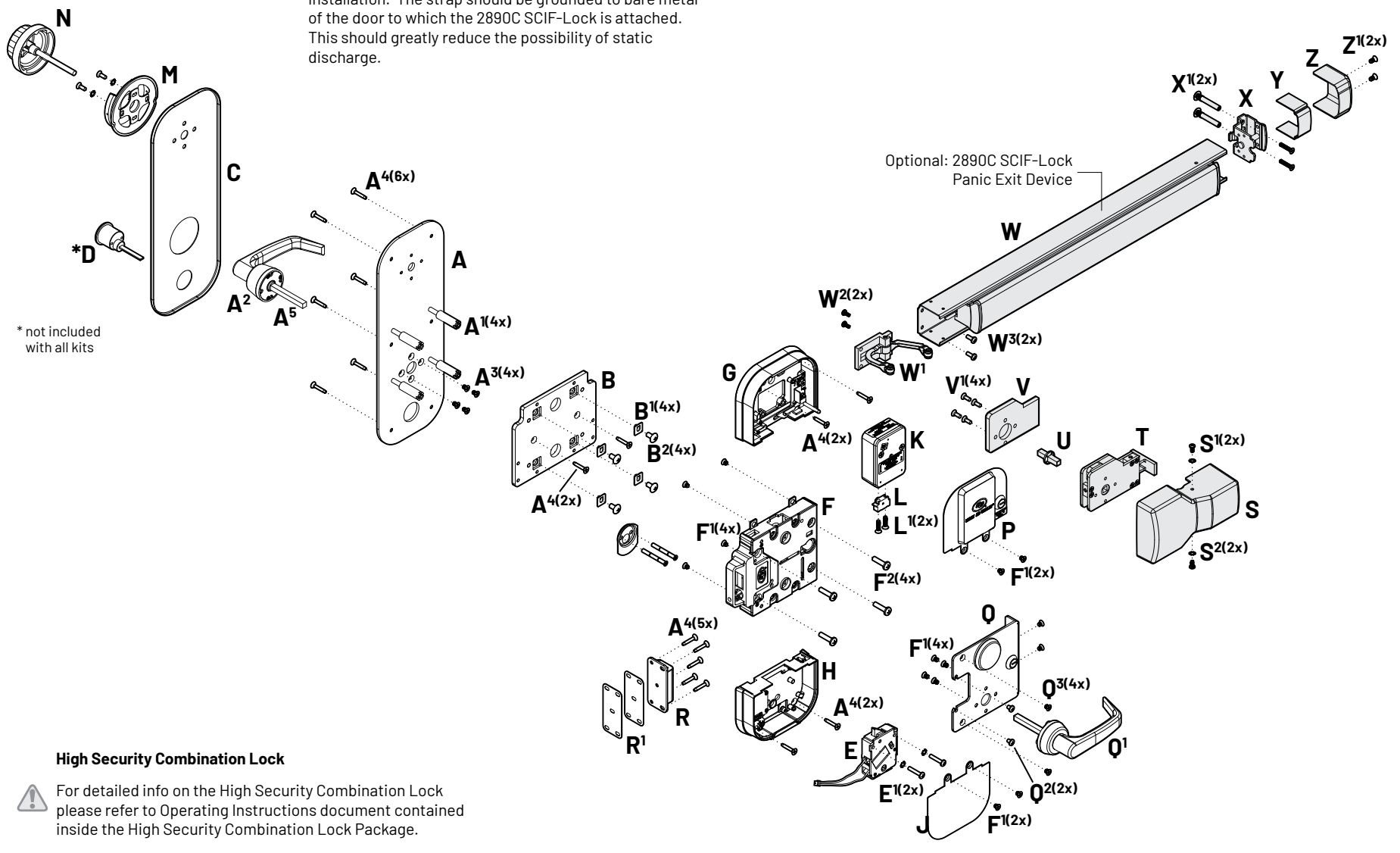


**⚠** The 2890C SCIF-High Security Door Lock is designed to use a High Security Combination Lock. Follow the instructions packaged with the combination lock for installation in the 2890C SCIF-Lock device. Wear a static discharge wrist strap (included) during combination lock installation. The strap should be grounded to bare metal of the door to which the 2890C SCIF-Lock is attached. This should greatly reduce the possibility of static discharge.

**⚠** For drilling instructions and templates please refer to document 630-880 (2890C SCIF-High Security Door Lock Drilling Instructions/Templates).

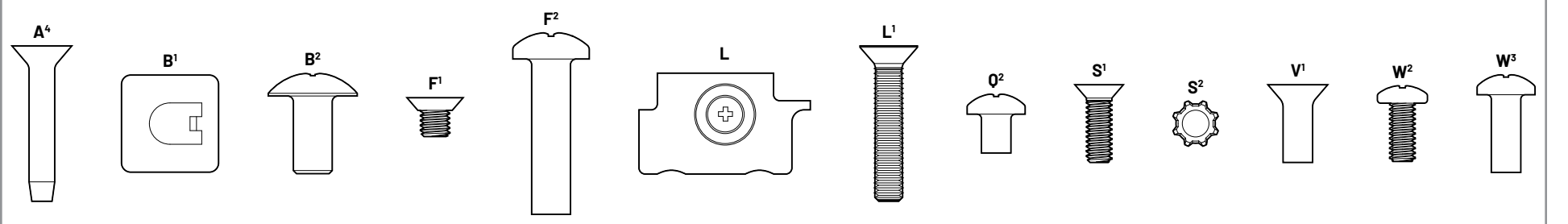


\* not included with all kits

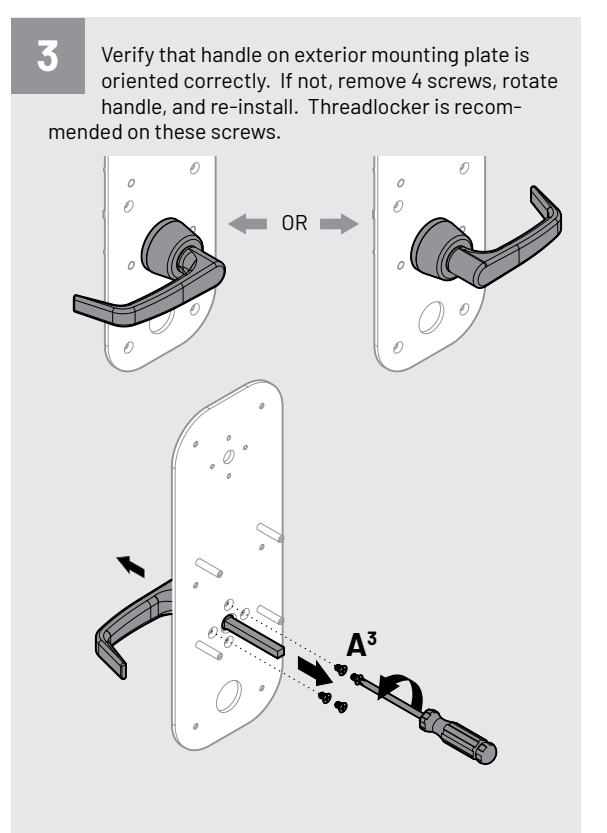
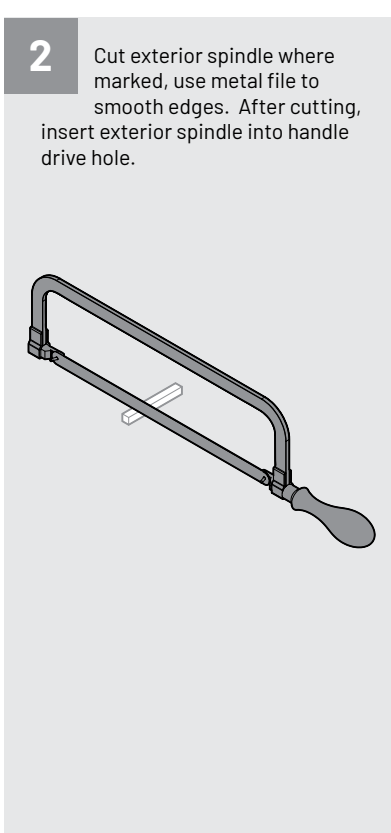
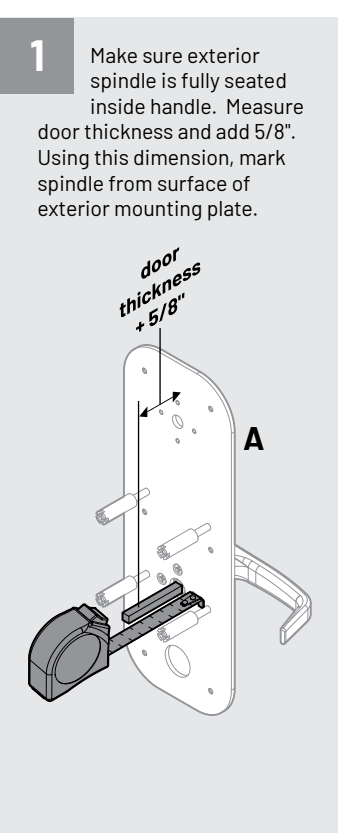
**High Security Combination Lock**

**⚠** For detailed info on the High Security Combination Lock please refer to Operating Instructions document contained inside the High Security Combination Lock Package.

|                      |   |                      |  |                      |  |                      |   |
|----------------------|---|----------------------|--|----------------------|--|----------------------|---|
| <b>A<sup>4</sup></b> | #10 X 1" Phillips Flat Head Thread Forming Screw (Qty 17) | <b>F<sup>2</sup></b> | #1/4-20 x 1" Phillips Pan Head Machine Screw (Qty 4)   | <b>S<sup>1</sup></b> | #8-32 x 1/2" Phillips Flat Head Machine Screw (Qty 2)  | <b>W<sup>3</sup></b> | #10-32 x 1/2" Phillips Pan Head Machine Screw (Qty 2) |
| <b>B<sup>1</sup></b> | Washer, Tabbed (Qty 4)                                    | <b>L</b>             | Bolt Extension (Qty 1)                                 | <b>S<sup>2</sup></b> | Washer, Lock, Countersink (Qty 2)                      |                      |   |
| <b>B<sup>2</sup></b> | #1/4-20 x 1/2" Phillips Truss Head Machine Screw (Qty 4)  | <b>L<sup>1</sup></b> | #10-32NF x 1" Phillips Flat Head Machine Screw (Qty 2) | <b>V<sup>1</sup></b> | #10-32 x 1/2" Phillips Flat Head Machine Screw (Qty 4) |                      |   |
| <b>F<sup>1</sup></b> | #10-32 x 1/4" Phillips Flat Head Machine Screw (Qty 16)   | <b>Q<sup>2</sup></b> | #10-32 x 1/4" Phillips Pan Head Machine Screw (Qty 2)  | <b>W<sup>2</sup></b> | #8-32 x 3/8" Phillips Pan Head Machine Screw (Qty 2)   |                      |   |



|                          |   |                          |                                |
|--------------------------|---|--------------------------|--------------------------------|
| <b>A</b>                 | Exterior Mounting Plate                             | <b>P</b>                 | Combination Lock Cover         |
| <b>A<sup>1(4x)</sup></b> | Depth Adjusters                                     | <b>O</b>                 | Interior Center Cover          |
| <b>A<sup>2</sup></b>     | Exterior Handle Assembly                            | <b>Q<sup>1</sup></b>     | Lever Handle                   |
| <b>A<sup>3(4x)</sup></b> | Screw 1/4-20 x 1/2"                                 | <b>Q<sup>3(4x)</sup></b> | Screw #10-32 x 1/4" Flat Head  |
| <b>A<sup>5</sup></b>     | Exterior Spindle                                    | <b>R</b>                 | Strike                         |
| <b>B</b>                 | Interior Mounting Plate                             | <b>R<sup>1</sup></b>     | Strike Spacers                 |
| <b>C</b>                 | Exterior Escutcheon                                 | <b>S</b>                 | Panic Mechanism Cover          |
| <b>D</b>                 | Rim Cylinder or Plug<br>*not included with all kits | <b>T</b>                 | Panic Mechanism                |
| <b>E</b>                 | Access Control Assembly                             | <b>U</b>                 | Short Spindle                  |
| <b>E<sup>1(2x)</sup></b> | Screw #10-32 x 1", Washers                          | <b>V</b>                 | Panic Mechanism Shim           |
| <b>F</b>                 | Mechanical Assembly                                 | <b>W</b>                 | Panic Bar                      |
| <b>G</b>                 | Lock Housing  | <b>W<sup>1</sup></b>     | Panic Interface Mechanism      |
| <b>H</b>                 | Access Control Housing                              | <b>X</b>                 | Panic Bar Channel Bracket      |
| <b>J</b>                 | Access Control Cover                                | <b>X<sup>1(2x)</sup></b> | Architectural Bolt #10-24 x 1" |
| <b>K</b>                 | High Security Combination Lock                      | <b>Y</b>                 | Filler Panel                   |
| <b>M</b>                 | Combination Lock Dial Ring                          | <b>Z</b>                 | End Cap                        |
| <b>N</b>                 | Combination Lock Dial                               | <b>Z<sup>1</sup></b>     | Screw #10-24 x 3/8"            |



**4** Align exterior mounting plate assembly to the through holes on door exterior. Position exterior mounting plate assembly flush against exterior side of door.

**5** From interior side, use flat blade screwdriver to adjust (4) depth adjusters until they are flush with interior door face. Leave each depth adjuster with slot in vertical position.

**6** Remove 2 screws to release interior mounting plate from mechanical assembly.

Position interior mounting plate on door and align with (4) depth adjusters. Make sure exterior spindle fits through bottom center hole.

**7** Place a tabbed washer in each of the (4) mounting holes, with the small tab in adjuster slot.

**8** Install (4) 1/4"-20 x 1/2" screws, loosely fasten through door to the exterior mounting plate assembly.

**9** Level interior mounting plate and exterior mounting plate assembly.

**10** Tighten (4) screws securely, making sure both sides stay

**11** Center punch and pre-drill interior mounting plate mounting holes (2x).

**12** Install (2) #10 sheet metal screws and tighten securely.

**13** Center punch and pre-drill mounting holes (6x) using exterior mounting plate assembly holes as guide. For steel door drill Ø9/64", for wood door drill Ø1/8". Gauge hole depth by length of mounting screws.

⚠ Heavy gage metal doors may require tapped holes and machine

**14** Install (6) #10 sheet metal screws and tighten securely.

**15** Slip the exterior escutcheon around the handle and position over the exterior mounting plate assembly.

**16** Install the rim cylinder or plug through the exterior escutcheon.

**17** From door interior, install the rim cylinder retainer plate. Install (2) rim cylinder mounting screws and tighten securely. Check to make sure the key turns easily, make rim cylinder retainer plate adjustments as needed to ensure smooth key operation.

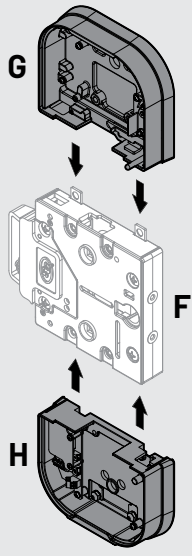
⚠ Rim cylinder spindle must extend 5/8" to 1-1/8" from the surface of door when installed.

i This unit accommodates retainer plates with max thickness of 1/8" and max diameter of 2-1/2"

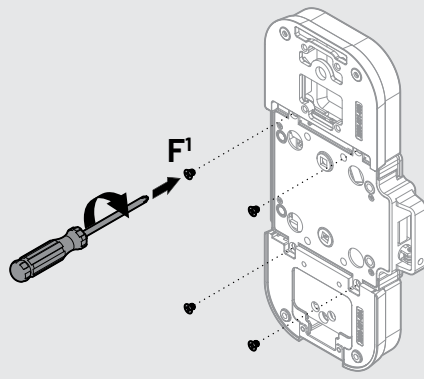
**18** Locate the access control assembly, remove (2) screws and temporarily remove access control assembly. Set

**19** Orient mechanical assembly, depending upon specific application installation.

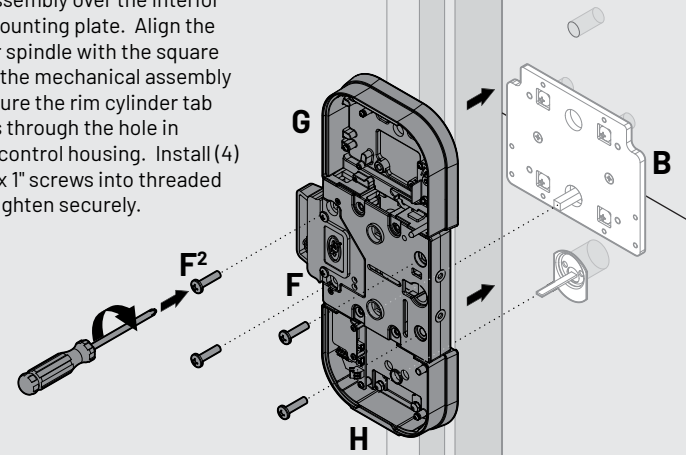
**20** Position lock housing above mechanical assembly and access control housing below mechanical assembly.



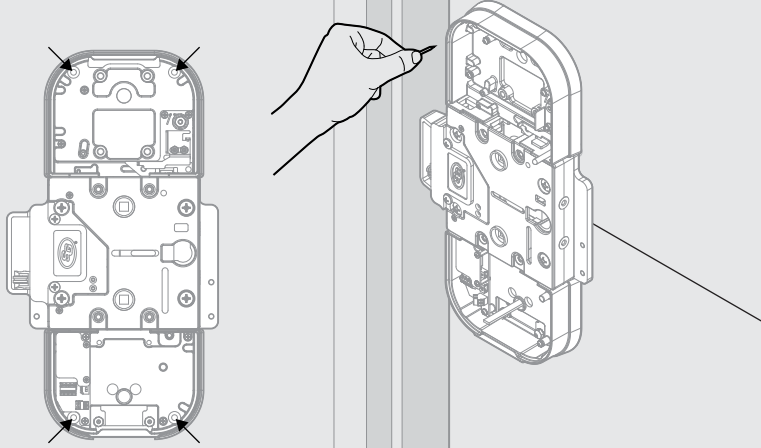
**21** Flip the combined assembly over and secure housings together with (4) #10-32 x 1/4" screws.




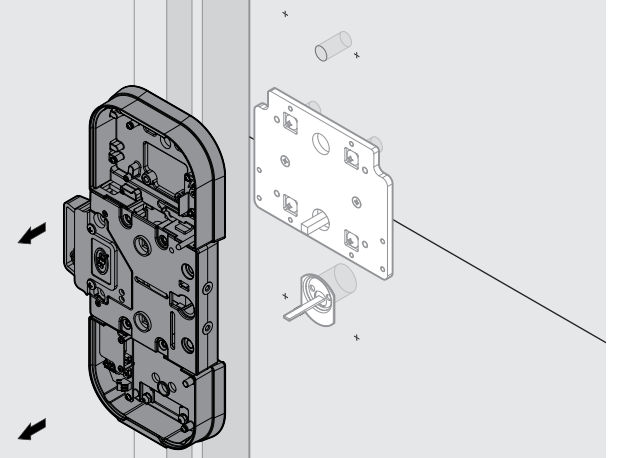
**22** Position the combined assembly over the interior mounting plate. Align the exterior spindle with the square hole on the mechanical assembly and ensure the rim cylinder tab extends through the hole in access control housing. Install (4) 1/4"-20 x 1" screws into threaded holes, tighten securely.



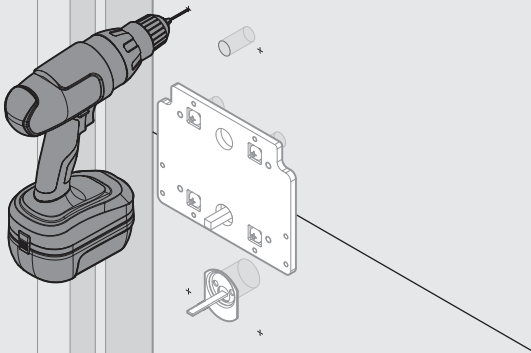
**23** Center punch mounting holes (4x) using housing holes as guide.



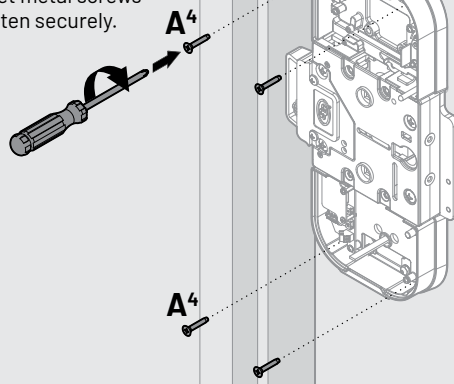
**24**  Remove the combined assembly before drilling in order to prevent any drill chips from getting into the 2890C mechanism.



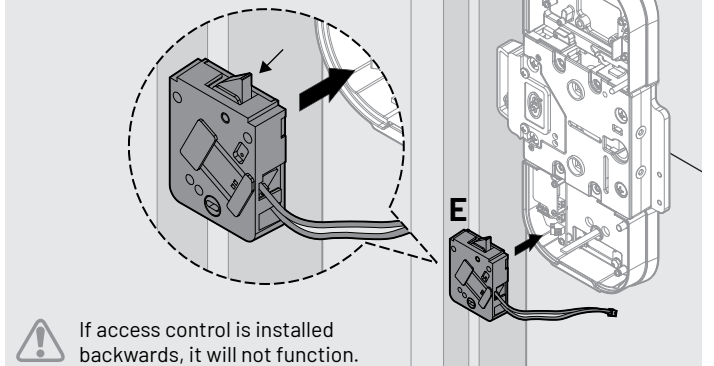
**25** Pre-Drill mounting holes (4x) as marked. For steel door drill  $\varnothing 9/64"$ , for wood door drill  $\varnothing 1/8"$ . Gauge hole depth by length of mounting screws.



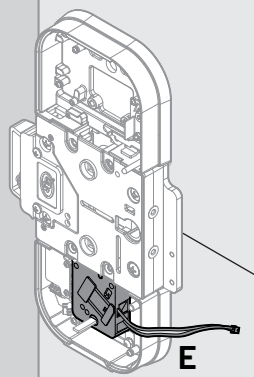
**26** Attach the mechanical assembly to the interior mounting plate as in previous step, install (4) #10 sheet metal screws and tighten securely.




**27** Locate the previously removed access control assembly and position it with the vertical side of the access bolt facing the door hinge.

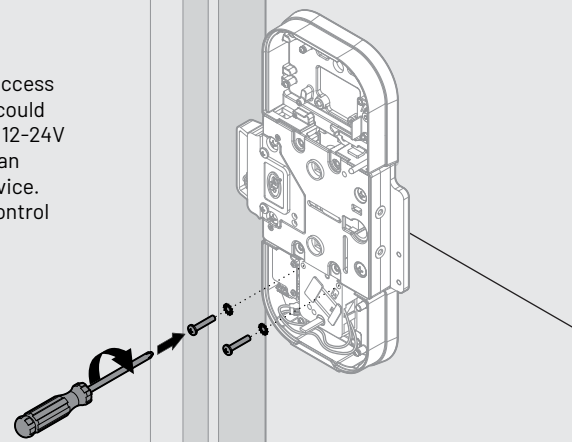


**28** Connect the cables to the PCBA. Position the assembly over the rim cylinder spindle. This can be made easier by unlocking the assembly and depressing the bolt.

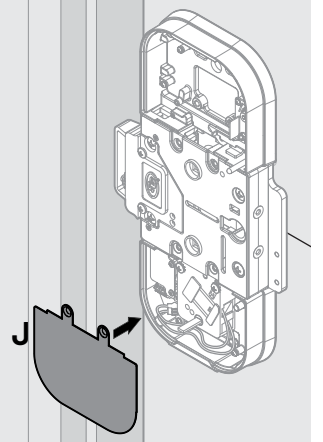


**29** Secure access control assembly with (2) #10-32 x 1" pan head screws and (2) star washers.

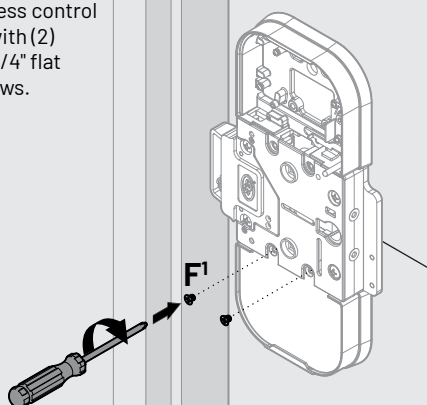
 At this point, the access control assembly could be connected to a 12-24V power supply and an authentication device. Refer to Access Control Wiring on page 7.




**30** Install access control cover.

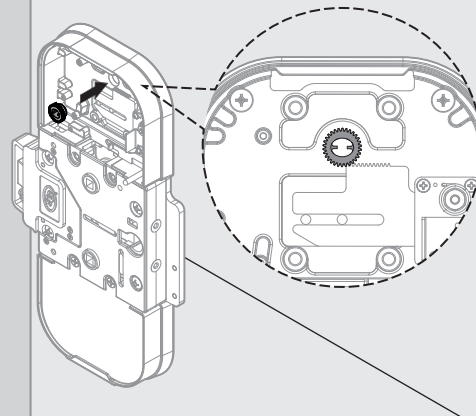


**31** Secure access control cover to access control housing with (2) #10-32 x 1/4" flat head screws.

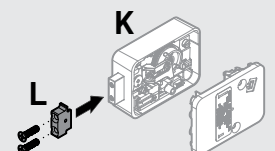


**32** Place gear in lock housing.

 The spindle gear is only to be used with locks having compatible spindles including the S&G 2740B.




**33** Attach bolt extension to high security combination lock bolt. Orient as shown. Secure with (2) #10-32 screws. Threadlocker is recommended on these screws.

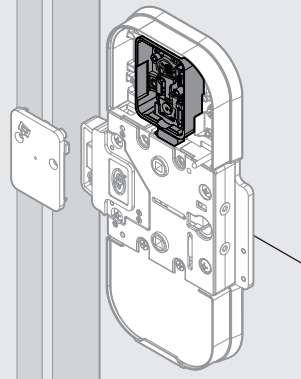




**34** Insert high security combination lock into lock housing, with the bolt extension extending down into the mechanical assembly.

To thread dial/spindle assembly into lock cam, spindle slots must align with gear's internal tabs. From front of door, inspect orientation of gear tabs. Insert spindle through door with slots in approximate alignment with tabs. Gently push spindle into gear and rotate as needed to align slot with tabs. When aligned, spindle will slip through gear to threaded hole of lock cam.

 Refer to High Security Combination Lock - Installation Instructions for detailed instruction.

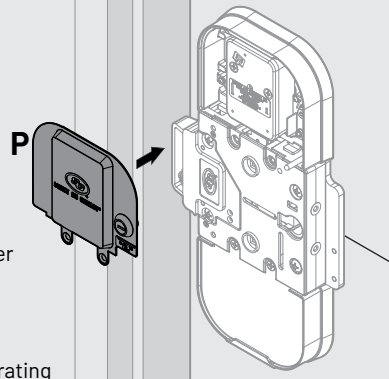


**35** Change lock combination and install combination lock cover.



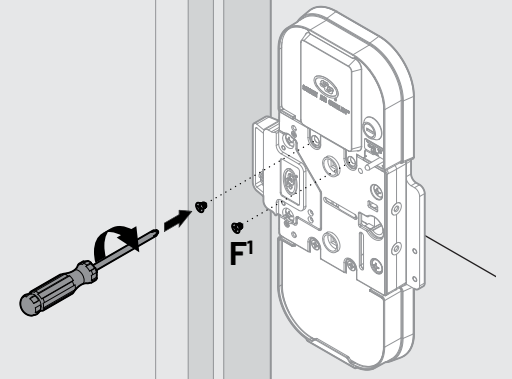
Verify lock operation per High Security Lock Instructions.

Refer to High Security Combination Lock Operating Instructions for detailed instructions on changing lock combination.

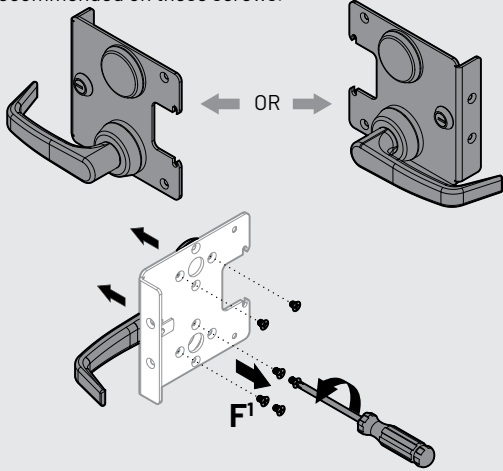


**36**

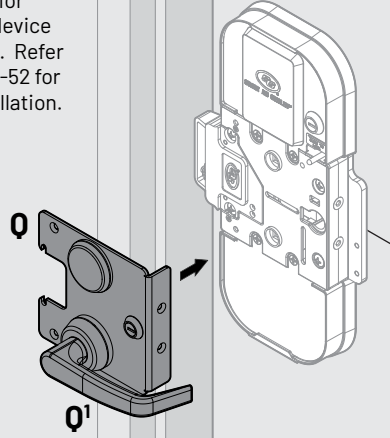
Secure combination lock cover with (2) #10-32 x 1/4" flat head screws.



**37** Verify that the interior center cover, handle, and blind rose are oriented correctly. If not, remove 4 screws to rotate and reposition the handle, and 2 screws to remove and reposition the blind rose. Threadlocker is recommended on these screws.

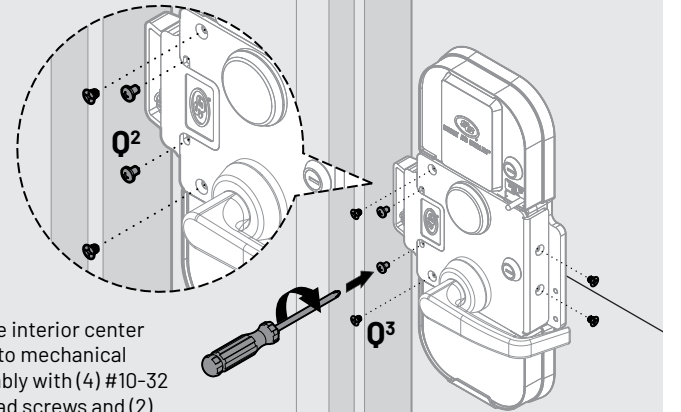


**38** Install interior center cover or refer to step 55-74 for panic exit device installation. Refer to steps 40-52 for strike installation.

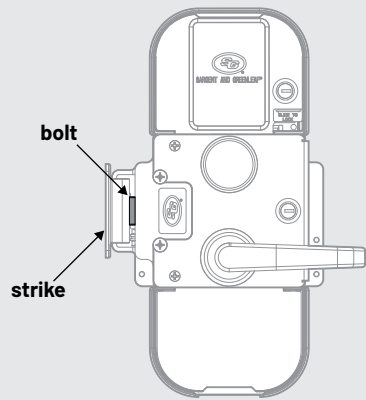


**39**

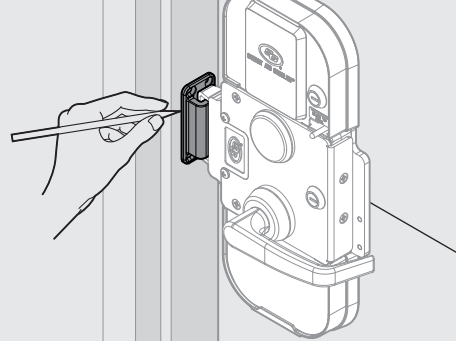
Secure interior center cover to mechanical assembly with (4) #10-32 flathead screws and (2) #10-32 pan head screws.



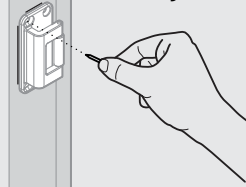
**40** Position strike on frame with bolt extended into strike. Align strike with equal space top and bottom of bolt.



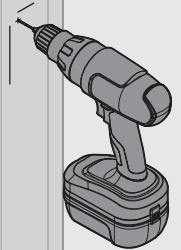
**41** Mark strike position reference lines on frame.




**42** Retract bolt, open door, and realign strike to reference lines on frame. Center punch top left slotted strike mounting hole (1x).

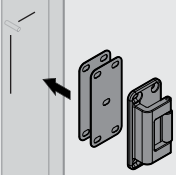


**43** Pre-Drill for #10 sheet metal screw or drill & tap for #10-32 machine screw.

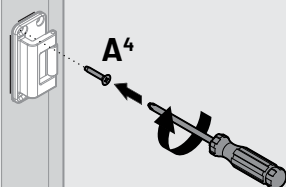


**44** Align strike spacers and strike to previously drilled hole on door frame.

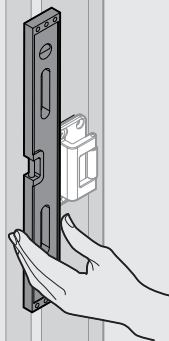
 Spacers are used to adjust clearance between the strike & lock and are not required for every



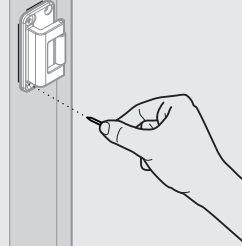
**45** Install (1) screw, top left.



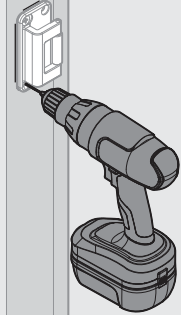
**46** Level strike.



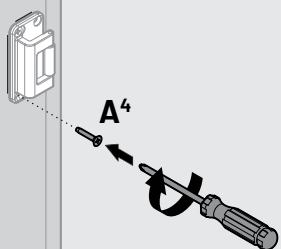
**47** Center punch bottom left slotted strike mounting hole (1x).



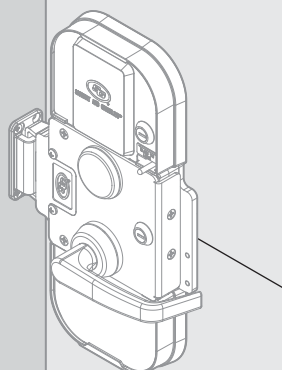
**48** Pre-Drill for #10 sheet metal screw or drill & tap for #10-32 machine screw.



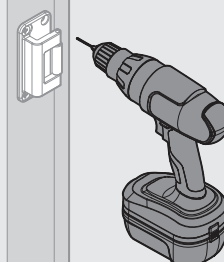
**49** Install (1) screw, bottom left.



**50** Close door and engage lock with strike. Manually position strike for best engagement. Add/remove strike spacers as necessary. Once aligned, tighten (2) previously installed screws.



**51** Mark and pre-drill remaining mounting holes (3x) using strike holes as guide.





**52** Secure strike with (3) remaining #10 sheet metal screws or #10-32 machine screws, tighten securely. If machine screws are used, threadlocker is recommended.

**53** Adjust trip mechanism to engage strike. Slowly close door, observe whether the bolt is released upon closing. If bolt is not released, use a flat blade screwdriver and rotate the trip mechanism counter clockwise 1/2 turn. Repeat adjustment until bolt is extended upon door closing and rotate trip mechanism 1 additional full turn counter clockwise.

**54** Test all door and lock functions for proper operation. Make necessary adjustments if required.

To access High Security Combination Lock: Unlock center module and upper module with key, remove (6) interior module cover assembly screws and (2) lock cover screws. Time to perform this operation is 1 min 10 sec. Reverse process to re-install covers. Refer to High Security Combination Lock - Operating Instructions for detailed instruction, including how to change lock combination.

**55** Slide panic bar touch pad partially from panic bar channel.

**56** Align panic interface mechanism to panic bar touch pad.

**57** From backside of panic bar touch pad, secure panic interface mechanism with (2) #8-32 x 3/8" screws.

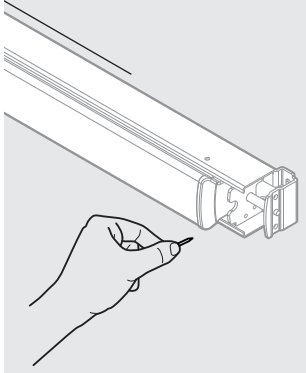
**58** Slide panic bar touch pad back into panic bar channel, insert panic bar channel bracket and filler panel into panic bar channel.

**59** Align panic bar assembly to lock assembly.

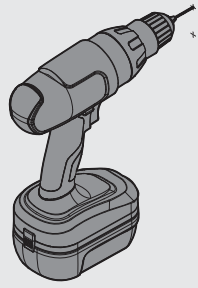
**60** Temporarily attach panic bar assembly to interior mounting plate using (2) #10-32 x 1/2" screws.

**61** Level panic bar assembly.

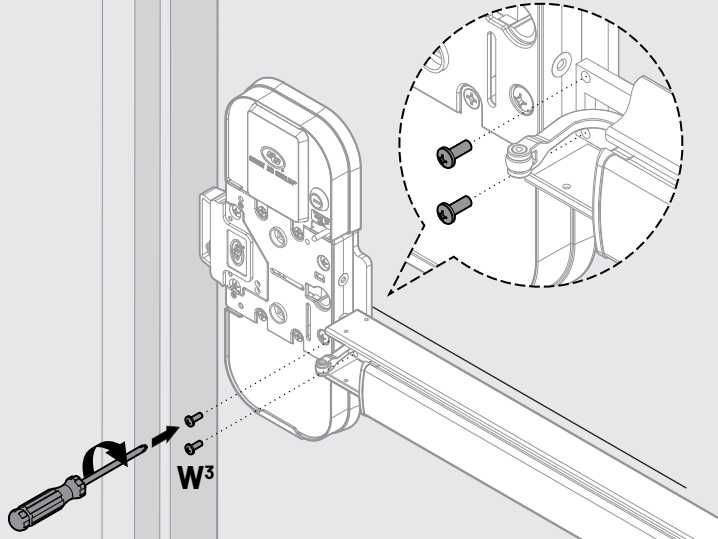
**62** Mark panic bar channel bracket hole locations.



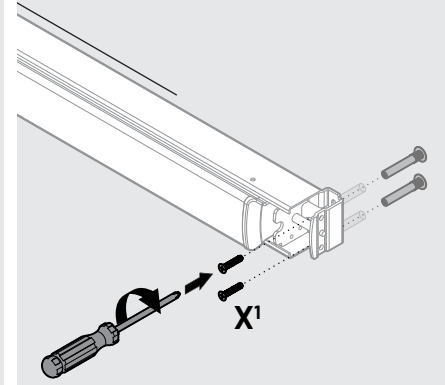
**63** Remove panic bar assembly. Drill (2) mounting holes Ø3/8" through door, as marked.



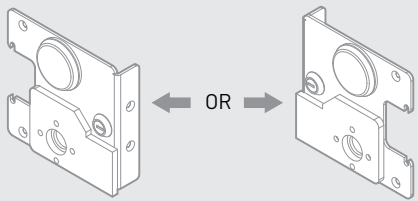
**64** Re-install panic bar assembly and secure with (2) #10-32 x 1/2" screws.



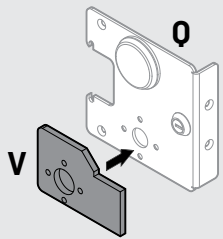
**65** Secure panic bar channel bracket to door with (2) architectural bolts #10-24 x 1".



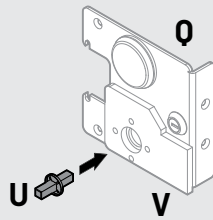
**66** Verify that interior center cover and panic mechanism shim are oriented correctly. If not, remove screws, rotate, and re-install.



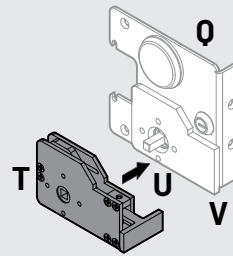
Align panic mechanism shim to interior center cover.



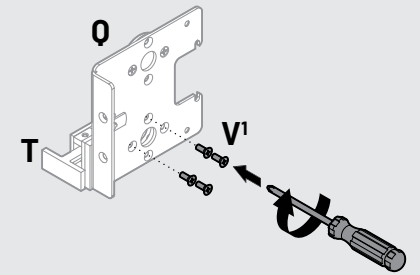
**67** Insert short spindle.



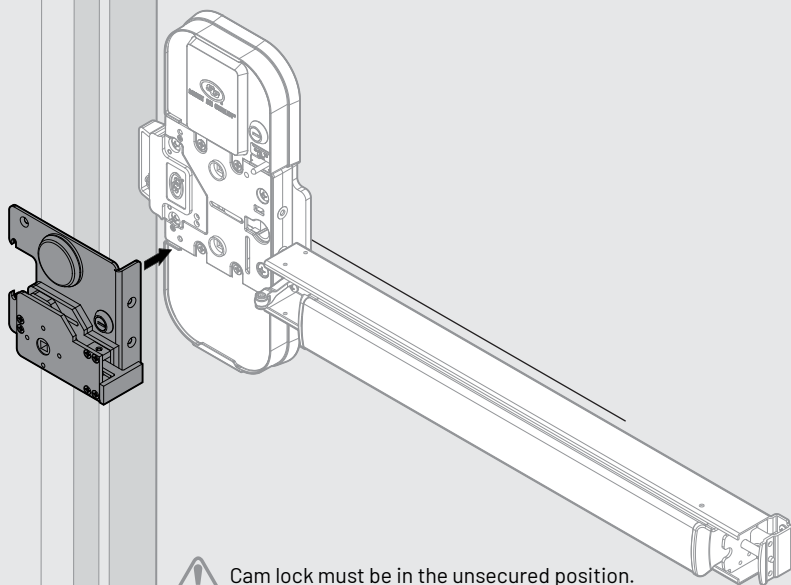
**68** Align panic mechanism to panic mechanism shim.



**69** Secure panic mechanism shim and panic mechanism to interior center cover using (4) #10-32 x 1/2" flat head screws.

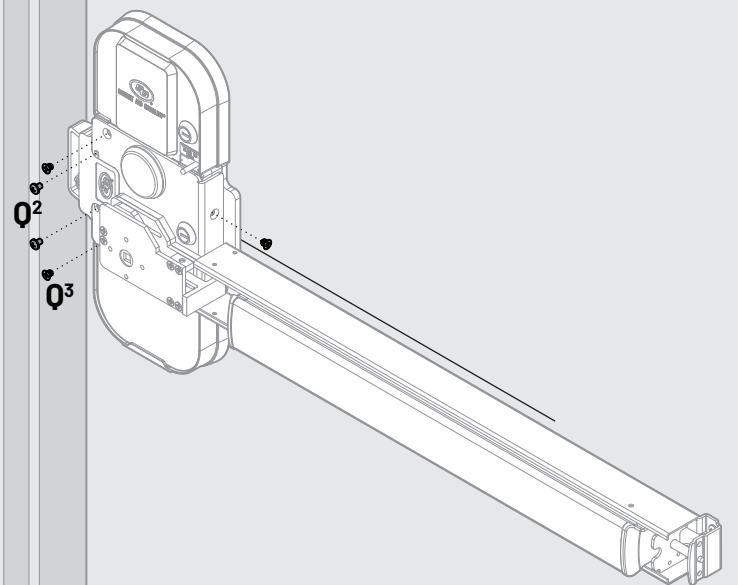


**70** Align interior center cover assembly to mechanical assembly.

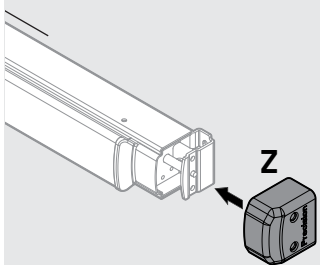


⚠ Cam lock must be in the unsecured position.

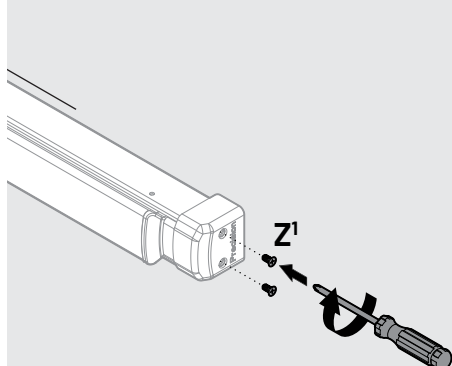
**71** Install interior center cover assembly. Ensure that the exit module engages the spindle and panic mechanism. Secure with (2) #10-32 x 1/4" pan head screws and (3) #10-32 x 1/4" flathead screws.



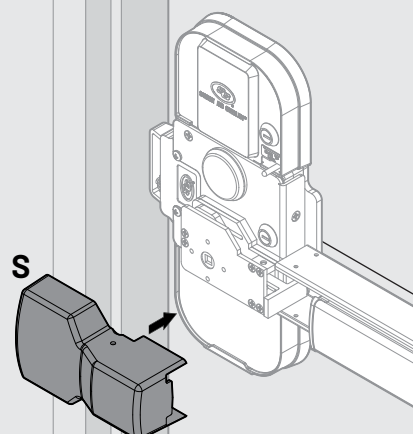
**72** Install endcap.



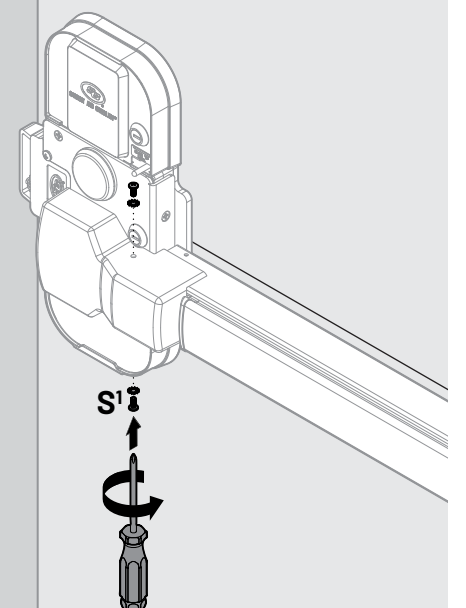
**73** Secure endcap to panic bar channel bracket using (2) #10-24 x 3/8" flat head screws.



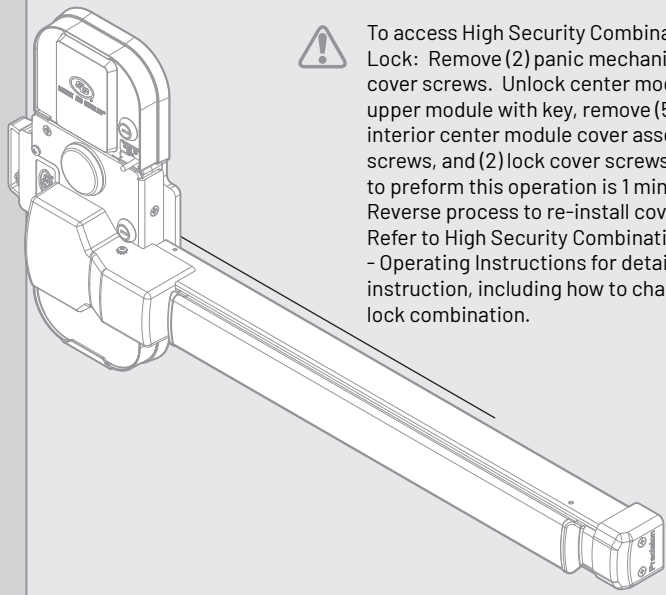
**74** Install panic mechanism cover.



**75** Secure panic mechanism cover to panic mechanism using (2) #8-32 x 1/2" screws and star washers.

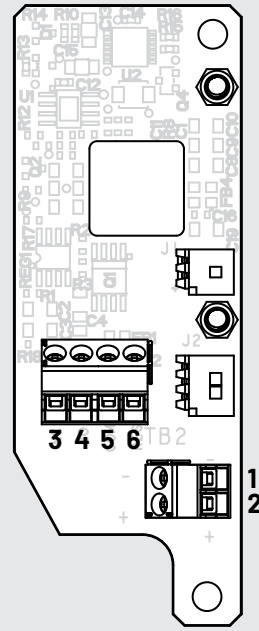


Test all door and lock functions for proper operation. Make necessary adjustments if required.



To access High Security Combination Lock: Remove (2) panic mechanism cover screws. Unlock center module and upper module with key, remove (5) interior center module cover assembly screws, and (2) lock cover screws. Time to perform this operation is 1 min 10 sec. Reverse process to re-install covers. Refer to High Security Combination Lock - Operating Instructions for detailed instruction, including how to change lock combination.

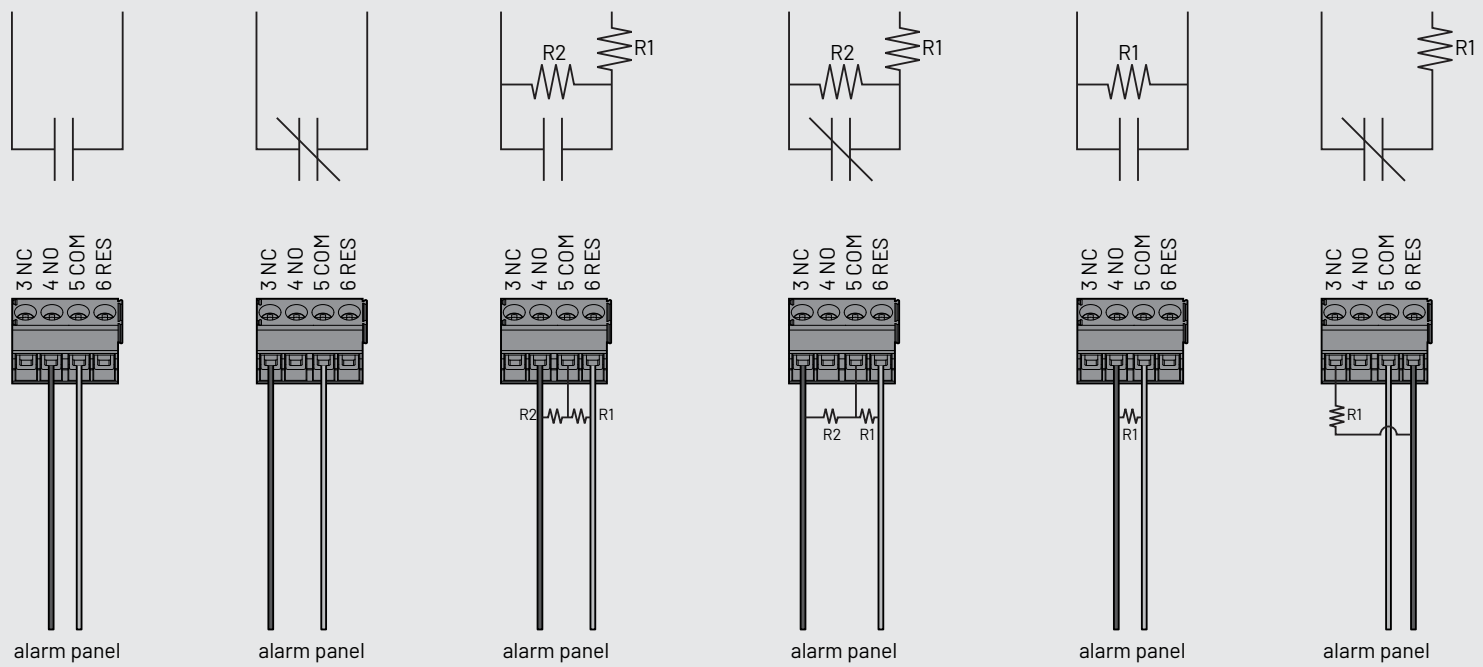
**Access Control Wiring**



Requirements:  
Operating Voltage 12-24 VDC  
Conductors 18-22 AWG

1. - V
2. + V
3. Normal Closed (NC)
4. Normal Open (NO)
5. Common (COM)
6. Resistor (RES)

**Alarm Panel Wiring Options**



For assistance or warranty information:  
Call 1-859-885-9411 or visit  
[www.sargentandgreenleaf.com](http://www.sargentandgreenleaf.com)

Si desea ayuda o información sobre la garantía:  
llame al 1-859-885-9411 o visite  
[www.sargentandgreenleaf.com](http://www.sargentandgreenleaf.com)

Pour de l'aide ou des informations sur la garantie:  
Veuillez appeler le 1-859-885-9411 ou visiter  
[www.sargentandgreenleaf.com](http://www.sargentandgreenleaf.com)

**Warning:** This Manufacturer advises that no lock can provide complete security by itself. This lock may be defeated by forcible or technical means, or evaded by entry elsewhere on the property. No lock can substitute for caution, awareness of your environment, and common sense. Builder's hardware is available in multiple performance grades to suit the application. In order to enhance security and reduce risk, you should consult a qualified locksmith or other security professional.

**Advertencia:** Este fabricante debe saber que no hay cerraduras que puedan proporcionar seguridad completa por sí mismas. Esta cerradura puede fallar forzandola o utilizando medios técnicos o entrando por otra parte del edificio. No hay cerraduras que puedan sustituir precaución, estar al tanto de su entorno y sentido común. Este fabricante también ofrece cerraduras de diferentes grados y rendimientos para ajustarse a su aplicación. Para mejorar la seguridad y reducir riesgos, usted debe consultar con un cerrajero especializado u otro profesional de seguridad.

**Advertissement:** Le fabricant tient à vous aviser qu'aucun verrou ne peut à lui seul offrir une sécurité complète. Ce verrou peut être mis hors d'état par la force ou des moyens techniques ou être évité par utilisation d'une autre entrée sur la propriété. Aucun verrou ne peut remplacer la surveillance de votre environnement et le bon sens. La quincaillerie pour le constructeur est offerte selon différents grades de performance pour différentes applications. Afin d'augmenter la sécurité et de réduire le risque, vous devriez consulter un serrurier qualifié ou un autre professionnel de la sécurité.