EX-SERIES

Service Manual

Proxess

To learn more: visit www.proxess.com or call (303) 317-6656

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TECHNICAL SUPPORT

The first source for technical answers is this EX Series Install Manual. All documentation and training materials are also available on our website: www.proxess.com. If you are not able to find an answer in this manual, contact your local Proxess Representative. If you do not know your local Proxess Representative, contact the Customer Service Department at Proxess (303) 317-6656.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

User Manual Notice required by Section 8.4 of ISED RSS-Gen Issue 5. Industry Canada Statement:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Industrie Canada l'énoncé

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC ID: 2AKUZPXH01
IC: 22335-PXH01
Product Marketing Name: EX- Series Exit Trim Lockset
Contains FCC ID: SH6MDBT50Q
Models (HVINS):

- XH01-CX03-B (CX-Series Cylindrical Lockset)
- XH01-CX03-DC (CX-Series Cylindrical Lockset)
- PXH01-MX02-B (MX-Series Mortise Lockset)
- PXH01-MX02-DF (MX-Series Mortise lockset)
- PXh01-EX01-B (Ex-Series Exit Trim Lockset)
- PXh01-EX01-DC (Ex-Series Exit Trim Lockset)

ISED REGULATION

This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

1. *This device may not cause interference; and*
2. *This device must accept any interference, including interference that may cause undesired operation of the device.*

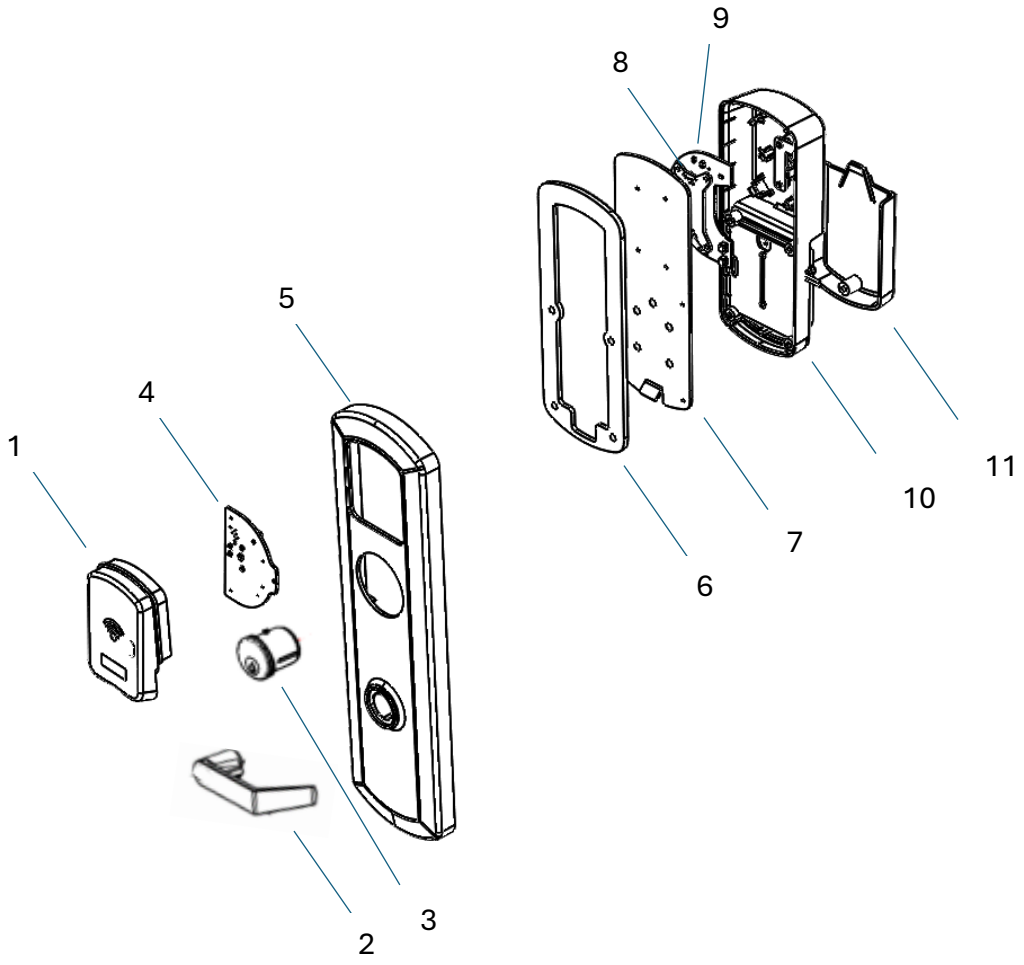
Cet appareil est conforme aux flux RSS exemptés de licence d'Innovation, Science et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

1. Cet appareil ne doit pas provoquer d'interférence; et
2. Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

BATTERY PERFORMANCE AND EXTREME CLIMATE USE

- Proxess locks use four AA batteries and are tested and validated using Duracell Coppertop™ alkaline batteries to over 50,000 cycles with physical credentials and over 70,000 cycles with only mobile credentials. Proxess locks are tested and validated using Energizer Ultimate Lithium™ batteries for extended temperature range support and offer similar performance to Duracell Coppertop™ batteries. However, any quality AA alkaline or non-rechargeable lithium battery should give acceptable performance.
- Average/Expected performance = 2 years (approximately 68 credential entries per day)
- Batteries are not covered under Proxess warranty.
- Disclaimer: Performance may vary based on environment, feature use, credential usage/type, how often the locks are synced, etc. Contact Proxess for questions related to expected performance in your system.
- For heavy usage doors that drain power in less than a year, Proxess recommends either a modified maintenance schedule or the external power feature (specify “EP” feature when ordering).
- Exterior use: Standard Proxess locks are approved for exterior use when the interior trim is not constantly exposed to exterior weather. For locks in which the interior trim is entirely exposed to exterior climates (pool gates, etc.) Proxess recommends the weatherized option (specify “W” feature when ordering). Proxess weatherized locks offer protection to interior electronics from precipitation and improved corrosion resistance. Weatherized locks also feature Energizer Ultimate Lithium™ batteries for extended temperature range support in very hot and cold conditions.
- Reported battery percentages assume the use of alkaline batteries; lithium batteries do **NOT** report correctly.
- Rechargeable batteries are **not** recommended.
- **Avoid** Heavy Duty (Zinc Carbon) or other chemistry batteries.

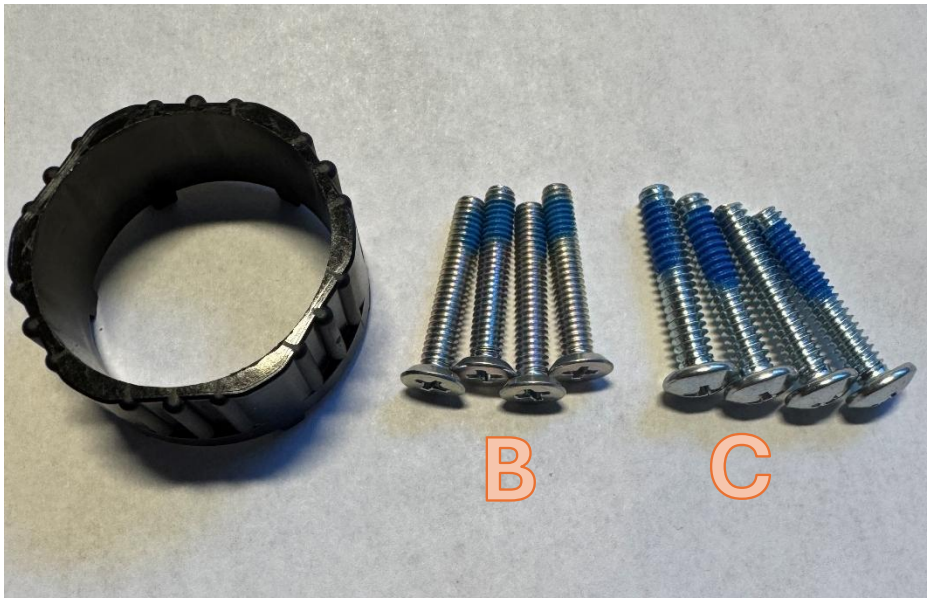
Parts Blowup



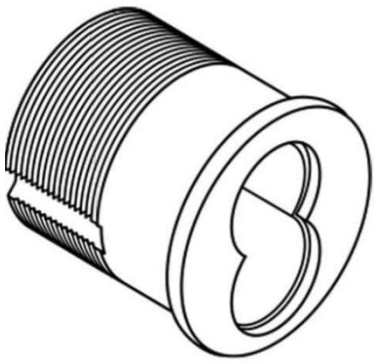
Part No.	Description
1.	Reader Plastic
2.	Lever
3.	Cylinder
4.	Reader Board
5.	Trim
6.	Gasket
7.	Backplate
8.	EZ Connect board
9.	Interior board
10.	Interior Plastic Trim
11.	Battery Door

Hardware pack

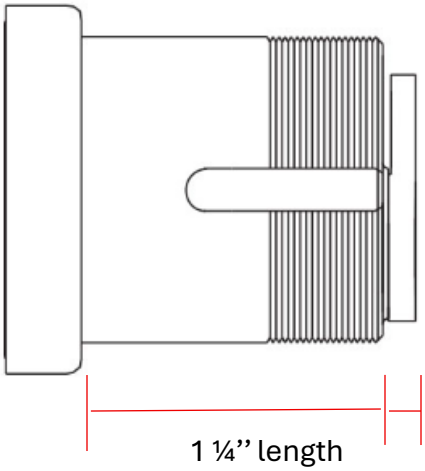
- 1 x Castle Nut Wrench
- 4 x “B” Phillips screws
- 4 x “C” Phillips screws



Cylinder Specs

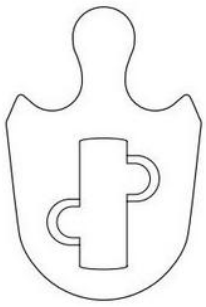


Small Format
Interchangeable Core



1 ¼’’ length

1 3/8’’ with cam

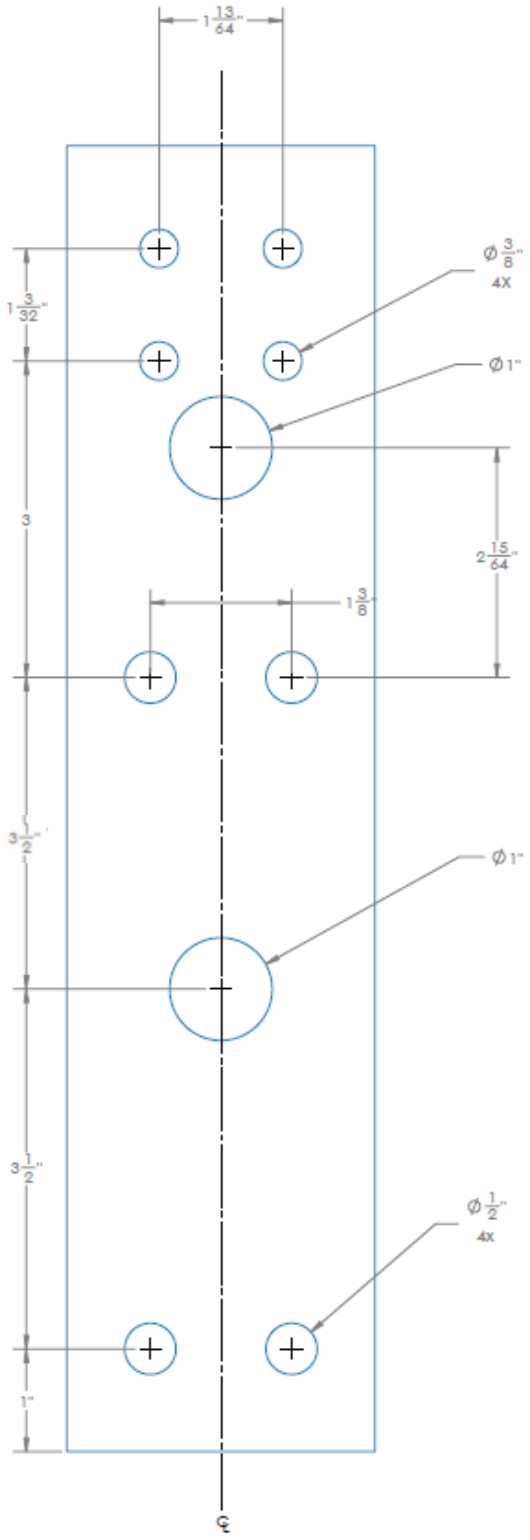


Clover Type Cam

Drill Template

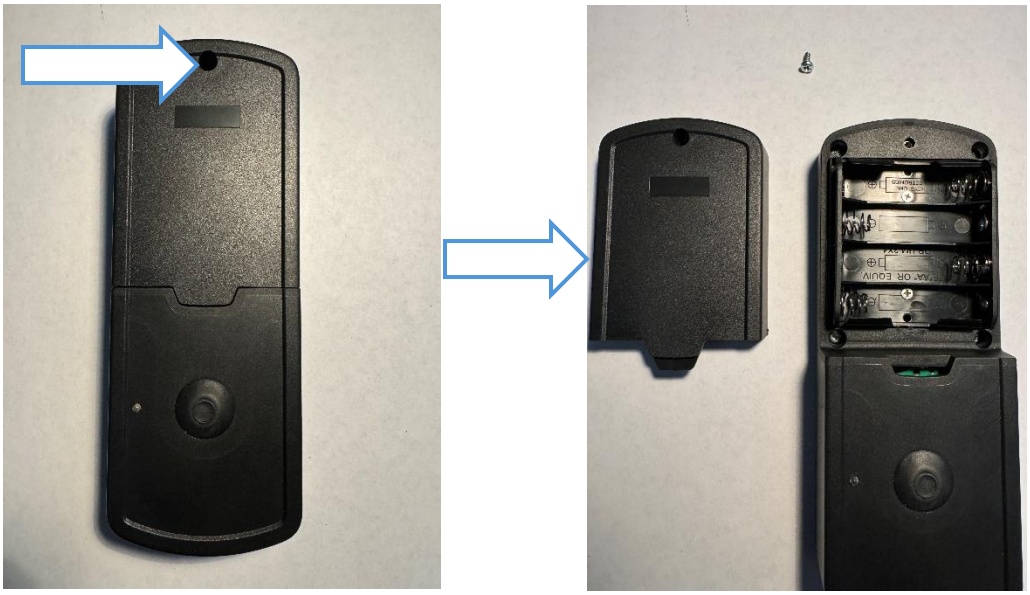
Compatible Rim Devices Include:

- Von Duprin 98 & 99
- Cal Royal 7200 series
- Detex 40 series
- Marks M9900
- PDQ 6300
- Sargent 8810 series (with Proxess adapter plate)
- Precision 2100 (with Proxess adapter plate)



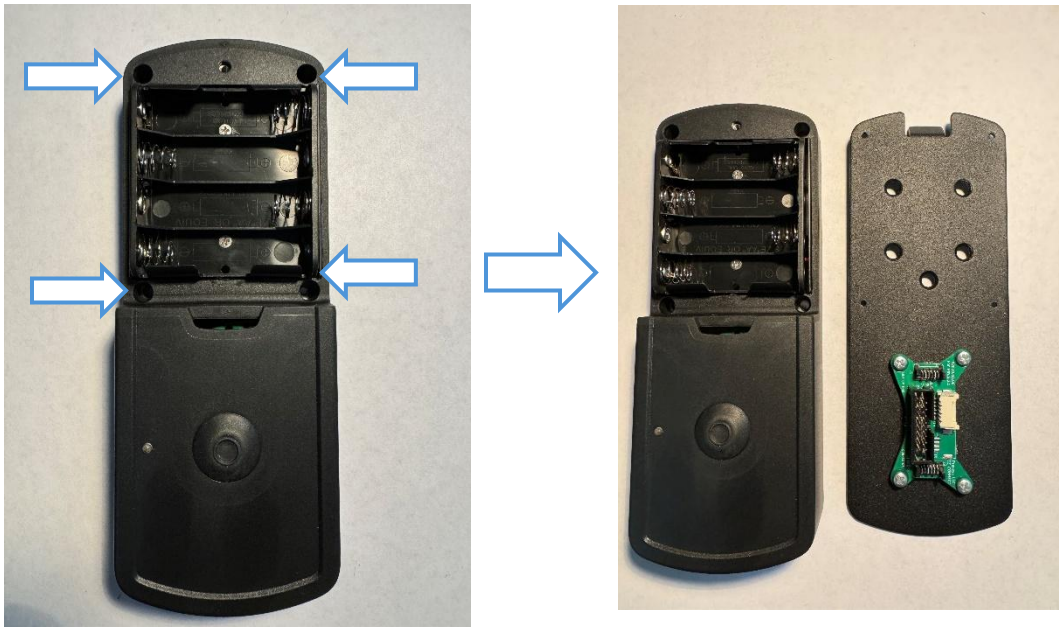
1. Prep Interior trim

a. Remove battery door with Phillips screw

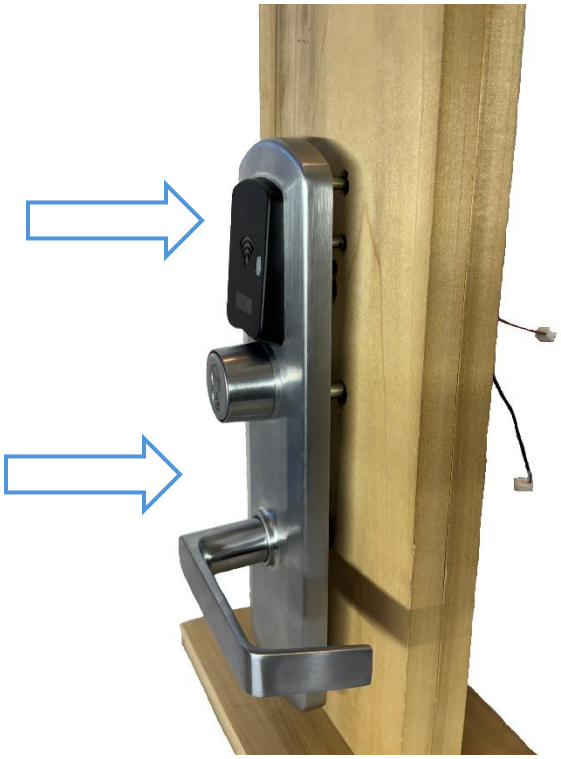


2. Separate the interior trim from the backplate

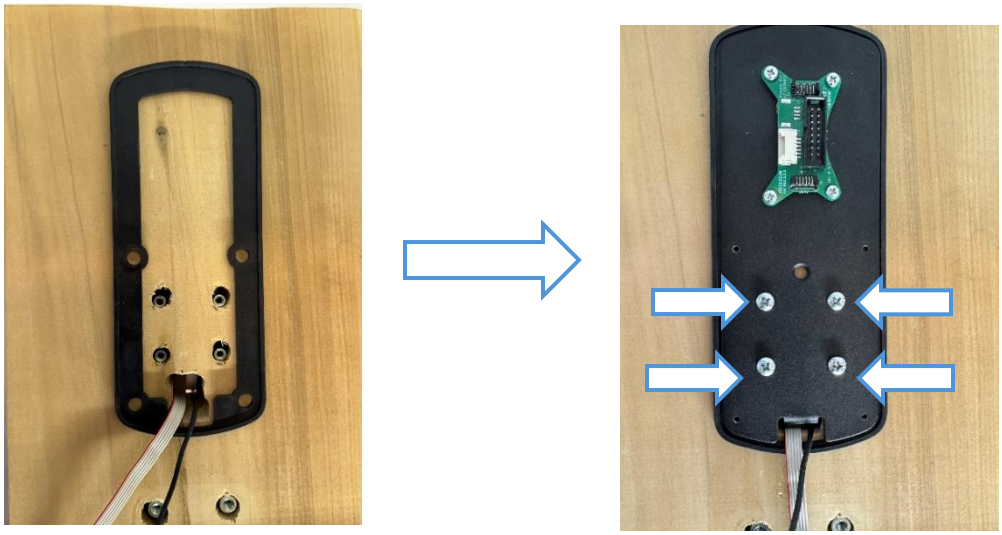
a. Remove 4 Phillips screws



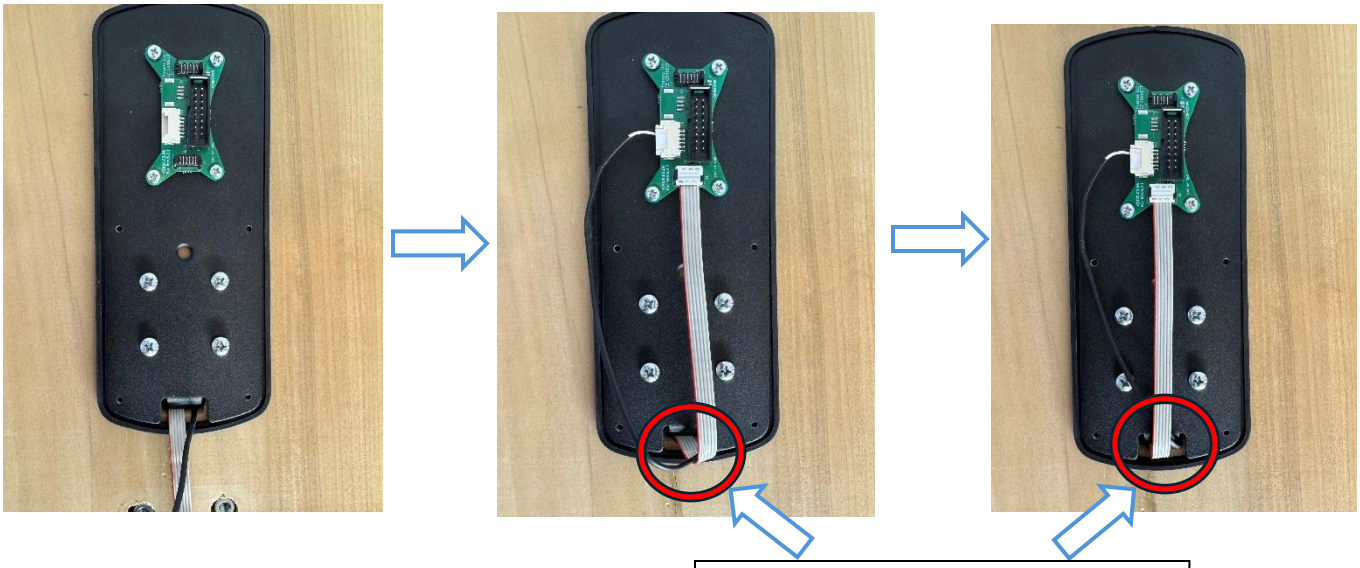
3. **After Prepping the door, insert the exterior trim into the prepped holes**



4. **Install interior trim onto door**
    a. Hold gasket on door and attach backplate to trim with 4 “B” Phillips screws.
    b. Gasket will be held onto door by backplate. The gasket has a lip on the outer edge that should wrap around the back

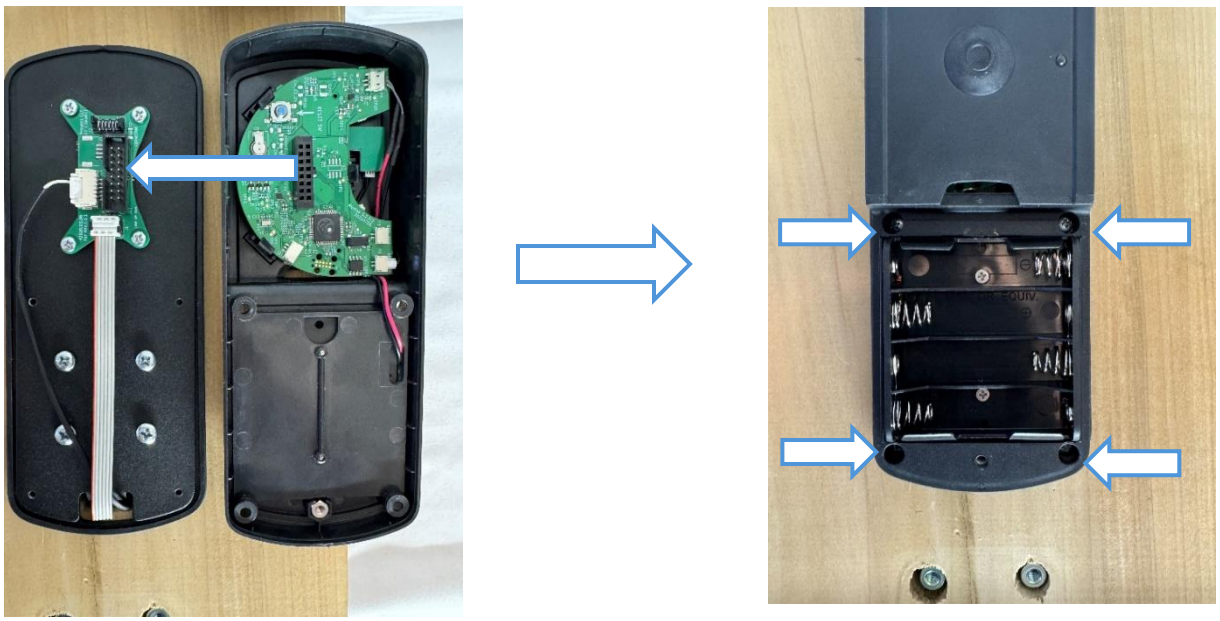


5. **Connect Wires**
    a. Connect 2-wire motor cable and 6 Pin ribbon to EZ connect board
    b. Stow excess cable in door space

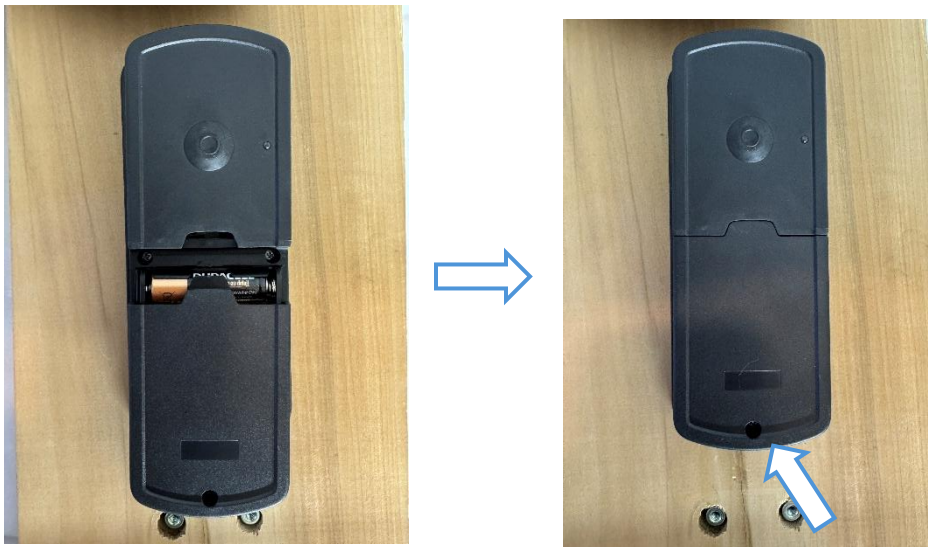


Ensure extra cable is stowed to prevent the wires from getting pinched

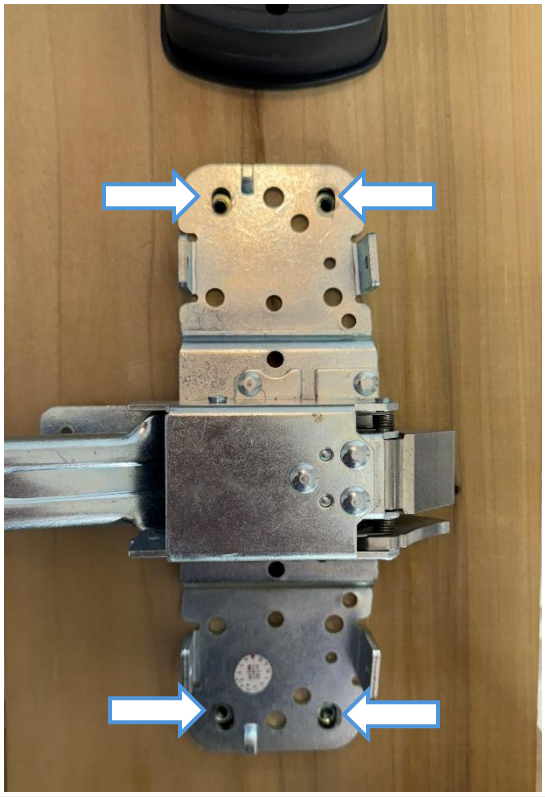
6. Plug female 16-pin connector on the exterior trim onto the EZ-connect boards male connector
    a. Secure exterior trim to backplate with 4 Phillips screws



1. Secure battery door with Phillips Screw



2. Install Exit Device
    a. Secure head with 4 “C” Phillips screws
    b. Compatible with Vonduprin 98/99 rim & Detex 40 series rim devices. Contact Proxess to get a full list of compatible hardw



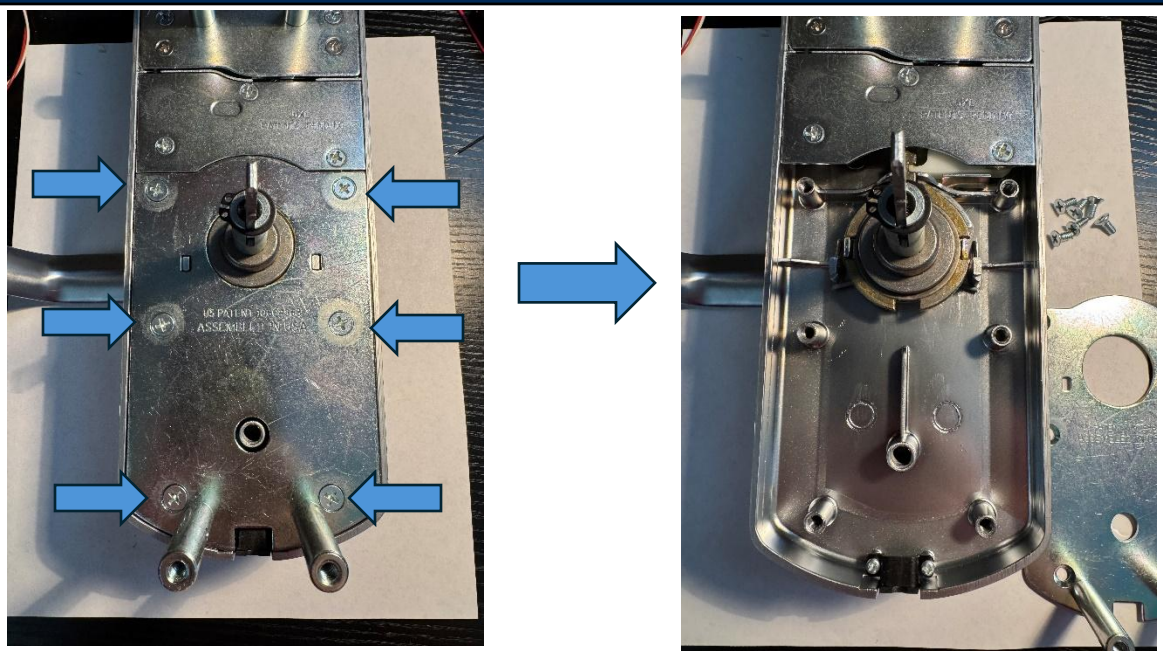
Rehanding Guide

- To change the Exit trim handing the rotation limiter (shown below) must be changed inside the device. They are specific to RHR and LHR configurations. This process is the same for converting to RHR or LHR.

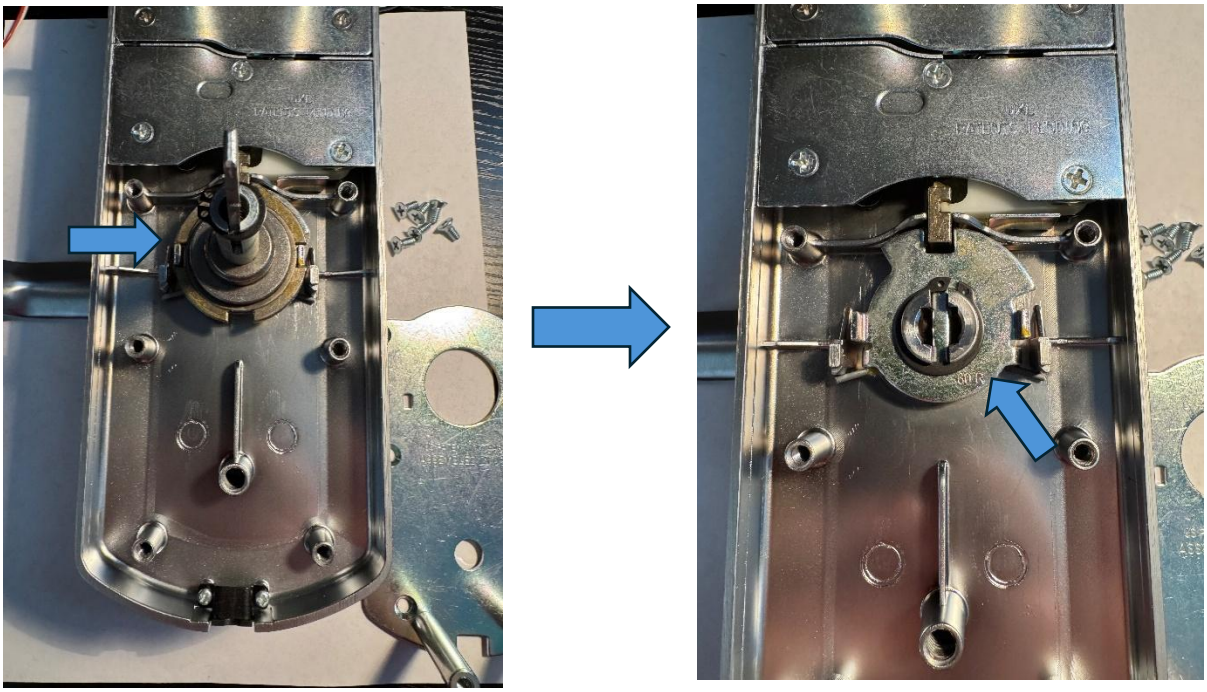
LHR RHR

Note: The Limiters are two different parts included in the box, not the same part mirrored.

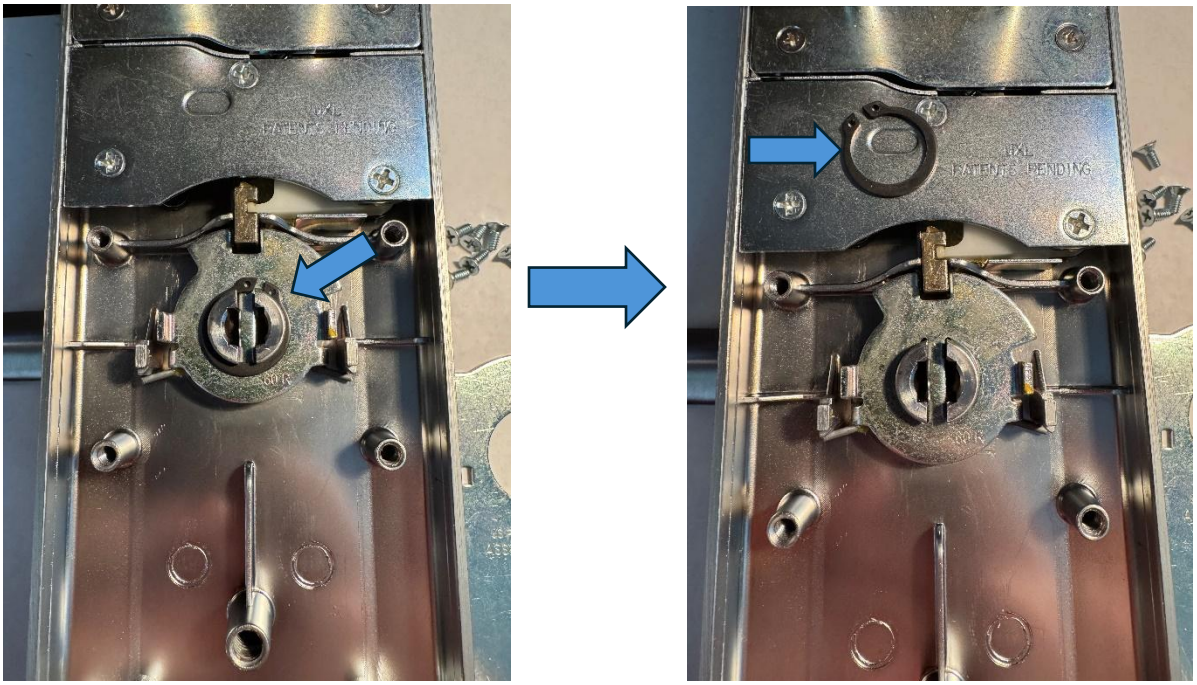
1. Remove the 6 Phillips screws from the bottom portion of the backplate and remove the part entirely



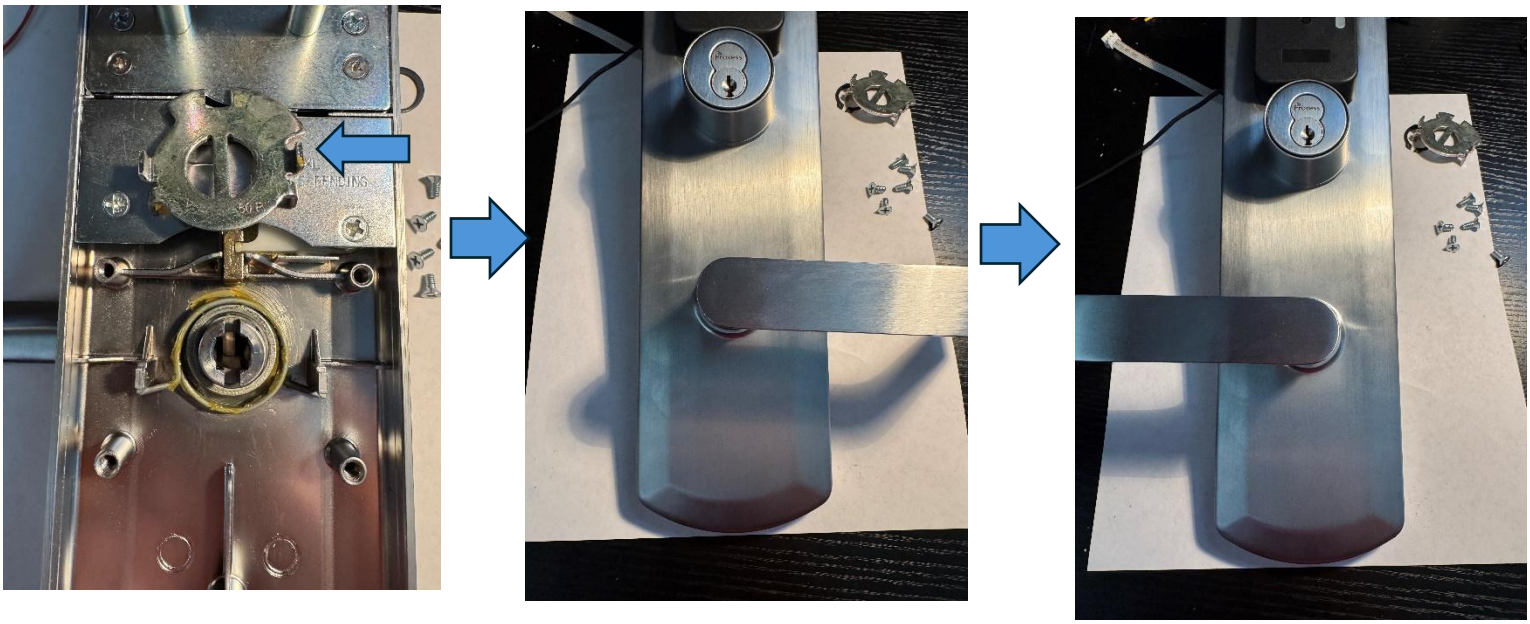
2. Remove the spindle to expose the rotation limiter



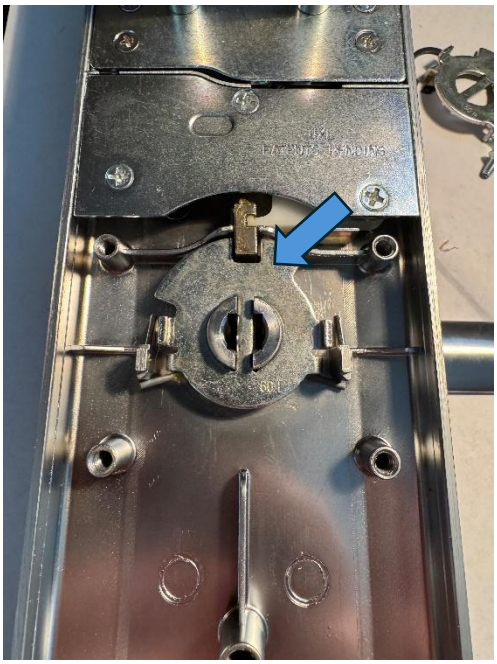
3. Using snap ring pliers remove the snap ring securing the rotation limiter in place

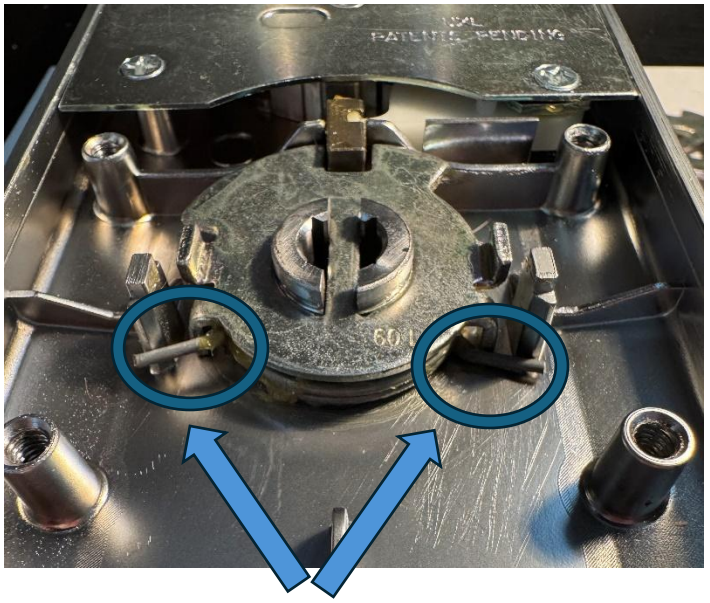


4. Remove the rotation limiter and turn the lever 108 degrees (do this carefully as there will be nothing holding the lever into the trim at this point)



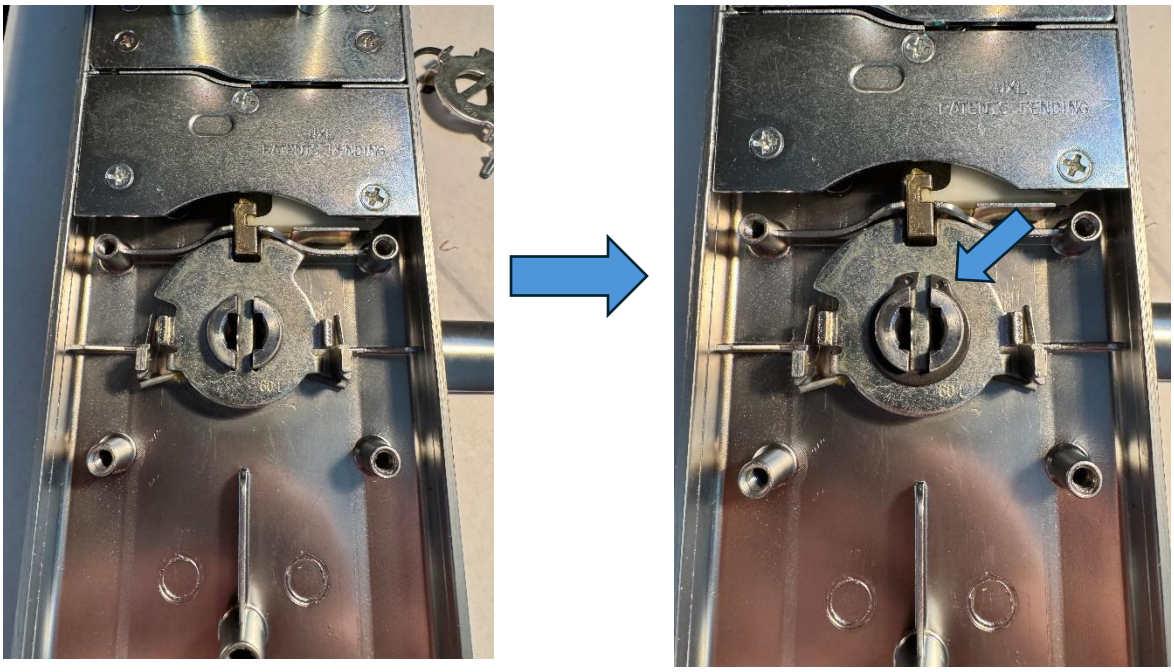
5. Install the new rotation limiter



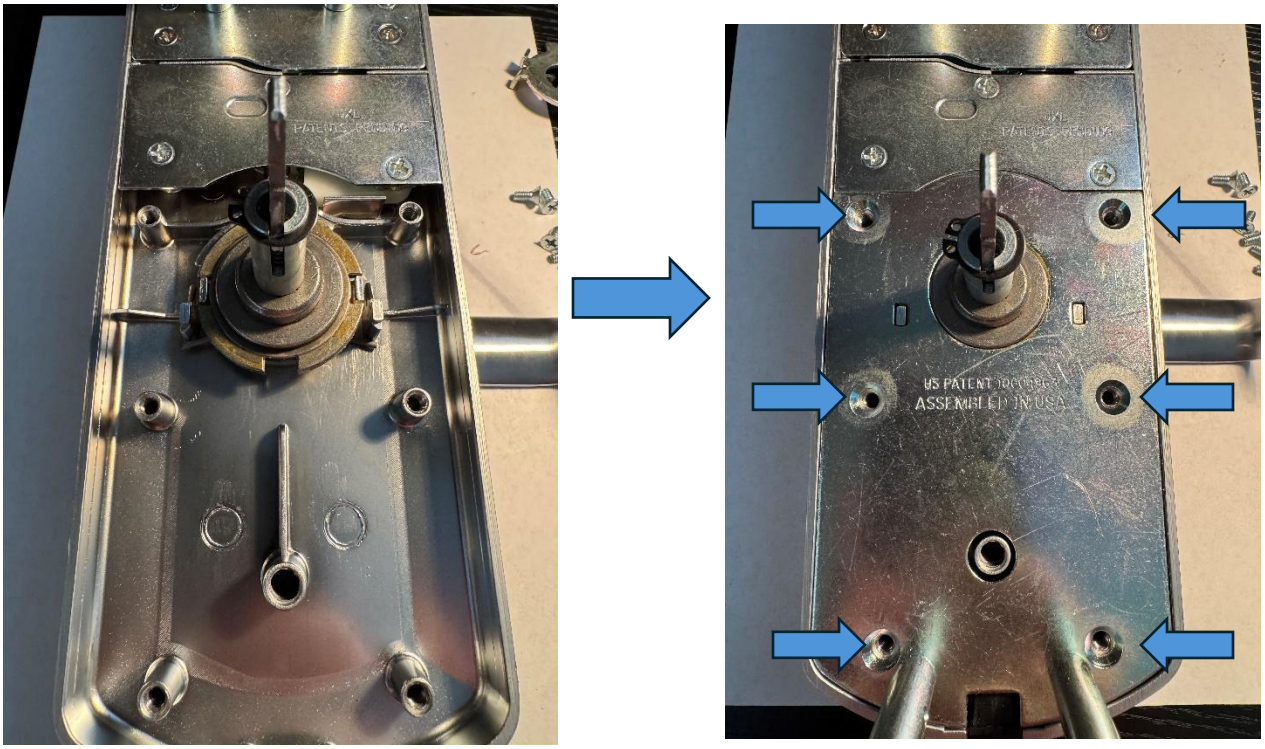


Ensure spring ends are in front of the downward folded metal tabs on the rotation limiter

6. Reinstall the snap ring



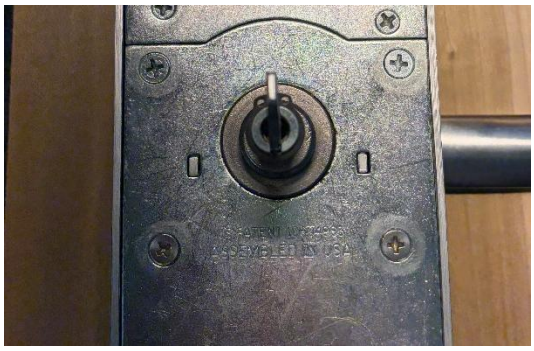
7. Reinstall the spindle and backplate



Tailpiece Preload

- Some Panic bars may require more than the default 45 degrees of rotation to fully retract the latch. To resolve this the Panic Trim can be configured to have the tail piece start with “Preload” or extra rotation.

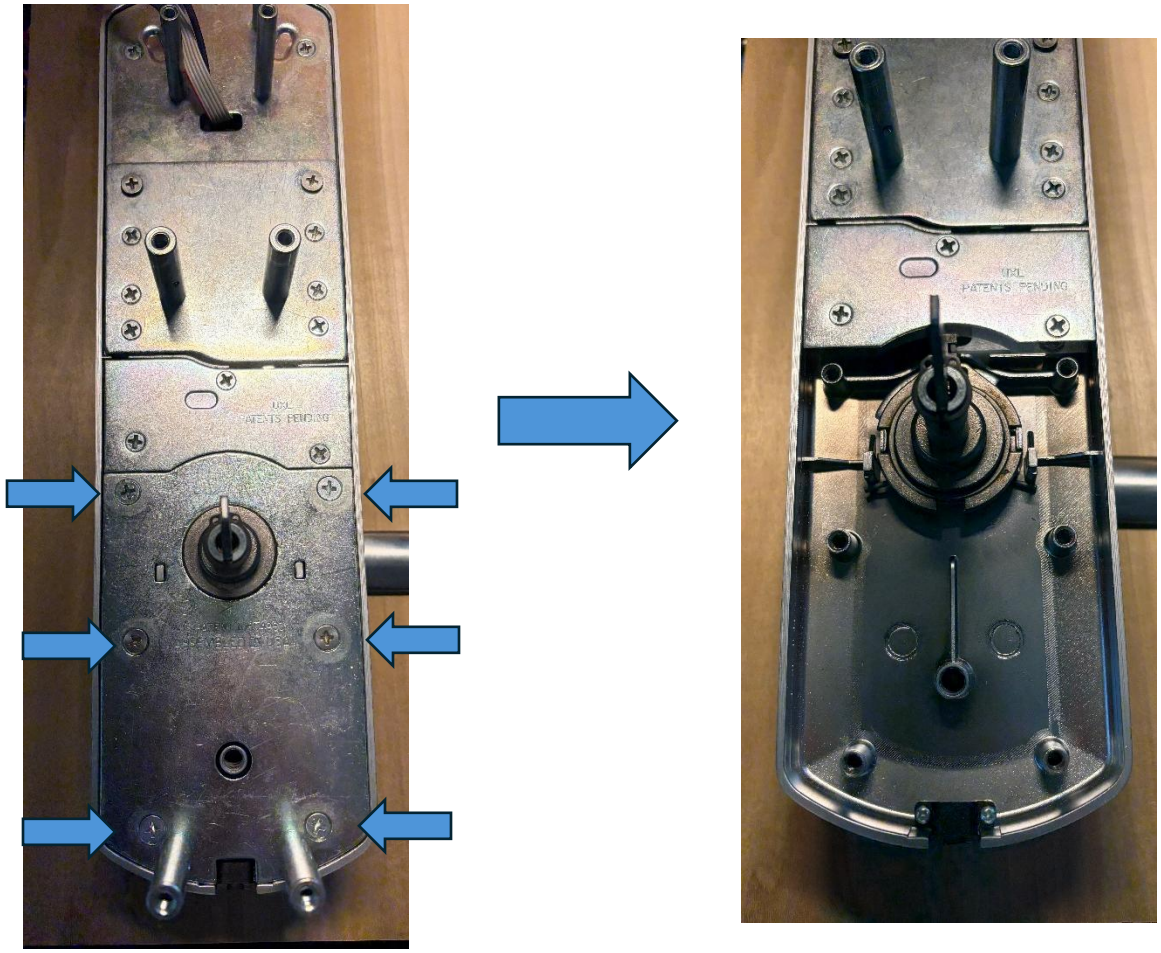
Factory Set Tailpiece (No Preload)



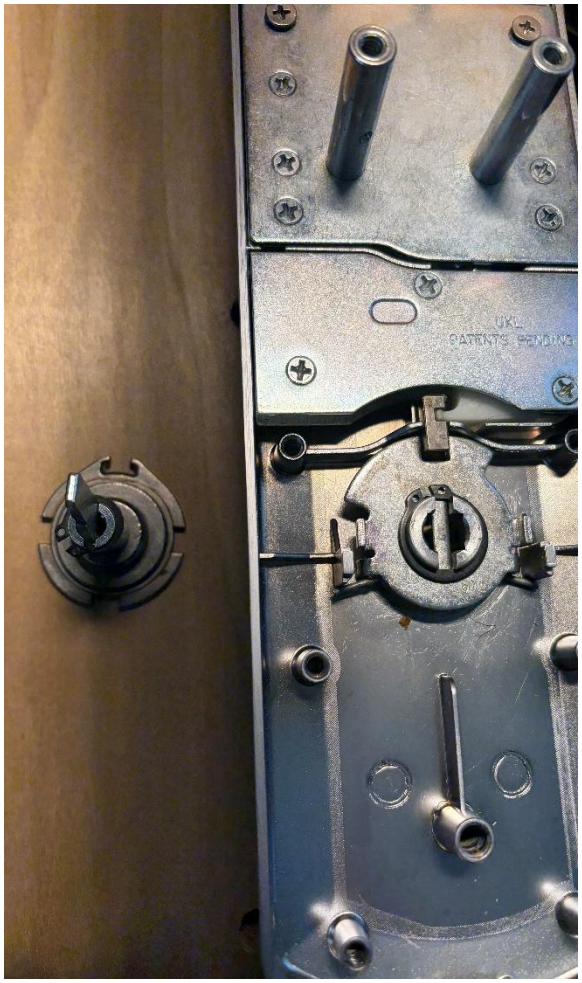
Tailpiece with 45-degree preload (Commonly needed for Precision devices)

Steps to change to a Preloaded Tailpiece

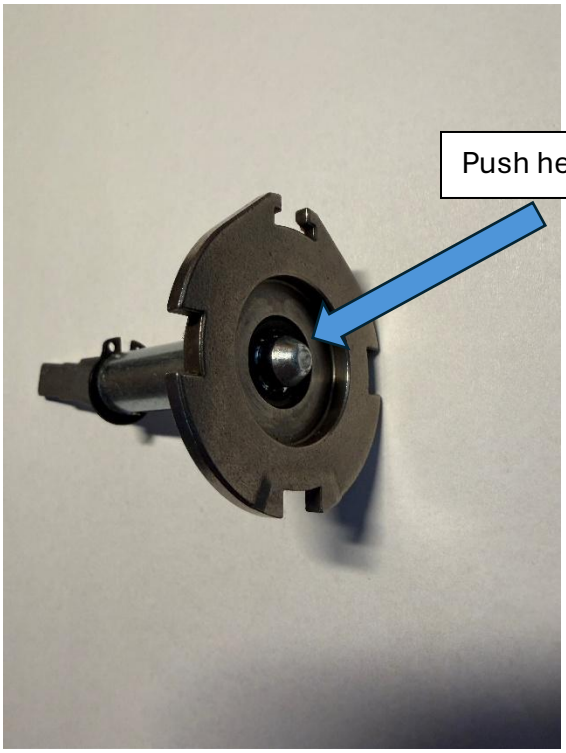
1. Remove bottom backplate of Exit Trim

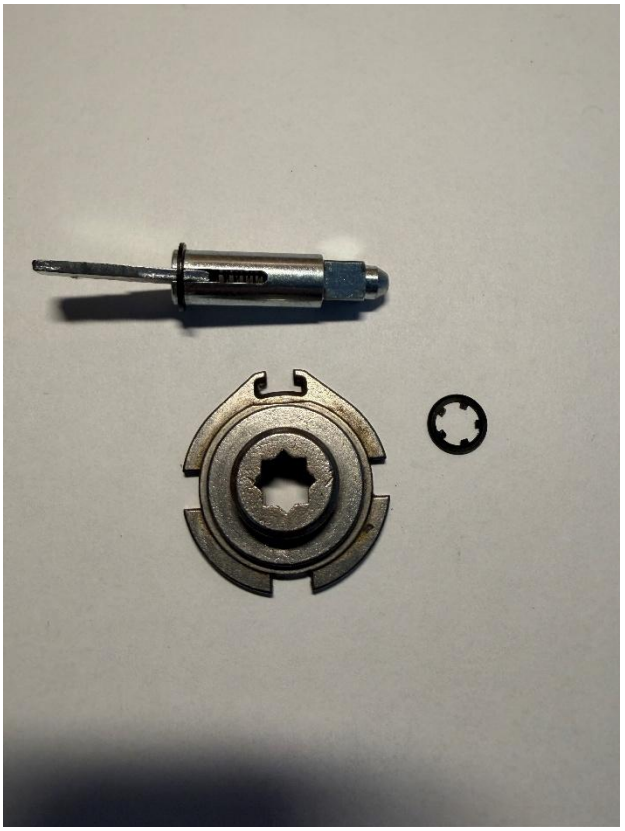


2. Pull tailpiece out of trim

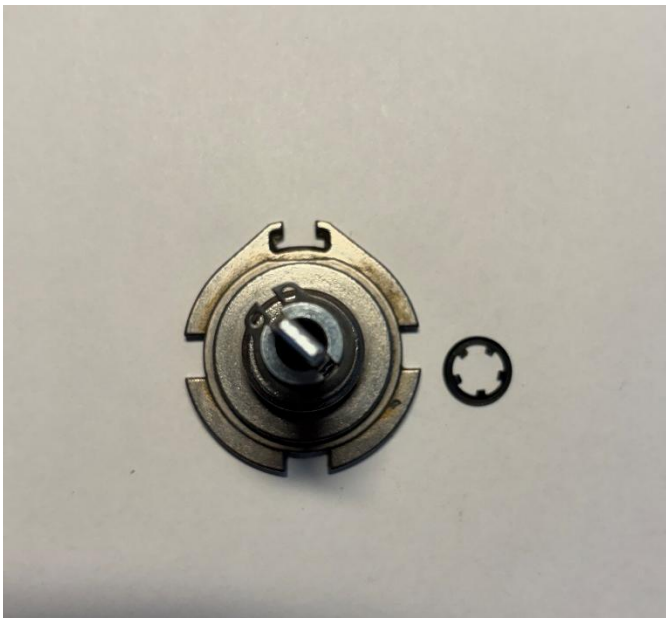


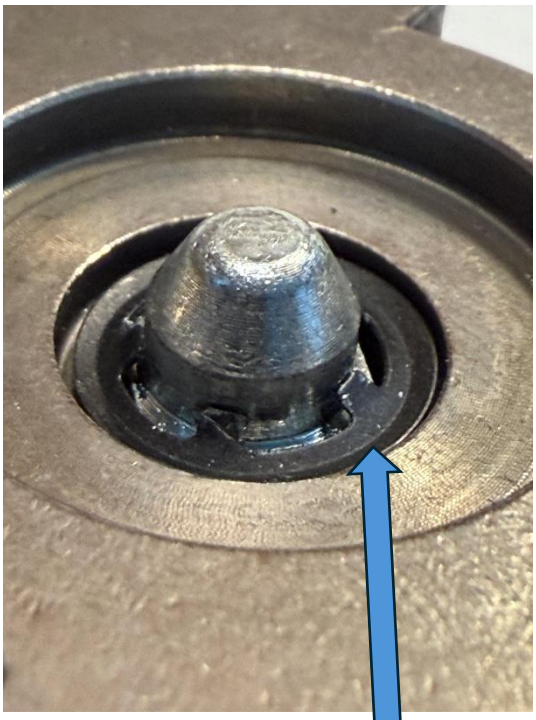
3. Remove the tailpiece from the base by pushing on the bottom of the Tailpiece rod





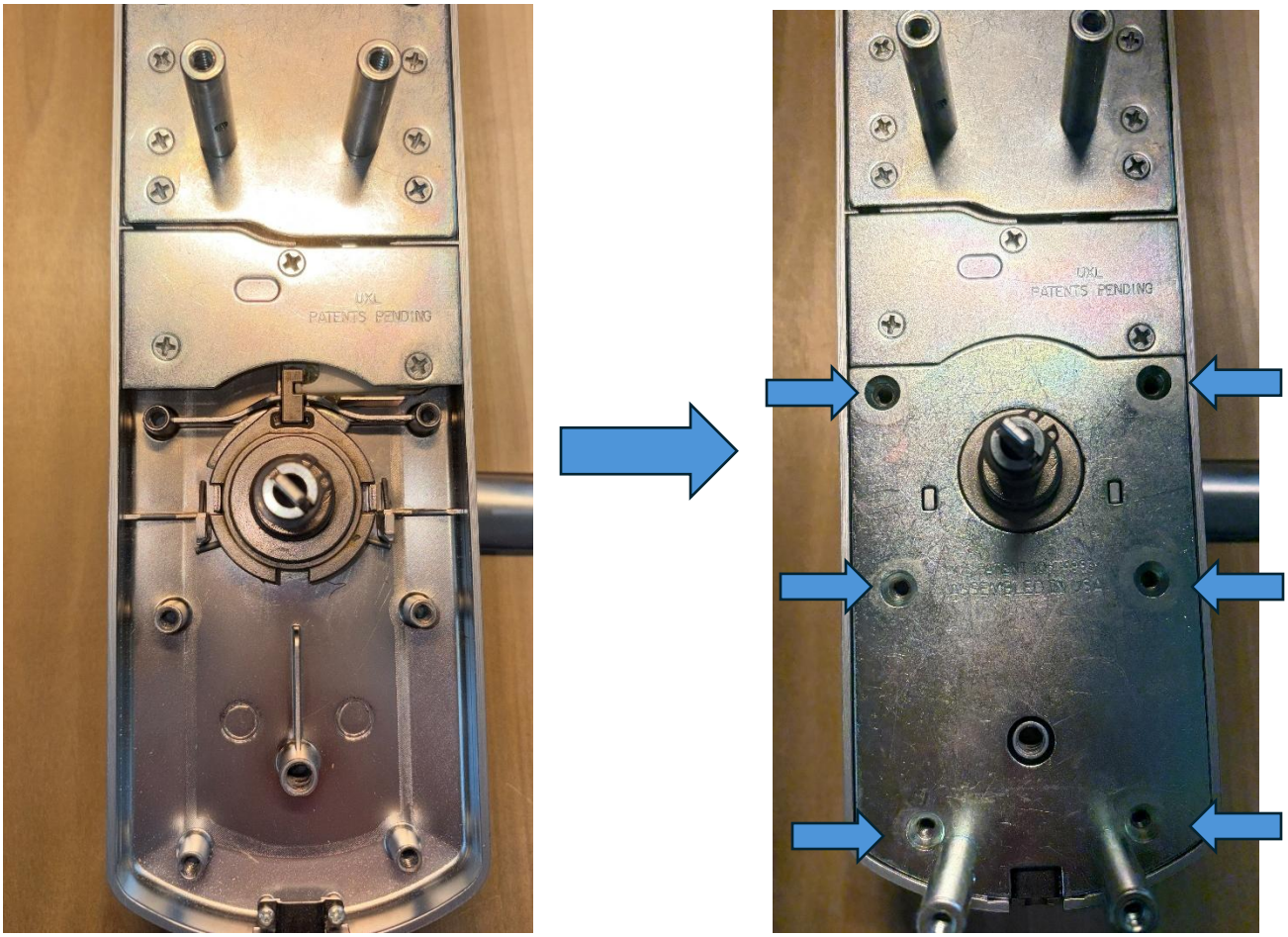
4. Reinstall Tailpiece at 45 degree angle (Direction may vary based on handing)





Make sure to reinstall the ITL washer with the teeth pointing away from the base. Otherwise, it may come loose and affect operation

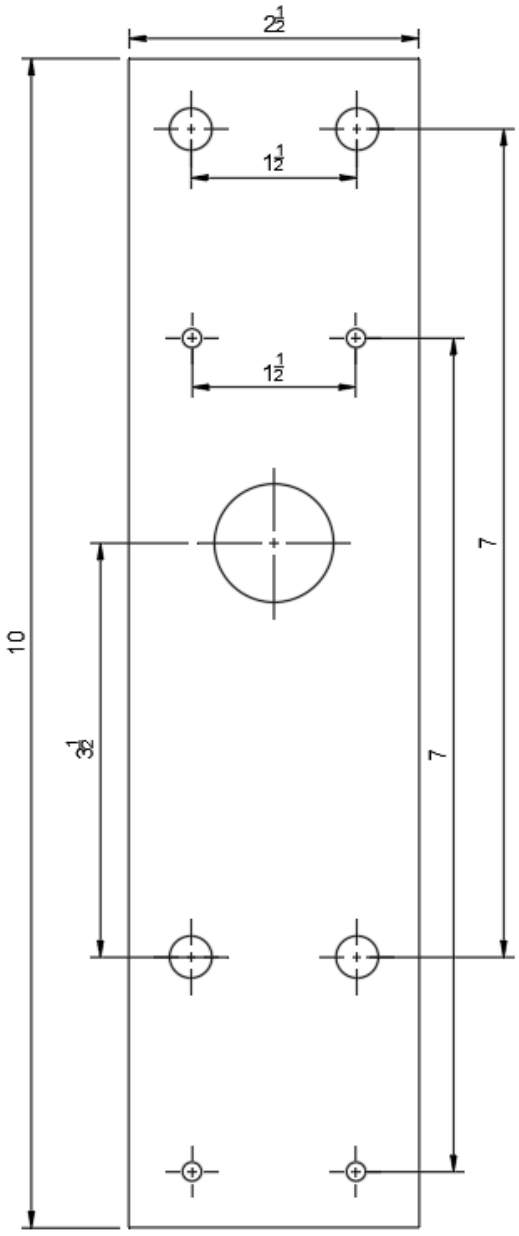
5. Place reassembled Tailpiece onto Exit Trim and reinstall bottom backplate



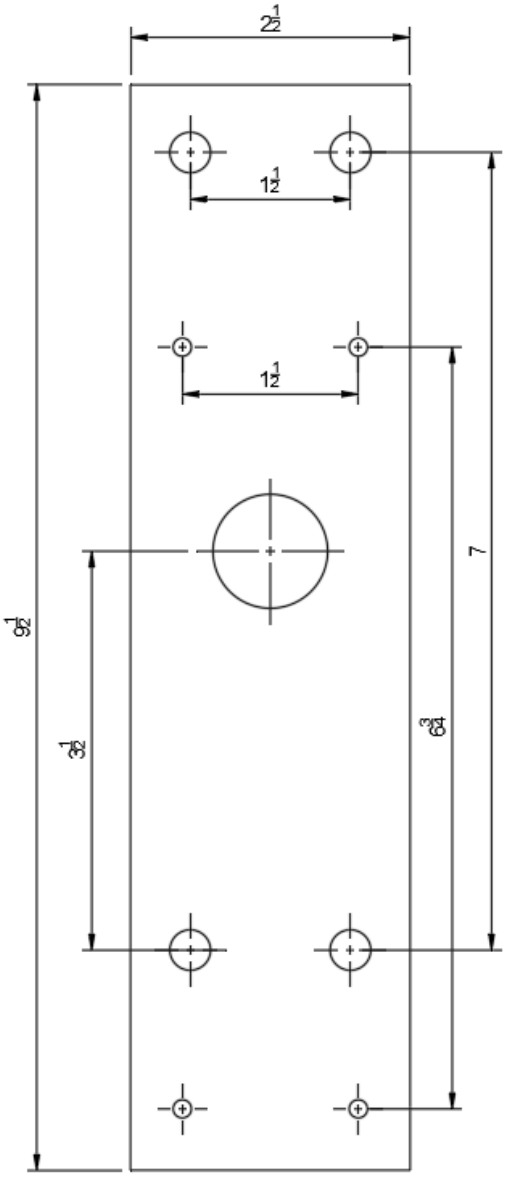
Installation with Sargent/Precision Adapter Plates

- If you are installing the Exit trim to a Sargent 8810 or a Precision 2100, the install will require one of the Proxess adapter plates shown below.

Precision Adapter



Sargent Adapter



Adapter Plate Hardware

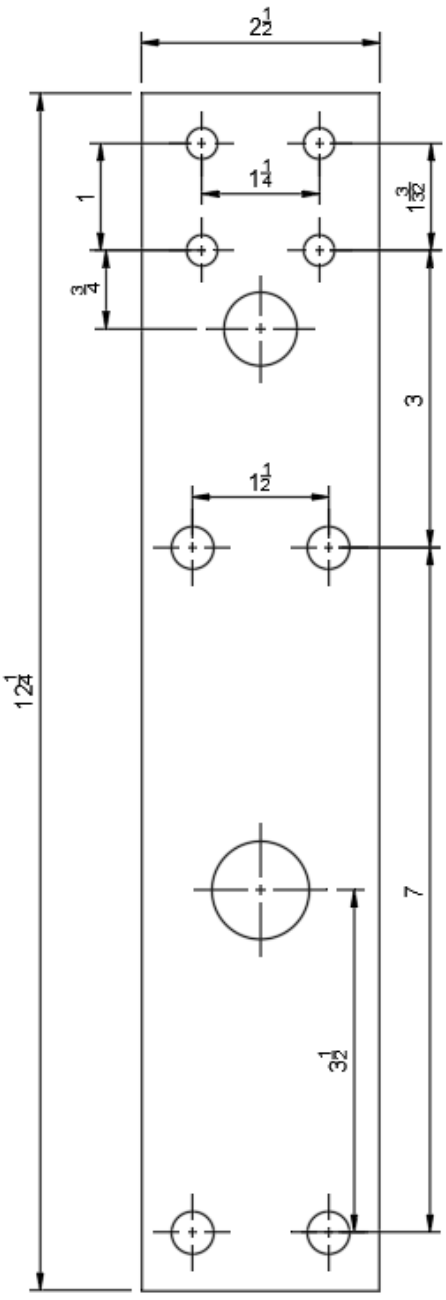
Included with the adapter plate are 8 Screws:

- 4 “F” screws (These will replace the 4 “C” screws in the original hardware pack)
- 4 “G” screws

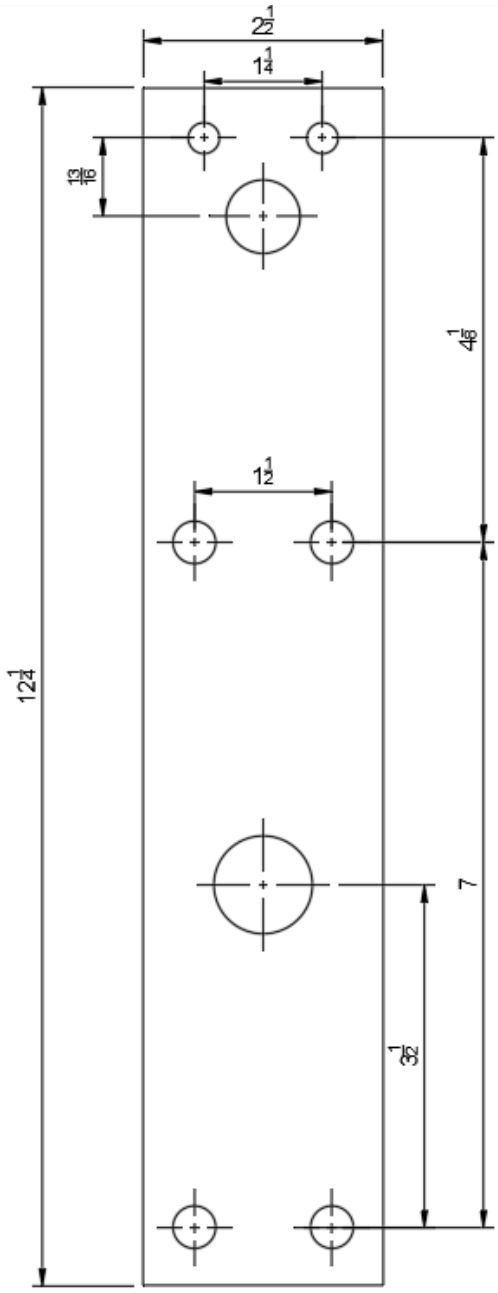
Interior side Drill Template (**for select installs only)**

- The interior side prep changes as the adapter plates need to be oriented differently depending on the panic device and the handing. The Sargent 8810 panic bars need the plate to be upright (shown below) regardless of the handing. **Some installations may require the plate to be oriented downwards (Rotated 180 degrees). Those installations can skip to the last two steps as there is no interference**

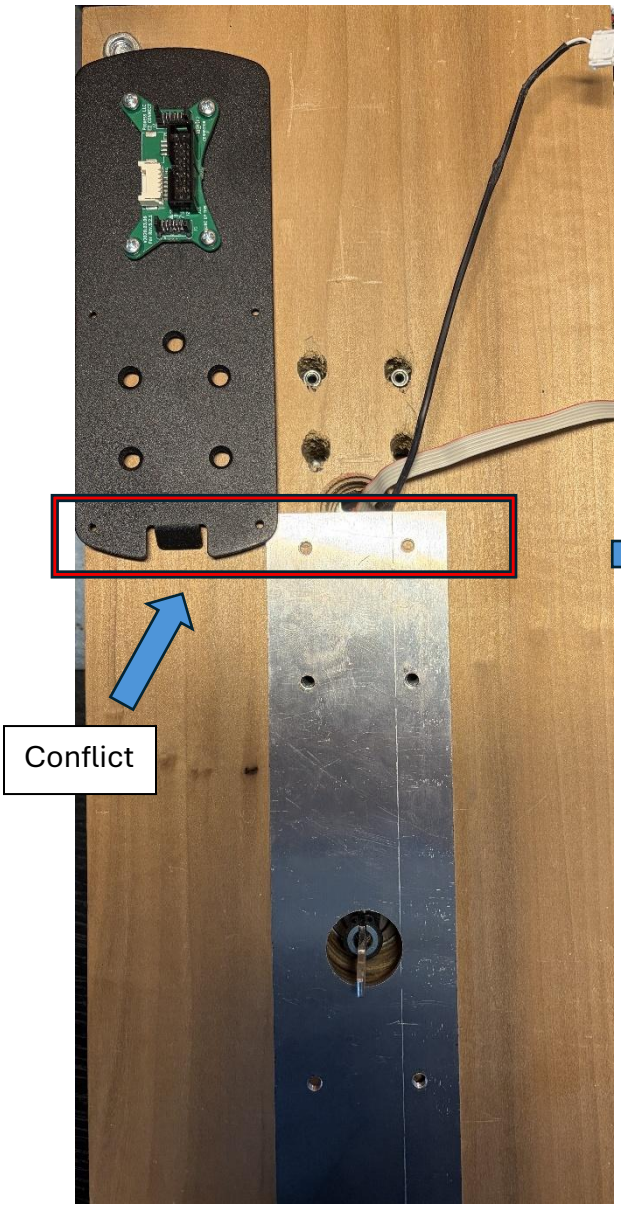
Exterior Prep

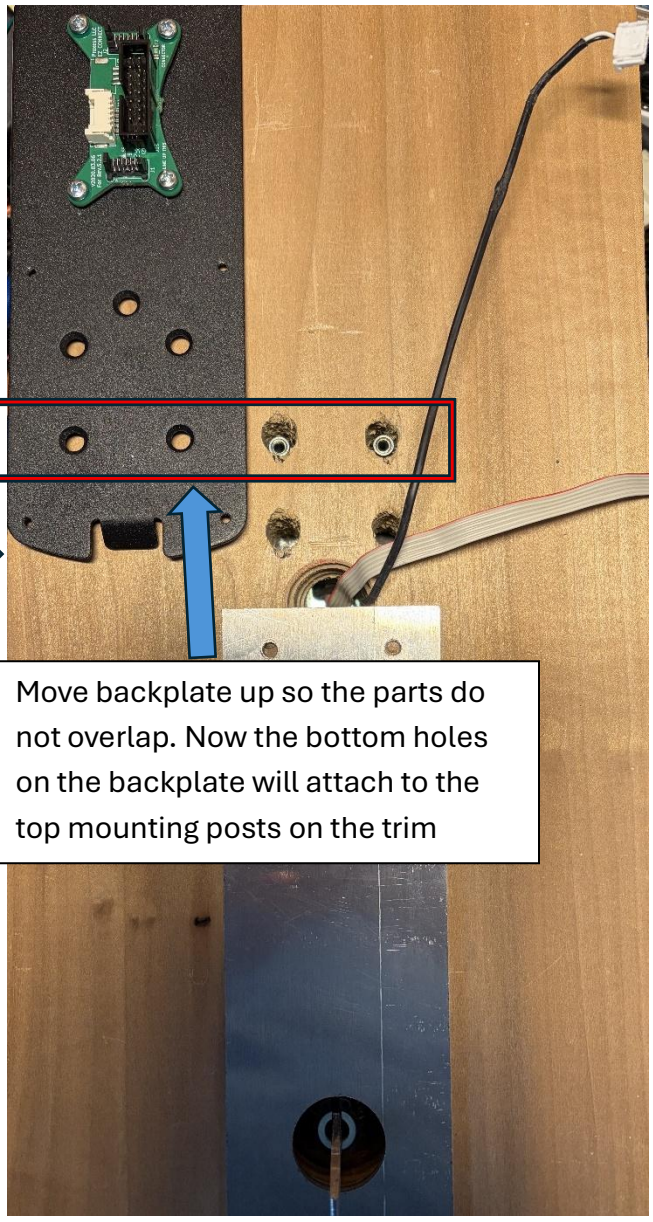


Interior Prep



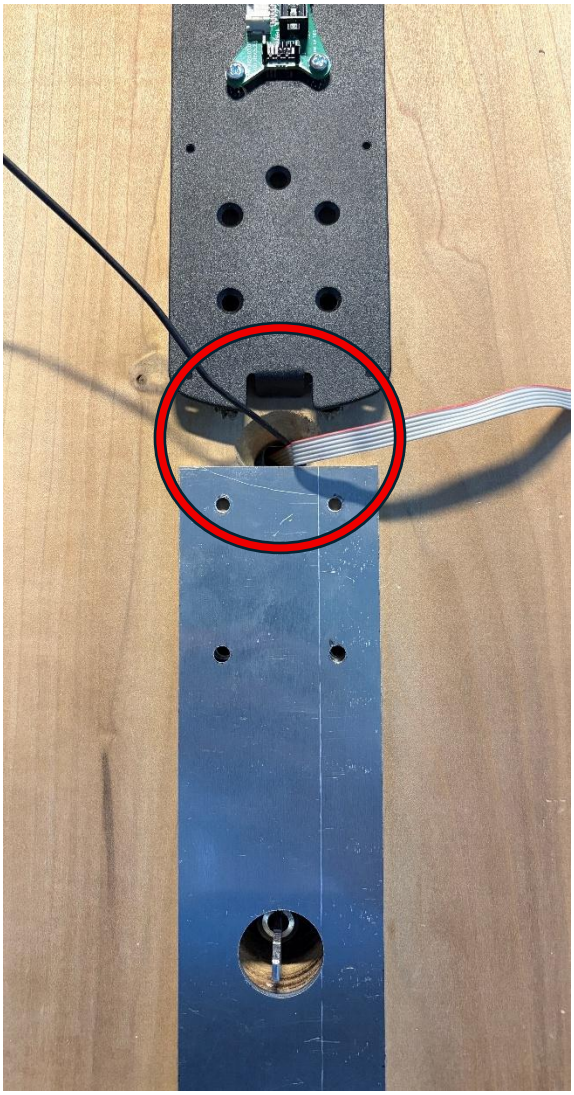
- When using the adapter plate in the upwards orientation it has some overlap with the backplate. To resolve this, you need to move the backplate up. This is why the interior prep will now be different than the exterior. If left the same the passthrough hole for the cables would be exposed to the public.





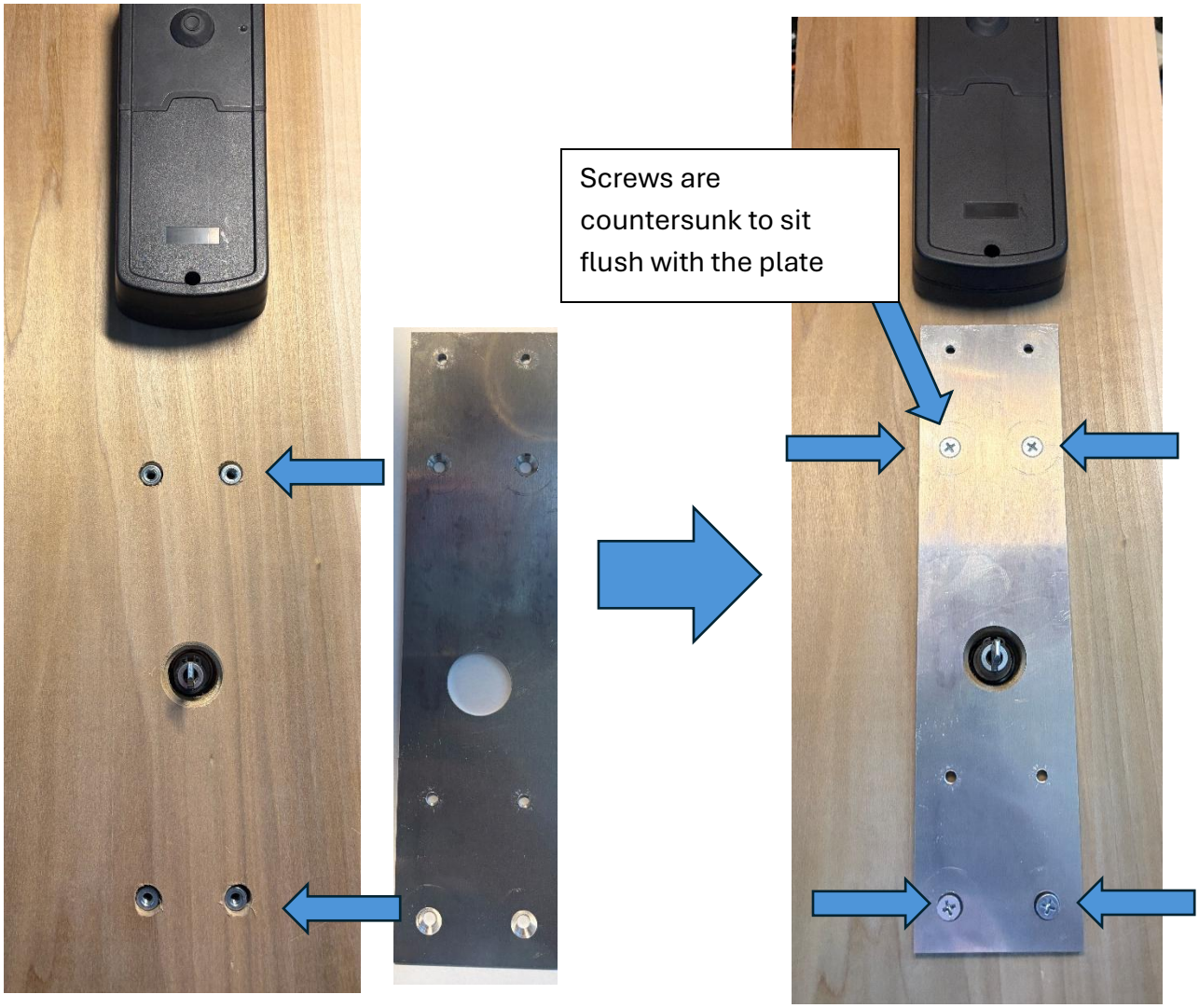
- Show below are examples of how the interior prep changes

With original prep

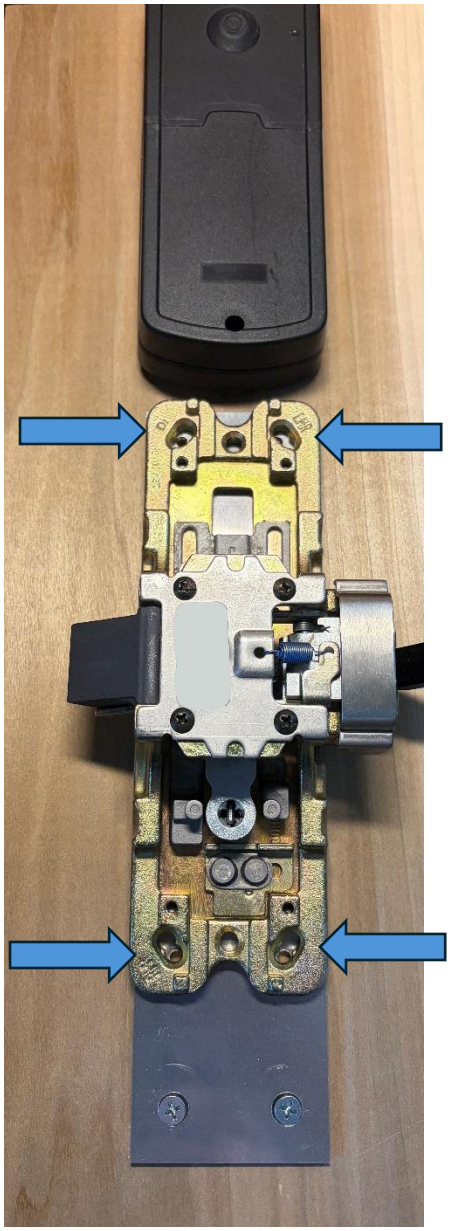


With adjusted interior prep

1. Once the Exterior Trim is installed (step 3) and the interior housing has been installed (steps 4-7) in the adjusted position, you can then install the adapter plate with the 4 “F” screws provided

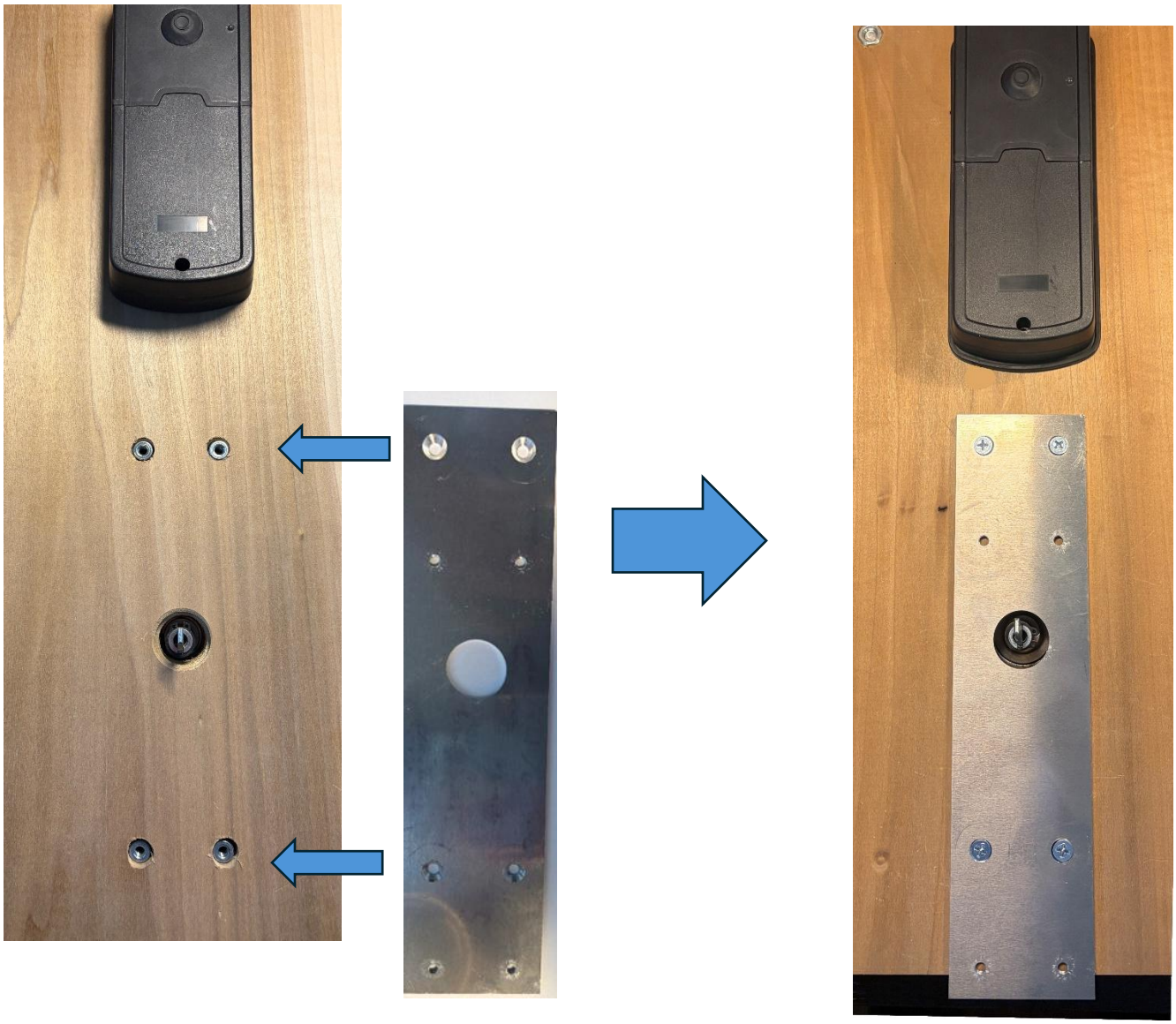
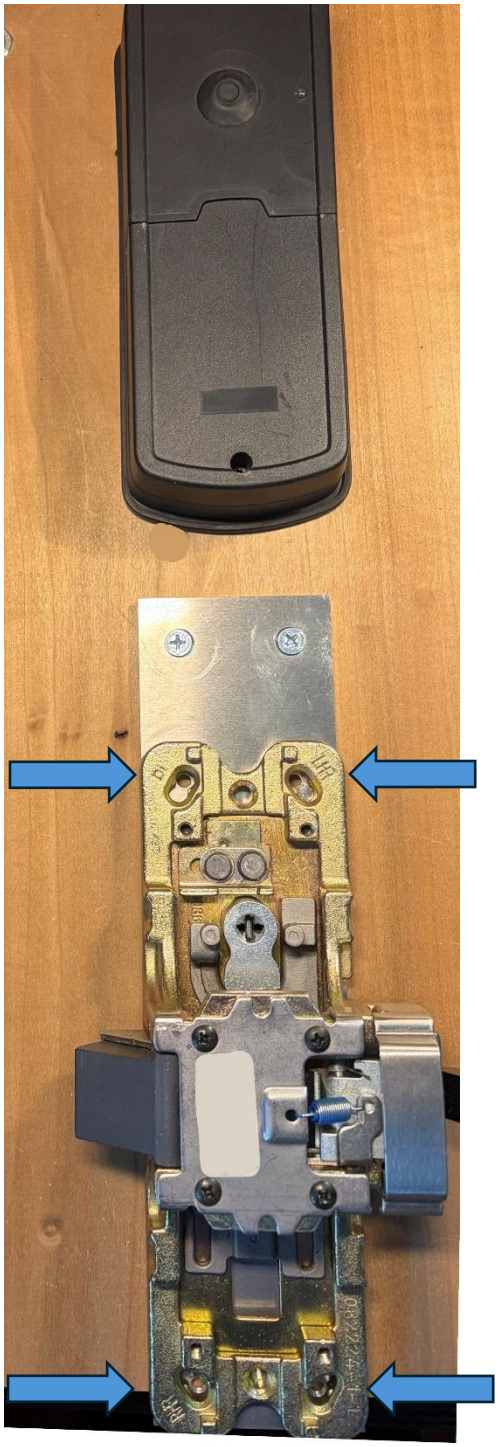


2. Install Panic Bar head onto adapter plate with 4 “G” screws



Installing the adapter plate in the downward orientation

1. Simply complete the Exit trim install as normal, then add the adapter plate in the downward position and secure with the 4 “F” screws provided.



2. Install the panic device on the adapter plate with the 4 “G” screws provided.