



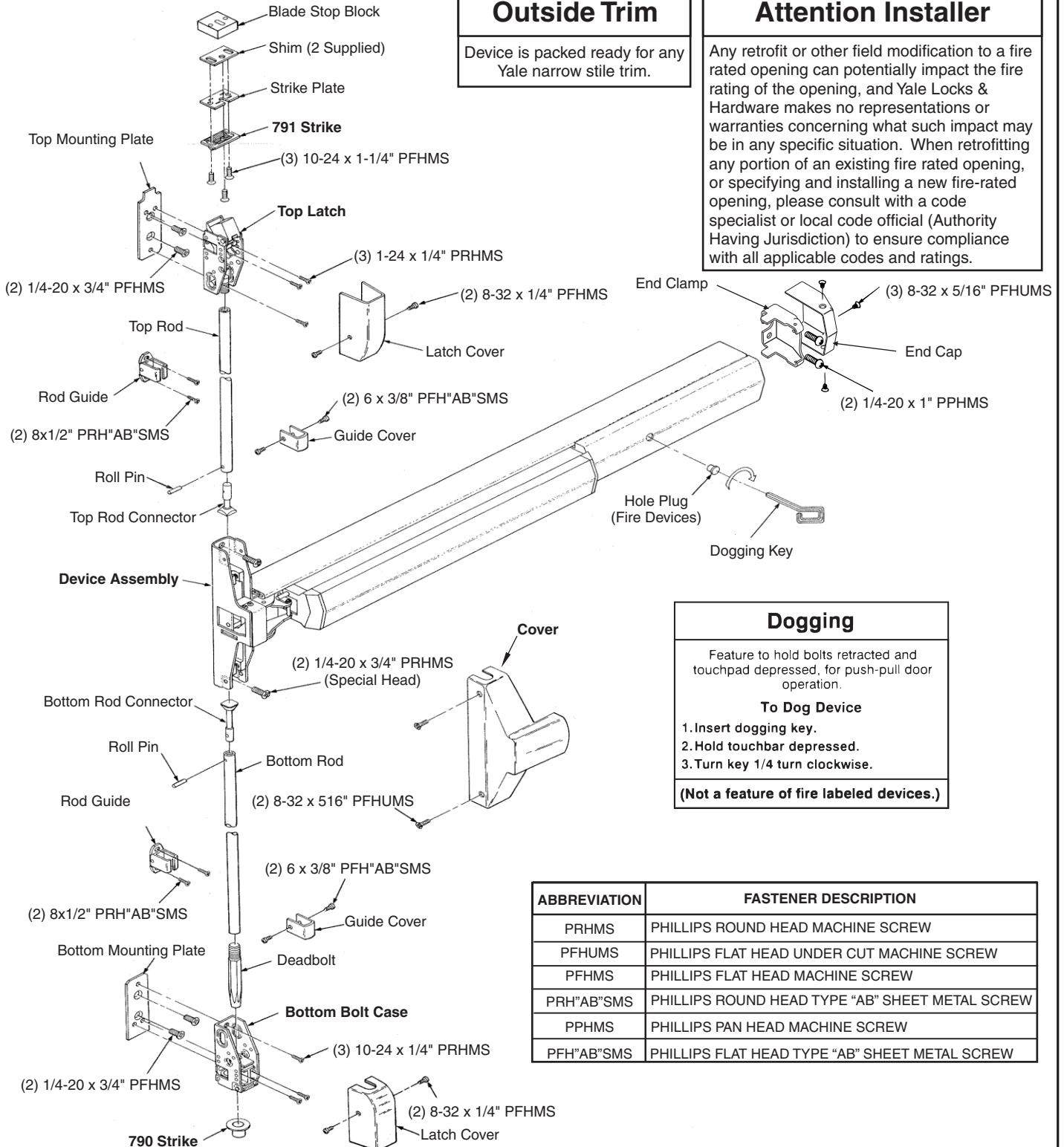
7210 Surface Vertical Rod Exit Device Installation Instructions

Outside Trim

Device is packed ready for any Yale narrow stile trim.

Attention Installer

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Yale Locks & Hardware makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.



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.

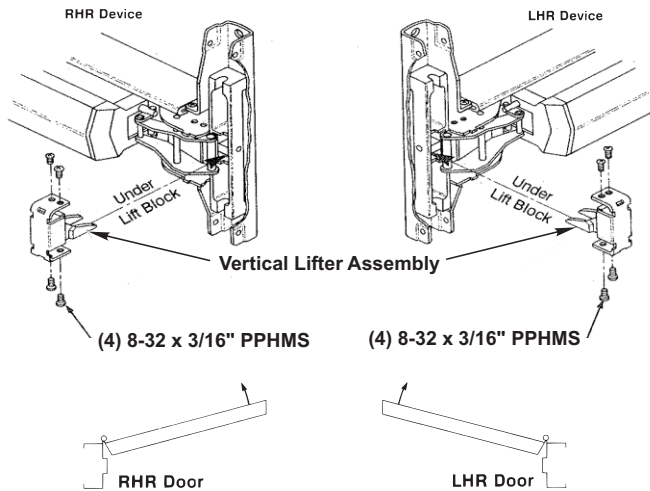
(Not a feature of fire labeled devices.)

ABBREVIATION	FASTENER DESCRIPTION
PRHMS	PHILLIPS ROUND HEAD MACHINE SCREW
PFHMS	PHILLIPS FLAT HEAD UNDER CUT MACHINE SCREW
PFHMS	PHILLIPS FLAT HEAD MACHINE SCREW
PRH"AB"SMS	PHILLIPS ROUND HEAD TYPE "AB" SHEET METAL SCREW
PPHMS	PHILLIPS PAN HEAD MACHINE SCREW
PFH"AB"SMS	PHILLIPS FLAT HEAD TYPE "AB" SHEET METAL SCREW

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



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 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).

Check Before Starting

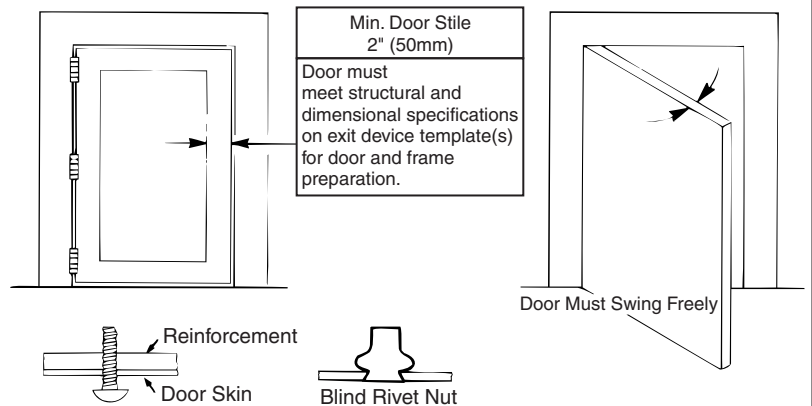
Unreinforced Doors or Frames

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 Yale Locks & Hardware.

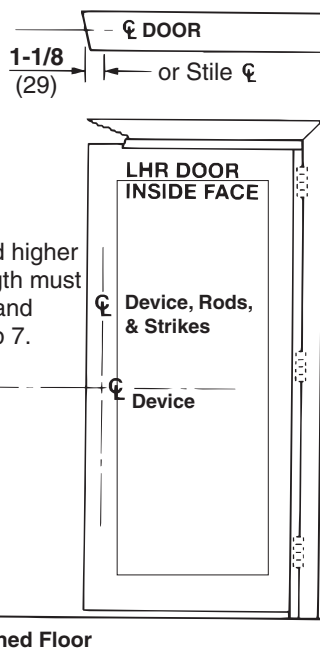


1. Mark Door

Locate and Mark Horizontal and Vertical Reference 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 in Step 7.



Single Door or Pair without Mullion

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. 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:

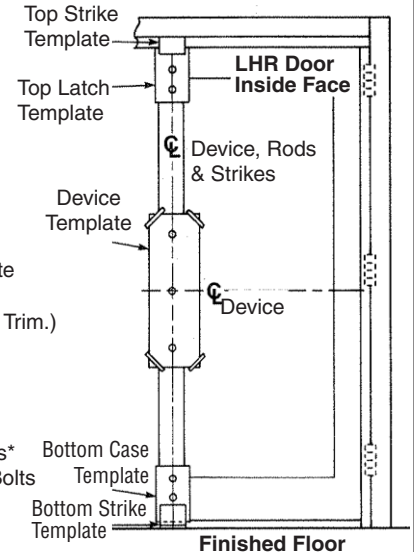
Device and Bolt Case Plates:

Each (2) 1/4-20 Machine Screws* or (2) 3/8" (10) dia Sex Nuts & Bolts

(* Metal reinforced door only.

Top Strike: (2) 10-32 Machine Screws;

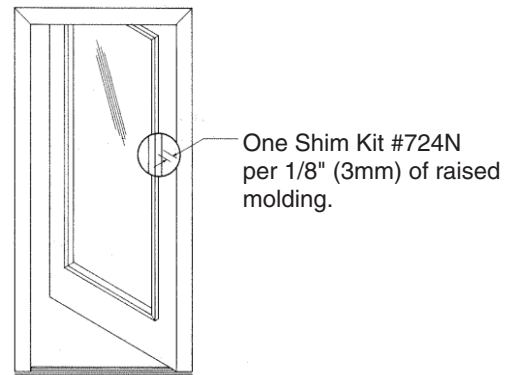
Bottom Strike: 5/8" (16) dia x 3/4 (19) deep hole



3. Clear Raised Door Molding

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

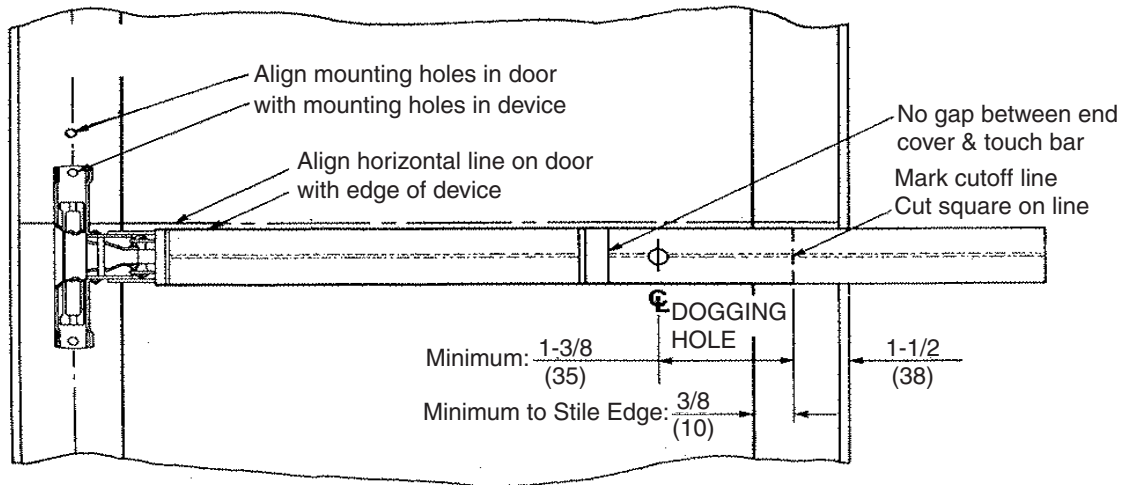
Longer mounting screws needed when more than (2) shim kits are used.



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
(Door Open)
INSIDE FACE**



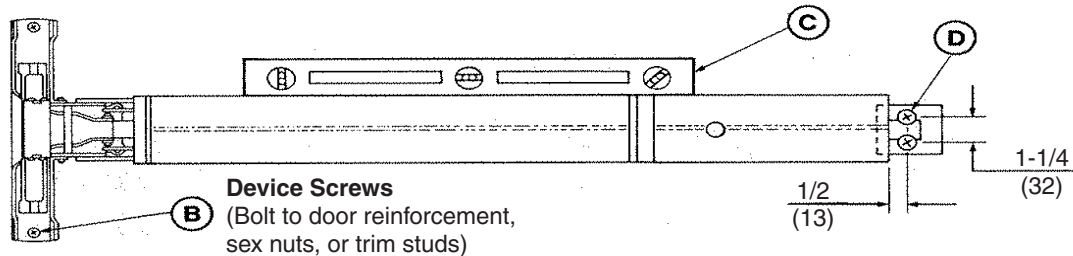
5. Install Device

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 \cong 9/16" (14).

should extend, slide should fall back to rest position).

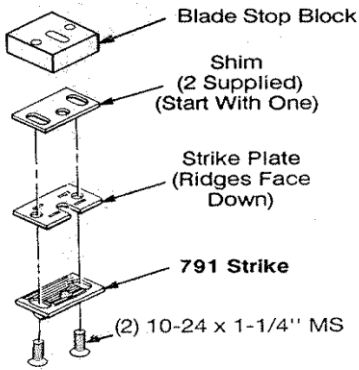
1. Depress touchbar (slide should move up). Release touchbar (slide should fall back to original rest position).
2. Activate trim (slide should move up). Release trim actuator (slide should fall back to rest position).
3. Depress touchbar, turn dogging key clockwise (bar must remain depressed, slide must remain in up position). Turn dogging key counterclockwise (bar

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 and Guides

Top Strike Detail

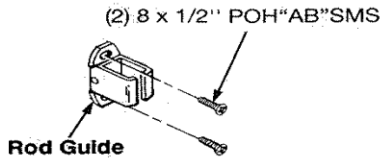


NOTE: Reserve third screw for Step 8.

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).

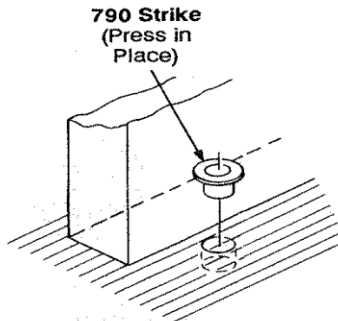
Rod Guide Detail

(Typical 2 Places)

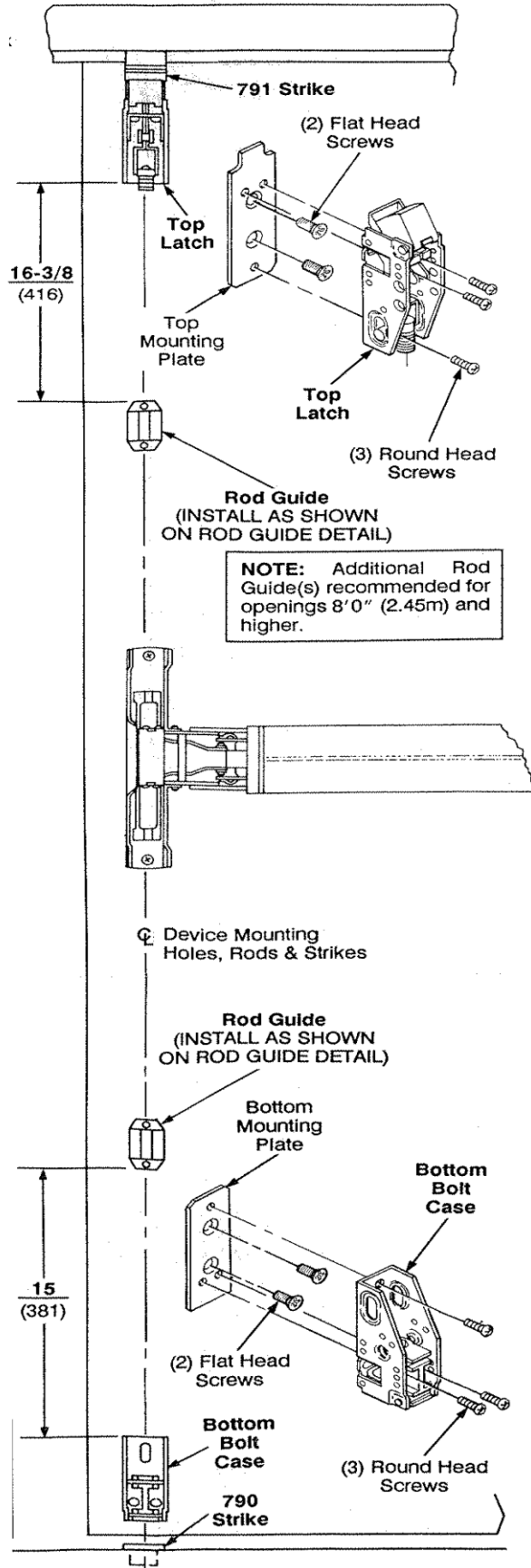


- Locate Rod Guide as dimensioned. Spot (2) mounting holes.
- Prepare holes. .140 (3.50) dia. inside face.
- Mount Guide.

Bottom Strike Detail



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

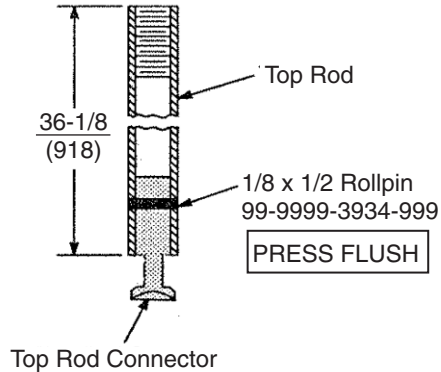


NOTE: Additional Rod Guide(s) recommended for openings 8'0" (2.45m) and higher.

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)
 $84" (2134) - 80" (2032) = 4" (102)$
 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)
 $99" (2515) - 84" (2134) = 15" (381)$
 Top Rod must be lengthened 15" (381).

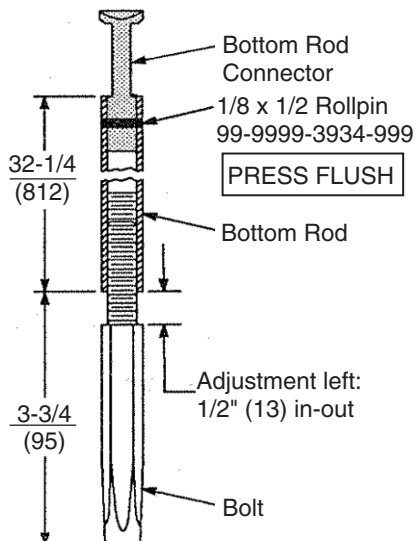
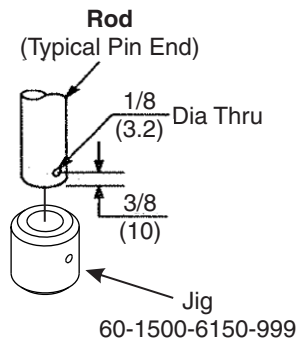
To Lengthen Rods

- 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

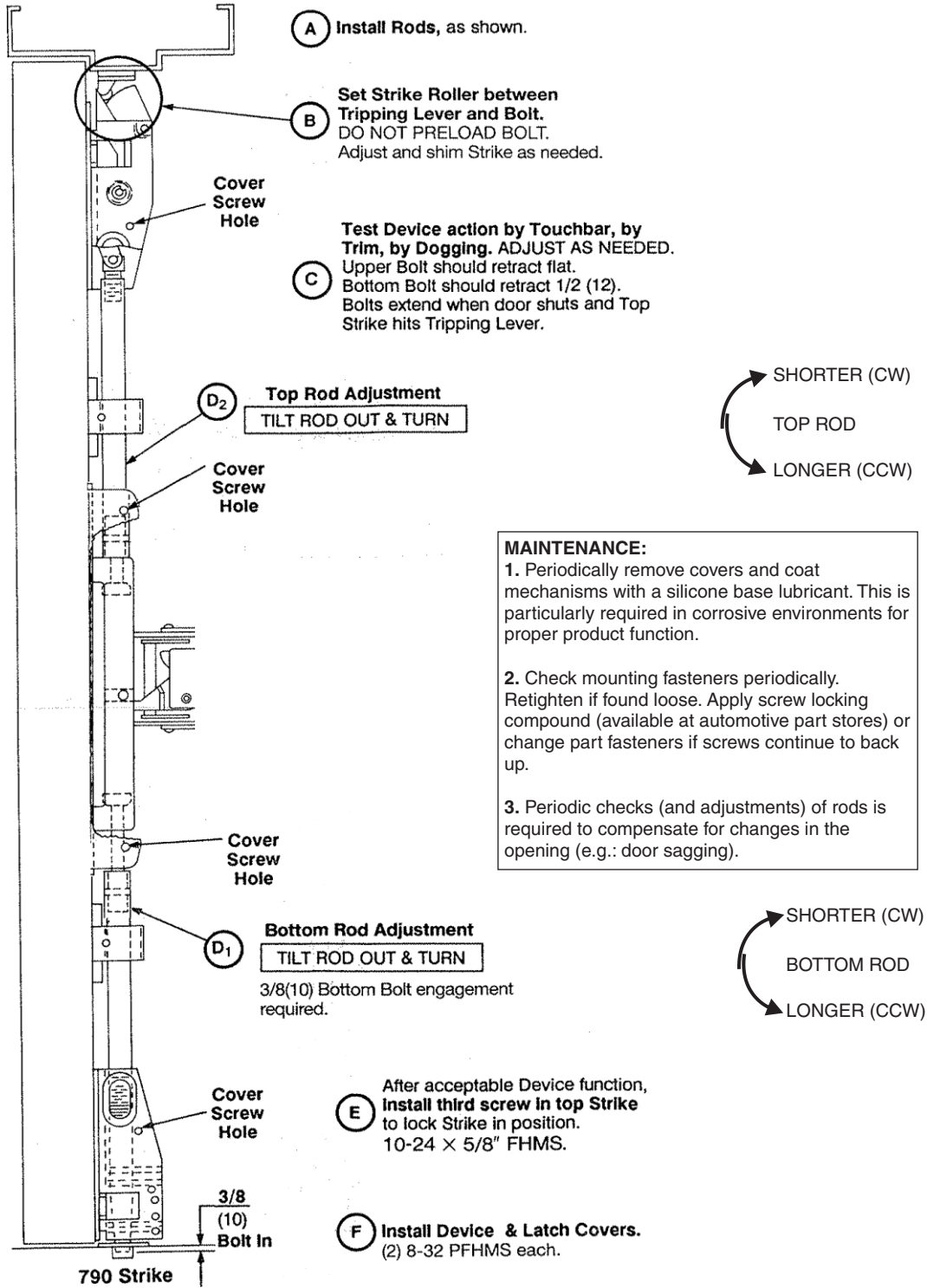
To Lower Device

- 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.

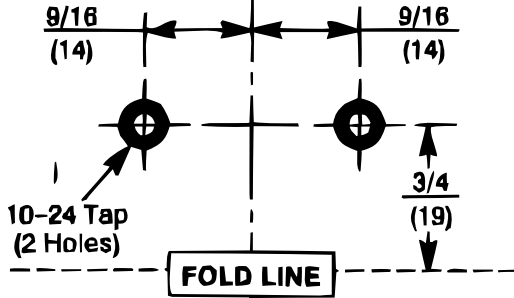
Example:

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

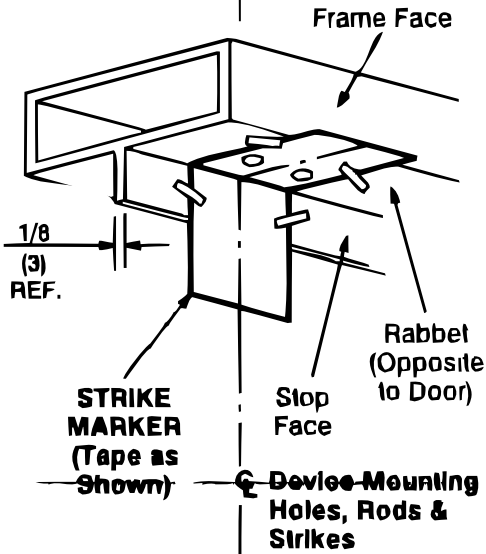
8. Complete Installation



TAPE TO FRAME RABBET



Ⓢ Rods & Strikes

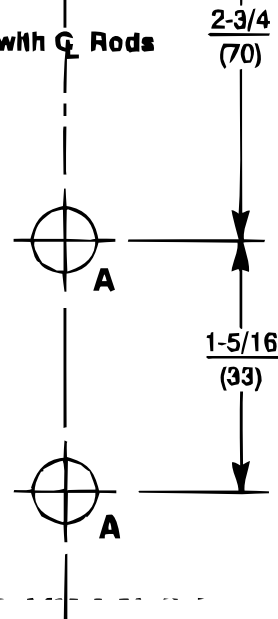


**791 STRIKE
(Top Strike)**

**FOLD OVER TOP
EDGE OF DOOR**

**FOLD LINE
(Door Top)**

Align with Ⓢ Rods



Door	Fastener	Hole "A"
Metal	Screw	1/4-20 Tap
Hollow Metal & Aluminum	Optional SNB	5/16 (8) Dia Inside Door Face 3/8 (10) Dia Outside Door Face
All Others	SNB	3/8 (10) Dia Thru Door

TAPE TO DOOR

CUT LINE



TOP LATCH

Notes:

1. "Cutlines" separate different templates.
2. Dimensions are given in inches (mm).
3. **CAUTION:** Office copiers, printers and facsimile machines may change the size of a drawing and make the template inaccurate to use as a door marker.

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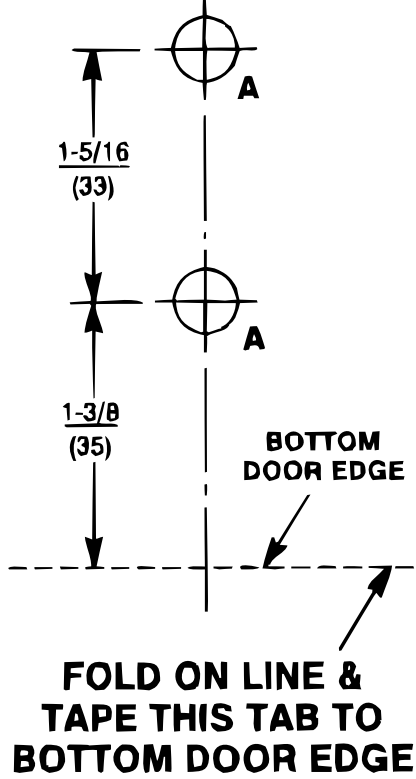
**TAPE TO
DOOR FACE**

**TAPE TO
DOOR FACE**

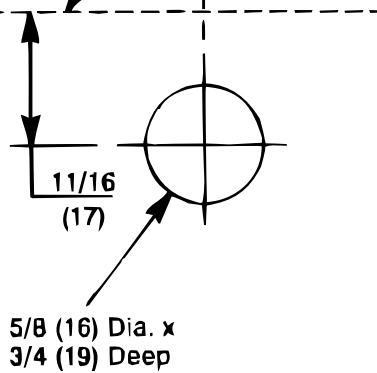
Door	Fastener	Hole "A"
Metal Reinforced	Screw	1/4-20 Tap
Hollow Metal & Aluminum	Optional SNB	5/16 (8) Dia. Inside Door Face
		3/8 (10) Dia. Outside Door Face
All Others	SNB	3/8 (10) Dia. Thru Door

Align with Q Rods

Align with Q Rods



FOLD LINE (Floor)



Notes:

1. "Cutlines" separate different templates.
2. Dimensions are given in inches (mm).
3. **CAUTION:** Office copiers, printers and facsimile machines may change the size of a drawing and make the template inaccurate to use as a door marker.

CUT LINE

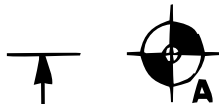
CUT LINE

**BOTTOM
BOLT CASE**

790 STRIKE

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Door Inside Face Surface (Device Seat)

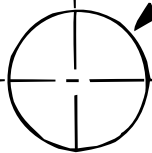


⊕ **VERTICAL REFERENCE**
Device Mounting
Holes, Rods & Strikes

$\frac{3-5}{8}$
(92)

HOLE	DOOR/FRAME	FASTENER	PREPARATION
A	Metal Reinforced	1/4 - 20 PRHMS	Drill: #7 (.201" dia.) Tap: 1/4 - 20
	All others	1/4 - 20 SNB	3/8" (9.50 mm) dia thru door

$\frac{3}{4}$
(19) Dia. x
 $\frac{1}{4}$
(6) Deep

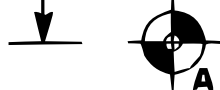


⊕ **HORIZONTAL
REFERENCE & DEVICE**

$\frac{3-5}{8}$
(92)

Instructions:

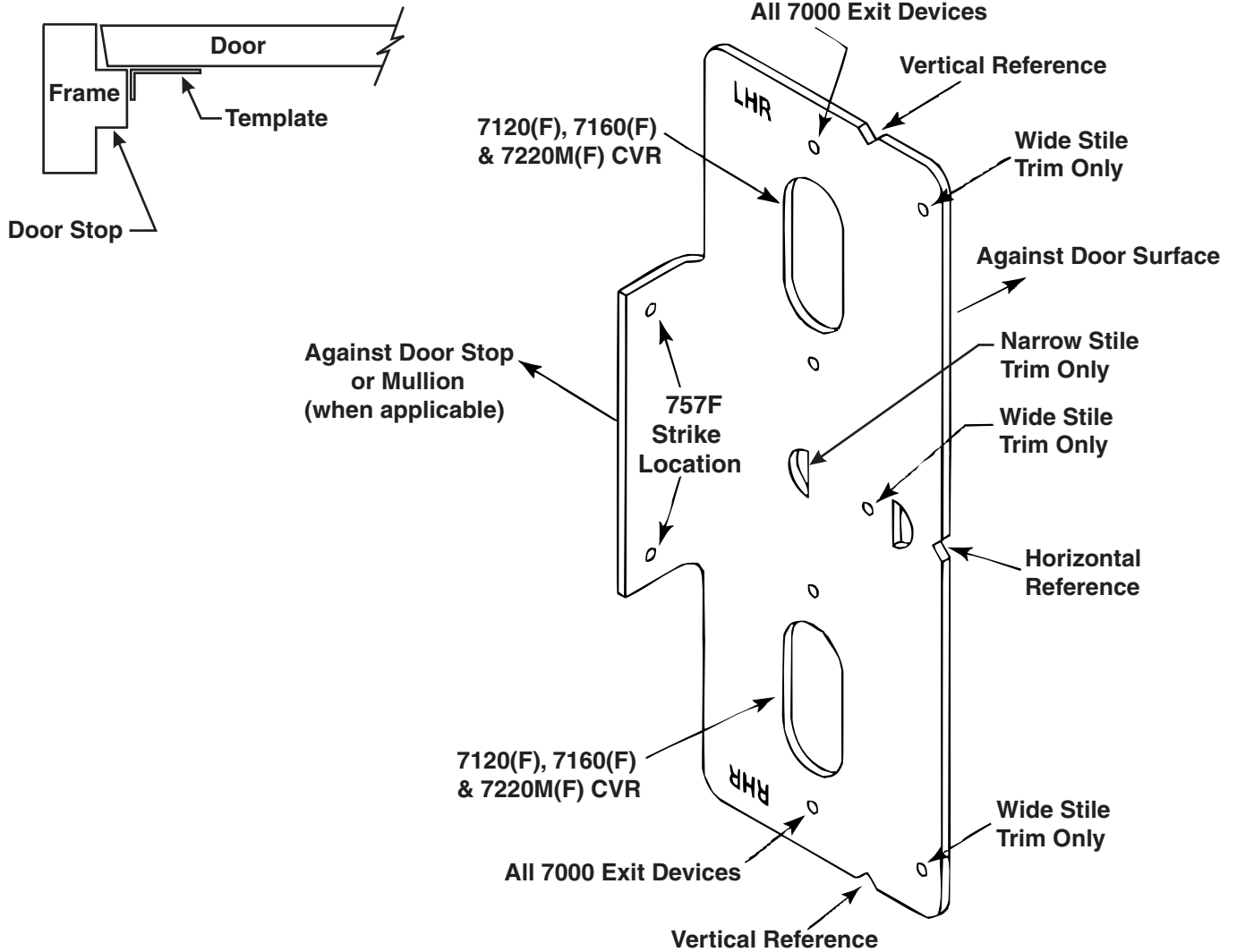
1. Not for 7210M(F) Series.
2. Unreinforced frames (total wall thickness less than 1/8 (3.2) require) that 10-24 blind rivet nuts (by others) be used to bolt strike.
3. Dimensions given in inches (mm).
4. **CAUTION:** Office copiers, printers and facsimile machines may change the size of a drawing and make the template inaccurate to use as a door marker.



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Plastic Installation Template

For use in conjunction with instruction sheets 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.



Yale Locks & Hardware

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