Installation Instructions

ED5400 (A) Series
ED5470 (B) Series
Surface Vertical Rod Exit Devices

FM164 (09/13)

In U.S.:
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In Canada:
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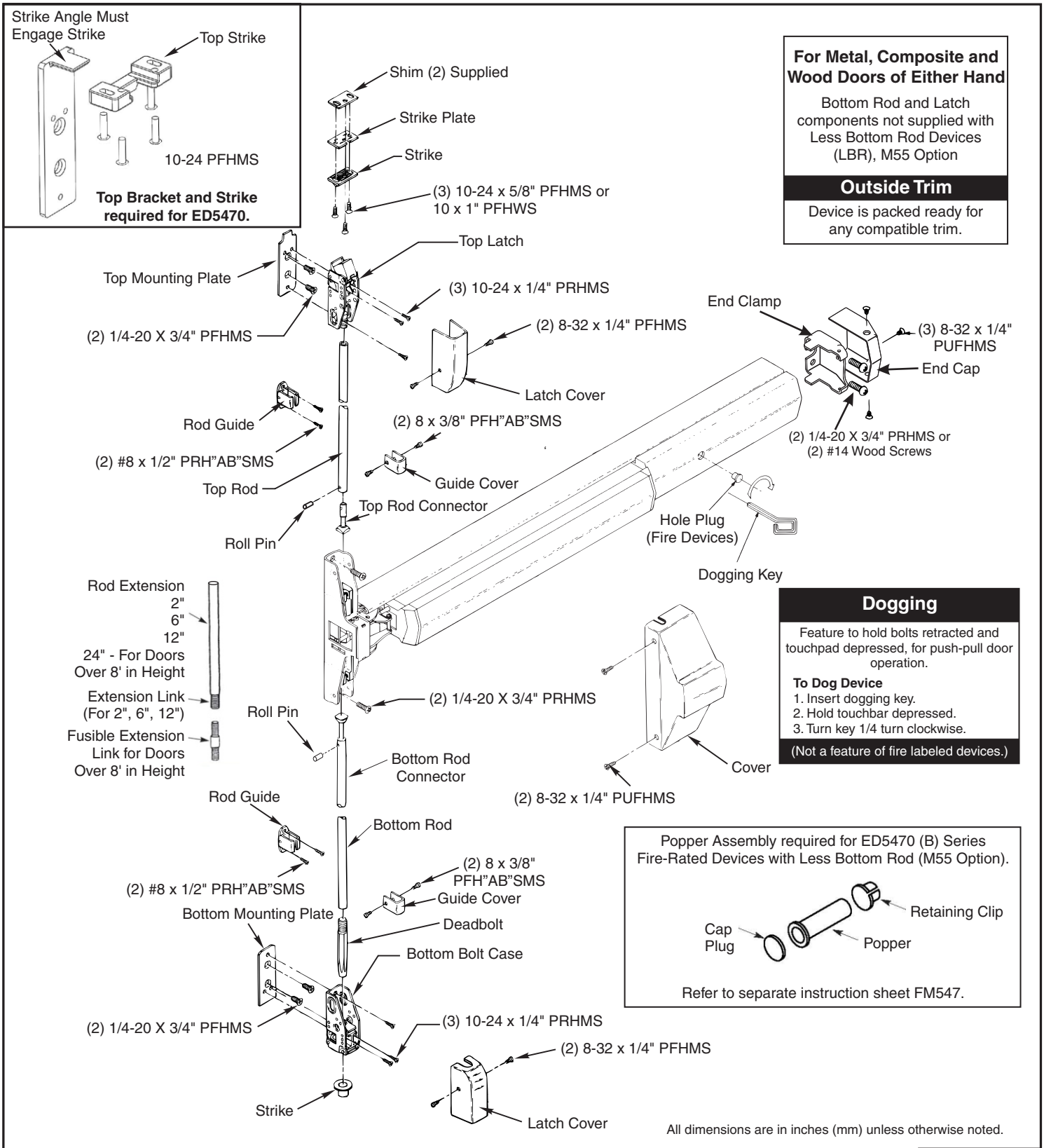
160 Four Valley Drive
Vaughan, Ontario, Canada L4K4T9
www.assaabloy.ca

Technical Product Support: Phone: 888-607-5703



For Metal, Composite and Wood Doors of Either Hand

Bottom Rod and Latch components not supplied with Less Bottom Rod Devices (LBR), M55 Option

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 1/4 turn clockwise.

(Not a feature of fire labeled devices.)

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

Refer to separate instruction sheet FM547.

All dimensions are in inches (mm) unless otherwise noted.

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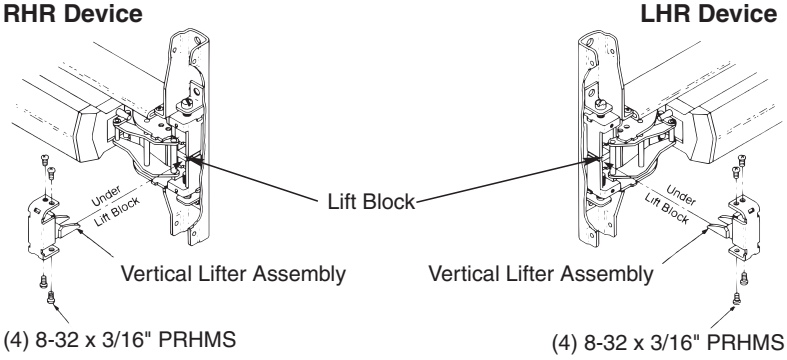
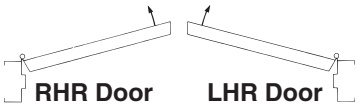
To Change Hands

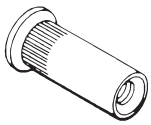
RHR Device **LHR Device**



Remove (4) Screws and Vertical Lifter Assembly. Rotate device to opposite hand (180 degrees). Insert Lifter Assembly under Lift Block and re-install screws.
Note: Lifter must fit under lift block as shown.



1/4-20 Sex Nut Option



Recommended for wood composite or unreinforced metal doors.

Standard for Fire Rated doors.

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

Rod Extension Options



2" (51mm)
6" (152mm)
12" (305mm)
24" (610mm)
(Specify Device Finish)

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 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).

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" (3.2mm) thick. More than two shim thicknesses 1/4" (6.4mm), require longer device mounting screws (not included).

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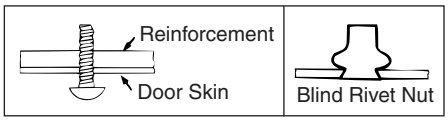
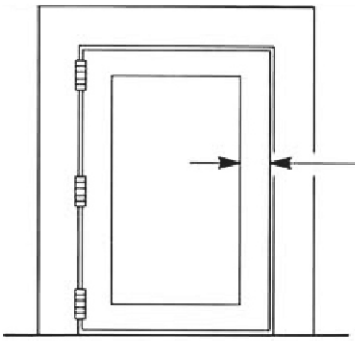
Check Before Starting





Minimum Door Stile: 4-1/2" (114mm)
Door and frame must meet structural and dimensional specifications on exit device template(s) for door and frame preparation.

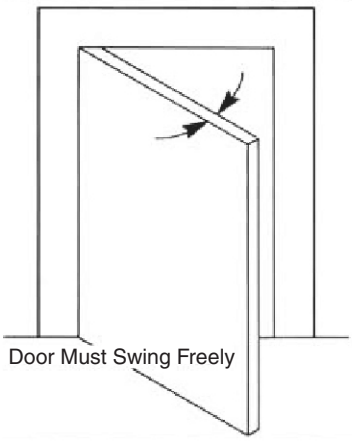
Unreinforced Doors or Frames

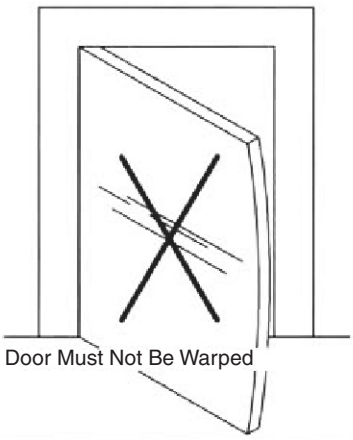
Doors and Frames with walls having a structural thickness (metal skin plus reinforcement or solid hardwood) to engage less than (3) full screw threads are considered unreinforced.

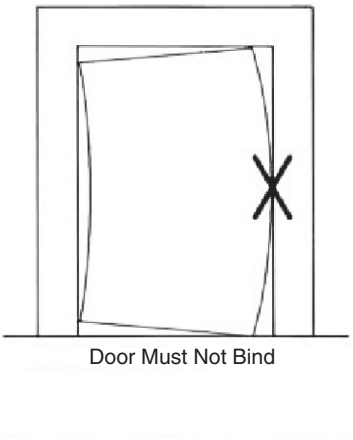
Unreinforced Doors: Use SNB (sex nuts and bolts).

Unreinforced Frames: Use Blind Rivet Nuts.

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


Door Must Swing Freely


Door Must Not Be Warped


Door Must Not Bind


Door Must Not Sag

1. Mark Door

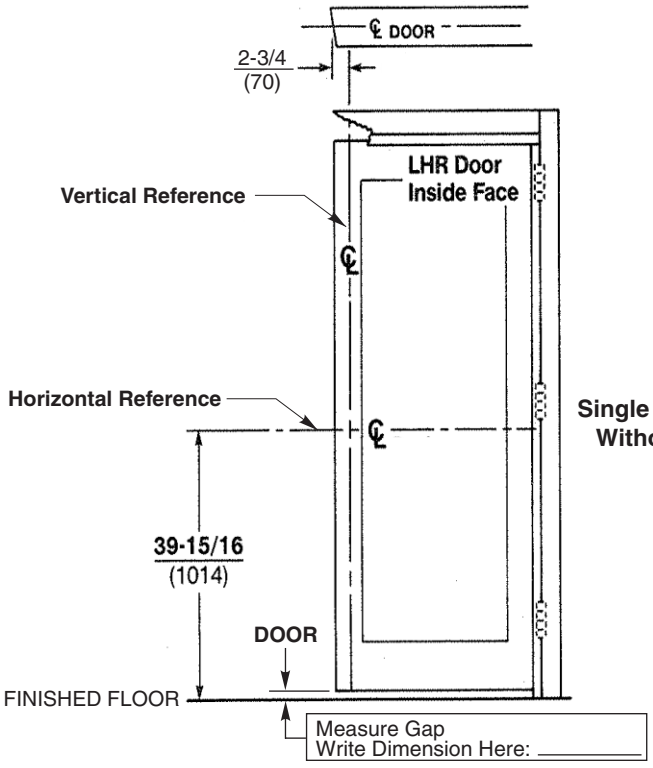
Locate and Mark Horizontal and Vertical Centerlines as shown.

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

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 7.

LBR - For ED5470 Series Less Bottom Rod Devices, omit bottom latch and strike installation steps and see separate instructions for ED5470 Series top latch and strike.

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



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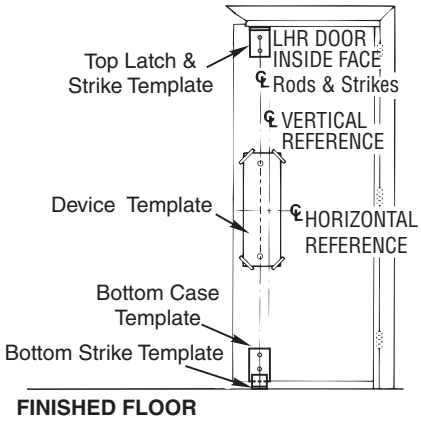
2. Prepare Door, Frame, & Sill

A. Locate "Device Template" aligning VERTICAL REFERENCE and HORIZONTAL REFERENCE lines on door and template. Tape template to door face.
B. Extend centerline of Rod and Strikes from "Device Template" to door top and bottom, on door face.
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 packed with Trim).
E. Mark and prepare holes per installation template:

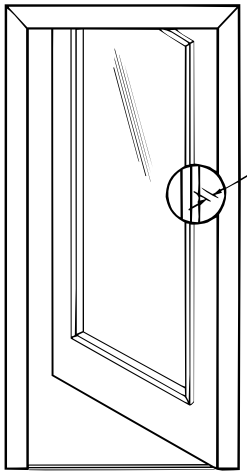
Device and Bolt Case Plates:
Each (2) 1/4-20 Machine Screws for metal reinforced doors OR
(2) 3/8" (10) Dia. Sex Nuts & Bolts

Top Strike: For ED5400 Series (2) 10-24 Machine Screws, or
(2) #10 Wood Screws
For ED5470 Series (4) 10-24 Machine Screws

Bottom Strike: 5/8" (16) Dia. 3/4" (19) Deep hole



3. Clear Raised Door Molding



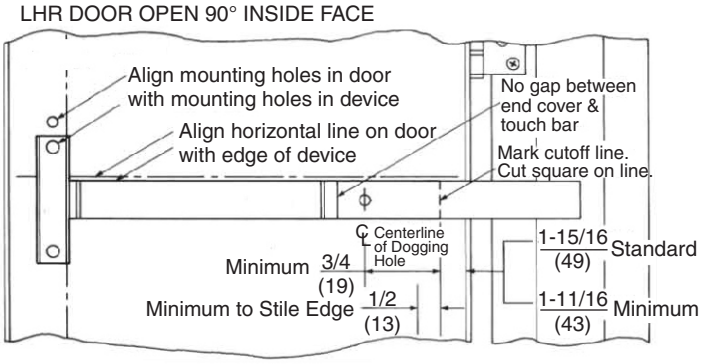
Device must seat flush on door surface or on shims that keep it parallel to door face.

(1) Shim Kit #697F348
per 1/4" (6mm) of raised molding

Longer mounting screws needed when more than (2) shim thicknesses of 1/8" (3) are used. See Shim Kit Option on page 2.

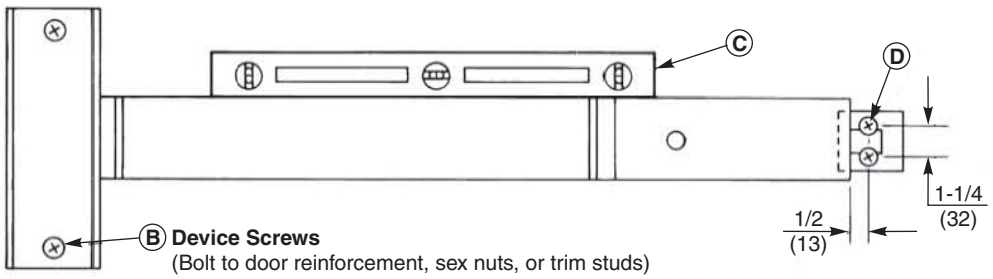
4. Size Device

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



5. Install Device

A. Mount trim (Follow Instructions Packed with Trim).
B. Seat bar in place. Fasten device head (2 PRHMS or SNB).
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) dia. SNB).



E. Check slide action (Slide travel ≅ 9//16" (14).
1. Depress touchbar (slide should move up). Release touchbar (slide should fall back to original rest position).
2. Activate trim (slide should move up). Release trim activator (slide should fall back to rest position).
3. (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.

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6. Set Latches, Strikes & Guides

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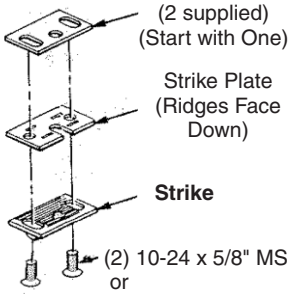
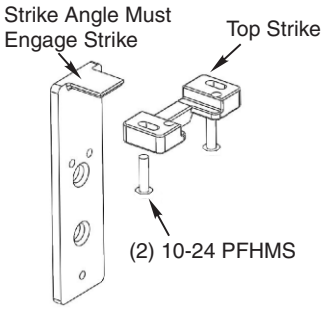
Top Strike Detail for ED5400 Series



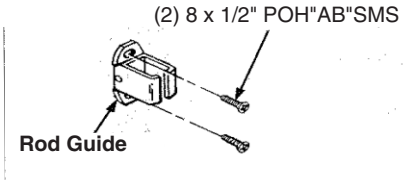
NOTE: Reserve third screw for Step 8 Ⓔ.

Top Strike Detail for ED5470 Series



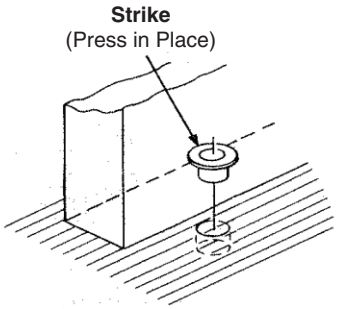
NOTE: Reserve two screws for Step 8 Ⓔ.

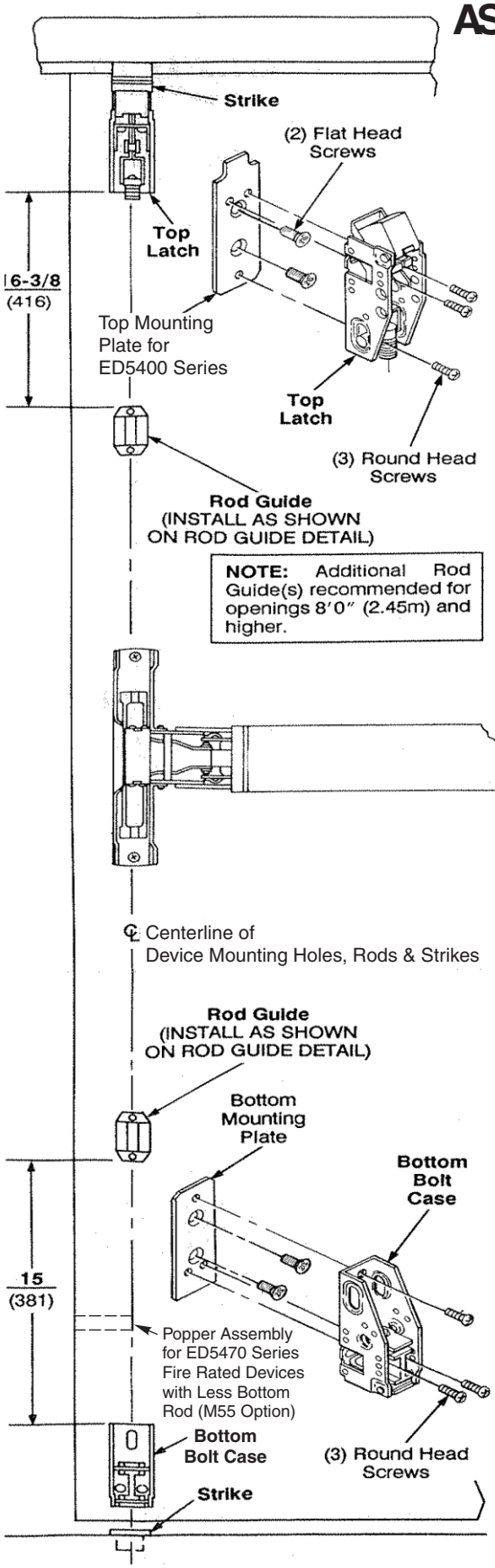
Rod Guide Detail
(Typical 2 Places)



- Locate Rod Guide as dimensioned. Spot (2) mounting holes.
- Prepare holes.
  Metal Door: .140 (3.50) dia. inside face
  Wood Door: .140 (3.50) dia. x 3/4" (19) deep
- Mount Guide.

Bottom Strike Detail





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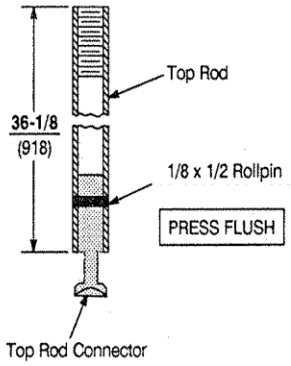
7. Prepare Rods



Top Rod

Ready for 84 (2134) Openings

Openings Under 84 (2134)
For Top Rod cutoff length, deduct OPENING HEIGHT from 84 (2134).

Example:
Opening = 80 (2032)
84 - 80 = 4 or (2134) - (2032) = (102)
Top Rod must be cut 4 (102).

Openings Over 84 (2134)
For Top Rod additional length, deduct 84 (2134) from OPENING HEIGHT.

Example: Opening = 99 (2515)
99 - 84 = 15 or (2515) - (2134) = (381)
Top Rod must be lengthened 15 (381).

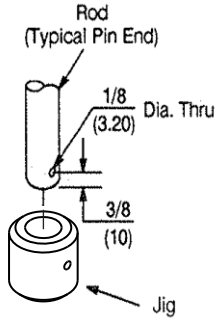
To Lengthen Rods

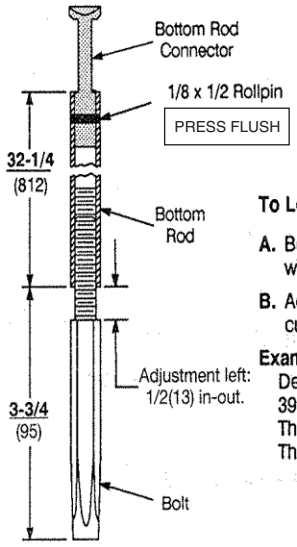
- Use Rod Extension(s) to extend Rod to length needed or longer (2", 6", 12", or 24" Rod Extensions available).
- Cut excess length from end of rod with pin hole.
- Apply screw locking compound* to Rod Extension(s) male threads. Thread Extension(s) until seated tight over Rod.

(*)Available at automotive parts store.

To Cut Rods

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





Bottom Rod

Ready for 39-15/16 (1014) Floor to Device Center

To Lower Device

A. Bottom Rod cutoff length is distance that device was lowered below 39-15/16 (1014).

B. Add to Top Rod a length equal to the Bottom Rod cut.

Examples:
Device at 36 (914) from floor.
39-15/16 - 36 = 3-15/16 or (1014) - (914) = (100)
The Bottom Rod must be cut 3-15/16 (100).
The Top Rod must be lengthened 3-15/16 (100).

8. Complete Installation

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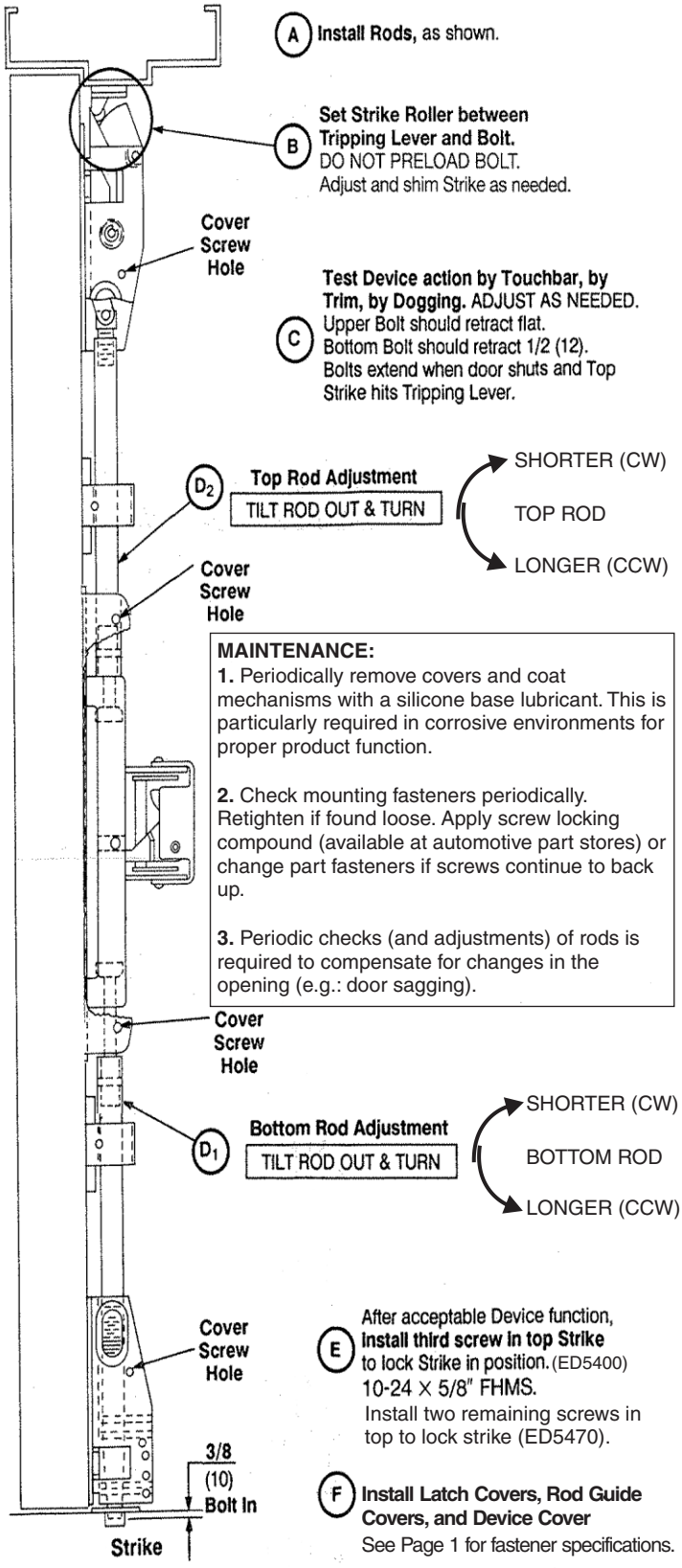

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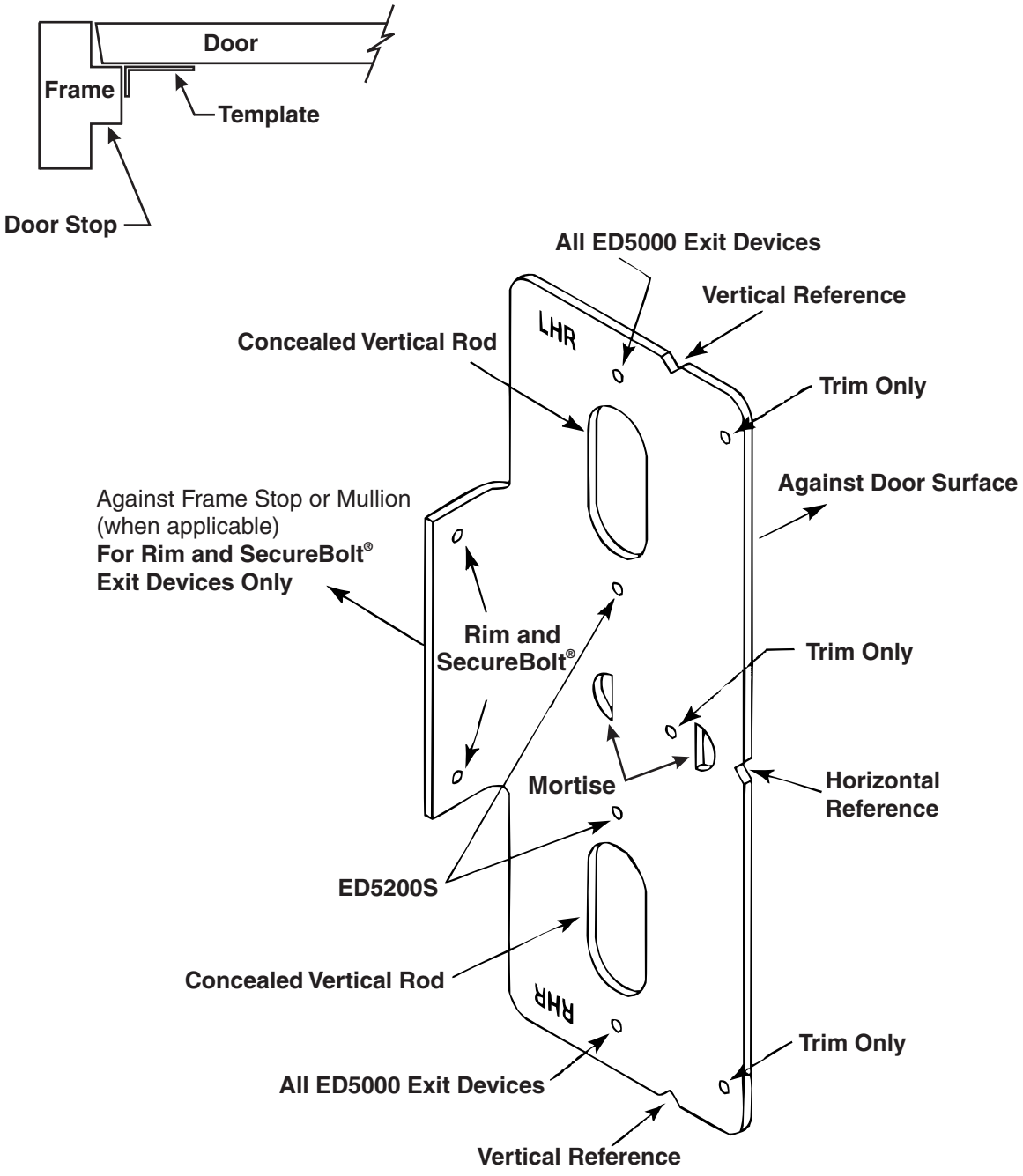
Plastic Installation Template for ED5000 Exit Devices

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.



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