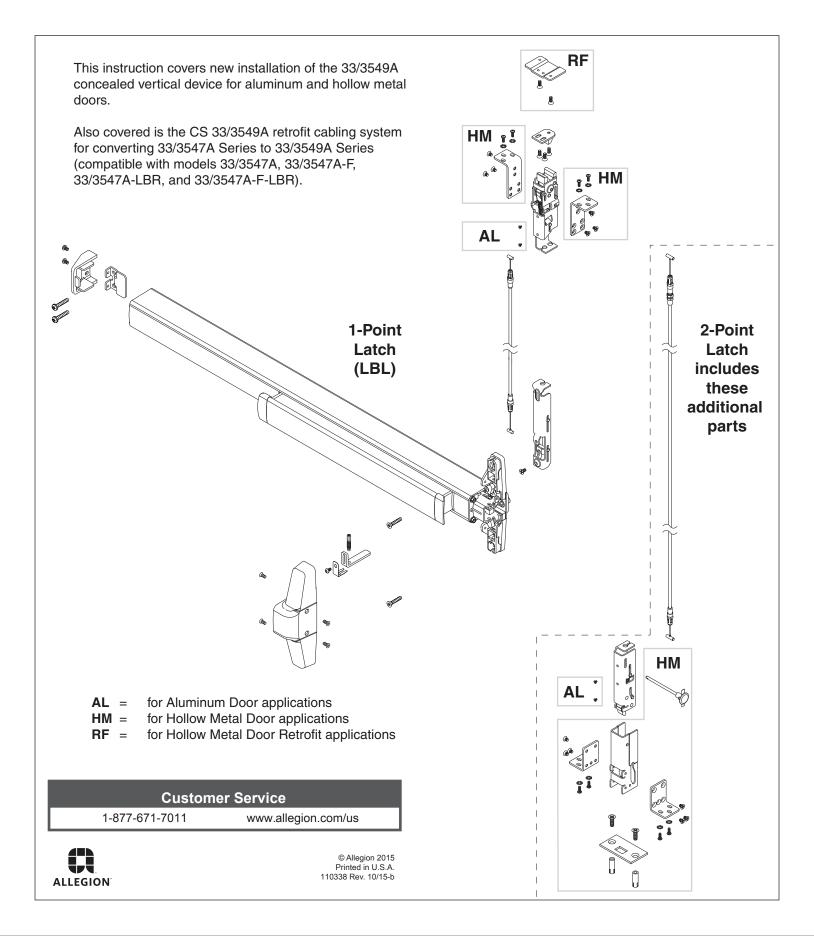
FOR DEVICES SOLD PRIOR TO 4-14-14

33/3549A CS 33/3549A

VON DUPRIN

Installation Instructions

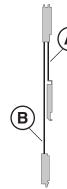


Identify Cables and Locations.

(if not preinstalled in door)

NOTE: For retrofit installations, begin at Step 5.

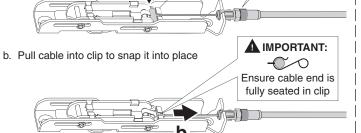
For easy identification, each cable is labeled with part number and location.



CABLE IDENTIFICATION (STANDARD SIZES)				
	HOLLOW METAL AND WIDE STILE ALUMINUM DOORS		NARROW STILE ALUMINUM DOORS	
Door Opening Height	A Top Cable (Red)	B Bottom Cable (White)	A Top Cable (Red)	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

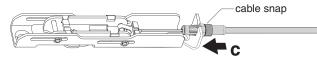
2 Install Cable(s).

a. Position red cable end to clip on center slide

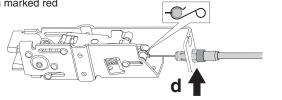


Red

c. Push cable snap against center slide to secure cable

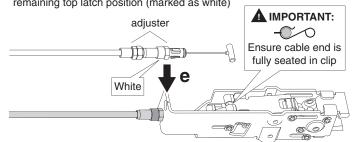


d. In the same way, install opposite end of red cable to top latch in the position marked red

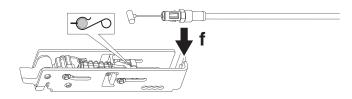


For 2-Point Latch Only

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



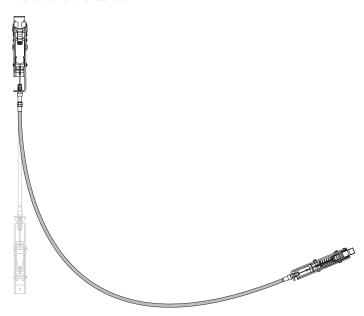
CABLE REMOVAL

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.

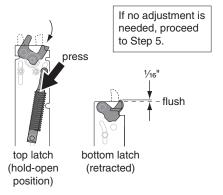
Determine if Bottom Latch Retraction Adjustment is Necessary.

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.



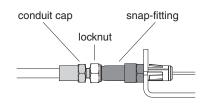
Adjust Bottom Latch Retraction (if necessary). For 2-Point Latch Only



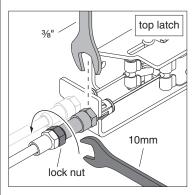
NOTE: Adjustment must be made while the top latch is in the hold-open position, with cable flexed into an L-shape to simulate the installed condition of the latches.



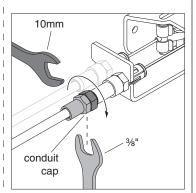
These (3) hex components are used to make the adjustment.



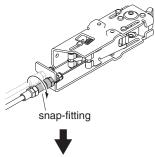
a. While holding the snap-fitting with a 3/8" wrench, use a 10mm wrench to break loose the lock nut.

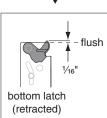


c. While holding the conduit cap with a 3/8" wrench, use a 10mm wrench to turn the locknut in a clockwise direction to close the gap between the lock nut and snap-fitting. Stop when the gap is closed and the snap-fitting begins to turn with the locknut.

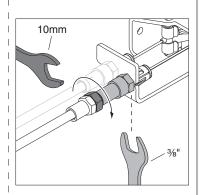


b. While holding the lock nut in place, rotate the barrel of the snap-fitting clockwise by hand until the bottom latch is retracted to within 1/16" of flush.



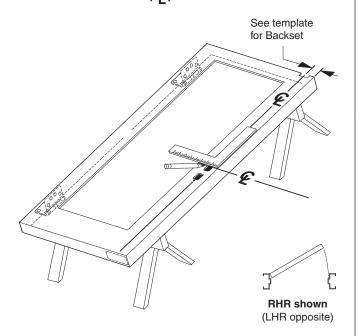


d. While holding the snap-fitting with a 3/4" wrench, continue to tighten the locknut until it is secure.

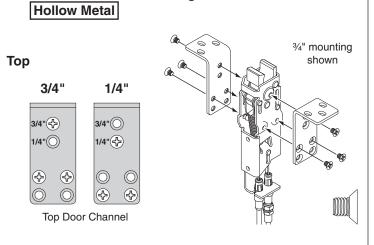


5 If Retrofit Installation

- a. Remove device from existing door.
- Remove and discard existing door.
- c. Remove and discard existing strikes.
- With Door Laying Flat, Draw Horizontal and Vertical Device Center Lines (;).

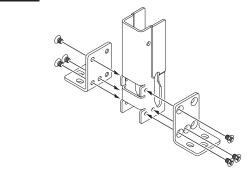


NOTE: Centerlines are predetermined by cutout. If no cutout exists, refer to templates at the back of this instruction to determine centerlines.

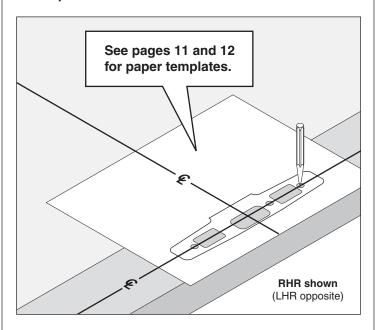


Assemble Latch Mounting Brackets.

Bottom For 2-Point Latch Only

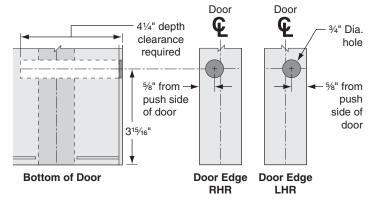


Align Paper Template to Mark and Prepare Door, if Required.



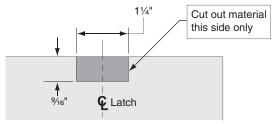
Prepare Access Hole for Bottom Latch Adjustment Pin.

Hollow Metal For 2-Point Latch Only



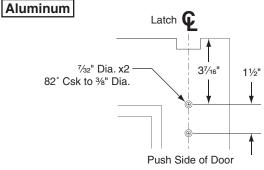
4



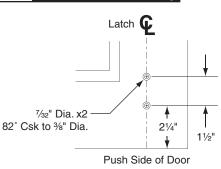


Push side of door, RHR shown

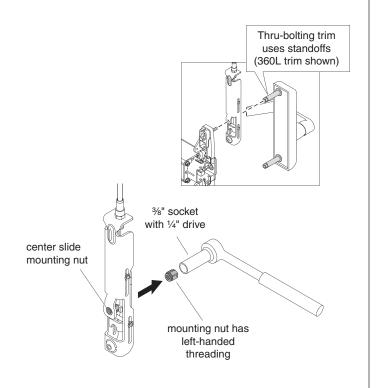
Prepare Top of Door for Latch Mounting.



Prepare Bottom of Door for Latch Mounting. Aluminum For 2-Point Latch Only



If Using 360/386/388 Thru-Bolting Trim, Remove Center Slide Mounting Nut.

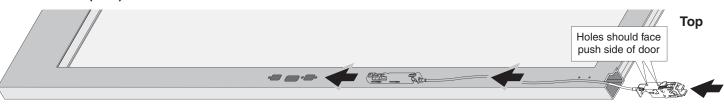




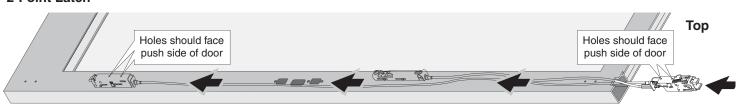
A NOTE: Confirm top latch (and bottom latch, if applicable) is in correct orientation before proceeding.

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

1-Point Latch (LBL)



2-Point Latch

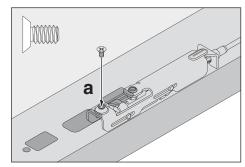


Aluminum Door application shown

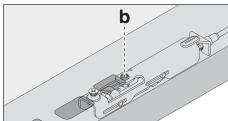
5

15 Secure Center Slide to Door.

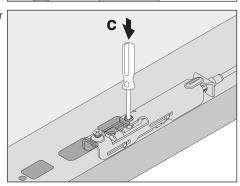
Secure center slide to door by lightly tightening lower screw



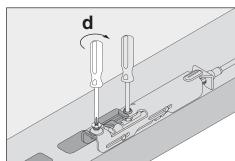
Align upper hole visually



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

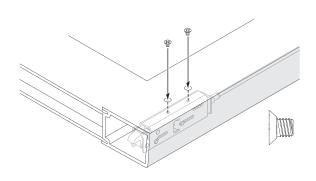


Fully tighten lower screw



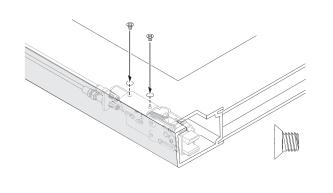
Align Bottom Latch and Install Mounting Screws.

Aluminum For 2-Point Latch Only



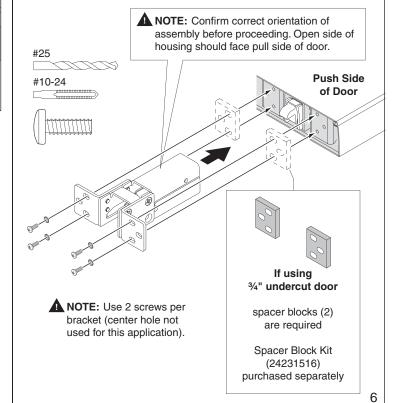
Secure Top Latch with 2 Screws.

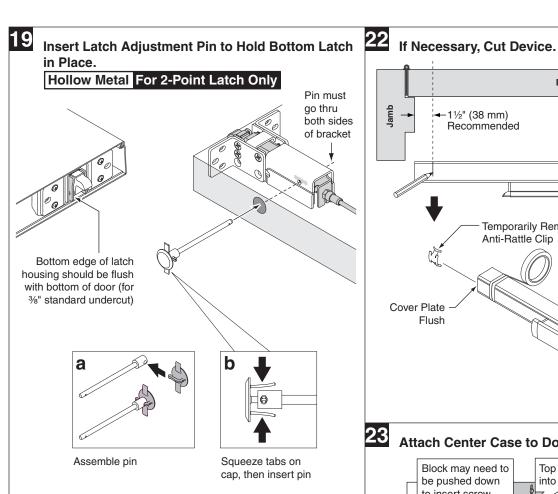
Aluminum



Install Bottom Latch Mounting Bracket Assembly.

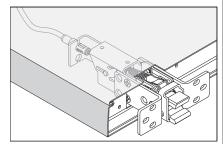
Hollow Metal For 2-Point Latch Only

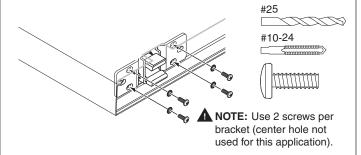




Secure Top Latch Mounting Bracket. Hollow Metal

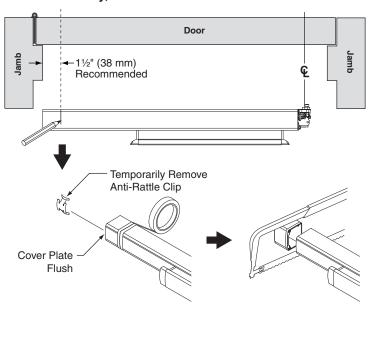
A NOTE: It is normal for the cable to bend inside the door, forcing the latch outward as shown here.



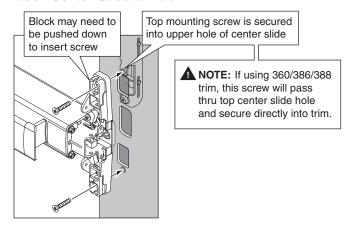


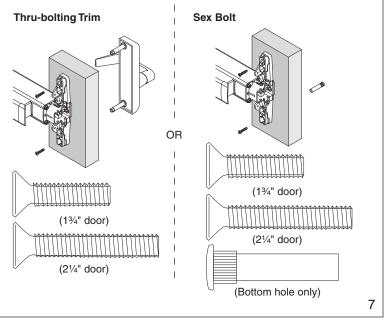
Hang Door on Frame.

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

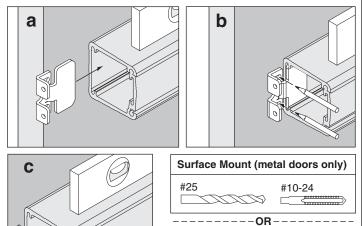


Attach Center Case to Door.





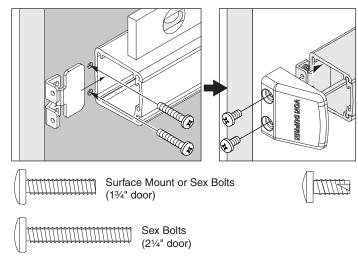




Sex Bolts

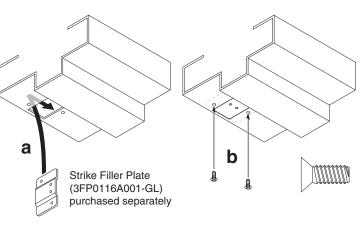
1/4" (device side)
13/32" (trim side)

25 Install End Cap Bracket and End Cap.

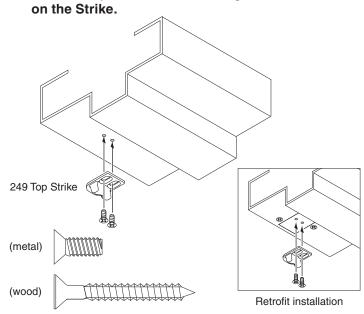


If New Installation, Prepare Door Frame for Top Strike. Edge Latch (of stop Metal #25 x 1/2" Deep x2 #10-24 ---OR---Use strike to mark location Wood of 2 holes 1/8" Drill Pilot 1" Deep x2

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



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

29

Chisel out pocket 1/2" Deep 7/8" 1/2" 1" 3/8" Dia. x 11/4" Deep

Push Side

8

2 places

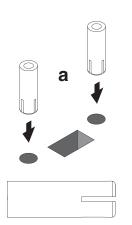
Pull Side

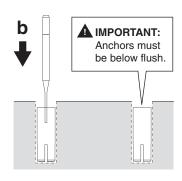
Install Bottom Strike.

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

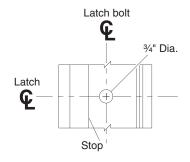




Install strike plate and secure with 2 screws C 349 Bottom Strike

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.

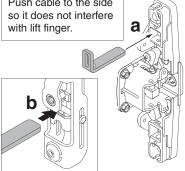


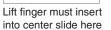
Install Lift Finger and Retainer Clip.

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

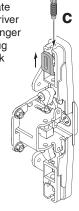
Slide L-shaped lift finger thru block in device center case and then into center slide

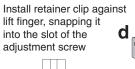
For 2-Point Latch Only Push cable to the side so it does not interfere with lift finger.

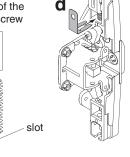




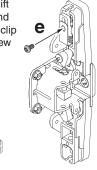
Insert adjustment screw through top slot and rotate with screwdriver to raise lift finger until it is snug against block







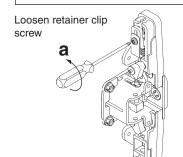
Secure lift finger and retainer clip with screw



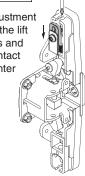
b

Adjust Lift Finger.

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

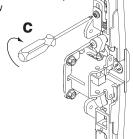


Loosen adjustment screw until the lift finger drops and you feel contact with the center slide



9





Perform Functional Test of Door.

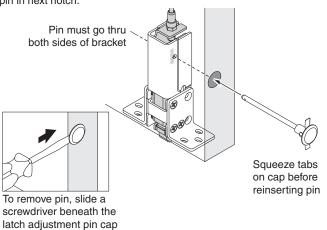
- Depress pushbar. Door should begin to open when pushbar is nearly fully depressed. If necessary, refer to Step 33 to readjust lift finger.
- b. With door closed, top latch should be secure.

For 2-Point Latch Only

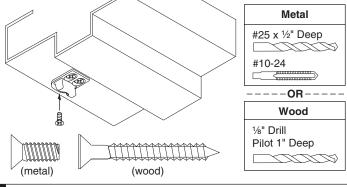
- c. With door closed, bottom latch should be secure.
- d. Confirm that bottom latch does not drag against floor when door is opened.

Hollow Metal For 2-Point Latch Only

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



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



Install Center Case Cover.

Remove protective film from pushbar

OPTIONAL EQUIPMENT

CD (CYLINDER DOGGING)

- 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

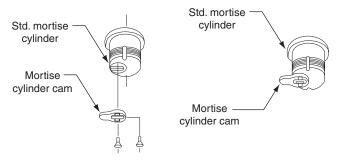


Figure 1

Dogging procedure

