

PD9100V EXIT DEVICE TEMPLATE



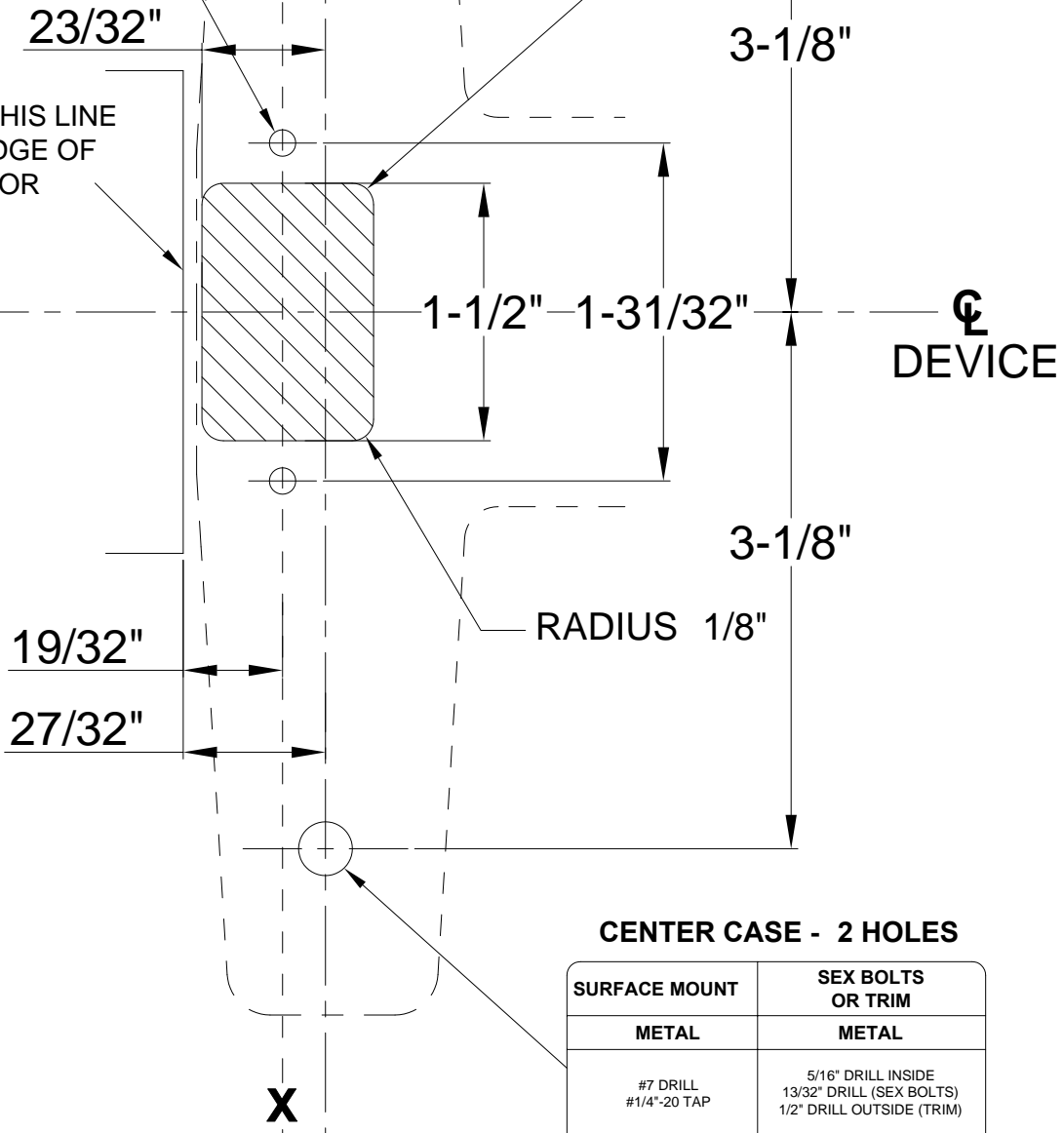
PD9100 SERIES VERTICAL ROD EXIT DEVICE INSTALLATION INSTRUCTIONS

LINE X-X IS A REFERENCE LINE FOR TRIM AND EXIT DEVICE ALIGNMENT. LINE X-X SHOWN HERE SHOULD CORRESPOND TO LINE X-X IN THE TRIM INSTALLATION INSTRUCTIONS

CENTER CASE - 2 HOLES

SURFACE MOUNT	
METAL	
#25 DRILL	#10-24 TAP
WOOD	
1/8" DRILL	PILOT 1" DEEP

ALIGN THIS LINE WITH EDGE OF STRIKE OR ROLLER



CUT-OUT DEVICE SIDE ONLY 5/8" DEEP FOR WOOD DOOR

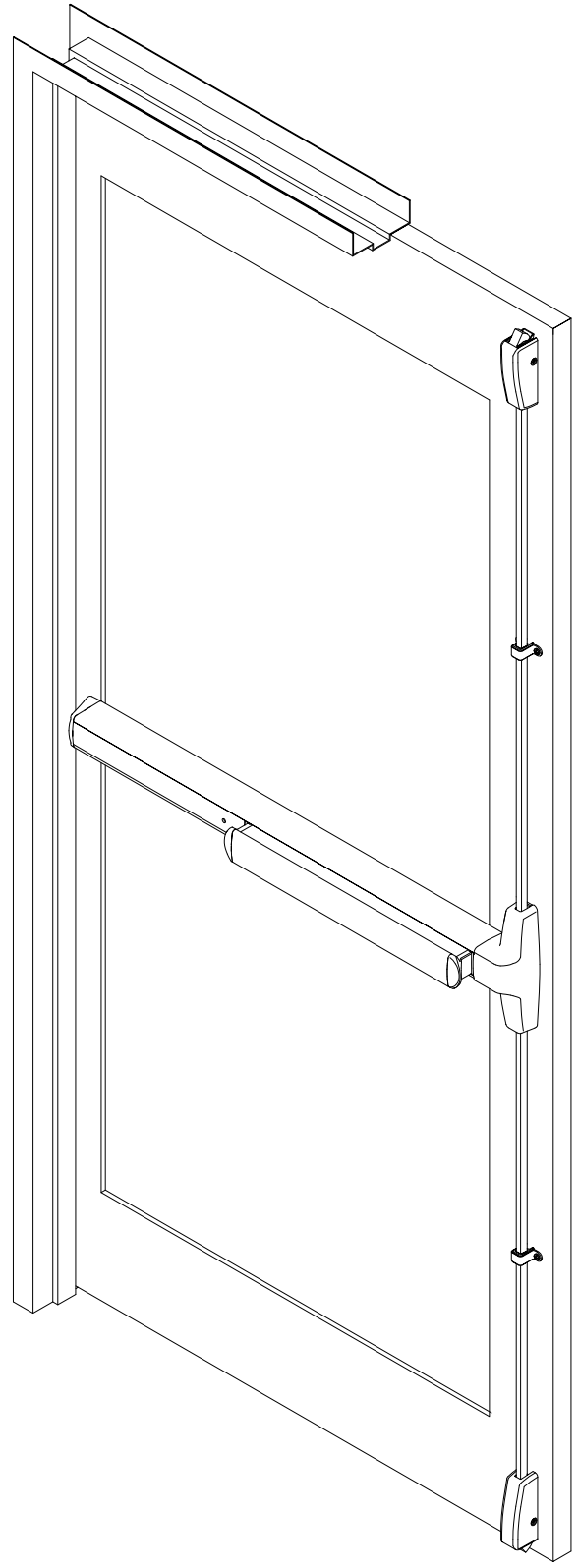


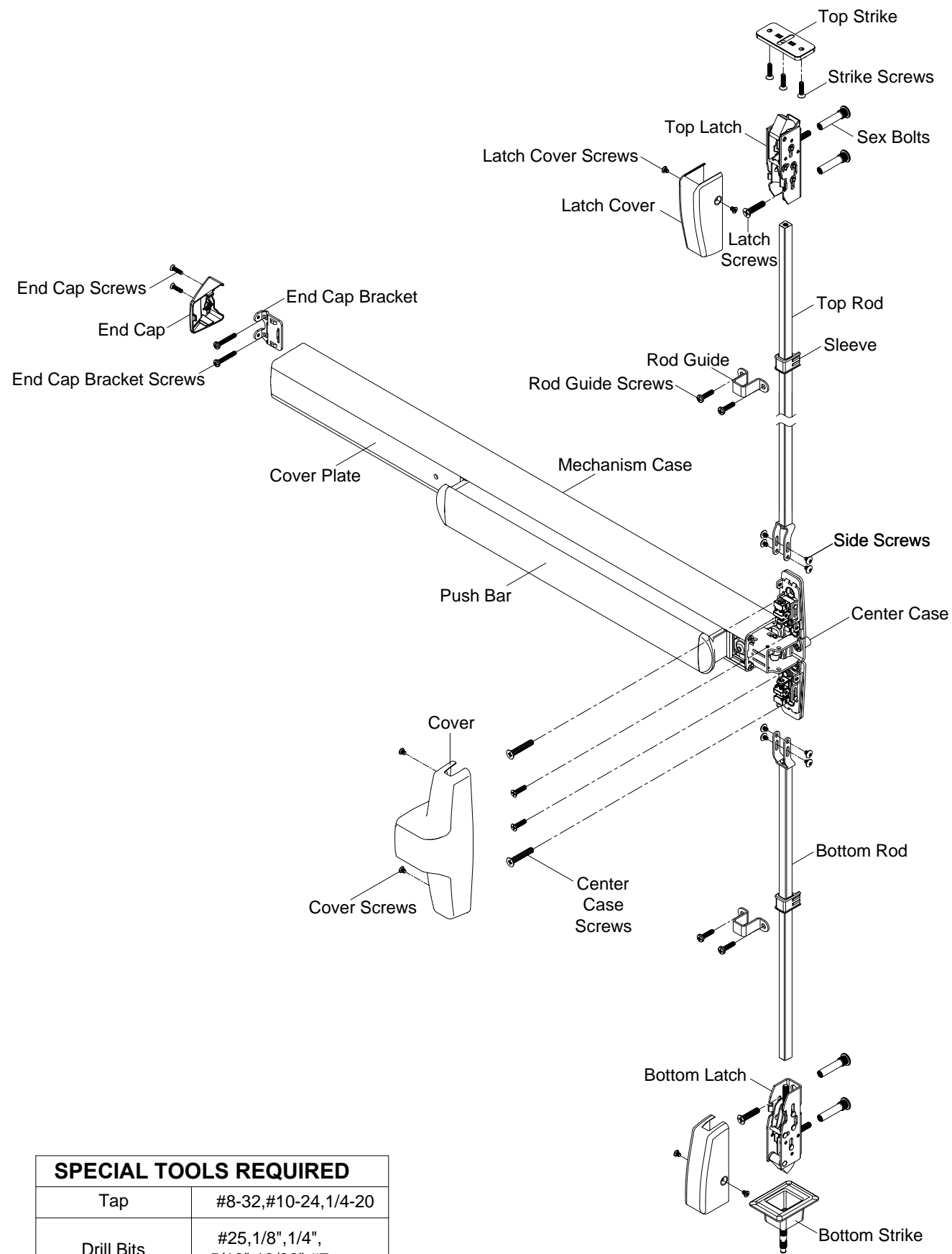
CENTER CASE - 2 HOLES

SURFACE MOUNT	
METAL	
#7 DRILL	#1/4"-20 TAP
WOOD	
13/32" DRILL THRU (SEX BOLTS)	1/2" DRILL THRU (TRIM)

SEX BOLTS OR TRIM	
METAL	
5/16" DRILL INSIDE	13/32" DRILL (SEX BOLTS)
WOOD	
13/32" DRILL THRU (SEX BOLTS)	1/2" DRILL THRU (TRIM)

NOTE: TEMPLATE IS NOT TO SCALE

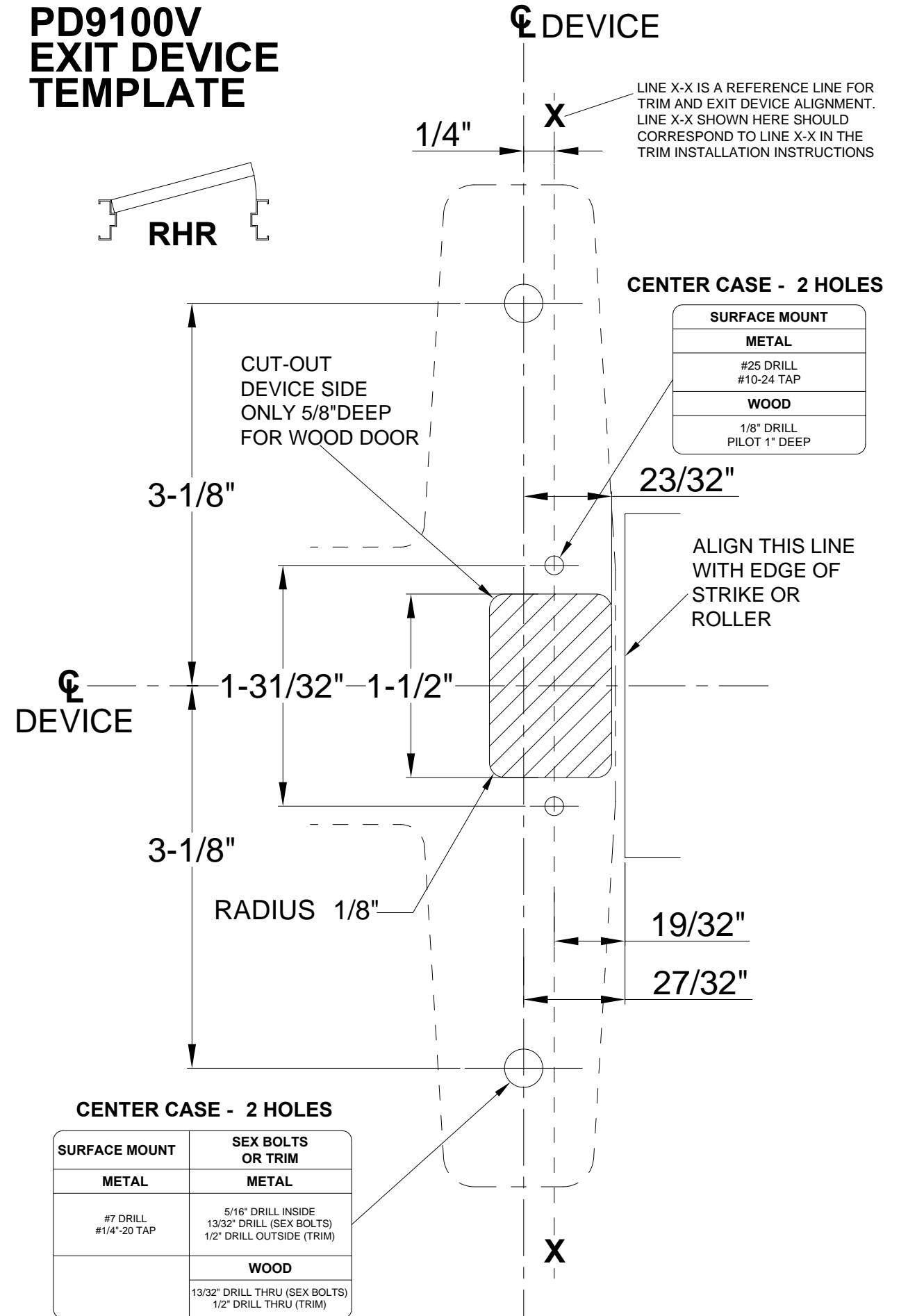




SPECIAL TOOLS REQUIRED

Tap	#8-32, #10-24, 1/4-20
Drill Bits	#25, 1/8", 1/4", 5/16", 13/32", #7
Spade Drill	5/8" (For Wood Door)

**PD9100V
EXIT DEVICE
TEMPLATE**



CENTER CASE - 2 HOLES

SURFACE MOUNT	
METAL	#25 DRILL #10-24 TAP
WOOD	1/8" DRILL PILOT 1" DEEP

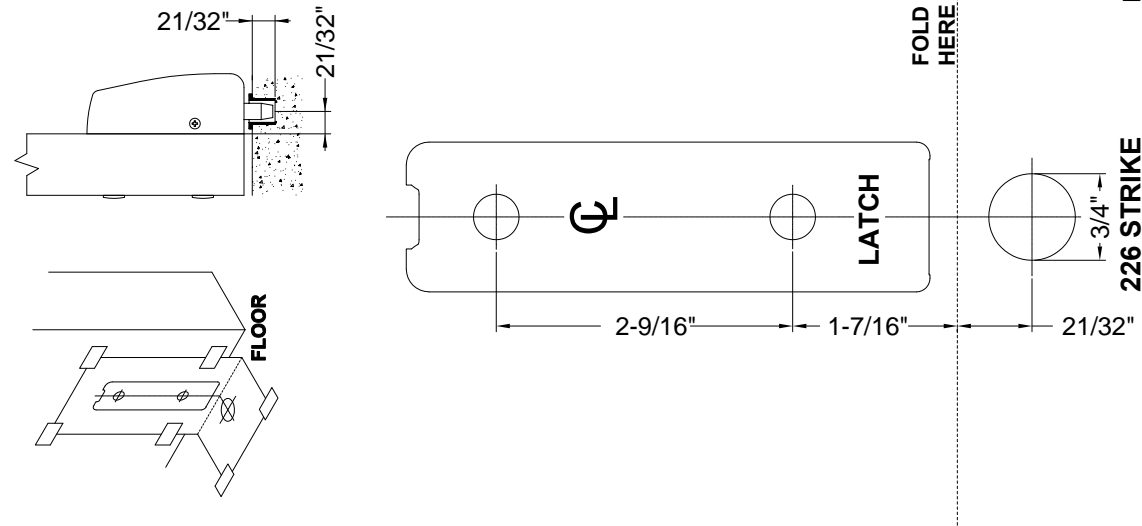
CENTER CASE - 2 HOLES

SURFACE MOUNT	
METAL	SEX BOLTS OR TRIM
#7 DRILL #1/4"-20 TAP	5/16" DRILL INSIDE 13/32" DRILL (SEX BOLTS) 1/2" DRILL OUTSIDE (TRIM)
	WOOD
	13/32" DRILL THRU (SEX BOLTS) 1/2" DRILL THRU (TRIM)

NOTE: TEMPLATE IS NOT TO SCALE

BOTTOM TEMPLATE

BOTTOM LATCH & 226 STRIKE



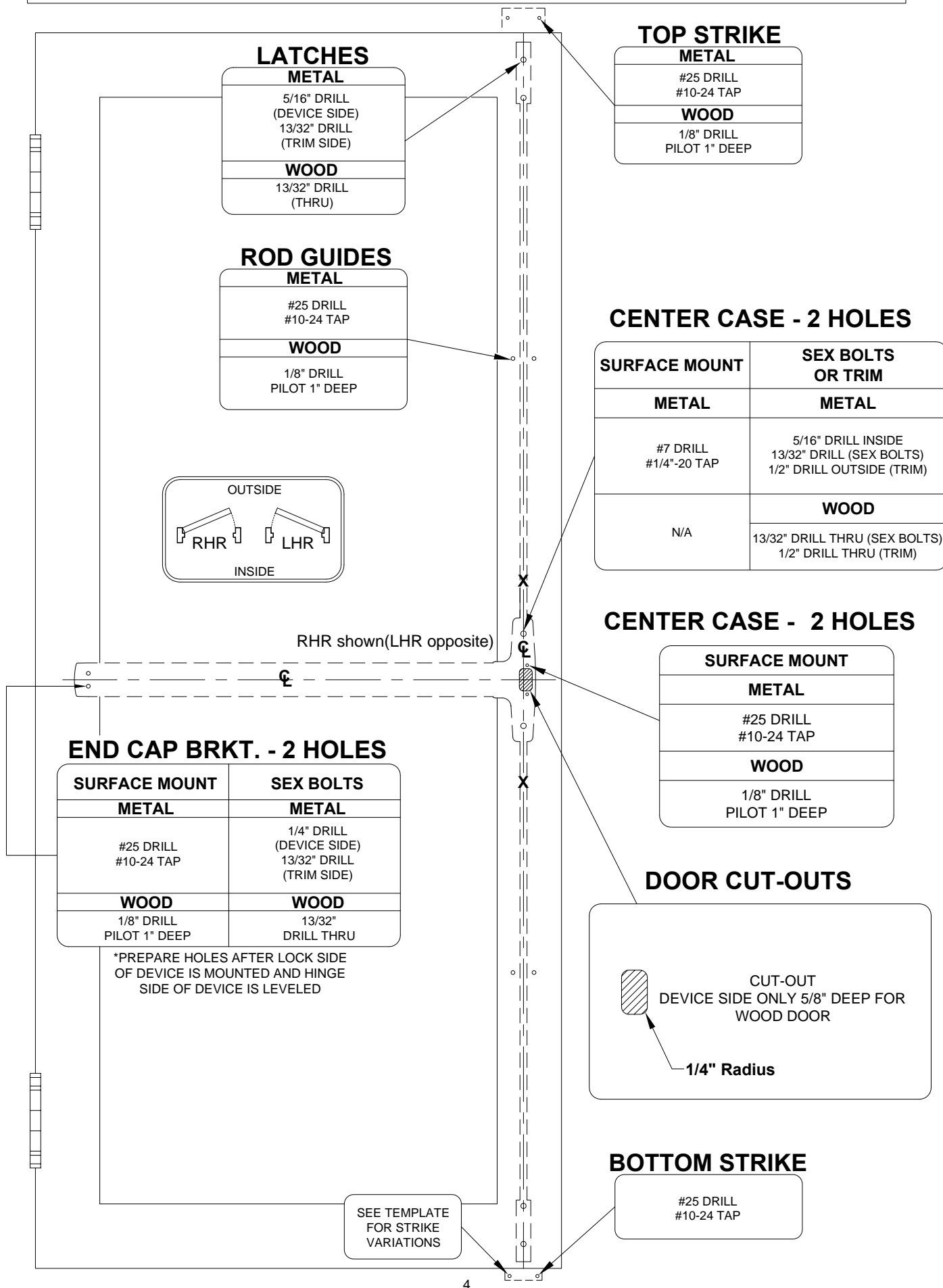
DO NOT SCALE

226 STRIKE

SCREW CHART

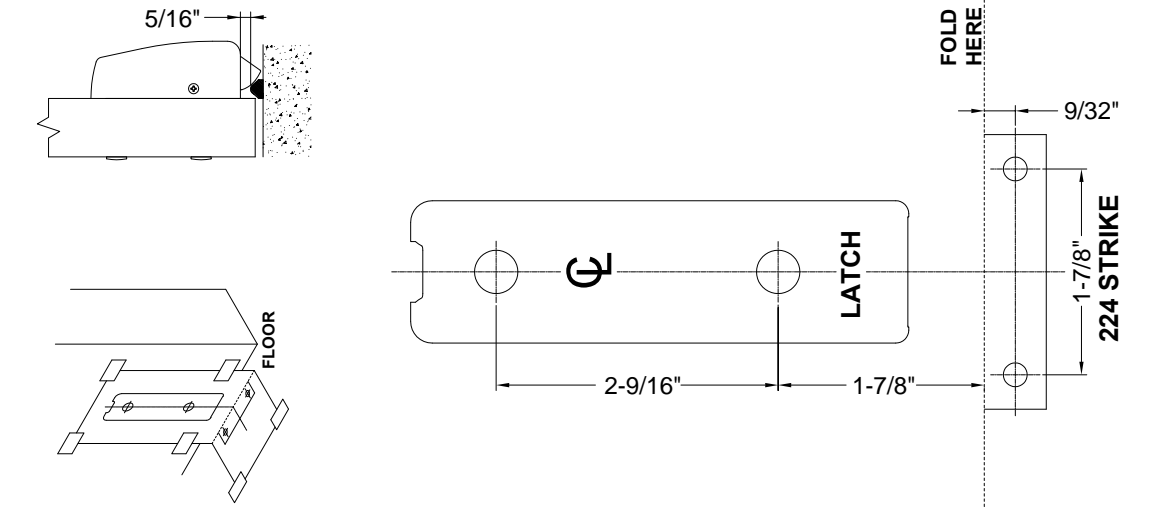
APPLICATION	METAL	SEX BOLTS	WOOD
Center Case Screws	F No. 1/4-20 x 1-1/8" 2 x PCS	F No. 1/4-20 x 1-1/8" 2 x PCS H No. 1/4-20 x 1-3/32" 2 x PCS	Trim mount or sex bolts
Center Case Screws	E No. 10-24 x 11/16" 2 PCS		A No. 10-12 x 1-11/32" 2 PCS
End Cap Bracket Screws	C No. 10-24 x 1-11/32" 2 PCS	C No. 10-24 x 1-11/32" 2 PCS G No. 10-24 x 1-3/32" 2 PCS	A No. 10-12 x 1-11/32" 2 PCS
Rod Guide Screws	D No. 10-24 x 25/32" 2 x PCS		A No. 10-12 x 1-11/32" 2 x PCS
224 / 225/203 Strike Screws	E No. 10-24 x 11/16" 2 x PCS		
Top / Bottom Latch Screws		F No. 1/4-20 x 1-1/8" 1 x PCS H No. 1/4-20 x 1-3/32" 2 x PCS	
106 / 215 Strike Screws	E No. 10-24 x 11/16" 3 x PCS		B No. 10-12 x 1-11/32" 3 x PCS
108 Strike Screws	E No. 10-24 x 11/16" 7 PCS		B No. 10-12 x 1-11/32" 7 PCS
227 Strike Screws	N No. 1/4-20 x 5/8" 1 PCS	O No. 1/4-20 x 5/8" 1 PCS	
Side Screws & Connecting Screws	F No. 1/4-20 x 1-1/8" 1 PCS	L No. 8-32 x 7/32" 4 PCS	
End Cap Screws	J No. 8-32 x 5/8" 2 PCS		
Cover Screws	I No. 8-32 x 5/32" 2 PCS		

DOOR PREPARATION CHART

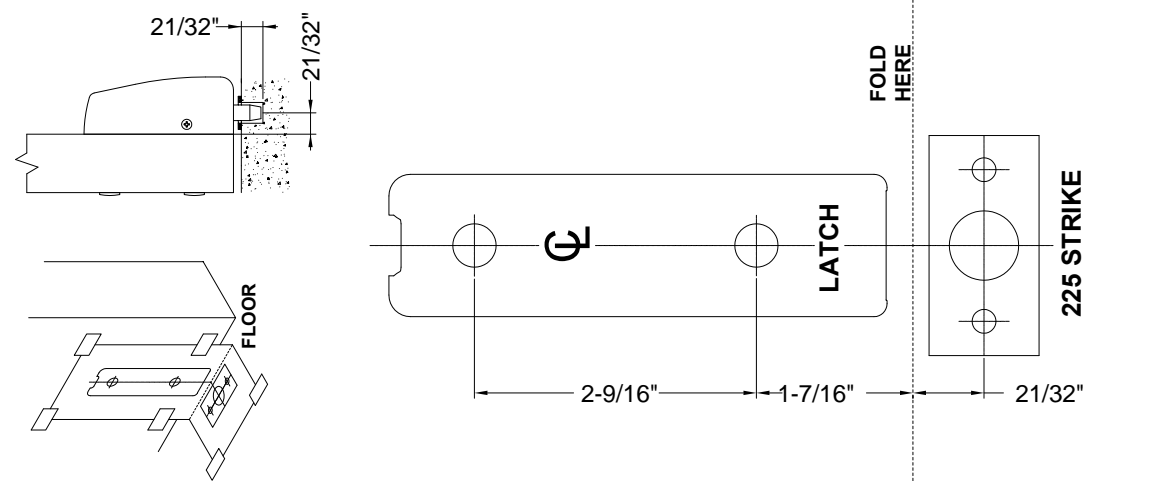


BOTTOM TEMPLATE

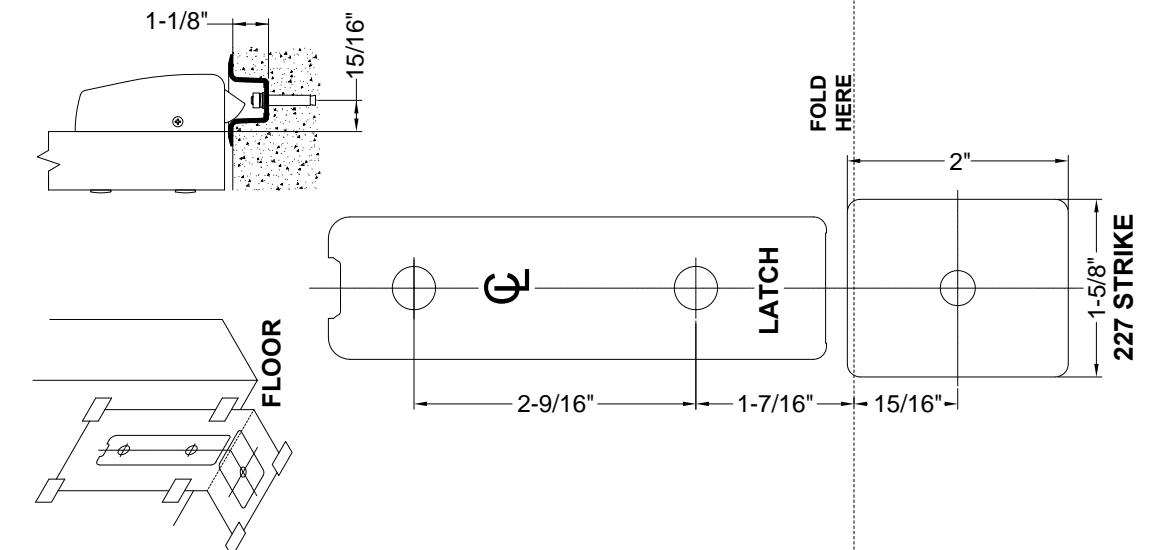
BOTTOM LATCH & 224 STRIKE



BOTTOM LATCH & 225 STRIKE



BOTTOM LATCH & 227 STRIKE

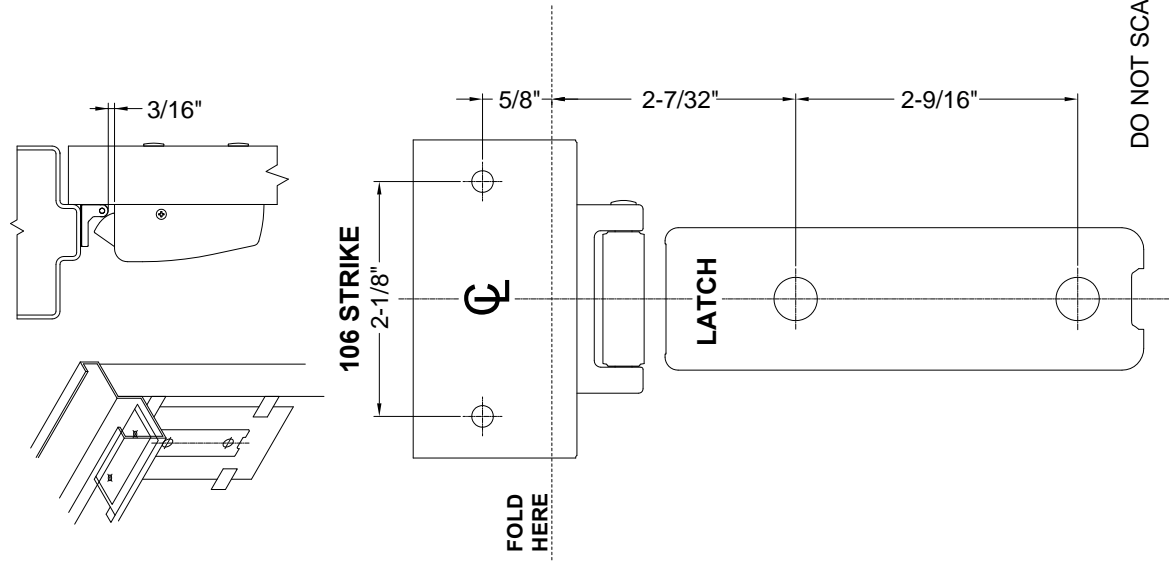


DO NOT SCALE

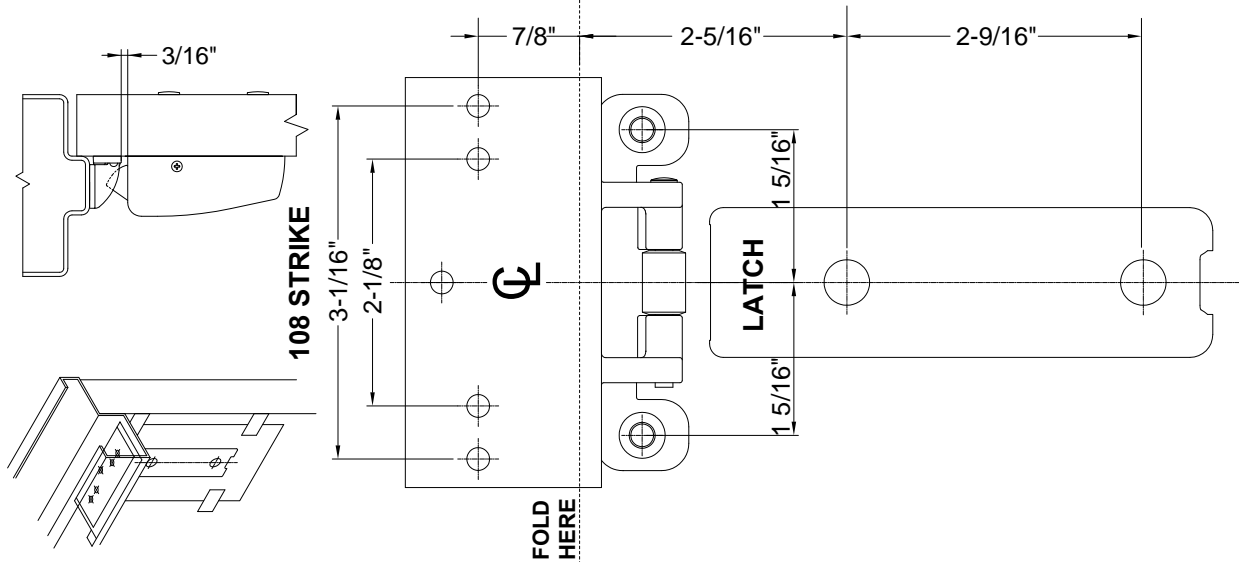
TOP TEMPLATE

DO NOT SCALE

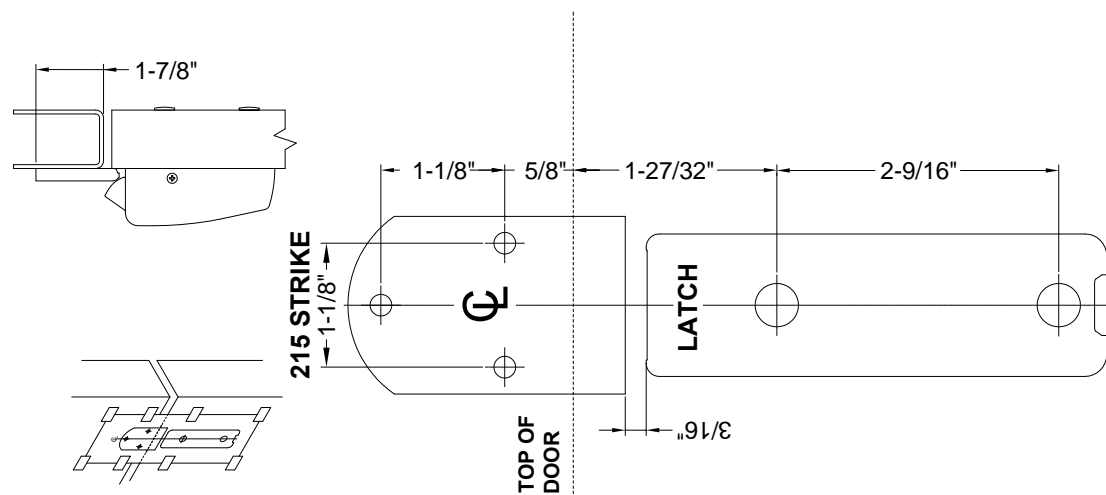
TOP LATCH & 106 STRIKE



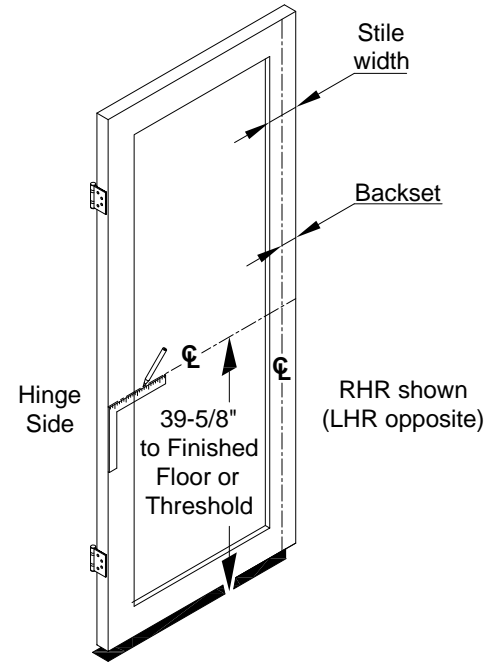
TOP LATCH & 108 STRIKE



TOP LATCH & 215 STRIKE



1 DRAW HORIZONTAL CENTERLINE (☿).



Mark horizontal centerline on inside face of door 39-5/8" from finished floor as shown. (Continue horizontal centerline to outside face of door if trim is used)

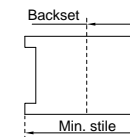
Backset	Min. stile	Application
1-3/16"	2" - 2-3/4"	Two vertical rod devices
1-1/2"	2-3/4" - 3-3/4"	
1-7/8"	3-3/4" - 5"	
2-1/2"	5" to flush	
1-11/32"	2-1/8" - 2-3/4"	Single door
1-1/2"	2-3/4" - 3-3/4"	
1-7/8"	3-3/4" - 5"	
2-1/2"	5" to flush	
2-7/32"	3" min	Vertical rod and rim devices

Note: For 106/108F top strike use minimum backsets shown below.

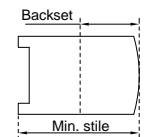
Double door : 1-3/4" min. backset
2-11/16" min. stile

Single door : 1-7/8" min. backset
2-7/8" min. stile

Beveled edge door

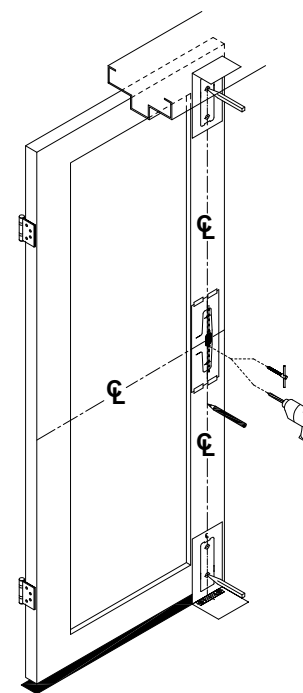


Rounded edge door



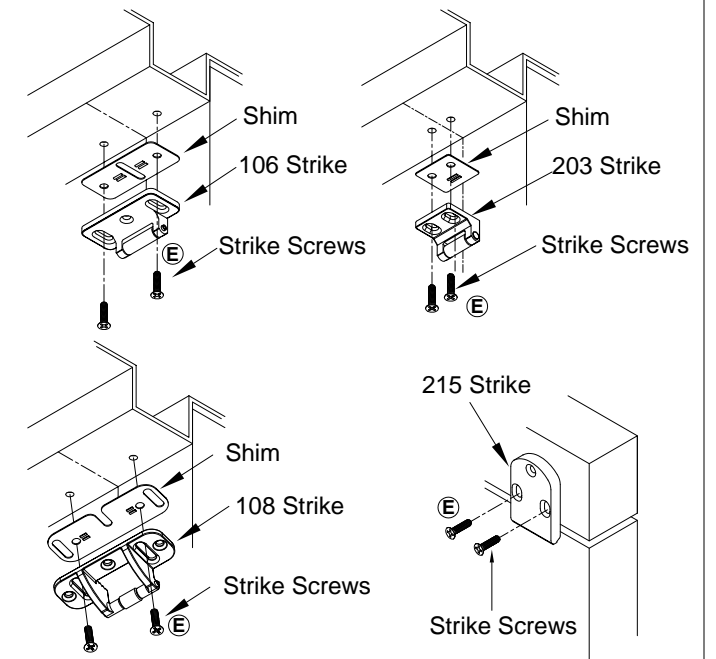
Backset measured from outer edge of door as show. Minimum stile is less glass stop (rectangular glass stop is recommended for stiles less than 2-1/8")

2 ALIGN TOP & BOTTOM TEMPLATES ALONG CENTERLINE, THEN MARK AND PREPARE DOOR.



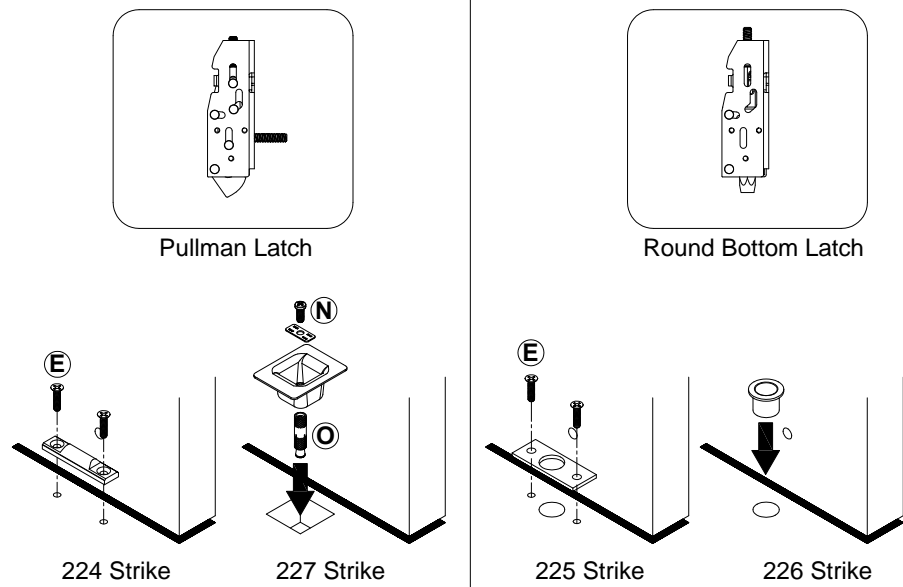
1. Fold strike template and place on door stop and inside face of door, so the vertical centerline on template lines up with the vertical centerline on door stop and door.
2. Tape template on door stop and the door face.
3. Mark centers and drill/tap holes as indicated on the template. See "DOOR PREPARATION CHART" on page 4 for drill/tap, and cut-out information.
4. See trim instructions for pull side door preparation.

3 INSTALL TOP STRIKE AND SHIM.



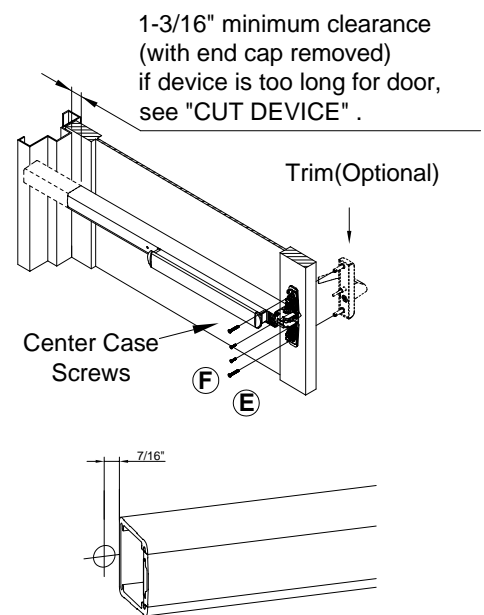
Install a screw through each slot.

4 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.

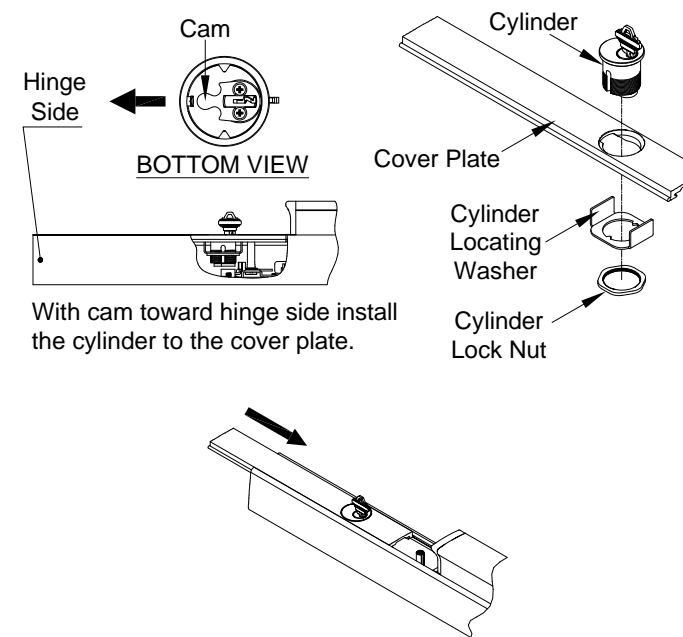
5 MEASURE TO DETERMINE LENGTH TO CUT DEVICE



If 5/8" diameter wire access hole has been predrilled in door, cut device 7/16" from center of hole

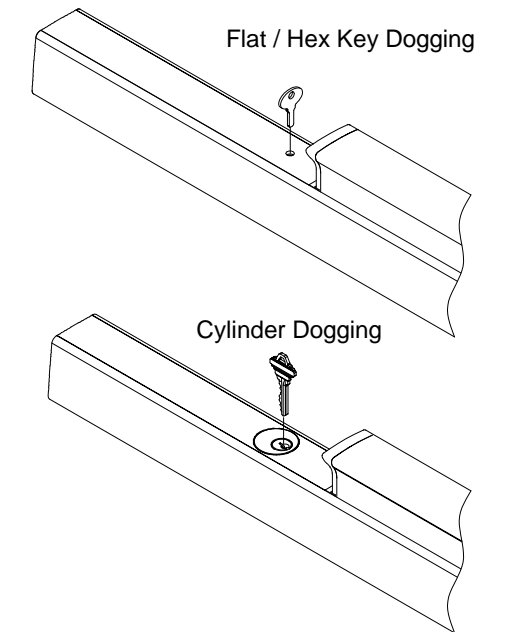
OPTIONAL DOGGING

CYLINDER DOGGING



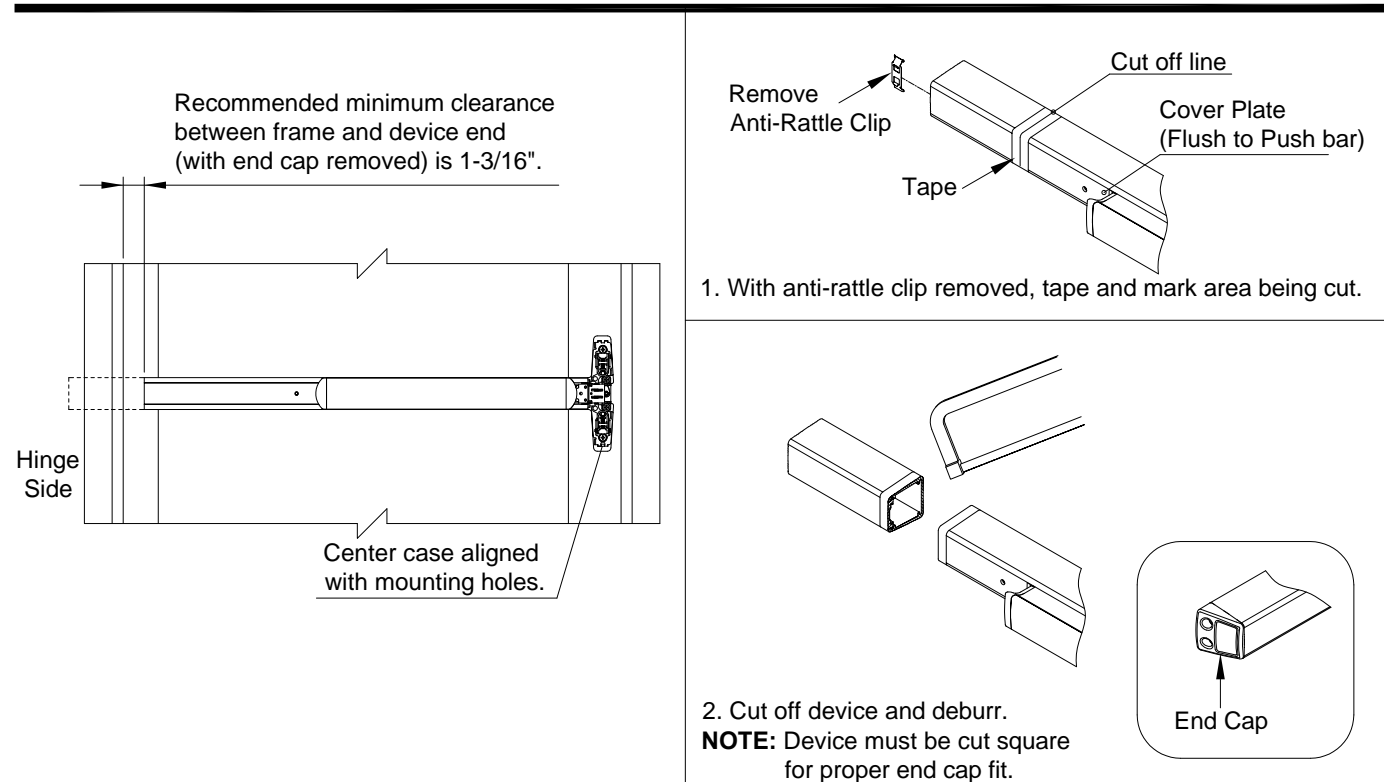
Slide cover plate in position in the mechanism case.

DOGGING CHECK



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

6 CUT DEVICE (IF REQUIRED)

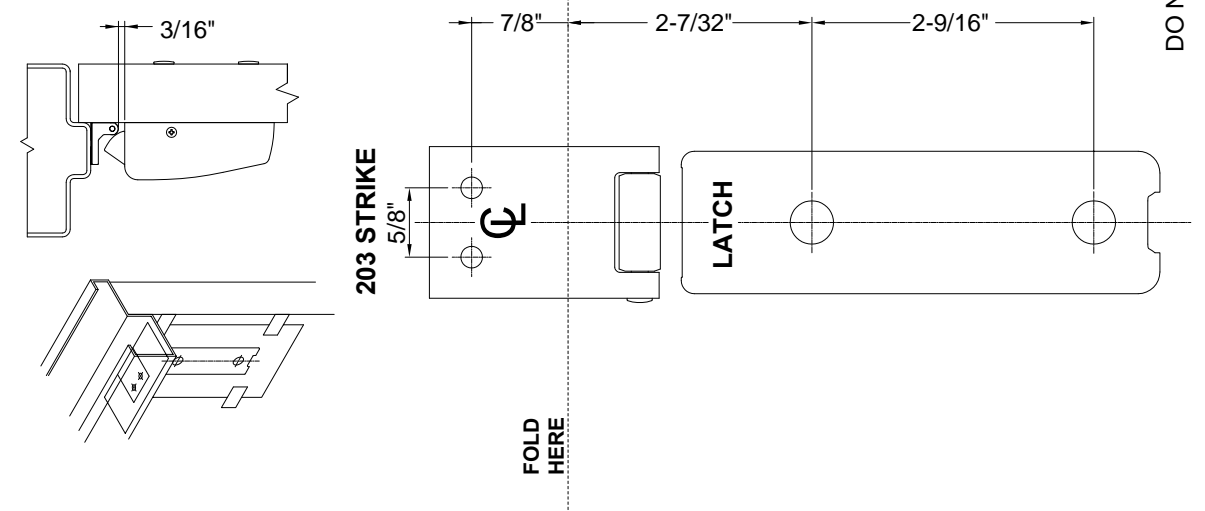


1. With anti-rattle clip removed, tape and mark area being cut.

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

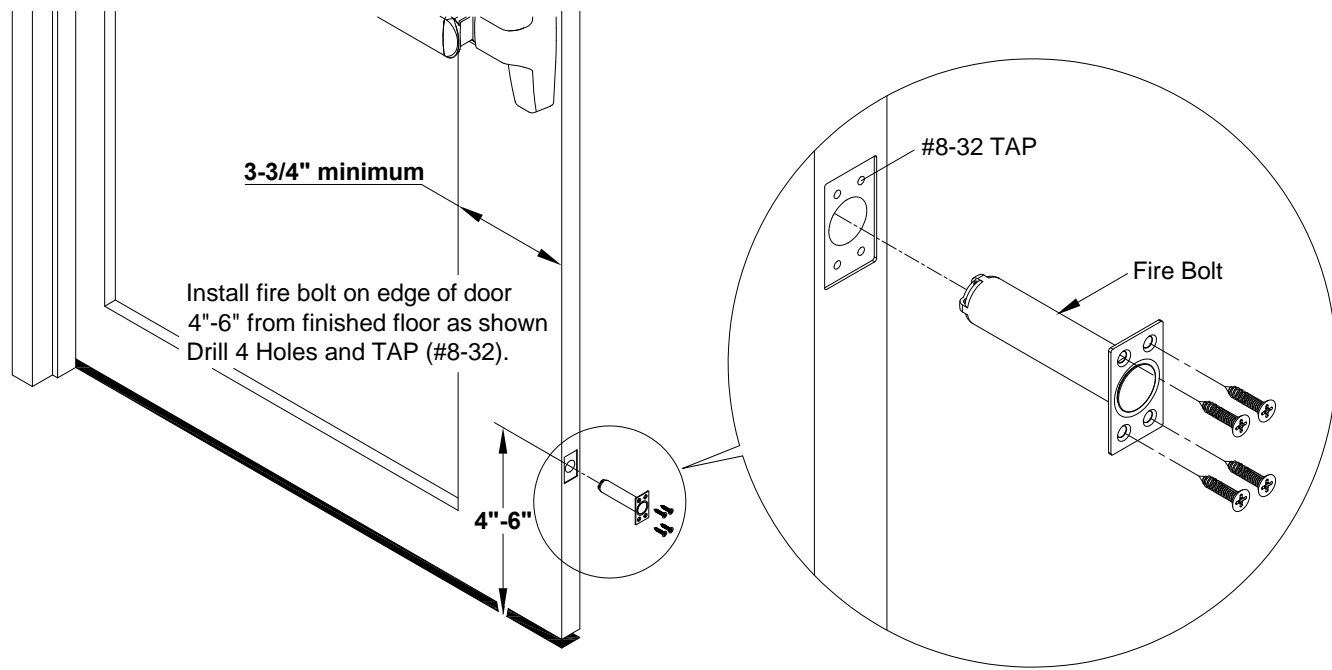
TOP TEMPLATE

TOP LATCH & 203 STRIKE



DO NOT SCALE

INSTALL FIRE BOLT



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

CUT TOP ROD / EXTEND TOP ROD

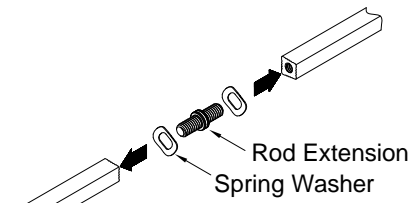
CUT TOP ROD



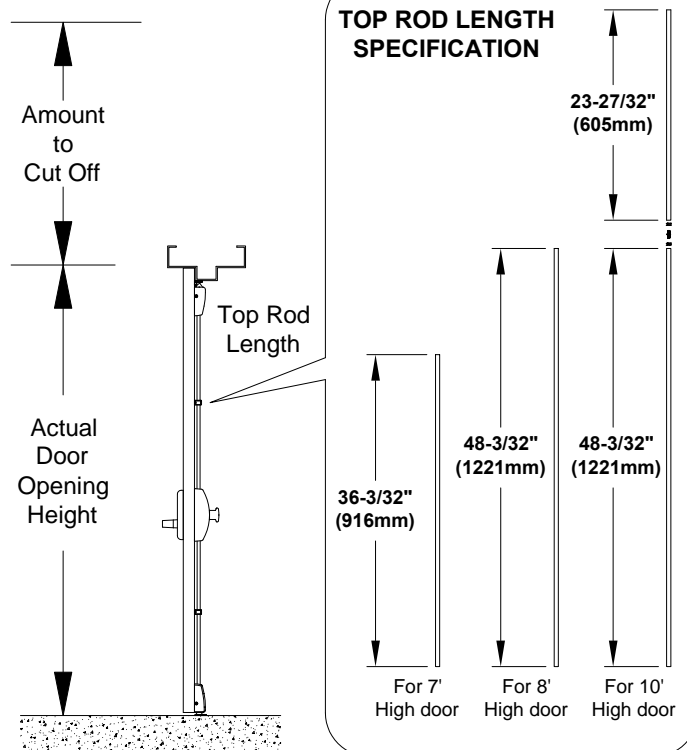
Step 1: Make sure the flat side of rod, and measure amount to cut off rod.
NOTE: Rod cutting is required for doors shorter than 7'.



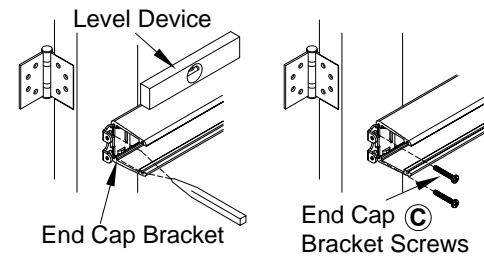
EXTEND TOP ROD



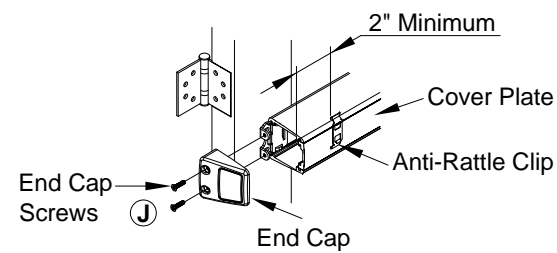
Install rod extension & spring washer to connect two(2) rods tightly.



7 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.

8 INSTALL TOP LATCH AND ROD.

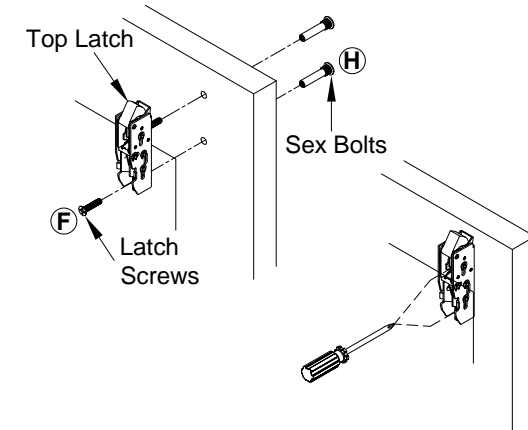
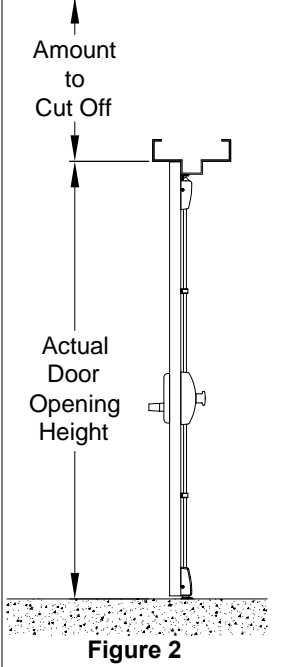


Figure 1

1. Install top latch with two(2) screws (sex bolts). Adjust strike so that device latches without binding. **See Figure 1**

2. Determine rod lengths as shown in **Figure 2**. If necessary; cut end of rod and tap. See "CUT TOP ROD / EXTEND TOP ROD" on page 10.



8 INSTALL TOP LATCH AND ROD. (Continued)

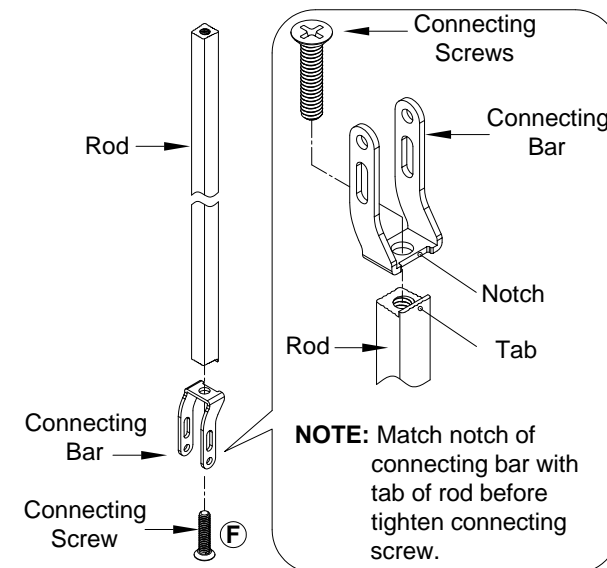
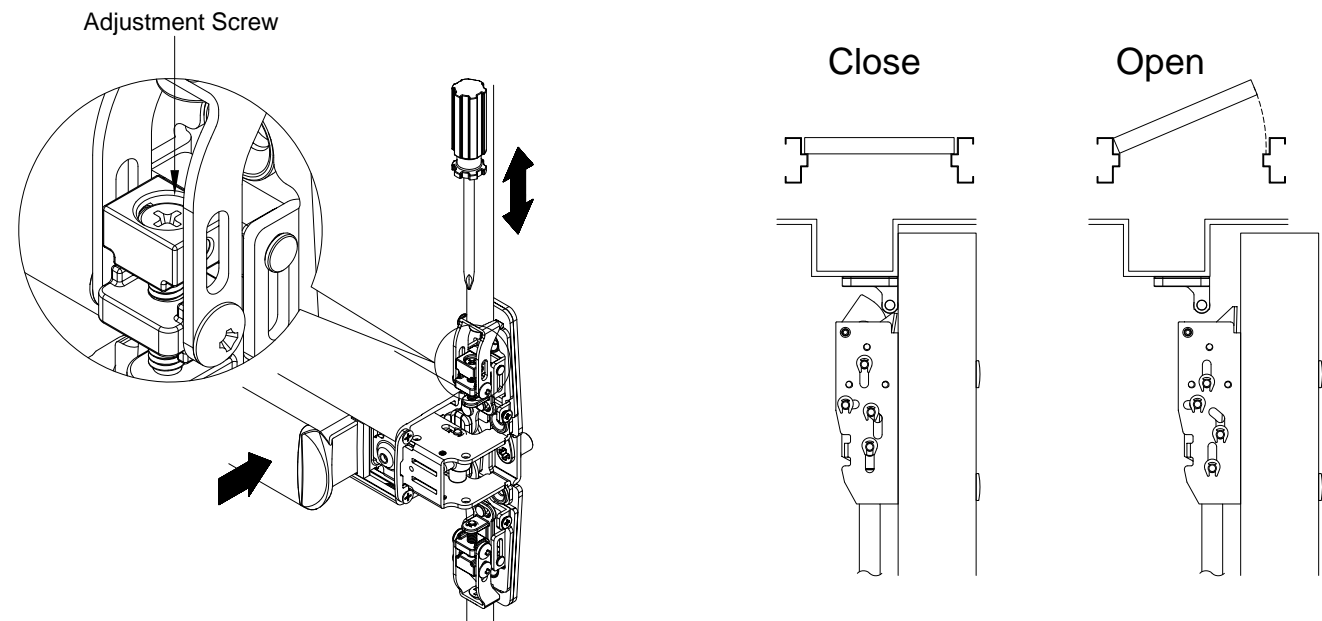


Figure 3

3. Put connecting screw through round hole of connecting bar and thread into top rod and tighten. **See Figure 3**

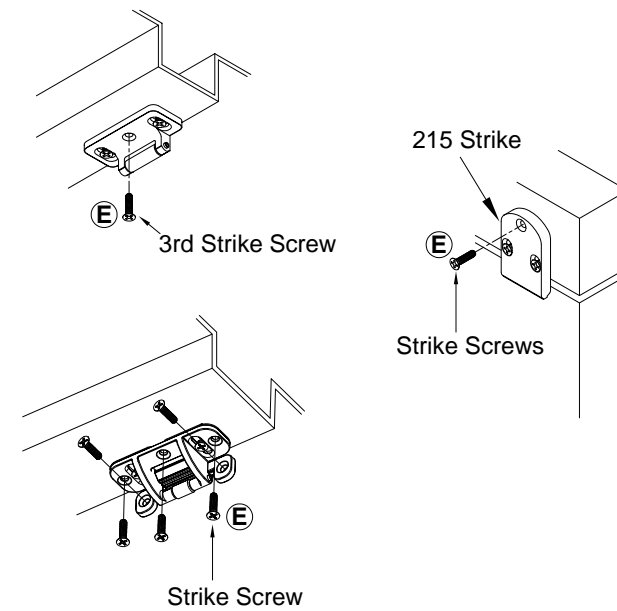
4. Assemble sleeve with rod. Thread top rod onto top latch until first hole in connecting bar align with first hole in retractor and fasten side screws.

9 CHECK TOP LATCH FOR HOLDBACK AND DEADLOCK.



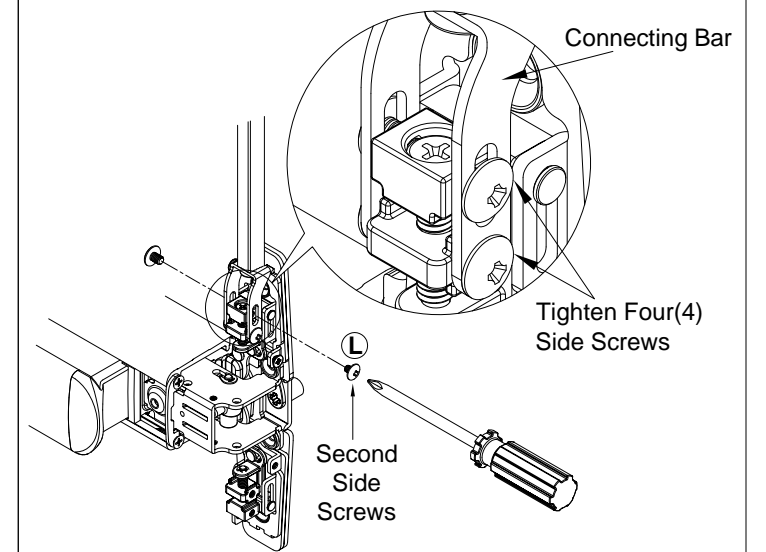
1. Pushing on push bar will retract the latchbolt and open the door. Latchbolt will stay retracted and device is in HOLDBACK. If NO HOLDBACK adjust the screw in top of retractor by screw driver.

2. Fully extended latchbolt should be in deadlock. DEADLOCKED latchbolt cannot be pushed down into the latch housing. If NO DEADLOCK, loose strike screws and adjust strike position.



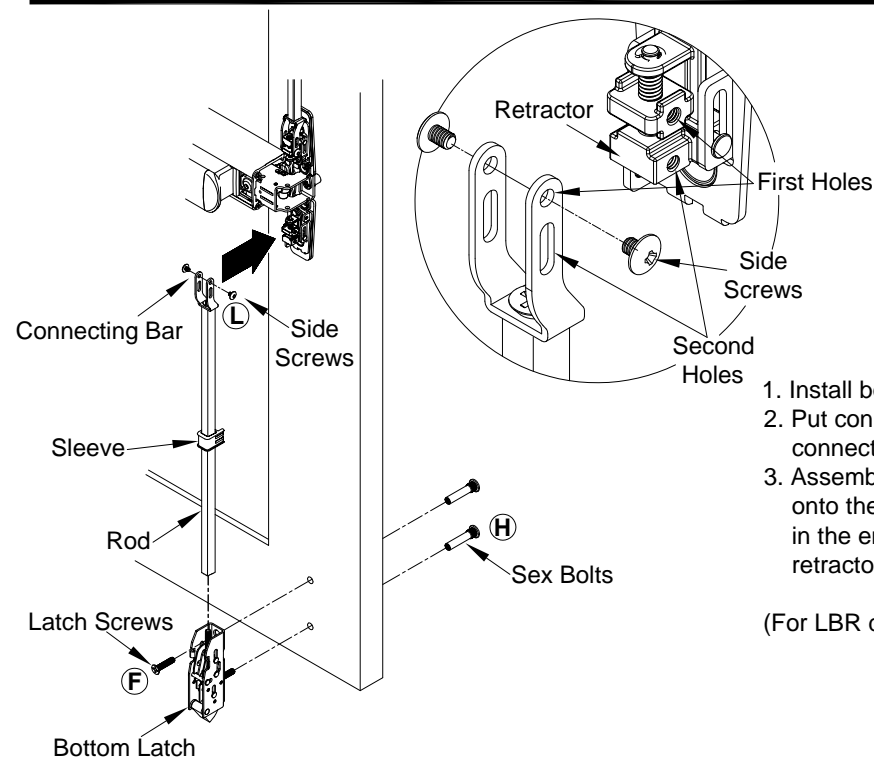
4. Apply third screw in hole of strike once adjustment is complete.

11 SECURE TWO(2) SIDE SCREWS.



Apply second side screws through second holes in connecting bar with second holes in retractor and tighten two side screws.

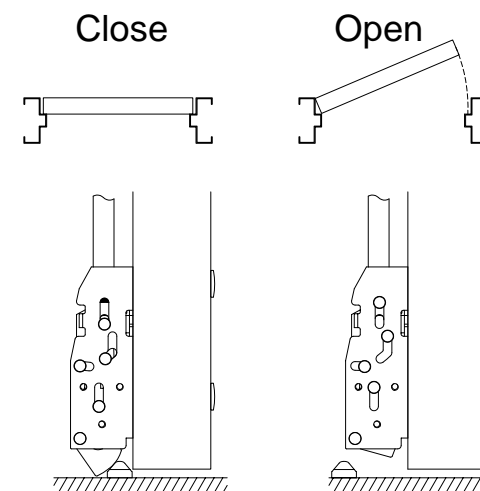
10 INSTALL BOTTOM LATCH AND ROD.



1. Install bottom latch with two(2) screws(Sex bolts).
2. Put connecting screw through round hole of connecting bar and thread into bottom rod and tighten.
3. Assemble sleeve with rod, thread the bottom rod onto the stud in the bottom latch until the first holes in the end of connecting bar align with first holes in retractor and fasten side screws.

(For LBR devices omit preparation for bottom Latch and rod.)

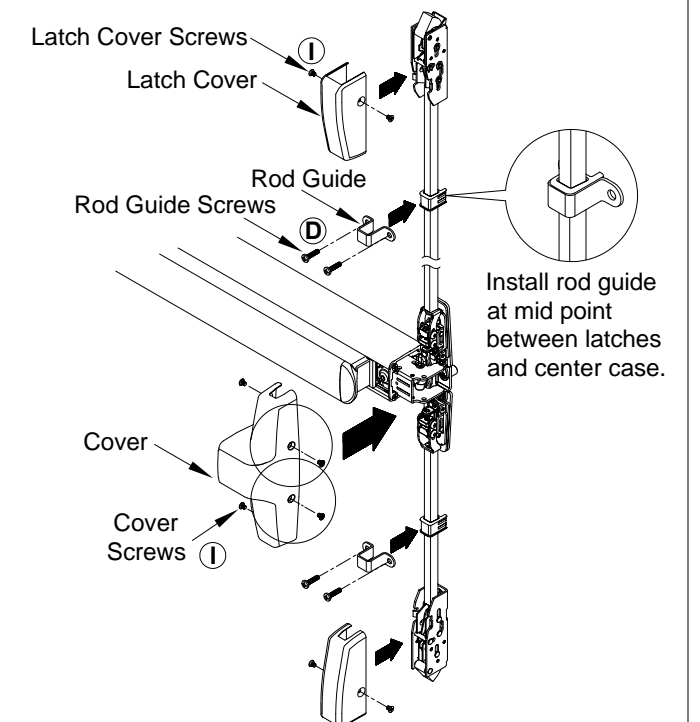
12 ADJUST BOTTOM ROD WITH DOOR OPEN (TOP LATCH RETRACTED).



1. Place device in holdback by pushing on push bar. Bottom latch bolt clears bottom strike, adjust retractor by screw driver or readjust rod if needed.
2. Secure two side screws when adjustment is completed.

Open and close door a few times and check for deadlocking when door is closed.

13 INSTALL ROD GUIDES AND COVERS WITH SCREWS.



Position rod guides midway between latches and center case, centered on rods. Mark, drill/tap and fasten rod guides with two(2) screws.