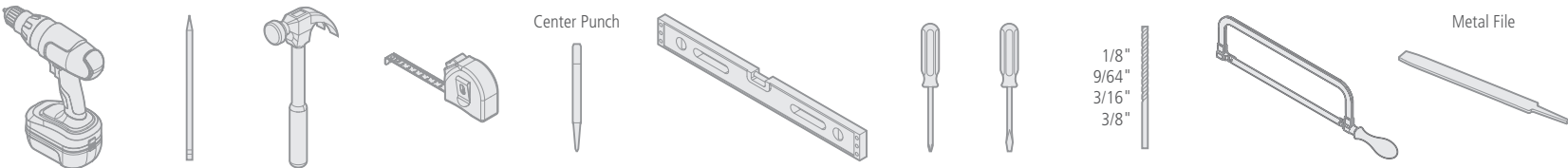


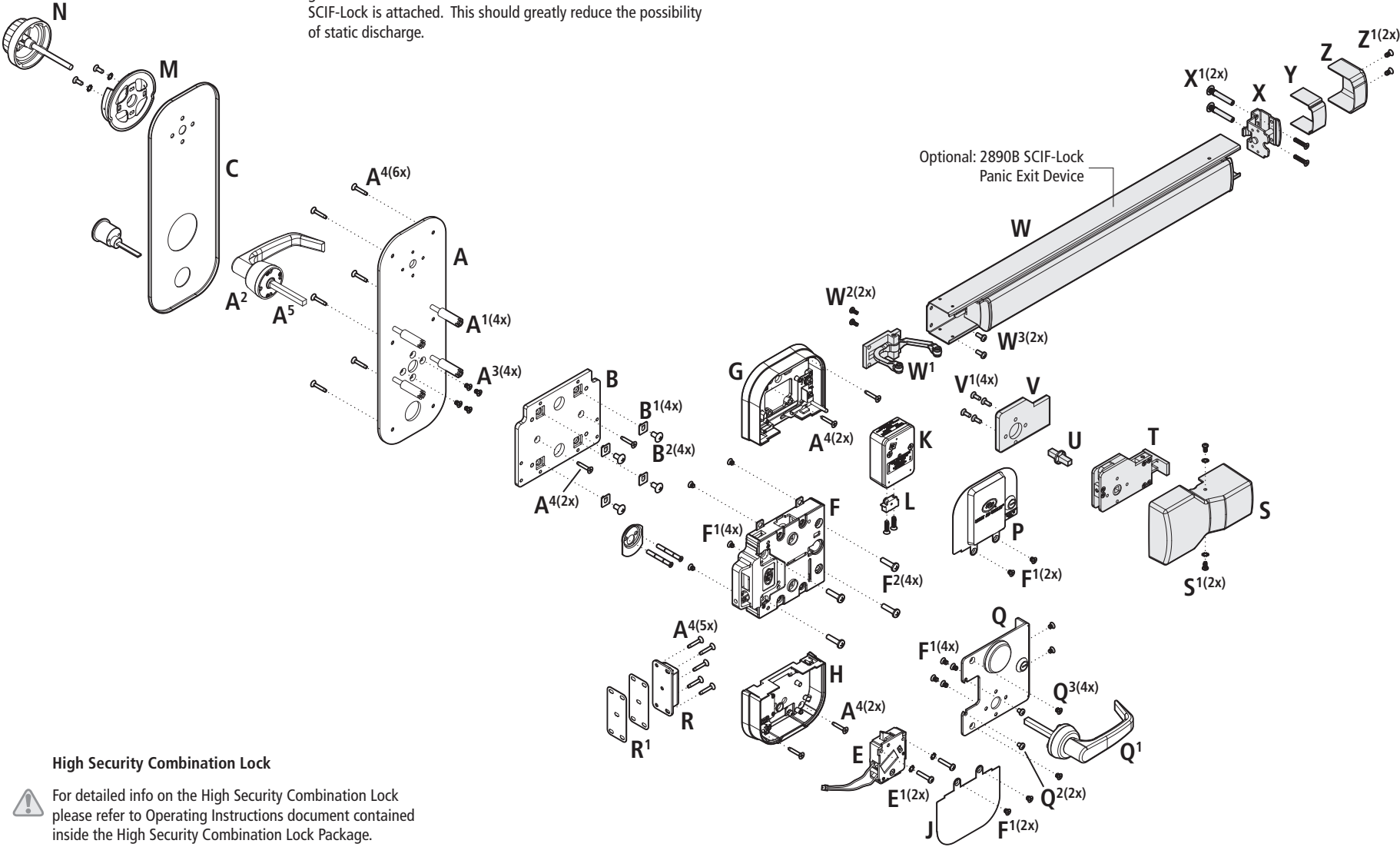


Tools Needed




 The 2890B 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 2890B 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 2890B SCIF-Lock is attached. This should greatly reduce the possibility of static discharge.

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



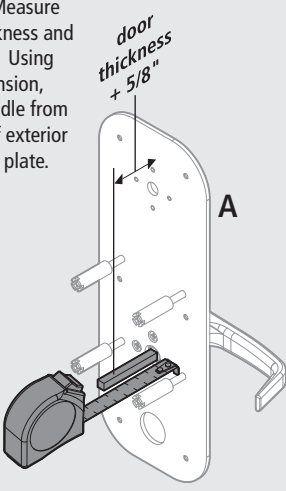
Optional: 2890B SCIF-Lock Panic Exit Device

**High Security Combination Lock**

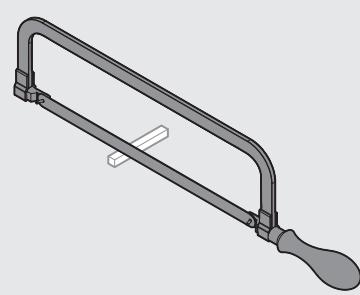
 For detailed info on the High Security Combination Lock please refer to Operating Instructions document contained inside the High Security Combination Lock Package.

A	Exterior Mounting Plate	R	Strike
A <sup>1(4x)</sup>	Depth Adjusters	R <sup>1</sup>	Strike Spacers
A <sup>2</sup>	Exterior Handle Assembly	S	Panic Mechanism Cover
A <sup>3(4x)</sup>	Screw 1/4-20 x 1/2"	S <sup>1(2x)</sup>	Screw #8-32 x 1/2", Washers
A <sup>4(17x)</sup>	Screw #10 Sheet Metal	T	Panic Mechanism
A <sup>5</sup>	Exterior Spindle	U	Short Spindle
B	Interior Mounting Plate	V	Panic Mechanism Shim
B <sup>1(4x)</sup>	Tabbed Washer	V <sup>1(4x)</sup>	Screw #10-32 x 1/2"
B <sup>2(4x)</sup>	Screw 1/4-20 x 1/2" Truss Head	W	Panic Bar
C	Exterior Escutcheon	W <sup>1</sup>	Panic Interface Mechanism
E	Access Control Assembly	W <sup>2(2x)</sup>	Screw #8-32 x 3/8"
E <sup>1(2x)</sup>	Screw #10-32 x 1", Washers	W <sup>3(2x)</sup>	Screw #10-32 x 1/2"
F	Mechanical Assembly	X	Panic Bar Channel Bracket
F <sup>1(12x)</sup>	Screw #10-32 x 1/4"	X <sup>1(2x)</sup>	Architectural Bolt #10-24 x 1"
F <sup>2(4x)</sup>	Screw 1/4"-20 x 1"	Y	Filler Panel
G	Lock Housing	Z	End Cap
H	Access Control Housing	Z <sup>1</sup>	Screw #10-24 x 3/8"
J	Access Control Cover		
K	High Security Combination Lock		
L	Bolt Extension, #10-32 Screws		
M	Combination Lock Dial Ring		
N	Combination Lock Dial		
P	Combination Lock Cover		
Q	Interior Center Cover		
Q <sup>1</sup>	Lever Handle		
Q <sup>2</sup>	Screw #10-32 x 1/4" Pan Head		
Q <sup>4</sup>	Screw #10-32 x 1/4" Flat Head		

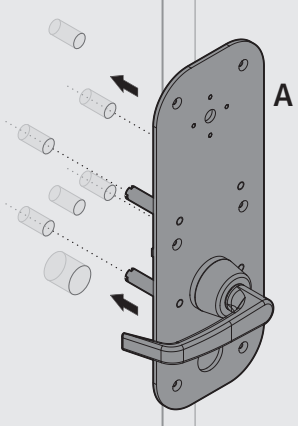
**1** Make sure exterior spindle is fully seated inside handle. Measure door thickness and add 5/8". Using this dimension, mark spindle from surface of exterior mounting plate.



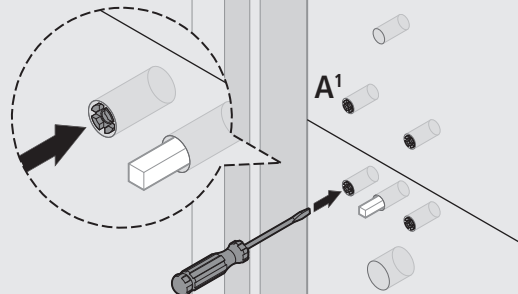
**2** Cut exterior spindle where marked, use metal file to smooth edges. After cutting, insert exterior spindle into handle drive hole.



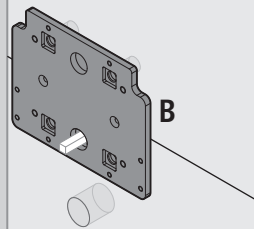
**3** Align exterior mounting plate assembly to the through holes on door exterior. Position exterior mounting plate assembly flush against exterior side of door.



**4** 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.



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



6

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

7

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

8

Level interior mounting plate and exterior mounting plate assembly.

9

Tighten (4) screws securely, making sure both sides stay level.

10

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

11

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

12

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.

13

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

14

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

15

Install the rim cylinder through the exterior escutcheon.

16

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"

17

Locate the access control assembly, remove (2) screws and temporarily remove access control assembly. Set these parts aside.

18

Orient mechanical assembly, depending upon specific application installation.

19

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

20

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

21

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.

22

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

23

⚠

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

24

Pre-Drill mounting holes (4x) as marked. For steel door drill Ø9/64", for wood door drill Ø1/8". Gauge hole depth by length of mounting screws.

25

Install (4) #10 sheet metal screws and tighten securely.

26

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

27

Insert access control assembly into access control housing, with the bolt extending up into the mechanical assembly. Align the rim cylinder tab through the slot on the access control assembly.

28

Route and connect the cables to the PCB.

29

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

i

At this point, the access control assembly could be connected to a 12-24V power supply and an authentication device. Refer to AC Wiring Diagram on page 6.

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

Attach bolt extension to high security combination lock bolt. Orient as shown. Secure with (2) #10-32 screws.

⚠

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

33

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

34

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.

35

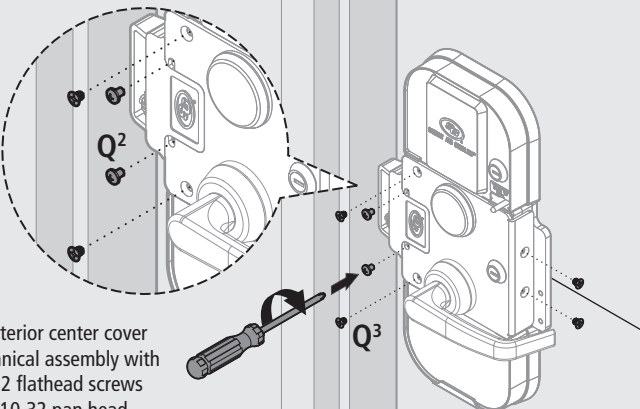
Secure combination lock cover with (2) #10-32 x 1/4" flat head screws.

36

Install interior center cover or refer to step 52-74 for panic exit device installation. Refer to steps 38-49 for strike installation.

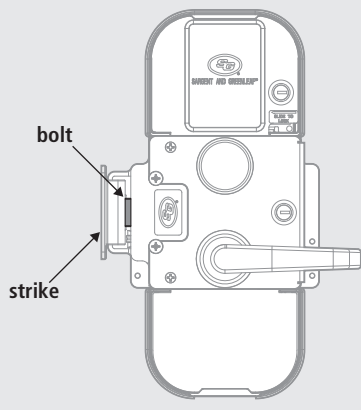


37

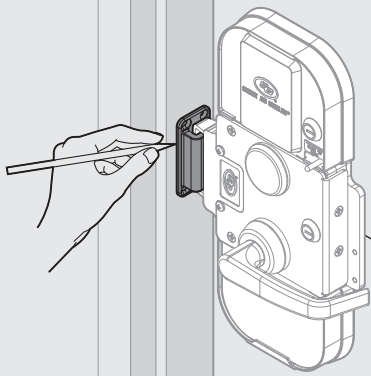


Secure interior center cover to mechanical assembly with (4) #10-32 flathead screws and (2) #10-32 pan head screws.

38

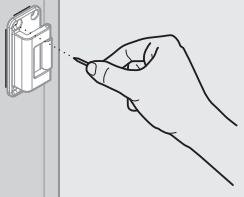


Position strike on frame with bolt extended into strike. Align strike with equal space top and bottom of bolt.



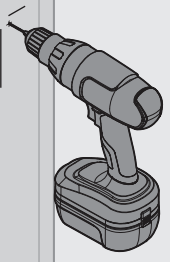
Mark strike position reference lines on frame.

39



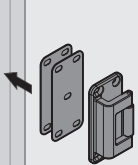
Retract bolt, open door, and realign strike to reference lines on frame. Center punch top left slotted strike mounting hole (1x).

40




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

41

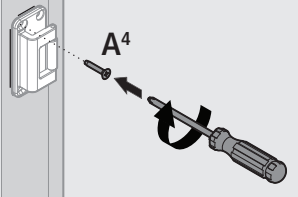


Align strike spacers and strike to previously drilled hole on door frame.



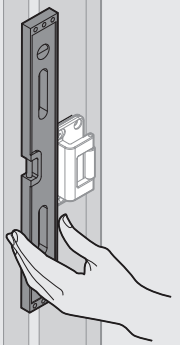
Spacers are used to adjust clearance between the strike & lock and are not required for every installation.

42



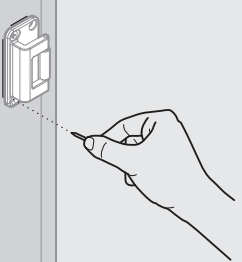
Install (1) screw, top left. Apply Loctite® Threadlocker if using machine screws.

43



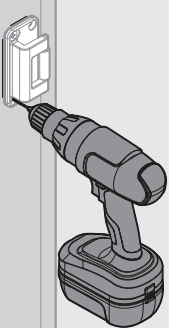
Level strike.

44



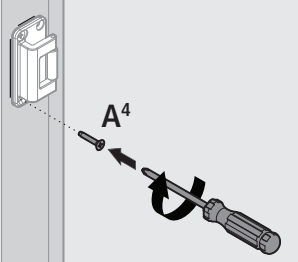
Center punch bottom left slotted strike mounting hole (1x).

45



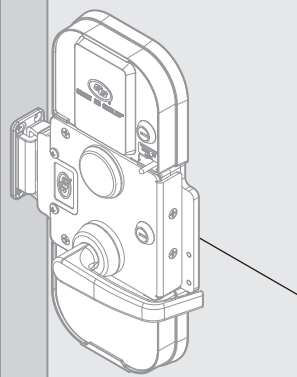
Pre-Drill for #10 sheet metal screw or drill & tap for #10-32 machine screw.

46



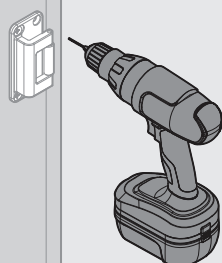
Install (1) #10 sheet metal screw, bottom left.

47



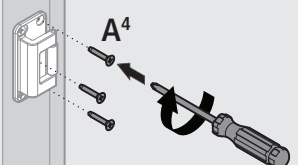
Close door and engage lock with strike. Manually position strike for best engagement. Add/remove strike spacers as necessary. Once aligned, tighten (2) previously installed screws.

48




Pre-Drill remaining mounting holes (3x) using strike holes as guide. For steel frame drill Ø9/64", for wood frame drill Ø1/8". Gauge hole depth by length of mounting screws.

49

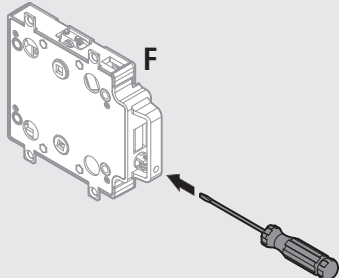


Secure strike with (3) remaining #10 sheet metal screws, tighten securely.


50



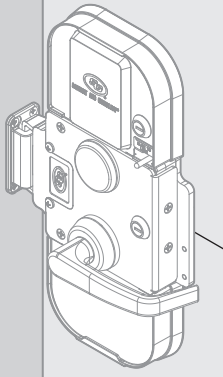
Adjust trip mechanism to engage strike. Slowly close door, observe whether the bolt is released upon closing. If bolt is not released, use a flat blade screwdriver and rotate the trip mechanism counter clockwise 1/2 turn. Repeat adjustment until bolt is extended upon door closing and rotate trip mechanism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



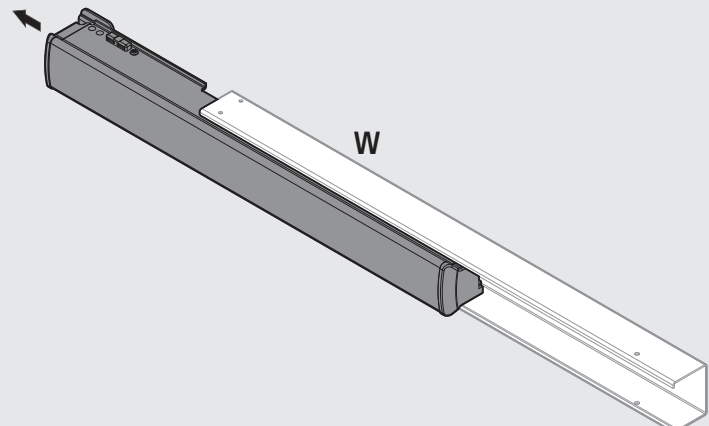
51



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 preform 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.

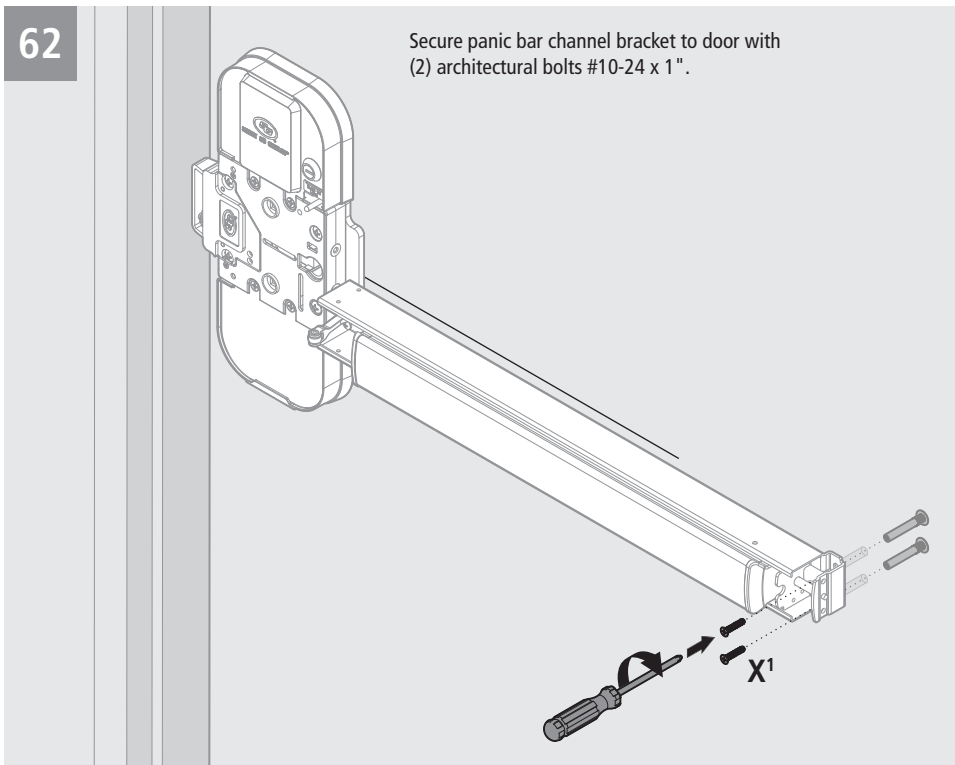
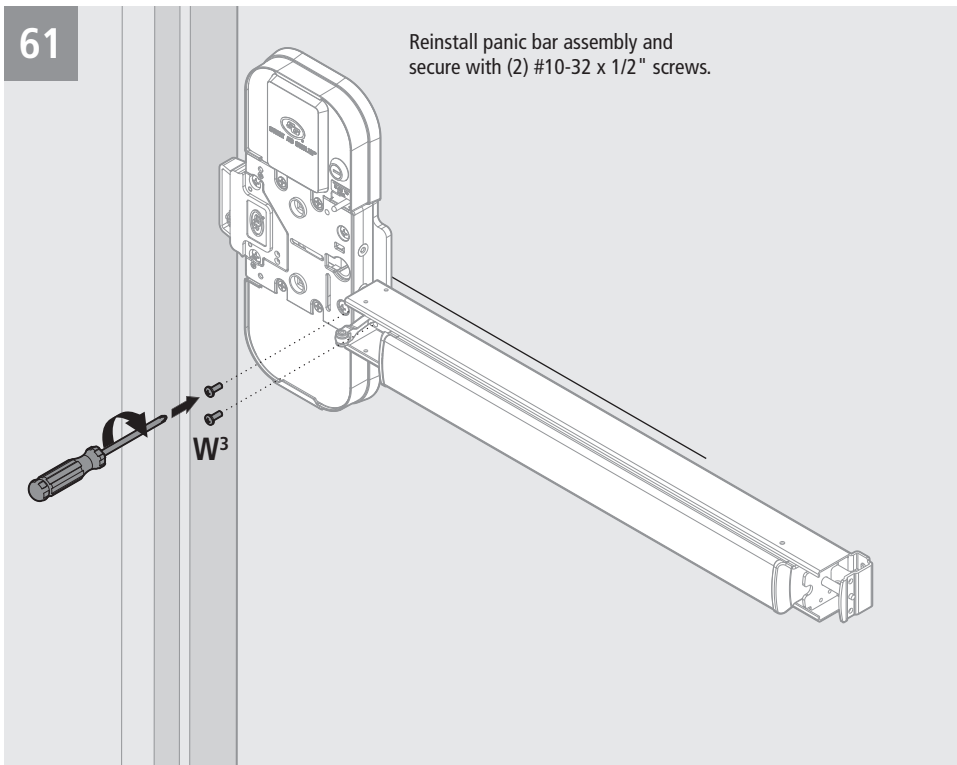
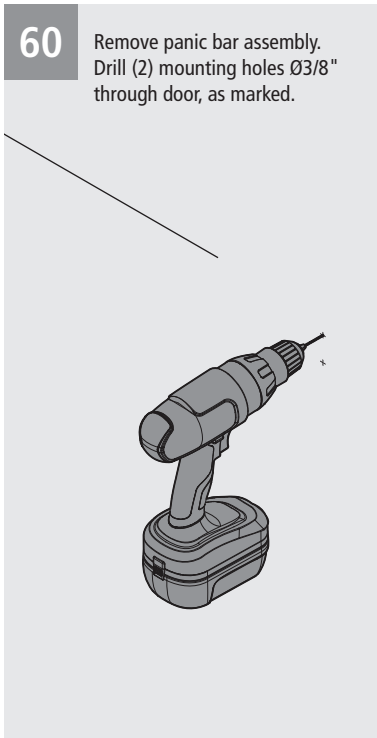
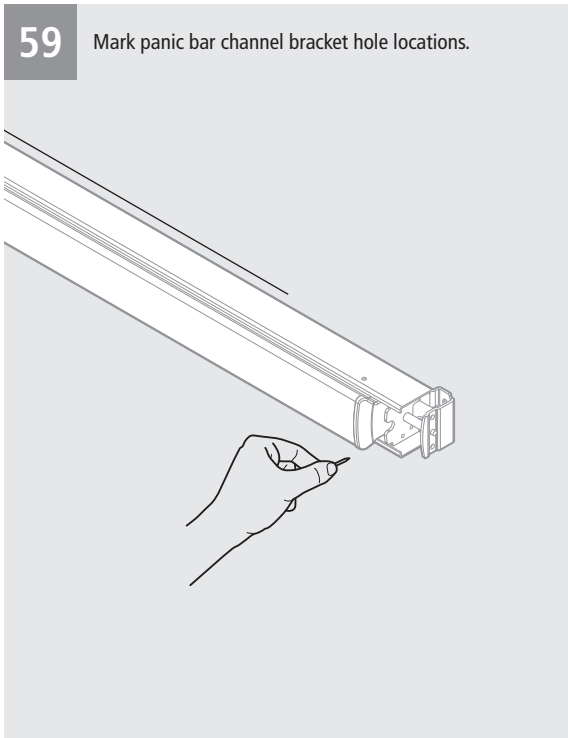
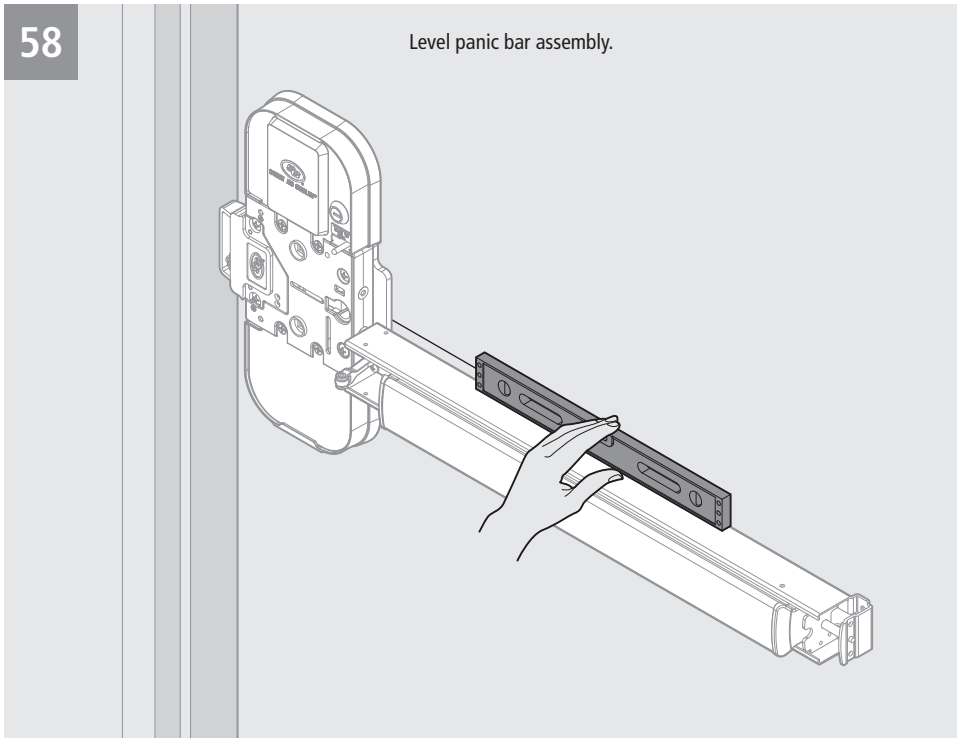
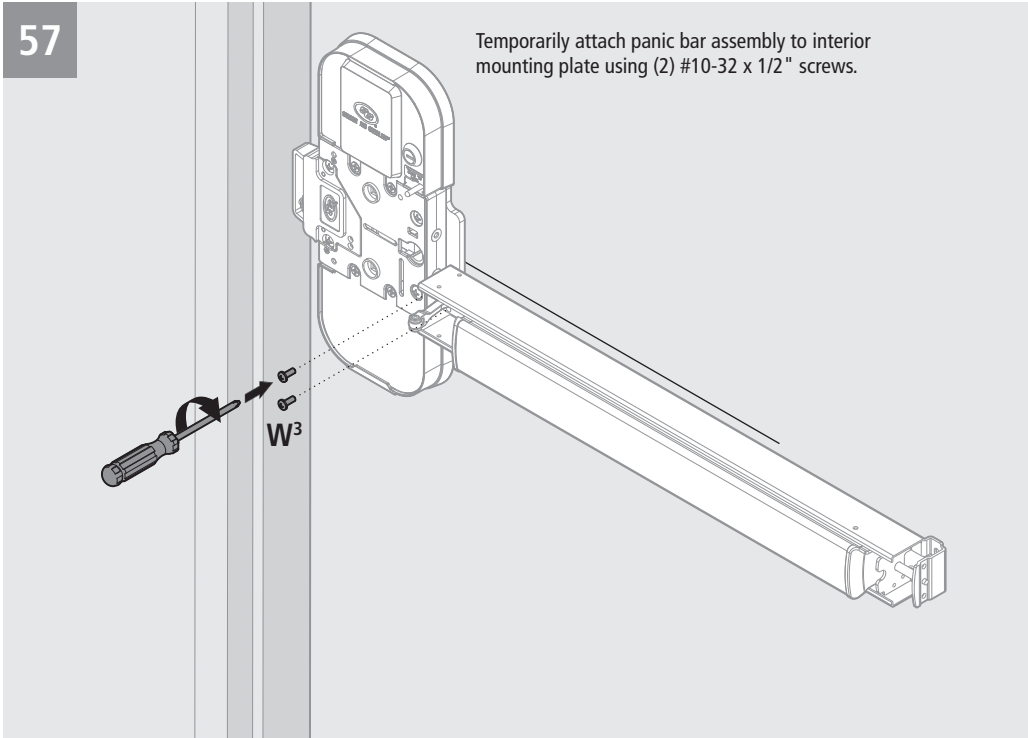
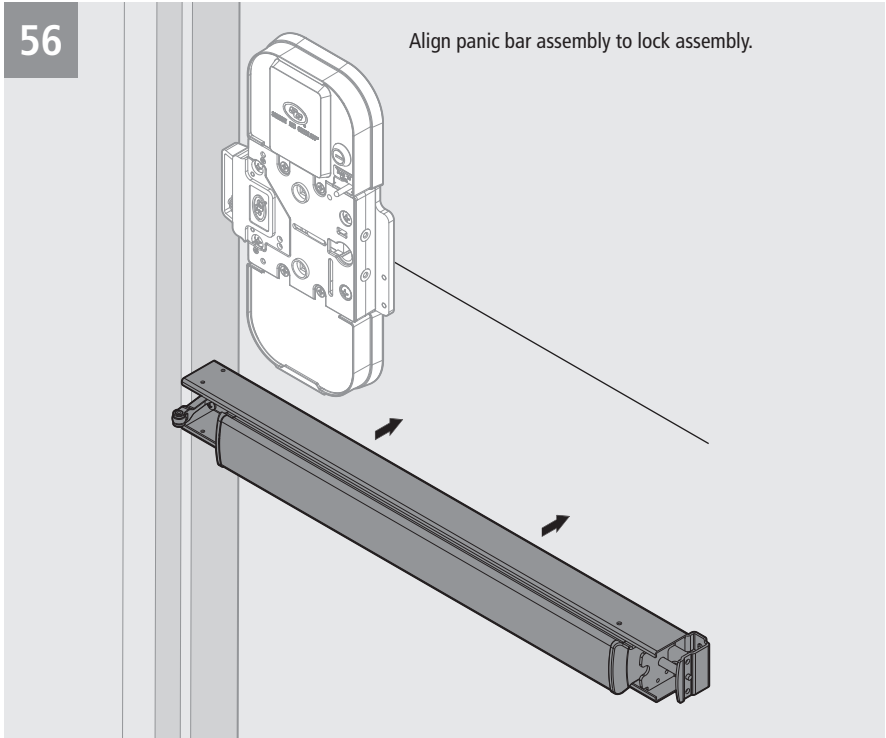
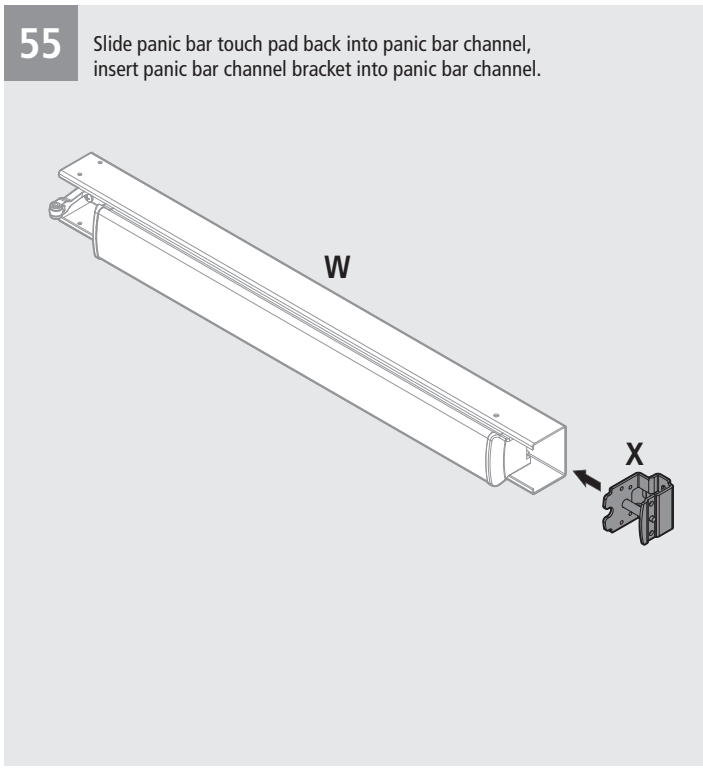
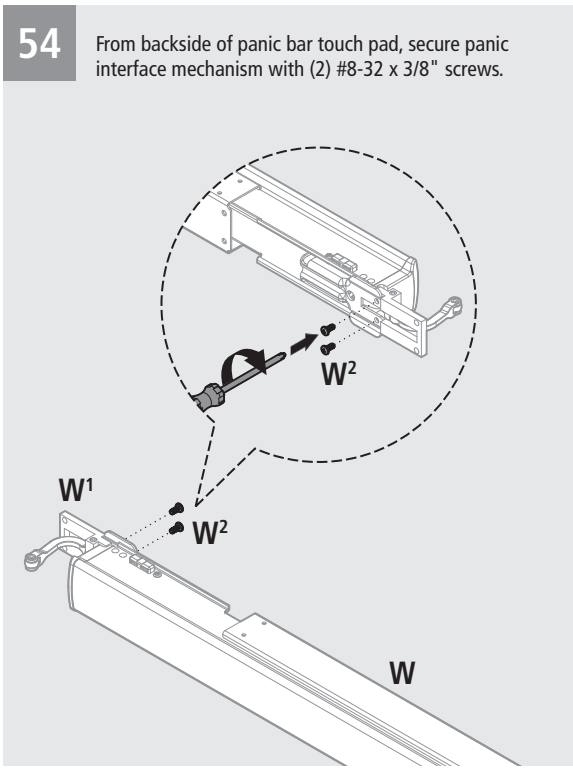
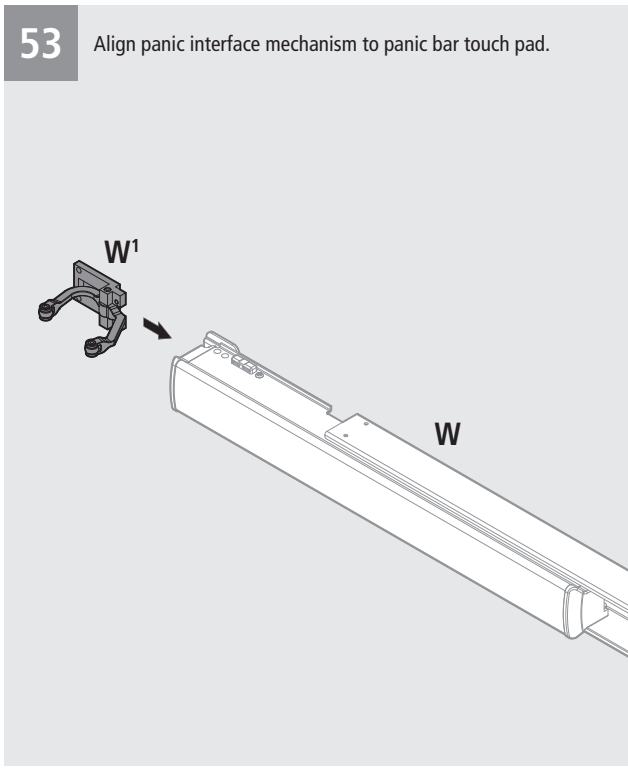


52



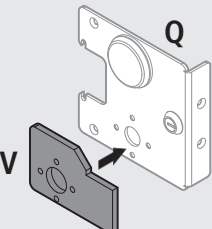
Slide panic bar touch pad partially from panic bar channel.





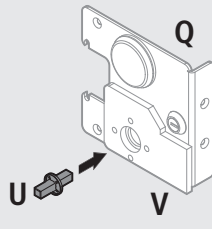
63

Align panic mechanism shim to interior center cover



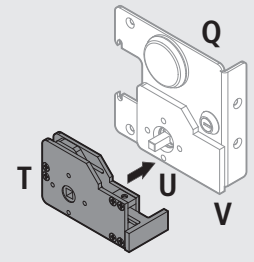
64

Insert short spindle.



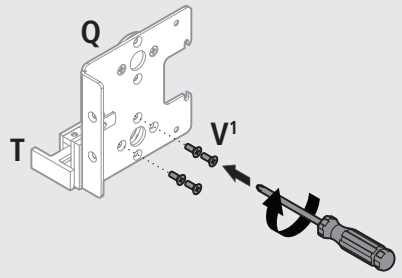
65

Align panic mechanism to panic mechanism shim.



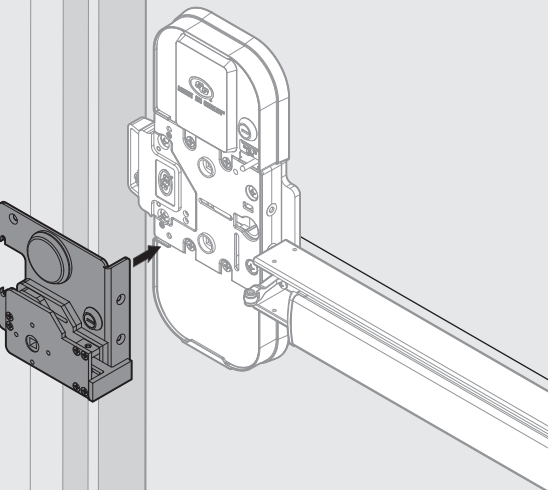
66

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



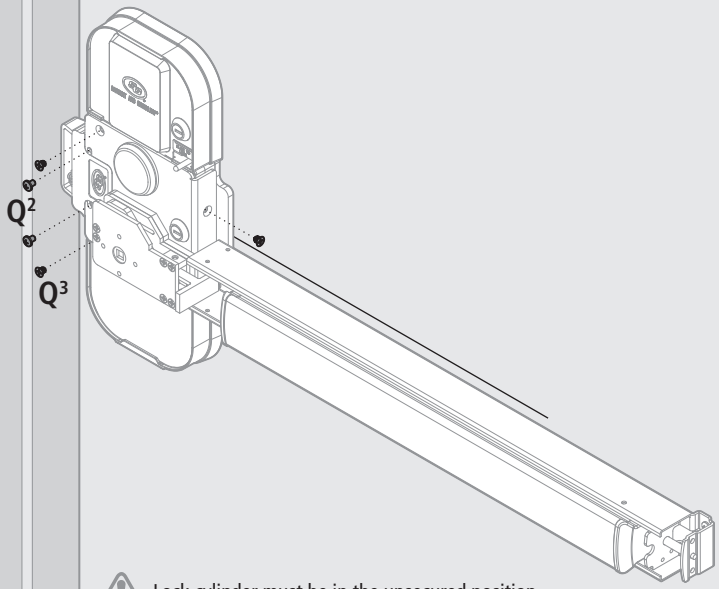
67

Align interior center cover assembly to mechanical assembly.



68

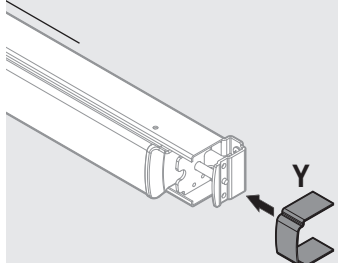
Install interior center cover assembly. Ensure that the exit module engages the spindle and panic mechanism. Secure with (2) #10-32 x 1/4" pan head screws and (3) #10-32 x 1/4" flathead screws.



⚠ Lock cylinder must be in the unsecured position.

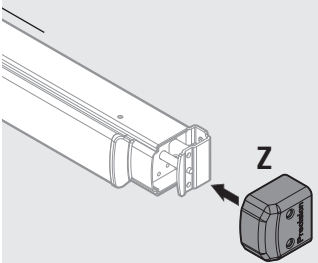
69

Slide filler panel into panic bar channel.



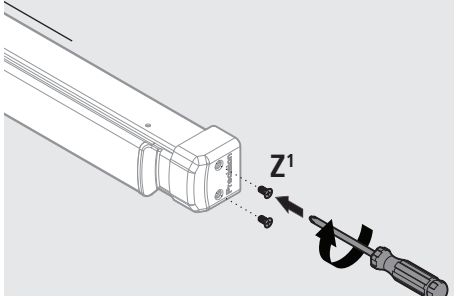
70

Install endcap.



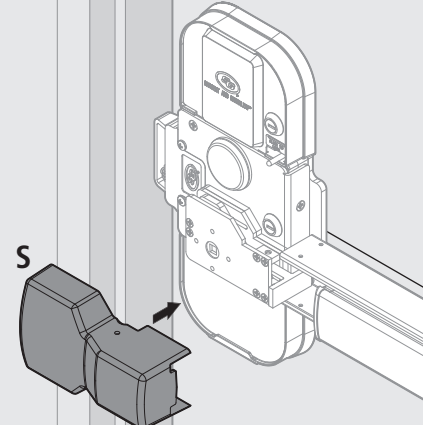
71

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



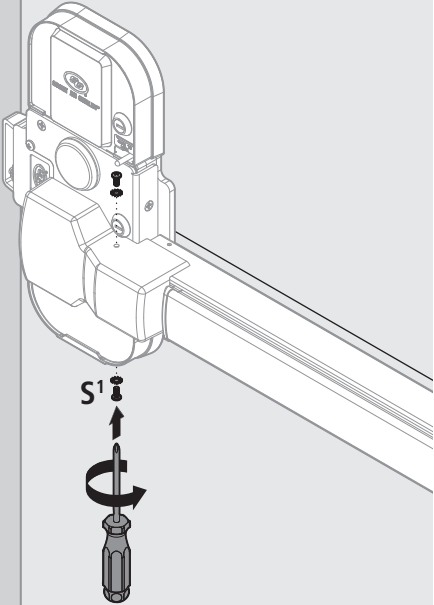
72

Install panic mechanism cover.



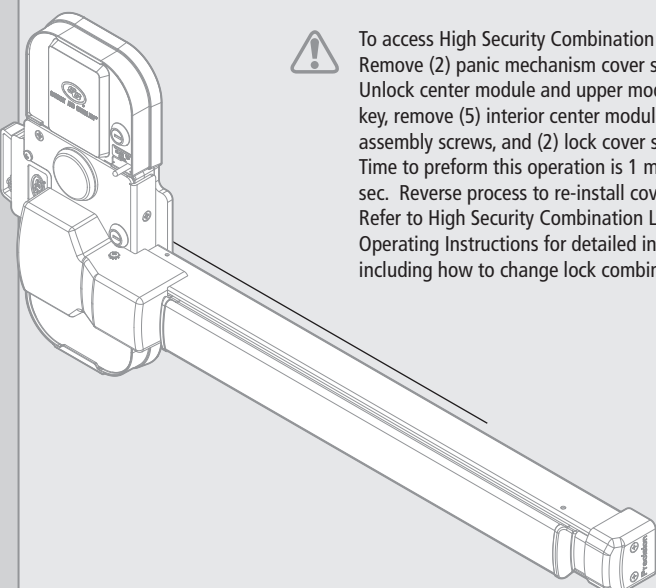
73

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



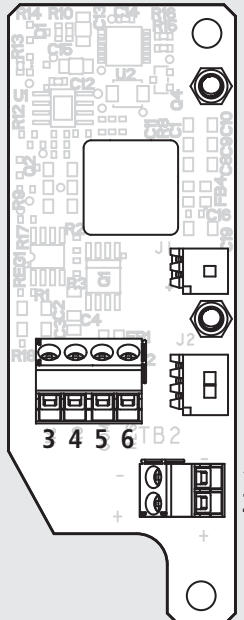
74

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 preform 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.

AC Wiring Diagram



1. 12-24 Volts Negative

2. 12-24 Volts Positive

3. Access Status Normally Closed

4. Access Status Normally Open

5. Access Status Common

6. Access Status Tamper

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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 ha de 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 l'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.