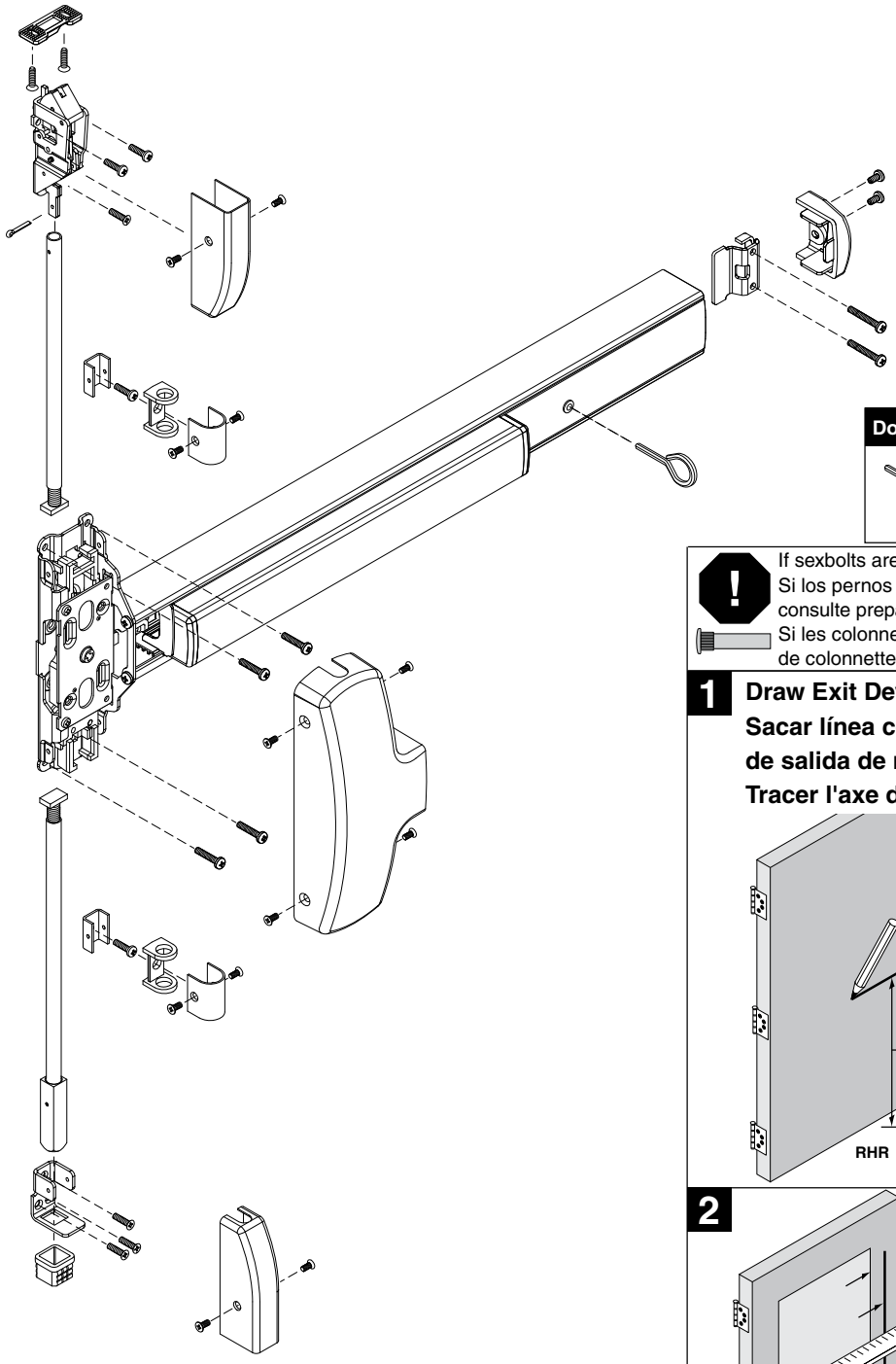
25-V & F-25-V

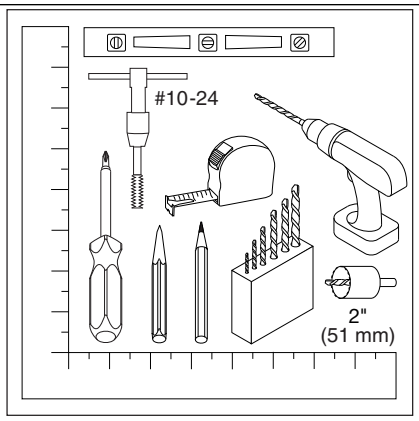
FALCON

640008-00

Surface Vertical Rod Exit Device
Dispositivo de salida con varilla vertical en la superficie
Appareil de sortie de la tige verticale de surface

Installation Instructions
Instrucciones de Instalacion
Notice d'Installation

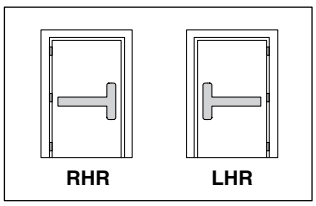




Dogging Key	Llave del trinquete	Œillet vissé
	Use to lock down pushbar Utilícela para asegurar hacia abajo la barra de empuje Utilisé pour verrouiller la barre antipanique	

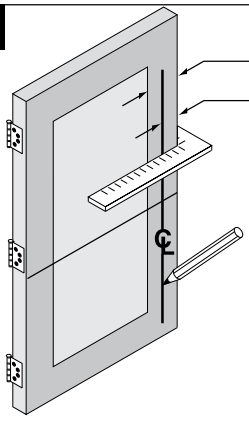
If sexbolts are in box, see Sexbolt Preparation on back page
Si los pernos macho-hembra se encuentran en la caja, consulte preparación de pernos macho-hembra en la página posterior
Si les colonnettes sont dans la boîte, voir la préparation de colonnettes au verso de la page

1 Draw Exit Device Centerline (℄)
Sacar línea central del dispositivo de salida de misión (℄)
Tracer l'axe du dispositif (℄)



40 ¼" (102 cm) from finished floor
102 cm desde el piso terminado
102 cm à partir du plancher fini

2



4" +	*3½"
2¾"	*1¾"

***Double door 25-V & 25-V only**
***Puerta doble solamente 25-V y 25-V**
***Porte double 25-V et 25-V seulement**

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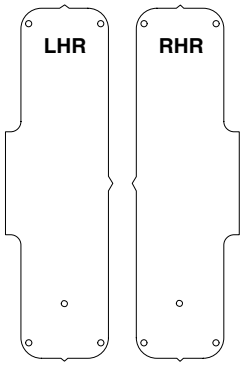
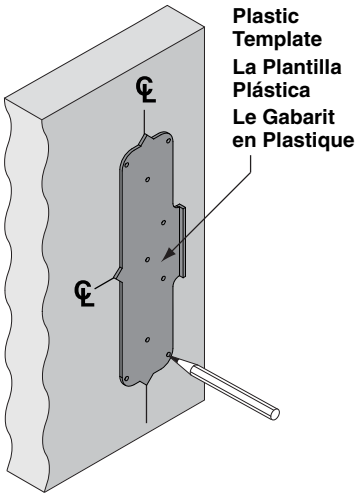
3

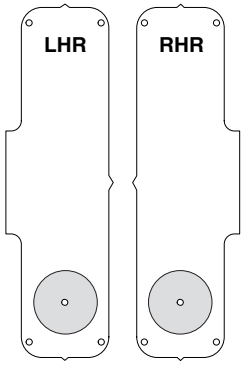
Mark 5 Holes
Marque 5 Agujeros
Marquer 5 Trous

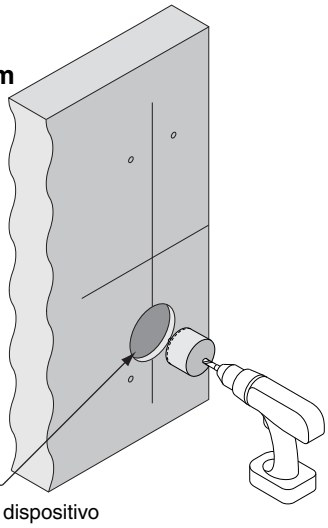




4

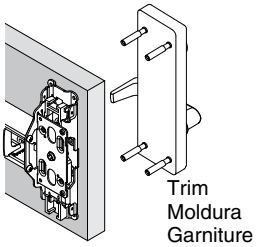
Cut 2" Hole
Corte un orificio de 51 mm
Couper un orifice de 51 mm





5

If Installing Trim, Go To Trim Instructions
Si instala una moldura vaya a las instrucciones de moldura
Pour l'installation d'une garniture, Voir les « Instructions de garniture »



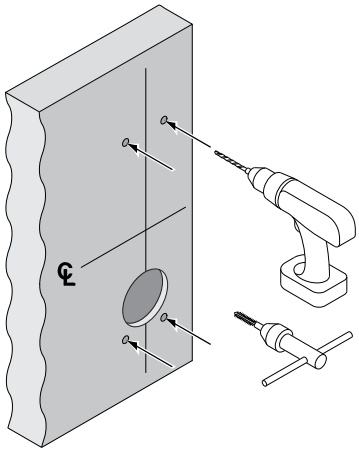
6

Prepare 4 Holes
Prepare 4 orificios
Préparer 4 orifices

F-25-V
#25
#10-24

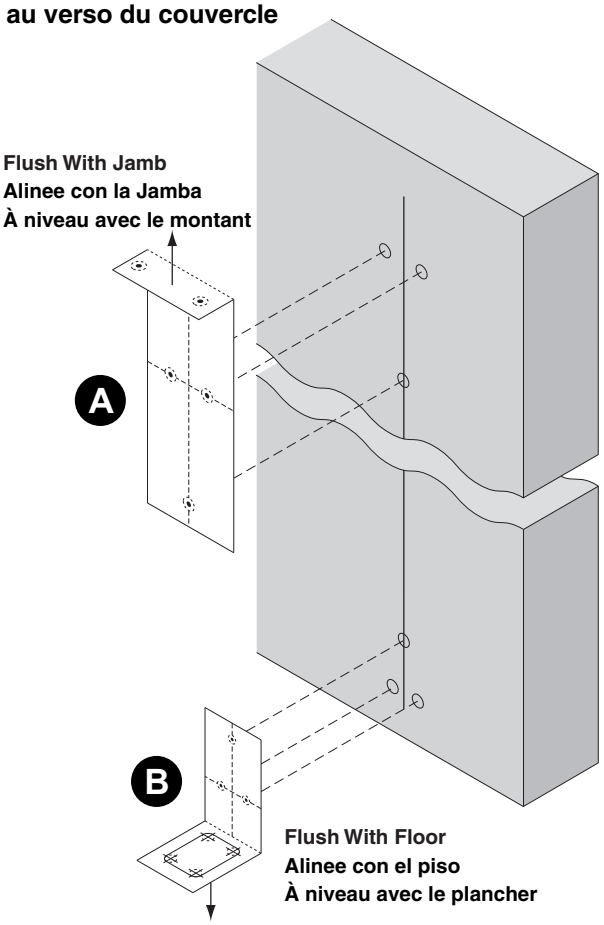
OR O OU

25-V
⅛" (3 mm) X 1" (25 mm)



7

Mark Door Using Paper Templates On Back Cover
Marque la puerta utilizando las plantillas de papel en la cubierta posterior
Marquer la porte en utilisant les gabarits de papier au verso du couvercle



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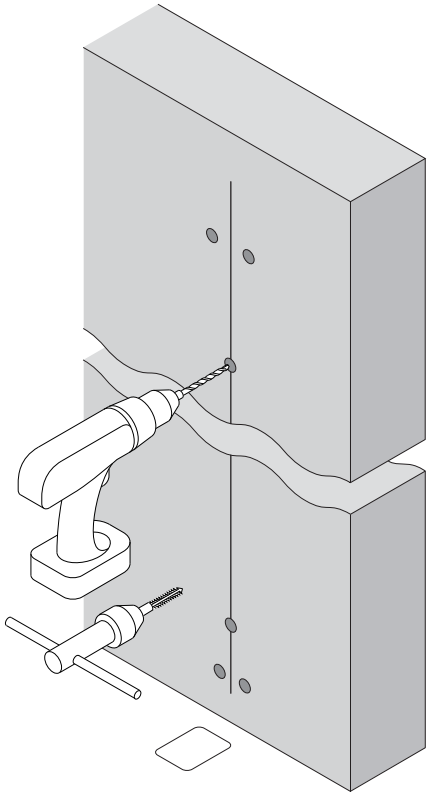
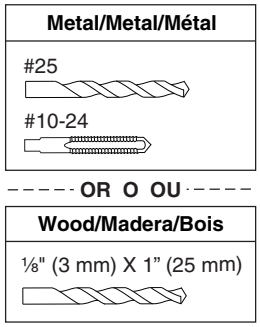


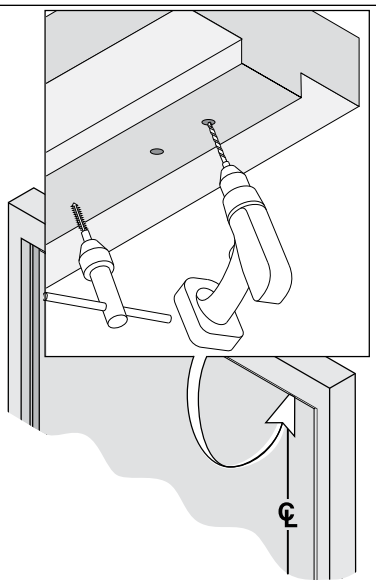
F-25-V
#25
#10-24

OR O OU

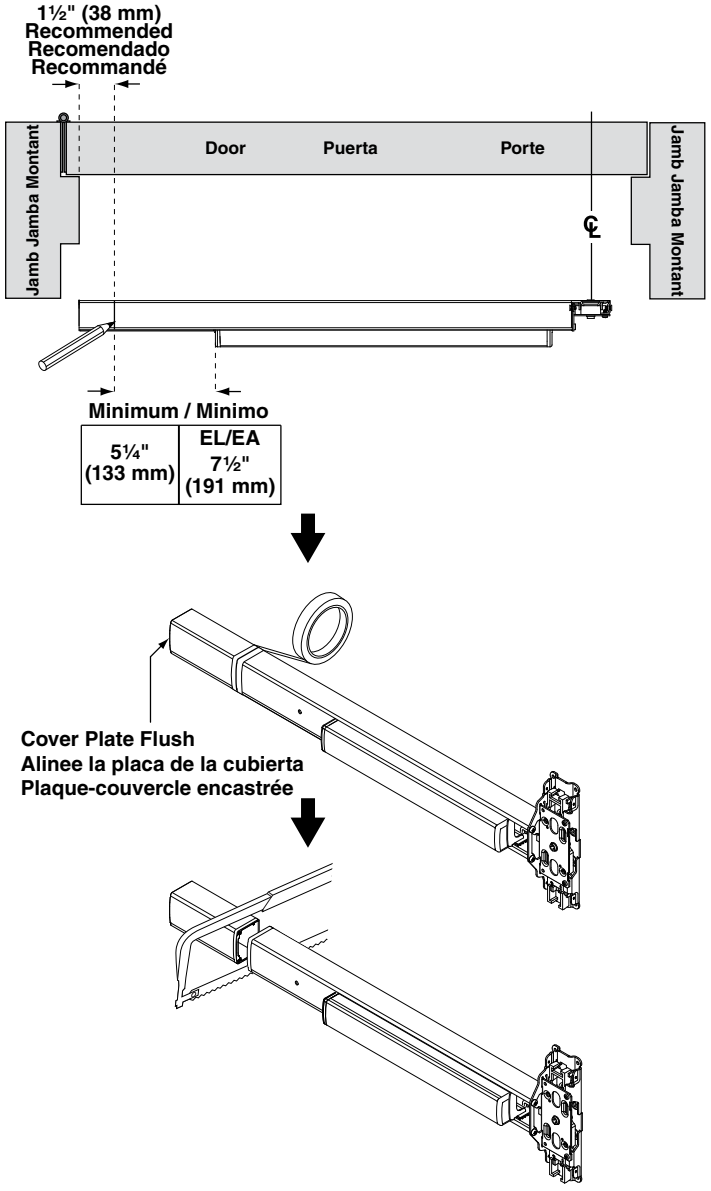
25-V
⅛" (3 mm) X 1" (25 mm)

9

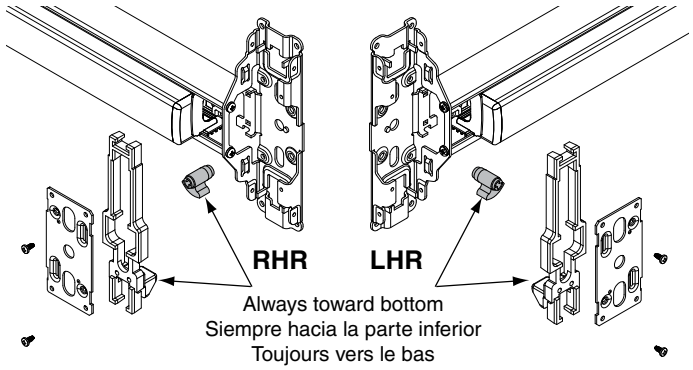




10 If Necessary, Cut Device
Si es necesario, corte el dispositivo
Couper le dispositif si nécessaire



11 If Necessary, Reverse Handing
Si es necesario, invierta la operación
Inverser l'assemblage si nécessaire



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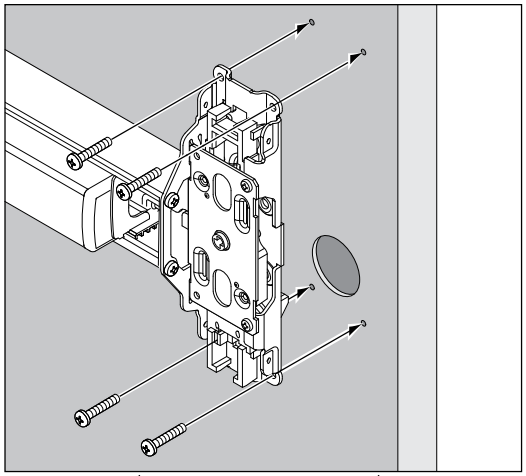

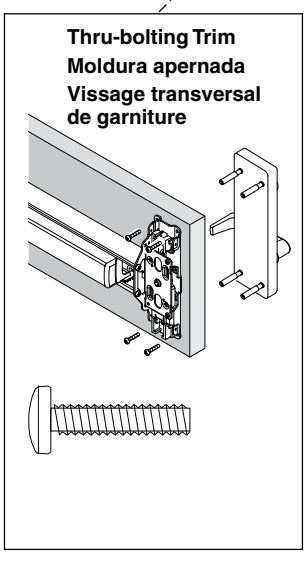

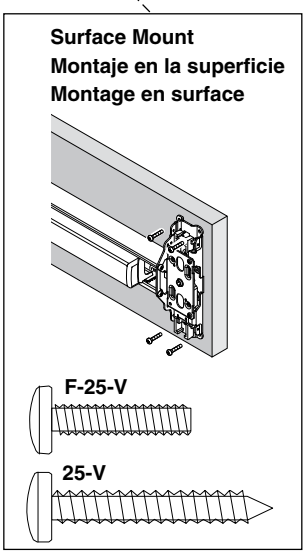

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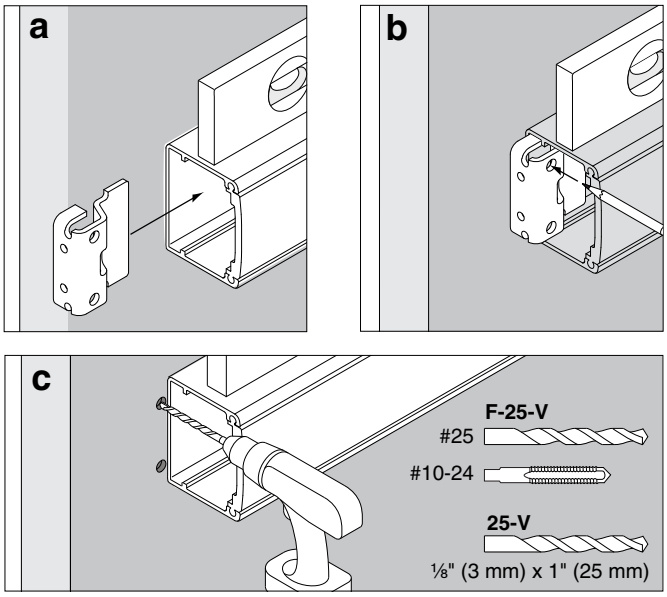

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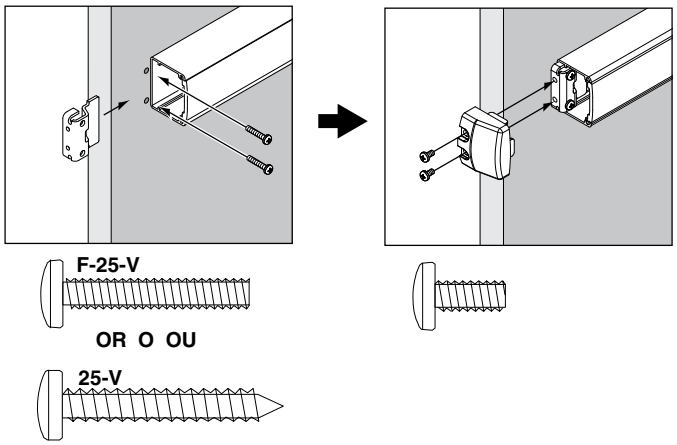

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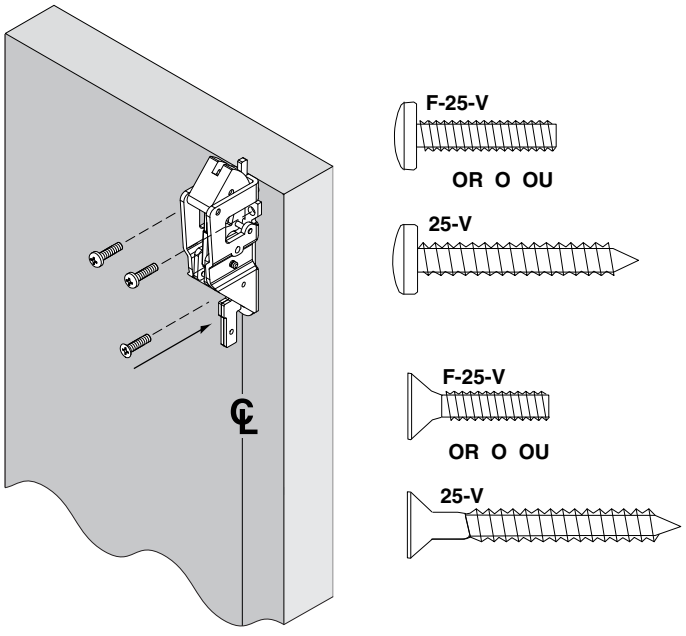

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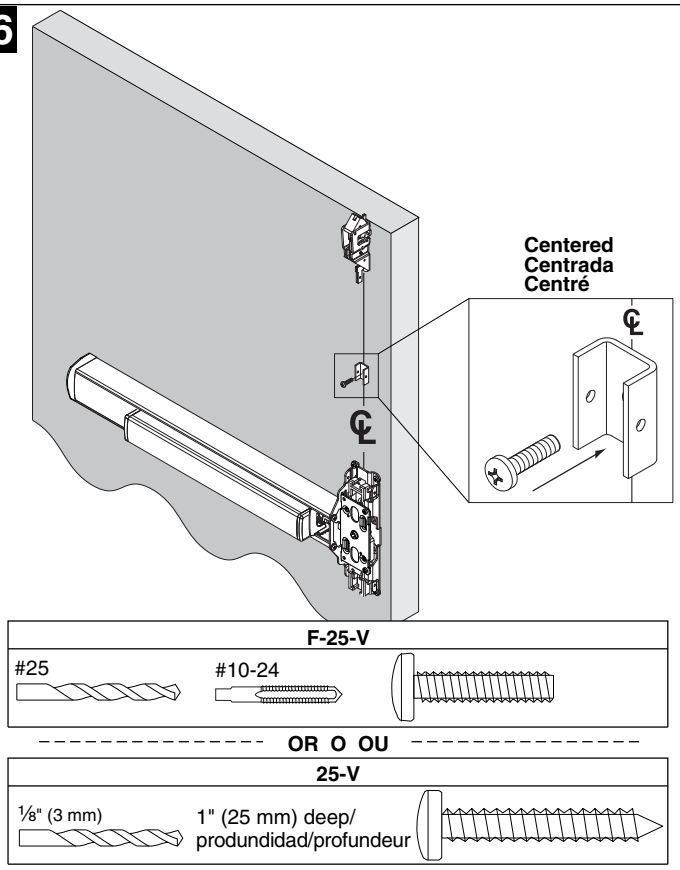

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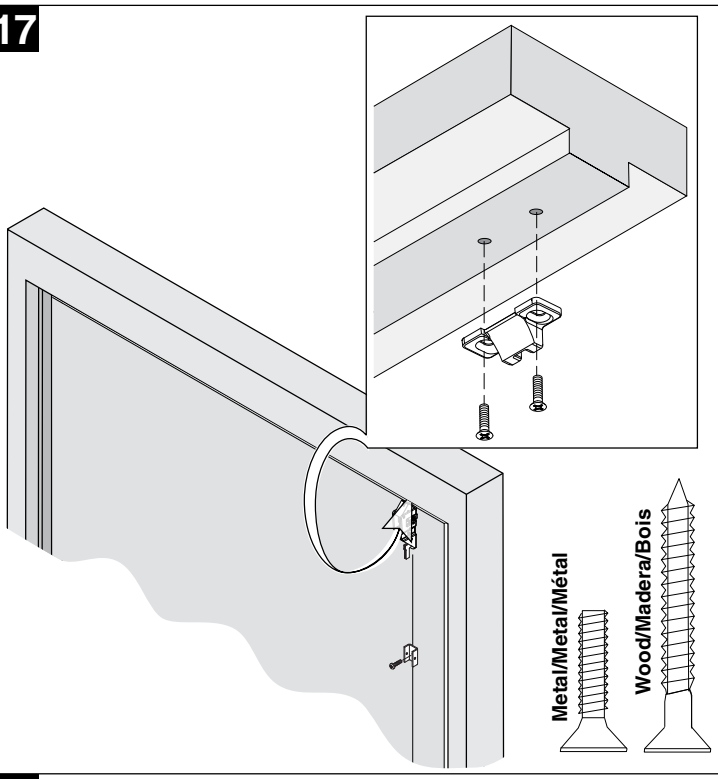

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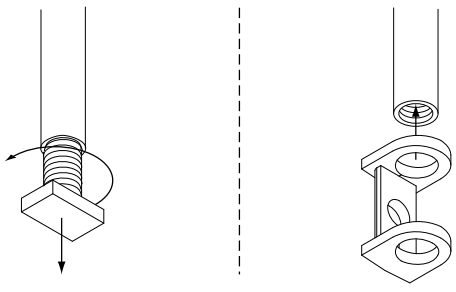
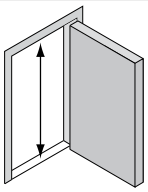
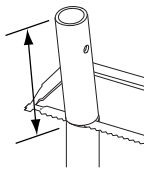
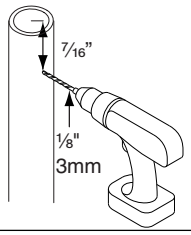


19 Prepare Top Rod Length
Preparar la Longitud de la Barra en la Parte Superior
Préparer la Longueur de la Tige Supérieure

Height Altura Hauteur	*Rod Cut Required *La barra Requiere Corte *Coupe de Tige Nécessaire	Extension Required Extensión que se Requiere Longueur Nécessaire
		
6' 8"	4"	–
7' 0"	–	–
7' 2"	10"	1'
7' 6"	6"	1'
7' 10"	2"	1'
8' 0"	–	1'
8' 6"	6"	2'
8' 10"	2"	2'
9' 0"	–	2'
9' 6"	6"	3'
9' 10"	2"	3'
10' 0"	–	3'

***Do not cut threaded end of top rod**
***No Cortar el Etremo Roscado de la Barra Superior**
***Ne pas Couper L'embout Fileté de la Tige Supérieure**

20 Drill New Hole, if Necessary
Perforar un Orificio Nuevo, si es Necesario
Percer un Nouvel Orifice si Nécessaire



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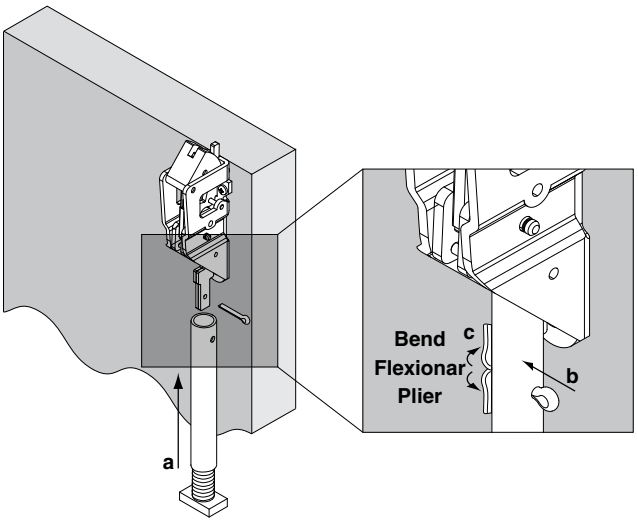

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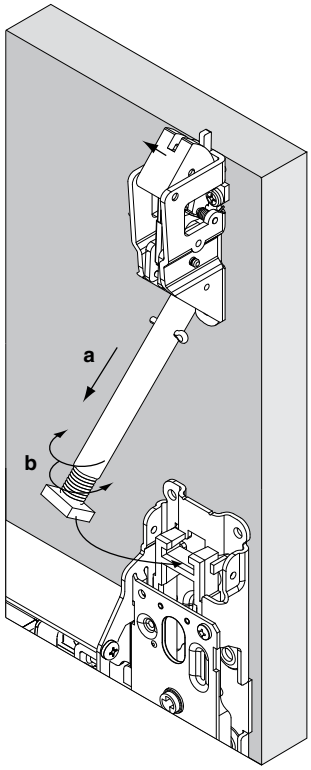
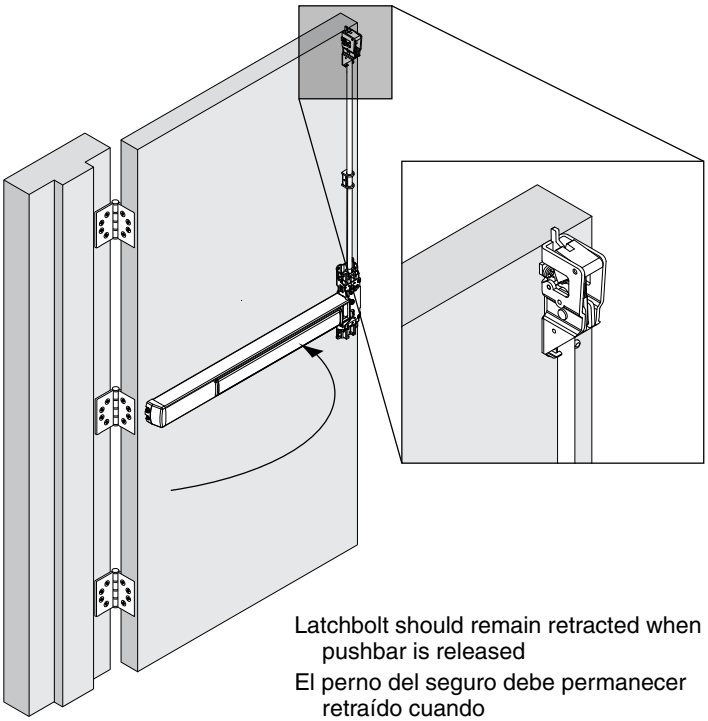


a — Until latch is fully extended
Extender completamente
Plein déploiement

b — Until adjustment screw fits into slot
Hasta que el tornillo gire en la ranura
Jusqu'à ce que la vis pénètre dans la fente

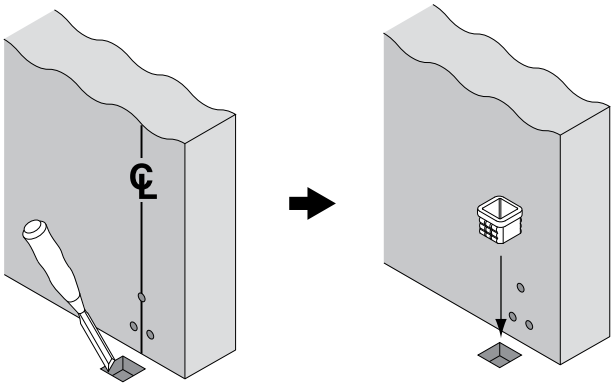
23 Test Top Latch Function
Prueba de la función del seguro en la parte superior
Vérifier le fonctionnement du verrou supérieur



Latchbolt should remain retracted when pushbar is released
El perno del seguro debe permanecer retraído cuando
Le pêne demi-tour doit demeurer rétracté lorsque

LBR → 30

24



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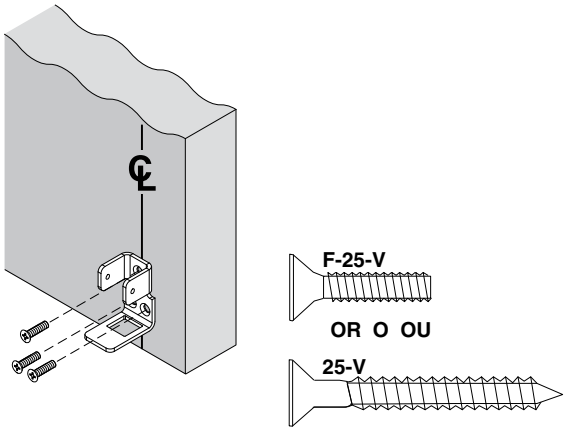
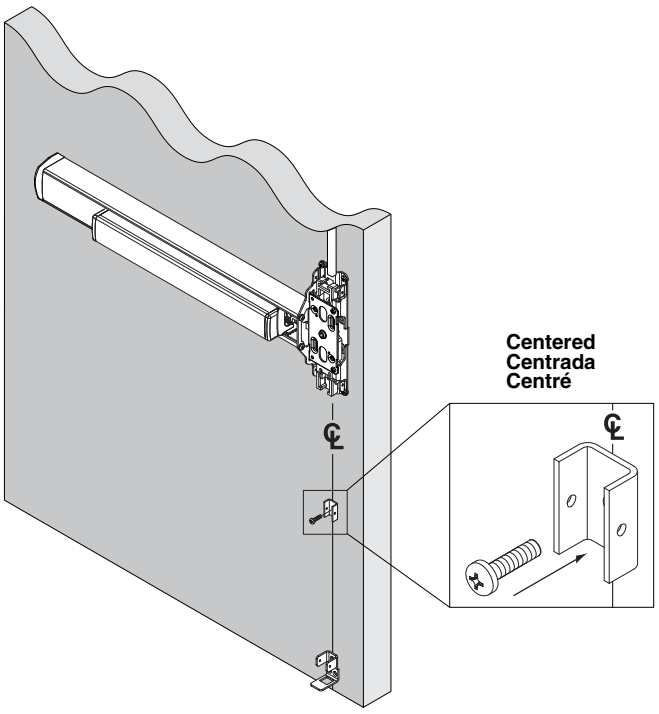


26

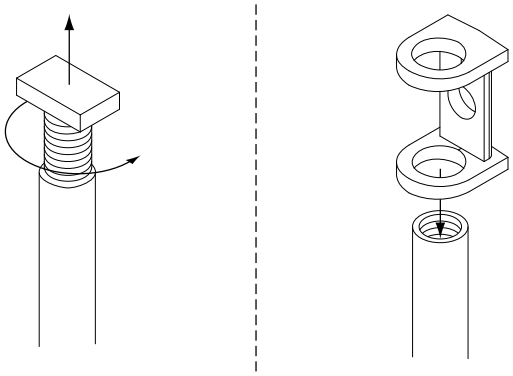


F-25-V	
#25	#10-24

OR O OU

25-V	
1/8" (3 mm)	1" (25 mm) deep/ produndidad/profundeur

27



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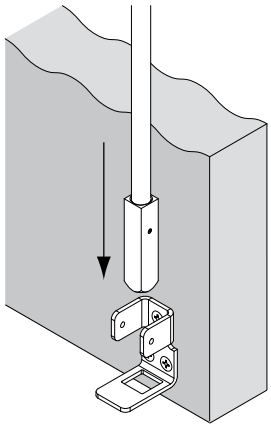

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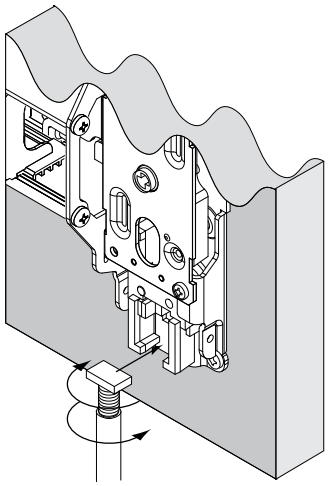
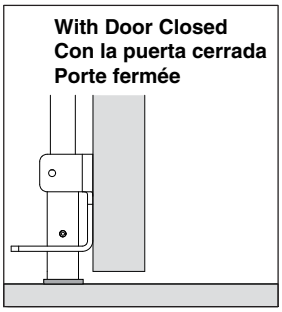
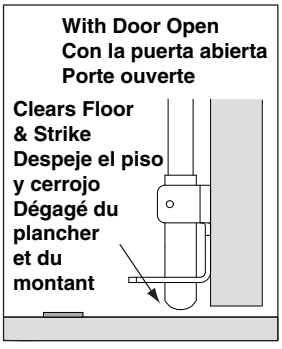
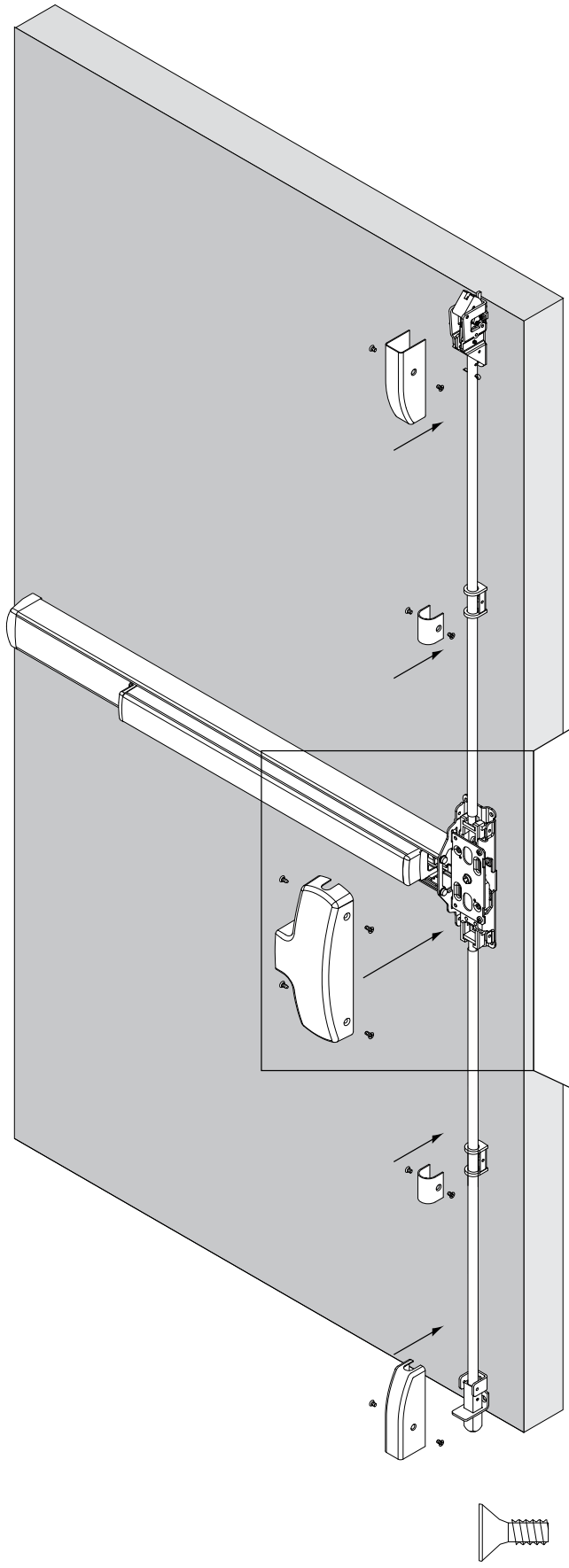
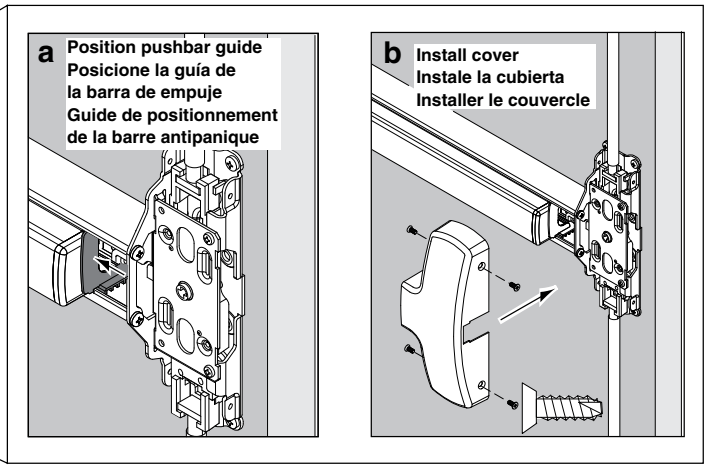









a
Position pushbar guide
Posicione la guía de
la barra de empuje
Guide de positionnement
de la barre antipanique
b
Install cover
Instale la cubierta
Installer le couvercle

Top Strike
Cerrojo en la parte superior
Gâche supérieure

1½" (38 mm)

5⁄16" (8 mm)

FOLD PLEGAR PLIER

Top Latch
Seguro en la parte superior
Verrou supérieur

℄

1¾" (44 mm)

A

9⁄16" (14 mm)

2½" (64 mm)

Bottom Bracket
Ménsula en la parte inferior
Support inférieur

1¹⁄16" (27 mm)

½" (13 mm)

B

1¼" (32 mm)

FOLD PLEGAR PLIER

Floor Cavity
Cavidad en el piso
Encoche de plancher

15⁄16" (24 mm)

9⁄32" (7 mm)

15⁄16" (24 mm) Deep Profundidad Profondeur

1⅛" (29 mm)

1⅜" (35 mm)

X 4

¼" (6 mm)

1³⁄16" (30 mm)

If installing LBR device, do not use template "B"

Si instala el dispositivo LBR, No utilice la plantilla "B"

Pour l'installation d'un dispositif LBR, ne pas utiliser le gabarit « B »

Sexbolt Preparation — Perno macho-hembra Preparación — Colonnette Préparation

If sexbolts are in box, install them at steps 6, 8, & 13 per preparation shown below

Si los pernos macho-hembra se encuentran en la caja, instálelos en los pasos 6, 8 y 13 conforme a la preparación como se muestra a continuación

Si les colonnettes sont dans la boîte, installez-les aux étapes 6, 8 et 13 selon la préparation illustrée ci-dessous

Metal/Metal/Métal

OR O OU

Wood/Madera/Bois

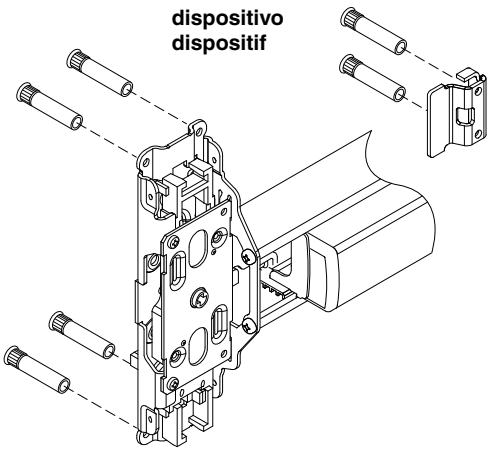
5⁄8" (16 mm)

¼" (6 mm) hole orificio orifice

13⁄32" (10 mm) hole orificio orifice

13⁄32" (10 mm) through completo par

Device
dispositivo
dispositif



Metal/Metal/Métal

OR O OU

Wood/Madera/Bois

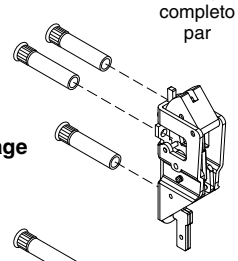
½" (13 mm)

¼" (6 mm) hole orificio orifice

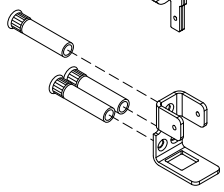
⅜" (10 mm) hole orificio orifice

⅜" (10 mm) through completo par

Top Latch
Seguro superior
Haut de verrouillage



Bottom Bracket
Eje de pedalier
Bas verrou



941367-00

MEL 24/25 Series

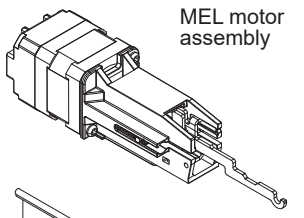
FALCON®

Motorized Electric Latch Retraction

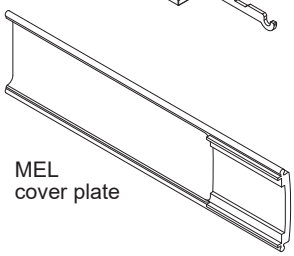
Installation Instructions

These instructions are for MEL conversion kits or MEL devices with preinstalled motors.

Parts

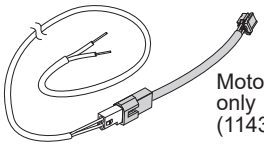


MEL motor assembly



MEL cover plate

Do not discard



Motor cable only (114320)

MEL 6' cable with motor cable (47269206)

MEL motor mounting 4-20 x ¼" FHP screws (qty 2)

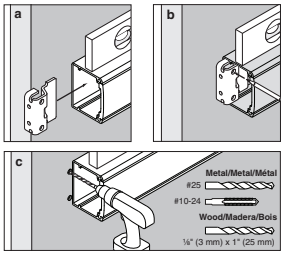
Allegion Connect accessories available to order

106198	MEL-CON adapter cable with 8-pin connector
040069	MEL motor cable + MEL-CON adapter cable with 8-pin connector

If MEL is preinstalled in the device:

A. Follow original device instruction up to the point where this end mounting bracket step has been completed.

Mark and Prepare 2 Holes

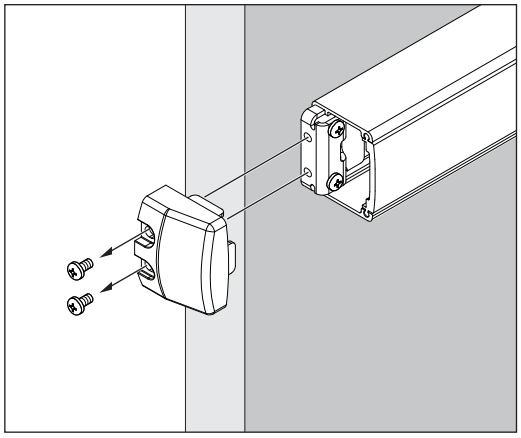


B. Complete MEL wiring per steps 15-21 of this instruction.

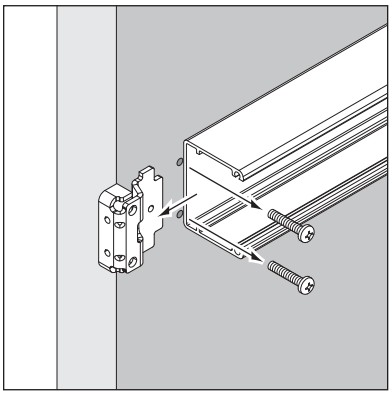
C. Return to original device instruction at point you left off, and complete installation.

If installing the MEL conversion kit, follow the instruction steps as written.

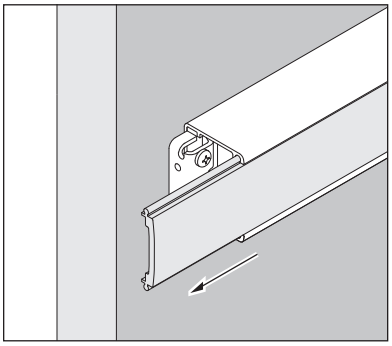
1 Remove end cap



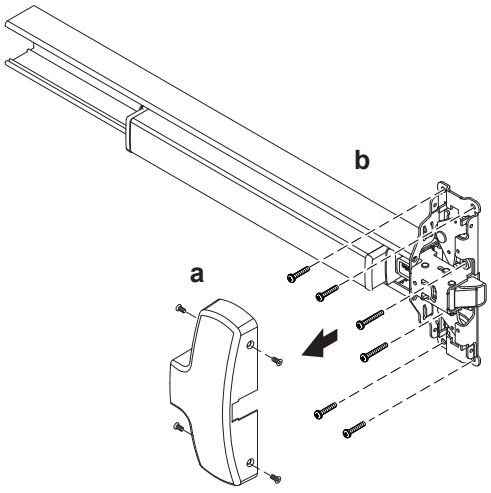
2 Remove device end mounting bracket from door



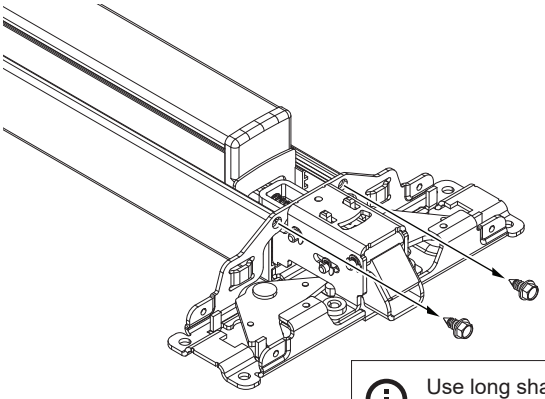
3 Slide back, remove and discard old cover plate



4 Remove center case cover and device from door



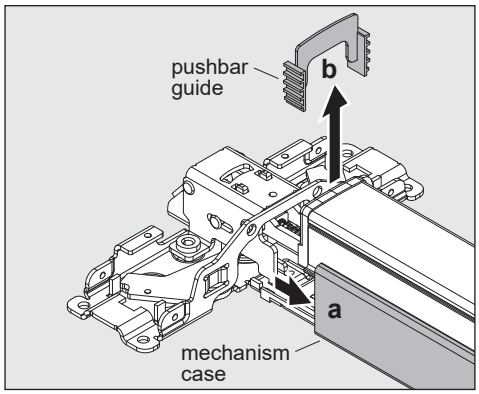
5 With device laying on a table or bench, remove the 2 screws that connect mechanism case to center case

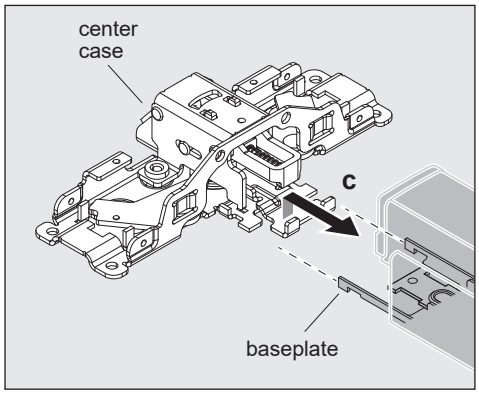


Use long shank screwdriver.

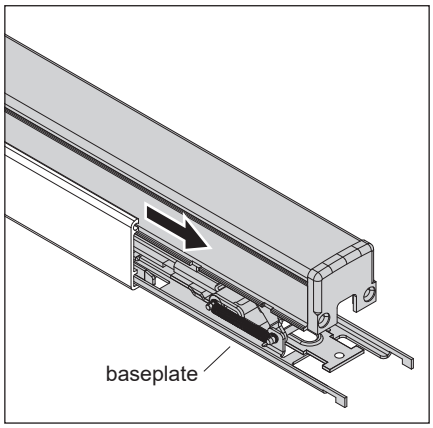
6 Unhook baseplate from center case

a. Slide back mechanism case about 2” to access hooking parts.
b. Push bar guides will come loose and will need to be reinstalled later.
c. Unhook baseplate from center case.

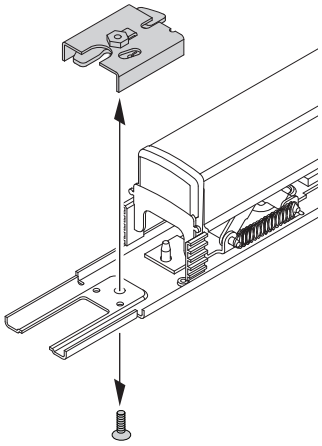




7 Slide baseplate out of mechanism case

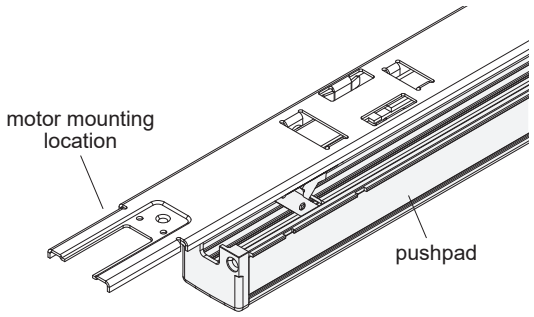


8 Remove any existing dogging assembly

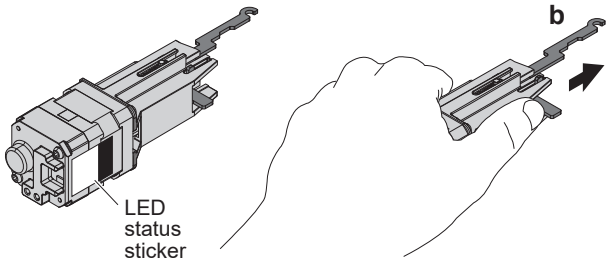


9 Secure motor assembly

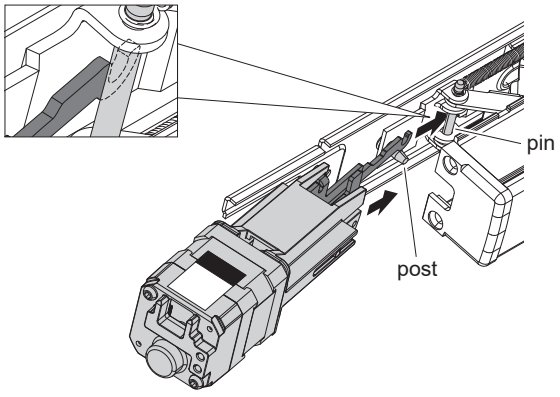
a. Turn baseplate assembly upside down so pushpad is resting on a flat surface and motor mounting location is on the left.

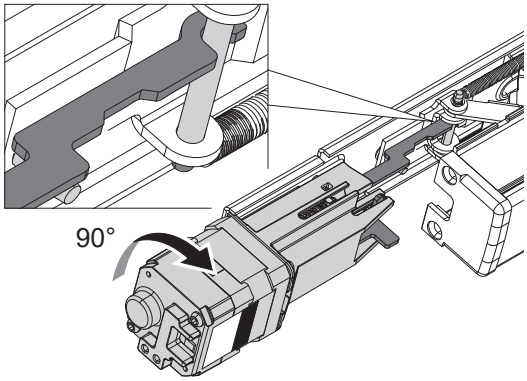


b. Place motor in left hand with LED status sticker facing toward you. Gently extend silver hook arm outward (about ½") until you meet some resistance, then hold.

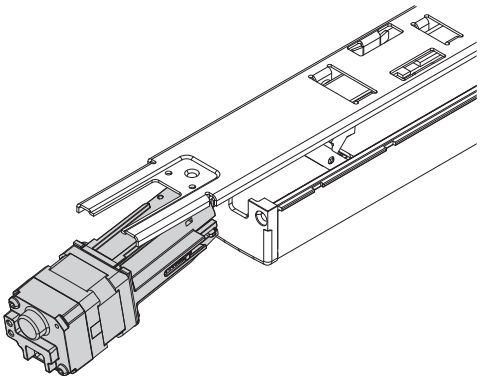


c. While tilting baseplate assembly away from you slightly, move extended hook arm into position under baseplate. A post will be hanging down from baseplate; the hook arm should sit on the near side of that post. Rotate the motor assembly to hook the arm over the baseplate axle pin that is closest to the baseplate. Do not pull out on motor at this step.



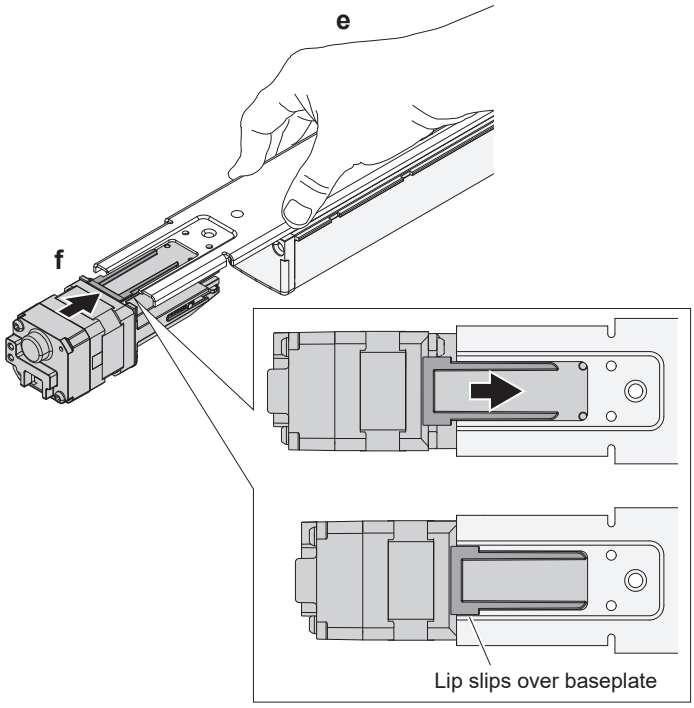


d. Set motor on flat surface.

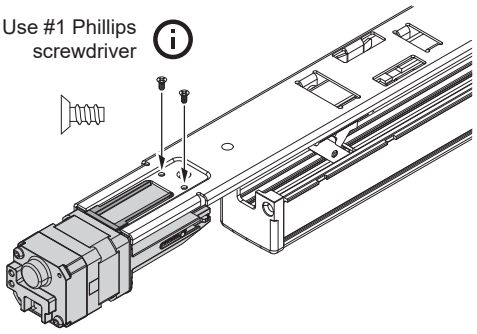


e. Push down firmly on baseplate so it bottoms out against push pad.

f. While depressing baseplate, lift up motor assembly and guide it along elongated baseplate slot until motor lip slips over baseplate.



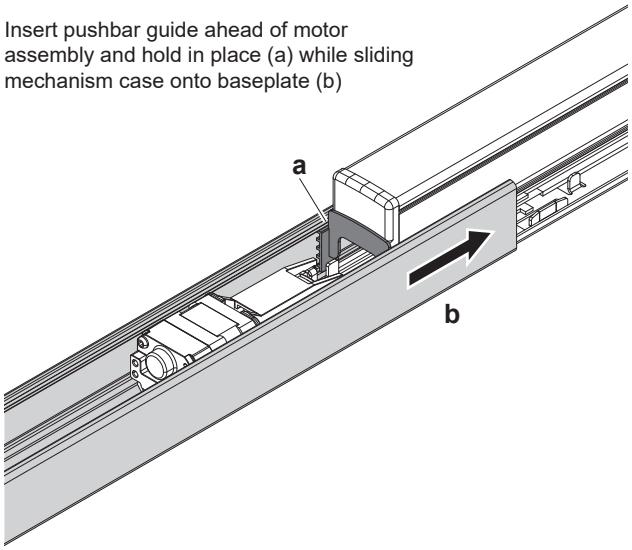
g. Release baseplate. Secure motor assembly with 2 small self-tapping screws (provided).



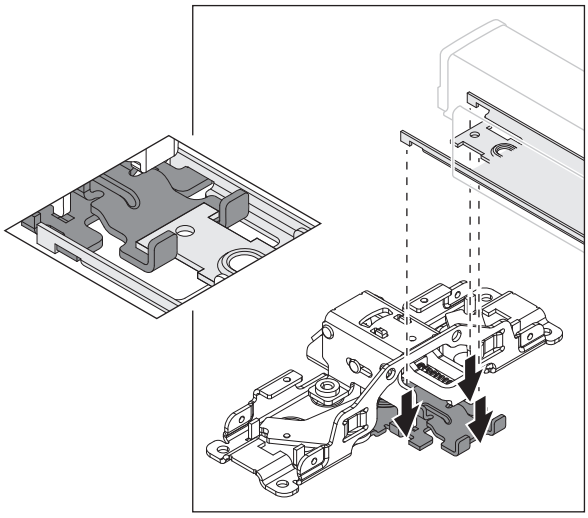
h. Turn baseplate and motor assembly right side up.

10 Slide mechanism case onto baseplate

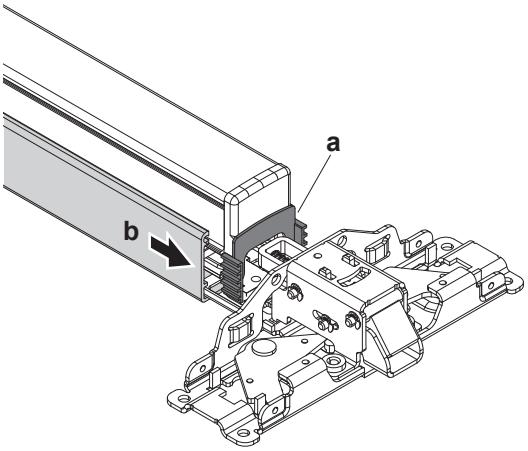
Insert pushbar guide ahead of motor assembly and hold in place (a) while sliding mechanism case onto baseplate (b)



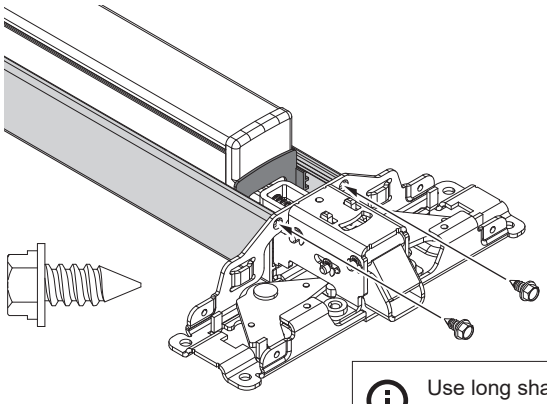
11 Reconnect center case to baseplate via hooking parts



12 Insert remaining pushbar guide (nearest the center case) and slide mechanism case against center case

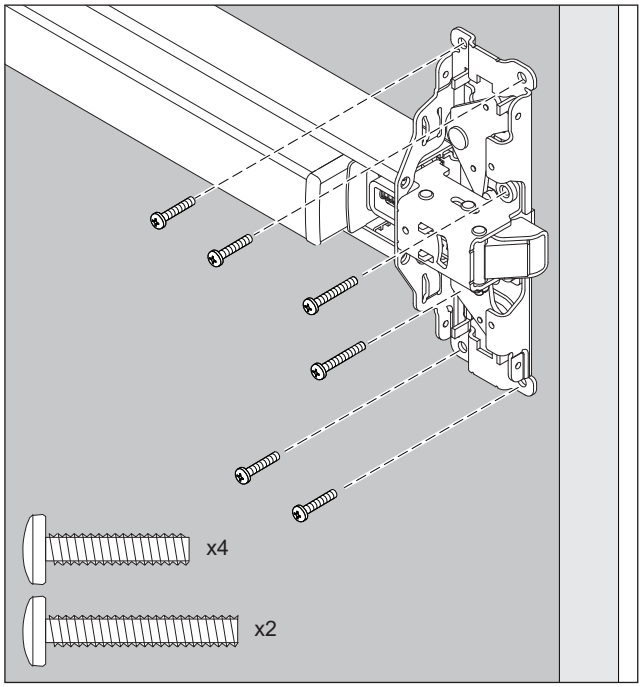


13 Reattach mechanism case to center case



Use long shank screwdriver.

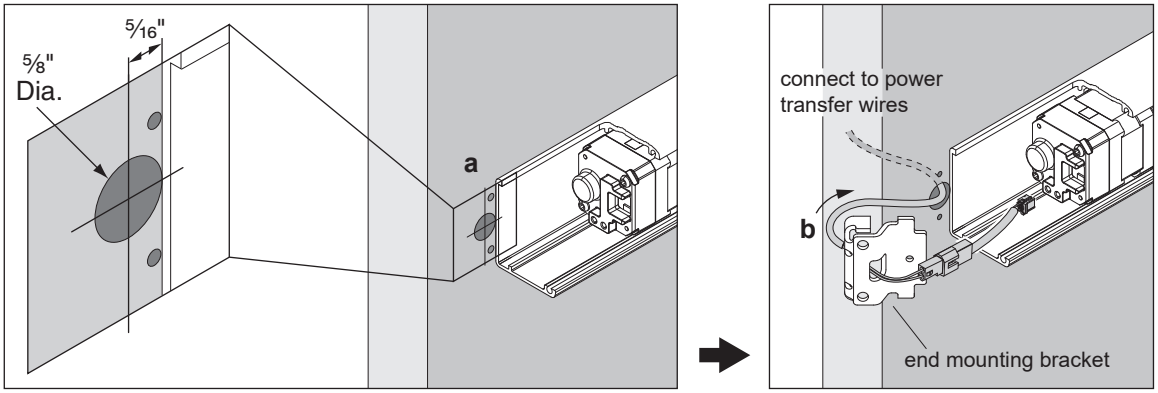
14 Reattach device to door

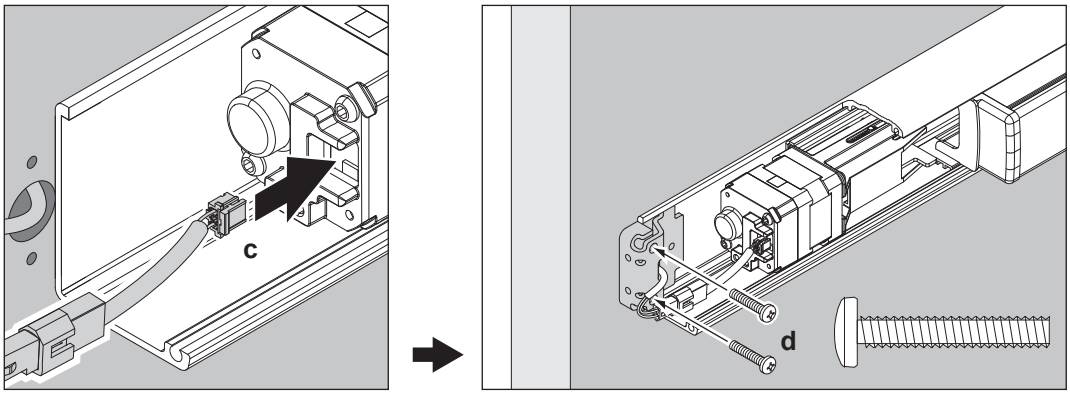


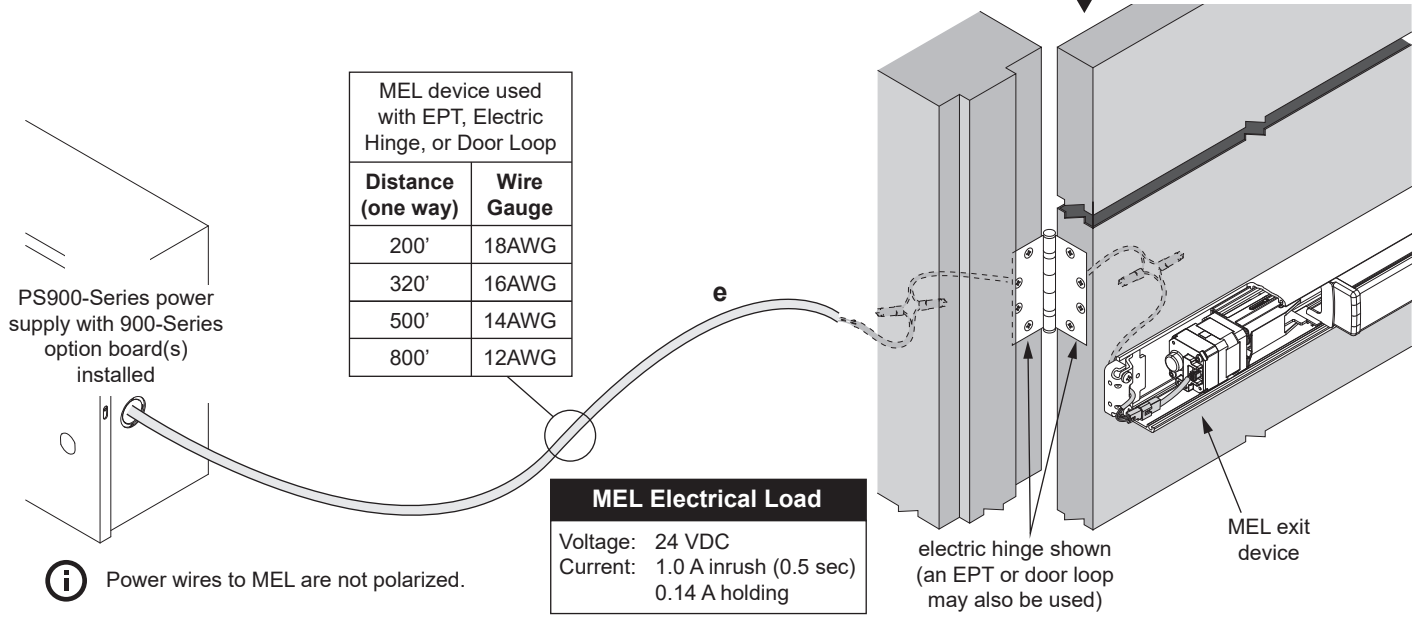
15 Complete wiring

If not wiring at this time, **DO NOT DISCARD CABLE!**
After installing device or conversion kit, if there is room, store the cable inside the mechanism case until the electrical wiring occurs. Otherwise, store the cable in a designated location.

a. Drill wire access hole.
b. Route furnished 6' MEL two-piece cable thru device end mounting bracket to connect MEL device to power transfer wires.
c. Plug cable connector into MEL motor.
d. Reinstall end mounting bracket.
e. Refer to table below to route proper gauge wires (from electric hinge, EPT, or door loop) to PS900-Series power supply.







MEL device used with EPT, Electric Hinge, or Door Loop	
Distance (one way)	**Wire Gauge**
200'	18AWG
320'	16AWG
500'	14AWG
800'	12AWG

MEL Electrical Load	
Voltage:	24 VDC
Current:	1.0 A inrush (0.5 sec)
	0.14 A holding

Power wires to MEL are not polarized.

WARNING

To avoid risk of electric shock, turn off AC power to power supply before installing or wiring option board.

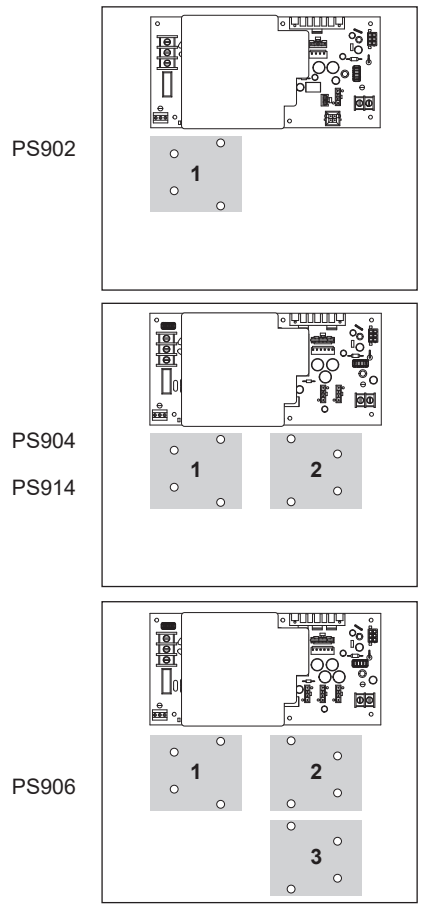
16 Confirm equipment compatibility

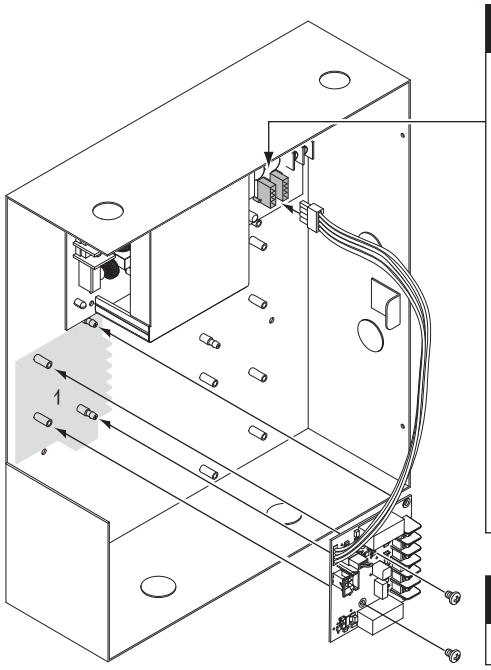
MEL is compatible with the following equipment (refer to individual instructions as needed):

- PS900-Series power supplies - PS902, PS904, PS906, PS914
- 900-Series option boards - 900-2RS, 900-4R, 900-4RL

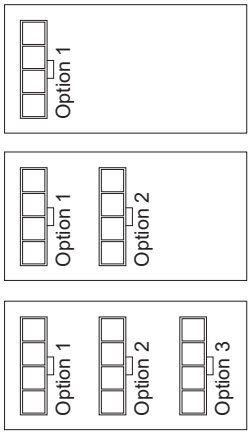
17 Install 900-2RS, 4R, or 4RL option board(s) into power supply

a **Review Available 900 series Option Board Mounting Locations (Gray)**





b **Plug Option Board Cable into any Available Option Connector**



c **Secure Board(s) with Screws**

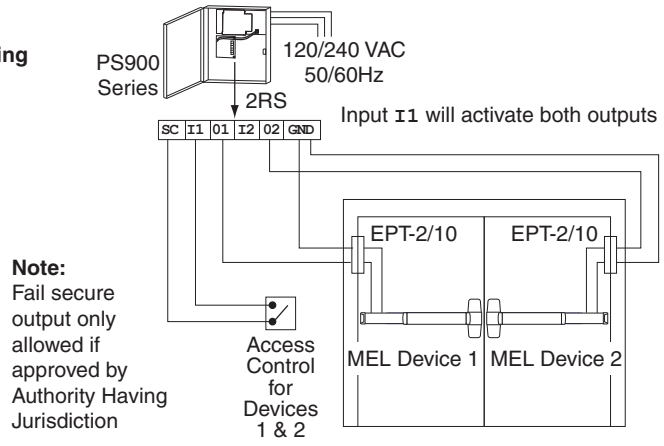
WARNING

Fire alarm (FA) option board required if MEL is installed in fire exit hardware.

Notes:
1. 24 VDC output setting required when MEL device connected.
2. If installing board in location 2 or 3, rotate board 180˚.
3. Latchbolt retraction of (2) sequenced MEL devices requires more than 1 second to complete.
4. When powering multiple components, verify that the amperage requirements of all components combined does not exceed the power supply output rating.

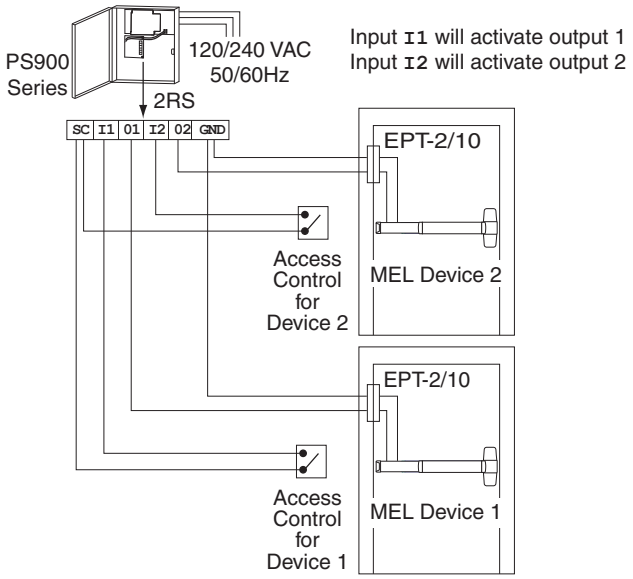
18 Connect input and output wires to option board (2RS shown)

Sequential Mode - Typical Wiring



Note:
Fail secure output only allowed if approved by Authority Having Jurisdiction

Individual Mode - Typical Wiring



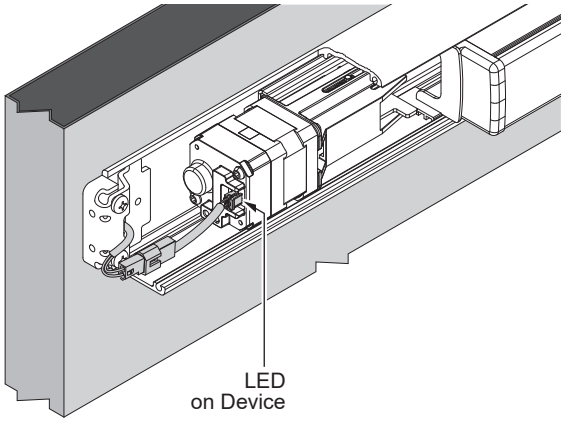
19 Check operation

a. Activate each input and verify all MEL devices operate properly.
b. If any device does not operate properly, see next page for troubleshooting.

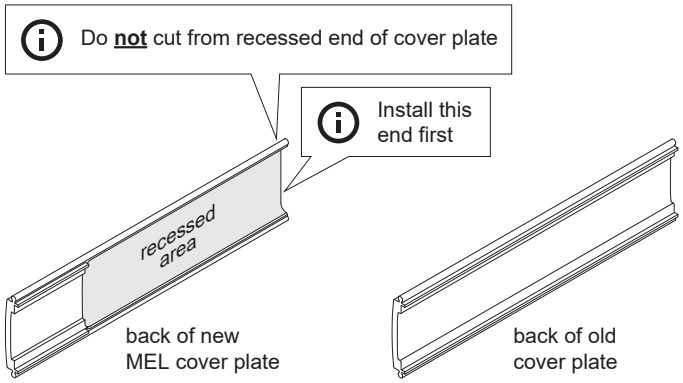
20 If necessary, troubleshoot operation (LED is only visible with the mechanism case removed)

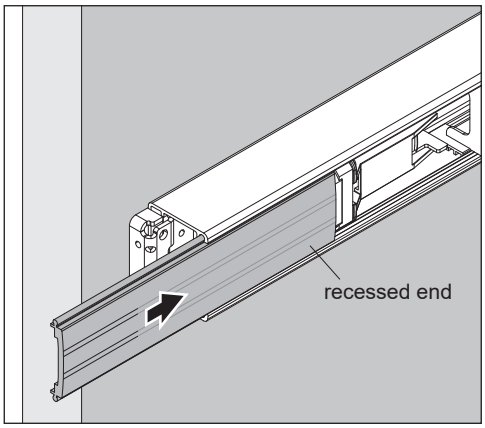
Power at the MEL	MEL Response	Condition/Solution
24 VDC	LED - solid green Latchbolt - retracted	**Operation normal, latch retracted immediately**
	LED - solid red after latchbolt attempts to retract multiple times	**Latchbolt cannot fully retract mechanically** Remove power. Depress pushbar and make sure latchbolt retracts and extends fully. If necessary, disconnect any vertical rods or mortise lock from device center case, and reapply power. If motor holds, mechanical adjustments may be required per the device instructions.*
	LED - flashing green/red Latchbolt - not retracted	**Excessive tamper (while power applied, the pushpad was pulled out at least 3 times)** Wait 15 seconds and latchbolt will retract again OR remove and reapply power to clear condition.
24 VDC low	LED - flashing green Latchbolt - retracted	**Voltage low during latchbolt retraction (latchbolt retracts at reduced force)** Wire length is too long, wire gauge is too small, or power supply has poor regulation.
29 VDC or greater	LED- flashing red Latchbolt - will not retract	**Input voltage is too high for proper operation** Wrong power supply, power supply defective.
13 VDC or lower		**Input voltage is too low for proper operation** Wrong power supply, power supply defective or not set to the proper output voltage. To set, remove AC power from power supply, change power supply setting from 12 to 24 VDC, then reapply AC power and verify proper operation.
0 VDC	LED - off Latchbolt - not retracted	**No input voltage** Problem with the power supply, control switch, or wiring.

**For information about adjusting exit devices, you can find their installation instructions in the support area at www.allegion.com/us or call Technical Services at 1-877-671-7011*

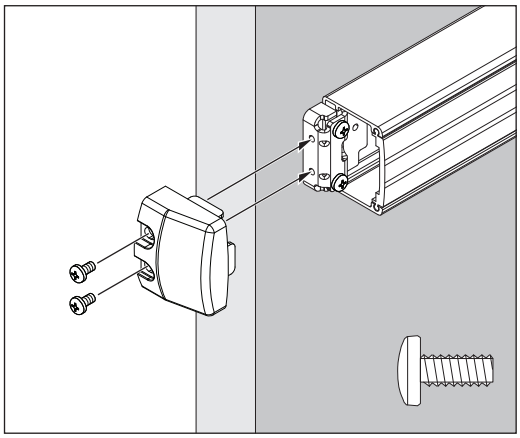


21 Install MEL cover plate

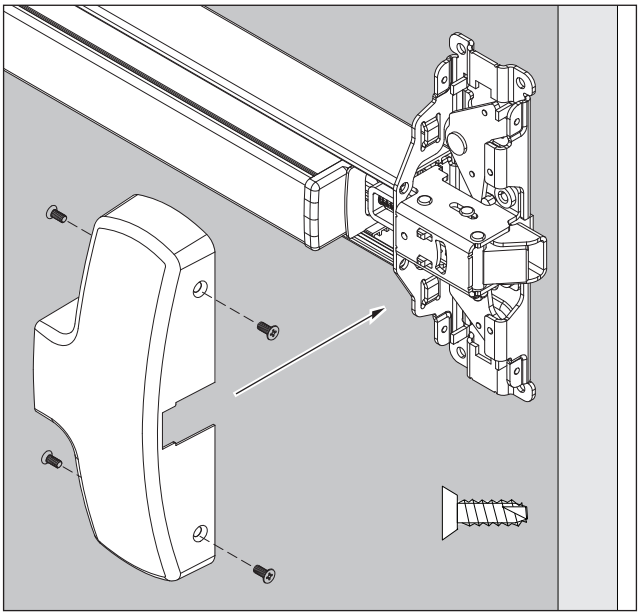




22 Reinstall end cap



23 Reinstall center case cover



Warnings and Cautions

Warnings look like this:

WARNING

Warnings indicate potentially hazardous conditions, which if not avoided or corrected, may cause death or serious injury.

Cautions look like this:

CAUTION

Cautions indicate potentially hazardous conditions, which if not avoided or corrected, may cause minor or moderate injury. Cautions may also warn against unsafe practices.

Notices look like this:

Notices indicate a condition that may cause equipment or property damage only.

Directions look like this:

Directions identify a step that may or may not apply to your product configuration. It also may direct you to another part of the instruction.

ALLEGION

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1-877-671-7011	www.allegion.com/us	

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