ED4800, ED4800M & ED4800MA Series
Concealed Vertical Rod Exit Devices
Installation Instructions FM 322 5/10 (617419150)

**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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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....).
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" (76mm), 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.

ED4800 SERIES
1-1/8" (29)

ED4800M & MA SERIES
2-1/16" (52)

VERTICAL REFERENCE

Caution: If device is mounted higher or lower than shown, rod length must change. Lengthen or cut top and bottom rods as shown on Step 4.

HORIZONTAL REFERENCE

FINISHED FLOOR

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

Measure Gap
Write Dimension Here:

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) 3/8 (10) Dia. Sex Nuts & Bolts
   Bolt Cases: Each (2) 7/32 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: 5/8 (16) dia. x 3/4 (9) 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 1/8 (3)
   Longer mounting screws needed when more than (2) shim kits are used.
   See Shim Kit Option on page 2.
4. Size Device

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

- Align Mounting Holes in Door with Mounting Holes in Device.
- Align Horizontal Line on Door with Edge of Device.
- Verify that there is no Gap between End Cover & Touchbar prior to marking Cutoff.
- Mark Cutoff Line, Cut Square on Line.

Minimum: 1-3/8 (35)
Minimum to Stile Edge: 3/8 (10)

5. Rod Assembly & Preliminary Adjustment

ED4800

A. Remove door from opening. Set flat, Device side up. (Do not hang door until Step 6 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 with 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).

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 and inside Pin.
E. Install (2) Yoke Pin Assemblies into Arm & Bracket Assemblies.

Thread 8-32 x 2" PRHMS Temporary Screws into slotted end of Yoke Pins, until seated to hex head. Set Screws (See Detail 1).

ASSA ABLOY, the global leader in door opening solutions
5. Rod Assembly & Preliminary Adjustment

A. Remove door from opening. Set flat, Device side up. (Do not hang door until Step B 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 1/16" 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 Drive Bolt 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 2).

6. Install Rods

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" PFPMs 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.
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 3/8 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 3/8 dia. SNB.

8. Install Strikes

SHIM
(2 SUPPLIED)
(START WITH ONE)

STRIKE PLATE
(RIDGES FACE DOWN)

STRIKE

(2) 10-24 x 3/4" PFHMS

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

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

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


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.

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).

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.