

## 7120(F)Series Concealed Vertical Rod Exit Devices Installation Instructions







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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 Strike" and "Floor Strike" templates, aligned on centerline of Rods and Strikes on door. Tape templates in place. Note: An auxiliary door marker is included to verify correct door preparation. Reinforced doors and frames, with factory made cutouts, are recommended.
- D. Locate and tape Trim Template to door (See instructions packed with Trim).
- E. Spot and prepare holes:

**Device Latch Assembly:** 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; Note: Third Screw MUST only be used to lock Strike in final position (Step 8C).

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



### 3. Size Device



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## 4. Rod Assembly and Preliminary Adjustment

- A. Remove door from opening. Set flat, device side up. (Do not hang door until Step 8 of device installation sheet)
- B. Set length of Top Rod Assembly (see Detail I).
- C. Connect Top & Bottom Rods to Arm/Bracket Assemblies. (2 Cotter Pins each)
- D. Align Rod Setup Gauge over Device Cutouts and Centerlines. Tape Gauge to door face.
- E. Connect top latch to Rod Assembly.
- F. Set Top Latch and Rod Assembly in place on door. Maintain 1/8"(3) location from top as shown.
- G. Align Yoke Pin holes in Arm and Bracket Assembly with Alignment Hole in Rod Setup Gauge. Adjust top Latch and Rod Assembly for proper alignment. Latchbolt must be extended. (See Detail 2).
- H. Thread bottom bolt into Bottom Rod Assembly. Set Bottom Bolt Rod Assembly in place on door. Align Yoke pin hole in the Bottom Arm and Bracket Assembly with Alignment Hole in Rod Setup Gauge. Adjust Bottom Bolt until it protrudes 3/8"(10) + the gap from Step 1, past the bottom edge of door. Make sure Bottom Bolt is fully extended, (See Detail 3).

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## 6. Install Device

- A. Mount trim when required per installation instruction sheet provided with trim pack.
- B. Seat device in place using the Temporary Screws from Step 5 to position the Yoke Pins to the latch head. Install E-Ring into Yoke Pin Grooves. (See Detail 1).
- C. Fasten device Latch Head (2) 1/4-20 PPHMS or 3/8" (10) dia. SNB.
- D. Remove Temporary Screws. Note: be certain to tighten Yoke Pins after removal of Temporary Screws.
- E. Center end of device on horizontal reference line of door. using the End Clamp as a template, locate the end clamp mounting holes.
- F. Prepare end clamp holes and mount End Clamp using (2) 1/4-20 PPHMS or 3/8" (10) SNB







# 7. Install Strikes



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### 8. Complete Installation



**A.** Rehang the door plumb and true to the opening. Set strike roller between tripping lever and bolt. DO NOT PRELOAD THE BOLT. Shim strike as needed.

**NOTE:** Rods should move freely inside door. Bolts extend automatically and should deadlock when door closes and top strike hits tripping lever. Top bolt should retract flat. Bottom bolt should travel 1/2" and engage 3/8" into strike in down position, without dragging on floor surface in up position.

Test device action by touchbar, by trim, and by dogging. Adjust as needed.

#### **B. Rod Adjustment for Proper Bolt Throw**

1. Use 3/32" hex wrench to loosen set screws B1 and B2.

2. Adjust the top rod first with adjusting screw C1. With device in dogged position (panic devices) or touchbar fully depressed (fire devices) adjust top rod so that the top latchbolt is flush and the hold back feature is engaged. Lengthen top rod an additional 1/2 turn for proper latchbolt positioning.

NOTE: If adjusting screws bottom out before proper device operation, door and device must be removed so larger adjustments may be made by threading rod in or out, or by moving cotter pin to different hole in rod (See Installation Instructions Step 4).

3. Adjust bottom rod with adjusting screw C2. With top latch retracted in hold back position, and touchbar dogged or fully depressed, adjust bottom rod so that the deadbolt clears the strike by 1/16". The bottom rod should be in position in the active case with the square head of the connector hanging in the Guide. (See note in Step 2 above).

4. Check device operation by opening and closing the door. An additional minor adjustment may be required for full retraction and correct strike engagement.

**NOTE:** To avoid thread damage and provide positive locking, be sure set screws engage flats on adjusting screws.

- **C.** After acceptable device function, install third screw in top strike to lock strike in position with 10-24 x 3/4" PFHMS.
- D. Install device cover and end cap with (2) 8-32 PFHMS each.

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#### Instructions:

- 1. 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.
- 2. Dimensions 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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