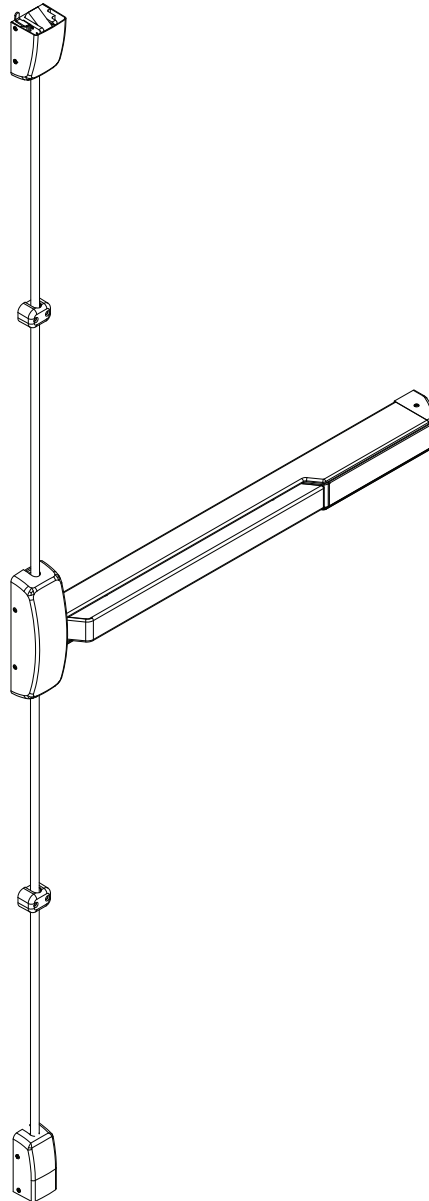


Installation Instructions

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PE8700 Series (Standard, 12-, HC-, & HC4-)

Surface Vertical Rod Exit 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.

WARNING

Attention Installer: Improper installation may result in damage to the product and void the factory warranty.

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A8307-1 5/23

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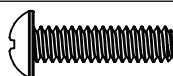
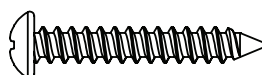

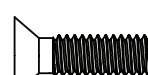
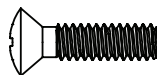
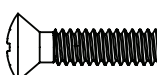
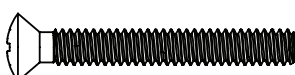
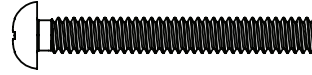
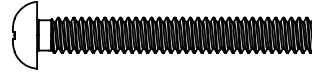
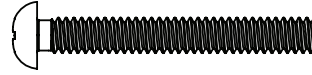
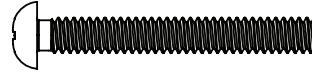
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Surface Vertical Rod Exit Device

Installation Instructions

Screw Chart

DESCRIPTION	TOTAL QTY SUPPLIED	WHERE USED
 <p>#10-24 X 3/4" FLAT HEAD MACHINE SCREW</p>	<p>10 STANDARD</p> <p>4 FIRE RATED, HC</p>	<p>(4) CHASSIS CORNER MOUNTING HOLES (METAL DOOR)</p> <p>(3) TOP CASE (STD.) (METAL DOOR)</p> <p>(3) BOTTOM CASE (STD.) (METAL DOOR)</p>
 <p>#10 X 1-1/4" FLAT HEAD WOOD SCREW</p>	<p>10 STANDARD</p> <p>8 FIRE RATED</p>	<p>(4) CHASSIS CORNER MOUNTING HOLES (WOOD DOOR)</p> <p>(3) TOP CASE (STD.) (WOOD DOOR)</p> <p>(2) TOP CASE (FIRE RATED) BOTTOM MOUNTING HOLES (WOOD DOOR)</p> <p>(3) BOTTOM CASE (STD.) (WOOD DOOR)</p> <p>(2) BOTTOM CASE (FIRE RATED) TOP MOUNTING HOLES (WOOD DOOR)</p>
 <p>#10-24 X 3/4" ROUND HEAD MACHINE SCREW</p>	2	(2) REAR MOUNTING PLATE (METAL DOOR)
 <p>#10 X 1-1/4" ROUND HEAD WOOD SCREW</p>	2	(2) REAR MOUNTING PLATE (WOOD DOOR)
 <p>#12-24 X 3/4" ROUND HEAD MACHINE SCREW</p>	4	(2) TOP CASE (HC) TOP MOUNTING HOLES
 <p>#12-24 X 3/4" FLAT HEAD MACHINE SCREW</p>	8	(2) BOTTOM CASE (HC) BOTTOM MOUNTING HOLES
 <p>#10-24 X 3/4" FLAT HEAD MACHINE SCREW</p>	8	(2) BOTTOM CASE (HC) TOP MOUNTING HOLES
 <p>#10-24 X 3/4" OVAL HEAD MACHINE SCREW</p>	6	(4) 654 TOP LATCH STRIKE
 <p>#10-24 X 1-1/2" OVAL HEAD W/ GROMMET NUT MACHINE SCREW</p>	2	(2) TOP CASE (FIRE RATED) BOTTOM MOUNTING HOLES (METAL DOOR)
 <p>#10-24 X 1-1/2" OVAL HEAD W/ GROMMET NUT MACHINE SCREW</p>	2	(2) BOTTOM CASE (FIRE RATED) TOP MOUNTING HOLES (METAL DOOR)
 <p>#10-24 X 1-1/2" ROUND HEAD W/ GROMMET NUT MACHINE SCREW</p>	2	(2) 648 TRANSOM STRIKE
 <p>#10-24 X 1-1/2" ROUND HEAD W/ GROMMET NUT MACHINE SCREW</p>	2	(2) TOP CASE (FIRE RATED) TOP MOUNTING HOLES
 <p>#10-24 X 1-1/2" ROUND HEAD W/ GROMMET NUT MACHINE SCREW</p>	2	(2) BOTTOM CASE (FIRE RATED) BOTTOM MOUNTING HOLES

PE8700 Series (Standard, 12-, HC-, & HC4)

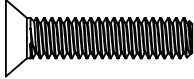
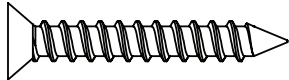
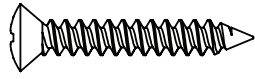
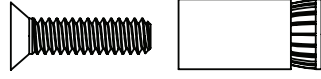
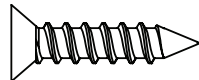

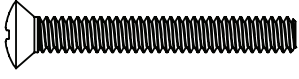
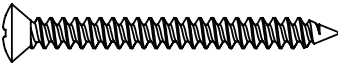


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Surface Vertical Rod Exit Device

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Installation Instructions

Screw Chart

DESCRIPTION	TOTAL QTY SUPPLIED	WHERE USED
 <p>#12-24 X 1" FLAT HEAD MACHINE SCREW</p>	2	(2) 646 TOP STRIKE (METAL FRAME)
 <p>#12 X 1-1/2" FLAT HEAD WOOD SCREW</p>	2	(2) 646 TOP STRIKE (WOOD FRAME)
 <p>#10 X 1-1/4" OVAL HEAD WOOD SCREW</p>	2	(2) 648 TRANSOM STRIKE (WOOD FRAME)
 <p>#10-24 X 3/4" FLAT HEAD MACHINE SCREW WITH CAULKING ANCHOR</p>	2	(2) 624 BOTTOM STRIKE
 <p>#12 X 1" FLAT HEAD WOOD SCREW</p>	2	(2) 624 BOTTOM STRIKE (WOOD FRAME)
 <p>1/4"-20 X 2" FLAT HEAD MACHINE SCREW W/ANCHOR</p>	2 (3)	(3) 653 BOTTOM STRIKE (2) 655 BOTTOM STRIKE
 <p>#10-24 X 1-1/2" OVAL HEAD MACHINE SCREW</p>	4	(2) TOP ROD GUIDE (METAL DOOR) (2) BOTTOM ROD GUIDE (METAL DOOR)
 <p>#10 X 1-3/4" OVAL HEAD WOOD SCREW</p>	4	(2) TOP ROD GUIDE (WOOD DOOR) (2) BOTTOM ROD GUIDE (WOOD DOOR)
 <p>#8-32 X 5/16" W/ #6 OVAL HEAD MACHINE SCREW</p>	14	(4) CHASSIS COVER (2) END CAP (4) TOP CASE COVER (4) BOTTOM CASE COVER
 <p>1/4"-20 X 2-3/8" KNURLED FLAT HEAD MACHINE SCREW</p>	2	(2) EXIT TRIM (IF USED)

PE8700 Series (Standard, 12-, HC-, & HC4)

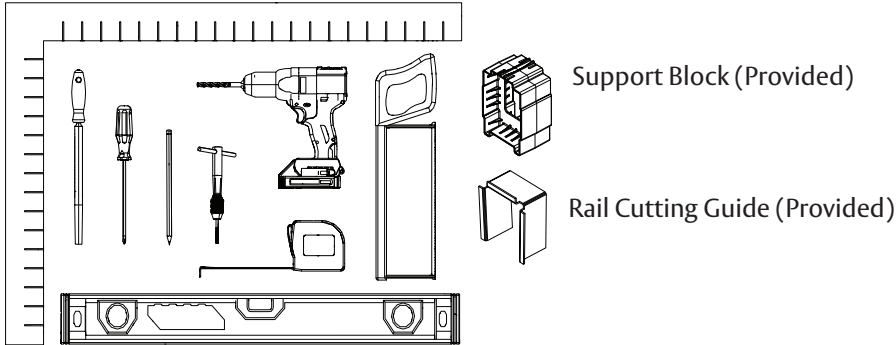
Surface Vertical Rod Exit Device

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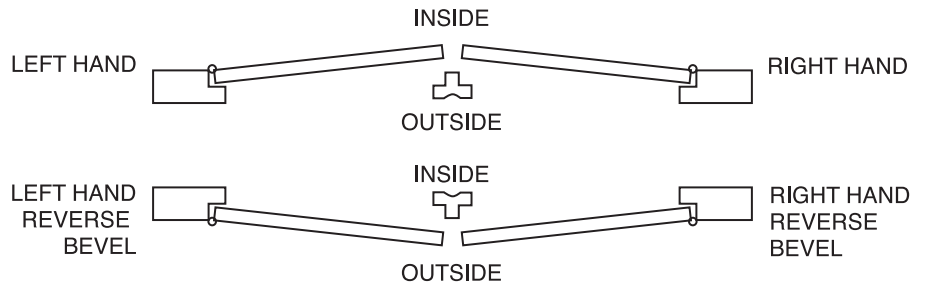
Installation Instructions

Tools Needed



Handing

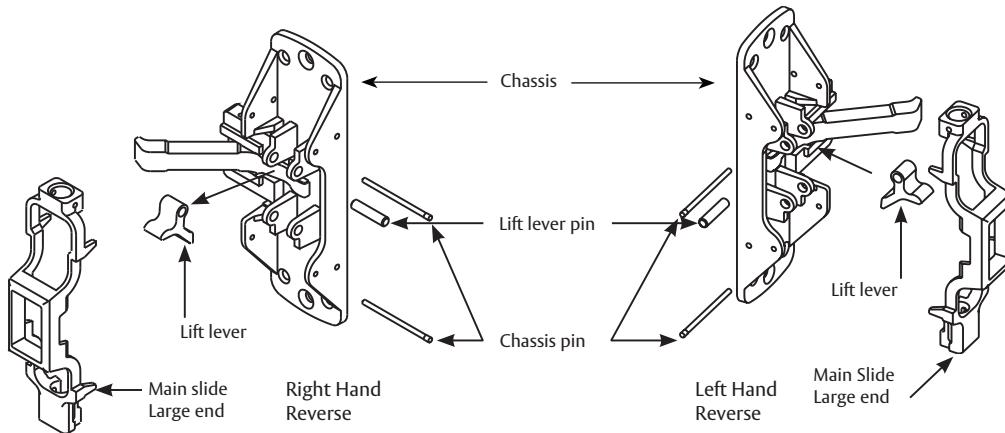
All PE8700 series devices are handed, except for the PE8710, which is field reversible. The PE8710 is shipped as LHR, unless ordered as RHR.



DOOR HANDS DETERMINED FROM OUTSIDE OF DOOR OR SECURED SIDE

To Change Hand of PE8710 Exit Device:

1. Remove both chassis pins and main slide.
2. Remove lift lever pin and lift lever.
3. Rotate chassis 180° and reposition lift lever and lift lever pin as shown below
4. Position main slide with large end of main slide at the bottom and retain with chassis pins.



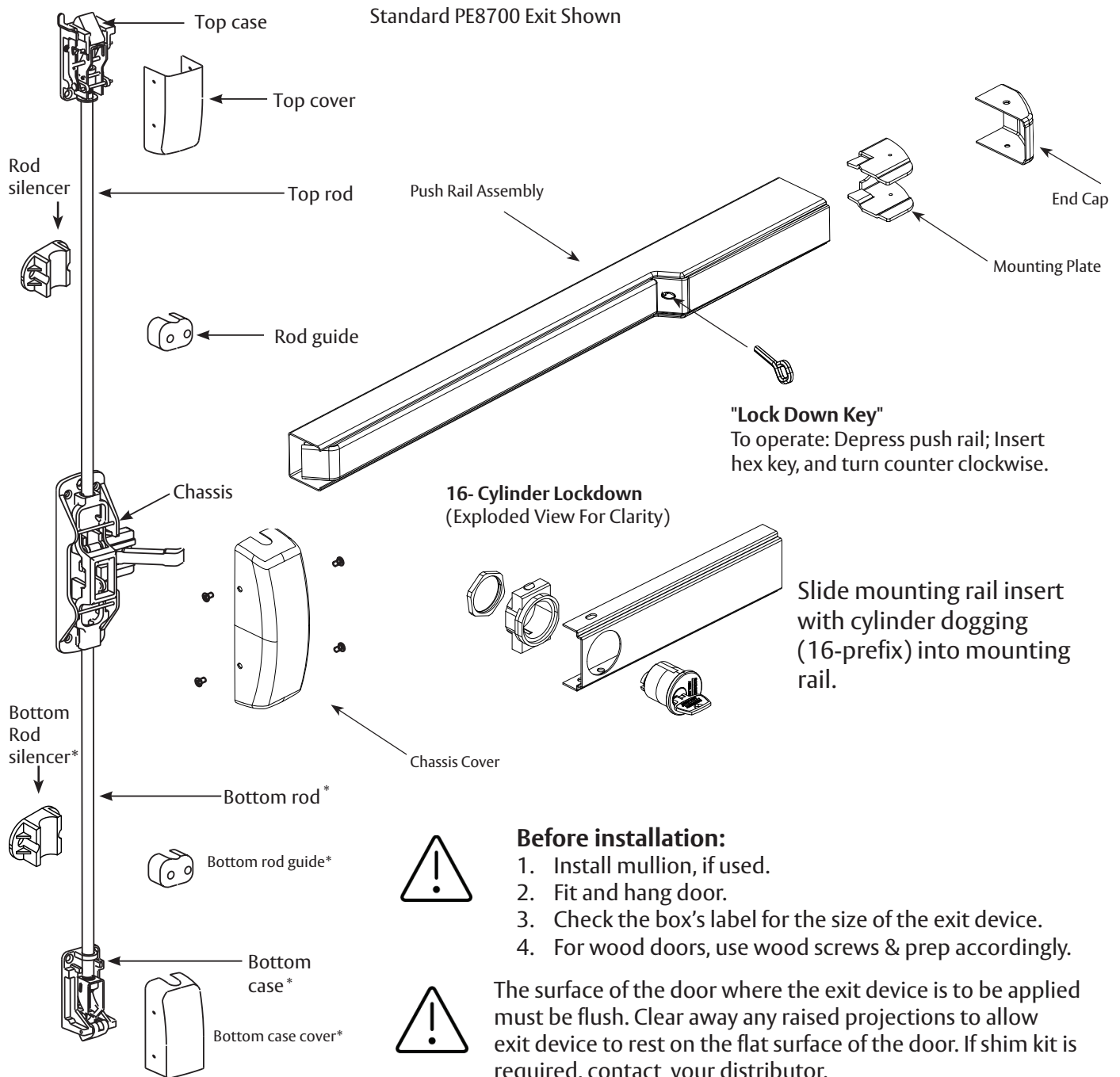
PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

Installation Instructions



Product Overview



Before installation:

1. Install mullion, if used.
2. Fit and hang door.
3. Check the box's label for the size of the exit device.
4. For wood doors, use wood screws & prep accordingly.



The surface of the door where the exit device is to be applied must be flush. Clear away any raised projections to allow exit device to rest on the flat surface of the door. If shim kit is required, contact your distributor.

Note: Please refer to trim and other installation instructions provided in the box.

*Not included with NB- option.

PE8700 Series (Standard, 12-, HC-, & HC4)

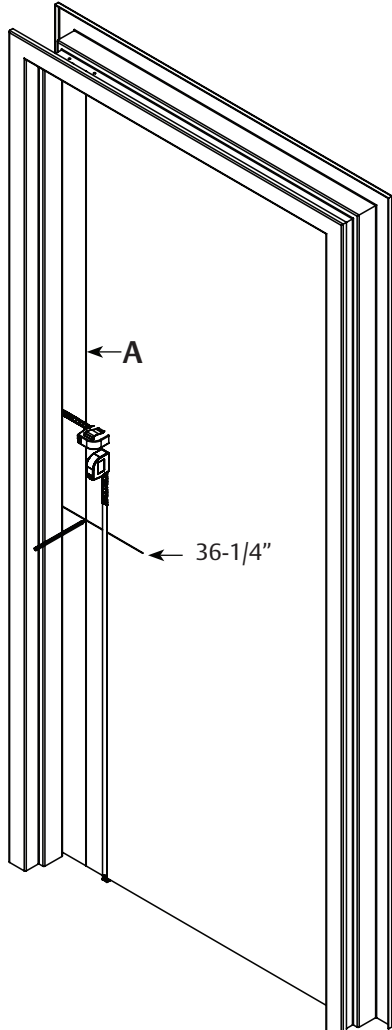
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Surface Vertical Rod Exit Device

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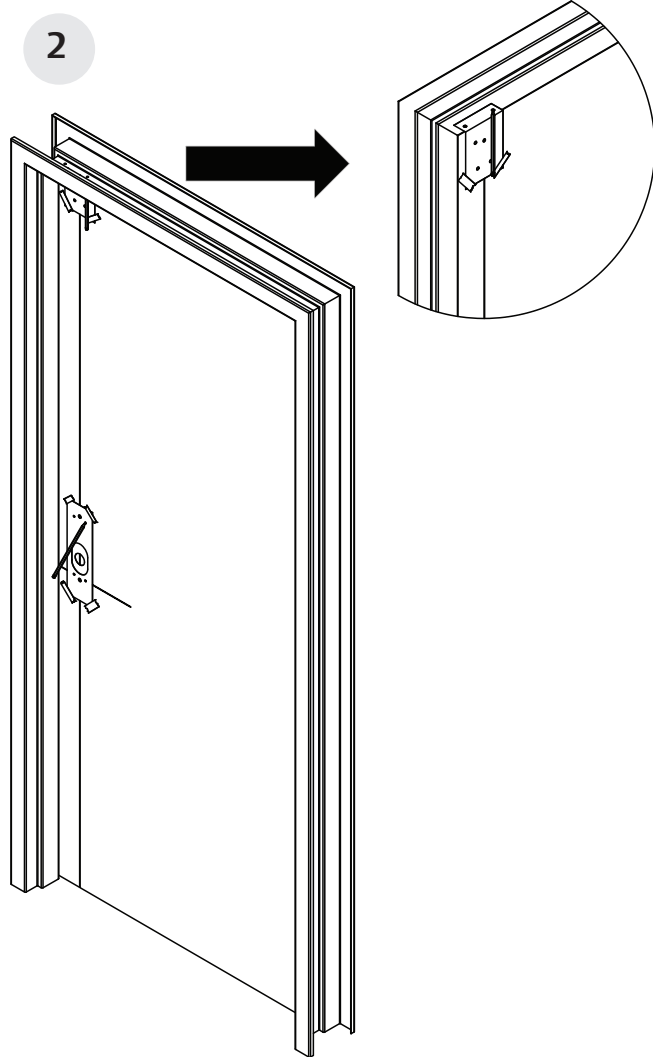
Installation Instructions

1



- With door closed, determine dimension “A” to located vertical reference line.
- If door stile is 4-1/2” wide or wider, “A” is 2-3/4”. If door stile is less than 4-1/2”, “A” is 1/2 the exposed width of the door stile when the door is closed against the door stop.
- Standard rail centerline height is 39-5/8” above the finished floor.
- Horizontal reference line is 36-1/4” standard. (Location of lower chassis mounting holes.)

2



- With door closed, tape template for chassis/trim on inside of door, along vertical and horizontal reference lines.
- Fold top case template and tape on inside of door along vertical reference lines.

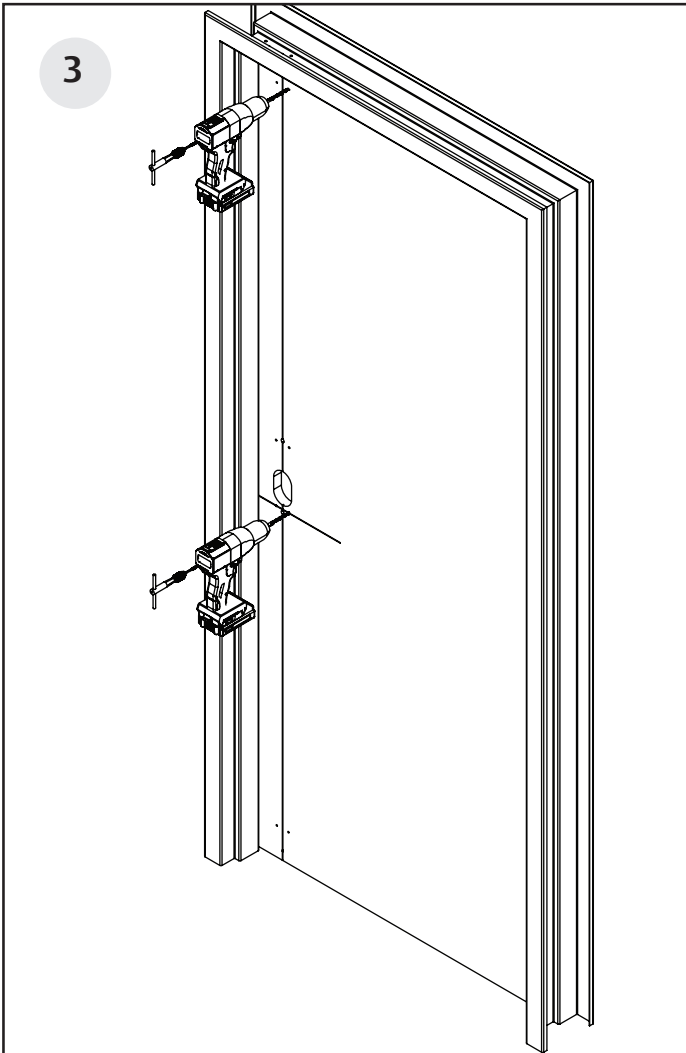
PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

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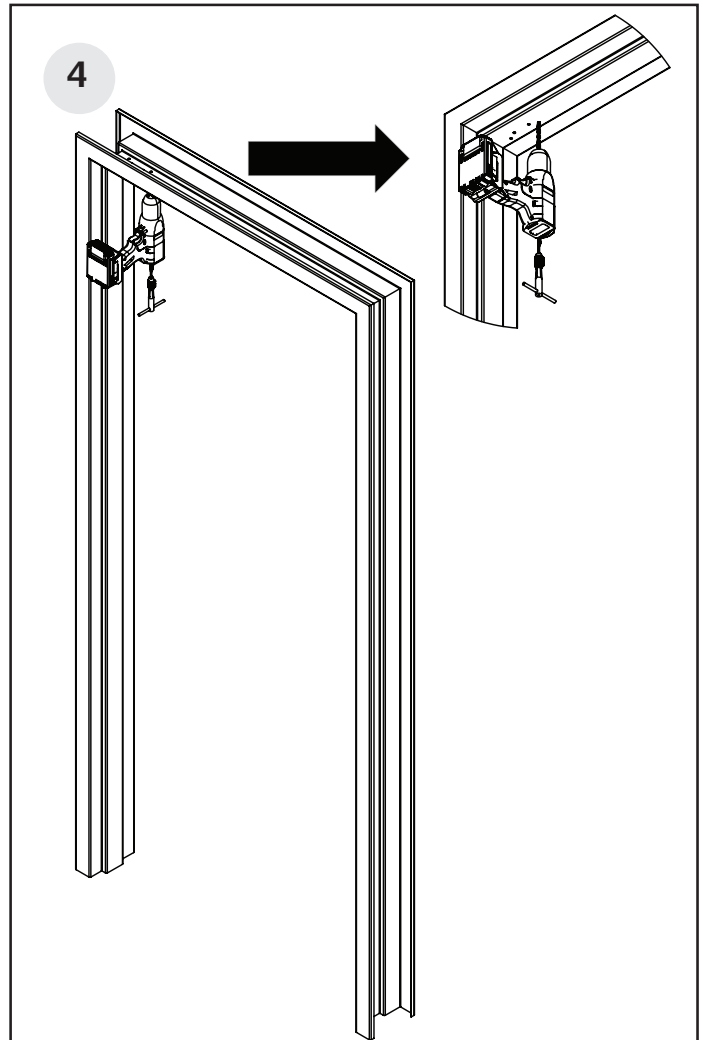
Installation Instructions



- Drill and tap all holes #10-24 from inside of door, for chassis and top case.
- Mortise pockets for outside trim, if required. See installation instructions supplied with trim for details.

NOTE: Any holes drilled from the outside need pilot holes drilled from the inside to ensure good alignment.

NOTE: For electrical trim applications, ensure access to a raceway from the trim to the electric hinge or armored door loop.



- Drill and tap all strike mounting holes for #12-24 in locations for applicable strike.

PE8700 Series (Standard, 12-, HC-, & HC4)

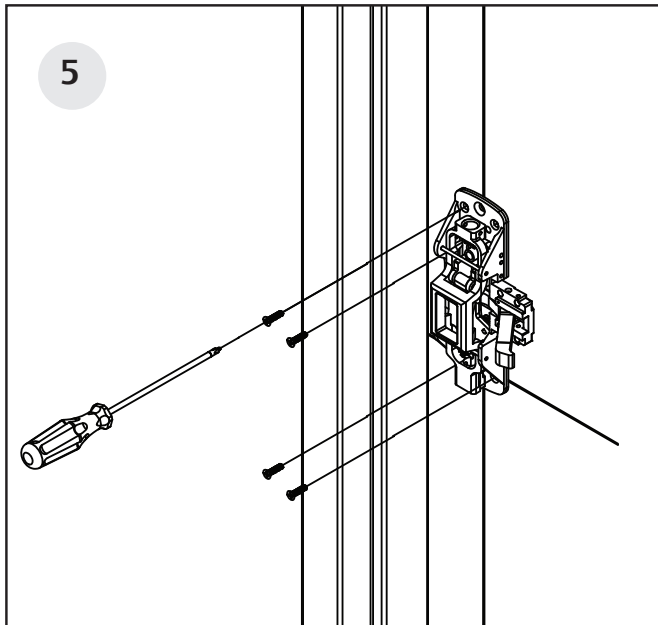
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Surface Vertical Rod Exit Device

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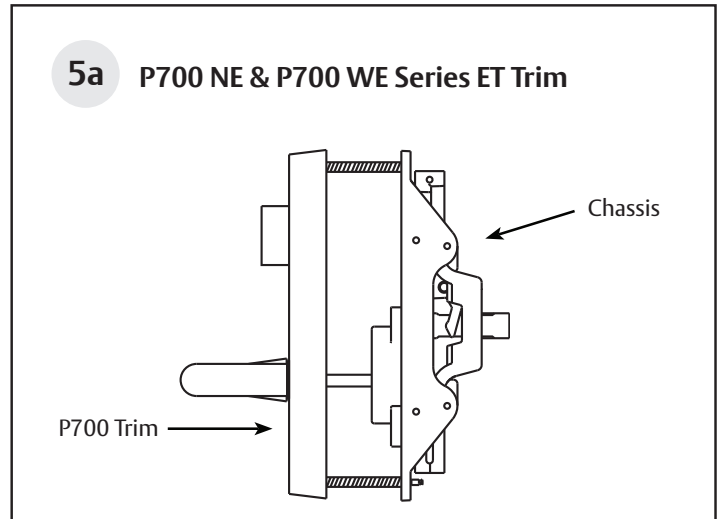
Installation Instructions

5



Install chassis mounting screws. **DO NOT FULLY TIGHTEN.** See steps 5a and 5b for trim mounting.

5a P700 NE & P700 WE Series ET Trim



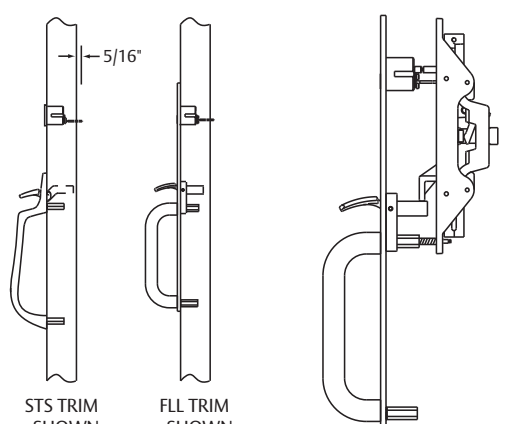
Position ET trim on door. Align spindle with bell housing. Thru-bolt chassis to ET trim with (2) 1/4-20 flat head screws.

5b Thumb Piece Trim

Determining rim cylinder tail length.

For FLL, FLW, MAL, STS or PTB Trim:

1. Position trim on door (except STS).
2. Insert rim cylinder through trim plate (or cylinder collar for STS trim).
3. Mark cylinder tail at 5/16" beyond inside door surface.
4. Remove cylinder and trim from door and cut tail piece as marked.



NOTE: Thumb Trim is not available for HC-PE8700 Series Exit Devices.

PE8700 Series (Standard, 12-, HC-, & HC4)

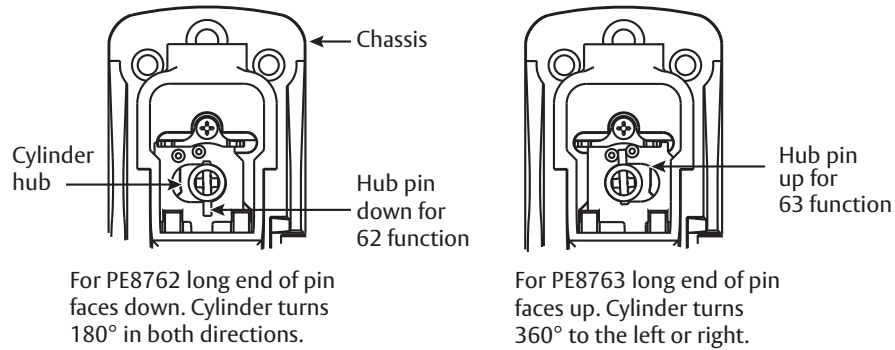
Surface Vertical Rod Exit Device

Installation Instructions

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5b Thumb Piece Trim, Continued



Mounting Trim

1. Hold trim plate to door.
2. Insert cylinder and secure using supplied back plate.
3. Position cylinder hub within the chassis to correct position for desired function (see above).
4. Position chassis on door, align cylinder tail with hub and secure chassis to door with (4) #10 flat head screws using the corner mounting holes. **DO NOT FULLY TIGHTEN.**

NOTE: STS, FLL, FLW and MAL thru-bolt to chassis with (1) 1/4-20 flat head screw. PTB trim thru-bolts to chassis with (2) 1/4-20 flat head screws. **DO NOT FULLY TIGHTEN.**

PE8700 Series (Standard, 12-, HC-, & HC4)

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Surface Vertical Rod Exit Device

Installation Instructions


Rail cutting guide

If the rail doesn't need to be cut, continue to page 12, step 7.

If the rail must be cut, follow these steps on page 10 and 11:

Refer to the individual exit device installation instructions for rail cutting requirements / restrictions. Instructions will vary based on device type and options.

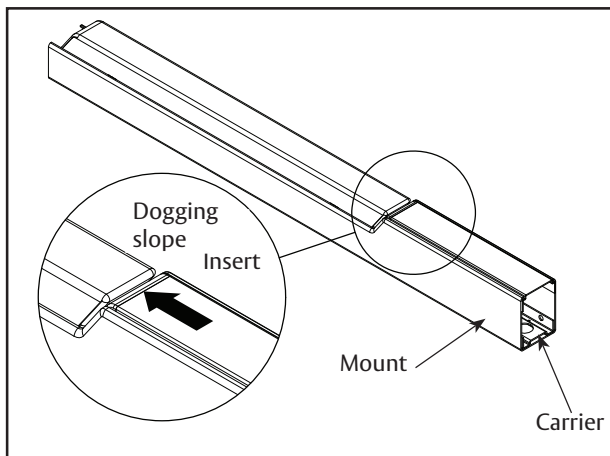
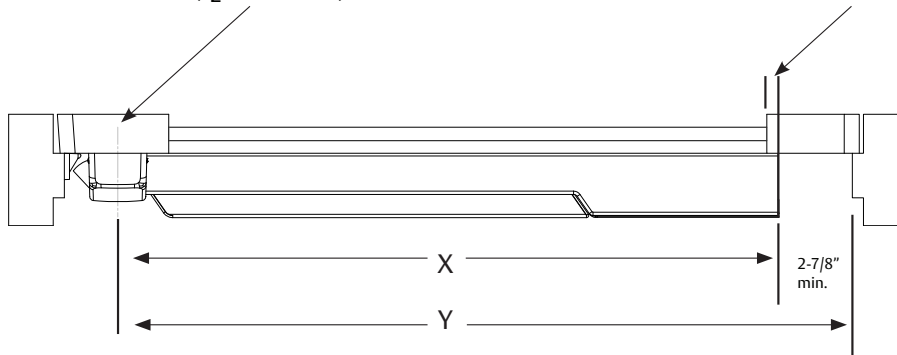
- Determine cut off dimension "X" by subtracting 2-7/8" from dimension "Y". Mark cut off point on mounting rail. (See below.)

 Do not cut closer than 1-5/8" from the the front edge of the rail insert.

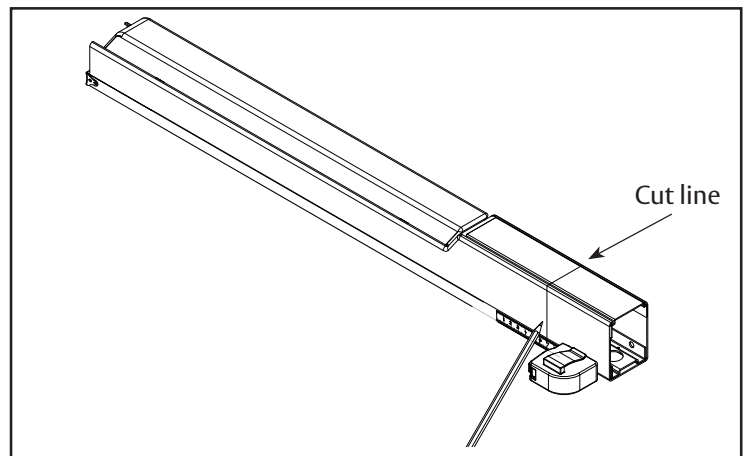
Information for Cutting Rails		
Rail Sizes	Door Widths	
	Max	Min
E	32"	24"
F	36"	33"
J	42"	37"
G	48"	43"

Verticle reference line (C of chassis)

For doors with stile rail, the stile must overlap by 5/16" min.



A. Ensure there isn't a gap between the insert and the dogging slope, and the carrier is flush with the mount.



B. Mark rail at the required cut length.

PE8700 Series (Standard, 12-, HC-, & HC4)

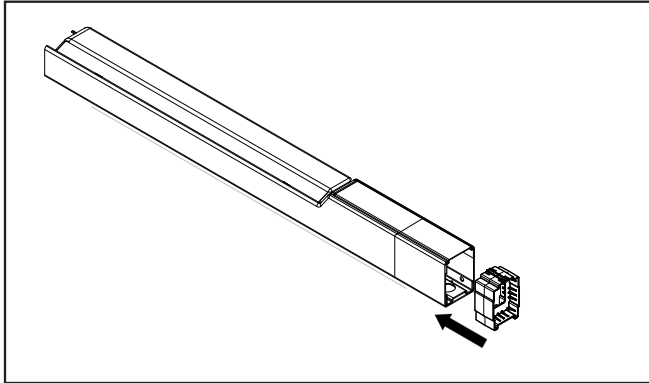
Surface Vertical Rod Exit Device

Installation Instructions

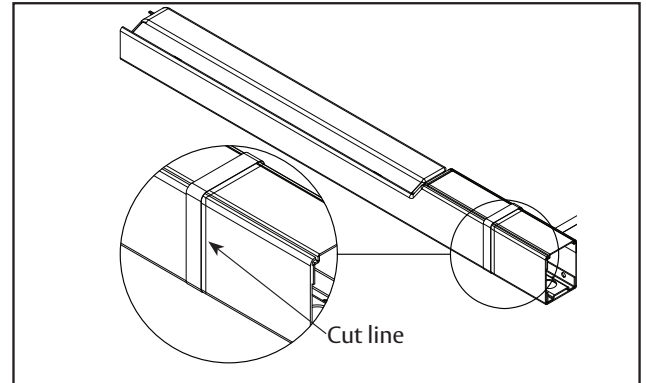
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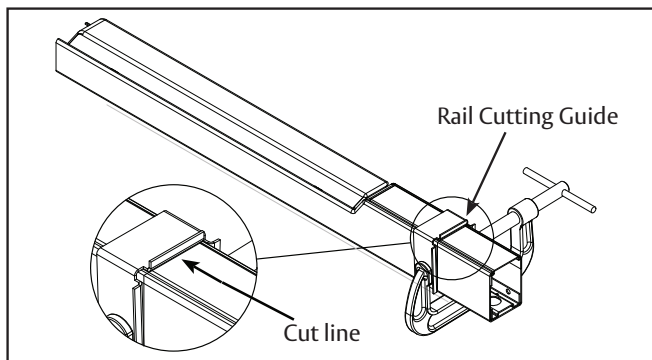
Rail cutting guide, continued.



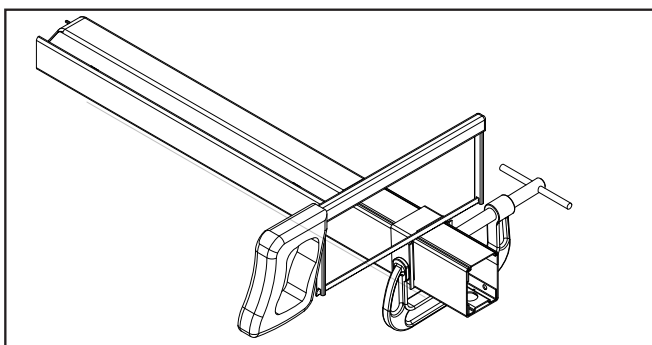
C. Ensure plastic insert support is installed under the cut line.



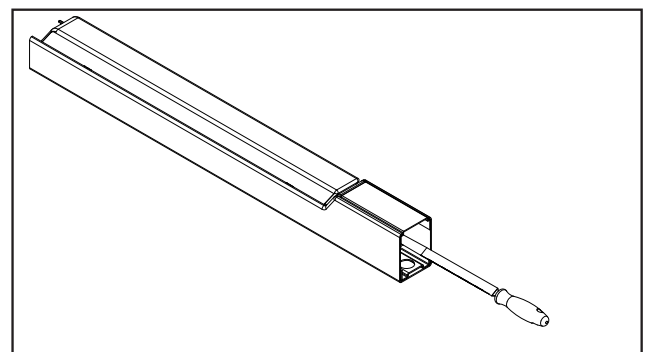
D. Wrap the rail and insert in masking tape, as shown.



E. Place the rail cutting guide over the masking tape and align it with the cut line. Clamp the cut guide to the rail using a C-clamp.



F. Using a hack saw with a new blade or a chop saw with a metal cutting blade, cut the rail, ensuring that the blade stays pressed against the rail cutting guide.



G. Deburr and smooth all cut edges with a file.

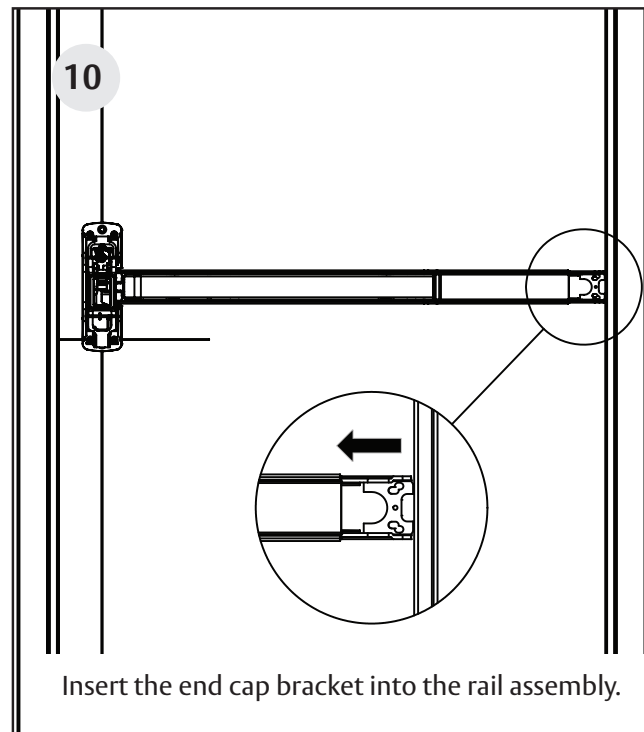
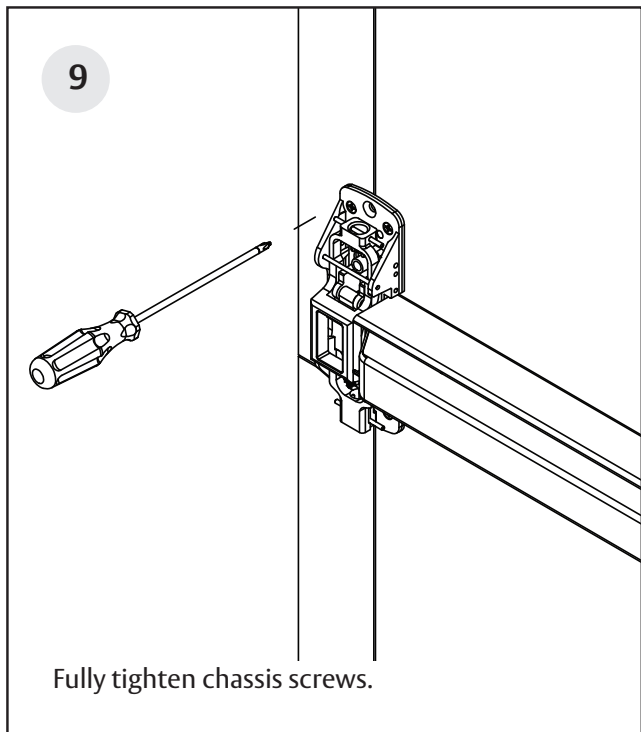
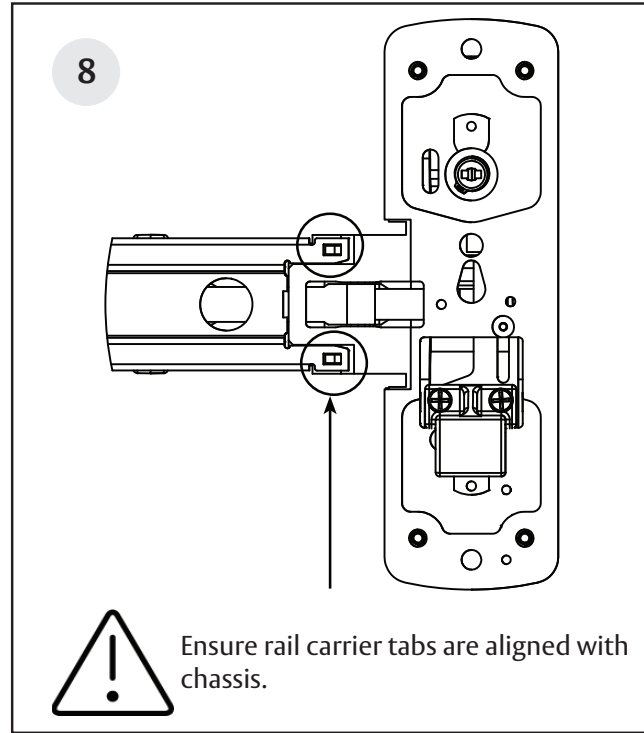
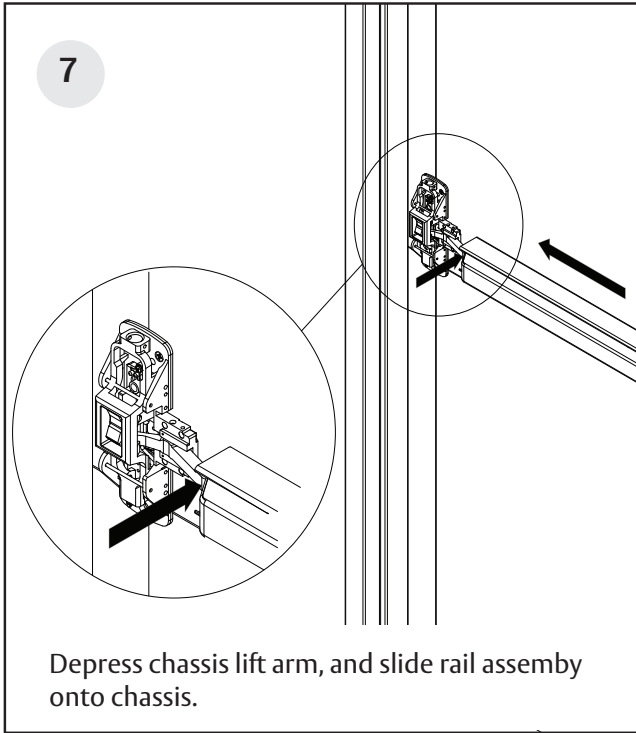
PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

Installation Instructions

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PE8700 Series (Standard, 12-, HC-, & HC4)

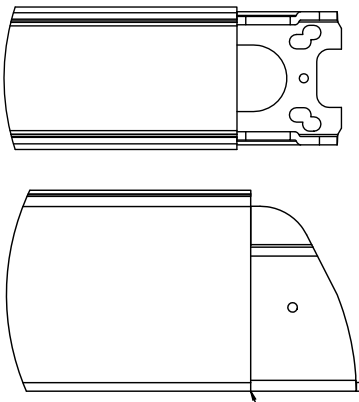
Surface Vertical Rod Exit Device

Installation Instructions

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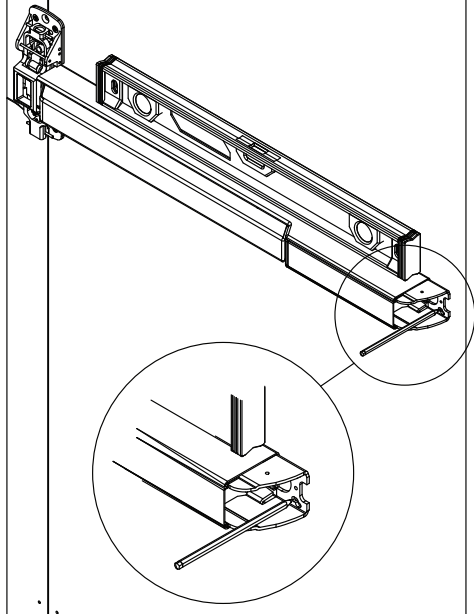
ASSA ABLOY

11



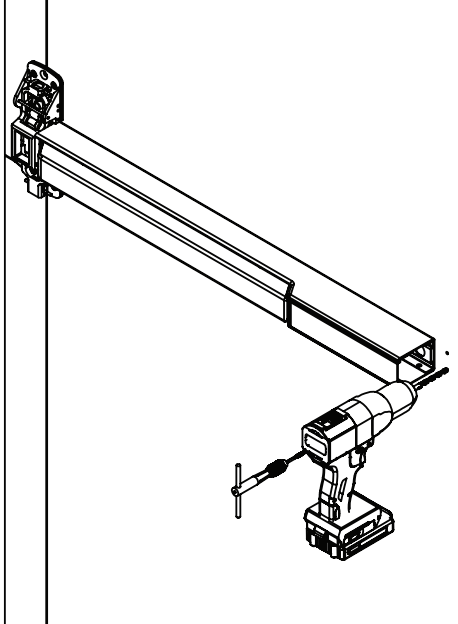
Ensure mounting rail bracket is against the rail without a gap.

12



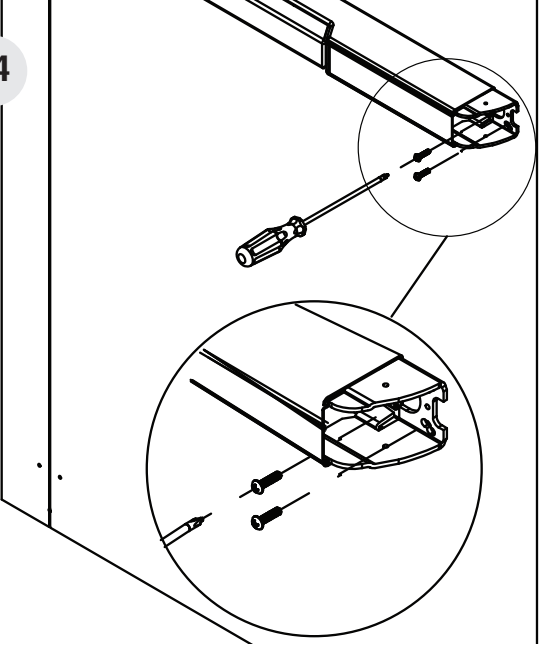
Level the rail and mark mounting holes, using the bracket as a guide.

13



Drill and tap end cap bracket holes #10-24 (2 Places).

14



Install end cap bracket using round head phillips #10-24 x 1" screws, supplied.

PE8700 Series (Standard, 12-, HC-, & HC4)

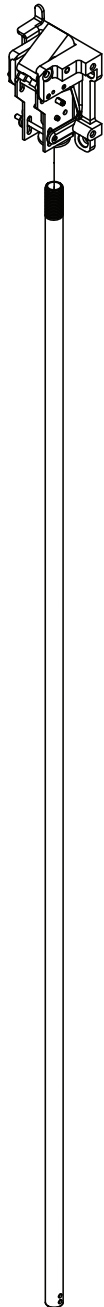
Surface Vertical Rod Exit Device

Installation Instructions

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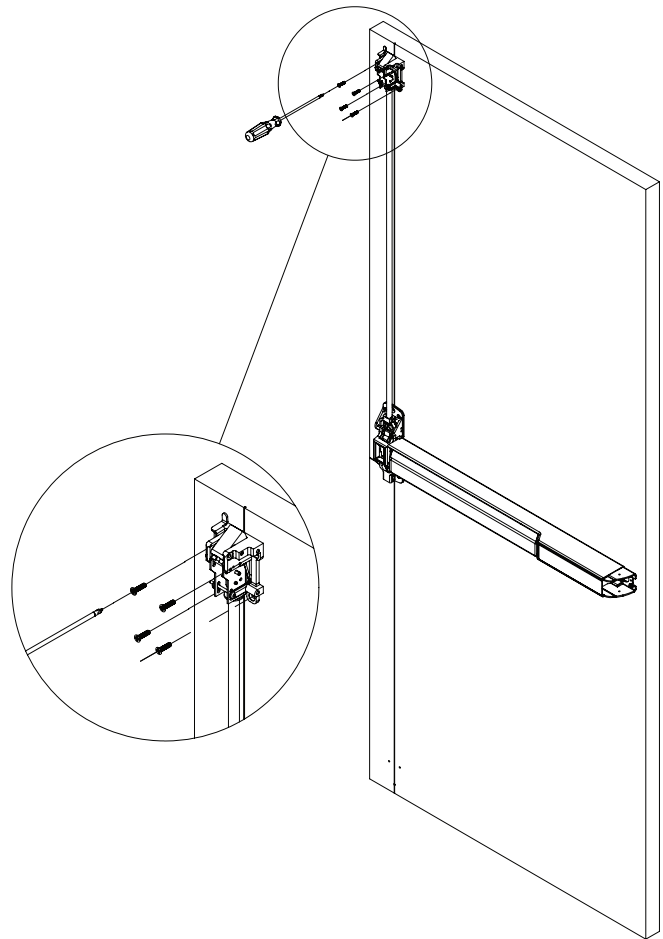
ASSA ABLOY

15



Screw top rod into top case until finger tight.

16



Slide top rod into chassis main slide. Do not pin in place. Attach top case.

Note: Top cases on fire rated wood doors must be thru-bolted.

PE8700 Series (Standard, 12-, HC-, & HC4)

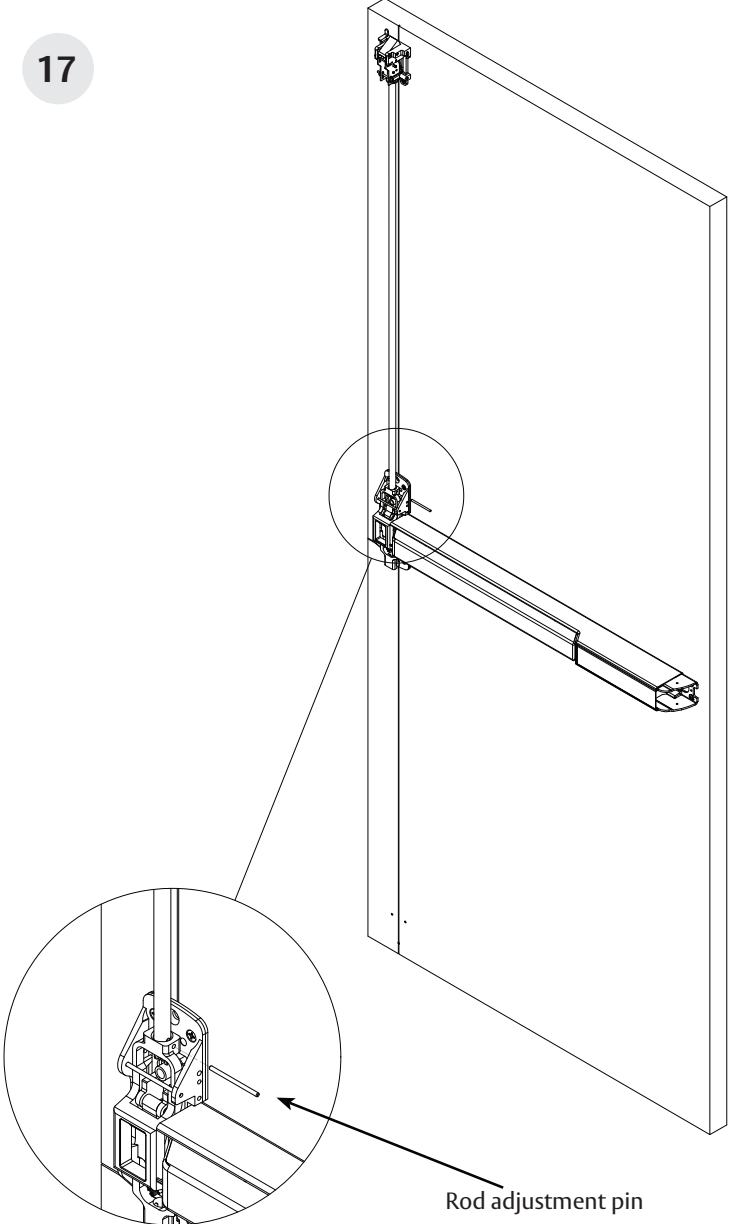
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Surface Vertical Rod Exit Device

ASSA ABLOY

Installation Instructions

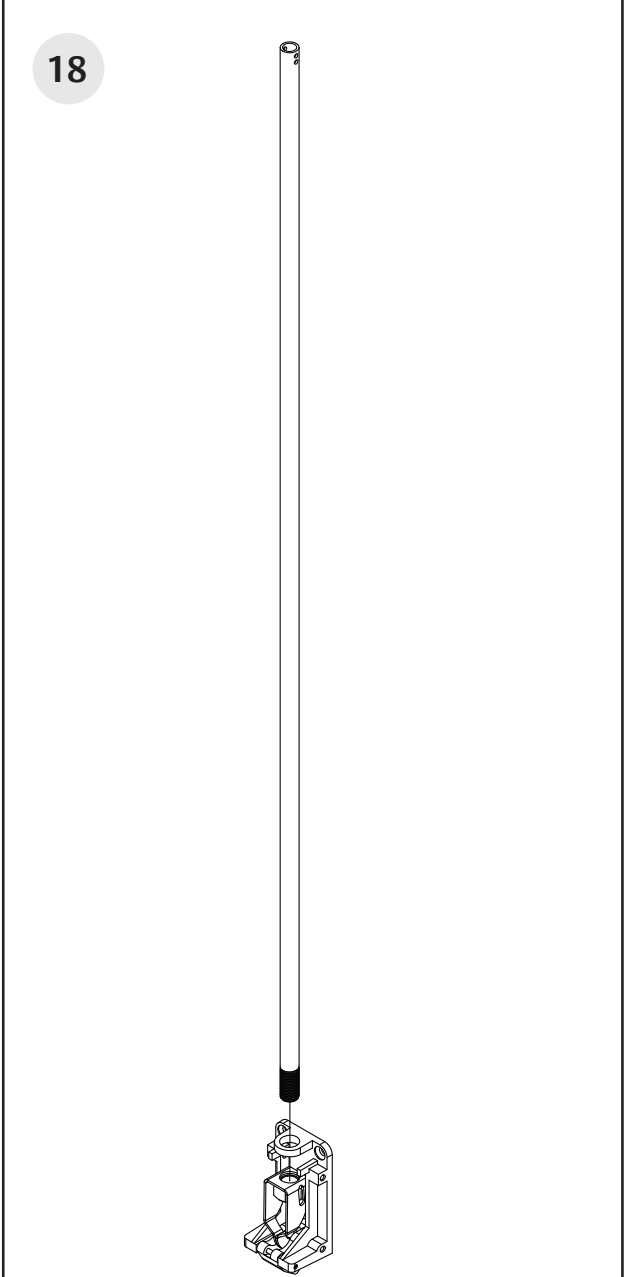
17



Rod adjustment pin

- Verify rail is not dogged (locked down).
- Unscrew top rod until the center hole is aligned with the hole in the main slide.
- Insert rod adjustment pin and align hole in rod with pin.

18



Screw bottom rod into bottom case until finger tight.

PE8700 Series (Standard, 12-, HC-, & HC4)

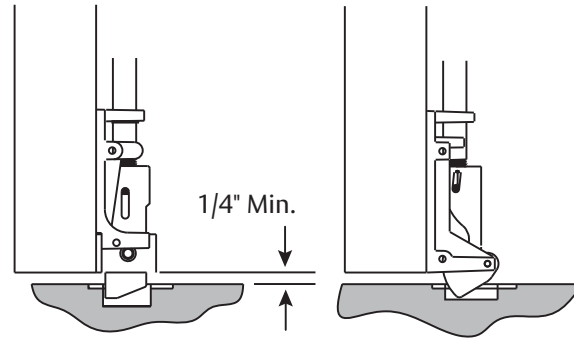
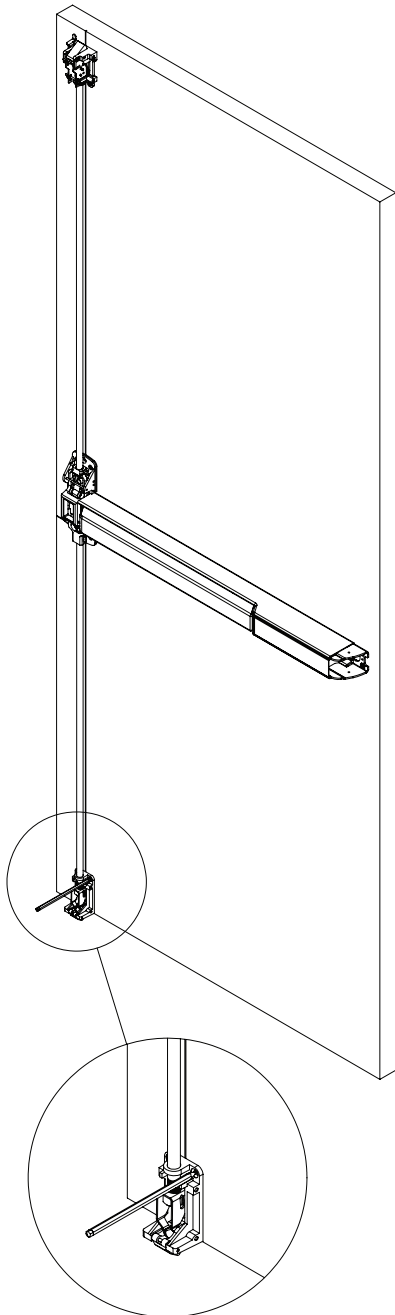
Surface Vertical Rod Exit Device

Installation Instructions

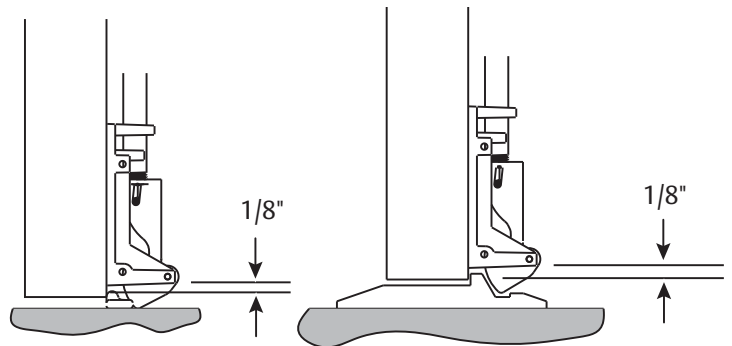
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MORTISE APPLIED STRIKES



SURFACE APPLIED STRIKES

LATCH TRACK THRESHOLD (BY OTHERS)

- Slide bottom rod into the chassis main slide.
- Mark bottom case mounting holes based on the bottom case placement shown in image above.

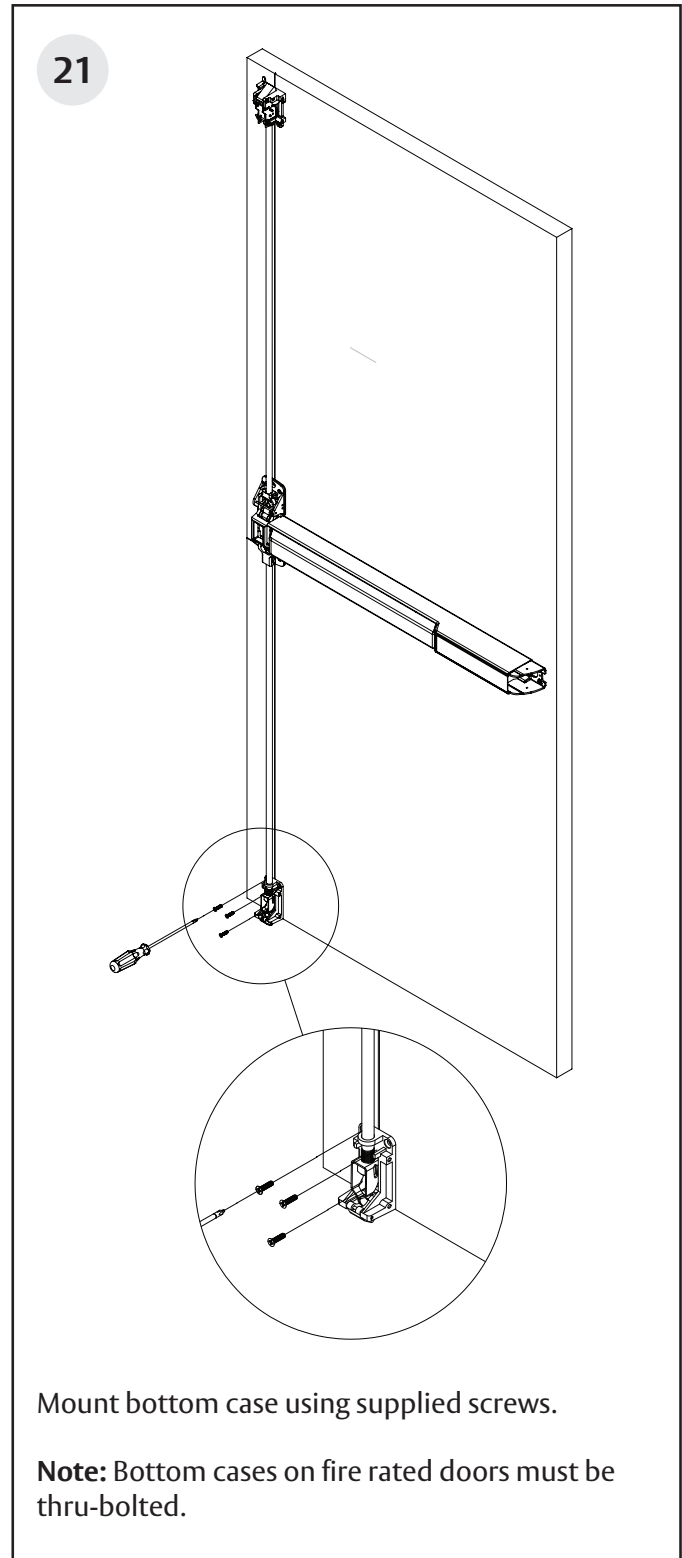
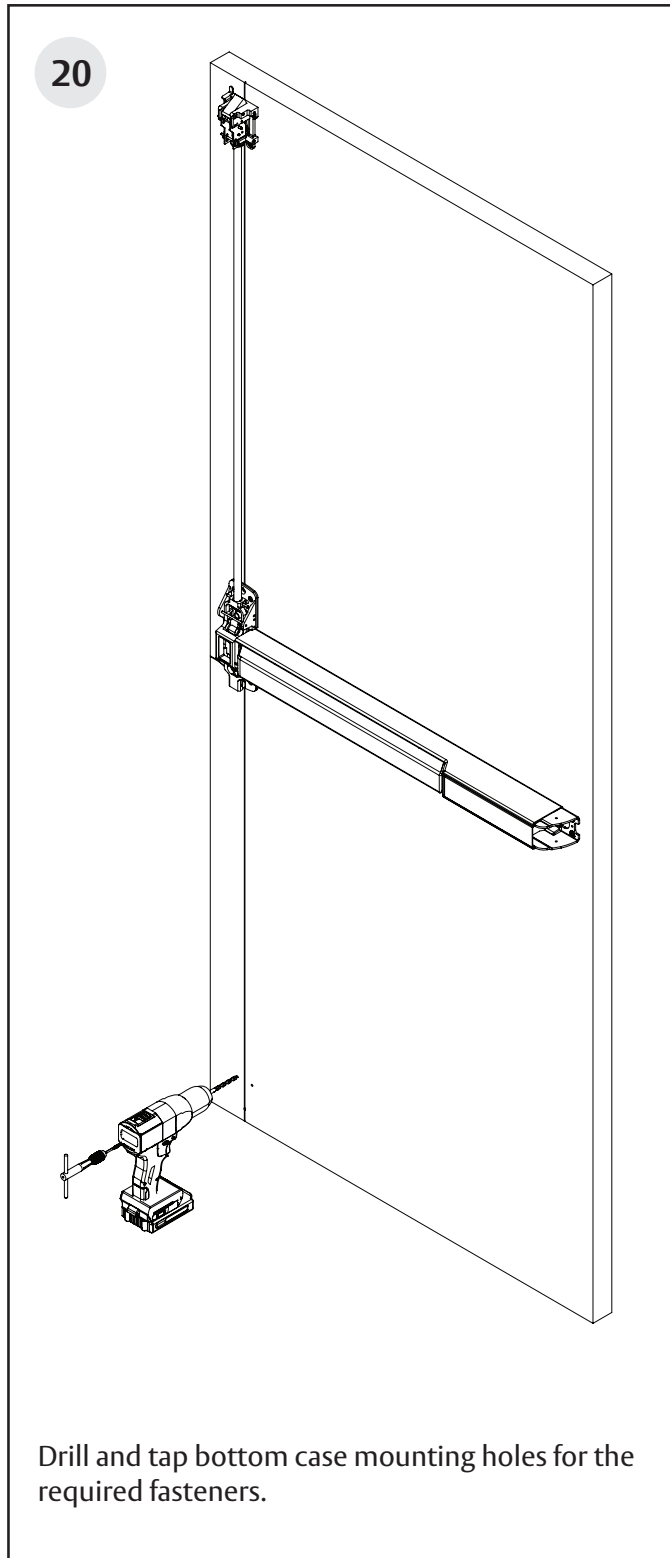
PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

Installation Instructions

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PE8700 Series (Standard, 12-, HC-, & HC4)

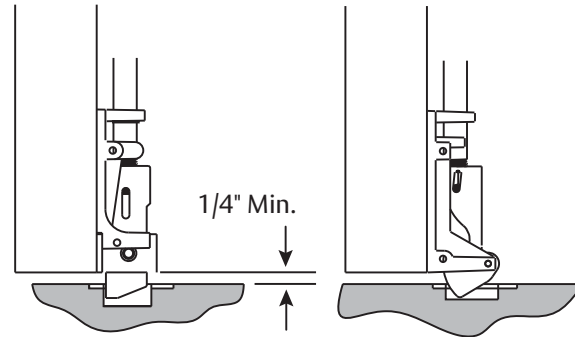
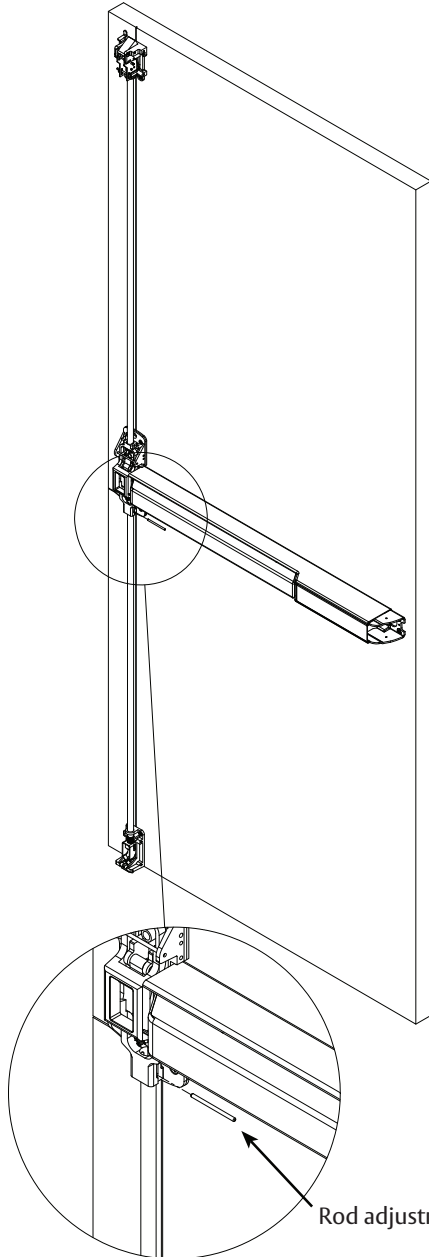
Surface Vertical Rod Exit Device

Installation Instructions

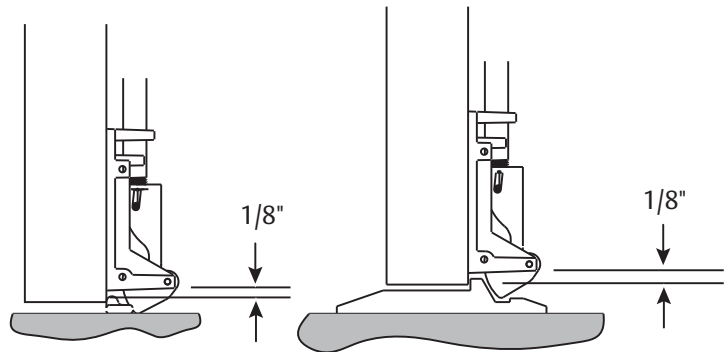
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22



MORTISE APPLIED STRIKES



SURFACE APPLIED STRIKES

LATCHTRACK THRESHOLD (BY OTHERS) STRIKES

Insert rod adjustment pin into middle hole. Raise or lower to achieve gap indicated for strike application. (See strike diagram above.)

PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

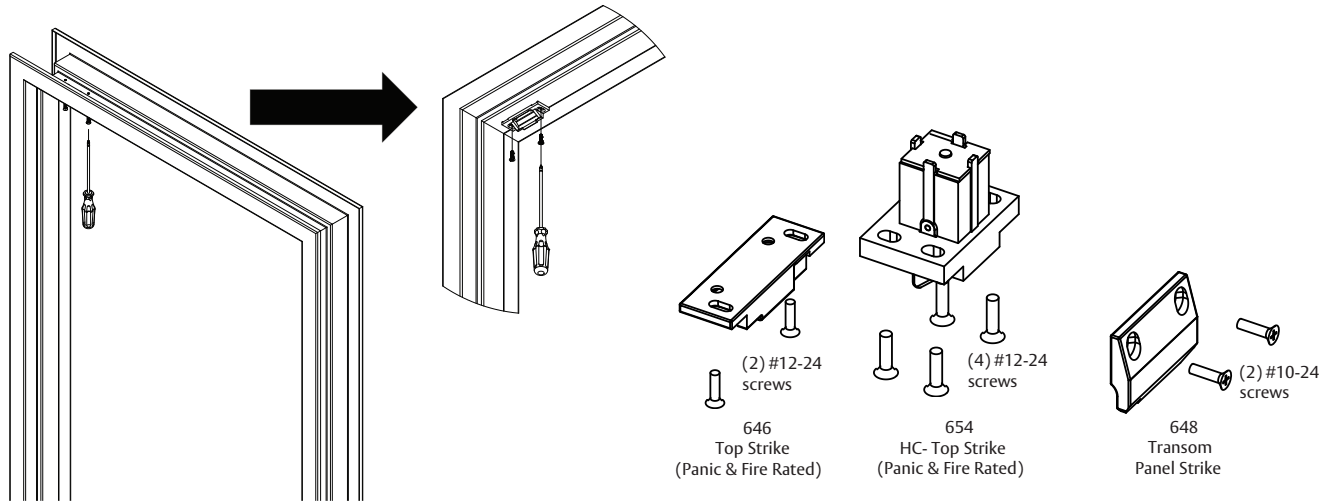
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Installation Instructions

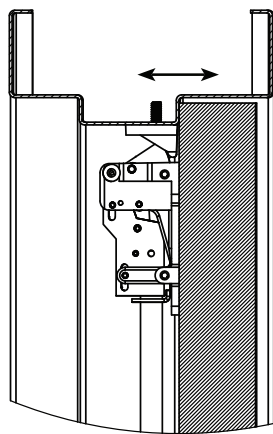
Attach the top strikes:

23



Mount top strike in position, and tighten screws.

24



- Adjust the top strike, front to back using slots in strike.
- To increase engagement, shim the top strike.

PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

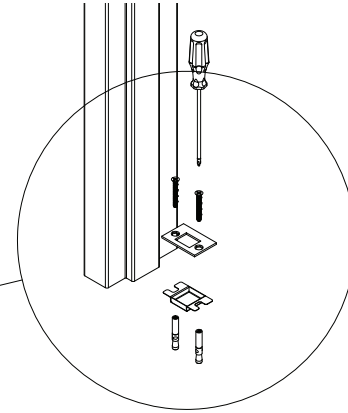
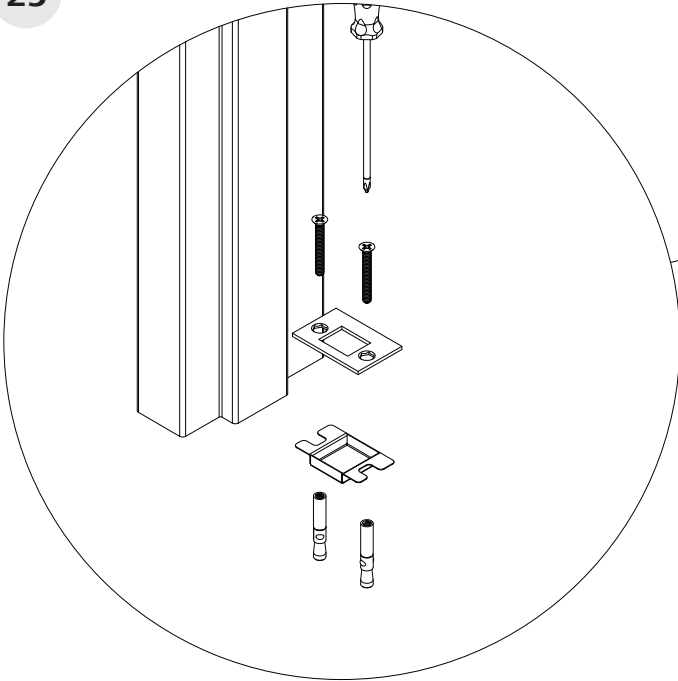
Installation Instructions

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Attach the bottom strikes:

25



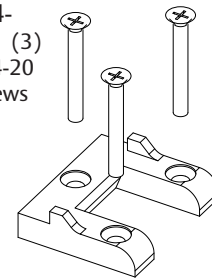
624 Bottom Strike
(Panic)

(2) #12-24 screws



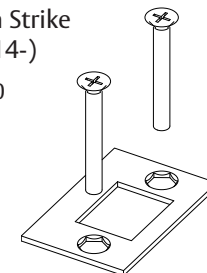
653 Bottom Strike
Alternate Strike for
HC-, 12-, 14-

(3)
#1/4-20
screws



655 Bottom Strike
(HC, 12- & 14-)

(2) 1/4-20
screws



Note: Use two (2) mortise nuts (when provided) in the position illustrated in the bottom case. Steel mortise nuts are twin knurled for identification.

For thresholds with integral strikes, skip to step 26.

For surface applied strikes 624 or 653:

WITH DOOR CLOSED:

- Transfer vertical centerline to floor or threshold and mark.
- Engage bottom strike with latchbolt and center on line marked.
- Mark mounting holes.
- Drill holes for required fasteners.
- Mount strike with fasteners provided.
- Tighten screws securely.

For mortised strikes: 636 or 655:

- Follow steps above.
- Mark mounting holes and outline of strike.

Installation Instructions

Adjust top and bottom rods:

26

Fine adjustment is made by turning the rod into the top and bottom case to shorten or out of the top and bottom case to lengthen.

Rough adjustment is made by changing hole used for the adjustment pin.

Top Rod Adjustments:

- Push on door as you push on the rail assembly.
- As soon as the door opens, release rail. The top bolt should be in the hold back position.
- If not, extend top bolt.

Note: The top bolt must go into hold back position prior to the door opening.

Bottom Rod Adjustments:

- Extend bottom bolt for maximum engagement with the bottom strike.
- When the top bolt is in, hold back, it also holds the bottom bolt in the retracted position.
- Always verify that when the bottom bolt is in the retracted position, the bolt clears the finished floor by at least 1/8" through the swing of the door.

Note: Both the top and bottom latch bolts must be adjusted for maximum engagement.

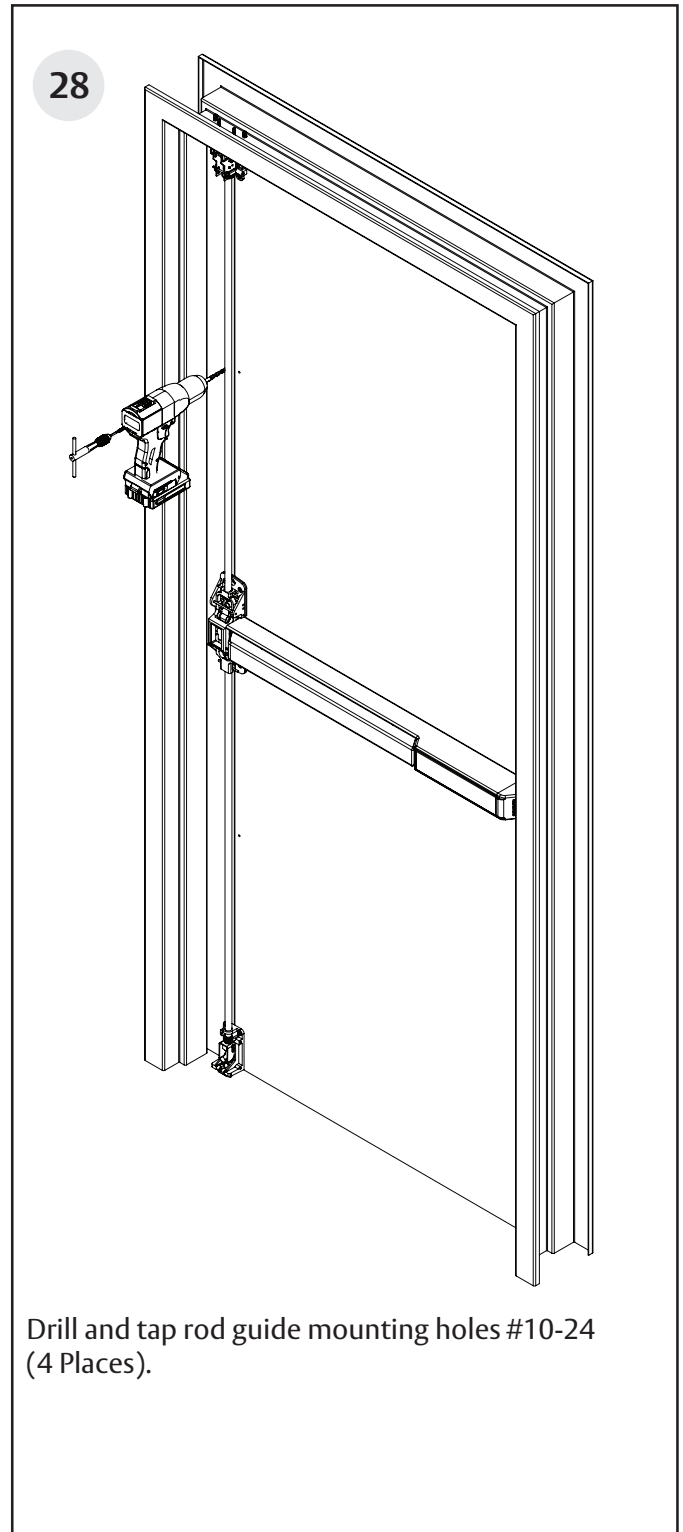
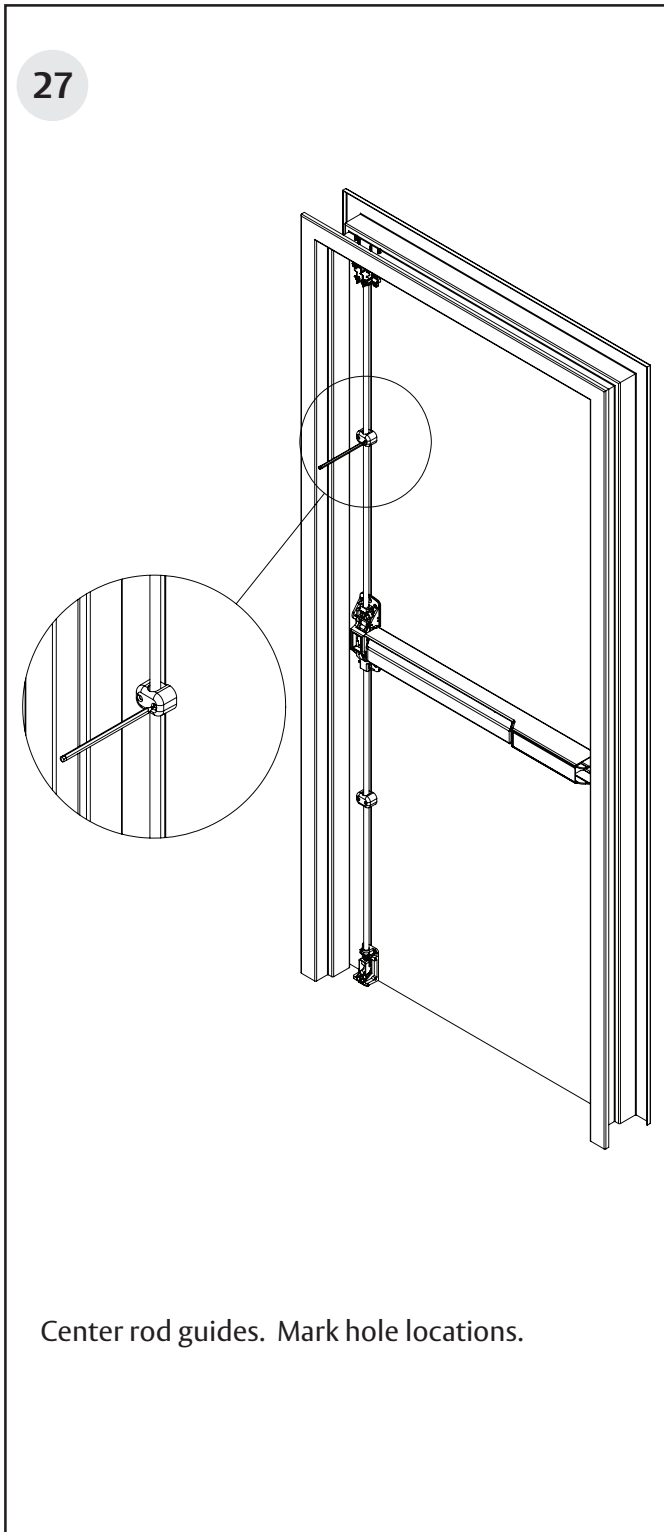
PE8700 Series (Standard, 12-, HC-, & HC4)

Surface Vertical Rod Exit Device

Installation Instructions

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PE8700 Series (Standard, 12-, HC-, & HC4)

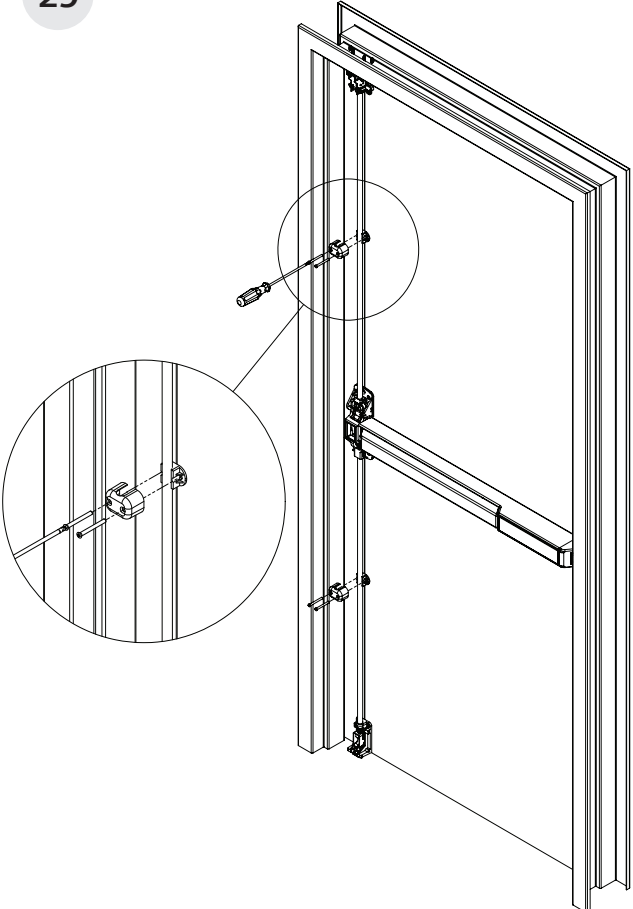
Surface Vertical Rod Exit Device

Installation Instructions

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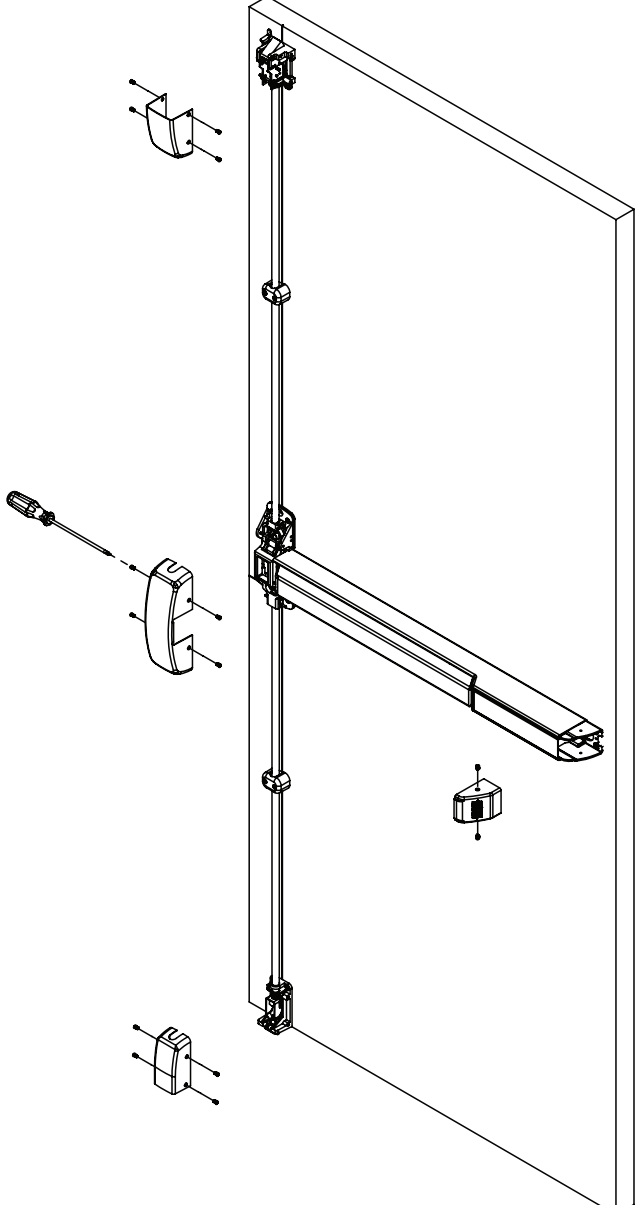
29



Install top and bottom rod guides. Rod must float freely in guide without rubbing.

Note: For doors over 96": Install two (2) top rod guides equally spaced between the top case and the chassis cover.

30



Install top, bottom and center chassis covers as shown. Install end cap as shown.

