

7220M(F) Concealed Vertical Rod

ASSA ABLOY

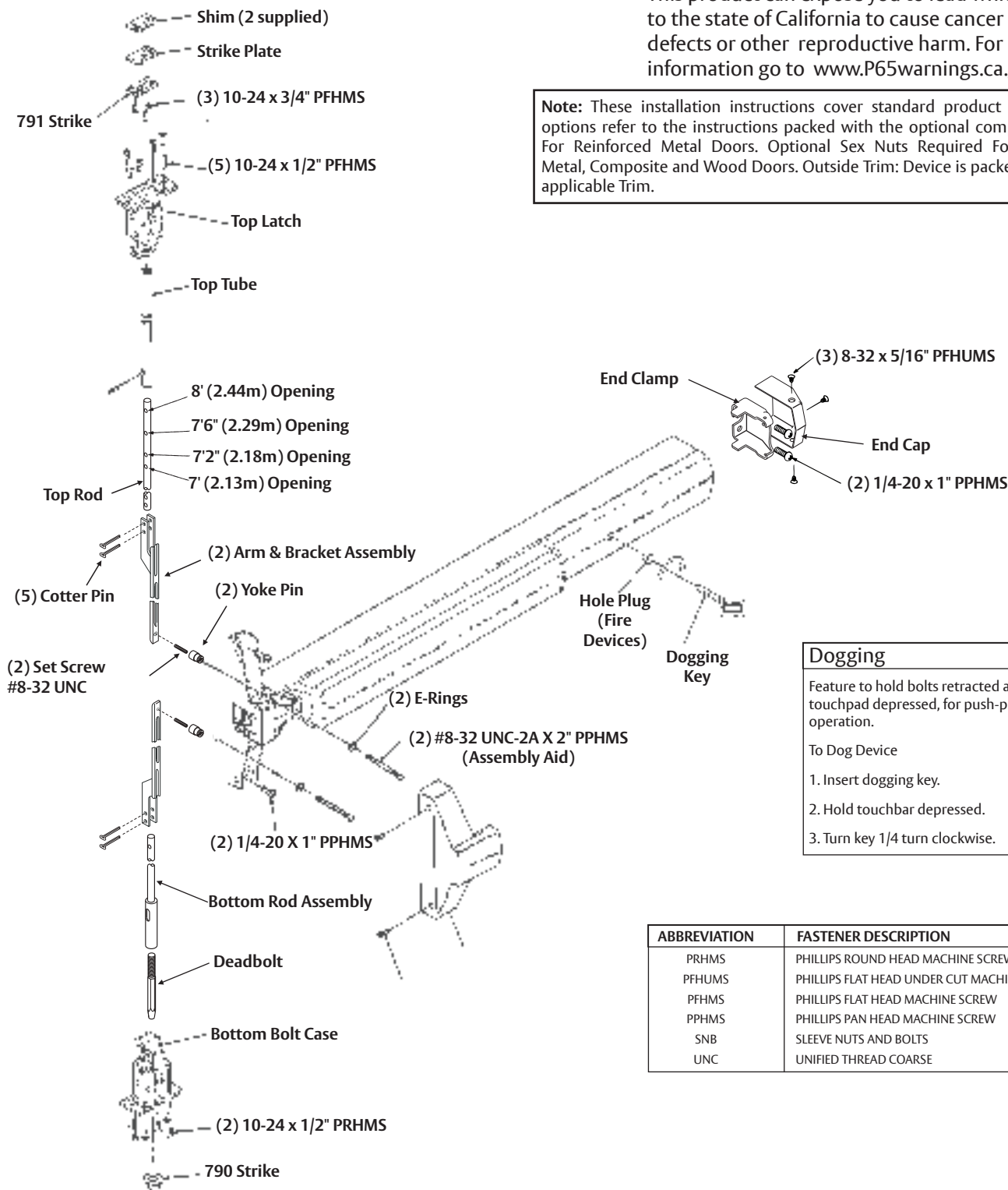
Exit Device

Installation Instructions

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.

Note: These installation instructions cover standard product only. To install options refer to the instructions packed with the optional component. Packed For Reinforced Metal Doors. Optional Sex Nuts Required For Unreinforced Metal, Composite and Wood Doors. Outside Trim: Device is packed ready for any applicable 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.

ABBREVIATION	FASTENER DESCRIPTION
PRHMS	PHILLIPS ROUND HEAD MACHINE SCREW
PFHUMS	PHILLIPS FLAT HEAD UNDER CUT MACHINE SCREW
PFHMS	PHILLIPS FLAT HEAD MACHINE SCREW
PPHMS	PHILLIPS PAN HEAD MACHINE SCREW
SNB	SLEEVE NUTS AND BOLTS
UNC	UNIFIED THREAD COARSE

WARNING

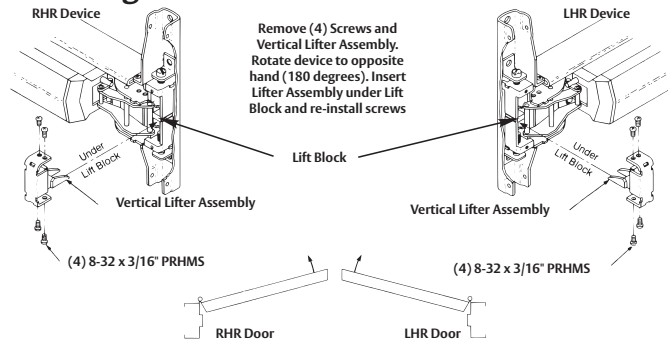
Attention Installer: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing 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.

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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

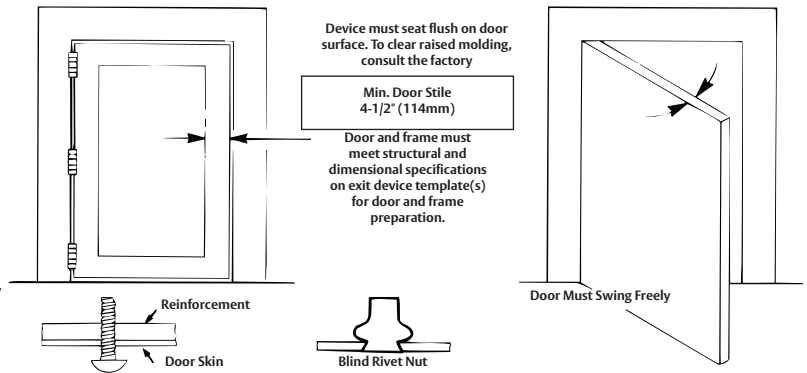
Unreinforced Doors or Frames

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.

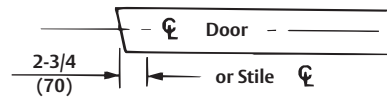
Recommended fasteners for unreinforced openings are not necessarily supplied by Locks & Hardware.



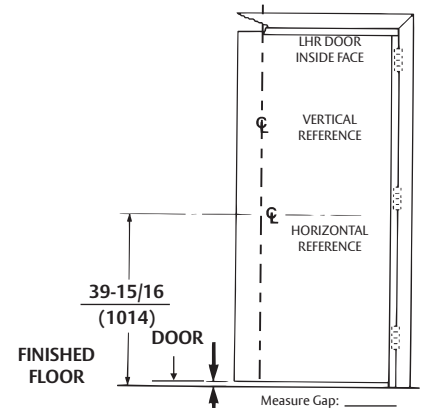
1. Mark Door

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.



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



2. Prepare Door

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 & Strikes from "Device Template" to door top and bottom, on door face.

C. Locate "Top Strike" and "Floor Strike" templates, aligned on the Vertical Reference. 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).

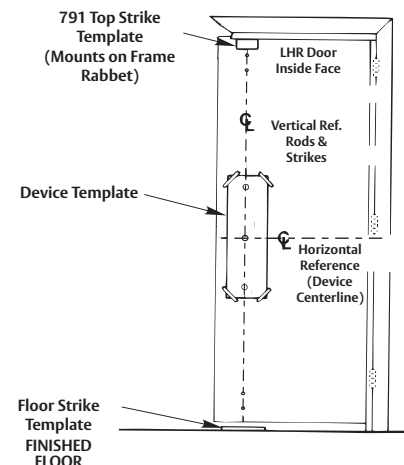
E. Mark and prepare holes:

Device: Each (2) 1/4-20 Machine Screws (Metal reinforced door only.) or (2) 3/8" (10mm) Dia. Sex Nuts & Bolts

Top Strike: (2) 10-24 Machine Screws or (2) #10 Wood Screws

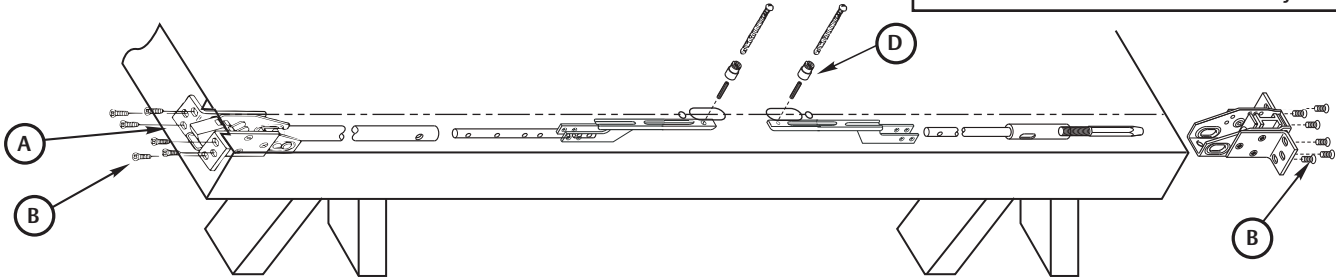
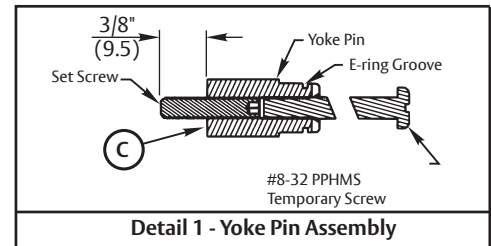
NOTE: Third screw MUST ONLY be used to lock Strike in final position (Step 8C).

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



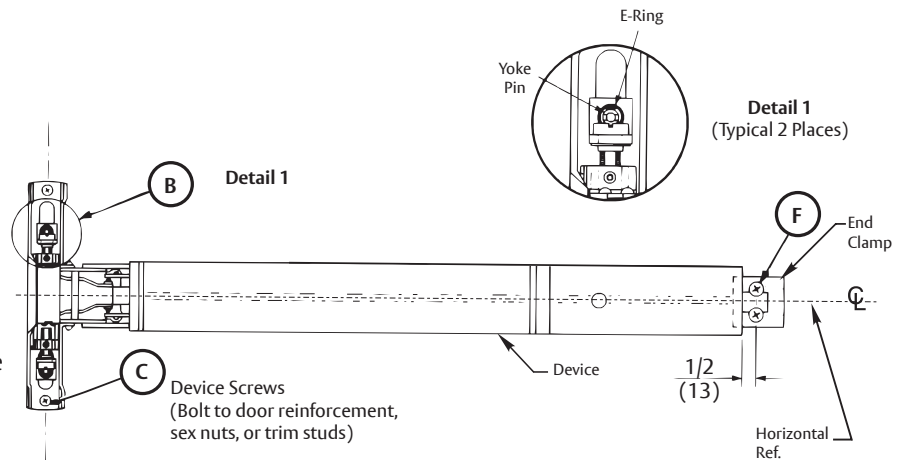
5. Install Rods

- Slide Rod Assemblies into door.
- Attach Top Latch and Bottom Bolt Case with (4) #10-24 X 1/2" PFHMS.
- Thread Set Screw into Yoke Pins (Insert With Hex Socket End Inside Pin). Thread #8-32 X 2" PPHMS Temporary Screws into slotted end of Yoke Pins, until seated to Hex Head Set Screw. (See Detail 1.)
- Install (2) Yoke Pin Assemblies into Arm and Bracket Assemblies.

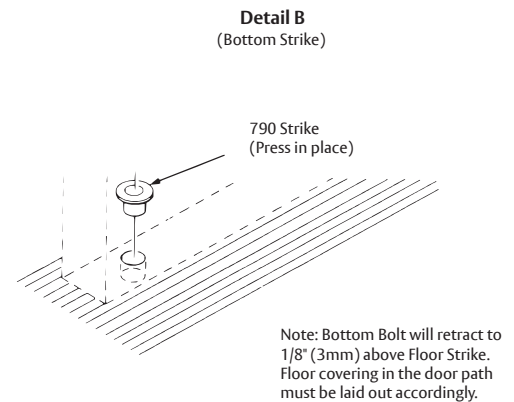
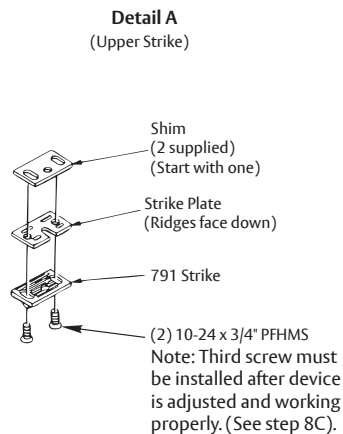
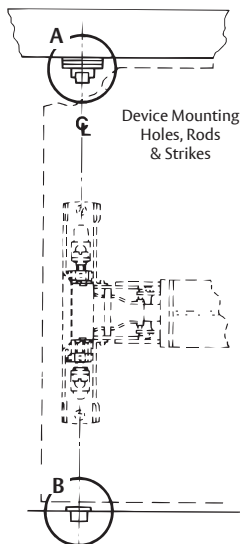


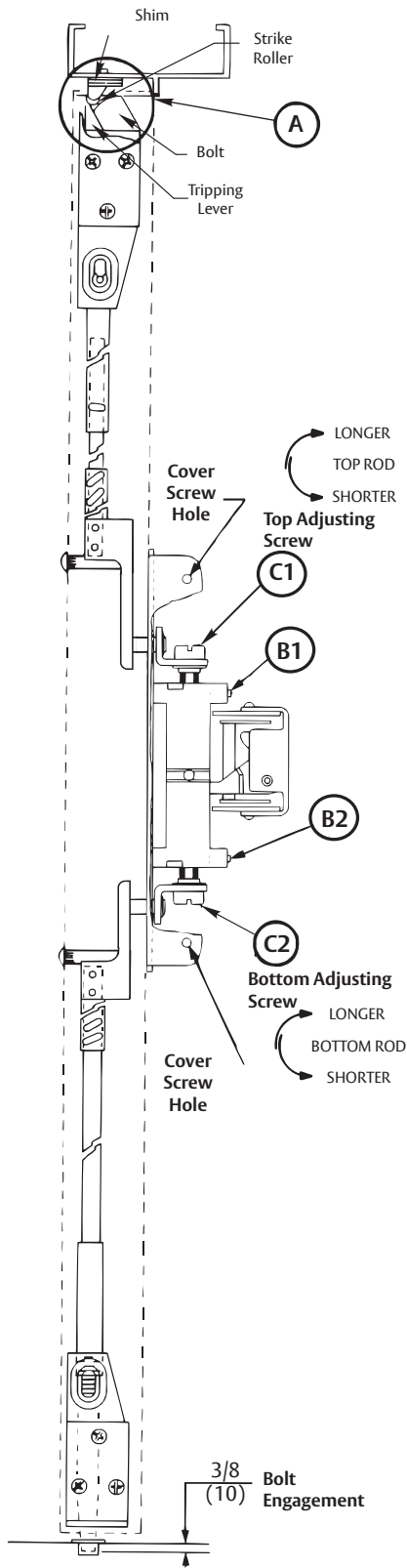
6. Install Device

- Mount trim (follow instructions packed with trim).
- 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).
- Fasten device Latch Head (2) 1/4-20 PPHMS or 3/8" (10) dia. SNB.
- Remove Temporary Screws. Note: Tighten Yoke Pins after removal of Temporary screws.
- Center end of device on horizontal reference line of door. Using the End Clamp as a template, locate the end clamp mounting holes.
- Prepare end clamp holes and mount End Clamp using (2) 1/4-20 PPHMS or 3/8" (10) SNB.



7. Install Strikes





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".

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.

