e House of Pain

Lessons

By Walt Webb

May 2001

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Bypassing the GM MATS ILCO 54 Series Safe Depnsit Lacks Institutional - Yesterday, Today and Tomorrow CyberLock's 1C Core And More



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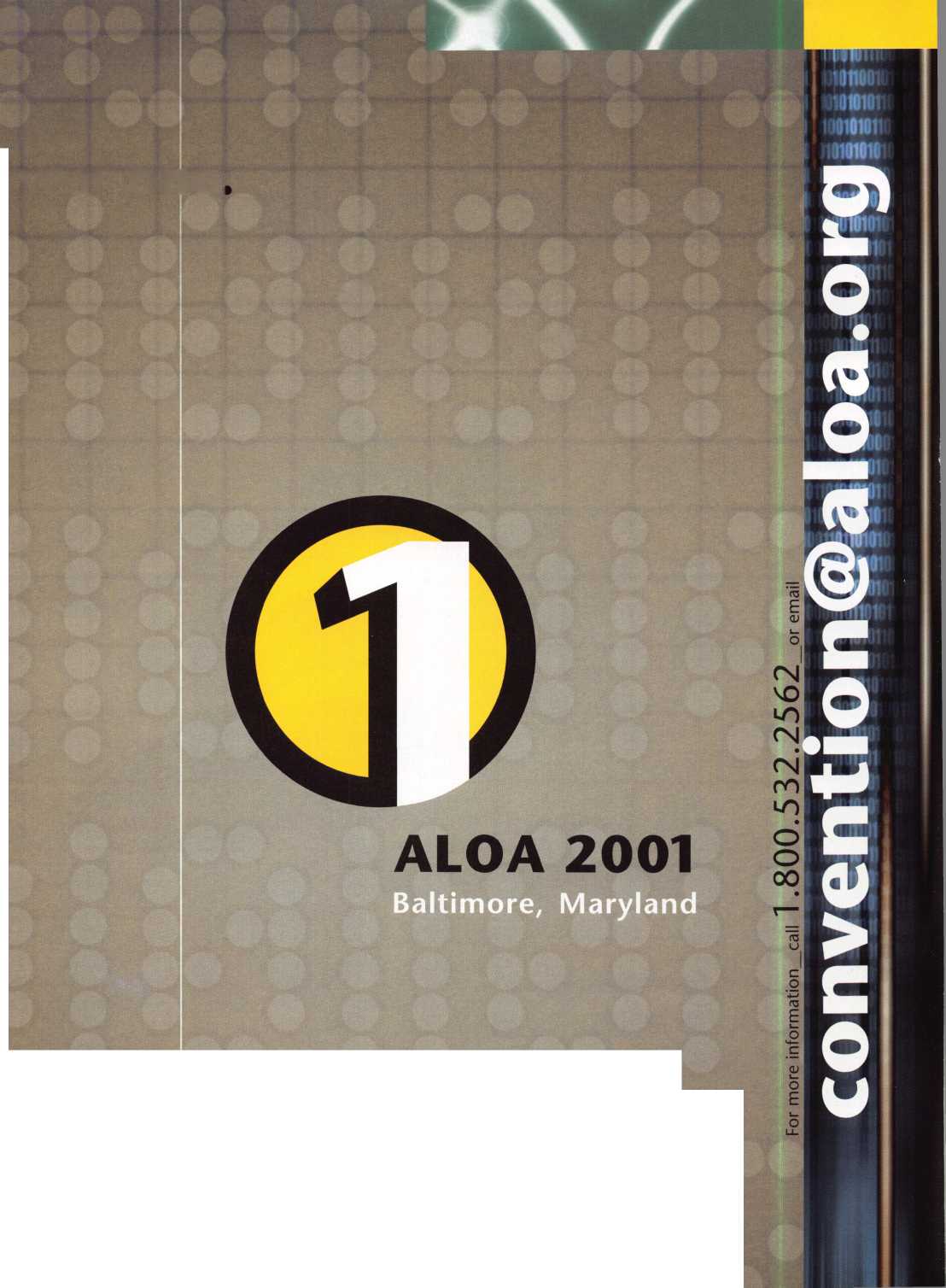
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2 | ***Keynotes***

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**President’s Journey**

By John Greenan, CML, CPS

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Cover Feature: So You Want to Be a Safeman?

**Lessons Learned at the House of Pain**

The whole job took me about two years. I spent hundreds of dollars on books, classes, and assorted tools and drill bits. It probably a good thing I am a firefighter full time; I may need a little more experience before I hang out my "SAFE-MAN" shingle.

By Walt Webb

18

**Electronic Safe Lock Selection**

Probably the best approach to electronic safe locks today is learning about those models that you are most likely to encounter in your day- to-day work. These are the locks you see on show room safes, in the literature from the safe manufacturers as options on their products and a few additional locks worth considering as replacements onto exist­ing safes. Let's take a look.

By Charles Stephenson, CPS

22

Automotive:

**Bypassing the Anti-Theft Ring GIVTs MATS Column**

If you do automotive work, and have not had the opportunity to expe­rience GM's MATS column, you will eventually. Of course, the first time you encounter this column, the vehicle will be parked with the front wheels against a parking lot barrier or against a curb. No prob­lem, with this technique, it won't matter.

By Bob Arhtur, CRL

26

Institutional Locksmithing:

**Past Present and Future**

A locksmith's job is based largely in customer service. In institutional work, the "customers" differ greatly from traditional shop customers. Here's how one locksmith took care of certain institutional situations that called for lots of locksmith know-how, and lots of diplomatic protocol.

By C.D. Lipscomb, CML, CPS

30

Traditional Locksmithing

**llco 54 Series Safe Deposit Locks**

The llco 54 Series safe deposit lock is a double nose lock, with separate key holes for each key. It is double changeable and both the guard and renter keys can be changed. Here's how to service it.

By Sal Dulcamara, CML

34

Access Control:

**Videx announces its new series of 1C**

Videx recently announced that CyberLock technology has been incor­porated into the interchangeable core cylinder and T-handle cylinder. The interchangeable core and T-handle cylinders join what is an extensive line-up of intelligent lock cylinders in the CyberLock fami­ly. Check out this helpful overview.

***May 2001***

**DEPARTMENTS**

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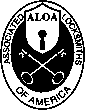
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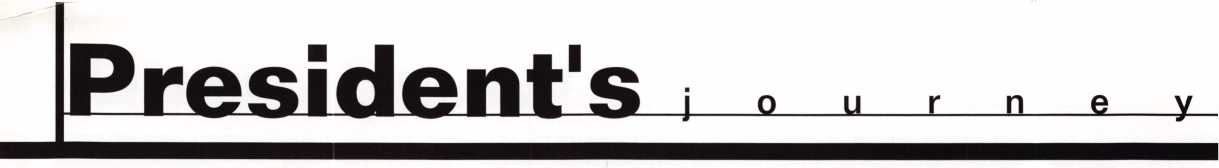
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***May 2001***

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You may have noticed that on your ALOA dues billing, we asked you a few ques­tions about your type of business, work environment, job function, company’s annual gross sales, and company’s annual resale hardware sales. The reason we asked you those questions, was to prove quantitatively that ALOA members represent a very healthy and profitable segment of the security industry.

With already over half of our membership responding to the survey, what we have is a better picture of what we already knew: ALOA members are moving their busi­nesses into the 21st century in terms of hardware sales and service.

A large majority of ALOA’s members are doing some type of Commercial lock- smithing (77%). This segment of the industry is less affected by inflation or reces­sion. A significant amount of ALOA’s members are doing Electronic locksmithing and Safes & Vaults (39%). This amounts to more high-end sales and service oppor­tunities as well as movement toward the future of our industry. Only about a third (30.6%) of our members do some type of Automotive locksmithing.

More than half of ALOA’s members (54.2%) work from a storefront and have mobile service. This means they have showrooms for displaying security hardware items. An overwhelming majority (73.1%) of ALOA’s members are owners/managers. This translates to decision makers in purchasing.

The total annual estimated gross sales of ALOA’s membership is $1,024,943,000 (yes, that is over 1 billion). The total annual estimated retail hardware sales of ALOA’s membership is $681,359,000 More importantly, this translates to $408,815,400 in wholesale buying power of ALOA’s combined membership, based on an industry average of 40% off the retail-selling price.

There is still one locksmithing segment, that ALOA needs to address. We currently are not attracting a large number of institutional locksmiths based on a 14.1% mem­bership. However, we are addressing this situation, with monthly coverage of institu­tional locksmithing in Keynotes magazine, and attendance at the ALOA Board meet­ings by the President of the Institutional Locksmiths Association.

For all of you who did respond, thank you. What these numbers do show is a thriv­ing ALOA - a promising future for security professionals. More importantly, it means our members represent tremendous purchasing power.

Keep up the good work!

John J. Greenan, CML, CPS

***May 2007***

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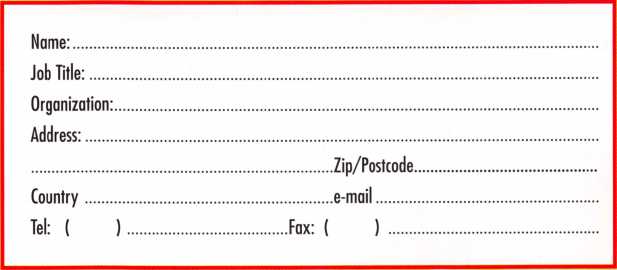
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**2001**

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14-17

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Grand Canyon Chapter of ALOA Introduction to Access Control Phoenix, AZ Contact: John Ilk, CRL 602/420-2174

**JUNE**

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North Jersey Master Locksmith Association 7 th Annual Flea Market and Swap Meet Quality Inn Lyndhurst, New Jersey (201) 944-7547

**AUGUST**

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**OCTOBER**

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Tri Regional Locksmith Conference Portland, OR

Pacific Locksmith Association Contact: Stan Hauer (503)325-7334 Email [hauer@pacifier.com](mailto:hauer@pacifier.com) Contact: Ken Mead (503)873-6932

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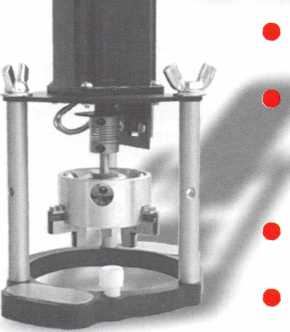
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CORE

**Meet the Candidates**

Several ALOA Board seats are open and will be voted on by proxy in the next couple of weeks. We wanted to take  
this opportunity to introduce you to the candidates for these positions, and to remind you that your official ballots  
(mailed separately) are due by June 6, 2001. Don't pass up your chance to vote!

**For the Office of President**

Randy L. Simpson, CML

Randy began locksmithing in 1973 and became an ALOA  
member in 1985. Randy served on the Security Professional  
Council from 1993-1995. Beginning in 1995 Randy served as  
director of ALOA's board, chair of Public Relations and a  
member of the Bylaws and Legislation committees as well as  
contributing articles to Keynotes. He currently is still serving as  
South Central Region Director. As owner operator of Baker's

Safe and Lock Co., Inc. located in Houston, Texas, Randy manages 25 employ-  
ees who perform skilled integrated security service for major corporate  
accounts, from mechanical hardware to integrated electronic access systems.  
Interest and a desire to be evolved in current technology is important to Randy.



Tom Ripp

Tom Ripp has been a locksmith since high school in Waunakee,  
Wisconsin. Tom worked at Wauna-Key Safe & Lock where he later  
acquired its commercial trade name. He is currently a locksmith-  
journey at the University of Wisconsin-Madison. Tom is serving  
his first term as North Central Director. "All of the candidates are  
good friends of mine, each with different life experience's and  
they all have something to bring to your A.L.O.A. board. I would

like to see improvements in the membership directory - .A.L.O.A. members list-  
ed by company name & what they specialize in. I would also like to see more  
manufactures & distributors listed with product name. With an improved direc-  
tory, the public could go to you for that unusual or hard to find brand. We should  
offer the public more service than non-member's."



**For the Office of Director**

**North Central Region**

Robert M. Dennee

Robert M. Dennee has filed nomination papers for the posi-  
tion of ALOA Board of Directors - North Central Region. Bob  
has owned and operated Ace Lock and Security - Marshfield,  
Wisconsin, for the past 20-plus years and is a member of  
ALOA in two different terms for more than 12 years, Save and  
Vault Technicians Association since 1994 and International  
Association of Investigative Locksmiths since 1999. Also in

the state of Wisconsin, there are two ALOA chapters, and since being geo-  
graphically in the middle, Bob has been active in both since their inception. The  
Fox Valley Chapter of ALOA since 1992 [board of directors), the Indianhead  
Chapter since 1994 [chapter chairman for two years). Some of the challenges  
before us as "professional security technicians" is to stay educated with the  
changes in technology, continue to market our services not only locally but to  
national service providers (NSP) and recognize that our competition is not  
those in our own camp, but larger associations that provide alarm and elec-  
tronic security services. My position, if elected, is to further promote ALOA in  
this new millennium at the various trade shows that represent the market areas  
that are more lucrative to our profession, support legislation that protects our  
services that we have provided in the access control systems, emergency lock-  
out services and low voltage security devices installation and last, but not least,  
be a representative voice of the North Central Region at ALOA Board Meetings.  
If you have any questions, feel free to e-mail me at [rdennee@marsh.pcpros.net](mailto:rdennee@marsh.pcpros.net)  
. Or I can be reached by calling 715/387-3064. Thank you in advance for your  
support.

Mark E. Blum, CML, CPS

Mark Blum, CM L,CPS has worked in the locksmithing since 1958  
Having worked with and in distribution and retail locksmith estab-  
lishments. He has been an active member of ALOA since 1973,  
Mark has taught at the ALOA conventions since 1987 and has  
also instructed for AS IS, as well as many regional locksmith asso-  
ciations. He was the recipient of the 1990 ACE Award which is

presented to the outstanding ALOA instructor of the year.



to employ five 1

John W. Soderland, CML, CMST

Hi, I am John Soderland, and I am running for North Central  
Director.

I started to learn locksmithing while in the U.S. Navy in 1970. My  
first job as a civilian was for a locksmith shop in Milwaukee,  
Wisconsin, where I worked for 16 years. In 1986, I started my  
own shop in the southwest area of Milwaukee, which has grown

ll-time locksmiths. We primarily service commercial and indus-

trial clients. I started attending ALOA conventions early in my career. I felt that  
then, as now, the classes are enjoyable and informative. The opportunities to  
meet other locksmiths across the country and world give me a fresh prospec-  
tive on my own business. I owe a large part of my success to the help I received  
from other members in this trade throughout the years. I am motivated to help  
others through the tough times I have already been through. I hope through my  
directorship to repay the kindness shown me. I offer my experience to help  
keep the association strong. I feel the future of ALOA lies in the sharing of  
knowledge and improvement of skills. My representation will reflect the desire  
of our members to advance their trade in the eyes of the public, retain their  
rightful place in the workforce and uphold the integrity as the cornerstone of  
this profession.

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Keynotes

May 2001

**Southeast Region**

"1 James R. Barnhardt, RL

I am running for the position of Southeast Region Director of ALOA. The following is a brief portrayal of my credentials BJfcB to fill this assignment:

been in the locksmith industry since 1975; been a member of ALOA since 1986;

•been a member of SAVTA since 1996;

■Vice President, Economy Lock and Key of Brandon, Inc. - 1995-1997

■President, Economy Lock and Key of Brandon, Inc. -1997 to the present •Member of Florida West Coast Locksmith Association, 2000;

■Voted 2nd vice president, 2001;

•ALOA volunteer 1997, 1998 and 1999;

■Spent six years as a volunteer firefighter.

I ask you, the members, to vote for a member who will take it upon one­self for you and vote for someone to represent your thoughts, ideas and feelings to the Board.



Don Rule’, CML

I have been an ALOA member since 1986. I own and operate Boardtown Locksmith. I am a past president and life member of the Louisiana-Mississippi Locksmith Association and the International Association of Investigative Locksmiths.

In 1989, I was awarded a convention scholarship and in 1996, was appointed as a member-at-large on the ALOA Board. I have served as a Southeast Region Director since 1997.

As a member of ALOA's Legislative Action Network [LAN], I have appeared before legislative committees representing your concerns. I believe ALOA should serve the locksmith by raising the level of professionalism through education. On that note, I sought and won election to the board of the ALOA Scholarship Foundation for a two-year term, which takes effect at the end of convention this summer.

In an effort to allow more member input, I formed a membership council solicited by e-mail for interested participants. Before each board meeting, ALOA members are polled for opinions. Participation is open to all southeast ALOA members.

I would like to continue to represent your interests as your Southeast Region Director. Your vote would be appreciated.

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Vincent Formon, CML, CPS

I have been an active member of ALOA since 1987. I am the owner/operator of Town & Country Locksmiths in Memphis, Tennessee. I am the former education chairman of the West Tennessee Chapter of ALOA and former treasurer to the Tri-State Locksmith

Association.

I am presently seeking the office of Southeast Director of ALOA and would appreciate your support. The three most significant things in real estate are "location, location and location," but in an organization such as ALOA, the three most important things are EDUCATION, EDUCATION, EDUCATION! I plan to make education my top priority and will work with the other Board members to make sure that we maintain good quality classes at affordable prices. Please participate in your association by placing your vote for Vincent Formon, CML, CPS and Don Rule', CML for Southeast Regional Directors. Thank you.



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***May 2001***

Keynotes

**Southwest Region**

|  |  |  |
| --- | --- | --- |
|  | Gordon R. Racine, CML |  |
|  | In October 1980,1 started my career in the locksmith pro­ |  |
|  | fession by opening a Lock & Key service out of my home. | f I  Ljk |
|  | 1 worked part time for seven years before my locksmith |
| business became so successful 1 either had to quite my |  |
|  | full time job or my locksmith business. 1 made the right choice! In 1984, 1 joined ALOA, member number 11643, and have attended many conventions and taken advan- 1 tage of the many classes offered. Over the years 1 have |  |

turned a dream into a reality and now have a locksmith & security company with 6 employees that services a trade area of over 50 miles with a population of about 35,000 people. I am currently in my second year as the Southwest Region Director of ALOA. Besides being a long time member of ALOA, I am a member and past president of the Central & Southern Colorado Locksmith Association, and member of the Rocky Mountain Locksmith Association. I believe in community participation and am a member and past president of the La Junta Kiwanis Club, as well as a member of La Junta Chamber of Commerce. Volunteering is my way of giving back to the community and the locksmith industry. We have a proud industry and history. Together it can only get better.

Julie McCluney, CRL

ALOA Member 22 years. President of Hill's Bros. Lock  
Safe, Inc. and Keedex, Inc. Graduate of Loyola Marymour  
University, Bachelor of Science - Business. Julie specialize  
in business management and marketing. Certified ALO,  
Instructor. Wants to bring creativity to the Board.



John A. Ilk, CRL

I am currently ALOA's Southwest Region Director current living in Tempe, Arizona. A former chairperson of the Gran Canyon Chapter of ALOA, my memberships include th President's Club and the Legislative Action Network. IV vision for ALOA revolves around education and communici tion. Considering the wide geographical ALOA membe ship base I see the need for more ACE classes and the nee for an expanded, enhanced and robust website that w

inspire members to communicate and enrich their lives.

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* Saturday Trade Show and Reception



• Servicing Aluminum Storefront Doors  
• Exit Devices

• Domestic and Foreign Automotive Lock "Field Service  
• "High Security Automotive Lock"Field Service"

• Basic Locksmithing

• Fundamental Impression and Picking Techniques



May 2001

10 | ***Keynotes***



TLA President, Patricia Titus presents the prestigious Longhorn Award to ALOA in recognition of dedication and service to the betterment of the locksmith industry.

On hand to receive the award were ALOA past president David Lowell and ALOA Northeast director Jack Magee, III.

Letter to Editor:

The letter from last month sent in by Chuck Pigue of Seattle Washington (April 2001, pg. 10), discusses a prob­lem about running into some asbestos at one of his job sites at a base.

For starters, they shouldn't have run into any asbestos; way back in the 1980s, all government agencies were to be inspect­ed and any asbestos was to be removed (EPA and DOD mandate). I know because I was in the service when the orders came down the pike.

I served as a hull technician, and part of my training was in asbestos removal, though we were limited to ship board emergency situations. Otherwise, we were to leave it to civilian contractors. As far as I'm concerned, tell the Navy to forget it. If the contractors forgot about the doors, it stands to reason they forgot about other areas as well. And as a lock­smith trained in this area, my answer about doing this sort of work would be "No." The reason is that I received my training in the Navy; to get such a civil­ian certification would cost a bundle and that's not counting the cost of the equip­ment that you need to get the job done. One other thing to remember is that short term exposure to this material (akin to coal dust) is not hazardous to your health. If asbestos problems like Mr. Pigue's persist, tell the bad guys that people who live in glass houses should­n't throw rocks.



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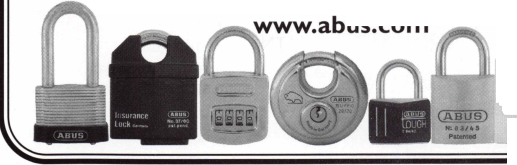
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***May 2001***

Keynotes



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CA Hanford

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MD Baltimore

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Israel

Netanva Jacob Jorgi

Mexico

Guadalajara Hector Q Reyes

Keynotes

May 2001

Kwok-kei Leung

Toshihiro AsANO

Henry W Raymond

Yuriko Yanai

Mary S Ohmit CPL

Charles C Robertson CML

Jack Hobbin

William B Neff CML

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Dana L Barnum CML

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Brian J Reetz

Maurice Benson

Walter W Lascar RL

William J McElheney CML

Jon B Griswold CML

Russell P Fuller CRL

Daniel L Landry Jr

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May 200 **7**

Keynotes

How can I join the President’s Club?

You can earn a membership in this prestigious club by recruiting just 10 new members for ALOA.

\*Any ALOA member may participate.

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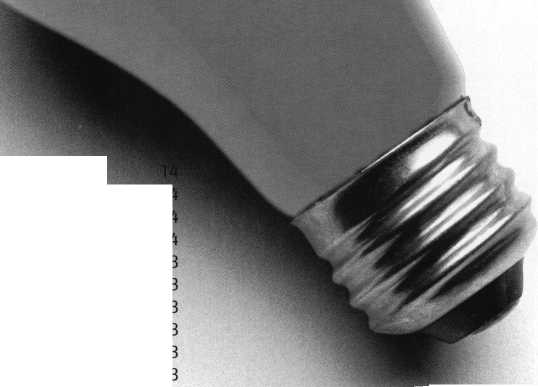
When you recruit 10 members, you receive a handsome blue blazer with a President's Club crest. For each additional five members you recruit, you receive a lapel pin with gold-filled numbers, indicating, your recruit­ing successes.

You also get the satisifaction of knowing that you are helping your association, helping your industry grow, and you are helping fellow locksmiths achieve success.

How do I get started?

Contact the ALOA office for a supply of applications (800) 532-ALOA or FAX (214) 827-1810. One President's Club credit is awarded for each new applicant. Credit is awarded only after the membership application is approved. However, the credit will apply for the period in which the application is received. Failure to identify yourself as the sponsor on the application form at the time it is submitted to ALOA for processing will forfeit any credit.

\*ALOA Board of Directors not eligible for membership in the President's Club



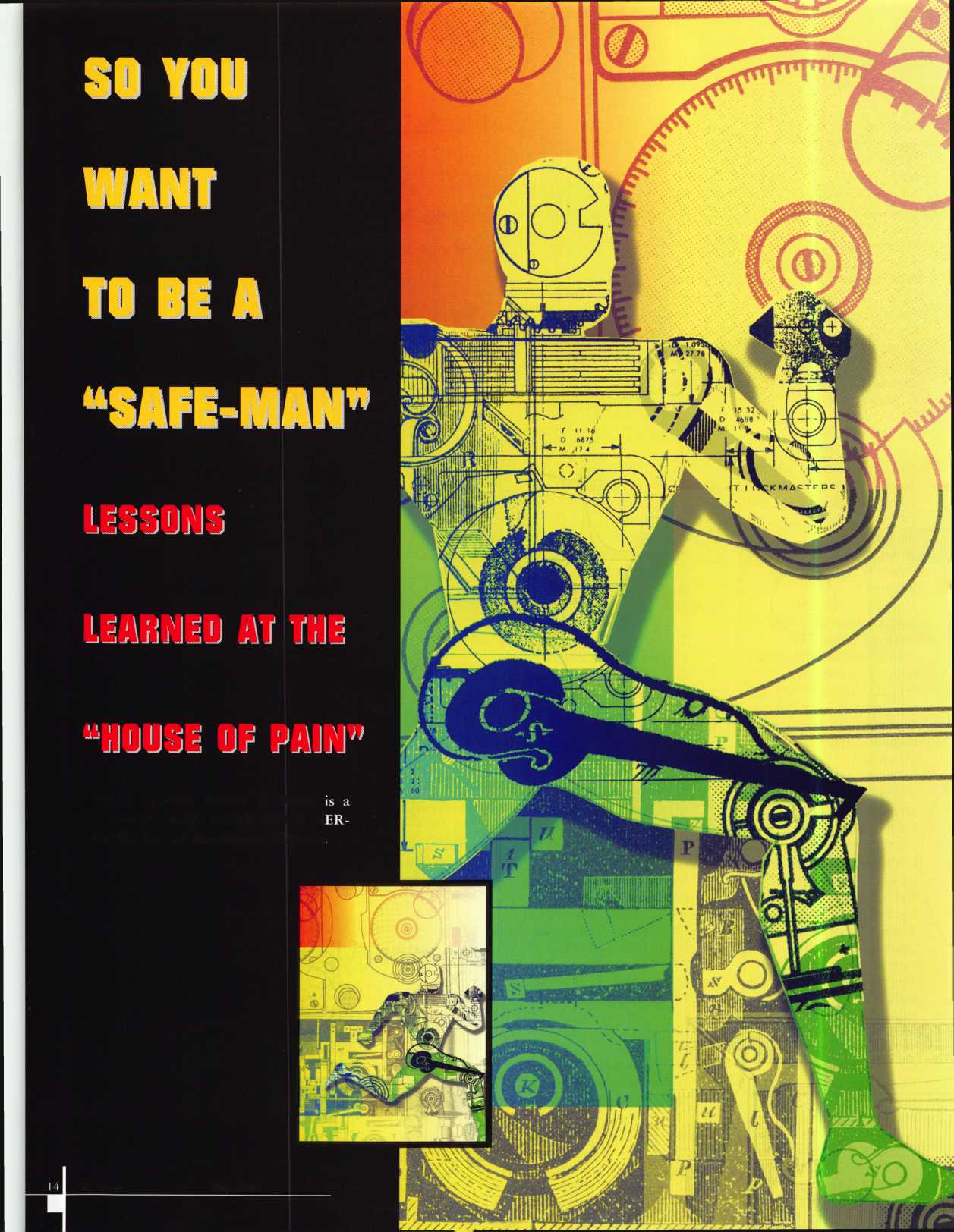
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ALOA member Walter E. Webb i locksmith with BANK-LOCK S VICES, Inc. of Alexandria, Virginia.

***Keynotes***

***May 2001***



TT n the Trinidad section of northeast ■ Washington D.C., there is a small two- JL story red brick firehouse that is over 70 years old. This is one of the nations busiest firehouses with fire trucks going out the door on an average of 40 times a day. At this firehouse is stationed the nation's busiest engine company, and as a newly promoted lieutenant, I had just been assign to it. As I walked in the station for my first tour of duty, I was met by Charlie, the wagon driver, “Hey ain’t you a lock­smith on the side?” “On the side” is fire department slang for part-time work, and after hesitantly replying yes, “Well maybe you can open the ol’safe ...or should we just add your name to the long list of failures?” This sounded like a challenge to me; only problem was that I had never done any type of safe work.

ew hours of getting settled in, I

»k at the ol’safe. It is located in a

on the ground floor. From the

several people had also tried to

from the condition it is in, they

) have less safe experience than  
was possible. Over the years, it  
ainted silver several times. The

an” had removed anything and

[ that could be taken off the out-

large box of parts sat on the

first step was to get everything

j^ther. It took me several hours to

thing back in its correct place,

and the lads started to have their doubts  
about my safe expertise. I also found out  
that the handle was missing; this was not  
starting out the way I had hoped.

I called all the past old timers who had been assigned to the house over the years and asked what they knew about the ol’safe. The short of it was that it had not been opened in at least 25 to 30 years, and numerous attempts had been made by sev­eral others over the years to get it open without success. In the early 1970’s, one of the lads had gone down the street to a local locksmith shop and asked about opening the safe. The quoted price was $200, but there was not that much interest in finding out what was in it. So on to step two, I

called several locksmith friends. Basically I found out that I had to identify the ol’safe before anyone could recommend an open­ing suggestion. I went back through every past issue of all the locksmithing magazines at the shop and home, reading all the arti­cles dealing with safes, and was I surprised to learn how much I did not know about them. I took a couple of pictures and start­ed carrying them around with me, and believe me, I asked anyone who would stand still for two minutes during classes and association meetings about the safe. Over the next several months I purchased just about every book on safes that I could find. I learned about hinges, dials, sizing, shape, “T” handles, “L” handles, etc. Finally, I found a similar safe in SAFE OPENING Volume IV by Dave McOmie, and, I believe, the ol'safe is a HERRING Jeweler’ Chest.

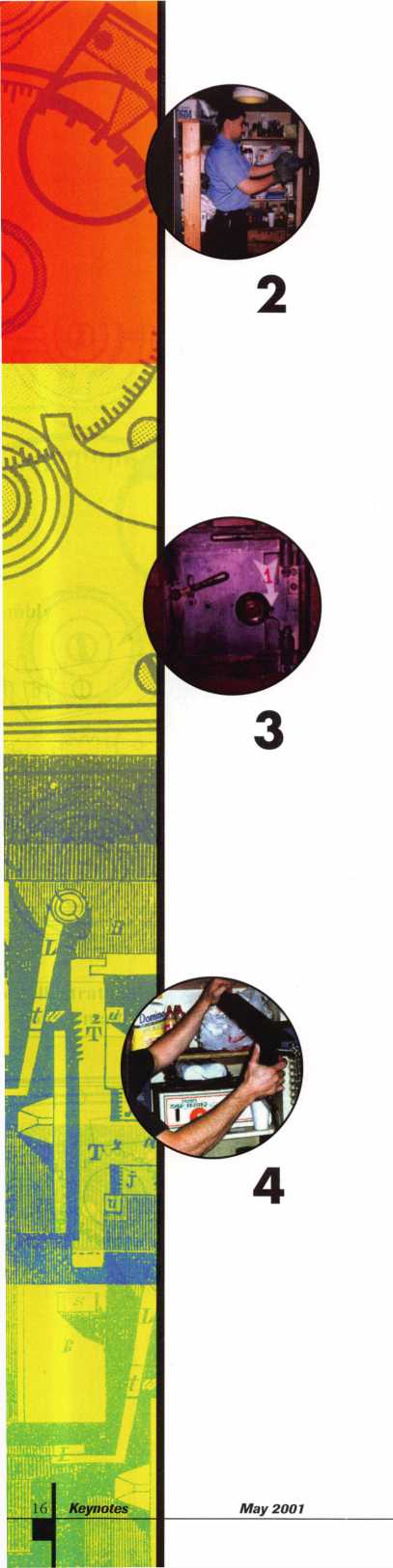
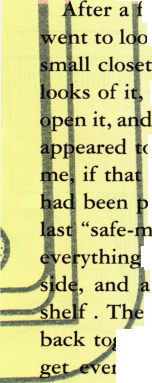
LESSON ONE: when you are confronted with a problem or a job that you do not know how to do, call someone, ask ques­tions, look it up in trade journals and books. That is the difference between a professional and everyone else.

Step three was to learn more about safes. I took a class on basic safe servicing. During the class it was suggested that with a safe that old I might be able to manipu­late it open. What is that? So I bought more books and then I went and took a hands-on class in manipulation. I then spent several hours failing to feel something that was so easy to do in the class. Back to the drawing board. Next suggestion was to use audio amplifier, so I borrowed one. I waited till late at night one tour to try and hear some­thing that I had failed to feel. It was amaz­ing what I could hear, the flourescent light fixture buzzzzing, the traffic passing by outside (including several horns blowing), and then an emergency response came over the vocal alarm. After a couple hours the ringing in my ears stopped.

Picture 1: The Polaroid that I showed everyone.

LESSON TWO: Read and understand all the directions before using any tools.

May 2001



Well back to step two, and back to asking questions. With more reading, I found out that I had a rare Dextor lock on the ol’safe. This type of lock has a five number combination, the fourth number is pre set to line up a split driver, and is very hard to manipulate open. At this point I have decided that it is time to drill this safe, and I did not let the fact that I had never done this before detour the planning. I went and got several advertised “drill through anything bits," and after some more reading I made some educated guesses on just how thick this door should be and where to drill, we started. As I stated earlier, this safe is in a small closet, and one could only stand the noise for about ten minutes. There is some­thing to be said for the hearing protection recommended in the drill’s directions. So the lads all took turns in the hole. Well after about ten hours of drilling and around ten drill bits later we had a nice hole, and it was almost three inches deep­er than I guessed.

Picture 2: “Gordo” and his 14 pound guns taking a turn in the hole.

Picture 3: The first hole completed!

Now what? Ask more questions. “Use a scope, line up the wheels and transfer the numbers to zero." I can do this, so I borrowed a scope. Next tour I looked in the hole, but I do not see any wheels, in fact I do not see anything. At this point it is a good time to point out lesson two again. Also I have decided to drill another hole, but the lads are quickly losing some faith in my skills.” Let me get this right - the book said drill here, but you think you want to drill over here? Have you ever done this before?” Well, at this point I explain I have never done any safe work.

LESSON THREE: Never give up!

Back to the hole, and after twelve hours of drilling (I lost count of the number of drill bits) we had a hole about one inch deep, only three more inches to go. I called more people; one reply, “It’s supposed to be hard to drill a hole in, that’s why they call it a safe.” I am sure that in a safe this old there cannot be any hard plate ...right? Well the next suggestion is we need more pushing power... right, we have already drilled one hole without a rig. “Well even a blind squirrel finds a nut once in a while ....” So I build a simple rig out of two inch angle iron and chain.

LESSON FOUR: Frustration is the true mother of inventions. Picture 4: “JD” shows off the home-made drill rig.

Well the lads have started betting against a successful opening. We start drilling again, and we are through in about two hours, and with only one drill bit. It is amazing how well things work when they are done the way they are supposed to be done.

Picture 5: The second hole is completed!

Well my theory is to punch the bolt and retract the handle, and with some more educated guesses I am sure I have figured out which way the handle needs to be turned. As I hit the punch, one of the lads is applying pressure to my makeshift han­dle. After several good hits and nothing is happening comes the reply, “Hey it sure don’t turn far that way, but it does go almost half way around towards the other direction ....” Well, the ol’safe was open ....and empty except for letter of resigna­tion dated in 1949.

Picture 6: It is open! ....and look in the top right hand corner of the lock case.

It had been drilled before. Also notice that the first hole was in the correct loca­tion.

Well much to my surprise, the first drilled hole was exactly where it needed to be ....so how come I could not see any­thing? When I removed the lock case cover I found out that the shavings had filled in the hole. If I had known, I could have probably just blown in the hole and cleared the hole.

LESSON FIVE: Know what you are look­ing for, and what to do when you do not find it.

It sure would have saved me a whole bunch of time and money. From the looks of it, it had been drilled open before in the upper right hand corner which would allow you to line up the gates with the fence.

Picture 7: The safe back in service with a new handle and Unican lock. This also took a while, and another bunch of ques­

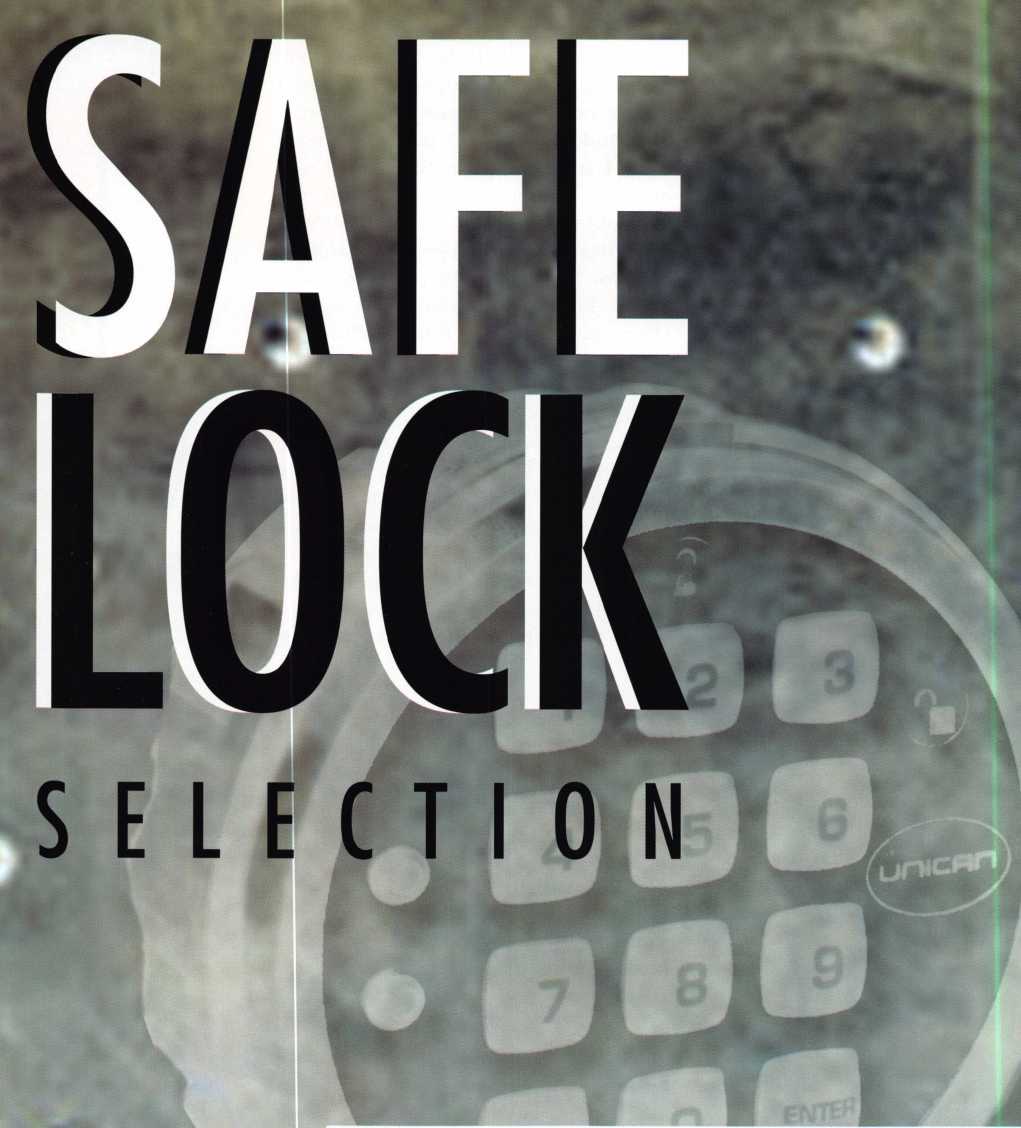
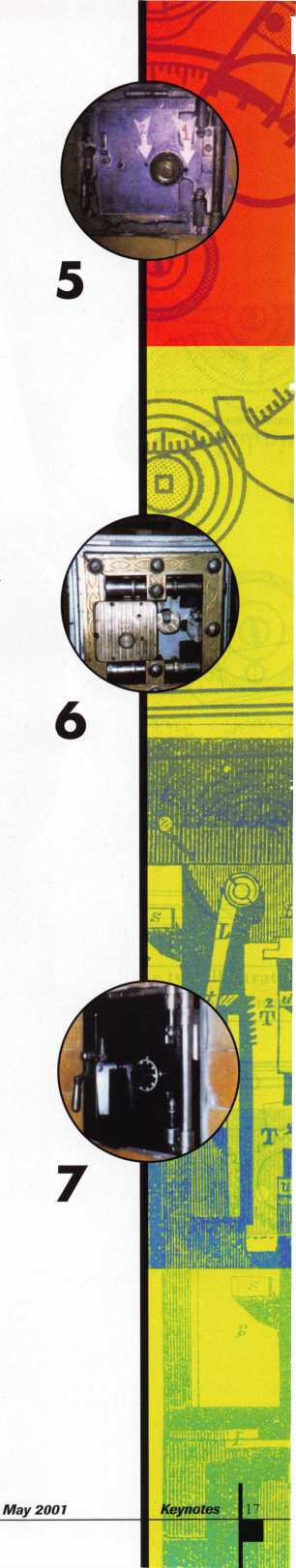
tions, but that is another article ....

The door was repaired, painted and it has a new handle and new Unican lock. This also took a while to complete and involved asking more questions, but it is back in service. Well the whole job took me about two years. I spent hundreds of dollars on books, classes, and assorted tools and drill bits. It's probably a good thing I am a firefighter full time; I may need a little more experience before I hang out my “SAFE-MAN” shingle. Well some thanks are in order; to Mr. Roland Phillips, Mr. Philip Rovenolt, Mr. Don Shiles, Mr. Luke Dennis, Mr. Donald Drury, and Mr. John Burger who were kind enough give me several private con­sultations. To Mr. Jim Workman of Blaydes Lock Co., thankfully they where just up the road from the station. To the lads of Engine Company #10 who despite an average of 30 runs a day were always willing to lend a hand. And last but not least, to Frank, Harry, Tom, and Toby of Bank-Lock Services in Alexandria who had to listen to every detail every time I was at the shop, plus they lent me all the tools

FINAL LESSON: Remember to thank everyone who helped you, and remember this when someone calls you with a ques­tion!

**About the Author:**

ALOA member Walter E. Webb is a lock­smith with BANK-LOCK SERVICES, Inc. of Alexandria, Virginia.



ELECTRONIC



Keynotes



May2001

1. can quickly think of over 30 electronic safe locks on the market today. These are locks that will retrofit the standard footprint for mechanical locks and dial rings. The number grows further if I count the electronic safe locks that are incor­porated into the safe door design such as you find on Sentry, hotel safes and many of the small imported home safes. What is my point? Well, for those that are consid­ering doing work on safes and especially on electronic safe locks the question is where to begin. How does one begin to learn about electronic safe locks? Is there a class or school that can teach all of this? No!

I think the best approach to electronic safe locks today is learning about those models that you are most likely to encounter in your day-to-day work. I am referring to the locks you see on show room safes, in the literature from the safe manufacturers as options on their products and a few additional locks worth considering as replacements onto existing safes.

Using this approach you can begin building a reference book. I suggest you label a thick 3-ring binder, insert some dividers with identifying tabs and begin to collect informa­tion on each model lock. I have included a chart of 1 3 of the most popular locks that sell to the locksmith for less than $200 and range down to about the $65 level. Included in this chart are models that have become standards from the safe companies and some of the newest models on the mar­ket. You can use this chart as the basis to start you reference book and begin to collect operating instructions, program­ming instructions, installation instructions, magazine articles, templates and information you have printed from the internet sites. One valuable site to visit is the Clear Star Security Network where you can access valuable tips and other information from its members on the Safe Tech Forum that is the official site of SAVTA. The members of Clear Star are sharing information on all models of electronic safe locks almost on a daily basis. Tips on troubleshooting and drill points for when total failure occurs and the safe must be drilled.

Think of electronic safe locks as you would after market options for an automobile. You would select from many dif­ferent styles of stereo models based on many factors. Cost, performance and features would undoubtedly be the main factors in your consideration before making the purchase. We have established the cost range we are considering and we will assume similar performance and dependability. Features are the remaining factor and the chart will supply enough information for you to narrow the choices to just a couple. What the chart does not provide you with is the smallest details and here you will have to contact a distribu­tor or perhaps the factory to learn more.

H

The features that are included in the chart need explain­ing so we all agree to what the descriptions mean. The chart uses the term bolt action and this is asking whether the bolt requires retraction and extension by means of the oper­ator turning the outside housing or if the bolt will be auto­matic. While manual bolt retraction is more conducive to attachments the automatic ensures the operator never leaves a safe unlocked. It is easy for someone to close the door, turn the handle and forget at the end of the day to lock the lock by rotating the outside housing.

A field convertible bolt is a patented feature of the llco 51 5 model whereas the bolt can be set to deadbolt or spring bolt action. The removal of a steel dowel from the end of the bolt converts the bolt to spring bolt action.

The quantity of users refers to the number of combinations that will open the lock. In some locks this will include the master code and in some locks the master code, super mas­ter code and other names does not operate the lock.

Time delay is self-explanatory but the delay opening win­dow is the period of time at the end of the time delay peri­od in which the operator must reenter their code in order to open the lock. If this time frame (opening window) expires without the code being entered the lock will reset to the idle condition and the time delay period will have to be started once again. Notice that some locks have a set value for the delay opening window but most allow for a choice of time values to be programmed.

Dual custody mode is a feature whereas the lock will require two codes to be entered before the lock will open. When dual custody is coupled with time delay, only one code is required to start the time delay but two codes are required to be entered during the delay opening window before the lock will open. Some locks will require the couri­er or cash pickup service to be included in dual custody when that feature is activated.

The duress alarm interface is often called silent alarm mode also and simply means that the lock can be connect­ed to the building alarm system. In the event of an emer­gency, namely a robbery, the code can be altered and the alarm is 'Tripped" thereby notifying authorities or the moni­toring service.

A lock disable input allows the operator to disable the lock or "shut it down" and one method is through the connection to the alarm system. Once the alarm system is turned on (armed) the locks power circuit is disrupted and hence the keypad rendered "dead" until the alarm system is properly turned off.

The bolt sensor switch is an optional switch that monitors the locks bolt position, whether extended or retracted, and either opens or closes a circuit. The status of the circuit will

***May 2001***

Keynotes

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Mas-Hamilton | Mas-Hamilton | llco | llco | LaGard | LaGard | LaGard |
|  | Model 50/D50 | Auditon 100 | Model 505 | Model 515 | ComboGard | Safe Gard | LG Basic |
| UL Listing | Type 1 | Typel | no | Type 1 | Type 1 | Type 1 | Type 1 |
| Access Method | 6- digit comb. | 2- digit ID plus 6-digit | 4 to 7 digit comb. | ID plus 6-digit comb. | 6- digit comb. | 6- digit comb. | 6- digit comb. |
| Qty of iocks/doors controlled | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bolt action | manual or automatic | manual or automatic | automatic only | manual only | manual or automatic | automatic only | automatic only |
| Spindless Option | yes | yes | yes | no | optional | yes | yes |
| Field Convertible Bolt | no | no | no | yes | no | no | no |
| Power Source | self- powered | self-powered | batteries | batteries | batteries | batteries | batteries |
| Key Pad | 12-button tactile | 12-button tactile | 12- button tactile | 12-button tactile | 12- button tactile | 12- button tactile | 12- button tactile |
| Display | 2 LEDs | 2 LEDs | 2 LEDs | 2 LEDs | 1 LED | 1 LED | 1 LED |
| Available Housinqs | Round, Vertical, or low-Proflle | Round, Vertical, or low-Profile | Round | Round | Low-Profile | Round | Round |
| City of Users | 1 | 5 | 9 | 10 | 2 | 2 | 2 |
| Time Delay | 5-99 min on D50 only | 5-99 minutes | 1-15 minutes | 1-99 minutes | 1-99 minutes | 1-99 minutes | no |
| Delay opening window | 1-20 min on D50 only | 1 -20 minutes | 3 minutes | 1-9 minutes | 1-19 minutes | 1-19 minutes | no |
| Time Lock Control | no | no | no | no | no | no | no |
| Dual Custody Mode | yes | yes | yes | yes | programmable | programmable | no |
| Wrong Try Lockout | yes | yes | yes | yes | yes | yes | yes |
| Duress Alarm Interface | no | optional | no | 515Donly | optional | optional | no |
| Lock Disable Input | no | optional | no | no | optional | optional | no |
| Bolt Position Sensor | optional | optional | no | yes | optional | optional | optional |
| Courier Override | no | yes | no | yes | programmable | programmable | n/a |
| Audit Trail | no | yes (10 events} | no | no | no | no | no |
| Audit Date &Time Stamped | n/a | no | n/a | n/a | n/a | n/a | n/a |
| Audit Report Method | n/a | to PC via Smart Key | n/a | n/a | n/a | n/a | n/a |
| Superviser/Subordinate Mode | no | yes | no | yes | Programmable | Programmable | no |
| Master Code | yes |  | yes | yes | m | yes | no |

sound an alarm, turn on a warning light, sound a buzzer, trigger the silent alarm, signal the CCTV camera and recorder or activate some other device on the circuit. This option can be quite valuable in certain situations.

Courier override is another name for time delay over­ride and is often used when a business uses the services of a courier service such as Wells Lomas or Brinks for their cash pickup. The courier service is most vulnerable when the truck is stopped and personnel are "on the ground". For this reason couriers do not want to wait for time delay to expire and leave the truck sitting for the 15 minutes or so. Time delay also cuts into the total available for the courier to run their route. Imagine if each and every pick up location was on a 15-minute time delay. At the end of the day the cost of the service would be forced to rise dramatically.

You will notice that a couple of the locks offer audit trail and this feature is important to some customers. I have been told that for audit trail to be admissible in a court case there must be a time and date stamp in the events record. I am not qualified to render any legal advice so my best advice to you is to check on this in your area and be in the know for when the question arises from your cus­tomer, and it will. One of the locks in the chart reports the audit via a Smart Key to the PC and this simply means

a Dallas chip key downloads the audit trail, and then later uploads that information to the software in the com­puter. The other lock reports the audit trail directly to a laptop computer by attaching a cable.

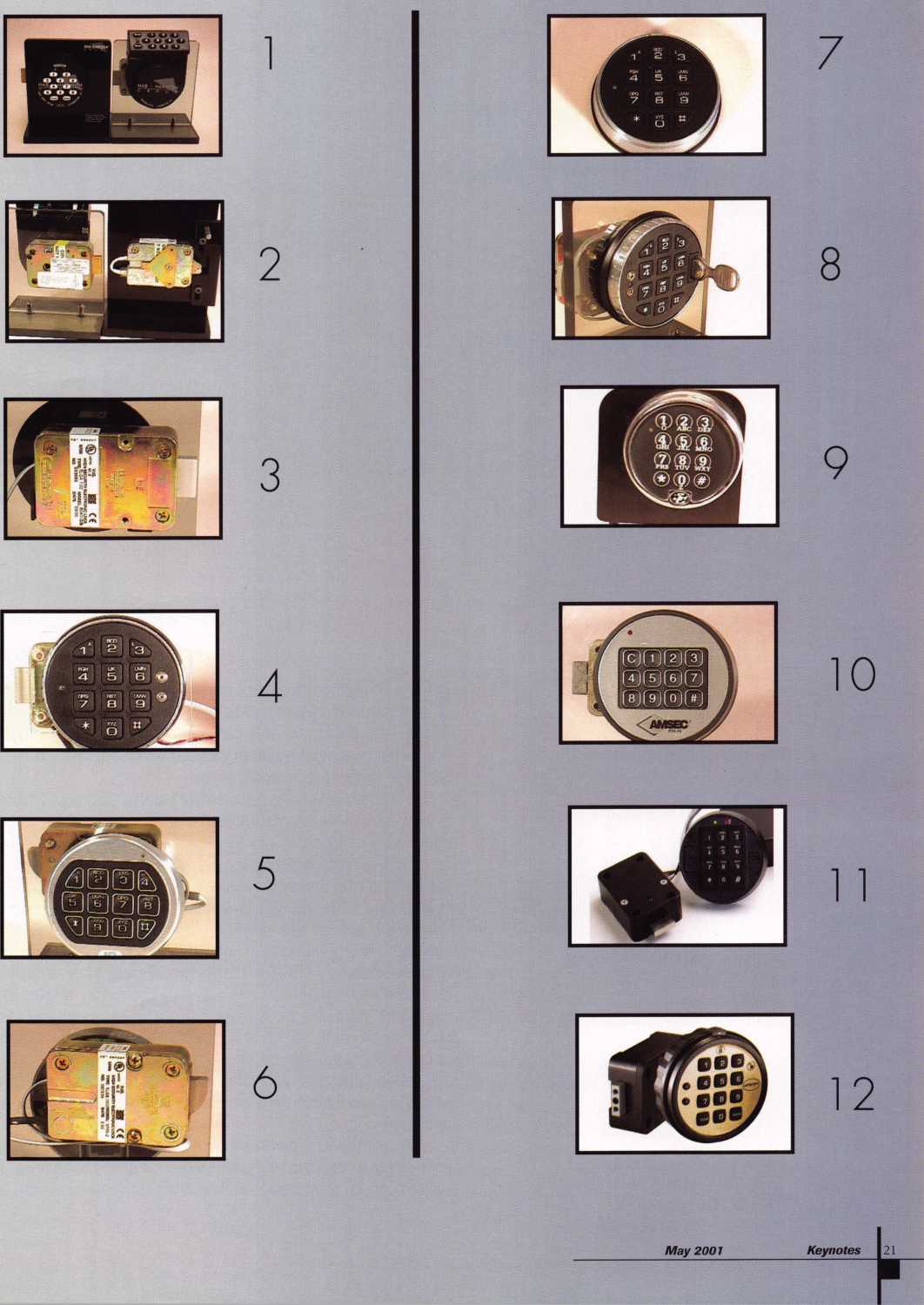
You will want to keep in mind that many of the locks require extras to be purchased when certain features are in use or to program the locks to some features. These extras may be in the form of software, Dallas chip keys, cables, alarm boxes, attachments or require a computer. Some locks may be programmed by the distributor to "turn on" some of the features. These are some of the details you will want to learn and record in your reference binder. Also, you will want to know that locks have what I call personalities from one manufacturer to another. By this I mean that some locks will allow the buttons to be pressed more rapidly than another brand, different brands have different factory codes and programming steps dif­fer from brand to brand.

I hope it goes without saying (but I will say it anyway) that taking classes is the most important step to learning about electronic safe locks. You will find these classes offered by your local or state association in addition to the ALOA convention this July in Baltimore. I hope I see you there.

Keynotes

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CHART IMAGES



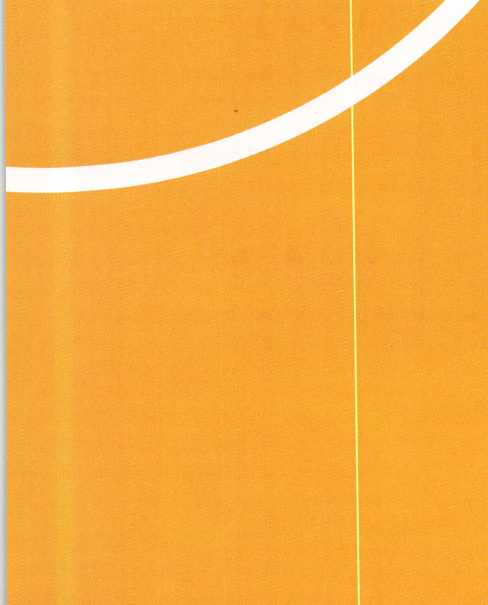
I

f you do automotive work and have not had the opportunity to expe-  
rience the GM MATS column, you will eventually. Of course, the first  
time you encounter this column, the vehicle will be parked with the

front wheels against a parking lot barrier or against a curb. No problem,  
with this technique, it won’t matter.

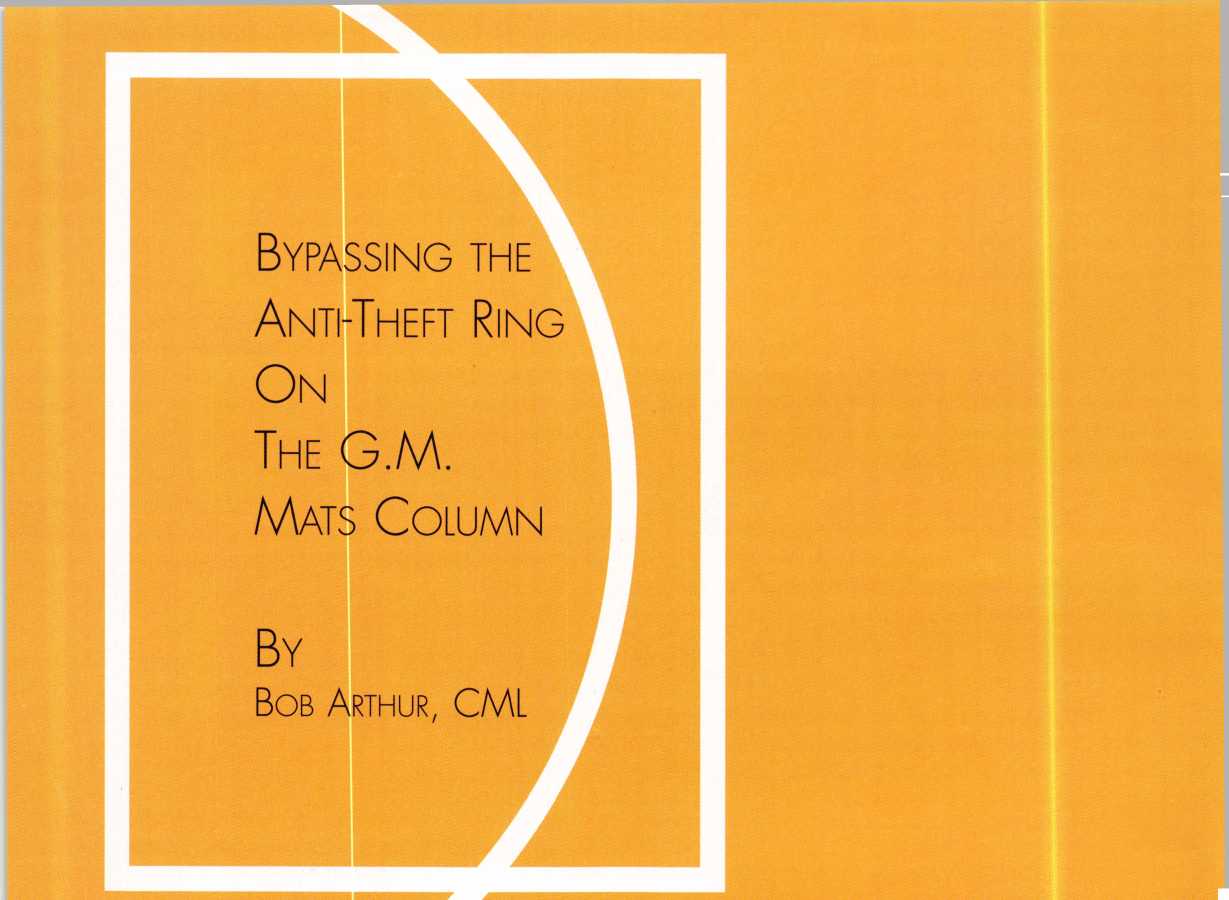
The column looks almost identical to the standard GM tilt column. It is, however, quite different internally. The differences are all tied to the anti-theft system built into this column by the manufacturer. There are some major parts difference. An anti-theft ring has been installed over the locking ring beneath the steering wheel to restrict access to the lock mechanism. The ignition lock itself has been redesigned with a larger lug at the pin of the retaining bolt opening. Strattec part number 703342. This column also utilizes a redesigned inner lock housing, which accepts an anti-theft collar preventing easy access to the sector gear and rack system (this is normally broken by thieves during a vehi­cle theft.) Some of the Minivans are also equipped with what is called an interlock cable, which is connected to the ignition linkage rod. Most of these parts will not be encountered by locksmiths, only by the peo­ple making the actual column repairs. The parts normally associated with the locksmith during normal service will be the lock itself, and the anti-theft ring.

Although I do the actual column repairs to the vehicles that have been stolen, the technique I have learned to bypass this anti-theft system can be used by any locksmith. Once you have learned to use this

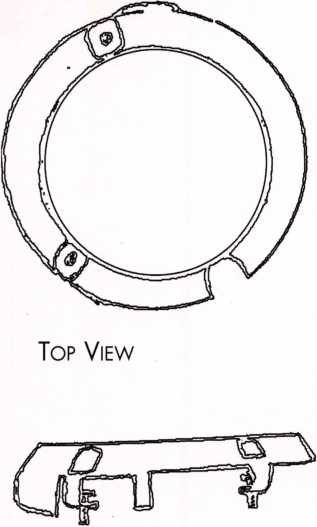


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Anti - Theft Ring



Side View

technique, and have done it a couple of times, you will find that servicing this lock can be a breeze. It also has the added bonus of dazzling your cus­tomer and giving a professional air to your service. This allows you to charge more for the service, and leaves your customer feeling that he truly hired the services of a professional. Lets face it: Professionalism is what separates us from the retired factory worker that decides to supplement his income by becoming a part time locksmith. Yes, he may do it cheap, but can he do it right? You can assure your customer that you can repair his problem without further damage to his column.

The GM MATS [Mechanical Anti-Theft System) column is used on the 1993-1994 Trucks, Mini-Vans, and Sport Utility Vehicles. This Column is equipped with an Anti-Theft ring located directly beneath the steering wheel. This part is held in place by two Torx head screws, and covers the standard locking plate used on most GM vehicles. In order to access these mounting screws, the steering wheel must be turned 180 degrees from top dead center.

If you do not have a working key, or the ignition lock is damaged, it can be very difficult to align the locking plate into the proper position to access these screws. The locking plate on this particular column has two cutouts are larger than the locking grooves, and are designed to allow access to these screws. When the wheel is turned to the proper position, the large openings in this locking plate are aligned over the screws at approximately the 8 and 11 o'clock position.

The problem develops when the lock cannot be turned, and the steering wheel moved to the proper position. When the steering wheel is removed, you are faced with this anti-theft ring. Directly beneath the anti­theft ring, the locking plate is being held in the locked position by the lock­ing pin. Although there is an access hole in this anti-theft ring to access the locking pin, without the steering wheel on, how do we turn the shaft. ? There are several ways, and several tools designed to do this; however, I have found the following to be the simplest.

One bolt connects the lower end of the column shaft to the shaft coupling. This is normally located under the hood where the column comes through the firewall. It will either be 15mm, 13mm, or 7/16 in size. Let us take a step - by - step walkthrough this procedure. From pulling the wheel to replacing the lock, we shall try to cover each step. Once you have done one in this manner, I believe you will find it the easiest and fastest way to bypass this obstacle.

Begin by removing the steering wheel. The horn pad will be attached by either two 9/32 screws, or simply pulls off. Disconnect the horn wire by pushing in and turning to the left. The wire is under spring tension, and when turned as described, will simply pop up out of the hole. Remove the 13/16 nut, attach your wheel puller, and pull the steering wheel. Once removed, you will see the anti-theft ring covering the column locking plate. Next, raise the hood, and locate the coupling connecting the intermediate shaft to the lower column shaft. Remove the bolt connecting the coupling to the column shaft. Once the bolt is removed, tap down on the coupling with a small hammer, until the coupling slides off the column. If you fear getting the shaft and coupling back together in the wrong position, simply make a mark on the surface of the column shaft, just above the coupling, this will assure proper alignment when you reassemble. Once the coupling has been separated from the column, you are ready to continue.

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Go back to the top end of the column, and seat yourself as if you were getting ready to drive the vehicle. Looking down upon the column, you will notice and opening in the anti-theft ring in the upper left, or 11 o' clock posi­tion. Using a hook tool, or an ice pick bent about 1/2 inch on the end, place the hook through this opening facing to the left. By fishing around a little, you can find the locking pin where it protrudes through one of the grooves on the locking plate. Work the tool around until you can depress this locking pin. You will be able to feel spring tension pushing the pin up. When you feel the spring pushing against you, you will know you are on the top of this locking pin. Depress the pin, and with your other hand, turn screws on the anti-theft ring. (These screws DO NOT COME OUT.) The screws are designed to stay in the ring. Once the screws have been completely loosened, the anti-theft ring can be lifted off. Since the column has been disconnected from the lower shaft, the column shaft will turn easily with your thumb and fingers.

Once the anti-theft ring has been removed, you may then remove the locking plate using your compression tool. The locking plate is held to the shaft by a snap ring. It is only necessary to compress the locking plate enough to remove this retainer. Forcing the locking plate down too far can result in a bent locking ring, broken canceling cam, or broken turn switch. I have found that by applying just enough compression to allow a thin blade screwdriver to be placed under one side of the snap ring and applying slight pressure, a hook tool can then be used to pop the snap ring out of its groove. Remove your compression tool and slide the snap ring off the shaft. The locking plate can now be removed. The horn/canceling cam will usually lift off with the locking plate. Next, remove the pivot arm connection (the turn switch to the wiper switch.) This is located on the left side of the turn switch and will be held in place with a flat Phillips head screw. The four-way flasher button is removed next. It is held in place by a small Phillips head screw going right down the center of the button. Note: The flasher button assembly consists of an outer shell, center button, spring and screw. Take care not to lose any of these parts, as the spring has a tendency to fly out once the assembly is removed. The turn signal switch is held in place by either three Phillips head, (most common) or three torx head screws. These screws are visible at the #1, #9 and 5 o' clock positions. You will have to pivot the turn signal cam upward toward the top of the column to gain access to the 5 o' clock screw. Once these three screws have been removed, use your hook tool to gently work the turn switch up and out away from the column, it may be necessary to remove the lower access trim panel and unplug the switch harness. This harness is normally snapped into a bracket on the right side of the column jacket. Push the harness con­nector up and out of the bracket; you can then unplug the harness, and the extra wire will allow the switch to be pulled up and out of the way. If this is required, remember to reconnect the harness and reinstall it into the bracket before finishing the job.

The key buzzer actuator has been redesigned on these models, and are easily broken. The spring on the bottom is no longer accessible with a hook tool or bend paper clip. This part can best be removed by inserting a nar­row flat bladed screwdriver up through the flasher button opening on the col­umn, sliding it under the plastic plate on the right side of the actuator, and gently prying the actuator from the column. Once the buzzer actuator has been removed, the torx head retainer bolt for the lock becomes visible. At this point, you may remove this bolt, and the lock can be removed for service or replacement.

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After replacing the lock, many locksmiths have trouble inserting the buzzer actuator back into the column. This can be done easiest by removing the key from the lock, or turning the lock to the on position. The buzzer is operated by the small plas­tic tab located on the bottom side of the lock cylinder. This plas­tic tab will slide up into the lock, allowing the buzzer actuator to enter the column. If, however, the key is in the lock, and in the off position, this plastic tab will not slide up into the lock, mak­ing it nearly impossible to insert the buzzer actuator.

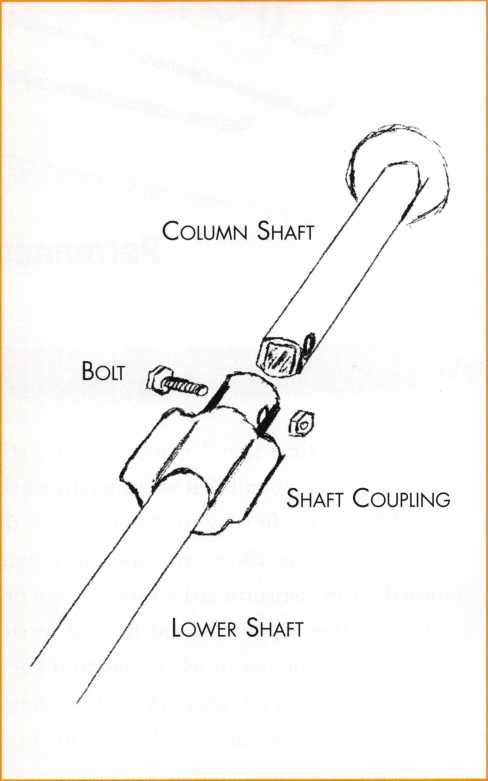
Once the actuator has been installed, gently slide the turn switch back into place and install the three mounting screws. Next, install the flasher button assembly, and install the pivot arm connecting the turn and wiper switches. Replace the canceling cam and install the locking plate using your compres­sion tool. Align the locking plate openings for your anti-theft ring screws, and replace the anti-theft ring. You may now insert the key, turn it to the unlocked or on position, and turn the shaft back to the original alignment position with the lower coupling.

Once you have aligned the column shaft with the cou­pling, gently tap the coupling back onto the column shaft. Once the holes are aligned, replace the bolt and tighten securely. You may now replace the steering wheel, taking care to align the mark on the wheel with the mark on the shaft. One final tip that you may find helpful. On most of the truck steering wheels, it is very difficult to re-insert the horn wire after the wheel has been installed. If you unclip the wire from the horn pad, you can insert it into the canceling cam prior to installing the wheel. Work the wire through it’s hole, as you are installing the steering wheel. After the wheel has been replaced, you need only clip the wire back on the horn pad, and reattach the horn pad.

Once the job has been completed, I recommend starting the vehicle, and turning the wheels straight. This assures that everything is in proper alignment. I also check the operation of all switches and levers as well as the horn. Once you have done this procedure and understand the basics of the column, you will fly through this operation.

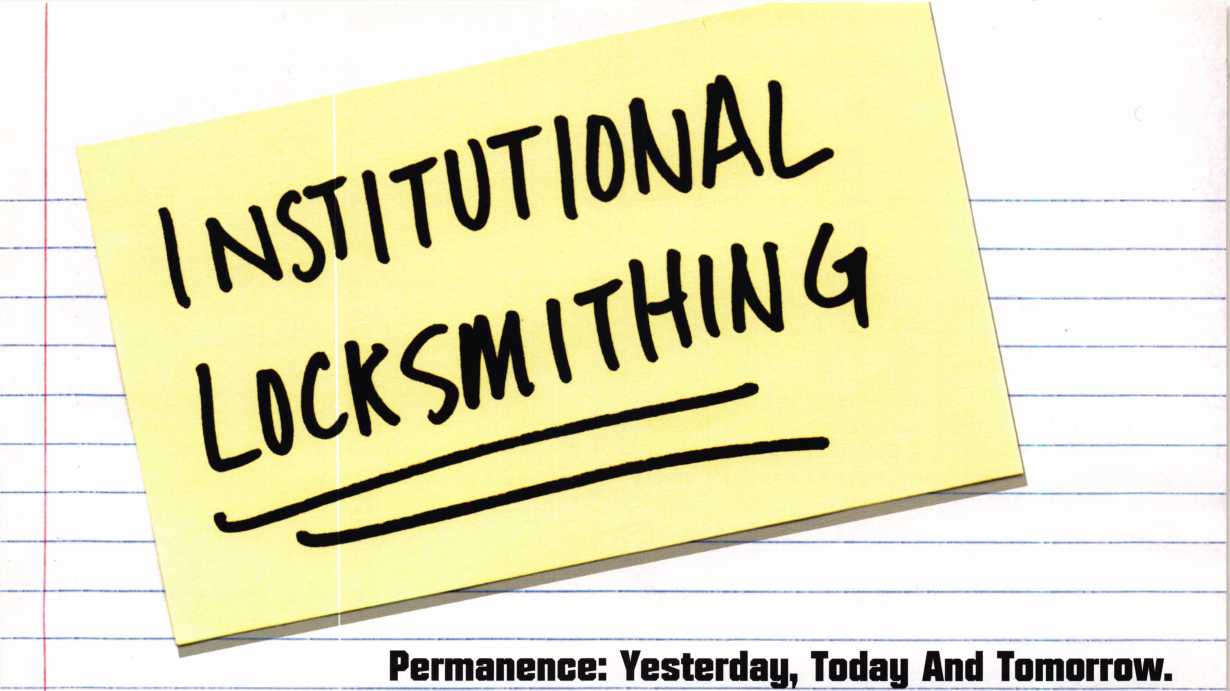
This procedure sounds complicated, but it really isn’t. Once you have bypassed this anti-theft system using this proce­dure, you will find it to be fast and simple. Time is money to all of us, and fighting with a manufacturer’s obstacle can cost us a lot of time. Give it a try, I think you will be surprised.

Column Shaft  
Coupling



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Ulo

uring the time that I worked as an institutional al locksmith work is the hardware itself, and a lot of

"locksmith, I found that we generally worked with the time, that is unique also.

Grade 1 hardware, (if we were doing it right, thafis)7T

also

imposed on an institutional locksmith. Not only is the (or any institutional maintenance worker) has to learn

hardware different, but also the level of service is dif- to deal with is the number of supervisors that you ferent. Often, the barof whar constitutes acccptable must heed. At a school, not only are you working for performance is much highen JPerfection.some.timesJs your, immediate -boss JauL eyery ieacher, and adminis-

not good enough because it takes too long to accom- trator, and department head that you work around

thinks that he or she is your boss, also. From what I  
have learned over the years, it is not a lot different in

plish, yet perfection is all that will be accepted.

In institutional work especially, the customers are dif- a hospital, or any other institution. There are internal ferent. My entire life has been spent in one form of politics and primadonnas that a worker must be mind-

service work or another. I have always dealt with cus- ful of when doing institutional work. The trick is to

customer service. Institutional work is quite different ignore, and how to do it without offending that per- than anything else that I ever did. The only common- son. ality between generaT locksmith work and institution-

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Keynotes

i It is really important to learn to not offend people in tomer. Likewise, as it is with most jobs, an employee’s  
;an institution. Mostly, you are dealing with brilliant first duty is to not embarrass their boss. In institu-  
I people who are often dumber than a rock when dis- tionalwork, this is more difficult. If you bring an irate

cussinganytM field.

don’t know that. They haveheemtolcLthatthey are mayeome to rue

(smart and they often believe it holds true about any-  
thing that they do. The people that a school lock- In the everyday world of general locksmithing, if one  
'Tsmlth hasTto'^ "Bis"alw-in with a customer, th^on lo’the ne

[They feel that if they don’t get what they want, when world of an institutional locksmith, one can never  
;they want it, that they are being ignored, and thus leave a customer mad, because they will have to live  
insulted. Whereas, you may be following directions with them forever, and usually, these people have

orretireeariy-Xocksmithstraditionally arethemost

independent, gleefully cantankerous, least political

ed, and take it outj

they probably will be antagonistic to you. If they are

friends with your boss, they will often use that as an i excuse to get special favors.

i A wrong word, or an untactful refusal to do something i requested, can create a bitter enemy from what was an

people in the world. Whether he or she likes it or not, a person working in' an institutionalsetting must be a politician, -and-a-good-ene,-if-they want to survive-for- long, even as a locksmith. People skills, including diplomacy, conflict resolution, and just plain old

otherwise mild-mannered person that can come back Tohauntyouffiuc

: institutional maintenance worker learns ta -use a paperwork order as a shield and buckler against get- i ting mired down in an endless stream of “Oh, while i you are here” type requests that destroy your work schedule; Adherence to established procedure is one

...of the-b£stAQol& that you caiihayg,

! nicely, “If I don’t have it on an order, I am not allowed to do it,” or, “Here is a work order request form. If you IwarfittItoutjTlwD'send’it in for you.” Even so; the

[assigned job done within the parameters given, and keeping the people around happy After all, as in all > service work, the object is to produce a satisfied cus-

“being nice in all circumstances," are the tools of an learruin addition to the physical part of theirwork. \_

And the physical part of the work is different also. Emphasis is given to qualify of work, with fhe general implied instructions\* being that you do your very best work, take as long as you need to do it, but do it right. That, to me as a craftsman, was one of the pleasures of doing institutional work as a locksmith, or mainte­nance worker. I was often; turned loose without time or-money constraints and. told to-do.the best that 1 could do on the project that I was working on. It is not often in the commercial or industrial world that you are allowed to do your very, very best, lo me, that

*~May~20df*

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feels good. This is not to say that an institutional lock- opens and closes just right, and makes that indescrib- smith do^ notfwork within a budget. As in all phaiesaBIeT feaflygdod^sbund thaF^acorrectly instilled and of-institutional fife, there will be someone-makingyou-- maintained door does, then you know thattheinstitu- account for every penny that you spend, and scream- tional locksmith has done their job the way it is sup- ing loudly when you submit the bill for some outra- posed to be done. By association, people tend to geously expensive lock or door that has to be replaced believe that if the door works right and is solid, so is ~ — thriiBtiratitmrSveit'the president of thccoll^e’cairt'\*-'

Thehardwarethat you dealaKith. as-4in-institutional . give-that first good impression7 but we as locksmiths locksmith is nearly always Grade 1, and very expensive and craftsmen can. To me, this makes the institution- as well as the doors that it goes on. Often, you will be al locksmith one of the most important people in the working "with tRe veryTlest quality doors\* made of "TSafityT ~

WdnutfOakf Gherf^^r-etheiHfme-woedsr Tlm-takes-- i—

different skills, and finely honed techniques to do a An institutional locksmith deals with life safety codes. perfect job on this type of door and hardware. A mis- specialty hardware, mortise locks, door closers, panic take when working with this quality door can be very devices and a hundred other things on a daily basis, expensive to correct;”^^lyi3Qryim^erl^'v^“afi ~HfrTjr^SFlS''Tr\*lly responsiblefor peopleVlives. A“ “Qpps” plate. You deal with the best of the best school locksmith will deal with more vandalism pro-— because that is what is required. People who design portionally than a general locksmith. College kids and build institutions know that the truest economy is seem to think that it is fon to lock others in a room the very best lock and door." These facilities and'the and then sit back and watch the excitement. I have locks on them jffe- designed to last for ^o years or had to remove more super glue from locks, and wood longer. The workmanship that maintains this level of pencils from door stops than 1 ever care to count. A

building must be equally as good, also. This means knowing the theories, the whys, and the why nots of the'way things are done iff this"discipline.

The institutional locksmith, by what he or she does, projects the image of the institution a thousand times or more a day. Every thing about an institution should reflect strength, stability-solidness, and permanence. Aside from the first view, the first contact with any facility that a visitor has is when that person puts their hand on the doorknob and opens that door. There is whereThe~'fiist\“juidnoft^''p«nnaneht'' impression is made -of that facility When you have a door that

wood pencil forced between the door and the stop at the top or the bottom of an in-swinging door, will jam the latchbolt so that the door cannot be opened from inside. A prankster wiU-catch another student in their room and lock them in this way. Usually the panicked or angered people inside will scream for a locksmith or resort to destroying the lock and door or both.

Super ^ue? What can I say? General locksmiths love\_\_ it. What people do with it only makes us money. For an institutional locksmith, it is a major pain in the cuzod. They ^f pai^tEesame v^uether they have to • deal with this or not. The people who usually wind up

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isame people

who arc not a bit bashful about telling the world how

they are being mistreated, and an institutional lock-

locksmith as he is the one who pins the cores for the locks there, keeps the records, and oversees the main- tenance of the system and hardware for the physical

smith does not have the comfort of being able to  
chargeThemextrafortheprivilegeoflisteningrtothem

plant. Andy has taken Best’s classes for IC locks and is

vent.



cylindrical locks.

There is much to protect in a college. Not only does the institutional IbcksnutTf have tEe~r^pdhabiEi^ "for'

dents away from home for the first time, but also, for

''Some'of'Hm makes\*it sound like the life' dfan iiiiHtiF'-

reality, it is not more difficult than the things the rest

the physical security of all the records, the research, of us do, but rather it is just different than what other

the equipment and other valuables that a college owns.

a

smith has to secure is staggering. Institutions are..

chock full of the latest in cutting edge technology, all

locksmith disciplines do. An institutional locksmith

of which is very marketable in the outside business worTd. The schooliocksmith is responsible fbf~makihg~ sure thateaehincoming dorm occupant has-afresh, and unused key to their room when they move in. The liability for an incident related to failure to do so

side does^but there are definite advantages to working for an institution. First, the pay is steady, and always there. This is not always the case for a traditional self- ' etn^^yidEr coiiunimion'paidTocksinitii. There is ncT

person, ruthlessly competitive, or even a good busi­nessperson. There are no regular dollar amount quo-

is unimaginable and damages could run into the mil-  
lionsof dollars for an assaulted student. He or she will  
dailymanagea huge masterkey system,usuallyspan-  
ning many buildings and thousands of locks. Key con-  
trol is a big issue, as every teacher there is sure that  
they deserve to carry the Grand Master key and will do  
nearly anything to obtain one. The record keeping

requirement**s are obv**ious, **a**nd daunting,, In times

past, an institutional locksmith did all this on paper.  
Today, there is the blessing of computers and key  
Tracking software.

Today, interchangeable core locks have replaced die  
old Sargent system that was in place at my former  
employer, Navarro College. Andy Barron, maintenance

the function of institutional

tas to meet as are often set in private industry. There  
is no pressure~to produce anything tut good results  
and be dependable.—The institutional locksmith, is -  
more of a pure technician and has the comfort of the  
excellence of his or her work. There are usually excel-  
lent benefits like health insurance, retirement, paid  
vacation, and sick leavethat are often much more gen-  
erous than those same benefits in the private business  
world. The work hours are generally fixed and regular,  
and there is usually overtime, or sometimes comp time  
when you have to work over. An institutional lock-  
smith actually gets to eat a complete meal, and watch  
a whole television show without work interrupting.  
The phone is not nearly so important to an institu-  
tional locksmith. There is much to be said for work-  
ing within this discipline in our industry

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P9~

ILCO 54

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Series Safe  
Deposit lock

by Sal Dulcamaro, CML

ILCO 54 Series Safe Deposit Lock

T

he ILCO 54 series safe deposit lock is  
rekeyable like most lever tumbler [or other  
tumbler based] locks. A safe deposit lock will

typically operate with two keys: a renter key and a  
guard key. The guard key is generally held by the  
bank or other institution that maintains the safe  
deposit boxes. A single nose safe deposit lock will  
have both renter and guard key access the same  
key hole, while a double nose lock will have sepa-  
rate key holes for each key. The 54 series is a dou-  
ble nose, non handed lock. It is shown in photo-  
graph 1. It is double changeable and both the  
guard and renter keys can be changed. In a right  
hand configuration, as shown, the renter key oper-  
ates on the left side and the guard key to the right.  
A left hand configuration would have the position-  
ing and key operation reversed.

The cover is removed in photograph 2. The inside of the lock is exposed to show a less typical construction for a lever tumbler lock. The 54 series lock does not require disassembly or tumbler removal and exchange to rekey the lock. Both the guard and renter keys are resettable with the lock still assembled. The key to the process is the design of the tumblers and fence. Photograph 3 shows the seven flat lever tumblers [from the guard key side] stacked side by side. The location of the gate (unlocking slot in the tumblers] is the same on all the tumblers. The fence, which obstructs a wrong key from operating the lock, is multi-height instead of the more typical straight line pattern. It is the resettable fence that allows the lock to be rekeyed without disassembly or replacing tumblers. The renter side is similarly constructed.

The tumblers are separated in photograph 4. The rearrangement and reassembly of the tum­blers of standard lever tumblers would reconfigure the key bitting. Changing the tumbler sequence here would have no effect. Change is accom­plished with the fence.

Lock Operation

The multi-height fence is held together with a screw that runs from the back of the lock case toward the inside surface of the lock cover. In photograph 5, the tip of the guard key is pointing to the end of the screw (viewable through a horizon­tal slot in the lock] that holds the stacked layers together which make up the fence. To operate the lock, the guard key is first inserted and turned as in photograph 6. If the correct key is used, the gates (or tumbler slots] of the seven stacked lever tum­blers should line up with the multi-height stack of



the guard fence. The fence is composed of seven stacked layers locked together with a screw. Each of the seven layers of the fence will coincide with the gate of one of the seven lever tumblers. The

1. guard key does not affect the movement of the bolt, it merely positions the tumbler gates to match the pattern of the guard fence.

Also in photograph 6, you will see the tip of the renter key pointing to the end of the screw for the renter’s fence. The renter key has a dual action. It must first position the gates of the second set of seven lever tumblers to match the seven layer pat-

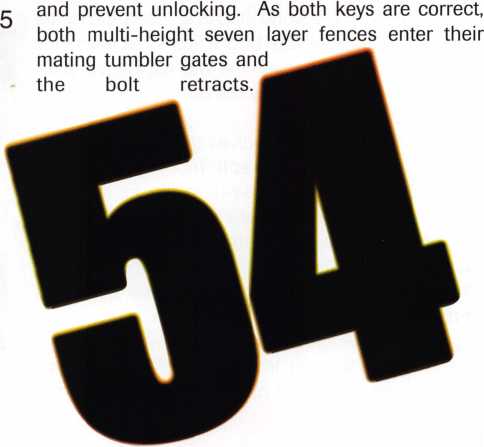
1. tern of the renter fence. This first part involves inserting the renter key and rotating part way. That action has been done in photograph 7. There are two vertical viewing slots just up and to the left of the two lock noses. A more typical lever tumbler lock with straight line fences would give a clear view of the gates of seven stacked lever tumblers. On the guard key side of the lock, there is the illu-
2. sion of such a pattern, but it is not a straight line. The height range on that side is minimal, but the fence pattern fluctuates high and low over the seven layers. If you look into the vertical viewing slot on the renter key side, it is apparent that it varies dramatically. There is no obvious clue that it is positioned to unlock, but it will.

The cover has been removed in photo-

1. graph 8 to give a much clearer view of the second action of the renter key. The first part of the key’s rotation lined up the tumblers to unlock. The sec­ond part of the key rotation has the tip of the key moving the bolt inward in the direction of the tum­blers’ gates. If either key had wrong cuts, the solid surface of one (or more] of the tumblers would make contact with the matching layer on the fence

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Photograph 9 shows full bolt retraction with the cover in place.

Rekeying the 54 Series Lock

Rekeying a more standard (straight line fence) lever tumbler lock, involves removing the existing tumblers and replacing them with specific sized tumblers that match the new key bitting pat­tern. Different sized lever tumblers would vary by the relative position of their gates (low or high) within the overall height of the flat tumbler. A shal­low #1 depth cut would coincide with a #1 lever tumbler having a low positioned gate. A #5 depth cut, which by contrast is much deeper, would go along with a #5 size tumbler that had its gate posi­tioned fairly high. Since the deeper cut couldn’t lift the tumbler as high as the shallow cut, the higher positioned gate allows for all gates to be raised to one single level to interact with a fixed height fence.

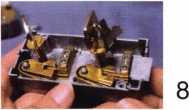
The 54 series lock has fixed height tum­blers which are indistinguishable from each other. The cut depths on the key still vary from each other. It means that when a deep cut doesn’t raise one tumbler as high as a shallower cut is raising anoth­er, the gates in each tumbler are all raised to differ­ent heights. That would make a straight line fence impossible for use in the lock if you used keys with more than one depth.

Changing the Renter Key

It is now abundantly clear that rekeying a 54 series lock does not involve changing the lever tumblers. We will need to loosen the screw that locks together the pattern of the multi-height fence, and alter the height of the various layers to match the pattern of the new renter key. Then the new pattern will have to be held together by tightening the screw.

It is time to get down to specific details. To change the renter key, you will need to start out with the process of operating the lock. The first step is to insert the guard key and rotate clockwise until it stops. The second step is to insert the renter key and rotate clockwise until it stops. At this point, the lock should look much the way we left it in pho­tograph 9. The bolt is fully retracted and the lock is unlocked.

The next step involves getting to the back of the lock, as in photograph 10. The end of the 5/32 inch alien wrench points to the renter fence clamp screw. Directions are reversed because we are looking at the back of the lock. The renter side was on the left from the front, but is on the right from the back. A special change tool/ wrench is supposed to be used to loosen the screw, but I found the 5/32 inch alien wrench to be the right size. With the wrench, loosen the screw 3 1/2 turns counterclockwise. The renter key can now turn a



bit further clockwise. Rotate the key clockwise to the change slot position, as in photograph 11, and remove the key.

The current renter key has been removed in photograph 12, and the new renter key has been inserted in its place. The new renter key should be turned counterclockwise until it stops, as in photo­graph 13. The bolt has not been fully extended, and part of the length of the multi-layered fence is still contained within the tumbler gates. Since the screw has been loose, the layers of the renter fence have been supported by the gates of the tumblers.

As long as the layers are contained within the gates, they will remain in a pattern that match­es the key being used at the time. To set the fence to the new key pattern, the screw will have to be tightened. To do that, we will have to go to the back of the lock again. Photograph 14 shows the alien wrench pointing to the shifted location of the renter fence clamp screw. It is important that the key does not move from the stop position while you are tightening the clamp screw. A surface on the lock casting catches onto the head of the loosened screw to prevent the bolt from fully extending before you relock the screw. If you turn the key after only partially tightening the screw, the bolt will extend and the layers of the fence will separate from the gates. A loose screw will allow the fence layers to shift in height, and you may lose the pat­tern for your renter key. So, while in the stop posi­tion with the new renter key, you should fully tight­en the clamp screw. When it is tightened, you can turn the key further to extend the bolt and your fence pattern for the new renter key should be set.

Changing the Guard Key

To change the guard key, you should start out the same way as for the renter key. That is by unlocking the lock with both keys fully turned clockwise. From here, the process changes. Photograph 15 shows the back of the lock again with the alien wrench pointing to the guard fence clamp screw. Loosen the guard fence clamp screw 3 1/2 turns counterclockwise. Then rotate the guard key counterclockwise to the locked position, shown in photograph 16. Remove this key and reinsert your new guard key. Rotate the new guard key clockwise until it stops, as in photograph 17. Then securely tighten the guard fence clamp screw clockwise. As mentioned earlier, it is critical that the key not be moved from the stop position until the screw is fully tightened.

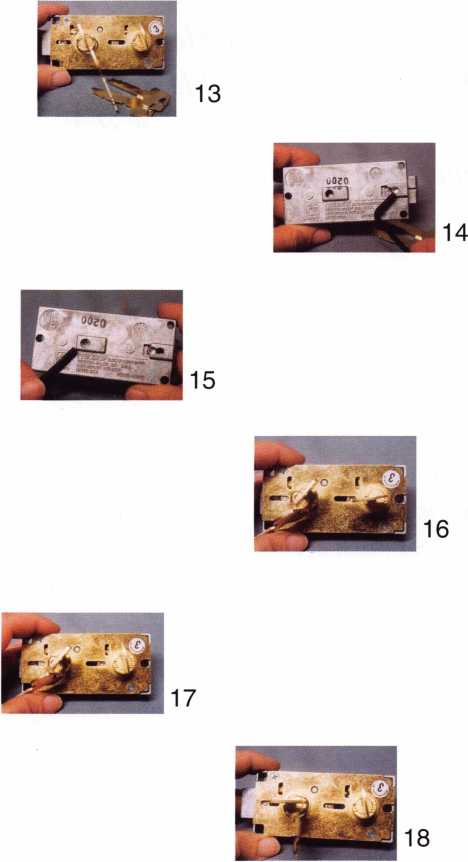
In photograph 18, the renter key has been turned back to extend the bolt, but the guard key is still turned clockwise. In the vertical viewing slot, the guard fence and tumbler gates appear to be in

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alignment. This visual confirmation is not absolute with a multi-height fence, because it is difficult to see layers of different heights further behind. To test that you set the key properly, you will need to try out the keys and see if the lock opens. If one or more layers of the fence shift, you will probably have to disassemble the lock to correct the prob­lem.

The lock instructions indicate that the ILCO Unican change tool must be used or the lock war­ranty is not valid. I don’t have one of the official tools. The 5/32 inch alien wrench seemed to work fine, but not seeing the original tool, I’m not sure how it looks compared to just an alien wrench. My lock suppliers catalog [where I bought the lock] didn’t have the tool listed in the catalog. If I find more information about the tool, I will post the infor­mation on my web page at: <http://home.earthlink.net/~lockwriter>, under “Tech Article Addendum”.



VIDEX

ACCESS

CONTRO



y

idex ( recently announced that CyherLock ) technology  
has been incorporated into the interchangeable core

cylinder and L-handle cylinder. The interchangeable core  
and T-handle cylinders join what is an extensive line-up of  
intelligent lock cylinders in the CyherLock family.

The new small format interchangeable core will facil­itate even faster conversions to a CyherLock access control system, and has been tested with the indus­try’s leading lock hardware. The T-handle offers the only electronic access control solution on the market today for vending machines, coin changers, and arcade equipment.

CyberLock’s innovative technology in lock cylinder design is completely revolutionizing the lock indus­

try. The unique design of all CyberLock cylinders allows you to quickly transform existing mechanical locks into multi-function access control systems, without wiring. The benefits of a CyberLock system are significant. Each key has a unique ID that cannot be duplicated, and the lock cylinder does not have a traditional key-way, which makes the lock pick proof.



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The first component of  
CyberLock system is

CyberLock cylinder. The  
cylinder is an electronic ver-

sion of standard mechanical lock

cylinders. Installation at the lock is as

simple as removing the existing mechanical cylinder  
and replacing it with the CyberLock cylinder. These  
intelligent cylinders contain a microprocessor and  
memory, and are capable of retaining access pass-  
words, a block key list, and an 1100-event audit trail  
that records user IDs, dates, and times. Since the  
CyberLock cylinder contains no battery, it is ideal for  
indoor and outdoor applications, even in the harshest  
environments.

The CyberKey( is the next component of the  
CyberLock System. This is where battery power and  
access privileges are found. The intelligent

CyberKey powers the system. The^^^^^^£^"\* "\

key records an 1150-event history

that includes a cylinder ID,

user ID, dates, and times. The (

key can be programmed to

grant authorized users  
access to specific locks for

specific times and dates, while exceptions such as  
holidays can be preset. In addition, CyberKey can be  
set with a activation and expiration date to prevent  
users from gaining access before or after their project  
has been completed.

For added security in highly protected areas, CyberLock can require multiple keys to gain entry. Locks can be set to require 2, 3, or 4 custody keys in combination. Plus, a delay can be pre-programmed to require the user to wait a specified period of time before access is granted. Finally, in the event that a key is misplaced or stolen, the key can be blocked from all access to the system.

The final component to the CyberLock system is the CyberAudit software. CyberAudit software for the PC is the tool for creating your access control sys­tem. Administrative functions include naming keys and locks, managing locks and keys, defining user privileges, creating master keys and reset keys, and viewing a log of audit events from your PC. You can even keep a file of information on each key holder in your system. A reset key allows you to electronically

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Key Name | Lock Name | Date/Time | Status | ] |
| ► | Joe Wilson | East Entrance | 03/20/2000 06:14:22 AM | Denied | n |
|  | Abby Chaney | West Entrance | 03/20/2000 07:28:03 AM | Key Authorized | |
|  | Pete Sussman | Records Room | 03/20/2000 07:59:15 AM | Out of Schedule | |
|  | John Michaels | Computer Room | 03/20/2000 08:00:03 AM | Key Authorized | |
|  | Evelyn Lefler | West Entrance | 03/20/2000 08:12:16 AM | Key Authorized | |
|  | Juanita Banks | Computer Room | 03/20/2000 08:18:52 AM | Key Authorized | |
|  | Andy Dunsmore | Computer Room | 03/20/2000 08:27:12 AM | Denied | |
|  | Juanita Banks | Chem Lab | 03/20/2000 09:21:45 AM | Key 1 of 2 | |
|  | Abby Chaney | Chem Lab | 03/20/2000 09:21:56 AM | Key 2 of 2 Authorized | |
|  | Pete Sussman | Records Room | 03/20/2000 09:58:33 AM | Key Authorized | |
|  | Pam Freeman | Computer Room | 03/20/200010:12:07 AM | Blocked Key | |
|  | Elizabeth Ward | East Entrance | 03/20/2000 10:21:04 AM | Key Authorized | |
|  | Abby Chaney | Chem Lab | 03/20/2000 11:22:16 AM | Key 1 of 2 | |
|  | Don Acevedo | Chem Lab | 03/20/2000 11:22:28 AM | Key 2 of 2 Authorized | |
|  | Evelyn Lefler | Records Room | 03/20/2000 02:16:33 PM | Denied | |
|  | Les Escobar | Chem Lab | 03/20/2000 03:18:22 PM | Key 1 of 2 | |
|  | Don Acevedo | Chem Lab | 03/20/2000 03:18:29 PM | Key 2 of 2 Authorized | ▼ |

The final component to the CyberLock system is the CyberAudit software. (Screen Shot)

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reset passwords in your locks and keys if the security of your system has been compromised. No more mechanical re-keying!

The CyberLock family of intelligent cylinders con­tinues to grow. For exterior and interior doorways, Videx has created CyberLock versions of the mortise, rim, knob, and lever set locks. For cabinets and con­tainers, Videx has electronic CyberLock cylinders for padlocks, cam locks, and vending machine T-handle locks. Each cylinder is designed to the exact dimen­sions of the mechanical lock cylinder it is replacing, which allows electronic CyberLock cylinders to be installed in standard lock hardware in minutes.

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CyberLock cylinders can be

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transported freight, chemi-  
cals in storage buildings, or

equipment in outdoor pump-

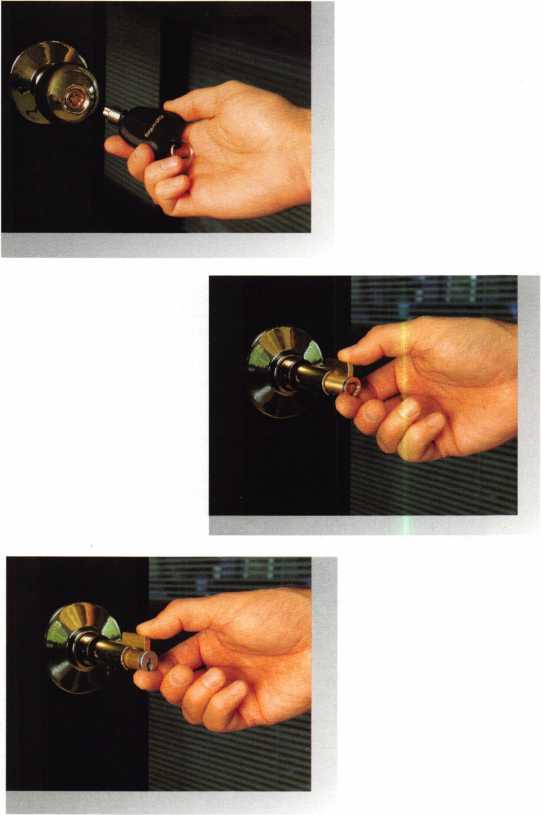
ing stations. CyberLock cam locks can be found  
securing access to network servers and critical data  
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Videx, Inc. has quickly become an industry leader in the design and manufacturing of access control prod­ucts. Videx designs, manufactures, and distributes products directly from their headquarters located in Corvallis, Oregon. The melding of highly innovative people with the most advanced equipment enables Videx to take a product from concept to production

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Videx knows that the ultimate success of any product is in supporting the needs of the customer. To this end, Videx has staffed the customer support team with hardware and software technicians. The power­ful combination of a dedicated customer support staff and advanced manufacturing equipment allows Videx to immediately identify the needs of its cus­tomers, then provide a solution that always meets or exceeds their customers’ expectations. Videx believes a large, satisfied user base is the best sales force any company can have.

For further information you can contact Videx Sales at (541) 758-0521, email address: sales @videx.com, or on their internet site at [www.videx.com](http://www.videx.com).



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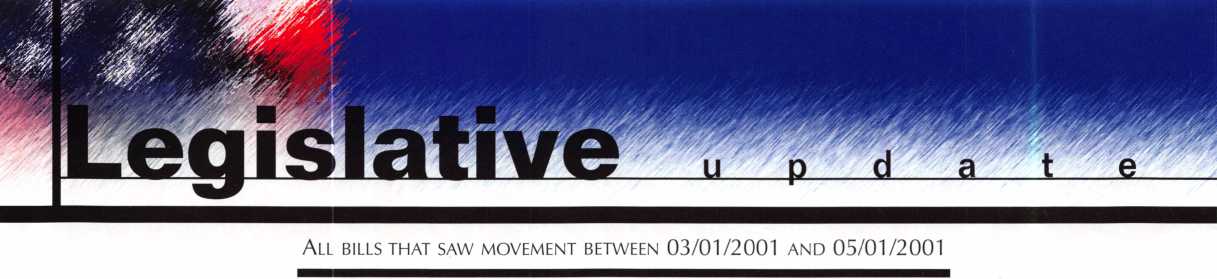
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**CONNECTICUT SB1323**

Establishes licensing and examination requirements for home improvement contractors and telecommunications infrastructure layout technicians.

STATUS: 03/01/2001 To Joint Committee on General Law.

03/27/2001 From Joint Committee on General Law: Reported with substitute.

03/27/2001 Filed with Legislative Commissioner's Office.

**ILLINOIS HB26**

Provides that giving notice to the public by yellow page advertisement, through a sign at the facilities of the towing service, or by any other adver­tisement, that the towing service opens motor vehicle locks to enable a vehi­cle to be moved without towing does not constitute holding oneself out to the public as a locksmith if the advertisement does not use the word “locksmith”. STATUS: 03/27/2001 Tabled by Sponsor.

**ILLINOIS HB2219**

Changes a defined term from burglar alarm system to alarm system; adds surveillance television systems to the definition.

STATUS: 03/15/2001From House Committee on Registration and Regulation: Do pass. Adopted Amendment No. 1.

03/21/2001 In House. Placed on Short Debate Calendar Third Reading.

04/06/2001 Rereferred to House Committee on Rules.

**ILLINOIS HB2536**

Amends the Private Detective, Private Alarm and the Private Security and Locksmith Act; requires applicants to provide a permanent registration card of their fingerprints electronically rather than on inked cards; expands the categories of persona allowed to carry firearms while engaged in the per­formance of their duties

STATUS: 03/15/2001 From House Committee on Registration and Regulation: Do pass. Adopted Amendment No. 1.

04/04/2001 In House. Held on Calendar Order Second Reading.

04/06/2001 Rereferred to House Committee on Rules.

**ILLINOIS SB115**

Amends the Illinois Vehicle Code; provides that other than at the time of sale of the vehicle, no vehicle dealer may issue to any person a new key to a vehi­cle unless the person can prove that he or she is the owner of that vehicle by the certificate of title or the vehicle registration card

STATUS: 03/07/2001 From Senate Committee on Transportation: Do pass. Adopted Amendment No. 1. 03/21/2001 From Senate Committee on Transportation: Approved for consideration - Amendment No. 2.

03/21/2001 In Senate. Read second time. Adopted Amendment No. 2.

03/22/2001 In Senate. Read third time. Passed Senate. To House.

03/30/2001 To House Committee on Rules. 04/03/2001 To House Committee on Transportation and Motor Vehicles.

**ILLINOIS SB967**

Provides for regulation of electricians and electrical contractors; provides that performing unlicensed electrical work, when a license is required by this Act, constitutes a business offense for the first violation and a Class A mis­demeanor for a second or subsequent violation; provides for concurrent exer­cise by home rule units

STATUS: 03/31/2001 Rereferred to Senate Committee on Rules.

**MARYLAND HB224**

Authorizes the Secretary of State Police to adopt regulations to establish fines for specified violations; requires specified individuals to be licensed as private detectives, security guards, or security systems technicians by the Secretary of the State Police before soliciting and engaging in business.

STATUS: 03/02/2001 Passed House. To Senate. 04/05/2001 Passed Senate. To House for concurrence.

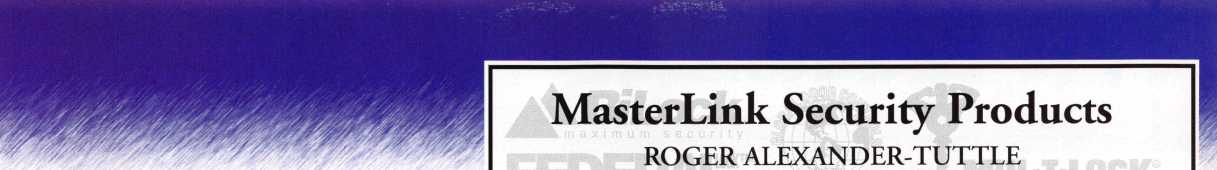
**MARYLAND HB1368**

Tightens the definition of Security System to include locks, electronic access control, alarm and closed circuit television.

STATUS: 03/26/2001 From House Committee on Commerce and Government Matters: Reported unfa vorably.

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**NORTH CAROLINA HB942**

Establishes the locksmith licensing act.

STATUS: 04/02/2001 Introduced 04/02/2001 To House Committee on Finance.

**SOUTH CAROLINA HB3773**

Relates to qualifications for licensure to engage in an alarm system business; requires an applicant to obtain a certificate of completion of training or course work from the National Training School or the Nicet; requires 12 hours of continuing education for renewal.

STATUS: 03/21/2001 Introduced. 03/21/2001 To House Committee on Labor, Commerce and Industry.

**TEXAS HB1077**

Relates to the registration of locksmiths.

STATUS: 04/02/2001 Hearing in the Licensing and Administrative Procedures Committee

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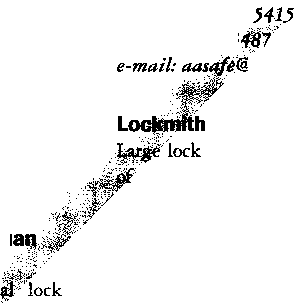
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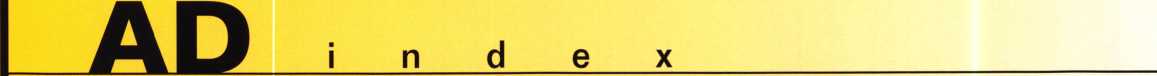
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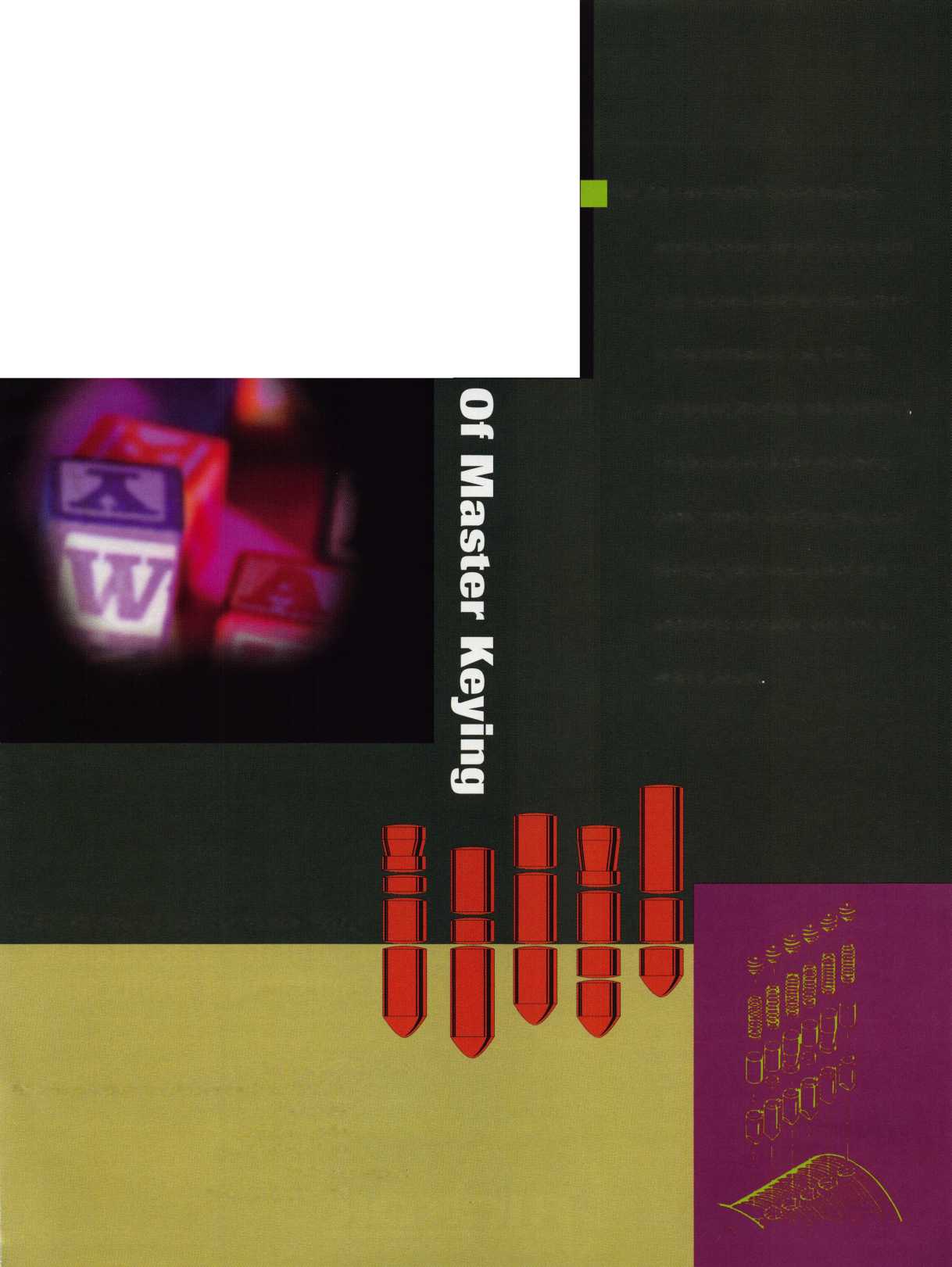
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