



47986706

7827

VON DUPRIN®

Surface Vertical Rod Exit Device

Installation Instructions

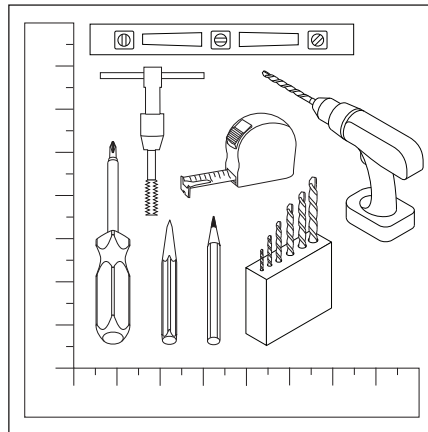
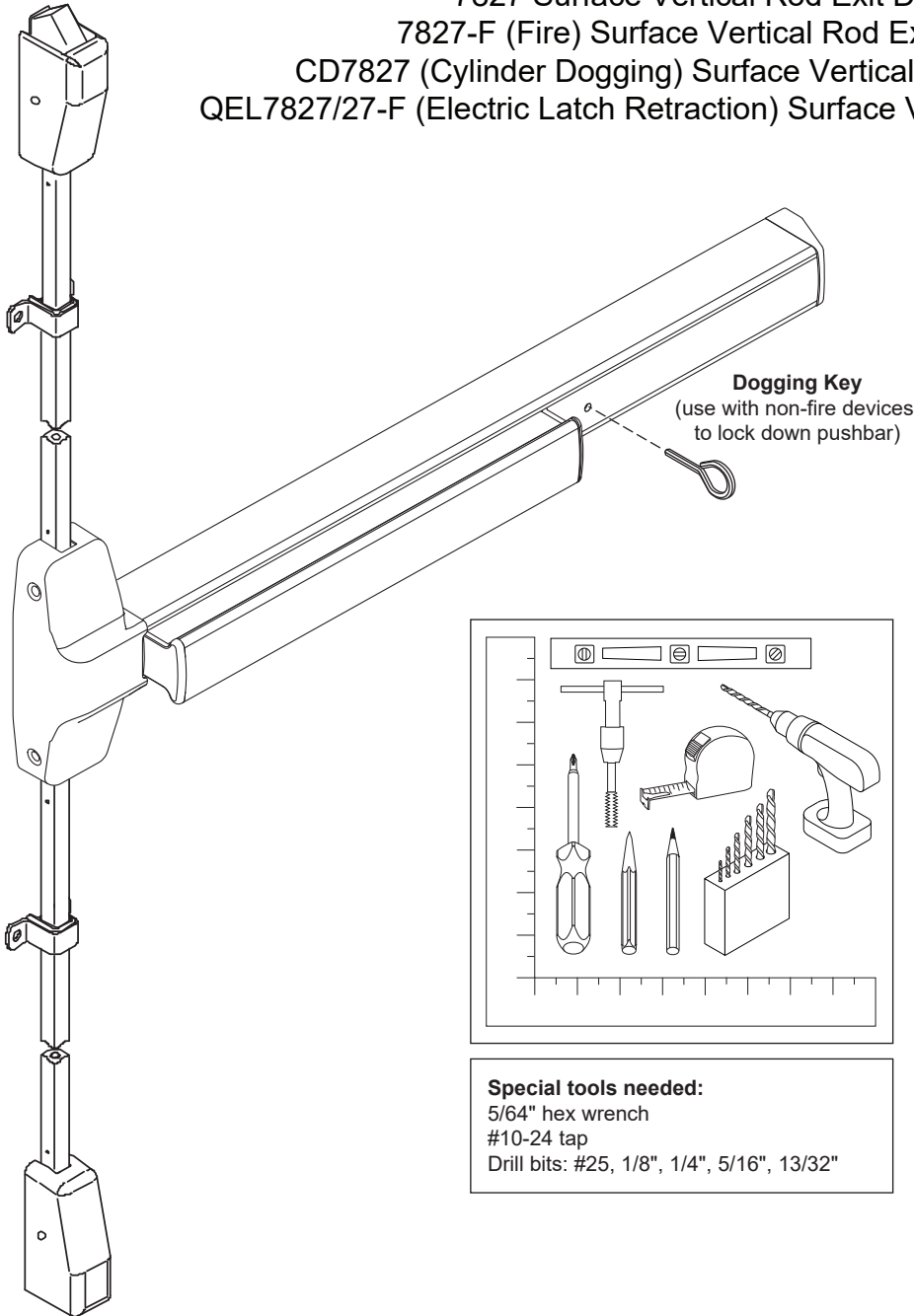
Devices covered by these instructions:

7827 Surface Vertical Rod Exit Device

7827-F (Fire) Surface Vertical Rod Exit Device

CD7827 (Cylinder Dogging) Surface Vertical Rod Exit Device

QEL7827/27-F (Electric Latch Retraction) Surface Vertical Rod Exit Device



Special tools needed:

- 5/64" hex wrench
- #10-24 tap
- Drill bits: #25, 1/8", 1/4", 5/16", 13/32"

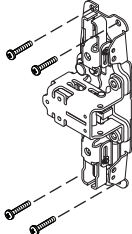
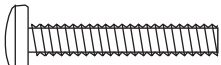
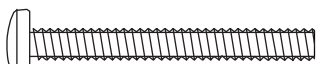
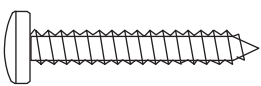
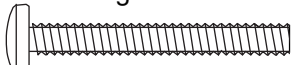
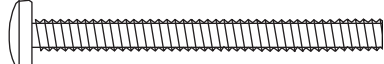
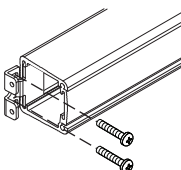
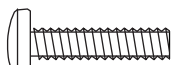

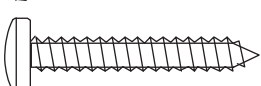


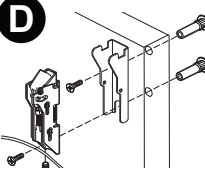
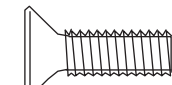
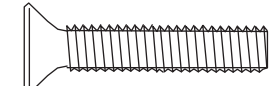
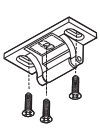
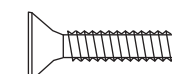
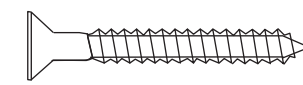
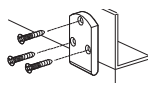
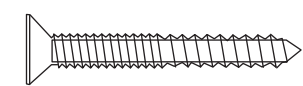

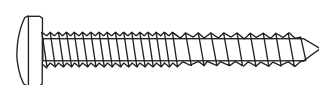



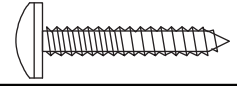

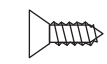
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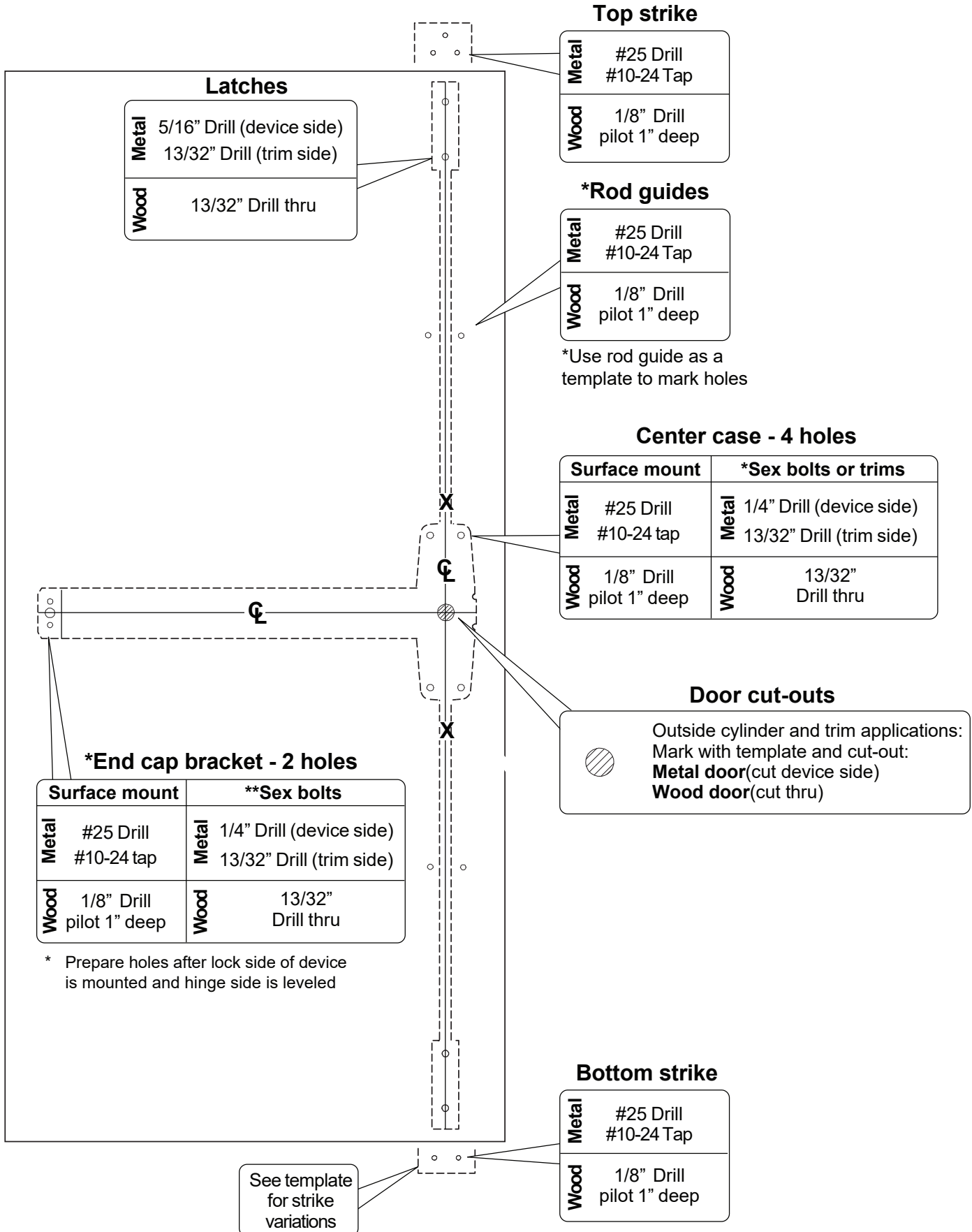
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SCREW CHART

<p>A</p> 	 #10-24 X 1" _____  #10-24 X 1-1/2" _____  #10 x 1-1/4" Wood screw _____ <p>-Packaged with trim -</p>  #10-24 X 1-3/8" _____  #10-24 X 1-7/8" _____	<p>Surface mount or Sex bolts (1-3/4" door)</p> <p>Sex bolts (2-1/4" door)</p> <p>Surface mount (wood)</p> <hr/> <p>785 trims (1-3/4" door)</p> <p>785 trims (2-1/4" door)</p>
<p>B</p> 	 #10-24 X 3/4" _____  #10-24 X 1-1/8" _____  #10 x 1-1/4" Wood screw _____	<p>Surface mount or Sex bolts (1-3/4" door)</p> <p>Sex bolts 2-1/4" door</p> <p>Surface mount (wood)</p>
<p>C</p> 	 #10-16 x 3/8" Thread cutting _____	<p>End cap</p>
<p>D</p> 	 1/4-20 X 3/4" _____  1/4-20 X 1-1/4" _____	<p>1-3/4" door</p> <p>2-1/4" door</p>
<p>E</p> 	 #10-24 X 3/4" _____  #10 x 1-1/2" Wood screw _____	<p>Metal frame</p> <p>Wood frame</p>
<p>F</p> 	 #10-12 x 10-24 x 1-1/4" Combination _____	<p>Metal or wood frame</p>
<p>G</p> 	 #10-12 x 10-24 x 1-1/4" Combination _____	<p>Variable floor surfaces</p>
<p>H</p> 	 #8-32 X 1/4" _____	<p>Latch covers</p>
<p>I</p> 	 #10-12 x 10-24 x 1" Combination _____	<p>Metal or wood door</p>
<p>J</p> 	 #8-18 x 3/8" Thread cutting _____	<p>Center case cover</p>

PREPARATION CHART

Go to instructions on next page before using Preparation Chart



Latches

Metal	5/16" Drill (device side) 13/32" Drill (trim side)
Wood	13/32" Drill thru

Top strike

Metal	#25 Drill #10-24 Tap
Wood	1/8" Drill pilot 1" deep

***Rod guides**

Metal	#25 Drill #10-24 Tap
Wood	1/8" Drill pilot 1" deep

*Use rod guide as a template to mark holes

Center case - 4 holes

Surface mount		*Sex bolts or trims	
Metal	#25 Drill #10-24 tap	Metal	1/4" Drill (device side) 13/32" Drill (trim side)
Wood	1/8" Drill pilot 1" deep	Wood	13/32" Drill thru

***End cap bracket - 2 holes**

Surface mount		**Sex bolts	
Metal	#25 Drill #10-24 tap	Metal	1/4" Drill (device side) 13/32" Drill (trim side)
Wood	1/8" Drill pilot 1" deep	Wood	13/32" Drill thru

Door cut-outs

Outside cylinder and trim applications:
Mark with template and cut-out:
Metal door(cut device side)
Wood door(cut thru)

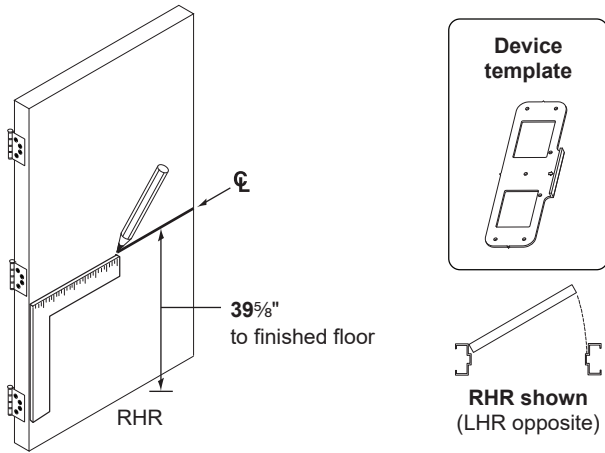
* Prepare holes after lock side of device is mounted and hinge side is leveled

Bottom strike

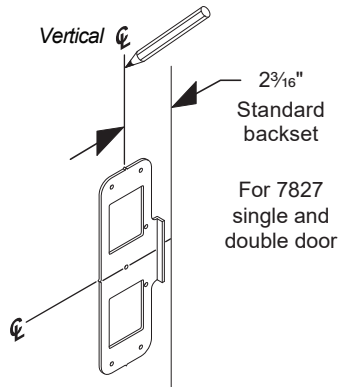
Metal	#25 Drill #10-24 Tap
Wood	1/8" Drill pilot 1" deep

See template for strike variations

1 Draw Horizontal Center Line (☉) and Assemble Device Template



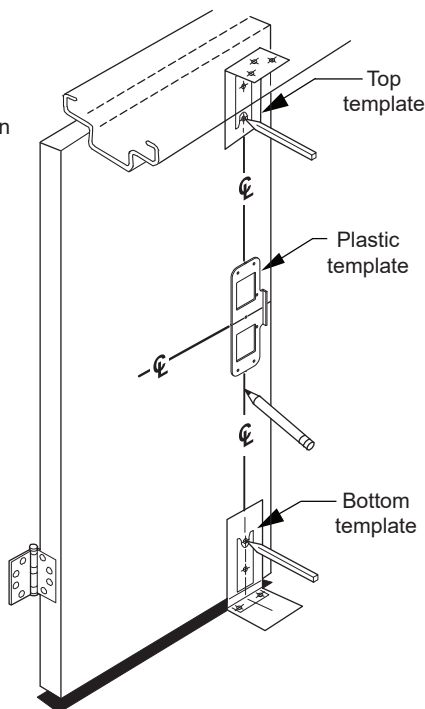
2 Position Template as Shown and Mark Vertical ☉



3 Align Top and Bottom Templates Along ☉ and Prepare Door

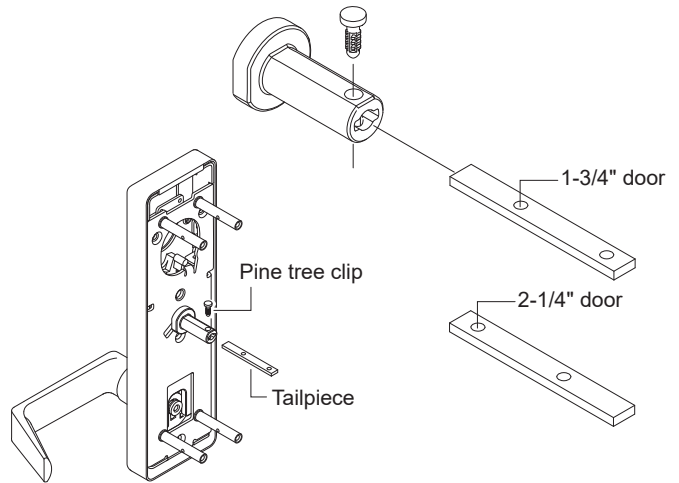
See "Preparation Chart" on page 3 for drill, tap, and cut-out information

See trim instructions for pull side door preparation. Line X-X in trim instructions is same as vertical device ☉.



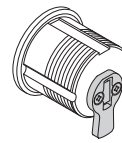
4 Adjust Tailpiece if Needed

Make sure tailpiece is installed at correct length for 1-3/4" thick or 2-1/4" thick door. If necessary, remove pine tree clip, rotate tailpiece, and reinstall pine tree clip.



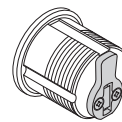
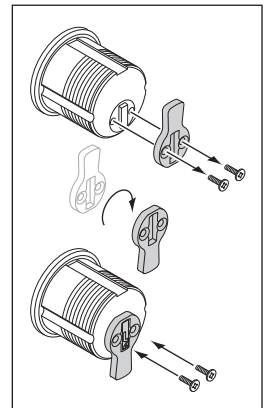
5 If Using a Cylinder, Remove Cam and Rotate 180°

Cam must be in position shown **with key removed**. If necessary, remove cam screws, place cam in correct position, and reinstall cam screws.



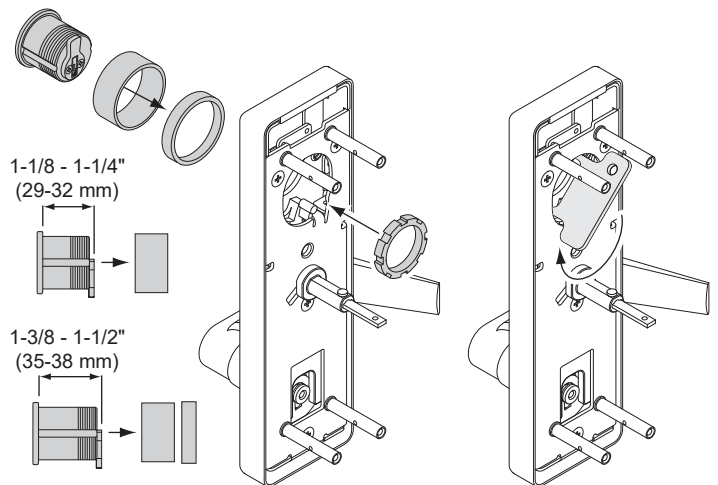
Standard Orientation with key removed.

Rotate cam if necessary as shown here.



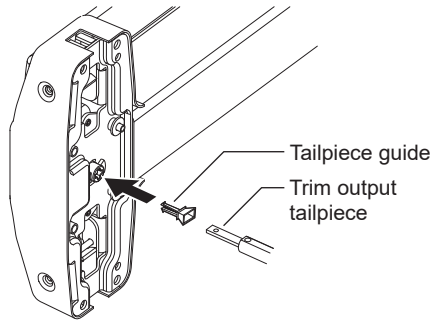
For NL and E-trims, use this orientation.

6 If Necessary, Install Cylinder



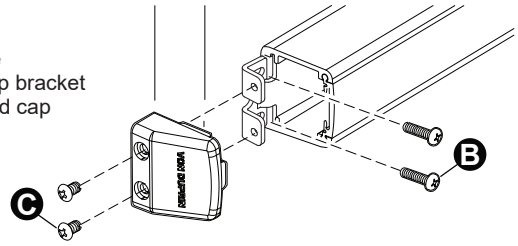
7 If Using a Cylinder with a Tailpiece, Prepare Device and Cylinder

a. Install tailpiece guide.

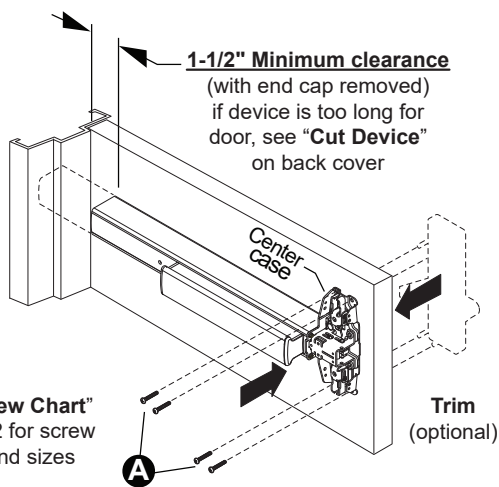


10 Install End Cap Bracket and End Cap

Secure end cap bracket and end cap

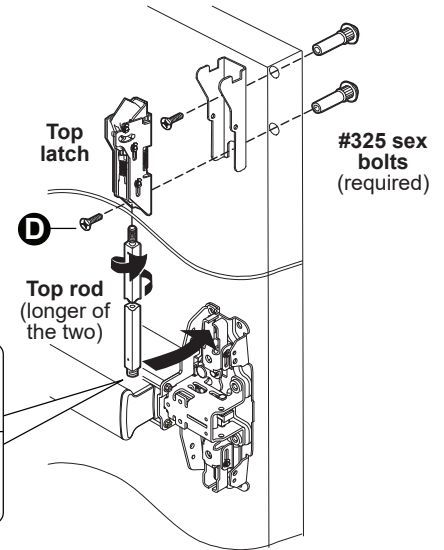


8 Install Trim (if using) and Secure Device Center Case to Door



See "Screw Chart" on page 2 for screw types and sizes

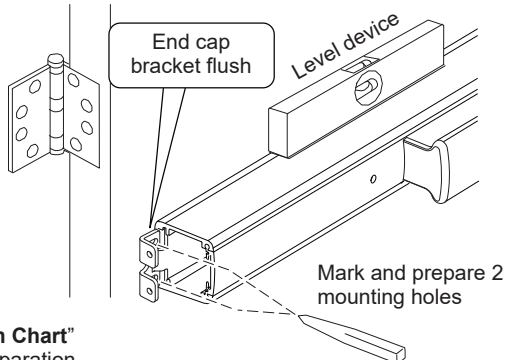
11 Install Top Latch and Rod



If top rod is too long, see "Cut Top Rod" on page 7

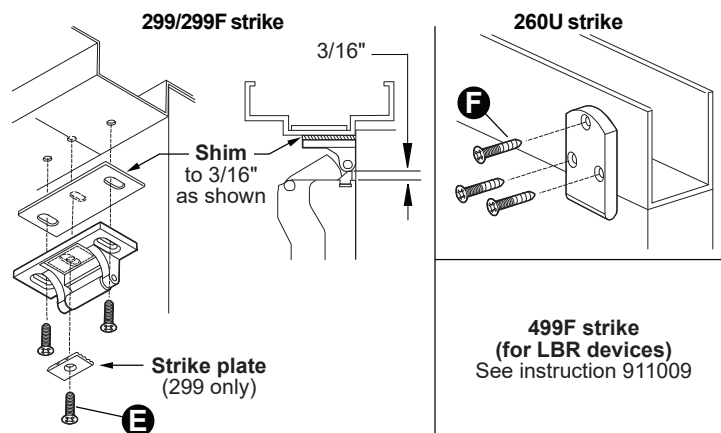
If top rod is too short, see "Install Rod Extension" on page 7

9 Mark and Prepare 2 Holes for End Cap Bracket

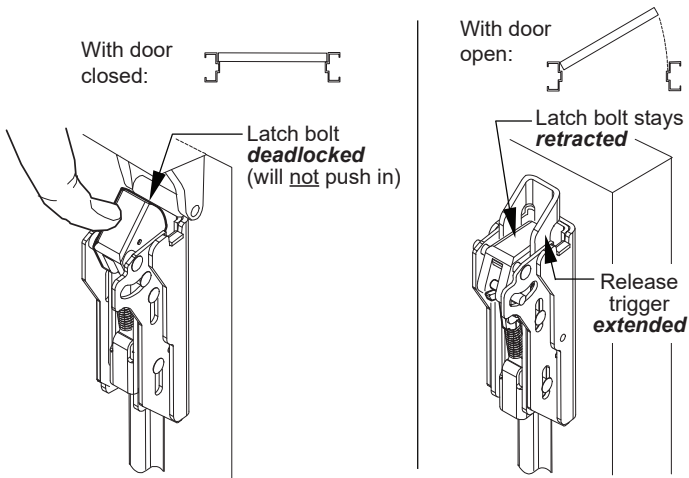


See "Preparation Chart" on page 3 for preparation information

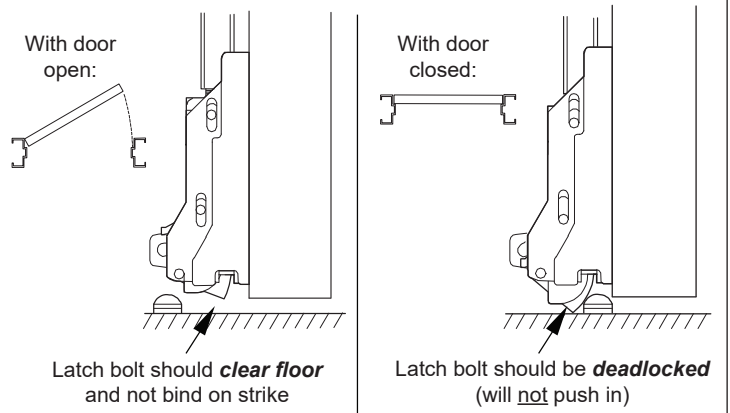
12 Install Top Strike



13 Adjust Top Rod (Screw Rod Into or Out of Latch) Until Adjusted as Shown

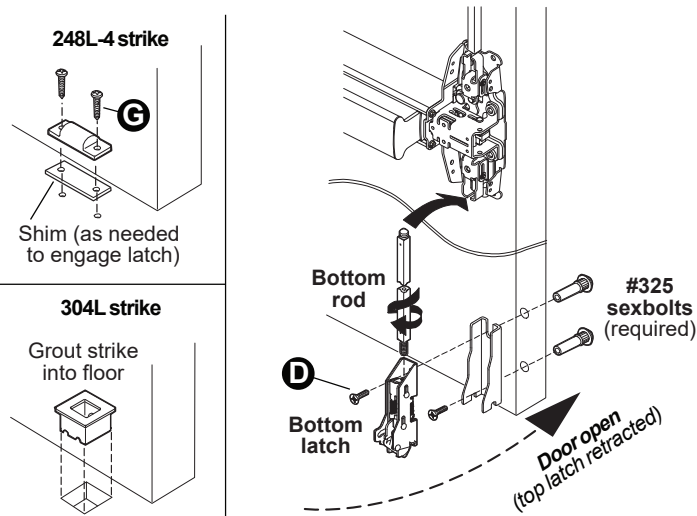


15 Adjust Bottom Rod with Door Open (Top Latch Retracted)

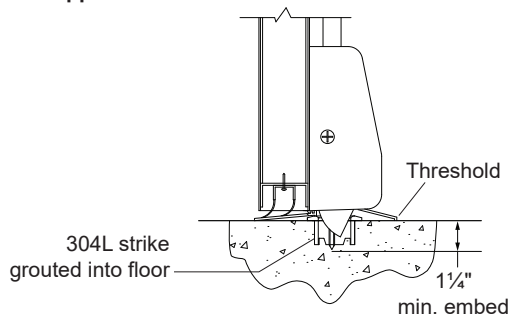


Open and close door a few times and check for deadlatching when door is closed. Readjust rods if needed.

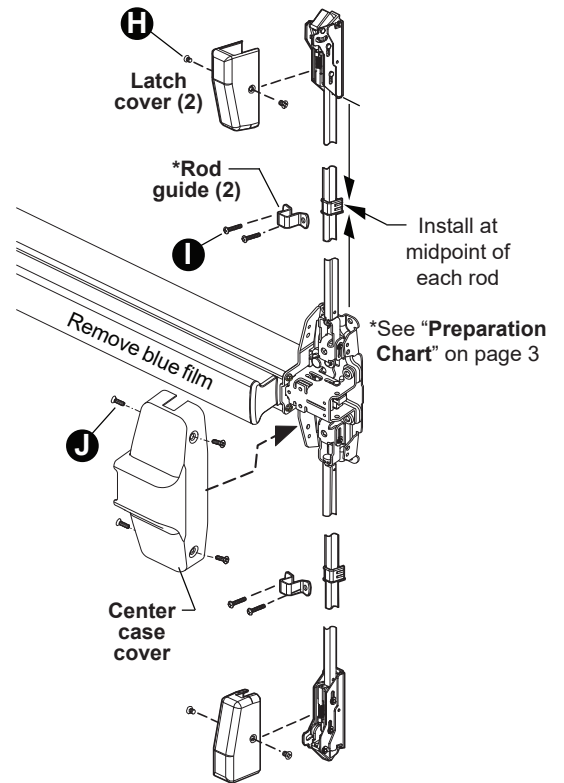
14 Install Bottom Strike, Latch, and Rod



Hurricane applications use threshold with 304L bottom strike



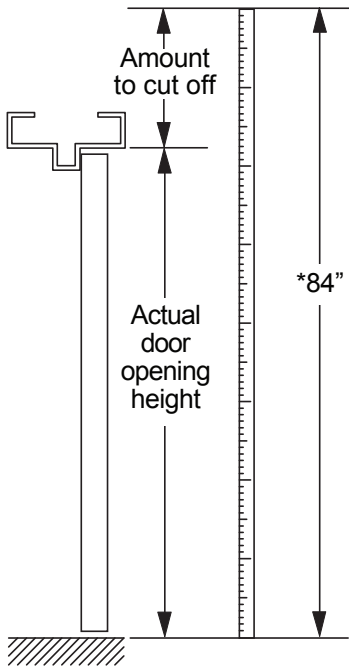
16 Install Rod Guides and Covers



CUT TOP ROD

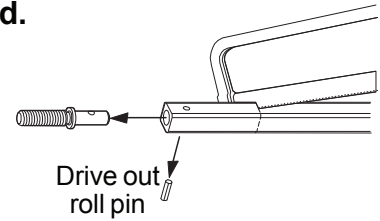
1. Measure amount to cut off rod as shown below.

Note: Rod cutting is required for doors shorter than 7'.

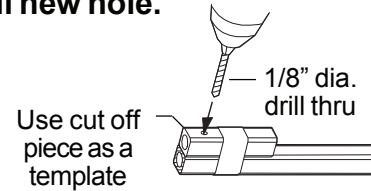


*Rods are factory sized for 7' (84") door. Measure actual door opening height and subtract that number from 84" to get amount to cut off top rod.

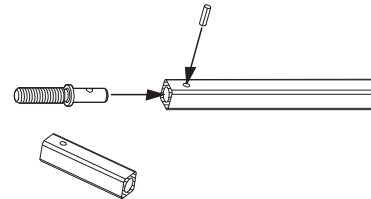
2. Cut rod.



3. Drill new hole.

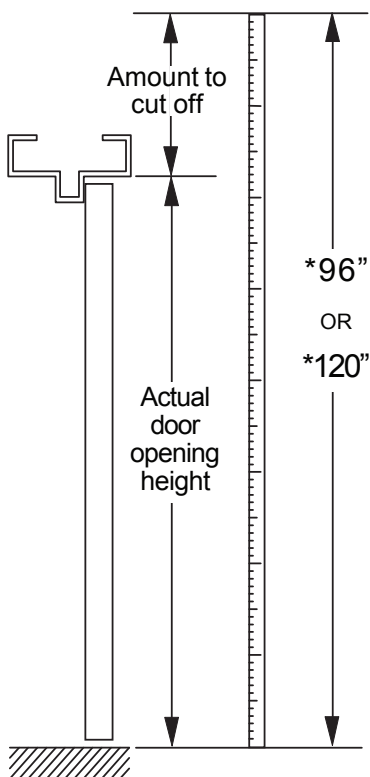


4. Reinstall rod end and roll pin.



INSTALL ROD EXTENSION

1. Measure door opening to determine amount to cut off rod extension.

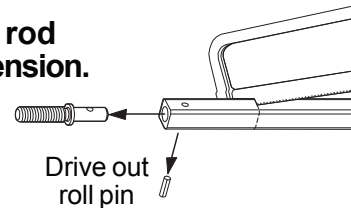


*Standard door heights:

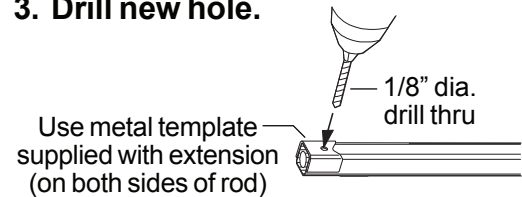
With no extension	7' (84")
With 1' extension	8' (96")
With 3' extension	10' (120")

*Rods are factory sized for door heights shown above. Measure actual door opening height and subtract that number from 96" (for 1' extension) or 120" (for 3' extension) to get amount to cut off extension.

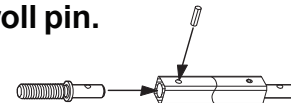
2. Cut rod extension.



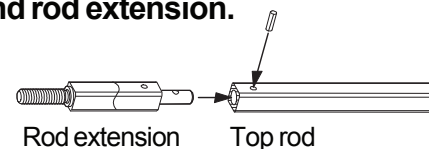
3. Drill new hole.



4. Reinstall rod end and roll pin.



5. Connect top rod and rod extension.



OPTIONAL EQUIPMENT - CONTINUED

CD (CYLINDER DOGGING)

1. Remove mortise cylinder cam and reinstall in reverse (Figure 1).
2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).
3. Remove key to slide cover plate in position in the mechanism case.

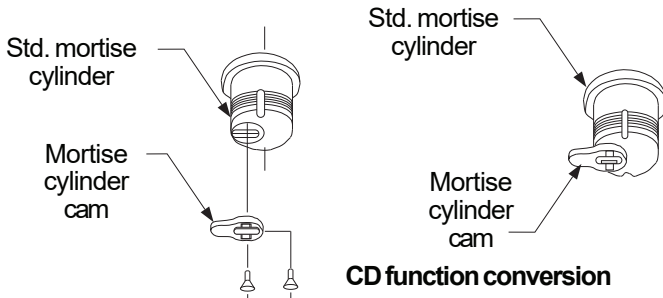


Figure 1

Dogging procedure

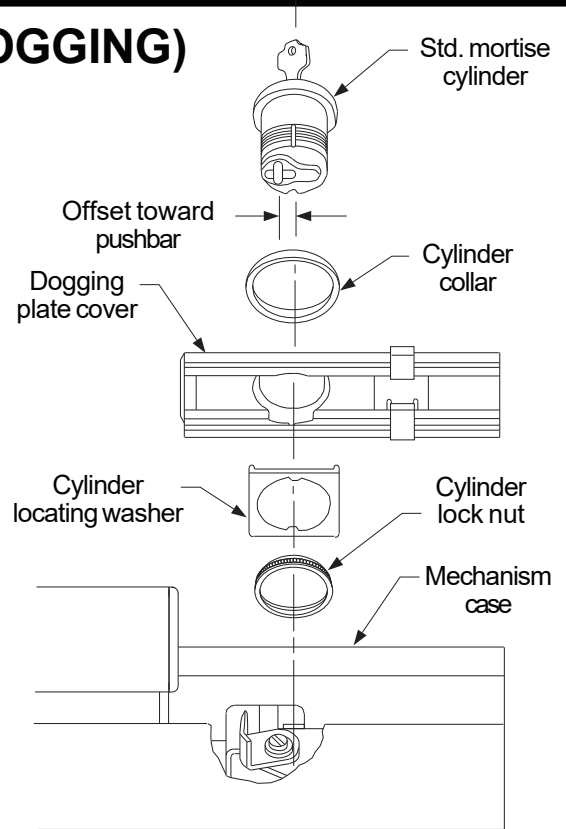
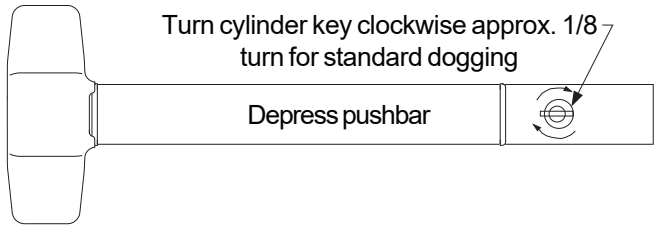
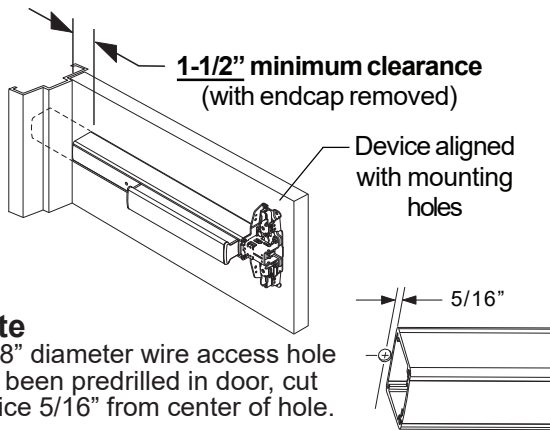


Figure 2

CUT DEVICE

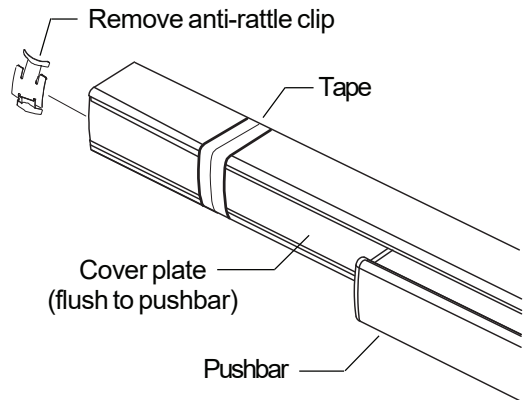
1 Measure amount to cut off device.



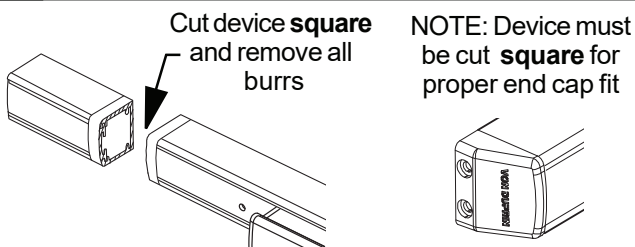
Note

If 5/8" diameter wire access hole has been predrilled in door, cut device 5/16" from center of hole.

2 Tape and mark area being cut.



3 Cut device square.



4 Slide anti-rattle clip into device.

