Safe and vault technicians, eat your heart out!



Figure 5. Eagle Lock was a major player in the lock industry in America but fell on hard times and went out of business in the mid-70s.

Engraving Process

Frankly, I don't know too much about the engraving processes of certificates. But, some things to consider for the more discerning collector are: Was it printed by hand, wood or steel? Was lithography used to produce the certificate?

Historical Significance

Was the certificate issued by a company that was at the vanguard of the creation of that industry? Remember Pan Am? They practically invented relatively affordable commercial airline travel for Suzie Six-Pack and Johnny Lunchpail. Their certificates usually have a high value as a result, as do Yale certificates (Figure 6).

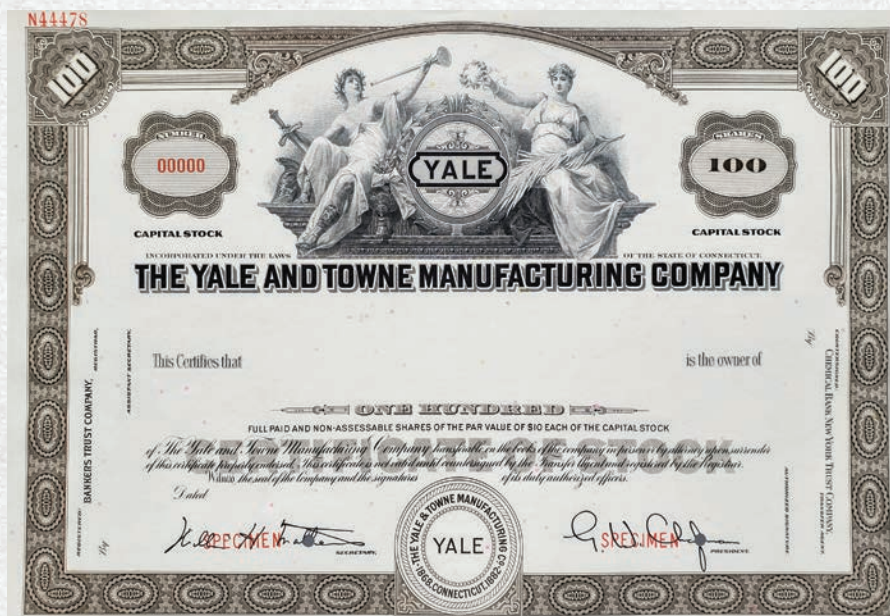


Figure 6. Yes, Yale University is the namesake of Elihu Yale, an ancestor of Linus Yale, Senior and Junior.



Figure 7a

Figures 7a and 7b. American Hardware was once the parent company of Corbin and Russwin, although each “company” had its own catalog number for the same exact product.

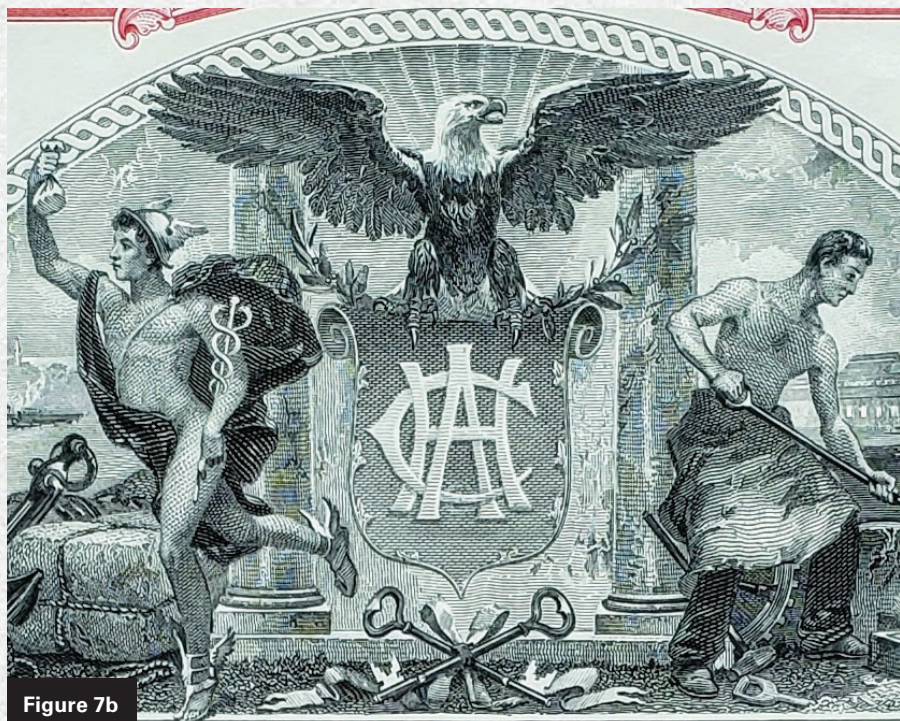


Figure 7b

Issued or Unissued

Was the item issued or unissued? Sometimes, you’ll encounter a certificate that is a printer’s prototype, usually stamped with the word “specimen.” (Figures 7a and 7b). These certificates are more often than not in extremely fine or uncirculated condition. However, unlike baseball cards, specimen certificates are rarely more valuable than a certificate that has been issued to an investor.

Market

The market type of the issuing company may have some influence on the certificate’s value. I’ll reference railroads again. There is a flood of certificates for railroad companies, but the influence that particular industry has in America these days is barely a blip on the financial radar.



Figure 8a

Figures 8a and 8b. National File & Tool certainly knew its market.

Their market has changed that drastically (Figures 8a and 8b).

Newsworthy

A company's reputation can have a serious effect on a certificate's value. And a bad reputation does not always translate into a certificate's price being lower. Remember Enron? I'll succinctly sum up the representative value listed on any and all Enron certificates you may find in the scripophily-sphere: jack squat. But an Enron paper stock routinely lists for between \$200 and \$350. Go figure.

Original Face Value

How much was the stock or bond issued for? Usually, the larger the original face value, the more collectible it is because the perception is that the certificates

for higher values were issued less frequently.

Paper

Was the paper used in the printing high or low quality? Has the paper held up over time? Does it have a watermark to prevent counterfeiting? I usually don't pay that much attention to paper quality, but there can be a noticeable difference between some certificates.



Figure 8b

Printers

I normally don't care about which company actually printed a certificate, but it does matter to some collectors. American Bank Note and Security Banknote companies were probably the two biggest producers in the United States.

Rarity

How many certificates did that company issue, and how many survived over



Figure 9

Figures 9 and 10. Take a look at the signatures on the Best certificate (Figure 9) and the Russell & Erwin stock transfer certificate (Figure 10). Most people these days know the Russell & Erwin Manufacturing Company as Corbin Russwin.

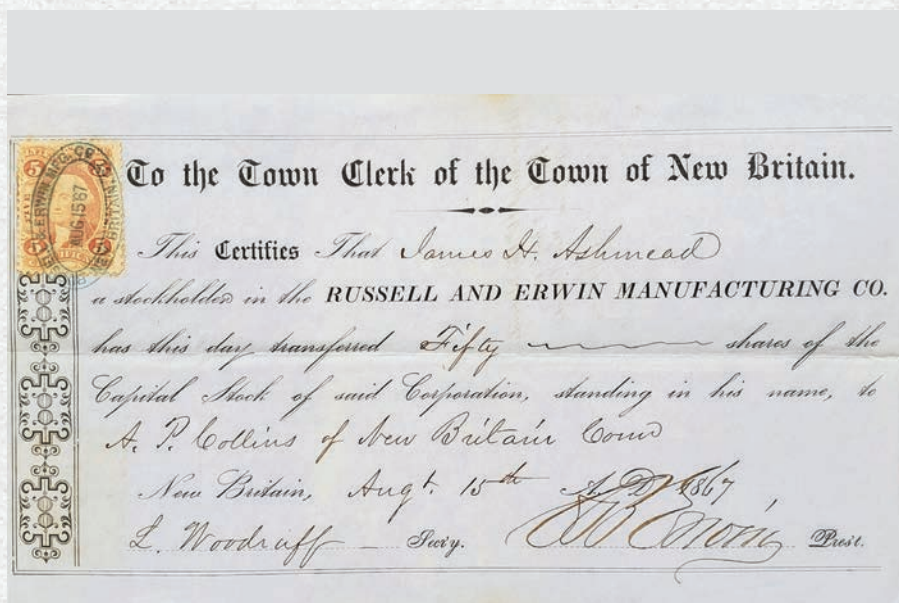


Figure 10

the years? Is the certificate a low-issue number? There can be a very noticeable difference between the issuance of “common” versus “preferred” stock certificates, price-wise. Preferred certificates are usually more valuable.

Signatures

Did anyone famous (or infamous, for that matter) sign the certificate? This can drive up the price of a certificate significantly. Names like “Rockefeller” or “Disney” will definitely increase a certificate’s value substantially. In my case, I own certificates with signatures of Frank E. Best (1928) and Cornelius Erwin (1867) from Best Lock Corporation and Russell & Erwin Manufacturing Company, respectively (Figures 9 and 10).

Specific Theme

If you love trains and railroads, you're in for a treat. Railroad certificates abound in the world of scripophily. Today, we have a tendency to forget how powerful the railroad industry was between 1850 and 1950, so there is a tremendous amount of these certificates on the market. But the focus of this article — and the bulk of my collection — is door hardware and safe manufacturers, naturally.

Transfer Stamps

Truthfully, most of my certificates do not have any tax stamps on them (Figures 12a-12c). Things to look for would be whether the stamp is imprinted on the certificate or placed similar to how a postage stamp is affixed to an envelope. Is there anything unique about the stamp itself?



Figure 11. Take a look at this Pay Toilet Lock certificate. Here's a very specific theme for you readers!



Figure 12a



Figure 12b



Figure 12c

Figures 12a-12c. Tax stamps can affect a certificate's value.



Figure 13a

Figures 13a and 13b. Here's a bold move: Use a picture of yourself as the certificate vignette.

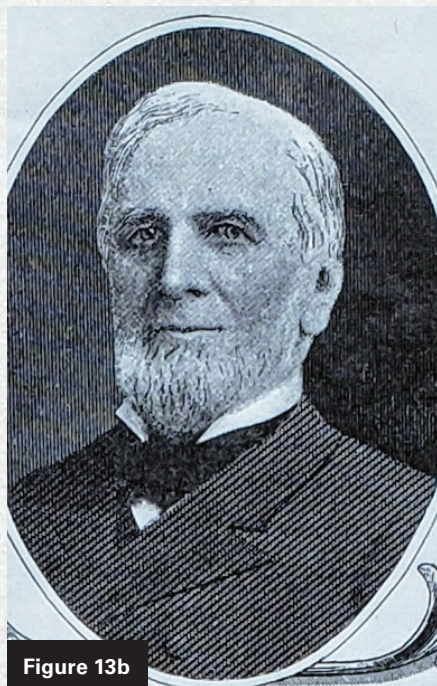


Figure 13b

I've always been interested in history in general but particularly the history of locksmithing and manufacturing, so those make up a majority of my collection. But I've also branched out into hardware in general as well as hardware stores (Figures 13a and 13b). I also live near the Delaware and Raritan Canal, which at one point in its 98-year existence as a business carried more barge and boat traffic (and made more money) than the much more famous Erie Canal. So, I've collected certificates from the D & R Canal's parent company, The United New Jersey Railroad and Canal Company (Figures 14a and 14b). The canal ceased commercial operation in 1932 but still exists today as a major water source for much of central New Jersey.

Why the heck am I writing about a defunct canal in a fine locksmith industry magazine like *Keynotes*? Only to illustrate how easily one can fall hopelessly (and apparently aimlessly, as is my situation) into the scripophily rabbit hole! If you also get drawn into the same rabbit hole, at least you can't say I didn't warn you.

How deep can the scripophily rabbit hole possibly be? Well, for a mere \$35,740, you can contact an acquaintance of mine in the scripophily universe, Christopher LaBarre of George LaBarre H. Galleries (glabarre.com). You can then become the proud owner of a Tucker Corporation stock certificate signed by visionary automaker Preston Thomas Tucker (Figure 15).



Figure 14a

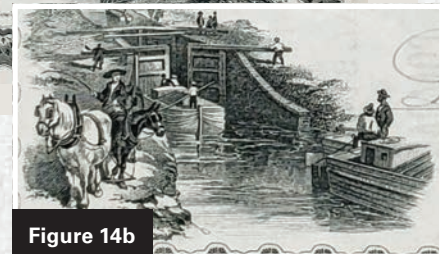


Figure 14b

Figures 14a and 14b. The author was never able to determine which one of the 14 canal locks on this man-made waterway is pictured in the vignette. Evidently, he likes locks no matter the configuration!

So, is scripophily a new hobby you want to take up? Take your own trip into the addictive scripophily vortex like I did and find out for yourself. Just stay out of my way on eBay! ☺



Vernon Kelley, CFDI, CFL, CMIL, CPL, ICML, IFDI, LSFID, 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.

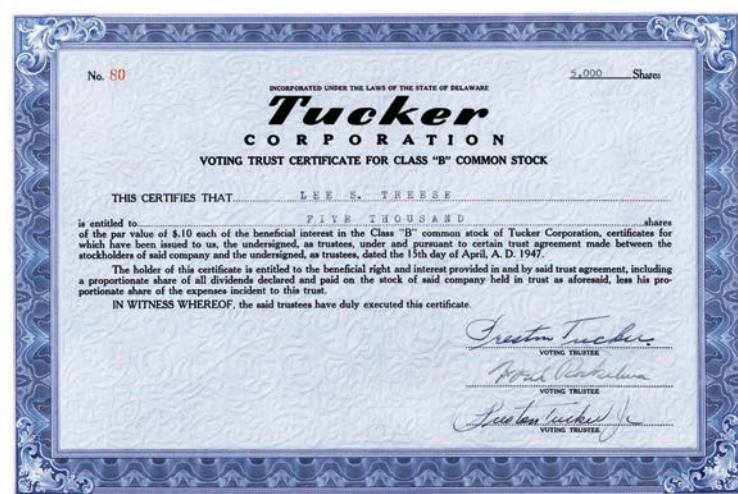


Figure 15. Preston Thomas Tucker was the subject of the 1988 Francis Ford Coppola film *Tucker: A Man and His Dream*. While Tucker may have been an automotive manufacturing trailblazer, his stock certificate sure isn't much to look at. Photo courtesy of George LeBarre H. Galleries

A Different Take

Tony Wiersielis, CPL, CFDI, provides his solution to Unit lock retrofits.

FIRST, A LITTLE CATCH-UP. IN THE OCTOBER ISSUE OF *KEYNOTES*, I told you what happened to my service van after a hurricane. A month later, it was deemed a total loss because of the flooding. I recently picked up my boss's practically new van, since he doesn't use it any more. My original van had all the bells and whistles, but the ones that came after mine are bare bones. I guess it's a blank canvas, with a lot of work to come.

In the November issue, I showed you genuine BEST A2 and A4 pin kits, but my A3 kit was in storage, so I couldn't get to it. *Figure 1* is a picture of it, minus the tools, springs and caps. You can see the bottom pins are 0-6, and the master

pins are 1-13. The pin stack height is 16. Again, the only pin that is the same as A2 and A4 is the 0 pin.

Figure 2 is a shot of the key gauges for all three. Notice that they don't say "A2," "A3" or "A4" on them; you need to know the cut numbers to tell them apart. That's pretty simple, but here's a caveat: The difference between the A3 and A4 gauge is very subtle. In the



Figure 1. Here is the author's BEST A3 kit referenced in the November issue of *Keynotes*.



Figure 2. The arrow points to the number 6 depth on the A3 gauge.

picture, the arrow points to the number 6 depth on the A3 gauge.

When I inherited those three gauges from a friend, they were together on a key ring. I was working on an A4 system and was using the A3 gauge. I was scratching my head for about five minutes before I realized I was using the wrong gauge. By the way, if you look closely at the bottom of each gauge, you can see three different iterations of the BEST company name over the years.

A Different Take

I had already started writing this article when I received the digital version of the October issue of *Keynotes* early in the month. By coincidence, Greg Perry's excellent article "A Classroom Security Retrofit," covers the same subject. My solution to the issues involved with Unit locks is different from his and also includes an after-market part that can make the job a bit easier... although there is a trade-off. You'll see what I mean as you read further. Here goes.

Recently, we did a retrofit that involved replacing old Corbin Unit locks with BEST 9K cylindrical locks. This was in a school in northwestern NJ that had been built in 1959, 62 years ago. These are not labeled doors and frames. I'm not going into all the steps involved in the conversion process because it's fairly simple: Remove the old lock, install a wraparound plate and install the new lock and core. At least that's what you'd think.

If you're new to the trade or have never retrofitted Unit locks, you may be unaware of the issue encountered on this job that cost us time and money. I'll explain what I mean shortly.

Unit locks slide into a rectangular cutout in the door and are held in place by three screws passing through the lock. *Figures 3* and *4* show two Unit locks on classroom doors: *Figure 3* is left-hand reverse bevel (LHRB), and *Figure 4* is right-hand reverse bevel (RHRB). Compare the latch positions



Figure 3



Figure 4

Figures 3 and 4. *Figure 3* is left-hand reverse bevel (LHRB), and *Figure 4* is right-hand reverse bevel (RHRB).



Figure 5



Figure 6

Figures 5 and 6. These images show two handed strikes with the holes at different heights.

in each of those two pictures. Notice on the LHRB lock that the latch is higher on the face of the lock and not centered. The RHRB lock is the exact opposite and lower on the face of the lock. (One thing to note: The auxiliary latch is located either above or below the latchbolt on a Unit lock, but behind the latchbolt when viewed from the outside on a cylinder lock.)

This is a critical point: That rectangular cutout is at the exact same height

on every door in the building. The latch plate is also at the same height and centered on the cutout. Understand that what's different is the position of the latch and the hole in the strike plate. *Figures 5* and *6* show two *handed* strikes with the holes at different heights.

This can be a problem when you're retrofitting to wraparound plates and cylindrical locks with latches that are centered on the lock chassis. The strike that comes



Figure 7. The Don-Jo ST-134 strike is an exact fit in a Unit lock strike prep.

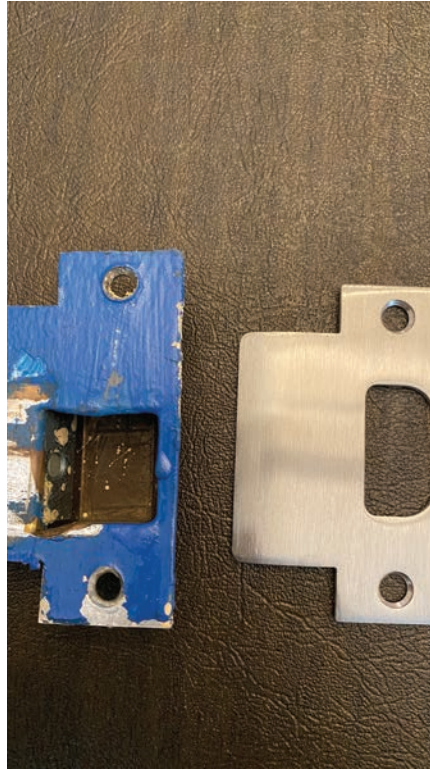


Figure 8. An old strike is shown next to a new one.



Figure 9. The new strike is on top of the old one so you can see it's an exact fit.



Figure 10. The new strike is in place on the frame.



Figure 11. The red circle shows that the latch is still depressed while the door is closed and not in the strike hole.



Figure 12. The strike modified so that the latch will drop into the hole.

“The chassis felt like it was stuck when I tried to pull it out.”

with the new lock won't fit in the existing prep, so you have to use the old strike. This means that you have to center your latch on the existing strike hole. But the hole isn't centered, is it?

Suppose you have two classrooms adjacent to each other and the doors are also next to each other, but one is right hand and the other is left hand. If you're centering the new latches on the existing strikes, by necessity one lock will be higher than center, and the other will be lower than center. On doors close together, this is going to be obvious. Single doors down a hallway? Not so obvious, but still there.

Up to this point, you might think that this is unavoidable and explain it to the customer. Some won't mind. But most will. You could grind out the strike, but that can be sloppy-looking and a time killer.

Figure 7 is a Don-Jo ST-134 strike. This strike is an exact fit in a Unit lock strike prep. As you can see, the hole is vertically centered on the new strike. Figure 8 compares an old strike with the new, and Figure 9 shows the new on top of the old so you can see it's an exact fit. By using this strike, every lock will be at the same height all the way down the corridor. Sounds good, right? Problem solved? Not quite. Remember that trade-off I mentioned earlier? Here it comes.

The Trade-Off

On the big retrofit we were doing, one wing of the school was about to have

asbestos floor tiles removed, so we decided to have two guys start there while we still had the chance. The distributor was dropping off the ST-134 strikes later that day, so the locks went in without them. We did have one strike for centering the wraps and locks as the guys went from door to door.

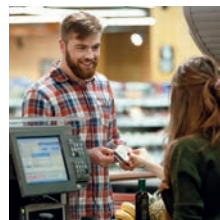
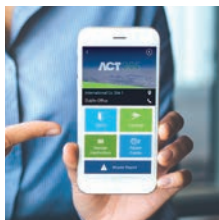
Shortly after the strikes were delivered, I got a call that the doors were not latch-

ing; the latches were not falling into the holes. Then I got some muttering, an “I'll call you back” and a click. About an hour later he did, and he was none too happy. “Come up here and take a look at this!”

Figure 10 shows the new strike in place on the frame. Figure 11 is a screenshot from a video I took of the door closing on the new strike. The red circle shows that the latch is still depressed while the door

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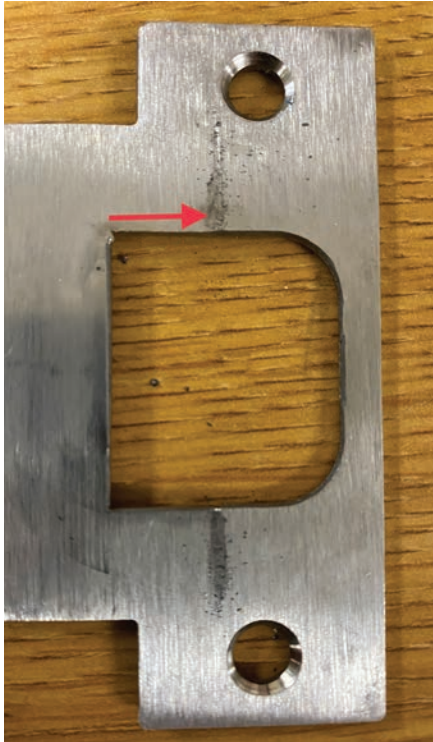


Figure 13. The length of the arrow is approximately the amount of metal that needed to be removed.



Figure 14. The piece of cardboard roughly represents the metal that had to be removed for the strike to work.

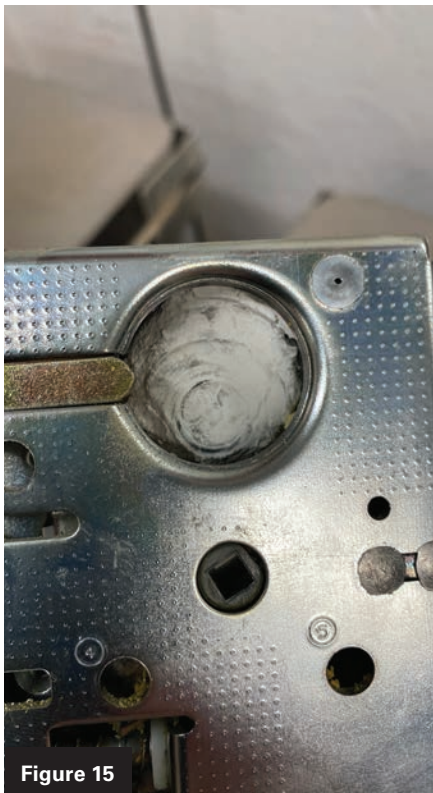


Figure 15



Figure 16

Figures 15 and 16. Notice the discoloration around the plugged cylinder hole.

is closed and not in the strike hole. *Figure 12* is the same strike modified so that the latch will drop into the hole.

Figure 13 shows a red arrow pointing to a pencil mark on the modified strike. The length of that arrow is approximately the amount of metal that needed to be removed for this to work. *Figure 14* shows another way of looking at the difference between the modified and unmodified strike. The piece of cardboard roughly represents the metal that had to be removed for the strike to work.

Removing the Metal

Now that we knew what was needed, we needed an efficient way to do it. The strikes were stainless steel, so we weren't going to waste time grinding out 160-plus of them one at a time. We found a full-service industrial metal shop fairly close by. I brought all of the new strikes plus the modified one to use as a template and told them what we needed.

The next day, they called me with a price to punch out the excess metal, and I gave the green light. I think they charged us about \$2 per strike, and we got them back the next morning.

I'm not sure what application the unaltered ST-134 strike is used for, but the folks at Don-Jo told me they sell a lot of them. I haven't had a need to use them, as we often use the existing strikes if they're an odd size. If I recall correctly, I believe they also told me that the ST-134 is not specifically for Unit locks, but they can make pretty much anything custom.

If you're going to do a Unit lock retrofit to cylindrical and you don't want to use the old strikes for the reason I mentioned earlier, you have three choices. Each option requires the ST-134 strike, since it's a perfect fit in that prep. The first option is to modify the strike yourself, which probably isn't the best thing to do. The second is to find a metal worker to punch them



Figure 17. The author looked in the prep and saw this plaster disk.

out like we did, but that costs money that you'll need to add into your pricing. The third option would be to ask Don-Jo to make the modified strikes for you. To me, that's the best choice.

From the 'What Were They Thinking' File

Recently, at that nameless college in Manhattan, I got a call to fix a malfunctioning classroom function mortise lock. It was in the pottery and casting workshop/classroom in the kiln room where they fire ceramics and such. In a moment, you'll understand why I pointed out that seemingly insignificant fact.

The chassis felt like it was stuck when I tried to pull it out. When I got it out of the door, I saw what you see in *Figures 15 and 16*, viewed from the cylinder and non-cylinder side respectively. Notice the discoloration around the plugged cylinder hole. The white stuff appeared to be plaster, which was absolutely mystifying to me and the person watching me work.

I looked in the prep and saw the plaster disk you see in *Figure 17*. Notice the rust on the inside of the door. They told me there was a water leak above the door, but that's a



Figure 18. The author knocked off the plaster disk by putting the blade of a putty knife against it and tapping.




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Figure 19



Figure 20

Figures 19 and 20. When the author saw what is in *Figure 19*, he realized it was an unused inside cylinder hole that the plaster was filling (*Figure 20*).

different issue they should probably fix soon. I knocked off the disk by putting the blade of a putty knife against it and tapping (*Figure 18*). I gave it to one of the classroom staff members, who thought it was cool.

The chassis had plaster debris in it, so I brought it back to the shop. I was pressed for time (I only work there two days a week), so I grabbed another chassis. When I get some slack time, I'll clean up the other one.

I was still trying to figure out what the plaster was for. I had left the door propped open at 90 degrees. When I moved the doorstop, I noticed what you see in *Figure 19*, and the lightbulb switched on in my head: That's an unused inside cylinder hole (*Figure 20*). Some genius decided that the best way to deal with that hole was to pack it full of plaster, smooth it out and paint it. It's a wonder the lock functioned for as long as it did.

It likely was done because someone on staff figured out that a student could unlock the outside lever through that hole. The kiln room was routinely closed and locked while the staff was loading and unloading the kilns, which can be quite dangerous. I had run out of dummy cylinders, so I used a standard cylinder upside down in its place (*Figure 21*). I do it this way so I don't get work orders about "cylinders not on the master."



Figure 21. The author had run out of dummy cylinders, so he used a standard cylinder upside down in its place.

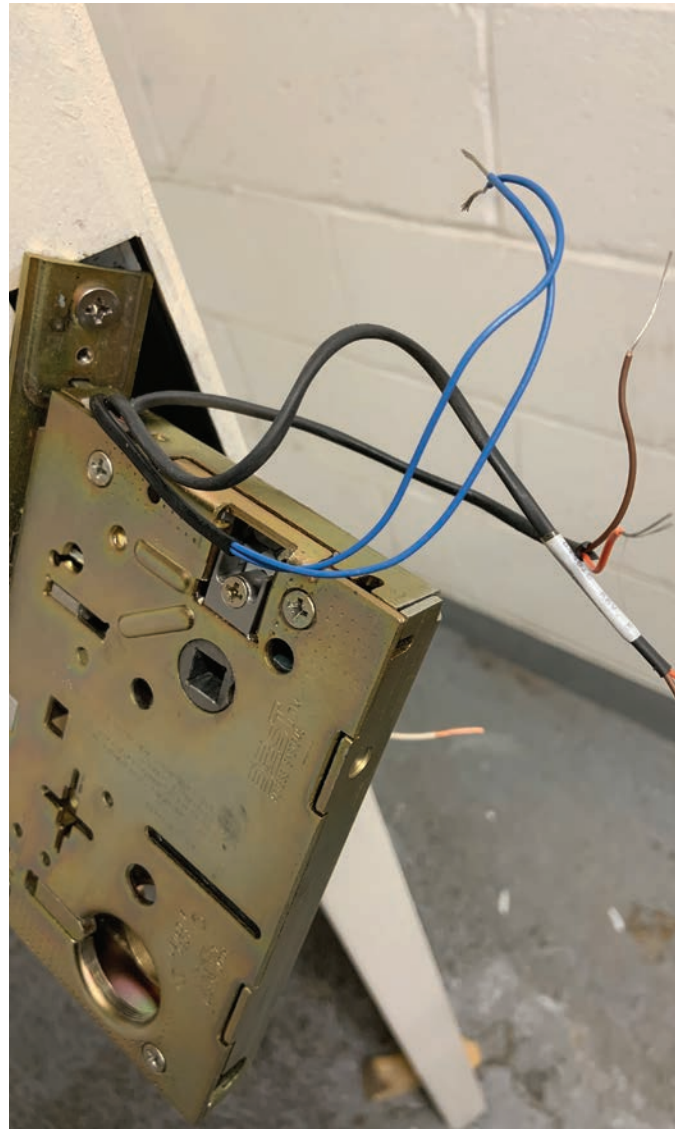


Figure 22. When doing electrified lock replacements, the author uses a screw to hold the chassis on the door to hold it in place.

A Tip and Several Requests

I do a lot of electrified lock replacements on campus, and I've found using a screw to hold the chassis on the door as I have in *Figure 22* is a great help. If you do this kind of work a lot, you know what a pain in the butt it is to juggle the chassis, wire and tools while trying not to drop something and snap wires.

On to the requests: Does anybody have a formula to figure out lost combinations of open Master combination locks by looking through the shackle hole? I'm

thinking that lining up the wheels with an otoscope and adding/subtracting will reveal the numbers. I know I can get the lost combos from Master, but figuring this out has reached the "vendetta" stage for me. My email is aew59@juno.com. Please put "master hack" in the subject line.

I'm trying to locate a Yale Bicentric cylinder so I can learn about them and possibly write a blast from the past article one day. I'm interested in buying or borrowing one (if someone's willing to

do that). If you can help, please put "Yale cylinder" in the email subject line. ☺



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.

do that). If you can help, please put "Yale cylinder" in the email subject line. ☺

Year-End Thoughts

By Jim Hancock, CML, CMST

AS WE WRITE THESE ARTICLES FOR THE DECEMBER ISSUE IN OCTOBER, we certainly have no way to predict what is happening in this world during post-Thanksgiving/pre-Christmas time. Are things returning to normal, morphing to a new normal or are we still facing the uncertainty that turned the world upside down and frankly ripped the very fabric of this country in 2020-2021? We were (are) faced with so many issues that COVID-19 created in every aspect of life:

1. **Economic** — shutdowns, lost jobs, companies going under, minimal workforce causing delays and stoppages in many services.
2. **Social** — families put to the test of being quarantined together for long periods with little to no interaction with those outside the household, and parties and other mass events canceled or limited to very small numbers. The simple acts of going out for a meal, a movie, shopping and even buying necessities from markets and big box stores were limited by delivery options or shortages.
3. **Health** — Massive waiting lists for doctor visits, with many occurring via Zoom instead of in person. Those with pre-existing conditions had trouble locating a bed in many hospitals due to the influx of those dealing with the virus. And healthcare workers did double, triple or seemingly endless shifts due to the overrun hospitals and clinics.
4. **Political** — Lest we forget. Because we as a nation, since the mid-1990s, have somewhere along the way lost focus on being American and are more concerned about being Republican, Democrat, Whig, independent or whatever. Rather than doing what this nation has always done best in tragedy (Pearl Harbor, 9/11, etc.) which is put aside the pettiness of politics and pull together to solve the problem and remain a strong presence and leader in the world, from almost Day 1 of the global (see that word *global*) pandemic, it became a finger-pointing contest based on what side of the aisle you sat on.

Challenges at ALOA

ALOA was faced with pretty much each of these issues as well. Economically, we had to downsize the staff and cut overhead to keep the organization afloat. We developed new online training via webinars to continue to meet the needs of the industry. We adapted our PRP testing to fit this new world, offering online sessions for them as well.

Socially, it became clear that the easiest way to save money and to make certain the staff was being protected was to work from home, which was certainly a challenge in the beginning. Not being able to see each other face-to-face

“While ALOA 2021 was successfully held in Orlando, Vegas has always been very good to ALOA, and we expect nothing less this time.”

daily to discuss issues and not being able to hold Conventions affected us not only socially (couldn't see old friends) but also economically was rough. It took a bit of trial and error to take an 18,000-square-foot building full of documents, records, training materials, equipment, office furniture and supplies and find a smaller place to store them and figure out how to conduct business remotely, but it works well today.

On the Horizon

As we look into that crystal ball, what does this all look like moving forward? Not sure about you, but my crystal is fogged up pretty badly, and I can't see anything clearly. But what I can tell you is what ALOA has on the horizon.

- **SAFETECH 2022** — Lets call this the “Return.” SAFETECH has been grounded from conventions for two years, whether by imposed travel restrictions, host state or city restrictions and several other factors. SAFETECH 2022 will be a grand return to the education and fellowship that has been sorely missed. And, oh yeah — a huge Friends of SAVTA Live Auction item to bid on...
- **ALOA 2022** — This is the “Return to Vegas.” While ALOA 2021 was successfully held in Orlando, Vegas has always been very good to ALOA, and we expect nothing less this time. We are working on new classes and education tracks.
- **IAIL** — With a new board in place and a new year, plans are being made to bring back the IAIL weekend training

session that has been very well received in Dallas in the past. We are looking at various venues around the country.

- **AIL** — We are looking to have more PRP testing specific to institutional locksmiths, with a possibility of some manufacturers and vendors offering training.

And, by the time you read this, the ALOA Board will have met and discussed the formation of the new International Association of Automotive Locksmiths (IAAL). We are looking toward fall 2022 for a possible conference as well as having a large presence at ALOA 2022, with a plethora of new classes.

While this has been on the agenda and discussed for a couple of years, we believe the evolution of the PRP testing from strictly a written exam to a blended exam of written and hands-on will be

happening. This has been beta tested on a limited basis and worked well.

So, while we can't predict in October 2021 what will happen in December 2021 (and certainly not what will happen beyond), ALOA is planning a return to the best version of “normal” possible. As the saying goes, “Good Lord willing and the creek don't rise” (or in today's environment, I suppose “Spirit is willing and the cases don't rise”), we truly hope to see each and every one of you at one of the events planned for 2022. Until then, everyone remain safe, healthy and happy. ☺



Jim Hancock, CML, CMST, is ALOA's education manager. You can reach him at jim@aloa.org or (214) 819-9733.



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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:

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Mario Medina, Creative Director Date: **11/16/2021**

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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>

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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.

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ASSA-Ruko/Technical Services	page 13	www.assatechnicalservicesinc.com	(724) 969-2595
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Bullseye S.D. Locks	page 13	www.bullseyesdlocks.com	(800) 364-4899
ClearStar Security Network	page 60	www.clearstar.com	(360) 379-2494
Framon	page 7	www.framon.com	(989) 354-5623
Hollon Safe	page 1	www.hollonsafe.com	(888) 455-2337
IDN	page 53	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
Locinox	page 15	www.locinoxusa.com	(877) LOCINOX
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Stone and Berg	page 49	www.stoneandberg.com	(800) 225-7405
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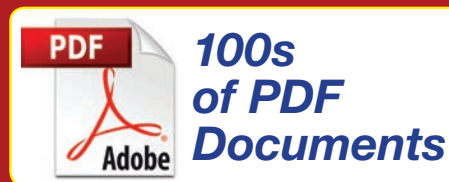


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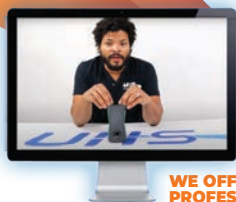
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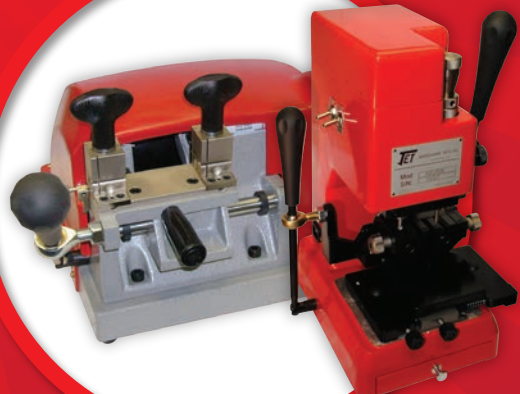


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