

Installation Instructions



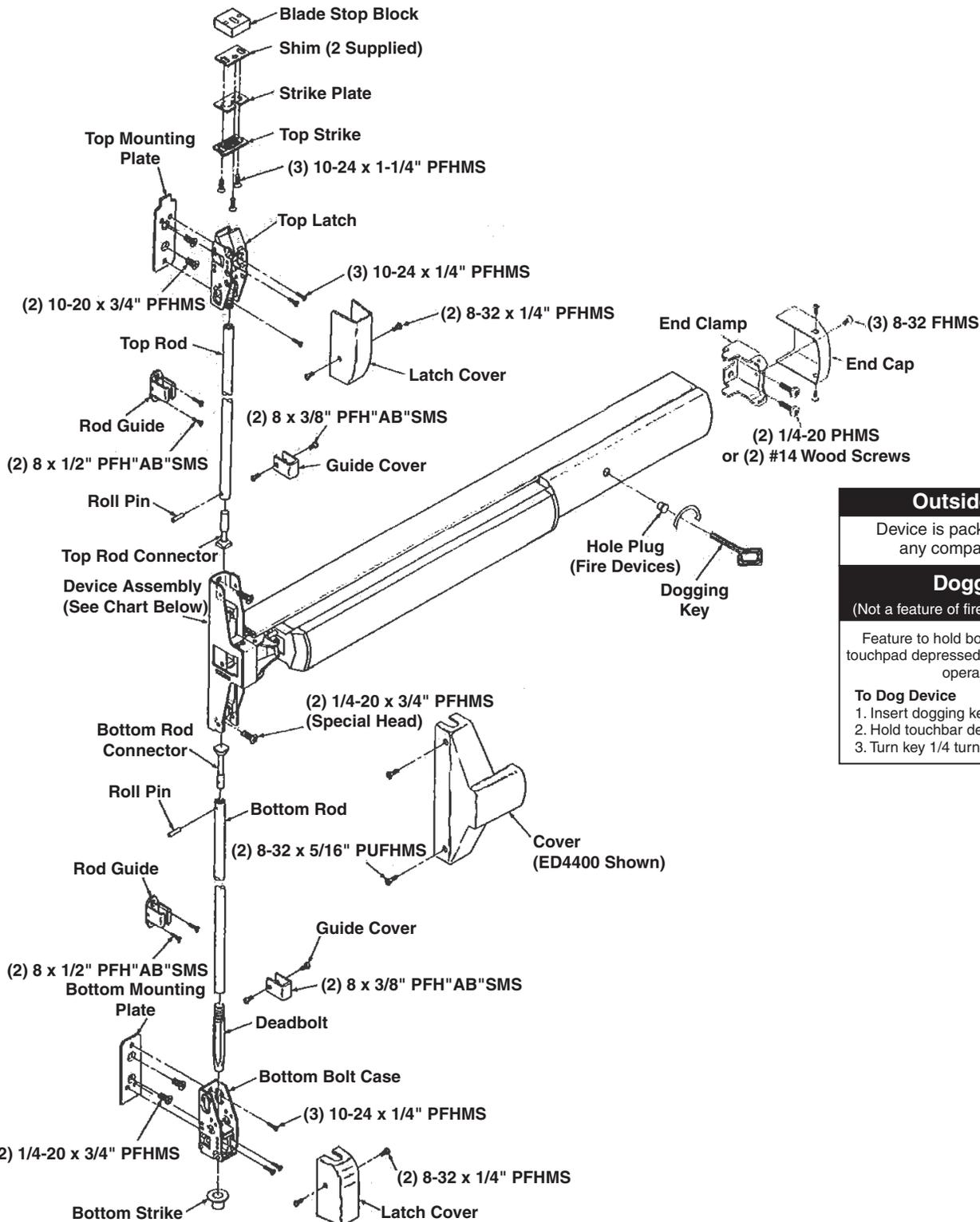
ASSA ABLOY

ED4400, ED4400M & ED4400MA Series Surface Vertical Rod Exit Devices

In U.S.:
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Technical Product Support: Phone: 888-607-5703



Outside Trim

Device is packed ready for any compatible trim.

Dogging

(Not a feature of fire labeled devices.)

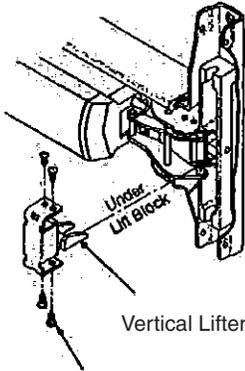
Feature to hold bolts retracted and touchpad depressed, for push-pull door operation.

To Dog Device

1. Insert dogging key.
2. Hold touchbar depressed.
3. Turn key 1/4 turn clockwise.

To Change Hands

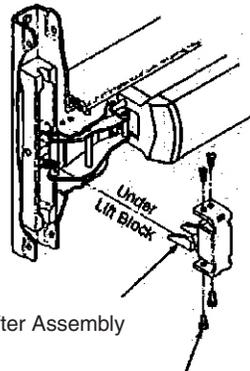
RHR Device



Vertical Lifter Assembly

(4) 8-32 x 3/16" PRHMS

LHR Device

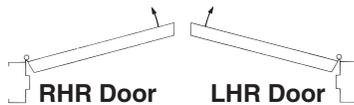


Vertical Lifter Assembly

(4) 8-32 x 3/16" PRHMS

Remove (4) Screws and Vertical Lifter Assembly. Rotate device to opposite hand (180 degrees). Insert Lifter Assembly and re-install screws.

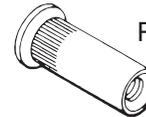
Note: Lifter must fit under lift block as shown.



RHR Door

LHR Door

1/4-20 Sex Nut Option



Recommended for unreinforced metal doors.

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

Rod Extension Options



2" (51mm)
6" (152mm)
12" (305mm)
(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

650F90-8 Black Finish

Kit consists of Device Head Shim (Device Cover seats on shim), End Clamp Shim (End Cap seats on shim), Top and Bottom Latch Shims (Bolt Case Mounting Plates seat on shim), and (2) Rod Guide Shims.

Each shim is 1/8" (3.2mm) thick.

More than two shim kits require longer device mounting screws (not included).

Check Before Starting



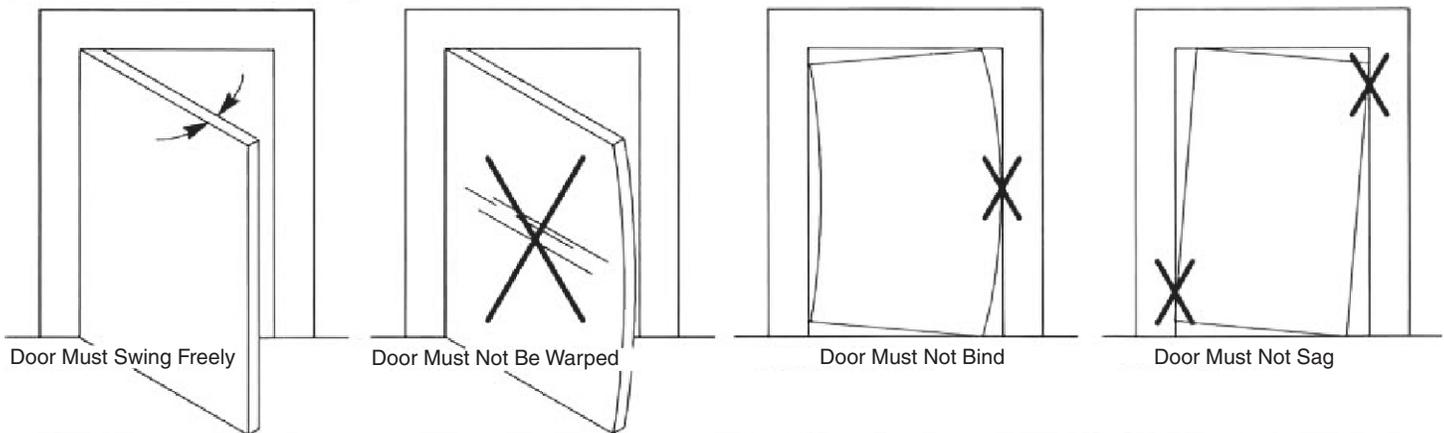
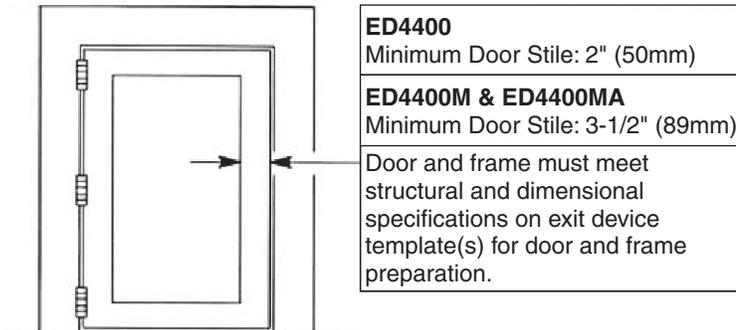
Unreinforced Doors or Frames

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.

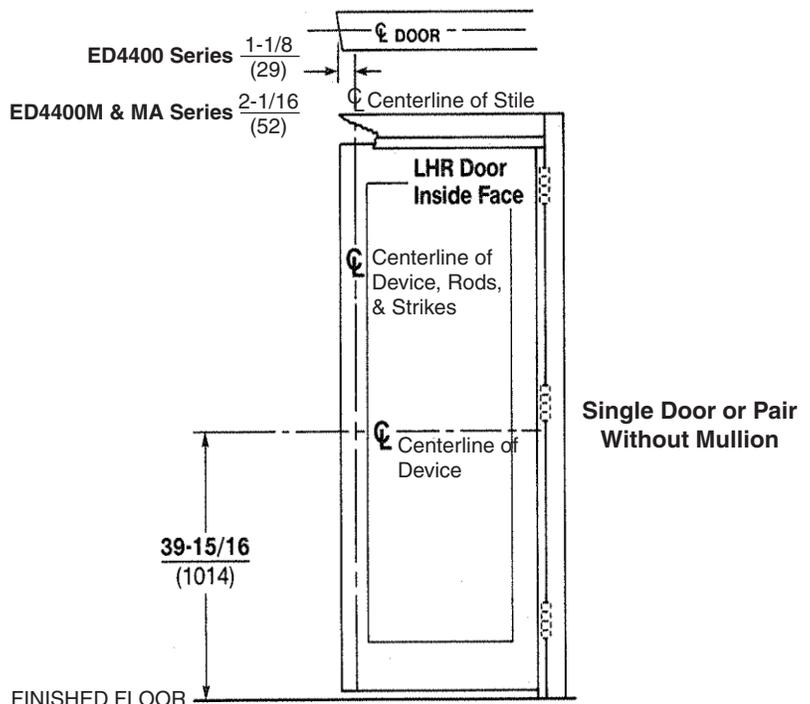


1. Mark Door

Locate and Mark Horizontal and Vertical Centerlines as shown.

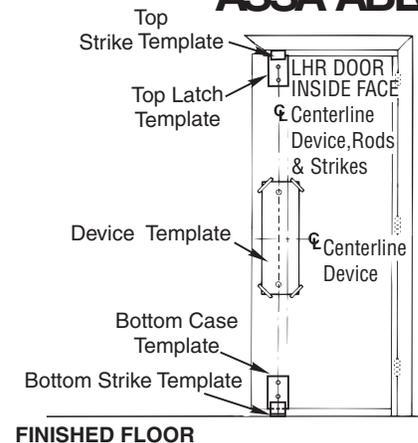
LHR door shown.
Preparation is typical for both door hands.

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.

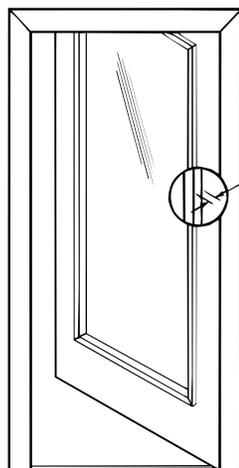


2. Prepare Door, Frame, & Sill

- A. Locate "Device Template" aligning VERTICAL and HORIZONTAL DEVICE CENTERLINES on door and template. Tape template to door face.
- B. Locate Top Latch/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. Mark and prepare holes:
 - Device and Bolt Case Plates:
 - Each (2) 1/4-20 Machine Screws OR
 - (2) 3/8" (10) Dia. Sex Nuts & Bolts
 - Top Strike: (2) 10-24 Machine Screws
 - Bottom Strike: 5/8" (16) Dia. x 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.

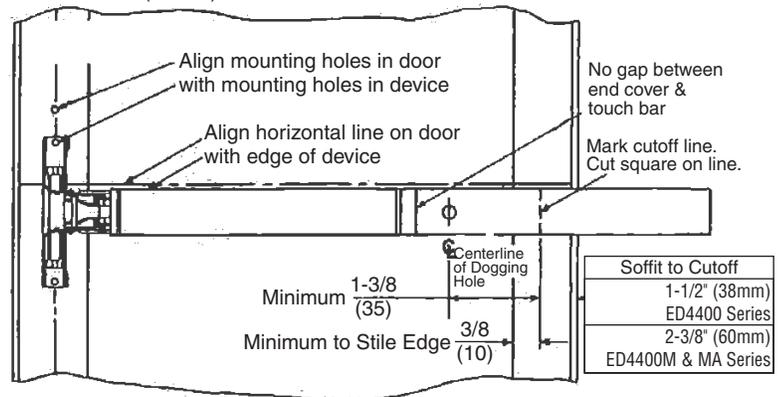
(1) Shim Kit #650F90-8 needed to clear each 1/8" (3mm) of raised molding

Longer mounting screws needed when more than (2) shim kits are used. See Shim Kit Option on page 2.

4. Size Device

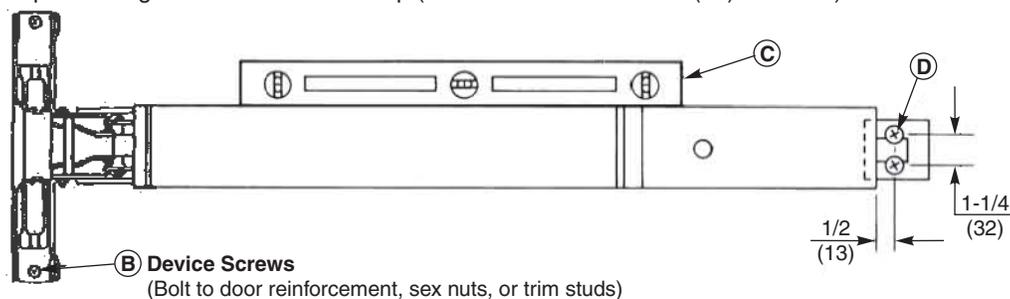
Device must be field cut to size unless standard opening and device are 36" (0.91m) or 48" (1.22m).

LHR DOOR (OPEN) INSIDE FACE



5. Install Device

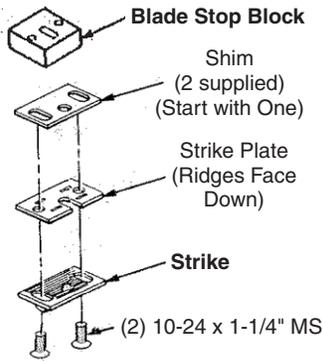
- A. Mount trim (Follow Instructions Packed with Trim).
- B. Seat bar in place. (Projecting C-Cam boss must penetrate into door hole.) Fasten device head (2 PRHMS or SNB).
- C. Set bar level. Locate end clamp holes.
- D. Prepare end clamp mounting holes. Mount end clamp (2 #1/4-20 PRHMS or 3/8 (10) dia. SNB).



- E. Check slide action (Slide travel $\approx 9/16$ " (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). NOTE: When resulting operation is faulty, check first for visible binding or interference. If there is no apparent reason for the fault, remove item from the door and recheck its operation before assuming that it is defective.
- F. Tighten all mounting screws.

6. Set Latches, Strikes & Guides

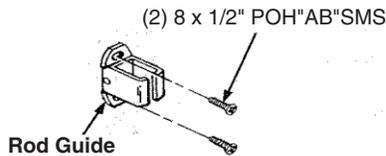
Top Strike Detail



NOTE: Reserve third screw for Step 8 (E).

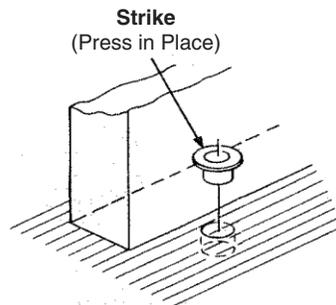
Blade Stop Mount shown. When Formed Stop is used, omit Blade Stop Block and mount Strike with 5/8" long screws (in 791 Strike Pack).

Rod Guide Detail (Typical 2 Places)

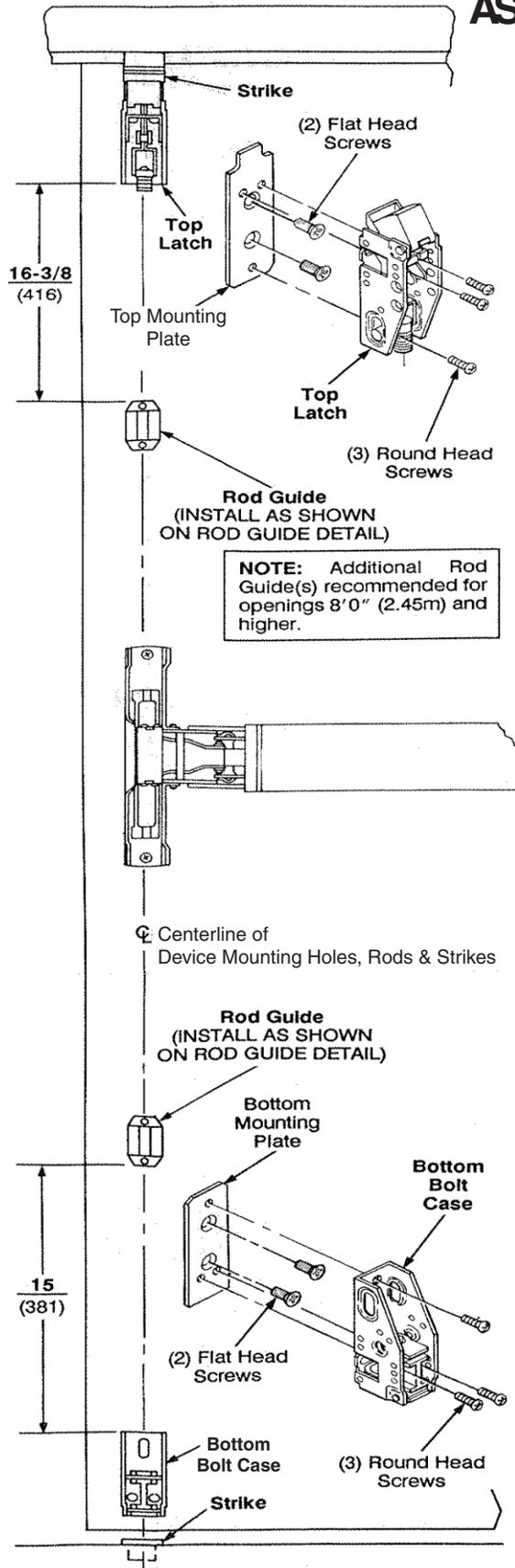


- Locate Rod Guide as dimensioned. Spot (2) mounting holes.
- Prepare holes.
Metal Door: .140 (3.50) dia. inside face
- Mount Guide.

Bottom Strike Detail



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



NOTE: Additional Rod Guide(s) recommended for openings 8'0" (2.45m) and higher.

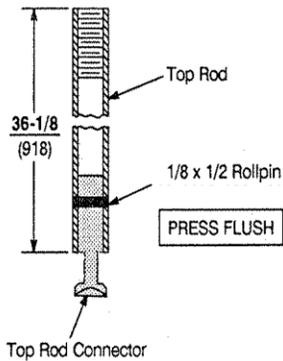
INSTALL AS SHOWN ON ROD GUIDE DETAIL

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

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).

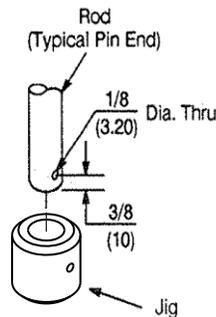
To Lengthen Rods

- Use Rod Extension(s) to extend Rod to length needed or longer (2", 6", or 12" 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.

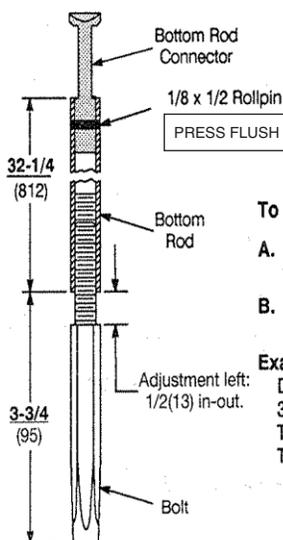
To Cut Rods

- 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

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

