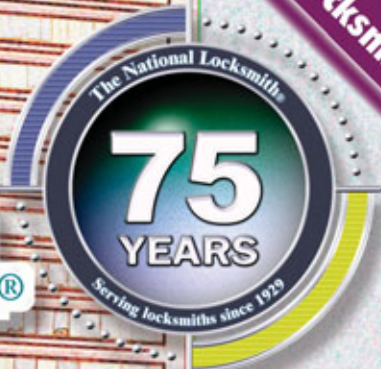


# The National Locksmith

July 2004  
Volume 75  
No. 7  
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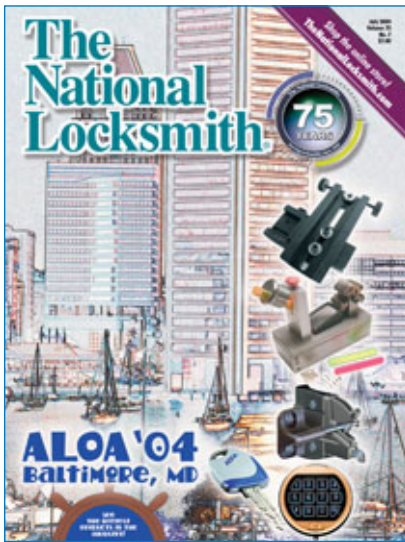
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**On The Cover...**



The 2004 ALOA convention in Baltimore, Maryland will feature several new products this year such as those by Strong Arm, HPC, D&D Technologies, ASSA, and LaGard.

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**National Publishing Company**  
 The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$46.00 per year in the USA; \$58.00 per year in Canada; \$72.00 in all other countries. Single copies \$7.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861.  
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Circle 242 on Rapid Reply





## Is A "Poetry Tax" Next?

### Thank you Corbin Russwin...

Our June 2004 cover featured a lovely photograph of "Corbin Russwin Vineyard Collection." We forgot to thank the company for the image. So thank you to Corbin Russwin and YSG Door Security Consultants!

### Pay the taxman...and pay and pay

Beginning next month, Arkansans will begin paying more sales tax. The rate hasn't increased, but more goods and services have been added to the list of taxable items. The measure was passed during the Legislature's most recent special session as a way to pay for education reforms.

Among the items that will be taxed are: Garbage collection, including the collection of recyclable items; mosquito control; wrecker and towing services; dry cleaning and laundry services; camping or trailer spaces and locksmith services.

The collection of the tax will burden the business as well as the consumer, Allen said. "It makes it more difficult for customers to pay the taxes and it's more for me to have to pay an accountant to keep up with it."

Product has always been taxable, but now labor is as well. Locksmiths will have even more difficulty calculating taxes because the business travels from town to town, with varying tax rates in each of those towns.

### Locksmiths know what to do...

Tarla Thomas has a beef about cop service in Elk Grove, CA. Her 12-year-old nephew had an asthma attack at 1:30 a.m. Tarla and the lad made a quick trip to their all-night drugstore while the boy's brothers, ages 11 and 10, slept. Returning 15 minutes later, Tarla realized she had locked herself out of the house. "I called police and asked for help," Tarla said. "They said, 'What do you want us to do?' I thought that was rude." She called a locksmith. He knew what to do.

### Gas prices fuel cutbacks...

When people complain about high gasoline prices at Shazim Khan's Texaco station in Pompano Beach, FL, he sometimes shows them the wholesale price

he pays a distributor for gas. "I pay \$2 a gallon for regular, and I'm selling it for \$2.039," said Khan.

But the cost affects us all. "I'm getting hammered by fuel costs," said Dean Kallan, a locksmith and disc jockey who lives in Deerfield Beach. Kallan, who has two vans, currently spends about \$150 on gas weekly. His family has been forced to cut down on pleasure trips, food and other items at home.

### Famous locksmith also writes poetry...

U.S. poet August Kleinzahler, a former locksmith, has won one of the world's most prestigious poetry prizes, Canada's \$29,200 Griffin Prize, for his book, "The Strange Hours Travelers Keep."

Kleinzahler, who hails from New Jersey but has lived in San Francisco for the past 24 years, won Thursday in the Griffin's international category over 422 other books. The prize is awarded annually for the best books of poetry published in English the previous year.

*Publishers note: Hey, Mr. Kleinzahler isn't the only locksmith who can rhyme. Here's my ode to this locksmith...who also happens to write poems.*

*When I suffer from writer's block.*

*I simply think about a lovely lock.*

*Though word and phrase I may bumble,*

*I know a wafer from a pin tumbler.*



*Marc Goldberg*

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**Marc Goldberg**  
Publisher



# Mango's Message

## Bank ATMs Converted To Steal IDs

**A**TM card readers and CCTV cameras to retrieve PINs was found installed on legitimate bank ATMs in Austin, Texas recently, although skimming devices have been found attached to bank machines around Boston and Chicago as well.

The equipment used to capture an ATM card number and PIN was cleverly disguised to look like normal ATM equipment (see photos). A "skimmer" is mounted to the front of a normal ATM card slot that reads the ATM card number. At the same time, a wireless camera disguised to look like a leaflet holder is mounted in a position to view ATM PIN entries. The thieves then copy the cards and use the PIN numbers to withdraw thousands from accounts directly from the bank ATM.

One such known con using a similar M-O is Iljmija Frljuckic. It has been reported that Frljuckic stole at least 3.5 million, mostly from ATMs in New York City. Frljuckic accomplished this by purchasing his own ATM machines that are often found in



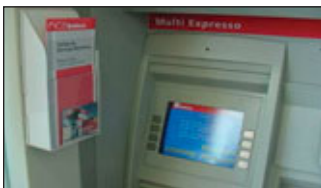
**1. Equipment being installed over existing bank card slot.**



**2. The equipment as it appears installed over the normal ATM bank slot.**



**3. The PIN reading camera being installed on the ATM is housed in an innocent looking leaflet enclosure.**



**4. The camera shown installed and ready to capture PINs by looking down on the keypad.**

convenience stores, gas stations, liquor stores, etc. He would then rig the unit with ATM card and PIN capturing devices, then installed the units in retail outlets.

The ATM fraud ring led by Frljuckic began in late 2001 with operations in California, Florida and New York. At 13 sites, Frljuckic installed machines rigged internally to capture bank data and personal identification numbers. Only after the gang began siphoning money did banks and customers realize they had been scammed. By the time the rigged machines had been identified, they had vanished, along with tens of thousands of dollars.

ATMs have always been a weak link in the banking chain. As a result, criminal activity has been heavily focused on them. If you ever see anything unusual around an ATM, it is recommended that you do not use the ATM and report it immediately to the bank, using the 800 number or phone on the front of the ATM.

One evening I drove into a bank to make a cash withdrawal from an island ATM. Next to the ATM was a drop box with a sign on it stating that they were sorry for the inconvenience, but the drop box was out of service. It then went on to ask that the drop be placed in the box provided. On the ground was a cardboard box, where people had actually put their bank bags. Go figure!

**Greg Mango**  
Editor



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# LETTERS

## Cross Country Now Requires Bonding

Cross Country Motor Club recently warned all locksmiths that you must be Bonded to act as a locksmith service provider. *The National Locksmith's* Bond qualifies. So if you are not currently Bonded by us, please contact us to order. The cost is only \$17 for a subscriber. 630-837-2044

## What a Joke

Give me a break! Your series on the installation of access control hardware by Richard Allen Dickey is a waste of good paper and ink. First of all, why was magnetic hardware chosen for this job? It's a single aluminum door! By using a magnetic lock, he has created several situations for the building's owner. First, now it is a fail-safe locking situation. If anything stops working the building is not secure. Second, if the electronics go bad there is no mechanical way to enter the door. Third, unless he is a certified fire installer, he has to hire a second party to interface with the fire suppression to release on smoke or fire. The better options would have been either a latch lock, egress paddle and electric strike, or even a panic bar with electric release.

If Richard Allen Dickey worked for my company he would be back flipping hamburgers. This appeared to be a clear aluminum door in good shape. After he finished cutting in the transfer

I would have made him purchase a new door for me. He took the time to measure and draw exact lines on the door, why didn't he use a saber saw and file and cut a clean hole rather than use dum-dum putty to cover his mistakes?

Then there is the choice of screws he used, black Phillips for the tabs and slotted screws for the transfer. We throw any slotted screws away as soon as we see them. I can't wait to see him install the electromagnet, he probably won't use any shim on the magnet so the armature does not make a complete contact (ie: the armature hangs below the magnet face).

*Name withheld out of embarrassment for the locksmith industry.  
Michigan*

**Editors Note:** I have so little respect for people who write letters like this, I can't even express it in words. It's not because he or she had something negative to say (I don't have a problem with that at all) it's because they do so and then cowardly withhold their name behind a veil of secrecy. Especially when the person they are attacking isn't hiding his name, or face.

Even if everything in this letter was correct—which it isn't—it is all negated by the fact that it was delivered in such a spineless way.

By the way, when was the last time you wrote a better article that was worthy of good paper and ink? I don't recall reading anything by you! Then again, how would I know, I don't know who you are.

For the record, my name is Greg Mango.

## Proof of Ownership

We received our April issue of *The National Locksmith* a couple of weeks ago. Marc's Commentary on checking the proof of ownership when unlocking cars and making keys was right on the money. Today my brother Steve, answered a call to provide keys for a 2003 Suzuki motorcycle. Upon his arrival at a private residence, something didn't feel right. He decided to make the keys while contemplating how to best handle this situation.

Because the owner couldn't produce the proper paperwork, Steve advised him to call when he had proof of ownership of the motorcycle and then the keys would be provided. A couple of hours later, as expected, the owner called to say he had the paperwork. What the owner didn't know was the Sheriff's Office was on standby for Steve to return

**Continued on page 10**



**E-mail Your Views:**  
[natlock@aol.com](mailto:natlock@aol.com)

Please include your first and last name.

## The National Locksmith

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<b>703602</b>	Ignition unc. GM, MRD In-Dash 1997-04	56.95	3@ 52.95 ea
<b>703719</b>	Ignition unc. Chrysler, Modular w/SB 1998-04	13.95	5@ 12.95 ea
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## Letters

### Continued from page 8

to the scene, copy the VIN from the motorcycle on the invoice, collect his fee for the keys and relay the VIN to the Sheriff. Within minutes, two stolen motorcycles were recovered and our local detention center had two new guests.

We have always tried to do what was reasonable and prudent when providing locksmith services to the public. In this case an ounce of caution was worth a pound of prevention.

*Tim Medlock  
South Carolina*

### Still Lots to Learn

I am the pilot of an EMS Helicopter for my full time job and do locksmithing in my off time, which is rather new to me.

First real-live service call for Dan today. No problem! Reprogram a 1994 Lincoln Continental remote. Customer is my barber, son needed a haircut anyway.

Got the info to reprogram the remote, piece of cake. Turn key on, drop glove box, short two pins on plug, press lock button on remote, shouldn't take more than a few minutes, right?

Ron's Barber shop faces Main St. and he parks right in front of his window. It's Saturday morning and the place is packed. Bored customers watch locksmith attack passenger side of car.

Wow, this is a nice car! Whoops, glove box is full of junk. Spend about five minutes stacking six years of "stuff" neatly on floor. Spend another two picking overflow out of dash by all the wiring harnesses. Barber's customers taking turns walking out to eyeball me.

Found the plug, got my copper wire, no sweat. Shorted pins, car door locks cycle just like they should, but the remote won't make the car respond. Customers begin to chuckle as I start troubleshooting. The locks cycle so the battery in remote must be dead. Barber says it's about four years old. Twenty minutes and a trip to Wal-Mart later, I'm ready to go again.

Turn on key, short plug... nothing. Try to start car, deader than Pee Wee Herman's career. Is it too late to go back to my real job?

My 10-year old is now in the barber's chair. I ask Ron if he has jumper cables, customers begin belly laughing. Ron's eyebrows shoot up towards the top of his head and my son is now going from trim to high-and-tight.

"Sure," Ron says, "The cables are in the trunk." I ask about the trunk key, he says he doesn't have one, was going to ask me to make him one. Battery is so dead keypad doesn't even work. Sweating begins and most of the customers are now in tears. Not sure I want to be a locksmith today.

Twenty minutes later, enough juice to pop trunk. Grab cables, his battery is waaay dead. I'm on phone with Ford Rep, who tries to tell me there is no way to harm the electrical system by jumping that plug.

Ron gives me \$60 and I'm off to Auto Zone to buy battery for customer. I just want to be a helicopter pilot again, let me go back to flying in the dark up in the Sierras, that's easy.

One hour later, customer has new battery. I have an audience who applauds my first successful part of this job. Ford rep tells me serial number of Ron's remote is for another Ford, not a Continental. Considering putting tools on Ebay tonight.

My son now looks like a Marine recruit and none of Ron's customers can stand now from laughing cramps. I realized that I can blush to the shade of a tomato and the darn remote still doesn't work. I clean up and Ron actually says, "What do I owe you?"

I told him, just kick me in the head and we'll call it even. He says, no, gives me my son's haircut on the house and lets me have the core deposit from the battery.

All in all, not counting the three hours of humiliation I netted \$3 more than I was going to charge him in the first place. As my bald-headed son and I drive home I think to myself, whew, this isn't so bad...but I can't wait to get to my regular job.

Anyone need a remote for a Taurus?

*Dan Beauchamp  
California*

### No Checks

I just read the letter from Willie Bowen about refusing to accept checks. Have you noticed that in many restaurants there is a sign that refuses to accept checks? The debtors are almost never prosecuted.

Mr. Bowen did not elaborate about the warrant in debt, but for 30 years I was a locksmith in Los Angeles and Orange County, CA. "Warrant in debt" is not handled in small claims court. It would have to be a Municipal court or higher. If you could do this yourself, what would your cost be in time? What would the cost be for an attorney to do it?

Would Mr. Bowen please take us through this step-by-step and share with us his experience in collecting debts this way and the success rate? What was the average time to collect? What length of time did the debtor serve in prison if any? What state or county was this in?

*Richard Ingeman  
Arizona*

### Now That's Low Tech

I've gone through many of your magazines trying to find a listing for Low Tech Products (based out of Oregon) to no avail. Any help in getting a fax or phone number for them would be greatly appreciated.

*Dwight, Edmonton  
Alberta, Canada*

**Editors Note:** We have been unable to locate or contact Low Tech Products. Don't know if it is still in business.





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## Door Hardware

### **Arrow Pointe Interchangeable Core**

Arrow's Pointe Interchangeable Core offers dealers unmatched flexibility and keying options. The unique manufacturing process in the Arrow Pointe IC Core features four main components: the plug, shell, locking sleeve, and faceplate. This precision process allows for a



stronger core. The Pointe is a standard format IC core and is available in 6- 7-pin, Arrow and competitive keyways.

Arrow Keyways: 1C, 1D (standard) & Restricted Keyways (consult factory for availability) Best Keyways: AB, BB, CB, DB, EB, FB, GB, HB, JB, KB, LB, MB, & QB. 6-Pin: 100CR x keyway; 7-Pin: 7100CR x keyway; 26D & US4 Finishes; Combined and Uncombined; Sleeve Design and Solid Brass Construction.

### **Kwikset Universal 6-Way Steel Latch**

Kwikset has introduced the 6-way steel latch on its complete line of entryway, privacy and passage knobs, levers and handlesets for all Kwikset UltraMax Security, Kwikset Maximum Security and Kwikset Security products.

The ANSI Grade 2 latch, one-piece drive-in collar and chassis feature all steel construction. Works with a Kwikset strike and

are packaged in the finish of the corresponding hardware to ensure that the completed doorway has a consistent look. The Kwikset 6-way steel latch passes the rigorous strength test by BHMA to reach the ANSI Grade 2 certification. The latch is facto-





ry tested to survive more than 400,000 cycles and comes with the standard finish warranty provided on all Kwikset locksets.

### **Pannex by Door Controls International**

Door Controls International, the US manufacturer of Pannex™, has a certified Grade 1 security rim exit device. The patented interlocking latch and strike is virtually impossible to tamper with, pry, or force open, and will resist 2000 lbs of applied force without unlocking the door. In addition to providing maximum security, the Pannex™ Series is versatile for all types of applications including narrow-stile aluminum doors. All devices are weather resistant, and are offered with electric lock/unlock, three different alarm modules, and is available fire rated.



Even though Pannex™ is certified to the highest industry standards, and provides superior protection while fulfilling life safety requirements, the devices are competitively priced and are available in 3 to 5 days from the factory. Pannex™ is the ideal solution on high traffic doors where security and safe egress are your major concern.

### **The Eagle by GU Hardware**

From G-U's New Breed of Security line, the "Eagle"



Automatic Latch system automatically and independently engages at each latch with a G-U patented design. No lever lifting is required to engage locking points; Multi-point latches become deadbolts when door is closed. The entire system is easily locked and unlocked by turning thumb turn 90-degrees inside, or with key outside.

Increased security with multiple locking and 1" deadbolts and weather tightness in all of G-U's New Breed, are insured in their state-of-the-art products with key-in-knob cylinder for easy re-keying, Schlage "C" keyways, a typical U.S. design with deadbolt above latch, and precision manufacturing that makes all G-U products superior.

### **MARKS USA Grade 1 Tubular Deadlatch**

Marks USA has now developed an ANSI grade one tubular deadlatch. This product was created by modifying its grade one tubular deadbolt components to accommodate a new heavy duty, grade one tubular latchbolt. The



latchbolt features a stainless steel deadlocking latch nose with a 9/16" latch throw. The result is an easy to install tubular deadlatch, which is available in both conventional as well as IC core cylinder models.

### **Adams Rite 4593 Latch Pull**

The Adams Rite 4593 Latch Pull™ is a lockable pull handle that offers flexibility of traffic control during and after business hours. It is suitable for all applications, which require free entrance at certain times and controlled, or exit only access at other times. It offers one-handed operation and two modes, which can result in the locking of the door upon closure, or just latching the door to allow easy access.



Its classic looks, heavy duty construction, and flexibility has allowed the Latch Pull, along with a deadlatch for metal stile glass doors, to blend in with any architecture and become a popular replacement for a traditional deadbolt in narrow, medium and wide stile aluminum doors. Retrofitting with the Latch Pull is a fast and simple operation that requires a minimum of tools. All necessary mounting hardware is included with the device as well as preparation

**Continued on page 16**





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templates for both right handed and left handed operation.

The Latch Pull is available in 3 painted finishes, has an electrification option either pre-installed or in kit form and is ADA compliant. The device is adaptable to use with either 5-pin, 6-pin or 7-pin lock cylinders, and works with Adams Rite 4500, 4700 latches and 8300 & 8400 series exit devices.

**Yale 8800 Mortise Lock**

The new Yale 8800 Series of Grade 1 mortise locks combine the dependable quality of the Yale brand with features and functions never available before on a Yale mortise lock.

The 8800 features a Quick Reversible Latchbolt that allows the handing to be changed in seconds. To reverse the handing, simply press the latchbolt retaining plate, pull out the latchbolt and rotate 180 degrees to the desired handing position. The 8800 also comes with a standard non-handed curved lip strike, which eases the operation of the latchbolt, ensuring positive latching. The non-handed strike also simplifies the ordering process.



The 1" throw stainless steel deadbolt in the new 8800 Series extends further back into the case when in the locked position, providing added stability and resistance to abuse. The 8800 fits the same door prep at the 8700 Series mortise lock, so retrofits

are simple. All trims available for the 8700 will also fit the new 8800. In addition to those functions currently offered on the 8700 Series mortise lock, the 8800 Series adds nine new functions, including the Double Cylinder Intruder Classroom Security Lock.

**SELECT Hinges**

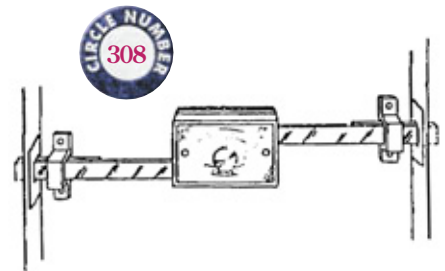
Doors with butt or pivot hinges can sag and bow, causing locks to fail. SELECT full, and half-surface continuous gear hinges salvage doors and frames and solve door problems, helping facility managers avoid maintenance costs and headaches for life. Independent lab tests on an FRP door confirm that SELECT Hinges™ will perform well over 10,000,000 cycles, more than some building entrances see in a lifetime.



SELECT Hinges™ are guaranteed for the life of the entrance because exclusive Pair-Matched™ components and lifetime lubricants assure years of trouble-free hinge performance. And SELECT provides the industry's fastest delivery time.

**Frontier Double Bar Lock**

The Frontier Double Bar Lock is a vandalproof locking device designed for in and out swinging doors. The lock, which is mount-



ed in the center of the door, drives two horizontal bars in opposite directions into the door frame. The bars are moved by a keyed entry on the outside and a thumbturn knob on the inside. The tailpiece of the keyway passes through a gear drive, which moves teeth on the bars inside the lock housing. The outside is protected by a vandal proof plate which installs over the cylinder.

**Baldwin's UL Listed Mortise Locks**

Baldwin Hardware Corporation has not only successfully passed the UL Listing test criteria for its mortise locks, but has achieved a 3-hour rating, the highest possible for residential locks. Now architects and builders can confidently specify both UL Listed locks and trims in architecturally correct styles and fashion finishes from a single, trusted source. With the introduction of Baldwin's new UL Listed locks and trims, it is no longer necessary to mix hardware from one supplier with a mortise lock from another. Their new UL Listing covers all







# POWER UP.

**E-PLEX™** Built on more than 40 years of pushbutton lock experience, the new E-Plex 5000 is strong, durable and reliable – combining ease of use with the added security of electronic access control. The E-Plex 5000 accepts 100 access codes and records 3,000 audit events, including key override usage. The lock is easy to install and does not require wiring through the door. Locks are quickly programmed with the lock's pushbuttons or managed with optional Microsoft® Excel based software as your user group grows. Contact Kaba today to find out how powering up with E-Plex can put you in command of access control.

- **PROVEN SIMPLEX® MECHANICAL RELIABILITY**
- **EASY TO INSTALL**
- **EASY TO MANAGE**
- **MULTIPLE ACCESS CODES**
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TOTAL ACCESS

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Baldwin Estate mortise entry and Estate passage and privacy hardware, roses, cylinder collars and turnpieces with backplates in any one of their rich spectrum of stylish finishes.

Baldwin's UL Listed mortise locks will provide architects and specifiers with the ideal decorative hardware solutions to three major challenges: expressing the owners decorative vision, maintaining the customers sense of personal style, and meeting the building inspectors code requirements.

**S Parker Hardware Series 441BC Door Closer**

Building owners and facility managers as well as architects of office buildings, retail stores commercial buildings and schools can now install ADA Compliant, size 1 through 6, power adjustable door closers in their buildings. Newly available

duty arm and heavy-duty stop arm with hold open.

Featuring adjustable sweep and latch speeds with separate valves to adjust each speed, this door closer can be installed with regular arm (120° door opening) parallel arm (180° door opening) or top jamb (120° door opening). The S. Parker Series 441BC can be installed on either side of the door and can be ordered with an adjustable delayed action closing. It comes complete with a high impact molded plastic, full cover as well as a peel-and-stick template to facilitate installation.

**Security Products Inc. Door Package**

Security Products Inc. unleashed its new line of extreme duty complete door packages. It comes completely pre-assembled. The door arrives ready for installation, saving hours on the job site.

Boasting specifications like fully reinforced galvanized steel construction, a 14 gauge fully welded face and throat frame, 16 gauge fully reinforced door, one continuous door hinge rated at 1.5 million cycles, a 25 year warranty, ANSI grade 1 door closure,



from S. Parker Hardware, this UL listed door closer is in compliance with ANSI A156.4 Grade 1. It also conforms to the Americans With Disabilities Act and ANSI A117.1 specifications for making buildings and facilities accessible to and usable by the physically disabled. Specified as Series 441BC, this multi-size full feature door closer is constructed of cast iron. It is manufactured under ISO 9002 guidelines and is available in a choice of arm types including heavy-



24" high stainless steel interior and exterior kick plates. These doors also come standard with the ultra high security exit hardware combination of the Monitor 4000 door alarm and the MP5 Police 4 point locking panic bar. The doors can be ordered with several different options of powder coat or urethane finishes.

**Safes & Safe Products**

**Perma Vault Pistol Box**

Designed for easy carrying or bolting in the trunk of a car, Perma-Vault's Model PV-1-PL Pistol Box provides firearm security while still allowing easy push-button lock access for the owner. Ideal for use in the home or by law enforcement agencies, the U.S. made, 14-gauge steel, 11-pound pistol box has a comfortable suitcase style and is secured with an Illinois Lock push-button lock.



The pistol box is lined with heavy duty felt on the bottom and sides and thick egg crate foam on the top. The pistol box measures 4-1/2" high by 12" wide by 10" deep.

**Phoenix Safe Data Commander Safes**

Phoenix Safe International, LLC now offers 3 new large data safes. The Data Commanders range from 4.59 - 15.75 cu. ft. capacity. The safes carry the SP Class 125-2 hr. fire rating, a 2-year parts & labor warranty, and a lifetime free-after-a-fire replacement guarantee.





The safes are equipped with an easy to use EDL electronic lock, and also include standard accessories of multi-media drawers and adjustable shelves.

The Data Commanders are in stock for quick ship purposes, and ship within 48 hours. Like all Phoenix products, freight is included in the pricing for shipment anywhere within the 48 contiguous US states, and Phoenix's minimum order is 1 product.

**LA GARD Introduces New LGBASICII**

LA GARD, Inc., has released an upgrade to its popular LGBA-

SIC electronic locking system, designated the LGBASICII. The new LGBASICII has been redesigned to provide original equipment manufacturers and authorized resellers a simpler, more flexible installation. The LGBASICII keypad design melds the angular design of the current LGBASIC keypad with the snap-on style of LA GARD's popular SAFEGARD product. LA GARD offers a choice of finishes including satin chrome, bright chrome, polished brass or black, and a battery compartment located under the keypad.

Used with LA GARD's high security Dual-Handed Swingbolt lock, which is equipped with a non-volatile memory, the LGBASICII will not lose its code if the battery is disconnected or suffers a power loss. The lock is powered by a 9-volt alkaline battery and includes an audible and visual signal when the battery is running low. Another feature in the LGBASICII is the "wrong try penalty." This feature engages when a person enters an invalid code four consecutive times. It will activate a "time penalty" and disallow the user to operate the lock until the penalty period has expired.

Flexibility is the hallmark of LA GARD's product line and for that reason the LGBASICII can be used with either the 3765-2 or the 3260 Dual-Handed Swingbolt Lock.

**Mutual Safe Company's New Gun Safe**

Mutual Safe Company, Inc. of Costa Mesa, California is proud to introduce it's newest range of gun safes; the newly redesigned MK range. The MK gun safe offers magnificent protection against both fire and burglary. The safes are constructed of 1/4" steel in the door and back and 1/8" steel in the rest of the body. The locking mechanism is protected by a state of the art relocker. Five 1" locking bolts are standard in all models to protect your vital contents.



The safe is protected from fire by a sheetrock-like fire retardant material recommended by UL. The interior is beautifully carpeted and comes with either four adjustable shelves or a combination of gun racking and adjustable shelves. An optional electronic upgrade is available



 <p><b>HL Flake Company</b> Houston Texas 800-231-4105 888-329-0601fax</p>	Row 200 400 600 800 1000 1200	 <p>Entrance</p> <p>ALOA Booth</p> <p>HLF</p> <p>COME SEE US!</p>	<p>HL Flake Booth #1256</p> <p><b>A Full Line Distributor</b> 19,000 items</p> <p>July 23-25 2004</p>
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from the standard combination lock. There are three models available that consist of three different sizes.

### **New X-0 Troubleshooter CD**

MBA USA has developed a simple method of troubleshooting the entire series of X-0 electronic safe locks. Their new interactive CD is loaded with great advice, color photos, and live video clips that will help you get your problem locks open fast. Simply select the lock you are



having problems with and the troubleshooter leads you step-by-step, analyzing the problem and suggesting probable solutions. Bad LCD's, stubborn stepper motors and dozens of other issues are dealt with in a clear logical manner.



### **CSS To Unveil Modular Self-Checkout Solution**

Corporate Safe Specialist's new modular self-checkout solution called SOS, goes beyond traditional benefits of self-checkout by adding their own unique features like the JCM recycler. This allows it to recycle cash, making it a single payment and collection device at a single point on the kiosk. It also is the first dual use cashier kiosk system on the market. A "safe inside" cash handling feature makes SOS both customer friendly and cash management secure.

The system not only saves the customer time, but by connect-

ing to a wide variety of existing front and back office solutions, SOS can also automatically send shift or end-of-day reports to existing databases. Connecting to existing POS, CCTV and Smart Safe systems, makes it a tool in cash management both onsite or off and open architecture means the retailer can grow with technology by adding new software and devices.

### **ADESCO Deposit Safes**

The newest editions to Adesco's business line take advantage of the latest technologies available. This series offers small business with an excellent storage solution at an affordable price. These safes include their VisionGard spy proof dial and a lock that is UL tested to resist surreptitious entry.



Doorjambes are reinforced and tied to the body of the safe with solid blocks of steel, creating steel-to-steel resistance against a sledgehammer attack. The RD models feature a large 9.75 x 3.75 x 6 package size and the PD series offers a max package size of 3 x 11 x 8.

### **New StrongArm MiniRig Uni-Temp**

The Universal Template attaches to the safe's dial ring mounting screw holes for safe drilling with the MiniRig. Uni-Temp uses an X-Y axis system, built-in scales and an index to allow you to set specific up, down, right and left measurements from the spindle hole center.



Set-up is very fast. Lock in your setting, attach the MiniRig and start drilling. The MiniRig quickly removes from the Uni-Temp for bit changes and hole inspections without re-adjusting. An additional mounting provision allows Uni-Temp to be mounted anywhere on a safe or vault, not just the dial ring screw holes. You can now use your favorite drill points on all types of locks with the MiniRig and Uni-Temp. In addition you can use it with a lever bar rig or magnetic drill press for accurate positioning and drill points.

### **Cash-Link Coin Vending Safe**

Cash-Link manufactures a complete electronic update kit, designed with the latest components, and technology, which will allow the professional Locksmith to convert any existing TACC II thru TACC II R Coin Vending Safes, into a more reliable product with 67% fewer parts.

The kit includes, a new Touch panel, new Main Board, new





Lower Sensor Board, new Low Voltage Wall Transformer, and all wiring harnesses required. Cash - Link also carries a full line of Supplies, New, Tested, and used parts for the TACC II.

## Miscellaneous Products

### Medeco's New Padlock Line

Medeco High Security Locks is introducing a new line of padlocks. The new Medeco High Security Padlocks are compatible with all Medeco technologies and cylinders, including Original, Biaxial, Medeco3 and KeyMark, as well as small and large format interchangeable cores. Available September 1, the new line replaces and simplifies Medeco's previous padlock line with basic padlock body styles that can be ordered to accept a variety of cylinder types for keying into door hardware systems.



The black chrome, hockey-puck style padlock, offering attack resistance in excess of 1200Lbs. of force, is the first padlock from the new line and available now. The new padlocks are covered by a two-year limited warranty and are available through Medeco and authorized Medeco distributors.

### Trailer Lock from American Lock Company

American Lock Company has developed the Defender, a heavy-duty, high security trailer locking device, which can lock down a semi trailer and help

prevent its theft when the trailer is not hitched to the tractor. The device's best application is for loaded trailers which need to be parked outside of a protected marshalling yard or truck terminal.

The locking device is a metal cap, which fits over the trailer's crank handle. A notch on the unit fits directly over the crank handle. Once the Defender is placed over the handle, a Model 784 American Lock padlock can

be placed through receiving holes on the back side of the cap. After making sure the shackle is behind the crank



Continued on page 24



two  
for the  
price of  
one

Dual reading technology / active and passive

PROXIMITY CARD READERS

A unique feature of the DKS proximity card reader product line is that the card readers are compatible with both passive and active tags. This allows a mixing of different cards and tags to achieve desired read ranges in different locations without having to install a second card reader or carry two tags. These readers feature a cosmetically appealing design that will blend in with any architectural design and offer high durability and reliability



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Through Innovation, Quality Control, and our insatiable drive to improve, PRO-LOK locksmith tools have become the industry standard for excellence. All our our picks are manufactured from the finest full hard spring stainless steel, making them the strongest, most durable picks available - with the added advantage of being rustproof. Other companies utilize riveted construction to attach their handles - a method in which rough surfaces are inherent. We developed a better way. Our exclusive rivetless construction leaves the stainless steel handles smooth from end to end, making PRO-LOK picks both beautiful and comfortable to use. Each set of our premium quality tools comes to you in a soft, luggage quality, top grade leather case, providing secure, handsome storage. Compare - and like so many others, you'll discover the PRO-LOK advantage. Thank you for choosing PRO-LOK.



Comfortable, smooth rivetless construction

Rust proof, Full hard spring stainless steel

## Superior Quality, Construction & Materials

## Tempered Stainless Steel

## Rust Proof Picks












## Smooth Rivetless Construction

## Full Hard Spring Stainless Steel












## Deuburred & Burnished to Soft Luster Finish

## The Strongest & Most Durable Picks Available!

### Picks with Handles

-  PKX-DB-H Double Ball-Handle
-  PKX-DM-H Double Mountain-Handle
-  PKX-HDL-H 1/2 diamond large-Handle
-  PKX-HDS-H 1/2 diamond small-Handle
-  PKX-KE-H Key Extractor-Handle
-  PKX-LC-H Large Comb-Handle
-  PKX-LH-H Large Hook-Handle
-  PKX-MH-H Medium Hook-Handle
-  PKX-SB-H Single Ball-Handle
-  PKX-SC-H Small Comb-Handle
-  PKX-TR-H Traditional Rake-Handle

### Picks without Handles

-  PKX-DB-P Double Ball-Plain
-  PKX-DM-P Double Mountain-Plain
-  PKX-HDL-P 1/2 diamond large-Plain
-  PKX-HDS-P 1/2 diamond small-Plain
-  PKX-KE-P Key Extractor-Plain
-  PKX-LC-P Large Comb-Plain
-  PKX-LH-P Large Hook-Plain
-  PKX-MH-P Medium Hook-Plain
-  PKX-SB-P Single Ball-Plain
-  PKX-SC-P Small Comb-Plain
-  PKX-TR-P Traditional Rake-Plain

### Misc. Picks & Tension Wrenches

-  PKX-TW-F Tension Wrench-Forked
-  PKX-TW-L Tension Wrench-Light
-  PKX-TW-M Tension Wrench-Medium
-  PKX-TW-R Tension Wrench-Rigid
-  PKX-TW-TL Tension Wrench-Long Twist
-  PKX-TW-TS Tension Wrench-Short Twist
-  PKX-DR-C Combo Diamond/Rake
-  PKX-HR-C Combo Hook/Rake

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# STAINLESS STEEL PREMIUM PICKS & SETS

## PKX-11 11 picks & case

This popular set includes 3 picks with stainless steel handles, 3 standard picks, a double ended slim line pick, broken key extractor and 3 tension wrenches in soft luggage quality leather snap case.



## PKX-14 14 picks & case

Our most popular pick set comes with 9 picks and a broken key extractor, all manufactured of tempered stainless steel and all with rivetless stainless steel handles, 4 tension wrenches in a soft luggage quality leather snap case.



## PKX-20 20 picks & case

This set contains 14 assorted picks (6 with rivetless stainless steel handles), a broken key extractor and 5 tension wrenches in a soft luggage quality zipper leather case.



## PKX-32 32 picks & case

This large set includes a variety of tempered stainless steel hooks, rakes, balls, diamonds, key extractors, and tension wrenches in a soft luggage quality zippered leather case.



## PKX-62 62 picks & case

Open the quality zippered leather case and you'll find the finest lock picks made. The PKX-62 includes an array of hooks, diamonds, balls, rakes and broken key extractors manufactured of tempered stainless steel and features our rivetless stainless steel handles that provide maximum picking comfort, six tension wrenches, and our PKX-WP5 warded pick set.

Dedicated to  
**Chloe Jade**  
May 2, 2004

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shaft, the padlock can be closed and locked, securing the shackle from intrusion.

Locks such as the Model 784 can be keyed alike for multiple application across a trucking fleet, or can be masterkeyed to allow access to only certain operators. The Model 784 is created from a solid bar of case hardened steel and a cylinder milled from solid brass with either a 5- or 6-pin tumbler.

### **D&D Lokk-Latch Round-Post for Chain Link**

D&D Technologies has a new model of the company's popular Lokk-Latch®. The Lokk-Latch Round Post, model LL5ARND, fits chain link and other round posts with diameters ranging from 1-7/8" to 2-7/8", and gate frames ranging from 1-3/8" to 2". The latch is key-lockable, fits up to 2" gate gaps, and has an optional push-button External Access Kit. D&D also introduces the Tru-Close® self-closing Round Post Hinge for heavy-duty gates.



Ideal for larger gates up to 132 lb., the TCHDRND1 model fits post diameters of 1 7/8", 2", 2-3/8" and 2-7/8", and gate frames of 1-3/8" and 1-5/8". The TCHDRND2 fits fence post and gate frames 1-7/8" to 2". Like other D&D gate hardware products, these new products are made of molded, glass-reinforced polymers, so will not rust, and come with a Limited Lifetime Warranty.

### **Tiger Line Introduces Two Trailers**

Tiger Line announced the Tiltster and the Trailevator.



These two trailers are capable of hauling many heavy loads and will save you the expense of buying a second truck for hauling. The Tiltster features a low bed trailer that tilts and it's available in capacities ranging from 3000 to 7000 pounds.

The Trailevator is a hydraulically operated, elevating trailer which not only lowers itself to ground level for easy loading; it also lifts its own weight as well as the load back to the hauling position.

### **Medeco's FileSecure**

Medeco announces the addition of the FileSecure file cabinet locking bars to their product line. FileSecure bars are ideal for storing sensitive material and preventing unauthorized access. A slight upward motion of the inner slide bar releases all locking points allowing the spring loaded bar to gently swing out of the way. The compact design of FileSecure gives sufficient clearance for unrestricted access to adjacent file drawers.



FileSecure bars are available in various sizes to fit anywhere from one to five drawer cabinets.

All bars are constructed of 16 gauge formed steel using a durable powder-coat acrylic enamel finish. FileSecure bars are available in a combination Medeco Black/Grey or Chrome/Orange. The inner slide bar interlocks with a locking lug at each drawer opening when in the locked position providing added security. FileSecure bars can be combined with Medeco padlocks to add an extra layer of security and key control to the physical protection provided by the FileSecure bar.

## **Automotive Products**

### **Lockmasters Keyless Remotes Packages**

Lockmasters' new Keyless Remote Packages are make, model, and year specific and are specifically designed to cover a wide array of applications for a very minimal investment. Packages feature new, replacement remotes, application guides and complete programming instructions for all applications in the package.

For as little as \$100, the locksmith can now purchase a remote package that covers dozens of the most popular vehicles on the road today. A variety of packages are available covering Ford, GM, Honda and





Mitsubishi and programming instructions are thorough and easy to understand.

**Bianchi TD-3000  
Transponder Detector**

Bianchi USA has recently introduced the TD-3000 transponder detector. The TD-3000 enables automotive specialists to cut late model keys with confidence. A simple push of the button and the advanced technology will detect the presence of a transponder. The digital display will show the text results.



The TD-3000 identifies the most complete range of automotive transponders in use today including both fixed and encrypted versions of Texas Instruments, Megamos, Philips, and Temic. The innovative, compact, and light design make this easy to use tool a must due to the high saturation of transponder equipped vehicles in the marketplace today.

**KeylessRide Unveils  
New Products**



KeylessRide announced the immediate availability of two new Keyless Entry Service Packs to the locksmith industry. Their new keyless entry service packs, used in conjunction with Vetrionix Corporation's Tech2 and ASP's T-Code scan tools, allow locksmiths to offer a much



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**Jo-Van Distributors**  
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Toll Free: 1-888-752-7210  
FAX: (416) 752-3845

**Doyle Security Products**  
Minneapolis, MN  
Phone: (612) 521-6226  
Toll Free: 1-800-333-6953  
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Toll Free: 1-800-523-2924  
FAX: (215) 592-1255

SECURITY DISTRIBUTORS, INC., Dallas, TX

wider range of replacement remotes serving many of today's vehicles stated.

An increasing number of GM and Chrysler-Jeep vehicles require scan tools for remote programming. Their new service packs will help locksmiths to provide consumers with an alternative to their local dealerships for their keyless entry needs.

### **2004 Fast Facts**

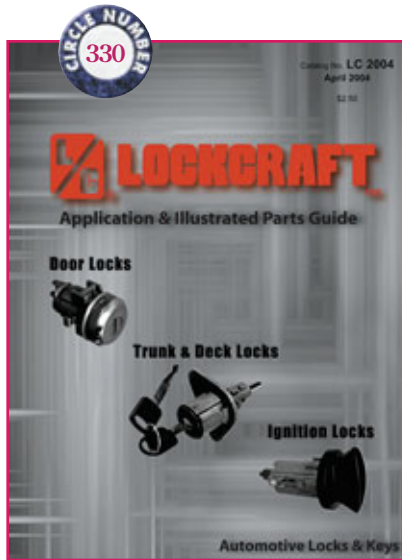
Sieveking Products Co. proudly introduces the 2004 sixth edition of Fast Facts™ the encyclopedic index of auto and motorcycle key making facts. Fast Facts™ has over 2700 listings (1960-2004), with 425 auto key plates and 147 cycle key plates. The sixth edition is available in the spiral bound 6"x11" desk size and the 3-1/2" x 6 1/4" Perfect Bound Pocket Size.



Fast Facts™ has added many new ITL numbers, Pack-a-Punch information, HPC CodeMax numbers, Aero & Baxter Try-out Keys, Jet and A-1 key numbers. Expanded "Helps" section includes all the latest "Transponders," the newest key numbers, code series, and step by step transponder originate, duplicate, and emergency start methods.

### **Lockcraft Lock Key Catalog**

The new 2004 Lockcraft Automotive Locks and Keys Catalog includes new popular part numbers, enhanced diagrams and images, and cross referencing. Altogether, over 300 new applications have been added and are included.



The Lockcraft Application Guide and Parts Catalog is divided into three sections - Application Guide, Parts Catalog and Reference. To determine the correct ignition, door or trunk lock application for a specific vehicle see the Application Guide. To make part search easy, over 50 pages offer a complete listing — by make, model and year in alphabetical order — of all the vehicles for which parts are available. Both coded and uncoded locks are available in chrome or black finish.

The Parts Catalog contains improved images and detailed descriptions of all Lockcraft automotive locks. Don't second guess your order; verify it with a visual in the Parts Catalog section. In addition to locks, the Parts Catalog features domestic and import automotive service kits with a collection of the most needed, and sometimes hard to find, parts to complete a job. Next, Lockcraft key blanks in solid brass and nickel plate are pictured for the most popular manufacturers. Plus, Lockcraft manufactures the only aftermarket VATS key with a lifetime warranty. Finally, Lockcraft provides the locksmith with all the tools necessary to complete a job quickly and correctly, identified in this section by photograph and detailed copy.

Competitor and OE cross-references have been updated in the Reference section. You can use the Parts Cross Reference to check the availability of our OEM-quality Lockcraft parts based on the part number of other automotive lock manufacturers. To make purchasing fast and efficient, an Authorized Distributor list is included in the back of the catalog. For ease of use the list is divided by state.

## **Electronic Security**

### **Kaba Access PowerLever® PROX 9000**

The battery-less PowerLever PROX 9000 combines the convenience of PROX with PIN access to provide dual credential access control for up to 3,000 individual user codes. The lock provides access control flexibility by allowing either single or dual credential access - and is compatible with industry leading brands of exit devices.

Easy to use software simplifies user management, and battery-less operation reduces the lifetime cost of ownership, and the hassle of regular lock maintenance. An extensive 30,000 event audit capacity adds security and peace-of-mind.

Call or visit our website to learn how to make PowerLever dual credential security work for you.





### Adams Rite

Adams Rite is so confident that you will be amazed by the MS® Maglock that if purchased and installed before December 31st 2004, buyers will receive a randomly selected VISA gift card worth anywhere from \$50.00 to 500.00!



Here are the facts: The MS Maglock is only about 2" x 6", but features an amazing 4,000 pounds of holding force while weighing only 4 pounds! That's a

serious size to strength ratio. What does that mean? It will fit almost anywhere while providing maximum security, and its light weight, custom mounting plate and special marking template makes installation a piece of cake. In a nutshell, the MS Maglock is the only maglock you will ever need.

### ASSA Cliq

ASSA is proud to introduce an intelligent lock system that combines the best of design and electronics in the smartest possible manner. They call this technology Cliq. ASSA Cliq technology is built into a new generation of ASSA Twin Cliq lock cylinders to



create a lock system with built-in intelligence. ASSA Cliq is developed from the renowned ASSA Twin cylinders. This means that the same high quality, proven mechanical security, tested and approved by insurance companies, is guaranteed.

All of the technology fits into the present cylinder specifications. As opposed to existing electronic and electromechanical lock technology, ASSA Cliq systems do not require wiring, an external power source or extra equipment of any kind. Just take it out of the box and install. The ASSA Cliq system is easy to use; all the user needs is their personal key. Since every key has its own identity, it becomes the "personal property" of the key holder.

### RS2 Technologies Easy Access Control Package

Access It!® Lite from RS2Technologies is a user friendly, entry-level, out of the box

*Continued on page 30*

# FASTRACK

Hardware Inc.



**Koala Corporation**  
Manufacturers of child care products

# Yale®



**Norton®**  
Powermatic Door Controls



Alarm Lock Systems Inc

**KROY®**  
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# InstaCode 2004 with our new Master Key Module (Module is an optional feature.)

More Codes!  
More Features!

**Design a grand master system and send it right to your electronic key machine!**

If you haven't seen InstaCode 2004, you haven't seen InstaCode!

**New for 2004...**

- Optional master key module allows you to design a grand master system and send it right to your electronic key machine.

- Add your own code series
- Add your own code cards
- Cad cam graphics of keys show Depth & Space
- More vehicle openings
- New code series

**Additional features...**

- Free internet updates mean no waiting for new codes & features
- Transponder programming info onboard
- Vehicle look up by make, model and year
- ASP part numbers and labor times

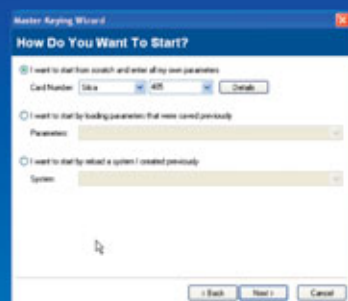


Create a Master Key System, first window.

Main permutation.



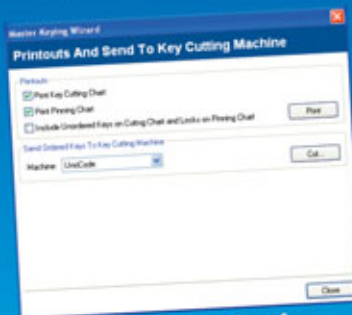
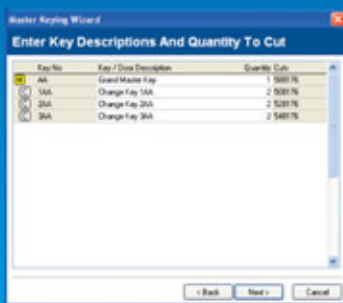
The solution.



How do you want to start?



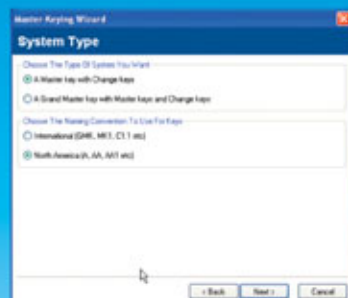
Key descriptions and quantities to cut.



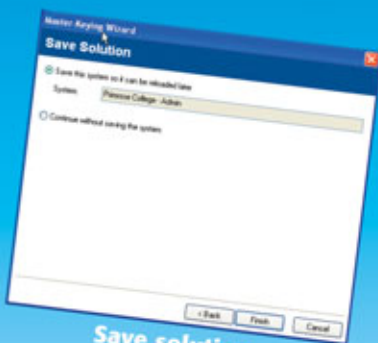
Printouts and send to key cutting machine.



Modify parameters.



System type.



Save solution.

W.H. Software

Learn more

**You deserve the best! You deserve InstaCode!**



# InstaCode 2004 puts the power in YOUR hands!

**The feature list goes on and on.  
How does your software compare?**

**Pay as little as \$18.95 a month!  
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630-837-2044**

FEATURE	InstaCode	The Competition	FEATURE	InstaCode	The Competition
<b>SEARCH OPTIONS</b>			<b>FUNCTIONALITY</b>		
Code number	✓	?	Add your own code series	✓	?
Manufacturer	✓	?	Make your own code cards	✓	?
Model and year	✓	?	Master keying Module included	✓	?
Key blank	✓	?	Build a grand master keying system and download it to your electronic machine	✓	?
Card	✓	?	Password protection available	✓	?
Lock type	✓	?	Sort key blanks into desired order for display	✓	?
Search on any combination of criteria	✓	?	Find partial bitting	✓	?
<b>DATA</b>			Progression chart to eliminate wastage	✓	?
6000 series • 2.5 billion codes	✓	?	Shows picture of cut key	✓	?
99 key blank manufacturers	✓	?	Stores key hook for each key blank	✓	?
Key blank cross reference	✓	?	Stores client information	✓	?
Key blank profile pictures	✓	?	Stores user notes against each series	✓	?
Key blank pictures	✓	?	Supports laser and plunge cut keys	✓	?
Vehicle opening instructions	✓	?	Your choice of display units (inches or mm)	✓	?
Transponder programming instructions	✓	?	Select manufacturer, model, key blank, etc from list by typing in first few characters	✓	?
Complete ASP catalog with color pictures	✓	?	<b>PRINTING</b>		
Airbag safety instructions	✓	?	Print HPC Cards	✓	?
Lock wafer positions	✓	?	Print a whole series	✓	?
<b>ELECTRONIC MACHINES</b>			Print the current code and it's data	✓	?
Silca UnoCode	✓	?	Configurable printer and printer paper tray	✓	?
Silca UnoCode 299	✓	?	Choose letter or A4 size paper	✓	?
Silca UnoCode 399	✓	?	<b>THE SOFTWARE</b>		
Ilco UltraCode	✓	?	Cad Cam drawing of key graphically shows depths and spaces	✓	?
ITL 9000	✓	?	Intuitive user interface	✓	?
ITL 950	✓	?	Live updates from the Internet	✓	?
CodeMax	✓	?	Supports mouse and keyboard	✓	?
ECM 200	✓	?	Microsoft Windows application	✓	?
<b>MANUAL MACHINES</b>			Licensed to run on 5 machines in the same office	✓	?
HPC 1200/Blitz	✓	?	Configurable personality	✓	?
HPC Punch	✓	?	Step-by-step manual	✓	?
Curtis	✓	?	Free phone support	✓	?
Framon	✓	?			
A1	✓	?			

Mail in coupon below OR fax coupon to (630) 837-1210.

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**YES Send me InstaCode 2004 without Master Key Module for \$695.00**

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Exp Date \_\_\_\_\_

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access control software package, designed from the ground up with ease of use as a cornerstone. The package can have up to 32 readers, access levels and time zones and up to 32 time zones. The familiar Outlook style interface, along with clever wizards, results in an operational access control system in minutes instead of hours.

Frequently performed operations, such as adding cards and running reports are transformed into simple, step by step tasks through the use of the built in wizards. The package can be easily upgraded to the company's flagship Access It! Software package.

**SDC's New Electrified Locksets**

The new SDC 7800 series Electrified Mortise Locksets provide building and fire life safety code compliant operation and are UL listed for fire rated doors. The door stays latched even when unlocked, maintaining fire door integrity. Choose from the SDC manufactured lever lockset or



send the brand lockset of your choice to SDC for conversion to electrical operation.

SDC lockset features include: retrofit of major brand mechanical locksets; field reversible fail-safe-failsecure modes; field selectable function - locked on outside or locked on both sides; field reversible handing; Dual 12/24VDC input; lever clutch mechanism; and full monitoring and REX output capability. Applications include office doors, work centers, elevator lobby doors, stairwell doors, exit doors and more.

**Folger Adam Electric Door Controls**

Folger Adam is pleased to introduce a new line of mag locks with simple installation and wiring requirements, featuring dovetailed mounting brackets and internal splice chambers with removable terminal strips on the FAM 38 and FAM 68 Series. Model FAM38: provides 600 pounds of "traffic control" security and is recommended for applications where physical assault on the door is not expected, such as access-controlled interior rooms and secured areas within buildings.



Primary benefits of this model are its lower cost and more compact size. Model FAM68: has a holding power of 1200 pounds, while still offering the same built-in splice chamber and bracket mount design as the FAM38. The FAM68 is appropriate for exterior and perimeter doors through which

criminals could gain entrance to cause substantial economic loss. Entry cannot be forced without special tools or before the door and frame actually gives way.

**New IR Recognition Systems FingerKey DX Reader**

IR Recognition Systems, the biometric component of Ingersoll-Rand's (IR) Security & Safety Group's Electronic Access Control Division (EACD), today announced the debut of its new FingerKey DX fingerprint access control reader, a low-cost biometric alternative designed to secure smaller user populations. The FingerKey DX reader includes a keypad and LCD display. An optional proximity reader, memory and Ethernet upgrades are also available. A user simply enters a PIN code or presents a proximity card, which calls up a template to scan. Then, a user places a finger on the FingerKey reader for verification against that local template. Verification takes less than two seconds.



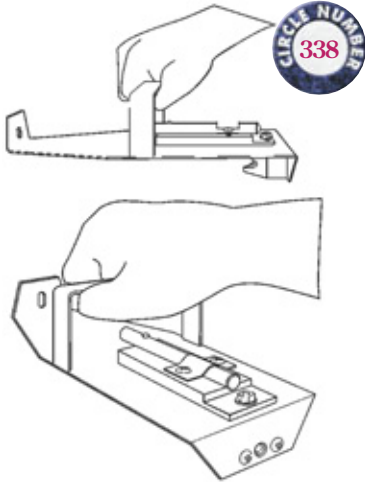
Two fingers per user can be scanned into the system. Fifty users is the standard configuration, but the FingerKey reader can handle up to 100 users with an optional memory upgrade. FingerKey units can also be linked together via an RS-485 network to share enrollment information. No PC is required to enroll users, as the enrollment reader will automatically download to other FingerKeys in the network.



## Tools & Accessories

### KEEDEX

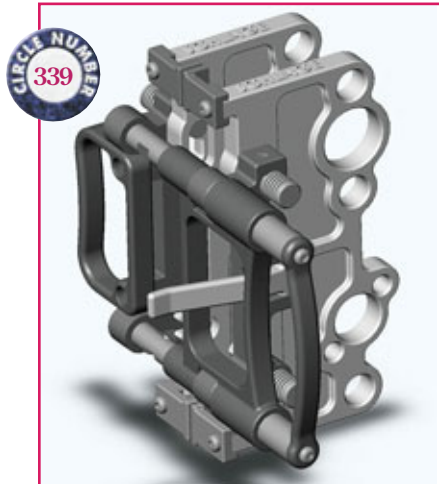
The Door Laser from Keedex is used for core-drilling doors. The use of a Laser Sight assures accurate drilling. The Door Laser is also affordably priced.



### LockTools

Locktools presents the installation jig series. Their three jig series, the Wild Jig.1, Wild Jig.2, and TimeSaver Jig are designed by a locksmith for locksmiths. Set up time is drastically reduced, the jigs are accurate, rugged, and come with limited lifetime guarantees. The Wild Jig.1 quickly and smoothly bores holes for commercial and residential cylinder locks and deadbolts.

The Wild Jig.2 mortise jig's patented grip-lip centering system assures limited set-up time and accurate cutting. A quick-change, interchangeable plate

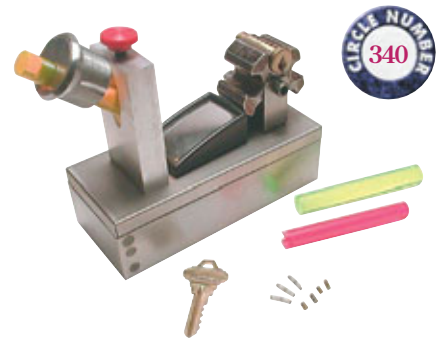


mechanism allows for fast, efficient changeover for different mortise lock installations.

The TimeSaver Jig accurately drills holes for all anchor plate lugs, through-bolts, and electric wire ports for various types of commercial door hardware. All jigs are held on the door using a patented spring-loaded holder.

### HPC Illuminated Pin Station

The Illuminated Pin Station is a multi-function cylinder pinning



aid. The base opens to reveal a storage area for tools. The center hole secures the station to your workbench, and allows it to

We're back.

We're better.



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Lockcraft shakes up the market:

Our expanded line-up of priced-right automotive locks, keys and service tools opens up better opportunities for you. And our 5-day/90% order fill includes OEM quality replacements for Daimler Chrysler, Ford, GM, Honda, Nissan, Toyota and many more.



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**LOCKCRAFT**  
TM

pivot for easy access to both sides of the station. On one side is a rotating plug holder to hold the five most common sizes of cylinder plugs:

- .404" / 10.26mm
- .504" / 12.80mm
- .508" / 12.90mm
- .512" / 13.00mm
- .556" / 14.12mm

On the other side is an angled holder for plug followers. This eliminates the need to hold the cylinder housing while loading the springs and pins. The illumination comes from the three followers included in the station, in diameters of:

- .395"/10mm
- .495"/12.6mm
- .550"/14mm

These unique followers are made of a bright translucent plastic that illuminates the interior of the cylinder housing. In the center of the workstation is an angled mirror that reflects the ambient light in the room into the followers, providing exceptional light in the inside of the cylinder housing. Having more light in the cylinder housing makes loading the springs and top pins much easier.

### **Multi-Tool by Lockmantools**

The locksmith Multi-Tool by Lockmantools has over 25 specific locksmith functions. Designed by a locksmith for locksmiths, the tool can service a variety of different hardware for Schlage, Baldwin, Corbin/Ruswin, Lori, Adams Rite,



Master padlocks, Medeco, Arrow, Jackson crossbars and many others, the company says.

The tool is made of bead blasted stainless steel for extra durability and folds up to 4 inches closed. A ballistic cloth carrying case clips onto the user's belt for fast access and convenience.

### **Major Manufacturing The Pit Bull**

Major Manufacturing has the solution for your lock installations in steel doors. The Pit Bull tool is used to form a rectangular pocket in the edge of a hollow metal door. Application of



the tool is almost effortless - simply drill the latch and cross bore holes and install the Pit Bull. Using a few turns with a wrench will squeeze an indentation into the door's edge - the result is a pocket that will accept both 1" and 1-1/8" wide by 2-1/4" tall latches.

### **CapSaver Plus Press from A1 Security**

True to its recognition of innovation, A1 manufactures a truly innovate and time-saving machine for capping I/C cores (SFIC) Seating up to 7 individual caps is time consuming and costly for higher volume shops. With A1's CapSaver Press (#CAP5) the time required to seat 7 caps is completely eliminated. According to A1, this equipment is used by the vast majority of I/C Core manufacturers.



The press uses strips to form the caps as it seats them. Strips are more economical than caps, but the real benefit is realized in your cost of labor.

### **Gil-Ray Tools Online**

Gil-Ray Tools has been sharpening and manufacturing new OEM replacement cutters for over 58 years. They feature many of their cutters on their Internet website. Recent new cutter wheels added to their stock include longer lasting M3 type 2 high speed steel cutters for Bollini, Taurus, Bravo 2, and Rytan key machines. These cutters offer longer lasting durability when compared to the stock cutters that come with the new machine.



**Continued on page 34**



**ABUS****ADAMS RITE****ARROW****CompX CHICAGO****Corbin RUSSWIN****DOR-O-MATIC****FALCON****CompX FORT****GLYNN-JOHNSON****IVES****JET****KABA ilco****KABA ACCESS CONTROLS****KEEPER****KSP****Kwikset****LAB****LCN****LOCKNETICS****Master Lock****MONARCH Exit Devices & Door Hardware****CompX NATIONAL****Norton****REXSON****RCI RUTHERFORD CONTROLS****SARGENT SCHLAGE. SECURITRON****SELECT PRODUCTS LIMITED****GE Interlogix Supra****CompX TIMBERLINE****VON DUPRIN. Yale**

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IDN reserves the right to withhold premiums for delinquent, past due accounts. IDN also reserves the right to substitute premium products of equal value.

## Software Products

### InstaCode 2004

A good code program is a must for any professional locksmith, and InstaCode is a high quality easy to use program. If you are still using code books or an outdated code package, why not move up to the most comprehensive and easy to use code program available.



A master key wizard has been added to create your key systems in just minutes then produce comprehensive key cutting and lock pinning charts. You can even download your keys to an electronic machine then save the codes for future reference.

A new graphical layout displaying space and depth information, flat widths, card number and other valuable key cutting information.

Identify and key number now without knowing the manufacturer's name.

We have added 100's more code series, new car opening instructions, more makes and models of vehicles, new transponder key information and programming techniques (optional extra), the full ASP catalogue, with most models featuring colour pictures of the ASP locks and service components.

InstaCode 2004 has been redesigned to make it even easier to use, with the entire user interface being revamped and simplified. With InstaCode 2004's additional code series the total is now over 5000 indirect code series, making a total of over 2 billion direct and indirect codes!

Lastly, InstaCode 2004 also features an interactive web update feature, which periodically checks this website for updates, ensuring you always have access to the very latest version and newest code series available for the forthcoming year.

Check out some of the new features below:

InstaCode 2004, the latest release of InstaCode, includes nearly 6000 code series, and has a vastly increased database of key blank cross-references. The program has also been improved to provide better performance, reducing search times.

The program has been improved so much, we are more confident than ever that you will find this to be "The World's BEST Code program", and that the program is without compromise in terms of quality, ease of use, speed and quantity of information contained within.

### Kaba Ilco SDD Software Update



Kaba Ilco has released a new SDD Software update ver 10.01. This is the latest internal software update for the SDD diagnostic tool. The SDD Software update includes new software for programming keys for 2003 & 2004 Chrysler products. Also included within the update is new software for programming 4 cylinder and ULEV (Ultra Low Emissions Vehicles) Honda Accord vehicles.

All registered SDD owners will receive this update free of charge. For information concerning this free update please contact Ilco's Customer Service Department or Ilco's Technical Assistance Department. Packaging - The update is packaged one per envelope and is serial number specific.

## Keys & Key Accessories

### KEY-BAK

When asked for the secret of his success, a famous American industrialist of the 1940's declared, "Find a need and fill it." Among those who heeded Henry J. Kaiser's advice was a California railroad man, Russ Lummis, founder of their company. More than fifty years ago, he saw a need for brakemen and switchmen to have a better, safer, and more convenient way to handle their keys. The dangling key chains they wore sometimes caught on moving trains. Lummis filled that need by inventing KEY-BAK®. It was an instant success, first in the railroad industry and then in other industries, wherever keys were part of the job.



Today they continue to fill the need by introducing their new Counter Display that feature 7 of their best selling items. Each fully stocked Counter Display comes with 6 of each item and includes a handsome header card.

### Klassy Keys Unveils Five New Key Designs

Klassy Keys has introduced five new designs for the American Classic Collection. The

Continued on page 36



For years locksmiths have begged for comprehensive service manuals on motorcycles, and they are finally here! Covering a wide range of service procedures, you'll know everything a locksmith needs to know about each cycle. Plus, you'll get step by step photographs and instructions.



# The National Locksmith®

# Guide To Motorcycles

## Volumes 1, 2, 3 & 4

by John Blankenship

### Volume 1 covers...

Key information • Progression Charts • **BMW** 1997 R1100R • **Harley-Davidson** 1938 Knucklehead, 1970 Sportster, 1980 Sportster, 1984 Wide Glide, 1994+ Tubular Ignition Lock • **Honda** 1968 Mini Trail 50, 1970 Trail 90, 1971 CB750, 1978 CB750, 1978 Hawk, 1981 CB900, 1982 Ascot, 1983 Shadow, 1984 Nighthawk, 1985 Rebel, 1990 Gold Wing, 1996 Nighthawk 750, 1996 VFR750 • **Kawasaki** 1980 LTD250, 1985 Ninja 600, 1993 KLX650 Ignition Lock, 1994 Ninja Gas Cap • **Neiman** Steering Lock • **Suzuki** 1986 Intruder, 1990 Katana 600, 1991 GSXR1100 Ignition Lock, 1998 Katana 600, 1999 TL1000R • **Triumph** 1995 Tiger, 1999 Legend • **Yamaha** 1980 650 Twin, 1987 FZR1000 Ignition Lock, 1987 Virago, 1992 Yamaha/Polaris 4-Wheeler Ignition Lock, 1998 V Star Classic, 1998 YZF600R

### Volume 2 covers...

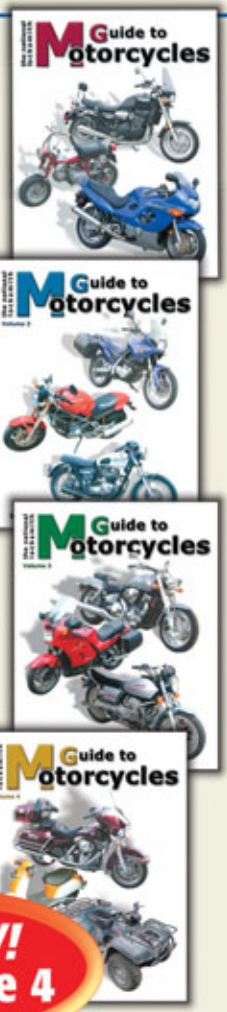
Key information • Progression Charts • **BMW** 1976 R90/6, 1989 K100RS, 1995+ Ignition Lock, 1999 F650, Luggage using Y61 • **Buell** 2000 Blast • **Ducati** 1993 Monster • **Harley-Davidson** 1999 Road King Police, 1999 Sportster • **Honda** 1975 CB550 Ignition Lock, 1980 CB400 Ignition Lock, 1983 CB650 Ignition Lock, 1985 Aero Ignition Lock, 1995 Gold Wing Luggage, 1987 250X 4-Wheeler, 1990 NS50, 1992 Shadow, 1994 CB250, 1997 Shadow, 1998 CBR1100XX, 1999 CBR600F4, 1999 CBRX1100XX, 1999 Shadow, 2000 CBR600F4, LIPO 5-cut Ignition Lock, LIPO 8-cut Ignition Lock, • **Kawasaki** 7-cut Code Information, 1980 LTD250 Ignition Lock, 1983 GPZ Ignition Lock, 1986 ZX600R Gas Cap, 1986 ZX600R Ignition Lock, 1987 EX500 Ignition Lock, 1989 EX500, 1991 ZX-6, New Blank • **Suzuki** 1968 T500, 1981 GS550 Ignition Lock, 1986 GSXR750RG Gas Cap, SM-2 Ignition Lock, SM-4 Ignition Lock • **Triumph** 1970 Bonneville, 1973 Tiger, • **Yamaha** 1980 XS650, 1982 Seca 400, 1982 XV920 Ignition Lock, 1984 FJ600, 1986 FJ1200 Gas Cap, 1989 Riva Jog Ignition Lock, 1990 XT350, 1993 Seca II, 1996 Royal Star, Cruiser Ignition Lock • **Zadi** Q637 Ignition Lock, Q933 Ignition Lock

### Volume 3 covers...

Key information • Progression Charts • **BMW** 1999 R1100GS, Luggage using X59 • **Honda** 1975 CB500T Ignition Lock, 1980 CB750 Custom Ignition Lock, 1980 CM400T, 1983 CB450 Nighthawk Ignition Lock, 1985 Big Red, 1987 Elite 250, 1987 Elite 250, 1997 CBR600F3, 1999 Shadow ACE Deluxe, 2001 CBR1100XX, 2001 Gold Wing, 2001 XR100, 2002 VTX1800, Cruiser Ignition Lock • **Kawasaki** 1979+ Ignition Lock, 1982 KZ1000 Ignition Lock, 1986 ZL600 Ignition Lock, 1992 ZX6 Seat Lock, 1995 KLR250 Ignition Lock, 1998 ZX9R Ninja, 2000 Concours, 2001 250R Ninja, 2001 500R Ninja, 2001 KLR650, 2001 ZX12R Ninja, KM-5 Ignition Lock • **Moto Guzzi** 1979 V 50 II • **Suzuki** 1979 GS750 Ignition Lock, 1985 Ignition Lock, 1986 GSXR750, 1990 GSXR750, 1997 DR650, 1999 Savage, 2001 GSXR750, SM-5 Ignition Lock • **Yamaha** 1972 Enduro 100, 1977 Enduro 400, 1978 XS750 Triple, 1982 XZ550 Vision Ignition Lock, 1984 QT, 1989 V Max, 1992 TW200 Ignition Lock, 2002 BearTracker

### Volume 4 covers...

Master Index • Key information • Progression Charts • Corrections & Updates • **Aprilia** 2000 Pegaso, Luggage • **Ducati** 1991-2002 Ignition Lock, 1997 Monster, 2001+ Transponder Models, 2002 748 • **Givi** Luggage • **Harley-Davidson** 2002 Ultra Classic Electra Glide • **Honda** 1978 Trail 90, 1981 CB750 Gas Lock, 1984 V65 Sabre, 1986 VF1000R Interceptor, 1988 GT650 Hawk, 2001 VTR100F Super Hawk, 2002+ CBR954/1000 Key Blank, 2002 Metropolitan, 2002 Reflex, Honda 22222-00000 Codes, Honda H Codes, Honda T Codes, • **Kawasaki** 1973 Mach III Ignition Lock, 1980 KZ650, 1980 KZ1000-E2 Seat Lock, 1983 KZ750 LTD, 1995 GPZ1100, 2001 ZRX1200R, KM-2 Ignition Lock, KM-4 Ignition Lock • **Malaguti** 2002 Lock Set • **Moto Guzzi** 1973 V7 Sport • **Suzuki** 1999 King Quad, 2001 SV650S, 2002 GSXR600 • **Triumph** 2003 Bonneville T100 • **Yamaha** 1982 Virago, 1993 FZR600, 2002 FZ1, 2002 Vino



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and spacer rings are not supplied with this cabinet. The cabinets use slotted tags and key rail to provide uniform storage of keys. This allows users to quickly determine which keys are out of the cabinet.

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and evenly so a locksmith doesn't have to worry about losing the pattern when a key is put on the wheel for deburring. Andrew's offers point-of-purchase displays for the keys.

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locking exterior door as well. Designed to safeguard keys to private records, valuable papers, medical offices, engineering designs, etc. It leaves the keys in the outer compartment accessible.

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**New Exacta Kits for Ilco MK1 and 029A**



Kaba-Ilco has recently introduced several new code accessory kits for use with their popular Exacta MK1 and 029A code machines. These kits are designed to originate keys for a variety of newer General Motors automotive lock applications. The kits include a printed code book, and all required code attachments for each kit's intended application.

These new products further expand the broad coverage and convenience provided by both code machine models.

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Pontiac Grand Prix, Chevy Malibu, Cadillac SRX.....	029A-GM2 .....	MK1-GM-AE-04
Chevy Colorado, GMC Canyon.....	029A-GM4 .....	MK1-GMTO-AE-04

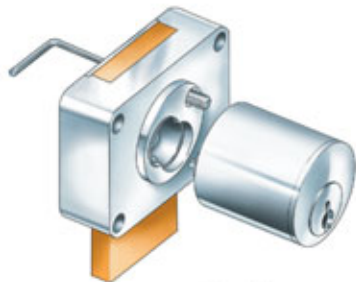


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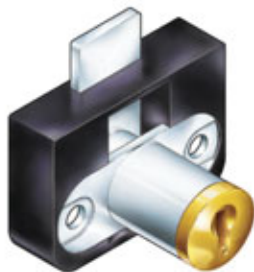


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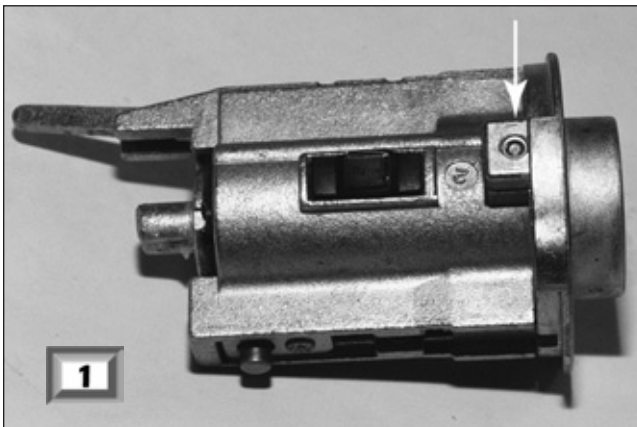
# 2001 Toyota MR2

## part 2

by Michael Hyde & Alan Morgan

**L**ast month we covered the door lock and ignition switch. This month we complete the ignition disassembly, service the trunk lock-out switch and remove the ECU.

## Ignition Disassembly

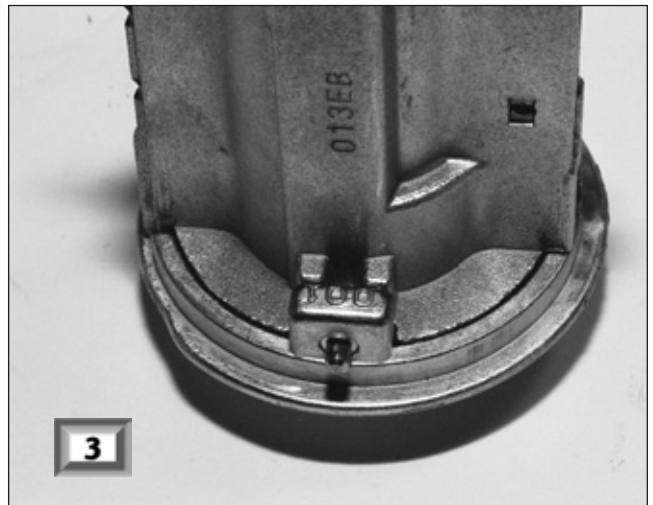


The hardened face cap is held in place with two solid roll pins.

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Start by removing the circular clip at the rear of the ignition plug.

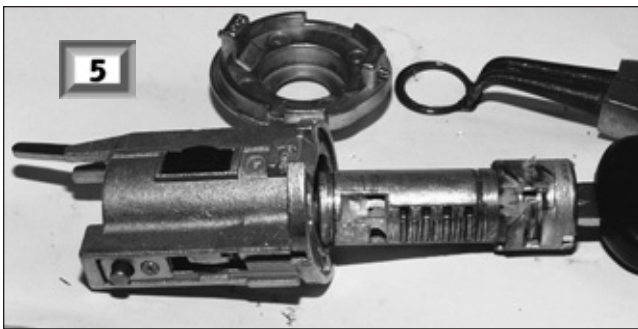


Next remove the roll pin near the "100" stamped on the tab. This can be done easily by inserting a pick and pressing outward on the bottom of the pin.



For the other roll pin an access hole must be drilled into the side of the ignition cylinder body. By drilling perpendicular to the base of the pin you can create an access hole. Now use your pick and push the pin outward from the bottom, similar to the first pin.





Now with the cap removed the plug comes out the front of the lock.

## Trunk Lock-Out Switch Lock

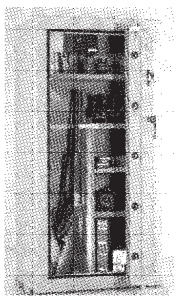


This vehicle does not have a trunk lock. But it does have a Trunk Lock Out Switch Lock.

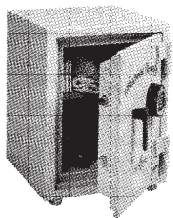


The easiest lock to remove is the trunk lock out release located on the driver's side floor. Start by gently prying upward on the plastic cover.

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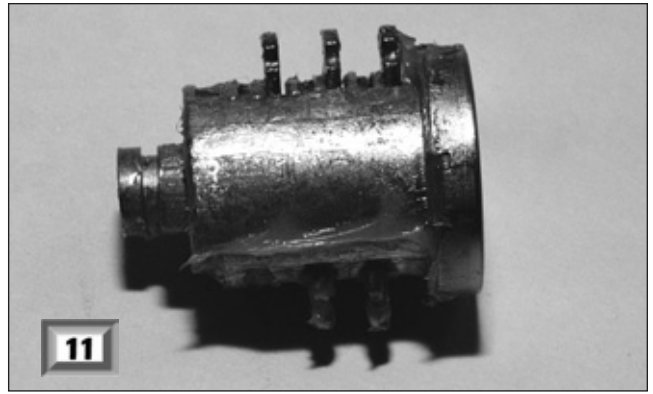
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There are 5 tumblers in this position, numbers 4, 5, 6, 7 and 8. If you wish to make a key using this lock you will need to do a progression, which may be quite lengthy, depending on which software you are using.

## ECU Removal



Next remove the single 10mm bolt that secures the lock to the car floor



***"Remember To Disconnect The Negative Battery Terminal Before Removing The ECU"***

Most Toyota ECU's are found behind the glove box, but in this mid-engine car the ECU is located under the luggage compartment, behind the driver's seat.

Removing the "E" clip that holds on the tailpiece easily disassembles the trunk lock out switch lock.



The plug then comes out through the front of the lock.



Start by removing the bolts of the bottom panels of the luggage compartment.



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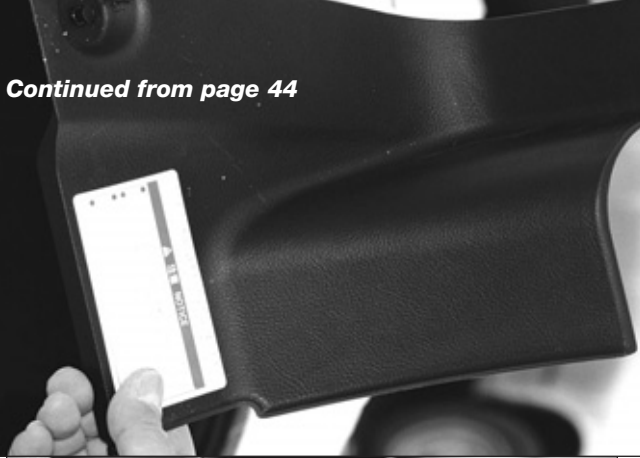
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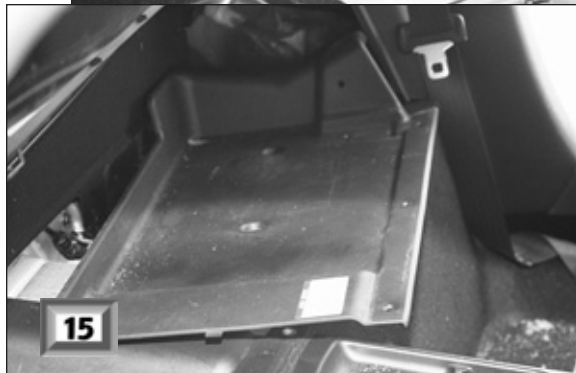
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Continued from page 44



Then remove the luggage compartment side panels.



Now the bottom panels can be removed.

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Here is a picture of the storage compartment without any of the panels. Talk about roomy; Toyota must have had the entire family in mind when they designed this car. **"You Did Disconnect The Battery, Didn't You?"**



The ECU can now be easily removed. Remove the 10mm bolts securing the ECU to the car frame, and then disconnect the four separate connectors that fit into the right side of the ECU. These connectors are all different, so you don't need to worry about mixing them up.



The ECU will say "Engine Control" on the label.





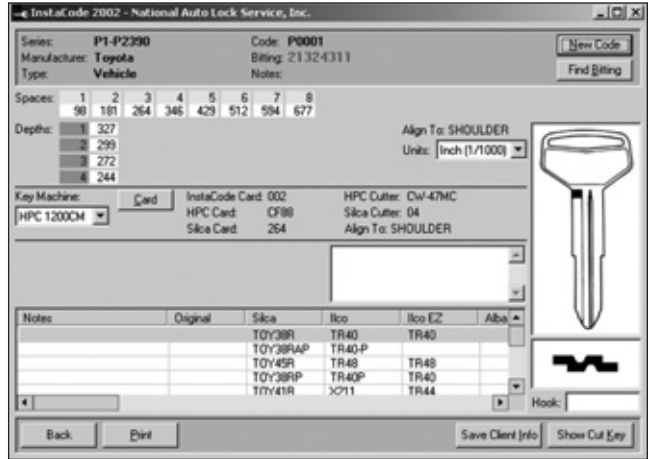
After receiving the reflashed ECU back from National Auto Lock you will need to follow the included instructions. This includes watching the "security light". This light is not labeled but located under the fan control on the dash.

# Making The First Key

**Method 1:** Remove Trunk Lock Out Switch and progression the missing tumblers.

**Method 2:** Remove the passenger side door panel and read code stamped on door cylinder.

**Method 3:** Use the Determinator to determine the cuts in the door locks.



TNL

## Vital Statistics

**Manufacturer:** Toyota  
**Code Series:** P001-2390  
**Key Blank:** Jet: TR40-PHT  
**Number of Cuts:** 8  
**M.A.C.S.:** 2  
**Key Gauged:**  
**Center of First Cut:** .098  
**Cut to Cut Spacings:** .083  
**Cut Depth Increments:** .028

— Framon —

**Cuts Start at:** .098  
**Spacing:** .083  
**Block #:** 5  
**Cutter:** FC8735  
**Depth Increments:** .0277  
**Key Clamping Info:** Use flip up shoulder stop.

— Curtis —

**Cam-Set:** DC-50  
**Carriage:** Toy-50

— HPC 1200CMB —  
**Code Card:** XF88  
**Cutter:** CW-47MC  
**Jaw:** A  
**Gauge From:** Shoulder

— A-1 Pack-A-Punch —  
 PAK-T2

— HPC Punch —

**PCH Card:** PF88L  
**Punch:**  
**Jaw:** A

**Spacings: Depths:**

1 - .098      1 = .327  
 2 - .181      2 = .299  
 3 - .264      3 = .272  
 4 - .346      4 = .244  
 5 - .429  
 6 - .512  
 7 - .594  
 8 - .677

— HPC CodeMax —

**DSD #:** 247  
**Jaw:** A  
**Cutter:** CW-47-MC  
**ITL:** 196  
**UnoCode:** 264  
**Vice Adaptor:** V100 - Std

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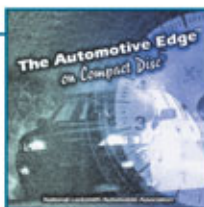
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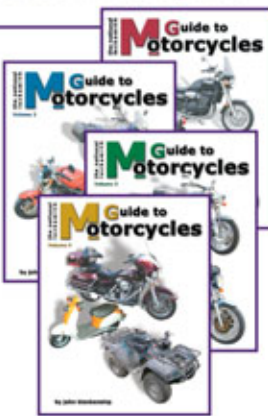
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Item #CK-1 • \$149.00

Key blank cross reference & Code card production.

The first section of the program features a highly comprehensive database of key-blank reference numbers from 34 different manufacturers, 70,000 keys all cross indexed. This section of the program allows you to enter a key-blank reference number from a particular manufacturer and have this instantly converted to be the reference number of the brand of key-blank you use.

Print your own Code Cards with:

- Card Number • Space and Depth measurements in Metric or Imperial • Code series information (where applicable) • Cutter number • Key-blank number • Graphical representation of the key position in the jaw (allows easy positioning, and prevents mistakes) • Space & depth reference marks for needles.

The program comes pre-loaded with well over 700 cards, and also includes the ability to make your own cards should you require. Creates Punch Machine cards too!

Cards & Keys software includes BOTH card making ability and Key Companion software.

If you own InstaCode this module is already included.



## Key Companion

Item #KC-1 • \$99.00

"What is that key-blank?" How often have you wasted time trying to work out a comparison from an old or obsolete key-blank? With Key Companion, you can perform key comparisons in a snap! And also you can just identify a key if you are not sure, as a visual, then Key Companion will make the comparison for you against that selection.

This easy to use program has been designed for any key cutting operation, and allows you to compare key-blank reference numbers from 34 manufacturers in a matter of seconds, on 70,000 blanks.

Key Companion is economical, easy to install and works with all versions of Microsoft Windows. Best of all, the program includes not only 70,000 key-blank cross references, but a picture of the blank and profiles as well so you can make sure your search has produced the correct result!

If you own InstaCode this module is already included.

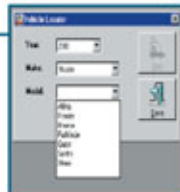


## AutoSmart Advisor

Item #ASA-2002 • \$295.00

New features: Now updated to include the new models. Parts Locator... do reverse searches. Enter a part number and a list of vehicles appears organized by make, model and year. Color photos of parts... the Parts Locator not only shows you all the data, but also a color photo of the part. Service Help... now on selected models full service article with color photos and step by step instructions walk you completely through every job you might do on the car. Additional updates will contain ever more service articles and models.

AutoSmart Advisor™ software tells you every scrap of information about the vehicle, all parts, costs, labor times, calculates your charges automatically, and shows you how to do the job!



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# PRO-LOK®

## Car Opening

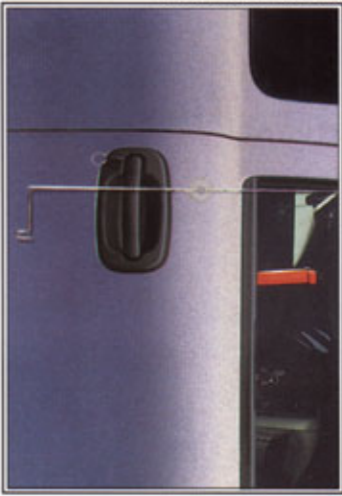
## Exposed

Examples from "The Best Damn Car Opening Manual Period!"



45° counter-clockwise and position the tip of the electric lock-unlock button to unlock the door. (Photo 4)

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**PREFERRED OPENING METHOD**

This model was originally the C/K 1500, 2500, 3500 Pickup. Renamed Silverado in 1999. This model opens the same as the GMC Sierra.

1. Insert a wedge at 7" from the rear edge of the window glass of the passenger door.
2. Insert an Inspection light and identify the 2 angled horizontal rods located directly in front of the latch.
3. Insert the long end of an AO39 "Double Slide Tool" at the extreme rear edge of the window glass, tip facing forward. (Photo 2)
4. Lower the AO39 14" into the door cavity. Rotate the tool 75° counter-clockwise. Lift the tip of the tool under the sharp bend in the upper, more angled horizontal rod. Twist the tool to bind the rod. (Photo 3)
5. Slide the horizontal rod forward to unlock the door.

**ALTERNATE OPENING METHOD**

1. Insert a Pump Wedge at 16" from the front edge of the window glass of the front passenger door. Inflate wedge.
2. Insert an AO34 "MCOT-Narrow Tool" at 14" from the front edge of the window glass, tip facing forward.
3. Lower the AO34 14" into the door cavity and rotate it beneath the bottom edge of the window glass. Deflate wedge.
4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tool
5. Push down on the right side of the electric lock-unlock button to unlock the door.



**Silverado 01**

**YEAR:** 1999 -

**LINKAGE:** HORIZONTAL

**PICK:** CCW

**TOOL:** AO-39

"Double Slide Tool"

**CHEVROLET**



MAZDA

**Miata 02**

YEAR: 1999 – 2000

LINKAGE: VERTICAL

PICK: CW

TOOL: AO-38

"Honda Tool"



**PREFERRED OPENING METHOD**

This model was redesigned in 1999. There was no 1998 production model (gap year).

1. Insert a wedge at 8" from the rear edge of the door frame of the front passenger door.
  2. Insert an inspection light into the door cavity and identify the vertical rod located below the interior door lock button.
  3. Insert the small hook end of an AO38 "Honda Tool" into the door cavity at 4" from the rear edge of the door frame, lip facing forward. (Photo 2)
  4. Lower the AO38 10" into the door cavity. Rotate the tool 45° counter-clockwise and lift the tool to seat the tip of the tool on the vertical rod.
- When you contact the vertical rod, you will see button movement. Twist the tool to bind the rod. (Photo 3)
5. Lift the vertical rod gently to unlock the door.



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**ALTERNATE OPENING METHOD**

1. Insert a Pump Wedge at 5" from the top edge of the window glass of the front passenger door. Inflate wedge.
2. Insert an AO42-SL "Tool Sleeve" at the top edge of the window glass. Insert the "1" end of an AO42 "Long Reach Tool" into the tool sleeve, lip facing down.
3. Reach the AO42 27" into the vehicle interior to the passenger door lock-unlock button. Rotate the tip of the tool to the 3 o'clock position. Seat the tip of the tool in front of the lock-unlock button. (Photo 4)
4. Pull the lock-unlock button rearward to unlock the door.



TOYOTA

**Tercel 03**

YEAR: 1995 – 1998

LINKAGE: VERTICAL

PICK: CCW

TOOL: AO-38

"Honda Tool"



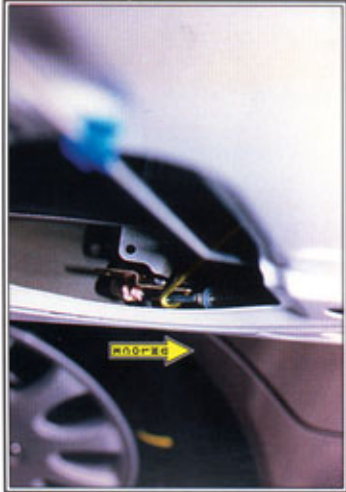
**PREFERRED OPENING METHOD**

This model was redesigned in 1995, discontinued in 1999, replaced by the Echo.

1. Insert a wedge at 10" from the rear edge of the door frame of the front passenger door.
2. Insert an inspection light into the door cavity and identify the plastic tube covered vertical rod located below the interior button head.
3. Insert the small hooked end of an AO38 "Honda Tool" at 6" from the rear edge of the door frame, lip facing forward. (Photo 2)
4. Lower the AO38 11" into the door cavity. Rotate the tool 135° counter-clockwise and lift the tool to position the tip of the tool under the vertical rod at the bottom edge where the tubing stops. (Photo 3)
5. Lift the vertical rod to unlock the door.



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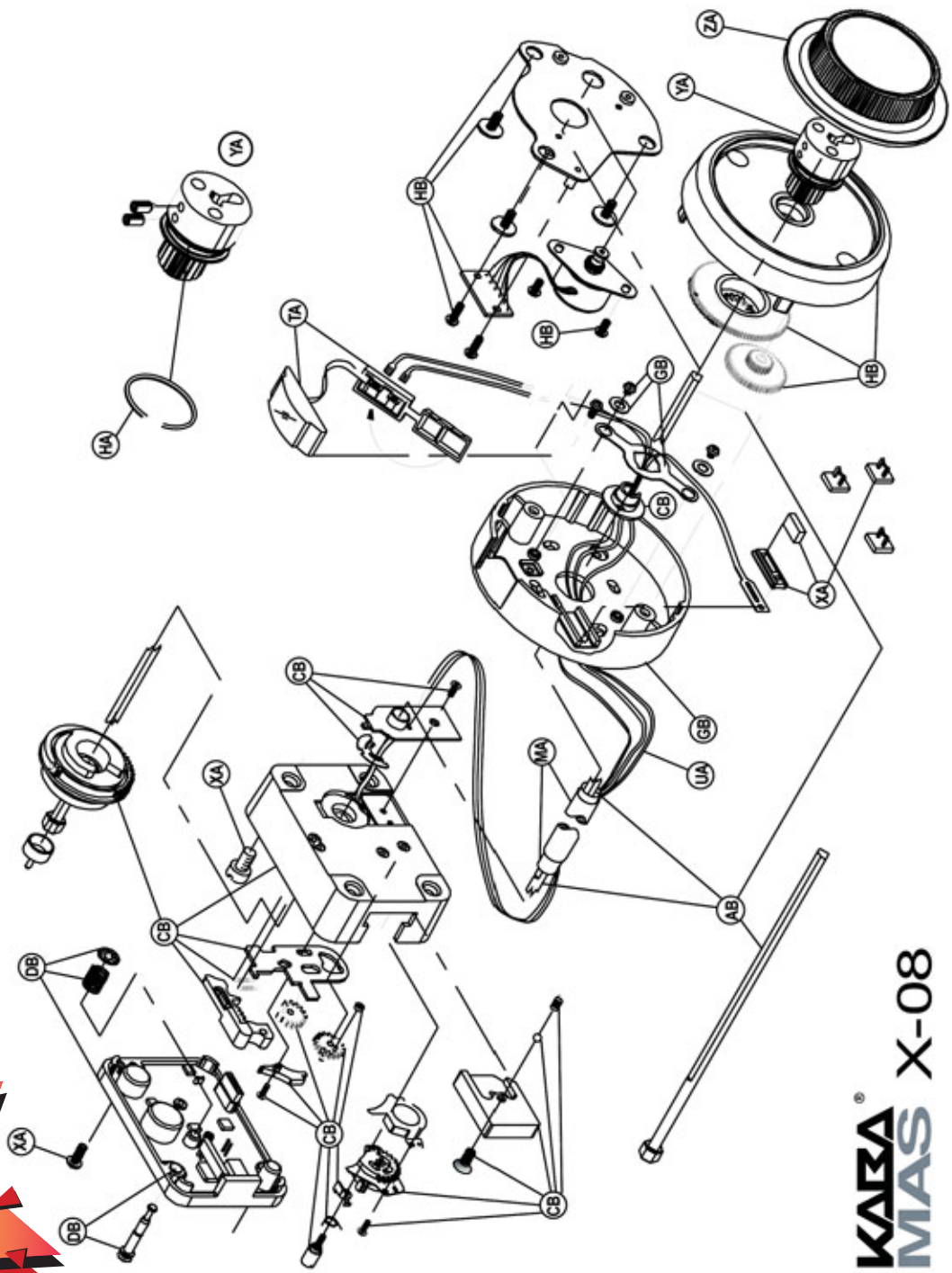


**ALTERNATE OPENING METHOD**

1. Insert a wedge at 12" from the front edge of the door frame of the rear passenger door.
2. Insert an AO37 "MCOT-Button Finger Tool" at 4" from the front edge of the door frame, lip facing forward.
3. Lower the AO37 into the door cavity. Rotate the tool beneath the bottom edge of the window glass. Remove wedge.
4. Lift the tool, gradually working the tip of the tool into the vehicle interior. Rotate the tip 30° counter-clockwise and position the tip of the tool at the upper edge of the detent in the vertical button head. Twist the tool to bind the button head. (Photo 4)
5. Lift the button head slowly to unlock the door.







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**MAS X-08**

**EXPLODED  
VIEW**



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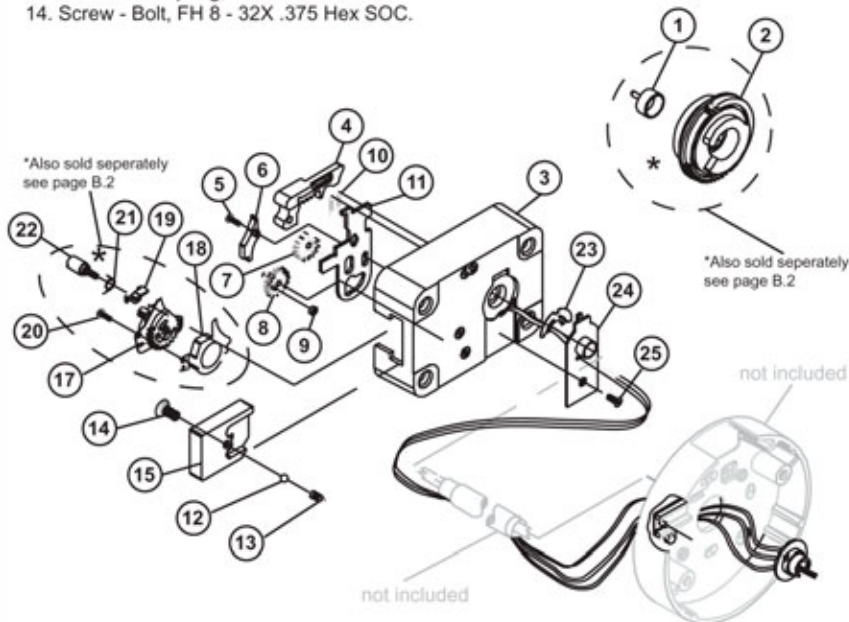
Circle 354 on Rapid Reply

X-08 Lock Case Assembly, Std. Bolt no cover, with loose flush bolt 501012

**CB**

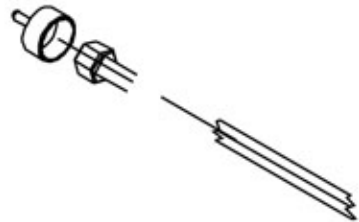
1. Cover Baffle
2. Cam ASM
3. Case Sub ASM
4. Rack Sp. 3T, 32P
5. Screw - PH, 1/62 X .188
6. Slide Retainer
7. Gear SPL, 11T (18T), 32P Rack Drive
8. Gear SPL, 16T, 32P Slide Dr
9. Roller, .146 OD X .063 ID X .064
10. Extension Spring
11. Slide ASM
12. Bolt Detent Ball
13. Bolt Detent Spring, SPL
14. Screw - Bolt, FH 8 - 32X .375 Hex SOC.

15. Std. Bolt
16. Flush Bolt, Loose
- \*17. Motor/Gear Plate ASM
- \*18. Motor/Gear Fence
- \*19. Gear Gaurd Bracket
- \*20. Screw - PH 2 - 56 X .25
- \*21. Torsion Spring
- \*22. Screw - 2 - 56 shoulder special
23. Ground Contact
24. Tube Retainer
25. Screw - FH 2 - 56 X .188 TORX, UC



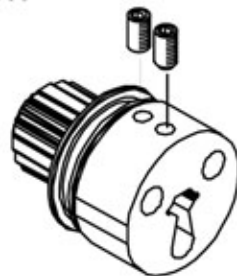
X-08 4.5" Spindle Assembly 501009  
Spindle ASM, W-THK 4.5  
Cover Baffle

**AB**



X-08 Hub Assembly 504060

**YA**



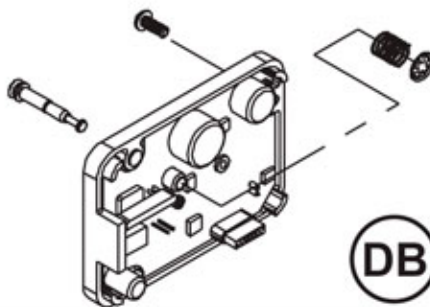
X-08 LCD Assembly 507070

**TA**



X-08 Back Cover Assembly 501003

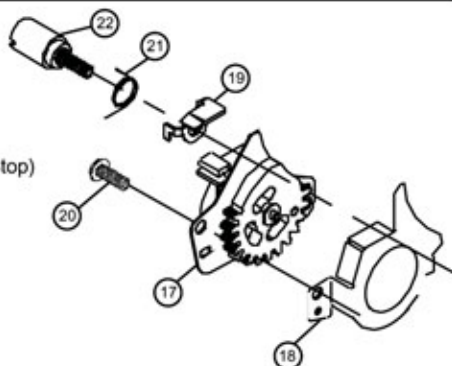
- Cover ASM, X-08  
Cover Lock Pin  
Retainer Ring, E. Type, 5/32 Dia. Shaft  
Special Compression Spring  
Screw - PH 6-32 X 5/16



**DB**

X-08 Motor Kit 507072

- Gear/Motor Plate ASM  
Motor/Gear Fence  
Gear Gaurd Bracket  
Screw - 2 -56 Shoulder, Special (Gear Stop)  
Torsion Spring  
Screw - PH 2 -56 X .25



X-08 Drive Cam Assembly 501007



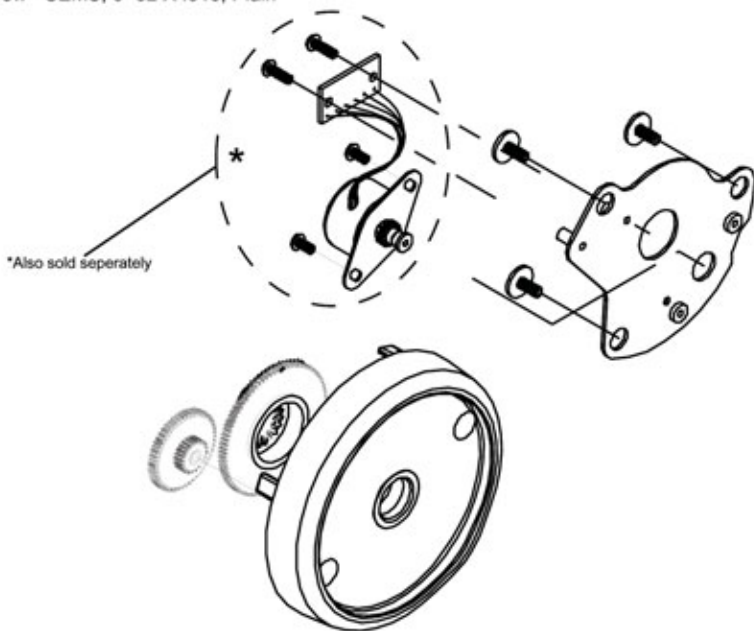
**KABA**<sup>®</sup>  
**MAS** X-08



X-08 Dial Ring Cover Assembly 501006

Dial Ring Cover ASM  
Screw - SEMS, 6 -32 X .313, Plain

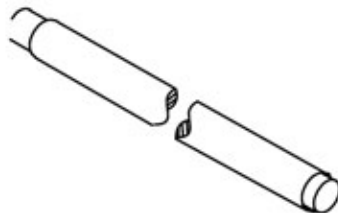
HB



X-08 Tube Kit 104017

Inner Tube 4.5  
Outer Tube 4.5

MA



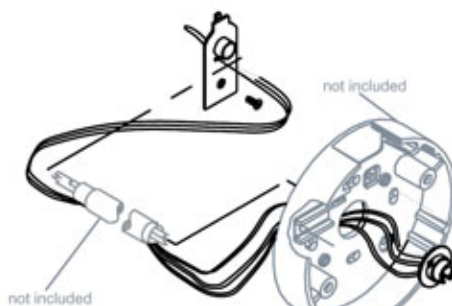
X-08 Dial 504061

ZA

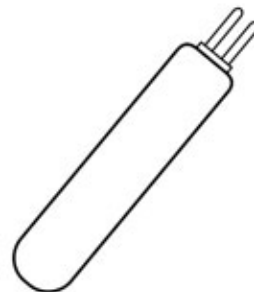


X-08 Cable Assembly 507071

Cable ASM, Flex Wall Thk. 4.5  
Ground Contact  
Tube Retainer  
Screw - FH 2-56 X .188, TORX, UC



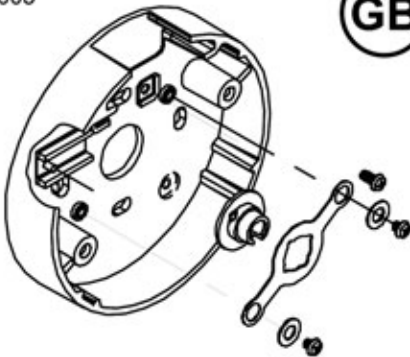
X-08 Change Key 107061



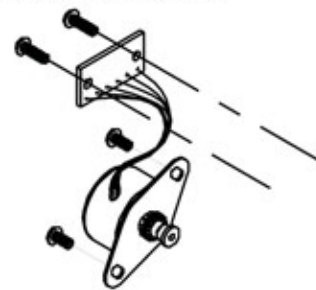
X-08 Dial Ring Assembly (no LCD) 501005

Dial Ring  
Spindle Tube Retainer  
Spindle Tube Holder  
Screw - BH, 4-40 X .153, Comb. Drive  
Washer, SPL. Flat, .185 ID X .360 OD

GB



X-08 Generator 501018



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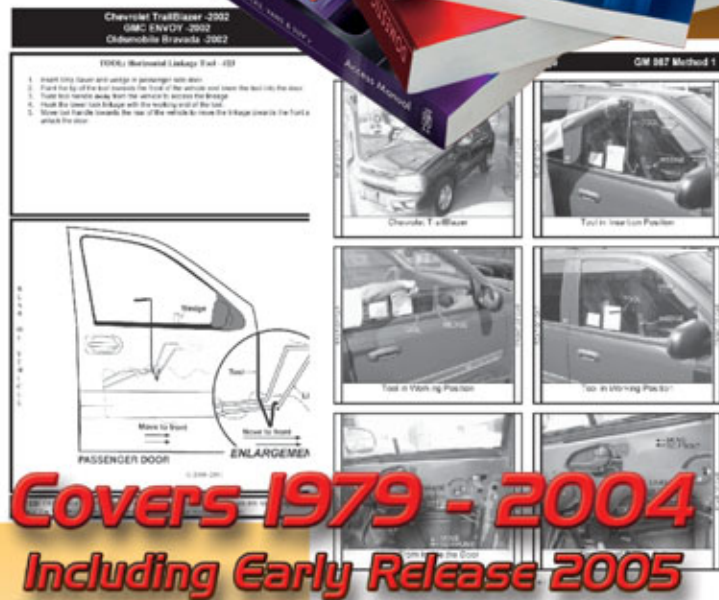
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A couple of years ago, in a meeting at HPC, a decision was made to build the best code machine in the industry. The room was full of creative people, engineers, draftsman, mechanical and computer experts, some with over twenty years of experience in the industry. Everyone had an opinion on what the machine should be able to do. But, how do you determine what "The Best" really means? So the question was taken to the street. Locksmiths were asked.

Locksmiths were telephoned, talked to at tradeshow, and were gathered together in focus groups. All this to determine

1. The HPC Blue SHARK™.



what locksmiths wanted and needed in the ultimate computerized code machine.

This journey led to the development of the Blue SHARK™ (see photograph 1).

The number one necessity for all the locksmiths was accuracy. Everyone agreed that the machine had to be accurate, but it was taken a step further. The user needed to be able to calibrate and fine-tune their machine to .0005". The Blue SHARK™ has a self-calibration system that electronically determines the distance between the jaw and the cutter and confirms and/or corrects depths, shoulder spacing, tip spacing, and even tip-to-bow measurements. The Blue SHARK™ also gives the user the ability to override the self-calibration results and make DSD specific or overall

machine adjustments. These features allow the operator to easily set an individual machine to their exact requirements.

After accuracy, it was unanimous that the Blue SHARK™ had to be easy to use. Too many times complex machines have confusing controls, multiple buttons that have to be pressed in the right sequence, and long lists of alpha-numeric codes that need to be entered in order to do the simplest of tasks. What good would a multi-functioned machine be, if you had to continuously refer back to the manual? The Blue SHARK™ had to be the easiest code machine to operate. Adding a touch screen with a graphical user interface solved this problem. For the first time ever, true advanced computer controls were added to a key machine. A graphic-intensive touch screen allows users to clearly, quickly, and easily jump from one screen to another and find everything they need.

The Blue SHARK™ is loaded with depth and space information

THE  
EVOLUTION  
OF THE

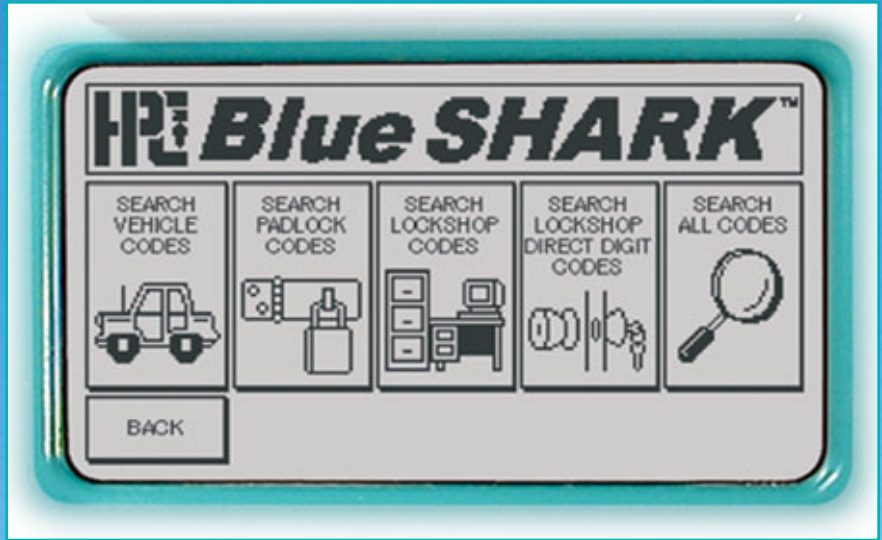
Blue SHARK™





▲ **2. The easy to use touch screen interface.**

for over 800 manufacturer lock specifications that you can easily search through by name or HPC DSD (Depth & Space Data) number. On the opening screen there are shortcut buttons that allow the user to get cutting information on specific keys fast. These are called "presets", where the user presets their top-three most popular keys, so with a simple click of the button they are ready to start entering a bitting. This feature was at the top of many locksmiths' wish list. There is



▲ **3. The code options.**

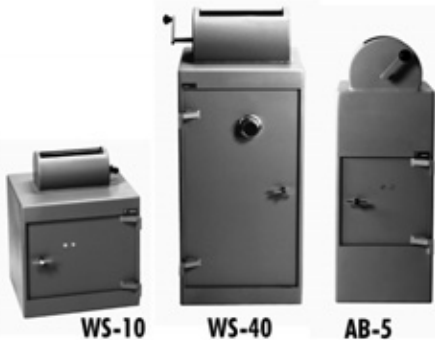
also another button that displays the last key that was cut. This allows you to jump right back into the last job you were working on (see photograph 2).

"The ultimate computerized code machine should have codes inside," was another recurring statement from the locksmith

industry. But not just automotive codes, all codes needed to be readily accessible. So the entire CodeSource® database of cuttable keys was added, broken down into four sections; Vehicle, Padlock, Lockshop, and Lockshop Direct Digit codes. A bitting can be found when searching by code, manufacturer,



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WS-10

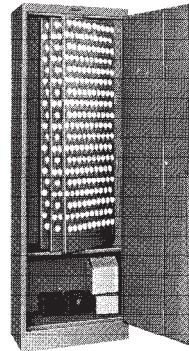
WS-40

AB-5

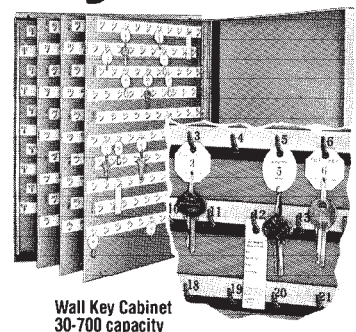
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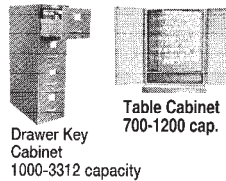


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 Drawer Key Cabinet  
 1000-3312 capacity



Badge Cabinet To  
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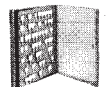
Portable Case  
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Mini-Wall  
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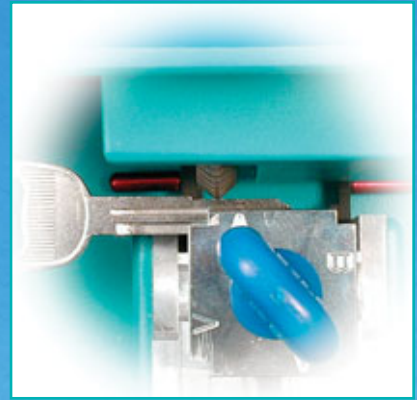




▲ 4. The update card.



▲ 5. The 4-way jaws and popular keys.



▲ 6. Electronic touch-off.



▲ 7. The added convenience and safety features.



◀ 8. The help file.

or key blank. Again, the idea was taken a little further and a key blank cross-reference was added to help the user do their job even faster (see *photograph 3*).

By adding all of these features into the machine, the locksmiths next concern was answered; they wanted a stand-alone machine, a computerized code machine that did not have to be hooked up to a computer. But, what about updating? What happens when more codes and new features become available? Everyone wanted a machine that could be updated easily with or without the use of a computer. So two different ways to update the Blue SHARK™ were created. One way is via CD with a Windows® based PC. The other is a computer-free method using a multi-media card inserted into the back of the Blue SHARK™. Simply insert the update card (see *photograph 4*) press the update button on the

screen and the Blue SHARK™ takes care of the rest.

Along with making the Blue SHARK™ easy and fun to use, many other great features were added that allow it to cut a wide variety of different keys. The first of these features was a newly developed 4-way jaw that mimics HPC's time-tested Blitz® 2-way jaw with the addition of two more specially designed sides. The Blue SHARK™ Cut Screen clearly shows the user which side of the jaw to use based on the key they are about to cut. With this new jaw and the electronic touch-off fea-

ture, cutting double-sided keys accurately becomes extremely easy to do. The electronic touch-off system momentarily determines the position of the key before it starts cutting so you get accurate cuts time after time.

The Blue SHARK™ offers 5 different cut styles. The Plunge Cut is the default setting for the Blue SHARK™. This is a standard cut that plunges the blank straight into and out of the cutter. The Contour Cut eliminates the peaks between cuts while retaining the manufacturer's specified angles.



The Smooth Cut glides over the blade leaving all cut roots intact and creating new angles to make the smoothest key possible. The Contour Barb and Smooth Barb Cuts leave the tip peaks intact to aid in key retention. Lastly the Blue SHARK™ can automatically make high-security angle cuts, and with adapters can even cut Tibbe and standard tubular blanks (see photograph 5).

One of the features that separates the Blue SHARK™ from all the rest is custom DSDs is the ability to add in your own custom depth and space data. This feature really takes a giant leap for code machines by giving users the ability to program their own data into the machine. It is ideal for restricted keys that have contract-protected depth and space data. Another request was to have the Blue SHARK™ duplicate keys. Since duplicating is a less accurate method of cutting keys, the Blue SHARK™ did one better.

A precise decoding feature was added. Using the electronic touch-off and the included decoder plate, the Blue SHARK™ can read an existing key, determine if it is worn or not, and give the proper manufacturer depths so you can cut a new factory original instead of duplicating a badly worn key (see photograph 6).


Everyone loved the idea of being able to have such intricate control over the machine, but the fear was that too many people would have access to make changes. So an optional security feature was built in that allows all users to cut keys, but only the password holder to make adjustments.

The Blue SHARK™ was finished with a rightfully deserved futuristic design featuring a flexible light in the cutting area for greater visibility and the new HPC Quick Nut for changing cutters without tools (see photograph 7). A removable safety

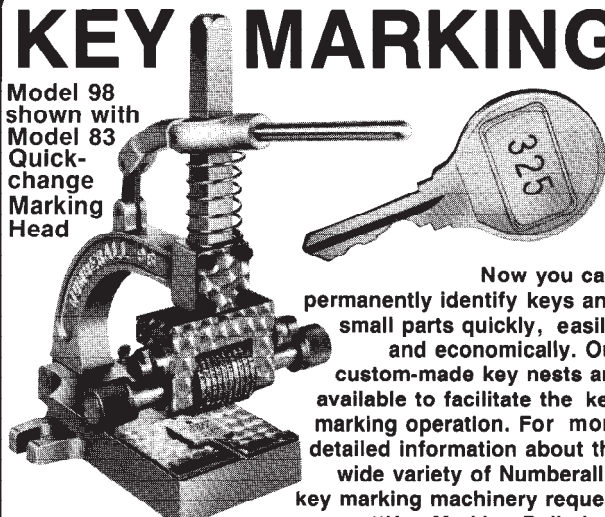
shield and concealed deburring brush were added for safety. And to make sure the machine was extremely easy to use a full on-line help file was added to complete the extensive list of features (see photograph 8).

Finally, registered owners of a Blue SHARK™ can choose to receive a copy of HPC MasterKing® or KeyTrail® as a free gift. Bittings from both of these programs download to the Blue SHARK™ creating a complete key management system.

The Blue SHARK™ was received with rave reviews when it was first introduced over one year ago and more and more locksmiths list the HPC Blue SHARK™ as their go-to machine.

For more information contact: HPC, Inc., Phone: 800-323-3295 or (847) 671-6280; Fax: (847) 671-6343; E Mail: [hpc@hpcworld.com](mailto:hpc@hpcworld.com); Web: [www.hpcworld.com](http://www.hpcworld.com). Circle 353 on Rapid Reply. 



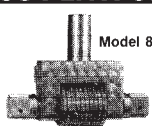
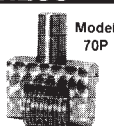
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July 2004 • 61

# ASSA

# CLIQ™



by  
**Sal Dulcamaro,**  
**CML**

**A**SSA is introducing electromechanical lock cylinders that use what they call “CLIQ” technology (see figure

1). Electronic

access control with time restricted access and audit capability will be possible with the mere switching out of the lock cylinder itself. There will be no need to replace the existing (strictly mechanical) door hardware with new electronically enhanced door hardware, because the electronics will be completely contained within the keys and lock cylinder plugs. While electromechanical lock cylinders will not be low priced; you will have dramatically increased flexibility and ultimately lower costs. There won't be the need to modify door preps to accommodate the additional mounting holes generally required by electronically enhanced locksets. If lock requirements change, there won't be the need to patch or cover holes in doors where electronic locks are removed and then re-drill the new doors that will take those locks. Locks

will be able to be converted as quickly as you would otherwise switch out regular mechanical lock cylinders.

## CLIQ Technology

CLIQ technology, as I have heard it, was originally developed and used in Europe using larger sized lock cylinders. The first version (modified) ASSA mortise cylinders that used the CLIQ

technology in the U.S. market were 1-3/8” to fit the electronic components within the confines of the cylinder plug. Those electronic components are being reduced in size to fit in the more conventional sized lock cylinders. CLIQ technology now fits into the 1-1/8” length mortise/rim cylinders, knob/lever cylinders and others.

It is built off of the platform of the ASSA Twin mechanical lock and key system and adds electronic components to increase both the capabilities and security of the lock cylinders. Among its beneficial features are:

- Audit Trail with Date & Time
- Time Zoning
- Ease of Installation
- No Wires
- Can Use Existing Door Prep
- Power Supply is Provided by the Key
  - Data Transfer 64 Bit and Higher
  - Can Be Tied Into Existing Twin Pro Master Key Systems
- Battery Life 2 Years or 20K Openings
- Lifetime on Key Breakage



1. ASSA CLIQ.

**Continued on page 64**



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2. Miniaturization of the various electronic components.



3. The ASSA CLIQ key is mechanically identical to the ASSA Twin Pro.



4. The circular outline by the key's battery.

CLIQ technology is made possible by the miniaturization of the various electronic components (see figure 2). A miniature motor, within the confines of the plug, drives the electromechanical blocking element that locks the side rail. CLIQ technology is only used with ASSA Twin Pro systems. Twin Pro is a variation of ASSA Twin Exclusive or V10. Because the lock cylinder and key are still mostly mechanical, CLIQ electronics and standard mechanical Twin Pro cylinders can be integrated within a single master key system. Master keys can operate all the locks (mechanical and electromechanical) within a single system, while keeping costs down by using mechanical cylinders where time zoning or audit aren't necessary.

The ASSA CLIQ key is mechanically identical to an ASSA Twin key—the ASSA Twin Pro, specifically (see figure 3). As such, it can be used to operate standard mechanical Twin Pro lock cylinders. The side code pattern of the key determines if a current Twin Pro assigned keyway is compatible with CLIQ technology usage. The fourth position cut must

be a 3, 4 or 5 depth. The side milling and sidebar of a CLIQ key and plug will work a bit differently than a strictly mechanical Twin Pro version. If you become a new Twin Pro dealer with the intention of using CLIQ technology, the side code will have already been specified to work within CLIQ requirements.

The electronics in the head (bow) of the CLIQ key allow for operating the CLIQ cylinder. An electronic code is programmed into a memory chip within the bow. The circular outline by the key's battery is visible on the opposite side of the CLIQ key (see figure 4). The electrical contact is on this side of the key blade. Data is transferred from the key to the electronic components within the plug and vice versa. The key bow is not much larger than for a standard mechanical system ASSA key. The battery in the key has a relatively long life, so frequent battery changing will not be too likely. Environmental conditions and frequency of use will affect battery life. There is no battery in the lock. The battery in the key powers the motor in the lock.

Continued on page 66



5. The hand-held programming unit, computer interface cables, software, CLIQ keys and cylinders.



6. Different type CLIQ keys have a different color scheme and look for the key bows.



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The demo unit contains the hand-held programming unit, computer interface cables, software, CLIQ keys and cylinders (see figure 5). Different type CLIQ keys have a different color scheme and look for the key bows. From top to bottom they are: User Key, Distributor Key, Contact Key and Master C-Key (see figure 6). At this point, I will be very general with information, as I have not been able to get my hands on the actual product. I will go into much more technical detail in a future article.

The hand-held programming unit is the interface between the computer where the software resides and CLIQ keys and lock cylinders (see figure 7). This device is used for programming U-Keys (user keys) and CLIQ lock cylinders. Data is sent to, or retrieved from a lock cylinder through one of the data transfer keys. A Contact Key that is wired to the programming unit, can audit a lock cylinder. A C-Key can have data downloaded to it from the computer and then remotely delivered to individual lock cylinders



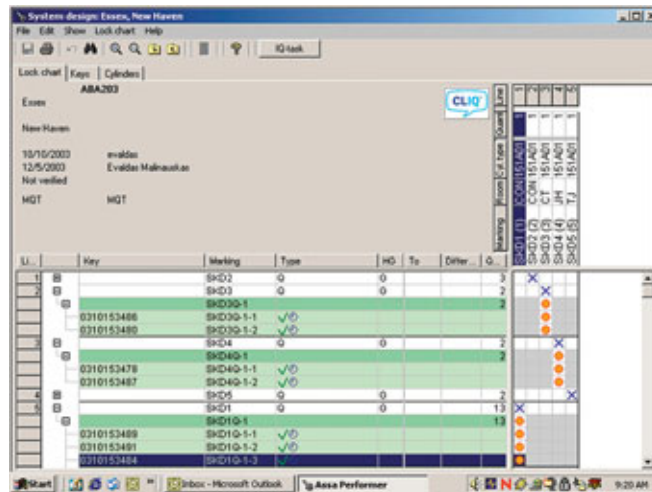
7. The hand-held programming unit.

without the programming unit coming along. Similarly, audit data can be remotely uploaded to a C-Key from a CLIQ cylinder and then retrieved by the computer by inserting the C-Key in the hand-held programming unit.

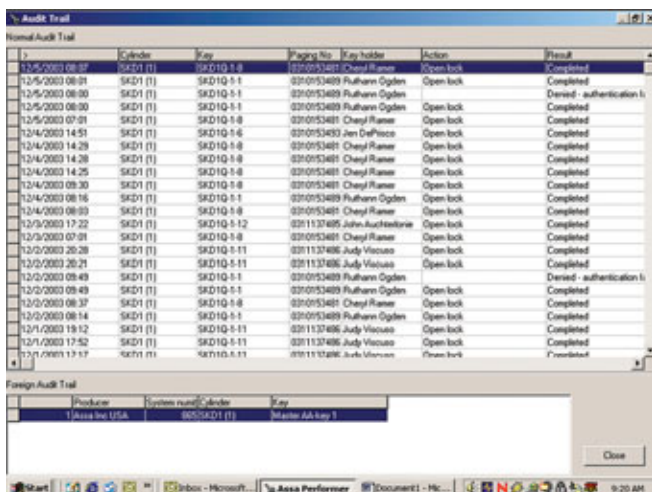
### CLIQ Software

CLIQ software allows you to keep track of all functions of the cylinders and keys. The Lock Chart shows the basic screen with key and cylinder information (see figure 8). The serial numbered keys are on the left and the cylinders are listed on the right. Intersecting squares indicate the status of the keys and cylinders.

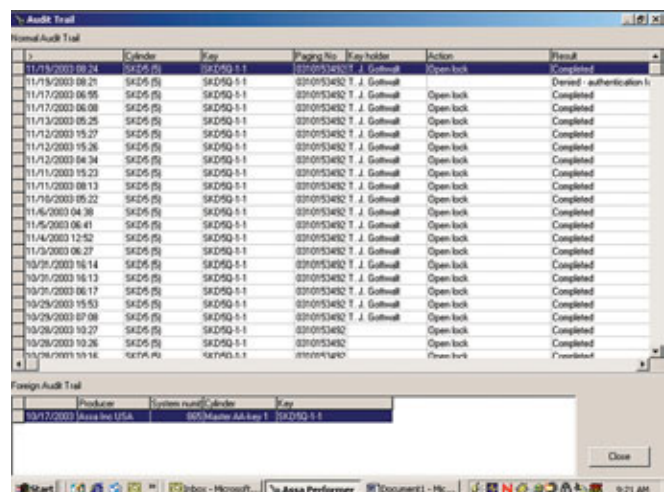
The Cylinder Audit trail chart indicates the dates and times that CLIQ keys were inserted into the cylinders (see figure 9). It also indicates the action the cylinder took with the individual keys. A CLIQ cylinder will retain 1000 audit events and when that number is exceeded it will drop off the oldest event. Each CLIQ cylinder can accept up to 1000 "authorized" individual



8. The Lock Chart.



9. The Cylinder Audit trail chart.



10. The Key Audit chart.



users or user groups. Similarly, the CLIQ cylinder can lock out up to 1000 "unauthorized" users. The cylinder will also keep a "Foreign Audit Trail" which means it will record attempts by CLIQ keys from any other system. The Foreign Audit Trail is limited to 10 events, and drops off the oldest event when it reaches 11.

When a CLIQ key and cylinder interact, data is exchanged and stored. Since the battery is only in the key, so is the clock. While the lock cylinder will decide which keys are authorized, the time zone restrictions for each key reside within the programming of the key. The electronic clock in the key imprints the time and date into the cylinder so it will become a usable audit event. The battery in the key powers the motor in the cylinder for unlocking, if the user is authorized and within the authorized time zone. The Key Audit chart lists the CLIQ cylinders that interacted with a particular CLIQ key (see figure 10). It will indicate the date and time of each event and the action taken by the cylinder that interacted with the key. The key also keeps a Foreign Audit Trail, which will indicate the key being tried in CLIQ cylinders outside the system.

I doubt that I have captured all of the subtleties of CLIQ technology, but I think I have given a bit of the flavor. As with anything electronic, there will likely be various refinements and improvements over time as more memory can be packed into smaller and smaller packages. Numbers of users and audit events are generally limited by data storage capabilities. Customer needs and requirements may also suggest refinements. CLIQ technology is intriguing and I expect to do a follow up future article in much greater detail. **RL**

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# SECURITRON'S

## iMXD

by Mike Cain & Aileen Dingus

**D**elayed exit, instant profit! Why is this so important? According to the retail edition of About.com, "...each year, retailers lose an estimated \$27 billion in merchandise primarily through theft..." Also, the Retail Theft Trends Report states that "discount, department, and supermarket retailers accounted for 41% of the retailers surveyed, but they represented a whopping 88% of the shoplifting cases."

What these statistics don't say is that much of retail theft takes place through under-secured doors, in areas without adequate surveillance. Most of these doors have some sort of panic hardware for immediate egress and positive latching to secure the door from outside entry. The immediate egress is what poses the problem.

Securitron has developed a product specifically aimed at retail loss, although there are other significant applications that will be discussed later. The product is the Integrated Movement Exit Delay system or iMXD. (See *photograph 1.*) While the concept of exit delay is not new, the iMXD makes choosing a system as simple as selecting the voltage.

Exit delay systems secure exit doors electronically and/or mechan-

ically while permitting routine delayed egress from within. In the past many systems were cobbled together using component parts, often from different companies, resulting in installation difficulties and compatibility issues with local and national building codes.

The iMXD system is the next level in electromagnetic exit delay systems, designed to be an all-inclusive tool for loss prevention professionals. If a thief cannot exit unnoticed or unhindered, there is less chance that theft will occur. With or without an addi-

tional alarm system the iMXD will help reduce retail shrinkage, and raise profits.

### Integrated Design

By being fully integrated into one cohesive system, and having a single model number in either 12 or 24 VDC, the flexibility of the iMXD allows the same unit to conform to all local and national building codes out of the box, without ordering special options. The iMXD operates with existing door hardware without any modifications. This makes the iMXD perfect for retrofit applications.

The iMXD system is built around Securitron's energy efficient M62SC Magnalock. (See *photograph 2.*) The M62SC has a holding force of 1,200 lbs, and comes with Securitron's patented Senstat option, which provides a lock status sensing signal which positively indicates that the door

is secure. Senstat is superior to the commonly used door position switch, which indicates only that the door is closed, but not that it is secure. Senstat reports both door position and the energy state of the magnetic lock.

What separates the iMXD from all other electromagnetic based exit



Photograph 1.



Photograph 2.

Continued on page 70



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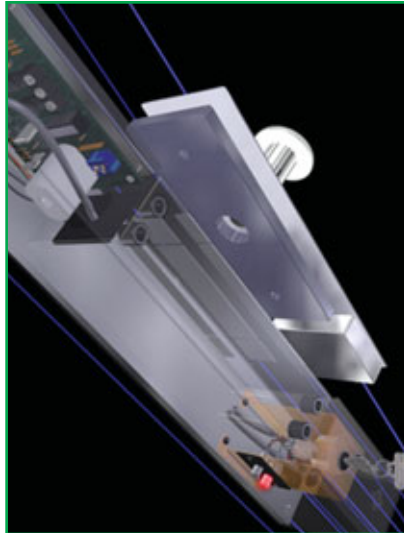


delay systems is the spring-loaded sex bolt which is specifically designed to allow the door to move up to 1" [25mm] (adjustable from 1/8" to 1" [3mm to 25mm]) before going into alarm. (See photograph 3.) When the door is pushed, the spring bolt expands to keep full contact between the strike plate and the M62 Magnalock, keeping the door magnetically locked, while a reverse action returns the door to the latched condition. This is especially handy in areas where code allows a nuisance delay in case of accidental activation. The adjustable gap on the sex bolt, combined with the reverse action plunger virtually eliminates false alarms caused by changes in building pressure or "door rattling" from the outside.

The iMXD also contains all the electronics required for exit delay, including microprocessor, audible alarm, indicator lights and keyswitch for reset and/or bypass. (See photograph 4.) All that needs to be added is the

appropriate Securitron power supply. The iMXD and all of the Securitron boxed power supplies are UL listed.

All of the components of the iMXD are contained in a sturdy, stainless steel housing. (See photograph 5.) This makes the iMXD not only vandal resistant, but also attractive enough to be installed in any retail settings, where inconspicuous security is a bonus.



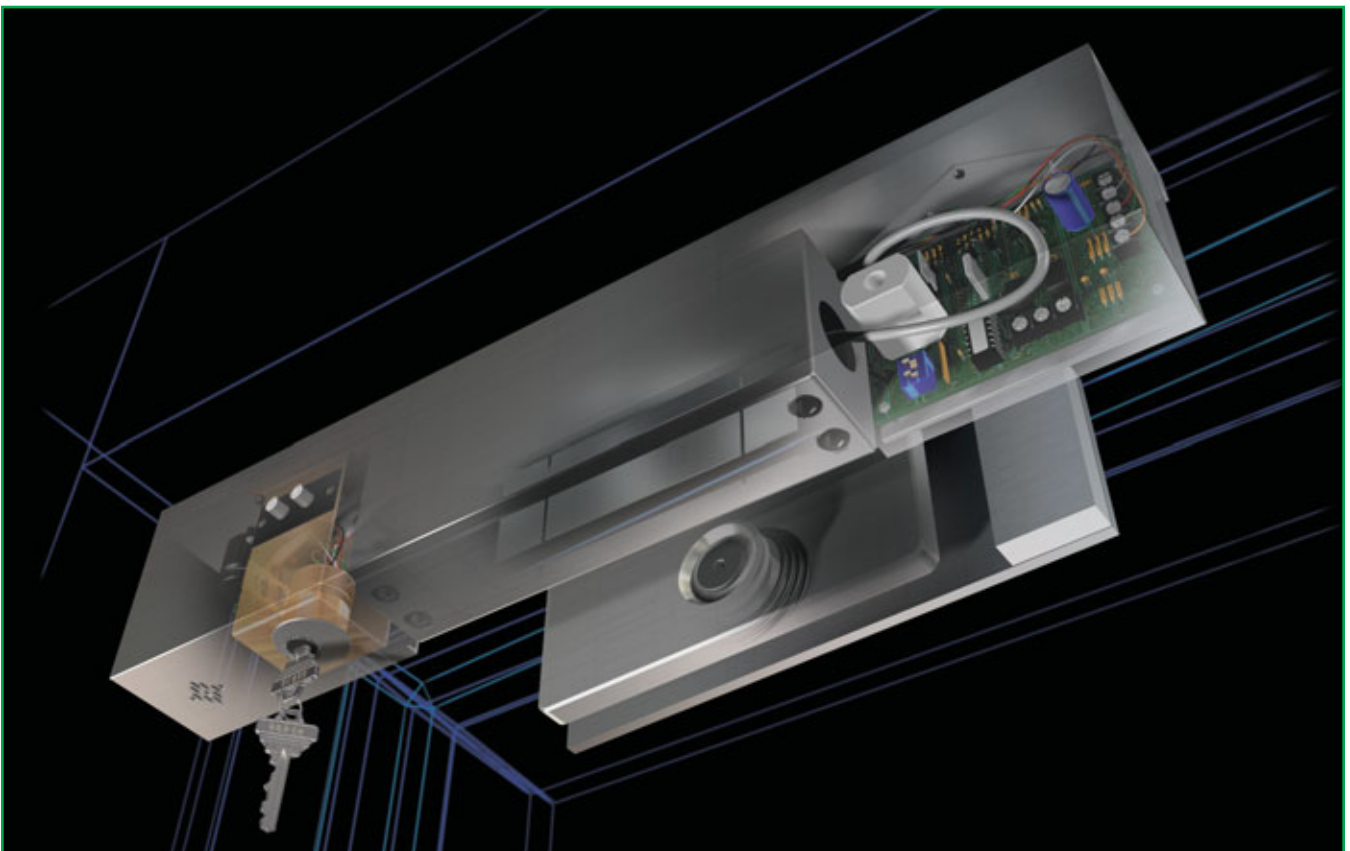
Photograph 3.

Since the iMXD is a fully integrated system, with no obvious initiate switch in an open or closed door position, tampering is eliminated, thus maintaining legal safety requirements.

As an added benefit, the iMXD is completely covered by Securitron's MagnaCare(tm) Lifetime Replacement Warranty. Simply put, MagnaCare is a lifetime replacement warranty for all Securitron branded products. It is valid regardless of the cause of failure, and Securitron will ship the replacement product out overnight at no additional cost to the client.

### When To Choose The iMXD

Exit delay systems are usually used to fight risk of loss by theft. Typical installation sites include retail stores, museums, libraries, computer and business technology centers. Without exit delay protection, a thief can move stolen goods through an alarmed



Photograph 4.





**Photograph 5.**

exit door, escaping before countermeasures can be taken. A door equipped with an iMXD system forces a thief to wait out the alarm period, enduring a 15 or 30 second alarm blast. That is sufficient time for action should the thief decide to wait at the violated door.

Delayed exit isn't just for retail however. Hospitals and nursing homes responsible for patient safety successfully employ exit delay in denying immediate egress to individuals under their supervision. Attempts at unauthorized exit by those suffering Alzheimer's, psychosis or disorientation are easily checked by an exit delay period, canceling a significant liability threat from patient endangerment, and helping ensure patient safety.

Another popular setting for exit delay is airports, government buildings, day-care facilities - or other facilities where pedestrian traffic must be controlled for reasons of public safety and security.

*For more information contact: Securitron Magnalock Corp., 550 Vista Blvd., Sparks, NV 89434. Phone: 800-MAG-LOCK or 775-355-5625; Fax: 775-355-5636; E-Mail: info@securitron.com; Web: www.securitron.com. Circle 354 on Rapid Reply.* **TNL**

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Version  
5.0

# Electronic InfoBase Edition (LSS+)



by  
**Richard Allen  
Dickey**

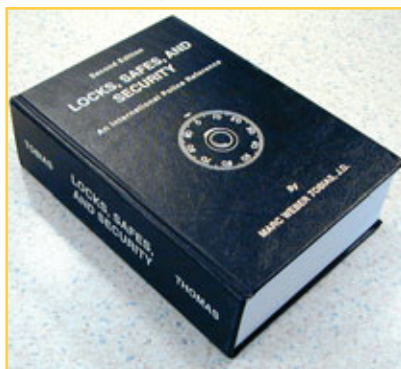
Information is a powerful thing. With it, almost anything is possible. Without it, you will be held back by the limits of your own ability and imagination.

There are many sources of information. You may find a little here or a little over there. Some in this book and some in that book. You could spend a lifetime acquiring information. Then you would have to ask yourself how you would sort through the mass of information to find exactly what you are looking for.

What if someone else found and compiled over a million words of written information for you. Not good enough? Well, let's add approximately 100 hours of audio and video information. Still not interested?

Lets go one step further. What if you could sit in front of your computer and watch someone show you how to impression a lock or decode a masterkey system? No kidding!

Well, Marc Weber Tobias has done just that. He has compiled an information treasure trove in a massive book called Locks,



1. This is where it all started. *Locks, Safes and Security*, published on December 27th 2000, is a 1400 page work of art. It covers every conceivable aspect of physical security. The book has well over a million words and around 550 photos and illustrations.

Safes, and Security (see photograph 1). (See the September 2001 issue of *The National Locksmith*)

Next, he put all of this information in a database to make searching for information quick and easy (see photograph 2). (See the July 2002 issue of *The National Locksmith*)

Now for version 5.0 Marc has added over

100 new audio and video interviews and demonstrations (see photograph 3). There are more than 100 additional photos. He has also added approximately 150 new sections to the book with numerous updates and additions to existing sections.

There is no other collection of information like this anywhere in the world, nor is there likely to be. Who is this guy? Let me give you a brief overview of Marc and talk about some of the controversial information in this book.

Marc Weber Tobias has authored four law enforcement textbooks dealing with criminal law, police communications, and security. Tobias received a



2. Photos in the electronic version are good. The search engine makes it easy to find what you are looking for.



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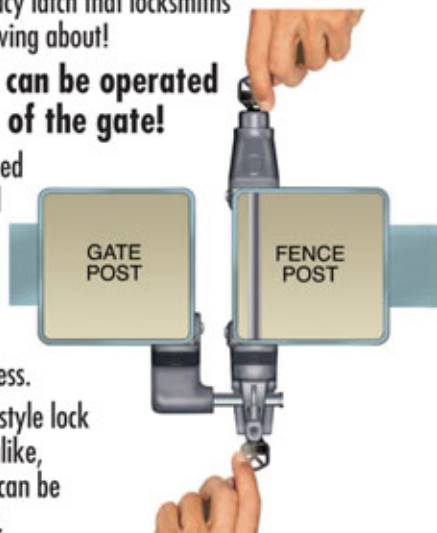
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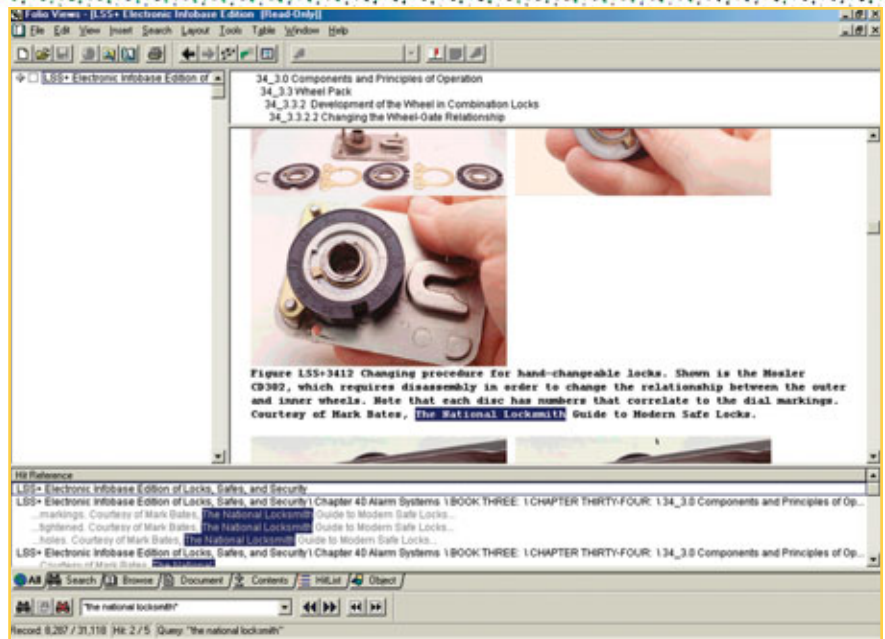


Continued from page 72

Bachelor's Degree in 1970 from the University of Nebraska-Omaha, and a Juris Doctor Degree from Creighton Law School in 1973. He is an attorney in Sioux Falls, South Dakota, with Investigative Law Offices, P.C.

As part of his practice, he routinely conducts technical fraud investigations and consults with corporations and government agencies throughout the world regarding the bypass of locks, analysis of design defects, and security liability issues.

Tobias is also a technical advisor to the Association of Firearms and Tool Marks Examiners (AITE). Tobias has provided technical support and investigative services involving surveillance, covert entry, interrogation, polygraph, and crime scene documentation to many law enforcement agencies throughout the world.



3. The first screen of version 5.0 introduces you to the product.

Now that I have told you a little about who this guy is, I want to bring up one of the most controversial topics that I have heard in many years. A topic that is covered in extreme detail in both text and video information by Marc Weber

Tobias. This is the topic of the masterkey system.

Exactly how secure is a masterkey system and should we even be discussing such a thing? There are those that believe ignorance is bliss. The less it is discussed, the fewer people there will be that know how easy it is to break.

There is also the other extreme that consists of individuals that can see a law suite coming in the future. That law suite will be directed at some well insured locksmith shop that failed to inform a client of the shortfall of the masterkey system. A shortfall that cost the life of someone that was supposedly secured by that masterkey system.

I have paid little attention to the masterkey issue since it popped up a year or two ago. That is until now.

While talking with Marc on the phone, he mentioned that the problem with masterkey systems was covered in his ready to release update. He explained how easy it would be to create a top level master key for an entire facility by anyone with the most basic knowledge of how a lock worked.

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4. Video is viewed much like it would be on a home video player. Here you can see a video file playing at its normal size.

I have to say that it just didn't sink in until I watched the first two minutes of an eight minute video featuring Brian Chan that was included on the update. I couldn't believe that this simple process had never occurred to me.

I immediately watched a 14-minute video featuring Harry Sher on the same topic that walked you through the process step by step (see photographs 4 & 5).

Next I watched another 40-minute video that featured Matt Blaze. He showed in detail how a high school kid with only the most basic understanding of locks could end up with a key that would open any door in the entire school. Is that scary or what?



5. When the video file is enlarged too full screen, it is almost like sitting at the same table with the person giving the demonstration.

Should these topics be discussed in detail or should they be left in the dark? I have my opinion and I am sure you have yours.

The point of this article is that Marc has no problem with covering the tough issues that affect our industry. He has put many years of effort into his work and the quality shows.

If you want to know something about a specific lock, system, tool, process or patent, you will almost definitely find it in the Electronic InfoBase Edition (LSS+) of Locks, Safes and Security.

The 14 CD Electronic InfoBase Edition (LSS+) of Locks, Safes and Security is available from two different sources. HPC Inc. will carry security levels 1 and 2. All level 3 information must be purchased through MBA USA (Mark Bates Associates). The cost will range from around \$350.00 to \$600.00 depending on the security level purchased. If you have purchased the book, you may be eligible for a rebate when you purchase the CD-ROM set!

*If you would like to contact the author, there are several ways you can do it. Marc Weber Tobias welcomes feedback from readers. His e-mail address is [mwtobias@security.org](mailto:mwtobias@security.org) He can be contacted at (605) 334-1155 You can also reach him toll free utilizing Internet telephony or video conferencing through <http://www.security.org>. *



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# CORNER

## BEGINNER'S

### Crossbore Hole Adjusting



by  
Ken Holmlund

As often as not, it seems that when a lock needs to be replaced, the size, or location of the hole in the door is cut wrong (see photo 1). This is particularly true if the door is an older wooden one, but it can, and often does apply to older steel doors as well.

Sometimes both the hole location and size are such that you can adjust the hole to 2-3/4" backset from the residential norm of 2-3/8". I will often do so because it allows for more hand room to turn the knob, and therefore less likelihood of scraping a hand when opening the door. It is a small thing, but it may make a difference to your customer.

The question of how to go about moving or enlarging the hole has several answers, but there are also several factors to consider before doing so.



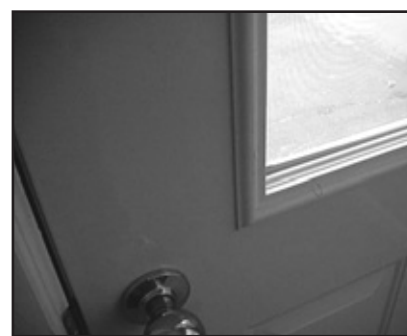
1. The hole in the door is cut wrong.

Among the factors are such things as marks already on the door from the lock, any existing plates, whether or not the door has a separate deadbolt, brand of lock you are installing, the tools you have to do the job, and your skill level in using the tools.

Lets look at some of the factors before going into the procedure of doing the job. Marks on the door: If the marks are too bad, I suggest telling the owner before proceeding. They may be aware of the problem, but they might just claim that you did the damage when you installed the new lock. If the damage can be covered by the rose of the new lock and allows for the movement of the hole from 2-3/8" to 2-3/4", by all means do so, otherwise don't move it.

If the door already has a "modernizing" kit installed to cover previously used holes, you are limited to using the same location if the plate will not cover the hole when it is moved. My experience tells me it is better to just leave it where it is in this case.

Window location or trim can present a major problem and will dictate what you can and can't do on the door (see photo 2).



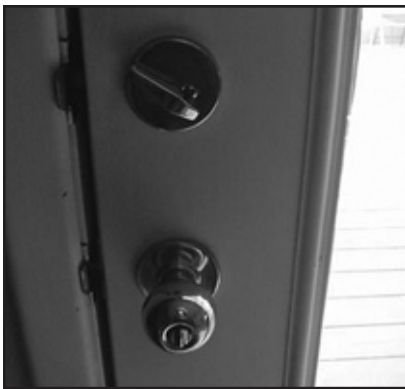
2. Window location or trim can present a major problem.

Often the location of the trim prevents movement of the hole since the trim would be inside the opening if you move it to 2-3/4". Another possible factor would be the location of the glass in the door. Sometimes it is impossible to know just where the glass edge is located. In that case, I would not try to move the hole and would use caution when cutting the new hole as well. Replacing glass in some of the old homes could get to be very expensive, so be careful.

If the door has a second lock such as a deadbolt, align the replacement lock up with the other lock (see photo 3). If they are the same, leave the new hole in the same location.

Some brands of locks will not require enlarging the hole to install a new lock. In that case, do not move the hole





**3. Align the replacement lock up with the other lock.**

unless the rose of the lock you are installing is large enough to cover the marks on the door. It is better to leave a smaller hole and be able to cover it than to leave a visible hole in the door.

The tools to do the job are what this article is about and I will cover them in more detail later. Just suffice it to say, if you don't have an adequate tool, do not try to do the job freehand. Your skill level will



**4. A-1 Model BUL-2 Installation Tool.**

be tested if you do the job without the proper tools and the results will be less than satisfactory. Invest in the right tools to do the job.

Let's take a look at some of the available tools for moving and/or enlarging holes in doors.

The most common style of tool used would be the old standby—the jig. The same tool used to drill crossbore holes for a new installation of a



**5. Kwikset 136 Installation Kit.**

cylindrical lock or deadbolt. There are many styles and designs of jigs available on the market, so you have a wide variety of choices. Some of the available models include:

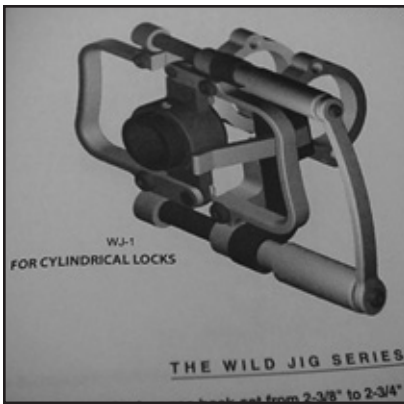
- A-1 Model BUL-2 Installation Tool (see photo 4).
- Kwikset 136 Installation Kit (see photo 5.)
- Locktools.com Model WJ-1 Wild Jig (see photo 6).
- Major Manufacturing Model HIT-44 Drillmaster (see photo 7).

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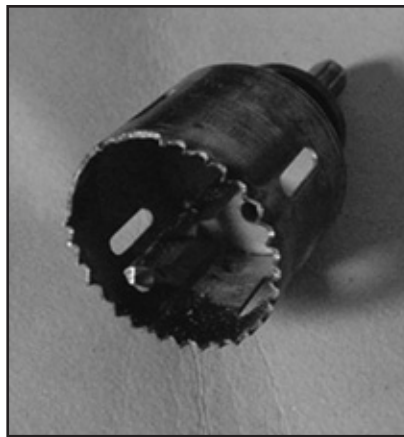
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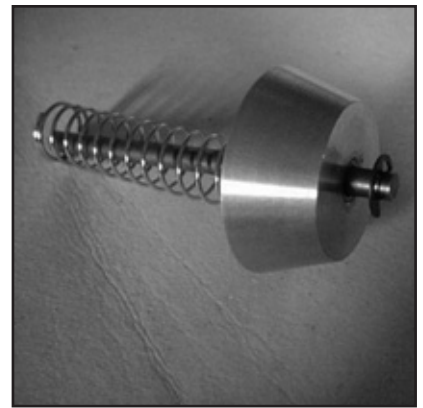
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**6. Locktools.com Model WJ-1 Wild Jig.**



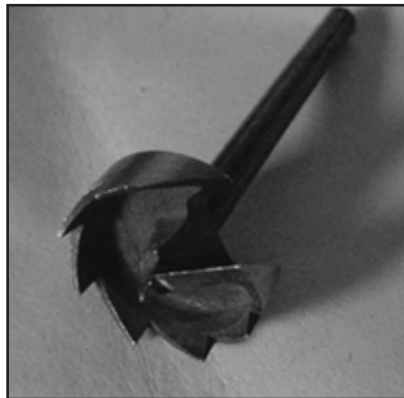
**9. A hole saw.**



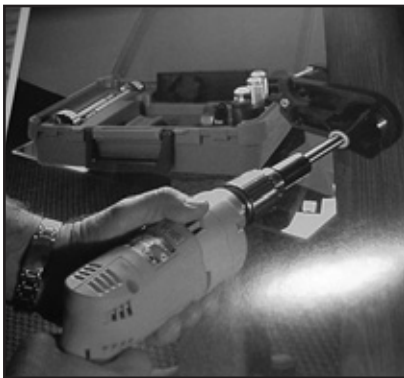
**12. The tool is shaped like a cone.**



**7. Major Manufacturing Model HIT-44 Drillmaster.**



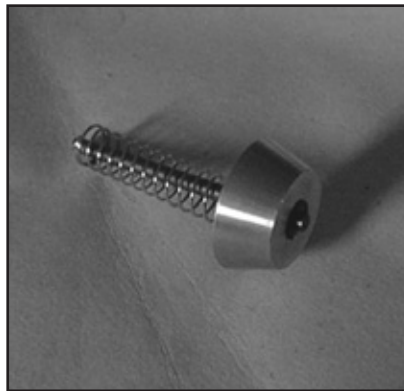
**10. A spur bit.**



**8. PRO-LOK Model INJIG.**

- PRO-LOK Model INJIG (see photo 8).

The style of jig works pretty much the same regardless of which tool you use. They clamp on the door and serve as a guide for the drilling of the hole. I prefer using a hole saw (see photo 9), to drill the holes, but many use a spur bit (see photo 10). My reasoning for the hole saw is two fold. First, there is less sawdust mess to cleanup, and I do suggest



**11. The Hole Saw Alignment Guide.**

cleaning up behind yourself. Second, if you hit a nail or screw, the hole saw will cut right through it, but the spur bit may be damaged beyond usage. Everyone has their own favorite.

One word of caution when using an installation jig. Be sure you are drilling straight into the jig. A slight angle with the hole saw may catch the side of the jig and turn the jig, leaving a serious scar on the

door. Just use caution and a slow speed and the job will be done without mishap.

A company named Tri-City Lock Company has invented a totally new concept in enlarging holes in doors and it may just revolutionize the way the job is done. The tool I am talking about is called The Hole Saw Alignment Guide (see photo 11).

The concept is simple, place the tool into the existing hole to center the hole saw and the hole will be exactly the same backset when it is enlarged. The trick was to make the tool so it would fit several sizes of existing holes. Daniel Mello, owner of Tri-City and the inventor of the Hole Saw Alignment Guide, solved that little dilemma by making the tool in the shape of a cone (see photo 12).

The next challenge was to get the tool to slide into the hole saw when it was guiding the drilling process. He solved this one too. He mounted the guide on a hard shaft that slipped into the hole saw in place of the pilot drill and then placed a spring behind the guide to keep outward pressure on the guide during drilling. He did not attach the guide to the shaft, but rather used a C clip to keep it on the shaft. This

**Continued on page 80**



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13. The guide is pushed into the hole saw when cutting.

allows the guide to be pushed into the hole saw as it cuts into the door (see photo 13).

The only shortcoming I have found with the Hole Saw Alignment Guide is if the hole in the door is too small to fit the nose of the cone. This probably will not happen very often, but in my area I find a few people who cut out a hole just big enough to fit the post pattern of their old

lock. Sometimes they use a drill bit and sometimes they just cut the hole with a chisel. Either way it makes for a very unprofessional job.

I am sure some locksmiths still use paper templates, and maybe it works for them. My thinking is that there are many fine tools that can do the job professionally and quickly, so why mess with paper? I suggest having both the jig and the Hole Saw alignment Guide in your toolbox and you will be prepared to do any crossbore door cutting job professionally.

Contact information for the companies mentioned in this article are:

**A-1 Security Mfg. Corp**

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Fax: 804-359-9415

Email: fmcc@demanda1.com

Website: www.demanda1.com

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**PRO-LOK**

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# THE Lighter SIDE

Worth the Price



“Want to ride shotgun?” Don asked our dinner guest. A service call had just come in that would take Don up country about twenty miles to the river-camp area. Joe and his wife had come to our home to have dinner and play cards with the understanding Don would have to tend to business, if a call came in, so it didn’t come as a surprise.

“Sure,” Joe replied, smiling. “I’ve always wanted to see what all you guys do to get into cars and make keys.

“I’m not sure I’m going, yet. The lady’s trying to decide whether I’m worth the price or not. Said she’d call back in a minute.”

The lady had said the keys were locked in the trunk, and she had no way of getting in, but the labor plus time and mileage up there was more than she’d planned on. Back and forth she’d gone in her thinking. She called back to ask a couple of questions, then said she’d have to think about it some more. Then she called again—all this, long distance—trying to talk the price down. When she said she’d have to see if she could come up with the money, Don figured it was a lost cause, but she surprised him. The next time she called, she said, “Come on.” She assured him she had the money in hand. “I just hate to part with it,” she said.

A small crowd had gathered around the vehicle to lend moral support, if nothing else, by the time Don and Joe arrived at the site. Joe stepped aside while Don surveyed the situation. As he’d hoped, the trunk could be opened with an electronic push-button inside the glove box. All he had to do was unlock the door and “hot wire” the trunk opener with his handy, jim-dandy little light-cord “jumper cables.”

He set about opening the door. That’s when the alarm system went off. Now, this isn’t unusual, but Don hadn’t expected it in such an older-model. As the squalling went on and on, more and more curious on-lookers gathered about, shouting their suggestions and comments above the wailing siren while Don, under pressure, worked to open the door.

Finally he got in, opened the glove box, pressed the button, and the trunk sprang open, to the delight of Joe, the customer, and the assembled cheering squad.

The customer immediately dove into the contents of the cluttered trunk, pawing through this and that in her search for the keys she knew were there.

No luck.

“Oh, my,” she wailed. “Now what am I gonna do?”

“Mama? What’s going on?” The lady’s grown daughter ambled up,

pushing a baby in a stroller. The older woman told her about locking the keys in the trunk and finally calling the locksmith.

“But I’ve looked through everything and the keys aren’t there.”

“Are you talking about that ring of keys with the big red whistle on it?” the daughter asked. “They’re right here. Don’t you remember? You dropped them in the diaper bag when you were giving Billy his bottle after his nap.” Reaching into the diaper bag, she produced the missing keys and handed them to her mother.

“Man oh man, that woman was unhappy,” Joe laughed when telling of it later. “She had to pay Don all that money for coming up there and getting her trunk open, for nothing. She was growling at her daughter, at Don, at everybody except herself.”

“Isn’t it interesting, how it’s never their fault?” Don injected.

“I can just see her now, slapping those bills in Don’s hand one at a time while cussing out everybody for miles around. I never heard a lady use those kinds of words before.”

“She should be glad her daughter came up with those keys when she did,” I offered. “If Don had been forced to make a new set of keys from scratch, it would have gotten into a whole lot more money than that.



"I bet that's right," Joe said. "You know, I'm about to decide I'm in the wrong business. I don't know when I've had such fun."

"Well it took you long enough," I said, anxious to get back to our card game.

"That's because Don got a couple more calls while we were out," Joe said. "Somebody up on the river was trying to pack up to go home, and they couldn't get their trunk open."

"Had they lost their keys or locked them inside?"

"Neither one. In fact, they had two sets of keys, and neither one would unlock the trunk. They would go in, but they wouldn't turn," Joe said.

"Did they have the wrong set of keys, or what?" I asked.

"That's what Don asked them, and they assured him what they had were the only keys they owned, and they'd worked just fine earlier in the day. Don put graphite in the lock and ran each

of the trunk keys in and out of the lock, but neither one would turn."

"So, were you able to help them?"

"Oh, yeah. It was simple, really," Don said, grinning. "This was another vehicle that had a trunk-release in the glove box, so I got the guy who owned the car to sit up front and push the release button. Then everybody else got up on the trunk and bounced around as much as they could, while I jiggled the key and tried to turn it in the lock."

By this time, Joe was laughing so hard tears were rolling down his cheeks.

"You should have seen 'em," he said. "It looked like a clown act at the circus. Then, all of a sudden the trunk popped open and they all jumped off."

"Did you ever find out what had caused the problem?" I asked.

"You wouldn't ask, if you'd seen what was inside. I couldn't believe what all they had crammed into that trunk—picnic

stuff, lawn chairs, beach towels, you name it. But I think it was the Styrofoam surf boards that did it. They were wedged in pretty tight. They had to force the lid down pretty hard to close it."

Joe's laughter had tapered off some, and he was wiping his eyes. "You know, I don't think I've had this much fun since my big brother sat on a hornet's nest. Are all your service calls like that?"

"No. I guess we just got lucky this evening." Don shrugged at me behind Joe's back.

"There's only one thing," Joe continued. "My ears are still ringing from the car-alarm at that first stop. I don't know how you could work with all that noise going on."

"It helps to be a little deaf."

"I didn't know you had a hearing problem."

"Yep." Don smiled. "It hit me about the time they started putting alarm systems in cars." **TRU**

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# MAJOR RUSTIFICATION

**Y**es, I know “Rustification” is not a real word, but in the world of safecracking, it is an important description of a condition of older safes stored in wet and damp areas. They can be rusted both externally and internally. The bolts may be coated with oxidation, the moving parts not stirring, and in the extreme, the door not opening with the combination lock opened.

In fact, most service people who work on vault doors know the importance of non-rusty bolts and bars. A large part (and important) of vault door servicing is the proper removal of rust with emery cloth and the proper lubrication of all moving parts within the door. After that is accomplished, the combination locks should also be cleaned, aligned, and lubricated. As on safes, the dial rings, dials, and splined drivers should also be checked for tightness and wear patterns.

Most lock parts are susceptible to some sort of oxidation,



by  
**Dale W. Libby,**  
**CMS**

but not of ‘rust’ per se. Most combination lock parts are made of brass or some other metal that is rust and oxidation resistant. However, these lock parts still need some sort of lubrication, even those Diebold locks marked with the legend “Do Not Lubricate!”

This article is not specifically about what lubricants to use, but some guidelines on good servicing procedures. What lubricants you use are justified by your experience and the climate that you specifically work in. I do not want to start any arguments on which product is better.

Customers lose the thought that safes, vaults, and even door locks are objects that need lubrication and service occasionally. This is especially true of automobile locks in outside weather conditions from salt spray to ice and

snow. Most of the problems with safe locks and inner door mechanisms cannot be seen by the customer, and must be repaired by the service technician. This should happen when the service technician is called on to change the safe combination.

Changing a safe combination is more than just sticking in a change key and redialing to a new combination. It should include taking the back cover of the lock off and checking tightness of the lock case screws and the lever screw at a minimum. The tightness of the spline key and the drive cam should always be checked. If this is the first time that you are working on a particular safe, then the spline key should be removed and the dial unscrewed. By doing this, you can check for tightness and proper alignment of the dial ring.

If I suspect any trouble with a dial ring, I align it, tighten it, and then install pop rivets. This usually keeps the dial ring from extra random movement. This is called and invoiced by me as complete safe R&R and combination changing. Yes it takes longer than

**Continued on page 86**





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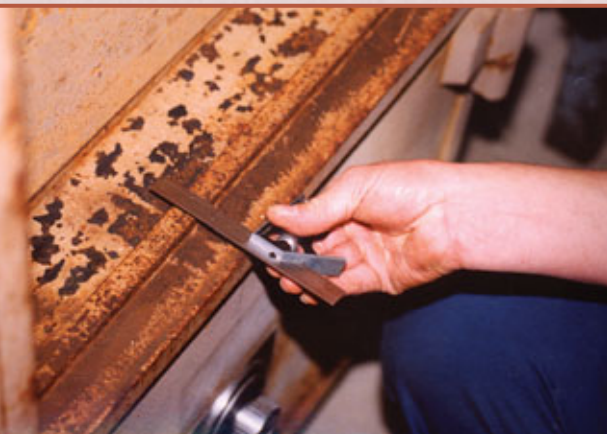




**1. Upper Door of MAJOR over and under double door safe.**



**2. Lower Locked smaller target door with ILCO dial.**



**3. After taking measurements from open upper door mechanism, we transfer the same measurements to the floor of the upper compartment, which is also the top of the bottom safe.**

a simple combination change, but so what? When you are servicing a safe you are putting your name on that safe door and lock until you work on it again. You do not do this for free. You must charge for it accordingly.

I do have customers that only want the combination changed for the least amount of money, and this I will do. However, I make sure that the customer knows that there is no guarantee, implied or written unless the lock is taken apart and checked. Some customers do not care. Pound wise, and penny foolish. I will see them again.

The rusty safe in this article is a Major double door over and under unit. The upper door is rather large with the smaller door beneath. The upper door is shown in *photograph 1*. It is in the unlocked position. The handle moves counter-clockwise after the combination bolt has been pulled into the lock case. The lower door was a much smaller version of the upper door. Due to space limitations, I could not get a picture of the entire safe at one time. The lower door is shown in *photograph 2*.

The upper door had a Sargent & Greenleaf spy proof dial and ring. The lower safe had an ILCO dial and ring installed. This is a giveaway that the lower safe had been worked on before, and the dial and ring, possibly also the lock had been replaced at one time.

Do not take anything for granted at first look. There is no sure way to tell what is happening on the inside of the safe door until you get there. I thought that the lower door still probably had the S&G lock and cover because of the rather complicated relock cover attachment. We will soon see if I was right.

When working on a double door safe, often the same locking arrangement is used in both doors. On this unit, the customer who kept this safe in a wet garage type building was using the upper large compartment for storage. He never had the combination for the bottom safe door and wanted to use it for additional cargo space.

This safe was in Rockford, Illinois. This means a Dale and Bob Sieveking opening and attack. The customer just wanted access to the bottom compartment with the same combination as the top safe. (If you see a magnetic scale in the picture, you will know that I am with Bob) The first thing we tried was to dial the upper combination to the bottom safe lock. This did not work. I tried a little manipulation, but got light readings. The dial seemed to spin too freely.

One of the advantages of having the open upper door was that we could see exactly what we were up against. It was a Major TL-15 configuration with relock cover that guarded not only the safe spindle from being punched, but also cam punching. If anything was punched, we would have to face the diabolical relocker/flapper relock mechanism. This relocking device is not fun to defeat. From the side it is easier, but from the front of the safe, it is a real bear of a job. There is a nasty hardplate that protects it and there is almost no way to get the proper angle to punch the cross locked relocker.

This relock bolt is spring loaded from the side and the front. If it is set off, it springs toward the opening side of the safe door and then is pushed up against the square bolt retainer. This in effect cross locks the bolt and it is hard to push back, even when you are working on it from inside the safe with the door open. After measuring the depth





**4. Borescope and shop rag inserted in the 1/2" drilled hole to view the change keyhole in the lower combination lock.**



**5. Door opened showing combination lock cover with attached complex relock activation bar.**

and placement of the change key hole, we transferred these measurements to the bottom door. The hole we drilled was about 4" back from the front of the door in line with the change key hole to the right of Dial center about 1/2". In *photograph 3*, Bob is using a square to properly measure this position.

The hole would only be visible when the upper door was open. We were going into the top of the bottom safe through the floor of the upper safe. Because of the excessively low price that Bob quoted, this was going to be a quick in and out job. We commented about the rusty condition of the upper safe and the customer said he would take care of it as well as rehabbing the bottom safe door mechanism after we got the combination to work. It would not even be necessary to fill the bottom hole with a plug. He wanted it cheap and fast. We wanted to oblige, and we did!

We decided not to get to technical. Instead of the regular 1/4" hole, I opted for the standard (to cover slight variations in mis-measurement) hole of 1/2". We had about 1-1/2" of steel to drill through and I did not want a slight angle to keep us from hitting the exact mark. After drilling through the top of the bottom safe, we hit an intact sheet metal cover over the combination lock mechanism. Bob decided to put a 1/4" hole in the cover. The cover was loose on the door, and the 1/4" hole was a little off, and we could not see into the change key hole. Trying to re-drill the hole was not possible.

To remedy the situation, I inserted a drift punch to try and make the hole a little larger so the Hawkeye scope could be properly placed. Imagine my surprise when I punched the back cover with a small sledge and the cover popped off the back of the safe door. It had rusted all the

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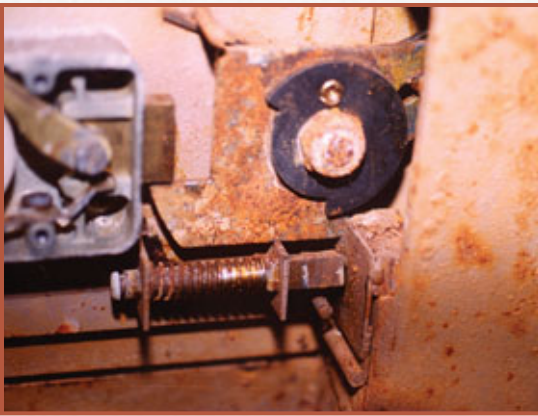
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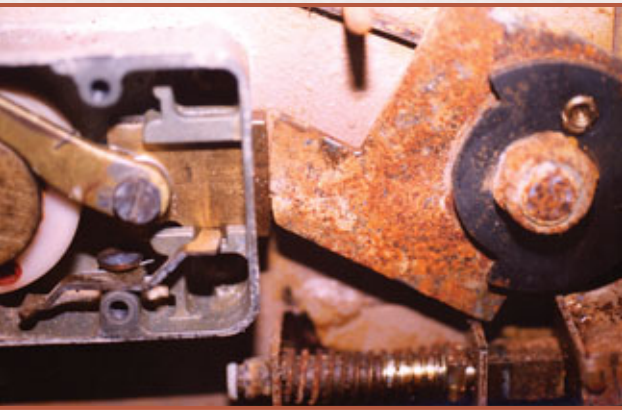
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**6. Combination cover removed showing how relock plunger should be.**



**7. Lock opened showing the relock plunger rusted into the open position.**

way through and my little hit took it off the door. We now had perfect placement for the scope for viewing.

It would be perfect if the scope didn't move so much. Bob solved this problem by gently shoving a shop rag into the 1/2" hole around the scope tube (see *photograph 4*). With the rag inserted the scope could be easily positioned and held into place while reading the wheels. If we had

bothered to take apart the upper combination lock, we would have not been surprised to see white plastic wheels. The S&G lock had the plastic Delron wheels popular many years ago. This is why I felt the dial spin so freely. Plastic wheels give a slightly freer movement that metal wheels do in most cases.

The nice thing about S&G wheels is that the key change hub is RED. It is easy to see against the white background of the wheel body. There are no rivets to see or gauge, and the red does show up nicely when spinning the wheels to determine numbers. We figured out the combination to the change index and then transferred to the opening index. The lock opened up right away, but the handle took a little persuading before it would move down all the way.

*Photograph 5*, shows the rusticated inside of the door. The handle cams, the flappers, the relock bolt, and the relock hold back cover parts are coated in rust. Even the lock case is oxidized, although not technically rust. *Photograph 6*, is taken a little out of sequence to show a point. This is how the relock trigger should be after the cover is taken off. It

is fully extended and pushing against a flapper that fits into a cutout on the internal bolt bar.

The way to beat this cross-locked relocker bolt is drilling from the side of the safe about 1-1/2" either above or below the bolt, and punching the flapper back with a large, long drift punch or a piece of 5/16" metal rod. The bottom spring that pushes the relock bolt cannot be seen in this photo, but it is there under the bolt.

*Photograph 7*, shows what happened when I removed the cover of the lock. The relock did not spring into action. It was Rusticated in Place (RIP). Usually RIP means Rest in Peace (Requisite in Pace), but can also mean Rusted in Place, or in referencing my service van, Rusting into Pieces). Whatever, you know what I mean.

We lubricated everything except the lock with penetrating oil and gently tapped everything, including the relock bolt to get it to work again. After servicing the lock we put everything back together and greased the hinges as well as the bolt mechanism. Other than being rusty, the door worked rather well. Bob then sealed our access hole anyway. After cleaning the rust from our tools, we left the customer happy.

When changing a safe combination, check everything out, clean, lube, and tighten.

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# 2002 LINCOLN LS

A new ignition lock and an encrypted transponder key blank.

by



Tom Seroogy



Randy Mize

## IGNITION LOCK



As stated previously, the ignition lock on the LS is the very same ignition used by the short-lived 1997 through 1998 Mark VIII. STRATTEC is currently the only manufacturer of this lock, using part number 703596. The key, STRATTEC 599902 (Lockmasters LKMH74PT), is also unique to this car; using an encrypted Texas Instrument transponder chip and the Ford 8-Cut keyway.

## PART 1

Virtually unchanged from its previous year's release, the Lincoln LS incorporates several unique features for the locksmith. Among these



are an ignition lock, first introduced on the 1997 Lincoln Mark VIII, and an encrypted transponder key blank. Currently, neither the key nor the lock are used on any other North American Ford/Lincoln/Mercury vehicle.

## OPENING



Opening the LS is a simple task using either an Under-The-Window tool or by prying the door back and using a long tool to activate the lock button. To unlock the LS using the Under-The-Window tool, first make room for the opening tool by wedging the window.



Insert the Under-The-Window tool into the door and maneuver it into position. Pull out on the handle or toggle the door lock button to unlock.



Although this particular key looks very similar to the more common STRATTEC 598333 (Lockmasters LKMH72PT) Ford transponder key, they cannot be interchanged! To help distinguish these keys apart, the LS key blank provided as both the original key and the STRATTEC key will have a two-digit marking - a letter followed by a number - on the blade of the key, and the transponder cap or cover will be gray in color.





The ignition lock on the LS is found on the dash. Removing the ignition lock on the LS is quite simple and does not require any column disassembly.



Begin by carefully prying up and removing the trim plate surrounding the ignition lock.



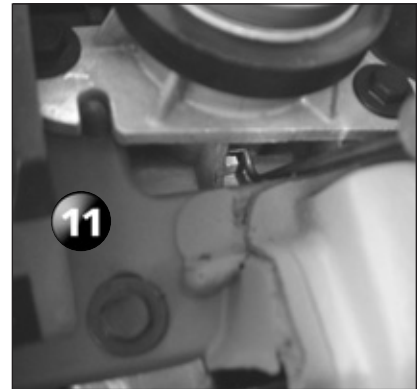
The plate is held to the dash using a couple of clips. Be careful not to break these clips.



The transceiver ring for the transponder security system is fully exposed at the front of the lock, and although not readily apparent, the lock's retainer is now accessible.



To release and remove the lock, insert a working key, pick or drill and turn the lock to the ON or RUN position.



Locate and depress the retainer.

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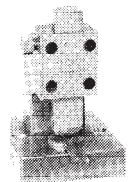
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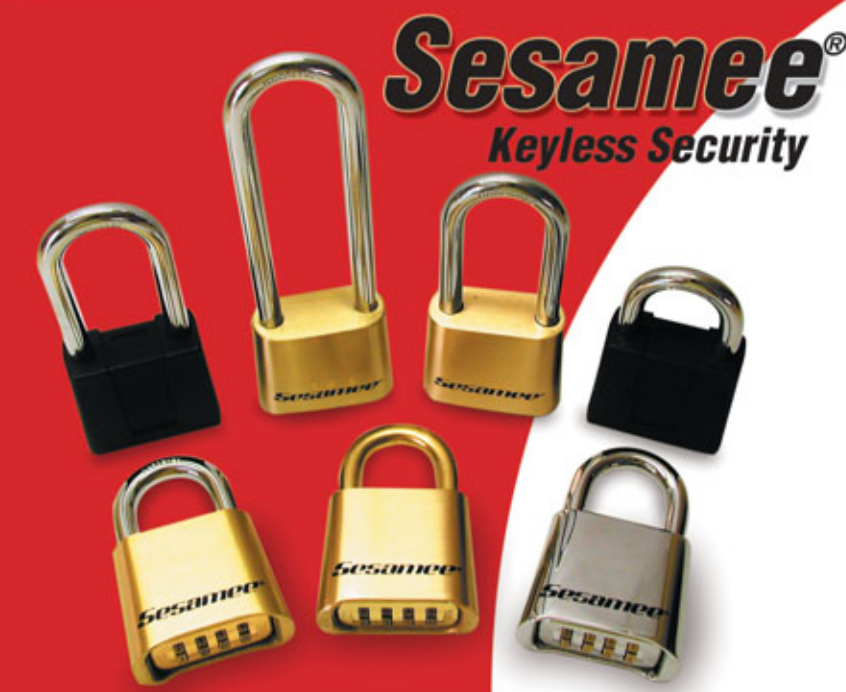
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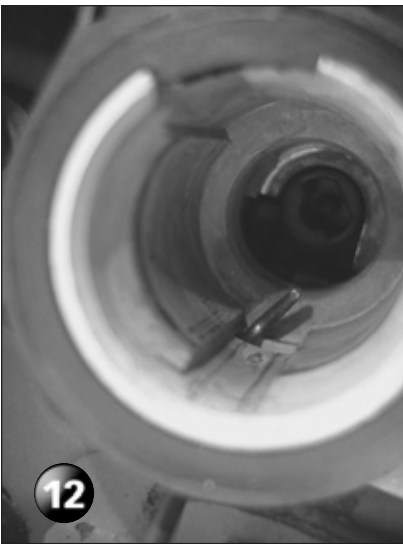


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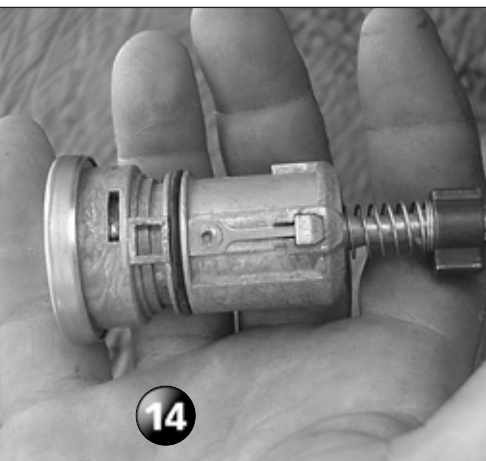
## DOOR LOCK



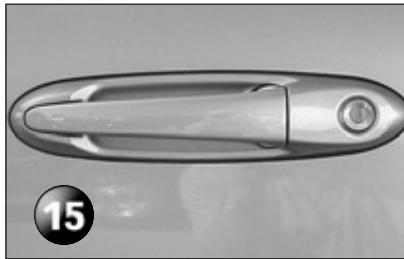
**12**  
The retainer is located at the 6 o'clock position, about 1-1/2" back from the face of the lock.



**13**  
Use a right angle scratch awl to depress the lock's retainer and remove the lock.



**14**  
The removed lock



**15**  
A door lock is present on the driver's door only



**16**  
Despite first appearances, the door lock is fastened behind the handle and is not part of the handle.



**17**  
Fortunately, door panel removal is extremely simple on the LS.



**18**  
Begin door panel removal by first lifting the small trim cover that hides two screws in the cup of the armrest.



**19**  
Gently pry the window control button panel up from the front and lift it out of the armrest.



**20**  
Disconnect the connector from the bottom of the panel and set aside.



**21**  
Now remove the inside handle trim.





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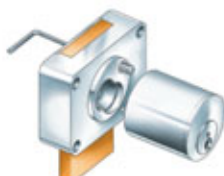
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22 Carefully pry the trim from the front edge and slide it away from the handle.



23 With the trim piece removed, a small screw is visible. Remove the screw.



24 Remove the rest of the screws that can be found around the perimeter of the panel.



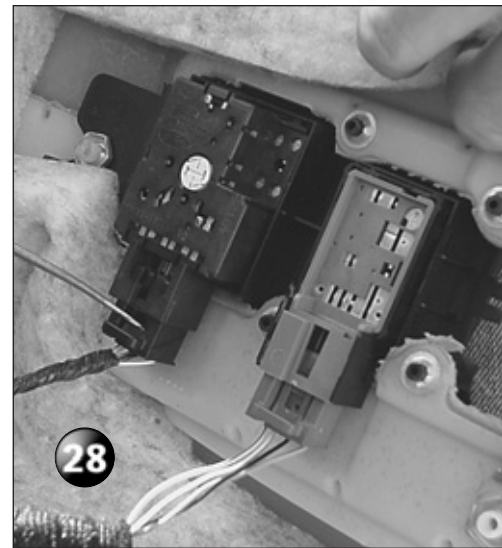
25 Three of these screws can be found along the bottom of the panel.



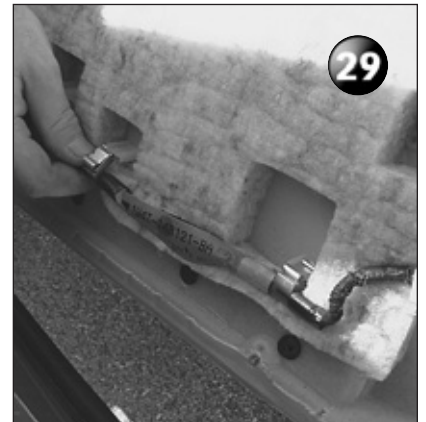
26 Once complete, pry the door panel off of the door.



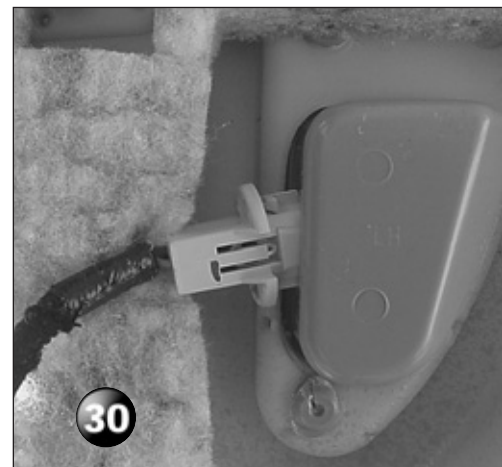
27 Plastic clips hold the door panel in place, and it may need a little coaxing. Be careful not to break the clips or the clip holders



28 Once the panel is loose from the door, carefully remove the various electrical connectors. Two can be found up near the side door handle area.



29 An interior floor light can be found near the bottom left of the panel. This harness of this light connector includes several strain relief clips.



30 Remove these clips before disconnecting the light. Set the door panel aside.



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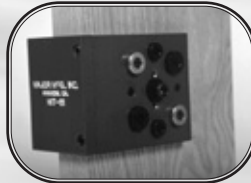
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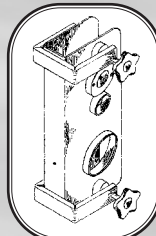
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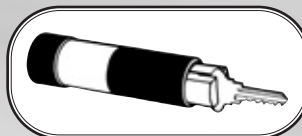
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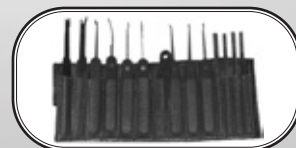
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## **A Few Words From Jake...**

Had a reader call me up a while back and wanted to know how come so many of the tips he read were submitted by the same person. The reader went on to say that it seemed like the same people were in the column more frequently than others on a regular basis.

I said to that caller, "You noticed that, did you?" Why do you think so many of the same names appear under tips month-after-month?"

After a little throat-clearing and a few "Uh, well, uh..." and "Well, uh...I, uh"; he mumbled that he thought it might be because they sent in more tips than other folks did.

Yep! The answer is simple. Over a given period of time, the names that chronically appear under tips in this column are the names of locksmiths who know a good thing when they see it. So, they take the time to sit down, jot down their ideas and send them in for consideration...and usually end up winning a prize.

Besides getting a prize the month the tip appears in the magazine, they have a good shot at a year-end prize when we make our year-end drawing.

On the other hand, I've had tipsters send me a tip, it didn't get published and they later called and wanted to know why. Again, it's simple: If I can use a tip I will—if I can't, I won't. So if one tip doesn't make it into the column, maybe the next one will.

If you've submitted a tip and it didn't get in the column, submit another...and another...and another, if necessary. One of those tips has to make it. The law of averages says so. But, if you don't send a tip to me, I can guarantee you that you'll never see your name under a tip in this column—don't you agree?

So, write the idea down. Draw a diagram if you like...and send it in! That's the only way you'll ever come close to winning a prize.

In the meantime, let's look for each other at ALOA.

See y'all next month!



*by Jake  
Jakubowski*



### **Ford Pick-up Spare Tire Key Trick**

If you need to cut a Ford spare tire key and find that the key is too long to fit in your key machine, you can make a home-made key that will work as good as the original and can be cut on any key machine.

Go to any garden center and get a round plastic rod used to stake tomatoes. Cut off six inches of the rod, and then cut a slot in the end of the six-inch piece. Next, take an X-7 key blank and file or grind the sides off the head of the key. Drill two holes into the rod. Then drill two holes into the cut down key blank.

You can now copy the customer's key, use two small screws and two nuts to fasten the key to the rod. I put a key ring

**Continued on page 102**



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# A1

If you're looking for caps and t-shirts, forget A1.

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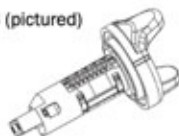
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**Quickpull 2.** For Schlage 'F' Series locks. Now pull locked knobs from the front. **#QP-2**

## A1 ORIGINAL KEY BLANKS



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 Ford logo **#H67-PH**



Ford 8-cut key blank  
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**#GMX-320**



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**#GMX-380**



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**#GMX-310**



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GMC Canyon/GMC logo  
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**#HD106-PT**



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**#TOY43-AT4**



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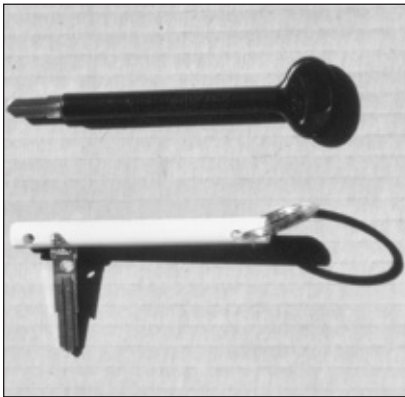


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Photograph 1.

into the other end to make it easy to turn (see photograph 1).

Anyone that doesn't want to make their own can buy them from *Hawley Lock Supply*.

*Lamar McCrider  
South Carolina*



**- WINNER -**

**Cabinet/Locker Rekey Trick**

Did you ever have a customer bring in a "T" or "L" handle lock found on metal cabinets and lockers to be rekeyed? Then when you started to remove the plug, you found it didn't have a poke hole to depress the retainer and release the plug?

This meant you were going to have to either drill a hole to access the retainer, or you would have to try to fish the retaining wafer down with a bent wire, or hook. Here's a way I've found to re-key the plug without having to drill a poke hole.

Duplicate the customer's working key. Put the key into the plug and clamp the bow of the key very tightly in a vise. Work the handle back and forth from the locked to the unlocked position while pulling straight back on the handle very hard! The cylinder will pop out (trapped on the key in the vise) with no

damage. The back and forth motion, while pulling back on the handle puts pressure on the retainer and allows it to release.

This technique will only work on cylinders that trap the key. If the cylinder is keyed 3337 or 1234 (bow to tip) or similar cuts, the lock will simply pull off the key. It will work very well on cylinders keyed to 4321 or 4242 or a multitude of similar cuts that trap the key.

This technique will not, so far as we have seen to date, damage the lock or the retainer. Simply depress the retainer and snap it back together.

*Jerry Sullivan  
New Jersey*



**- WINNER -**

**Potpourri—Four for One**

This is a compilation of tips from the last few jobs I did.

I had to install an electric strike to a rosewood door. Not wanting to damage the door and to cover any possible slips, we checked with maintenance and found they had some of the original stain for the door. We touched up all marks before we started and then stained the edge of the strike prep so that no raw wood was visible when the strike was installed. The result was a clean low visibility install.

On an installation to a Duronodic frame, we touched up the edge of the cut outs with a black "Sharpie" magic marker. Again no raw aluminum was exposed and the install looked a lot cleaner.

When installing small diameter Ilco, Timberline, or ESP furniture locks where there is no trim collar, drill the face of the material with a 5/8" Forstner



bit to a depth of 1/8". Then, counter-bore from the back of the drawer/door with a 11/16" or 3/4" Forstner bit. Touch up the edges of the cut with black marker and install the lock. The face is a nice close fit and no raw wood is visible.

In each of the above cases the customer was extremely pleased with the effort we took to do a clean install.

*Martin Brown  
Canada*



**- WINNER -**

**Let There Be Light**

Third hands come in all shapes and sizes. I've found one that I'd like to share with you.

This little jewel is called "Nite Ize" and can be found in various auto parts stores, hardware stores and big box stores (see photograph 2). If it does nothing else, it will keep your MAG® Silhouette flashlight where you can find it when you need it.

What I find is, that when I'm under the dashboard of a car working on the ignition, I can grip the Nite Ize between my teeth and direct the beam of light wherever it will do me the most good. And, if I drop it, the lanyard is around my neck so I don't have to get out from under the dash and hunt for a light that might otherwise have rolled under the seat.





**Photograph 2.**

As you can see by the illustration, the Nite Ize is designed to accept a MAG® Silhouette light, or a similar product and keep it close by hanging around your neck.

If you can't find one in your local area, call or write, NITE IZE INCORPORATED, 5735-E Arapahoe Ave., Boulder, CO 80303.

*Dennis Harmon  
Colorado*

# Sargent & Greenleaf

**- WINNER -**

## **Sentry 3810 Opening Trick**

This is a trick I've used to get into a Sentry model 3810 fire safe.

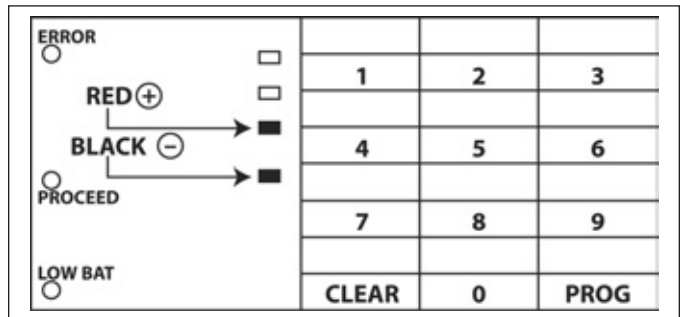
This safe had been burglarized, but not opened. The safe was brought to me with the front panel dangling by the wires.

*Illustration 3*, is a sketch of the display board minus, the keypad, which was missing. Notice that to the left of the top row of contacts (1-0), there is a row of contact points soldered. The 3rd and 4th contacts are the ones which are needed to open the safe by releasing the solenoid,

and allows the handle to be turned downward to open the door.

Use the battery pack if still there. If not, set up a battery pack with 4 AA batteries and a wiring harness. Use the red wire or (+) to the post indicated, and the black wire to the (b) simultaneously. While holding the contact, push the handle downward (Or, have a helper do it), and the door will open. If the solenoid does not trip, try reversing the wires.

The illustration is used to depict the solder points to use for opening. If the board is ripped off



**Illustration 3.**

# **OSI Security Devices Inc.**

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**OMNIOLOCK Exit Device Trims** are designed to be used with new or already existing Exit Devices. These trims are available in keypad-only, magnetic stripe card reader-and-keypad (at right), or in HID proximity card reader-with-keypad configurations. These trims adapt to new or already installed Von Duprin, Precision, Corbin-Russwin, Yale, Sargent, and Arrow Rim Exit Devices without drilling ANY new holes in your existing door. They also adapt to Vertical-Rod Exit Device.

like the one I had, and there are only 2 wires sticking out of the door; simply use your battery pack to touch the red and black wires to the white and black wires protruding from the door and lower the handle.

*Fred Spencer  
Pennsylvania*



**- WINNER -**

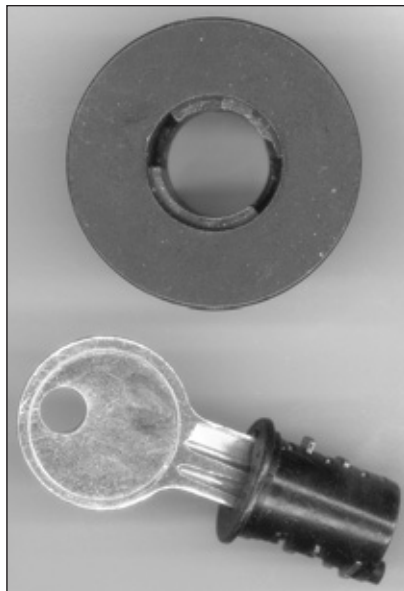
**Herman Miller Furniture Lock Trick**

I do a lot of work on Herman Miller furniture locks.

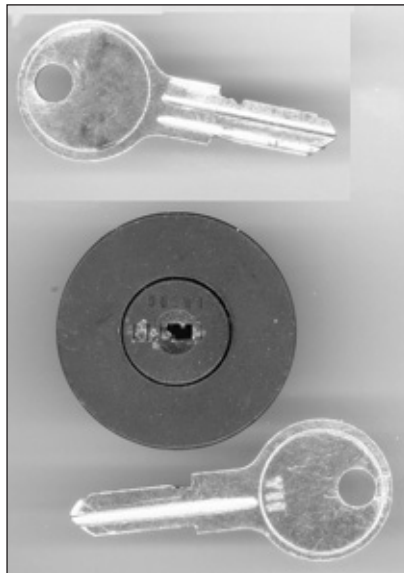
I'm sending a sample of one that is commonly found on their horizontal file cabinets. These locks have a pull out core/plug (see photograph 4). It is suggested that to remove the core, you use a hook to release the retainer. I have found a better way to remove these cores than using the hook game.

So far, all of these locks start with an "LL" or a "UM" code and have a retainer ring in the sixth wafer position. I create a sixth position on a Y-11 blank by cutting the shoulder back and then shortening the tip so it doesn't extend past the end of the plug.

I file a little in the newly created 6<sup>th</sup> position—just enough to raise



**Photograph 4.**



**Photograph 5.**

the retainer ring to the shear line. I make two of these keys, one with no cuts for reinserting the plug (see photograph 5). This key will also pull the easy ones. I cut the

other one with a shallow trap cut in the first position for the stubborn ones.

So far, they've all succumbed to either one, or the other of these keys. It sure beats bending hooks.

*Dennis Gillette  
Illinois*

**ILCO**  
**- WINNER -**

**Pin/Wafer Reader Trick**

I'd like to share an easy way to quickly figure out the tumbler sizes in a wafer or pin tumbler lock.

Simply make a set of depth keys with the depth number on them starting with a zero, or "1" depth (depending on the brand your dealing with) and moving progressively to the deepest depth in that series. Just make sure that you only cut one depth on each key. In other words the KW-1 would have one key with all number one cuts, a second key with all number two cuts and so on. Stamp each key with its respective depth.

In the examples in photograph 6, I have shown (clockwise) a KW-1, a Y-11, a Y-13 and a SC-1. You can make your keys up using the most common keyways you deal with on a regular basis.

After shimming the cylinder and removing the plug, just

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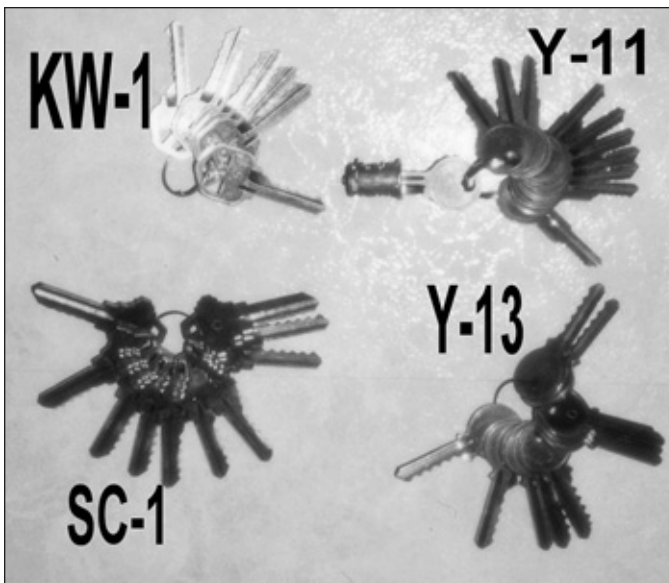
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**Photograph 6.**

insert the keys one-by-one and determine the depths in each chamber. Make note of the depths and code cut a key for that cylinder. I find this much easier than removing and measuring each pin or wafer.

*Larry Bors  
Oklahoma*



**CONTICO Tool Box Keys**

I had a customer that needed keys for a truck toolbox that had "Contico Tuff Box" on the lock. I called Contico to see what blank it used, because I couldn't find a blank to work. They said that they would only sell the keys to the end user at \$2.00 per key.

I thought that was cheap enough, but my customer was heading out of town and needed them right away. I tried to fit some new blanks from TriMark that I ordered from Ilco and one matched the Contico lock. I used the Ilco 1623, EZ #TM15. They im-

pression fairly easy and the one I made was mostly shallow depths.

*Frank Kitchen  
Indiana*



**ACE® Tubular Key Trick**

Last weekend I received a call from a Harley-Davidson rider. He had run out of gas and had to push his bike over a mile to get to a gas station. At the gas pump he realized that he didn't have a key to his gas tank. He had just bought the bike and the previous owner did not give him a key to the tank.

The switch had a standard single-sided key, but the gas tank

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had a tubular lock that used the 137B blank. I had my tubular pick in my hand and was about to pick the lock when for some reason I put a key blank into the lock just to make sure that I had the right blank.

The lock turned to the open position using only the uncut key blank. By this time some of his biker's friends had arrived. Just to satisfy my curiosity, I tried the key blank in a couple of the other bike's gas tanks that had tubular locks. It turned all of them. I don't know if this will work on all of the tubular gas tank locks on Harley's, but it has worked on the ones I have tried.

I have to tell you that I'm sure glad it worked that way, because this guy was no fun to be around.

*Luke McCrider  
South Carolina*



**Free Door Opening Tools**

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solicitations are credit card sized plastic cards. I have found that they are just the right gauge material to shim doors open, and they are more flexible than a standard credit card.

If the door has thick weather stripping or a 1/4" gap in the door, you can insert the card by the latch, then pull the door toward you and push on the card. The dead latch will fall into the strike plate hole and you simply have to push on the card with more force for the door to open. If a little more tensile strength in the card is needed, you can slip another card on top of the already inserted card to force the latch back.

*Dave Boemer  
Coeur d'Alene*



#### **Dead-on Deadbolt Strike Locator**

In this area I get a lot of calls to install deadbolts in existing hollow metal doors/frames. To assure a good fit and smooth bolt throw, I made a marking device from an old deadbolt latch (one without the hardened insert).

I cut about 5/8" of the tip off a hardened nail to use as my scribe. Next, I drilled a hole into the dead center of that bolt just slightly more than 1/2" deep, so that slightly less than 1/8" of the point will stick out of the end of the bolt, then I epoxy it in place.

After prepping my door edge with a Squeeze Play or Major Manufacturing's *Lock Mounting Brackets*, I install my modified bolt. With the door properly seated in the frame, I use a straight-blade screwdriver to throw the bolt until it hits the metal jamb. While holding tension on the screwdriver, I gently pull the door open about 3/8", and then turn the bolt

back to the unlocked position.

When I open the door there is a small scratch mark on the frame, starting at the center of what will be the strike hole. At that point, I drill a 1" hole on the center point, install a thimble strike and have a perfect fit for the new deadbolt. This works equally well on wood doors and frames. On frames filled with mortar, save your hole saw by cutting only until you have the metal cut, then finish the hole with a masonry bit.

*Bob Roman  
Maryland*



#### **Twenty Second Safe Opening**

A cheap electronic safe model sold by a national discount tool house for around \$40.00 has become very popular in my area, and I suspect other parts of the country as well (see *photograph 7*).

The safe is labeled GORDON and has SKU #P45891 on the front beside the keypad. If the safe is locked but operational, it can be opened in approximately 20 seconds with no damage by simply resetting the combination and unlocking it as normal.

To reset the combination with the safe locked, begin by using a screwdriver or metal dowel that will enter the upper left factory holes in the back of the safe. The combination change button is located on the edge of the lock housing nearly straight across from this hole. Push the dowel or



**Photograph 7.**

screwdriver 9-1/2" into the safe and locate the button by feel. It is easy because it is the only thing protruding from the lock housing on the hinge side.

Push the combination change button until the lock beeps. The direction to push is into the lock body away from the hinges. After the safe beeps release the button then enter four numbers and push the "A" button. The combination has been reset.

Enter the new combination, push the "A" button and rotate the thumb-turn to retract the two bolts within 5 seconds. The safe is open, the combination is reset and you are ready to collect your fee.

Take this opportunity to sell your customer a quality safe for their valuables, and explain that discount safes are definitely for low cost items that need minimal security only.

*Bob Floyd  
Arkansas*

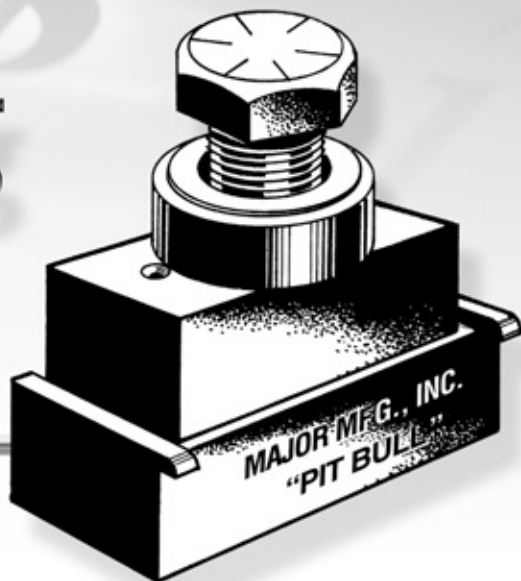




# Time Saving Tools

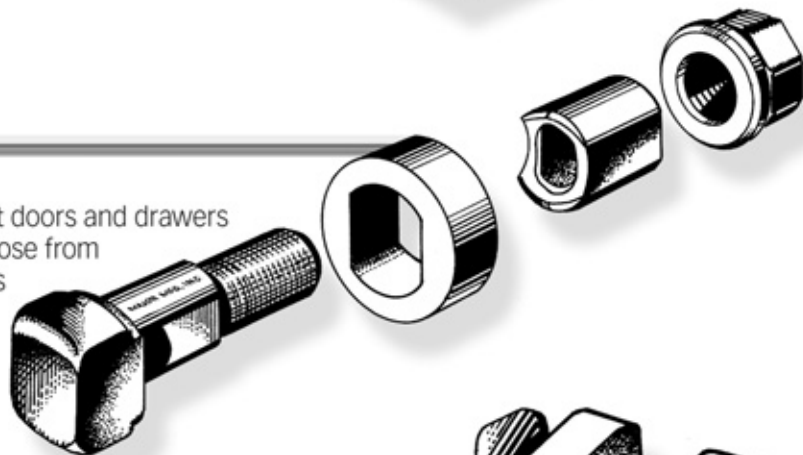
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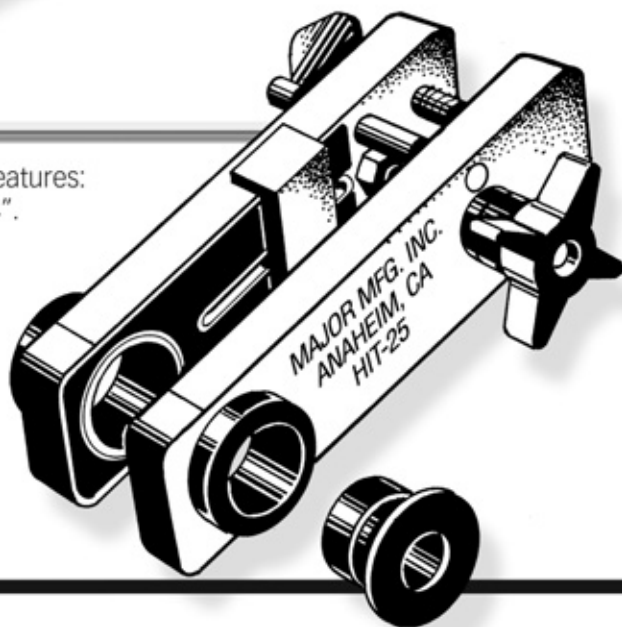
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Circle 249 on Rapid Reply

# 2008 BMW F650GS

by  
John  
Blankenship



**1. The F650GS is a deluxe dual-sport motorcycle with a 650cc single cylinder engine. The gas tank is under the seat so the gas cap is located on the right side of the seat. It is a good lock to originate a key from.**



**2. The dust cover is raised showing the gas cap in the locked position.**

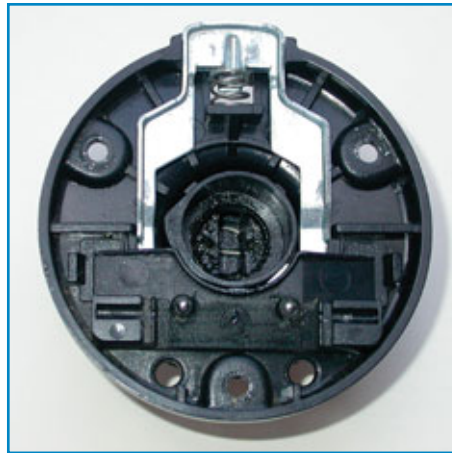


**3. The gas cap has been picked and is ajar. This lock was easily picked counter-clockwise by bouncing a rake between the wafers on top and bottom of the keyway. You are picking against spring pressure so have a small screwdriver ready to finish turning the plug. The plug does not hang up in this position when a key is used; the spring returns it to the locked position. Do not disassemble the lock with the plug in this unlocked position or the spring-loaded tailpiece will pull out of the lock plate. The plug is very easily picked back to the locked position; just touch the rake to the wafers and it springs back.**





**4. Stuff a clean rag into the filler neck so nothing falls into the gas tank. Then remove the three Phillips screws and remove the lock plate.**



**5. The lock plate is removed from the gas cap. The spring-loaded tailpiece is in the center and is a little tricky to replace if it comes out.**

**6. The wafer retainer is on the upper side of the plug. Depress it and push the plug out the front. Be careful and do not allow any of the wafers to fall or spring out.**



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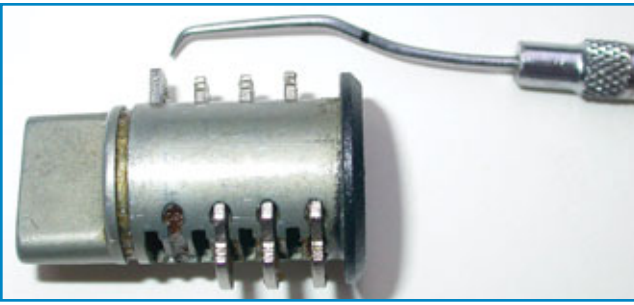
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**7.** The gas cap plug contains six wafer tumblers and a wafer retainer. The tumblers are staggered on both sides of the keyway with the even space numbers on top and the odd space numbers on the bottom. When the gas cap is closed, the top will be toward the rear of the motorcycle. The tumblers are in the first six chambers, the seventh chamber is empty, and the retainer is in the eighth chamber. The retainer is closed on the bottom, so it can be depressed by using a dental hook pick in the keyway so you can avoid disassembly. The retainer is 3/4" (19mm) from the face of the plug. Put a mark 3/4" from the tip of the pick to aid in locating the retainer.



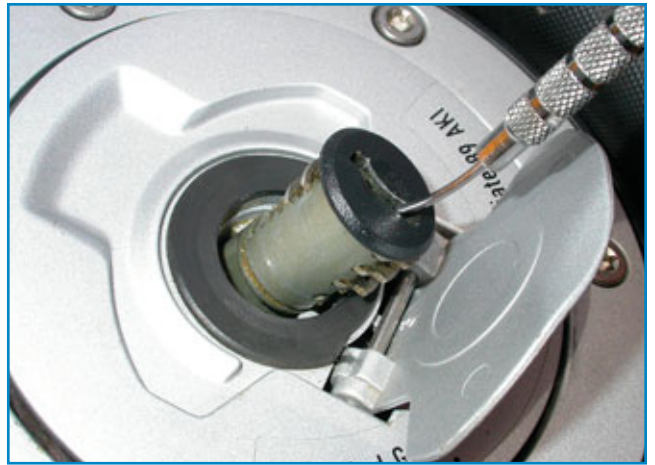
**9.** The gas cap wafers are from left to right, 213133. They are stamped with the depth number but the numbers face the rear of the keyway so you cannot see them when looking into the keyway. You can use the ASP A-13-101 keying kit, which is also used by 1975-1993 BMW automobiles that use the 'HB' codes and X59 or X144 blank. You can determine the cuts for spaces 7 & 8 in the ignition lock by using code software, progression or impressing. Software: A search using software revealed that there are only two codes that use those cuts in the first six spaces so the last two cuts can only be 12 or 23. The code turned out to be H23422P with cuts of 21313312.

Progression: Only 3 depths are used so there are only 9 possible combinations for progressing cuts 7 & 8. 1st key: 11, 12, 13, 23, 33. 2nd key: 21, 31, 32. 3rd key: 22.

Impressing: The wafers are sturdy so impressing is a good option.



**11.** A code cut X59 with cuts of 21313312 works all three locks smoothly. The original key is on the bottom.



**8.** Work the pick into the keyway until the mark is even with the face of the plug. When you are on the retainer you can feel the spring tension as you pull it down (toward the front of the motorcycle). The pick will extend into the lower wafer chamber enough for you to pull the plug out once you have it depressed. A standard hook pick will not work because it does not push the bottom of the retainer down into the lower wafer chamber far enough.



**10.** Both of these blanks will work. A Silca BW7BP is on the left and an Ilco X59 is on the right. An Ilco X144 will also work.



**12.** The rear compartment lock is also a good lock to originate a key from.



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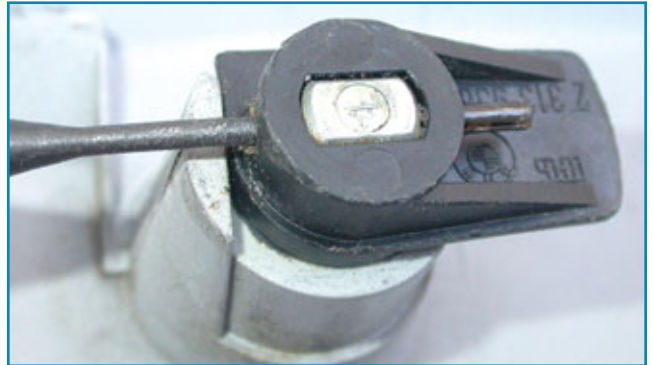
13. The rear compartment lock has just been picked 90 degrees clockwise. This lock was easy to pick by bouncing a rake between the wafers on top and bottom of the keyway.



14. After you unlock the rear compartment, slide the cover forward and you can lift it off.



15. The tailpiece is held on by a roll pin.



16. Use a 3/32" punch to drive out the roll pin.

17. The rear compartment plug contains six wafer tumblers and a wafer retainer. The retainer serves no function that



I can determine. The tumblers are in the first six chambers, the seventh chamber is empty, and the retainer is in the eighth chamber. These tumblers are numbered per depth just like the ones in the gas cap.



18. The Determinator™ for BMW automobiles works well on the rear compartment lock. The spacing and depths are the same as the automobiles except BMW motorcycles do not use the fourth depth.

The tool will hang up on #3 depth tumblers and since there are no #4 depth tumblers, you know it is a #3 if it hangs up. Note: The tool hung up on the #2 depth tumbler, but it pulled loose when I wiggled and pulled on it. It would not pull loose from the #3 depth tumblers. There is grease in the lock so use a spray lube with the tube inserted into the keyway and then rake the wafers to free them up. The tumblers are staggered on both sides of the keyway with the even space numbers on top and the odd space numbers on the bottom. The Determinator™ will also work on the gas cap, but it is a shorter lock and the space numbers on the tool will not read correctly. The ignition lock has so much grease that I could not get good readings. I recommend using The Determinator™ in the rear compartment lock and then use software or a progression process to find the cuts for spaces 7 & 8 in the ignition lock.



19. This view from the drivers' seat shows the ignition/steering lock located in front of the handlebars.





20. The ignition/steering lock is shown in the "R" or ignition off position. A slight turn clockwise turns the ignition to "ON" and turning it 90 degrees counter-clockwise turns it to "P", which turns on the parking lights and locks the steering. Turning it farther counter-clockwise to "OFF" turns the parking lights off and leaves the steering locked. The steering must be turned to the right or left in order to lock the steering. The steering lock bolt can bind when trying to unlock it; wiggling the handlebars frees it so the lock will turn.



21. The ignition lock plug is removed by turning the ignition "ON" and depressing the retainer through the poke hole. The rectangular poke hole is located on the front of the lock just above the round detent spring retainer and just to the right of the center rib. You need to turn the steering all the way to the left in order to use a punch as shown in the photo.

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22. The ignition lock uses the same plug as the rear compartment lock, but it is set up differently. It contains all eight wafer tumblers with the odd spaces on the bottom and the even spaces on top. The retainer and spring fit into the hole that is used for the roll pin when this plug is used in the rear compartment lock. There is a lot of grease in this lock that makes using The Determinator™ difficult.

**Codes: H12353P-H53425P**

**Blank: Ilco X59 (BMW2) or X144 (BMW3), Silca BW7BP**

**Spacing: 1=.106, 2=.189, 3=.272, 4=.354, 5=.437, 6=.520, 7=.602, 8=.685**

**Depths: 1=.327, 2=.303, 3=.280**

**HPC Card Number: XF33**

**ITL Number: 62**

**Tumbler locations: 1 2 3 4 5 6 7 8**

**Ignition: XXXXXXXX**

**Gas Cap: XXXXXX**


**Rear Compartment: XXXXXX**

**Ignition: 1-8**

**Gas Cap: 1-6**

**Rear Compartment: 1-6**



23. The ignition lock wafers from left to right are depths of 21313312 and are numbered per depth. These are different than the wafers in the other locks. However, you can buy service kits for the locks on this bike that include the plug, retainer, springs, and enough wafers to key the lock to any code. They are available from the parts department of BMW motorcycle dealers. 



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That's because a SELECT Hinge has lasted more than 10 million cycles (and counting) in an independent lab test on an FRP door. No more sagging, dragging, unattractive and hard-to-use doors.

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After.

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Our electronic lock family is the broadest in the industry. And it's built tough and designed to fit most any commercial-grade application you may encounter. But most important, they're all backed by the S&G customer service and support that's always there when you need it.

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electronic locks at  
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Circle 270 on Rapid Reply



**Author:** tsl ([asaplock@jvl.net](mailto:asaplock@jvl.net))

**Subject:** advertising what works?

I have started a new mobile locksmith business and it seems to be going rather slow. I am wondering if anyone can tell me what type of advertising works for them. I am strictly mobile and don't have a shop (too costly). So far this is what I have tried and the results.

I am in the Yellow Pages (this has resulted in only 2 calls in 2 weeks), I have done direct mail

ads to potential customers (3 jobs from about 300 mailed ads), and talked directly to the customers (10 or so jobs). Talking directly to the customers has worked the best, but it seems I've got the companies I am going to get. I tried expanding my advertising to other towns, with no results.

The clients I have worked for say they are very satisfied with my professionalism, appearance and work. If anyone has any ideas, please help, I need to pay the bills.

**Author:** Jack Conn ([lockshop6@aol.com](mailto:lockshop6@aol.com))

**Subject:** Memories...

Tsl, man, does your post bring back memories. 20 years ago or so I sat in that chair. There isn't a way you can make that phone ring, so relax. You seem to have covered all the bases pertaining to advertising, so give it some time.

If you continue to do quality work, you have a sure winner. Avoid at all costs the biggest mistake you can make. DO NOT lower your prices. It can get real tempting to undercut a competitor's price to get the work, but it will also be the biggest mistake of your life. Been there...done that.

Hang tough & good luck.

**Author:** Tom Lynch ([LynServe](mailto:LynServe))

**Subject:** You can do it!

Tsl, you have mentioned several things in your posting that are valid, however, you may want to redirect your focus.

To begin, the Yellow Pages are not profitable at this stage of your marketing push. It is a reactive form of advertisement that will not return your investment fast enough. A single bold line entry is sufficient. Utilizing your resources in a proactive manner will yield a higher response.

Secondly, focus solely on your services and your marketing, without concern of what the other companies are doing. I have reviewed other postings and see that many operate on an aggressive, arrogant and negative approach in dealing with both their services and marketing. Maintain an assertive, creative, problem solving program and you will make positive gains. There is a big difference between the two. If you focus on yourself, you will be able to achieve a set goal, if you worry about your competitor, your directing negative energy that will cause you to spin your wheels.

As a mobile operation, you are in a perfect situation to be profitable with little outlay and

# Open Forum

*Advertising and What Works*



you will be able to control your efforts with greater results. The first thing I suggest you do is to evaluate your competitor and discover what portion of the market is the weakest (automotive, residential, specialty hardware, safes, etc.) Then exploit that portion till you are the very best and market it hard. You will begin to obtain a foundation that will be overlooked by the competition, until they begin to recognize your growth and cash flow.

At that point (if they exemplify the negative qualities mentioned earlier) they will begin to try to reestablish what you have taken. This is good, because you have now caused them to focus their energies on you, rather than themselves. You will then have to be prepared to market another portion of the market that is important to your competitor. As you continue to karaoke step around the market in an assertive fashion, you will continue to grow at the expense of the competitors and gain valued market share.

When I began, I focused heavily on automotive and roadside service. I pushed the ceiling on this and it paid off, since everyone else was not skilled, or felt it was not worth it, like commercial or residential. It wasn't until I maintained steady growth and market share that the larger competitors took notice. Until then I was a typical negative comment.

When the commercial market stalled and I had cash flow from the auto service, then others wanted it and tried hard to reestablish their position. At that point I came around the back door and marketed creative programs for the commercial market. After obtaining some major accounts that the competitor now LOST, I was once again keeping the others worrying about my activities. Each time allowing me to surgically tap into neglected portions of this wonderful trade, without trying to compare myself to others.

While conducting all this, please maintain the attitude that your competitors are your contemporaries, and eventually you will be called upon as a resource for them and visa versa. Here are a few ideas to get started.

Contact NEBS printing and have door hangers made that state "Deadbolts Installed \$75", Lock It or Lose It!", include all your info and hit every home and condo community within a specific area that only has a knob-lock. Do this

on a Thursday. You may choose an Arrow deadbolt with a drive in bolt for speed of install. I consistently achieve a 10% response and schedule for Saturday installs.

Add a Lori cylinder and in many cases you will be able to upgrade the knob-lock. It is possible to achieve hundreds of dollars on a single day in a confined neighborhood. Offer a great deal on rekeys if paid in cash. Your offer must be appealing, and yes, it must be a discounted service or sale.

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The key is to get in the door and still profit handsomely by choosing the right products and upgrades.

Try to use a locksmith orientated keyway that will drive future business to you. Create a premium account status for those who have your keyway and tell them they are entitled to reduced service rates for as long as they maintain the system. This works great with commercial customers. Even if your competition begins to react by also buying into such a keyway, good, make them react and spend their resources.

Auto is easy, take your business card and stickers, advertising only "Auto Lockout Service" and visit every business in you area. Tell them you just unlocked a car outside their store for a customer and you wanted to make them aware of your services. Your sticker should say "Most cars opened \$35" also that cars are opened with no damage, 24/7. Try using artwork that has impact and is comical. Try to post

these stickers everywhere you can without getting into trouble.

Make deals with local carwashes, to help them for reduced rates, in exchange for services. Hit self-serve gas stations, hotels, beauty salons, barber shops etc. Notify all tow facilities and Police in writing that you will open cars for free, when a child is involved. The rate I quoted may or may not work in your area, the purpose is to generate calls in volume. Once you get these calls you must evaluate the type of vehicle you are being asked to service. Electric locks, window tint, auto relock, SIP Sys, prior attempts, all have a added charge on top of the base rate.

You will have to open "most" cars that are still out there without these features, but that will only last for period of time, until new models take over and by then you will have the ability to charge well. After a month, revisit these businesses with a different handout and continue this mercilessly. Try

to take every call that comes in and always have the auto keys in stock!

As you grow, you will have to create proposals and maintenance programs that will address "solutions" to your commercial customer problems. So often a locksmiths refusal to listen, leads to installations and sales of products that don't solve the problem the customer is having. Listen and react. Offer "preventative maintenance" programs where they prepay a specific amount that entitles them to a specific amount of service calls at no charge, with reduced labor if they install specific grade hardware.

Try to drive down their "time management and expenditures", while installing products that solve their problems. In the long run you will make more and "your" time management will be freed up to capture more accounts like this without concern of callbacks on low grade material. You are not lowering your prices, you are redirecting your sales approach in a proactive manner. If you only gain 10 customers of this type, at \$500 per year, that's \$5000.00 each year upfront to be invested in your growth or deposited to gain interest in you bank.

As time goes on you will work less due to the grade of hardware survival. I have operated like this for years and I've made more money on these type of accounts then any other, and no one can "draw them away".

Try to avoid office furniture cam lock jobs and antique hardware—it's not worth it. Refer all the bad jobs and difficult customers to your competition, let them spent time with these kinds of people. Sorry to be so long winded, I could cover more and I'm sure I've overlooked many other points, but I understand your position and I know that you can achieve and grow as a mobile operation if you try some of these approaches.

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- Remove Key Plug and replace ALL pins to Master-Key.
- Remove and Replace Shackles.



**Author: Wynn Kessler**  
(wynner5@ix.netcom.com)

Tom: Excellent dissertation pertaining to marketing. So good in fact, that it should be in my book, "Keys To Marketing Success" techniques that have produced proven results for myself and many others for many years. Published by Wynner Publications, 562-692-6063 (wynner5@ix.netcom.com)... sells for \$70.00, discounted to \$59.95 to Locksmiths on this site.

**Author: Garth Meredith**  
(merlock@connect.ab.ca)

**Subject: What works?**

I too have sat in your chair. In 1980 when I started, one of the things I found worked was (You'll excuse the horrible expression) COLD CALLS! It'll be the toughest thing you do, but if you've got no jobs, what have you got to lose? Go out to businesses in your town (I understand you've done this already) but with a little different approach. Don't try to convince the folks to switch to you right away, but explain to them that you're trying to get established, and if at any time the other locksmith is unavailable, ask them to try you.

Praise your opposition as professionals (if you know they are) but make it very clear to everyone that YOU are just as professional, as they will find out if they give you a try. Leave business cards everywhere you go and hand them out to everyone you meet, it's good inexpensive advertising. If the cost of professional printing is a problem, get Corell's Easy Business Card program for your computer, buy the blank cards from Staples, or Office Max, or wherever you shop, and print your own.

I wish you every success, but don't despair—if you do the best you can, the customers WILL come.

**Author: Phil Hight**  
(thekeysmith@bigfoot.com)

**Subject: Stay with it**


I agree with Garth Meredith, get out and make friends with your local businesses. Go in with a positive

attitude, look professional. Never push your services, and always stop back by and leave more cards. Go out to your local swap meet. Set up, cut keys, pass out more cards, be friendly. Go to every tow truck company and leave as many cards as possible. Give them a special rate to make keys to there Lien Sale Cars. This is the best place to practice new or old tricks.

That in itself has always helped me when business slows down. Remember, YOU ARE THE BEST in YOUR Field.

**Author: J McCord**  
(jmccord3@bellsouth.net)

**Subject: Super Way**

I am an older locksmith and have a little trick that will generate a lot of business for the least amount of expense. It is a business card holder that will disperse 25 cards at a time. This little holder can be pinned up on display boards. Magnetic holders can be affixed and placed on the back of metal cash registers. It works. 



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# BUSINESS BRIEFS

## **Camlock Systems Names Padjen General Manager**

Camlock Systems, Inc. has named Dale N. Padjen General Manager of their U.S. operations.



Padjen has over twenty years of experience in marketing security products to the vending, amusement, gaming and OEM markets. Camlock Systems is located in suburban Chicago and can be reached via email at [usasales@camlock.com](mailto:usasales@camlock.com).

## **Updated Templates for Adams Rite**

In keeping pace with emerging market trends and technology, Adams Rite has converted current product templates to Adobe PDF format and made them available for printing or download from their website at [www.adamsrite.com](http://www.adamsrite.com). Adams Rite has spent the last several months upgrading the website to help users easily navigate to templates, catalog pages, parts lists and installation instructions and plan to continue to develop its capabilities and functions

in the future. From the Adams Rite home page, the user simply clicks on the templates quick link tab located in the light green box in the lower left corner of the page. This will take the user directly to the categories of available templates, which include the 3000 Series Fire Rated Exit Devices, 8000 Series Life Safety Exit Devices, the RITE Door and Electric Strikes.

## **Medeco Web-Based Interactive Demo**

A free, online, interactive security demonstration helps security dealers explain high-security locks to customers. The Interactive Security Solutions demonstration at [www.medeco.com](http://www.medeco.com) uses three dimensional moving graphics and narration to show how keys, cylinders and pins interact in locks. The site's focus on locks for three distinct market segments—commercial, residential, and equipment—reflects Medeco's targeted audiences—business owners, homeowners, and original equipment manufacturers.

The site's commercial and residential specific sections offer a variety of features, including a brief security quiz to help owners assess their buildings' security risks, and a key program selector that customers can use to select the Medeco option that best suits their application.

## **DETEX Appoints Three New Jobs**

DETEX Corporation, Inc., a manufacturer of commercial life safety, security and security assurance products, has named Greg Drake as Director of Marketing and Sales. He is responsible for both Domestic and International Marketing and Sales.



DETEX has also announced that Paul Haeck has joined the company as the Engineering Manager. Paul is responsible for new product development and improvement/maintenance of existing product designs and overall management of the Engineering function.



DETEX has also named Tony Mudford as Vice President of Industry Affairs. Tony has been instrumental in the development of DETEX's international markets and has played an active high-level role in a variety of industry associations over his 27-year career at DETEX.

## **IR Acquisition of FX Technologies**

Ingersoll Rand has acquired the assets of FX Technologies. FX Tech. Provides one-source security systems integration solutions including consulting and database systems engineering for global corporations and other organizations with critical security requirements. FX Tech. will be integrated with IR's Electronic Technologies Corporation business unit, which operates in the USA as part of IR's Security and Safety Solutions.

With this acquisition IR has expanded its US sales and service branch network and enhanced their ability to serve established and prospective clients. **TNL**

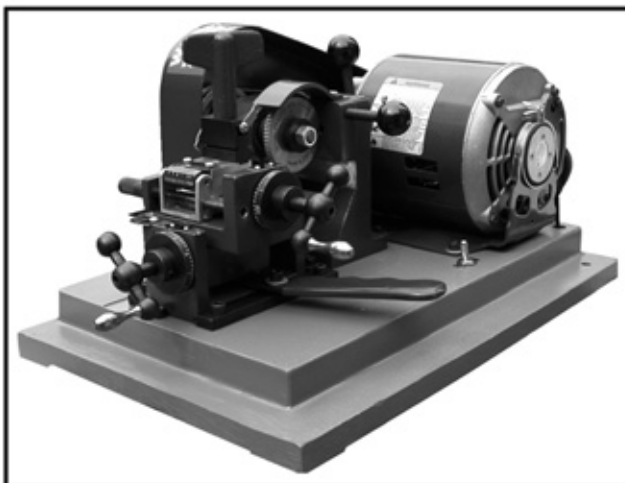


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We've been producing quality key machines since 1971. We know the business, and how to build a quality product. Take our #2 Code Machine for example—everything you need is supplied at time of purchase. We promise we won't keep digging in your pocket every year for more money. When new information comes out, visit our website & get it for free. Cutting a key by code? Shouldn't the key match up to the factory specifications instead of being "in the ballpark"? With one half-thousandth accuracy (.0005") in depth, the key you cut will be on the money. Send your customer away knowing he won't be back because the key doesn't work. If you're looking for a key machine, make us your first call...you won't be sorry later.

Visit Framon on the web at [www.framon.com](http://www.framon.com)—it's the on-line resource for Framon owners. Free updated depth & space information, key cutting tips, and our entire line of key machines, software, and locksmith tools. Stop by today!



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Chuck Jones, Wasilla, Alaska

"I have to say that Framon really does have the best customer service out there. You add that to a machine that lasts a lifetime and does all you need in the code dept and you just can't go wrong buying a Framon. It's a pleasure to deal with someone who treats you like they appreciate your business."

George Henderson

"I recently purchased a used Framon #2. It was not functioning properly when I got it, so I sent it in to Framon for repair. I e-mailed Framon to ask about servicing, and they responded in a quick and helpful manner each time.

The day it arrived at Framon (I tracked it), they called me from the repairs department. He was courteous and pointed out a few things that I was unaware of. He told me that he would ship it out the very same day. He even took the time to answer my limitless questions about it.

I am utterly impressed with this level of service. Their website mentioned a two-day turnaround time for repairs, but I didn't fully believe it. It is a great experience to actually find a company that lives up to their word."

Merlin Young

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Website: [www.framon.com](http://www.framon.com)

# KEY CODES

## Infiniti X1-X7000

**Manufacturer:** \_\_\_\_\_ Infiniti  
**Code Series:** \_\_\_\_\_ X1-X7000

**Key Blanks:**

**ILCO:** \_\_\_\_\_ X210, DA31,  
X123, DA25, X124, DA28, NSN11T2

**Jet:** \_\_\_\_\_ DA25,  
DA25-NP, DA31-NP

**Silca:** \_\_\_\_\_ NSN11, DAT13,  
DAT14, NSN11T2

**Number of Cuts:** \_\_\_\_\_ 8

**M.A.C.S.:** \_\_\_\_\_ 2

**Cut to Cut Spacings:** \_\_\_\_\_ .085

**Spacings:**

- 1 - .118
- 2 - .203
- 3 - .288
- 4 - .373
- 5 - .458
- 6 - .543
- 7 - .628
- 8 - .713

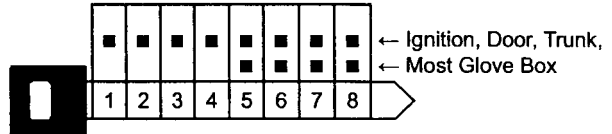
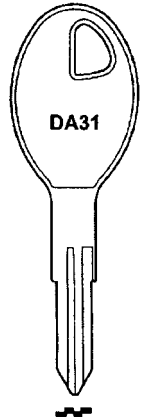
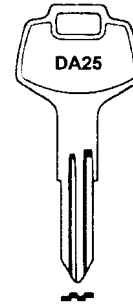
**HPC 1200Blitz**  
XF67

**ITL Mfg.**  
138

**Pak-A-Punch**  
PAK-N1

**Depths:**

- 1 = .276
- 2 = .256
- 3 = .236
- 4 = .217



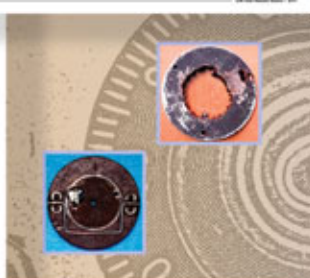
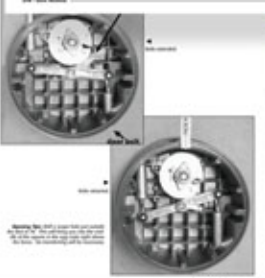
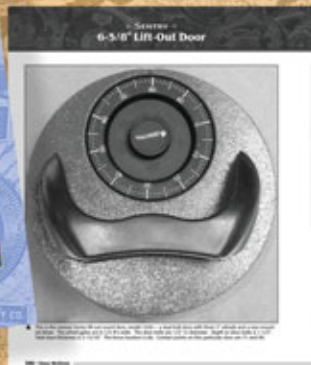
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X0003	43242232	X0041	32122112	X0079	24231123	X0117	13344223	X0155	43423231	X0193	33231213
X0004	23424333	X0042	32211243	X0080	21112344	X0118	12343313	X0156	42432344	X0194	33321231
X0005	23423244	X0043	32423424	X0081	43112133	X0119	13132242	X0157	44332424	X0195	22231132
X0006	32433342	X0044	32344321	X0082	31221243	X0120	31132231	X0158	13331113	X0196	22342124
X0007	21243111	X0045	31123442	X0083	32433234	X0121	33232111	X0159	42433433	X0197	33111221
X0008	42223432	X0046	21234231	X0084	31331344	X0122	44323224	X0160	22132121	X0198	13322434
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X0010	33422444	X0048	33242112	X0086	13343123	X0124	13443221	X0162	13344421	X0200	34421121
X0011	31133221	X0049	22434434	X0087	31322342	X0125	34344242	X0163	34233342	X0201	31324322
X0012	33242233	X0050	32432442	X0088	44233431	X0126	42223344	X0164	34224342	X0202	42332231
X0013	43312212	X0051	23344343	X0089	21112223	X0127	34424234	X0165	33243122	X0203	44213334
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X0015	33224233	X0053	13442231	X0091	24334244	X0129	23221123	X0167	33433442	X0205	32121133
X0016	33131221	X0054	31322221	X0092	31212243	X0130	22442132	X0168	22421113	X0206	34234433
X0017	11132424	X0055	23433212	X0093	11133124	X0131	31342234	X0169	13123244	X0207	32112133
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X0038	13423124	X0076	12232233	X0114	12224333	X0152	21112423	X0190	33424332	X0228	22434311



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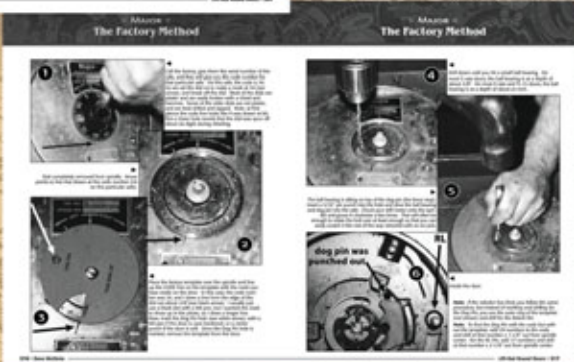
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# Infiniti X1-X7000

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X0661	42134242	X0723	43243213	X0785	22231231
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X0812	34322112	X0874	44221313	X0936	44232344	X0998	42243313	X1060	11334312	X1122	32244333
X0813	13132132	X0875	24421113	X0937	11243432	X0999	43113431	X1061	23444234	X1123	13113322
X0814	43112342	X0876	13334442	X0938	44323244	X1000	44234421	X1062	23324213	X1124	44333111
X0815	44242334	X0877	31334422	X0939	13244231	X1001	21321234	X1063	42243221	X1125	42124423
X0816	13322124	X0878	33122342	X0940	43312243	X1002	31223434	X1064	22312321	X1126	31234423
X0817	13423113	X0879	24434331	X0941	43232242	X1003	21243343	X1065	12123324	X1127	12423424
X0818	42234423	X0880	34234211	X0942	42123334	X1004	23113444	X1066	31331232	X1128	42343343
X0819	21331321	X0881	44231233	X0943	42334442	X1005	43223442	X1067	34331312	X1129	33243124
X0820	12224421	X0882	12423334	X0944	42231211	X1006	42332211	X1068	21243233	X1130	22124333
X0821	12442221	X0883	31312424	X0945	13233231	X1007	31243324	X1069	34434321	X1131	12321344
X0822	42333423	X0884	21343124	X0946	43133132	X1008	21213423	X1070	12442234	X1132	34213324
X0823	33113432	X0885	44211242	X0947	44342221	X1009	32124343	X1071	22234243	X1133	34443213
X0824	12322424	X0886	22444213	X0948	13234432	X1010	32233131	X1072	11244312	X1134	24333113
X0825	42324423	X0887	43433223	X0949	43423211	X1011	43113312	X1073	43212444	X1135	23132113
X0826	32443431	X0888	32223343	X0950	22121132	X1012	43243321	X1074	42121134	X1136	31242233
X0827	22342423	X0889	23423444	X0951	44311333	X1013	12431324	X1075	24324344	X1137	43112344
X0828	11311324	X0890	12312322	X0952	32124431	X1014	11213442	X1076	42312431	X1138	23342123
X0829	13442332	X0891	31342232	X0953	22112132	X1015	21123423	X1077	12424311	X1139	33122322
X0830	34442133	X0892	12244342	X0954	21344244	X1016	42324311	X1078	42112134	X1140	12313421
X0831	23324424	X0893	42113344	X0955	24244334	X1017	31224244	X1079	34221231	X1141	31224233
X0832	43423213	X0894	22131234	X0956	42442123	X1018	31332224	X1080	13243232	X1142	43112223
X0833	12231243	X0895	22442233	X0957	43312311	X1019	22432113	X1081	23131244	X1143	12333442
X0834	11233442	X0896	31332111	X0958	11244242	X1020	22431213	X1082	24321224	X1144	12434433
X0835	22433213	X0897	32422421	X0959	22312213	X1021	33324443	X1083	24342221	X1145	13422343
X0836	11343242	X0898	43113224	X0960	22344234	X1022	12312423	X1084	34224313	X1146	21331211
X0837	33123123	X0899	11342421	X0961	24332321	X1023	11334431	X1085	31244323	X1147	13432432
X0838	43324424	X0900	21122433	X0962	32243134	X1024	32221332	X1086	12422331	X1148	11122243
X0839	13434434	X0901	12344222	X0963	32442313	X1025	31122344	X1087	22134334	X1149	12431321
X0840	24442323	X0902	32213434	X0964	31321334	X1026	32321122	X1088	42442132	X1150	21131224
X0841	22322443	X0903	44311133	X0965	12113222	X1027	43113442	X1089	11321343	X1151	12332223
X0842	22344311	X0904	44231244	X0966	11213242	X1028	11342333	X1090	22421342	X1152	33244224
X0843	42313311	X0905	44213244	X0967	31122322	X1029	23131231	X1091	12223433	X1153	44223432
X0844	42242233	X0906	42233444	X0968	21122231	X1030	44211222	X1092	34442111	X1154	11343244
X0845	22231244	X0907	21113321	X0969	31132224	X1031	22123321	X1093	42233134	X1155	21224423
X0846	13421243	X0908	42323121	X0970	12244232	X1032	42112244	X1094	11234434	X1156	34421213
X0847	43124332	X0909	23424423	X0971	12213232	X1033	12123342	X1095	42224442	X1157	23223134
X0848	32444324	X0910	31311344	X0972	34213434	X1034	31233431	X1096	32442443	X1158	43422124



# Infiniti X1-X7000

X1159	43132122	X1221	12112333	X1283	43133224
X1160	43121243	X1222	12133431	X1284	12212433
X1161	34311132	X1223	23111233	X1285	33111243
X1162	13313322	X1224	22421331	X1286	44213123
X1163	43331132	X1225	31331212	X1287	44331322
X1164	34321221	X1226	33134424	X1288	21233212
X1165	23132234	X1227	12423332	X1289	13424433
X1166	44243133	X1228	12224324	X1290	11324432
X1167	12342312	X1229	34311211	X1291	43122233
X1168	13312112	X1230	33133111	X1292	32112344
X1169	11332112	X1231	23134443	X1293	34212334
X1170	11332244	X1232	31212211	X1294	34312234
X1171	42333113	X1233	42221324	X1295	22443344
X1172	33124324	X1234	42312224	X1296	43113233
X1173	11333212	X1235	33442242	X1297	42311324
X1174	21332432	X1236	34332223	X1298	44332112
X1175	23113213	X1237	22112332	X1299	22433132
X1176	32131222	X1238	42231321	X1300	44223344
X1177	22442213	X1239	12334423	X1301	44332244
X1178	32332421	X1240	43233421	X1302	11312331
X1179	11342212	X1241	21334311	X1303	32233221
X1180	23443433	X1242	24324331	X1304	31232432
X1181	21131123	X1243	21223233	X1305	23223244
X1182	32244243	X1244	11244332	X1306	23342224
X1183	12323423	X1245	31222444	X1307	23423343
X1184	34442333	X1246	32434321	X1308	32112223
X1185	11211323	X1247	23313213	X1309	42123332
X1186	12133242	X1248	22431121	X1310	32221123
X1187	23233113	X1249	24443133	X1311	22342243
X1188	33212212	X1250	21244311	X1312	22333243
X1189	11343112	X1251	11312213	X1313	11213244
X1190	11322333	X1252	43112124	X1314	23134243
X1191	23331134	X1253	42312132	X1315	43312124
X1192	32233122	X1254	23323113	X1316	23113211
X1193	22422334	X1255	43121124	X1317	33344223
X1194	32423321	X1256	44331124	X1318	24243131
X1195	24223331	X1257	44421234	X1319	31113322
X1196	33221322	X1258	13123334	X1320	32443213
X1197	42231123	X1259	24221342	X1321	42134231
X1198	23332243	X1260	24312242	X1322	22123123
X1199	31112332	X1261	32332443	X1323	32311224
X1200	34223134	X1262	43323113	X1324	43342244
X1201	13324331	X1263	44433224	X1325	34232112
X1202	13342331	X1264	43332432	X1326	34223244
X1203	23342332	X1265	24233424	X1327	12443422
X1204	24224244	X1266	23123221	X1328	32432233
X1205	33244244	X1267	32342231	X1329	23322123
X1206	23324332	X1268	11243421	X1330	12134423
X1207	21124244	X1269	13211332	X1331	11321313
X1208	32243231	X1270	32133132	X1332	13344311
X1209	13321132	X1271	42333212	X1333	12124343
X1210	23344323	X1272	43122121	X1334	21113334
X1211	12213434	X1273	32344213	X1335	44321134
X1212	11342344	X1274	13322421	X1336	44311344
X1213	32433111	X1275	24333342	X1337	11321123
X1214	31321312	X1276	43423332	X1338	23322442
X1215	42242433	X1277	44243232	X1339	32131231
X1216	33113342	X1278	12443334	X1340	12321131
X1217	42344324	X1279	23442113	X1341	43331242
X1218	33122344	X1280	22424424	X1342	42322421
X1219	44322432	X1281	23113424	X1343	13321213
X1220	43112423	X1282	32222443	X1344	23112243

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X1345	24342234	X1407	42242442	X1469	12132432	X1531	13113232	X1560	44312343	X1589	31344221
X1346	11234221	X1408	22312433	X1470	13223322	X1532	22313324	X1561	13133113	X1590	42324342
X1347	42311122	X1409	42442242	X1471	12434233	X1533	44423131	X1562	24344342	X1591	13312134
X1348	34212132	X1410	23323311	X1472	44224334	X1534	44432421	X1563	32433421	X1592	13113423
X1349	42244231	X1411	31221122	X1473	34342224	X1535	32123432	X1564	31324342	X1593	32321124
X1350	32111323	X1412	44423432	X1474	23333121	X1536	32243323	X1565	21244313	X1594	22233334
X1351	42432432	X1413	12223112	X1475	22113443	X1537	32334223	X1566	33422334	X1595	42243122
X1352	32311123	X1414	44421122	X1476	31221313	X1538	33422323	X1567	43211311	X1596	23313222
X1353	32112423	X1415	43321122	X1477	31312213	X1539	43313123	X1568	21334432	X1597	21124442
X1354	13423443	X1416	21223431	X1478	32424331	X1540	42112123	X1569	44212212	X1598	31243432
X1355	23424221	X1417	12312313	X1479	13424334	X1541	43123421	X1570	21121223	X1599	32134223
X1356	32421123	X1418	22423324	X1480	23221134	X1542	13433231	X1571	43442421	X1600	34422223
X1357	34342123	X1419	31123334	X1481	32123122	X1543	21343421	X1572	34234222	X1601	43212343
X1358	24211343	X1420	32443211	X1482	33113322	X1544	13233431	X1573	32332234	X1602	13332444
X1359	33121244	X1421	22332424	X1483	43211342	X1545	23433232	X1574	32133224	X1603	32243123
X1360	11321321	X1422	22113421	X1484	21224234	X1546	33231224	X1575	22133423	X1604	12234442
X1361	31221324	X1423	12122442	X1485	44223243	X1547	43123243	X1576	24243221	X1605	13321311
X1362	24224233	X1424	12313242	X1486	22432423	X1548	12442243	X1577	32134342	X1606	21312333
X1363	42221313	X1425	24233444	X1487	43213221	X1549	34331132	X1578	22312424	X1607	32224344
X1364	43222111	X1426	21134221	X1488	33422424	X1550	23233432	X1579	32432134	X1608	12113444
X1365	44324432	X1427	22133133	X1489	24322131	X1551	11122133	X1580	32332122	X1609	33244343
X1366	44342113	X1428	13422244	X1490	33224213	X1552	12342211	X1581	23324231	X1610	42323321
X1367	13342322	X1429	21231342	X1491	33223423	X1553	12234233	X1582	42134321	X1611	24224213
X1368	42343242	X1430	42433112	X1492	24342113	X1554	43311312	X1583	33242433	X1612	13423234
X1369	21124233	X1431	23211331	X1493	32432121	X1555	24223324	X1584	42344212	X1613	21132113
X1370	31122122	X1432	24323123	X1494	13312231	X1556	43211223	X1585	33424233	X1614	24333223
X1371	31322443	X1433	33424422	X1495	22333423	X1557	24443311	X1586	34423323	X1615	24423344
X1372	42134431	X1434	12434211	X1496	21322433	X1558	33422231	X1587	24313324	X1616	43344222
X1373	32442221	X1435	43211234	X1497	13221331	X1559	12431243	X1588	42131133	X1617	12432224
X1374	23442324	X1436	44224422	X1498	13112321						
X1375	24211224	X1437	42312312	X1499	12321113						
X1376	21344312	X1438	13442422	X1500	24422332						
X1377	13443311	X1439	23431113	X1501	32431342						
X1378	23132423	X1440	24312422	X1502	33123121						
X1379	32322433	X1441	33211211	X1503	33242213						
X1380	32112124	X1442	34211133	X1504	44231332						
X1381	13221342	X1443	34424423	X1505	12133121						
X1382	44221124	X1444	21122444	X1506	12243211						
X1383	42123431	X1445	12334324	X1507	32111231						
X1384	12344334	X1446	22231332	X1508	12312243						
X1385	24221331	X1447	13134233	X1509	12432123						
X1386	34234321	X1448	22344243	X1510	12333312						
X1387	24332233	X1449	13344234	X1511	22321121						
X1388	11224321	X1450	33121121	X1512	34423224						
X1389	43233234	X1451	23133422	X1513	34211342						
X1390	12442223	X1452	43342231	X1514	13243324						
X1391	13323422	X1453	33123211	X1515	12312311						
X1392	34312344	X1454	23421334	X1516	34224234						
X1393	42111333	X1455	12322123	X1517	12433232						
X1394	34212442	X1456	24434221	X1518	24243313						
X1395	23124311	X1457	43123322	X1519	21122123						
X1396	32332131	X1458	12322442	X1520	33212443						
X1397	22344344	X1459	23344244	X1521	31242433						
X1398	12243213	X1460	32344431	X1522	32134432						
X1399	13423322	X1461	24331344	X1523	12133244						
X1400	33111232	X1462	31124331	X1524	21313311						
X1401	13433121	X1463	12423112	X1525	21344332						
X1402	32211331	X1464	32432242	X1526	43134421						
X1403	12213324	X1465	32212312	X1527	34244223						
X1404	34342332	X1466	13313124	X1528	23423312						
X1405	33433222	X1467	32243433	X1529	24422343						
X1406	23321122	X1468	44311324	X1530	44311122						

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X1618	34344213	X1647	23311123	X1676	32311332	X1705	22332132	X1767	32332342	X1829	22311333
X1619	22134233	X1648	22134422	X1677	23122121	X1706	23233443	X1768	34344233	X1830	23344312
X1620	34442122	X1649	33423243	X1678	13444213	X1707	23112324	X1769	31212434	X1831	13344344
X1621	31211334	X1650	22443122	X1679	32322134	X1708	11242334	X1770	43113132	X1832	33132422
X1622	33434223	X1651	34422434	X1680	43433212	X1709	31244312	X1771	12123122	X1833	11312424
X1623	11242431	X1652	13123431	X1681	21231322	X1710	44331331	X1772	42112334	X1834	32312344
X1624	13434223	X1653	33434421	X1682	31113232	X1711	11221124	X1773	24333243	X1835	32244421
X1625	42213213	X1654	44342243	X1683	34233122	X1712	21123221	X1774	31132244	X1836	34422313
X1626	13132112	X1655	33432131	X1684	12211331	X1713	42133223	X1775	24342243	X1837	32342323
X1627	24342223	X1656	13432131	X1685	31242442	X1714	31123332	X1776	13112422	X1838	34424221
X1628	44322111	X1657	34421231	X1686	24344333	X1715	23343113	X1777	31212313	X1839	44223331
X1629	12442313	X1658	22423434	X1687	42342331	X1716	21332322	X1778	12113213	X1840	32324323
X1630	24332444	X1659	11234342	X1688	13224424	X1717	21313224	X1779	13122324	X1841	22313212
X1631	44344223	X1660	21211331	X1689	31243344	X1718	42111344	X1780	31321213	X1842	43431212
X1632	42211231	X1661	21323223	X1690	42133344	X1719	42243234	X1781	23133444	X1843	13311221
X1633	42222343	X1662	23244223	X1691	21132322	X1720	13122124	X1782	43223123	X1844	44211213
X1634	42423421	X1663	22243313	X1692	33442334	X1721	21323322	X1783	33234434	X1845	32423442
X1635	13422134	X1664	23343221	X1693	11343422	X1722	33222442	X1784	23422133	X1846	34213122
X1636	24322113	X1665	23313321	X1694	42343112	X1723	42234234	X1785	22311133	X1847	22323112
X1637	34231342	X1666	13432133	X1695	23122233	X1724	33433422	X1786	34422331	X1848	42332112
X1638	32243442	X1667	21112331	X1696	43244421	X1725	31231213	X1787	13212331	X1849	33444222
X1639	13211132	X1668	23121124	X1697	24432443	X1726	43221213	X1788	23342433	X1850	24323224
X1640	33424312	X1669	42243342	X1698	13422422	X1727	13433422	X1789	31123431	X1851	11244321
X1641	42213343	X1670	34421233	X1699	31133113	X1728	31213213	X1790	42443131	X1852	42442233
X1642	12243321	X1671	22113223	X1700	32234334	X1729	44211132	X1791	33223311	X1853	13112231
X1643	12334221	X1672	31321132	X1701	32242432	X1730	11122443	X1792	11233123	X1854	23323421
X1644	32324422	X1673	11222433	X1702	43334223	X1731	11333243	X1793	13321231	X1855	33113232
X1645	44324421	X1674	44331131	X1703	12124424	X1732	42132444	X1794	34232433	X1856	44212443
X1646	24432421	X1675	44343222	X1704	33121134	X1733	42211312	X1795	21322134	X1857	44331311
						X1734	32113134	X1796	11334224	X1858	11343123
						X1735	22133434	X1797	22132244	X1859	42233132
						X1736	34242311	X1798	12244234	X1860	12312133
						X1737	24244343	X1799	33133221	X1861	23334243
						X1738	13211213	X1800	31134424	X1862	13113133
						X1739	31113423	X1801	22444231	X1863	32322444
						X1740	11222233	X1802	31124221	X1864	43423132
						X1741	34322211	X1803	21132423	X1865	12113424
						X1742	33312431	X1804	23322244	X1866	11334433
						X1743	24221131	X1805	42112224	X1867	13221131
						X1744	34321122	X1806	42221124	X1868	23123322
						X1745	22213334	X1807	42432131	X1869	43323421
						X1746	12212312	X1808	43432233	X1870	42121332
						X1747	12312212	X1809	43322244	X1871	13222312
						X1748	12442443	X1810	12134213	X1872	11231334
						X1749	31213343	X1811	13321233	X1873	32331222
						X1750	33344232	X1812	12442232	X1874	44223313
						X1751	22134242	X1813	32443422	X1875	43443134
						X1752	24344223	X1814	33443122	X1876	11342234
						X1753	43433432	X1815	13123444	X1877	12342242
						X1754	44212333	X1816	43213342	X1878	23443312
						X1755	32224331	X1817	21311343	X1879	43134434
						X1756	42212243	X1818	34423431	X1880	12333242
						X1757	33121334	X1819	33432122	X1881	33124234
						X1758	22442134	X1820	42342322	X1882	22323444
						X1759	22343323	X1821	32432424	X1883	42133243
						X1760	21244344	X1822	42343222	X1884	32132324
						X1761	32132223	X1823	43422322	X1885	42133421
						X1762	32223123	X1824	43443112	X1886	43443321
						X1763	31124434	X1825	12312124	X1887	42423342
						X1764	32431133	X1826	13444233	X1888	44221342
						X1765	24422244	X1827	33424213	X1889	13344243
						X1766	43122422	X1828	23211234	X1890	23113123

**THE AXION EQUATION**

# GREATER PROFIT.

**ALUMINUM SOLUTION**

3258



3458





**AXION**  
PREMIUM ELECTRIC STRIKES

You can install more of our AXION 3000 series strikes in a day than other strikes but there is more to it than just saving time! By cutting less of the frame, we give you a much stronger installation. Add to that our 1" backset and now you don't have to remove the dust box and concrete, which makes the frame even stronger! When you're finished with installation you will notice the final benefit: the best looking strike installation available. Ask yourself – isn't it time to try AXION?

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# Infiniti

## X1-X7000

X1891	31243421	X1953	43122134	X2015	21331334	X2077	13312323	X2139	22444334	X2201	42423434
X1892	12112234	X1954	24433433	X2016	24423423	X2078	31122313	X2140	31232434	X2202	22334424
X1893	31312433	X1955	34422311	X2017	42113221	X2079	12134243	X2141	23443233	X2203	23133242
X1894	22323312	X1956	12342321	X2018	34324321	X2080	31322113	X2142	33121224	X2204	21324213
X1895	13421312	X1957	23223321	X2019	32331134	X2081	43123434	X2143	32212433	X2205	42223342
X1896	43234224	X1958	13424211	X2020	33432434	X2082	21213342	X2144	22233112	X2206	42343422
X1897	34322332	X1959	44342232	X2021	42432122	X2083	43432134	X2145	32322424	X2207	42134433
X1898	23234224	X1960	23123421	X2022	13432434	X2084	22213332	X2146	43442342	X2208	13323442
X1899	22332312	X1961	44213323	X2023	33224431	X2085	44312422	X2147	32231243	X2209	32212231
X1900	11234421	X1962	12324321	X2024	23421123	X2086	12342422	X2148	21344321	X2210	43442111
X1901	43243224	X1963	23123243	X2025	44221331	X2087	22431132	X2149	22433211	X2211	23432211
X1902	31332424	X1964	21321344	X2026	21333222	X2088	24342232	X2150	21321131	X2212	42344322
X1903	44312242	X1965	23211223	X2027	44333124	X2089	32234244	X2151	22322313	X2213	21313343
X1904	43422344	X1966	43432242	X2028	12333213	X2090	24243122	X2152	33421131	X2214	44231242
X1905	21233342	X1967	34223132	X2029	33213242	X2091	24234243	X2153	21343223	X2215	24423331
X1906	13224343	X1968	13211242	X2030	12344211	X2092	33122421	X2154	12231133	X2216	22311344
X1907	32123342	X1969	12234321	X2031	31131133	X2093	44344232	X2155	34322233	X2217	21233331
X1908	24313212	X1970	11133312	X2032	24334233	X2094	24442112	X2156	43423422	X2218	11223124
X1909	42331344	X1971	12343221	X2033	34312232	X2095	33422442	X2157	21132331	X2219	24322313
X1910	44433112	X1972	13231224	X2034	34211122	X2096	12434222	X2158	12344343	X2220	31332132
X1911	13423223	X1973	24331113	X2035	43342323	X2097	13243432	X2159	233432124	X2221	13312442
X1912	34244342	X1974	24333423	X2036	12133123	X2098	22443223	X2160	31223322	X2222	34231243
X1913	32431113	X1975	21133222	X2037	33234221	X2099	32233324	X2161	44244222	X2223	21312434
X1914	33231211	X1976	31222233	X2038	13312123	X2100	43213322	X2162	31112424	X2224	34213243
X1915	33312132	X1977	31312233	X2039	22432124	X2101	33442132	X2163	24424332	X2225	21224331
X1916	31322131	X1978	13443234	X2040	12343113	X2102	33312312	X2164	32213243	X2226	24323424
X1917	24221113	X1979	34244232	X2041	23311332	X2103	22234434	X2165	24443234	X2227	32431234
X1918	21122332	X1980	43443121	X2042	13221113	X2104	31212432	X2166	12313323	X2228	22233211
X1919	32222331	X1981	31112433	X2043	31234234	X2105	32433124	X2167	22213431	X2229	43221231
X1920	32432334	X1982	13443113	X2044	33213431	X2106	12213122	X2168	13421133	X2230	32332311
X1921	23224342	X1983	33224231	X2045	24442231	X2107	22122313	X2169	24443113	X2231	22433244
X1922	44232212	X1984	34223321	X2046	43243211	X2108	13433444	X2170	43132131	X2232	24442121
X1923	42313344	X1985	43442322	X2047	13424424	X2109	44243113	X2171	33423311	X2233	23133431
X1924	13433123	X1986	24313311	X2048	12443343	X2110	33421324	X2172	34233232	X2234	23334443
X1925	34322343	X1987	24334211	X2049	21332434	X2111	32234433	X2173	12132342	X2235	12244333
X1926	43442131	X1988	44242231	X2050	23111224	X2112	33221243	X2174	24322331	X2236	44423322
X1927	43121333	X1989	33222343	X2051	43222234	X2113	24213213	X2175	42433222	X2237	24344232
X1928	42334321	X1990	12422421	X2052	43311211	X2114	43332434	X2176	32312122	X2238	13122432
X1929	21342442	X1991	23211311	X2053	34334243	X2115	31213222	X2177	43132133	X2239	23324224
X1930	13243113	X1992	22342313	X2054	43121322	X2116	22233213	X2178	24243342	X2240	34434332
X1931	33113423	X1993	44323323	X2055	44432113	X2117	23424322	X2179	24334242	X2241	21112243
X1932	31224231	X1994	23322321	X2056	44221312	X2118	43423334	X2180	43421233	X2242	33421313
X1933	11223322	X1995	44222334	X2057	34243343	X2119	44232111	X2181	13112442	X2243	44321121
X1934	21343344	X1996	23342442	X2058	11331234	X2120	23121344	X2182	32233423	X2244	13213213
X1935	12443224	X1997	43432121	X2059	33322324	X2121	43124433	X2183	24432113	X2245	12442124
X1936	32211212	X1998	23443244	X2060	32442243	X2122	33133124	X2184	44331243	X2246	24243234
X1937	23132232	X1999	42223443	X2061	21133321	X2123	21133231	X2185	32433223	X2247	33221122
X1938	42332424	X2000	21322444	X2062	42323422	X2124	33312444	X2186	12231331	X2248	34324334
X1939	23223132	X2001	24422134	X2063	23244342	X2125	33212243	X2187	43231243	X2249	12434231
X1940	11333423	X2002	43321221	X2064	22132213	X2126	32322431	X2188	11324221	X2250	12211223
X1941	42423324	X2003	43124211	X2065	42122421	X2127	24224231	X2189	23231243	X2251	11122333
X1942	32421334	X2004	44224233	X2066	42131243	X2128	12211234	X2190	12324334	X2252	44313324
X1943	43442133	X2005	23344332	X2067	34232334	X2129	12322321	X2191	33221324	X2253	44211321
X1944	22342432	X2006	22334244	X2068	24311221	X2130	12423422	X2192	32421312	X2254	43244311
X1945	22123121	X2007	12134443	X2069	21224344	X2131	12334344	X2193	11342223	X2255	43221233
X1946	31221124	X2008	42132123	X2070	42234232	X2132	21124231	X2194	22233312	X2256	42332132
X1947	33433424	X2009	33113212	X2071	44423124	X2133	24213343	X2195	12311343	X2257	21343121
X1948	23312443	X2010	43311132	X2072	44311124	X2134	23244232	X2196	11222444	X2258	43433243
X1949	21333123	X2011	22112433	X2073	12443211	X2135	42313243	X2197	42432434	X2259	32312331
X1950	43321124	X2012	22333324	X2074	44322434	X2136	13124333	X2198	13243344	X2260	23113422
X1951	42233231	X2013	13243212	X2075	33213442	X2137	22113324	X2199	21332331	X2261	13213343
X1952	21122343	X2014	31312244	X2076	11334334	X2138	33423111	X2200	22213442	X2262	13324234



# Infiniti X1-X7000

X2263	23331222	X2325	11322324	X2387	43432424
X2264	34224331	X2326	12231113	X2388	33113113
X2265	23322112	X2327	43124312	X2389	24424233
X2266	13343312	X2328	23424324	X2390	44342313
X2267	33232131	X2329	34423121	X2391	31121343
X2268	44331324	X2330	33222213	X2392	34432312
X2269	23422443	X2331	42322423	X2393	24233132
X2270	43324213	X2332	33421223	X2394	13132231
X2271	43311343	X2333	11344322	X2395	13223131
X2272	34234242	X2334	33221313	X2396	23131242
X2273	44432221	X2335	34212244	X2397	12331334
X2274	23243431	X2336	32243332	X2398	42122344
X2275	31213311	X2337	21321113	X2399	44343242
X2276	32442311	X2338	42242213	X2400	32243242
X2277	11221342	X2339	24312334	X2401	23213423
X2278	12323342	X2340	11212344	X2402	42343123
X2279	34331213	X2341	33421113	X2403	33111344
X2280	42323424	X2342	24322311	X2404	12323124
X2281	23213342	X2343	32223312	X2405	12322112
X2282	42432324	X2344	22343213	X2406	11332131
X2283	11233224	X2345	23433221	X2407	12224342
X2284	21231223	X2346	12132434	X2408	31211332
X2285	42224323	X2347	34423244	X2409	31234232
X2286	21322424	X2348	21342332	X2410	43233113
X2287	44324221	X2349	44233233	X2411	23331231
X2288	12342431	X2350	31311221	X2412	11221331
X2289	32213324	X2351	44312323	X2413	23221121
X2290	21231113	X2352	11213323	X2414	34224423
X2291	42422442	X2353	13133234	X2415	42111234
X2292	34433311	X2354	23133213	X2416	34431232
X2293	12212332	X2355	22243342	X2417	21124321
X2294	33443223	X2356	33242431	X2418	22134231
X2295	23112113	X2357	21321311	X2419	13234243
X2296	21342123	X2358	42131223	X2420	43324332
X2297	23312221	X2359	42431222	X2421	33113122
X2298	24324234	X2360	33124342	X2422	32434332
X2299	33124432	X2361	21324332	X2423	32121344
X2300	34212233	X2362	24231121	X2424	32244311
X2301	23113433	X2363	32111224	X2425	22243234
X2302	31321231	X2364	31344342	X2426	32132221
X2303	21313442	X2365	42212443	X2427	21342224
X2304	32122442	X2366	33432432	X2428	13243421
X2305	22344423	X2367	21213322	X2429	12431124
X2306	12244243	X2368	12242311	X2430	23112333
X2307	34221233	X2369	13313221	X2431	21132232
X2308	44323442	X2370	13343442	X2432	44431222
X2309	22423421	X2371	33424231	X2433	24333212
X2310	24321323	X2372	22311324	X2434	31332312
X2311	43121131	X2373	22344313	X2435	22111322
X2312	12233421	X2374	21123322	X2436	33213321
X2313	32344433	X2375	33213244	X2437	22311122
X2314	12433221	X2376	43223312	X2438	32223121
X2315	21334232	X2377	44333311	X2439	44213312
X2316	24343343	X2378	21134342	X2440	12334322
X2317	21134432	X2379	32221121	X2441	33311344
X2318	21231311	X2380	31231312	X2442	11213221
X2319	22233244	X2381	43423424	X2443	11133324
X2320	34443224	X2382	22431224	X2444	23223433
X2321	33432243	X2383	32442232	X2445	31223124
X2322	31321233	X2384	11122213	X2446	24424312
X2323	13432243	X2385	32233434	X2447	24331232
X2324	42313423	X2386	42221342	X2448	33242334

## Competitor Trade-In Program

### 1 MONTH ONLY!

If you are the owner of a blue key programmer called Sdd and would like to trade it in to get a T-Code, now is the time to do so.

## JULY 2004



- Supply us with your receipts for the unit along with any software you may have purchased.
- We will trade you for a T-Code with comparable software. • Cost is \$800 + shipping. • You must be the legal owner of the unit and sign a release when you present your full kit to us for a trade-in to T-Code.

- See us at ALOA for more details or call us @ Tel: 650-616-1941 • Trade-in program to be administered by T-Code Tech Support.

- Supply is limited. • Trade-in program is void where prohibited.

- Any taxes owed because of this offer is the responsibility of the trade-in client. • T-Code Tech Support reserves the right to refuse this offer to anyone.

- C.A.N. system is built in. No external unit. • Largest support for key & remote programming. • Easy to use interface. • Comprehensive User's Manual that is Easy to use and well written. Some Software may require additional purchase, for specific details contact T-Code Tech Support.

**T-Code is the leader in the U.S. and around the world.**



Circle 283 on Rapid Reply

# Infiniti

## X1-X7000

X2449	21343324	X2511	33243322	X2573	31132334	X2635	21324312	X2697	12332122	X2759	43233432
X2450	12222344	X2512	42211224	X2574	12243224	X2636	31221331	X2698	11321134	X2760	44343112
X2451	21123421	X2513	23431221	X2575	34431212	X2637	43223233	X2699	22312233	X2761	32334311
X2452	22343211	X2514	24231334	X2576	42333324	X2638	31221221	X2700	24431231	X2762	32424432
X2453	13424321	X2515	31342313	X2577	43131121	X2639	21124334	X2701	43324312	X2763	33122122
X2454	12432244	X2516	24223443	X2578	24423324	X2640	34311343	X2702	43443132	X2764	34332122
X2455	44224321	X2517	42221331	X2579	23421311	X2641	31242213	X2703	12432444	X2765	21133442
X2456	12233234	X2518	43312342	X2580	34344231	X2642	33344234	X2704	33132442	X2766	13124443
X2457	21123243	X2519	13423313	X2581	43123313	X2643	31121321	X2705	23313444	X2767	12213223
X2458	13443243	X2520	31324313	X2582	31344223	X2644	33234421	X2706	22134321	X2768	34432211
X2459	13321332	X2521	34231223	X2583	22423342	X2645	43243134	X2707	31222431	X2769	43442122
X2460	42332312	X2522	24244224	X2584	43211124	X2646	11244233	X2708	24334222	X2770	42433424
X2461	34443211	X2523	21221233	X2585	24433224	X2647	31224213	X2709	22234342	X2771	24211134
X2462	43223121	X2524	13132424	X2586	32131244	X2648	12342134	X2710	24311331	X2772	44311221
X2463	42331113	X2525	33344311	X2587	33311324	X2649	24231231	X2711	23342312	X2773	42334424
X2464	43422243	X2526	33431211	X2588	34212112	X2650	43134234	X2712	11334442	X2774	42443324
X2465	33223234	X2527	43124343	X2589	42322324	X2651	22322133	X2713	43423112	X2775	42123444
X2466	31342432	X2528	32312232	X2590	22331344	X2652	12334223	X2714	23443134	X2776	34213311
X2467	11342124	X2529	23133121	X2591	33433121	X2653	33321211	X2715	24321343	X2777	42134332
X2468	12313424	X2530	24234342	X2592	12321333	X2654	33311122	X2716	11342132	X2778	23223112
X2469	24434421	X2531	24343242	X2593	43244313	X2655	12433344	X2717	22443313	X2779	43344211
X2470	24233231	X2532	43322123	X2594	43243112	X2656	12313312	X2718	24322133	X2780	44324333
X2471	22342133	X2533	44432423	X2595	32443343	X2657	32221134	X2719	32421134	X2781	12243442
X2472	12112313	X2534	12113123	X2596	22113434	X2658	12243323	X2720	23443321	X2782	21233232
X2473	32344422	X2535	21234224	X2597	24331212	X2659	34424322	X2721	33342342	X2783	12333422
X2474	32234431	X2536	11344324	X2598	22132334	X2660	23442331	X2722	24323244	X2784	32223431
X2475	43124431	X2537	42111223	X2599	44313212	X2661	42312444	X2723	13211323	X2785	43112331
X2476	44331223	X2538	43322442	X2600	11312224	X2662	21132124	X2724	43133222	X2786	34221334
X2477	11243313	X2539	22331212	X2601	12424313	X2663	12123443	X2725	22312244	X2787	24433442
X2478	43111321	X2540	13242134	X2602	42422132	X2664	23243312	X2726	33213123	X2788	12232444
X2479	32433324	X2541	31131243	X2603	33124421	X2665	11233424	X2727	34233131	X2789	24234421
X2480	32443224	X2542	33111324	X2604	32124424	X2666	24443243	X2728	13342342	X2790	13212133
X2481	34223433	X2543	42132312	X2605	22334321	X2667	23443112	X2729	24223342	X2791	13344423
X2482	23231223	X2544	32132443	X2606	42431312	X2668	33324432	X2730	24332242	X2792	11132244
X2483	23431133	X2545	23123434	X2607	43211133	X2669	33212313	X2731	11332332	X2793	11242244
X2484	32442324	X2546	42133212	X2608	44234223	X2670	13223221	X2732	13123231	X2794	22432111
X2485	32132421	X2547	22332112	X2609	22211334	X2671	33132431	X2733	12321322	X2795	24323321
X2486	13311331	X2548	42324313	X2610	34211124	X2672	33134244	X2734	13232131	X2796	32231342
X2487	33444323	X2549	22332244	X2611	43323311	X2673	23344321	X2735	32421332	X2797	33244323
X2488	12213243	X2550	23133244	X2612	12231211	X2674	23111343	X2736	32111233	X2798	13134242
X2489	42211343	X2551	33342322	X2613	12324433	X2675	13324443	X2737	44322124	X2799	12123124
X2490	32331123	X2552	32344332	X2614	31344421	X2676	43333424	X2738	44332213	X2800	22434234
X2491	12232231	X2553	43443123	X2615	13213222	X2677	31133324	X2739	43122224	X2801	42321323
X2492	11333324	X2554	42233431	X2616	33211231	X2678	44422132	X2740	33131243	X2802	22322113
X2493	13312343	X2555	33112442	X2617	42133311	X2679	33224224	X2741	21324231	X2803	32442124
X2494	23124332	X2556	32131233	X2618	34233324	X2680	13134422	X2742	43222311	X2804	43324231
X2495	31334224	X2557	24431222	X2619	23432231	X2681	34324433	X2743	13123311	X2805	21223444
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X2510	33442343	X2572	23224434	X2634	22324432	X2696	32131242	X2758	23334423	X2820	23121243



# Infiniti X1-X7000

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X2876	12113422	X2938	13223124	X3000	22431334						
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X2880	22243243	X2942	13444334	X3004	11223113						
X2881	44423113	X2943	13222112	X3005	44212313						
X2882	31334431	X2944	32244344	X3006	42112321						

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# Infiniti

## X1-X7000

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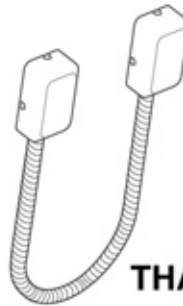


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X3483	33233242	X3545	13213211	X3607	34322224
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X3485	42331133	X3547	31242231	X3609	33422132
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X3511	13224442	X3573	13132121	X3635	12421123
X3512	22312132	X3574	34433423	X3636	32134421
X3513	43242311	X3575	11224224	X3637	43342442
X3514	11223432	X3576	33122311	X3638	11233422
X3515	11132334	X3577	33312134	X3639	32231113
X3516	42342344	X3578	34231331	X3640	11223344
X3517	42333221	X3579	43112212	X3641	22113344
X3518	43113222	X3580	12331123	X3642	33124221
X3519	22213323	X3581	44243131	X3643	13244422
X3520	31321211	X3582	23422124	X3644	34222333
X3521	31311232	X3583	33124434	X3645	44422321
X3522	42422121	X3584	11223121	X3646	23211122
X3523	12124442	X3585	22423111	X3647	43421224
X3524	31222332	X3586	23444322	X3648	22311221
X3525	12232112	X3587	34342242	X3649	13311212
X3526	21321322	X3588	42133443	X3650	23331244
X3527	12332443	X3589	23122134	X3651	32423431

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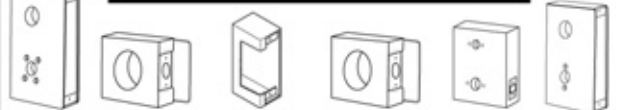
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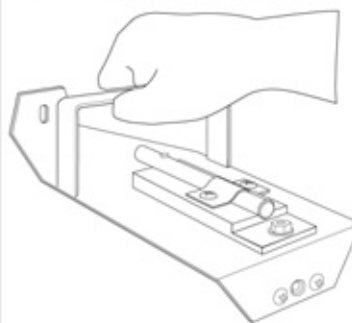
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# Infiniti X1-X7000

X3652	43333422	X3680	31324331	X3708	34231113	X3736	43123331	X3798	32342123	X3860	12342213
X3653	43233243	X3681	43122231	X3709	33224312	X3737	13223113	X3799	31243342	X3861	11231332
X3654	24443131	X3682	44342311	X3710	32112212	X3738	33121332	X3800	42133342	X3862	33311221
X3655	32434422	X3683	34331321	X3711	12132344	X3739	42322342	X3801	24332334	X3863	24311212
X3656	22134431	X3684	13334244	X3712	11233222	X3740	13221234	X3802	42323323	X3864	31243234
X3657	12311334	X3685	44233242	X3713	42112442	X3741	34231311	X3803	42243331	X3865	34432123
X3658	23233243	X3686	31123211	X3714	22312312	X3742	42433422	X3804	11132444	X3866	31223344
X3659	31134312	X3687	42312112	X3715	22321312	X3743	23213322	X3805	42212432	X3867	44243221
X3660	32123124	X3688	21334421	X3716	21121243	X3744	31123121	X3806	42113212	X3868	44313311
X3661	32231311	X3689	42431231	X3717	11242343	X3745	33233211	X3807	31224224	X3869	34223231
X3662	23112313	X3690	13321244	X3718	24333324	X3746	34421323	X3808	21332223	X3870	13332123
X3663	12113242	X3691	33224424	X3719	43121221	X3747	32213331	X3809	44432111	X3871	32121333
X3664	42124333	X3692	13243221	X3720	23343443	X3748	34221224	X3810	22112134	X3872	44324324
X3665	32321344	X3693	43421321	X3721	42224321	X3749	23331242	X3811	31232342	X3873	43332223
X3666	13322342	X3694	13332442	X3722	24244332	X3750	42311232	X3812	12233432	X3874	11312432
X3667	33233112	X3695	23121322	X3723	23332113	X3751	32442331	X3813	42232331	X3875	13334424
X3668	23311134	X3696	12332133	X3724	21342431	X3752	31131342	X3814	24342311	X3876	31332134
X3669	13332431	X3697	21213443	X3725	34213432	X3753	31223432	X3815	32334232	X3877	33222312
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X3671	34342321	X3699	31133234	X3727	24332442	X3755	42231231	X3817	44233213	X3879	42423133
X3672	13423331	X3700	42324331	X3728	32432231	X3756	12132211	X3818	34232442	X3880	33213312
X3673	22233442	X3701	42431233	X3729	24423342	X3757	23124433	X3819	13231123	X3881	42244433
X3674	23231113	X3702	42432322	X3730	42431244	X3758	33232432	X3820	23213421	X3882	24231244
X3675	13132134	X3703	13322324	X3731	22112233	X3759	43442423	X3821	11224433	X3883	23213443
X3676	42331113	X3704	24334422	X3732	32113132	X3760	34431113	X3822	33233244	X3884	44433222
X3677	44423234	X3705	23422111	X3733	22312444	X3761	24323323	X3823	21113233	X3885	34233124
X3678	11243243	X3706	24342313	X3734	11322243	X3762	32133442	X3824	44311243	X3886	44342324
X3679	21312423	X3707	32242443	X3735	11323421	X3763	22112244	X3825	34213344	X3887	12333112

X3764	23423231	X3826	42123123	X3888	21243422
X3765	12221332	X3827	13244431	X3889	34233423
X3766	11324434	X3828	42443122	X3890	42211134
X3767	12243433	X3829	31322331	X3891	13433132
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X3769	12424331	X3831	13444231	X3893	13443344
X3770	33442134	X3832	11323424	X3894	42213321
X3771	23221321	X3833	22121323	X3895	21231324
X3772	42234432	X3834	31212232	X3896	11232331
X3773	12443442	X3835	22133131	X3897	24332123
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X3775	32131332	X3837	33212434	X3899	24431233
X3776	22334332	X3838	21331222	X3900	31222213
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X3778	42113313	X3840	24424213	X3902	12313123
X3779	22431332	X3841	33123134	X3903	12432311
X3780	43222331	X3842	44321213	X3904	44233312
X3781	32213344	X3843	23223231	X3905	43113123
X3782	34221123	X3844	21112324	X3906	42332134
X3783	32311321	X3845	11332444	X3907	43134212
X3784	13223313	X3846	12242331	X3908	44431242
X3785	42111331	X3847	24322434	X3909	42133124
X3786	42134224	X3848	22443124	X3910	42232234
X3787	42243124	X3849	11223243	X3911	32243244
X3788	11324324	X3850	24432423	X3912	33212234
X3789	32444333	X3851	42132442	X3913	32443222
X3790	21121124	X3852	34423312	X3914	12243123
X3791	44221113	X3853	32332243	X3915	13422123
X3792	23342431	X3854	31112323	X3916	12233344
X3793	34232431	X3855	24231233	X3917	24422433
X3794	21243131	X3856	32321131	X3918	13434232
X3795	23444324	X3857	32342332	X3919	24243243
X3796	43313224	X3858	44233112	X3920	13322243
X3797	32124323	X3859	22134332	X3921	24213332

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X3922	33444321	X3984	24231242	X4046	33443124	X4108	12213344	X4137	34334322	X4166	23124343
X3923	34211313	X3985	24213242	X4047	24213442	X4109	23421213	X4138	12221311	X4167	22132433
X3924	43243121	X3986	43342123	X4048	32213133	X4110	21322123	X4139	11234324	X4168	21312243
X3925	42433123	X3987	22211244	X4049	32134324	X4111	42312134	X4140	13213431	X4169	32111343
X3926	32342224	X3988	34432224	X4050	42244422	X4112	23132111	X4141	13431231	X4170	13213442
X3927	13232133	X3989	21331332	X4051	24431242	X4113	22442332	X4142	32234442	X4171	31321244
X3928	32342132	X3990	43132421	X4052	43312344	X4114	21322442	X4143	44421342	X4172	11343442
X3929	44333223	X3991	12113244	X4053	43232211	X4115	42133331	X4144	42423111	X4173	13311342
X3930	31331234	X3992	32243343	X4054	43421244	X4116	21322111	X4145	43422331	X4174	24342133
X3931	11234322	X3993	13431222	X4055	11331122	X4117	22233121	X4146	12212343	X4175	12421311
X3932	33342421	X3994	33132132	X4056	21311233	X4118	13233112	X4147	12344332	X4176	43223444
X3933	21132243	X3995	43243332	X4057	12311224	X4119	22444323	X4148	32342312	X4177	31342112
X3934	24431244	X3996	42312231	X4058	33312123	X4120	43221244	X4149	13442334	X4178	42213123
X3935	31322234	X3997	44224231	X4059	43342332	X4121	13213242	X4150	34312443	X4179	42423311
X3936	22334211	X3998	12233443	X4060	24324221	X4122	43124424	X4151	34421343	X4180	42421133
X3937	31113324	X3999	32121322	X4061	44224431	X4123	13323213	X4152	32223444	X4181	23123331
X3938	44233211	X4000	11312312	X4062	32321311	X4124	22111333	X4153	42223423	X4182	32211124
X3939	13312334	X4001	12133132	X4063	34424223	X4125	43342224	X4154	23244421	X4183	33423432
X3940	22231213	X4002	32213124	X4064	24343244	X4126	43212244	X4155	23334223	X4184	12334432
X3941	44432342	X4003	21223334	X4065	43132443	X4127	43431133	X4156	23442342	X4185	31122131
X3942	23234422	X4004	32122334	X4066	13213332	X4128	12333321	X4157	13112312	X4186	42432331
X3943	43132221	X4005	21124224	X4067	43344323	X4129	13242112	X4158	23342134	X4187	12422113
X3944	23331121	X4006	43334232	X4068	11243124	X4130	11344342	X4159	34221244	X4188	32432312
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X3946	43234422	X4008	11312421	X4070	43243242	X4132	43342132	X4161	44334332	X4190	11133133
X3947	13233242	X4009	44231213	X4071	22123343	X4133	32423121	X4162	43122444	X4191	32242113
X3948	24432111	X4010	11322223	X4072	24323442	X4134	33121132	X4163	23313424	X4192	32123311
X3949	23442133	X4011	22213312	X4073	43111224	X4135	13123123	X4164	34332342	X4193	24211244
X3950	23121131	X4012	23423433	X4074	34213124	X4136	32311244	X4165	13323112	X4194	13122421
X3951	23343322	X4013	34213234	X4075	22434212						
X3952	23313422	X4014	24321121	X4076	32122132						
X3953	12422333	X4015	11233444	X4077	32243233						
X3954	33223122	X4016	12222443	X4078	12244344						
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X3957	44311232	X4019	44233244	X4081	12232433						
X3958	12432422	X4020	11211343	X4082	32234233						
X3959	22342443	X4021	13324221	X4083	31232243						
X3960	33443232	X4022	31342324	X4084	42322344						
X3961	33212311	X4023	11312444	X4085	24312424						
X3962	11313212	X4024	31123321	X4086	21323313						
X3963	11312221	X4025	31124223	X4087	11132123						
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X3970	32122323	X4032	21324343	X4094	13422444						
X3971	22344331	X4033	42344342	X4095	43324343						
X3972	32322123	X4034	42133232	X4096	34233434						
X3973	32431324	X4035	22324333	X4097	42242343						
X3974	12344312	X4036	22133122	X4098	13233213						
X3975	44423223	X4037	23343122	X4099	31123231						
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X3977	32322442	X4039	31132444	X4101	43123324						
X3978	22334233	X4040	23343243	X4102	43212233						
X3979	12213432	X4041	43321344	X4103	12443242						
X3980	13124234	X4042	24423434	X4104	42244334						
X3981	43422434	X4043	44213112	X4105	31234432						
X3982	22332213	X4044	44433231	X4106	34311334						
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X4195	34223323	X4257	43344224	X4319	11323244	X4381	11243231	X4443	32112122	X4505	12332423
X4196	23224423	X4258	43432231	X4320	13444222	X4382	32311222	X4444	32331132	X4506	32212444
X4197	31124243	X4259	11322121	X4321	12213124	X4383	34222243	X4445	34242212	X4507	24431134
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X4199	22321132	X4261	13223432	X4323	24433334	X4385	32334434	X4447	23223424	X4509	31231134
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X4202	12422423	X4264	12213234	X4326	44422134	X4388	12434334	X4450	33242343	X4512	33112312
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X4204	33131223	X4266	43431113	X4328	34322422	X4390	11344421	X4452	21334212	X4514	24423133
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X4206	23211124	X4268	42221113	X4330	43112122	X4392	24213321	X4454	11213424	X4516	21311334
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X4230	22121343	X4292	13434423	X4354	12331231	X4416	43111233	X4478	23113334	X4540	33122113
X4231	33244321	X4293	13342124	X4355	23422344	X4417	43112333	X4479	32342433	X4541	31222442
X4232	22313344	X4294	43233212	X4356	44432234	X4418	13442123	X4480	42334211	X4542	22332321
X4233	23343423	X4295	31132123	X4357	34421224	X4419	31213334	X4481	13212212	X4543	13433242
X4234	33234223	X4296	43113433	X4358	21133422	X4420	12122311	X4482	22243331	X4544	12343423
X4235	11342432	X4297	31322434	X4359	32311323	X4421	12332344	X4483	24311311	X4545	23223213
X4236	44323112	X4298	31123123	X4360	23112443	X4422	21333442	X4484	33124331	X4546	32112333
X4237	13323211	X4299	11334244	X4361	11213421	X4423	44433123	X4485	42113322	X4547	32132322
X4238	33243223	X4300	43313112	X4362	44334233	X4424	42134213	X4486	23442344	X4548	11234423
X4239	32311242	X4301	34434431	X4363	42231132	X4425	44343312	X4487	24322124	X4549	31334442
X4240	43122123	X4302	24243124	X4364	43313442	X4426	12442331	X4488	22121321	X4550	34244311
X4241	22321332	X4303	23432244	X4365	21221244	X4427	32312324	X4489	42223311	X4551	42123323
X4242	31312421	X4304	23442333	X4366	22112444	X4428	21134421	X4490	32234332	X4552	42433431
X4243	42344223	X4305	42213334	X4367	24424231	X4429	21331123	X4491	33421243	X4553	23423334
X4244	33342344	X4306	31342121	X4368	23112322	X4430	32244212	X4492	22111344	X4554	32432211
X4245	22312332	X4307	32443442	X4369	24421133	X4431	33111331	X4493	23333442	X4555	21342242
X4246	34344222	X4308	32221323	X4370	34442212	X4432	32434233	X4494	42321121	X4556	12444311
X4247	44433422	X4309	32312223	X4371	11224332	X4433	21344433	X4495	12312234	X4557	21133424
X4248	43422122	X4310	22123134	X4372	21244331	X4434	13122322	X4496	34332344	X4558	23332434
X4249	32121131	X4311	23423132	X4373	33122131	X4435	13124342	X4497	12211124	X4559	11324243
X4250	31344232	X4312	42431134	X4374	24244321	X4436	22122443	X4498	21121333	X4560	23124424
X4251	32242342	X4313	44334211	X4375	24234223	X4437	22313243	X4499	22332121	X4561	21321324
X4252	23133134	X4314	11222442	X4376	13124432	X4438	42342421	X4500	43113211	X4562	21234422
X4253	31312444	X4315	32123131	X4377	44344313	X4439	32124442	X4501	12423323	X4563	34332423
X4254	33111234	X4316	23132432	X4378	43312122	X4440	24342111	X4502	11334424	X4564	43243222
X4255	12343322	X4317	33423131	X4379	33111223	X4441	22213231	X4503	31211321	X4565	13442132
X4256	44421331	X4318	12243334	X4380	13243234	X4442	44222211	X4504	23243211	X4566	42312123



# Infiniti X1-X7000

X4567	11222343	X4629	42223133	X4691	42423122
X4568	23442423	X4630	43243132	X4692	34422333
X4569	31133423	X4631	31322432	X4693	33211224
X4570	21231232	X4632	11224424	X4694	32423123
X4571	33324223	X4633	23421233	X4695	32442421
X4572	44311331	X4634	32443242	X4696	32334234
X4573	44423313	X4635	22333443	X4697	43122343
X4574	24433424	X4636	22313423	X4698	33221221
X4575	31121233	X4637	21342321	X4699	34223211
X4576	33422121	X4638	23313244	X4700	13342221
X4577	43213434	X4639	24333421	X4701	33112211
X4578	34223213	X4640	24324421	X4702	11232432
X4579	43322332	X4641	13343213	X4703	43342211
X4580	22124432	X4642	22111324	X4704	44234331
X4581	21343313	X4643	12132133	X4705	32231133
X4582	21213232	X4644	22124342	X4706	32221343
X4583	12233223	X4645	31242244	X4707	11122434
X4584	12433322	X4646	44324243	X4708	34242113
X4585	12112133	X4647	22444211	X4709	31134334
X4586	43431234	X4648	33122331	X4710	43344312
X4587	33113421	X4649	33424323	X4711	43221332
X4588	44233433	X4650	12243332	X4712	12243242
X4589	12442322	X4651	23223211	X4713	22442121
X4590	34232213	X4652	42323343	X4714	23244311
X4591	32242344	X4653	33232434	X4715	22313223
X4592	22332134	X4654	31311342	X4716	33243232
X4593	11122324	X4655	24312213	X4717	24333221
X4594	24443324	X4656	11222131	X4718	43312232
X4595	11231242	X4657	23243321	X4719	23121324
X4596	12124334	X4658	33113443	X4720	31231211
X4597	13133434	X4659	32242234	X4721	33321123
X4598	34322231	X4660	44333113	X4722	21244324
X4599	43211322	X4661	34212433	X4723	13242312
X4600	12443222	X4662	43122332	X4724	34212231
X4601	33432212	X4663	33134422	X4725	13234211
X4602	21344422	X4664	12224423	X4726	42342212
X4603	42343312	X4665	11221234	X4727	21133444
X4604	32331242	X4666	22234344	X4728	42213431
X4605	12312344	X4667	21233434	X4729	13224323
X4606	32422443	X4668	24433332	X4730	32231331
X4607	34433122	X4669	34324424	X4731	13232234
X4608	23311242	X4670	21123331	X4732	33321321
X4609	23421231	X4671	43131231	X4733	12112421
X4610	13324421	X4672	22131223	X4734	22443212
X4611	12231232	X4673	31212342	X4735	12421121
X4612	12112432	X4674	22233123	X4736	43231133
X4613	24322111	X4675	43342433	X4737	44333212
X4614	12324424	X4676	33123422	X4738	21223244
X4615	42312323	X4677	44224224	X4739	21122442
X4616	11331124	X4678	42334242	X4740	32433113
X4617	43322343	X4679	32322321	X4741	22311243
X4618	33243423	X4680	24213123	X4742	13311234
X4619	24332211	X4681	13112332	X4743	24442224
X4620	42332332	X4682	13433213	X4744	12434224
X4621	33422321	X4683	23134432	X4745	21344233
X4622	24422312	X4684	13234223	X4746	12344224
X4623	42232432	X4685	34433342	X4747	42312442
X4624	33231222	X4686	23113112	X4748	32134344
X4625	13421122	X4687	23443132	X4749	34433234
X4626	42122331	X4688	21133112	X4750	23442122
X4627	34324233	X4689	12222331	X4751	23332124
X4628	21121322	X4690	32132423	X4752	31324234

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PART#	FUNCTIONS	LIST	LIST
		US3, US10, 26	US10B, 26D
28-10G04LL	Storeroom / Service with Guardbolt	328.00	319.00
28-10G05LL	Entrance / Office with Guardbolt	328.00	319.00
28-10U15LL	Passage	258.00	250.00
28-10G37LL	Classroom with Guardbolt	328.00	319.00
28-10U65LL	Privacy / Bathroom / Bedroom	295.00	286.00

## 8 Line Cylindrical Knob Locks



PART#	FUNCTIONS	LIST	LIST
		US10, 10B	US26D
28-8G04OB	Storeroom / Service with Guardbolt	357.00	351.00
28-8G05OB	Entrance / Office with Guardbolt	357.00	351.00
28-8U15OB	Passage	290.00	284.00
28-8G37OB	Classroom with Guardbolt	357.00	351.00
28-8U65OB	Privacy / Bathroom / Bedroom	326.00	320.00

## 6 Line Cylindrical Knob Locks



PART#	FUNCTIONS	LIST	LIST
		US26D	US3, 10, 10B
2428-6G04OB	Storeroom / Service with Guardbolt	135.00	139.00
2428-6G05OB	Entrance / Office with Guardbolt	135.00	139.00
2428-6U15OB	Passage	86.00	90.00
2428-6G37OB	Classroom with Guardbolt	135.00	139.00
2428-6U65OB	Privacy / Bathroom / Bedroom	100.00	104.00



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# Infiniti X1-X7000

X4753	34422131	X4815	22342331	X4877	43243334	X4939	43112324
X4754	22133322	X4816	33112242	X4878	43334234	X4940	43221224
X4755	31133434	X4817	42313122	X4879	32312432	X4941	21244221
X4756	22333122	X4818	23423424	X4880	33123424	X4942	43311334
X4757	23343311	X4819	31223324	X4881	42113232	X4943	22432131
X4758	42213442	X4820	43223134	X4882	13422112	X4944	44321132
X4759	21342422	X4821	44211231	X4883	33423124	X4945	22132431
X4760	23234431	X4822	44433312	X4884	31213442	X4946	34422423
X4761	42212234	X4823	43443431	X4885	22442431	X4947	24433312
X4762	12432431	X4824	43132234	X4886	42223111	X4948	23344433
X4763	42321134	X4825	23113332	X4887	32213432	X4949	21123133
X4764	34242342	X4826	13211312	X4888	42443313	X4950	13342234
X4765	31312332	X4827	22443443	X4889	32232112	X4951	31322124
X4766	22244334	X4828	23331132	X4890	44332233	X4952	23122321
X4767	12423431	X4829	43123122	X4891	22124421	X4953	34422234
X4768	24423221	X4830	43232433	X4892	31221234	X4954	13342423
X4769	42443232	X4831	34431322	X4893	23422243	X4955	32113444
X4770	32134234	X4832	31132312	X4894	23433423	X4956	32443244
X4771	22444312	X4833	42233233	X4895	44324322	X4957	42113423
X4772	42122311	X4834	34431133	X4896	11343321	X4958	33123224
X4773	11322443	X4835	21134434	X4897	24331221	X4959	33223124
X4774	23134223	X4836	32211122	X4898	23332432	X4960	22122333
X4775	24312321	X4837	23122213	X4899	23423332	X4961	21221332
X4776	24313223	X4838	13113234	X4900	11334321	X4962	33311243
X4777	33322344	X4839	34432244	X4901	34324213	X4963	34231212
X4778	24423111	X4840	42134424	X4902	21311224	X4964	24311234
X4779	42431123	X4841	42133221	X4903	23111244	X4965	31112244
X4780	42432212	X4842	12242443	X4904	44234232	X4966	32221321
X4781	22443111	X4843	21213434	X4905	43224432	X4967	42233242
X4782	24211332	X4844	13122122	X4906	11213233	X4968	42311311
X4783	42313113	X4845	42443124	X4907	23443323	X4969	13322443
X4784	33134242	X4846	32233421	X4908	43442432	X4970	33443111
X4785	22113221	X4847	34442221	X4909	22134224	X4971	21332421
X4786	44222433	X4848	21134324	X4910	13244334	X4972	32312221
X4787	31233213	X4849	22421133	X4911	42233332	X4973	43221123
X4788	42112242	X4850	32422111	X4912	23213212	X4974	11322322
X4789	21333312	X4851	32443312	X4913	33442433	X4975	24431123
X4790	32223134	X4852	13322221	X4914	43443332	X4976	34443222
X4791	34321322	X4853	34431221	X4915	33424433	X4977	31231123
X4792	12432442	X4854	31224424	X4916	44331212	X4978	13223331
X4793	21132432	X4855	34322132	X4917	44224433	X4979	13332231
X4794	21234312	X4856	31213431	X4918	23231212	X4980	13211123
X4795	12123423	X4857	13222433	X4919	33212113	X4981	13123433
X4796	12344321	X4858	42323112	X4920	33443212	X4982	22132442
X4797	13433211	X4859	13123323	X4921	31112233	X4983	22211132
X4798	21343212	X4860	44222233	X4922	34422113	X4984	44331344
X4799	22312112	X4861	33312242	X4923	23312313	X4985	44313344
X4800	13434234	X4862	32234231	X4924	22422134	X4986	12332243
X4801	33434234	X4863	21131321	X4925	44211312	X4987	34424313
X4802	11332233	X4864	43134443	X4926	12223442	X4988	12233133
X4803	42131322	X4865	43344332	X4927	13213334	X4989	11324342
X4804	42132112	X4866	22311232	X4928	22444332	X4990	12434424
X4805	43333112	X4867	13311223	X4929	24313421	X4991	24342122
X4806	42422321	X4868	12433423	X4930	12321324	X4992	42313421
X4807	21322321	X4869	13433244	X4931	13444323	X4993	24242113
X4808	13213123	X4870	43331211	X4932	22424312	X4994	12324332
X4809	24213334	X4871	33113223	X4933	13423421	X4995	31233244
X4810	12443433	X4872	43123432	X4934	24322421	X4996	44321332
X4811	13212443	X4873	31233312	X4935	11332242	X4997	42423432
X4812	11324322	X4874	13442242	X4936	13432421	X4998	32233234
X4813	13331124	X4875	42311342	X4937	32322112	X4999	23112311
X4814	23134211	X4876	31224312	X4938	33342234	X5000	31321224

## A NOTE FROM THE CIRCULATION MANAGER

I don't want **you** to be left out... but sometimes we do run out of back issues. Please be sure to send in your **Renewal Payment** on time and your **Change of Address** at least 4 weeks in advance. Then you won't be the one receiving a note saying, "Sorry, we ran out."

Send your name, old address and new address to:

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# Infiniti X1-X7000

X5001	13432443	X5063	12333224	X5125	43211313	X5187	33324324
X5002	24313443	X5064	44422343	X5126	22312231	X5188	12243233
X5003	13122211	X5065	32134322	X5127	31232443	X5189	21331231
X5004	21133233	X5066	31332321	X5128	42432421	X5190	23132434
X5005	21243213	X5067	12433434	X5129	33344432	X5191	32332113
X5006	24234324	X5068	33123312	X5130	23224344	X5192	43433221
X5007	31231321	X5069	12424432	X5131	13322122	X5193	42342221
X5008	33244233	X5070	31211323	X5132	44213433	X5194	24331342
X5009	22322434	X5071	32112324	X5133	34211333	X5195	42433233
X5010	31344311	X5072	32224443	X5134	13344432	X5196	31134211
X5011	44232331	X5073	42431242	X5135	11244431	X5197	43122112
X5012	42231233	X5074	24322333	X5136	11132433	X5198	13423342
X5013	31212344	X5075	12334311	X5137	42433134	X5199	24313342
X5014	44334222	X5076	32442131	X5138	24223133	X5200	33233442
X5015	24332231	X5077	43113242	X5139	32442322	X5201	43224421
X5016	23111242	X5078	12343311	X5140	33224343	X5202	22312134
X5017	23223343	X5079	12244313	X5141	32242243	X5203	11232234
X5018	31113234	X5080	44324342	X5142	44432232	X5204	21331233
X5019	12342343	X5081	24224312	X5143	11332422	X5205	21221123
X5020	42312343	X5082	32221132	X5144	23423112	X5206	33431222
X5021	23321223	X5083	43422421	X5145	42231242	X5207	32334421
X5022	12421134	X5084	31224343	X5146	24442321	X5208	21322233
X5023	21123324	X5085	13421333	X5147	33434232	X5209	43242432
X5024	43321223	X5086	32224333	X5148	32113213	X5210	22332444
X5025	44422332	X5087	22421344	X5149	21133242	X5211	44332422
X5026	21332443	X5088	32442133	X5150	23111222	X5212	13322344
X5027	32232231	X5089	43332443	X5151	24244233	X5213	43332131
X5028	31331342	X5090	43432211	X5152	22324434	X5214	33122243
X5029	23312243	X5091	33311232	X5153	22133232	X5215	24433121
X5030	32122121	X5092	24311223	X5154	13224422	X5216	24312244
X5031	13313324	X5093	23433434	X5155	31324443	X5217	24243111
X5032	31123323	X5094	43133422	X5156	42211334	X5218	24221344
X5033	32132331	X5095	42332321	X5157	32422342	X5219	23431243
X5034	43332421	X5096	44213422	X5158	43123234	X5220	32311213
X5035	44243313	X5097	32344222	X5159	43232134	X5221	21331244
X5036	11322344	X5098	23344213	X5160	13134442	X5222	42113133
X5037	33423322	X5099	22211213	X5161	31232212	X5223	24342324
X5038	34223343	X5100	33221131	X5162	32324433	X5224	34331211
X5039	42231244	X5101	32434222	X5163	22244244	X5225	12132421
X5040	44332242	X5102	44211123	X5164	13322322	X5226	33124423
X5041	12421332	X5103	42442433	X5165	34221134	X5227	12423121
X5042	31122243	X5104	34442234	X5166	11332433	X5228	23333242
X5043	43113343	X5105	11132422	X5167	22324324	X5229	21112234
X5044	42322443	X5106	12223312	X5168	44311311	X5230	31134233
X5045	23312311	X5107	44433121	X5169	22234324	X5231	33224211
X5046	23211322	X5108	11333443	X5170	33324434	X5232	33342223
X5047	11212231	X5109	32444311	X5171	34312324	X5233	23344233
X5048	11122432	X5110	23344422	X5172	42243322	X5234	24422112
X5049	34332243	X5111	23221132	X5173	42432443	X5235	22433442
X5050	23133132	X5112	23342233	X5174	34212312	X5236	11211224
X5051	34312223	X5113	33442442	X5175	31213244	X5237	12422133
X5052	12243244	X5114	34211221	X5176	34242234	X5238	13342223
X5053	34324332	X5115	23112232	X5177	12444223	X5239	42313342
X5054	42213244	X5116	12113334	X5178	32213234	X5240	44332433
X5055	42313443	X5117	13342113	X5179	42333443	X5241	13113331
X5056	42332121	X5118	13232434	X5180	24211132	X5242	13331131
X5057	21342233	X5119	11331331	X5181	42334222	X5243	23244344
X5058	24224424	X5120	11244222	X5182	42324443	X5244	43313222
X5059	32212343	X5121	24312433	X5183	44313243	X5245	42234243
X5060	24424224	X5122	23131134	X5184	13421124	X5246	31131322
X5061	34322312	X5123	32443233	X5185	44342331	X5247	24224343
X5062	33312422	X5124	32134232	X5186	24312233	X5248	22331234

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01D-4/02

# Infiniti

## X1-X7000

X5249	32233344	X5311	23432132	X5373	42312242	X5435	11243121	X5497	13431242	X5559	13422424
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X5254	32124321	X5316	44223423	X5378	32133422	X5440	33123112	X5502	13232232	X5564	42121343
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X5307	12211322	X5369	12242342	X5431	23423233	X5493	32132124	X5555	11331243	X5617	42322131
X5308	31342331	X5370	23312124	X5432	12231344	X5494	33342124	X5556	21134234	X5618	12232134
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X5310	33243443	X5372	32223334	X5434	13313311	X5496	32113222	X5558	42443342	X5620	24432344



# Infiniti X1-X7000

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X5623	43122431	X5669	13344331	X5715	32444223	X5761	44242134	X5807	44312433	X5853	21124313
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X5666	21244432	X5712	12344242	X5758	43423323	X5804	24343312	X5850	13332224	X5896	11343323

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LSI 150 4 Credit Hours Nov 29 - Dec 10

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# Infiniti X1-X7000

X5897	22124434	X5926	21223433	X5955	22133221	X5984	42243311	X6046	24323112	X6108	44213134
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X5907	12113321	X5936	42344232	X5965	31122221	X5994	32334212	X6056	43131242	X6118	24323211
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						X6013	23134434	X6075	12232431	X6137	21332232
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						X6036	32431223	X6098	34212242	X6160	33432421
						X6037	24422334	X6099	23122424	X6161	33122221
						X6038	13443342	X6100	34324224	X6162	23311211
						X6039	23124244	X6101	34221121	X6163	33111342
						X6040	33231244	X6102	12232442	X6164	31132442
						X6041	21333231	X6103	13421211	X6165	32332212
						X6042	44324313	X6104	33321134	X6166	12334232
						X6043	12442111	X6105	33232113	X6167	12312122
						X6044	24423311	X6106	23443213	X6168	34424331
						X6045	21112232	X6107	43313213	X6169	34443233



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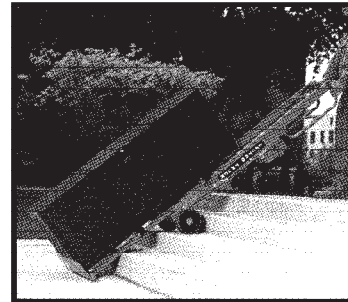
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# Infiniti X1-X7000

X6170	33342423	X6232	11323343	X6294	11334233	X6356	34432422	X6385	42132321	X6414	21333242
X6171	22443133	X6233	32332124	X6295	13223443	X6357	23122343	X6386	42221344	X6415	13324243
X6172	12123322	X6234	31321323	X6296	32342422	X6358	24333443	X6387	13321123	X6416	42233312
X6173	32342321	X6235	32121324	X6297	24233334	X6359	32434312	X6388	33324342	X6417	33113234
X6174	13442343	X6236	32344211	X6298	24213231	X6360	22423124	X6389	12124422	X6418	42113421
X6175	12423444	X6237	31312323	X6299	23243134	X6361	31123433	X6390	22323321	X6419	11132233
X6176	42422332	X6238	23213434	X6300	22234443	X6362	43342321	X6391	21133431	X6420	32331213
X6177	24442334	X6239	32132111	X6301	34432213	X6363	11212243	X6392	23234233	X6421	23213324
X6178	23124233	X6240	13423221	X6302	12442344	X6364	32344343	X6393	22344221	X6422	32421343
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X6180	43334212	X6242	31234421	X6304	12422324	X6366	33222244	X6395	13344212	X6424	43343311
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X6182	32133242	X6244	31331243	X6306	42442332	X6368	11313344	X6397	31334424	X6426	13231231
X6183	22432133	X6245	24312312	X6307	44223234	X6369	22313342	X6398	43213311	X6427	13122423
X6184	42223434	X6246	11243311	X6308	43211333	X6370	31233442	X6399	21123223	X6428	31224211
X6185	11242211	X6247	13423111	X6309	43322224	X6371	32332432	X6400	21332133	X6429	33132211
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X6187	11224211	X6249	21313244	X6311	33342113	X6373	32432332	X6402	33223344	X6431	43223112
X6188	34322433	X6250	23343124	X6312	44232234	X6374	44334231	X6403	43112322	X6432	42113243
X6189	43332232	X6251	24211323	X6313	42234434	X6375	33243324	X6404	32223112	X6433	13224334
X6190	32444232	X6252	33112332	X6314	42443423	X6376	42322313	X6405	44233123	X6434	43222432
X6191	31334244	X6253	22133124	X6315	23333424	X6377	32233432	X6406	43232213	X6435	32111244
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X6193	34243211	X6255	21234433	X6317	33322131	X6379	34423433	X6408	23243121	X6437	23124442
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X6195	34242131	X6257	24321312	X6319	31131122	X6381	31312442	X6410	42121323	X6439	24231312
X6196	44432122	X6258	44243243	X6320	31131232	X6382	24233433	X6411	32312313	X6440	12333123
X6197	34211243	X6259	11244211	X6321	23122332	X6383	34432433	X6412	11312343	X6441	13421223
X6198	21123342	X6260	43242331	X6322	34211232	X6384	12424434	X6413	24433431	X6442	42131124
X6199	33324322	X6261	13432223	X6323	23322132						
X6200	42422343	X6262	44221223	X6324	13334222						
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X6202	21322343	X6264	23244313	X6326	24432122						
X6203	12321133	X6265	23243112	X6327	42233213						
X6204	33432443	X6266	32113433	X6328	12334421						
X6205	34242133	X6267	24324223	X6329	43322132						
X6206	33423443	X6268	12431342	X6330	42423131						
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X6208	12323322	X6270	21333424	X6332	23343223						
X6209	42334422	X6271	12422342	X6333	21321243						
X6210	24334442	X6272	44433431	X6334	12443134						
X6211	24443342	X6273	13212432	X6335	12213423						
X6212	11311234	X6274	31131324	X6336	34223442						
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X6224	43442234	X6286	13231222	X6348	43112234						
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X6226	21234244	X6288	44311342	X6350	12432134						
X6227	21213324	X6289	12231234	X6351	23221231						
X6228	13324223	X6290	33311311	X6352	21334423						
X6229	32113422	X6291	43211221	X6353	13422213						
X6230	12321331	X6292	13312213	X6354	22324342						
X6231	42342232	X6293	42134244	X6355	22331342						

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## X1-X7000

X6443	22443221	X6505	23333444	X6567	44342322	X6629	44422123	X6691	42344311	X6753	11322113
X6444	42113124	X6506	22112442	X6568	42133113	X6630	44243124	X6692	13112213	X6754	13312433
X6445	43344242	X6507	33423234	X6569	42433242	X6631	22124344	X6693	24342322	X6755	21333244
X6446	13443232	X6508	21323113	X6570	12343124	X6632	23432431	X6694	24313322	X6756	13213323
X6447	24324243	X6509	24243311	X6571	32233443	X6633	11322431	X6695	12244331	X6757	32211313
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X6449	33431123	X6511	31134422	X6573	12442122	X6635	24234423	X6697	42123424	X6759	23113431
X6450	13431123	X6512	43423121	X6574	42211244	X6636	42421122	X6698	33134431	X6760	33442121
X6451	42233211	X6513	23421244	X6575	23431131	X6637	31212331	X6699	42432124	X6761	24443313
X6452	13234443	X6514	34223312	X6576	23223121	X6638	31312343	X6700	42433213	X6762	34312423
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X6454	23422434	X6516	22111223	X6578	31311223	X6640	12322312	X6702	42134312	X6764	33224323
X6455	42211213	X6517	21112443	X6579	11313243	X6641	32444313	X6703	24221333	X6765	43344213
X6456	42431321	X6518	13223342	X6580	24432324	X6642	23422313	X6704	13133131	X6766	31133311
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X6459	13333421	X6521	13443124	X6583	32212132	X6645	42333311	X6707	11234234	X6769	23211333
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X6502	42423113	X6564	13443313	X6626	32212442	X6688	44232434	X6750	42244312	X6812	23444333
X6503	43443224	X6565	33234232	X6627	12432424	X6689	21133244	X6751	44242312	X6813	32231344
X6504	34234312	X6566	12423343	X6628	31321343	X6690	42113223	X6752	42321312	X6814	12331132



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X6815	13423122	X6877	31121134	X6939	12433124
X6816	42311223	X6878	33213224	X6940	31121334
X6817	22443421	X6879	11313223	X6941	12112344
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X6822	23333244	X6884	42322133	X6946	34433223
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X6837	32132243	X6899	32244432	X6961	13432221
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X6840	24434234	X6902	12232213	X6964	33442431
X6841	42433211	X6903	21131244	X6965	21243134
X6842	44431132	X6904	31321123	X6966	11344234
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X6851	43223132	X6913	42131131	X6975	32243422
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X6862	21131233	X6924	22443322	X6986	12212442
X6863	43211324	X6925	32232334	X6987	11334222
X6864	24423432	X6926	22334422	X6988	42443212
X6865	24421122	X6927	31321321	X6989	24424433
X6866	24311313	X6928	33243212	X6990	43344431
X6867	11133122	X6929	11212313	X6991	13313423
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X6875	12244423	X6937	44313443	X6999	32432422
X6876	42324432	X6938	12212132	X7000	32232134

## Key Kop II Locking Shackles



5 Sizes of Shackle  
4 Sizes of Cable  
Tubular, Duo, Medeco

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Security Guards  
for Washers  
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Armor  
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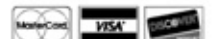
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TNL

# Helping the Industry

## One House At A Time

by **Joey Kingma**

**A** woman walks in and places a broken lock and key on the counter and says, “I need a new deadbolt for my house and some extra keys”. The accommodating clerk pulls a new lock from inventory, pins it quickly and cuts a few more keys. The woman pays, walks out with the lock and keys.

This sounds like the beginning of a joke, but instead it is the beginning of a horror story. The horror story ends with over \$250 million dollars of business leaving the locksmith channel.

Let’s review what happened:

1. The woman made a conscious choice about where to shop. She had many other options. Most go to big box stores for selection and price but go to a locksmith for expertise and service. Nothing about that transaction illustrated that the locksmith had any more to offer than the \$7/hour clerk at the local big box hardware store.
2. The clerk may have assumed that by providing what she asked for, he was best serving her needs, but failed to ask any questions or suggest more secure options. He failed the industry.
3. The woman wanted a lock to keep burglars out, unaware of the many options available to secure her home. She assumed that the locksmith would tell her if she were making a bad choice. He didn’t.

You could easily imagine the same transaction occurring at one of those big box hardware stores (you know the ones with the orange or blue signs). In fact, the same transaction occurs every day in every one of them. So why is that important to us?

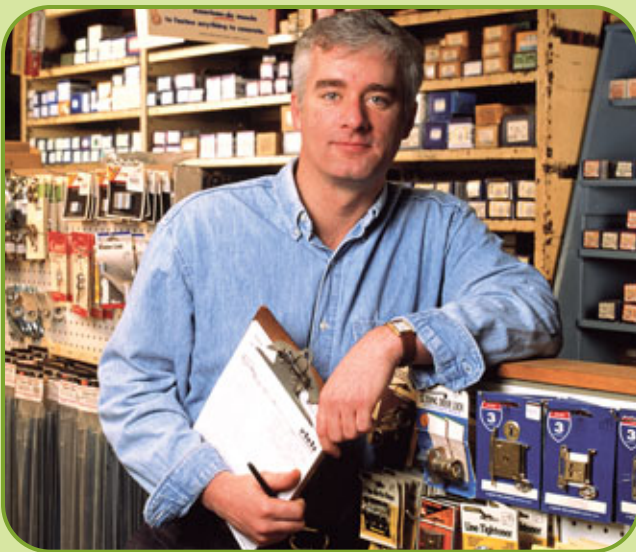
For the past 20 years, residential business has been shifting from professional channels to the big box type stores. This shift has been driven by several things, including: Consumers lack of education about different locking technologies, Powerful marketing campaigns inviting customers to shop these large stores based on price incentives, very large selection of hardware and low prices.

This trend will continue unless as an industry we begin to fight back. Twenty five percent of the



**This guy may be able to help homeowners with their lumber needs, but is he as qualified as you are to secure their home?**





**One of the main reasons residential customers visit their local locksmith is for the security expertise and recommendations that can only come from an expert.**

revenue in the locksmith channel is derived from residential business. Imagine your business shrinking by 25% over the coming years. I think it's worth fighting to keep.

To fight back we must first understand how we fit in the marketplace. Why do consumers shop at a big box store versus a locksmith? If you study the following table, you'll see that typically, a consumer seeks selection and low price when they shop at a big box store. Did you ever try to get expert advice when you shopped at one of those stores? It generally doesn't exist.

Now, why would that same consumer come to your business? They aren't led by some invisible force. No, they come because they expect a

higher level of expertise and professional service options. When you display and recommend (or allow the purchase of) the same products that are available at the big box store, you are making the following statements: We might know about better security hardware, but we think you either won't understand or won't want to pay for it. We'll just dumb-down to the level of the big box clerk for your convenience; We can never buy at the same volume as the big box, so we'll try to sell you the same products at a higher price; we really think the big box store is selling all you need, so go there.

Not exactly the legacy we want to leave behind.

**F**or years leaders in the high security industry have suggested retail locksmiths ask their customers two questions. Do you ever lend out the key to your house? Do you mind if someone makes a copy of your key without your permission? Imagine the scenario at the beginning of the article, but this time imagine that the counter clerk queries the customer about what she is trying to secure and what type of security she desires. "I'll be happy to provide what you need, but are you aware of the vulnerabilities of the hardware you have?" In short, many people in your neighborhood probably have the same front door key as you do and if you ever lend the key out, you have no way of knowing if copies were made. Are you comfortable with this? Because we see the problems associated with this type of system every day, we highly recommend upgrading your home to a UL 437 rated lock system ensuring you that your key will be the only one that opens your door and that you can lend it to anyone without

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**Residential customers are willing to pay more to protect their homes if they believe they are receiving superior customer service and product recommendations from someone who understands security.**

fear of copies being made. It will be a bit more expensive than what you have but it is the only product available that will offer you true security.

By offering the customer the expertise they came in for, you actually earn your pay (and their respect) by being their security expert. You have shared your experience in this industry with them. You help the customer understand why it is important to obtain professional help when dealing with protecting their homes, and illustrate flaws with common locks that most consumers are simply not aware of.

If they take your advice, you will have improved their security, and you will have shifted one sale away from the big box, fighting on a level that mass merchants are incapable of. It's the true David and Goliath story.

Now should you simply pin these words up to the back of the counter and have them rehearsed during quiet times? No, please don't try chanting lines, customers see right through to it. You need to do two things differently.

## 1. Change The Way You Think

You have to change the way you think about your business. When each customer walks through the door, remember why they came to you and where they chose not to shop. Provide them with what they came for, your expertise.

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**You'll be able to sleep better at night knowing your customers are safely protected in their home.**

Believe in what you offer and you will naturally offer the appropriate products. The customer may not always listen, but at least you will be able to sleep at night knowing that you tried.

## 2. Change What You Recommend

You recommend products in two ways, verbally and by what you show in your showroom. The previous point covers the verbal recommendation, so we'll concentrate on the showroom area. Most walk in traffic is residential. Commercial traffic will likely be in for a pick up or to set an appointment, not to browse. Commercial customers are typically sold in the boardroom not the showroom, so set your showroom with an emphasis on residential. Get rid of any product that appears on the shelf of a big box store. I know it's hard to do but you've got to draw the line there. Then make sure that every display promotes higher security than what can be found in a big box store. If products share a keyway with a product in the other channel, yes, you guessed it, get rid of them. You understand and sell security. The real stuff, not the fake stuff printed on the fancy boxes down the street. When a customer walks in, proudly promote what you sell and why.

Remember, this is a high stakes game with real consequences to your business and to the entire industry. You won't lose low security hardware sales by promoting higher security products. Instead, you'll make more high security sales and elevate your reputation in the community. You'll be improving the security of all of your customers, not just the commercial customers. You might even turn a better profit at the end of the year by not feeling the pressure to squeeze every penny out of your residential hardware for fear of being compared to the "other" channels. It's the right thing to do. **TNI**

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# Lockmasters Security Institute

## Expands Education Center

**M**arking nearly 50 years in training security professionals, Lockmasters dedicated its expanded 22,300 square foot, state-of-the-art education facility in May.

Lockmasters Security Institute in Nicholasville, Kentucky, is dedicated to a quality education program, which meets or exceeds the expectations of those concerned with operating within the security community.

“There have to be trained people in this world to protect us over all that is happening, and that is why we are here,” said Clay Miller, chairman of Lockmasters, Inc., as he cut the ribbon at the dedication ceremony.

Nearly 150 people, including state and local government, homeland security and education officials, along with industry vendors, students, locksmiths and other security professionals attended the ceremony.

The building contains separate classrooms for key lock training, physical security and anti-terrorism



training, fundamentals of electricity and electronic access control training and GSA training. The building is also the home of the Harry C. Miller Lock Collection. Housed in the building's main atrium lobby, the collection is considered to be America's most comprehensive collection of safe locks.

The key lock training classroom, which is also used for tactical entry courses, includes a drive-in bay area enabling locksmiths to learn the entire car in a sheltered environment. There are thirty individual work stations, equipped with Ilco key machines and other tools, set up to teach everyday locksmithing techniques.

Through a partnership with Central Kentucky Technical College, LSI students can work toward a Security Management Coordinator certificate, or simply earn college credits needed for career and personal advancement.

LSI's expanded facility builds on the original 7,500 square foot school, which opened in 1997. Lockmasters has already graded another 10,000 square feet on an adjacent lot in anticipation of future expansion.

Lockmasters was founded by Harry C. Miller in 1955, and training classes started shortly thereafter. **NLI**





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## WEB REVIEW

### Select Product Ltd.

<http://www.select-hinges.com/>



## SELECT HINGES

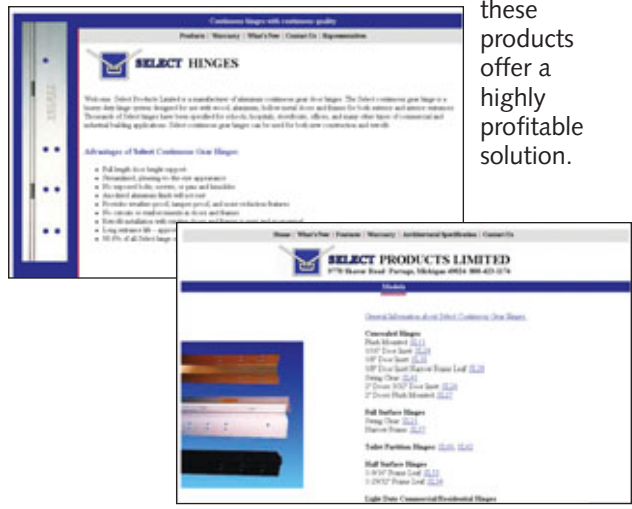
Geared To Ship In 48 Hours !

Select Products Limited is a manufacturer of aluminum continuous gear door hinges. The Select continuous gear hinge is a heavy-duty hinge system designed for use with wood, aluminum, hollow metal doors and frames for both exterior and interior entrances.

Thousands of Select hinges have been specified for schools, hospitals, storefronts, offices, and many other types of commercial and industrial building applications. Select continuous gear hinges can be used for both new construction and retrofit.

On the web site you'll get a great overview of the product line, including the hinge specifications and applications. This makes choosing the right product easy. Sagging doors often produce locksmith calls and

these products offer a highly profitable solution.



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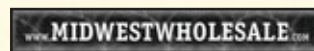
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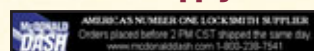
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### Midwest Wholesale



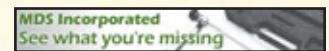
[www.midwestwholesale.com](http://www.midwestwholesale.com)

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### MDS, Inc.



[www.mdsincorporated.com](http://www.mdsincorporated.com)

### Monaco Lock



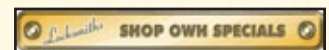
[www.monacolock.com](http://www.monacolock.com)

### National Auto Lock Service, Inc.



[www.laserkey.com](http://www.laserkey.com)

### Omaha Wholesale Hardware



[www.omahawh.com](http://www.omahawh.com)

### RS2 Technologies



[www.rs2tech.com](http://www.rs2tech.com)

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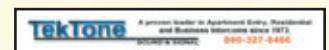
[www.securakey.com](http://www.securakey.com)

### Securiton Magnalock



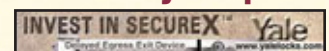
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Taking Industry Products for a...

# TEST DRIVE

## Pocket Size Decoder

by HPC



### IN SUMMARY:

**DESCRIPTION:** A pocket size key decoder.

**PRICE:** \$189.00

**COMMENTS:** Takes the guesswork out of decoding keys.

**TEST DRIVE RESULTS:** Easy to use, accurate and well made.

### THE NEED:

How often have you been given a key and asked to use it for the basis of a master key system, or maybe to decode what the key is to help establish the bitting of a current master key system? Maybe you were given a key that had to be wiggled a lot to make it work and they wanted a better working key. How about decoding a Medeco key to make another copy for a customer.

Do any of these sound familiar to you? I bet you can come up with a dozen similar situations that have happened to you over the years and you wished you had a fast, effective and accurate method to solve all the "opportunities" you were given.

### THE ANSWER:

Well, guess what? An answer does exist and it is the HPC POCKET SIZE DECODER model HKD-75. It comes as a kit, complete with the decoder and 111 information cards. They even numbered the cards to match the 1200CMB code machine cards so you can match them up easily and be sure you are using the same system when you cut the keys. This is important when you realize the number of different systems some of the lock companies have implemented over the years.

The Pocket Size Decoder determines the original factory depths of most popular domestic pin and disc tumbler cylinder and automotive keys. It is ideally suited for giving the correct bottom pin size when re-keying new or worn cylinders. It is also an effective timesaver

when used along with precision color pin assortments or when using original pins.

### USING THE TOOL:

The Pocket Decoder is very easy to use. You just determine the card that matches the system you are using and insert the card into the top slot of the decoder. Next you place the key you need to decode into the tool through the opening on the lower right hand corner. Slide the key in until the first cut lines up with the depth pin and read the depth on the card by seeing where the indicator is located. Record that information and go on until you have decoded all the cuts on the key.

Since the depth pin is chisel pointed and pivots, it allows for easy decoding of Medeco angles and works as well for Corbin high security keys also. The depth pin has a lever attached to it that will point to either a right hand or left hand cut for the high security keys, thereby eliminating the guesswork out of decoding them as well.

In addition to the depth and angle information you get from decoding the keys, each of the 2" x 4" information cards list the manufacturers depth and space specifications. If you are given a key that requires wiggling to work, you can often decode the key and cut the depths to the closest cut shallower than shown on the card. Many times this will eliminate the need to wiggle the key and can save you the headache of removing the lock and decoding it that way. This is especially true of GM ignition keys that have been "erased"

by all the weight customers seem to like to have on their rings.

The POCKET SIZE DECODER Model HKD-75 comes complete with a handy plastic carrying case, 3 shims and the before mentioned 111 information cards. The shims help keep the key straight in the decoder, a critical factor when accuracy is a must.

### PRICE:

The complete HPC HKD-75 kit has a suggested retail price of \$189.00.

### COMMENTS:

This is a well made, accurate product that does what it is advertised to do. A real time saver that takes the guesswork out of decoding keys and gives the locksmith another method of doing a job the local hardware store cannot do.

### CONCLUSION:

HPC has given us the answer to an everyday problem with this tool. It is made to last a longtime and if you keep it in the case it should last a lifetime. Well worth the \$189 retail price because it will pay for itself in time saved.

### ORDER INFORMATION:

For more information contact your distributor or HPC at:

**HPC Inc.**

3999 N 25th Ave  
Schiller Park, IL 60176

Phone: 847-671-6280 or 800-323-3295

Fax: 847-671-6343

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