

Keynotes

September 2004

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ALL SUSPICIOUS PERSONS AND ACTIVITIES
ARE **IMMEDIATELY** REPORTED

CRIME PREVENTION

LOOKING OUT FOR EACH OTHER

ALOA 2004
Wrap Up INSIDE!!

Plus: Partners in Crime...Prevention, Eric Costley's 3-Point Door, Combination Lock Manipulation, LKM7000, and more!

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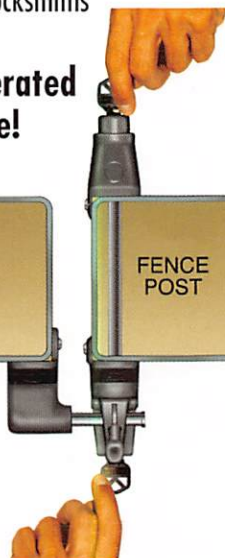
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The Safe and Vault Technicians Association
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hey Mac, keeping up with the latest the industry has to offer has never been more important for us safe technicians. Let me tell ya, you gotta stay aware of what today's top safe distributors and manufacturers are putting out there. It's crucial to making a humdinger of a purchasing decision, buddy. And another thing, time is of the essence when it comes to education. New things pop up every day, Daddy-O, and that makes top-notch safe classes as good as gold. The only chance to get world-class education and meet with the industry's top distributors and manufacturers is the SAFETECH Convention and Trade Show. Boy, is it swell! SAFETECH 2005 offers you a chance to meet with potential customers and bolster business in ways you never thought possible. Discover the safes of tomorrow! Gee whiz, jump and jive your way into Safetech 2005, and you'll be part of our knock 'em, sock 'em show of all shows!!

presidential viewpoint



Dear Members,

It's hard to believe that summer is over, the kids are back in school, and it is time to get back to work at full speed. It's also hard to believe that I have completed one year in office already. I am very pleased with the cohesiveness of the board and our ability to get things accomplished.

It is my pleasure to welcome two new directors to the board, Jim Jeffries in the northwest and Vernon Kelley in the northeast. I am looking forward to the contributions from these new members, Jim for his knowledge of the lock and safe community and Vernon for his input on institutional locksmith matters. I am also going to feel a great sense of loss in the departure of Scott Henke and John Cannon from the board. Scott was the inspirational leader of the board and John was a fixture and a fantastic secretary. I was honored to recognize the Henke family with the President's Award and to present John with his Life Member credentials at the general meeting.

For those of you who haven't heard, the 2004 convention in Baltimore was a fabulous show and a huge success. The ALOA staff deserves our utmost appreciation for organizing and carrying out a wonderful event. Jo Anne Mims, our Convention and Meetings Manager deserves special mention and David Lowell once again put on an outstanding educational program. The staff is constantly looking at ways to improve the convention, which means, that Chicago in 2005 will be even better.

A very important meeting took place in Baltimore in conjunction with our convention. It was chaired by John Cabiness of the National Automotive Service Task Force and was labeled "OEM – Locksmith Work Group Meeting". Basically, it was a meeting between automotive manufacturers and locksmith representatives to brainstorm ways that locksmiths can obtain the information needed to generate keys for late-model automobiles. Two very important things came out of this meeting. First, a Vehicle Security Committee was formed, with Paul Kanitra of ALOA and Mark Saxonberg of Toyota serving as co chairs. Secondly, a draft document was created to lay out the background for a proposal with the National Insurance Crime Bureau for a security professional directory. Many of the ALOA Board of Directors were present at the meeting until it conflicted with our general meeting. ALOA Legislative manager Paul Kanitra and directors Mark Blum and Tom Lynch remained in the meeting to ensure that ALOA's views were represented.

Sincerely,

A handwritten signature in cursive script that reads "William L. Young".

William L. Young, CML, CPS



The ALOA Convention and Security Expo July 17-24, 2005

SWEET

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ALOA 2005
Sweet Home Chicago

CRIME PREVENTION 2004

10 **Partners in Crime...Prevention** **Neighborhood Watch and Crime Prevention**

Sometimes, effective crime prevention must come from the public. Enter the neighborhood watch. What possible role can a locksmith play in a Neighborhood Watch? What are the benefits of getting involved?

14 **Who's Afraid of the 3-Point Door?**

Three-point locking systems are manufactured by Peachtree and Anderson (among others) and, other than a basic rekeying job, they can be a royal pain to work on. But the next time you see one of these beasts looming over you, don't be afraid. Be informed! *by Eric Costley, CRL*

20 **Bank Equipment Field Service:** **Combination Lock Manipulation**

True manipulation of combination locks is the successful determination of a combination through general knowledge of how the lock works and specific knowledge of how that particular lock responds. The manipulator with the capacity to master these skills is defeated only by mechanical failure. *by Brian P. Smith*

24 **LKM 7000**

Locks are designed to help keep the bad guys out. Codes are generally written to let everybody out. Safety versus security, they often clash. Federal government standards, commonly referred to as GSA standards, for storage of classified materials requires a lock approved under federal standards. *by Greg Perry*

30 **The ALOA 2004 Convention and Security Expo Wrap Up**

"As the future of locksmithing extended before the eyes, we were showered with new tools, new electronics, advanced software, innovations in safes, and a multitude of unique ideas brought to us by the experts in our industry." *by Claire Cohen, CML*

44 **The Curious Curator**

Presents French Masterpieces part 2 of 2 *By AJ Hoffman, CML*

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Additional contact information for the ALOA Board and most Keynotes authors is available through "Locksmith Search"™ on the ALOA Web site— www.aloa.org or by contacting the ALOA office at 3003 Live Oak Street; Dallas, TX 75204; (800)532-2562; FAX (214)827-1810; e-mail aloea@aloea.org.

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Mission Statement: The Associated Locksmiths of America, Inc. is dedicated to enhancing the professionalism, education and ethics among locksmiths and those in related sectors of the physical security industry. With approximately 10,000 members in the United States, Canada and the freeworld, ALOA is poised to help members obtain the knowledge, the strength, and the confidence to perform their role in the physical security field with pride and dignity. But it is only through active involvement and participation that ALOA can fully achieve its potential—and can help members to achieve theirs.

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1962-1964 Robert Rackliffe, CPL
1960-1962 Edwin Toepler, RL
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SEPTEMBER	New York Master Locksmiths' Assoc. Monthly Meeting Every Second Wednesday NYC/Long Island Area 718 274-6930	1 Minnesota Chapter of ALOA Regular Meeting, Dinner 6:00 PM, Meeting 7:00 PM, Program: GE Security	1 Ohio Valley Chapter of ALOA Monthly Meeting Ryan's Steakhouse Middleton, Ohio 513-464-1299	10 & 11 TAOL 32nd convention Sheraton Parkway Toronto North Richmond Hill, Ontario Canada www.taol.net
	29-30 SERLAC 2004 Orlando, Florida Classes & Trade Show			
OCTOBER	New York Master Locksmiths' Assoc. Monthly Meeting Every Second Wednesday NYC/Long Island Area 718 274-6930	6 Ohio Valley Chapter of ALOA Monthly Meeting Ryan's Steakhouse Middleton, Ohio 513-464-1299	6 Minnesota Chapter of ALOA Regular Meeting, Dinner 6:00 PM, Meeting 7:00 PM, Program: MN Sales Tax or Homeland Security	12-16 Pacific Locksmith Conference - Portland, Oregon
	13-16 Institutional Locksmiths' Assoc. 2004 ILA Conference The Hotel Roanoke and Confer- ence Center - Roanoke, VA	27-30 GPLA Annual Convention Radisson Hotel • Mt. Laurel, NJ	27-31 GPLA 2004 Convention Radisson Hotel Mt. Laurel, NJ www.gpla.org Exhibitors call Edward Fitzgerald, CML at 856.665.1311	
NOVEMBER	New York Master Locksmiths' Assoc. Monthly Meeting Every Second Wednesday NYC/Long Island Area 718 274-6930	3 Ohio Valley Chapter of ALOA Monthly Meeting Ryan's Steakhouse Middleton, Ohio 513-464-1299	3 Minnesota Chapter of ALOA Regular Meeting, Dinner 6:00 PM, Meeting 7:00 PM, Program: MN Sales Tax or Homeland Security	

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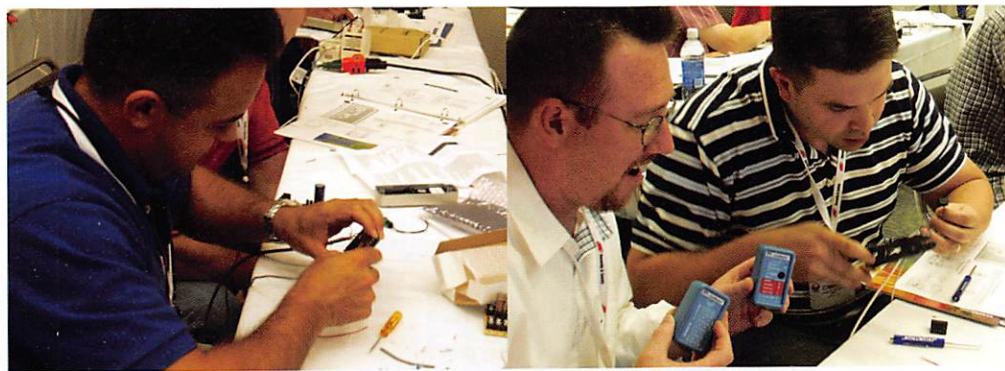
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UPCOMING ACE CLASSES

9/11/2004	Gulfshores, AL • Alabama Locksmiths Association DLee Schofield 334-832-4920 • Life Safety Codes w/L-07 PRP Complete Door & Door Closers w/L-05 PRP	
9/11/2004	Detroit, MI • Locksmith Security Association • Robert Nobel, CPL 810-385-9329 • Tubular Key Locks w/L-12 PRP	10/20 - 24/2004
9/17-18/2004	Biloxi, MS • Lou-Miss Convention • Jim Hancock, CPL 512-472-6273 • Small Format Interchangeable Core, Basic Electricity, Life Safety Codes, Basic Access Control	
9/18/2004	Atlanta, GA • Georgia Chapter of ALOA • Kevin Wilson, CML,CPS 770-279-1161 • Life Safety Codes w/L-07 PRP	10/25 - 30/2004
9/18 - 19/2004	Syracuse, NY • Central NY Locksmiths Association Ron Smith, CRL, CPS 315-782-0912 • Alternate Entry Techniques Keyless Mechanical Locks w/L-20 PRP	11/13/2004
9/25/2004	Casper, WY • Wyoming Locksmiths Association • Darin McFarland 307-587-3035 • Advanced Shop Management	11/13/2004
9/25/2004	Kalamazoo, MI • Western Michigan Locksmith Assn. R. Paul Bentley, CPL 269-327-8400 • Basic Electricity w/L-13 PRP Access Control	11/13/2004
10/7-8/2004	Omaha, NE • MINK Convention • Bernard Dobesh 308-381-4440 CPS Prep Class http://www.nebraska-locksmith.com/	11/20/2004
10/12-16/2004	Portland, OR • Pacific Locksmiths Association • Tom Jones, CRL 503-842-2944 • Basic Locksmithing I & II (twice) http://www.pla-pro.org/plc/index.htm • Life Safety Codes w/L-07 PRP Servicing Aluminum Storefront Doors Master Keying Methods & Formats I & II Late Model Steering Column Service • Power Door Openers Hollow Metal Doors & Frames • Intermediate Auto Lock Service Exit Devices & Exit Alarms w/L-16 PRP	12/4/2004
	Professional Impressioning Techniques • Transponders The Complete Door & Door Closers w/L-05 PRP Professional Lock Picking	
	Sturbridge, MA • Yankee Security Convention • Jack Hobin 800-209-8266 • The Complete Door & Door Closers w/L-05 PRP www.yankeesecurity.org info@yankeesecurity.org Basic Locksmithing I, II & III • High Security Cylinders w/L-08 PRP Exit Devices & Exit Alarms w/L-16 PRP • Basic Electricity w/L-13 PRP Keyless Mechanical Locks w/L-20 PRP • Tubular Key Locks w/L-12 PRP	
	Appleton, WI • Fox Valley Technical College • Jerry Antoon P. 920/735-2406 • 6 Day Basic Locksmithing Course Fox Valley Technical College F-920/735-2414	
	Atlanta, GA • Georgia Chapter of ALOA • Kevin Wilson, CML,CPS 770-279-1161 • PRP Prep Class	
	Detroit, MI • Locksmith Security Association • Robert Nobel, CPL 810-385-9329 • Combination Lock Servicing w/L-24 PRP	
	Kalamazoo, MI • Western Michigan Locksmith Assn. R. Paul Bentley, CPL 269-327-8400 Complete Door & Door Closers w/L-05 PRP	
	St Louis, MO • Bi-State Chapter of ALOA • Robert Theobald 314-340-6801 • Alternate Entry Techniques	
	Birmingham, AL • Alabama Locksmiths Association • DLee Schofield 334-832-4920 • Simplex Unican Certification	

UPCOMING PRP SITTINGS

9/9/2004	Thursday 8:30am • Dallas, TX • ALOA • Hope Rodriguez 800-532-2562x30	10/23/2004	Saturday 9:00am • Sturbridge, MA • Yankee Security Convention • Jack Hobin 800/209-8266
9/25/2004	Saturday 9:00am • Houston, TX Greater Houston Locksmiths Association • Judy Clifford • 979-297-2413	10/31/2004	Sunday 10:00am • Mt Laurel, NJ • GPLA Robert J. Schuettrumpf, CRL856-486-9280
10/2/2004	Saturday 9:00am • Colorado Springs, CO Central & Southern CO Locksmith Assn Gordon Racine, CML 719-384-4707	11/13/2004	Saturday 8:00am • Cary, NC • NC Locksmiths Assn Granger L. Marley, CML 919-859-6060
10/3/2004	Sunday 8:00am • Anaheim, CA • Clark Security Products Joan Emrick 619-718-7308	11/14/2004	Sunday 1:00pm • Robinsonville, MS • Tennessee Organization of Locksmiths • Jim Weidman, CPL 615-837-1264
10/3/2004	Sunday 9:00am • Brandon, FL • SERLAC James Barnhardt, RL 813-689-5979	11/11/2004	Thursday 8:30am • Dallas, TX • ALOA • Hope Rodriguez 800-532-2562x30
10/10/2004	Saturday 8:00am • Omaha, NE • MINK Convention Bernard Dobesh 308-381-4440	11/20/2004	Saturday 8:00am • Atlanta, GA • Georgia Chapter of ALOA Kevin Wilson, CML,CPS 770-279-1161
10/14/2004	Thursday 8:30am • Dallas, TX • ALOA • Hope Rodriguez 800-532-2562x30	12/9/2004	Thursday 8:30am • Dallas, TX • ALOA Hope Rodriguez 800-532-2562x30
10/15/2004	Friday 6:00pm • Portland, OR • Pacific Locksmiths Assn Dan Cunningham, CRL 360-835-7131		

Neighborhood Watch and Home Security

partners in crime... prevention

In an age where security has become a national concern, the need for feelings of safety on a personal level has reached an all-time high. Far gone are the days of leaving your front door unlocked while making a run to the corner grocery. So, with the rising fear of crime comes the need for more effective crime prevention. National government agencies are working hard to keep the public alert, and the local police strive to keep criminals off the streets. But sometimes, effective crime prevention must come from a different source: the public. Enter the neighborhood watch. Most people are familiar with this concept, but few really seem to understand the benefits it can provide to those who choose to begin such a program in their own neck of the woods. This is where the locksmith takes his cue.

A properly trained and reputable locksmith becomes an authority on personal safety.

What possible role can a locksmith play in a Neighborhood Watch? And what are the benefits of getting involved? Well, when it comes to security, who knows more than a locksmith? A properly trained and reputable locksmith becomes an authority on personal safety. You know the ins and outs of locks, which ones work the best and the proper way to install them.

Fast Facts

1. Most burglaries are committed in broad daylight and nearly one-third of them occur through unlocked doors or windows.
2. Some illegal entries occur by use of a former occupant's key
3. Approximately one-half of all forced entries are made without the use of a tool.
4. The average time spent entering a home to commit a burglary is less than three minutes.
5. Neighborhood Watch and home security go hand in hand. The addition of good locks and increased security measures require the burglar to take more time and more noise to enter. This increases the likelihood that neighbors will notice and call 911.

This gives you an instant platform to be able to speak to those in your community about public safety. How will this benefit you as a locksmith? It would grant you an instant connection to the community you serve. When people see that you are actively working to inform them on how better to protect themselves and their families, they will come to trust you as a valuable resource. Word of mouth and solid reputation are invaluable tools to generate business.

It's one thing to have tools such as these at your disposal, but it will take a few creative ideas to make the wheels start turning. First, you should find out what neighborhood watches already exist in your area. Most of the time you can find this out by contacting your local police department. Many of them have officers that work specifically with public watches. Secondly, put something in the hands of the people. Creating a simple flyer or brochure with burglary statistics and security tips can be an informative way to advertise your services.

When people see that you are actively working to inform them on how better to protect themselves and their families, they will come to trust you as a valuable resource.

The goal of a flyer should be to convince homeowners of the value and security provided by proper locks. The great thing is, they don't even have to take your word for it. The National Crime Prevention Center has put together a short press release that answers common objections the average person may have when it comes to the importance of proper safety features (page 12). If you need help in designing an effective flyer, ALOA has done the work for you! There is a template provided in Microsoft Word format that you can download and use for your company. Simply replace the template logo with your own, and add any information you would like about your services. To get this template, visit ALOA's website at www.aloa.org/forms/security. Then click on the "download security flyer" link.

An additional option you may consider is offering a free home security inspection to the public to go over these lists. These ideas may require a small investment of time and money, but the effort will go a long way in the eyes of the public.

Home Security Checklist

1. Are all exterior doors (including the garage) strong enough to withstand excessive force?
2. Are exterior doors secured with a deadbolt lock that has a minimum one-inch throw?
3. Are sliding glass doors and windows secure against forcing the locks or lifting the doors out of their frames?
4. Are garage doors secured (overhead and side door leading into garage)?
5. Are double-hung windows secured with pins or extra locks to discourage prying?
6. If moving to a new residence, did you hire a reliable locksmith to re-key all exterior doors? If possible, have the locksmith make one key to fit all locks?

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Common Objections Answered

High security locks are too expensive...

What did you pay for your last pair of running shoes? We have become accustomed to paying high prices for certain items, but because of the inexpensive imported hardware we have allowed to become "standard" in our homes, we often overlook the true value of a good lock. Be willing to pay as much for your lock as you do for your shoes.



If a thief wants in, he'll just break a window...

More than half of all residential break-ins occur through a first floor door. Less than 1/4 occur through a window.

We've done the work for you! This sample flyer is available for download online. It comes in Microsoft Word format. Simply replace the template logo with your own, and change any info you desire. Get it on the web at: www.ALOA.org/forms/security.

Thieves don't want to make the noise required to break a window, nor do they want to risk personal injury from the broken glass. A thief's preferred method of entry is by quickly getting through a vulnerable or unlocked door. If you have many easily accessible first floor windows, considering adding window film or a motion detector to your security system.

I have an alarm; I don't need good locks...

Would you purchase a car with airbags but no brakes? While the airbag protects you if you hit something, the brakes attempt to keep you from hitting anything at all. Locks and alarms are the same. Alarms notify authorities if a break-in occurs. Good locks can prevent a crime from happening at all.

I don't have anything to protect...

The average residential break-in creates about \$1,500 in losses, much of which the homeowner pays due to insurance deductibles and non-covered items. The emotional stress of having a home violated is an element that is often overlooked but is terribly traumatic for most crime victims. The risk of accidental or intentional injury to an inhabitant of a house during a break-in is also very great. Don't underestimate the value of your life or health!

IS YOUR HOME SECURE?

some little known statistics...

1. Most burglaries are committed in broad daylight and nearly one-third occur through unlocked doors or windows.
 2. Some illegal entries occur by use of a former occupant's key.
 3. Approximately half of all forced entries are made without the use of a tool.
 4. The average time spent entering a home to commit a burglary is less than three minutes.
 5. Neighborhood Watch and home security go hand in hand.
- The addition of good locks and increased security measures require the burglar to take more time and more noise to enter. This increases the likelihood that neighbors will notice and call 911.



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how can I check to see if my home is secure?

1. Are all exterior doors (including the garage) strong enough to withstand excessive force?
2. Are exterior doors secured with a deadbolt lock that has a minimum one-inch throw?
2. Are all strike plates and frames for each door strong enough to withstand excessive force?
3. Are sliding glass doors and windows secure against forcing the locks or lifting the doors out of their frames?
4. Are garage doors secured (overhead and side door leading into garage)?
5. Are double-hung windows secured with pins or extra locks to discourage prying?
6. If moving to a new residence, did you hire a reliable locksmith to re-key all exterior doors? If possible, have the locksmith make one key to fit all locks?

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Who's afraid of the 3 point door?

by Eric Costley, CRL

Three point locking systems are manufactured by Peachtree and Andersen, (among others, but these are the ones I see most commonly,) and other than a basic rekeying job, they can be a royal pain to work on. Both of these use a mortise-style lock in the center of the door, with upper and lower locking extensions which are activated by the central mortise lock. In the case of the Anderson, the lever handle is lifted and the thumb turn then locks the bolts in place.

In the Peachtree design, one only has to turn the thumb-turn to activate all three locking points.

With the door open, the differences are obvious. Peachtree uses upper and lower modules with spring latch assemblies. The Andersen uses hook-like bolts which lock into strikes in the frame. In either case, any problem with the door that requires parts results in a call directly to the manufacturer. I have learned over the years that it is much less painful and time consuming to let the customer deal directly with the manufacturer: I simply relay to the customer what is required, and they pass the information on to the manufacturer. In this way, I avoid navigating the maze of phone menus, extended quizzing, and general discomfort. Both of these companies seem to respond quicker and with more courtesy to their end user. In many cases, they will ship parts directly to your customer at no charge, and Peachtree invariably also includes a VHS tape that details disassembly, alignment and repair... most of my customers watch it, and decide that they would rather have me tackle the job anyway.



A look at the Peachtree interior trim.

First, let's take a good long look at the Peachtree door. If you encounter one in the field that needs any sort of service, call for backup. In order to disassemble this door, it has to come off of the hinges. Sure, I can take one down by myself, but my rather slight build makes it difficult to hold the door in place when I'm putting it back up, trying to realign the hinge screw holes and hold the screwgun all at once. It's much easier with two people. Once the door

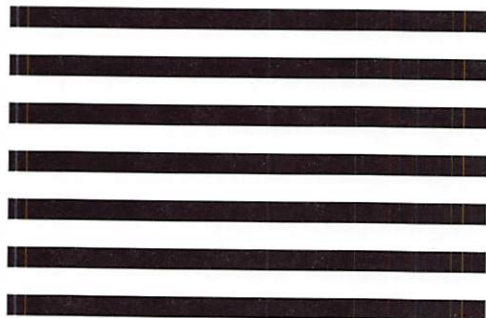
is down, remove the handle and lock trim, and gently pry the sweep part way back to reveal the hole which runs the length of the door. Pull the faceplates off the mortise body and the upper and lower modules, and run to the van for more tools.

A few unusual tools are required: forceps, a 3/32" allen wrench, and two "alignment keys", which are invariably supplied by Peachtree any time they send out parts. My advice to you is to either use these as ornaments on the shop Christmas tree, or to give them to any passing punk that you see on the street for use as decorative earrings. The alignment keys fit so snugly in their alignment slots that you will spend a great deal of time

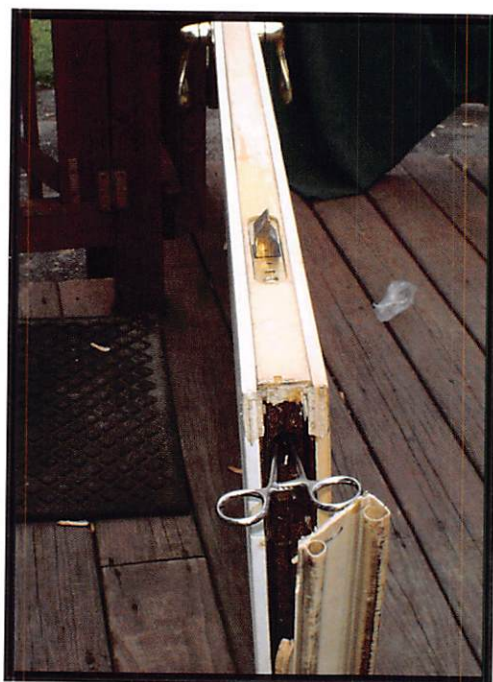
grunting, groaning and cursing quietly. Use a slightly thinner piece of spring steel, or my favorite tool... a pick with the tip broke off. It's amazing how much simpler the job will become.

If you can manage, watch the factory video before you arrive on the job. It's no shame to admit to your customer that you aren't too familiar with the product, or that you service it rarely. Although the production value is almost humorous at times, the information contained in the video is important.

To contact Peachtree, dial 1-888-Peach99

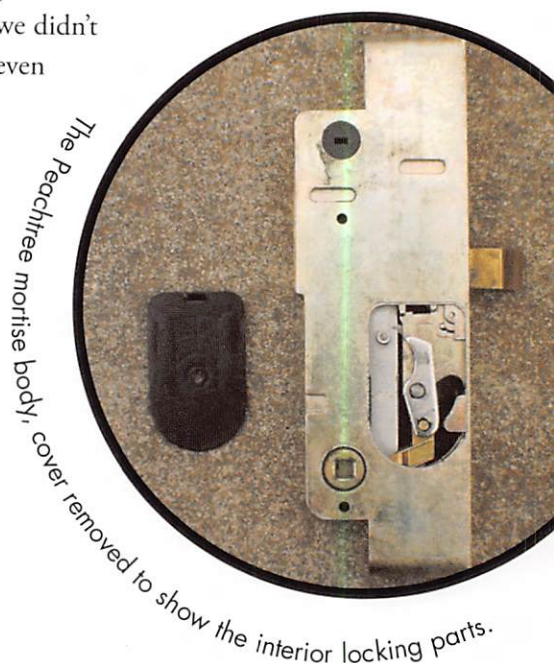


The Peachtree upper locking module.



Peachtree door with forceps attached to the lower locking bar.

Once you've watched the video, you will probably be convinced that the locking bars in the door are probably bent. Peachtree seems to think that this is a common problem, but I have never seen it. Invariably, I find two recurring problems: alignment with the strikes, (caused by settling or faulty installation) or collapsed springs in the modules and the mortise body. My most recent Peachtree job was a combination of both of these problems. The springs on this ten-year-old door failed to extend the modules far enough to allow the mortise body to turn to the locked position, even after replacing the entire mortise body assembly. In addition, the customer's aggressive attempts to lock the door resulted in broken pieces in the upper module, which evidently wasn't really properly aligned with the strike even when it was installed. A shim beneath the lower hinge of the stationary door managed to correct this problem... one we didn't even



The Peachtree mortise body, cover removed to show the interior locking parts.

notice until virtually every piece of hardware had been replaced in the door! If the door locks and unlocks properly when it is open, look to the alignment and strikes for clues that will help you remedy the situation.

The Peachtree door in the photographs had been installed over ten years previously. Still, Peachtree sent out parts to my customer at no charge. The customer was pleased, and more than happy to pay us for our time. We all know that a happy customer inevitably becomes a repeat customer!

One final note about the Peachtree doors... save yourself some embarrassment! The upper and lower modules consist of parts that are virtually interchangeable. If you remove this parts, take note that the word "up" is clearly printed on these. (OOPS.) The locking bars won't EVER align if you've inverted these parts. In addition, the locking bars are clearly labeled "T" for top and "B" for bottom. Other than that, everything you need to know is in the video, so there is no need for me to reiterate and regurgitate information which you can obtain elsewhere.

To contact Peachtree, dial 1-888-Peach99.

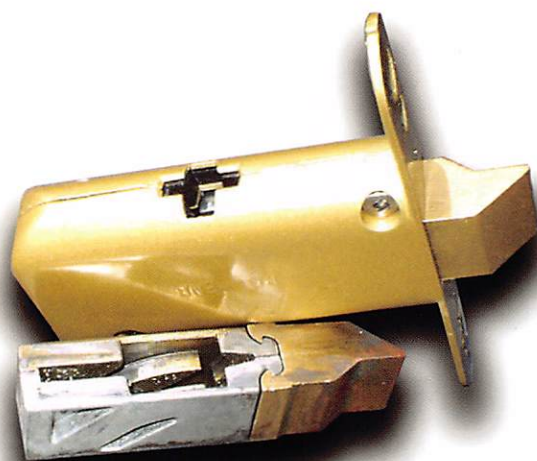
The Andersen 3-point locking door is similar, but an entirely different animal to work on. Your first incentive to swear is the allen screw which attaches the lever to the door. This must be removed for even the most menial of tasks, including rekeying. Once you've gone through all of your SAE allen wrenches, go out and get a 2.5mm allen wrench! Now you can remove the interior trim, the two phillips

head screws, and remove the cylinder for rekeying. Andersen invariably uses cylinders in a Schlage "C" keyway.

One of the most common things I've seen with the Andersen door is that the allen screw will be missing from either the interior or exterior lever... or both! The threads are the same as most "break-to-length" rim cylinder screws. If you thread the rim cylinder screw into the lever and break it off, you can then take a small file or dremel tool and cut a slot in it. This makes a quick and easy fix in the field, and the short end of the rim cylinder mounting screw is nearly the proper length, as well. Since both lever retaining screws are on the bottom, a little lockrite or nail polish will insure that they don't work loose.

The really nice thing about the Andersen door is that the entire 3-point mechanism is one piece, and can be removed without dropping the door. Simply remove the sixteen or so phillips head screws from the edge of the door, and the whole assembly can be gently pried away from the door. (Of course, the levers, trim, cylinder, and interior hub must be removed first, but beyond that, it's a piece of cake.)

Andersen, (like Peachtree,) stands behind their product for 10 years on mechanical parts, so it is unlikely that your customer will have to pay for replacements. However, there are some "quirks" about dealing with Andersen directly, and it is best to inform your clientele of these before they place that important call.



A new Peachtree module and the assembled parts which have been removed from the old module.



The mortise faceplate and the broken parts from the upper control module.



A look at the Andersen exterior trim.



Andersen door with the interior trim removed.



The entire Andersen 3-point assembly removed.

The central mortise section of the Andersen device.



A close-up of one end of the Andersen 3-point device.

On any Andersen door, there is a “watermark-like” triangle in the corner of the insulated glass unit. It is hard to see, hard to read, and nearly impossible to photograph! The factory will want the series of numbers in and around this nebulous triangle to verify the date of manufacture of the door. (And you wonder why I leave this task to the customer? I’ve had enough trouble trying for two years adjusting to bifocals without squinting and trying to peer over the top! In addition, this triangle is usually in the top corner, somewhere around seven feet in height. Most customers are willing to jump through a few hoops for “free” parts, so let them squint instead!)

One exceptional feature of the Andersen door is the adjustable hinges. As it turns out, this is also something that I never knew existed until I was doing some work at a new construction site. The guy who was installing the door showed me that by adjusting the hinges, you can move the entire door up, down, in or out by simply making a few turns with an allen wrench!

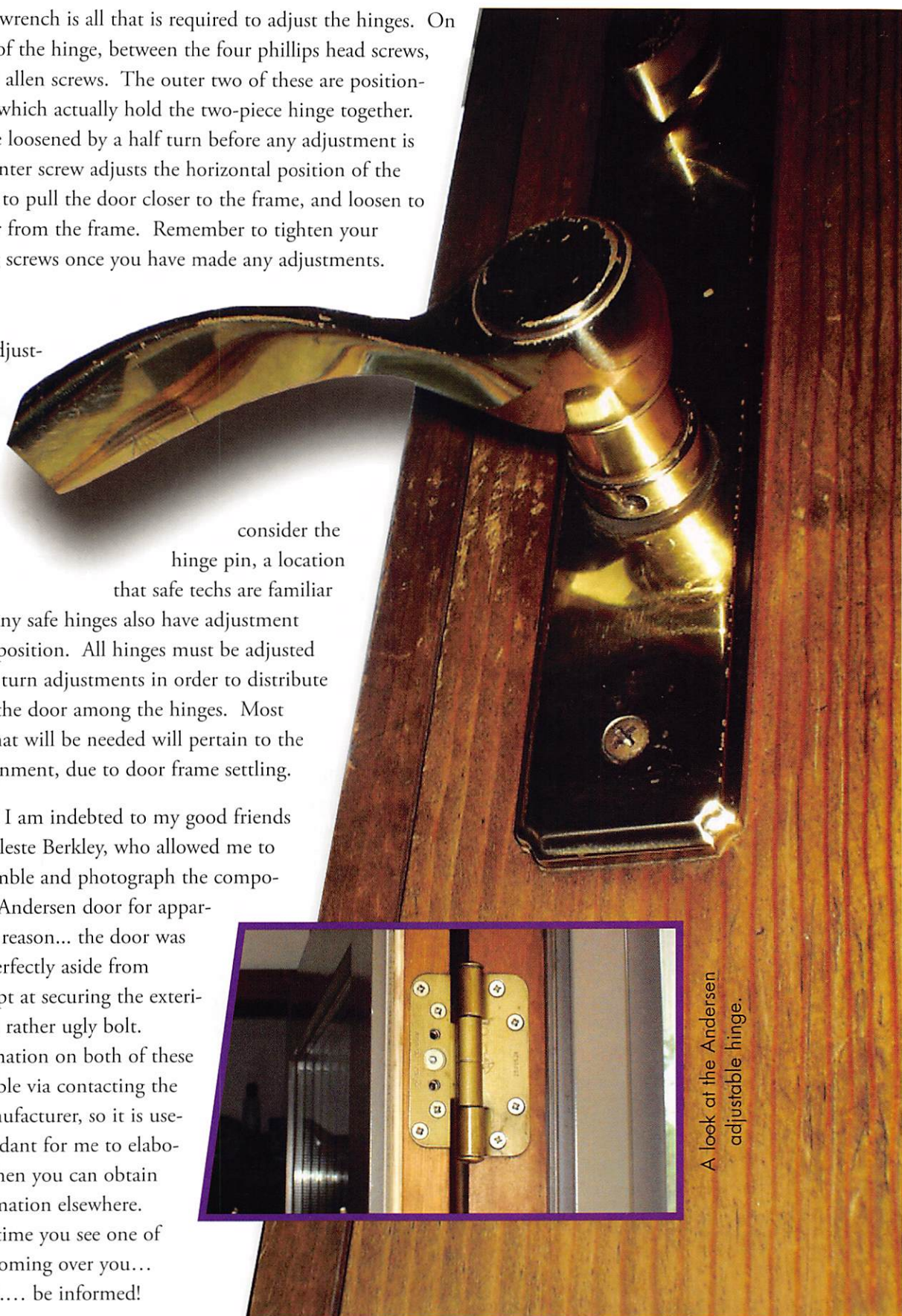
Is this information top secret? It would almost seem so, but since alignment is crucial when there is more than one locking point on a door, I went out of my way to obtain detailed instructions. As it turns out, the information is readily available for download directly from the Andersen website, but finding it may take you through a few wrong turns. Although the website is quite thorough and contains more information than you will probably ever need, it is somewhat difficult to circumnavigate. The file you are looking for is “Hinge Replacement and Hinge and Hardware Adjustment” for Andersen Frenchwood Inswinging Hinged Patio Doors. If you don’t find it, don’t fret... I’ll give you a brief synopsis.

A 5/32" allen wrench is all that is required to adjust the hinges. On the door side of the hinge, between the four phillips head screws, there are three allen screws. The outer two of these are position-fixing screws, which actually hold the two-piece hinge together. These must be loosened by a half turn before any adjustment is made. The center screw adjusts the horizontal position of the hinge, tighten to pull the door closer to the frame, and loosen to push it further from the frame. Remember to tighten your position fixing screws once you have made any adjustments.

The vertical-adjusting screw is in the bottom of what we would normally

consider the hinge pin, a location that safe techs are familiar with, since many safe hinges also have adjustment screws in this position. All hinges must be adjusted equally in 1/2 turn adjustments in order to distribute the weight of the door among the hinges. Most adjustments that will be needed will pertain to the horizontal alignment, due to door frame settling.

In conclusion, I am indebted to my good friends Bernie and Celeste Berkley, who allowed me to totally disassemble and photograph the components of their Andersen door for apparently no good reason... the door was functioning perfectly aside from Bernie's attempt at securing the exterior lever with a rather ugly bolt. Further information on both of these doors is available via contacting the respective manufacturer, so it is useless and redundant for me to elaborate further when you can obtain detailed information elsewhere. And the next time you see one of these beasts looming over you... don't be afraid.... be informed!



A look at the Andersen adjustable hinge.

Andersen interior trim, showing the 2.5 mm allen screw which secures the lever.

Bank Equipment Field Service

Combination Lock Manipulation

by Brian P. Smith

Over the years, one thing that has surprised me is the wide range of opinion used to define the term “manipulation” as it relates to combination locks. Some guys will go out on a call, and return telling me all about a “lock manipulation” they had performed. When the story is told though, it's more likely something I would have called a recovery from a mechanical or operator failure. The combination is still known but the dial ring may have been loose, a change wheel may have slipped, a spline key may have fallen out, the lubrication may have dried up, or the operator may have been improperly instructed on how to open the lock. This is not to say that fixing any of these problems is less important or honorable a duty. Just that it isn't what I have come to know as true manipulation.

True manipulation of combination locks is the successful determination of a combination through general knowledge of how the lock works and specific knowledge of how that particular lock responds. The manipulator with the capacity to master these skills is defeated only by mechanical failure. Manipulation is my method of choice. It isn't mystical. It really isn't hard. It is a matter of knowing the enemy and beating it at its own game.

My first encounter with combination lock manipulation was long before entering the profession. My brother had returned from his first year with the Marines on leave in 1969; I was 10 years old. Somewhere along his journey he had picked up the art of manipulating padlocks. The entire time he was home, he had that lock in his hand tinkering with it. The day it popped open he was so happy and he took the time to show me how he had done it.

I caught on pretty quick and after he had gone, I opened a couple of them myself before the thrill wore off and something new took my attention. Thirteen years passed before I picked up another lock. During that time I had discovered the truth of the axiom that every chain is only as strong as its weakest link. I had experienced several thefts

and acts of vandalism in which the locks involved were completely avoided. They had little or no deterrent value. Even in my line of work at that time, as a Toolroom Machinist, I realized the futility of locking things up. It was obvious that these locks served as little more than a sign asking the honest to stay away, and the dishonest (who generally prefer to be referred to as fun-loving jokesters) to grab a crowbar and help themselves.

About the same time I was ready to give up on all locks and locking devices, I was introduced to the world of bank equipment. It appeared to be the really serious stuff, and the kind you don't see just anywhere. And if that wasn't enough, there were the jewelers' safes. With those, there was little doubt that the lock is indeed the weakest link, but weak is a generous term to be spoken of and is only relatively to the strength of the overall unit.



To me, the practice is just like that of keylock picking without the benefit of actual direct contact with the parts involved. There is no preconceived damage, simply the need or desire to enter without the generally accepted tool: the key or combination. I have found that even with training (which is essential) and practice with a lock set up on a stand (which is not always convenient); nothing prepares you for the real thing like the real thing.

My training was under the instruction of a man named Rex Parmalee. He gave (for a substantial fee) a weekend seminar here in St. Louis back in 1992 under the company name of Security Plus. It was in a hotel conference room where we spent the first day going over general lock and safe identification and maintenance. The next day was a non-stop manipulation course in which he explained and demonstrated the process. At the end he set us all to time trials to see who would finish first. My employer and myself were the first out of a class of about one hundred. We were feeling pretty special, but you must understand these were LaGard key change models... not the toughest, especially after hours of practice. But we had a good lesson and were ready for action.

Since then I have had many opportunities to open security containers. I have had many successes and some failures as well. No safe has beaten me yet. Whether floor safes or vault doors, one way or another I get in but manipulation really has its time and place. There are times when the customer just doesn't have faith in the practice. They would rather see action. It doesn't matter to them that this could end up costing them much less in time, parts and repairs from a drill job. They want to see metal fly, sweat drip, and an open door. If quick access is all they are interested in and they don't need to use the safe again right away, then drill it. But if it is an antique safe of value, or they have are not willing to take the risk of not using the safe immediately afterward; manipulate.

For those times when the conditions are right, manipulation is definitely the way to go. From the calls that include people having changed their own combination and don't know what they set, to the ones where safes or vaults have been abandoned long enough for the combinations to have been lost or forgotten, I would much rather spend a little more time in one trip of manipulating. I carry only a flashlight, a pencil, and a can of spray oil. That's it.

Compare that to dragging in a drill, an extension cord, a pressure rig, carbide and high speed bits, magnets, mirrors, borescope, and your lucky toolbox. Then there are the dashed hopes of finding an electrical outlet nearby, worrying about causing damage to the customers possessions (the safe's contents), and hoping for a clean shot the first time. This could go late. And then you need a dolly to carry the safe

door out to the truck, or you must carry in a welder, hammer, pins, maybe a lock, dial and accessories, protective gear; never mind the body filler and touch up paint, brushes, pans, thinners, rags, and all the stuff you should have brought but forgot. I think you get the picture.

If it gets late while manipulating, I throw the flashlight and pencil in my pocket, fill one hand with the spray oil, shake the client's hand with the other, and I'm off 'til tomorrow.

Now. As for those automatic dialing rigs, let's just say the jury is still out. I have used them. I have watched them work, and while they do work sometimes, other times they fail. They take too long, and even cause damage. I have out-manipulated them because I have something they lack: a memory of what looked like a good number even though it was not a clear hit.

There is one thing about them that I see as a real asset. As long as they are working, the benefit is the prospect of being able to walk away and concentrate on something else while they run through their routine. But the problems start when you return to find it still grunting away. Upon closer inspection you find that the spindle has seized up and the chuck is slipping or worse. It has taken the dial with it. LaGard locks are great for that. The machine reads "DIALING COMPLETE"; so you take off the rig and the dial comes off with it!!! And no, it is NOT open.

The model one of our technicians owns (pretty standard construction I would say) is built too light duty. It looks good in the box, but as it is set up, its weakness shows. It has three-quarter-inch diameter aluminum rods which support the dialing head from the base. The base attaches with magnets to the safe door. These are sufficient for a lock operating smoothly, but this is not always the case. It is especially a problem when the rig is left unattended; the only time it is really useful. The repeated vibration and twisting action are often too much. It can and does become loose and misaligned, causing errors in the process. It is also difficult to set up because of the mere fact that this machine does not have the ability to deduce the drop point gate spread. This is an integral part of the manipulation process which must be made up for by trying every possible combination. Sure it works, but a lock is not made to withstand this kind of constant dialing. Remember friction? It can and does do horrible things to mechanisms without enough lubrication.

I admit to not knowing all of the technical data used to determine how many turns a dial can endure before freeze-up, but I guarantee you that frequency of use is factored into the equation when locks are designed and lubricated. Relentless dialing for hours on end by a manipulation machine is not considered in that calculation.

All things considered, manipulation beats all of the safe opening alternatives. I wouldn't begin to attempt a lesson here. There are lots of courses available out there. But I do offer a few pointers.

For me, the concentration is a problem. Any questions or comments from the peanut gallery throw me off. If you are the same way let your audience weigh the costs for themselves. I explain to them up front (tactfully of course) that the work is by the hour and I take less time if I'm not talking. They usually understand and scurry off telling me where they'll be. The other thing: observation is critical. Once you have your solitude, focus on the safe. Hear everything it does. Feel the sound through the sides with one hand and dial with the other. Watch everything. If you see the slightest change in the alignment of the index and the dial marks, take note of it.

Remember that each change is relative to your connection to the inside. The spindle may be bent, the wheels are not perfectly round or there may be slack in the spline key. If you need glasses, use them. Eye strain is a potential problem. Take time to rest your eyes if needed.

When you feel like you have been there too long, you have been there too long. Hike out and get the drill rig. But if you feel like you are in this one, but your concentration is weakening, your eyes are straining, and everyone has a question that only you can answer; take a break from it. That doesn't mean stand back and stare at it. This only continues your frustration. It means go answer those questions. Finish up some paperwork you may be behind on. Straighten up your truck supplies. Whatever it takes to make you forget about it for a while. Take just long enough that you start feeling confident about the job again. It gives your mind time to sort out the details, and soon you will be back with new determination.

Lock manipulation is a matter of mathematical and physical reality, but it is equally a matter of extending your senses. If you can make the parts inside of that lock an extension of your self, you can open it. That is your advantage.

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Southern Steel/Folger Adam Merger

Phelps Tointon, Inc., Southern Steel's parent company, completed the acquisition of the principal operating assets and business of Folger Adam Security, Inc. on August 9, 2004. This acquisition brings together two of the pioneer manufacturers of detention products into the United States: Folger Adam established in 1905 and Southern Steel in 1897—a total of over two centuries of experience.

The new name for the Folger Adam and Southern Steel Company will be Southern Folger Detention Equipment. The Folger Adam product line will remain viable and active to satisfy both the needs of replacement parts for Folger's facility base, as well as the new construction market. Over the next eight months, the Folger Adam product line will be moved from Lemont, Illinois to San Antonio, Texas. To maintain the quality and workmanship that the name Folger Adam has meant to the detention industry over the past 100 years, this move will be executed in three well-planned phases: the first is to develop written and video recorded assembly instructions for all Folger Adam products. During the second phase, a sampling of the Folger Adam product will be built in San Antonio. The final phase will be the actual move of documentation, equipment and fixtures to San Antonio.

New and Improved Website at LAGARD.COM

LA GARD is pleased to announce the launch of a new website at www.lagard.com. The time was certainly right to upgrade the old site and introduce a new-and-improved look that we feel will reflect our enthusiasm and our mind-set for the upcoming years. The ease at which the user will be able to navigate around this site will be a great time saving and beneficial feature that we hope will entice the customer to re-visit LA GARD.com time and time again. "With so many new innovations coming to market, timing couldn't be better to introduce a state-of-the art web-page to fully showcase all of our products with such ease" said Susan Papa, Vice President of Sales and Marketing for LA GARD.

The new lagard.com enables the user to find the answers to the most asked questions about each and every product offered by LA GARD, along with cutsheets which entail specifications and features of each product available to download with a click of the mouse. [Lagard.com](http://lagard.com) also features an up-to-date International and Domestic Distributor list for customers all over the world.

S&G Factory Tours

Sargent & Greenleaf, located in Nicholasville, Kentucky, has begun a regular schedule of factory tours. Two tours will be conducted every Wednesday, at 10 am and 2 pm. There is no charge for the program, but space must be reserved in advance. This can be done by contacting Emma Davis, at 800-826-7652, extension 216. Each program will last approximately 40 minutes.

P.O.L.A. Celebrates 40 Years

The Penn-Ohio Locksmiths Association will be observing its 40-year anniversary this month. In 1964, Paul Kirchbaum, a former director of ALOA invited locksmiths in and around the Youngstown, Ohio area to meet with him in his shop to discuss the possibility of forming a local locksmith's association. The purpose was to further education and foster fellowship among locksmiths as well as to showcase manufacturer's products to the group. For information on activities and membership, contact P.O.L.A. at 724-962-2127.

Editorial Correction

In the June 2004 Keynotes article, Spherical Masterkeying by Eric Costley, CRL, key #16 is missing from the text. The key is gBCDkf.

In Memory

ALOA member **Richard Walther** passed away this month. A locksmith for over 35 years, he is described as being dedicated to his work. His mother, Norma Walther stated, "His whole life was his business and when he said he provided 24-hour service, he meant it! It was not unusual for Richard to take calls in the middle of the night as he was the only locksmith in Waverly, Iowa." Richard Walther attended ALOA conventions and classes and was known to many as a dedicated professional and a friend. Richard started his working career as a farmer, growing corn, soybeans and oats. Locksmithing was "just a hobby" in the beginning but soon took over farming as Richard's main interest.

Locksmith Killed at Work Client was a Victim of Earlier Crime

by Allen Lengel, Washington Post Staff Writer

A young immigrant locksmith was fatally shot in Southeast Washington as he tried to help a robbery victim get into his car after the keys had been stolen.

Ehud Raich, 25, was assisting the car owner when a gunman approached on foot and fired once, striking Raich in the neck, police said. The shooter then jumped into a dark-colored car occupied by one person and fled.

Raich, an Israeli native who lived in Arlington, was pronounced dead less than an hour later.

For the complete story, visit <http://www.washingtonpost.com>.

"Locks & Locksmiths" Yellow Pages Heading Generates More Than 32 Million Look-ups Per Year

Whether responding to a family locked out of its car or changing the locks on a new home or office, locksmiths are crucial for both emergencies and everyday security services. According to the Yellow Pages Integrated Media Association® (Yellow Pages I.M.A.®), 3.5 million Americans refer to the Yellow Pages annually to search for a locksmith, generating more than 32 million look-ups per year.

For more information on specific Yellow Pages headings, please visit the Yellow Pages I.M.A. Web site at <http://www.yellowpagesima.org/research/index.cfm>.

NEW CERTIFICATIONS

CMLS

CURRY, AUSTIN R.
GALLAGHER, JOSEPH
LAEGELER, GEORGE
MARCUS, HARRY F

CPLS

BALDWIN, JEFFREY G
MATTESON, JACOB B
BROCKNER, JOHN D.
CHAMLEE, JAY R.
CYREE, CHRIS W
GRUBER, JAMES E.
MONROE, MATTHEW
WIEDMAN, JAMES W.

CRLS

BIERMAN, TERRY L
BLYSTONE, BRIAN R
CAMPBELL, BRUCE A
CLAAR, DAVID E

CLIBER, JOHN A.
COX, JEDD J
DEMUTH, LAWRENCE
FRIEDENBERGER,
WILLIAM R
FORSON, WILLIAM
KINDRED, WILLIAM J.
LEE, ROBERT
PAULOS, TEDDY S
PETERSEN, MICHAEL
REX, TERRY
SMITH, ROBERT W.
SNOOK, HARRY G.
SNYDER, DEBORAH S.
STRACKE, CHARLES D.
STRAUSS, CHRIS
TRUEMPY, JOHN D.
WILLIAMS, SCOTT
WILSON, NICK R.

BROWN, DANIEL M.
CAJIGAS, ALEJANDRO
CARTER, JOSEPH
DEVOTO, ANDREW J
EVANS, DEAN LEE
FRANKLIN, WILLIAM B.
NEJELSKI, STEPHEN D.
RIDEN, STANLEY
TIMCHAK, GARY G.
WALKER, ANDREW D
WOMACK, WESLEY A

CPS

BILLHEIMER, DAN
DUNN, JOHN III
HAWK, PAUL
SELLERS, EDWARD



Now you can have your Security and meet Life Safety Codes Too! Locks are designed to help keep the bad guys out.

Codes are generally written to let everybody out. Safety versus security—they often clash. Federal government

standards, commonly referred to

as GSA standards, for storage

of classified materials requires

a lock approved under federal

standard FFL-2740.

Currently, the only locks

approved are the Kaba

Mas X-07, X-08, and

X-09. The X-09 is the

only lock currently

being manufactured.

If you need to install

the lock on a personnel

door the requirement

comes from FFL-2890.

Until Lockmasters devel-

oped the LKM7000 series of

locks the only approved locks

were the CD or Combination

Deadbolt versions

of Kaba Mas X-07, 8, or 9

A couple of problems exist with using a CD lock. First, life

safety codes require single-motion egress. If you have a

locked CD lock, two hands are required to open the door.

One to turn and hold the small knob on the CD lock and a

second hand to turn the doorknob. The second issue is the

Americans with Disabilities Act or ADA. The small knob on

the inside of the CD lock has never met the requirements

for lever or paddle for egress. Third, in the case of federal

government facilities and perhaps others, a variance is allowed to use the CD lock, provided the life safety button is pushed in while the building is occupied. This requires the first person entering the building to dial the combination of the lock from the outside of the door then push the button in thus blocking the dial from being turned. At the end of the day the last person out of the building is required

to go back to all the doors and release the life

safety button then turn the dial on

the outside of the door to lock

the CD lock. The problem

is in most cases either

the CD lock is not

unlocked during

the day (bad for

life safety) or the

door is not

locked at night

(bad for securi-

ty).

Lockmasters

solved all these

issues and more

with the LKM7000

family of locks. The lock

starts as model LKM7000

(Add the LKM7001 key override

module

and it becomes model LKM7003.) Additional variations

are available such as the LKM70001 exit device (no out-

side trim) or it is available in a package with an X-09 lock.

The LKM7000 works on both inswing and outswing

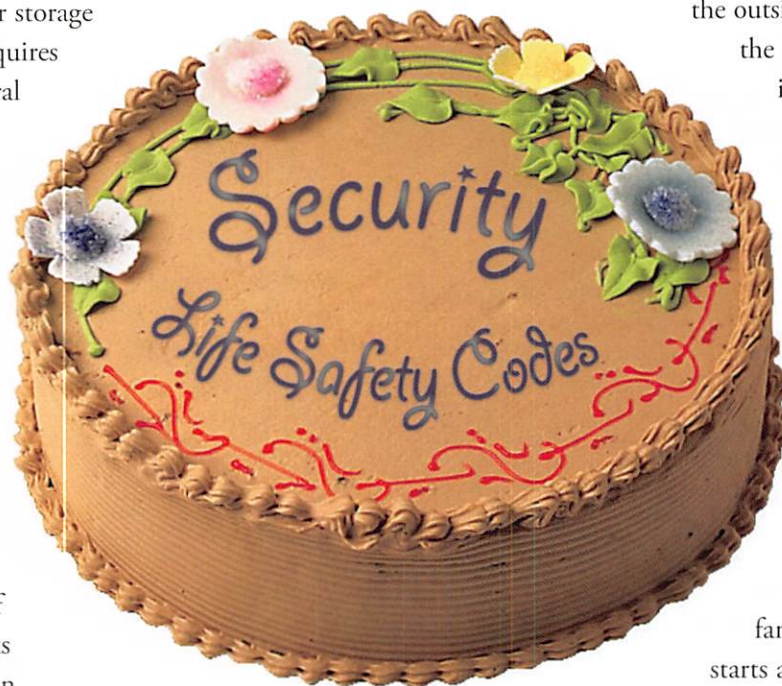
doors with no modification. The only difference is the

choice of strike. Let's look at how they solved each issue

and we will install a LKM7003 lock on a door.

The first issue is life safety. The LKM7000 always allows

egress. The locking mechanism only prevents entry. The



The LKM 7000 by Greg Perry, CML, CPS

second issue, since the lock use a lever from the outside and a push or pull handle on the inside, it meets ADA. The third issue regarding leaving the door locked or unlocked at the wrong time is solved in a couple of ways. First, since the lock always allows egress, there is no need to unlock and push in the life safety button or for the last person out to relock the lock. Next the LKM7000 has two bolt position monitor switches. We can now tie the switches into the alarm system. This means we can electrically monitor both the deadbolt trigger and the bolt position of the combination lock. Between the two switches we could prevent arming of the alarm system unless the locks are locked. Security officers should be happy with this feature. Lockmasters will soon be submitting the LKM7000 to UL for testing on a fire-rated door. The hope is to receive a 20-minute listing, the same as the Kaba Mas CD locks.

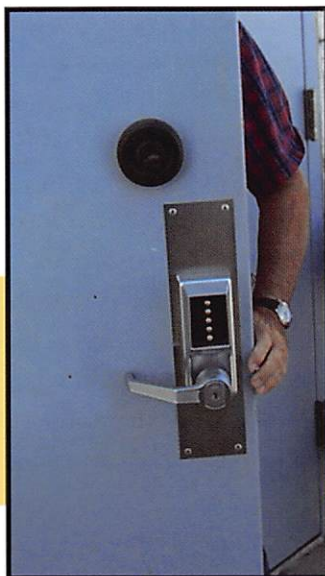
Typically the combination lock installed in the LKM7000 will be a Kaba Mas X-09 although any "standard" footprint combination lock can be used, provided it meets the requirements. This means if you do not have the need for a lock meeting the GSA standards, the LKM7000 can use a mechanical lock. If someone else should design a lock meeting the requirements for FFL2740 it could also be used.

The LKM7000 has another feature to make it even more appealing after the combination lock is unlocked. Inside the base unit is a solenoid module. This module allows the LKM7000 to be released electrically using either 12 or 24 volts. This means, in the most basic form, that it includes a remote release switch with a power supply. In the more advanced form we can release the lock from the outside using electronic access control. This negates the need for a separate lock and electric strike or magnetic lock. If the LKM001 key override module is installed, the solenoid is included in the

override module and the one in the base unit is either removed or disabled.

Opening the box for the first time can be a little intimidating. The instruction manual looks like a small book. The lock is heavy and the templates might scare a few. This being said, Lockmaster has created a drilling fixture. And although the installation may take 9 to 10 hours the first time, especially with the plastic templates, the lock is not difficult to install. It is time consuming, but not overly difficult. It's somewhat like a jigsaw puzzle. Most of us could not sit down and build a 1000 piece puzzle unless we started with the easier 60 or 100-piece puzzles and worked our way up. If you follow directions and understand lock installation methods you should be able to install this lock. If you are early in your career or shy about a long installation, I would not recommend attempting this install.

John Chaco, West Coast technical guru for Lockmasters, joined me and the two base locksmiths, Jim Crow and Chris White, to assist us with this first install. Before starting to install the LKM7000, all other locking systems must be removed from the door or better yet install a new door. The door we are installing originally had a mortise lock. Several years later, a Simplex/Unican L1021 lock was installed along with a Lockmasters LKM5001. This was the Lockmasters version of the CD-X07 lock. This door and installation is probably about the worst you might encounter in the field. Most doors will not require all of the repairs necessary on this one. Once these locks were removed the door was evaluated. A 12" x 16" plate was installed on each side of the door to cover all the old holes.



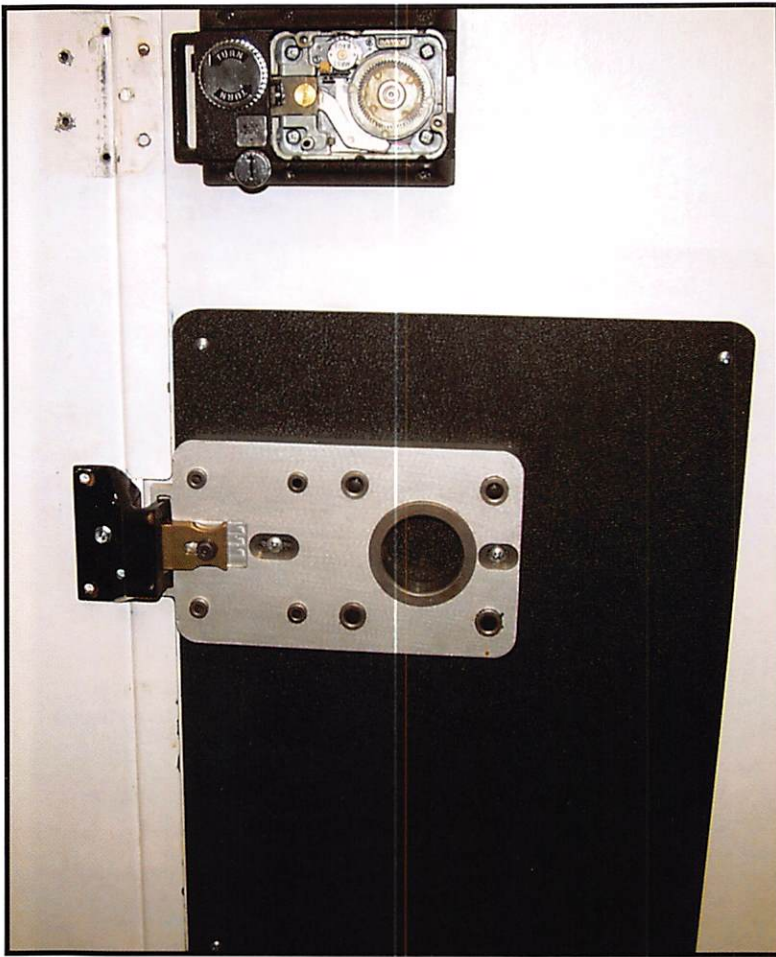


Photo 4

one screw was used to hold the strike in place until the lock was installed in case we needed to adjust the location slightly. The plastic template can be taped in place, or the drilling fixture Lockmasters created just for this lock can be used. Using the plastic templates requires a great deal of precise measuring. Both vertical and horizontal lines must be properly aligned on both sides of the door, not an easy task for many of us. John brought along his fixture and after looking at the plastic templates again we made a choice.

We chose the fixture. The inside drill guide fixture was placed on the strike and the door was closed. A level was used and two screws were installed to hold the inside fixture in place. Alignment was checked by opening the door and using the brass slide bolt to check locking. Once you are comfortable with the alignment drill the "A" 1 5/8" spindle hole and the 6 "B" 5/16" holes. Only drill these holes partially into the door. We chose not to drill the 4 "C" holes until after the lock was installed in case we needed to adjust the lock position slightly. Next, we installed the second portion of the inner fixture. This piece has two spindles on it to align the outer drill guide. We installed the outer drill guide on these spindles and used the supplied

clamp to secure the two halves together. Then, we drilled the outer holes, "D" 3/4" and 6 each "E" 3/16". Once all the holes were drilled the fixture was removed. (Some of the holes needed to be enlarged to their final dimensions.) Next, since we wanted to install the Key Override Cylinder Module, the plastic template was applied to the door. (Lockmasters is redesigning their fixture to add the key override module, but at this time only the plastic templates are available for marking the correct locations on the door.) After completing the holes for the Key Override Module and drilling the balance of the holes to the correct sizes, the plates were removed and the holes and plates were deburred. Removing the plates also allowed us to clean all the loose metal shavings from under the plates. We then reinstalled the plates. All of the drilling and cleanup required about two and one-half hours.



Photo 5

The plates were offset slightly on opposite sides to properly cover them. Next, the strike was moved down on the inactive door. We also cut the astragal for the loop of the lock so all the strike screws would be into the door and not the astragal. Only

Finally it was time to install the lock. Since this we were installing on a hollow metal door, a thru-bolt kit was used to provide support of the lock. The kit was attached using Allen screws with a little Locktite threads. The outside lever was installed on the spindle. It was held in place with a socket head screw from the underside of the outer front plate only. Since we were installing the key override cylinder, the mounting plate from the underside of the front plate and the plastic filler from the appropriate side were removed. It's not a bad idea to check the inside of this assembly to verify the timing marks are correct. Next, we removed the inner cover of the base plate. The two halves were installed on the door using four socket head cap screws. On the outside of the door the spindle tube was marked below the surface of the outer face. Another method is to count the number of notches on the tube. In our case, five notches were placed at the end of the tube about 1/8" below the face. Lockmasters designed the lock to have about 1/4" of play or tolerance. We also installed the key override plate and the cylinder. The lock was removed, and the snap ring holding the spindle tube was removed so it could be cut in a vise at the appropriate place. The tube was deburred, cleaned and reinstalled on the base plate. The screws for the key override plate were installed and the light tube installed in the door. The key override module was installed onto the base plate.

Then came the tricky part. The tailpiece from the cylinder, the light tube and the spindle tube all needed to align with the base unit as it was installed on the door. The front plate was installed on the tube, then the screws were installed.

...Time consuming but not overly difficult. It's somewhat like a jigsaw puzzle.

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Once again, the alignment was checked and we adjusted the lock and strike slightly for better operation. The four screw holes we didn't drill earlier were drilled and installed with the balance of the strike screws. Again operation and alignment were checked.

then, it was time to install the combination lock. We installed a Kaba Mas X-09, although we could have reused the X-07 portion of the lock from the original LKM5100. This would have required several new parts: spindle, dial, hub, tubes and bolt. The customer opted for the new lock. The X-09 install requires a separate article so I won't cover the steps here. After the lock was installed the back cover was installed and we were left with tool and area cleanup.

Lockmasters has developed a number of plates to help with the install. Three of them were used on this install. The first was used to cover all the original holes from the original locks. The next two plates were installed over the original holes from the CD lock.



Photo 6

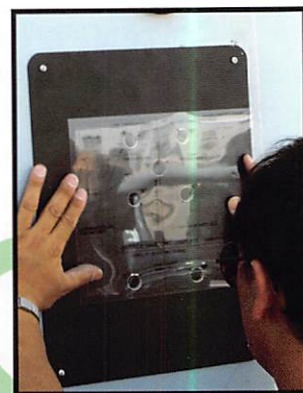


Photo 7

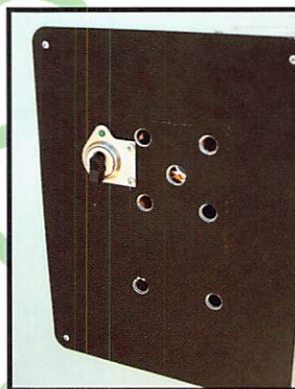


Photo 8



Photo 9

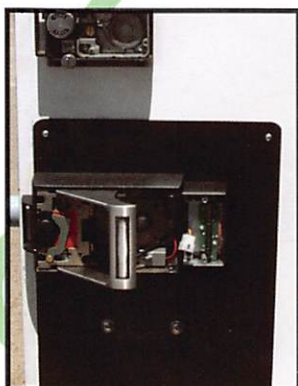


Photo 10

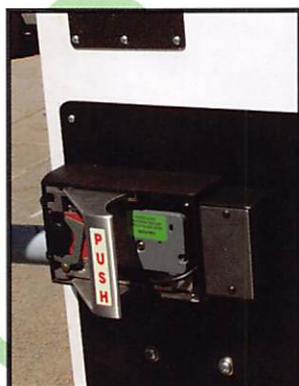


Photo 11

This lock was mounted too high to be covered by the lower plates. Lockmasters redesigned the strikes for adjustment. The center screw hole was enlarged to allow for fine adjustment. There were also shims provided for moving the strike away from the surface. The only downside to these strikes is they changed the screw locations. This can be a blessing if you only need to move the strike a little and need new screw holes, or a little bit of a curse if you don't have the same strike.

Installing this lock required over five hours of labor, and we had some of the best help in the industry. We also had the Lockmasters drill fixture to help us. We did not provide any of the wiring for the alarm system or electronic access control system which saved time as well. With wiring and door coring it could easily have taken eight hours or more. This was a fun, although long install. Most locks don't take this long to install. However, after learning the art of installing this lock, the hard work can quickly turn into a very profitable endeavor.

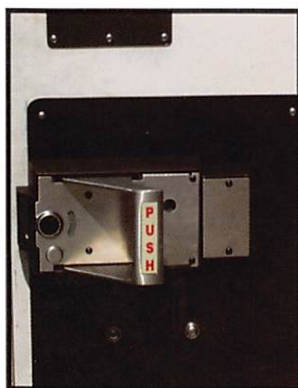


Photo 12



Photo 13

The LKM7000 lock is interesting. It truly fills the gap between safety and security. Meeting life safety and security in one package is something others have tried before but have not been able to obtain with a security blessing from the GSA. The federal government allows for variance of the codes. Often the fire marshall or safety inspector is overruled by the security requirements on federal properties. They are willing to accept two locks on an exit door. The government contractor, on the other hand, must live by the more stringent codes and cannot have two locks on exit doors. This lock solves the problem. I'm certain as time goes on and the federal inspectors, both safety and security, see the LKM7000. It will become the only door lock used for securing our government secrets.



Photo 14

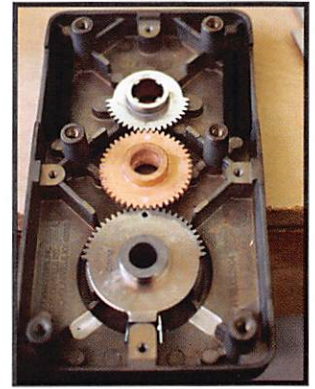


Photo 15

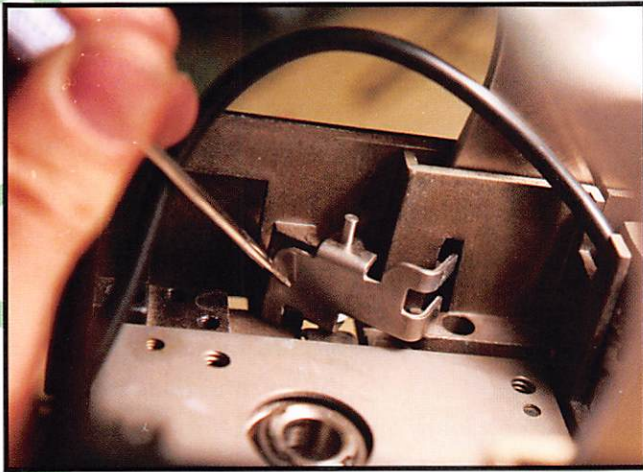


Photo 16

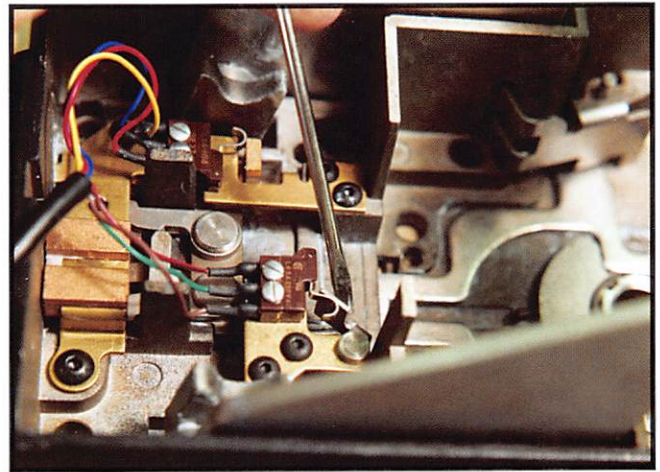


Photo 18

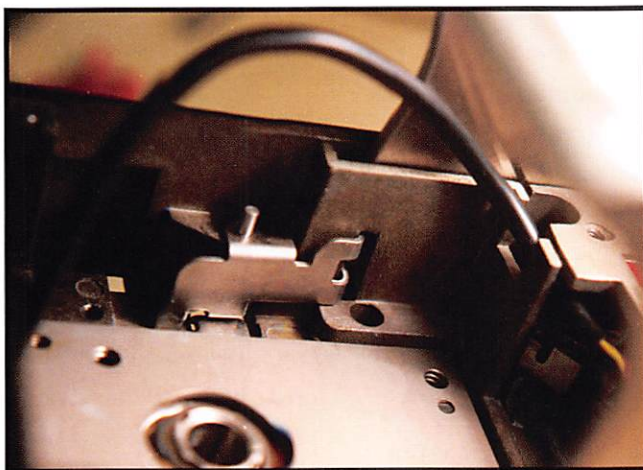


Photo 17

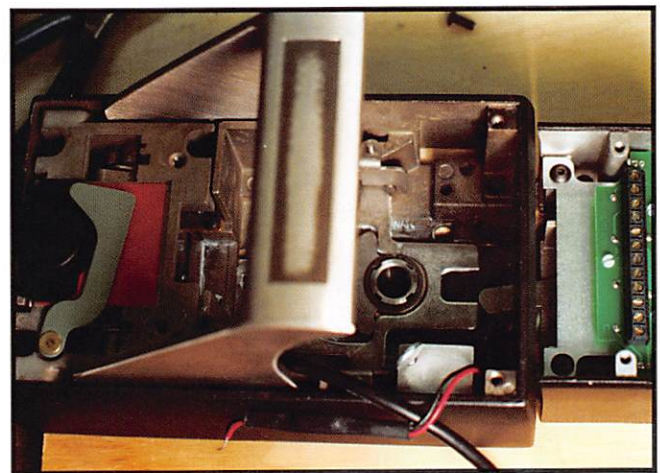


Photo 19

Opening Day at the ALOA Security Expo

by Claire L. Cohen, CML



A crowd had already started gathering near the registration area around 8:00 a.m. on the opening day of the 2004 ALOA Convention and Security Expo. Eager to begin the day's activities, those who had come to Baltimore wanted to waste no time waiting in line. Next to the registration booth, ALOA volunteers handed out ribbons and the 2004 ALOA lapel pin to adorn name badges. Who would have the most ribbons hanging from their name badge today?

Standing in the huge lobby of the Baltimore Convention Center, ALOA members from all over the world converged. "How have you been?" "Glad to see you!" could be heard echoing the halls. Fellow convention attendees from years gone by were anxious to renew acquaintance. A long-time ALOA member summed it up by saying, "although you may not have talked to someone for a couple of years, when you see them at the ALOA convention, you pick up your conversation as though you saw them last week."

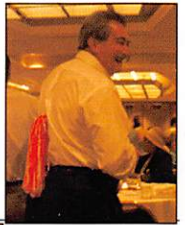
For some, this was their first ALOA Convention. Other seasoned veterans, proud of their past attendance, wore hats, vests or shirts decorated by label pins souvenirs from past Conventions.

The CML and *Keynotes* Breakfast was about to begin. Sitting at round tables, members quickly introduced themselves. The invitation-only breakfast was conducted by David Lowell, CML, CMST. A very informative meeting included statistics on PRP certifications as well as a discussion of plans for the future of the program.

Bruce Carey, CML, CPS, a locksmith from northeast Pennsylvania, had come to the CML Breakfast enthusiastic about a class he had just completed the day before. The class, Advanced Masterkeying, was taught by Jerome Andrews, CML. Prior to attending the ALOA convention, Bruce had been challenged by a Pennsylvania school system to solve a masterkey problem. The school was using large format Russwin high security locks.



VIEW the entire collection of ALOA 2004 Convention and Security Expo **PHOTOS** online at www.aloa.org



During the class, Bruce discovered the solution to the school problem! Now armed with more education and a good solution, he would be able to help his customer when he returned home.

Time went by quickly, and was on to the ALOA membership meeting. Goals for the future were announced and individuals were recognized for their outstanding achievements. This meeting gave members an opportunity to speak about their concerns before the entire membership.

With just a few minutes left until the start of the 2004 Security Expo, the lobby was a sea of locksmiths. The industry's biggest and best show about was to begin. Waiting to go into the huge exhibit area, all in attendance were anxious to see hundreds of exhibitors who would be showing their latest product innovations.

Finally, the awaited moment and the ribbon cutting for ALOA-2004! With large cloth bags in hand, the con-

vention floor was flooded with enthusiastic locksmiths looking and listening at each booth. Quickly everyone was seeing new products, learning about their applications, and asking questions.

As the future of locksmithing extended before the eyes, we were showered with new tools, new electronics, advanced software, innovations in safes, and a multitude of unique ideas brought to us by the experts in our industry. Bags were beginning to fill up quickly, as everyone checked out each booth and picked up literature, catalogs on CD and product samples. Who could resist all of the "freebies", entering to win door prizes and take advantage of show discounts? And this was only the first day and the beginning of the show. Two more days of trade show would give everyone an opportunity to see "the best of the best" in the locksmithing industry!



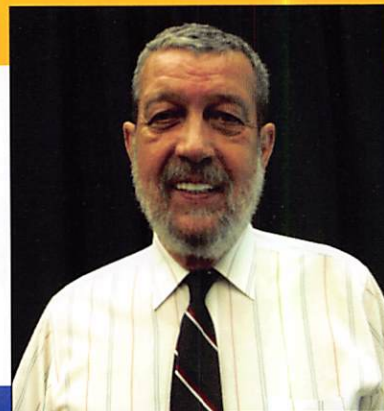
Recognition



Ray D'Adamo, CML Keynotes Author of the Year



ALOA Scholarship Stan Haney Award is presented to IR Security and Safety.



John Cannon, CML was presented with Life Membership for his service to the ALOA Board



David Thielen, CML wins the coveted ACE award



Scott Henke CPL, CPS and Robert Henke, CRL accept the President's Award.



Scott Henke, CPL, CPS received a plaque from the President for his service to the ALOA Board



Emotional Surprise

David Lowell, CML, CMST Wins ALOA's Highest Honor

This ALOA Lifetime of Outstanding Achievement (ALOA) Award recognizes one of the many deserving people who spend a large part of their lifetime helping their colleagues. These people should be recognized for their achievements in the fellowship of locksmithing. In a speech by Bob Stafford, CML, David Lowell, CML, CMST was described as calm under pressure. "Even though he's had his ups and downs, he has always handled it in a calm and soothing manner. For years, he has spent long days, nights, holidays, and weekends defending and fighting for the rights of locksmiths."

By the numbers ...



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participants



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international
attendees from
29 different
countries all
around the
world.



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U.S. states
were repre-
sented,
including
Puerto Rico.



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students
attending
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each day.



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hours of
professional
instruction.



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raised by
auction for
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Electronic Safe Locks: Motors and Solenoids

by Brian Costley, CML, CMST

Editor's Note: The following article appeared in the July/August 2004 issue of Keynotes®. Due to a new software conversion technique, all of the numbers were deleted from the article. We apologize for any confusion and now present the article in its entirety.

In the world of electronic safe locks, there is a confusing plethora of features and functions, but the job of physically blocking the safe's boltwork is usually accomplished by either a motor or a solenoid. Why two blocking systems? Well, why were there both roller fences and drop levers in the heyday of mechanical safe locks? The answer is obvious. Each system has its strengths and each offers something different to the end user.

Sargent & Greenleaf's first foray into electronic safe locks some twenty years ago resulted in a futuristic time lock known as the ETL, or Electronic Time Lock. It used a primary and secondary backup motor to move the blocking bolt.

The company's initial attempt at producing an electronic safe lock resulted in the 6100 ECL. It used a large solenoid that

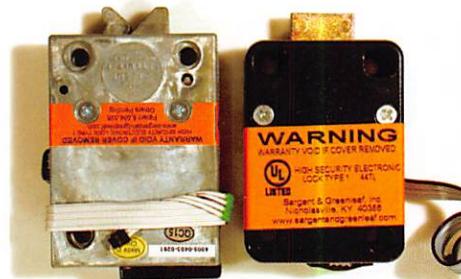
was connected directly to the lock bolt. It was very dependable, but consumed batteries rapidly. The ECL required eight AA batteries that needed to be replaced frequently. Also, the solenoid mechanism was very sensitive to bolt side pressure. As a result, the lock design was scrapped in favor of development of a motor-driven mechanism that became the 6120, introduced in 1994.

The motorized design was less susceptible to bolt side pressure than the earlier solenoid lock, and consumed significantly less power, allowing it to be operated thousands of cycles on a pair of alkaline 9-volt batteries, conveniently housed under the keypad. Mind you, the 6120 still was finicky in the presence of bolt side pressure, but the effects were noticeably reduced. These two advancements made the motor-driven design the mechanism of choice at that time.

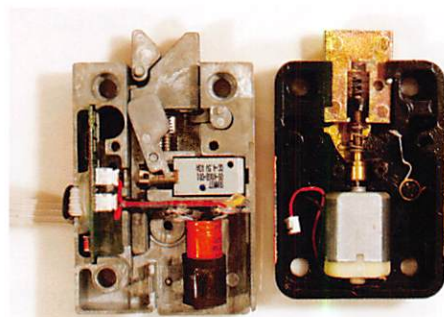
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In the intervening ten years, the 6120 has undergone a host of engineering revisions, the most sweeping some three years ago. The most significant change in the history of the product was implemented at that time. It involved the addition of a deadlocking system to increase the lock's security and protect the drive mechanism from damage caused by mechanical shock, end pressure, and less than perfect installations. It marked a major stride in increasing the performance and durability of the 6120. Also benefitting from the enhancement was the model 6123, which shares the same mechanical design, but incorporates more sophisticated electronics to provide for more programming capabilities.

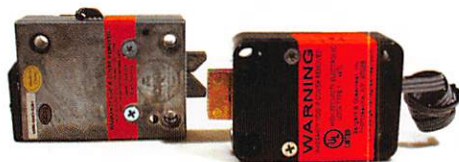
Ten years after the introduction of the 6120, Sargent & Greenleaf has released the Z02 Rotarybolt™ lock. Technically, we can't say it's S&G's first solenoid lock, even though it's the first lock of this design offered for sale by the company.



The new Rotarybolt Z02 compared to a current production 6120 lock.



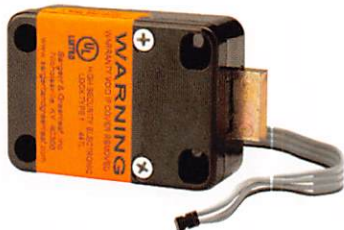
Covers have been removed to reveal the inner workings of both locks. Note the solenoid in the Z02 and the motor mechanism of the 6120.



S&G's new Rotarybolt Z02 lock on the left, and the current model of the 6120 on the right.



The very first production model of the Sargent & Greenleaf 6120.



A current model 6120. Note the bolt-through cover. This model incorporates a deadlocking bolt.

The Z02 is, in many ways, a radical departure from the other locks in S&G's line. The obvious difference, of course, is the use of a solenoid mechanism to block the bolt. The lock bolt is designed along the same lines as the latch found on better grades of mortise door locks. Once the solenoid is released by entering the correct code for the lock, pressure of the safe's boltwork against one component of the lock bolt causes the other component to move into the lock case. This arrangement leads to very smooth operation and extended life.

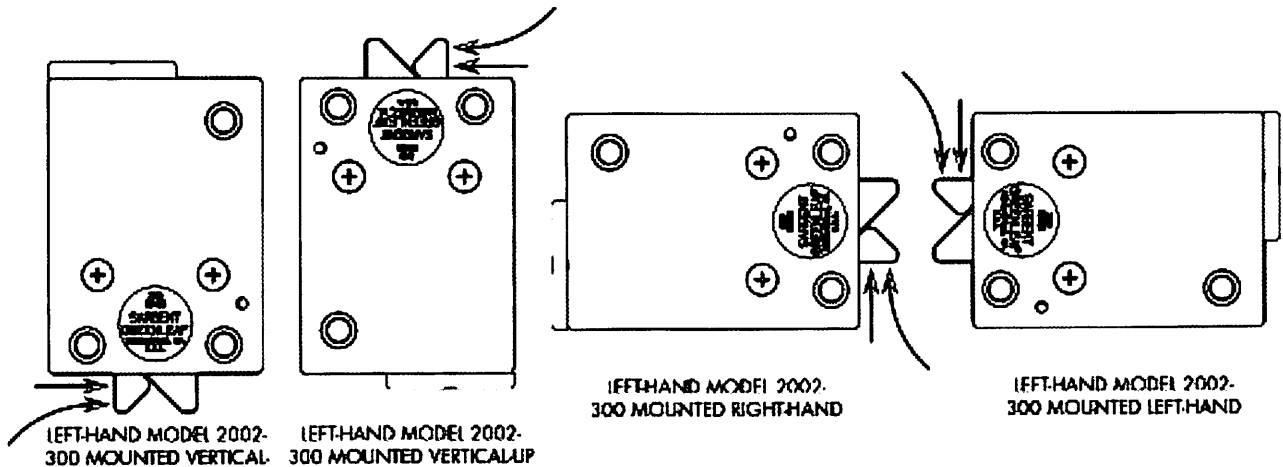
The solenoid design is very efficient. It lets the Z02 operate for approximately 8,000 cycles on a single alkaline 9-volt battery. In comparison, the 6120 will open and close about 8,000 times on a pair of 9-volts. In both cases, the cycle fig-

ures are for locks that do not utilize time delays. This feature draws additional power, and the increased draw is a function of the time delay duration. In other words, longer time delays eat up more battery life.

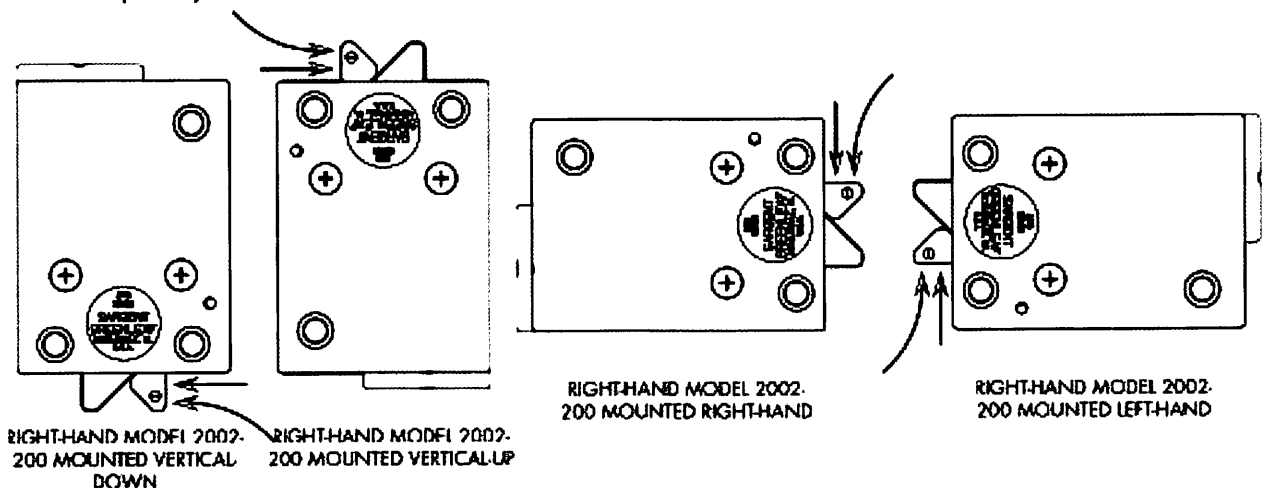
Due to the bolt design, the Z02 is a handed lock, and is available in both left-hand and right-hand models. The following diagrams explain which is required for the four standard mounting configurations that are used in all safes currently manufactured.

The Rotarybolt Z02 can be used with any keypad currently used with the 6120 and 6123, which includes both one-battery and two-battery models. The one-battery keypad is a natural for the Z02 because of the lock's low current draw.

The four locks immediately below are all the same left-hand model (Model 2002-300 Rotarybolt Z⁰²). Each is shown in one of the four standard mounting positions. Each is depicted as it would be seen by looking at the back (inside) of the safe door.

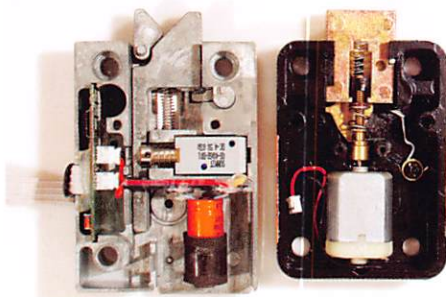


The four locks immediately below are all the same right-hand model (Model 2002-200 Rotarybolt Z⁰²). Each is shown in one of the four standard mounting positions. Each is depicted as it would be seen by looking at the back (inside) of the safe door.

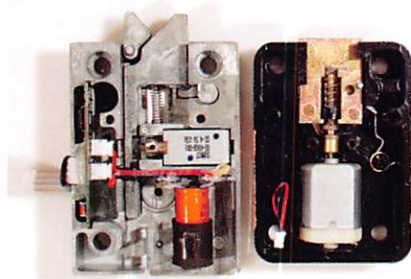




The one-battery keypad with slide-out battery compartment.



Here, the anti-shock component of the Rotarybolt Z02 has been removed to provide a clearer view of the solenoid plunger.



The solenoid of the Z02 has been moved to the unlocked position, and the 6120's bolt has been fully retracted.



The Rotarybolt Z02 paired with S&G's one-battery keypad.

In this application, the keypad offers a couple of important consumer advantages. First, it makes changing the battery extremely easy and quick. Just pull out the battery compartment, drop out the depleted battery, install a fresh one, then slide the compartment back into the keypad's base. The entire process takes less than five seconds.

The other advantage (and it's a big one) is that the end user has no access to the lock cable. This eliminates the possibility of cable damage during battery changes.

The Z02 footprint is just slightly larger than that of the 6120 and S&G's standard mechanical safe locks, so it's an easy retrofit in most safes. Also, the three mounting screw locations conform to S&G's Magic Module concept. That means that a safe's mounting plate which has been prepared for a 6730 or 6120 will also accommodate a Z02 without drilling and tapping new mounting screw holes. Metric M6 and X 20 mounting screws are provided with the lock.

When it comes to software features, the Z02 is loaded. It's programming is exactly like that of the S&G 6123 motorized safe lock. Features include:

- **Management Reset Code**—Each lock is shipped with a pre-programmed MRC so that control of the lock can be regained if the master code is lost or forgotten.
- **Lockout Penalty Timer**—Random code entry attempts are discouraged by a five minute lockout timer that activates if four or more incorrect codes are entered in a row.
- **Master Code**—Performs all programming of the lock without the need for any external devices.
- **Supervisor Code**—Sets, changes, and deletes user codes, but cannot tamper with time delay features or the Master Code.
- **Five User Codes**—Holders of these codes can open the safe and can change their own codes.
- **Time Delay Override Code**—This special code is not subject to time delays, and can be programmed to work in a supervised or unsupervised manner.
- **Three Modes of Operation**—Single User Mode requires any single code to open the lock, Dual User Mode requires two valid codes to open the lock, and Supervisor/Subordinate Mode (sometimes referred to as Manager/Employee Mode) requires the lock to be activated by the Master or Supervisor Code before User Code holder can open the safe. Similarly, the lock can be deactivated by the Master or Supervisor Code holders.
- **Time Delay**—Delays of up to 99 minutes can be set, and the Time Delay Opening Window can be set from two to nine minutes.

The latest addition to S&G's lineup of electronic safe locks offers yet another choice in the profitable quest to give customers what they want—the convenience and power of electronic safe locks.



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Continuous improvement and smart design are a way of life at S&G. Improvements like our new deadlocking capability that provide an even higher level of security and durability in boltwork blocking applications.

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legislative update

Convention Update

ALOA's 2004 Convention was huge success for the Government Relations Department! I enjoyed having all of you stop by the booth to ask questions, talk about legislation and grab a few bags of free popcorn. Our legislative meeting was not only well attended, but very productive. We had a chance to go around the room and hear the issues and concerns facing locksmiths all over the country. Based on the feedback I received at both the booth and the meeting, I will be carefully crafting a plan of action for the coming months.

Without a doubt, the legislative highlight of the convention was a meeting with automobile manufacturers. For those of you unfamiliar with our current situation, ALOA has started the process of very detailed discussions with these automobile manufacturers. These discussions are intended to help us attain access to key codes, transponder codes, tools, etc. which are required to return a locked-out car to driveability. Almost every major manufacturer was represented either in person or via teleconference at this meeting. A major result from Baltimore was that locksmiths and their automotive issues were officially recognized through the formation of a locksmith sub-committee of the National Automotive Service Task Force (NASTF). I am proud to say that I will be acting as co-chairman of this group.

Many manufacturers stayed after the meeting and toured ALOA's show floor. One manufacturer remarked to me how impressed he was by the professional appearance of everything. His newfound respect for ALOA and the work we do, will go a long way in helping us accomplish our goals.

We have set up a teleconference with the manufacturers for September and will be attending the NASTF meeting in early November.

Association Health Plan Legislation UPDATE:

Key Senators Weigh-In on Association Health Plan Bill

The outlook for Senate consideration of the Small Business Health Fairness Act (S. 545) during the remainder of the 108th Congress remains in doubt as Congress recessed for the summer. During July, the legislative process in the Senate ground to a virtual halt as election-year political posturing completely dominated the nation's capital. Even legislation with 60 or more pledged votes was blocked due to the desire of Senators from both parties to offer "political" amendments to bills on the

Senate floor. When Congress returns in early September, with the Presidential and Congressional elections in full swing, the Senate's agenda is likely to be driven largely by the dynamics of the political campaigns leading up to the November 2nd elections.

Health reform issues continue to be a hot topic in Washington, DC, as public opinion polls show that concerns over access to affordable health benefits will be a major issue in this year's election campaigns. On July 12, Senate Majority Leader Bill Frist (R-TN) gave a major health care policy speech, in which he laid out his "vision" for the future of the U.S. health care system. It is clearly a positive sign that AHPs are included in Senator Frist's vision of the future of health care. In his speech, Frist said that, "when we look at cost and affordability, I would give individuals in small businesses that purchasing clout. And you do that through establishing purchasing pools, you do it through what is popular here legislatively, and that is association health plans." While Frist has not given any firm indication of how or when he would pursue specific legislation on the issues outlined in his speech (including the AHP legislation), it is certainly an encouraging development to see the most influential Republican on health care issues, other than President Bush, speaking in favor of the AHP legislation!

Meanwhile, Senator Judd Gregg (R-NH), Chairman of the Senate Health, Education, Labor and Pensions Committee, expressed concerns about the AHP bill in a letter to the editor of the Manchester, New Hampshire, Union Leader on July 29. Gregg's letter stated that, while the concept behind the AHP legislation "has merit, the problem is in the details." Gregg further said that he "is putting finishing touches on a bill that captures the benefits of AHPs without the controversial elements," by which he presumably is referring to his "insurance market reform" proposal that was outlined in the Senate Uninsured Task Force report released in May. An earlier news article in the Union Leader quoted a Gregg spokesperson as saying the Senator "opposes" AHPs because the bill would "allow some insurers to charge their employees much higher rates than others." A July 30, 2004, article in the Bureau of National Affairs Daily Report for Executives repeated the statement that Senator Gregg is opposed to the AHP bill and will offer alternative legislation (see attached articles).

It is extremely disappointing to learn of such comments from Senator Gregg, especially when they appear to reflect a lack of understanding about the specific provisions S. 545. Gregg's comments come at time when several organizations have requested meetings with the Senator and/or his staff to discuss the specific details of the bill. It is frustrating that Senator Gregg

continues to refuse to discuss how the AHP bill might be amended to address his concerns. Organizations are encouraged to re-energize their grass roots efforts with Senator Gregg in New Hampshire.

There will likely be substantial activity in Washington, DC, on health care issues this fall. First, in early September, the Kaiser Family Foundation is expected to release its annual health benefits study, which will include information on insurance premium increases. Information showing a continuing trend of substantial premium increases among small and medium-sized employers will be helpful in making the case to Congress that the AHP legislation is needed to combat the ever increasing cost of health benefits. In late September, the U.S. Census Bureau is expected to release the number of Americans who were uninsured during calendar year 2003.

The magnitude of the growth of the uninsured will surely be the subject of much discussion within the context of the election campaigns, and could provide a further impetus for the Bush Administration to increase the pressure on the Senate to take action on the AHP legislation. Thus, opportunities for activity in the AHP legislation could arise in the fall. In addition, there is a good possibility of a lame-duck session of Congress after the elections, and this also could present opportunities for legislative action.

With Congress in recess, the month of August provides great opportunities for grass roots efforts with Senators. Most Senators will be in their state offices for a considerable portion of August, and now is a good time to request a meeting to discuss their position on S. 545. In addition, organizations should have their members send letters or make calls to Senators in their state offices. Such contacts should request that the Senator become an official cosponsor of S. 545, or at least provide a firm commitment to vote for the bill in the event that it is brought up on the Senate floor.

President Bush is expected to unveil a new health reform proposal at the Republican National Convention, which begins at the end of August, as part of his reelection campaign. However, it is expected that President Bush will continue to make enactment of the AHP bill one of his top health care priorities as he campaigns in the fall. The 2004 Democratic Platform, approved at the Democratic Convention in late July, does not mention the AHP legislation.

Regards,



Paul Kanitra
Government Relations Manager
Associated Locksmiths of America

LEGISLATIVE ACTION NETWORK

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The ALOA Legislative Action Network is constantly working to influence legislation that's important to the locksmithing profession. We are working in your best interests to promote legislation that will have a positive impact on our proud profession; while preventing or limiting legislative efforts that are harmful. To continue, we need your help to ensure the success of our legislative program for 2004!

If you contribute \$25-\$99.99 to the Legislative Action Fund, you automatically become a member of the Legislative Action Network (LAN). The LAN is an important tool in raising the standards of our profession through the legislative process by making sure that locksmiths have the final say in how our industry will be run. As a LAN member, you will receive:

- The Legislative Action Network Update alerting you to important legislation in your state and around the country.
- Networking opportunities with ALOA members who share the belief that legislative involvement is important to the effectiveness of our association.
- A listing of your state representatives and senators including capital and district addresses, and phone and fax numbers on both hard copy and disk.
- A comprehensive guide to lobbying in your state capital, so you can be the "voice of ALOA" to legislators.
- LAN stationary and envelopes for sending official letters to legislators, lobbying on ALOA's behalf.
- A lapel pin designating you as a special ALOA LAN member.
- Recognition in Keynotes magazine.
- An invitation to an exclusive reception at the annual ALOA convention for LAN members.

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Classifieds

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BUSINESS FOR SALE

Colorado Commercial Locksmith Business (Est 1974) located in vibrant golden triangle, adjacent to downtown Denver. Includes vans, equipment, inventory, and loyal customer base. Building also available with additional rental income capacity. Serious inquiries: Mr. Jones (Agent), 1420 Jamaica Street, Aurora, CO, 80010-3498, Fax 303-573-9099.

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Framon #2 never used, HPC 1200 110&12 Volt with code cards, ILCO 017 like new with extra cover, HPC code books, Curtis Clipper with extra cams and carriages, MK1 and MK2 Code Cutters and component parts, ILCO Speedex, Curtis Key Machine with double tower, Russin Pinning Kit, Corbin Pinning Kit, Kwikset/Titan Pinning Kit, GM-Ford-Chrysler Pinning Kit, Professional Universal Pinning Kit, Foley Belsaw Key Machine, Assorted Keys worth about 2000.00, Stamp ses letters and numbers, EEZ Readers for 12 makes of vehicles, Rescon Set, 2 Cases for tools, various auto opening tools. 2500.00 Firm. Contact Howard J Perry, Franklin St Box 465, Hallstead PA, 18822-0465, 570-879-4476 or 570-879-2248.

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Sarasota Lock & Key Shop—Sarasota's oldest Lock & Key shop. Owner wishes to retire in October 2004. \$40,000 for inventory and equipment. Includes registered fictitious name. New owner will have to relocate as building will be sold separately. Inspection invited M-F, 9a-5p. Contact Pete at 1537 State Street Sarasota, FL 34236 • Phone (941)953-3773

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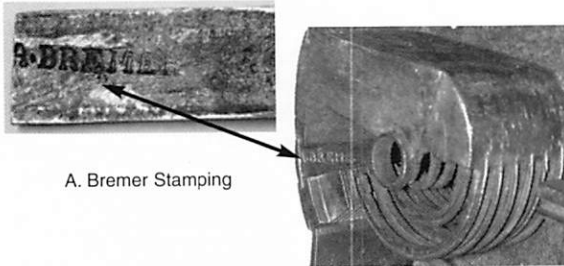
French Masterpieces Part 2 of 2

by AJ Hoffman, CML

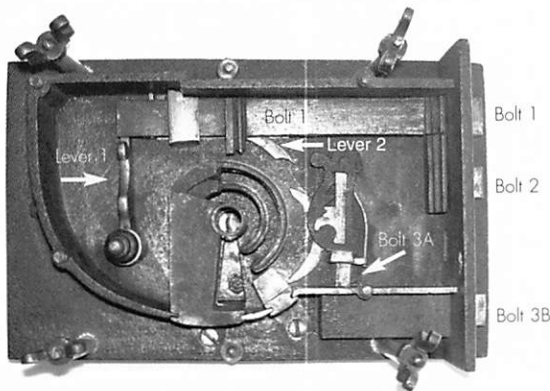
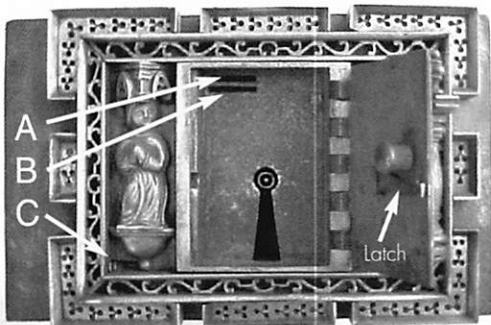
The Bremer Masterpiece

My masterpiece lock turned up in Amsterdam with its original key. Unfortunately it had not been well cared for and has quite a bit of pitting from rust.

A. BREMER is stamped on the piece which joins the comb wards to the piercing wards. Since it is easily removable, this may be a locksmith who repaired this lock, rather than the name of the original master who made it. A few internal parts are not original and it looks as if one of the four bolts was removed and its hole in the edge of the lock plugged.



A. Bremer Stamping



Bremer Lock With Back Cover Removed

Operating Instructions

Press the central religious figure upward against spring pressure. This raises a latch so you can pull the door open to reveal the keyhole.

Turn the key clockwise to lift Bolt 3A out of engagement with Bolt 3B. This frees Bolt 3B for retracting by sliding Lever C.

Continue turning the key clockwise to lift Lever 2, releasing the deadlock so Bolt 2 can be retracted simultaneously as Bolt 1 is drawn back directly by the key's final movement. Bolt 1 is under spring pressure from Lever 1 and extends automatically as you turn the key back.

Bolt 3B is key retaining. If you slide lever C to retract it, you cannot turn the key all the way back to the removal position because the key needs to throw bolt 3A on its return trip. Bolt 3A cannot be thrown until Bolt 3B is thrown.

Throw Bolt 3B with Lever C.

Turn the key back to the key pull position and remove it. Bolt 1 springs back to its projected position after losing contact with the key bit.

At this point, Bolt 1, although square, acts as a spring latch. You can retract it as often as you like by sliding Lever B. Bolt 2 remains retracted.

Slide Lever A to project Bolt 2. As it clicks into the locked position, it also deadlocks Bolt 1 so you can no longer retract it with lever B. Now all three bolts are deadlocked. This operation makes no sense to me and is probably the result of jerry-rigging ages ago by whoever removed the fourth bolt.

The Bremer masterpiece lock is too large to show actual size. It is 8 3/16" x 5 1/8" (25.2 cm x 13 cm) and weighs over 9 pounds (4.2 kg).

A.J. Hoffman Collection



My thanks to Bob Heilemann who fabricated two missing parts and restored this lock to full operation.

Editors Note: Anthony J. Hoffman, III passed away suddenly due to heart failure on Sunday, July 11, 2004 at a favorite beach near his home in Mission Viejo, California. AJ was a world renowned expert on antique locks and the history of interchangeable core cylinders and key systems. Fluent in six languages, AJ was also an accomplished linguist and musician, singing tenor and providing pronunciation guidance for Pacific Chorale, one of America's most respected and accomplished professional choruses. He is survived by his wife Vivian.





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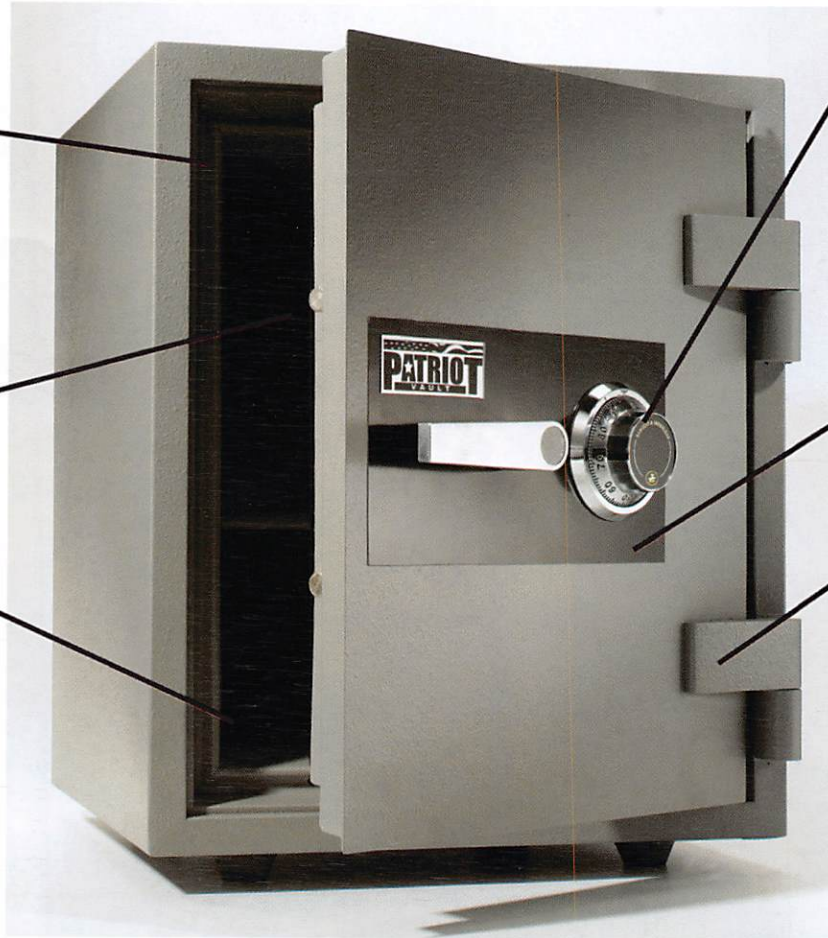
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BOLTWORK:

3-way boltwork system includes six massive 1" diameter chrome-plated solid steel bolts

ADDITIONAL FEATURES

Light gray finish is accented with black facia plate. Adjustable shelving included in each safe. Safe comes mounted on 4 rubber feet (removable) which raise the safe 1 1/8" off the floor. Pre-drilled bolt-down hole.



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UL-listed high security Group II Sargent & Greenleaf combination lock. Drill-resistant steel hardplate protects the internal lock mechanism.

RELOCKER:

Independent spring-loaded relocker activates during burglary attack, securing the boltwork in locked position.

HINGES:

Heavy duty, adjustable solid steel block hinges provide additional security and smooth operation

OPTIONS:

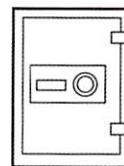
Electronic digital pushbutton locks. Additional shelving available.

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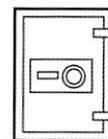


UL Class 350 1 Hour Fire & Impact Rated

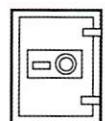
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