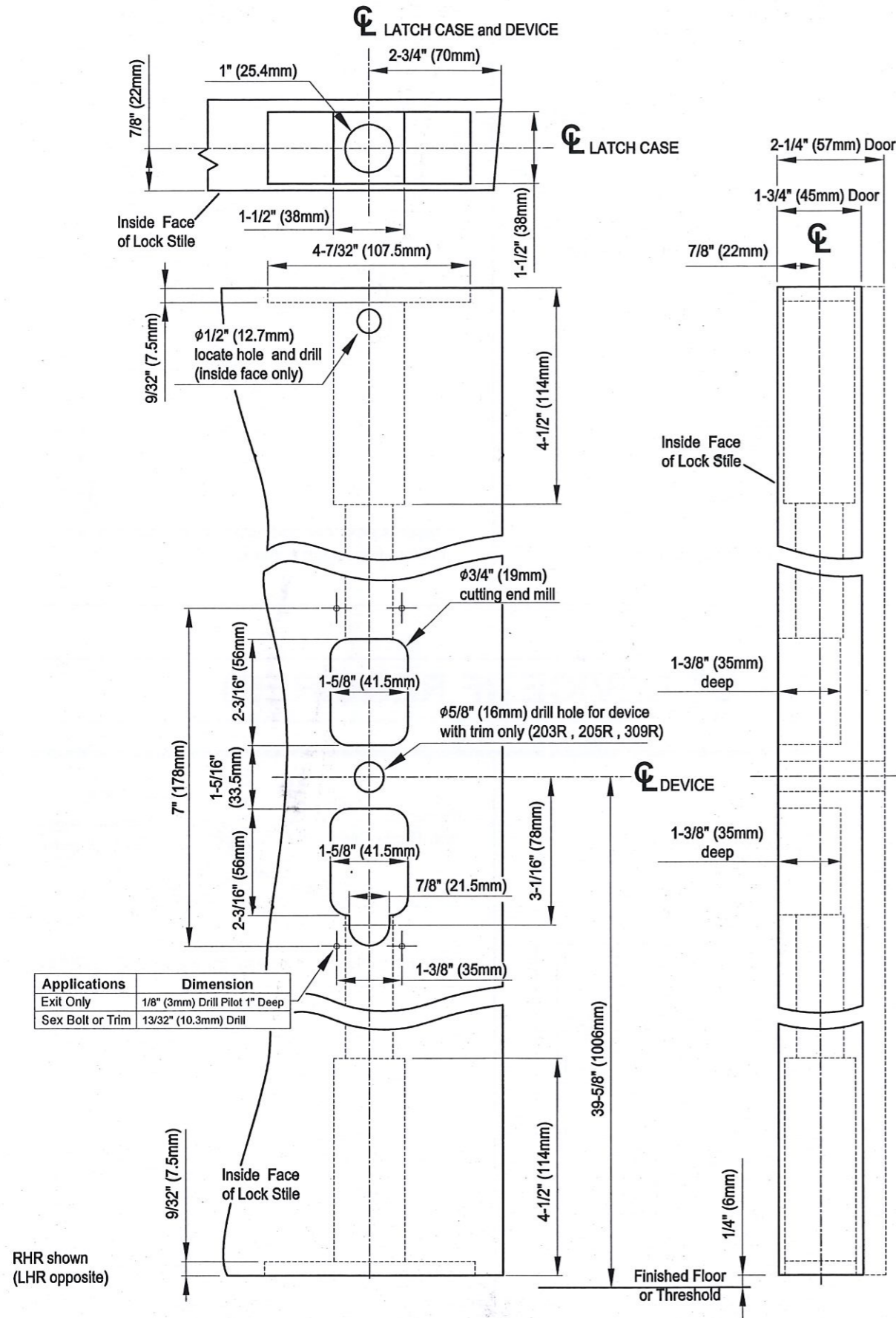
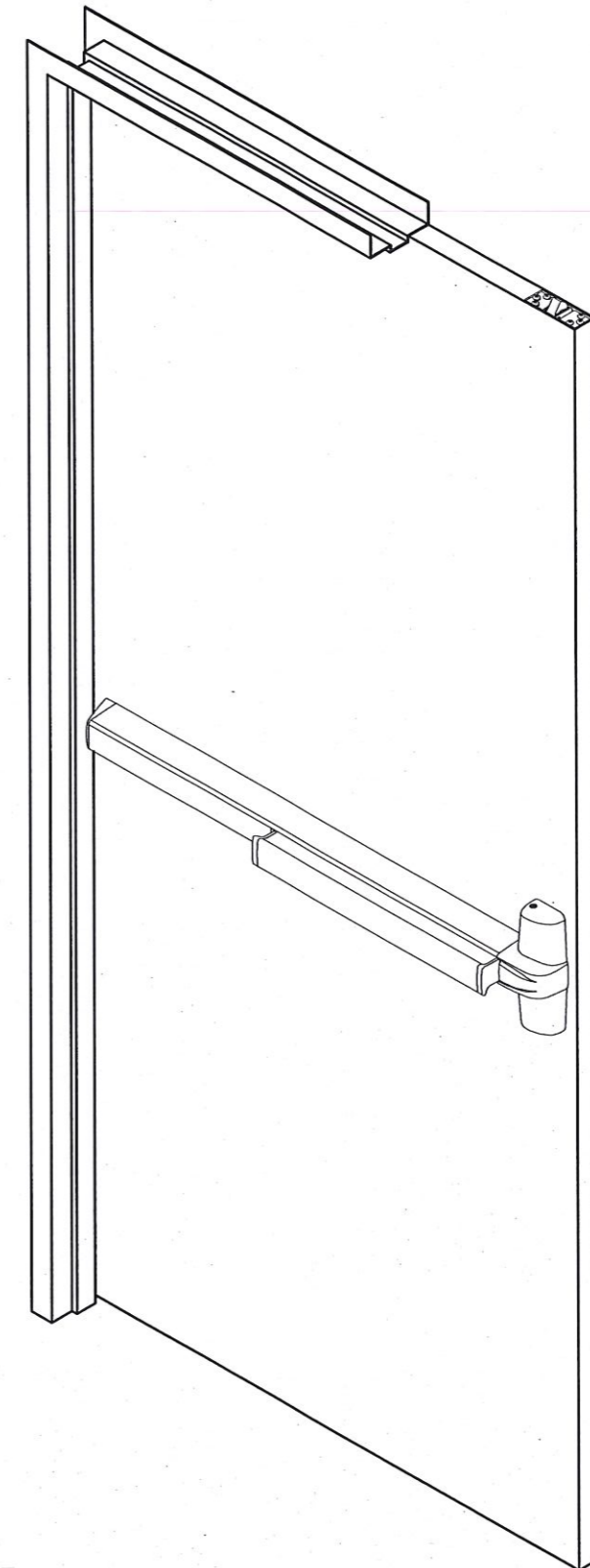


PREPARATION FOR WOOD DOOR

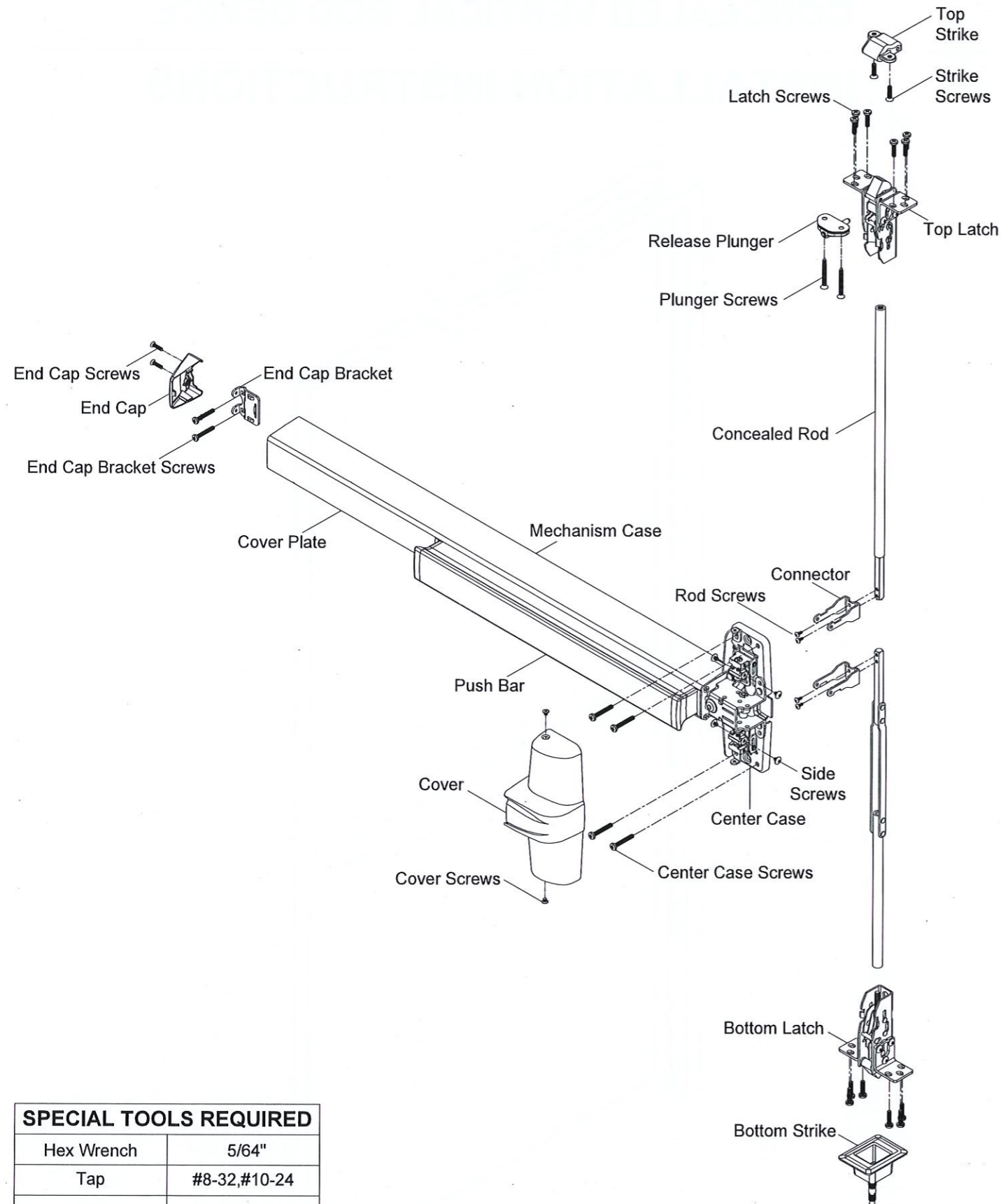
1300/F1300 SERIES CONCEALED VERTICAL ROD DEVICE INSTALLATION INSTRUCTIONS



RHR shown
(LHR opposite)



Patent No. 7,634,927 7,748,757
D623,499 7,836,738 7,887,107
and other patents pending.

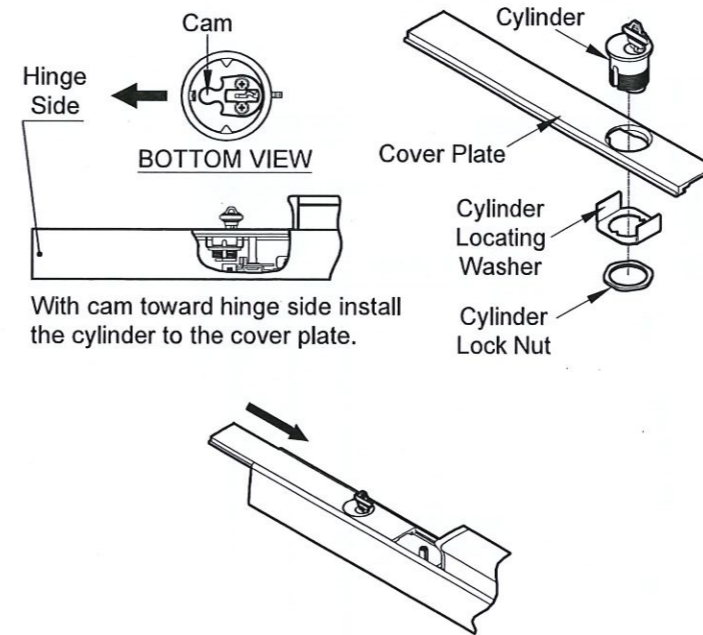


SPECIAL TOOLS REQUIRED

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)

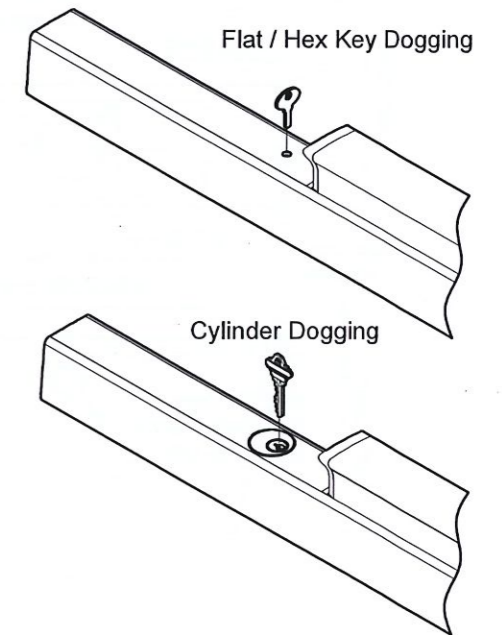
OPTIONAL DOGGING

CYLINDER DOGGING



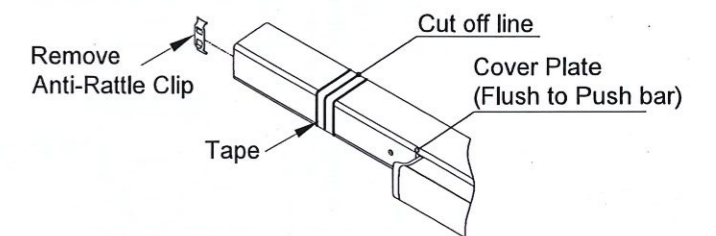
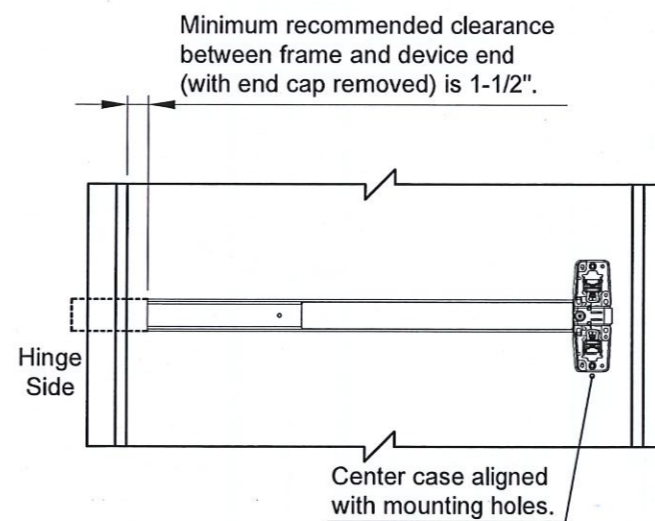
Slide cover plate in position in the mechanism case.

DOGGING CHECK

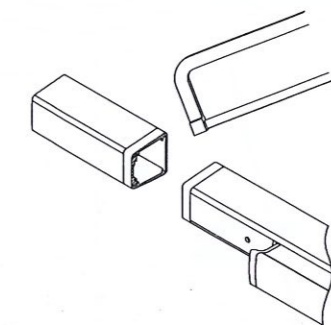


Depress push bar and turn flat / hex wrench or key one full turn for dogging check.

CUT DEVICE (IF REQUIRED)



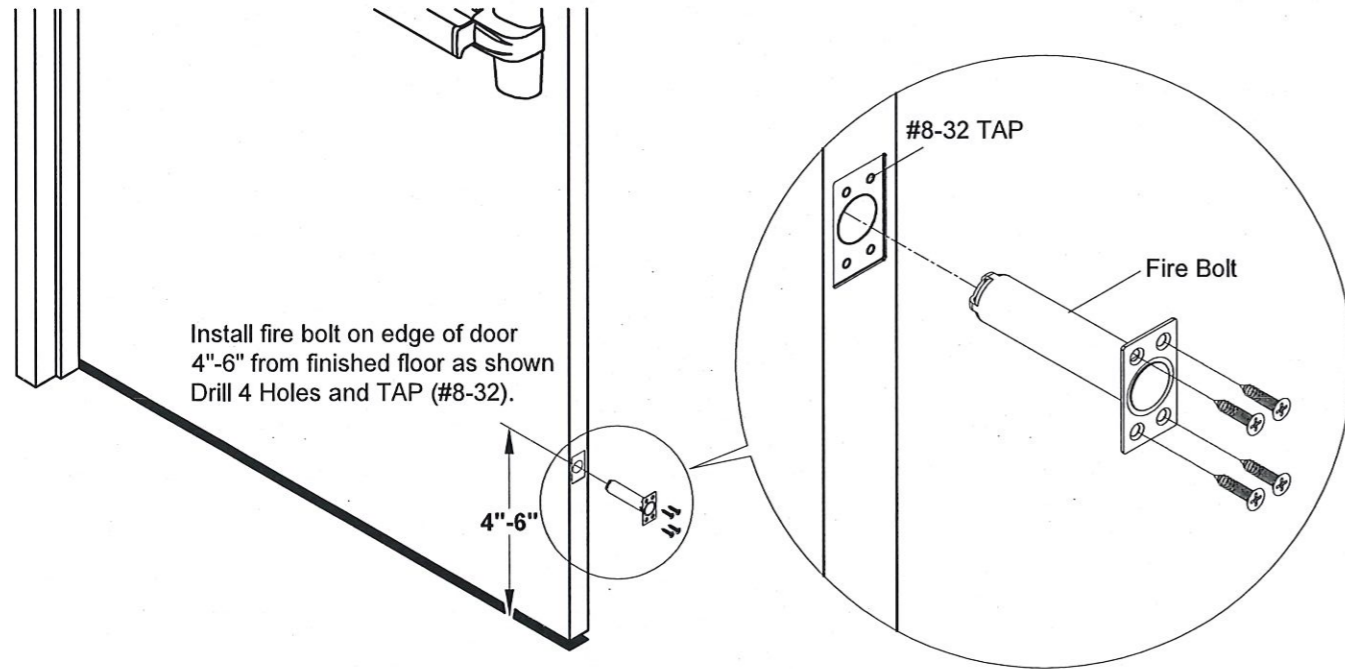
1. With anti-rattle clip removed, tape and mark area being cut.



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



INSTALL FIRE BOLT



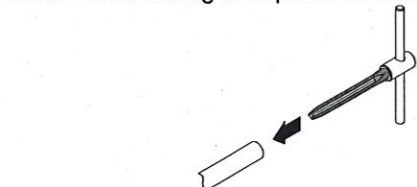
Install fire bolt on edge of door
4"-6" from finished floor as shown
Drill 4 Holes and TAP (#8-32).

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

CUT TOP ROD / EXTEND TOP ROD

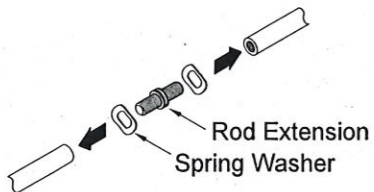
CUT TOP ROD

Step 1: Cut off the rod to fit the door's dimension . Measure from flat end.
NOTE: Rod cutting is required for doors shorter than 7'.

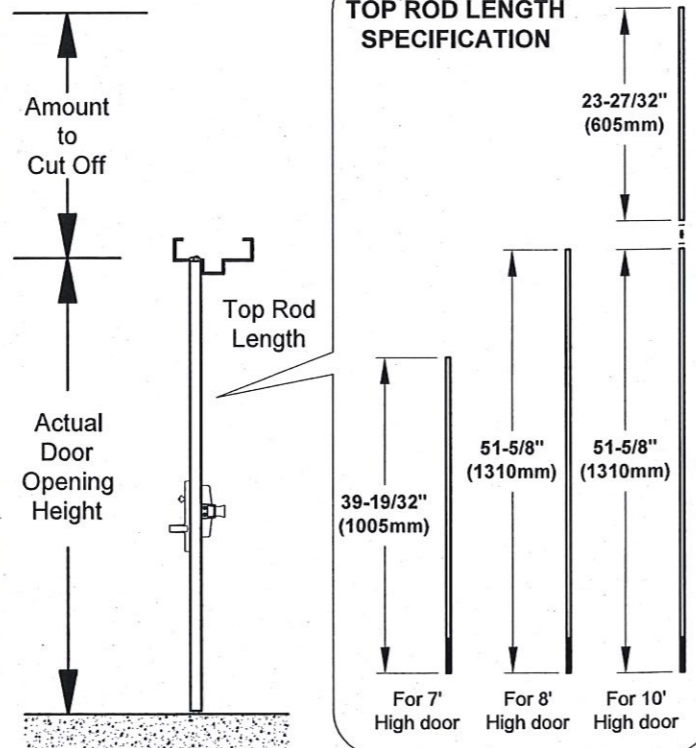


Step 2: Tap #1/4-20 ; 1" deep.

EXTEND TOP ROD



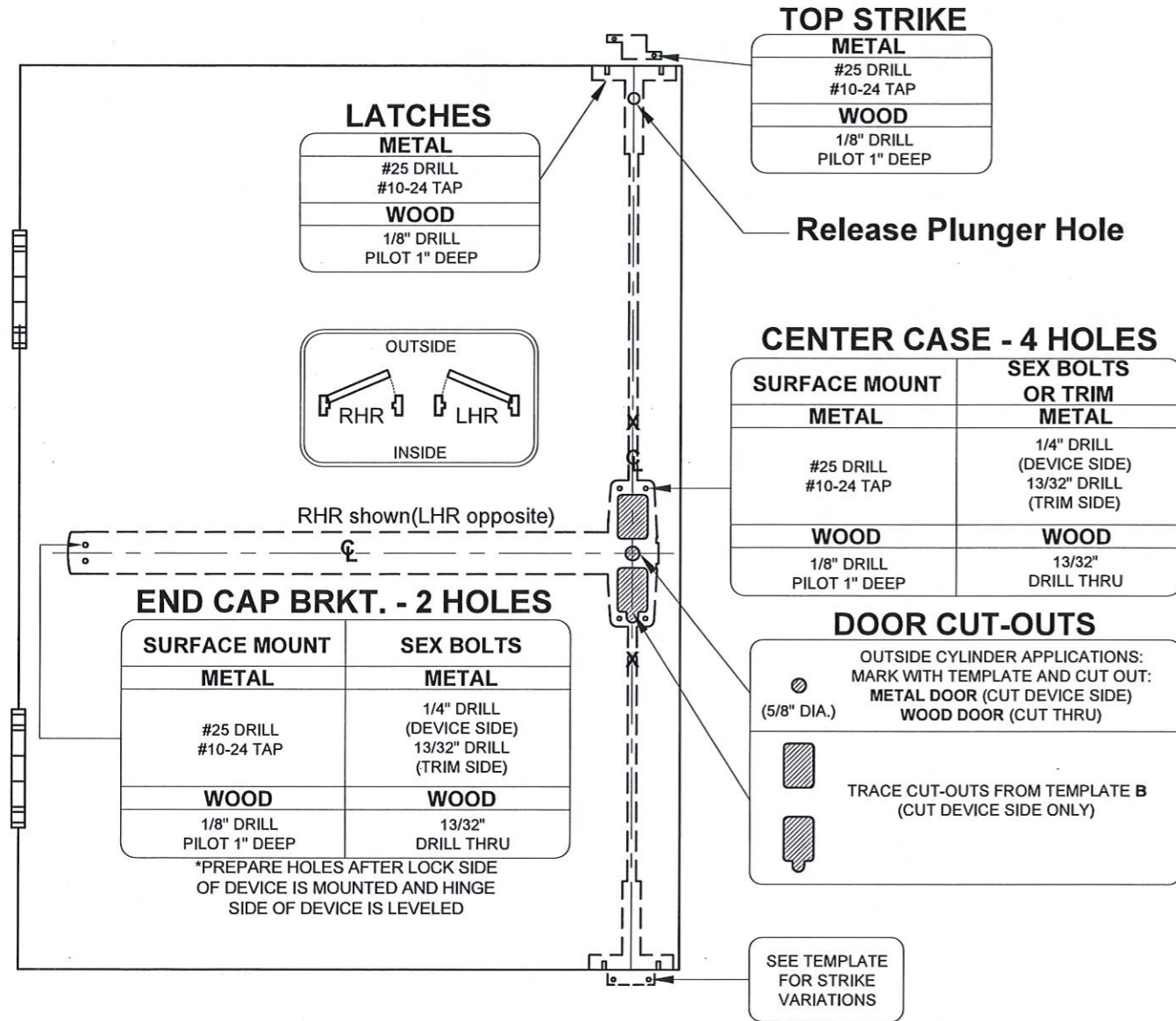
Install rod extension & spring washer to connect two(2) rods tightly.



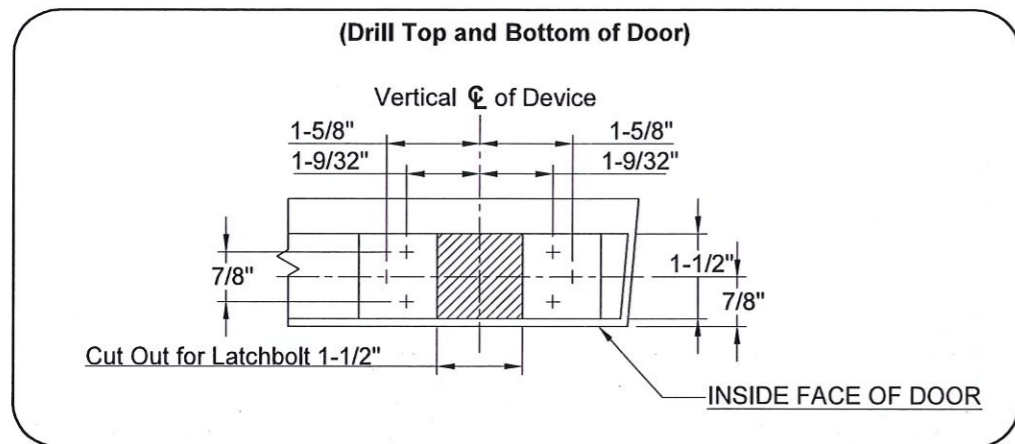
SCREW CHART

APPLICATION	METAL	SEX BOLTS	WOOD
<p>Center Case Screws</p>	<p>C</p> <p>No.10-24 x 1-11/32" 4 PCS</p>	<p>C</p> <p>No.10-24 x 1-11/32" 4 PCS</p> <p>G</p> <p>No.10-24 x 1-3/32" 4 PCS</p>	<p>A</p> <p>No.10-12 x 1-11/32" 4 PCS</p>
<p>End Cap Bracket Screws</p>	<p>C</p> <p>No.10-24 x 1-11/32" 2 PCS</p>	<p>C</p> <p>No.10-24 x 1-11/32" 2 PCS</p> <p>G</p> <p>No.10-24 x 1-3/32" 2 PCS</p>	<p>A</p> <p>No.10-12 x 1-11/32" 2 PCS</p>
<p>Plunger Screws</p>		<p>P</p> <p>No.10-24 x 1-5/8" 2 PCS</p>	
<p>216 Strike Screws</p>	<p>E</p> <p>No.10-24 x 11/16" 2 PCS</p>		<p>B</p> <p>No.10-12 x 1-11/32" 2 PCS</p>
<p>225 Strike Screws</p>	<p>E</p> <p>No.10-24 x 11/16" 2 PCS</p>		
<p>Top / Bottom Latch Screws</p>	<p>D</p> <p>No.10-24 x 25/32" 6 PCS</p>		<p>A</p> <p>No.10-12 x 1-11/32" 6 PCS</p>
<p>227 Strike Screws</p>	<p>N</p> <p>No.1/4-20 x 5/8" 1 PCS</p>	<p>O</p> <p>No.1/4-20 x 5/8" 1 PCS</p>	
<p>Side Screws</p>	<p>L</p>	<p>No.8-32 x 7/32" 4 PCS</p>	
<p>Top / Bottom Rod Screws</p>	<p>M</p>	<p>No.8-32 x 5/16" 2 PCS</p>	
<p>End Cap Screws</p>	<p>J</p>	<p>No.8-32 x 5/8" 2 PCS</p>	
<p>Cover Screws</p>	<p>I</p>	<p>No.8-32 x 5/32" 2 PCS</p>	

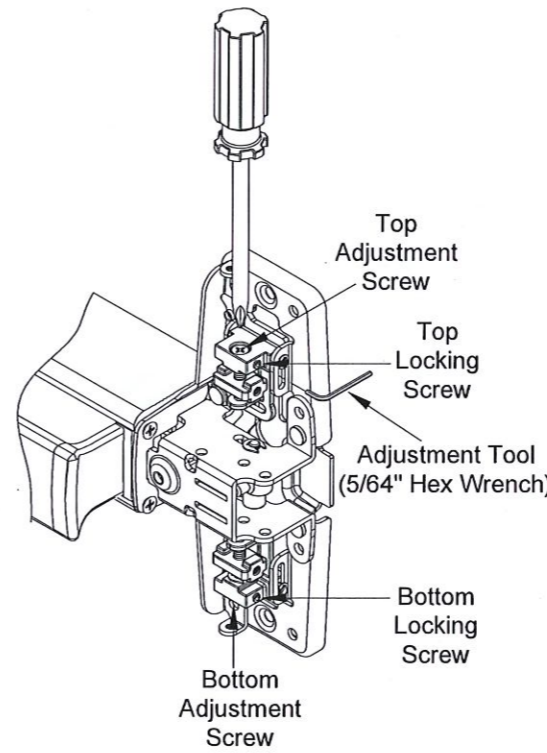
DOOR PREPARATION CHART



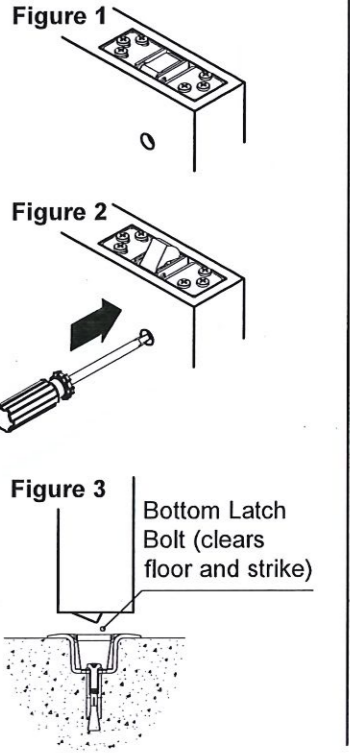
LATCH HOLE PREPARATION



14 ADJUST LATCHES AND SECURE TOP & BOTTOM LOCKING SCREWS.



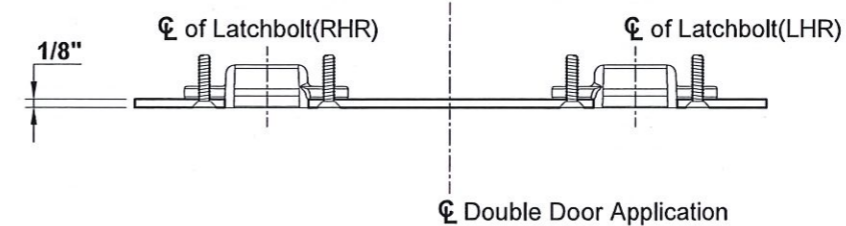
1. Depress push bar to retract the latch bolt and open the door.
2. Check top latch for HOLDBACK (Latchbolt stays retracted in latch case). See Figure 1
3. Loosen top locking screw.
4. Rotate top adjustment screw until top latchbolt is fully retracted.
5. Release top latchbolt. See Figure 2
6. Check 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. Loosen 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.



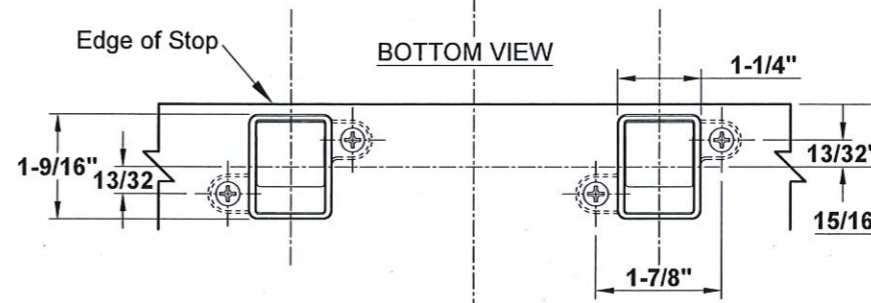
FRAME PREPARATION

216 STRIKES

FRONT VIEW

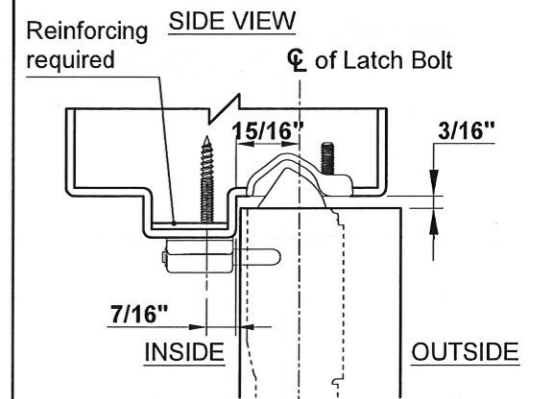


BOTTOM VIEW

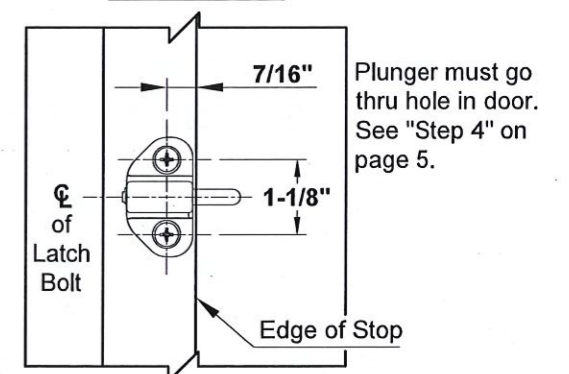


RELEASE PLUNGER

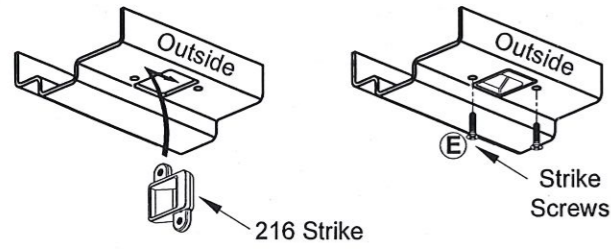
SIDE VIEW



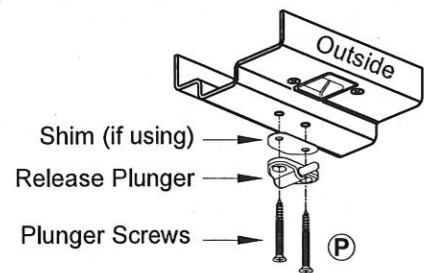
BOTTOM VIEW



12 HANG DOOR AND INSTALL TOP STRIKE & RELEASE PLUNGER.

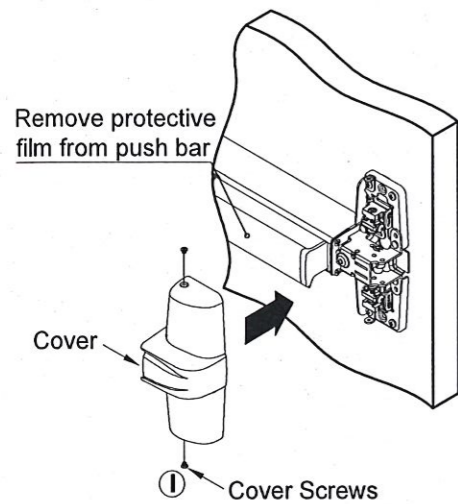


See "FRAME PREPARATION" on page 9 for cut-out and holes. After preparing, install top strike into door frame and mount two(2) strike screws.



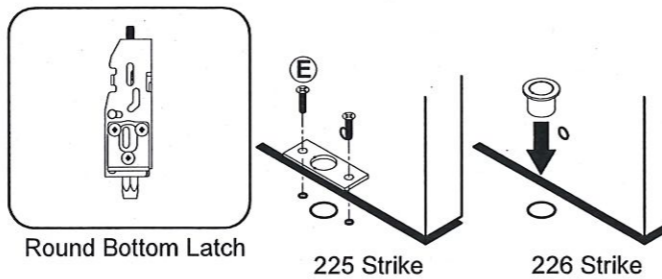
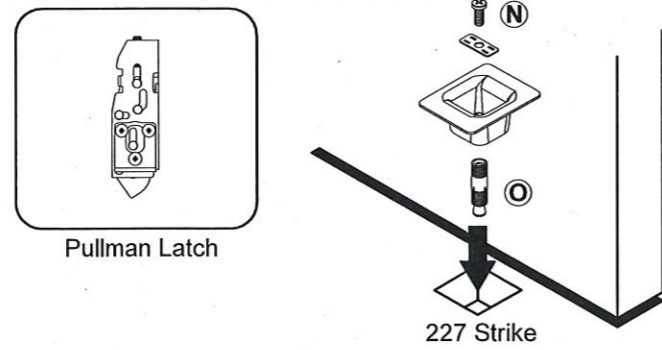
See "FRAME PREPARATION" on page 9 for holes. After preparing, install release plunger with two(2) plunger screws.

15 INSTALL CASE COVER.



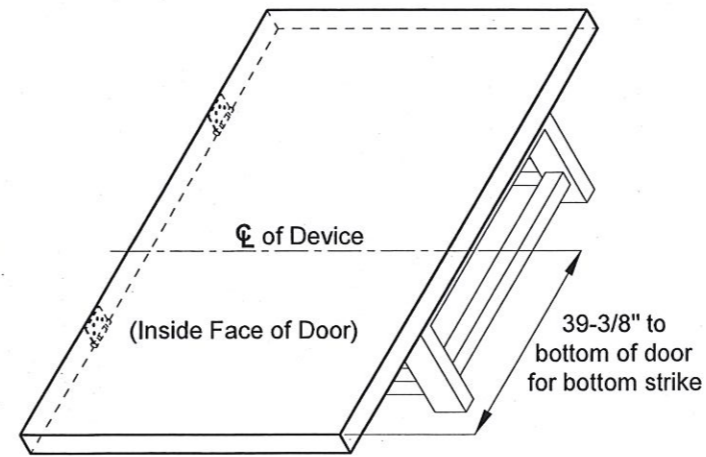
Attach cover to center case with two(2) center case screws.

13 INSTALL BOTTOM STRIKE.

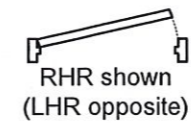


1. Mark floor for fasteners, prepare floor according to the type of strike and fastener furnished. Provide clearance in floor for bolt.
2. For threshold application: Provide hole in threshold according to type of strike and fasteners furnished.

1 DRAW HORIZONTAL DEVICE CENTER LINE(℄).

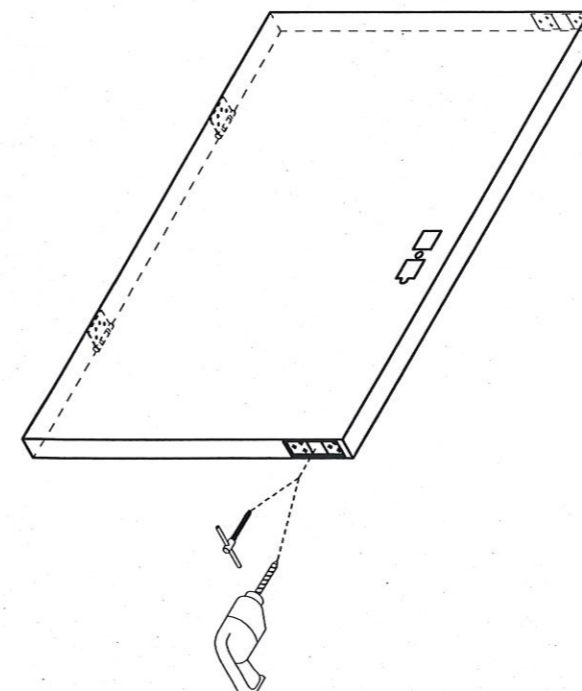


If threshold is used centerline of device must be 39-5/8" from finished floor. (bottom door gap must be 1/4")



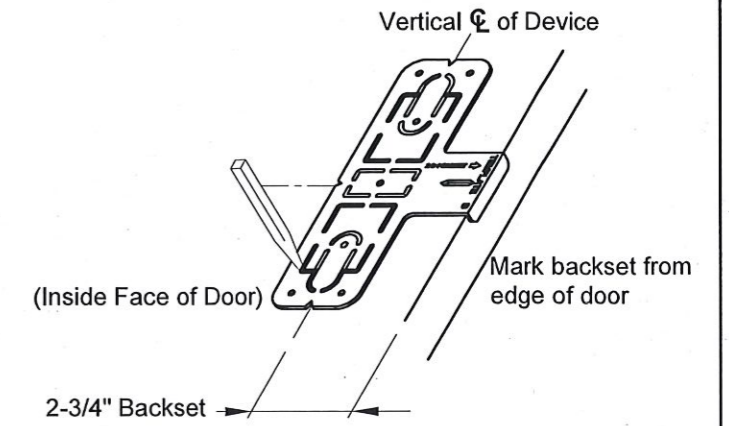
Lay door in place and draw horizontal device center line as shown.

3 PREPARE DOOR FOR DEVICE AND TOP & BOTTOM LATCH.



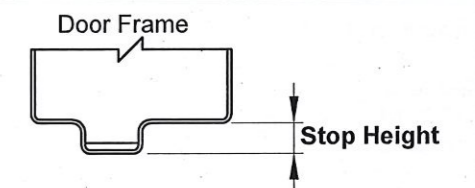
See "DOOR PREPARATION CHART" on page 4 for drill tap, and cut-out information.

2 DRAW VERTICAL ℄ & MARK BACKSET.



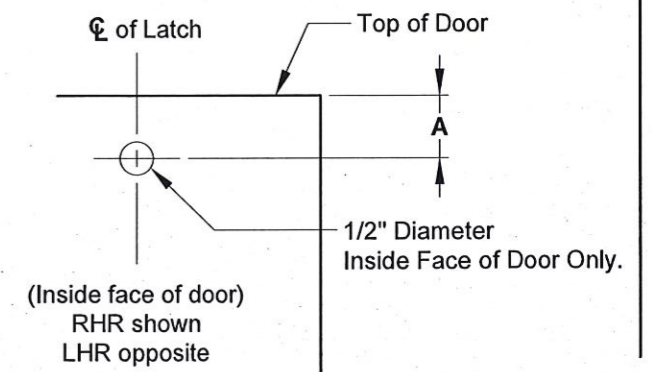
Position template as shown, then mark vertical center line for device center case.

4 DRILL TOP OF DOOR FOR RELEASE PLUNGER.



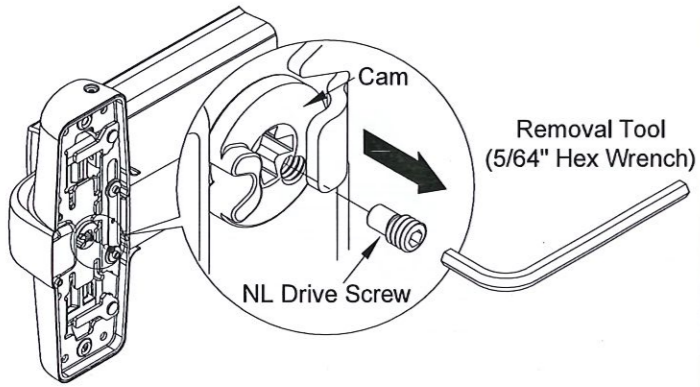
Stop Height	A
1/2"	11/16"
5/8"-Std.	13/16"
3/4"	15/16"

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



(Inside face of door)
RHR shown
LHR opposite

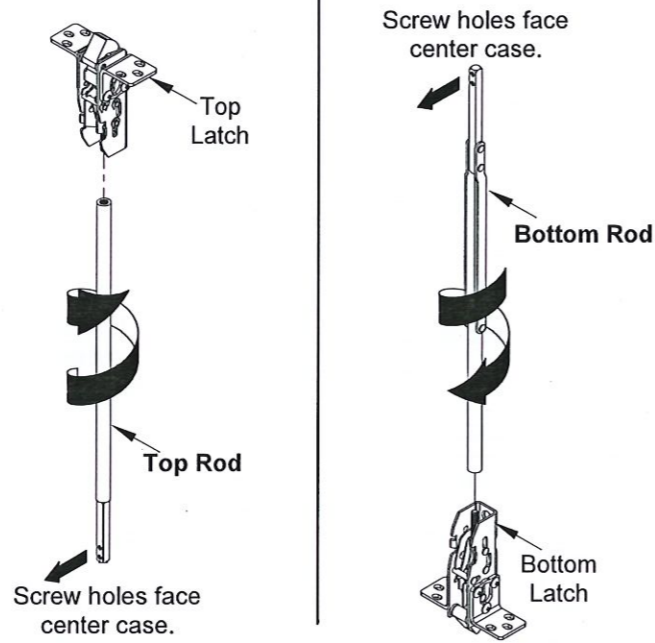
5 DETERMINE USE OF NL DRIVE SCREW.



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.

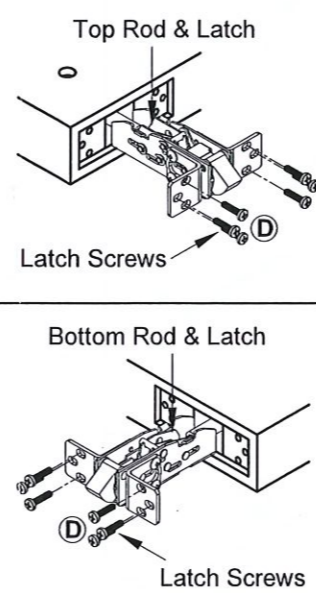
- NOTE:** 1. **DO NOT** remove NL drive screw for Pull Plate or Escutcheon with night latch cylinder.
2. **REMOVE** NL drive screw from back of center case when installing trim that has a functional lever, knob, or thumbpiece AND an outside cylinder to lock and unlock the trim.

6 ATTACH RODS TO LATCHES.

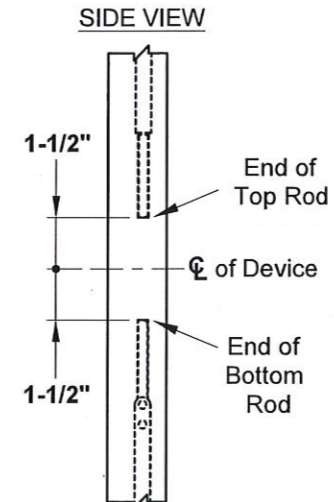


Thread rod onto latch stud until screw holes in rod bars face center case.

7 INSTALL RODS AND LATCH.

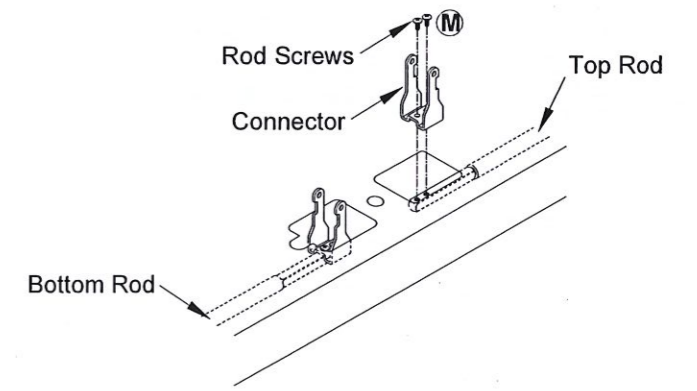


1. Install top latch and latch screws from top of door.
2. Install bottom latch and latch screws from bottom of door.
3. Fine tune the overall length by threading latch in or out of rod.

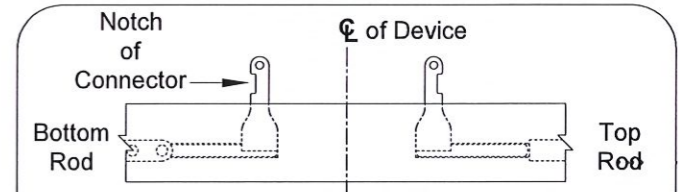


NOTE: Cut top rod if necessary; cut end of rod and tap. See "CUT TOP ROD / EXTEND TOP ROD" on page 10.

8 INSTALL CONNECTORS.



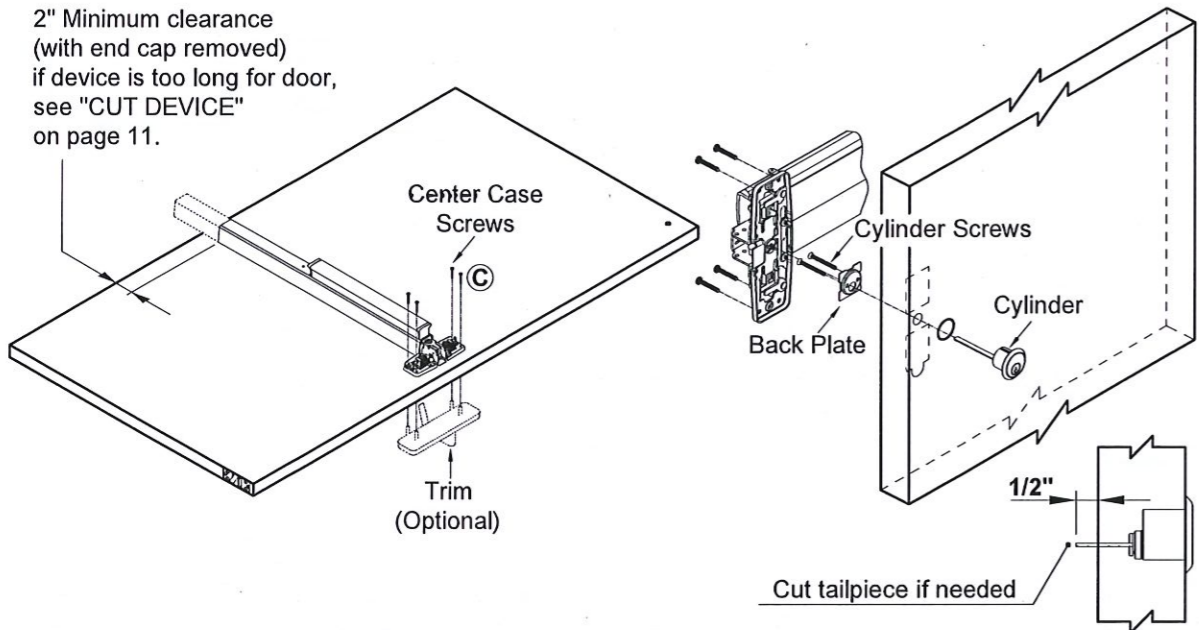
After adjusting the lengths, install connectors on both concealed rods with rod screws.



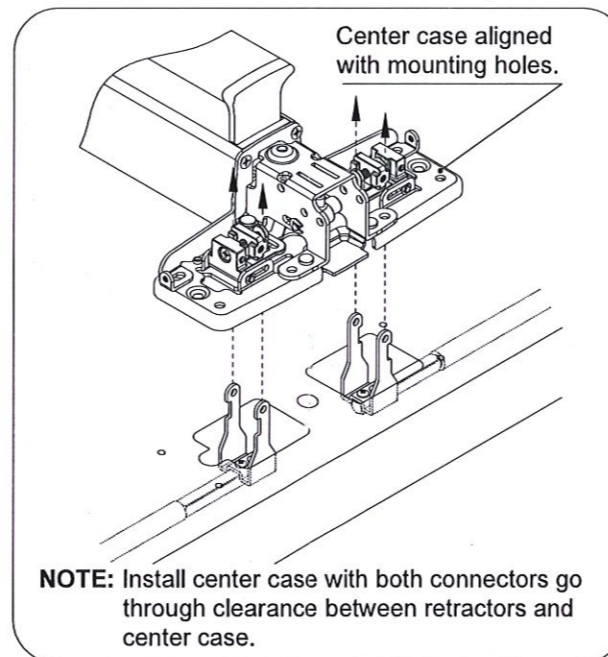
NOTE: Locate notch of connector in top rod toward top of door, and notch of connector in bottom rod toward bottom of door.

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

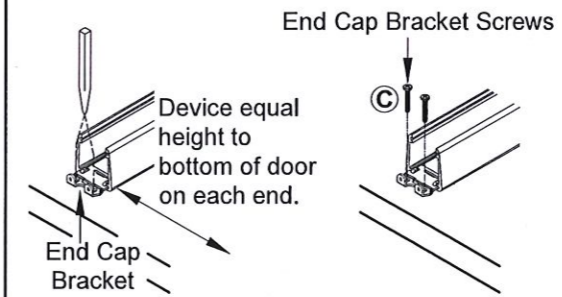
2" Minimum clearance (with end cap removed) if device is too long for door, see "CUT DEVICE" on page 11.



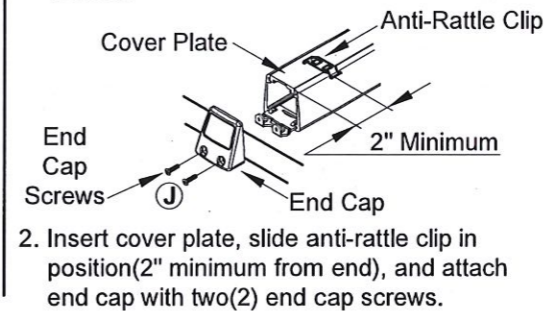
1. **DEVICE WITH TRIM** - See "Trim Instructions".
2. **CYLINDER ONLY** - Install cylinder with cylinder back plate as shown. Make sure the tailpiece is extending 1/2" from the inside face of door. Insert tailpiece into cam in the center case and mount it to the door with four(4) center case screws.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



10 INSTALL MOUNTING BRACKET AND END CAP.

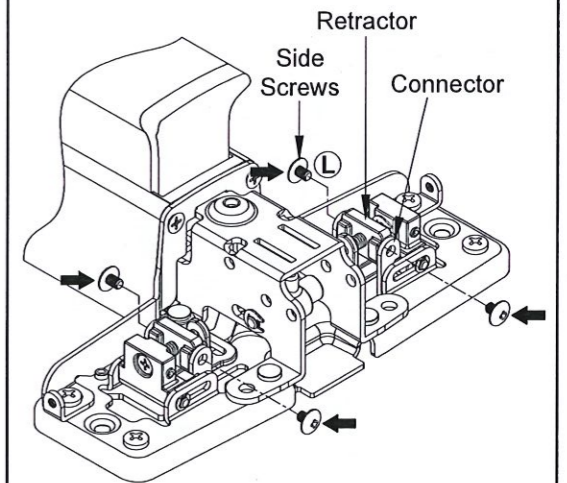


1. Remove cover plate, insert end cap bracket into push bar assembly against mechanism case. Level device, mark and drill two(2) holes for Bracket Screws. Fasten end cap bracket screws to door.



2. Insert cover plate, slide anti-rattle clip in position (2" minimum from end), and attach end cap with two(2) end cap screws.

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 have side screws installed.