

Surface Vertical Rod

ED5400 (A) Series & **ED5470** (B) Series

Exit Devices





This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

Exit Devices

Installation Instructions



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Exit Devices

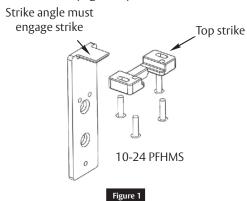
Installation Instructions



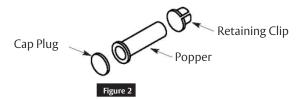
1

General Information

Top bracket and strike required for ED5470. (Figure 1)



Popper assembly required for ED5470 (B) Series Fire-Rated Devices with Less Bottom Rod (M55 Option). (Figure 2)



Note

Refer to separate instruction sheet FM547.

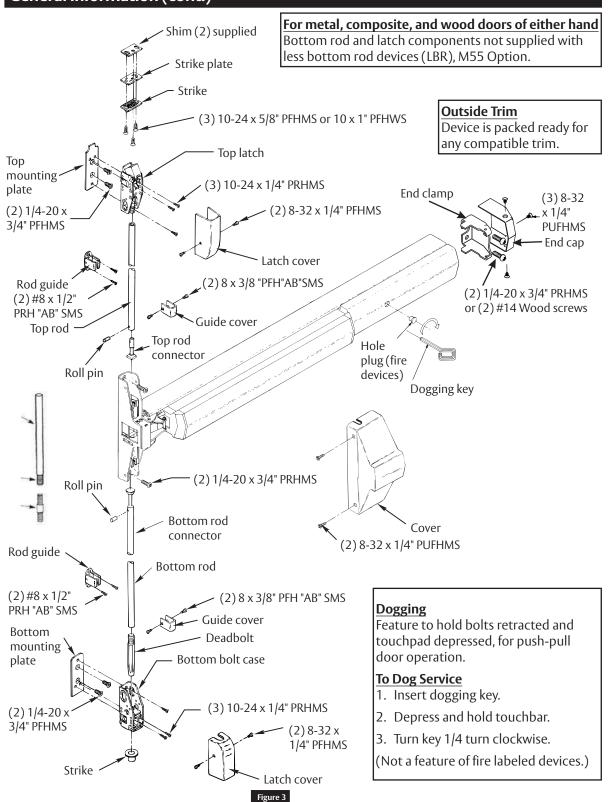
Note

All dimensions are in inches unless otherwise noted.



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1 General Information (cont.)





1

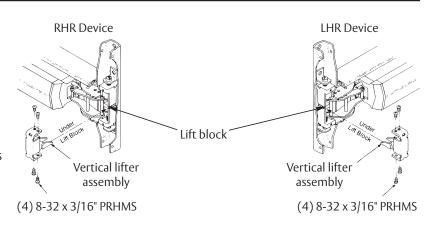
General Information (cont.)

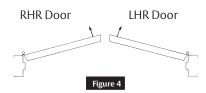
a Change Hands

Remove four (4) screws and vertical lifter assembly. Rotate device to opposite hand (180°). Insert lifter assembly under lift block and re-install screws.

Note

Lifter must fit under lift block as shown. (Figure 4)





b

1/4-20 Sex Nut Option

Recommended for wood composite or unreinforced metal doors. (Figure 5)

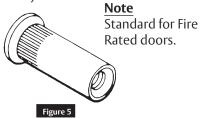
Device	Quantity	Size	
No trim	8	1/4 - 20	
With trim	6	1/4 - 20	

c

Rod Extension Options



- 2" (51 mm)
- 6" (152 mm)
- 12" (305 mm)
- 24" (610 mm)
- (Specify device finish)





1 General Information (cont.)

d Maintenance

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

e Shim Kit Option

697F348 Black Finish

- Kit consists of (2) Latch Head Shims (Device Cover seats on shim) and (2) End Clamp Shims (End Cap seats on shim), (2) Top and Bottom Latch Shims (Bolt Case Mounting Plates seat on shim), and (4) Rod Guide Shims.
- Each shim is 1/8" (3.2 mm) thick. More than two shim thicknesses 1/4" (6.4 mm), require longer device mounting screws (not included).

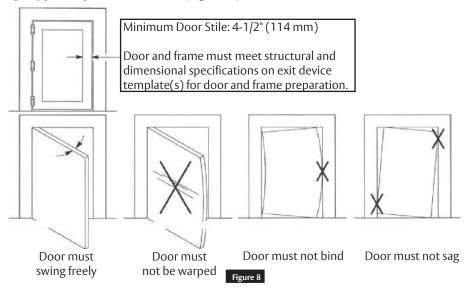
2 Preparation

a Check Before Starting

Unreinforced Doors or Frames (Figure 8)

- Doors and Frames with walls having a structural thickness (metal skin plus reinforcement or solid hardwood) 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 (Figure 7).





Exit Devices

Installation Instructions



Single

Door

or Pair

Without

Mullion

2 Preparation (cont.)

b Mark Door

Locate and mark horizontal and vertical centerlines as shown. (Figure 9)

LHR door shown. Preparation is typical for both door hands.

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 in Step 3c.

LBR

For ED5470 Series Less Bottom Rod Devices, skip bottom latch and strike
Installation steps and see separate instructions for ED5470 Series top latch and strike.

Horizontal reference installation steps and see separate

Note

Less Bottom Rod Devices should not be used where security is a primary concern.

atch

ot be used

39-15/16"

(1014 mm)

Door

Measure Gap
Write Dimension here: XXXX"

Figure 9

Door
 ■

LHR Door

Inside Face

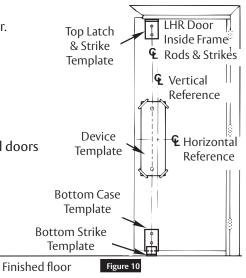
2-3/4" (70 mm)

c Prepare Door, Frame, and Sill

- A. Locate Device Template aligning VERTICAL REFERENCE and HORIZONTAL REFERENCE lines on door and template. Tape template to door face. (Figure 10)
- B. Extend centerline of Rod and Strikes from Device Template to top and bottom of door.
- C. Locate Top Latch/Strike, Bottom Case, and Bottom Strike templates, aligned on centerline of Rods and Strikes on door. Tape templates in place and mark holes.
- D. Locate and tape Trim Template to door (see instructions with Trim).
- E. Mark and prepare holes per installation template:
 - Device and Bolt Case Plates:

Each: (2) 1/4-20 Machine Screws for metal reinforced doors OR (2) 3/8" (10 mm) Dia. Sex Nuts & Bolts.

- **Top Strike:** ED5400 Series: (2) 10-24 Machine Screws, or (2) #10 Wood Screws. ED5470 Series: (4) 10-24 Machine Screws.
- **Bottom Strike:** 5/8" (16 mm) Dia. 3/4" (19 mm) Deep hole.

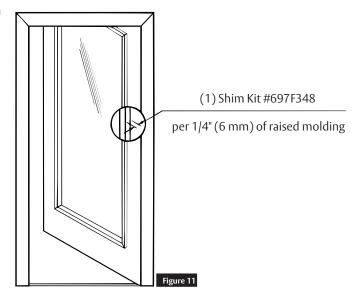




2 Preparation (cont.)

d Clear Raised Door Molding

Device must seat flush on door surface or on the shims that keep it parallel to door face. (Figure 11)

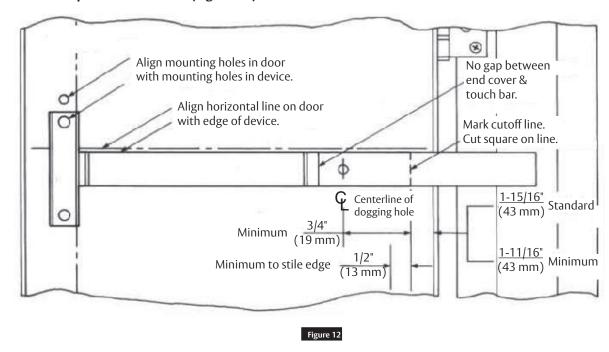


Longer mounting screws are needed when more than (2) shims of 1/8" thick are used. See Shim Kit Option in Step 1e.

e Size Device

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

LHR Door Open 90° Inside Face (Figure 12)



Exit Devices

Installation Instructions

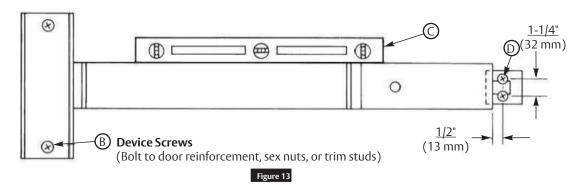


3

Installation

a Install Device

- A. Mount trim (Follow instructions with trim).
- B. Seat bar in place. Fasten device head (2 PRHMS or SNB). (Figure 13)
- C. Set bar level. Locate end clamp holes.
- D. Prepare end clamp mounting holes. Mount end clamp (2 #1/4-20 PRHMS or 3/8" (10 mm) dia. SNB).

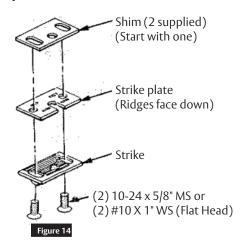


- E. Check slide action (Slide travel = 9/16" (14 mm)
 - Depress touchbar (slide should move up). Release touchbar (slide should fall back to original rest position).
 - Activate trim (slide should move up). Release trim activator (slide should fall back to rest position).
 - NOT FOR FIRE DEVICES Depress touchbar, turn dogging key clockwise (bar must remain depressed, slide must remain in up position). Turn dogging key counterclockwise (bar should extend, slide should fall back to rest position).
- F. Tighten all mounting screws.

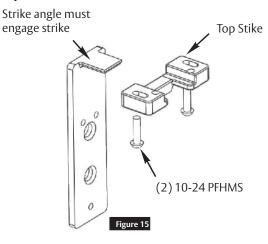
b

Set Latches, Strikes, and Guides

Top Strike Detail for ED5400 Series



Top Strike Detail for ED5470 Series



Exit Devices

Installation Instructions



3

Installation (cont.)

C

Prepare Rods

Top Rod (Figure 16)

• Ready for 84" (2134 mm) Openings

Openings Under 84 (2134)

For top rod cutoff length, deduct Opening Height from 84" (2132 mm).

Example:

Opening = 80" (2032 mm) 84-80 = 4" or (2134 mm) - (2032 mm) = (102 mm) Top rod must be cut 4" (102 mm).

Openings Over 84 (2134)

For top rod additional length, deduct 84" (2134 mm) from Opening Height.

Example:

Opening = 99" (2515 mm) 99" - 84" = 15" or (2515 mm) - (2134 mm) = (381 mm) The top rod must be lengthened 15" (381 mm).

To Lengthen Rods (Figure 17)

- Use Rod Extension(s) to extend Rod to length needed or longer (2", 6", 12", or 24" Rod Extensions available).
- Cut excess length from end of rod with pin hole.
- Apply screw locking compound (available at automotive parts store) to Rod Extension(s) male threads. Thread Extension(s) until seated tight over Rod.

To Cut Rods

- Cut from the end with pin hole. NEVER CUT THREADED END.
- Press Jig until it bottoms over Rod.
- Drill 1/8" (3 mm) dia. hole thru, 3/8" (10 mm) from end of Rod.

Bottom Rods (Figure 18)

• Ready for 39-15/16" (1014 mm) Floor to device center

To Lower Device

- Bottom Rod cutoff length is distance that device was lowered below 39-15/16" (1014 mm).
- Add to top rod a length equal to the bottom rod cut.

Example:

Device at 36" (914 mm) from floor 39-15/16" - 36" = 3-15/16" (100 mm) The top rod must be lengthened 3-15/16" (100 mm)

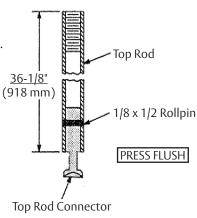
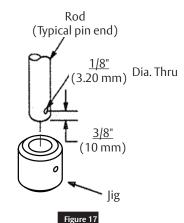
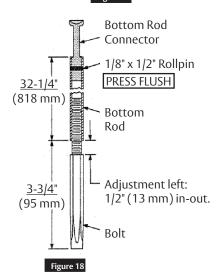


Figure 16





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Exit Devices

Installation Instructions



Installation (cont.)

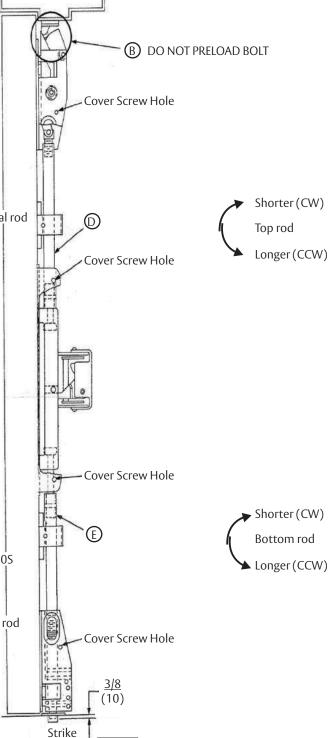
d Complete Installation

- A. Install rods as shown. (Figure 19)
- B. Set strike roller between tripping lever and bolt. Adjust and shim strike as needed.
- C. Test device action by touchbar, by trim, and by dogging. ADJUST AS NEEDED. Uppe bolt should retract 1/2" (12 mm).
 Bolts extend when door shuts and top strike hits tripping lever.
- D. Adjust bottom rod (tilt rod out and turn).
- E. Adjust top rod (tilt rod out and turn).
- F. After acceptable device function, install third screw Concealed vertical rod in top stike to lock stike in position (ED5400) 10-24 x 5/8" FHMS. Install two (2) remaining screws in top to lock strike (ED5470).
- G. Install latch covers, rod guide covers, and device cover.See Figure 1 for fastener specifications.

MAINTENANCE:

- 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 locking compound (available at automotive part stores) or change part fasteners if screws continue to back up.
- 3. Periodic checks (and adjustments) of rods is required to compensate for changes in the opening (e.g. door sagging).

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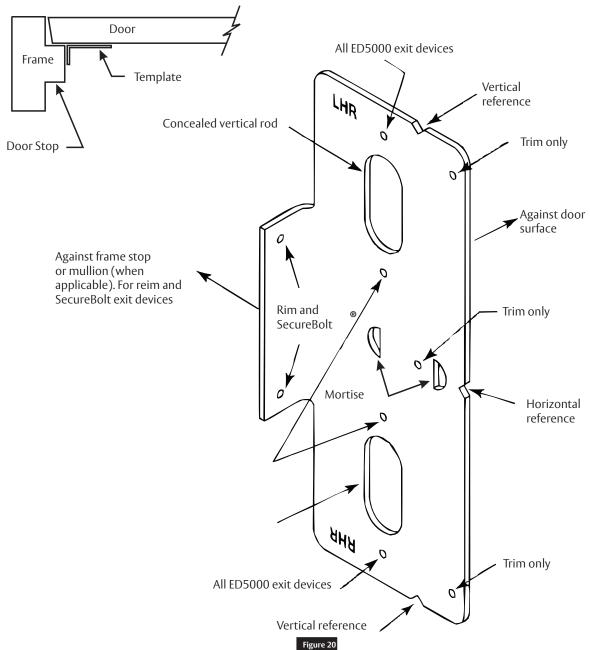
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4

Plastic Installation Template for ED5000 Exit Devices

For use in conjunction with instruction sheets and door marker templates packed with exit device. Holes and slots are identified below by exit device series and trim. Prep door and frame for only those features required for the exit device being installed.





Installation Instructions



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Exit Devices

Installation Instructions



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Installation Instructions



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Corbin Russwin, Inc. 225 Episcopal Road Berlin, CT 06037 USA Phone: 800-543-3558 Fax: 800-447-6714 www.corbinrusswin.com