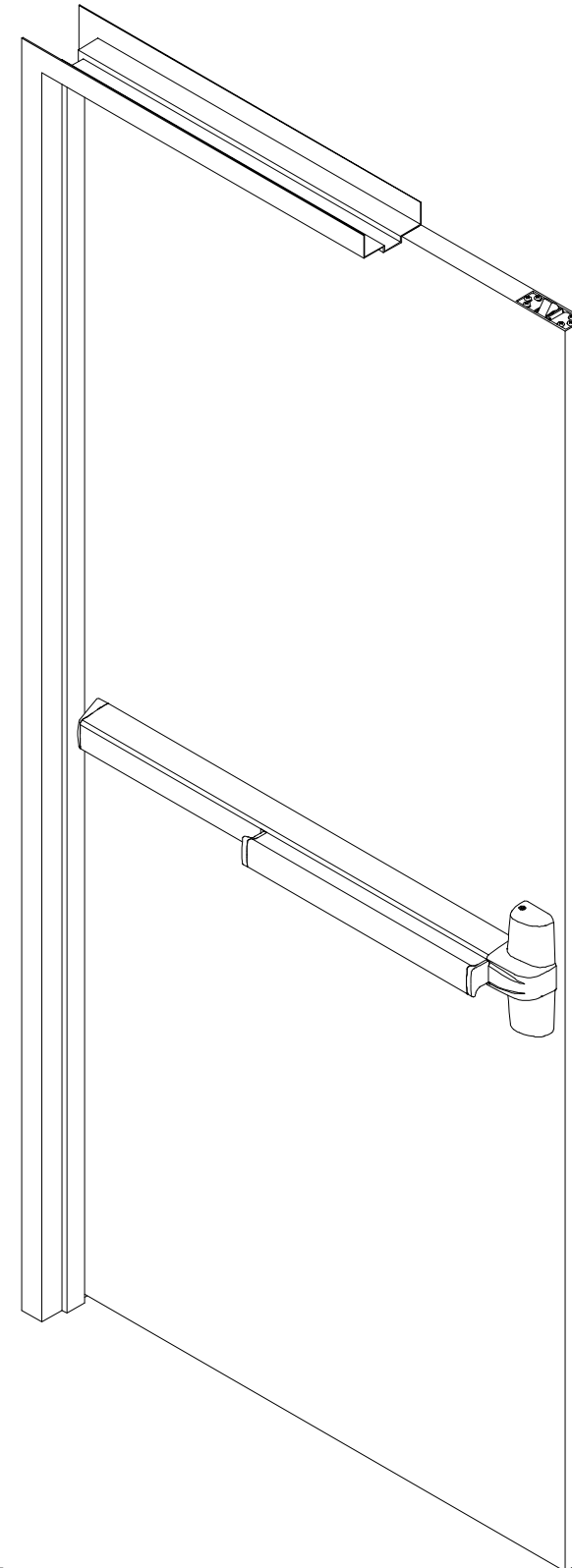
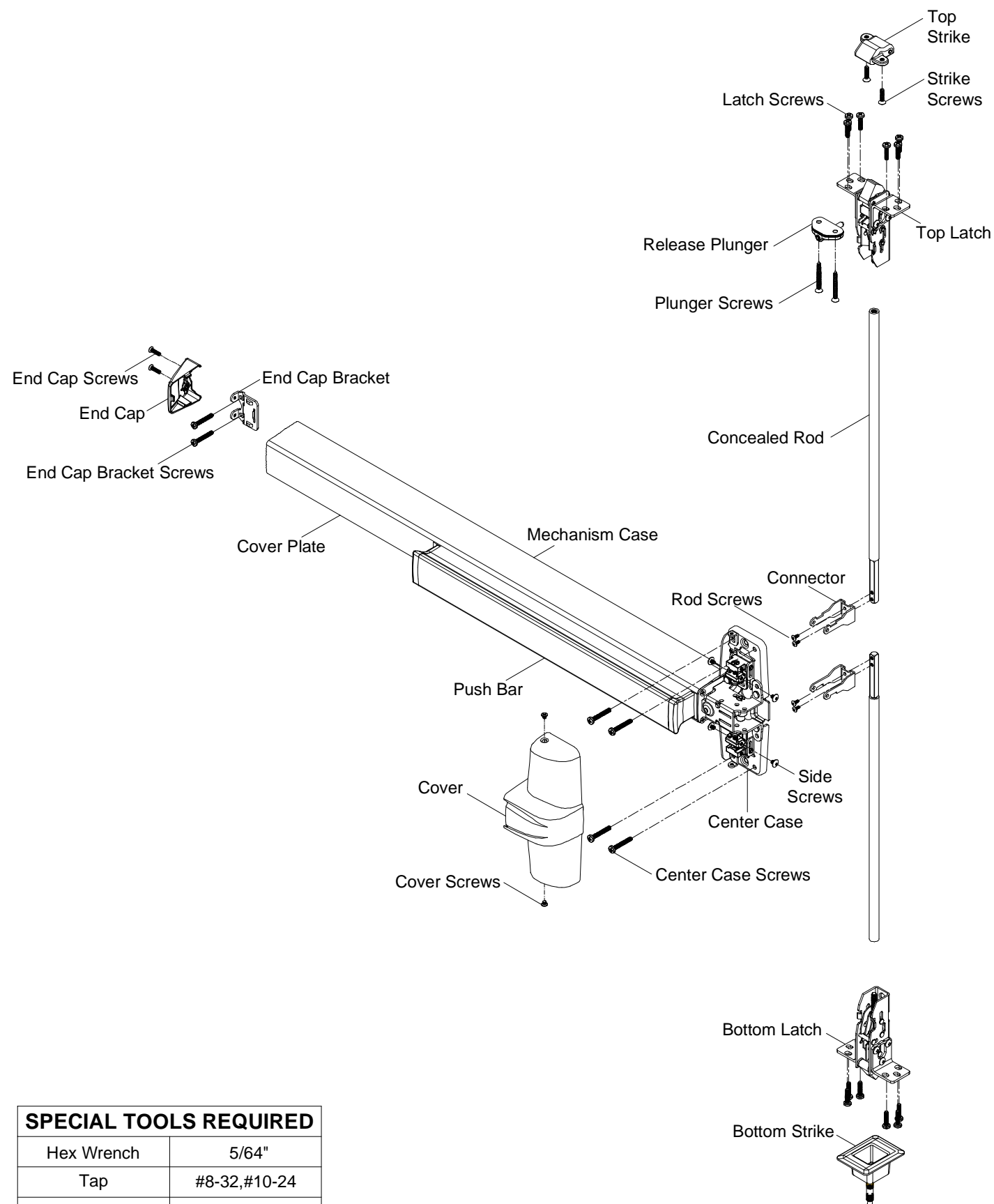


**1300/F1300 SERIES
CONCEALED VERTICAL ROD DEVICE
INSTALLATION INSTRUCTIONS**

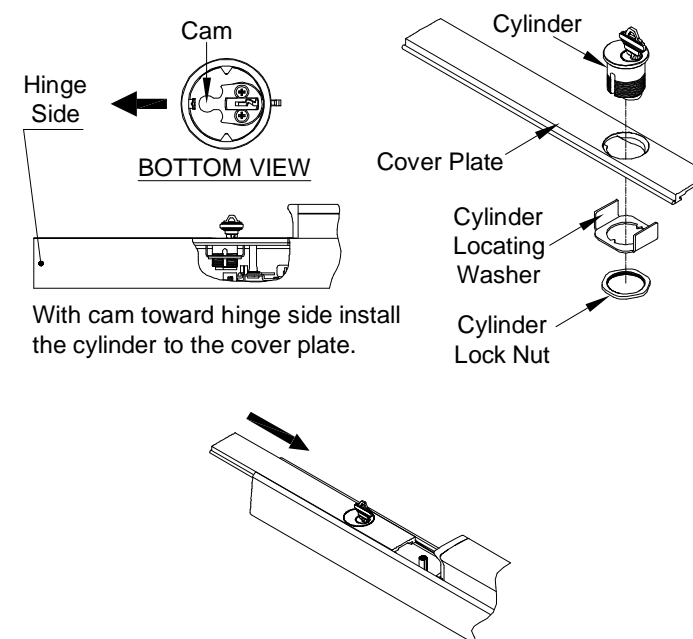




SPECIAL TOOLS REQUIRED	
Hex Wrench	5/64"
Tap	#8-32, #10-24
Drill Bits	#25, 1/8", 1/4", 5/16", 13/32"
Spade Drill	5/8" (For Wood Door)

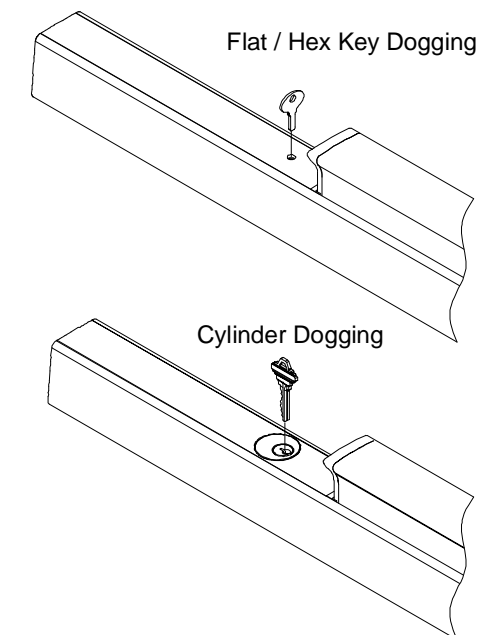
OPTIONAL DOGGING

CYLINDER DOGGING



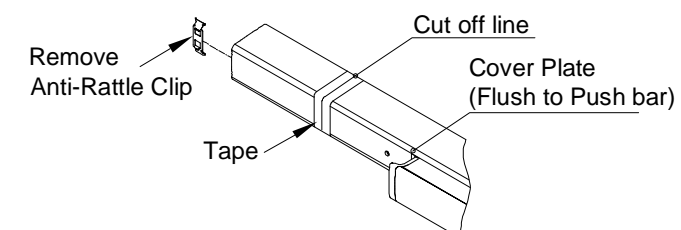
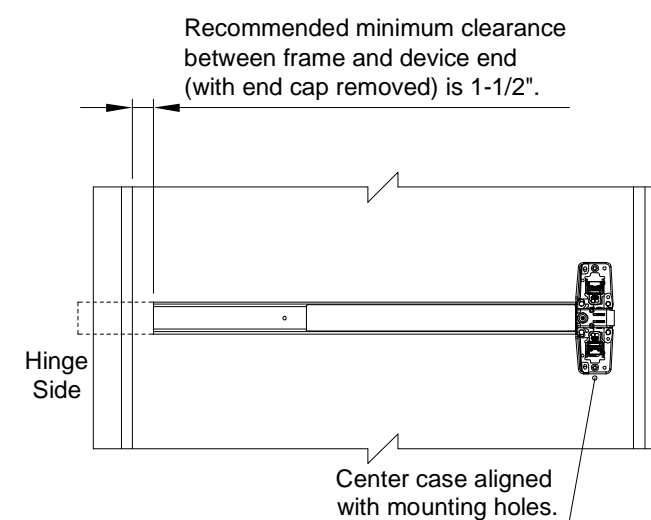
Slide cover plate in position in the mechanism case.

DOGGING CHECK

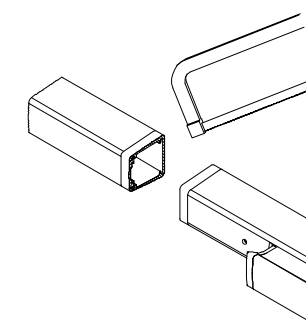


Depress push bar and turn flat / hex wrench or key one full turn for dogging check.

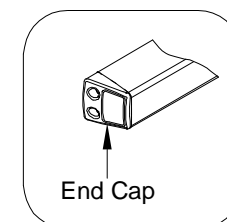
CUT DEVICE (IF REQUIRED)



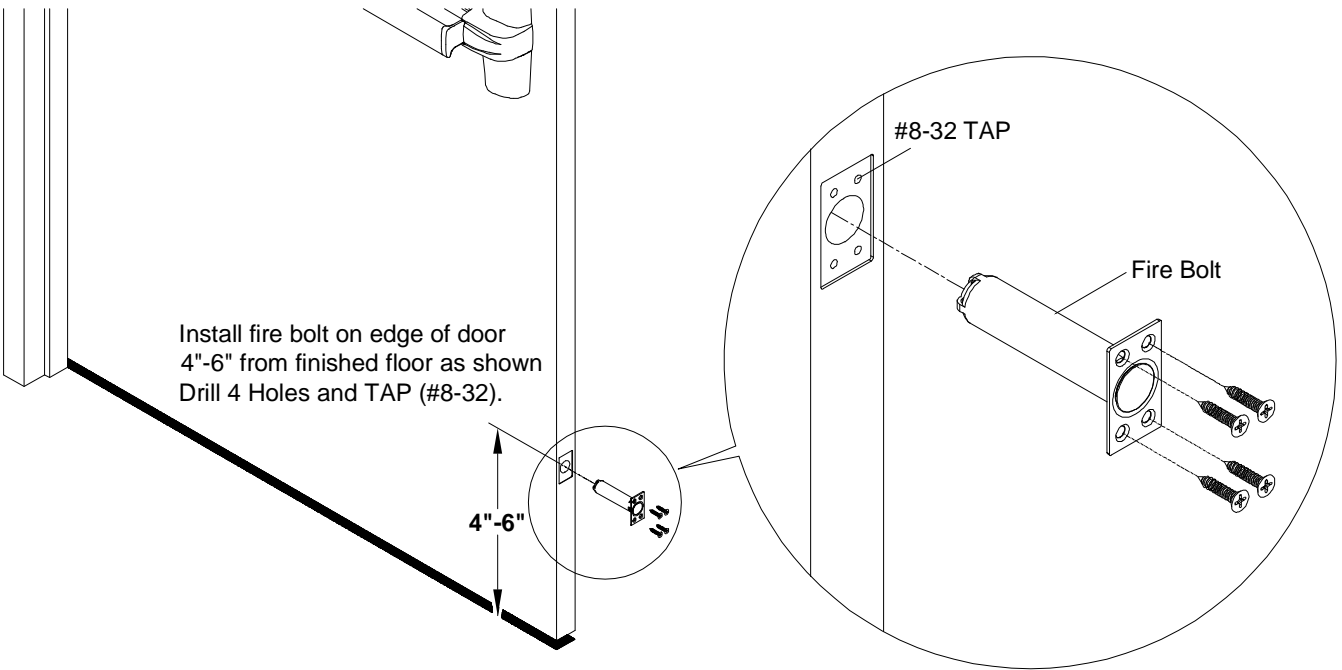
1. With anti-rattle clip removed, tape and mark area being cut.



2. Cut off device and deburr.
NOTE: Device must be cut square for proper end cap fit.



INSTALL FIRE BOLT



NOTE: Fire rated device with less bottom rod (LBR) applications must use FIRE BOLT.

CUT TOP ROD / EXTEND TOP ROD

CUT TOP ROD

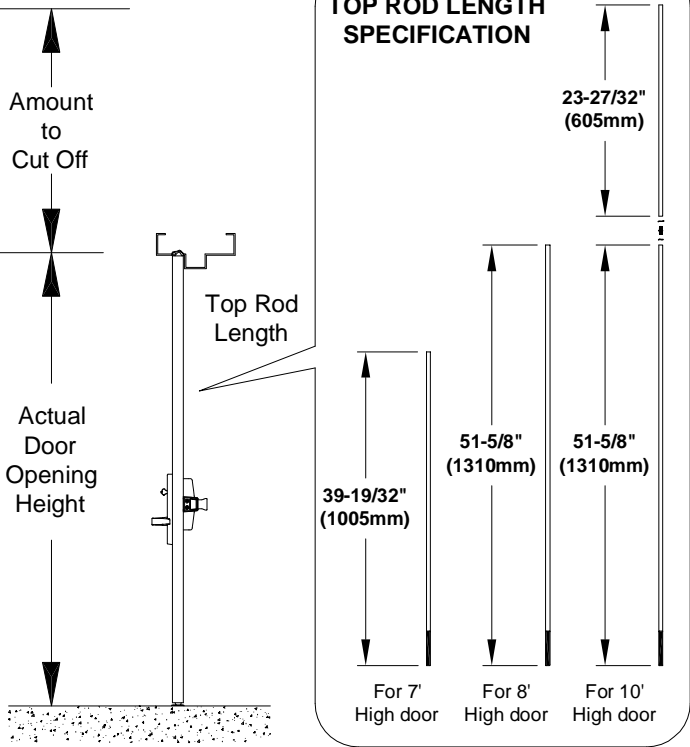
Step 1: Make sure the flat side of rod, and measure amount to cut off rod.

NOTE: Rod cutting is required for doors shorter than 7'.

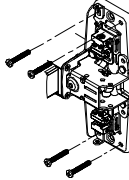
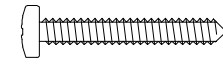
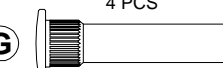
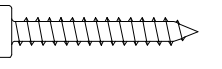
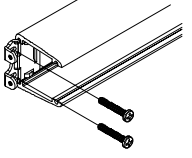
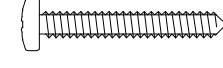
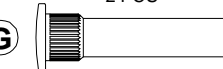
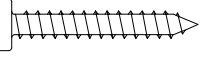
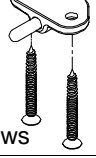

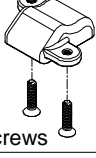

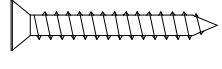
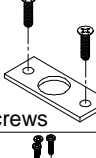
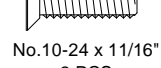

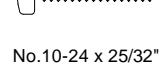
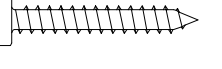
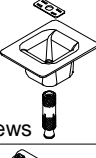
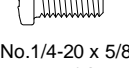
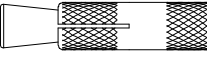


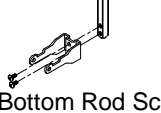

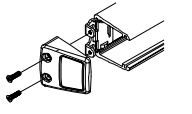

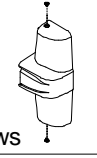

Step 2: Tap #1/4-20 ; 1" deep.

EXTEND TOP ROD

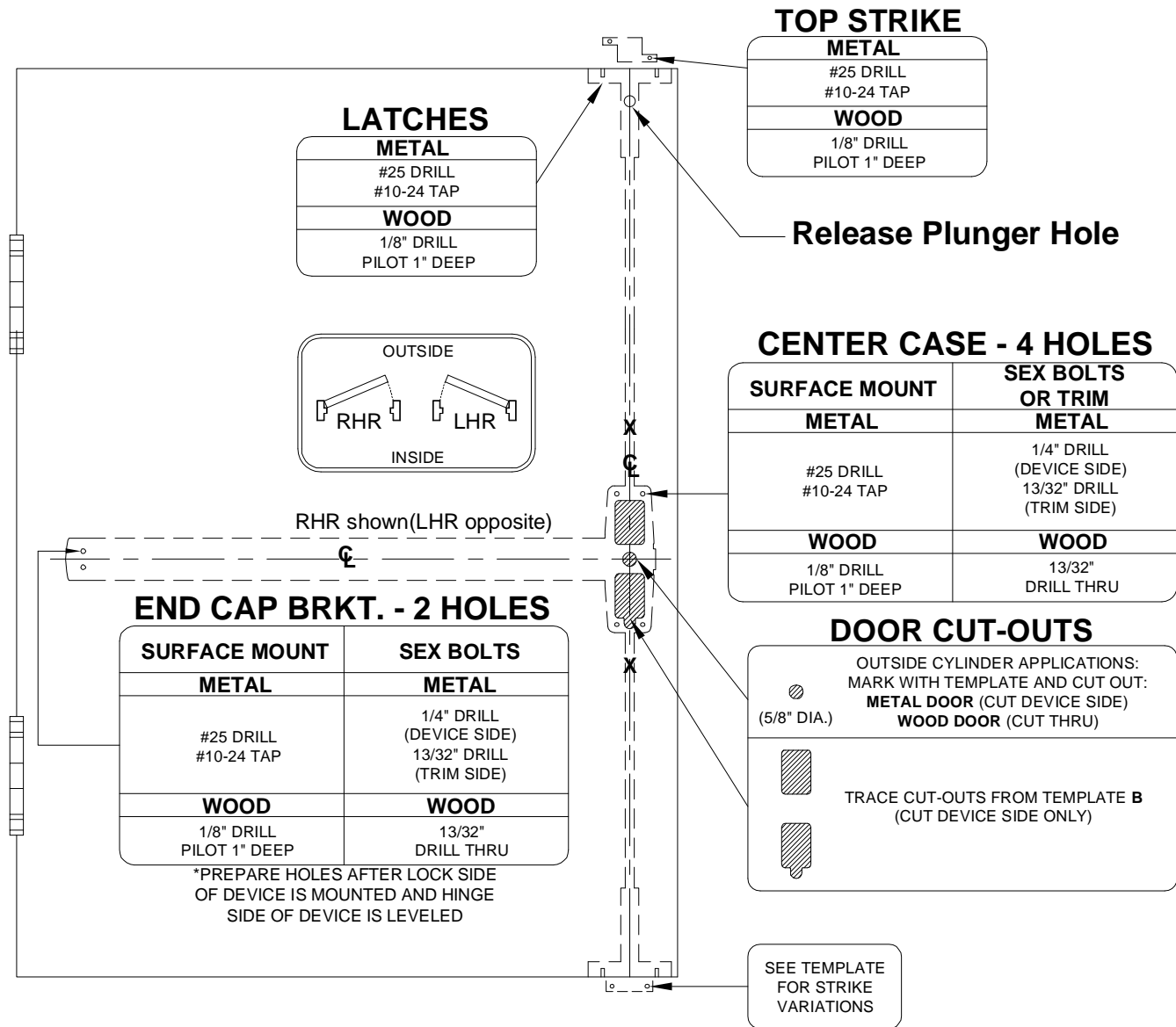
Install rod extension & spring washer to connect two(2) rods tightly.



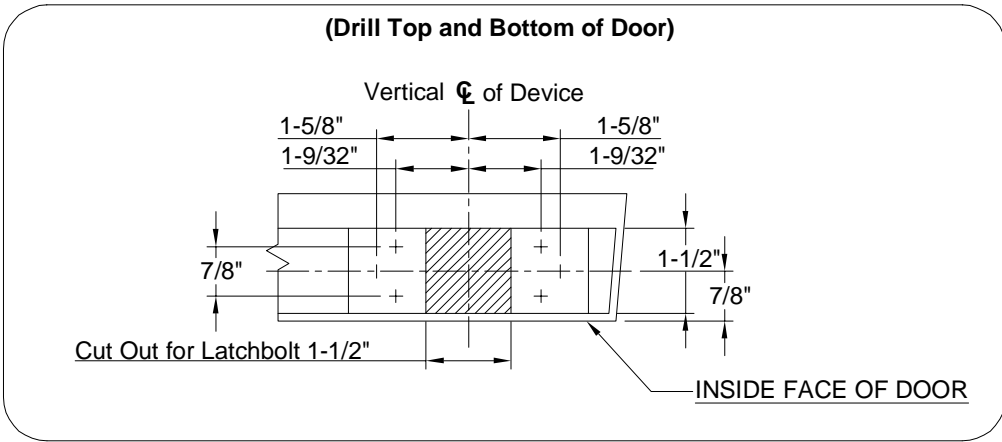
SCREW CHART

APPLICATION	METAL	SEX BOLTS	WOOD
 Center Case Screws	 No.10-24 x 1-11/32" 4 PCS	 No.10-24 x 1-3/32" 4 PCS	 No.10-12 x 1-11/32" 4 PCS
 End Cap Bracket Screws	 No.10-24 x 1-11/32" 2 PCS	 No.10-24 x 1-3/32" 2 PCS	 No.10-12 x 1-11/32" 2 PCS
 Plunger Screws		 No.10-24 x 1-5/8" 2 PCS	
 216 Strike Screws	 No.10-24 x 11/16" 2 PCS		 No.10-12 x 1-11/32" 2 PCS
 225 Strike Screws	 No.10-24 x 11/16" 2 PCS		
 Top / Bottom Latch Screws	 No.10-24 x 25/32" 6 PCS		 No.10-12 x 1-11/32" 6 PCS
 227 Strike Screws	 No.1/4-20 x 5/8" 1 PCS	 No.1/4-20 x 5/8" 1 PCS	
 Side Screws		 No.8-32 x 7/32" 4 PCS	
 Top / Bottom Rod Screws		 No. 8-32 x 5/16" 2 PCS	
 End Cap Screws		 No.8-32 x 5/8" 2 PCS	
 Cover Screws		 No.8-32 x 5/32" 2 PCS	

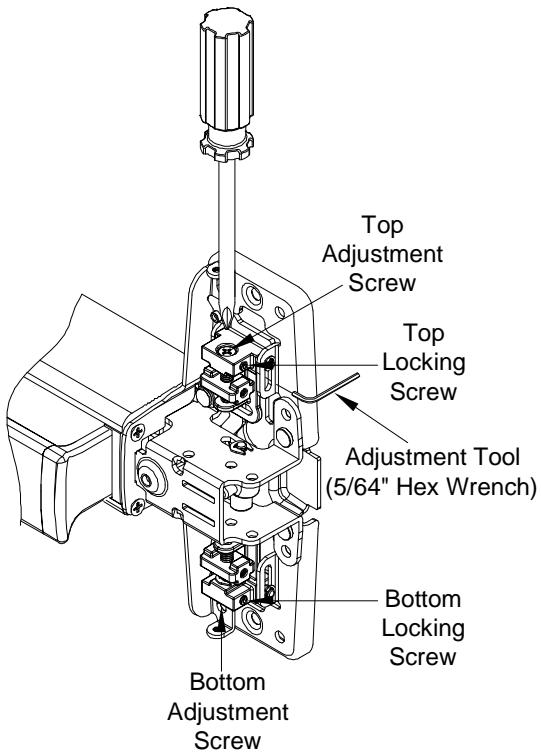
DOOR PREPARATION CHART



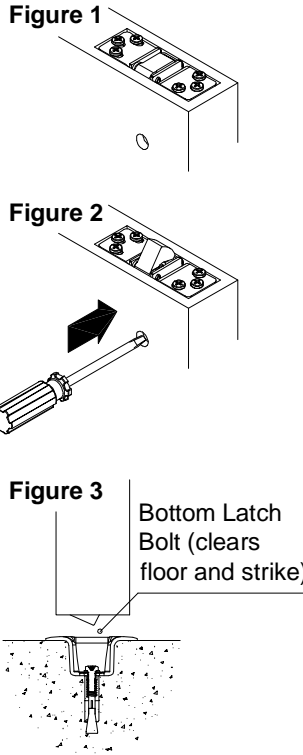
LATCH HOLE PREPARATION



14 ADJUST LATCHES AND SECURE TOP & BOTTOM LOCKING SCREWS.



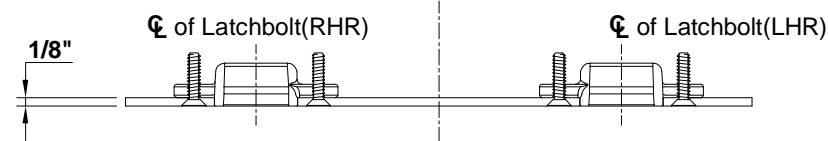
1. Depress push bar to retract the latch bolt and open the door.
2. Check top latch for **HOLDBACK** (Latchbolt stays retracted in latch case). **See Figure 1**
3. Loose top locking screw.
4. Rotate top adjustment screw until top latchbolt is fully retracted.
5. Release top latchbolt. **See Figure 2**
6. Check top latchbolt for **DEADLOCK** (Latchbolt should not push in).
7. Rotate top adjustment screw until top latchbolt is in **DEADLOCK**.
8. Tighten top locking screw.
9. Depress push bar and retract latchbolt.
10. Make sure top latchbolt stays retracted as shown. **See Figure 1**
11. Loose bottom locking screw.
12. With top latchbolt still retracted, adjust bottom rod by rotating bottom adjustment screw, so latchbolt clears floor and bottom strike in **HOLDBACK**. **See Figure 3**
13. Release top latchbolt. **See Figure 2**
14. Check bottom latchbolt for **DEADLOCK**.
15. Tighten bottom locking screw.
16. Open and close door several times and check device operation and function of **DEADLOCK & HOLDBACK**.



FRAME PREPARATION

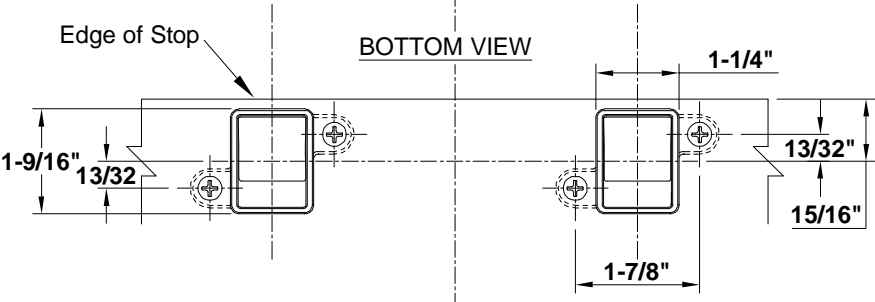
216 STRIKES

FRONT VIEW



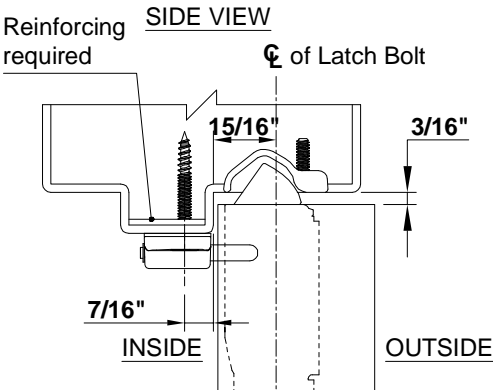
ϕ Double Door Application

BOTTOM VIEW

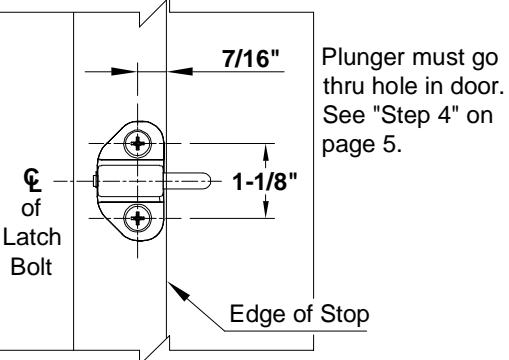


RELEASE PLUNGER

SIDE VIEW



BOTTOM VIEW



12 HANG DOOR AND INSTALL TOP STRIKE & RELEASE PLUNGER.

See "FRAME PREPARATION" on page 9 for cut-out and holes. After preparing, install top strike into door frame and mount two(2) strike screws.

See "FRAME PREPARATION" on page 9 for holes. After preparing, install release plunger with two(2) plunger screws.

15 INSTALL CASE COVER.

Attach cover to center case with two(2) center case screws.

13 INSTALL BOTTOM STRIKE.

226 Strike

1. Mark floor for fasteners, prepare floor according to the type of strike and fastener furnished. Provide clearance in floor for bolt.

2. For threshold application: Provide hole in threshold according to type of strike and fasteners furnished.

1 DRAW HORIZONTAL DEVICE CENTER LINE(℄).

RHR shown (LHR opposite)

Lay door in place and draw horizontal device center line as shown.

2 DRAW VERTICAL ℄ & MARK BACKSET.

Position template as shown, then mark vertical center line for device center case.

3 PREPARE DOOR FOR DEVICE AND TOP & BOTTOM LATCH.

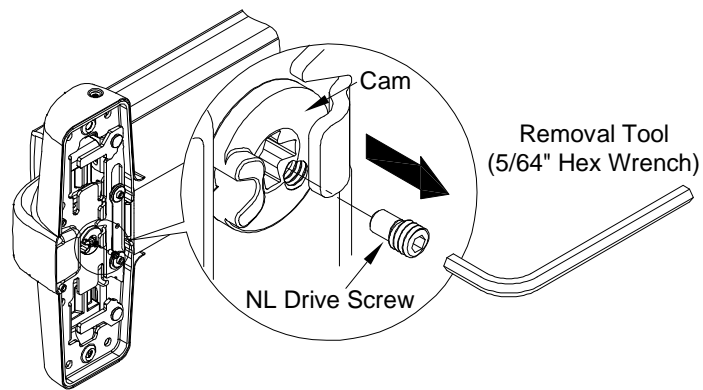
See "DOOR PREPARATION CHART" on page 4 for drill tap, and cut-out information.

4 DRILL TOP OF DOOR FOR RELEASE PLUNGER.

Stop Height	A
1/2"	11/16"
5/8"-Std.	13/16"
3/4"	15/16"

Measure "Stop Height of Door Frame" to decide "Dimension of A".

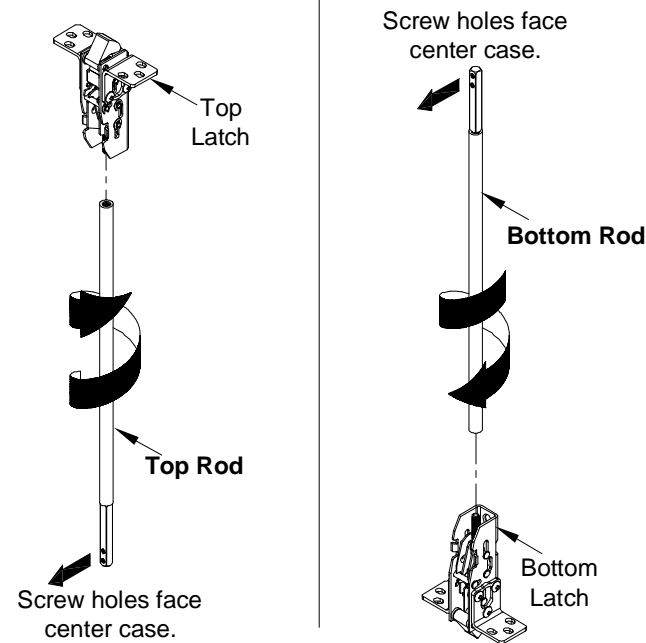
5 DETERMINE USE OF NL DRIVE SCREW.



NL driver screw is factory assembled in cam on back of device center case, when the NL drive screw is left in back of center case, the outside cylinder will function only as a Night Latch.

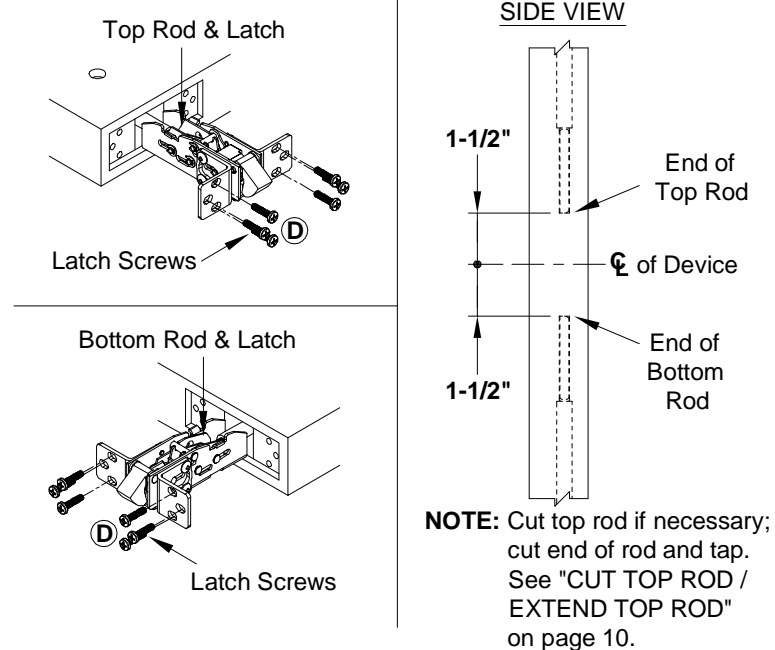
- NOTE:** 1. **DO NOT** remove NL drive screw for Pull Plate or Escutcheon with night latch cylinder.
2. **REMOVE** NL drive screw from back of center case when installing trim that has a functional lever, knob, or thumbpiece AND an outside cylinder to lock and unlock the trim.

6 ATTACH RODS TO LATCHES.



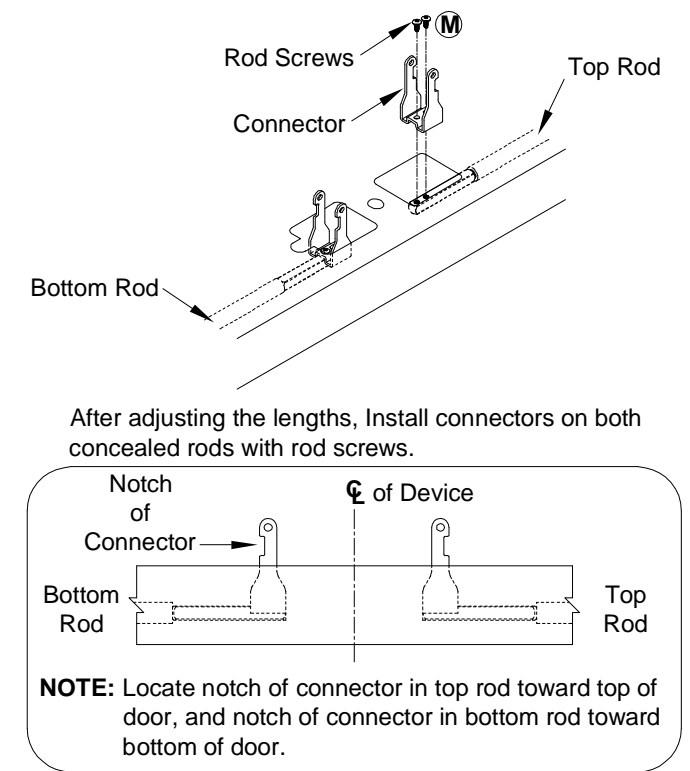
Thread rod onto latch stud until screw holes in rod bars face center case.

7 INSTALL RODS AND LATCH.

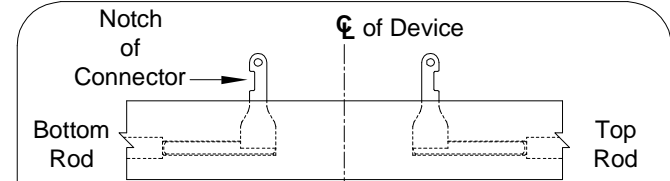


1. Install top latch and latch screws from top of door.
2. Install bottom latch and latch screws from bottom of door.
3. Fine tune the overall length by threading latch in or out of rod.

8 INSTALL CONNECTORS.



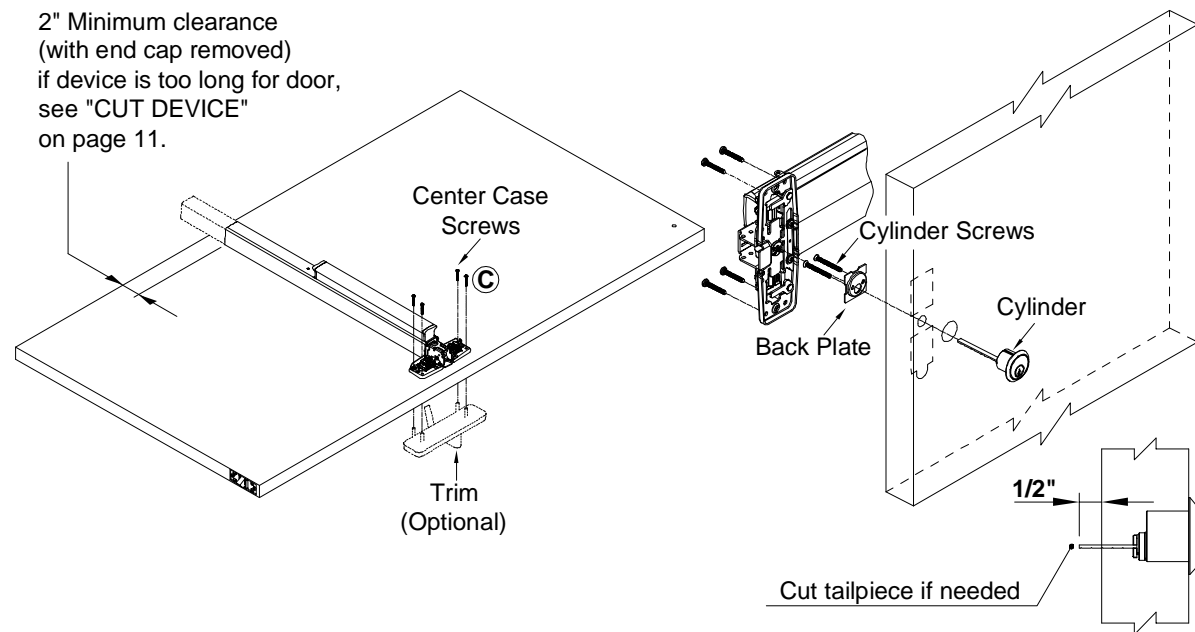
After adjusting the lengths, install connectors on both concealed rods with rod screws.



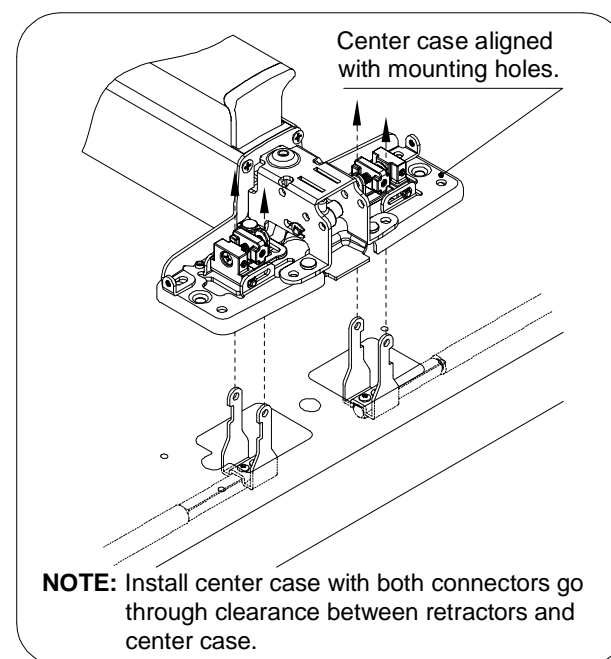
NOTE: Locate notch of connector in top rod toward top of door, and notch of connector in bottom rod toward bottom of door.

9 INSTALL TRIM (IF USING) AND SECURE DEVICE CENTER CASE TO DOOR.

2" Minimum clearance (with end cap removed) if device is too long for door, see "CUT DEVICE" on page 11.

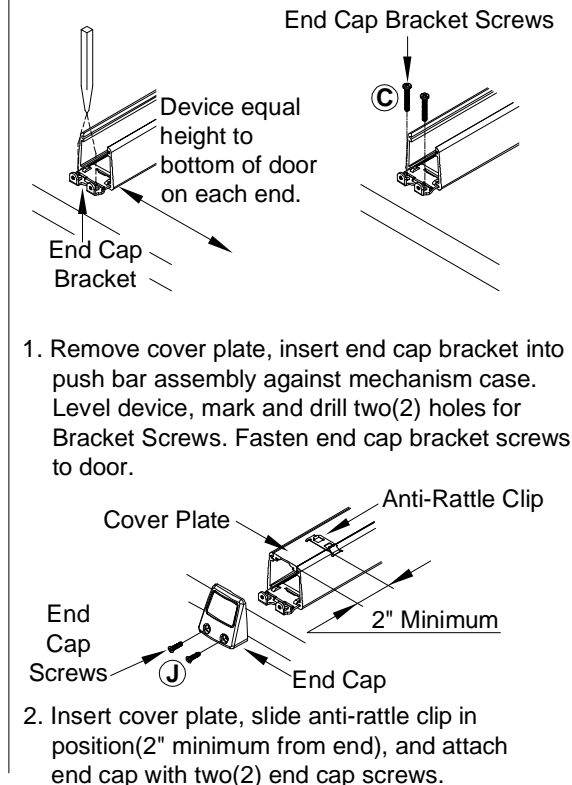


1. **DEVICE WITH TRIM** - See "Trim Instructions".
2. **CYLINDER ONLY** - Install cylinder with cylinder back plate as shown. Make sure the tailpiece is extending 1/2" from the inside face of door. Insert tailpiece into cam in the center case and mount it to the door with four(4) center case screws.
3. **EXIT ONLY** - Mount center case to the door with four(4) center case screws.

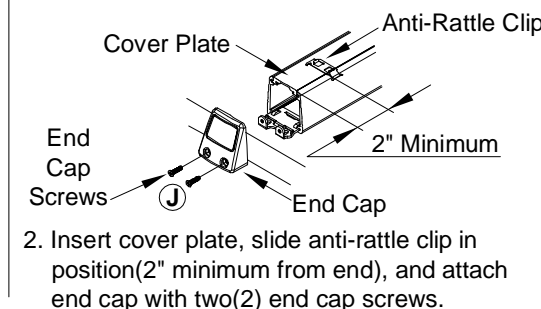


NOTE: Install center case with both connectors go through clearance between retractors and center case.

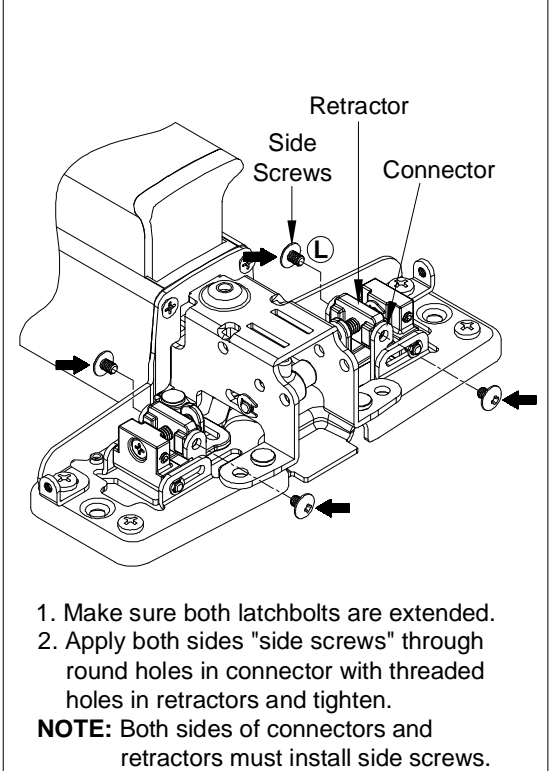
10 INSTALL MOUNTING BRACKET AND END CAP.



1. Remove cover plate, insert end cap bracket into push bar assembly against mechanism case. Level device, mark and drill two(2) holes for Bracket Screws. Fasten end cap bracket screws to door.



11 INSTALL SIDE SCREWS.



1. Make sure both latchbolts are extended.
 2. Apply both sides "side screws" through round holes in connector with threaded holes in retractors and tighten.
- NOTE:** Both sides of connectors and retractors must install side screws.