

# Concealed Vertical Rod Exit Devices

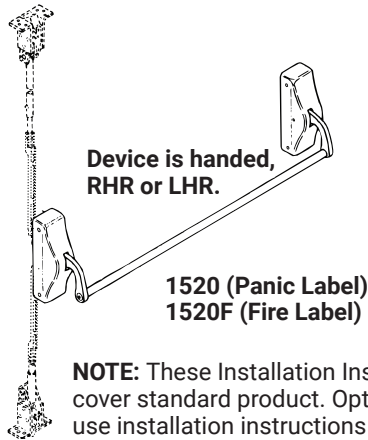
## 1520(F)

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### Installation Instructions

Packed For Reinforced Metal Doors. Optional Sex Nuts Required For Unreinforced Metal Doors.



### Outside Trim

Lifter for 620F or 630F Series Trim supplied when outside trim is packed with the device.

### Dogging

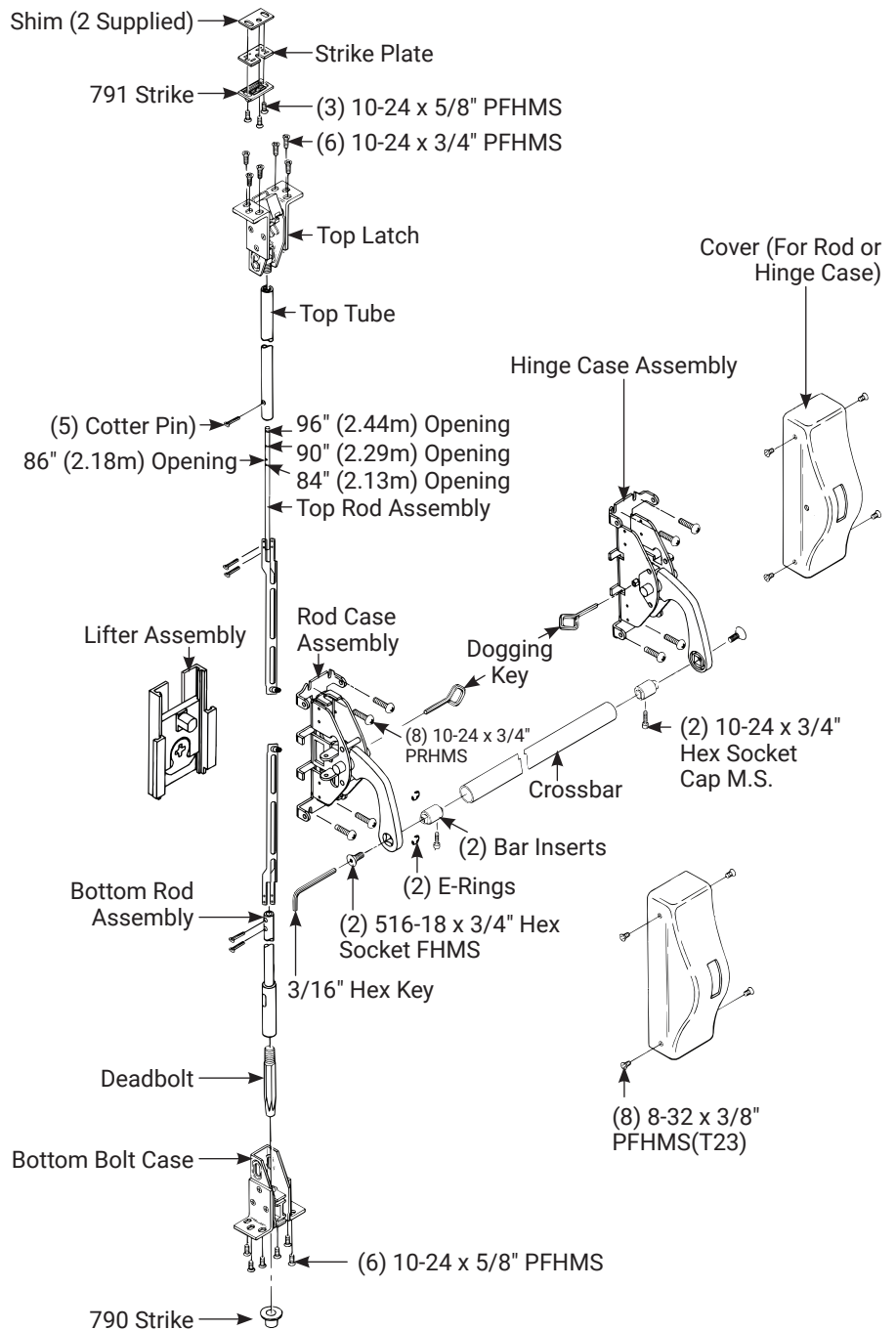
Feature to hold bolts retracted and crossbar depressed, for push-pull door operation.

#### To Dog Device

Set Rod Case Retractor and Hinge Case Retractor, as follows:

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

(Not a feature of fire labeled devices.)



### ⚠ WARNING

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](http://www.P65warnings.ca.gov).

### ⚠ WARNING

Attention Installer: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY 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.

80-9415-0020-000 06/25

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### Prepare Device for Trim

Omit for exit only function, with or without dummy trim.

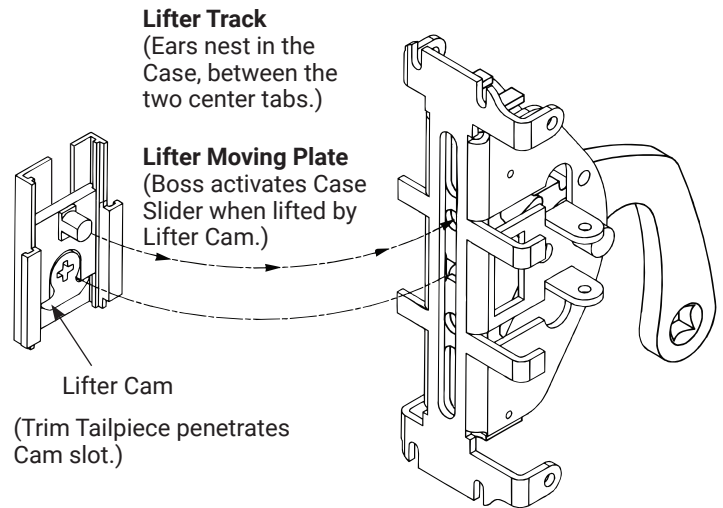
Drawing shows only essential parts, for clarity.

The Lifter Assembly is nested in the Device Case.

The boss of the lifter moving plate penetrates the round hole above the case slider center.

The Device Case seats over the door face, with the Lifter Assembly projecting thru the door cutout surface and into the door cavity.

**NOTE:** The rod connector (with stud) works in the cavity between the lifter track and the door (hook lifter track behind rod connector).



### 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).

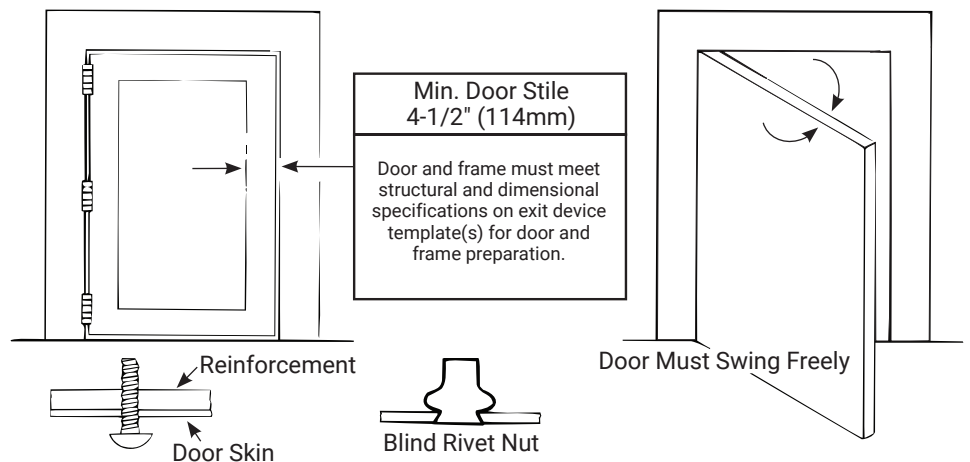
### Check Before Starting

#### 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 ASSA ABLOY ACCENTRA™ Locks and Hardware.



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## Installation Instructions

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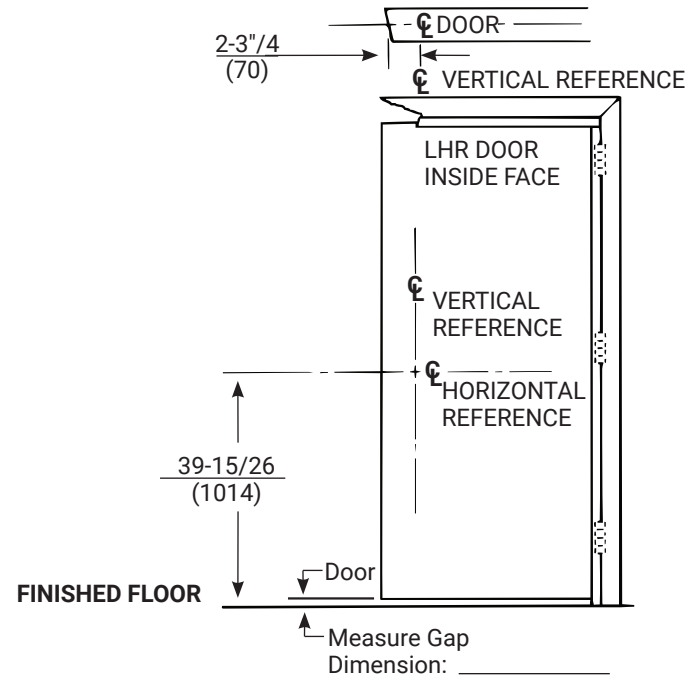
### 1. Mark Door

Single Door or Pair without Mullion

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 on Step 3.



### 2. Prepare Door, Frame, and Sill

- Locate Device Template aligning VERTICAL REFERENCE and HORIZONTAL REFERENCE lines on door and template. Tape template to door face.
- Extend centerline of Rods and Strikes from Device Template to door top and bottom, on door face.
- Locate 791 Top Strike and Bottom Strike templates, aligning on centerline of Rods and Strikes on door. Tape templates in place.
- Locate and tape Trim Template to door. (See instructions packed with Trim)
- Spot and prepare holes:

**Device:**

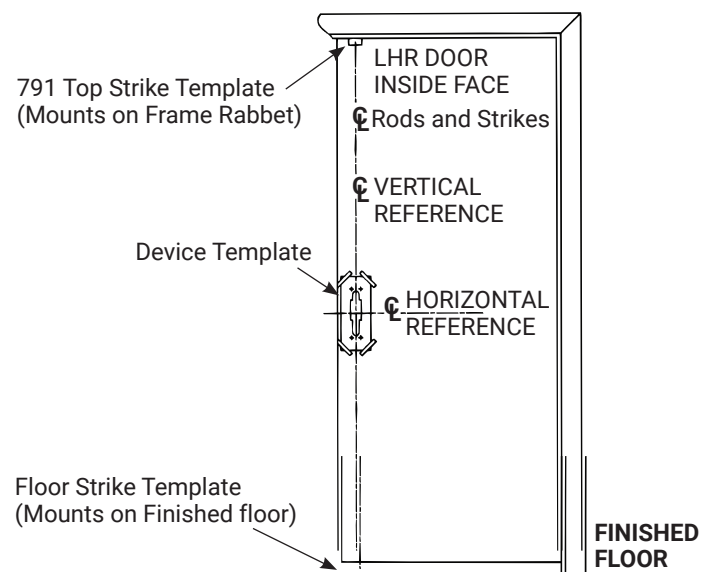
(4) 1/4-20 Machine Screws (reinforced door), or

(4) 3/8 (9.50) Dia. Sex Nuts and Bolts (all others).

**Top Strike:** (2) 10-24 Machine Screws

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

**NOTE:** Auxiliary door marker is included to verify correct door preparation. Reinforced doors and frames, with factory made cutouts, are recommended.



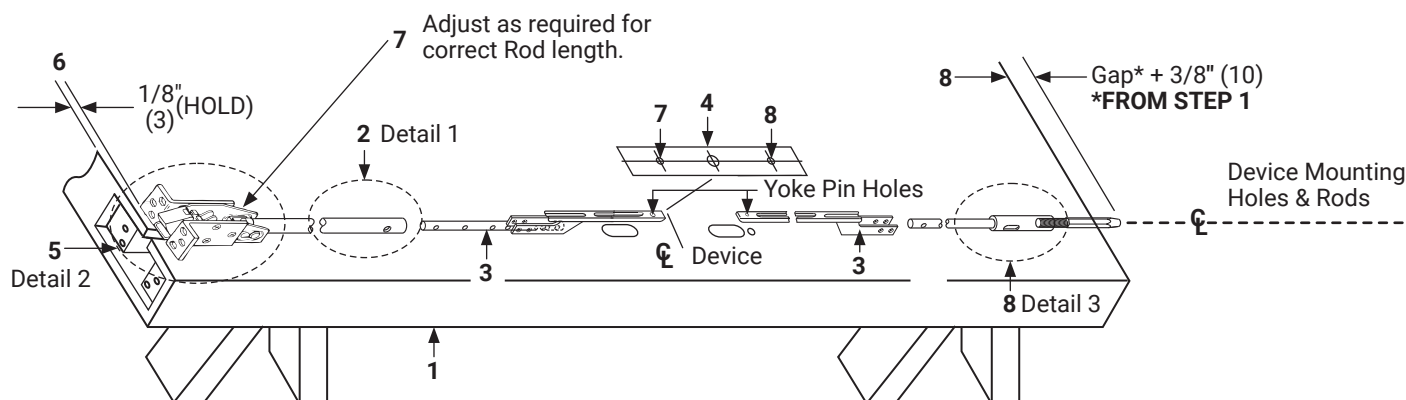
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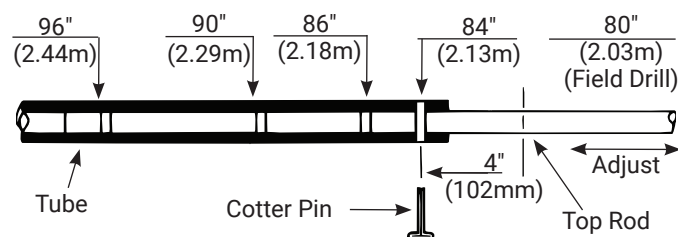
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### 3. Rod Assembly and Preliminary Adjustment



#### Setting Top Rod Length

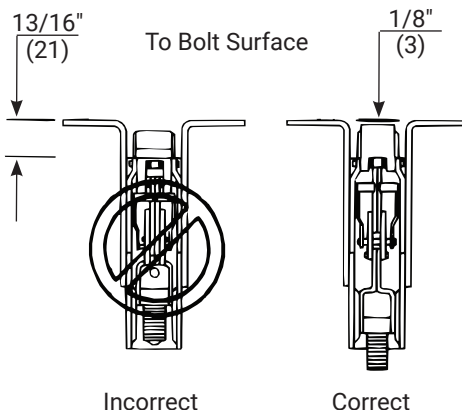
Opening Height



**For Opening Heights over 96" (2.44m)** lengthen Top Rod with Rod Extensions between Rod Tube and Top Latch. Seat Extension tight on Tube. Adjust to precise Rod length by positioning Cotter Pin hole in Rod, as needed.

#### Top Latch Detail

Retracted-Latchbolt-Extended



- Set door flat, device side up (Do not hang until step 8.)
- Assemble Top Rod (See "Setting Top Rod Length" note at right.)
- Tape or clamp Installation Gauge (80-8415-0029-000) to door, as shown. (Gauge aligns with Horizontal and Vertical Reference lines.)
- Position Bottom Rod with yoke pin hole in Gauge bottom hole. Thread Bottom Bolt to length shown.
- Position Top Rod with yoke pin hole in Gauge top hole. Thread top latch (with bolt extended) to tube, till assembly may be positioned as shown.

- For Factory Preset Opening Heights** (shown) go to step 4.  
**NOTE:** Factory Preset Rod holes are for device case center positioned at 39-15/16" (1014mm) from finished floor.
- For Other Opening Heights** (80"/2.03m shown) locate Rod hole from closest preset location (e.g. for 80" opening, rod must be 4" shorter than for 84". Pin hole is positioned as shown on detail drawing.)
- Drill 1/8" (3.00mm) hole thru Rod.
- Adjust Rod-Tube length to line up correct pin holes (84" opening shown). Assemble with Cotter Pin.

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### 4. Install Rods

1. Insert Top Rod and Latch Assembly into door Position Top Latch centered on given centerlines (see Figure 1)
2. Prepare Top Latch mounting holes and attach with (6) 10-24 FHMS.
3. Insert Bottom Rod and Bolt Assembly into door. Position Bolt Case to allow free Bolt passage (see drawing).
4. Prepare Bolt Case mounting holes and attach with (6) 10-24 FHMS.
5. Thread Set Screw into Yoke Pins (Insert With Hex Socket End Inside Pin). Thread #8-32 X 2" PRHMS Screws into slotted end of Yoke Pins, until seated to Hex Head Set Screw. (See Figure 3)
6. Install (2) Yoke Pin Assemblies into Arm and Bracket Assemblies.

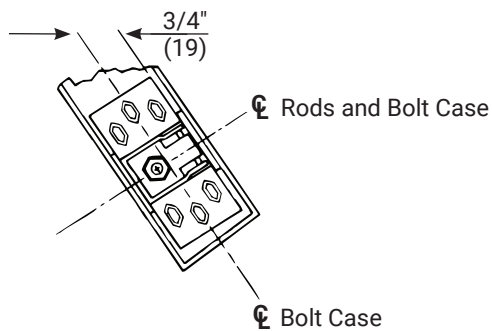


Figure 2

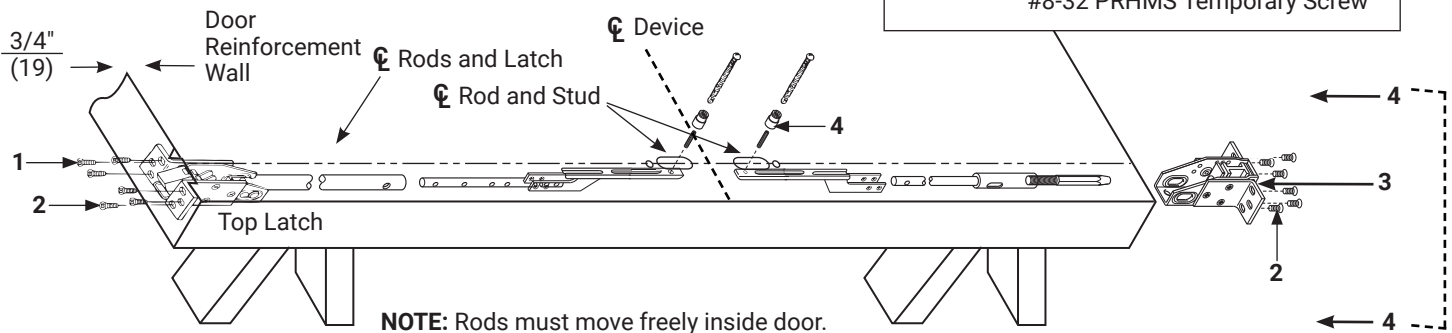
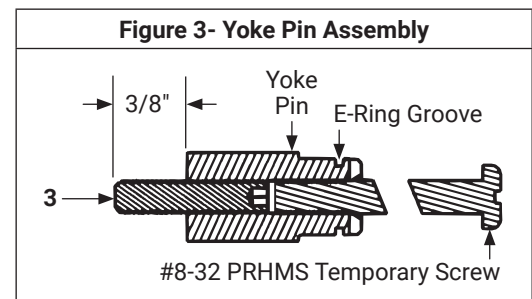


Figure 1

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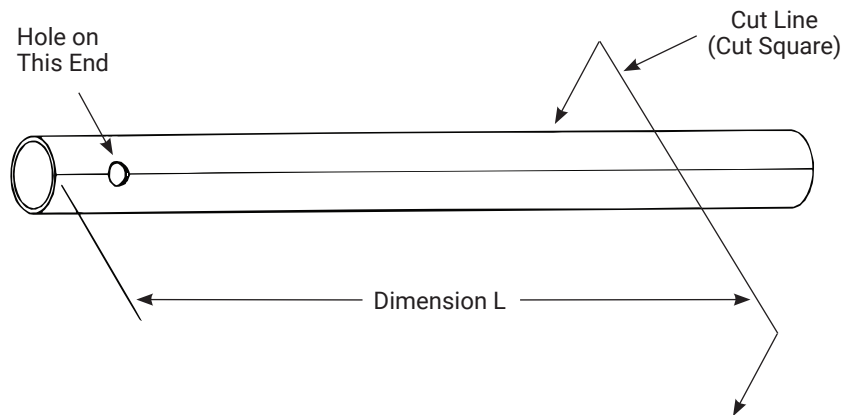
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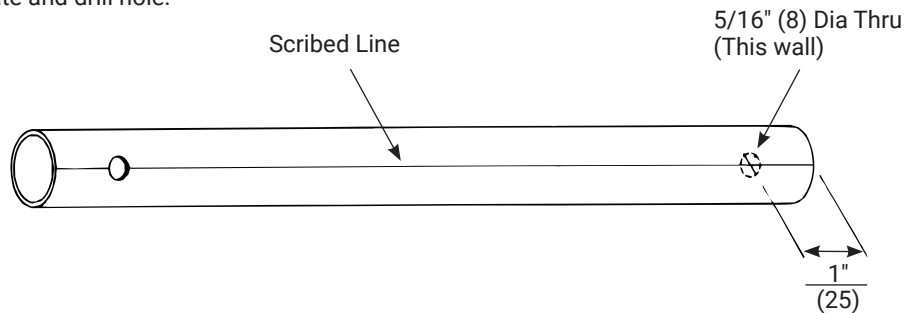
## 5. Prepare Crossbar

Crossbar Length (L) = Door Opening Width - 6-1/4" L = DOW-159mm

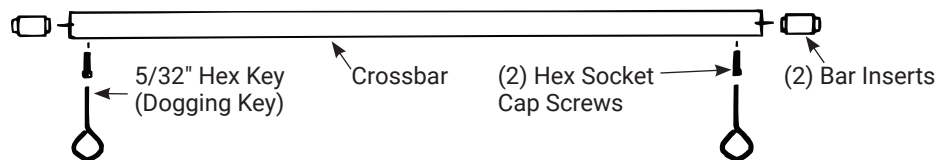
A. Cut bar to required length.



B. Locate and drill hole.



C. Assemble Crossbar.



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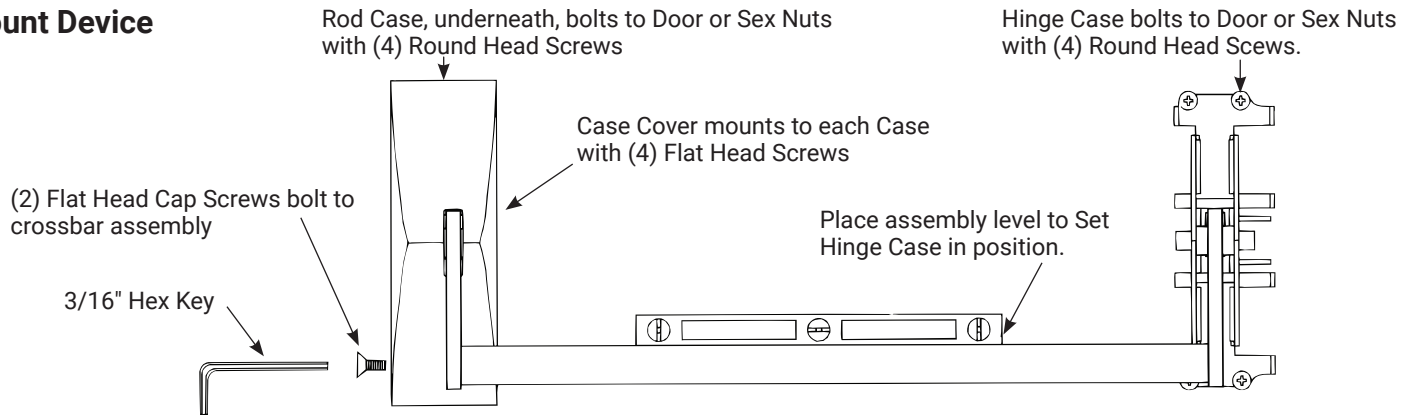
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## Installation Instructions

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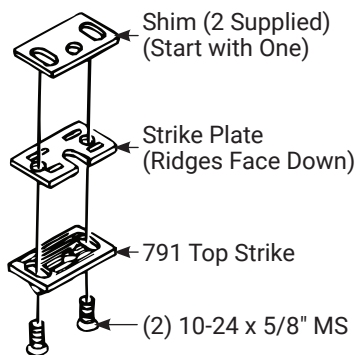
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### 6. Mount Device



- Install Trim (See "Device Preparation for Trim", front page, and instructions packed with Trim.)
- Mount Rod Case to tapped door, trim studs, or sex nuts.  
**NOTE:** Rod connectors work between Rod Case and Trim Lifter channel. Rod studs pass thru Rod Case Slider (Top Stud at bottom of top slot, Bottom Stud into bottom slot. Retain Studs in place with E Rings supplied).
- Install Rod Case cover with (4) flat head screws.
- Install Crossbar, inserted into Rod Case and Hinge Case arm grooves. Use crossbar and level to position Hinge Case as a template.
- Locate and prepare holes for (4) Hinge Case mounting screws, as follows:  
**Reinforced Door:** 1/4 - 20 Machine Screws  
**Unreinforced Door:** 3/8" (9.50) diameter SNB.
- Mount Hinge Case with (4) round head screws, and Cover with (4) flat head screws.
- Reassemble Crossbar.
- Check for smooth operation by crossbar, by trim, by dogging, Rods must move freely. Top latchbolt must retract fully, and remain retracted until deadlocking level is depressed. Bottom bolt should retract not less than 1/2".

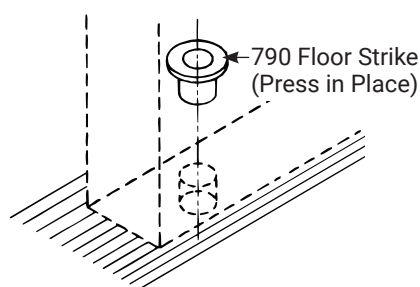
### 7. Install Strikes



#### Detail X (Upper Strike)

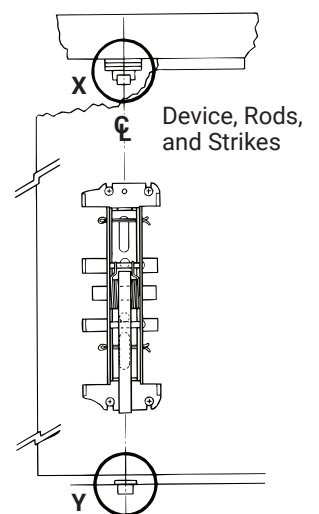
**NOTE:** Third screw must be installed after device is adjusted and works properly. Step 8D.

**NOTE:** Fire Openings With Thresholds Require **Optional 794 Strikes** Anchored to Floor Under Thresholds.



#### Detail Y (Bottom Strike)

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



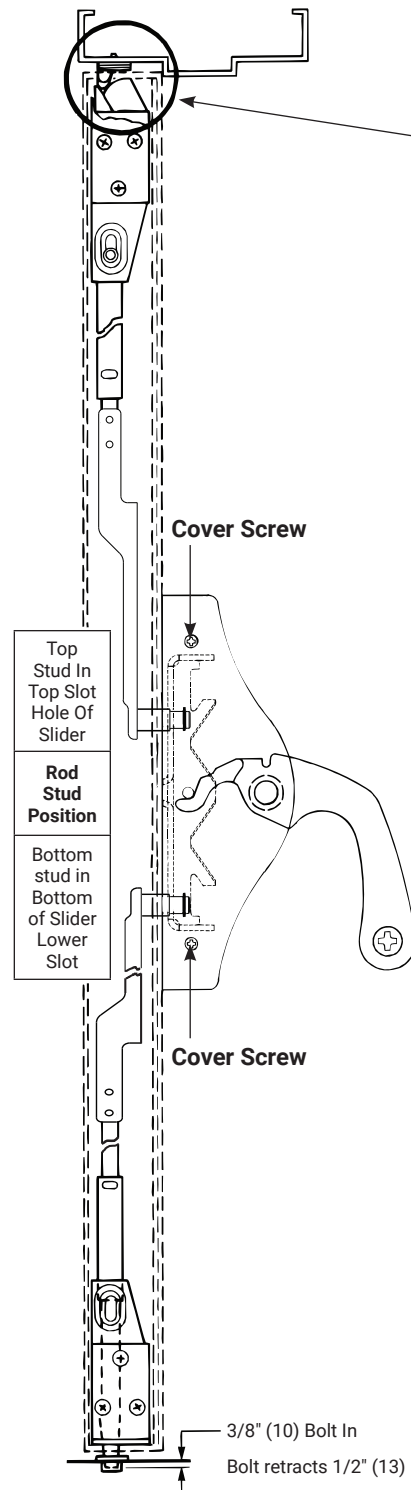
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**8. Complete Installation**



**A. Hang Door**, true, plumb, and free to swing.

**B. Set Strike Roller between Tripping Level and Bolt.**  
DO NOT PRELOAD BOLT.  
Shim as needed for zero door rattle.

**C. Test Device action by Crossbar, by Trim, AND by Dogging.**  
Both bolts should retract, permitting free door swing. Upper Bolt should retract flat, Bottom Bolt should retract 1/2 (12). Bolts remain retracted until door shuts and Top Strike hits Tripping Lever.

**C1. Bottom Rod Adjustment**  
When Bottom Rod drags on floor but Top Rod remains retracted, bottom rod is too long. Remove Bottom Bolt Case and thread bottom bolt in, as required.

**C2. Top Rod Adjustment**  
When top bolt does not remain retracted, Top Rod is too short. Retract Steps 3 and 4. Check Device centerline and all rod dimensions carefully.

**D. After acceptable Device function, install third screw in top Strike** to lock Strike in position. 10-24 x 5/8" FHMS.

**E. Secure Cover Screws.**



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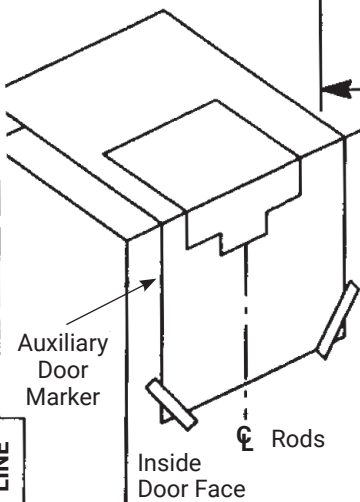
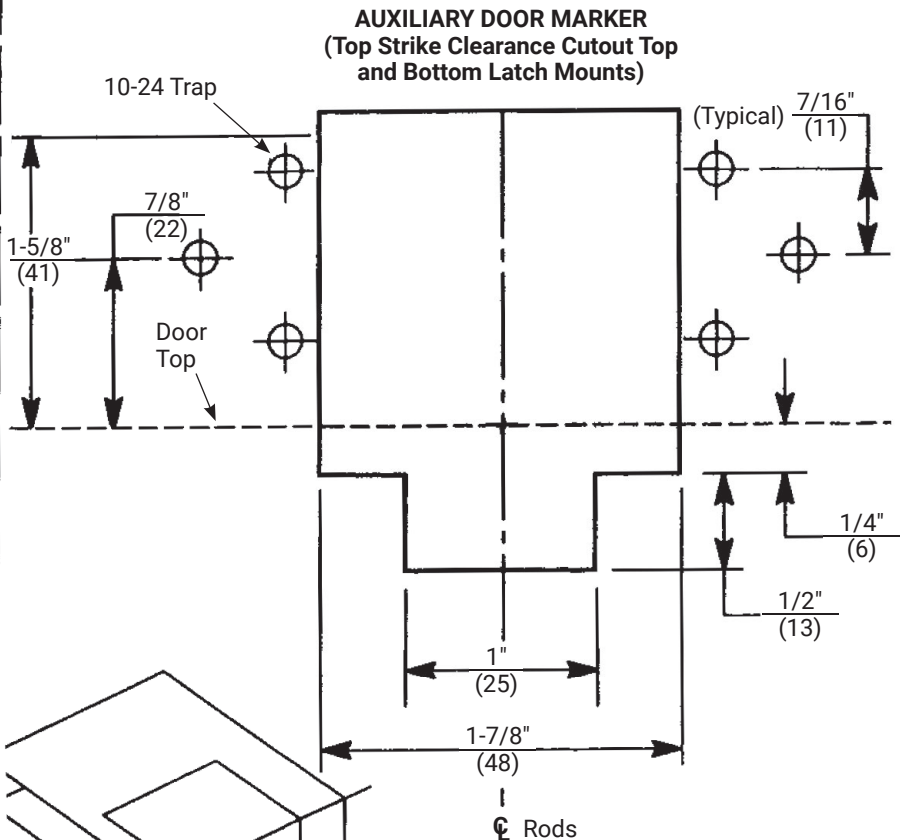
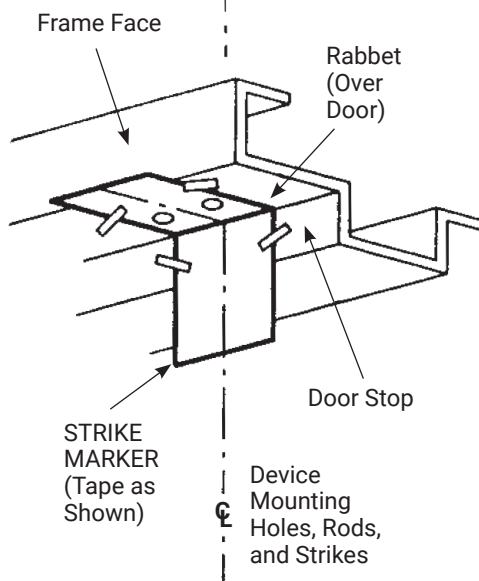
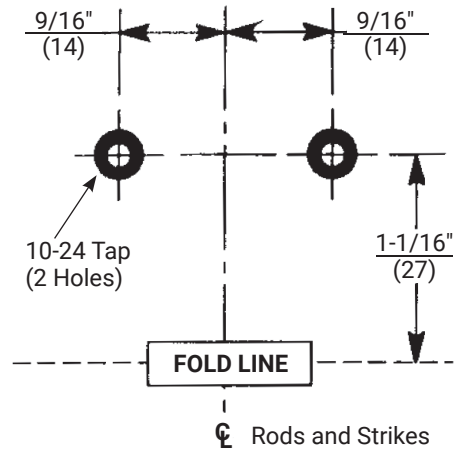
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TAPE TO FRAME RABBET

### 791 STRIKE (Top Strike)



#### NOTES:

1. 1-1/2" (38) square clear vertical cavity, centered on door and rods, is needed.
2. Top and bottom latch holes shown for reference. Position latch in place to locate holes.
3. Fold marker and tape to door face to locate cutout.

**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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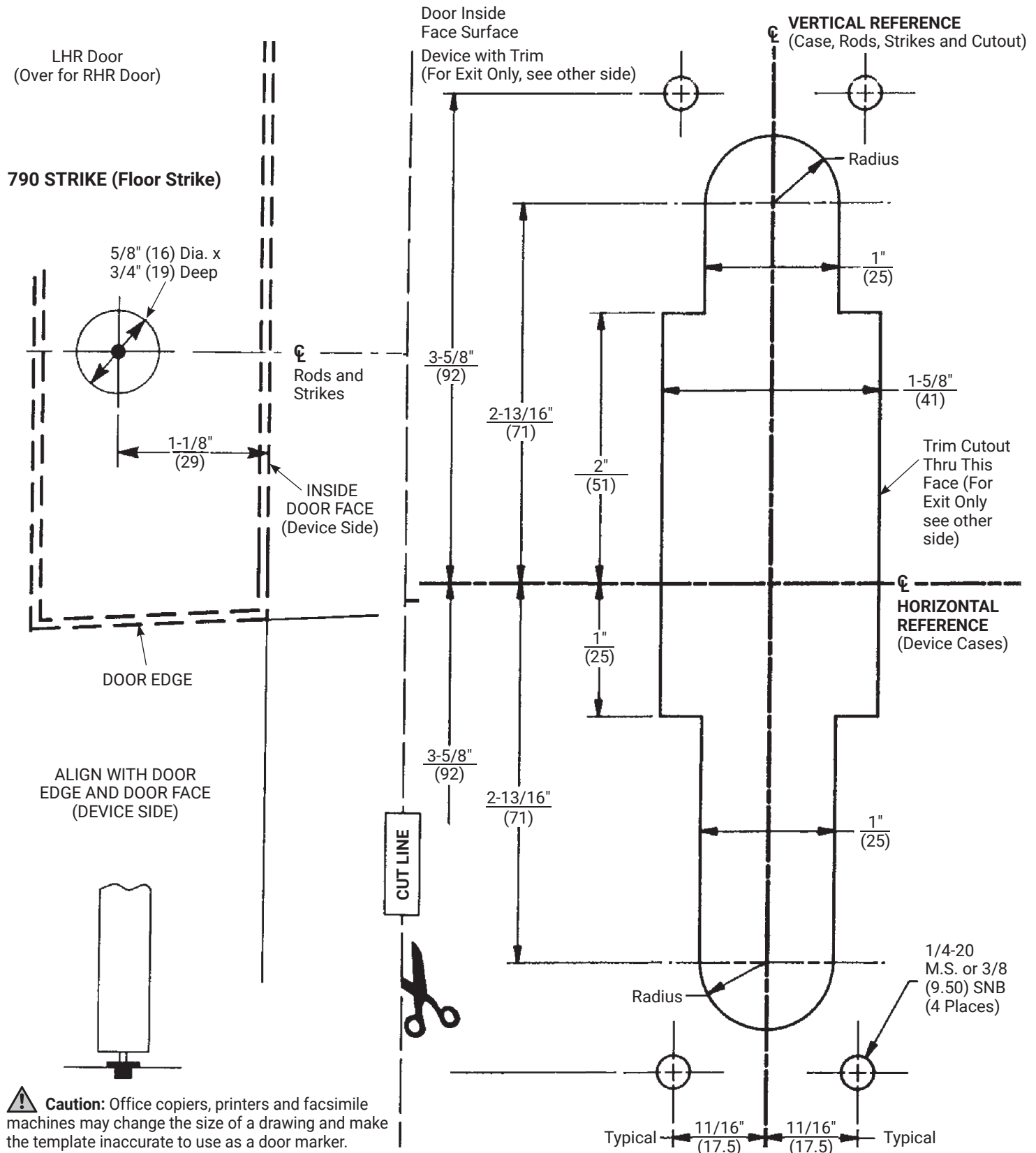
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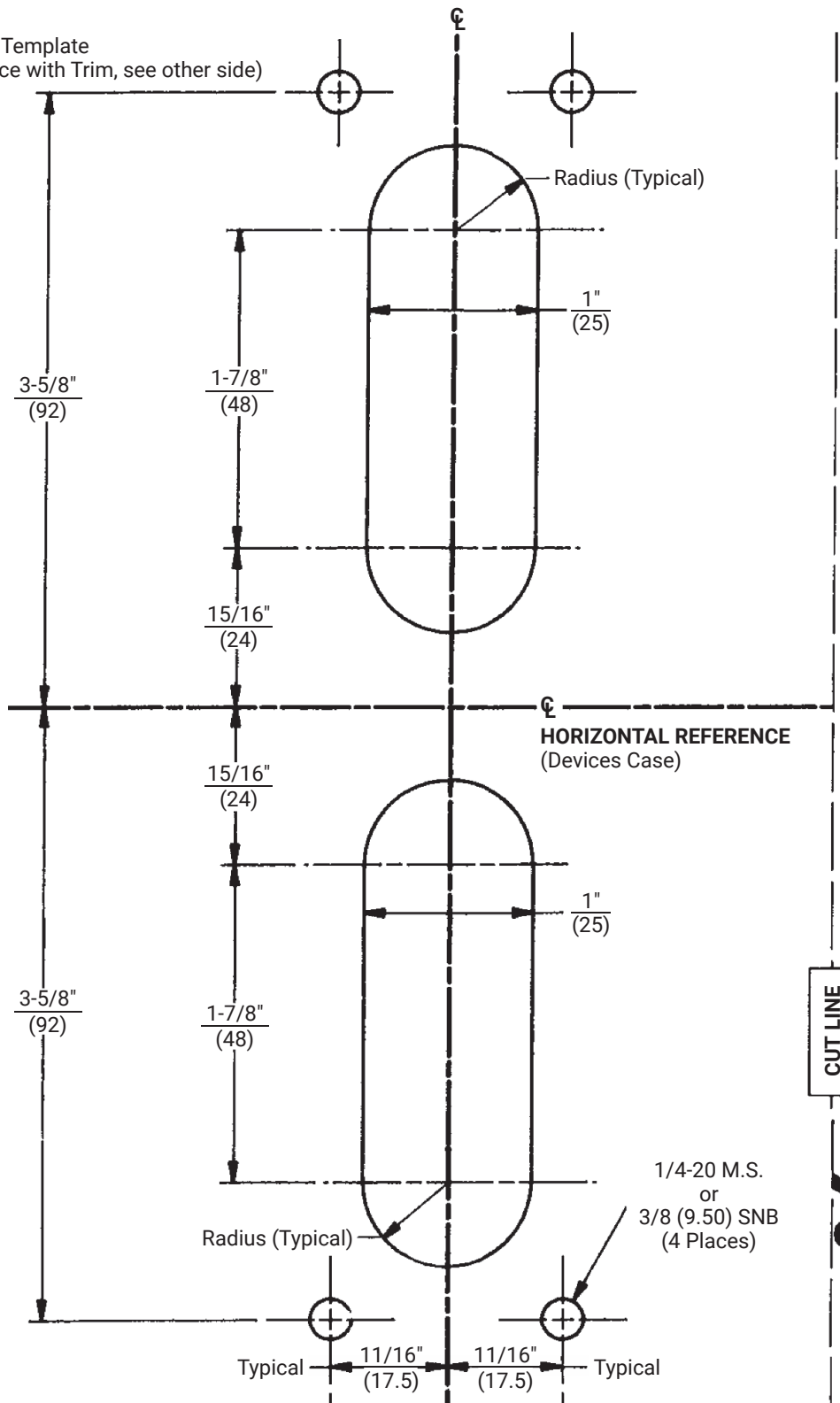
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Door Inside  
Face Surface

**VERTICAL REFERENCE**  
(Case, Rods, Strikes, and Cutout)

Exit Only Template  
(For Device with Trim, see other side)



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ALIGN WITH DOOR  
EDGE AND DOOR  
FACE (DEVICE SIDE)

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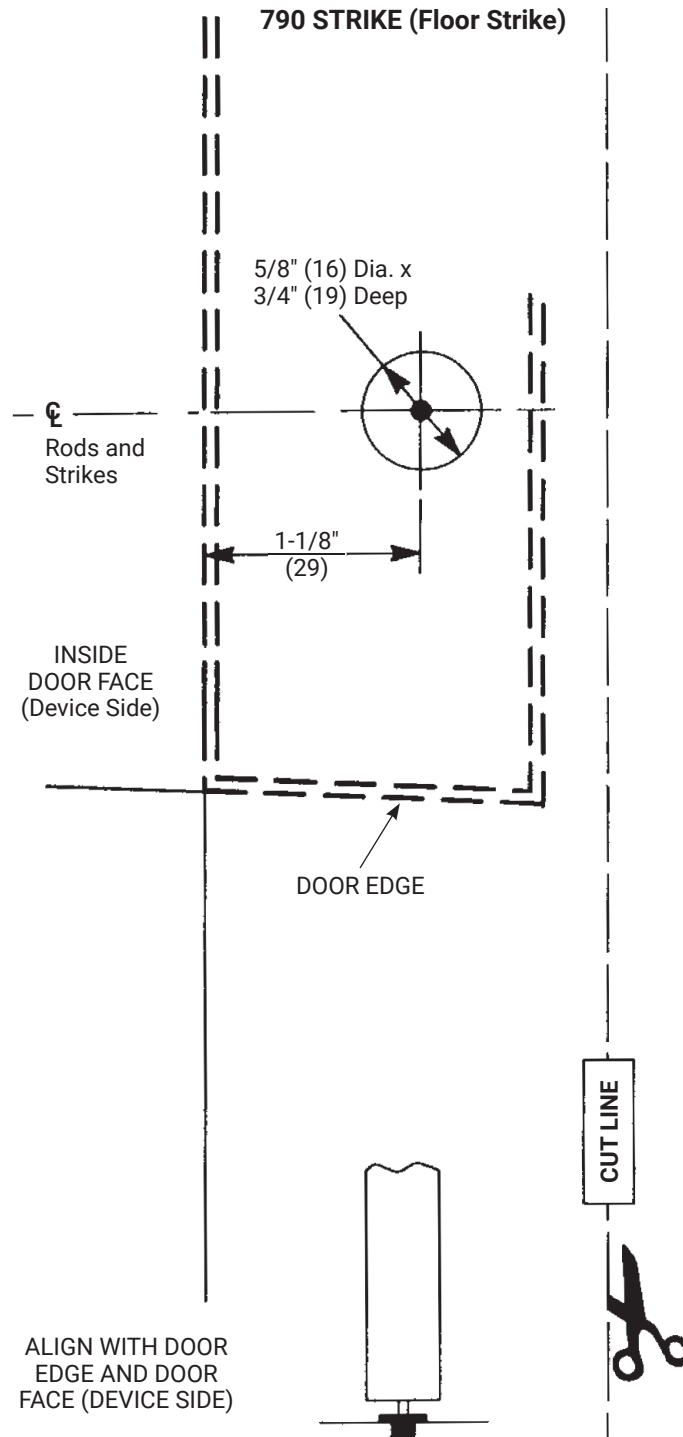
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## Installation Instructions

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RHR Door  
(Over for LHR Door)



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