

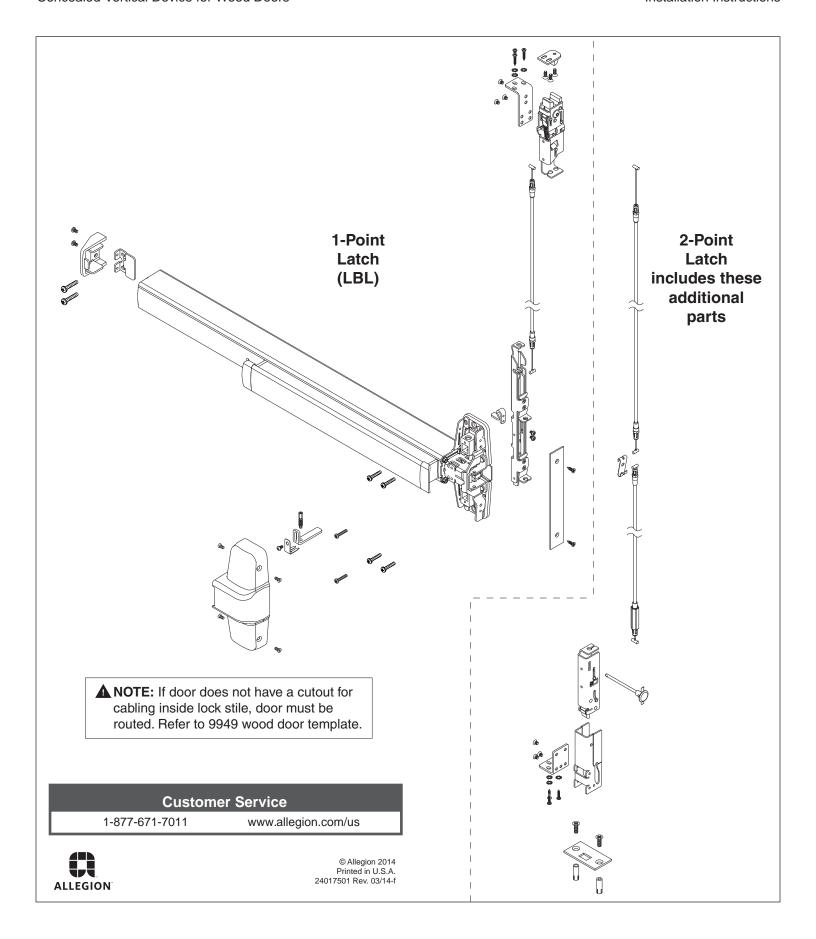
98/9949WDC

VON DUPRIN_®

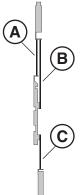
24017501

Concealed Vertical Device for Wood Doors

Installation Instructions



Identify Cables and Locations.



CABLE IDENTIFICATION (STANDARD SIZES) WOOD DOORS			
Door Opening Height	Α	В	С
6' 8"	24078495	23925761	24078453
7' 0"	23925787	23925720	24078453
8' 0"	23925662	23925605	24078453
9' 0"	23925548	23925480	24078453
10' 0"	23925423	24009334	24078453

NOTE: Cables **A** and **B** are red. Cable **C** is white

A NOTE: Cables **B** is 6" longer than Cable **A**.

24492399

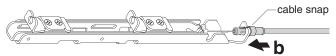
NOTE: 98/9949WDC 2-point latch with threshold requires cable 24492399 (sold separately) for Cable C.

2 Install Top Latch Cable Assembly.

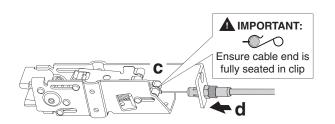
a. Using **Cable A**, position cable end to clip on center slide, and snap it into place



b. Push cable snap against center slide to secure cable

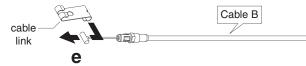


- c. Position opposite end of **Cable A** to the top latch in the position marked red. Pull cable into clip to snap it into place.
- d. Push cable snap against latch to secure cable

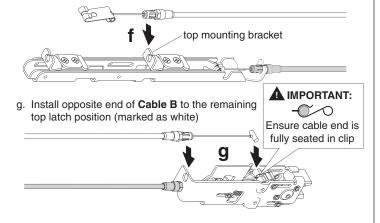


For 2-Point Latch Only

e. Snap cable link onto one end of Cable B

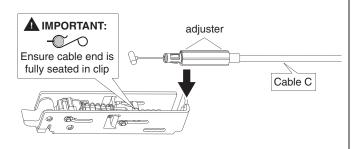


f. Install Cable B to the top mounting bracket

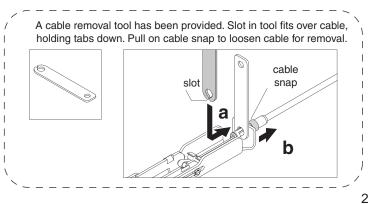


Install Bottom Latch Cable Assembly. For 2-Point Latch Only

One end of ${\bf Cable}\;{\bf C}$ has an adjuster. Install this end to the bottom latch.

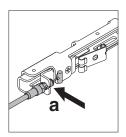


CARLE REMOVAL

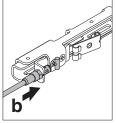


Temporarily Attach Bottom Latch Cable Assembly to Center Slide.

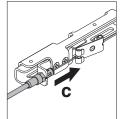
For 2-Point Latch Only



Position Cable C to bottom mounting bracket on center slide



Push cable snap against mounting bracket to secure cable

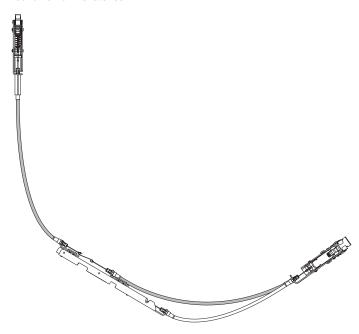


Pull on cable end to attach it to the cable

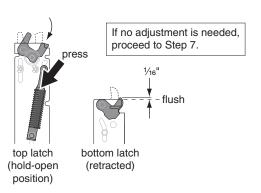
Determine if Bottom Latch Retraction Adjustment is Necessary.

For 2-Point Latch Only

a. 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.



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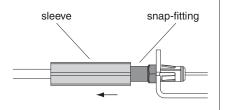
Adjust Bottom Latch Retraction (if necessary). For 2-Point Latch Only



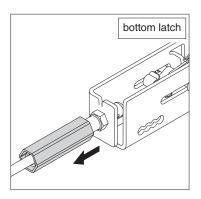
NOTE: Adjustment must be made while the top latch is in the hold-open position, with cable flexed into an L-shape to simulate the installed condition of the latches.



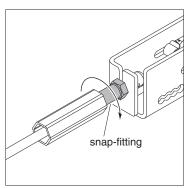
These (2) hex components are used to make the adjustment.



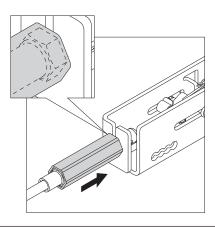
a. Pull back and hold the spring-loaded sleeve.



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.

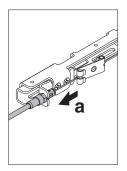


c. Slowly release the sleeve, confirming it has seated over the hex end of the snap-fitting.

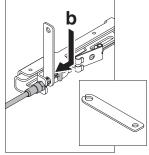


Disconnect Bottom Latch Cable Assembly from Center Slide.

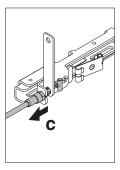
For 2-Point Latch Only



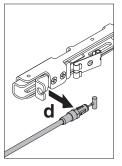
Disconnect cable end from cable link



A cable removal tool has been provided. Slot in tool fits over cable, holding tabs down

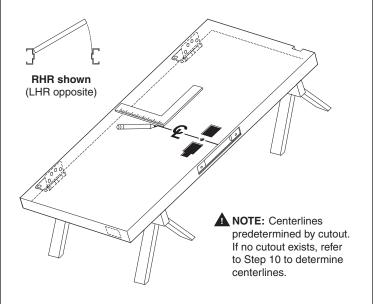


Pull on cable snap to loosen cable for removal

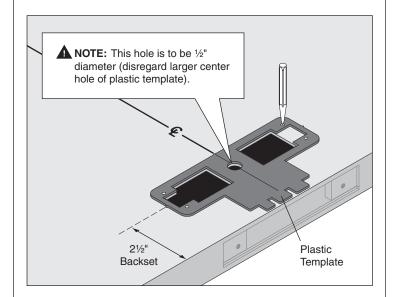


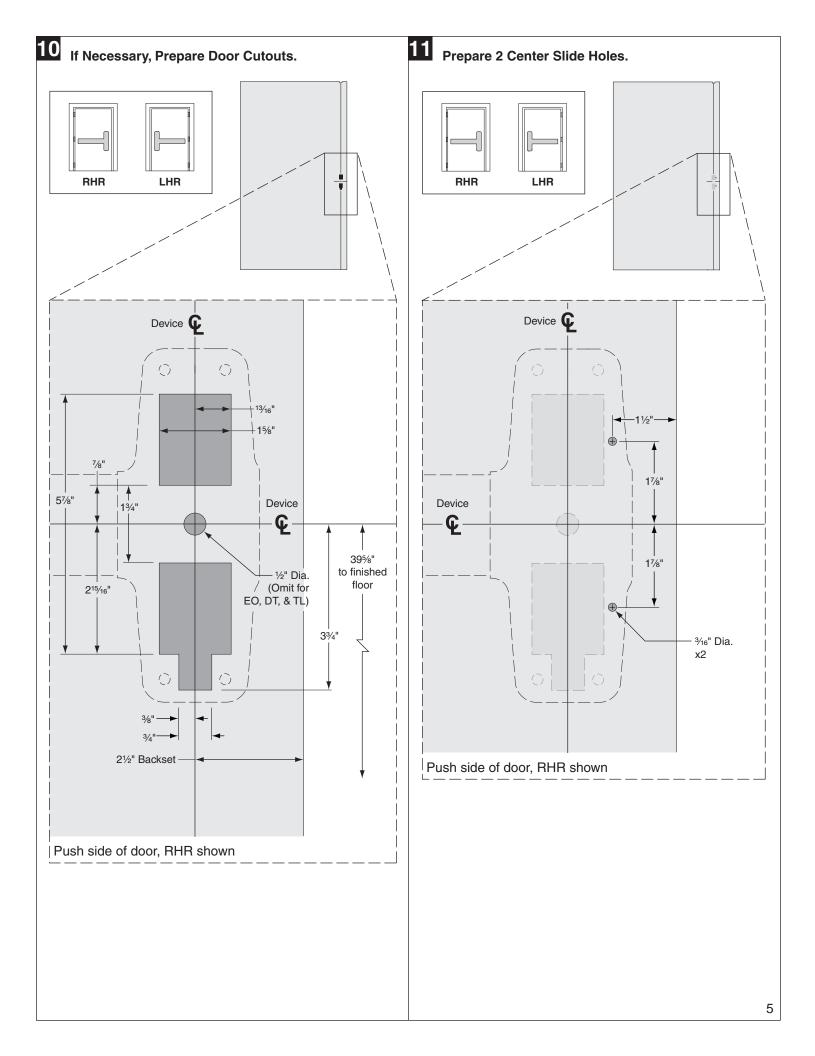
Remove bottom latch cable assembly from center slide.

With Door Laying Flat, Draw Horizontal and Vertical Device Center Lines (Ç).

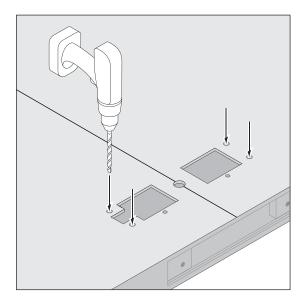


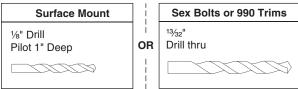
9 Align Plastic Template to Mark and Prepare Door, if Required.



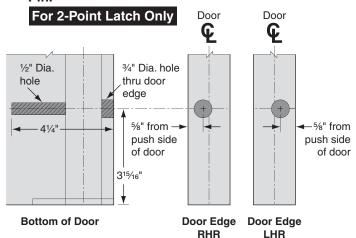


Prepare 4 Holes.

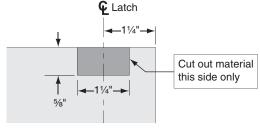




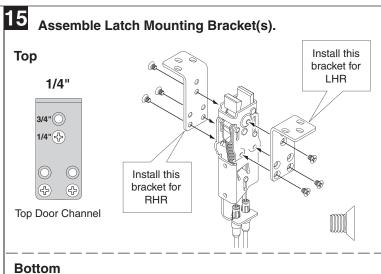
Prepare Access Hole for Bottom Latch Adjustment Pin.

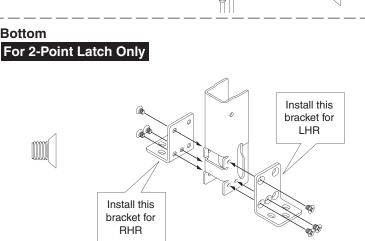


14 If Necessary, Prepare Door for Top Strike Cutout.

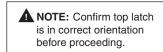


Push side of door, RHR shown



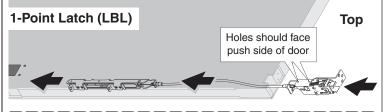


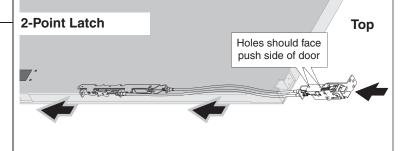
16 Insert Center Slide Assembly Thru Top Door Pocket.



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

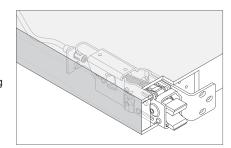
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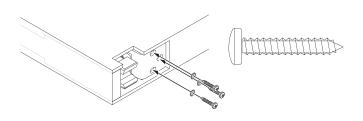




Secure Top Latch Mounting Bracket with 3 Screws.

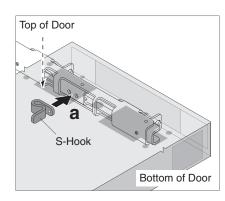
NOTE: It is normal for the cable to bend inside the door, forcing the latch outward as shown here.



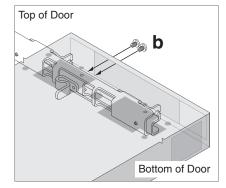


Install S-Hook.

Reach into push side face of door and hold S-hook in place



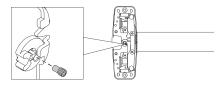
While holding onto S-hook, install finger screws through pocket in edge of door to secure S-hook





19 If Necessary, Remove NL Drive Screw.

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.

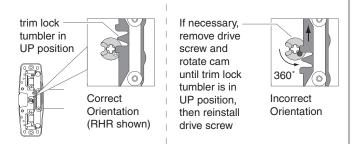
> 990TP 996L 696TP 996K 697TP

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

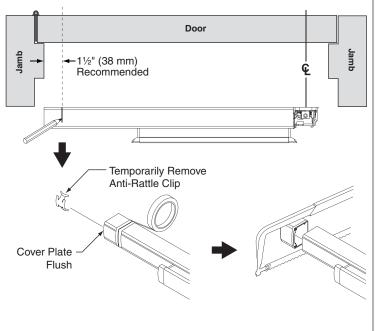
> NL, EO, DT trims and 98/99-2 double cylinder devices (i.e. TP-2, L-2, and K-2).

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

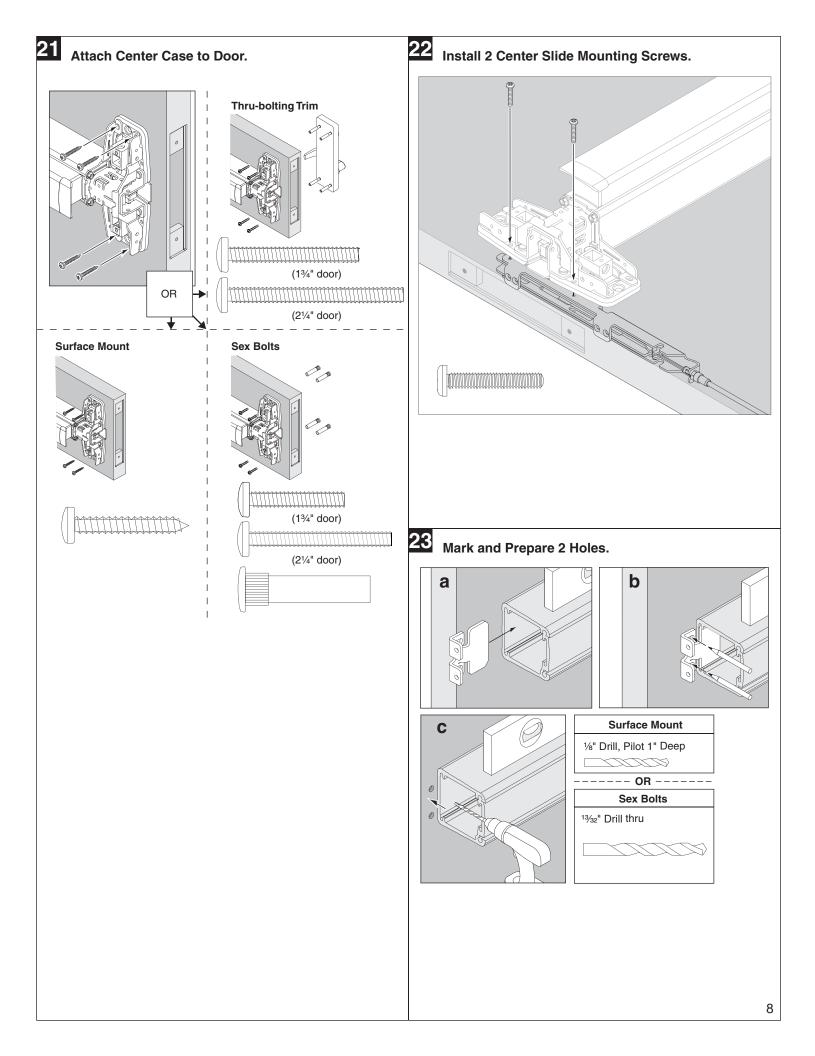
* If the trim being installed is "BE" (i.e. 996L-BE), the trim lock tumbler on the back of the device must be in the UP position before device is installed. This allows the trim to be unlocked at all times.



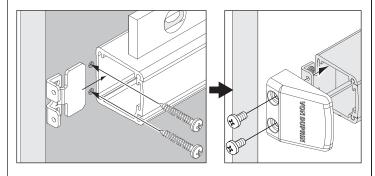
If Necessary, Cut Device.







Install End Cap Bracket and End Cap.



#10 x 1½" Wood screw (Surface mount WDC)

#10-24 x ¾" (Sex bolts, 1¾" door)

#10-24 x 1½" (Sex bolts, 2½" door)

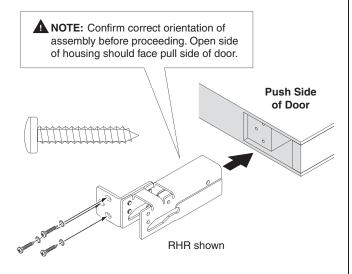
Slide Lower Cable / Bottom Latch Assembly Thru Bottom Latch Housing and into Bottom Door Pocket.

For 2-Point Latch Only

NOTE: Confirm bottom latch is in correct orientation before proceeding.

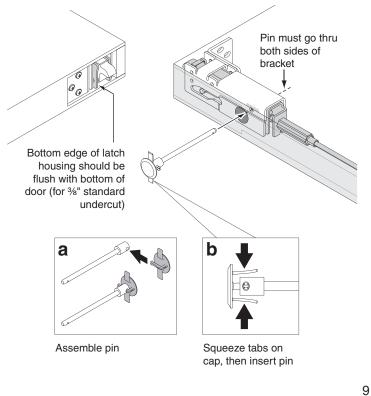


Install Bottom Latch Mounting Bracket Assembly to Bottom of Door with 3 Screws. For 2-Point Latch Only



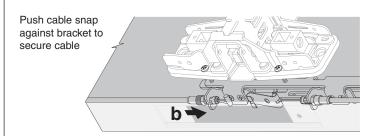
Insert Latch Adjustment Pin to Hold Bottom Latch in Place.

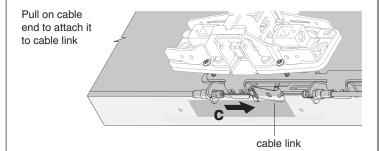
For 2-Point Latch Only



Attach Lower Cable Assembly to Center Slide. For 2-Point Latch Only

Reach into door pocket to position cable end to bottom mounting bracket



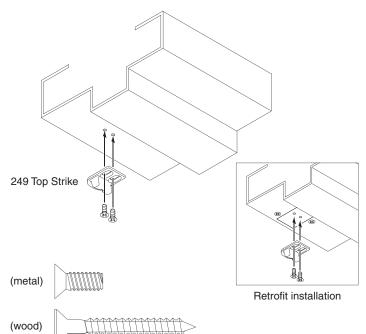


Hang Door on Frame.

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

30 **Prepare Door Frame for Top Strike.** Edge Latch (of stop Metal #25 x 1/2" Deep x2 #10-24 Use strike to ----OR---mark location Wood of 2 holes 1/8" Drill Pilot 1" Deep x2

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



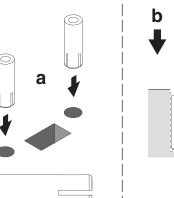
Prepare Floor for Bottom Strike. For 2-Point Latch Only

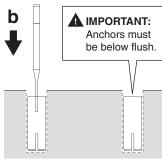
Pull Side Q Latch Chisel out pocket 1/2" Deep 3/8" Dia. x 11/4" Deep **Push Side** 2 places

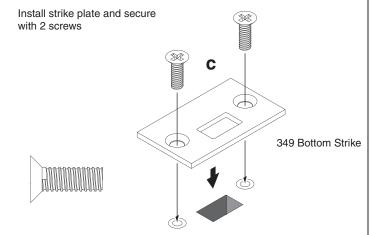
33 Install Bottom Strike. For 2-Point Latch Only

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

Secure the anchors using a hammer and punch

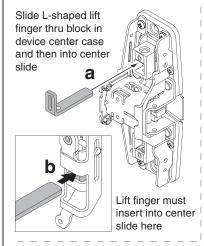




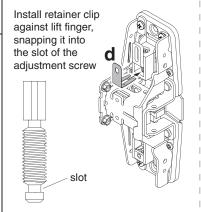


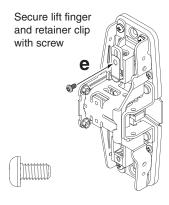
Install Lift Finger and Retainer Clip.

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



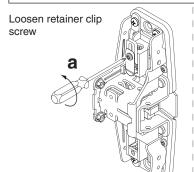
Insert adjustment screw and rotate with screwdriver to raise lift finger until it is snug against block





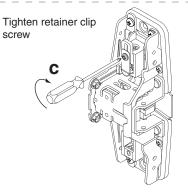
35 Adjust Lift Finger.

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



screw

Loosen adjustment screw until the lift finger drops and you feel contact with the S-Hook



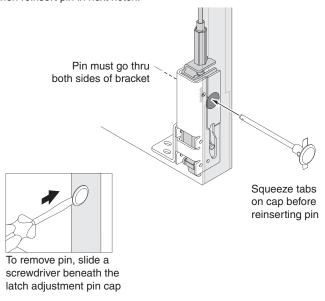
11

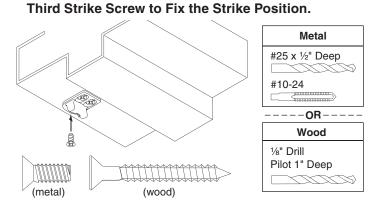


- Depress pushbar. Door should begin to open when pushbar is nearly fully depressed. If necessary, refer to Step 35 to readjust lift finger.
- b. With door closed, top latch should be secure.

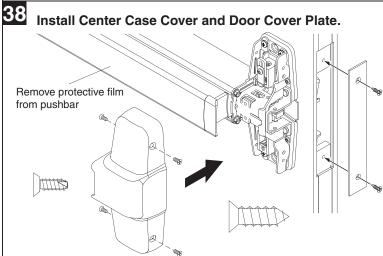
For 2-Point Latch Only

- c. With door closed, bottom latch should be secure.
- d. Confirm that bottom latch does not drag against floor when door is opened. If this occurs, remove latch adjustment pin and raise latch, then reinsert pin in next notch.





Adjust Top Strike as Necessary, then Install the

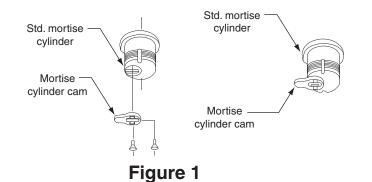


OPTIONAL EQUIPMENT



- 1. 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



Dogging procedure

