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High Security

The New Medeco3 Imp

Plus: Building the Perfect ALOA Va

Fearsome Maximus and a Diebold

Tryout Keys on the Ford Explorer, Loc

Part 1 and more

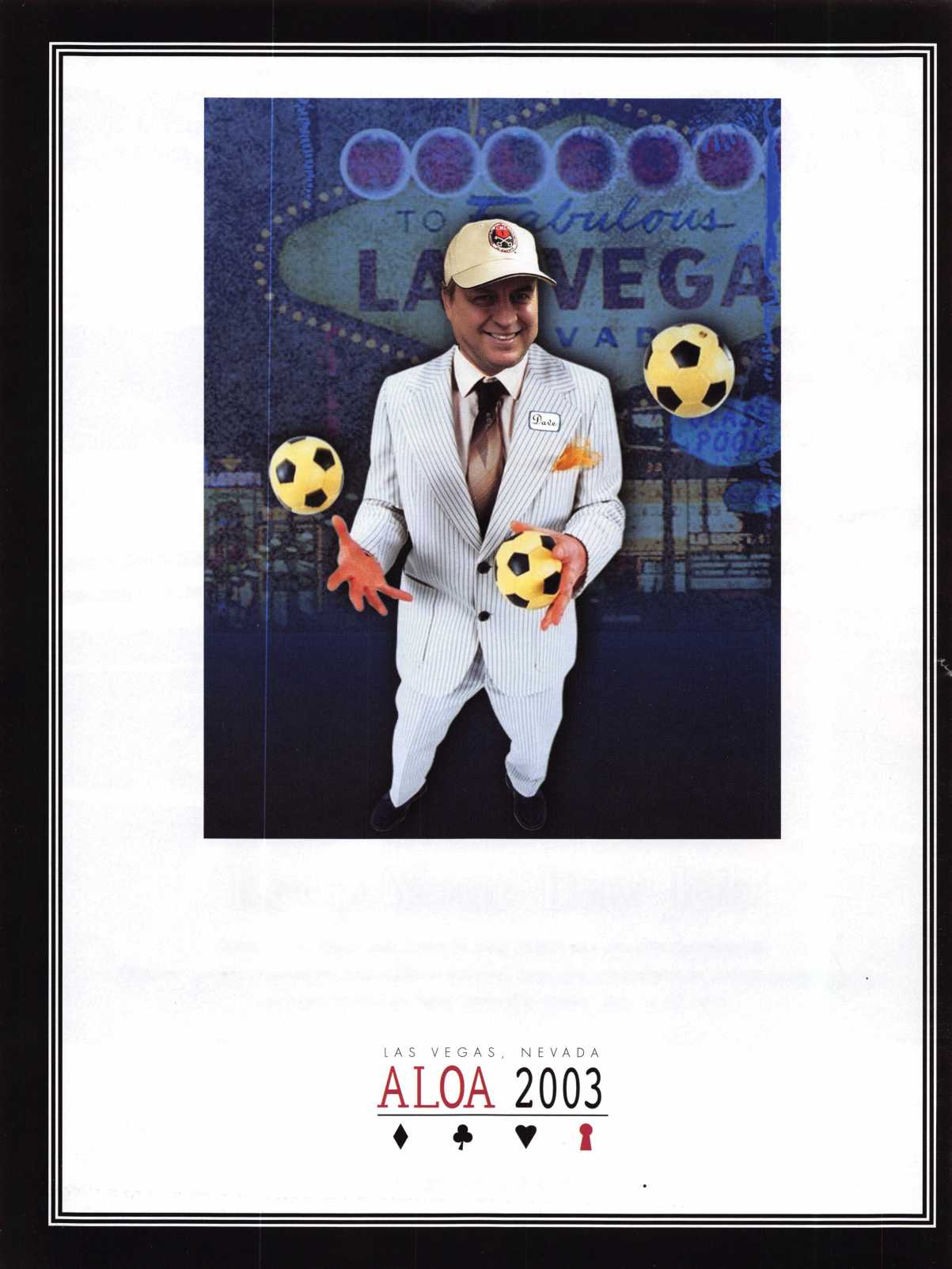


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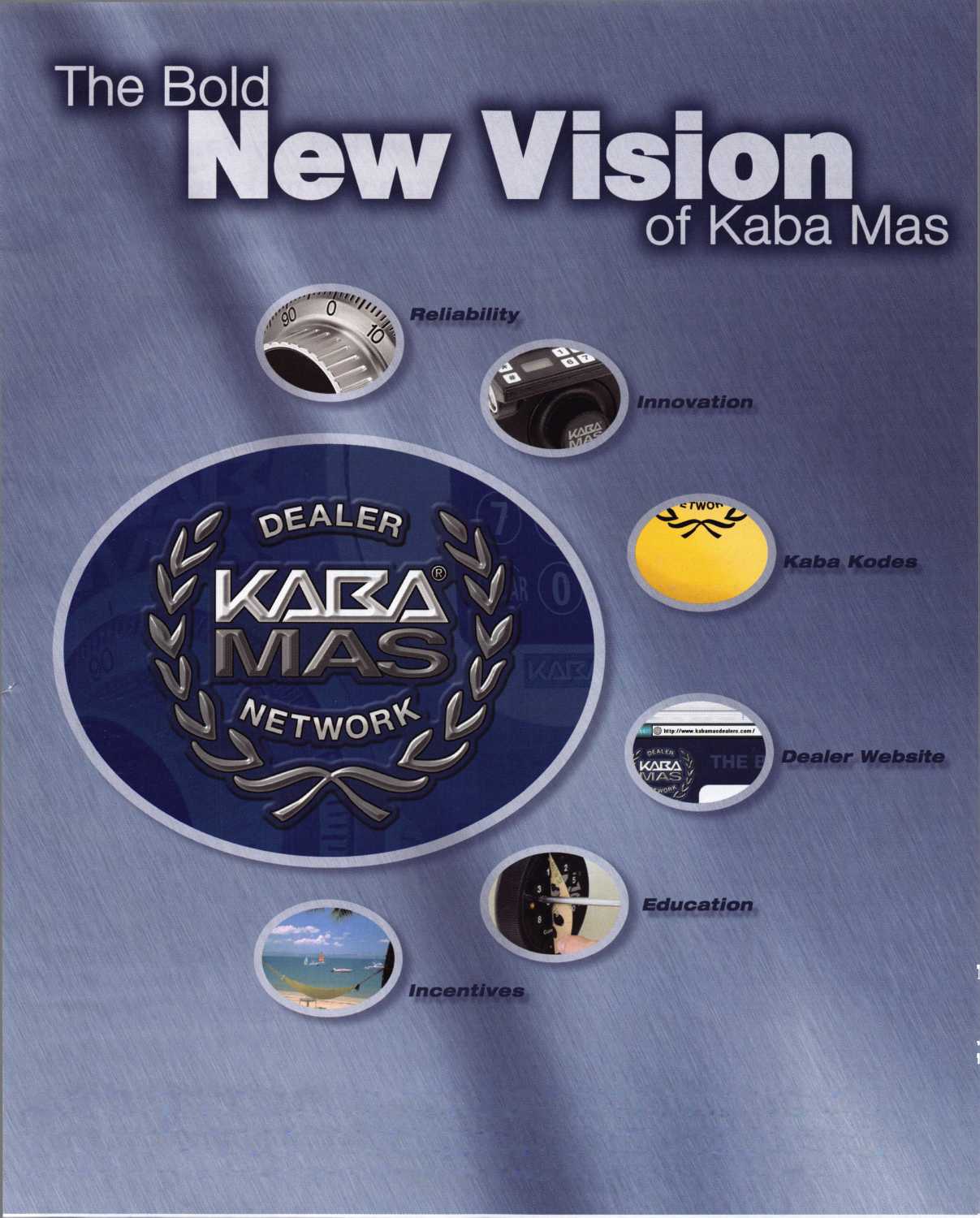
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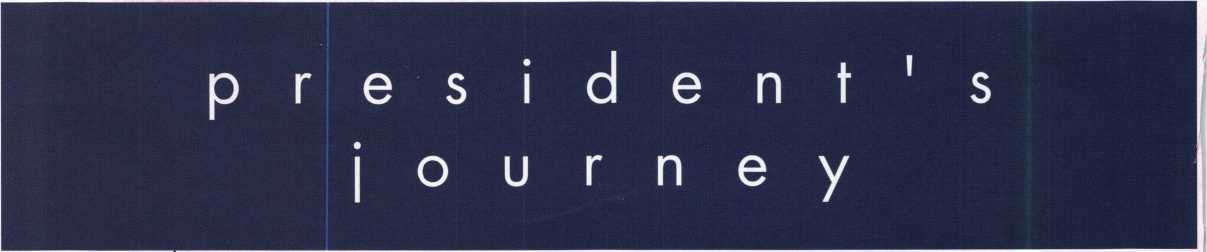
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Why do we call it High Security anyway?

When high security locks were first introduced over 40 years ago, the distinction in the name was made purposely to distinguish the leap in quality between these new products - which provided increased pick resistance, physical attack and patented key control - and the traditional locks, whose basic design had been around since Linus Yale, Jr. patented the pin tumbler locks in 1851, which couldn't stand up to a surreptitious or physical attack nearly as well.

But as we know all too well, times change. Today's market doesn't demand a mere distinc­tion between two types of lock products. Our customers are busy people who simply do not have the knowledge that we have. They require that we provide them with the proper information so that they can make good, sound purchasing decisions based on the knowl­edge that we provide for them, their companies and their families. High security key con­trol products have ceased to be some crazy new innovation. On the contrary, they are the current standard (UL 437, in fact), for an acceptable level of security in our industry. I would consider it a failure if I sold anything less than a patented key control, high security lock to any customer; it would mean I failed to adequately communicate the solution for their security needs to them.

So the introduction of the concept is over. Patented Key Control, High Security should be considered the standard security in today's day and age. We as ALOA Professional Lock­smiths have a responsibility to move this industry forward, and one of the best ways to do it is to insist that your customers use high security (read "standard security") products.

Thanks,

Randy Simpson, CML



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Cover Story - High Security Rising bx Greg Perry, cml,cps

Medeco3 is here and no new pin kits or key machines are needed. (Thank  
you, Medeco!) Medeco has developed a new product to address the impend-  
ing patent expiration of Biaxial in July, 2005. Let's take a first look at it.



The Ultimate Weapon in Locksmithing  
A Killer Service Truck by Ed woods, crl,cps

First things first: Let's thank the ALOA Scholarship Foundation for the great door  
prize at the 2002 convention. Yeah, this is the van they GAVE away last year  
as a door prize. Also, let me thank KNAACK-WEATFHERGAURD for the dona-  
tion of the interior and cabinets. Don Rule, CML, from ALOA and Jack Daniels  
from KNAACK both worked with me to transform the van and interior into a  
killer service truck. First, we bumped the E-150 up to and E-350 Super Cargo  
van. FHere's how we filled it out.

**22**

Automotive: Tryout Keys and the

2002 Ford Explorer By Red Howell, RL

There are several different approaches or options for making a key for this vehicle. The following lists a couple of options when making a key: impression- ing, disassembly or using tryout keys. Impressioning causes stress on the lock and disassembly is time consuming and increases the risk of damage. Let's take a look at using tryout keys instead.

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Safes: Diebold's Fearsome Maximus

By Greg Perry, CML, CPS

It's a name that strikes fear into many safecrackers' heart. I spoke with a Diebold technician from central California who said he only knew of one man in the whole country who could open a Maximus, SAVTA president Skip Eckert, CML. I can think of many others, but the Diebold technician gives you an idea of how difficult some feel this safe might be to open if something goes wrong.

**28**

Locksmith Liability Part 1 By Marc Tobias

The following two-part series summarizes potential liability issues that can con­front the locksmith. Part I concentrates on general liability associated with more traditional tasks.

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Diebold MONEY COMPARTMENT DOOR

By Merritt Perkins, RL

This article examines the door to the money compartment inside a Diebold bur­glary-resistant safe. The door is 6 inches wide by 12 1/2 inches high with the dial of the combination lock near the top. In the center is a key operated lever tumbler lock. Let's take a look at it.

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executive

Volume 49, Issue 6

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Keynotes® (ISSN 0277 0792) is published monthly except for the combined June/July issue by The Associated Locksmiths of America, Inc., 3003 Live Oak St., Dallas, TX 75204-6186. Telephone: (214) 827-1701; FAX (214) 827-1810; e-mail [aloa@aloa.org](mailto:aloa@aloa.org). Subscription rates for members—$15.00 per year. Business class postage paid at Dallas, Texas. POSTMASTER: Send address changes to: Keynotes, 3003 Live Oak St., Dallas, TX 75204-6186. © Copyright 2003, All rights reserved. No part of the contents may be reproduced or reprinted in any form without prior written permission of the publisher.

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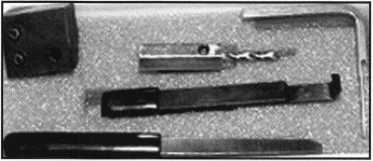
Apprentice Membership (AP) applicants have worked in the industry less than two years.

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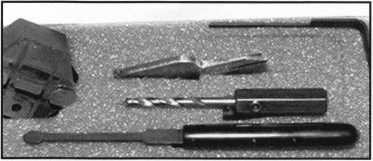
Universal Ford Flush-Mounted/Chrysler 8-Cut Ignition Removal Kit #U1 (patented)

Use this tool on all Ford flush mount ignitions, with or without side bar, large and small diameter face, all types of focus locks. With adapter, you can do virtually all Chrysler, Dodge, and Jeep 8-cut ignitions with no damage to lock. Similar kits sell for over $100.00 and only do Chrysler. Fit key and replace. In less than 5 minutes, you will have them out. Kit includes: 1 force tool (to remove face); 3 drill & arbors; 3 drill guides for all access holes; side B AR pressure tool; turn wrench; tumbler holding tool (to assemble and disassemble). No other tool needed with this kit. SFIOW SPECIAL: get free adapter for Chrysler, Dodge and Jeep with each kit. $155.00 +$6.00 S&H



1998 Up G.M. In-Dash Ignition Removal Kit (patent 5454245)

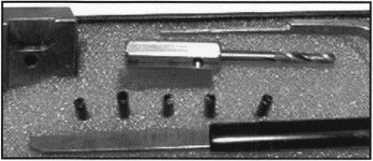
Remove plastic ring and chrome cap in seconds. Make access hole to pick side bar. Turns cylinder to ACC position to remove lock in less than 5 minutes with no damage to lock. Your first job will pay for this kit. $70.00 + $6.00 S&H



1996 Up Ford 8 Tumbler Ignition Removal Kit and Side Bar Breaker Tool

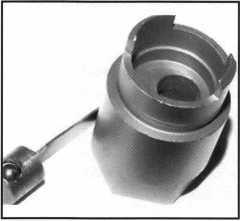
(patent 5701773)

Use force tool to turn ignition to “on” position in less than 60 seconds. To start car or for fast ignition lock removal or use kit to push side bar in, turn cylinder to “on” position for fast removal without any damage. Fit key, replace same lock. $90.00 + $6.00 S&H



1994 Up G.M. 9 Tumbler Ignition Removal Kit (patent 5454245)

The locks have longer side bars than the older type and must be in the “on” position to remove. This kit will do that with no damage to the lock. Fit key and install same lock. Does all types, vats, mrd, top hat, module, etc. Your first job will more than pay for this kit. New with update to do module locks, blazers, suburbans, pick-ups, etc. $80.00 +$6.00 S&H



Ford “Quick-On” (patent 5454245)

Now turn all 10-cut ignition cylinders to the “on” position for fast removal-in less than 60 seconds. Sable, Taurus, all styles even those with airbags. No damage to housing.

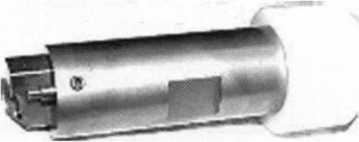
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No-Nonsense Squeeze Lock Plug Remover

(patent 5165158)

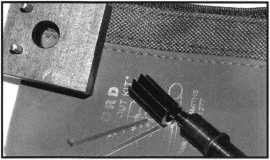
Now you can remove all squeeze lock plugs in 15 seconds or less from all GM, Ford, Chrysler, AMC, and Jeep. No more fumbling, gadgets, cut fingers, broken tabs, or the need for 3 hands! It’s so easy you can do it in the dark while it’s still in the glove box.

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Ford “Disc-Out” Kit (patent 4682308)

This kit will remove those stubborn Ford pin ignitions from 1976 to present in less than 5 minutes. These locks incorpo­rate 2 locking devices and a hard steel disc across the shear line. They must be turned to “on” position to release both locking devices so as not to damage the housing. $60.00 + $6.00 S&H



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4 Ohio Valley Chapter of ALOA Membership Meeting 7pm Ryan's Steak House Mehdi Zahedi (937) 294-4241

7-8 Ozark Professional Locksmith 10 Association • Intermediate and Advance Master Keying Betty Gray 479-524-3660



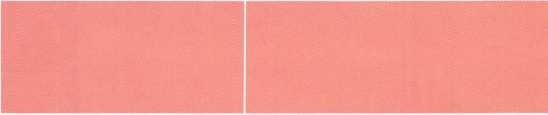
2 Ohio Valley Chapter of ALOA Membership Meeting 7pm Middletown, OH Mehdi Zahedi (937) 294-4241

11-12 6th Annual American Lock

Collectors Association Lock Show

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Jon Kolozvary 440-243-2032



Fox Valley Chapter Membership Meeting 6:00pm Columbus Club • Appleton, Wl David Clark

[daveslocknkey@greenbaynet.com](mailto:daveslocknkey@greenbaynet.com)

24

6 Ohio Valley Chapter of ALOA Membership Meeting 7pm Middletown, OH Mehdi Zahedi (937) 294-4241

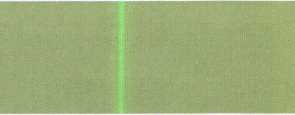
28-31 Second Annual IAIL Convention 10 Mt. Laurel, NJ Don Shiles 800-598-9491 [www.iail.org](http://www.iail.org).

Fox Valley Chapter Summer Picnic Road Outing America David Clark

[daveslocknkey@greenbaynet.com](mailto:daveslocknkey@greenbaynet.com)

San Diego Chapter of ALOA/CLA

Membership Meeting 6:30pm Linda Vista Village Clubhouse Mike Perry (858) 967-9761



UPCOMING PRP SITTINGS

6/1/2003

6/7/2003

6/8/2003

6/12/2003

6/22/2003

6/12/2003

6/22/2003

7/10/2003

7/19/2003

7/20/2003

8/7/2003

8/17/2003

8:30AM • Lewistown, MT Montana Chapter of ALOA Michael Alexander 406/549-5625 9:30 PM • Kalamazoo, Ml W. Ml Locksmith Assn.

Mark Blum, CML, CPS 517-482-5809

9AM • Fairborn, OH

Ohio Valley Chapter

William M. Lockwood, CRL

937/836-6127

8:00AM • Dallas, TX • ALOA

Janelle Ramirez 800/532-2562 X30

1 PM • Farmington, NM

New Mexico L.A.

Deborah Pipkin 505/327-7500 8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30 8:00AM • Reno, NV Clark Security Products Joan Emrick 619/718-7308 8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30 8:00AM • Las Vegas, NV • ALOA Janelle Ramirez 800/532-2562 X30 8:00AM • Las Vegas, NV • ALOA Janelle Ramirez 800/532-2562 X30 8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30 8AM • St. Pete, FL • SERLAC Ken Kupferman 800/845-5294

9/11/2003

9/21/2003

9/28/2003

10/9/2003

10/18/2003

10/25/2003

10/26/2003

11/13/2003

11/16/2003

12/11/2003

8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30 8:00AM • Anaheim, CA Clark Security Products Joan Emrick 619/718-7308 8AM • Kansas City, MO Missouri-Kansas Locksmith Assn.

Greg N. Brandt, CML816/444-3233 8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30 10:00AM • Chamblee, GA GA Chapter of ALOA John C. Elliott,Jr.,CML,CPS 770/314-7859 9:00 AM • Sturbridge, MA Yankee Security Convention Jack Hobin 800/209-8266 10AM • Mt. Laurel, NJ • G.P.L.A. Martin Arnold, CML 856/665-0464 8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30 TBD Montgomery, AL Alabama Locksmiths Assn.

Amanda Boyd 334/793-5060 8:00AM • Dallas, TX • ALOA Janelle Ramirez 800/532-2562 X30

UPCOMING ACE CLASSES

June 14

June 20-21

July 14-18

Sept. 13-14 Sept. 20-21

Sept. 26-27

November 15

Vancouver, BC (Canada)

BC Association Of Security Profsnls. Jerune Rodermond 604-607-6604 Farmington, NM • New Mexico Locksmiths Assn. Convention Deborah Pipkin 505-327-7500 Las Vegas, NV • ALOA David Lowell, CML, CMST 800/532-2562 xl8 (75 ALOA ACE Classes)

Gulf Shores, AL • AL Locksmiths Assn. Amanda Floyd 334-793-5060 Syracuse, NY • Central New York Locksmith Association Ron Smith 315-782-0912 Casper, Wyoming Wyoming Locksmiths Assn Gene Ficek, CPL 605-6424542 Montgomery, AL • AL Locksmiths Assn. Amanda Floyd 334-793-5060

**events**

25 Pacific Locksmith Association Membership Meeting 6:30pm Denny's Restaurant Tualatin, OR Dan Cunningham 360-835-1191 [www.pla-pro.org](http://www.pla-pro.org)

29 The North Jersey Master Lock­smiths Association 9th Annual Flea Market • Lyndhurst NJ Jeff Sitan at 973-777-0620 or Mr. Lascar/Hart 201-944-7547



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VEGAS 2003: VAN AUCTION

The ALOA Scholarship Foundation, Inc., will once again auction a van package at the 2003 ALOA Kickoff Party in Las Vegas. The package includes:

* A 2004 Ford E-150 V-6 Automatic
* Adrian Steel Interiors Locksmith Package
* Kaba llco Rocky Mount 045 Key Machine
* llco Advantage CD
* Magnum Pick Set
* LSDA (assorted products)
* Southern Lock and Supply (Various tools)
* Tech-Train Productions TT2050/QEHC

ALOA Open 2003

The ever popular ALOA Open Golf Tournament will be held at The Legacy Golf Club in Henderson, NV, on Thurs., July 17, 2003. The registration fee is $150 (tax deductible), and includes transportation to and from the course, greens fees, golf cart, beverages throughout the course, lunch and guaranteed prizes for each and every player. The main sponsor for the tournament this year is, once again, Yale Security Group. Other sponsors include Lucky Line Products, Inc., Strattec Security, Inc., AMSEC and Assa High Security Locks. Thank you to our sponsors for your con­tinuing support, and we hope to see plenty of convention attendees show us how it's done out there at The Legacy in July.

ALOA Code of Ethics

All members of the ALOA by acceptance and continuance therein, shall be deemed to have subscribed to the following Code of Ethics:

That the dignity of our chosen profession may be perpetuated, it is the duty of all members of the ALOA.

* To practice their profession in the spirit of fairness to their clients, with fidelity to security in conformance with appropriateness, and with high ideals of personal honor;
* To properly and impartially analyze security problems, and to advance the best possible solution for the protection of their clients;
* To conduct themselves in a dignified manner;
* To abide by applicable licensing and business regulations;
* To abstain from using improper or questionable methods of soliciting patronage, and to decline to accept such incompatible patronage;
* To refrain from associating themselves with or allowing the use of their names by any enterprise of questionable character, or in any manner countenancing misrep­resentation;
* To cooperate in advancing the best interest of the locksmithing industry by inter­change of general information and experience with fellow locksmiths;
* To encourage and promote loyalty to the profession, always ready to apply their special knowledge, skill and training for the use and betterment of our industry.

Letters to the Editor

Jimmy,

All I can say is "well done" with the Keynotes magazine. It's been refreshing to see the development and improvement. You're doing a fine job. Thank you.

Sincerely,

Tom Lynch New York

Keynotes Editorial Guidelines

1. Articles should be of a technical nature, rather than promotional. Technical articles will be of more benefit to our readers, and they are more credible. Articles that are primarily promotional are not as likely to be read or believed - just as a 30- minute infomercial on television does not hold viewers' attention for very long. Furthermore, Keynotes neither accepts nor pays for previously published material as if it were an original manuscript.
2. Articles should be of sufficient length to cover the topic adequately. Generally, this ranges from 1,000 to 1,500 word, but this can vary to individual authors' needs.
3. Copy should be typed (double space) with standard margins. Articles will be type­set to fit the Keynotes format and style. This gives the publication a consistent and professional appearance. Authors should submit copy via e-mail, or on computer disk as a Word or Text file, if possible. If not, the author should mail a clean, clear copy. FAX copies may be accepted under certain conditions.
4. Photographs should be in color, 4X6", with the captions attached to the print.

High Resolution digital photograph files are acceptable in the JPEG format, and can be submitted via computer disk or e-mail. (E-mail files are not to exceed 3 megabytes.) Amateur photographers may find it helpful to take their photographs outside - in early morning or on a cloudy day - using 100 to 200 ASA film.

1. Illustrations (graphics or drawings) can be included with your article. We prefer original art or drawings. No photocopies, sketches or "homemade" material will be used as original material. Material should be clear enough so that we can scan it into the computer. Camera-ready illustrations are greatly appreciated. Any mate­rial submitted that has been produced by another person or company must include the name of the original company with a copyright date.
2. Please submit a photograph of yourself, along with a short business biography (e.g., "Joe Q. Locksmith is the owner of Joe's Lock and Key in Upper Sandusky. He has been a professional locksmith for 15 years, and an ALOA member for 1 2 years. He teaches lockpicking and has obtained his CML designation.")
3. Solicited/pre-approved articles are due in the ALOA office by the 15th of the month, two months prior to the month of publication. For example, a solicited arti­cle for the December issue would be due no later than Oct. 15. Unsolicited arti­cles must be processed by the Publications Manager, and are scheduled upon approval, in accordance with the existing article menu. Average time to publica­tion for an unsolicited article is six months. Please indicate whether your article is time-sensitive.
4. The Associated Locksmiths of America, Inc. (ALOA) reserves the right to refuse any article for any reason. Additionally, ALOA reserves the right to edit an article for clarity, grammatical correctness and technical accuracy. Efforts will be made to notify the author of the changes, so that the author has a chance to approve the changes.

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Changing the combination

for the shackle  
only takes a few seconds  
with a simple turn  
of the change button.

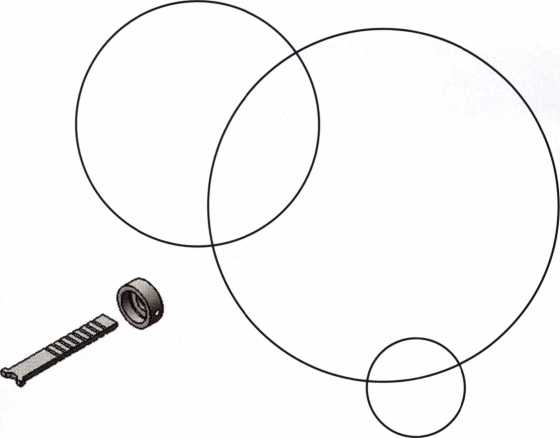
**Products LOCKSMITH Professionals**



Medecc>3

By Greg Perry, CML, CPS

Photo 1 shows the difference between Medeco3  
(top) and standard Biaxial( (bottom). The slider  
can be seen just above the bottom of the key  
through the cutaway cylinder.

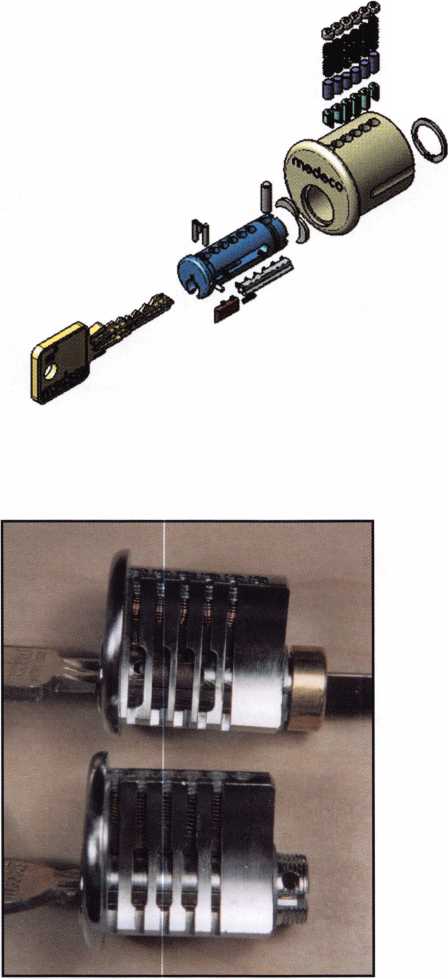


Medeco3 is here and no new pin kits or key  
machines are needed. (Thank you, Medeco!).  
Medeco has developed a new product to  
address the impending patent expiration of  
Bixial( in July, 2005. Since its founding,  
Medeco has been at the forefront of patented  
key and cylinder control. Medeco was the  
first to “mass-produce” a high security  
cylinder with their original product line,  
incorporating a rotating pin and a sidebar.  
Medeco originally started as a machine shop.  
Their name comes from the first two letters  
of word of their original name, Mechanical  
Development Company. The story I’ve heard  
is Yale Lock asked them to develop a high  
security cylinder design. Once developed,

Yale felt the product would be too difficult  
to mass-produce and too costly. After already  
investing a large amount of time and money,  
Medeco in 1968 decided to market the prod-  
uct themselves. During the mid 1980s,  
Medeco needed to update or redesign the  
product to maintain a market position with  
a patented product. The product was named  
Biaxial; not only did the pins rotate, but they  
added a fore and aft cut position. As the  
Biaxial patent nears the end of its life,

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Medeco feels the need to release a new prod-  
uct to maintain their market position with a  
patent-controlled system. Medeco3 is that  
product. The addition of a slider mechanism  
and side milling or bitting on the key is the  
difference. The utility patent was filed on  
Feb 6, 2001, and is good until to Feb 6, 2021  
(20 years). My guess is about 2019, we’ll see  
another new product; perhaps it will be  
called Medecozj.. A few years ago, Medeco  
joined the Assa Abloy Group.

Medeco3 can be purchased for use with  
either the original pins or Biaxial pins.

This means that if you’re more comfortable  
with the original pin style (or Biaxial), you  
can service the newest generation of patent-  
controlled product, Medeco3 with a minimal  
investment. Obviously, new inventory will  
be required in the form of new key blanks  
and cylinders. In addition, new jaws are  
required for your existing key machine.

Add a little inventory in the slider parts  
and you are ready to provide your customers  
with Medeco3.

Medeco3 starts with a basic pin tumbler  
design with six depths and typically six pin  
chambers. The original Medeco style pins  
rotate right 20 degrees, center or left 20  
degrees, meaning there are three different  
pins associated with each depth. The rota-  
tion of the pin is accomplished by a chisel  
tooth design that matches the cut profile on  
the key. Each pin has a slot milled into the  
side. This slot, when rotated correctly, will  
allow the sidebar to enter the side of the pin.  
If all the pins are aligned at the sheer line and  
each pin is rotated correctly, the sidebar will  
enter the pins as the plug is rotated. If any  
pin is not at the sheer line, or if any pin is  
not rotated correctly, the plug will not turn.  
Biaxial uses a very similar concept with the  
addition of a fore or aft cut to the chisel  
tooth on the pin. Biaxial pins and cuts are



Photo 2 takes a look at three keys,  
on the top is a standard Biaxial.  
The middle key is a Medeco3 with  
master mill, and the bottom key is with  
the change mill.

Photo 3 shows two of the three different sliders and  
side bars. The top is the master only slide and the bottom  
is the combination slide.

Photo 4 gives us an idea of how the slider will block the side bar. The slider must move towards the back of the plug to allow the side bar to enter the pins.

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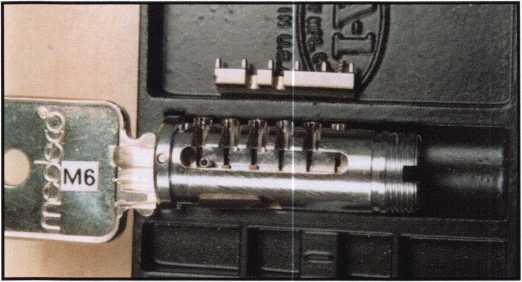
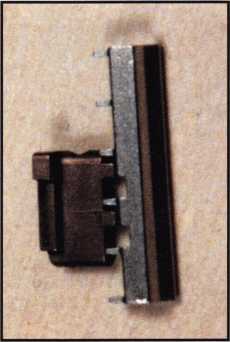
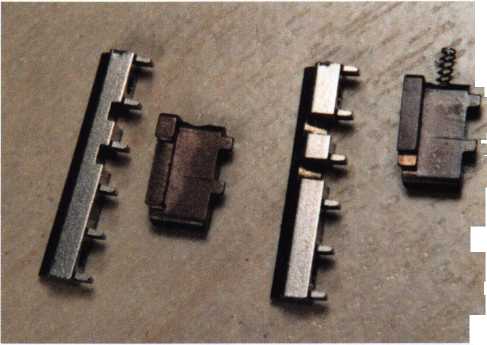


Photo 5 shows the key partially inserted, in this the position the  
slider is in the blocking position.

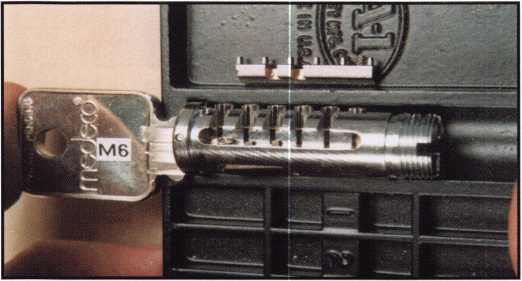


Photo 6 is with the key inserted all the way pushing the slider out of  
the way.



Photo 7 is of the cavity where Photo 9 the plug now has the

the slider goes. change milled key inserted,

it is pushing against a differ-  
ent step on the slider.

labeled K, B, Q, M, D and S. K, B and Q are  
fore cuts left center and right. M, D and S  
are the aft cuts, again left, center and right;  
a total of six different pins for each depth.  
The offset from center is .031; this also  
allows for a double cut in each space of the  
same depth. The double cut can be used to  
increase change keys under a given master  
key. Medeco3 adds a third level of locking  
to the plug. Medeco has added a slider and  
spring to block the sidebar from entering  
the plug if the correct key is not used.

The sidebar legs are modified for use with  
the slider. They are narrower, and the sidebar  
itself has two gates cut into it for the block-  
ing tabs of the slider to enter. The keys are  
available in two versions, a master side bit-  
ting and change side bitting. The reason for  
this is to limit a change side bitting key from  
operating a master-only cylinder, or limit a  
master key from operating a cylinder in  
which only a change key should operate.

This operation is achieved with three  
different sliders. The first is a combination  
change/master slider. Either type of key will  
push in the slider, allowing the sidebar to  
enter the plug as it is rotated. The second is  
a master-only slider; this slider will allow  
the change key to enter, but the slider is not  
being pushed by the key. The slider will then



Photo 8 shows the bottom  
view with the master milled  
key inserted. In this picture  
you can see how the master  
key is pushing against  
the slider.



Photo 10 has the master only  
slider installed, the master  
milled key is pushing  
against it.



Photo 11 is the same  
master only slider with  
the change milled key  
inserted notice it doesn’t  
push the slider forward.

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block entry of the sidebar. The third is a change-only slider. I have not received a change-only slider, but I believe it operates by blocking or restricting the full entry of the master key into the cylinder.

Medeco3 has been Beta tested at several locations, including the factory. A Medeco3 cylinder is being tested at the factory and has surpassed 600,000 cycles without failure. I’m certain Medeco3 will be well received by the industry Being able to use your

existing pin kits and only needing to upgrade the jaw for your key machine is a plus towards changing over to Medeco3. My thanks again to Medeco for creating a locksmith-friendly product. I would also like to thank Gordon Malzcewski and Clyde Roberson of Medeco. They provided the pre-launch product sam­ples at the last minute for this article. Be sure and visit the Medeco booth at the ALOA show in Las Vegas to see the product.

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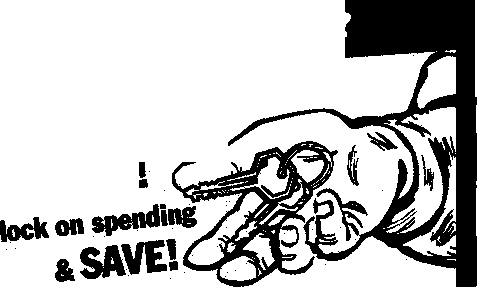
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The Ultimate Weapon in Locksmithing -

A Killer Service Truck by Ed Wood, CRL, CPS



Photo 1



Photo 2



Photo 3



First things first: Let’s thank ALOA and the ALOA Scholarship Foundation for the great door prize at the 2002 convention. Yeah, this is the van they GAVE away last year as a door prize. Also, let me thank KNAACK-WEATHERGAURD for the donation of the interior and cabi­nets. Don Rule, CML, from ALOA and Jack Daniels from KNAACK both worked with me to transform the van and interior into a killer service truck. First, we bumped the E-150 up

to and E-350 Super Cargo van. Next, we added power windows, locks, remotes keyless entry, tilt wheel, a rear heat/air conditioner, and last but not least, a 7.3 power stroke, turbo-charged diesel under the hood. Living in Northwest Indiana, we get a full four seasons ranging from 10 degrees below zero in winter to 100 degrees in the summer sun; that’s the reason for the twin front and rear heat/air condition­er units.

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The first thing was to insulate the van for lasting temperature control. Photo i shows the door the way it arrived from the factory Photo 2 shows the plastic lower panel removed showing no insulation. Photo 3 shows polystyrene insulation I used on flat areas. Photo 4 is the aluminum foil covered bubble wrap insulation I used in more contoured areas — also the Polyurethane adhesive I used to glue pegboard to doors, as well as screws. On the lower portions of the doors,

I shimmed the pegboard out using a one-inch strip of pegboard to facilitate the clearance for the hooks as seen in Photo 5. Photos 6 and 7 are the before and after shots of the driver’s side inner wall. After insulation, it was time to install the cabinetry KNAACK has a dimensional layout of all the common cargo vans in their catalogue to help us figure out how to use your space. I didn’t use a standard package of cabinets, but chose to make up a customer package.

First up was the bulkhead behind the driver’s compartment; it’s the new sliding door style, so the door never blocks other cabinets. It also keeps the rear equipment back there if you make a panic stop , where they can’t slam you in the back of the head. All the cabinets have a secure locking sys­tem to keep the doors and drawers shut while traveling down the road. The main work bench was placed right behind the driver’s seat for the easiest access. A major consideration in laying out your cabinets is weight placement.

You need to try to balance the weight from side to side as much as possible. Another thing to consider is, if you’re using an extended van like I am, not to put the heavy things behind the rear axle. Placing the heavier items behind the rear axle causes the vehicle to be less stable than when you balance it between the axles, eliminating the teeter-totter effect. When installing the cabinets, use caution in drilling holes in the floor, especially as not to drill into fuel tank, wiring, cooling lines, and anything else running under the floor, or in the walls. As I installed each cabinet, besides the bolts and locknuts supplied, I applied some polyurethane adhesive between sur­faces to stop the squeaks down the road (Photo 8 and 8a). This is a trick I learned many years ago while work­ing for an outfitter of service vehicles. A little extra effort now will save a lot of headaches down the road. The work bench is configured in such a way that, from my seat, I can easily reach the most common key blanks, pin kits, code machine, duplicator, fol­lowers, and the most commonly used hand tools. My local fab shop made up the inclined mounts for the key machines, making them easier to access from a seated position. (Photos 9, 10 and 11). Over the work bench is a four-foot florescent light, which had the ballast removed and replaced with a “o” degree start. Most shop lights come with a “50” degree ballast, and that’s why they flicker when you turn them on when it’s colder than that.

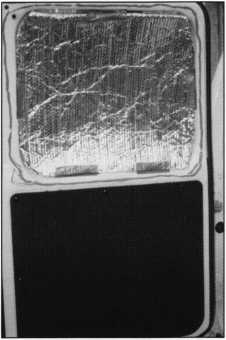


Photo 4

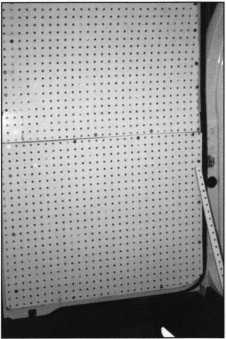


Photo 5



Photo 6

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Photo 7

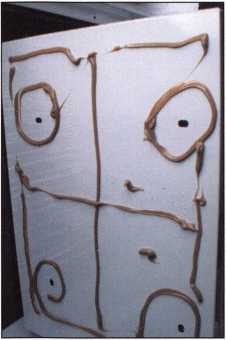


Photo 8

The other modifications to the shop  
light were “TRU-DAYLIGHT” bulbs  
and tube locks to keep them in place  
while bouncing down the Northwest  
Indiana roads; both can be purchased  
at any good electrical supply house  
(Photo 12). Powering the light is a  
TRIPP-LITE 1800-watt inverter. It  
easily runs the light and key machines  
as well as my planer, die grinder, or cir-  
cular saw After much shopping

around, the place  
to get your con-  
verter is a major  
made truck stop  
like the Flying  
“J.” They had the  
best selection  
and the best  
price I could  
find. Ford motor  
company made  
installing an  
inverter a snap.  
Back in 1998,

when I bought my current van, I

ordered an electrical wiring manual,

which showed a circuit already

installed to charge an auxiliary batter

in a camper. This meant no need for a

splitter to isolate the inverter battery

from the truck starting batter. This  
Photo 9 &

truck has the exact same wiring, so

the hook-up was a breeze. The invert-  
er battery is installed in a marine bat-  
tery box for safety, just behind the dri-  
ver’s seat. On the bulkhead, I mount-  
ed the inverter with room enough so I  
could still slide my seat all the way  
back (Photo 13). The manufacturer  
recommended #2 gauge wire from the  
battery to the inverter, which is a  
heavy gauge of batter cable that was  
purchased at an auto parts store. The  
next safety precaution was to run the  
power from the inverter straight to a



Photo 8a



Photo 10

20-amp GFI. The GFI (Ground Fault Interrupter) will trip if a short arises, keeping you from getting an electrical shock.

All the wiring was run inside a non- metallic conduit to prevent chafing or pinching of wires. Aside from the out­lets for the machines at the work­bench, an additional outlet was run to the rear of the van and a 30-foot reel retractor cord was installed with a drop light (Photo 14). In addition to the no-volt AC outlets, two 12-volt DC outlets were installed off of the auxiliary battery. The battery and inverter were mounted on the bulk­head right behind the driver’s seat making the on-off switch easily acces­sible and keeping them out of harm’s way All the KNAACK cabinets have a gloss white finish, which helps with the light reflection, making the one florescent ample light for this van.

All the cabinets came with more than ample fasteners, but I substituted 5/16 tinnerman clips for the top anchor points near the roof. The sheet metal self tapers and nut-serts work loose after a year or two, but the tinnerman style nut with a drop of thread lock will be there five or six years down the road. All that’s needed to install these type of fasteners is to drill a 7/8-inch hole just over from your 5/15-inch anchor point to insert the nut portion in back to squeeze the sheet metal tight (Photos 15 and 16). These are automotive style fasteners, and are used to hold fenders on many vehicles. Raise the hood of most any car and you will find these style fasteners where the stainless steel bolt, fender washers, and locknuts for fastening through the floor of the van.

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The cabinet on the driver’s side over the rear wheel well took extensive cutting and shaping to accommodate the rear heat/air unit (Photo 17).

After laying it out, you also need to carefully plan the use of the space on the middle shelf, so as not to block off the supply of hot or cold air coming from the two vents (Photos 18 and 18a). The American key boxes each hold 500 different keys with 10 to 14 keys per hook. One was set up for automotive, motor­cycle, club and heavy equipment keys. The second was filled with house, padlock and other cylinder keys (Photo 19). Different locksmiths need different blanks depending on your geographical area and your type of work. My old buddy Gary Perry and I were discussing truck inventory one day, and our inventory isn’t even close to being the same.

A bulk of his work is safe deposit work, with very little automotive — just the opposite of mine. Don’t get me wrong: We both have some things that we both stock in our truck, but it would be unrealistic for me to make up a list of stock, keys, or even tools you all should have in your truck. So, as I list some of these things, you need to realize that this is a key board that uses the H. E. Mitchell mobile key hooks for the most popular house and automotive keys that can be reached from the seat at the work bench (Photo 20). Another thing noticeable about the interior is the use of the tool holders from Snap-On YA 3123A and YA3182A (Photo 21). The mag­nets used to hold tools, small parts, and even notes are attached in some cases using polyurethane caulking adhesive. On 40 per­cent of the 40-60 side doors was great space to store “my favorite” car opening tools, wedges, and lights (Photo 22). The bulkhead

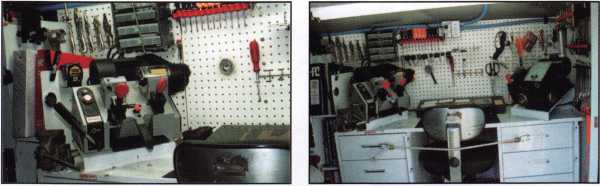


Photo 12

Photo 11

Photo 13



Photo 14

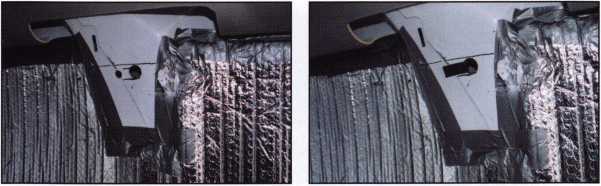


Photo 15

Photo 16



Photo 17

Photo 18

Photo 18a



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Photo 19

Photo 20



Photo 21

Photo 22

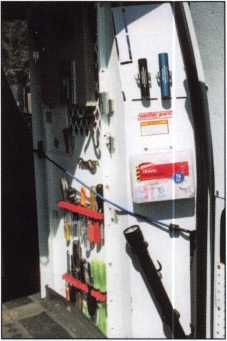


Photo 23

also makes a good place to hang flashlights, tools, first aid kits, and most anything else you use regularly (Photo 23).

The cabinets all the way to the rear were meant to be used for cable TV converter boxes, but they make a perfect spot for all the face cap and automotive pin kits on my truck. I do a considerable amount of auto work, so there are both domestic and foreign kits that need to be protected from spillage, due to the major investment. The saying around here is, “He who spills the pink kit sorts it alone!” These kits are bulky in plastic boxes but don’t weigh all that much, so behind the axle they went. Padlocks, rim, mortise and knob cylinders were moved to more forward positions, as they are heavier items. A non-skid drawer liner was also rolled out on the shelves to quiet the noise and keep the plastic containers from sliding around. In Photo 24, the key board on the left is stocked with the most commonly used keys fro my truck, including house, padlock, and automotive. On the floor is a Jensen tool case, which I use to carry my tools for servic­ing steering columns and ignition locks. It looks impressive when you open up the truck for tools. It also gives a more professional look when you sit it on the passenger seat rather than a tool box (Photo 25).



Photo 24

Photo 25

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One of the final touches was for Sign Oddesy to install my vinyl graphics on the exterior of the van. We use the red key with KEYED RITE INC. over it on our business cards, let­ter heads, phone books ads, vans and even the clock on the wall in the shop. Take a look at my new license plate (from Found a Home) wrapped around the new vanity plate; I know it’s the wrong word — it’s a play on words to make them think. Another detail is I use the ALOA and SAVTA logos on it, just as I have on my previous vans. Once again — THANK YOU ALOA Scholarship Foundation and KNAACK-WEATHERGUARD for the great prize, as this article wouldn’t be possible without them. Congratulations to the future ALOA van winners — I hope you enjoy yours as much as I’m enjoying mine. (Photos 26-32.)



Photo 26

Photo 27



Photo 28

Photo 29



Photo 30

turpi 10

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In-Stock... **SAFES** FREE Freight Program Fax: 800-391-4553

800**-**848-9790

AMSBC FireKing GatiaH HAYMAN MEIUNK ^CTOft



Photo 31



Photo 32

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Tryout Keys and the 2002 Ford Explorer

By Red Howell, CRL



There are several different approaches or options for making a key for this vehicle. The following lists a couple of options when making a key: impressioning, disassembly or using tryout keys. From my 30-plus years of experience in the automotive industry I have found using tryout keys is often the best solution. Impressioning causes stress on the lock and disassembly is time consuming and increases the risk of damage. Several manufacturers make tryout keys, yet I have found tryout keys made by Baxter Systems to be the most accurate and the easiest to use.

During a recent California Locksmiths Association (CLA) meeting in San Diego, I was talking with Terry Morse of SOS Lock and Key about tryout keys for automotive locks. He mentioned he was having a dif­ficult time making keys for cars and wanted to know the best tryout keys to use. I mentioned Baxter Systems for tryout keys and suggested he try them.

I talked to Dennis Baxter of Baxter Systems about the two of us going to a local car dealer to use one of his sets. He said, “How about our new Set 99 on a 2002 Ford Explorer?” Dennis told Terry what were going to



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do, and he asked if he could come also. Dennis called me to see if I would mind, and I told him it was fine with me. Dennis and I both enjoy teaching, and since Terry had little experience with tryout keys, we knew it would benefit him also.

We all met at the Ford dealership at about 5 p.m., and were given permission to use the new 2002 Ford Explorer behind the showroom building. It is so nice to find cooperative car dealers like Drew Ford of La Mesa, CA.

The 2002-2003 Ford Explorer is on the Ford 8-cut system. It differs from most other 8-cut Fords in hav­ing door tumblers in positions 2 through 7, instead of the more common positions, 1 through 6. This door tumbler arrangement is shared with the 2002-2003 Mercury Mountaineer, and all years of the Lincoln LS.

We handed the Set 99 to Terry and said, “Go for it!” First, he determined that the bottom side of the lock had the first tumbler, using the “notch tip” key fur­nished in the set. Then he started trying them in the driver’s door lock (the only door lock on the vehicle). He used the keys, according to the instructions, which state to start with the first key in group 1, and try both sides of each key. When side 50 (of 202) was on the bottom, the key turned. This happens to be the side at which 50 percent of the possible combina­tions have been covered.

This step is to make a key to use to finish the door key by impressioning. To do this, determine the start­ing cuts, from the cutting chart, for the side that operated the lock. For side 50, they called for the fac­tor depth cuts 244212 to be made on an H60 or equiv­alent blank. Of course, this Explorer has a transpon­der key, but here, we are only concerned with using Set 99 to determine the correct cuts. These could then be transferred to the correct transponder key and programmed as a functional key.

Using the code machine in his mobile unit, Terry made the cuts 244212 on both sides of an H60 blank. He then tried to impression it t in the door lock to determine the correct depths in each position. He was not getting any marks, so Dennis demonstrated

the correct way to do this step. The key is turned to the right and rocked up and down twice, then turned to the left and rock up and down twice. This is repeated several more times in each direction, until fairly clear impression marks are visible. We only rock the key up and down twice because the tumblers are pushed away from the key by that time and further rocking at that point is useless.

When this had been done, the key was removed and good marks were seen in positions 2 and 5 (the first and fourth cuts on our key). At this point, I decided to show Terry the proper use of the Pippin file to fin­ish the key. I dropped down to one knee, and holding the key on my other knee, I deepened the positions with marks. All it takes is a few firm strokes in each position for the cuts to be deepened by the file. Once this has been done on both sides of the key, was inserted into the door lock. This time, it started to turn, as I was resuming impressioning. When the key was removed, there was a very obvious mark in posi­tion 7.1 again deepened this position on both sides, and now, the key operated the door lock smoothly.

My key was cut 344313 in positions 2 through 7.

The ignition lock has tumblers in positions 2 through 8, as do all 8-cut Fords. This means that once you have the correct combination for the door lock, you only need to progress position 8 to finish your key for the whole vehicle. I handed the key to Terry and said to try it in the ignition lock. This was because we wanted to see if the eighth cut was a #1 depth, and it was, since the key also operated the ignition smoothly.

In his tryout set instructions, Dennis says to use a code machine, guide keys or a clipper to make the cuts on your key blank after the operating key has been found. Those of us out in the field actually doing the work don’t always have the luxury of having these tools readily at hand as we impression, so Dennis agreed that being skilled with the Pippin file is also a very valuable skill. A round file can also be used, but the Pippin works better because of the smoother transitions from cut to cut.

Until next time, keep on cutting!

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Diebold’s Fearsome Maximus

By Greg Perry, CML, CPS



It’s a name that strikes fear into many safecrackers’ heart. I spoke with a Diebold technician from central California who said he only knew of one man in the whole country who could open a Maximus, SAVTA president Skip Eckert, CML. I can think of many others, but the Diebold technician gives you an idea of how difficult some feel this safe might be to open if something goes wrong. The Maximus carries an Underwriters Laboratories TRTL30X6 rating. This means the safe is torch (TR) and tool (TL) resistant for 30 minutes. The “x6” indicates six-sided protec­tion. Safes without the “x6” have only the door tested. I have not had the pleasure of opening a Maximus, but I have worked on several. If the call comes to open one, I’m about three-quarters ready More later about what I’m missing.

The Maximus is made in Israel by ISM. The construc­tion is similar to other ISM safes. Three-way bolt- work locks the top bottom and open edge. The hinge side is secured with fixed pins or bolts. The body is 4 1/8” thick comprised of steel, aluminum and concrete. The overall size of these units is 66” tall, 30 3/4” wide and 31 3/4” deep. The doors are 61” tall by 26” wide overall the doors are 7 7/8” thick with a distance of 3 3/4” to the lock bodies. The locks are mounted on a steel plate bridged over the top of a large tempered glass plate with two relock wires attached. Both ends of the wires are attached to the plates. They are attached to different pivot point cams within the safe from one safe to the next. The two safes I have pic­tured show the same location for the bottom relock, but the top relocks are located at different locations.



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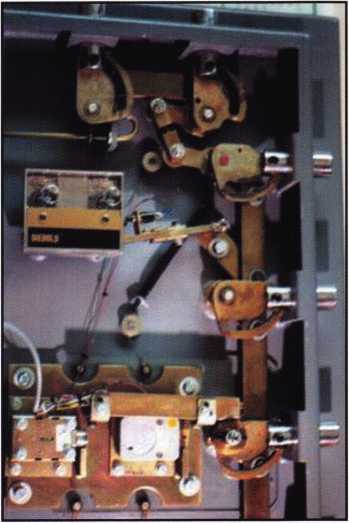
1. This is the outside view of the handle, dial and key lock area.

The operation of the relocks is an internal pin, ball bearing, and spring pushing against a relock pin that when fired prevents the cam from turning. The cable wraps around the base of the cam mounting plate to retain the pin. If you should ever need to overcome a relock, drill for the center of the cam and remove the spring. The relock pin then needs to be pulled out of the blocking position. Deciding which cam location is perhaps the most difficult decision. This is where good record keeping and documenting any safe you work on is important. Each of these safes is documented in my library should I ever need to open one because of a fired relock. It’s doubtful at this time that a relock will fire on these safes, anyone care to guess why? Look careful­ly at the photographs; I’ll answer in the closing paragraphs.

Diebold/ISM installs two locks on the Maximus; the combination lock is the Sargent & Greenleaf Group 8500 series lock. This is a three- wheel lock Group 1 manipulation-proof lock. The major difference from a 6700 series group 2 lock is the removal of the lever spring and the addition of an accelerator spring and a small “S” spring to keep the fence off the wheel pack if the combination is incorrect. Operation of the lock is to dial the combination 4.x left, 3X right, 2 left, and finally ix to “o” then push the dial in, release and continue to turn to the right, retracting the lock bolt. Pushing in on the dial releases the accelerator spring, causing the lever/fence assembly to jump toward the center of the wheel pack. If the gates are lined up, the lever drops and you can retract the bolt. If the wheel gates are not aligned, the small “S” spring will lift the fence off the wheel pack, effectively pre­venting manipulation.

The second lock is a key lock made by Mauer. Two different locks are used on the Maximus; the first is the 9 lever Praesident. The other

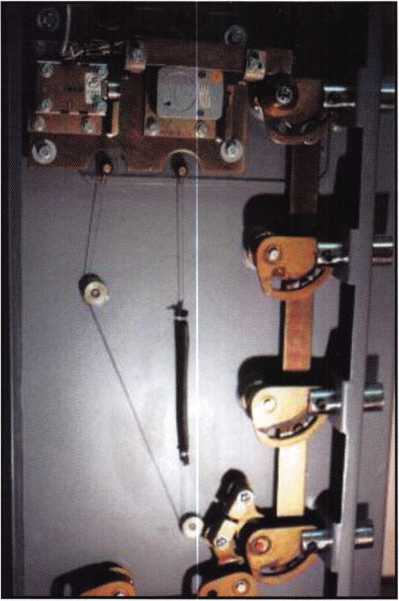
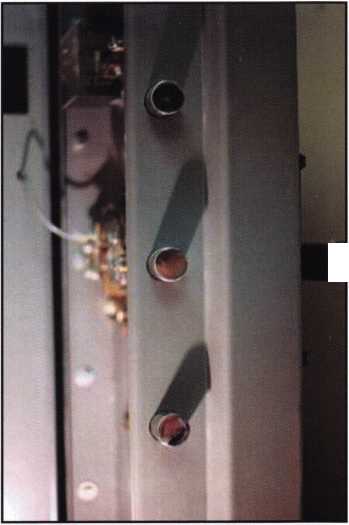
2. This gives an idea of how thick this door  
is; the bolts are 1 1/2” diameter.



3. This is the top view of a safe number 1. It  
show the correct location of the time lock  
snubber bar and it has a switch on the top of  
the snubber bar that could be tied o an  
alarm panel to indicate that the boltwork is  
in the open position. It could be used for a  
door left open too long alarm.

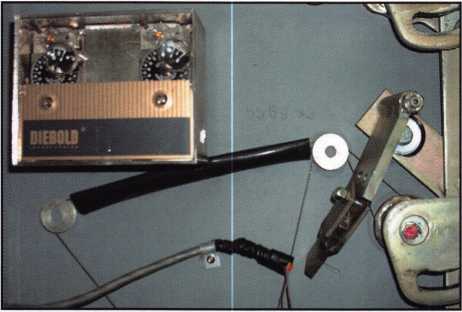
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4. This shows the inside bottom view of safe  
number 1.

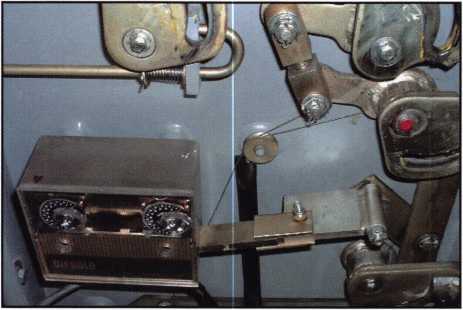
5. This is the inside of safe number 2, as you can  
see the time lock snubber bar has fallen out of the  
time lock.



6. This is a close up of the time lock and upper relock area.  
Compare it to photos number 3 and 8 and you’ll see the  
different location of the relock wires.



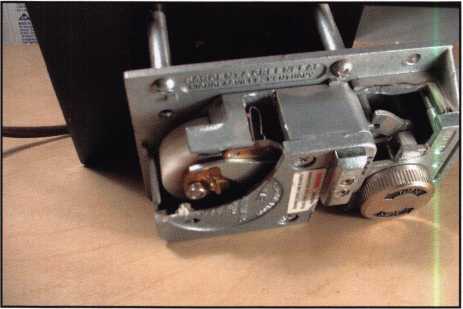
7. Here is a photo of the bottom relock area of  
safe number 2.



8. This is a good view of the time lock and relock area, on  
still a third Maximus. The top relock location is the same as  
safe number (Missing from this safe is the switch on the time  
lock snubber bar.)

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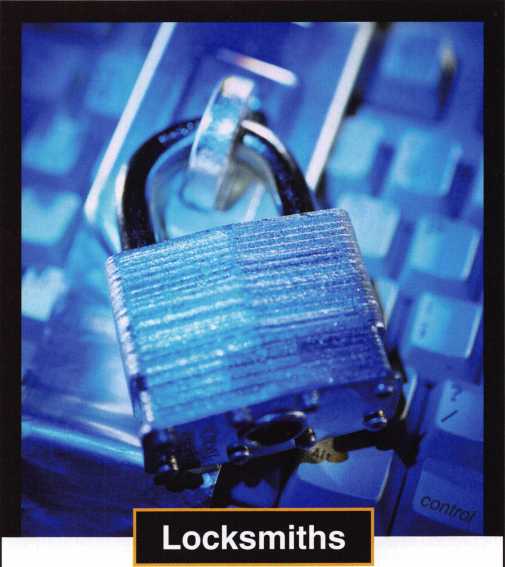
9. This is a view of an S&G 8560 cutaway lock showing both  
the accelerator spring and the “S” spring used to keep the  
fence off the wheel pack. The bearing on the drive cam is  
used to load the accelerator spring on to the ledge you can  
see just above the spring.

lock used is the 12 lever Rhenus. The reason I’m only three-quarters ready to open one of these units is because I’ve not been able to actually work on the key locks of these safes. My customer only has me change the combination of the 8500 series locks. I’ve offered a number of times to perform a complete service on the doors but they have a serv­ice contract with Diebold. Thus, I’m relegated to only working on the combination lock. I still take pictures and dimensions just in case of a lockout.

You’ll also notice the time lock snubber bar in safe number 2 has fallen out of the time lock case. This has been a chronic problem for this safe.

I found it like this the last time I changed the combo. I noted it on the invoice and informed the security officer. Again not my problem to repair, Diebold needed to come fix it again under their service agreement. Sometimes it gets frustrating to not be able to fix problems encountered when changing the combination but the customer is unwilling to pay me for a complete service or to fix problems like the snubber bar.

Anyone notice why the relocks will not be a prob­lem? The shipping bolts are still in place, this was pointed out to me several years ago on the SAVTA web site ([www.savta.org](http://www.savta.org)) when I first started chang­ing combinations and was concerned about the deteriorated rubber grommets. They are cracked and brittle, my concern was the possibility of the grommets allowing the wires to relax releasing the relocks. I posted pictures and asked about the pos­sibility of them firing. Instead Skip Eckert pointed out the red-headed shipping bolts. These bolts pre­vent the relocks from firing during shipping, should the glass break. They should be removed after the safes have been delivered. Again I’ve notified the security officer and noted it on the invoice as I’ve changed combos but my customer prefers to have Diebold perform any other service work on the safes. If the day ever comes that a relock fires or the combination lock fails, I’ll be ready. But if the key lock fails, I may just have to call Skip.



The Central Intelligence Agency is seeking Locksmiths to work with the best minds in the country while performing a mission critical to our nation.

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**2**

Issues of Liability for Locksmiths and Security Experts: Part I

By Marc Tobias

The following two-part series summarizes potential liability issues that can confront the locksmith. Part I concentrates on general liability associated with more traditional tasks. Part II details specific issues that can be encountered in performing services relating to master keying. In a related article in the September issue, Marc will examine liability and operational issues involving the EZ ENTRY key machine manufactured in Germany and sold by Lockmasters. An in-depth analysis of this milling machine will be presented from both the legal and oper­ational perspective, with extensive consideration of its use in the compromise of master key systems.

Increased security concerns after 9/11 and the post-Iraq-war terrorism threat have lead to a heightened awareness of poten­tial liability upon the part of locksmiths and security experts for negligent acts in the recommendation and installation of securi­ty hardware within the commercial and government sectors. Increasingly, locksmiths are taking on the role of, or represent­ing themselves as security experts with respect to consulting with, recommending, designing, installing and maintaining security systems and related hardware.

The complexity of the industry and the wide array of available components have required that the locksmith obtain special training and education for specific disciplines. The integration of electronics, microprocessors, emerging and mature access control and alarm technologies, and advances in mechanical locking systems have made the job of the security professional all the more demanding. A successful locksmith in this environ­ment cannot continue to do business as a general practitioner and yet hold himself out as a security expert without special­ization and the requisite training and equipment.

Media attention with regard to the vulnerability of commercial and public buildings, including the compromise of master key systems, has caught the attention of both security profession­als and the legal community. Locksmiths, security consultants, and security management must understand their possible exposure to litigation and subsequent damages for their failure to act properly, or negligent actions that result in harm to peo­ple or property. Every locksmith and security consultant has a fiduciary duty to clients with regard to certain issues outlined in this article. A breach of that duty can lead to serious conse­quences and can result in jury awards for actual and in some cases punitive damages as well as potential criminal liability for certain acts. Damage to reputation and the ability to continue in business is also of paramount concern. Although many losses may be covered by liability insurance for errors and omissions, certain acts may be excluded from policies.

Some locksmiths impliedly or directly represent that they have the expertise to provide consulting services to their clients with regard to issues of security, master keying, alarm systems, or forensic investigations when in fact they do not possess such expertise. Unless they have the appropriate education (and continuing education), training, experience, and professional

certifications from ALOA, ASIS, AFTE or other organizations, then the making of such representations can result in the potential for significant liability and resultant damages.

Whenever you meet with a client or prospective client, you must be certain not to overstate your knowledge or capabilities, either directly, or by implication. Recommendation of certain locks, safes, and security hardware implies that you have the requisite knowledge about the products and the environment and threat levels into which they will be installed or located. This is especially true in the arena of high security locks. You must be able to knowingly discuss potential security issues or vulnerabilities with regard to such hardware and systems. You have a duty to point out any known vulnerabilities that could make such installation unsuitable for the client. Remember, your opinion is being relied upon as that of an expert. Most often, the customer is not expected to have the necessary expertise to make independent evaluations or judgments as to suitability of the product for its intended purpose: you are.

If you tell a customer that a lock will provide sufficient security for his application and it does not, then you may be held liable if there was a known defect in its design, or it was installed improperly.

You have a duty to investigate the suitability of any product that you recommend, and that will be relied upon to provide a specified level of security. This means that you must be knowl­edgeable with regard to known issues that can affect security. You must be able to demonstrate that you are familiar with cur­rent literature that would disclose potential or known defects in such products. If you tell a client that a specific lock, security component, or system will provide the requisite level of securi­ty, then you can be bound by that representation if the product fails to perform. The client will often rely upon your experience and expertise to advise in such matters. If you make state­ments that you know are not true, or do not know if they are true, then you can be liable for a product failure. You can rely upon representations from a manufacturer as to product per­formance, but it can be at your peril. Remember, a manufactur­er may not be aware of a specific method of bypass, defect, or security issue that can cause a loss to a client. It behooves you to investigate the products that you sell, to insure that they will meet stated specifications, and will perform as expected by the client.

The critical issue is an understanding by the client of the risks associated with a specific component within a security system. They cannot be expected to make an intelligent assessment with regard to the risks if they do not fully understand them. Much of the controversy stemming from the New York Times article (January 23, 2003) on master keying dealt with the issue of whether locksmiths were aware of the ability to decode master key system through the use of a change key. There is no question that locksmiths that routinely deal with master key systems were clearly aware of the potential to com­

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promise the security of virtually any conventional master key system. The legal issue, however, is whether clients of the locksmith were aware of such risks. In many cases, they were not. The potential exposure for locksmiths is the failure to ade­quately disclose and discuss the security risks of any master key system with their customers so that the customer can make the decision as to whether to implement a master key system, and how extensive that system should be. It is safe to say that most locksmiths have never disclosed the issue of decoding and extrapolating the top level master key, as dis­closed in the Times article. \*

The following summary provides an overview of liability issues but may not be considered as exhaustive, given the inventive­ness of plaintiff's attorneys and the penchant of some juries for outlandish verdicts. These actions (or failure to act) could sub­ject you and/or your business to significant liability both under contract and tort theories of law. A more detailed explanation of certain issues may be provided in LSS+.

General Liability Issues:

* Representations to a customer that you have expertise in certain specialties that you do not have;
* Acting as an expert in forensics or security when you do not have the requisite expertise;
* Failure to maintain liability insurance;
* Failure to comply with licensing laws for a specific jurisdiction;

Employee Guidelines and Procedures:

* Failure to establish operating procedures and guidelines for the protection of information and property of clients;
* Failure to properly vet employees with regard to background and experience, which leads to theft of property or compro­mise of customer data;
* Cutting of keys stamped DO NOT DUPLICATE or other indi­cation that they should not be copied without specific permis­sion of person in authority;
* Cutting of keys on restricted blanks without the proper authority;
* Cutting keys by code without full information about the cus­tomer or locks and customer's authority to have a code-cut key produced;

Failure to Maintain Adequate Security for Business Location of Locksmith:

* No alarm system to protect the premises;
* An insufficient level of data security. You must provide pro­tection against fire, theft, employee compromise, or intercep­tion of information by third parties;
* Failure to protect mobile information in vans and other serv­ice vehicles and on laptop computers and PDAs, or compro­mise of information transmitted via cell phone, pager, or wireless network, including 802.11 LANs;
* Allow network or Internet access to computer-stored cus­tomer records or databases containing such records;
* Failure to protect restricted key blanks;

Records:

* Failure to maintain confidential records in a secure manner;
* Failure to protect the following critical records:
* TMK Register
* End-user register;
* Progression and bitting list;
* Authorization and inventory cards;
* Parity records and registers;
* Diagrams, photographs, drawings, and information relating to safes and vaults on customer premises;
* Documentation with regard to expansion specifications for master key systems;
* Any customer information that could result in a breach of premises security and resultant loss of information or proper­ty, or which would subject employees, patrons, or others td harm;
* Violation of duty to maintain certain records as confidential;
* Use of analog cellular telephone or two way radio channels to discuss proprietary or confidential information regarding a client, and such information is intercepted;
* Transmission by e-mail or facsimile of confidential informa­tion in a non-encrypted format, or to the incorrect recipient;
* Failure to maintain sufficient computer security where client records are stored;
* Loss or theft of a laptop containing confidential information and the failure to protect that laptop computer from compro­mise by a third party;
* Compromise of confidential information on a voice mail sys­tem regarding a client;
* Failure to maintain an adequate and timely backup of client data;
* Failure to properly and securely erase discarded hard drives that contain client information. This can be a problem when computers are disposed of, or traded;
* Failure to provide for adequate physical security of records to protect against theft or destruction;
* Failure to establish and follow a records retention and destruction policy that meets the needs of customers and complies with any statutory requirements;
* Failure to protect customer information within files against disclosure or compromise. This may be especially important for clients that secure medical records. A federal statute that became effective on April 14, 2003, known as the Health Insurance Portability and Accountability Act (HIPAA) has stringent security requirements that could logically be extended to a locksmith in the event that the requisite securi­ty is not implemented. There have already been bulletins issued to health care providers regarding their physical secu­rity systems;
* Failure to advise clients of a breach in security that could affect the security of its employees, facility, or property.

Compromise of Customer Confidential Information:

* Failure to protect, or disclosure to unauthorized individuals of code lists, TMK registers, bitting lists, etc;
* Cut and distribute restricted keys to unauthorized individuals, or failure to follow established rules and guidelines with regard to the distribution of such keys;
* Failure to take proper measures to protect computer infor­mation from hacking;
* A detailed treatment of the theory of decoding of master key systems is presented in Chapter 11 of LSS+. A similar discus­sion of the tactical issues is examined in Chapter 31.

Note: The above materials have been excerpted from LSS+, the multimedia edition of Locks, Safes, and Security. The full text may be found in Chapter 37 of the CD ROM. LSS+ is available from ALOA and other vendors. The multimedia edi­tion contains ten volumes and approximately 40 hours of audio and video (Government edition), as well as extensive text and graphics within a searchable database. A preview of LSS+ is available on-line at [www.security.org](http://www.security.org).

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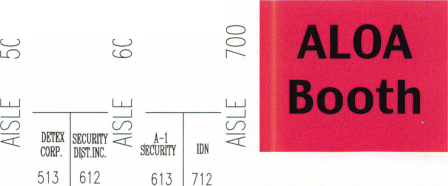
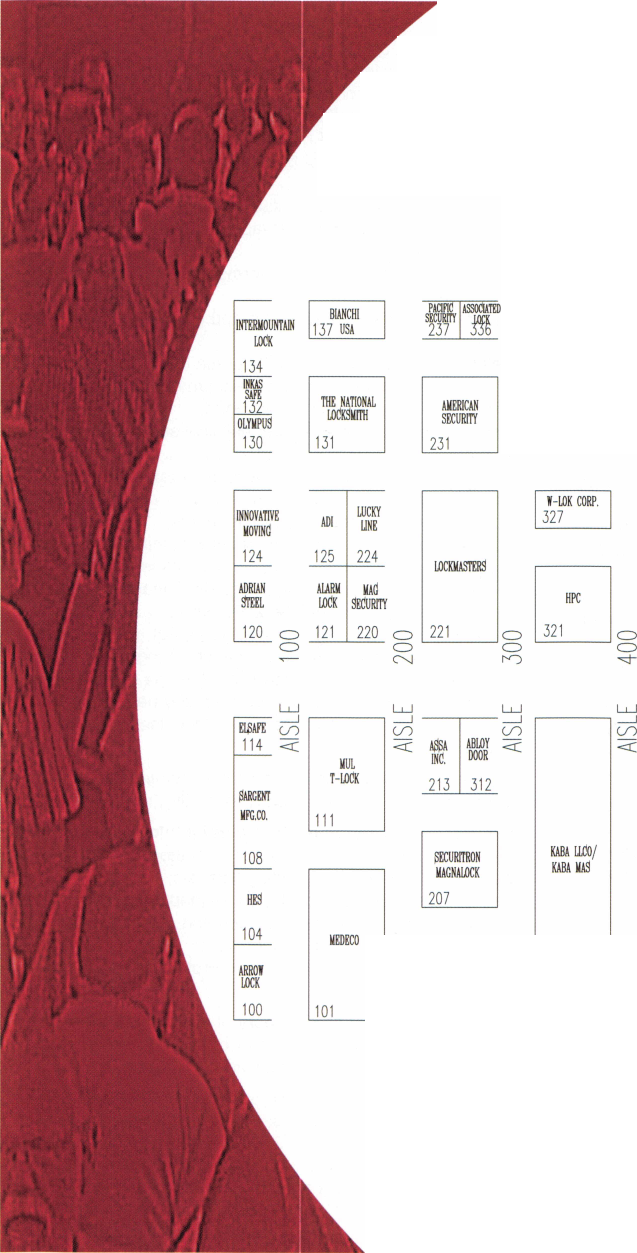
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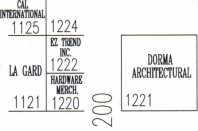
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Diebold

MONEY COMPARTMENT DOOR

By Merritt Perkins, RL

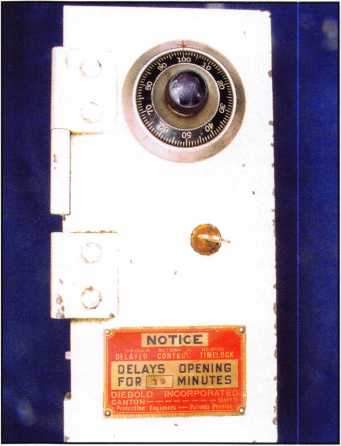


Photo I This is the door to the money compartment inside a Diebold burglary resistant safe. The door is 6 inches wide by 12 1/2 inches high with the dial of the combination lock near the top. In the center is a key operat­ed lever tumbler lock. Near the bottom is a sign stating that there is a 15-minute time delay after the combination has been dialed before the door can be opened. If the dial is not turned to withdraw the bolt within three minutes after the 15 minutes expires, it will lock again. The left-hand reverse bevel door is made of one- inch thick steel. The diagonal dimension of the door width is slightly greater than the width of the opening, so even though the hinge knuckles are cut off, it will not swing out of the opening.

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Photo 2 This is the back of the door with Delayed Action time (DAT) attached to the back of the combination lock. A window in the DAT case allows observa­tion of two disks, half red and half white, which rotate when the dual timers are running. If one timer stops, the other timer will unlock the lock. A sheet metal cover over the key-operated lock and relocking device keeps the contents of the compartment out of contact with them.

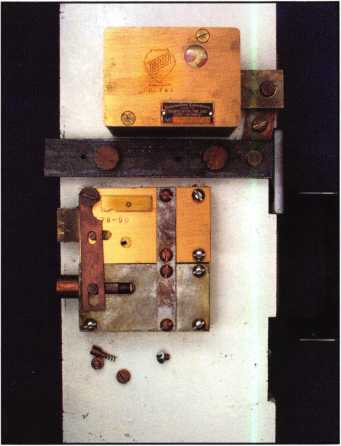


Photo 3 This is a view of the key-operated lock and relocking device with the cover removed.

If the nose of this lock is driven into the door, the link will be driven off the pin in the side of the relocker bolt and allow a spring to extend the bolt.

A groove in the bolt will then be opposite a hole in the bottom of the case where a spring will push a pin into the groove to pre­vent the bolt being pushed back into the case. The picture shows the pin, spring, accompanying screws and threaded retaining cap removed from the relocker.

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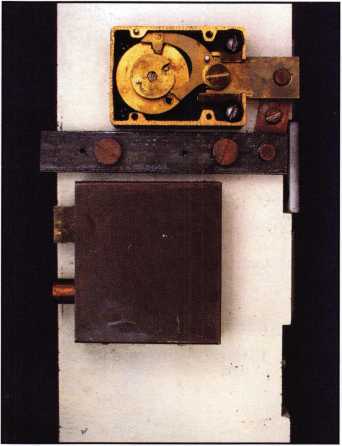
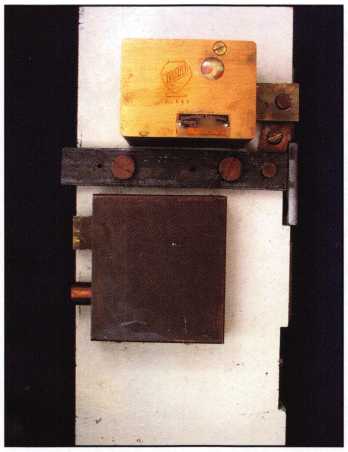


Photo 4 The inside of the door with the DAT removed from the combination lock. Linkage con­nects the lock bolt to the door bolt. This locks the door on the opposite side from the combina­tion lock bolt. The nose of the combination lock lever rests on the circumference of the drive cam. A lever spring holds the lever in contact with the cam.

The end of the lever rests against the lever stop on the inside of the case, which prevents it from with­drawing the bolt. The spline key is cut off flush with the end of the spindle, leaving no way to remove it. If the spline key extended beyond the end of the spindle, it would interfere with the time lock. A pin extends from the cam to engage the flat side of a disk on the timer to wind the time lock. A pin from the combi­nation lock lever goes in a slot in a disk on the timer, which keeps the bolt from being withdrawn until the disk can rotate.

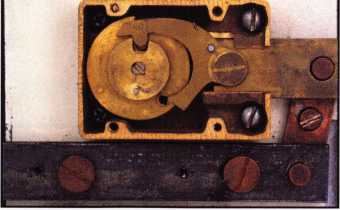


Photo 5 A close-up view show­ing the nose of the lever dropped into the gate in the drive cam while the fence attached to the back of the lever has dropped into the gates of all three wheels. The change key hole in the wheel, square with one flat corner, is on the lower right. The part of the lever next to the change key hole rests against the shoulder of the change key to hold the lever up out of the notch in the cam to allow the dial to be turned to set the combination while the wheels are unlocked. The change key holds the outer part of the wheel tumblers in position while the inner part of the wheel with the drive pins and flies (if any) are free to turn. After the new com­bination is dialed, the change key is turned to lock the outer and inner parts together and removed and the combination is changed. Of course, the new combination should be tried several times to be sure that it is working right before the door is closed.

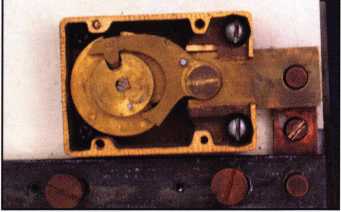


Photo 6 The bolt withdrawn with the lever below the boss.

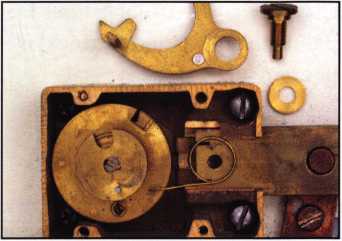


Photo 7 The lever, lever screw and washer, all removed, and with the lever spring in place.

The washer goes inside the spring and below the lever. The tip of the pivot screw fits into a recess in the lock case and limits the distance that the lock bolt can move. Putting the lever and spring together can be a frustrat­ing experience. It is difficult to put the parts together and get the spring in place. The end of the spring that is bent down goes into a slot in the bolt.

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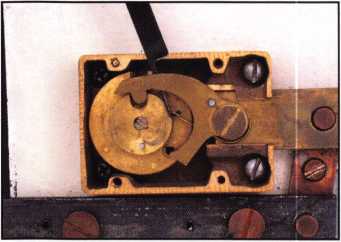


Photo 8 The lever screw is loose and the pivot end of the lever is held down to keep the spring around the washer, and from getting between the lever and the washer. A tool (a lifter for pin tumblers .015 inches thick) is inserted under the lever and hooked onto the spring. A lock pick would probably work.

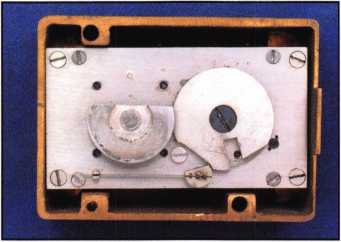


Photo IO The timer mecha­nism in its brass case. The disk wheel with the flat side is turned by a pin on the combination lock cam to wind the timer. The pin on the combination lock lever fits in the slot in the disk, which is kept from turning by the detent with a flat side and a flat steel spring staked into a slot in it.

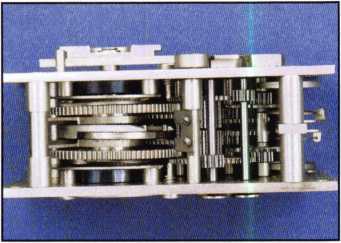


Photo 12 A side view of the dual timer with the detent shaft in the center. Flaps on the detent shaft are actuated by the clock cams that rotate with the large gears. The clock is not wound.

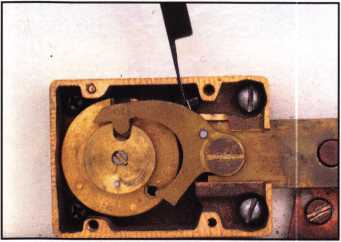
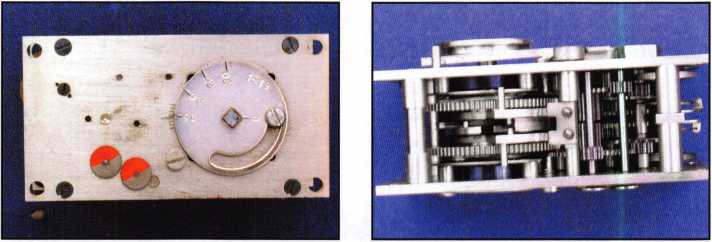


Photo 9 The spring is pulled out from under the lever and is ready to hook over the lever.

The nose of the lever needs to be in the gate in the drive cam so that the lever has dropped down to leave enough room between the top of the lever and the lock case for the hook on the spring to pass and hook over the top of the lever. Now the lever screw can be tightened.

Photo II The mechanism removed from the case showing the two disks that rotate while the timer is running and the adjustment disk to set the time delay. The graduation marks range from 15 to 30 minutes, but the extreme adjustment range is 14 to 36 minutes.

Photo 13 The high part of the cams that will unlock the detent contact the flaps on the detent shaft and turn the shaft opposite the unlocking direction to get past them, leaving the bolt locked.



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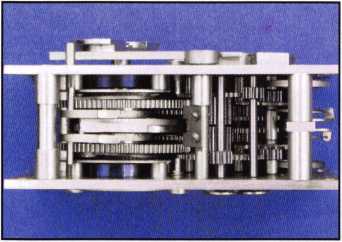


Photo 14 The DAT is being wound; the high parts of the unlocking cams are slightly to the left of the center of the gears.

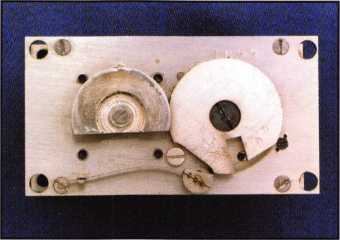


Photo 17 The detent has turned so that the slotted disk can pass the detent to allow it to turn so that the bolt can be withdrawn. (Compare to photo 10.)

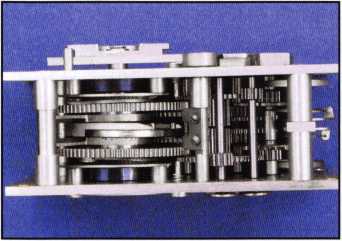


Photo 15 The DAT is wound. The safe dial no longer turns hard. The combination can be dialed.

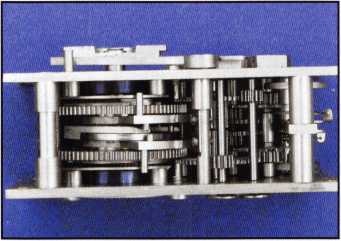


Photo 16 The time has expired and the high part of the cams have turned the flaps on the detent shaft in the unlocking direction. If one part of the timer stops, the cam of the other part will contact one of the flaps and turn the detent shaft to unlock it.

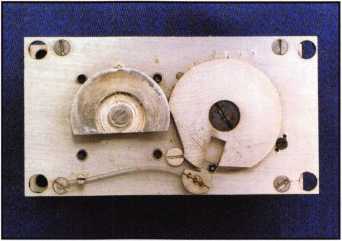


Photo 18 The slotted disk is turned part way so that the com­bination lock bolt is partly retracted. The lock is unlocked.

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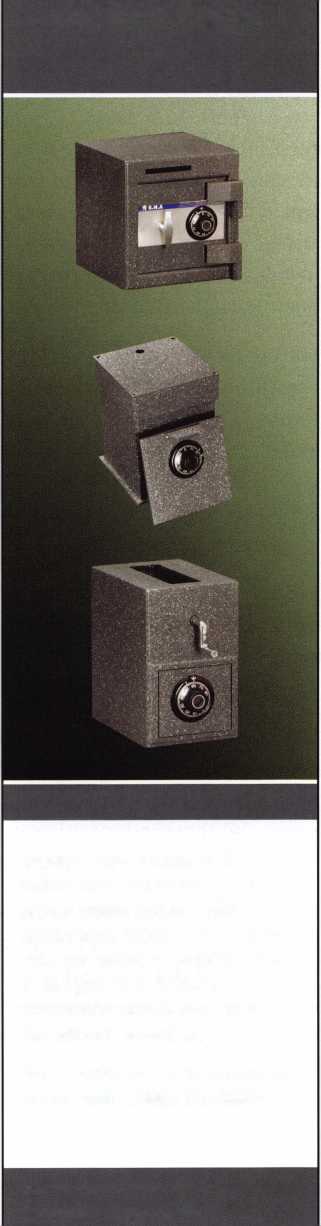
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Profile of:

Pearl Technical Sales Inc.

This full-line fastener and hardware supply company was established by Larry Pearl in 1991. Having been in the fastener industry since 1977, Larry was looking to establish a different kind of fastener company, one that would forge long-term alliances with the customer base, and work with their production and planning depart­ments almost in a consultant capacity, as well as the purchasing departments.

Having grown over the years to service companies in the OEM, medical, automotive, electronics, construc­tion, and military fields, Larry has seen his vision of long-term commitments blossom. In fact, the only cus­tomers that have left the Pearl Technical Sales Company have been purchased by other companies, or moved overseas.

Pearl Technical Sales has seen a need in the construc­tion and service industries for a source for stock or cus­tom Sex Bolts, delivered quickly, and without a large minimum order.

Sex Bolts, a semi standard item used to fasten many components, including door hardware, railings, cabi­nets, signs, outdoor equipment, marine and boat equip­ment, and thousands of other items, have been tradi­tionally very hard to find from stock.

Pearl Technical Sales has partnered with Accurate Manufactured Products Group, one of the largest man­ufacturers of standard and special Sex Bolts and fasten­ing solutions. Accurate has been manufacturing Sex Bolts, Binding Posts, Grommet Nuts, Connecting Bolts, Barrel Bolts, and other fastening solutions, since 1994. They produce the largest line of standard sex bolt solu­tions in the world.

Pearl Technical Sales now has a full line of Sex Bolts in stock ready for same-day shipment, with a low $15 mini­mum order. In-stock items include steel, stainless, brass, and aluminum sex bolts and binding posts, in many dif­ferent head styles and configurations. Security and dec­orative heads are available, as well as many lengths and diameters. Architectural finishes are also in stock.

On of the special advantages that Pearl Technical Sales can offer is the ability to use Accurate Manufactured Products Specials program. This revolutionary program offers small quantity custom runs, with a turnaround of 10 days or less. For as few as 50 pieces, Pearl Technical Sales can offer a complete custom capability. Custom heads, sizes, and materials are offered. Accurate has spe­cialized CNC Machinery specially designed to handle these requests in a speedy and cost effective manner. This program has been a huge help to many companies involved in construction projects with a tight schedule, and also a perfect solution those jobs that have been shorted the correct hardware count!

To summarize, Pearl Technical Sales is looking to become well known as the place to go for Sex Bolt solu­tions, especially in the security and locksmith fields. From offering a custom design and build service unique in the world, to putting together assortment kits for Locksmiths, Pearl Technical Sales stands ready to serve. Just call them to unlock the door on superior product and services!

Pearl Technical Sales can be reached at 631-698-7173 for phone, and their fax number is 631-736-5467.

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Manufactured Products Group

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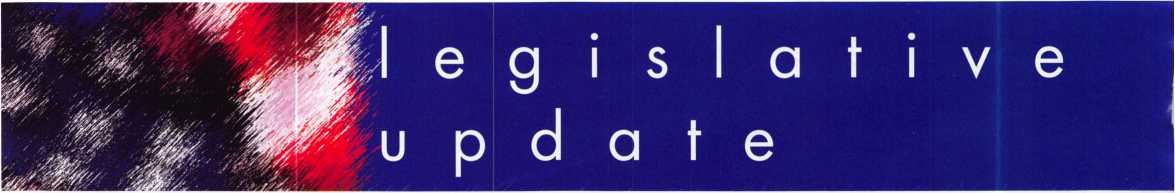
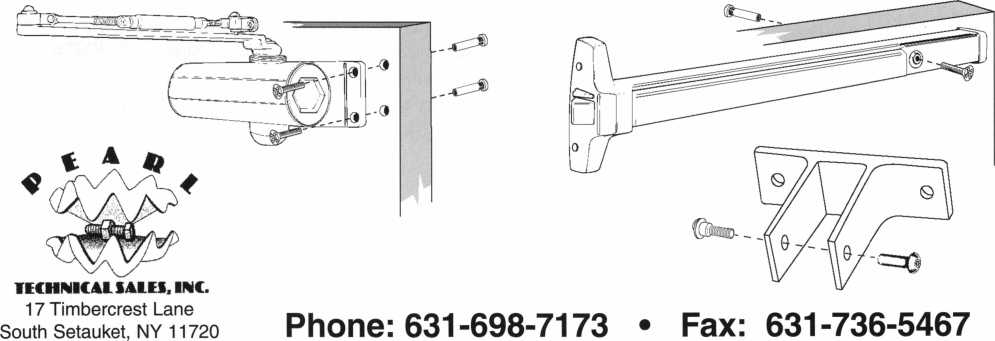
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Find out what's the latest happening in your state capitol. Contact your state representative or senator about a certain bill. Let your Governor know exactly what you think about him/her. Help ALOA at the federal level. Come to the "Thank You!" reception if you're a Legislative Action Network Council member. This is just some of what you can expect this year from the Government Affairs depart­ment at the ALOA 2003 Convention and Security Expo in Las Vegas. Here are some of the highlights:

GOVERNMENT AFFAIRS BOOTH AT SECURITY EXPO

Friday July 18, 2003 thru Sunday July 20, 2003 Noon to 5pm (10am to 2pm Sunday)

On site we'll have information on all bills, and legislation in your state. THIS IS GRASSROOTS LOBBYING AT ITS FINEST! Free Convention merchandise for Legislative Action Network members.

STATE OF THE STATES ROUNDTABLE

Friday July 18, 2003 • 6:30pm to 8:00pm

This meeting is designed as a forum for ALOA chapters and local/state regional locksmith associations to share informa­tion about the state of locksmithing in their region and a dynamic way to share ideas. Primarily for the Chairman, President and Legislative representative from each organiza­tion, all locksmiths are encouraged to participate. This is the perfect opportunity to learn about what's going on in the industry across the nation.

LEGISLATIVE ACTION NETWORK "THANK YOU!" RECEPTION

Saturday, July 19, 2003 • 5:30pm to 6:30pm

As a way to say "THANK YOU" for all your hard work, ALOA is throwing a party for all members of the Legislative Action Network Council members (donations of $100 or more to the Legislative Fund). This invite-only event will be the perfect way to celebrate the MANY legislative victories ALOA had this year!

LEGISLATIVE SUMMARY

The Associated Locksmiths of America, Inc. (ALOA) worked very hard this year on legislation affecting the security industry at the state and federal levels. We actively worked on 16 bills in 14 states plus one federal bill.

There was only one alarm licensing bill introduced this year (Mississippi), which never made it out of committee. In Illinois the Private Detective, Private Alarm, Private Security and Locksmith Act is going through changes to update the law. Again, in Minnesota they introduced a bill that requires criminal background checks for "electronic security system companies" which is further defined as "burglary detection, access control, or closed circuit television." Missouri introduced an Electrician's Licensing bill that includes low-voltage. Louisiana and Tennessee have both introduced locksmith licensing laws.

We have also been working with the Coalition for Auto Repair Equality (CARE) and Rep. Joe Barton (R-TX) to pres­sure the auto manufacturers into providing information to originate keys, or else have the "Motor Vehicle Owners' Right to Repair Act" introduced. Rep. Barton has specifical­ly asked that information for locksmiths be includes on what the manufacturers provide to the aftermarket. We have also been in contact with Rep. Brad Sherman's (D-CA) office about introducing a bill that specifically requires manufac­turers to supply information to originate keys using scan tools to the consumer or his/her agent.

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CONNECTICUT SB 14

Requires the licensing of locksmiths. Failed Joint Favorable deadline.

ILLINOIS SB487

Revises the Private Detective, Private Alarm, Private Security and Locksmith Act. To Committee on Executive.

INDIANA HB1946

Establishes a voluntary registration program for locksmiths who pass a background check. To Committee on Commerce.

LOUISIANA HB310

Provides for the licensure of locksmiths and requires a license to install and maintain access control devices and closed circuit television alarm systems. Introduced.

MINNESOTA HB773/SB797

Requires that employees of electronic security system com­panies, undergo criminal history background checks. To Committee on Ways and Means.

MISSISSIPPI SB2609

Licensing of alarm industry. Alarm definition tied it to a monitored system. Died in Committee.

MISSOURI SB680

Establishes a licensing board to regulate electrical contrac­tors, which includes low-voltage. In Committee on Financial and Governmental Organizations, Veterans Affairs and Elections.

NEVADA SB39

Requires landlord to change entry locks of dwelling unit before delivering possession of dwelling unit to new tenant. To Senate Committee on Judiciary.

NEW YORK AB2646

Establishes security requirements to be fulfilled by owners of multiple dwelling units including deadbolt locks. To Committee on Housing.

NEW YORK AB5024

Provides that class A multiple dwellings having 8 or more apartments erected or converted prior to 1968, must have automatic self-closing and self-locking doors at every entrance. To Committee on Housing.

NORTH CAROLINA SB655

Allows the licensing Board to conduct criminal history record checks. To Committee on Commerce.

NORTH DAKOTA HB1159

Relates to the jurisdiction of the private investigative and security board. Gives vague definition on what constitutes "security services" Died in committee.

SOUTH CAROLINA SB 186

Provides certain instances in which dead bolt locks requir­ing a key for operation on both sides may be used on exit doors. To Committee on Judiciary.

TENNESSEE HB274/SB656

Relates to locksmith licensing. To Committee on Commerce.

TENNNSEE SB188

Requires that all alarm system contractor employees take and successfully complete the National Burglar and Fire Alarm Association Level 1 training. To Committee on Commerce, Labor and Agriculture.

TEXAS HB2594

Relates to the voluntary registration of locksmiths. To Committee on Licensing and Administrative Procedures.

JOIN THE LEGISLATIVE ACTION NETWORK TODAY!

As we continue to expand our resources and become more competitive in the legislative arena, we need the monetary resources to match our successes. You can help with as lit­tle as $24.95 to the Legislative Fund. This is only the mini­mum that we are asking, and encourage you to give more if you can. Those that contribute will be given a Legislative Action Network Member kit to use in their grass roots efforts. Members who donate $100 or more become Legislative Action Network Council members, and enjoy the following extra benefits: a reserved place of distinction on the special LAN Council; Discounts on ALOA bookstore items; 10 % rebate on all ACE classes; Complimentary Legislative Convention merchandise. Join today online at [www.aloa.org/news/lan.htm](http://www.aloa.org/news/lan.htm).



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MINIMUM QUALIFICATIONS: High school diploma or equivalent. Five years combination locksmith and electronics/security systems experience, including two years supervisor experience. Thorough journeyman level knowledge and skills in mechanical, electro-mechanical, electronic locking and monitoring devices and door hardware. Journeyman level skill in maintenance and repair procedures including pre­ventive maintenance, breakdown repair and troubleshooting, construction, installation and fabrication techniques typical in trade; perform mathematical computations of trade.

Knowledge of ADA specifications and proper use and mainte­nance of hand and power tools, test equipment and electron­ics equipment related to job functions. Valid Georgia driver's license and insurable driving record. Some positions within this classification may require the ability to lift 50 pounds and to bend, stoop and twist.

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BUSINESS FOR SALE

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COMMERCIAL LOCK BUSINESS FOR SALE

Commercial locksmith company specializing in high tech, high security sales, service and installations is for sale. Business was established in 1978 and is located in the Inland Empire of Southern California. ASSA dealer with six keyways and most accounts are on the ASSA system. Residential and auto­motive are currently referred to others, so there is lots of room for expansion. Excellent high security addition to an existing lock business or instant income for a rookie or retiree. Retiring and moving to the northwest, so business is priced to sell fast! Call 909-29-8480 for details.

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COMMERCIAL LOCK BUSINESS FOR SALE

Commercial locksmith company specializing in high tech, high security sales, service and installations is for sale. Business was established in 1978 and is located in the Inland Empire of Southern California. ASSA dealer with six keyways and most accounts are on the ASSA system. Residential and auto­motive are currently referred to others, so there is lots of room for expansion. Excellent high security addition to an existing lock business or instant income for a rookie or retiree. Retiring and moving to the northwest, so business is priced to sell fast! Call 909-295-8480 for details.

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Classified Advertising Policy

Classified advertising space is provided free of charge to ALOA members, and for a fee of $.60 per word, $ 15 minimum for non-members. Classified ads may be used to advertise used  
merchandise and overstocked items for sale, "wanted to buy" items, business opportunities, employment opportunities/positions wanted and the like. Members or non-members wishing to  
advertise services or new merchandise for sale may purchase a "Commercial Classified Ad," for a fee of $1.30 per word, with a minimum of $40. Each ad will run for two issues. For  
blind boxes there is a $5 charge to members and non-members. All ads must be submitted in writing to the ALOA office by the fifteenth of the month, two months prior to issue date. Send  
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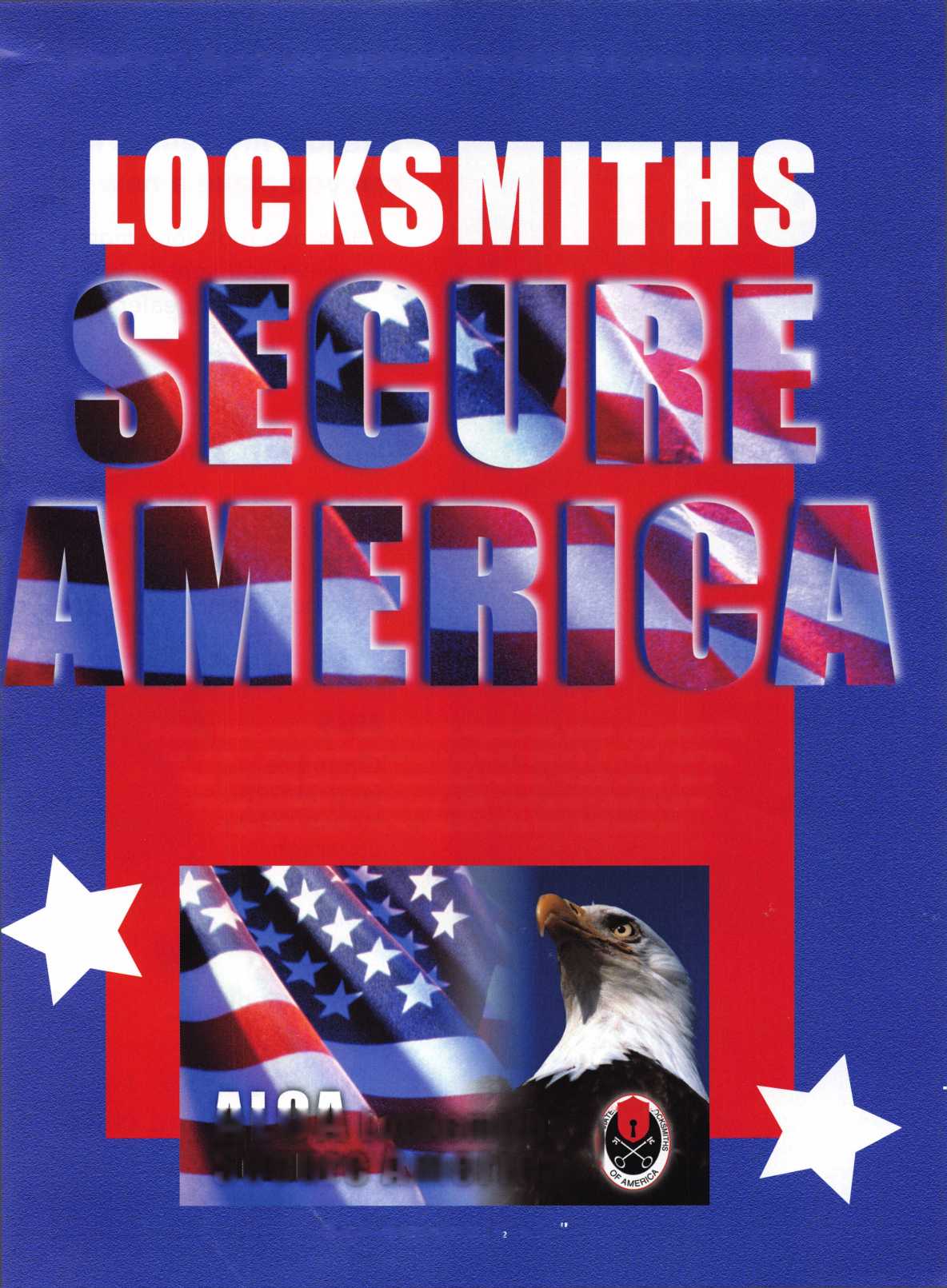
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