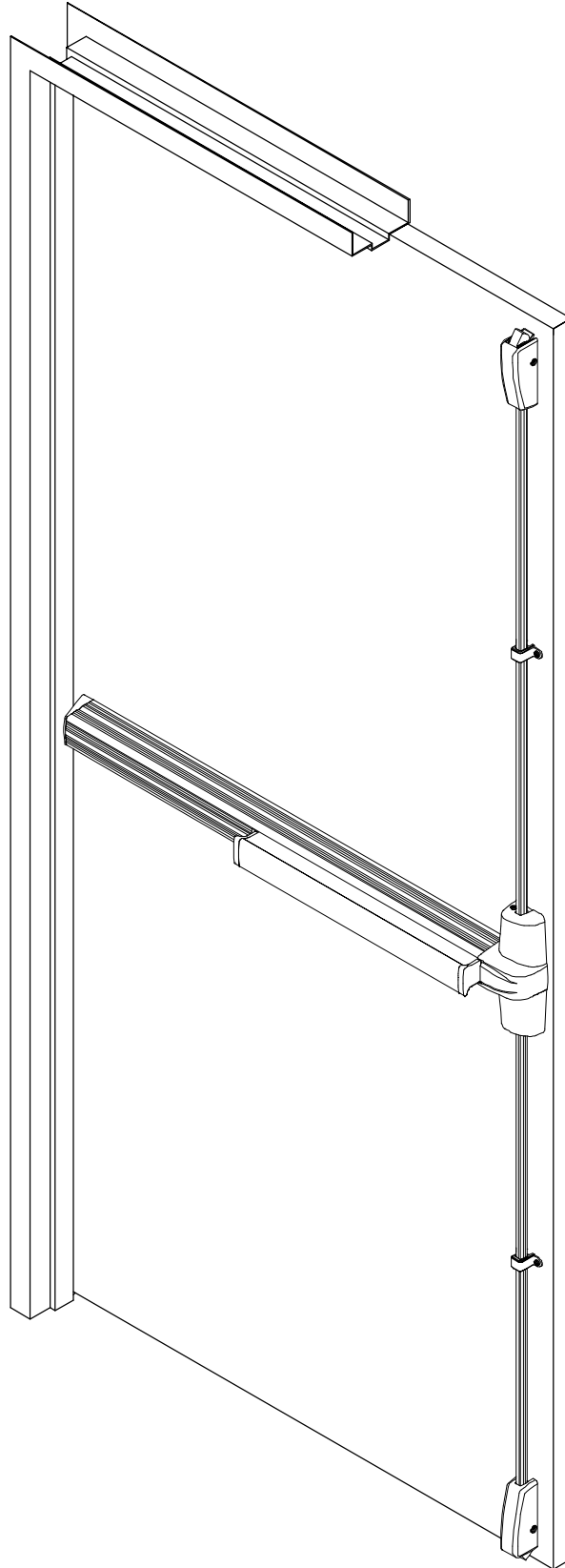
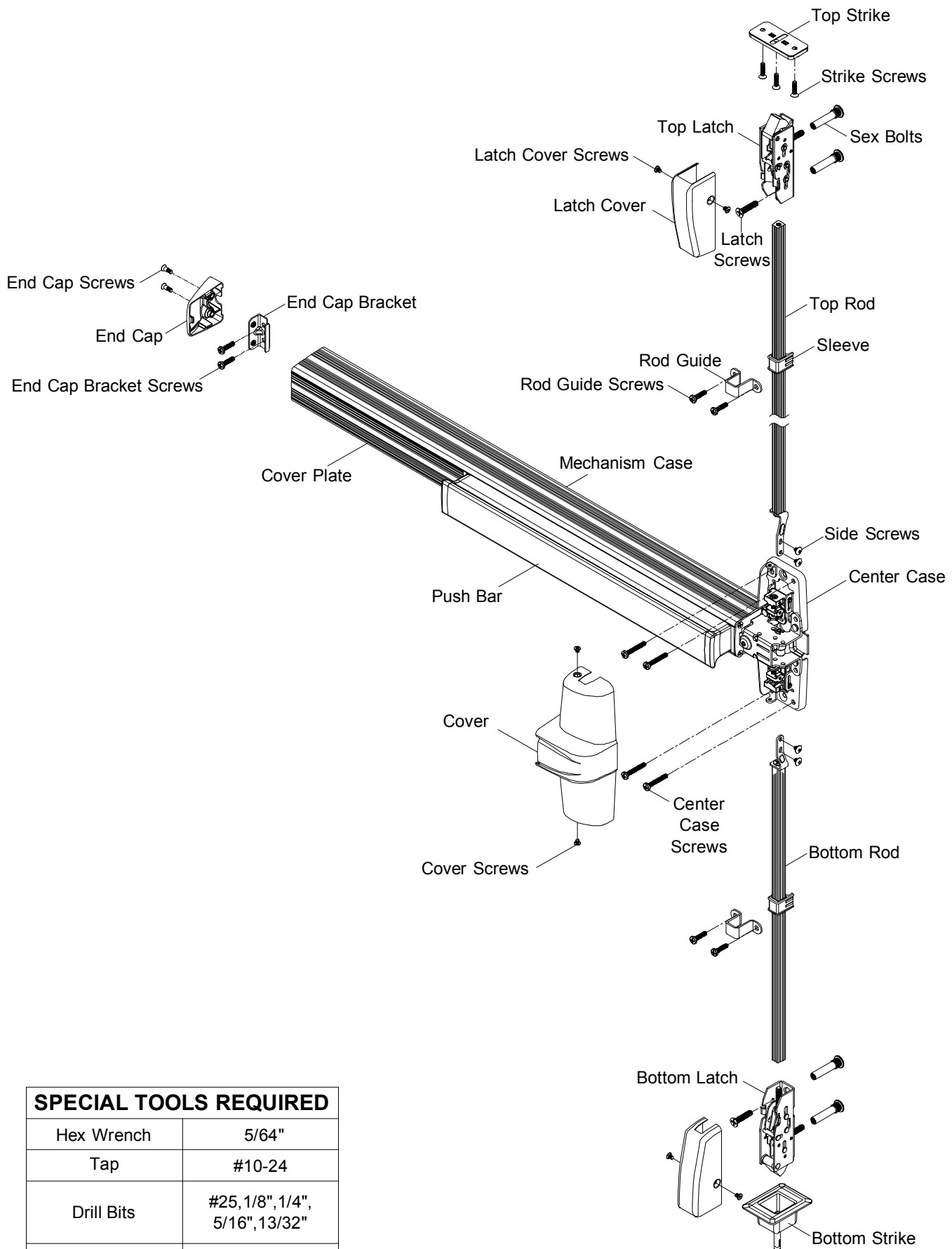


ED1200/1200F SERIES SURFACE VERTICAL ROD DEVICE

INSTALLATION INSTRUCTIONS



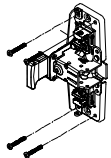
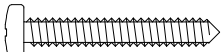

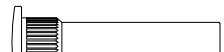
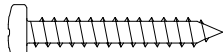
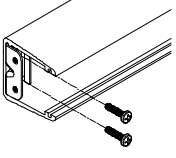
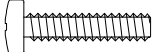

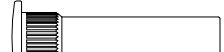
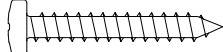
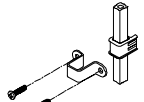
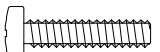
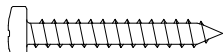
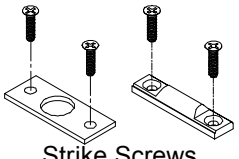

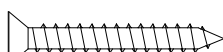
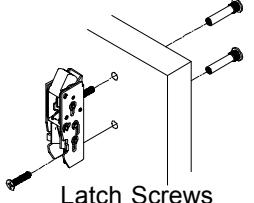
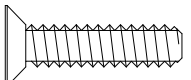


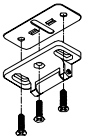
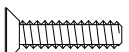
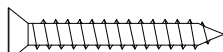
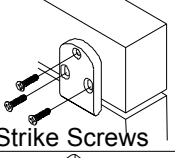
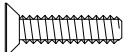
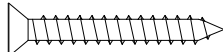
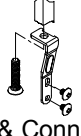
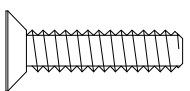

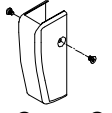

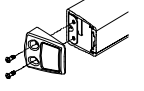

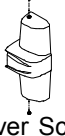

1200 SERIES SURFACE VERTICAL ROD EXIT DEVICE



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"
 Rod Guide Screws	(D)  No. 10-24 x 25/32"		(A)  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	(F)  No. 1/4-20 x 1-1/6"	(F)  No. 1/4-20 x 1-1/6" (H)  No. 1/4-20 x 1-3/32"	
 Strike 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"
 Side Screws & Connecting Screws	(M)  No. 1/4-20 x 1-1/6"		 No. 8-32 x 7/32"
 Latch Cover Screws	(I)	 No. 8-32 x 5/32"	
 End Cap Screws	(J)	 No. 8-32 x 1/4"	
 Cover Screws	(I)	 No. 8-32 x 5/32"	

DOOR PREPARATION CHART

LATCHES

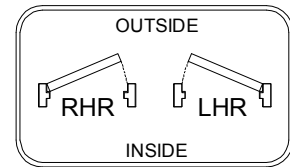
METAL
5/16" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD
13/32 DRILL (THRU)

TOP STRIKE

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

ROD GUIDES

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



CENTER CASE - 4 HOLES

SURFACE MOUNT	SEX BOLTS OR 300 SERIES TRIM
METAL	METAL
#25 DRILL #10-24 TAP	1/4" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD	WOOD
1/8" DRILL PILOT 1" DEEP	13/32" DRILL THRU



RHR shown(LHR opposite)

END CAP BRKT. - 2 HOLES

SURFACE MOUNT	SEX BOLTS
METAL	METAL
#25 DRILL #10-24 TAP	1/4" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD	WOOD
1/8" DRILL PILOT 1" DEEP	13/32" DRILL THRU

*PREPARE HOLES AFTER LOCK SIDE OF DEVICE IS MOUNTED AND HINGE SIDE OF DEVICE IS LEVELED

DOOR CUT-OUTS

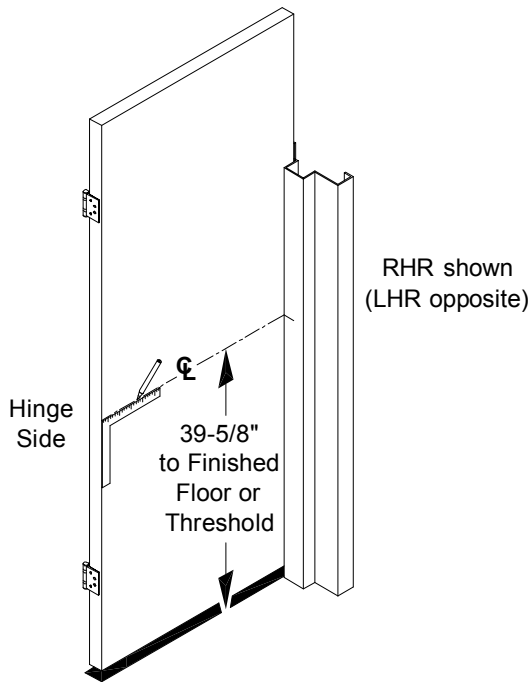
	OUTSIDE CYLINDER APPLICATIONS: MARK WITH TEMPLATE AND CUT OUT: METAL DOOR (CUT DEVICE SIDE) WOOD DOOR (CUT THRU)
	FOR TRIM APPLICATIONS WITH WORKING LEVER, THUMB PIECE, OR KNOB: MARK WITH TEMPLATE AND CUT OUT: (CUT DEVICE SIDE ONLY)

BOTTOM STRIKE

#25 DRILL #10-24 TAP

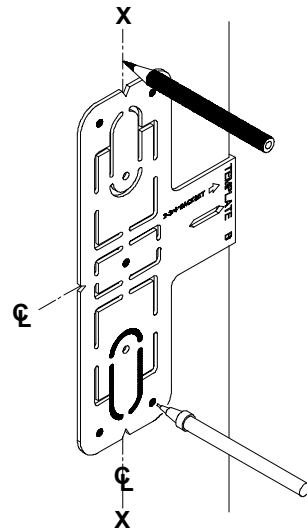
SEE TEMPLATE FOR STRIKE VARIATIONS

1 DRAW HORIZONTAL CENTERLINE (☉).



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

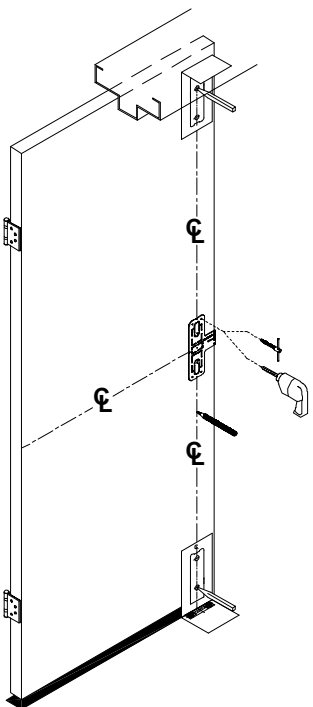
2 POSITION TEMPLATE AS SHOWN AND MARK VERTICAL ☉.



Mark vertical center line X-X above and below horizontal center line. (Mark vertical center line at lock side using same backset dimension on outside face of door if trim is using).

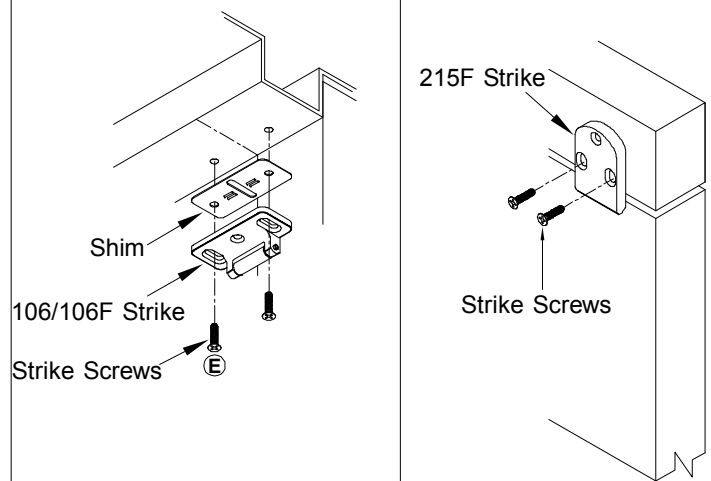
CAUTION: Vertical center lines on both sides of the door should be the same dimension from the edge of the door. Use extra care if edge of door is beveled. Be sure X-X vertical center line is parallel to edge of door.

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



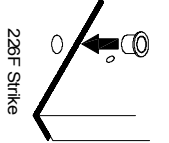
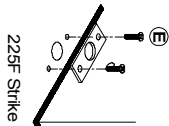
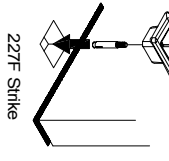
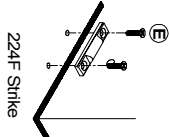
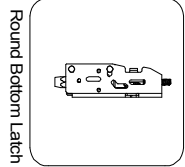
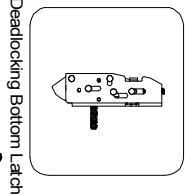
1. Fold strike template and place on door stop and inside face of door, so the vertical centerline on template lines up with the vertical centerline on door stop and door.
2. Tape template on door stop and the door face.
3. Mark centers and drill/tap holes as indicated on the template. See "DOOR PREPARATION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

4 INSTALL TOP STRIKE AND SHIM.



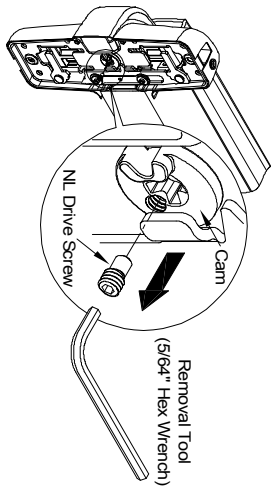
Install a screw through each slot.

5 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.

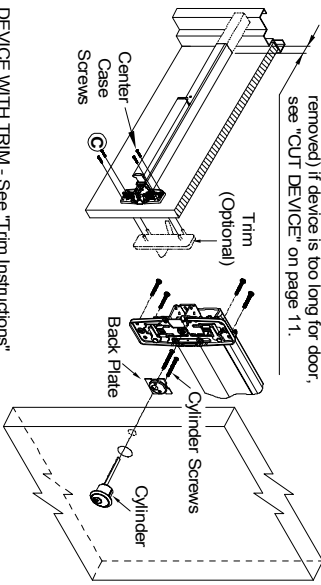
6 DETERMINE USE OF NL DRIVE SCREW.



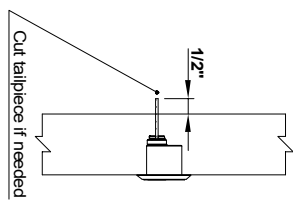
NL driver screw is factory assembled in cam on back of device center case, when the NL drive screw is left in back of center case, the outside cylinder will function only as a Night Latch.

- 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 thumb piece **AND** an outside cylinder to lock and unlock the trim.

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

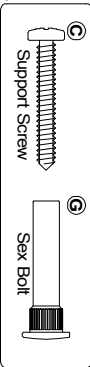


1-1/2" minimum clearance (with end cap removed) if device is too long for door, see "CUT DEVICE" on page 11.

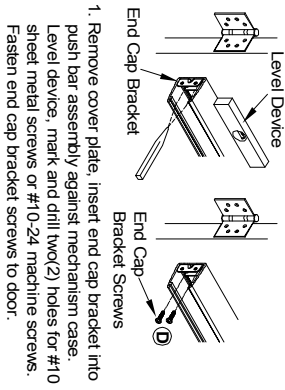


1. **DEVICE WITH TRIM** - See "Trim Instructions".
2. **CYLINDER ONLY** - Install cylinder with cylinder back plate as shown. Make sure the tailpiece is extending 1/2" from the inside face of door. Insert tailpiece into cam in the center case and mount it to the door with four(4) center case screws.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

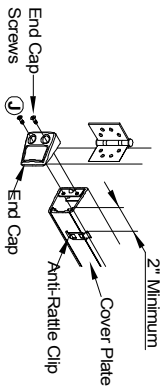
For **FIRE EXIT DEVICES** - Sex bolts and support screws are required for composite (wood, plastic and steel covered), wood core, sheet metal and hollow metal doors without reinforcement unless door manufacturer has an alternate mounting method. Fire doors with steel reinforcement, mount devices with machine screws.



8 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 #10 sheet 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.

9 INSTALL TOP LATCH AND ROD.

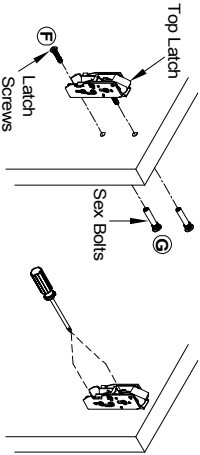


Figure 1

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.

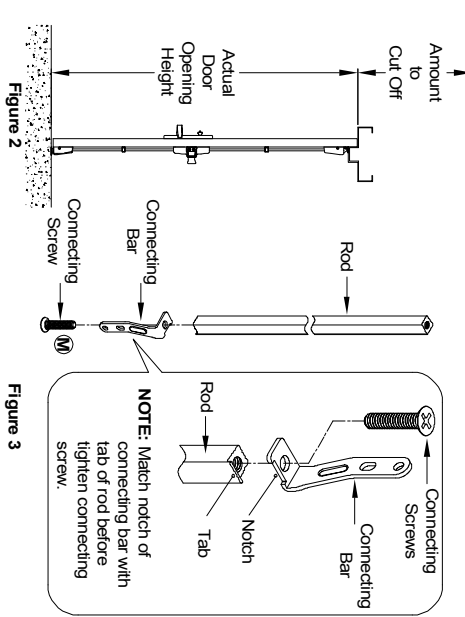
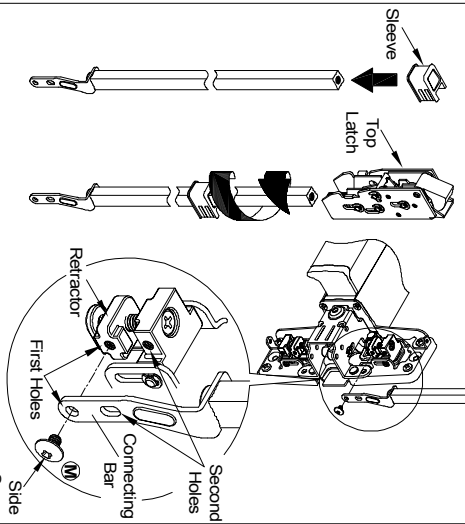


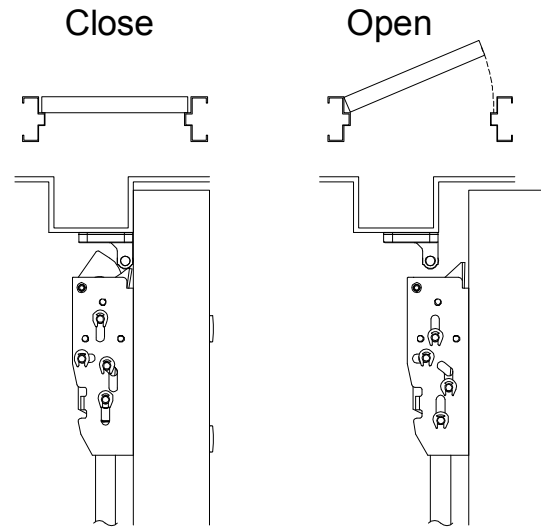
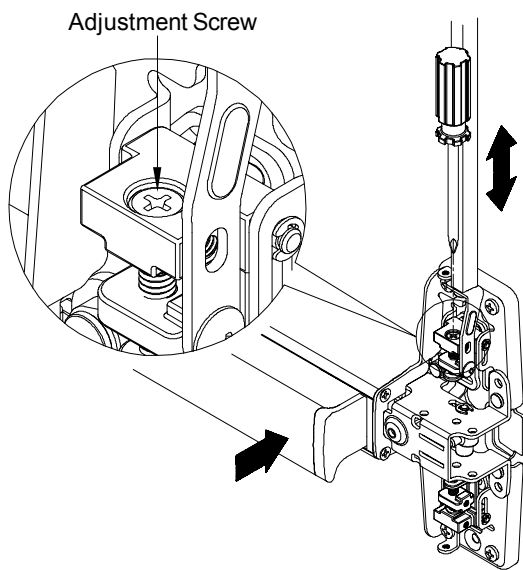
Figure 3

3. Put connecting screw through round hole of connecting bar and thread into top rod and tighten. See Figure 3
- NOTE:** Verify side marking "A," "B" in connecting bars for different door handing, see "TOP / BOTTOM ROD HANDING VERIFICATION" on back cover.



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 screw.

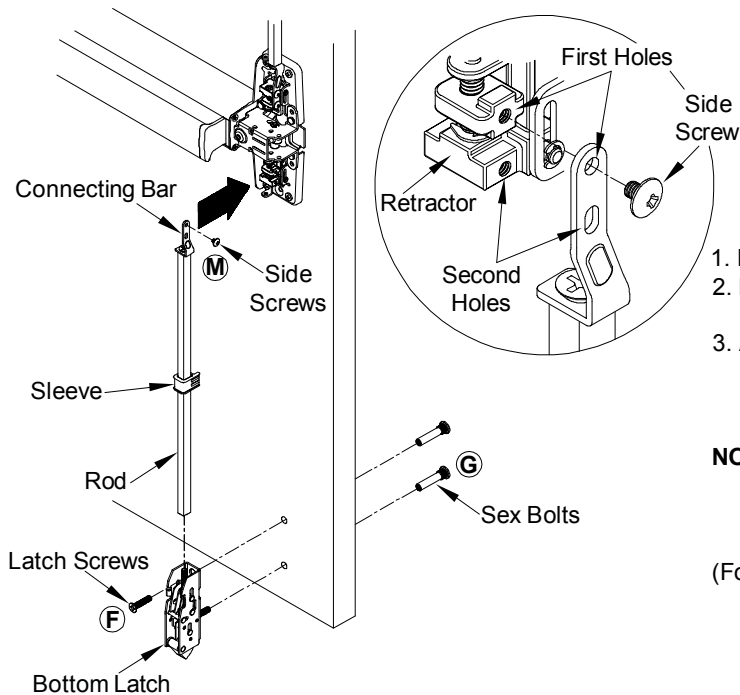
10 CHECK TOP LATCH FOR HOLDBACK AND DEADLOCK.



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.

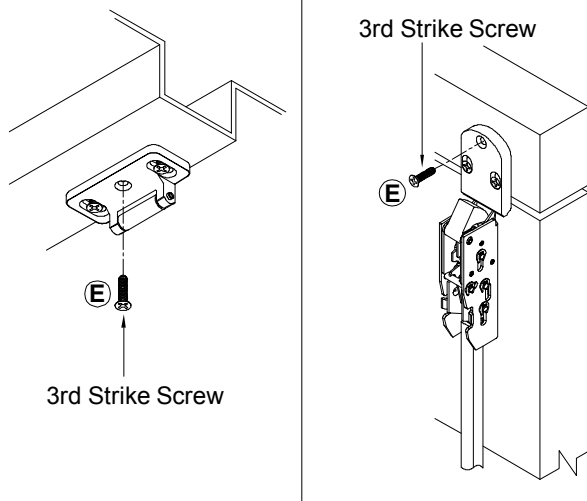
12 INSTALL BOTTOM LATCH AND ROD.



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 hole in the end of connecting bar align with first hole in retractor and fasten side screw.

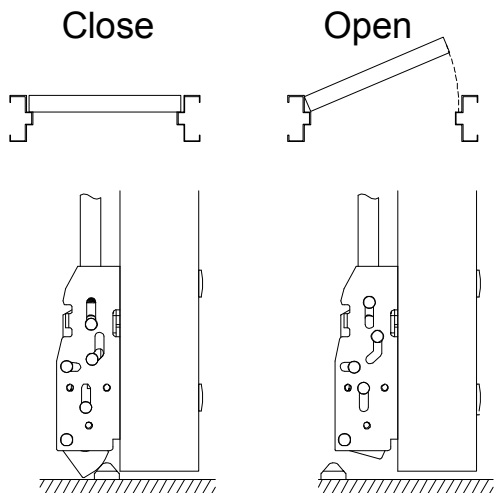
NOTE: Verify side marking "A" & "B" in connecting bars for different handing door, see "TOP / BOTTOM ROD HANDING VERIFICATION" on back cover.

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



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

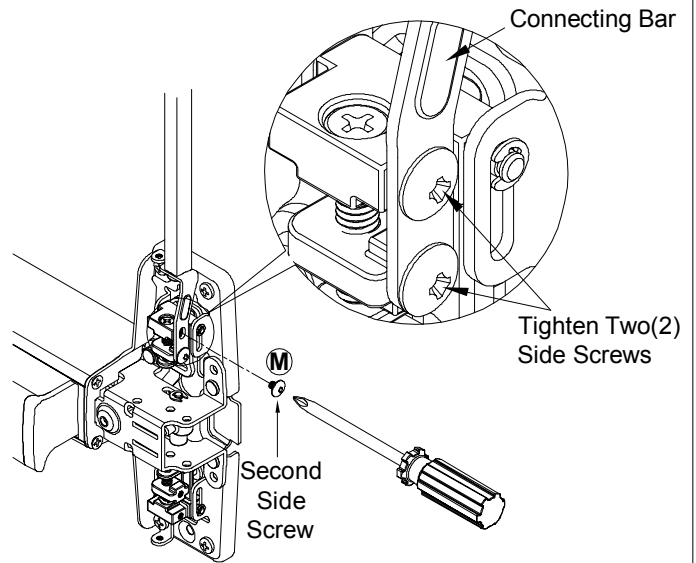
13 ADJUST BOTTOM ROD WITH DOOR OPEN (TOP LATCH RETRACTED).



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.

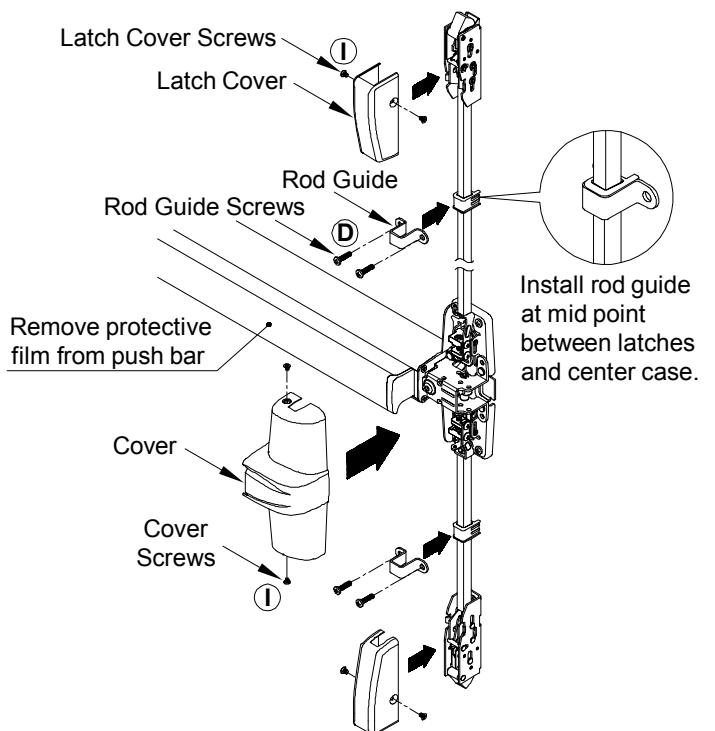
Open and close door a few times and check for deadlocking when door is closed.

11 SECURE TWO(2) SIDE SCREWS.



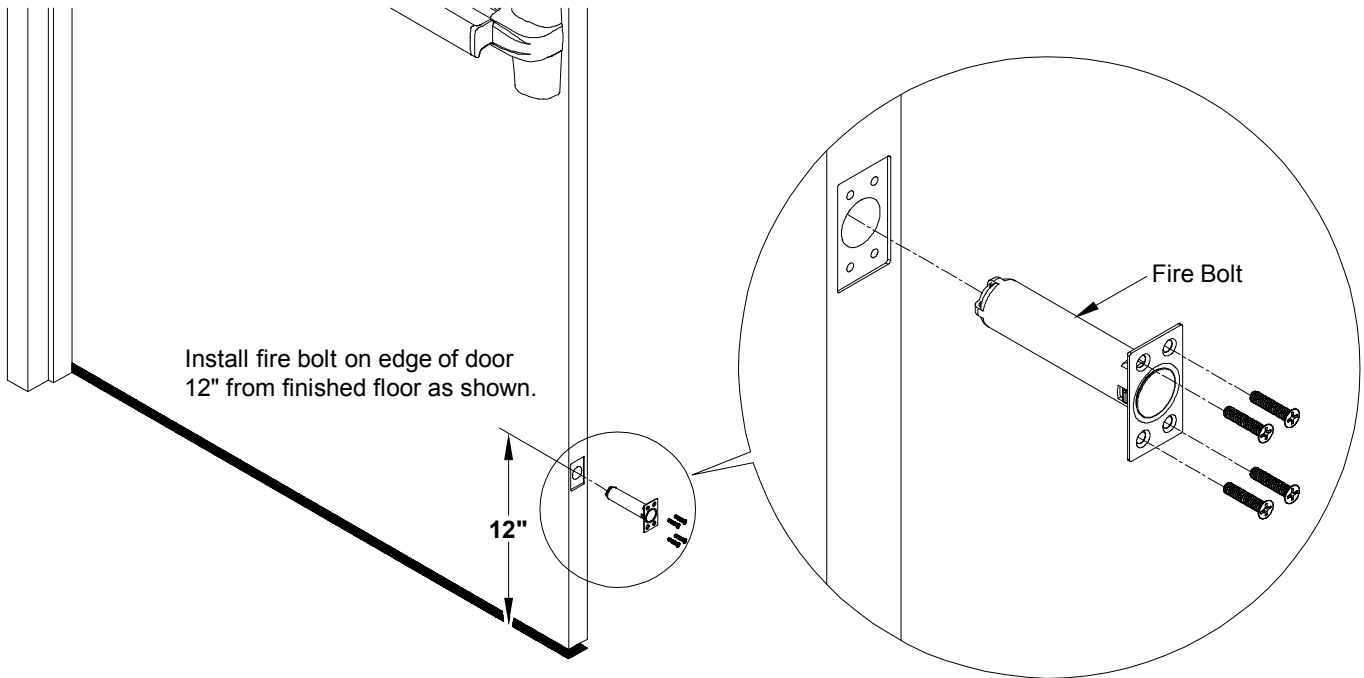
Apply second side screw through second hole in connecting bar with second hole in retractor and tighten two side screws.
NOTE: Verify side marking "A" & "B" in connecting bars for different handing door, see "TOP / BOTTOM ROD HANDING VERIFICATION" on back cover.

14 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.

INSTALL FIRE BOLT

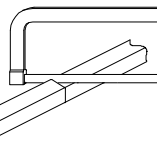


NOTE: Fire rated device with less bottom rod (LBR) applications must use FIRE BOLT.

CUT TOP ROD / EXTEND TOP ROD

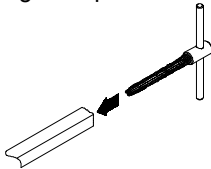
CUT TOP ROD

Cut off from flat side of rod.



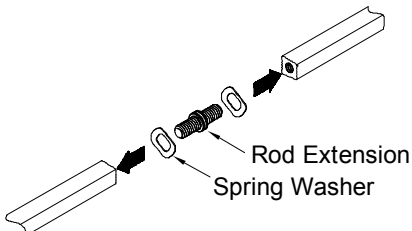
Step 1: Make sure the flat side of rod, and measure amount to cut off rod.

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

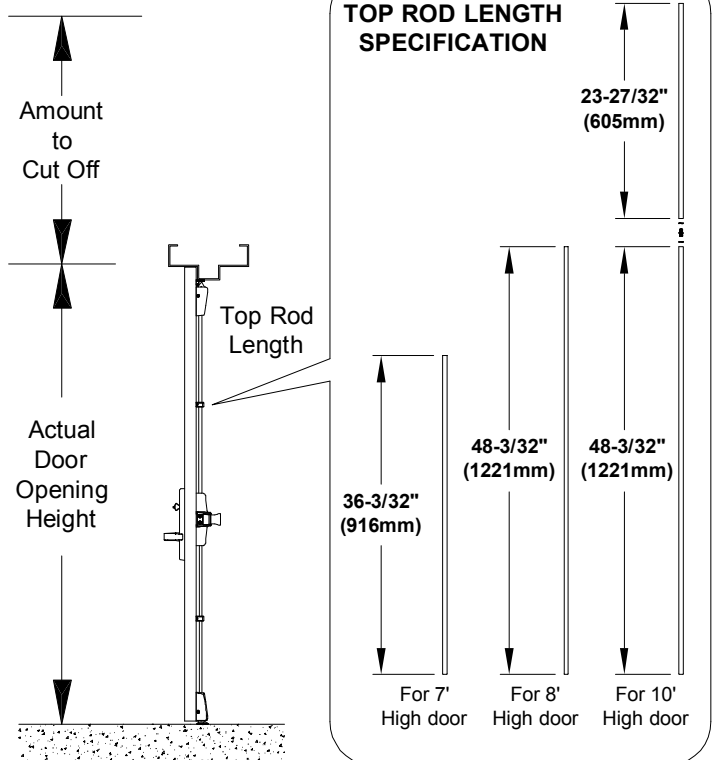


Step 2: Tap #1/4-20 ; 1" deep.

EXTEND TOP ROD

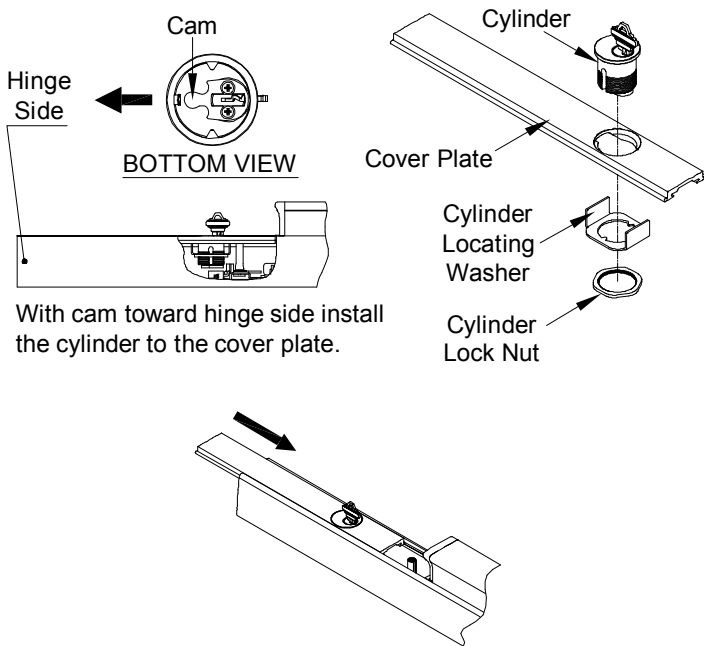


Install rod extension & spring washer to connect two(2) rods tightly.



OPTIONAL DOGGING

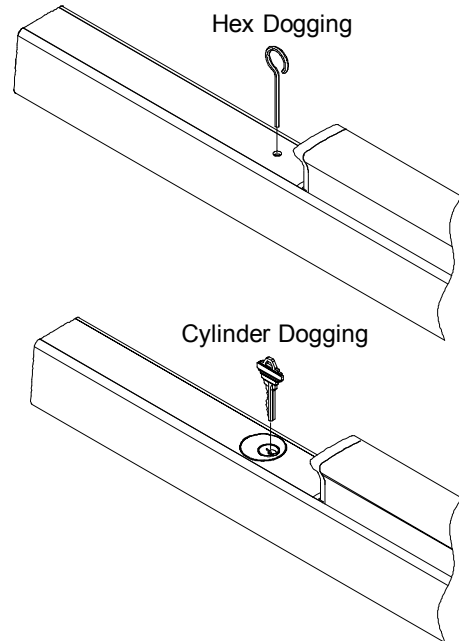
CYLINDER DOGGING



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

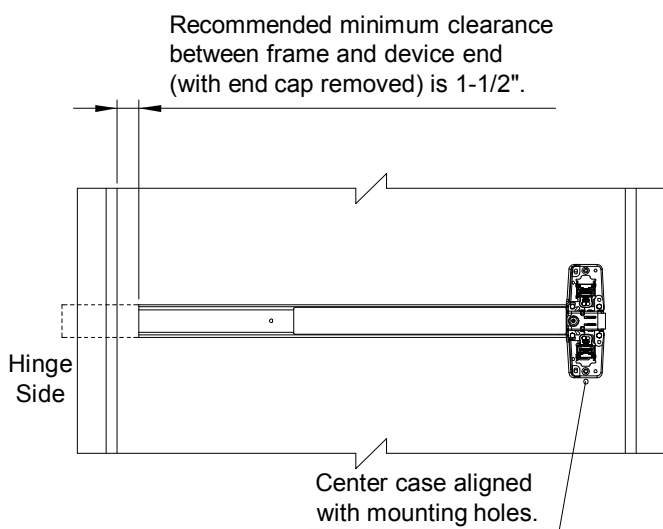
Slide cover plate in position in the mechanism case.

DOGGING CHECK



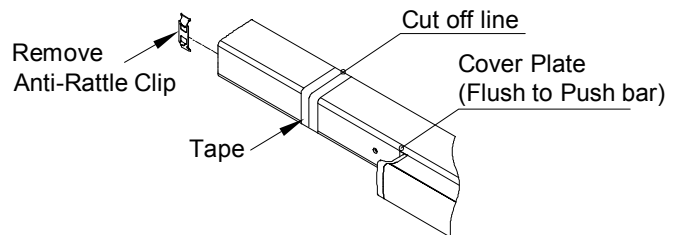
Depress push bar and turn hex wrench or key one full turn for dogging check.

CUT DEVICE (IF REQUIRED)

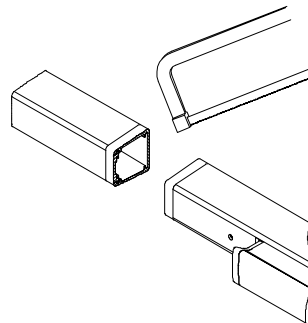


Recommended minimum clearance between frame and device end (with end cap removed) is 1-1/2".

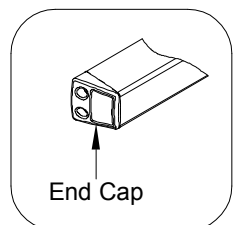
Center case aligned with mounting holes.



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

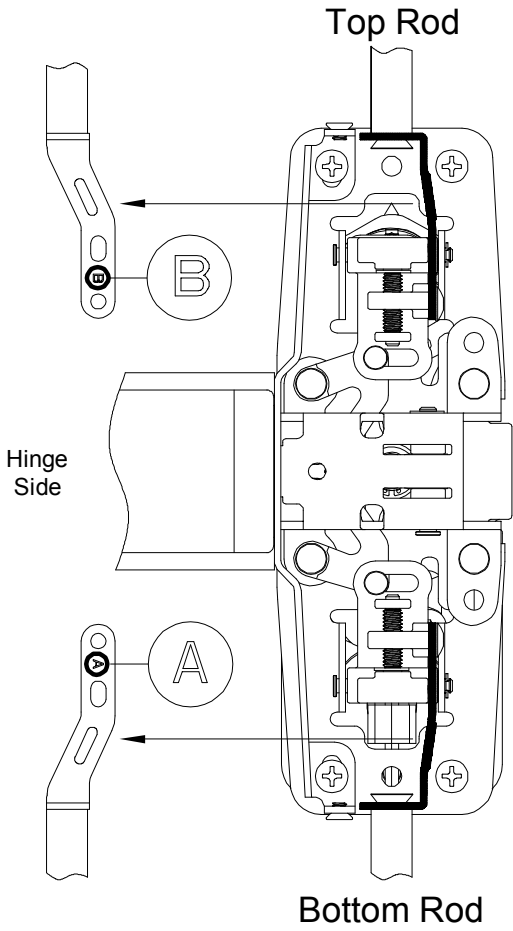


2. Cut off device and deburr.
NOTE: Device must be cut square for proper end cap fit.

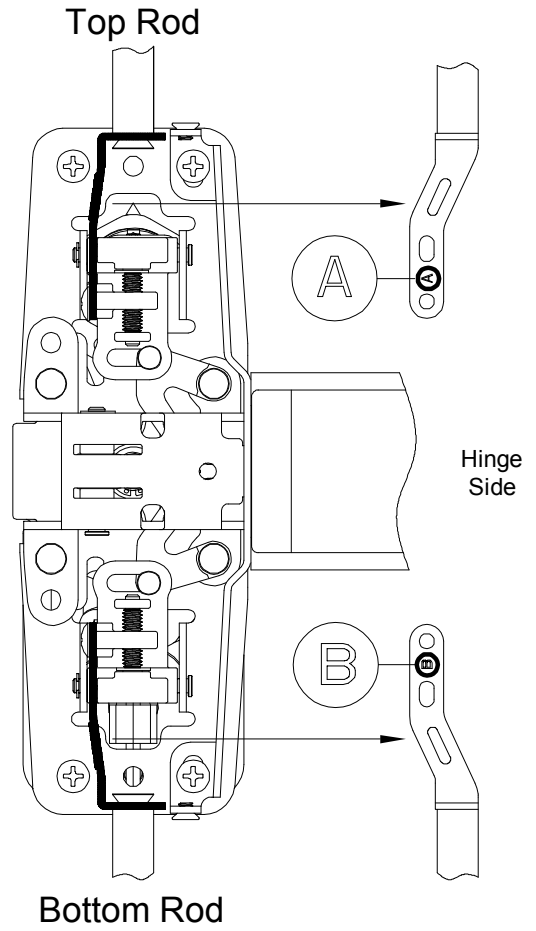


TOP / BOTTOM ROD HANDING VERIFICATION

RHR



LHR



DOOR HANDING

