

Brinks Safe Model 5118D Opening and Rekeying

I received a call to open a Brinks safe model 5118D, the owner had the override key stolen and wanted the key lock changed so the old key wouldn't work.

This safe has a key lock, which has two functions, if you turn the lock with the override CCW it overrides the digital combination lock. You can also open the safe by inputting your digital combination and turning the key lock CW and that will open the safe.

I opened the safe by picking the key lock to override the digital combination, because the owner never used the digital combination. The owner always used the override key to open the safe, and override the digital lock.

The key lock is a four-pin lock with two extra chambers at the end of the plug. These two extra pins allowed the use of two different keys to open the safe. If you use the key with 4 main cuts plus 1 extra pin the key lock will only open the safe if you input the correct digital combo first. If you use the key with all six cuts on it, the safe will open without inputting the digital combo, because this is the override key.

I took lots of pictures to show the inside of the safe, and also to show a way to bypass the digital combination lock on this safe.

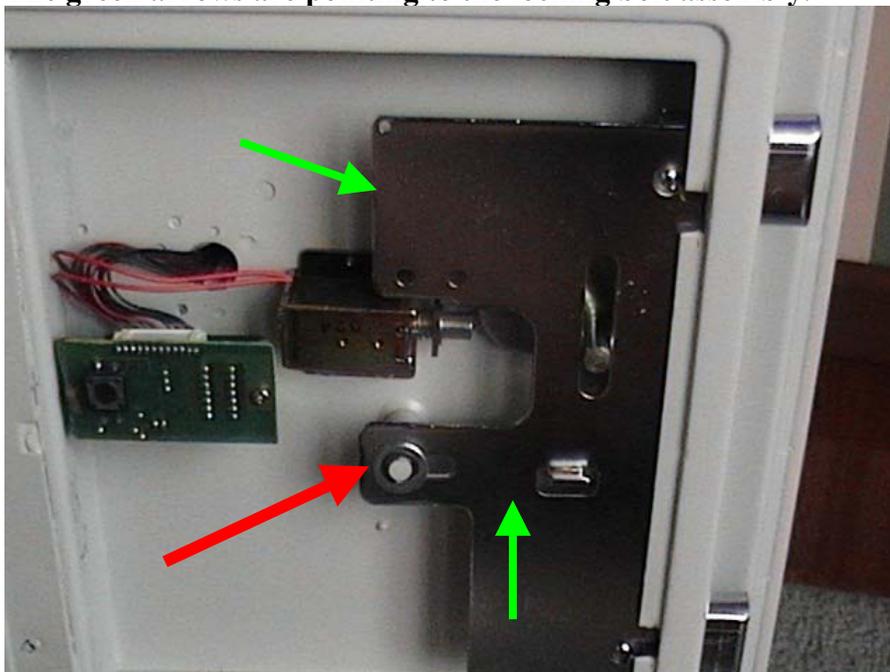
The picture below shows the safe that I serviced in this article. I had already removed the key lock in this picture.



Below is a close-up shot of the key lock and digital keypad.



Step One-Remove the locking bolt assembly, removing the C clip and washer indicated by the red arrow in the photo below. Slide the bolt to the left to remove it. The green arrows are pointing to the locking bolt assembly.



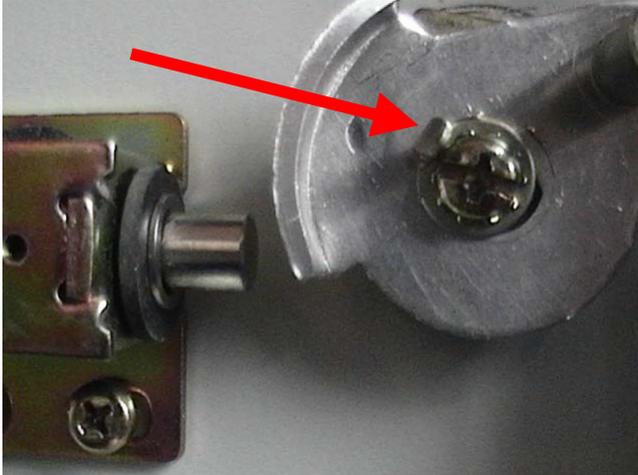
The picture below shows the back of the key lock after removing the locking bar slide assembly.



Step two- Remove the screw holding the tailpiece on the back of the lock, to do this you need to bend the

locking tab away from the end screw head. The red arrow points to the locking tab, this keeps the screw

from coming loose and the tailpiece falling off the back of the plug. If you come across one of these and the key turns but doesn't unlock the safe this might be what happened.



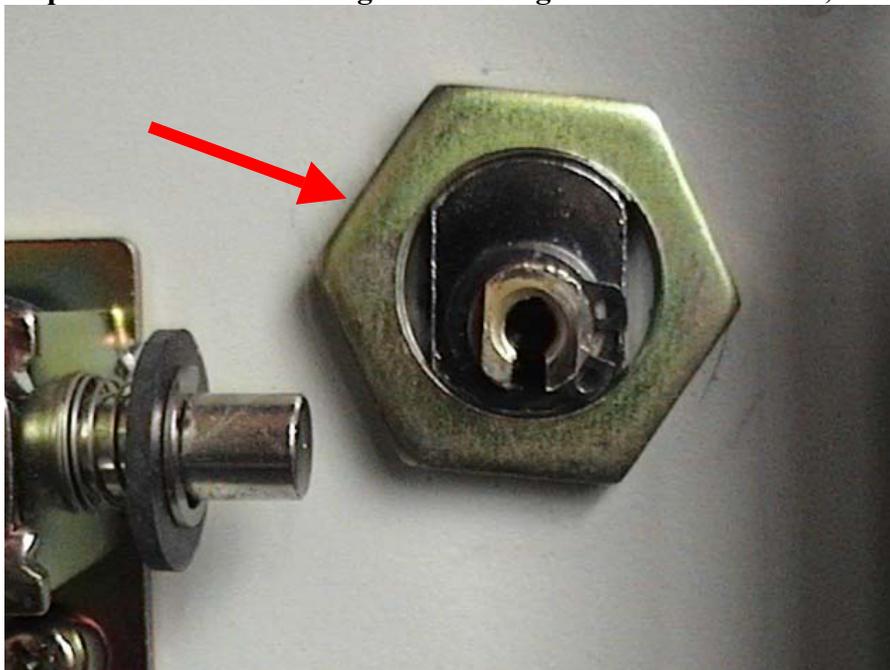
The picture below is what you will have after removing the screw and locking tab washer.



Step Three- remove the lock tailpiece in the above picture. The picture below shows the tailpiece removed.



Step Four- remove the large nut holding the lock in the door; the red arrow points to the nut.



The picture below show the nut removed, now just slide the lock out the front of the safe.



The pictures below show the lock after removal.





Next is the lock disassembly for rekeying to a different key.

Step one- remove the snap ring from the back of the plug. The picture below show the snap ring removed.



Step two- remove the plug, you need to pick the pins at the same time and walk the plug out of the front of the shell. I didn't have a follower at the time so I improvised with .375 highlighter pen casing, it needs to be about 4 inches long.

Step three- Determine the old key cuts (so you don't make the new key cuts the same), cut the new keys you are going to use. I improvised here due to the very small pins, Master padlock pins are pretty close to the correct diameter of the pins. I DIDN'T verify that they would work in this lock. I rekeyed the lock by using the same pins by changing the pins around in the plug, and then I cut a key by hand.

The picture below is the old override key I made first.



The picture below is the new override key I hand made for this lock.



The last key below is the new key that is used with the digital combination to open the safe.



Spaces and Depths of the keys

Spacing shoulder to first cut-	.148
2 nd cut	.296
3 rd cut	.444
4 th cut	.592
5 th cut	.740
6 th cut	.888

Cut to cut spacing is .148

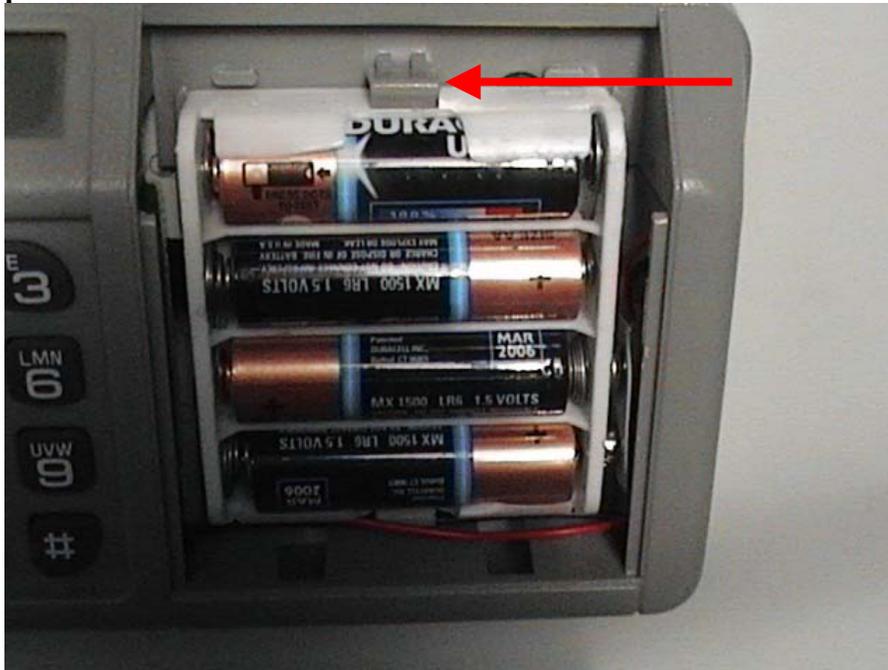
Depths for code 3702 .258/.283/.283/.258/.225/.221 this is the override key.

Bypass Technique to Open The Safe

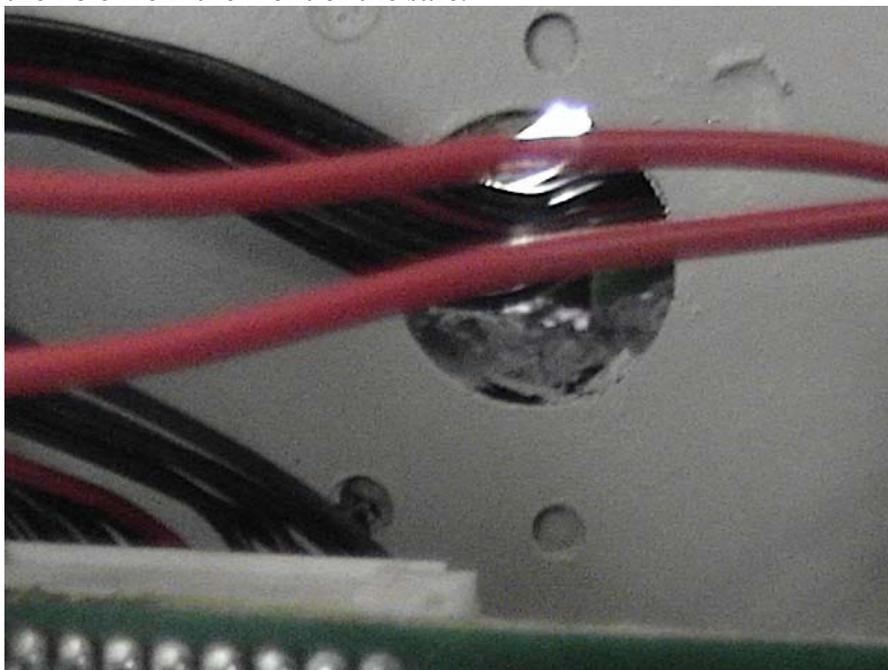
Remove the battery compartment door on the front of the safe, picture below shows it removed.



Next remove the battery pack, by prying up the locking tab shown in the picture below, the red arrow points to the tab.



You will find a hole going through door; the picture below shows the hole. I shined a penlight through the hole from the front of the safe.



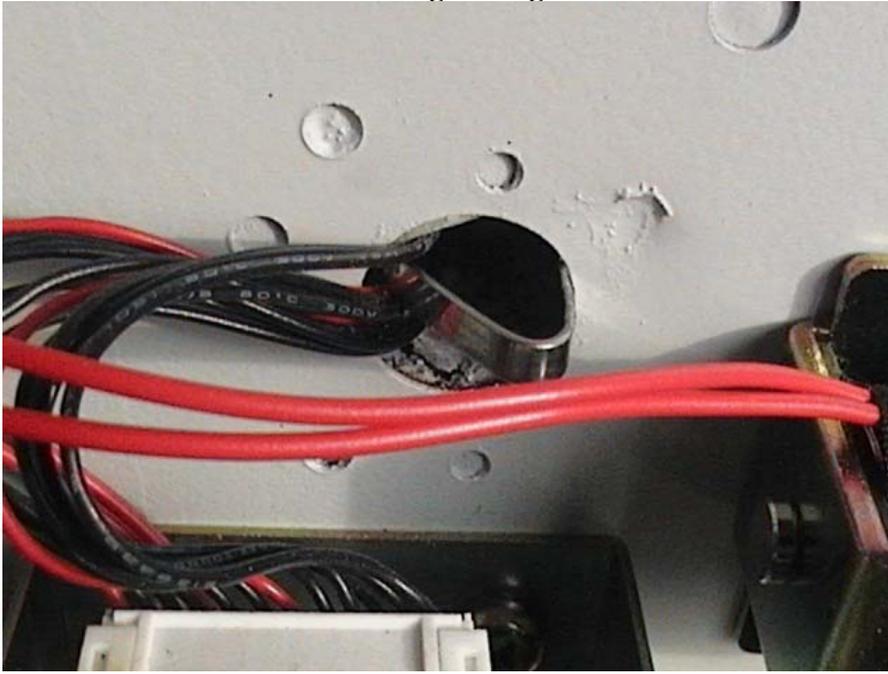
The next pictures show what I did with a windshield wiper metal blade.



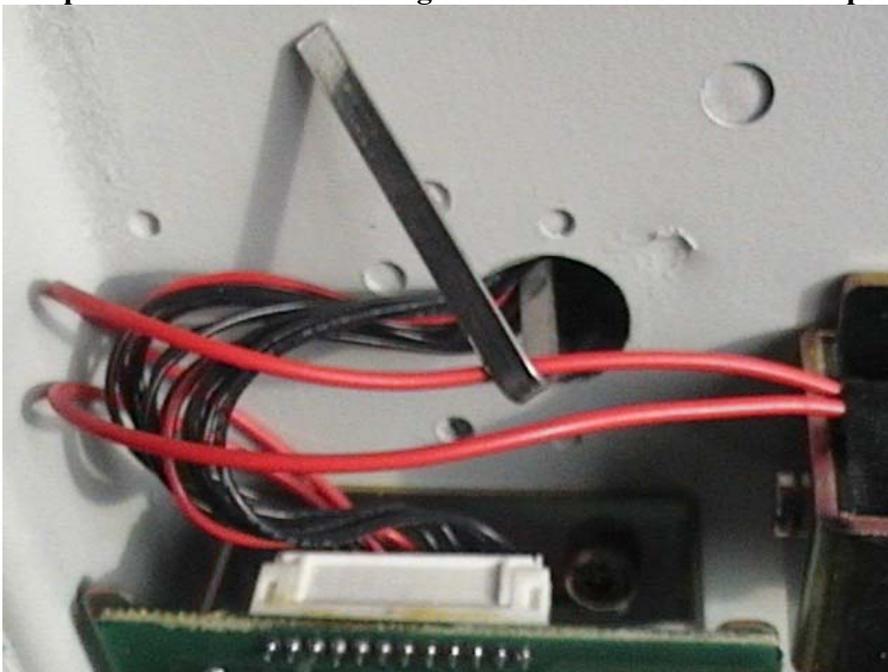
Picture below shows the tool going inside the door.

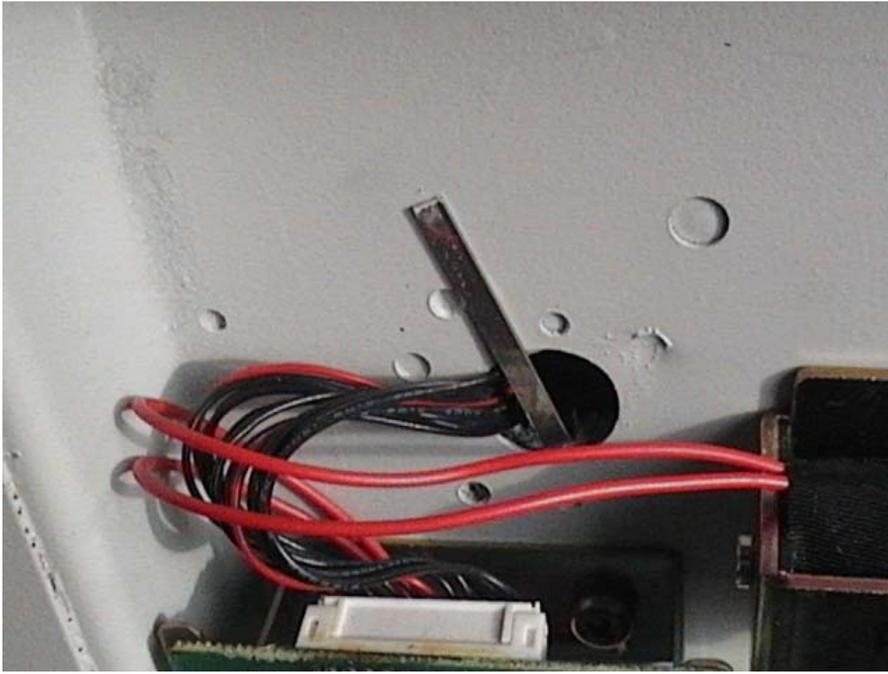


Picture below shows tool coming through the inside of the door.

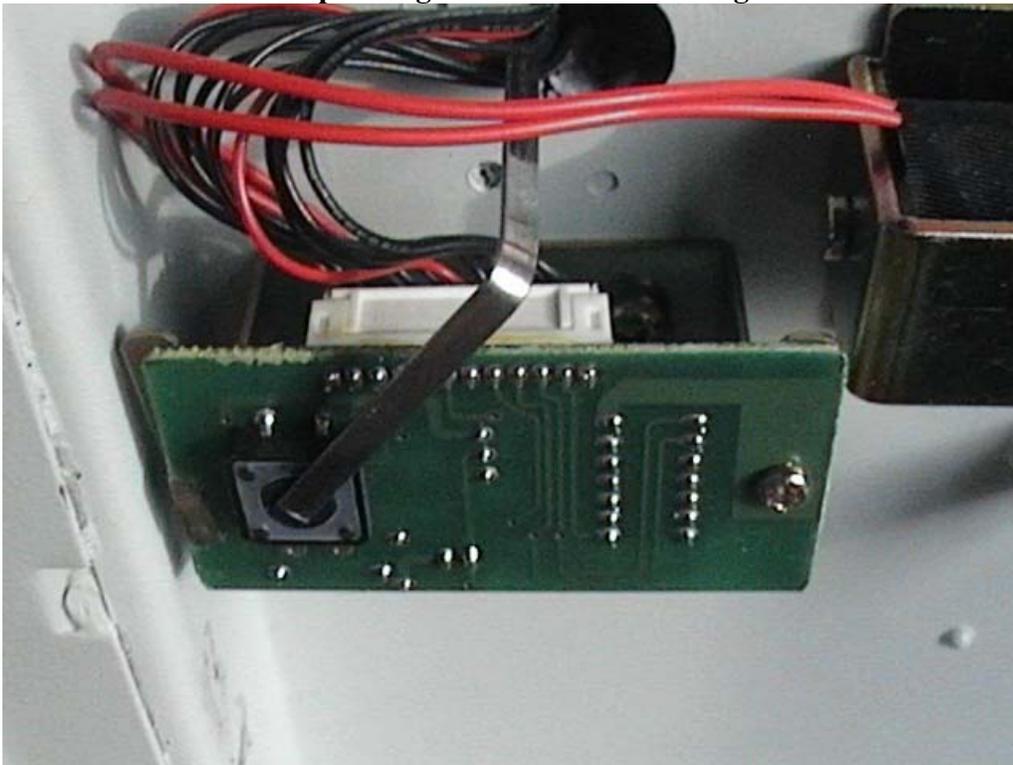


The pictures below show taking some of the bend out of the wiper blade by pulling it against the door.

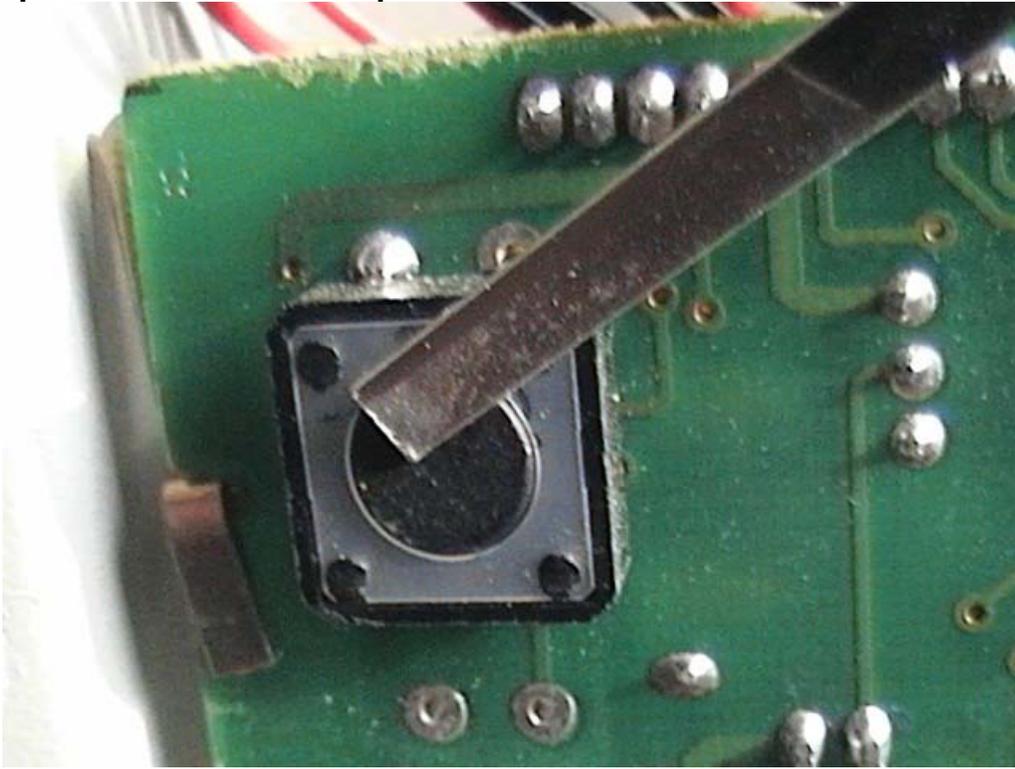




Picture below shows depressing the combination change button located on the circuit board.

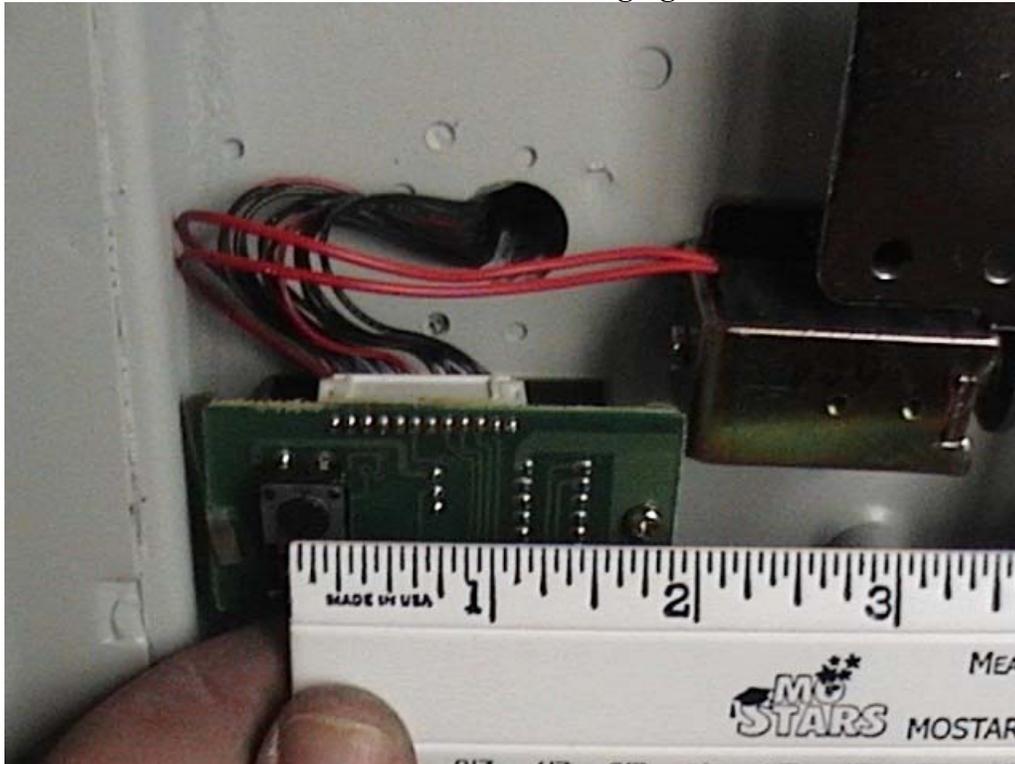


Picture below is a close-up of shot of pushing the button, until it beeps. Then enter a code on the keypad and push the # button to save the combo. Remember what code you just entered so you can open the safe in the next step.



Here is how to open the safe with the new combination. Pick the key lock and enter the combo, enter * new combo and then # , when solenoid retracts turn the lock plug CW to open.

Measurement from hole to combination changing button.



Picture below shows the thickness of door from the front to the locking bolt.



Door thickness is shown below.



Inside pictures of the safe door.

