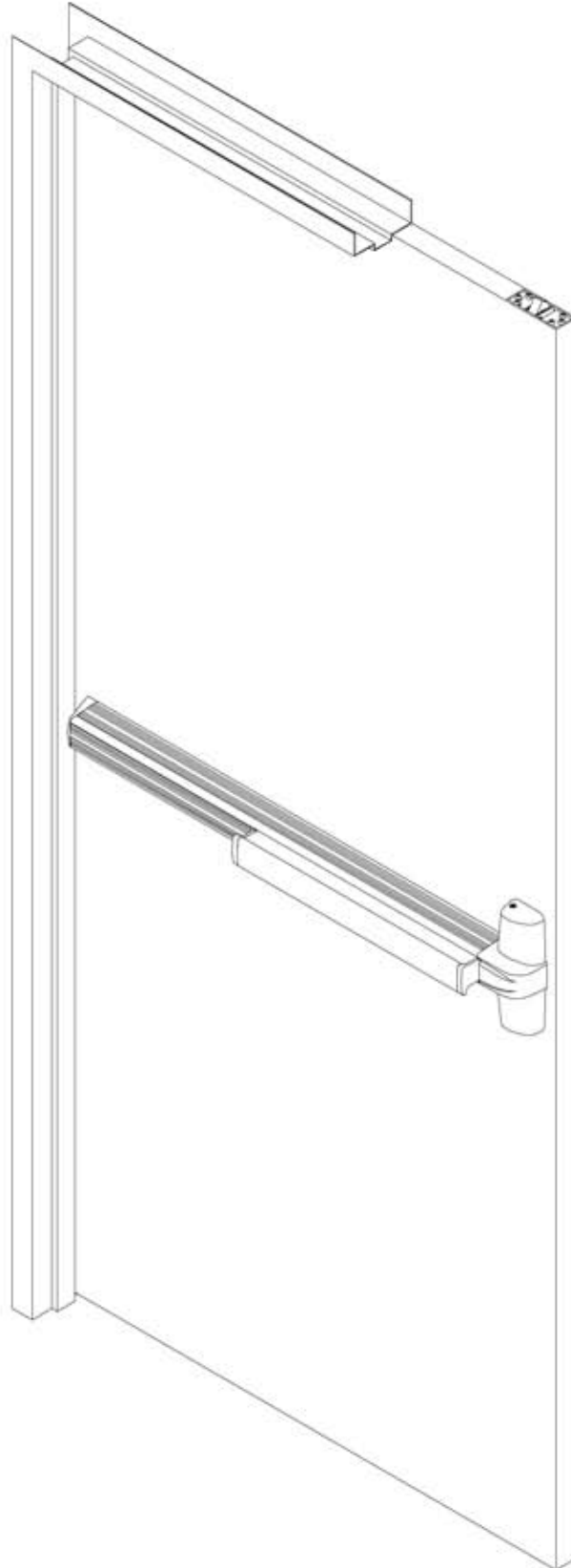
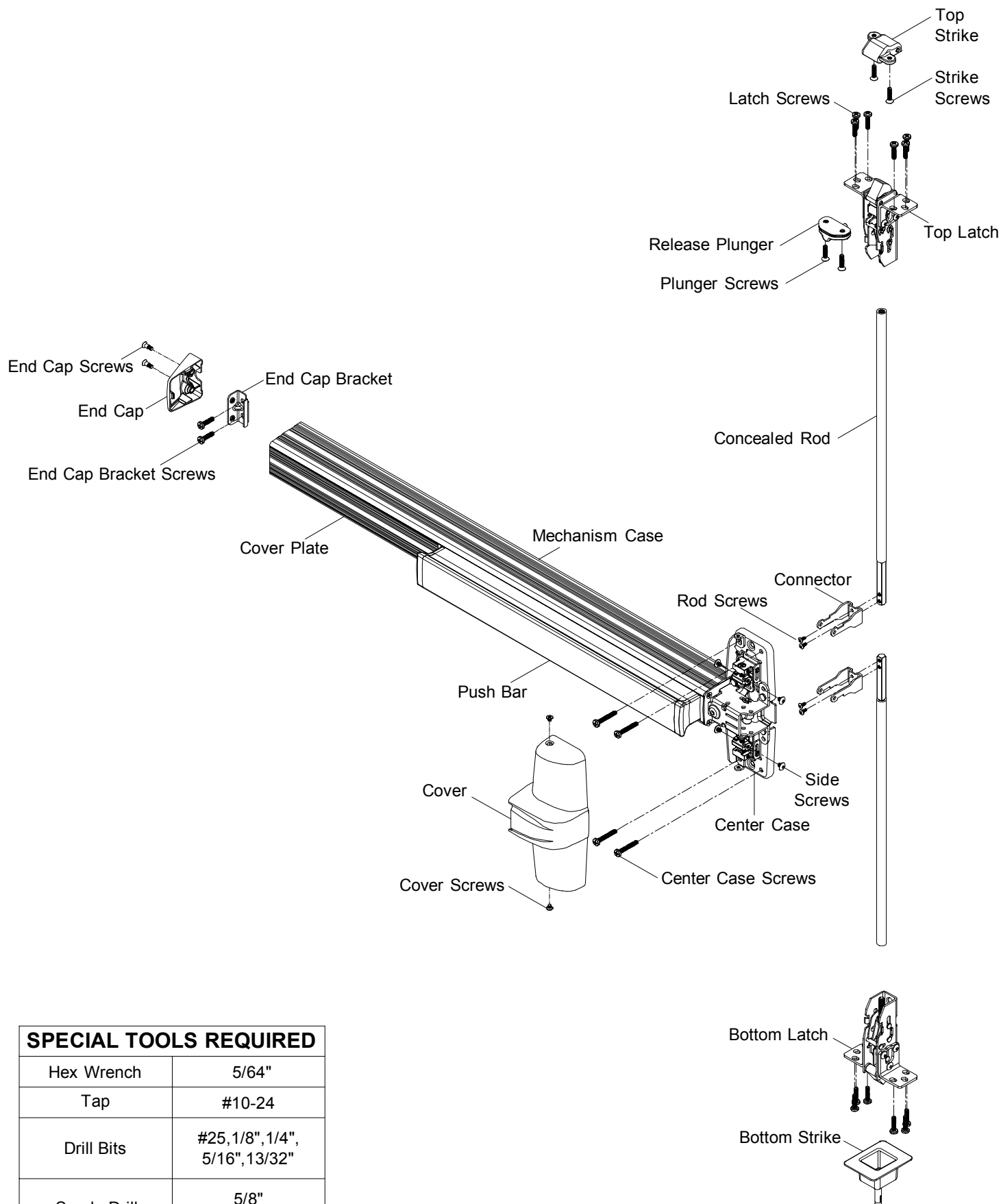


1300/1300F SERIES CONCEALED VERTICAL ROD DEVICE

INSTALLATION INSTRUCTIONS



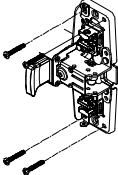
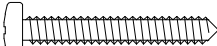
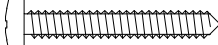
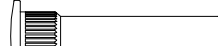

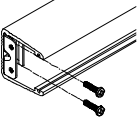
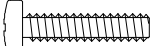
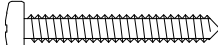
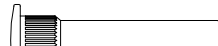
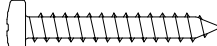
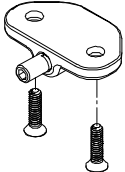

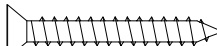



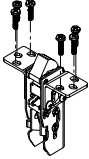
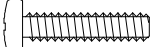
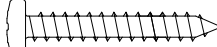
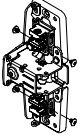

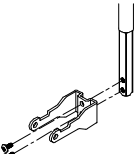

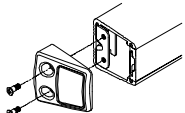

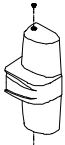

1300 SERIES CONCEALED VERTICAL ROD DEVICE



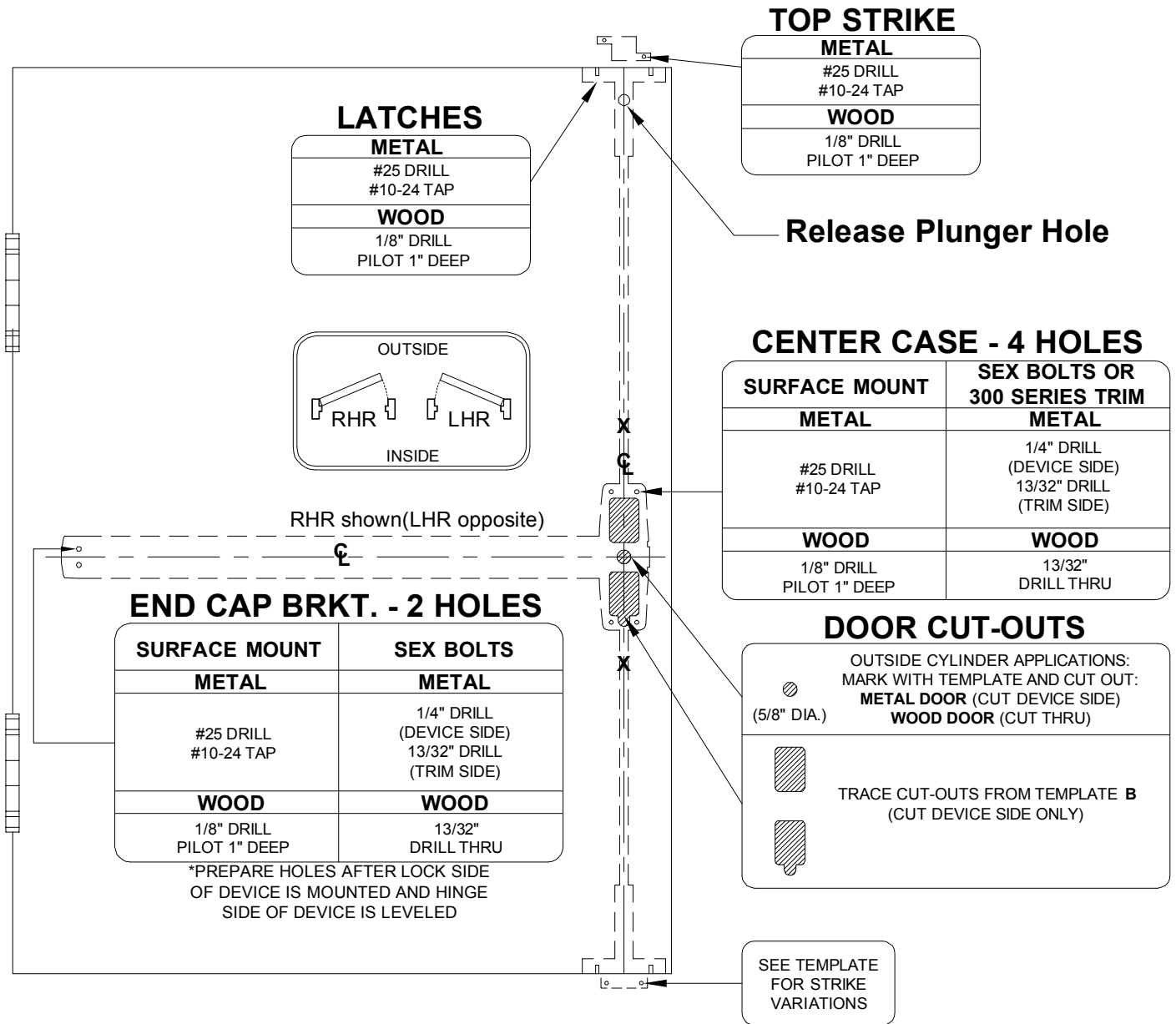
SPECIAL TOOLS REQUIRED

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

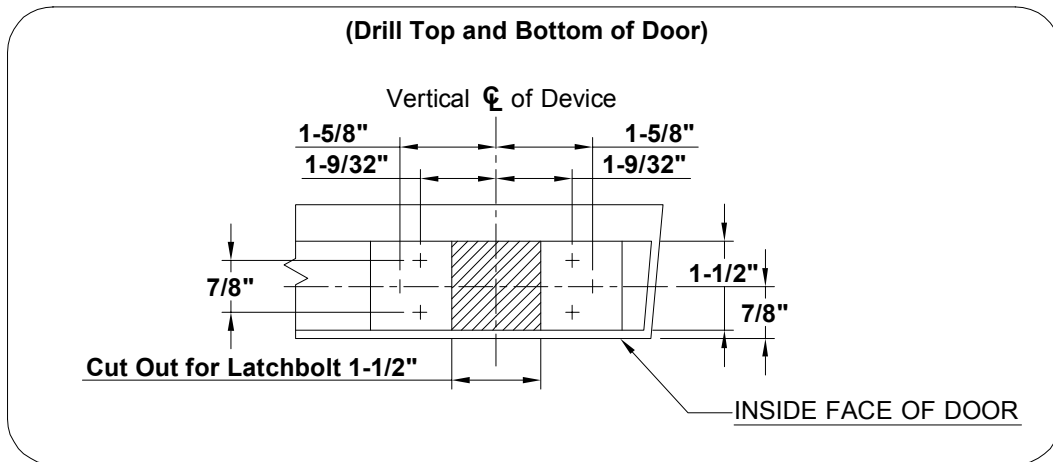
SCREW CHART

APPLICATION	METAL	METAL / WOOD	WOOD
 Center Case Screws	(C)  No. 10-24 x 1-11/32"	(C)  No. 10-24 x 1-11/32" (G)  No. 10-24 x 1-3/32"	(A)  No. 10-12 x 1-11/32"
 End Cap Bracket Screws	(D)  No. 10-24 x 25/32"	(C)  No. 10-24 x 1-11/32" (G)  No. 10-24 x 1-3/32"	(A)  No. 10-12 x 1-11/32"
 Plunger Screws	(E)  No. 10-24 x 11/16"		(B)  No. 10-12 x 1-11/32"
 Strike Screws	(E)  No. 10-24 x 11/16"		(B)  No. 10-12 x 1-11/32"
 Latch Screws	(D)  No. 10-24 x 25/32"		(A)  No. 10-12 x 1-11/32"
 Side Screws	(L)	 No. 8-32 x 7/32"	
 Rod Screws		 No. 8-32 x 5/16"	
 End Cap Screws	(J)	 No. 8-32 x 1/4"	
 Cover Screws	(I)	 No. 8-32 x 5/32"	

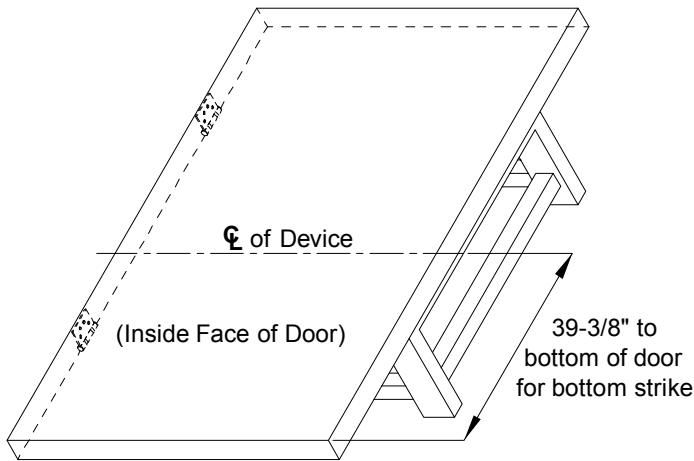
DOOR PREPARATION CHART



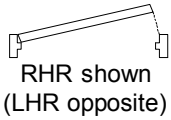
LATCH HOLE PREPARATION



1 DRAW HORIZONTAL DEVICE CENTER LINE(☿).

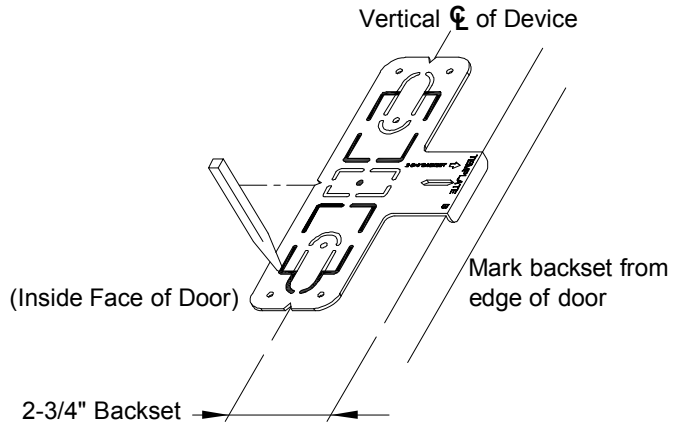


If threshold is used centerline of device must be 39-5/8" from finished floor. (bottom door gap must be 1/4")



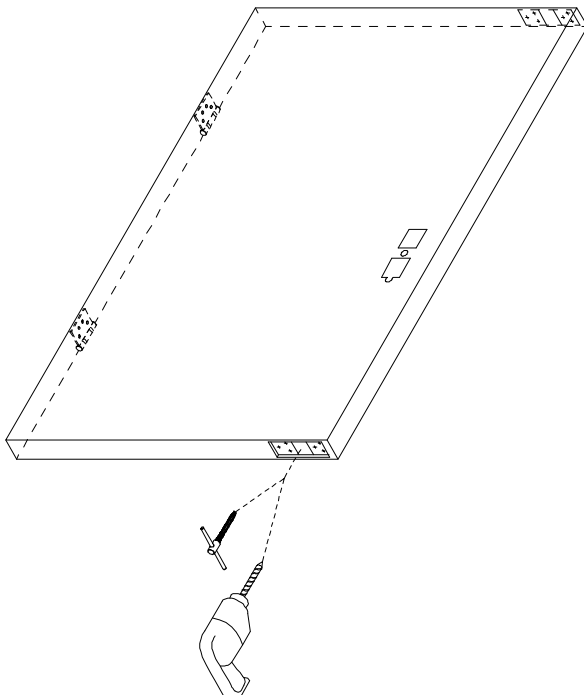
RHR shown (LHR opposite)
Lay door in place and draw horizontal device center line as shown.

2 DRAW VERTICAL ☿ & MARK BACKSET.



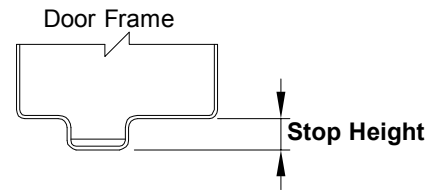
Position template as shown, then mark vertical center line for device center case.

3 PREPARE DOOR FOR DEVICE AND TOP & BOTTOM LATCH.



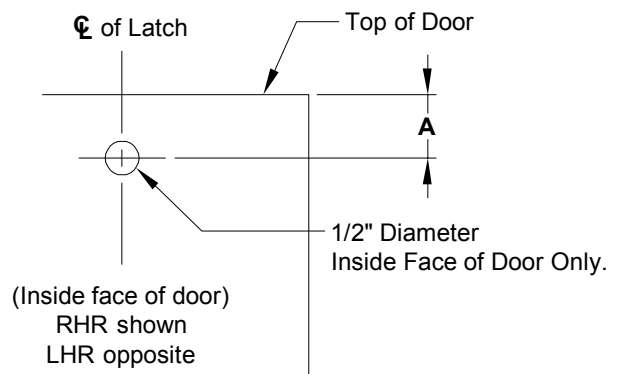
See "DOOR PREPARATION CHART" on page 4 for drill tap, and cut-out information.

4 DRILL TOP OF DOOR FOR RELEASE PLUNGER.

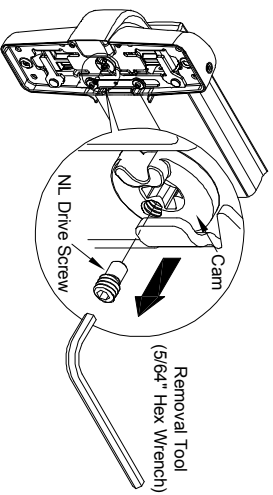


Stop Height	A
1/2"	11/16"
5/8"-Std.	13/16"
3/4"	15/16"

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



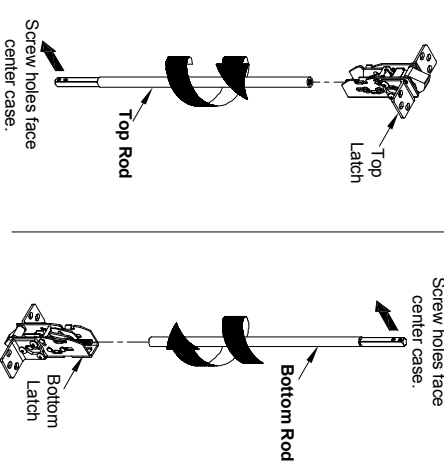
5 DETERMINE USE OF NL DRIVE SCREW.



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.

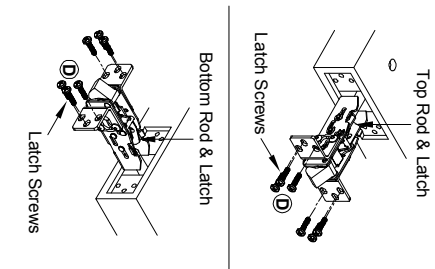
- NOTE: 1. DO NOT** remove NL drive screw for Pull Plate or Escutcheon with night latch cylinder.
- 2. REMOVE** NL drive screw from back of Pull Plate or knob, or thumb piece AND an outside cylinder to lock and unlock the trim.

6 ATTACH RODS TO LATCHES.

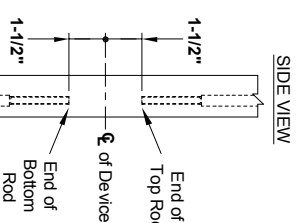


Thread rod onto latch stud until screw holes in rod bars face center case.

7 INSTALL RODS AND LATCH.

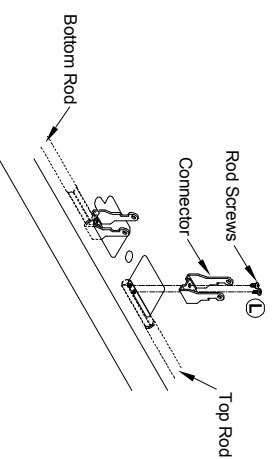


1. Install top latch and latch screws from top of door.
2. Install bottom latch and latch screws from bottom of door.
3. Fine tune the overall length by threading latch in or out of rod.

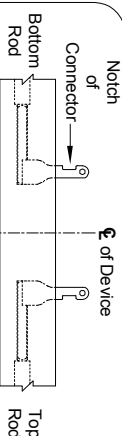


NOTE: Cut top rod if necessary; cut end of rod and tap. See "CUT TOP ROD / EXTEND TOP ROD" on page 10.

8 INSTALL CONNECTORS.



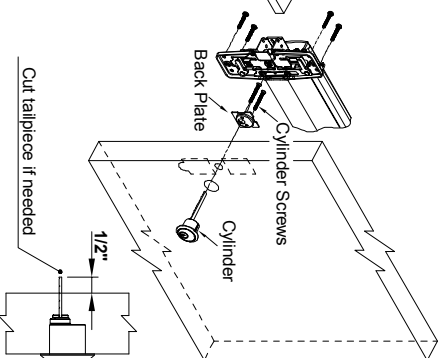
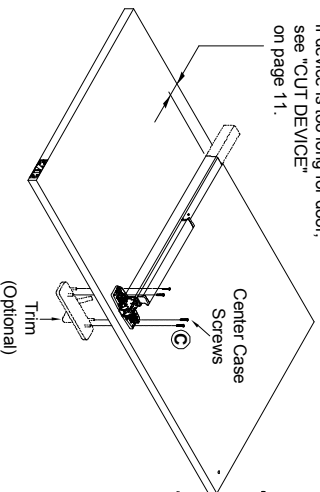
After adjusting the lengths, install connectors on both concealed rods with rod screws.



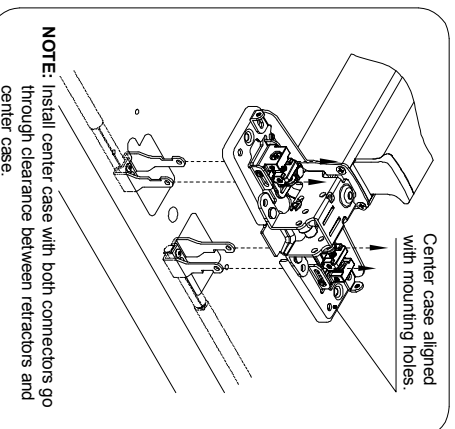
NOTE: Locate notch of connector in top rod toward top of door, and notch of connector in bottom rod toward bottom of door.

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

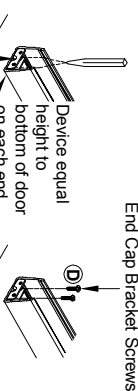
- 2\"/>**



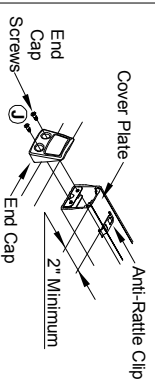
1. **DEVICE WITH TRIM** - See "Trim Instructions".
2. **CYLINDER ONLY** - Install cylinder with cylinder back plate as shown. Make sure the tailpiece is extending 1/2" from the inside face of door. Insert tailpiece into cam in the center case and mount it to the door with four(4) center case screws.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



10 INSTALL MOUNTING BRACKET AND END CAP.

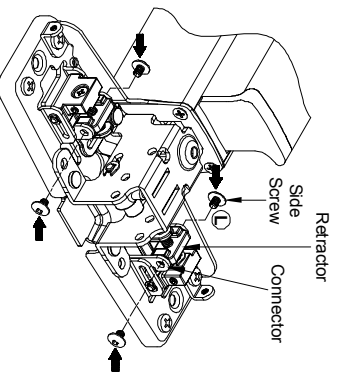


1. Remove cover plate. Insert end cap bracket into push bar assembly against mechanism case. Make sure level of device, mark and drill two(2) holes for #10 shear metal screws or #10-24 machine screws. Fasten end cap bracket screws to door.



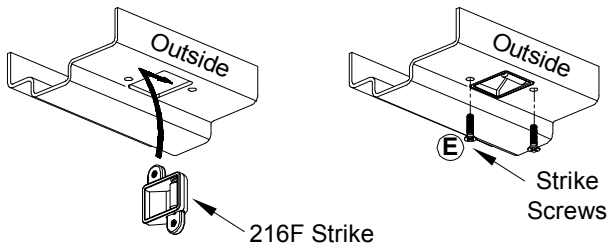
2. Insert cover plate, slide anti-rattle clip in position, 2" minimum from end), and attach end cap with two(2) end cap screws.

11 INSTALL SIDE SCREWS.

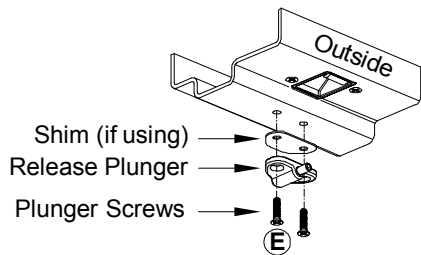


1. Make sure both latches are extended.
 2. Apply both sides "side screws" through round holes in connector with threaded holes in retractors and tighten.
- NOTE:** Both sides of connectors and retractors must install side screws.

12 HANG DOOR AND INSTALL TOP STRIKE & RELEASE PLUNGER.

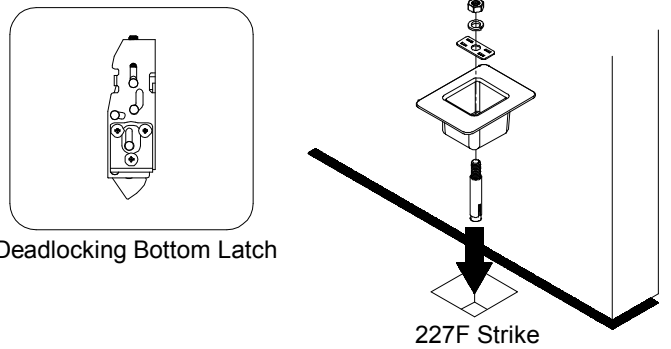


See "FRAME PREPARATION" on page 9 for cut-out and holes. After preparing, install top strike into door frame and mount two(2) strike screws.



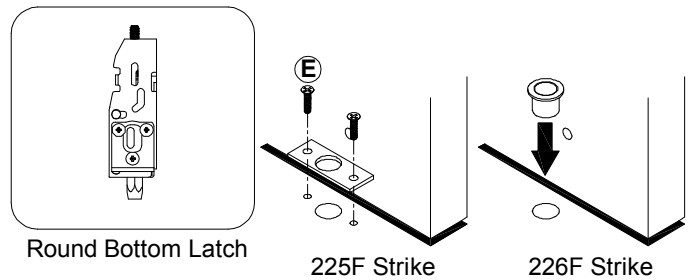
See "FRAME PREPARATION" on page 9 for holes. After preparing, install release plunger with two(2) plunger screws.

13 INSTALL BOTTOM STRIKE.



Deadlocking Bottom Latch

227F Strike



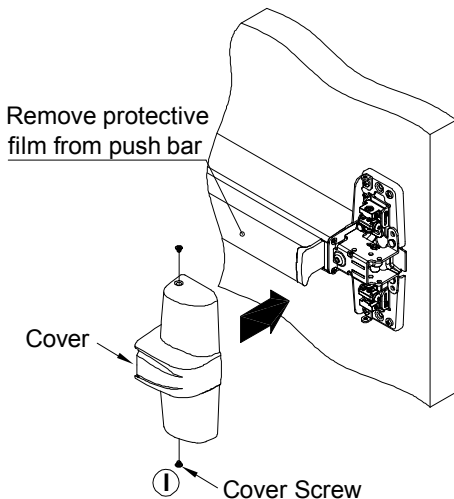
Round Bottom Latch

225F Strike

226F Strike

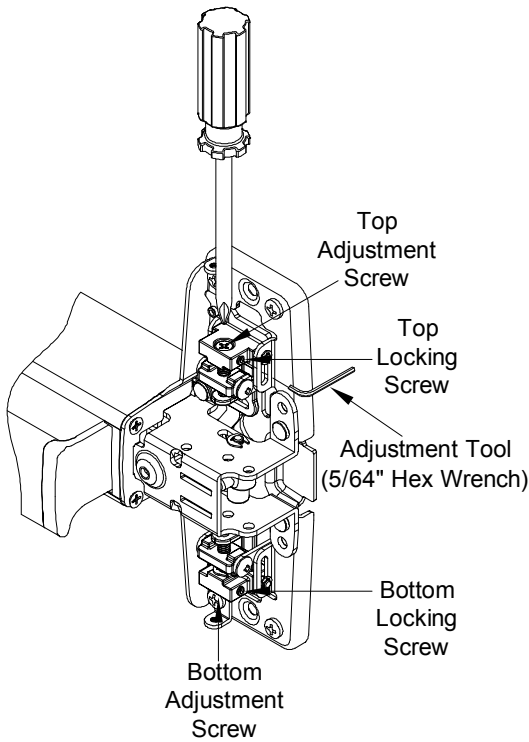
1. Mark floor for fasteners, prepare floor according to the type of strike and fastener furnished. Provide clearance in floor for bolt.
2. For threshold application: Provide hole in threshold according to type of strike and fasteners furnished.

15 INSTALL CASE COVER.

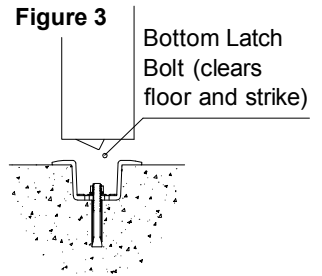
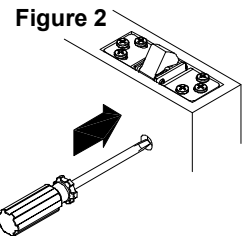
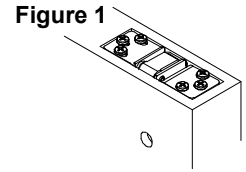


Attach cover to center case with two(2) center case screws.

14 ADJUST LATCHES AND SECURE TOP & BOTTOM LOCKING SCREWS.



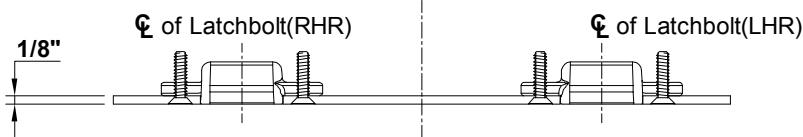
1. Depress push bar to retract the latch bolt and open the door.
2. Check top latch for HOLDBACK (Latchbolt stays retracted in latch case). **See Figure 1**
3. Loose top locking screw.
4. Rotate top adjustment screw until top latchbolt is fully retracted.
5. Release top latchbolt. **See Figure 2**
6.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

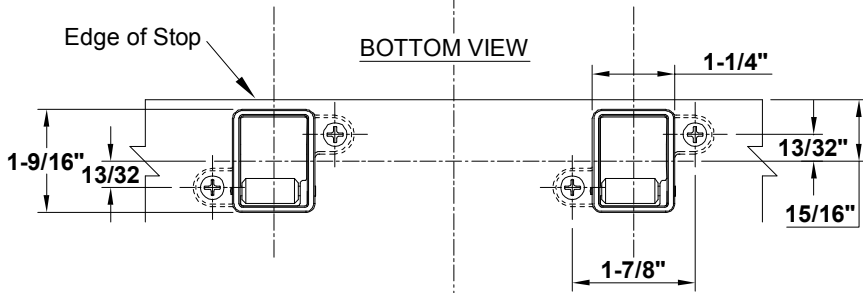
216F STRIKES

FRONT VIEW



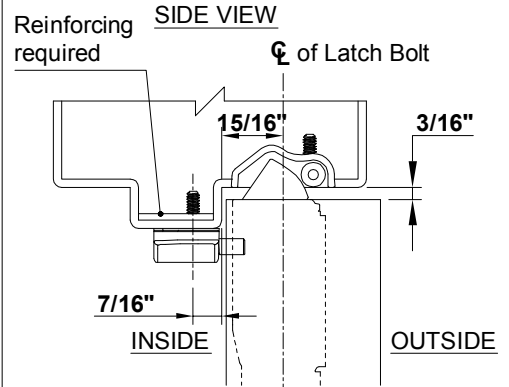
☉ Double Door Application

BOTTOM VIEW

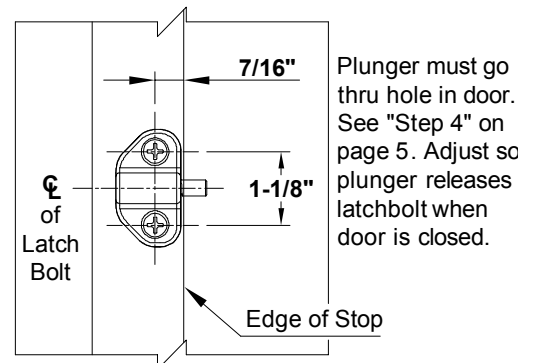


RELEASE PLUNGER

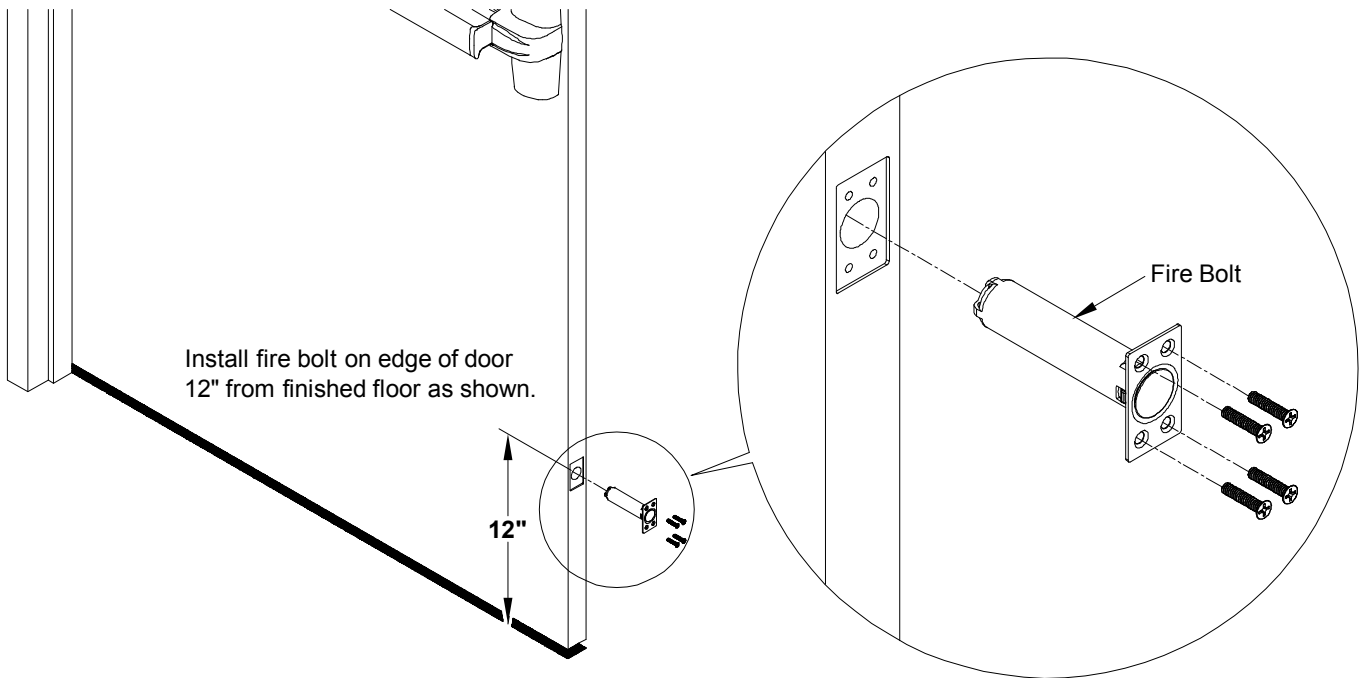
SIDE VIEW



BOTTOM VIEW



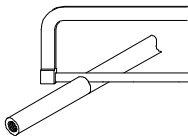
INSTALL FIRE BOLT



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

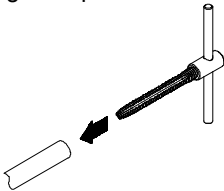
CUT TOP ROD / EXTEND TOP ROD

CUT TOP ROD



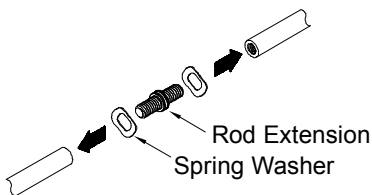
Step 1: Make sure the flat side of rod, and measure amount to cut off rod.

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

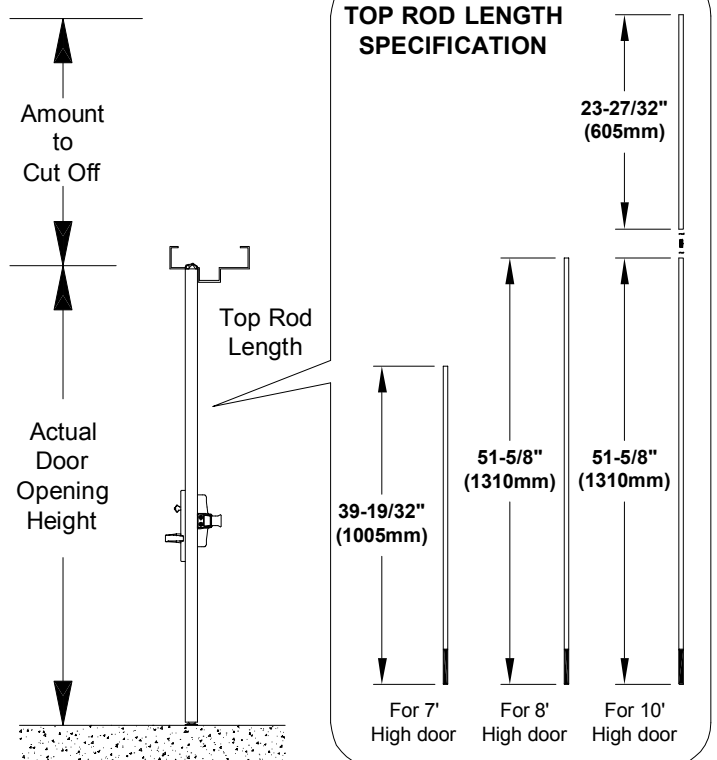


Step 2: Tap #1/4-20 ; 1" deep.

EXTEND TOP ROD

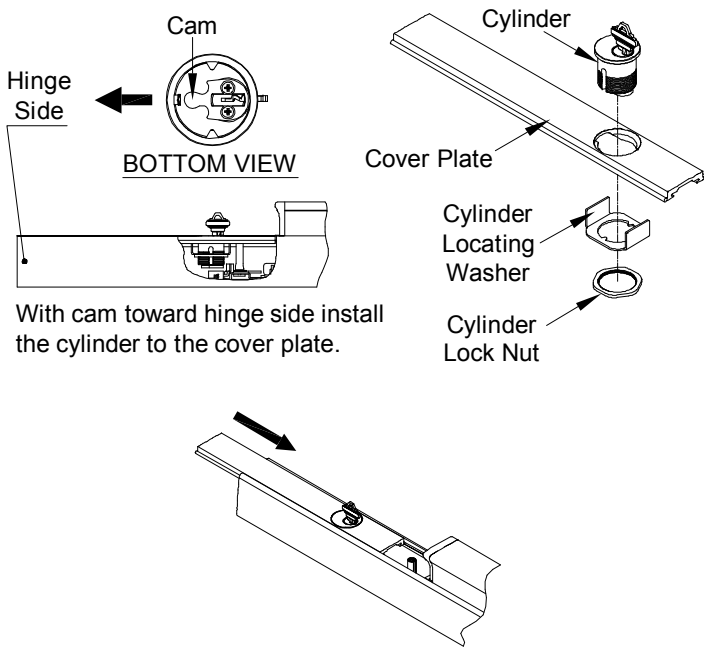


Install rod extension & spring washer to connect two(2) rods tightly.



OPTIONAL DOGGING

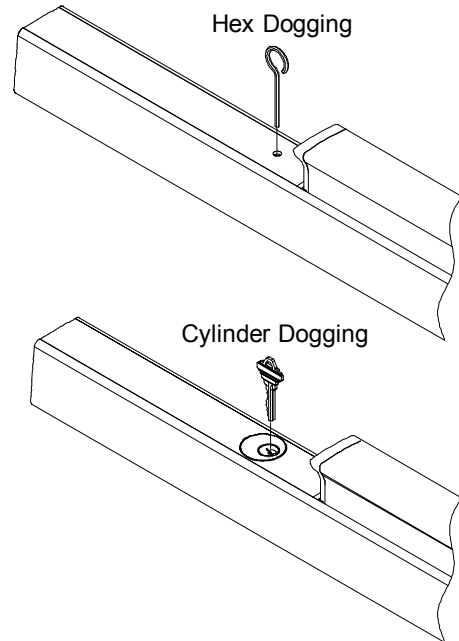
CYLINDER DOGGING



With cam toward hinge side install the cylinder to the cover plate.

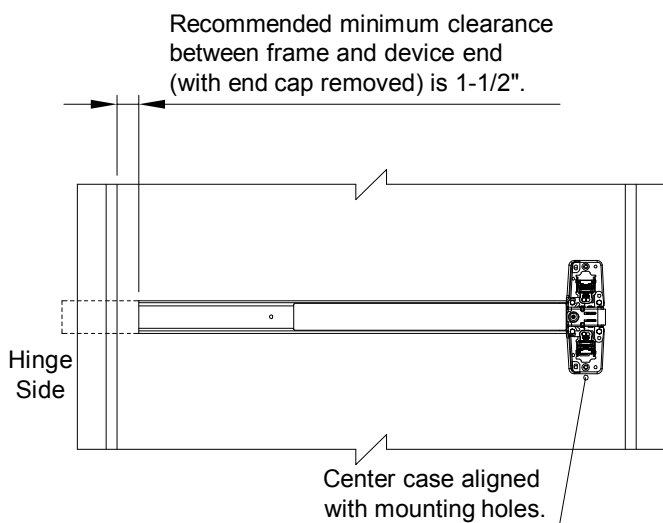
Slide cover plate in position in the mechanism case.

DOGGING CHECK



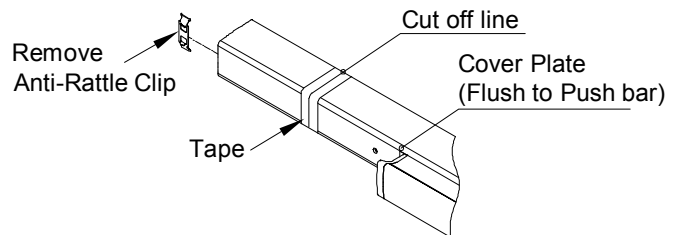
Depress push bar and turn hex wrench or key one full turn for dogging check.

CUT DEVICE (IF REQUIRED)

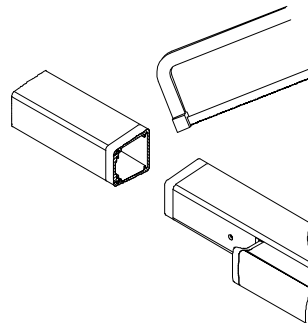


Recommended minimum clearance between frame and device end (with end cap removed) is 1-1/2".

Center case aligned with mounting holes.



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.

