

23970734

98/9949 CS 98/9949

### **VON DUPRIN**

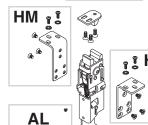
Installation Instructions

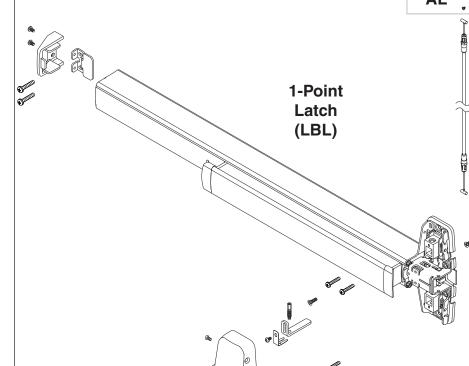
## **FOR DEVICES SOLD PRIOR TO 8-10-16**

This instruction covers new installation of the 98/9949 concealed vertical device for hollow metal and aluminum doors.

Also covered is the CS 98/9949 retrofit cabling system for converting 98/9947 Series to 98/9949 Series (compatible with models 98/9947, 98/9947-F, 98/9947-LBR, and 98/9947-F-LBR).







2-Point
Latch
includes these
additional
parts

HM = for Hollow Metal Door applicationsAL = for Aluminum Door applications

**RF** = for Hollow Metal Door Retrofit applications

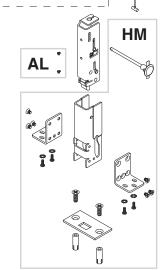
#### **Customer Service**

1-877-671-7011

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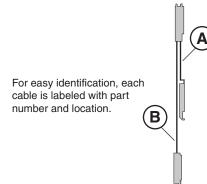
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### Identify Cables and Locations.

(if not preinstalled in door)

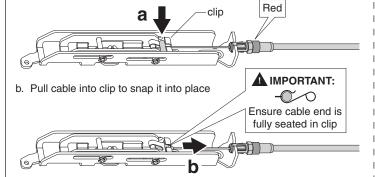
NOTE: For retrofit installations, begin at Step 5.



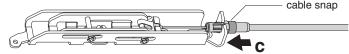
CABLE IDENTIFICATION (STANDARD SIZES)				
	HOLLOW METAL AND WIDE STILE ALUMINUM DOORS		NARROW STILE ALUMINUM DOORS	
Door Opening Height	A Top Cable (Red)	<b>B</b> Bottom Cable (White)	A Top Cable (Red)	<b>B</b> Bottom Cable (White)
6' 8"	23925795	23926207	23925803	23926215
7' 0"	23925761	23926173	23925761	23926173
8' 0"	23925647	23926058	23925647	23926058
9' 0"	23925522	23925936	23925522	23925936
10' 0"	23925407	23925811	23925407	23925811

### 2 Install Cable(s).

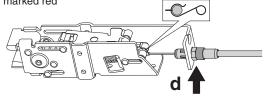
a. Position red cable end to clip on center slide



c. Push cable snap against center slide to secure cable

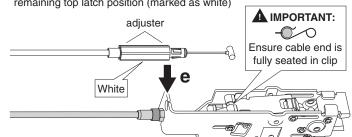


d. In the same way, install opposite end of red cable to top latch in the position marked red

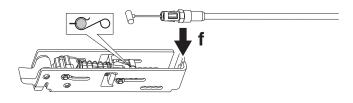


### For 2-Point Latch Only

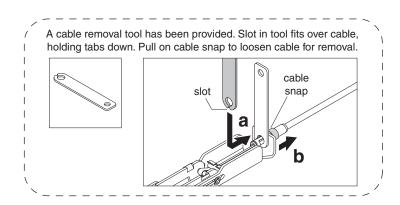
e. There is an adjuster on one end of the white cable. Install this end to the remaining top latch position (marked as white)



f. Install opposite end of white cable to bottom latch



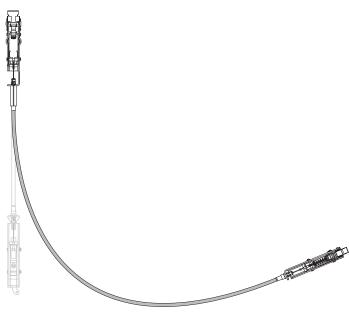
### **CABLE REMOVAL**



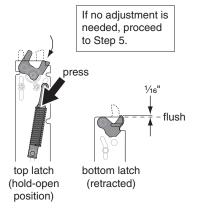
## Determine if Bottom Latch Retraction Adjustment is Necessary.

#### For 2-Point Latch Only

 Flex the cable into an L-shape as shown to simulate the installed condition of the latches.



b. To determine whether an adjustment is required, actuate the top latch to the hold-open position by pressing down on the connecting rod. Bottom latch should retract to within 1/16" of flush. If it does not, an adjustment is necessary.



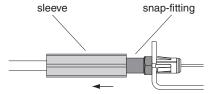
# Adjust Bottom Latch Retraction (if necessary). For 2-Point Latch Only

NOTE: Adjustment must be made while the top latch is in the hold-open position, with cable flexed into an L-shape to simulate the installed condition of the latches.

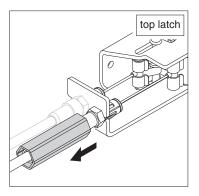


These (2) hex components are used to make the adjustment.

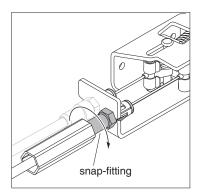
4



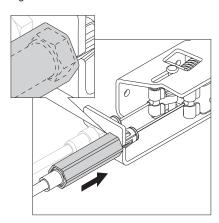
a. Pull back and hold the spring-loaded sleeve.



b. While holding the sleeve in place, rotate the barrel of the snap-fitting clockwise by hand until the bottom latch is retracted to within 1/16" of flush



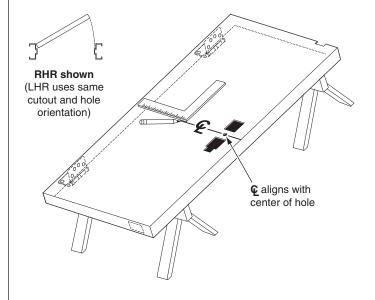
 Slowly release the sleeve, confirming it has seated over the hex end of the snap-fitting.



## 5 If Retrofit Installation

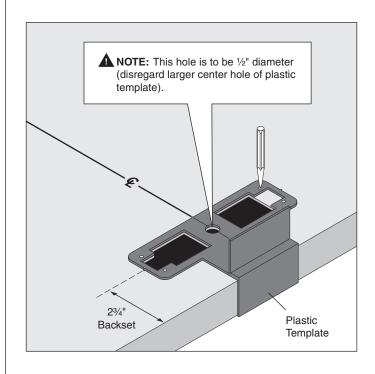
- a. Remove device from existing door.
- b. Remove existing door.
- c. Remove and discard existing strikes.

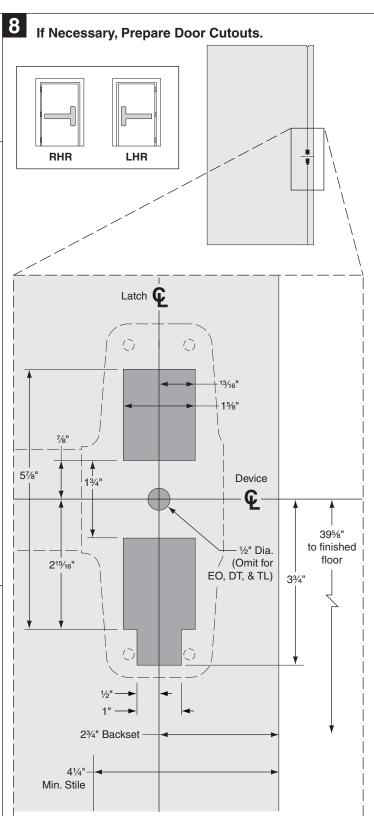
# With Door Laying Flat, Draw Horizontal Device Center Line (©).



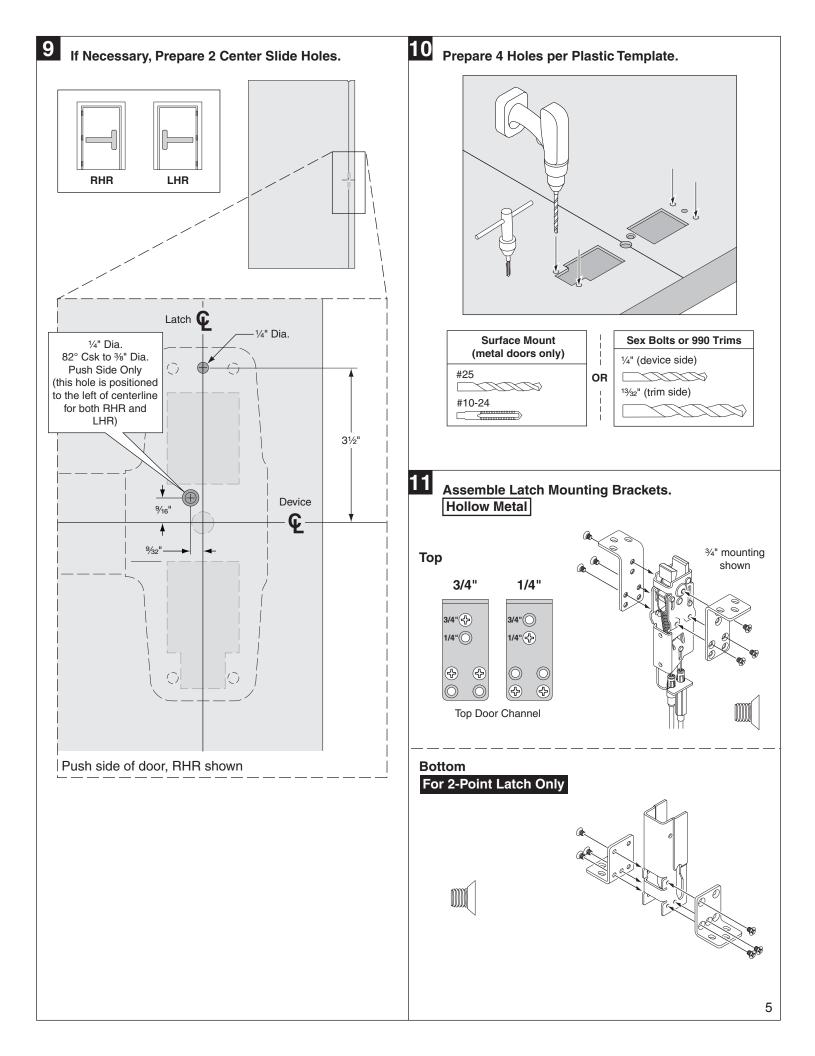
NOTE: Centerline is predetermined by cutout. If no cutout exists, refer to Step 8 to determine centerline.

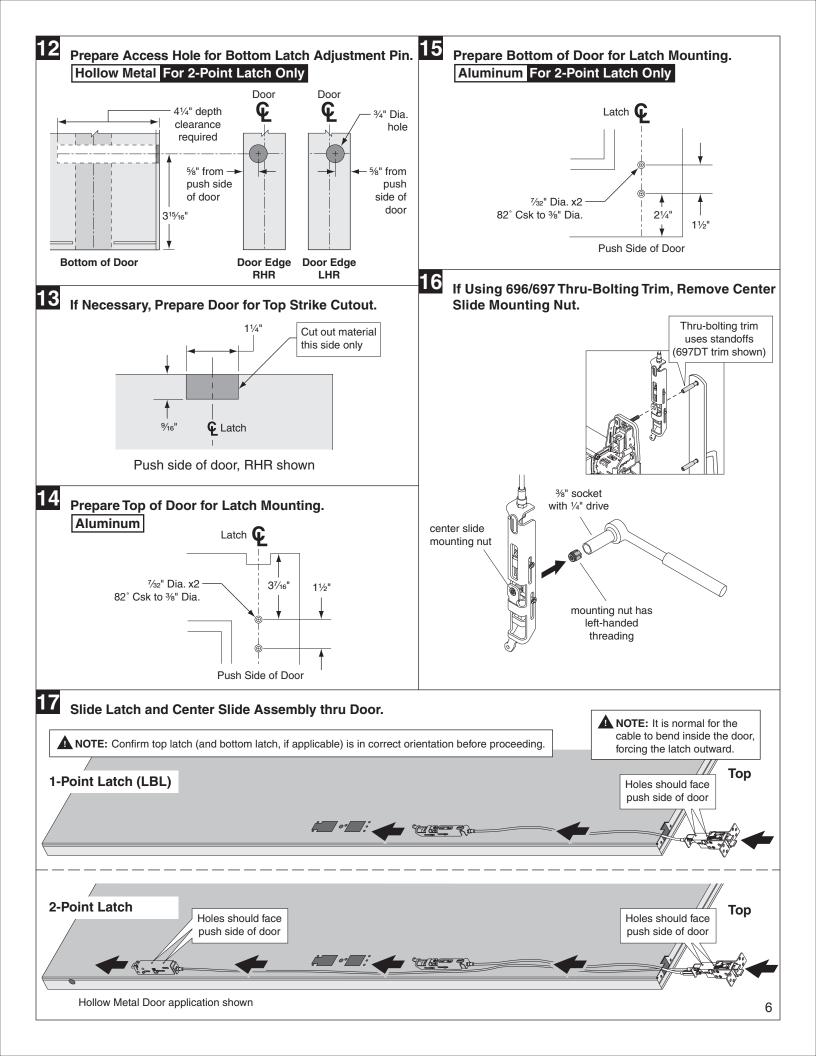
## Align Plastic Template and Mark Door.





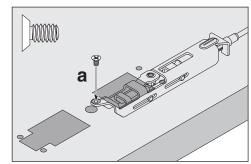
Push side of door, RHR shown



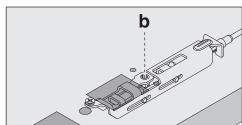


### 18 Secure Center Slide to Door.

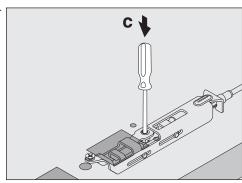
Secure center slide to door by lightly tightening lower screw



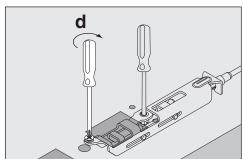
Align upper hole visually



Insert small screwdriver into upper hole to prevent center slide from rotating

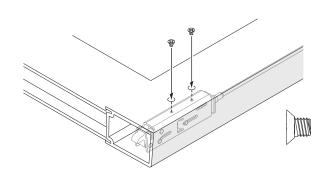


Fully tighten lower screw

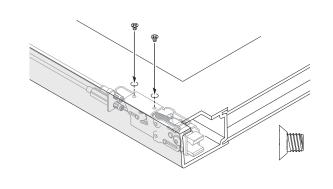


Align Bottom Latch and Install Mounting Screws.

Aluminum For 2-Point Latch Only

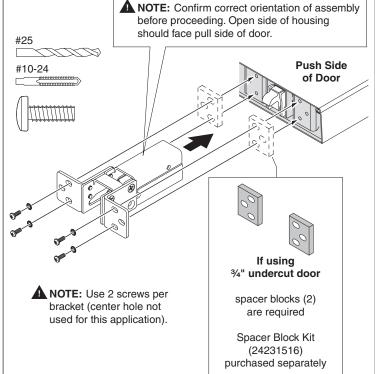


Secure Top Latch with 2 Screws.
Aluminum



Install Bottom Latch Mounting Bracket Assembly.

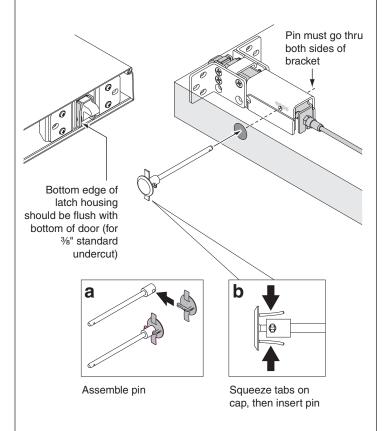
Hollow Metal For 2-Point Latch Only



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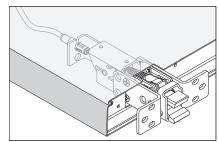
### Insert Latch Adjustment Pin to Hold Bottom Latch If Necessary, Remove NL Drive Screw. in Place.

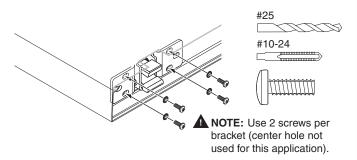
#### **Hollow Metal For 2-Point Latch Only**



### Secure Top Latch Mounting Bracket. **Hollow Metal**

**NOTE:** It is normal for the cable to bend inside the door, forcing the latch outward as shown here.

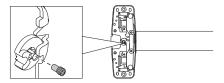




### Hang Door on Frame.

**A CAUTION:** For 2-point latches, bottom latch cannot be in locked position while hanging door on frame. Latch must be retracted.

#### **NL** drive screw Factory installed on back of center case



With the NL drive screw removed, key locks and unlocks lever, knob, or thumb piece. For the trims listed below, **REMOVE** NL drive screw.

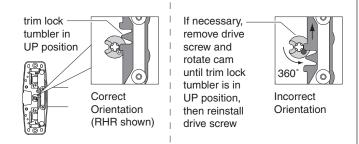
> 696TP 996L 990TP 996K 697TP

With the NL drive screw installed, key retracts latch bolt. DO NOT remove NL drive screw for the following applications:

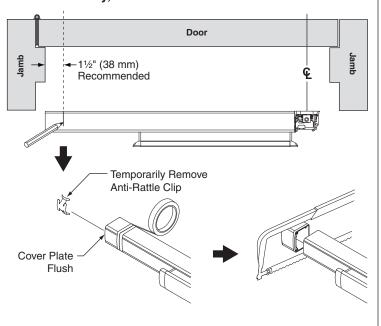
> NL, EO, DT trims and 98/99-2 double cylinder devices (i.e. TP-2, L-2, and K-2).

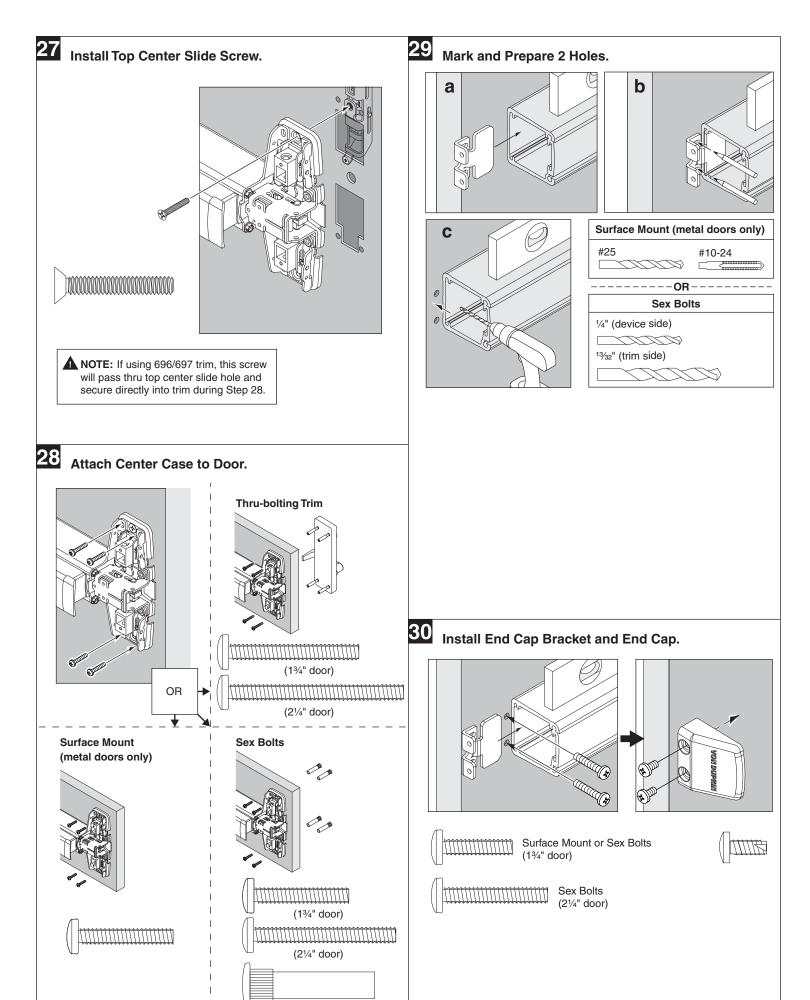
\*996L-BE \*E996L \*696TP-BE \*990TP-BE \*996K-BE \*E996L-BE \*697TP-BE

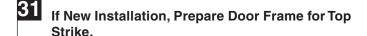
If the trim being installed is "BE" (i.e. 996L-BE), the trim lock tumbler on the back of the device must be in the UP position before device is installed. This allows the trim to be unlocked at all times.

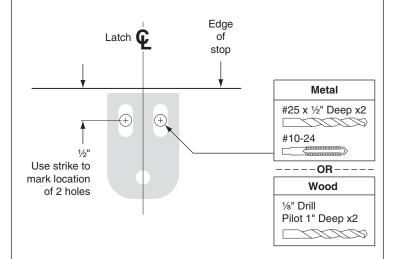


### If Necessary, Cut Device.

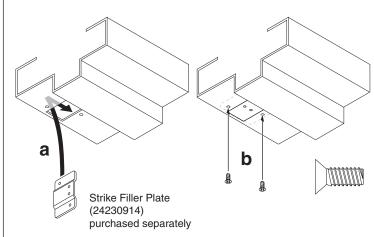




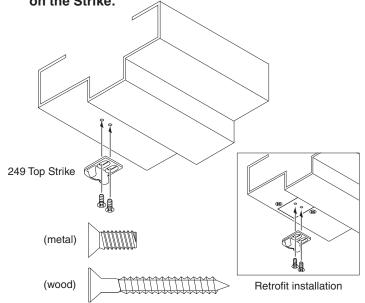




If Retrofit Installation, Install Steel Cover Plate to Cover Existing 338 Strike Opening in Accordance with the Frame Manufacturer's Fire Listing.



Install 2 Top Strike Screws Using the Slot Features on the Strike.

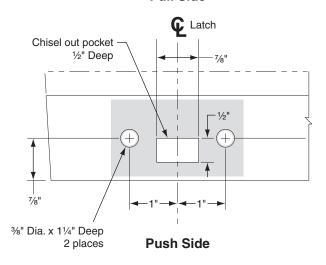


Prepare Floor for Bottom Strike.

Hollow Metal For 2-Point Latch Only

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**Pull Side** 

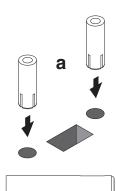


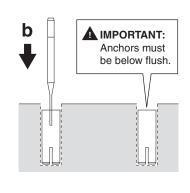
Install Bottom Strike.

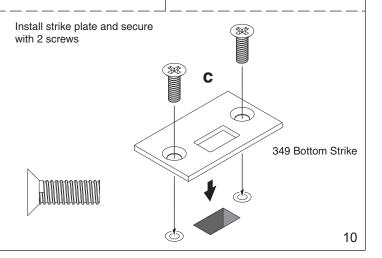
**Hollow Metal** For 2-Point Latch Only

Clear holes of debris, then drop in anchors (slotted end first)

Secure the anchors using a hammer and punch



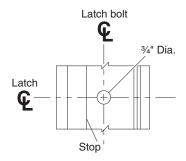




#### Prepare Threshold.

#### **Aluminum For 2-Point Latch Only**

- a. After closing door with bottom latch installed, mark the location the bottom latch bolt is contacting the threshold.
- b. Drill a 3/4" diameter hole in the threshold.

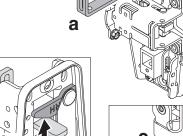


# Install Lift Finger and Retainer Clip.

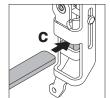
**NOTE:** The lift finger installation and adjustment must be performed while the latches are in the extended (latched) position.

Slide L-shaped lift finger thru block in device center case and then into center slide

### For 2-Point Latch Only Push cable to the side so it does not interfere with lift finger.

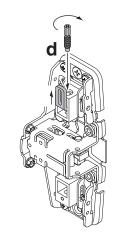


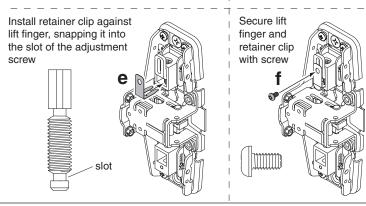
Lift finger must pass below locking tumbler (back of center case shown for clarity)



Lift finger must insert into center slide here

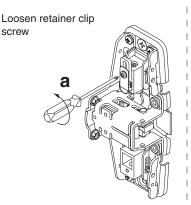
Insert adjustment screw and rotate with screwdriver to raise lift finger until it is snug against block



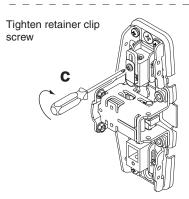


### Adjust Lift Finger.

A NOTE: Lift finger adjustment must be performed while the latches are in the extended (latched) position.



Loosen adjustment screw until the lift finger drops and you feel contact with the center slide



### **Perform Functional Test of Door.**

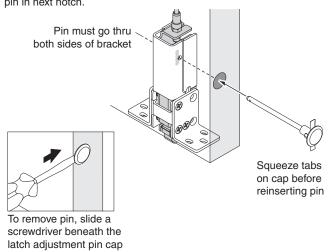
- a. Depress pushbar. Door should begin to open when pushbar is nearly fully depressed. If necessary, refer to Step 38 to readjust lift finger.
- b. With door closed, top latch should be secure.

### For 2-Point Latch Only

- c. With door closed, bottom latch should be secure.
- d. Confirm that bottom latch does not drag against floor when door is

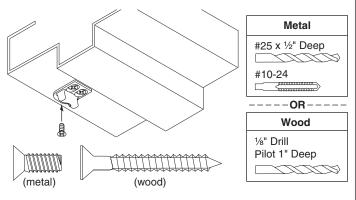
#### **Hollow Metal For 2-Point Latch Only**

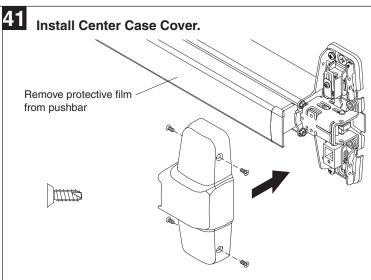
If this occurs, remove latch adjustment pin and raise latch, then reinsert pin in next notch.



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Adjust Top Strike as Necessary, then Install the Third Strike Screw to Fix the Strike Position.





## **OPTIONAL EQUIPMENT**

## **CD (CYLINDER DOGGING)**

- $1. \quad \text{Remove mortise cylinder cam and reinstall in reverse (Figure 1)}.$
- 2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).
- 3. Remove key to slide cover plate in position in the mechanism case.

#### **CD** function conversion

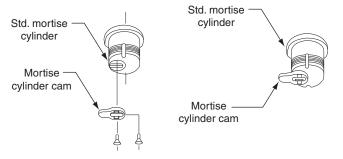


Figure 1

#### **Dogging procedure**

