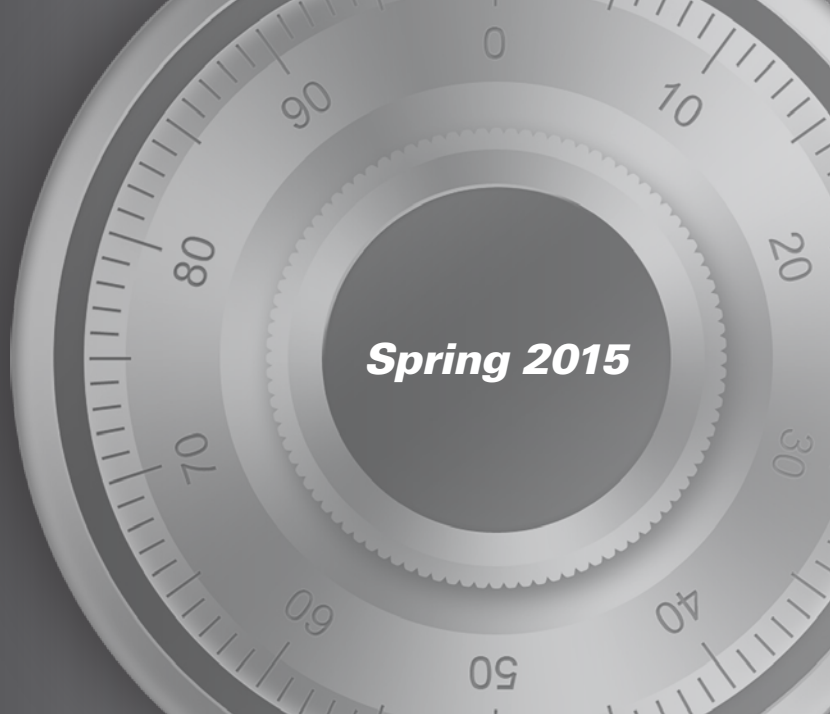


The National Safeman™



reaking



ass

and a vault

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The official publication
of the
**National Safeman's
Organization™**



Dave McOmie

In This Issue

We break glass. Twice! Nothing to be scared of. It just means relockers (might) have to be dealt with. No biggie. And, on the heels of issues dedicated to fire vaults made by Mosler and Diebold, we add the number three maker to the list: Herring-Hall-Marvin and a bypass method you will find useful one day. Enjoy!

Drill Bits For Sale

After nearly four decades as safe technician extraordinaire at the Seattle branch of Allied Security (my alma mater), Ed Lee has finally unplugged his drill motor and retired. Awhile back Ed bought out a GSA tech who retired, and thus has a big pile of bits to sell.

- 80 1/4" Diamatips
- 75 Strongarm 1/4" x 4"
- 25 StrongArm 1/4" x 6"
- 25 StrongArm 5/16" x 8"
- 5 StrongArm 3/8" x 8"
- 15 Mr Twister 3/8" x 6"
- 1 StrongArm 1/2" x 8"

List price is over \$3,400.00. Ed will take two grand for the lot. It is first-come, first-served. Ed can be reached at 74elee@gmail.com.



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Adesco: Breaking Glass On Purpose



I was in the van on the freeway, headed three states over on a vault job, when this emergency came in. Medical facility cannot get into main drug safe. Come immediately! Amazingly, it was just two exits ahead, so it was doable. I never get lucky like that!

Although the name tag had fallen off, the offset dial and handle are fairly unique, and I recognized the safe as likely coming from Sun Safe in South Korea. These have been private-labeled by ALS, Centurion, Eagle, Gardall, Hercules and others, but from the white/green color scheme, my money is on Adesco.



Sun hinge.



Correct code followed by # to send code to the lock produced the familiar dull click of a cross threaded drive screw on this 6120. I botched what was likely an easy opening, by getting in a hurry and putting on JumpBox and cross threading it so badly that I had to drill. The second I hit # with the JumpBox turned on, I realized it was a mistake, and turned it off. I then used the correct procedure, which is to leave JumpBox in the off position until three seconds AFTER hearing the dull click, and then turning it on to boost power during the lock bolt extension cycle to try and clear the cross thread. Did it a dozen times to no avail. It was too badly cross threaded to be fixed this way. Of course, I did not let on to either the locksmith or his client, that I had blown it. I proceeded to drill.

Facing what turned out to be a 14-hour drive to my vault job, I was in a massive hurry to get this puppy open and hit the road. So, I measured 2-7/16" up from spindle center and drilled. When I got through the door, I looked in and saw glass. Put my drill motor in high speed, hoping to burn a hole in the glass and have the glass stay intact long enough for me to punch the lock bolt and turn the handle. But of course this did not work. The glass broke immediately. The good news was that my hole was right on target, right on the lock bolt.



The even better news was that after the lock bolt was punched, the handle turned to open the safe! In this photo, the handle is in the unlocked position.



Back side of door with back panel attached.



This is a useful photo to have for future reference. It tells us total door thickness as well as the depth from door face to the door bolts.



Back panel removed. This is a 1-way boltwork, with four door bolts, all on the opening side.

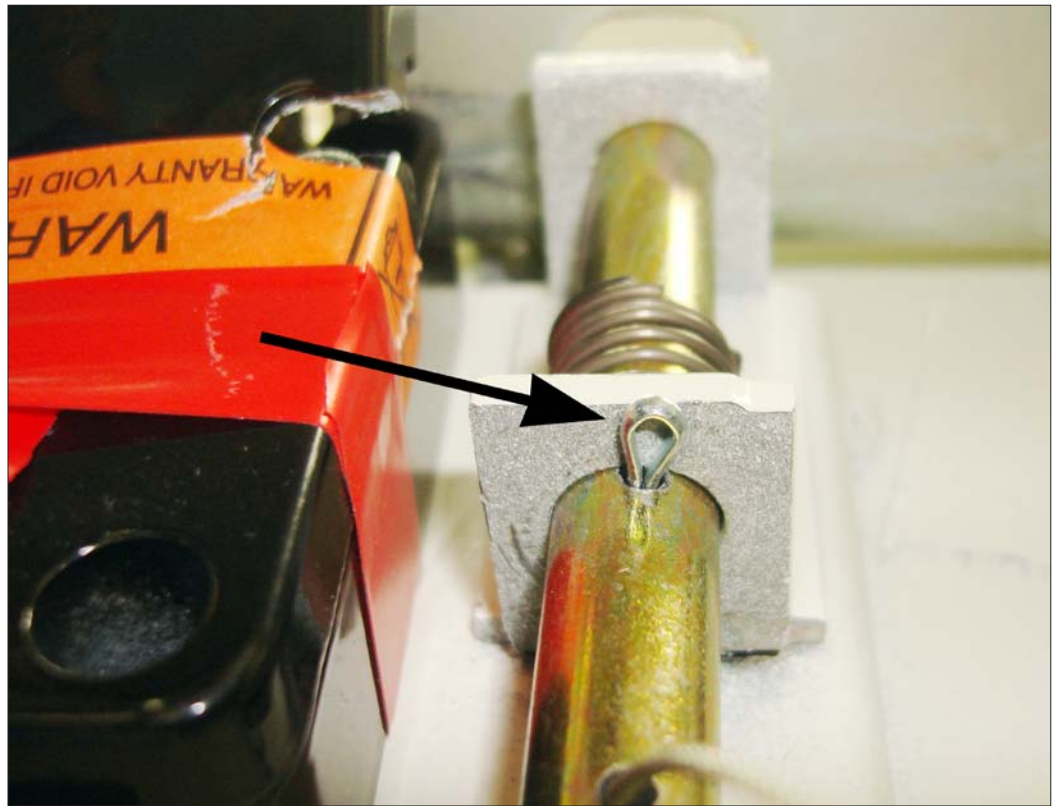


The lock is mounted VU. The relocker that did not fire is to the right of the lock in this photo (which is to the left of the lock from the outside of a locked safe). We will see in a moment why it didn't fire.

Punch sticks through drilled hole. I had to break up the lock bolt a bit, to create enough room for the bolt bar to pass. Would have been cleaner on both the opening and the repair if I had kept the hole under the dial ring and punched/shoehorned out the lock bolt.



Arrow points to why the relocker did not fire. The cotter key put in for shipping was never removed. In safes with glass, this happens frequently. Rarely to me, but this was a nice exception to my personal rule. (My personal rule is: if it weren't for bad luck, I'd have no luck at all, which isn't entirely true. But it feels true. Totally.)



Lock removed.



The glass was caught by the lip at the bottom of the door. Better than a dustpan!

I packed my tools and boogied down the road, to the vault we will open in the last article in this issue. I gave the local locksmith a decal to place over the repair site, which he used to great effect. Since there is no other name on this safe, it is now a Diebold!



Amsec: Breaking Glass Accidentally

We opened this one a few years ago at a PenParty right after Amsec introduced this new series of safe. I didn't even know there was glass. All we knew is that the lock was not opening on the factory combo. Nothing felt amiss.



Big Red / Lock One: DO NOT SLAM OFF. Center drill.



These BigRed dials are a pleasure to operate. The slightly soft rubber dial knob is a home run design that customers love.

Do NOT use a slam hammer or dial press on a BigRed dial. It will usually just make a mess. Center drill the spindle until the dial will come off.





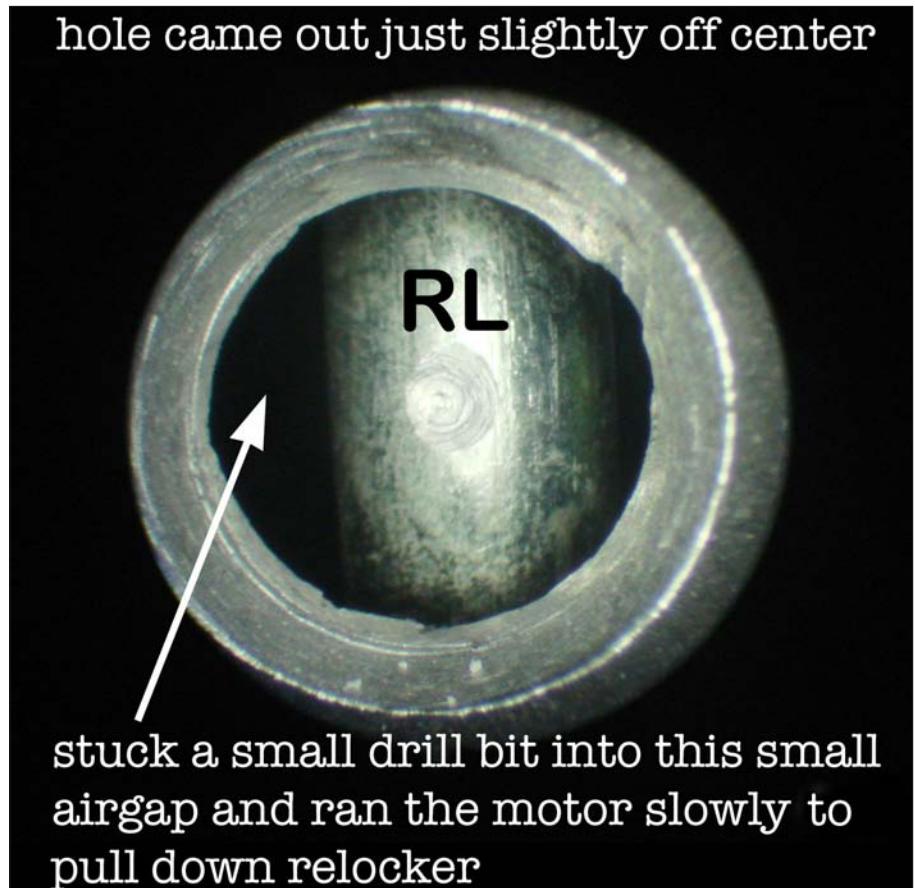
Look at the end of the spindle and you can see where the drill bit neatly cut it away, leaving a good amount sticking out to grab onto. It took two holes to open the safe. The first one was right at the fence — a good place to be if you aren't sure of the problem. The second hole was for the relocker that fired when we unintentionally broke glass that we didn't even know was there. The exact drill points are on this photo.

drill bit snagged and snapped off fence



When the drill bit penetrated the case, it snagged the fence and immediately broke off. The dial was turned to open the lock.

hole came out just slightly off center



The external relocker was drilled for and spun retracted with a 1/8" drill bit. More on this in a minute.

stuck a small drill bit into this small airgap and ran the motor slowly to pull down relocker

Back side of door with back panel attached.
Let's zoom in for a look at the round thingy
in the middle of the door.

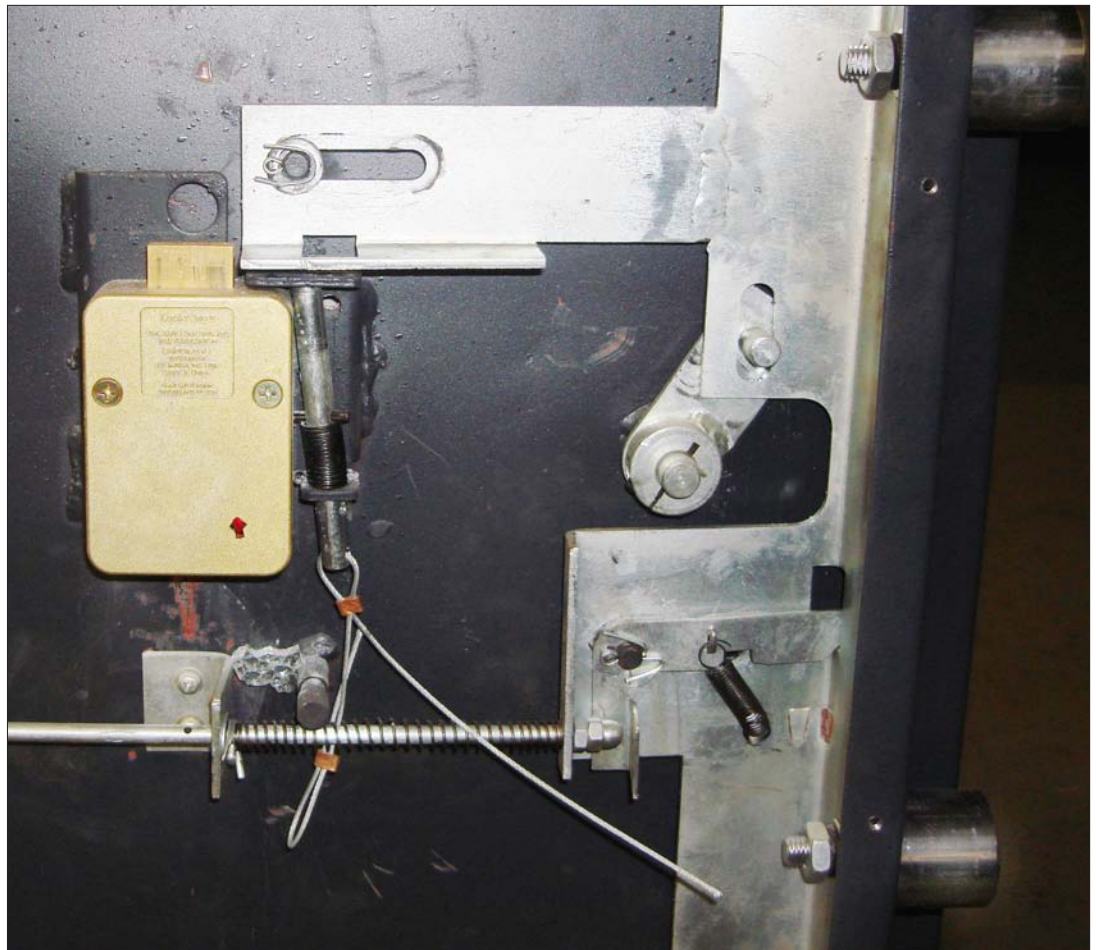


That round thingy is a diabolical warranty sticker that has made safecrackers everywhere work hard to scope the CKH. Grrrrr.

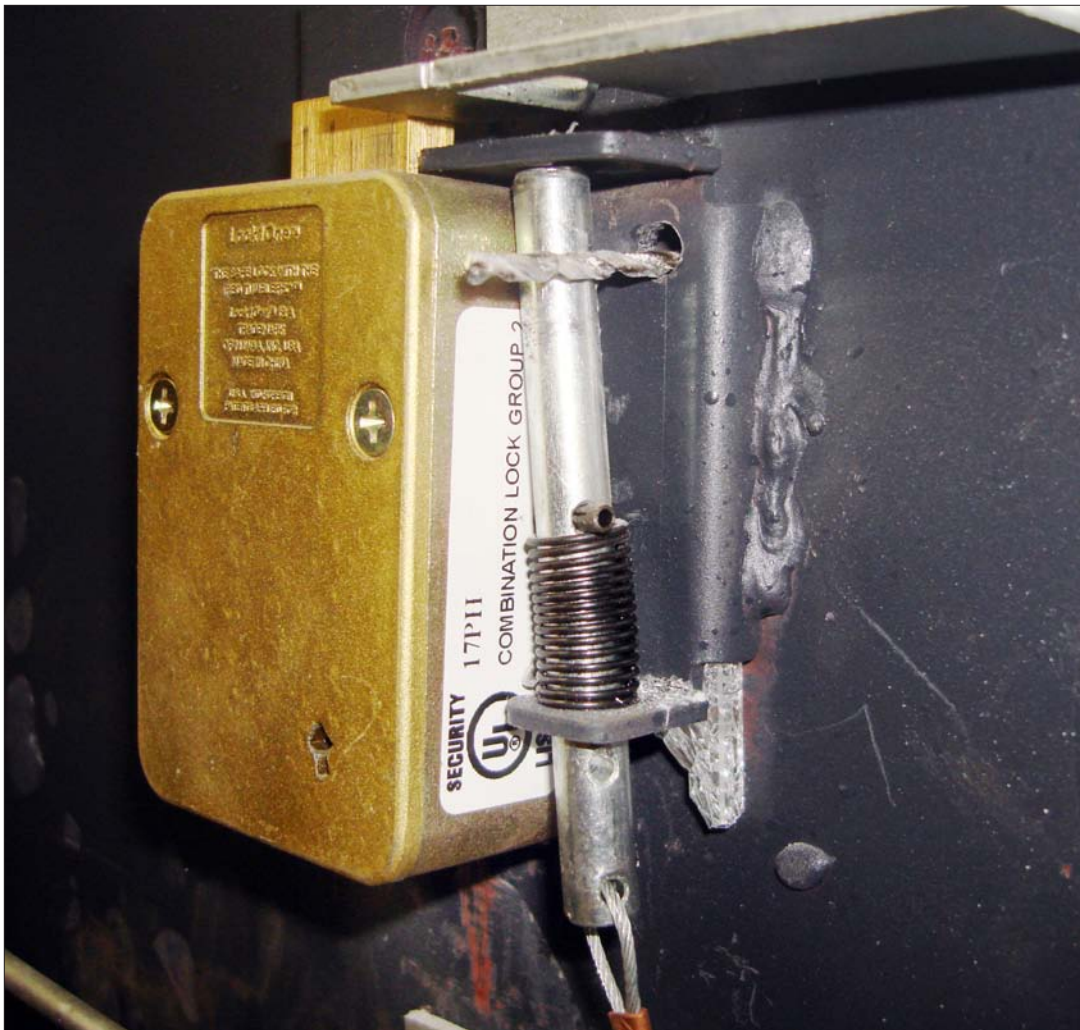


Back panel removed. This is a 1-way boltwork, with four door bolts on the opening side.

The lock is mounted VU. Alongside and running parallel to the lock is the external relocker. When I spun it retracted with a drill bit, it cocked itself off to one side, exposing the drilled hole.



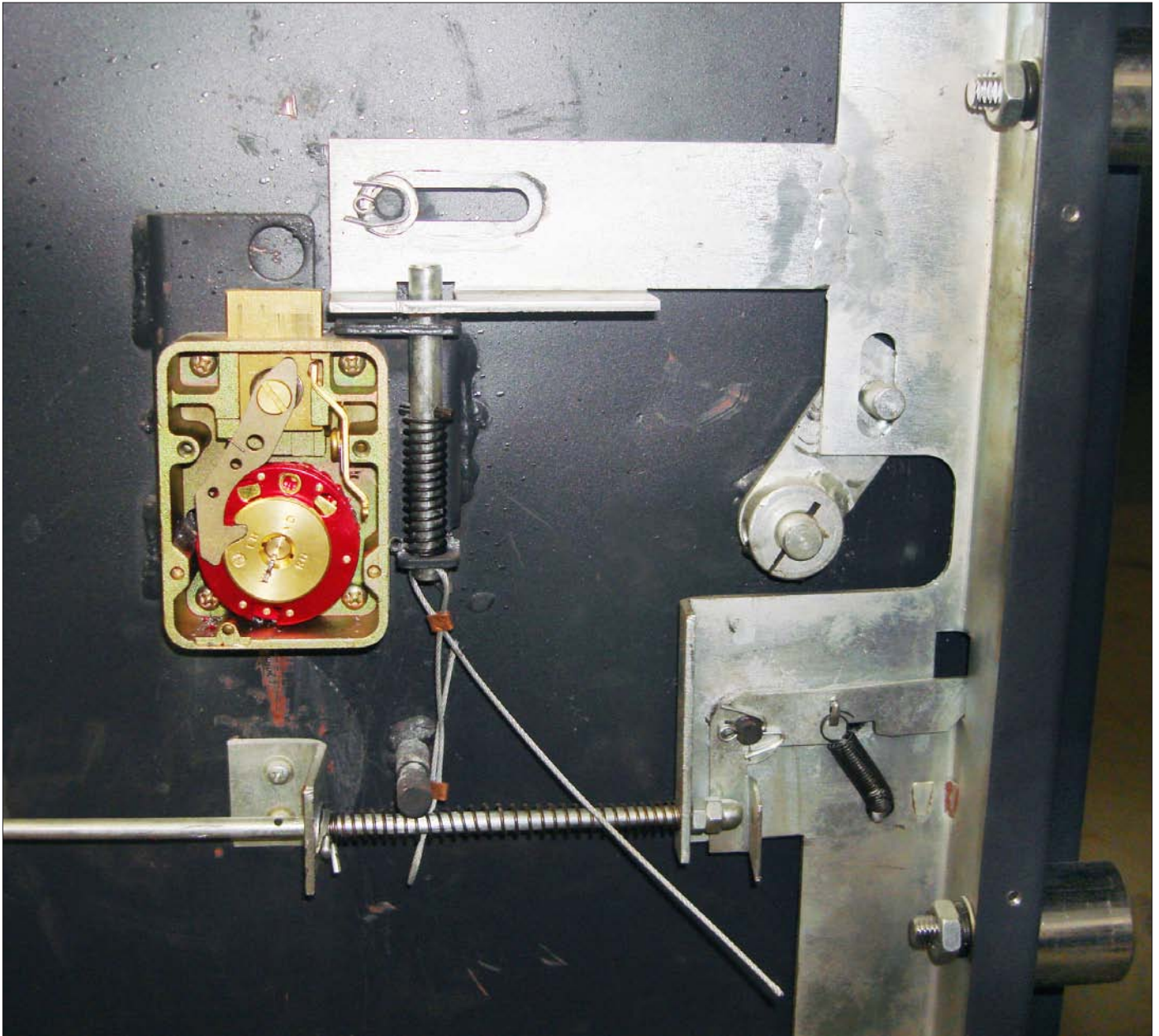
Total door thickness is just a smidgen over 4-1/2".



The 1/4" drilled hole was close to being perfectly centered on the RL. So we used a smaller bit to flex off to one side of the RL to spin it retracted. Note: had our drill bit been on the other side of the RL, we would have put our motor in reverse to spin down the RL.



Glass in bottom of door.



Back cover of BigRed removed; external relocker in fired position.



HHM Fire Vault



Herring-Hall-Marvin fire-resistive vault door. Was used for years with dial taped in unlocked position, and then somebody removed the tape and spun the dial.

Dial and handle.



Most HHM fire vaults use an L handle, but a few use a big T handle. Both use a big fancy nut like this one which makes ID a snap.



HHM hinge. Similar to the arrow-shaped straps used on some of their fire safes, but with the point squared off.



Old UL label.

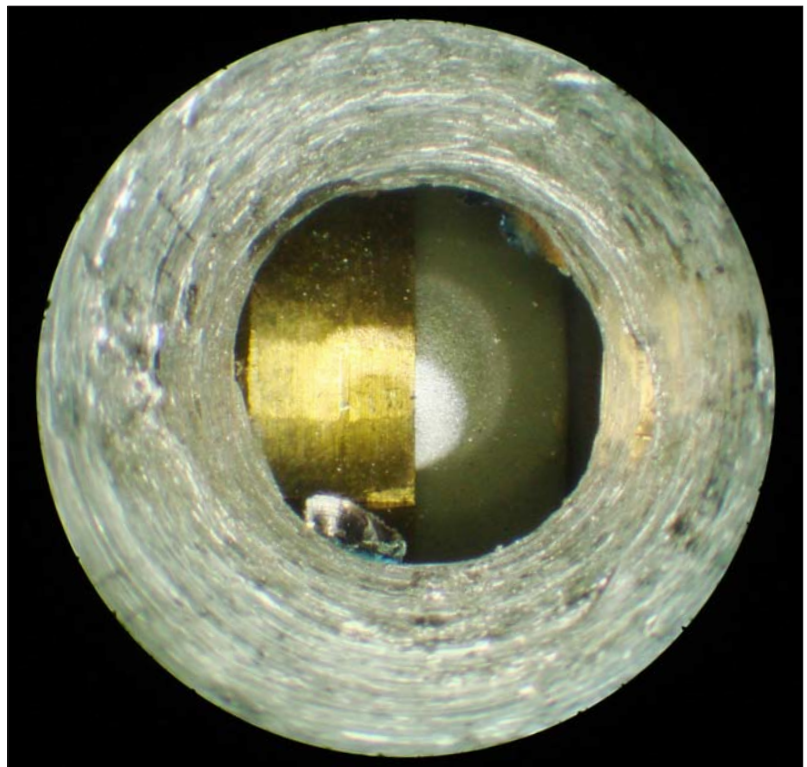


Notice the unusual location of the changing index, a little more than 8 digits to the right of the opening index. This indicates a true LH lock, which makes sense, given the age of this door and the fact that its hinged are on the left.



The drill point is 3-3/4" R. This puts us right at the end of the hinged lock bolt. We insert a small, stout wire with a 90 bend on the tip, hook the end of the lock bolt and pull. Turn handle, the vault is open. Handle is in unlocked position.

Tired from a very long drive, I got right to business and drilled to take advantage of the emergency escape device. This is the view through the drilled hole. We see the tip of the lock bolt. Perfect.





Old SMNA label. (I wonder why they put UL on the outside, and SMNA on the inside?)



Back side of door with back panel attached.



Emergency escape device on back of door.



Emergency escape device in unlocked position.

Depressing this plunger is the first step in the escape process. We'll talk about what the plunger actually does in a few more pages.



Plunger depressed. At this point the escape handle (or the outside handle for that matter) can be rotated to retract the bolt work.



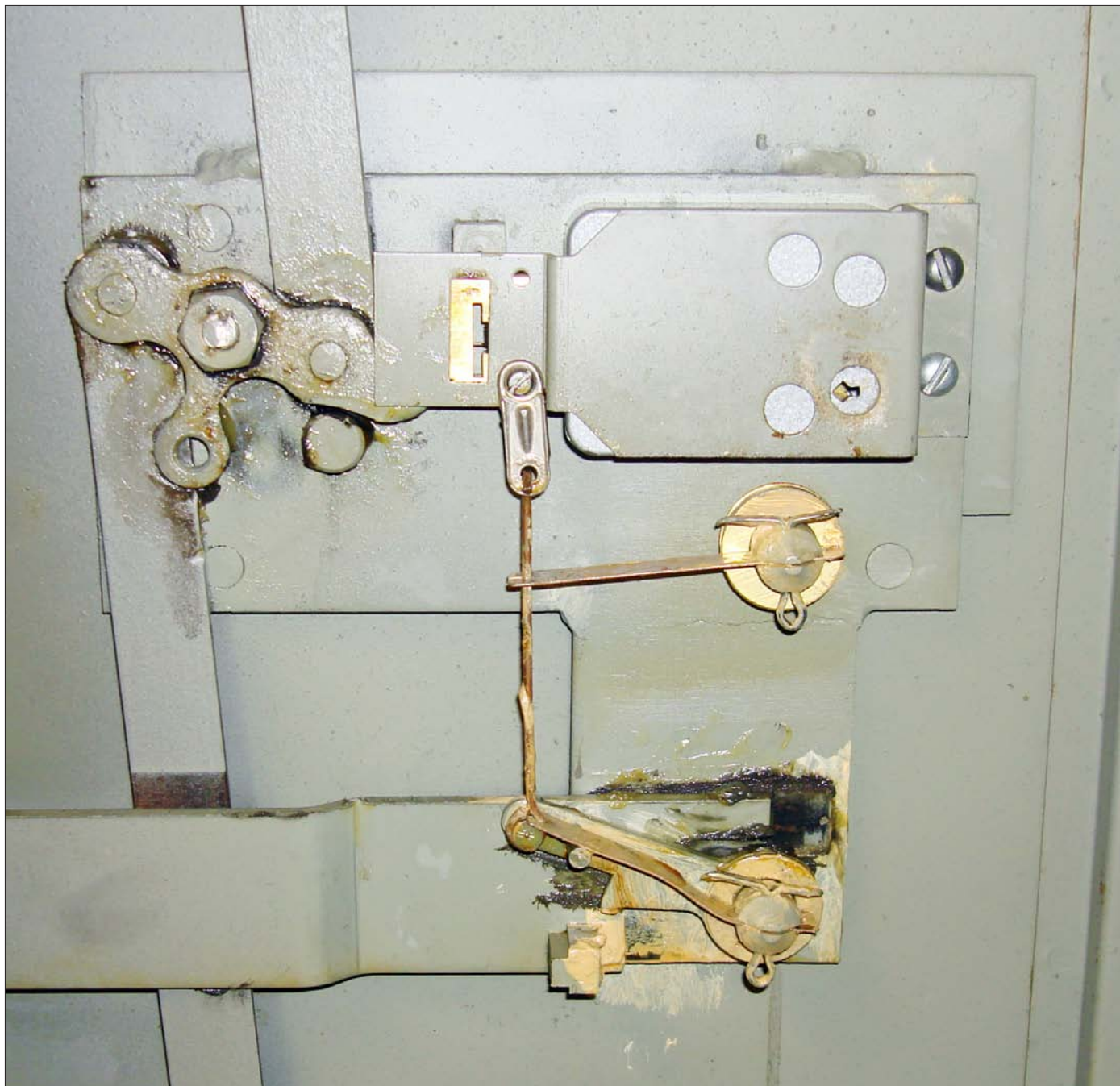
The back panel, removed.



The plunger is on the left, the handle assembly on the right.

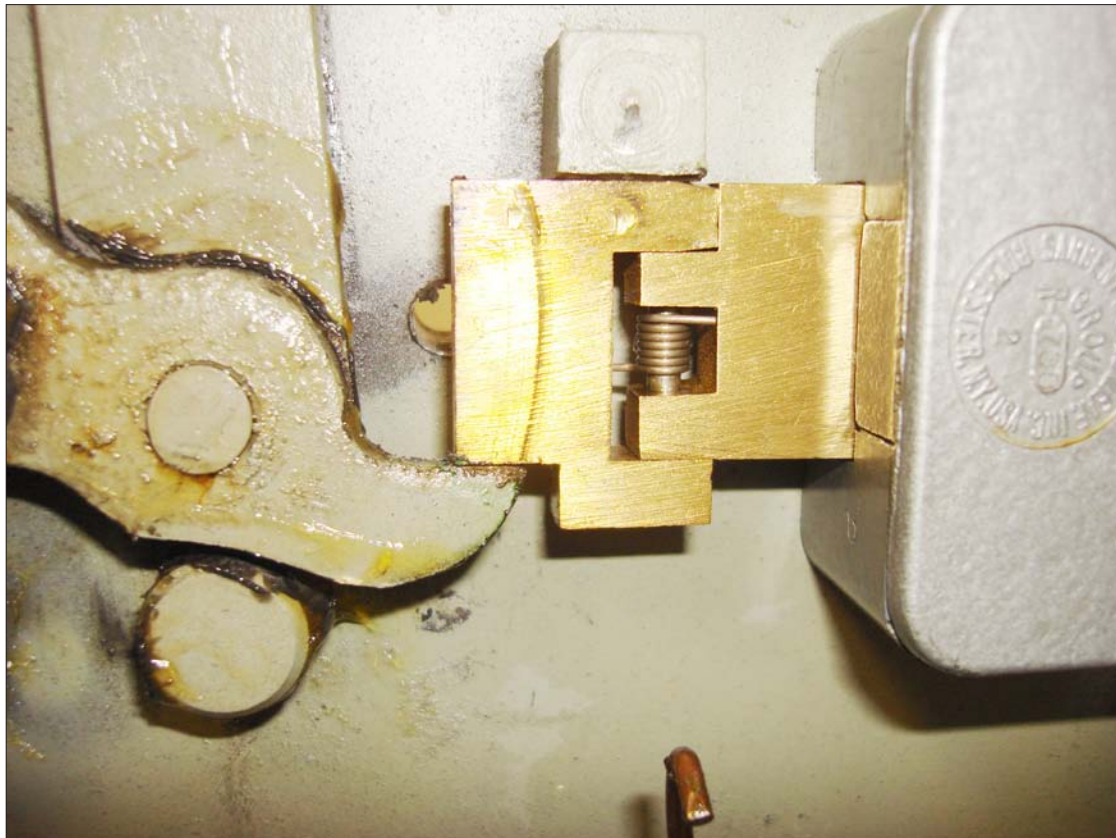
Back side of door with back panel removed. This is a 2-way bolt work, with four door bolts on both the opening and hinge sides.





Close-up of area around lock, relocker, and handle assembly. FYI: the post the RL rides on is 6-1/8" down from dial center.

Close-up of lock, which is mounted LH. Let's zoom in on the hinged, extended lock bolt.



The extended lock bolt is hinged. Why? Remember the plunger on the emergency escape device? Well, when the plunger is depressed, it pushes in on the hinged lock bolt and moves it out of the way of the handle cam, allowing the handle to be rotated. Clever!

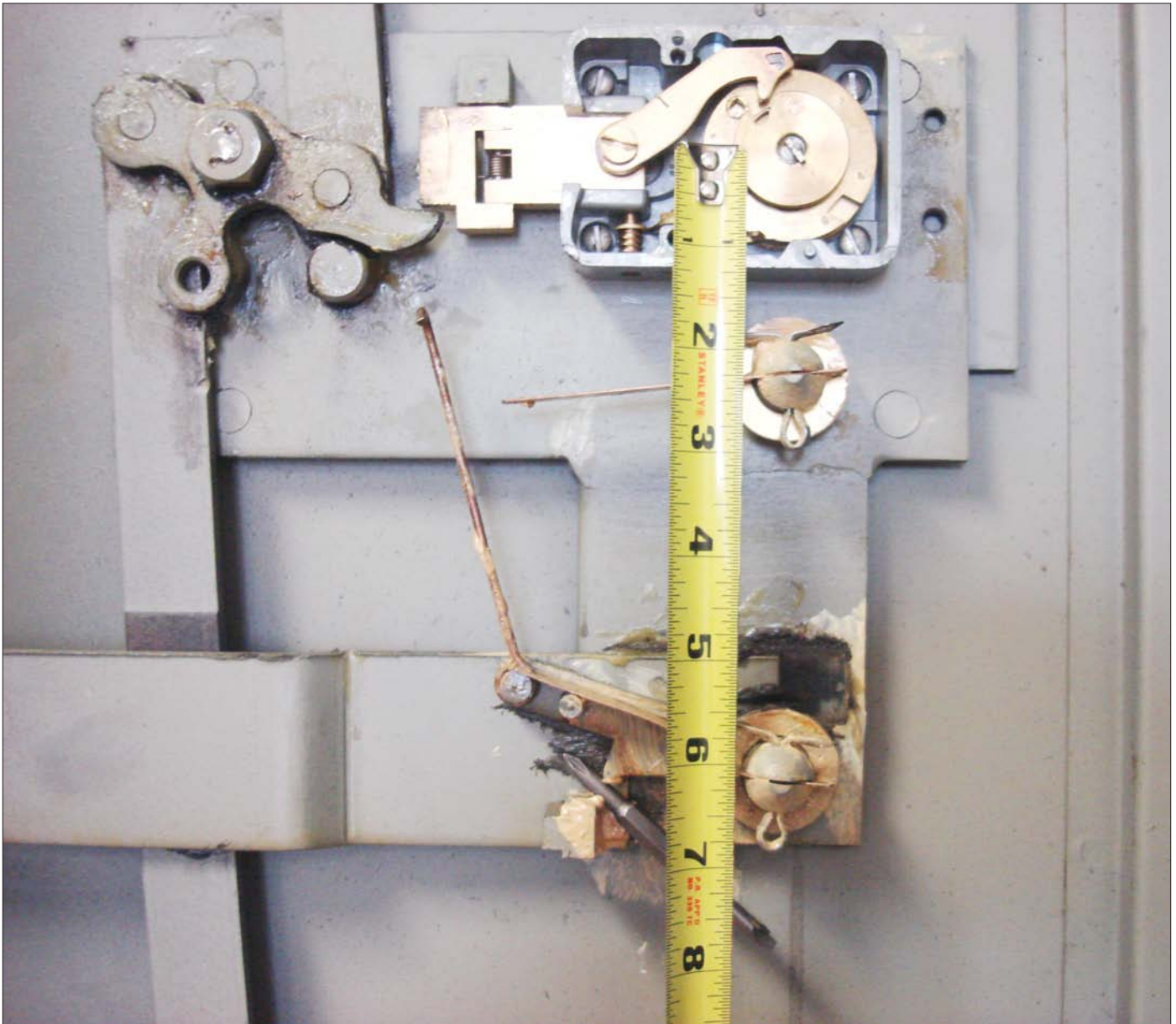


Let's reenact the opening. Sticking through the drilled hole is a stout wire with a 90 degree bend hooking the tip of the lock bolt.

Hinged part of lock bolt has pivoted far enough to where it no longer blocks the handle cam.



Handle cam rotated to unlocked position.



Back cover of S&G lock removed, revealing a true LH lock. Note: the dialing procedure on a true LH lock is opposite that of a RH lock. To open this lock you dial:

1. 4 x R to first number
2. 3 x L to second number
3. 2 x R to third number
4. 1 x L to stop



2-Scope Kit



The two most valuable scopes a tech can own are medical-grade arthroscopes in 0 degree and 70 degree directions of view. Long scopes, flexible scopes, videoscopes and microborescopes are great, but they are add-ons to the must-haves shown here. In this kit are a 0 degree and a 70 degree, a super bright light source that uses a CR123 battery, and it all comes in a compact, foam-lined pistol case. I have several dozen of these, by every maker: Storz, Wolf, Dyonics, ACMI, Linvatec, Olympus, Stryker, etc. As always, they are first-come, first-served. Email me!

2-Scope Kit, with light source and case

\$1250 plus \$15 shipping

Dave McOmie

email: davemcomie@mac.com

Quality Control Labels



Every good safecracker approaches every job with an eye toward the repair. We don't like holes in exposed places, especially on safes that will require a trip to the paint store for a good match. What's the alternative? Enter Bill Boughman and his "Quality Control" labels. The diameter of a quarter (see pic) and about half as thick, these awesome little cover plates are available in silver and in gold. They are perfect for covering a repair in an exposed area, and they look like they belong there. For a limited time, they are on sale to NSO members at twenty bucks for a 10-pack (regularly \$25). If you order online, use coupon code NSO to get the discount. Thanks, Bill!



Quality Control Labels

10 pack (five silver, five gold).....reg \$25.....**NSO Special \$20**

Order online at shop.bblocksmith.com

or call Jeanne at (239) 262-2000

ID ME #1

Looks kinda sorta Canadian, but I can't find a match. Can you?





ID ME #2

The distinctive hinge and the way the handle arm connects to the bolt bar scream Surimax. But I cannot confirm. Can you?



ID ME #3

Drilled this one years ago and it has languished in my Unidentified folder. Closest thing I have is an oddball Meilink from the late 80s. How about you?

