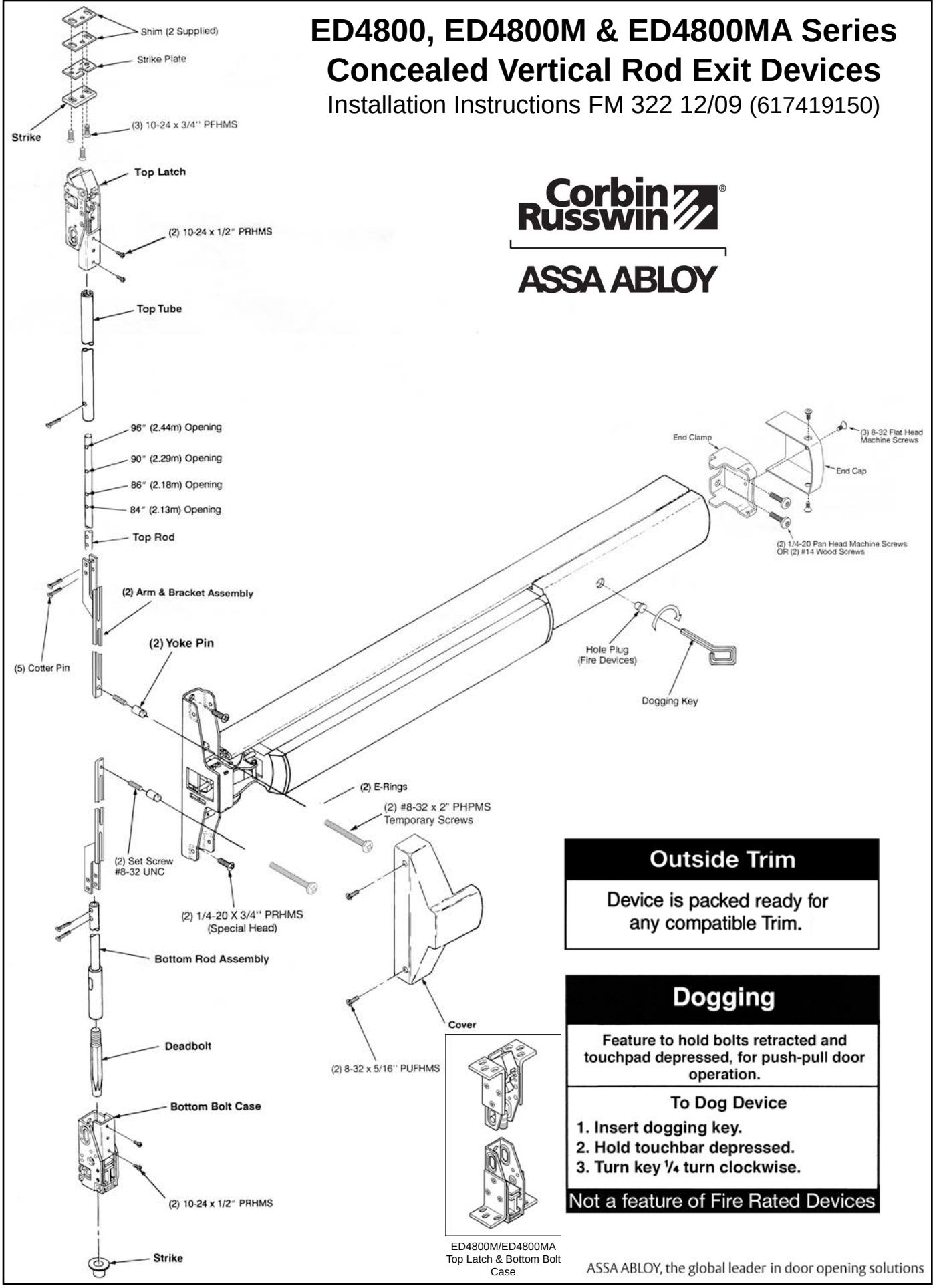
ED4800, ED4800M & ED4800MA Series
Concealed Vertical Rod Exit Devices

Installation Instructions FM 322 12/09 (617419150)

Corbin Russwin®

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ED4800M/ED4800MA Top Latch & Bottom Bolt Case

Outside Trim

Device is packed ready for any compatible Trim.

Dogging

Feature to hold bolts retracted and touchpad depressed, for push-pull door operation.

To Dog Device

1. Insert dogging key.
2. Hold touchbar depressed.
3. Turn key ¼ turn clockwise.

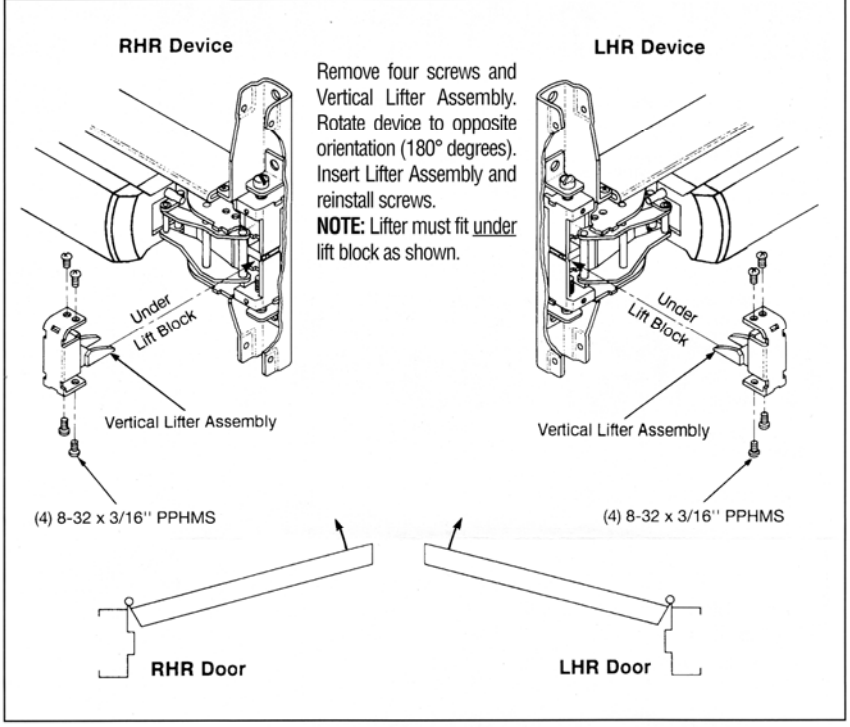
Not a feature of Fire Rated Devices

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General Information

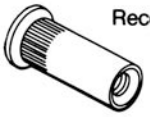
To Change Hands



Maintenance

1. Periodically remove covers and coat mechanisms with a silicone base lubricant. This is particularly required in corrosive environments for proper product function.
2. Check mounting fasteners periodically. Retighten if found loose. Apply screw looking compound (available at automotive part stores) or change part fasteners if screws continue back up.
3. Periodic checks and adjustments of strike are required to compensate for changes in the opening (e.g.; door sagging, etc....).

1/4-20 Sex Nut Option



Recommended for unreinforced metal doors.

Device	Quantity	Size
All (No Trim)	4	1/4-20
All (With Trim)	2	

Rod Extension Options ED4800 only



2" (51mm)
6" (152mm)
12" (305mm)
(Specify Device Finish)

Shim Kit Option

ED4800 - 697F358
ED4200M & ED4200MA - 697F338

Kit consists of (2) latch Head Shims (Device Cover seats on shim) and (2) End Cap Shims (End Cap seats on shim). Each shim is 1/8" (3.2mm) thick more than two shim thicknesses 1/4" (6.4mm), require longer device mounting screws (not included).

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Check Before Starting

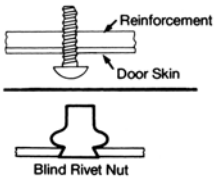
Unreinforced Doors or Frames

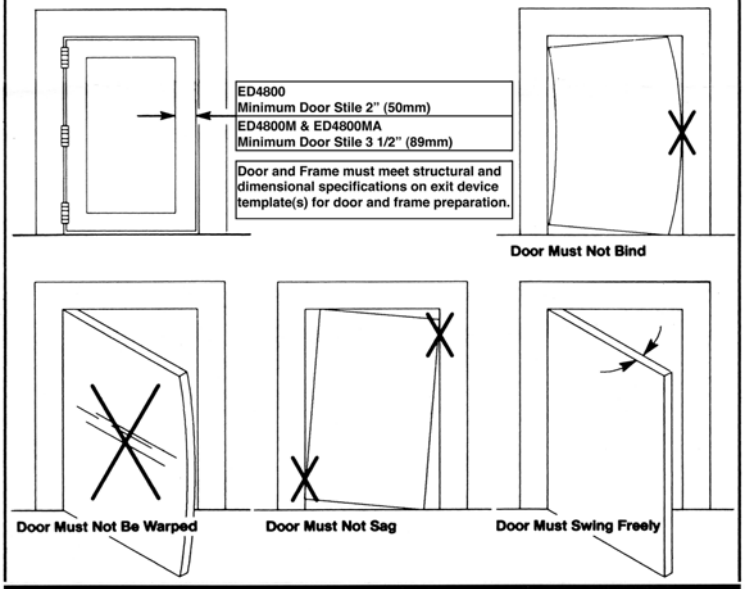
Doors and Frames with walls having a structural thickness (metal skin plus reinforcement) to engage less than (3) full screw threads, are considered unreinforced.

Unreinforced Doors: Use SNB (sex nuts and bolts).

Unreinforced Frames: Use Blind Rivet Nuts.

Recommended fasteners for unreinforced openings are not necessarily supplied by Corbin Russwin.

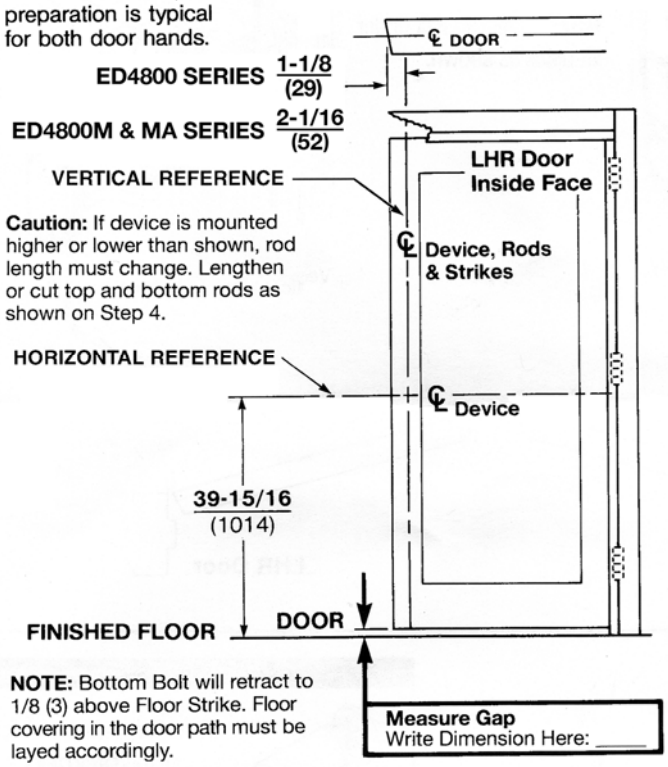




1. Mark Door

Locate and Mark Horizontal and Vertical Reference Centerlines as shown.

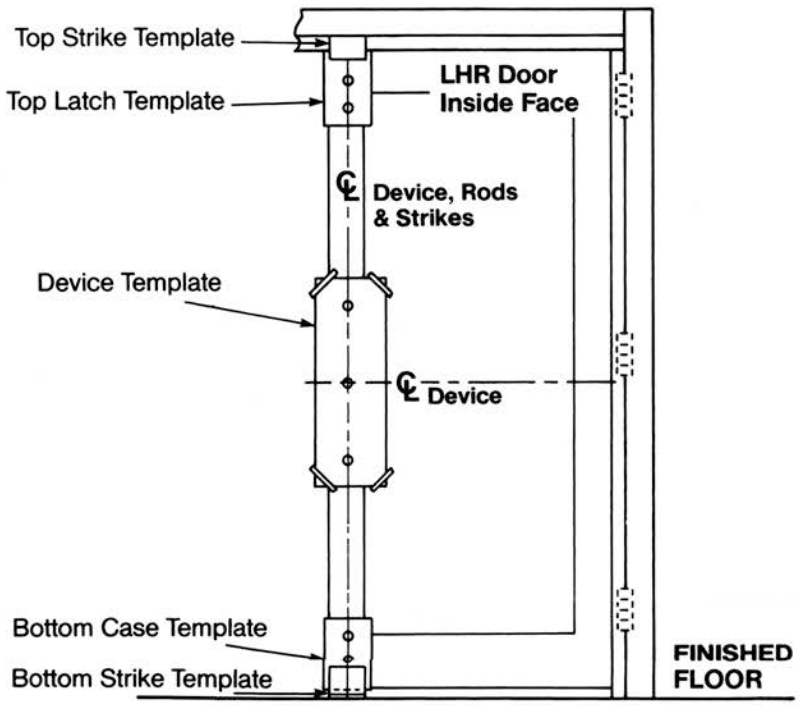
LHR door shown, preparation is typical for both door hands.



Single Door or Pair without Mullion

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2. Prepare Door, Frame & Sill



A. Locate "Device Template" aligning VERTICAL and HORIZONTAL DEVICE CENTERLINES on door and template. Tape template to door face.

B. Locate "Top Latch," "Top Strike," "Bottom Case," and "Bottom Strike" templates, aligned on centerline of Device, Rods and Strikes on door. Tape templates in place.

C. Locate and tape Trim Template to door (See instructions packed with Trim).

D. Spot and prepare holes:

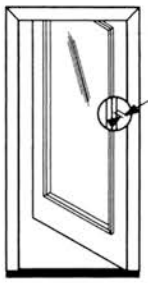
Device: Each (2) 1/4-20 Machine Screws (metal reinforced door), or (2) $\frac{3/8}{(10)}$ Dia. Sex Nuts & Bolts

Bolt Cases: Each (2) $\frac{7/32}{(5.50)}$ Dia. Holes (Door Inside Face Only)

Top Strike: (2) 10-24 Machine Screws,
NOTE: Third Screw MUST ONLY be used to lock Strike in final position (Step 8).

Bottom Strike: $\frac{5/8}{(16)}$ dia. x $\frac{3/4}{(19)}$ deep hole.

3. Clear Raised Door Molding



Device must seat flush on door surface, or on shims that keep it parallel to door face

(1) Shim Kit needed to clear each $\frac{1/8}{(3)}$ of raised molding.

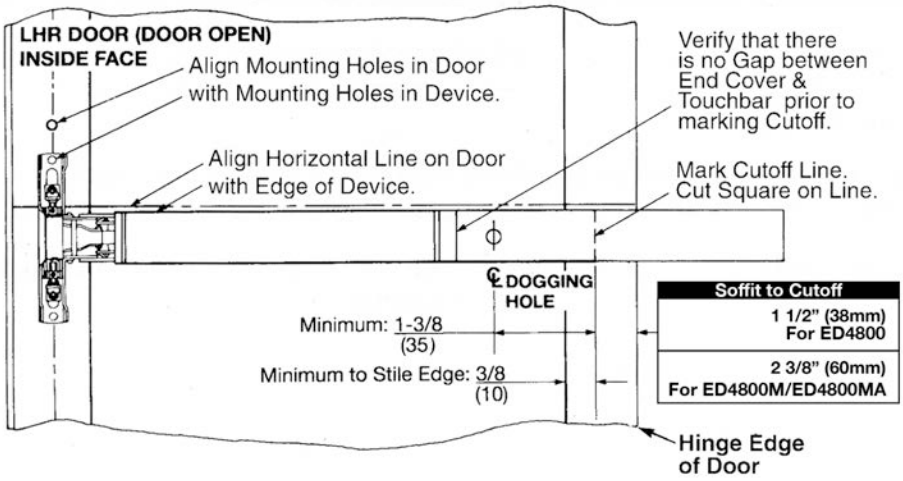
Longer mounting screws needed when more than (2) shim kits are used.

See Shim Kit Option on page 2.

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4. Size Device

Device must be field cut to size, unless standard opening and device are 36″ (0.91m), or 48″ (1.22m).



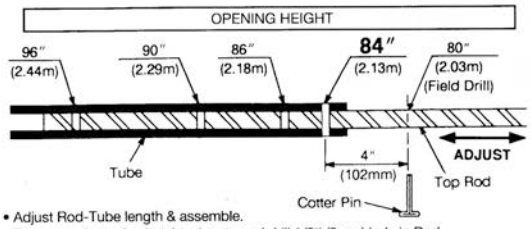
5. Rod Assembly & Preliminary Adjustment

ED4800

A. Remove door from opening. Set flat, Device side up. (Do not hang door until Step 8 of Device installation sheet).
B. Set length of Top Rod Assembly (See Detail 1).
C. Connect Top and Bottom Rods to Arm and Bracket Assemblies. (2 Cotter Pins each).
D. Align Rod Setup Gauge over Device cutouts and centerlines. Tape Gauge to Door Face.
E. Connect Top Latch to Rod Assembly. Latchbolt must be fully extended. (See Detail 2).
F. Set Top Latch Assembly in place on door. Maintain 7/8 (22) location from top of door as shown.
G. Align Yoke Pin hole in Top Arm and Bracket Assembly with Alignment Hole in Rod Setup Gauge. Adjust Top Latch and Rod as needed for proper alignment.
H. Thread Deadbolt into Bottom Rod Assembly. Set Bottom Rod Assembly in place on door. Align Yoke Pin hole in Bottom Arm and Bracket Assembly with Alignment Hole in Rod Setup Gauge. Adjust Bottom Bolt for proper length.

NOTE: Be certain Bottom Bolt is fully extended. (See Detail 3).

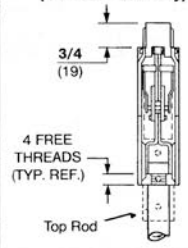
Detail 1 - Top Rod Length



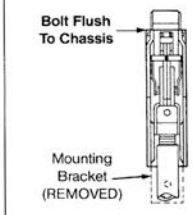
- Adjust Rod-Tube length & assemble.
- For unusual opening heights, locate and drill 1/8″ (3mm) hole in Rod.
- Openings over 96″ (2.13m) also require Rod Extensions threaded tight to Tube. Apply screw locking compound to extension male threads.

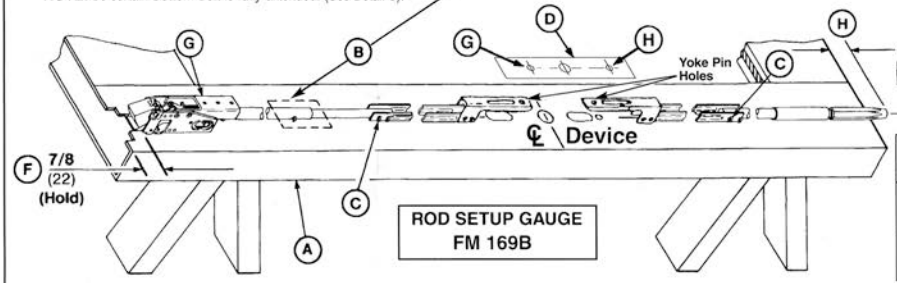
Detail 2 - Top Latch

Latchbolt Extended (Correct Assembly)



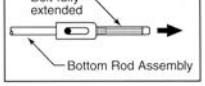
Latchbolt Retracted (Incorrect Assembly)





ROD SETUP GAUGE FM 169B

Detail 3 Bottom Bolt Assembly

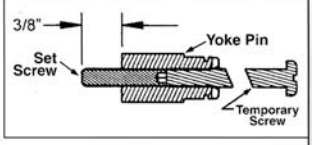


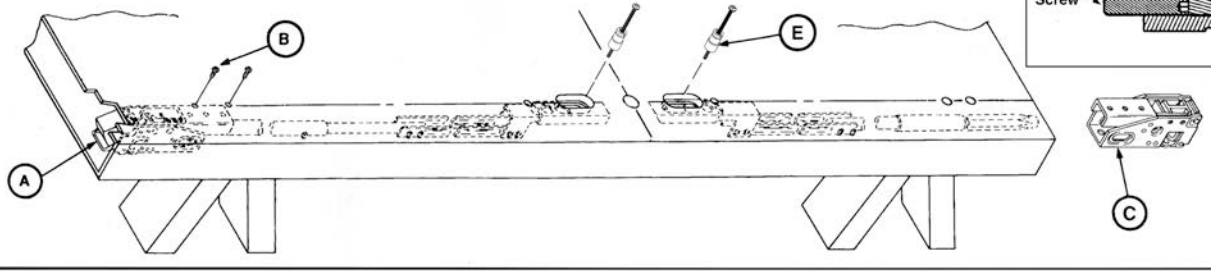
6. Install Rods

ED4800

A. Slide Rod Assemblies into door.
B. Attach Top Latch with (2) 10-24 x 1/2" PRHMS.
C. Install Bottom Bolt Case with (2) 10-24 x 1/2" PRHMS.
D. Thread Set Screws into Yoke Pins by inserting hex socket end inside Pin. Thread 8-32 x 2" PHPMS Temporary Screws into slotted end of Yoke Pins, until seated to hex head Set Screws (See Detail 1).
E. Install (2) Yoke Pin Assemblies into Arm & Bracket Assemblies.

Detail 1 - Yoke Pin Assembly





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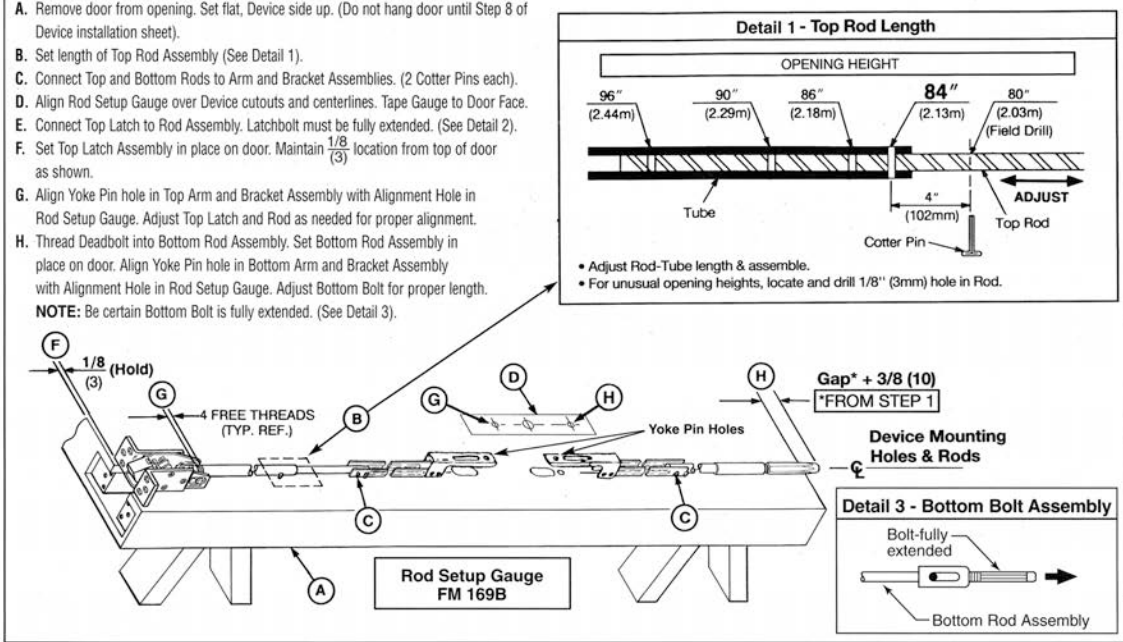
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5. Rod Assembly & Preliminary Adjustment

ED4800M & ED4800MA

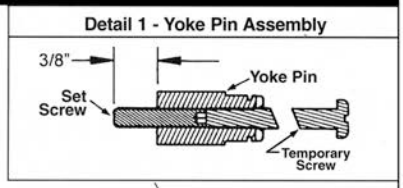
A. Remove door from opening. Set flat, Device side up. (Do not hang door until Step 8 of Device installation sheet).
B. Set length of Top Rod Assembly (See Detail 1).
C. Connect Top and Bottom Rods to Arm and Bracket Assemblies. (2 Cotter Pins each).
D. Align Rod Setup Gauge over Device cutouts and centerlines. Tape Gauge to Door Face.
E. Connect Top Latch to Rod Assembly. Latchbolt must be fully extended. (See Detail 2).
F. Set Top Latch Assembly in place on door. Maintain $\frac{1/8}{(3)}$ location from top of door as shown.
G. Align Yoke Pin hole in Top Arm and Bracket Assembly with Alignment Hole in Rod Setup Gauge. Adjust Top Latch and Rod as needed for proper alignment.
H. Thread Deadbolt into Bottom Rod Assembly. Set Bottom Rod Assembly in place on door. Align Yoke Pin hole in Bottom Arm and Bracket Assembly with Alignment Hole in Rod Setup Gauge. Adjust Bottom Bolt for proper length.
NOTE: Be certain Bottom Bolt is fully extended. (See Detail 3).

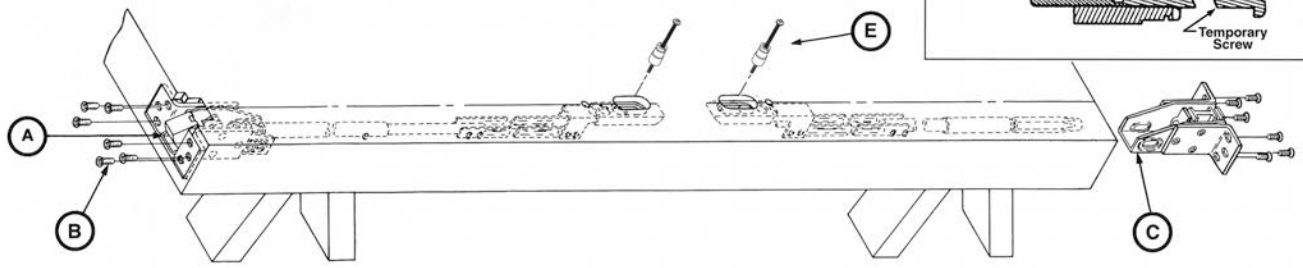


6. Install Rods

ED4800M & ED4800MA

A. Slide Rod Assemblies into door.
B. Attach Top Latch with (6) 10-24 x 1/2" PFHMS.
C. Install Bottom Bolt Case with (6) 10-24 x 1/2" PFHMS.
D. Thread Set Screw into Yoke Pins by inserting hex socket end inside Pin.
Thread 8-32 x 2" PHPMS Temporary Screws into slotted end of Yoke Pins, until seated to hex head Set Screws (See Detail 1).
E. Install (2) Yoke Pin Assemblies into Arm & Bracket Assemblies.





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7. Install Device

A. Mount Trim when required (Follow Instructions Packed with Trim).

B. Seat Device in place, Connect Device to Arm and Bracket Assemblies using the Temporary Screws to position Yoke Pins in Latch Head. Install E-Rings into Yoke Pin Grooves (See Detail 1).

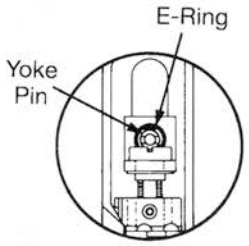
C. Fasten Device Latch Head using (2) 1/4-20 PRHMS or $\frac{3/8}{(10)}$ dia. SNB.

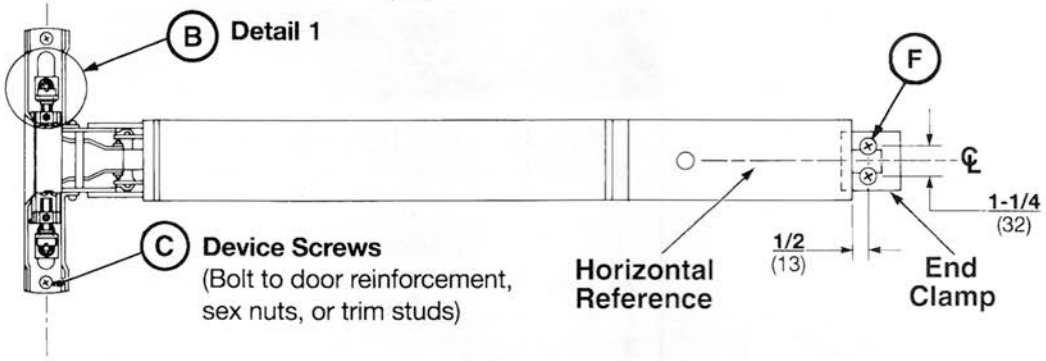
D. Remove Temporary Screws. NOTE: Be certain to retighten Yoke Pins after removal of Temporary Screws.

E. Center end of Device on horizontal reference line of door using End Clamp as a template to locate mounting holes.

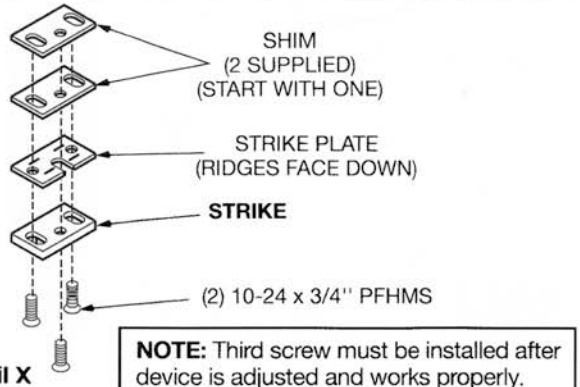
F. Prepare End Clamp mounting holes. Mount End Clamp using (2) 1/4-20 PRHMS or $\frac{3/8}{(10)}$ dia. SNB.

Detail 1
(Typical 2 Places)



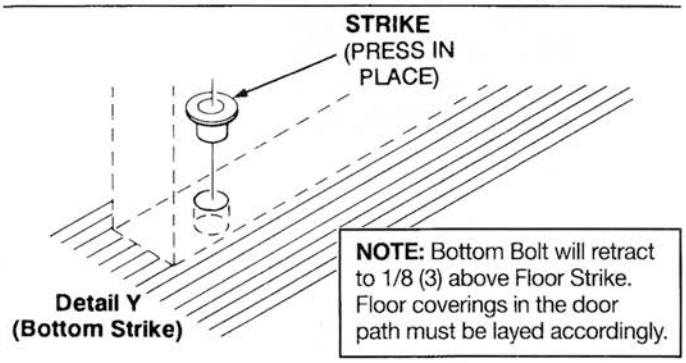


8. Install Strikes



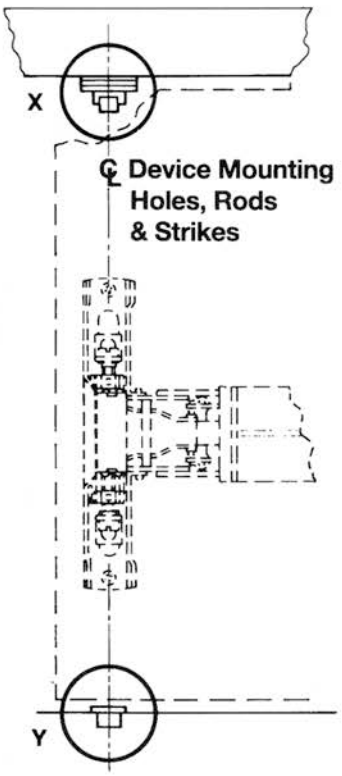
NOTE: Third screw must be installed after device is adjusted and works properly.

Detail X
(Upper Strike)



NOTE: Bottom Bolt will retract to 1/8 (3) above Floor Strike. Floor coverings in the door path must be layed accordingly.

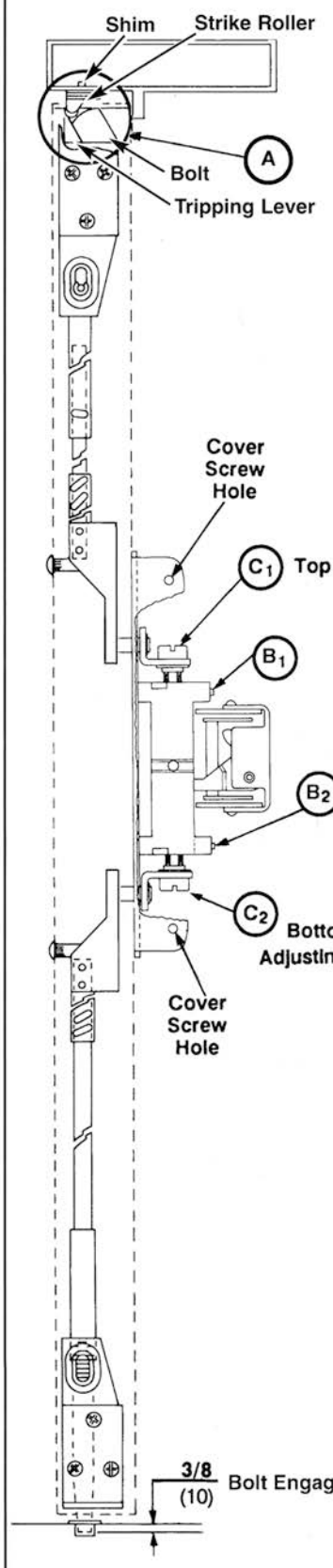
Detail Y
(Bottom Strike)



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9. Complete Installation

ED4800M & ED4800MA SHOWN



A. Rehang the door plumb and true to the opening. Set Strike Roller between tripping lever and bolt. DO NOT PRELOAD BOLT. Shim Strike as needed.

NOTE: Rods should move freely inside door. Bolts extend automatically and should deadlock when door closes and top strike hits tripping lever. Top Bolt should retract flat. Bottom Bolt should travel 1/2" and engage 3/8" into strike in down position, without dragging on floor surface in up position.

Test Device action by touchbar, by trim, and by dogging. Adjust as needed.

B. Rod Adjustment for Proper Bolt Throw

1. Use 3/32" hex wrench to loosen set screws **B1** and **B2**.
2. Adjust the top rod first with adjusting screw **C1**. With device in dogged position (panic devices) or touchbar fully depressed (fire devices) adjust top rod so that the top latch bolt is flush and the hold back feature is engaged. Lengthen top rod an additional 1/2 turn for proper latchbolt positioning.

C1 Top Rod Adjusting Screw — LONGER / TOP ROD / SHORTER

NOTE: If adjusting screws bottom out before proper device operation, door and device must be removed so larger adjustments may be made by threading rod in or out, or by moving cotter pin to different hole in rod (See Installation Instructions step 4).

3. Adjust bottom rod with adjusting screw **C2**. With top latch retracted in hold back position, and touch bar dogged or fully depressed, adjust bottom rod so that the deadbolt clears the strike by 1/16". The bottom rod should be in position in the active case with the square head of the connector hanging in the slide. (See note in step 2 above).

C2 Bottom Rod Adjusting Screw — LONGER / BOTTOM ROD / SHORTER

4. Check device operation by opening and closing the door. An additional minor adjustment may be required for full retraction and correct strike engagement.

NOTE: To avoid thread damage and provide positive locking, be sure set screws engage flats on adjusting screws.

C. After acceptable device function, install third screw in top strike to lock strike in position using 10-24 x 3/4" PFHMS.

D. Install device cover and end cap using (2) 8-32 PFHMS each.

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