



911375-00

98/9927

VON DUPRIN®

Surface Vertical Rod Exit Device

Installation Instructions

Devices covered by these instructions:

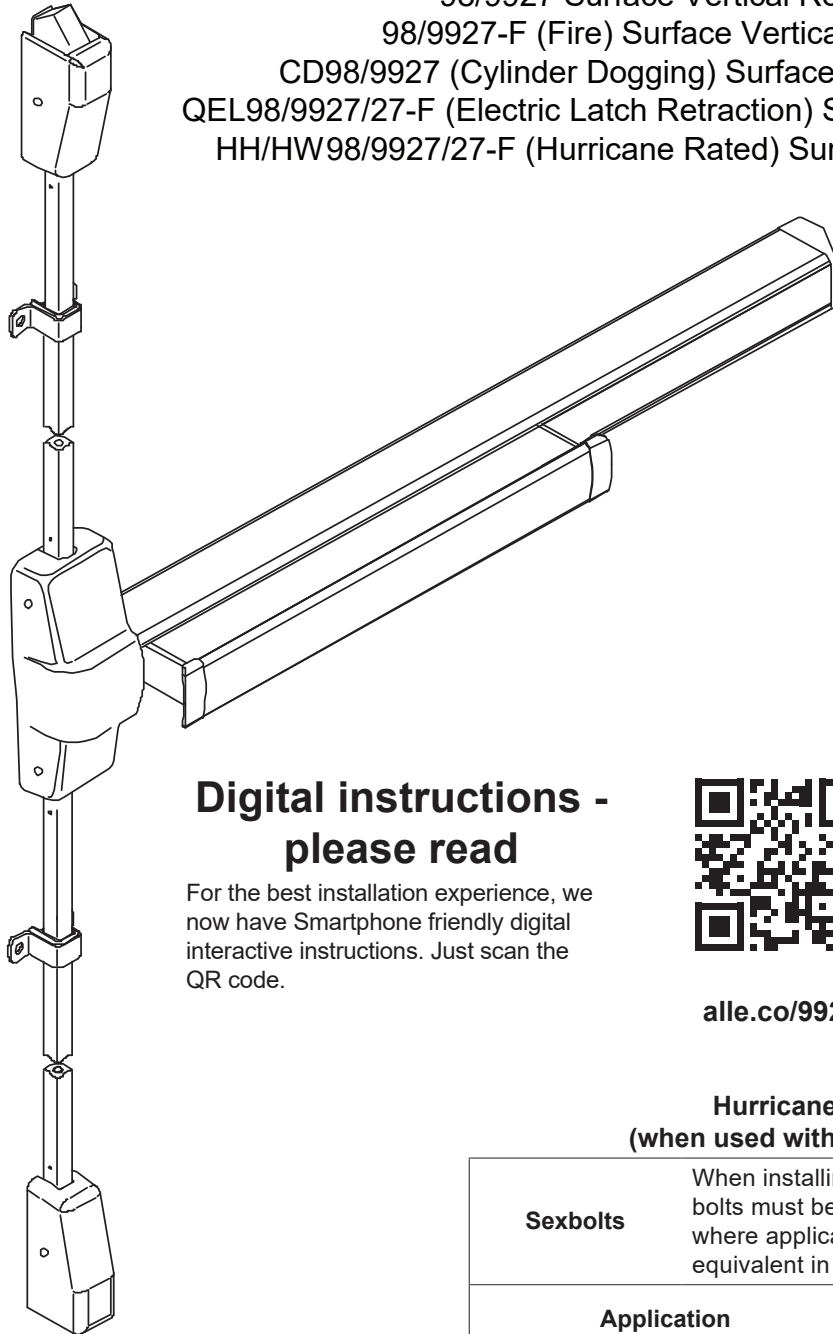
98/9927 Surface Vertical Rod Exit Device

98/9927-F (Fire) Surface Vertical Rod Exit Device

CD98/9927 (Cylinder Dogging) Surface Vertical Rod Exit Device

QEL98/9927/27-F (Electric Latch Retraction) Surface Vertical Rod Exit Device

HH/HW98/9927/27-F (Hurricane Rated) Surface Vertical Rod Exit Device



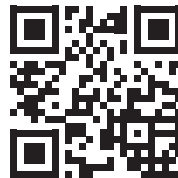
Customer Service	
1-877-671-7011	www.allegion.com/us

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

Index:
• Screw chart 2
• Preparation chart 3
• Device installation 4-6
• Cut top rod 7
• Install rod extension 7
• Optional equipment 8
• Cut device 8

Digital instructions - please read

For the best installation experience, we now have Smartphone friendly digital interactive instructions. Just scan the QR code.



alle.co/9927

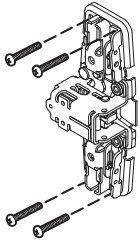
Hurricane rated exit device requirements (when used with approved Allegion door applications)


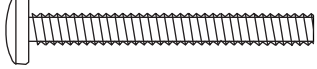
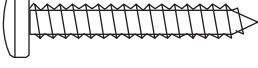

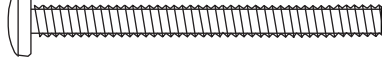
Sexbolts	When installing a Wind and Impact-rated hurricane device (HH), sex bolts must be used. Sex bolts are noted throughout the instructions where applicable. If through-bolting trims are used, these trims are equivalent in function and are used in place of sex bolts.			
	Application	Single door standard strike	Mullion	Double door standard strike
HH (Wind and Impact rated)	98/9927	Top: 299F Bottom: 304L	–	Top: 299F Bottom: 304L
	98/9927-F	–	–	–
HW (Wind Only)	98/9927	Top: 299 Bottom: 304L	–	Top: 299 Bottom: 304L
	98/9927-F	–	–	Top: 299F Bottom: 304L



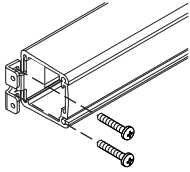
SCREW CHART

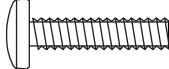
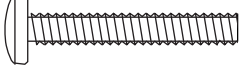
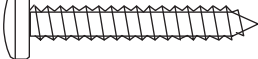
A



	#10-24 X 1"	Surface mount or Sex bolts (1-3/4" door)
	#10-24 X 1-1/2"	Sex bolts (2-1/4" door)
	#10 x 1-1/4" Wood screw	Surface mount (wood)
- Packaged with trim -		
	#10-24 X 1-3/8"	990 trims (1-3/4" door)
	#10-24 X 1-7/8"	990 trims (2-1/4" door)


B



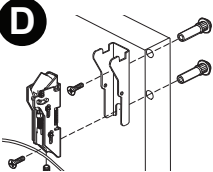
	#10-24 X 3/4"	Surface mount or Sex bolts (1-3/4" door)
	#10-24 X 1-1/8"	Sex bolts 2-1/4" door
	#10 x 1-1/4" Wood screw	Surface mount (wood)

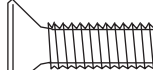

C



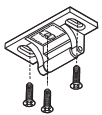
	#10-16 x 3/8" Thread cutting	End cap
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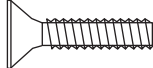
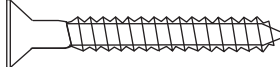
D



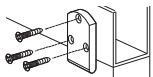
	1/4-20 X 3/4"	1-3/4" door
	1/4-20 X 1-1/4"	2-1/4" door

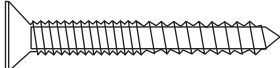
E



	#10-24 X 3/4"	Metal frame
	#10 x 1-1/2" Wood screw	Wood frame

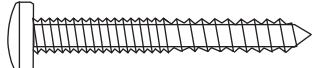
F



	#10-12 x 10-24 x 1-1/4" Combination	Metal or wood frame
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G



	#10-12 x 10-24 x 1-1/4" Combination	Variable floor surfaces
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H



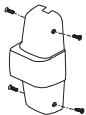
	#8-32 X 1/4"	Latch covers
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I



	#10-12 x 10-24 x 1" Combination	Metal or wood door
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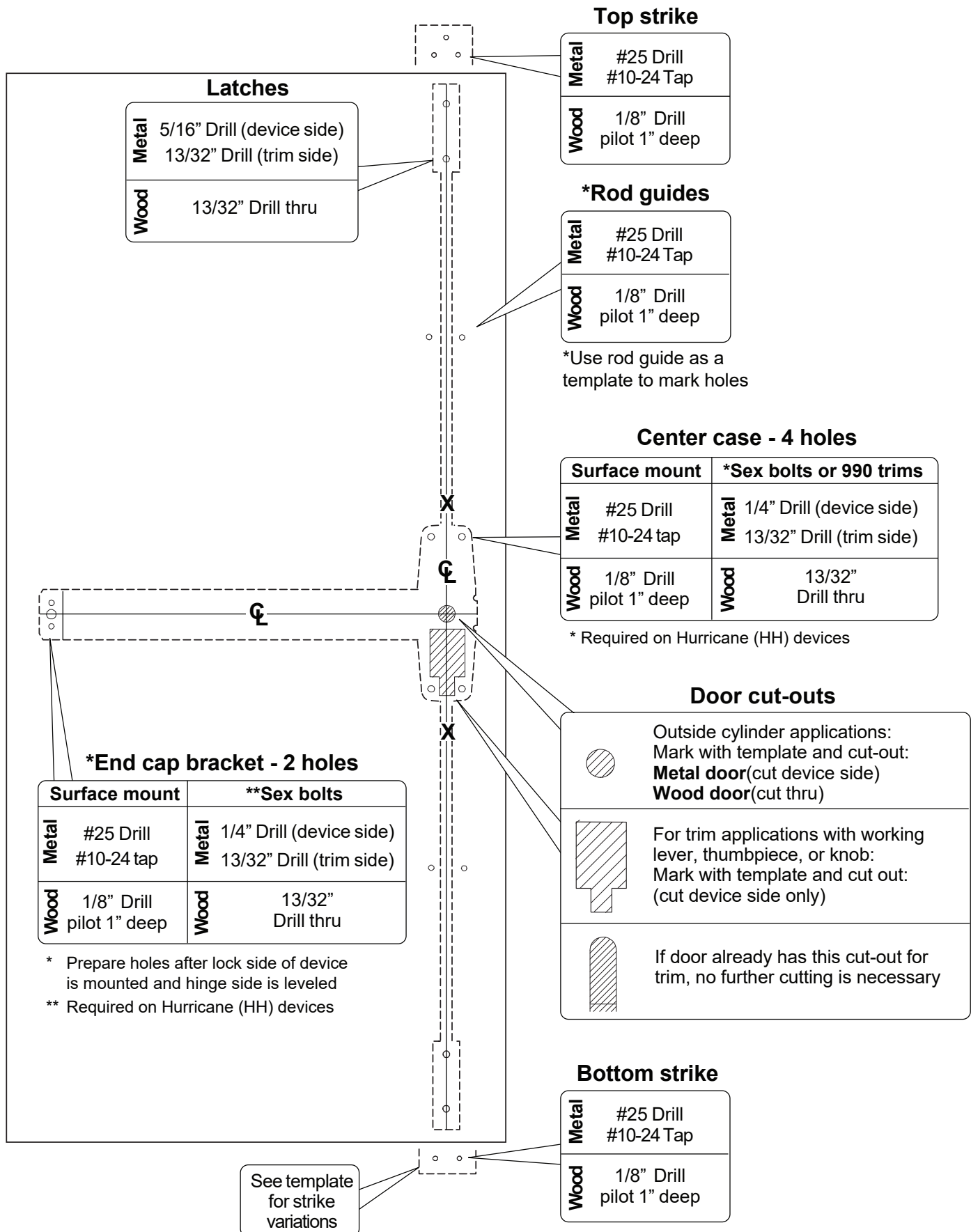
J



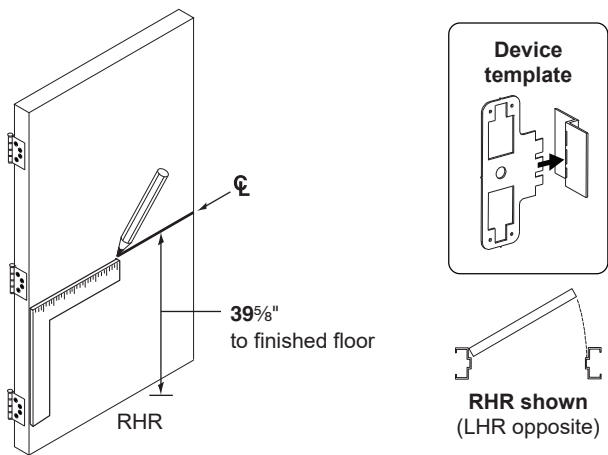
	#8-18 x 3/8" Thread cutting	Center case cover
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PREPARATION CHART

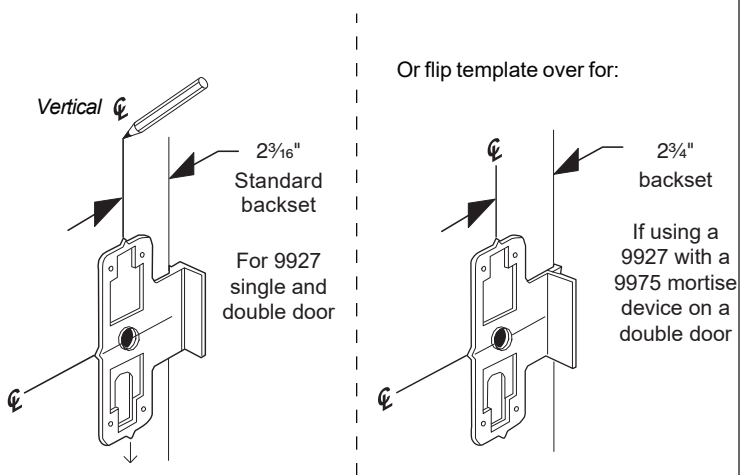
Go to instructions on next page before using Preparation Chart



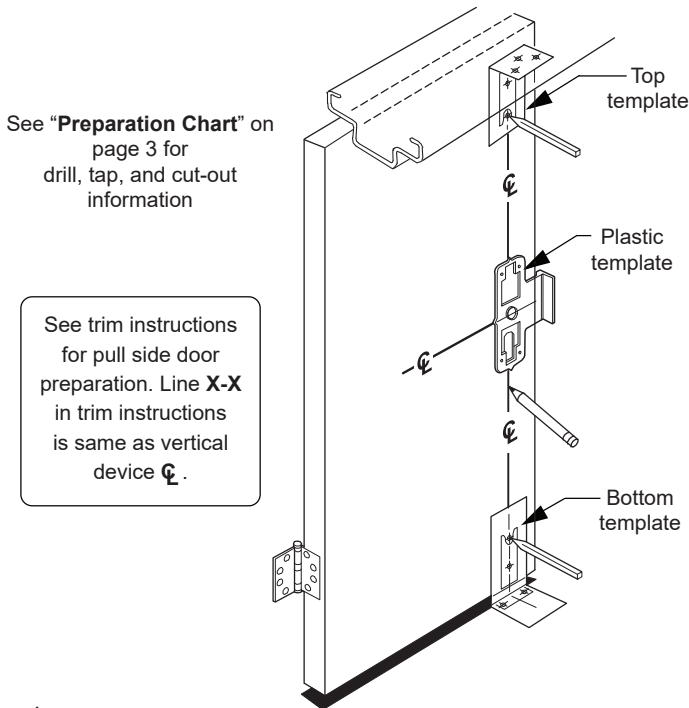
1 Draw Horizontal Center Line (☉) and Assemble Device Template



2 Position Template as Shown and Mark Vertical ☉



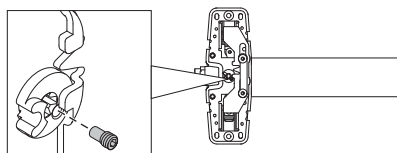
3 Align Top and Bottom Templates Along ☉ and Prepare Door



4 If Necessary, Remove NL Drive Screw

NL drive screw

Factory installed on back of center case



With the NL drive screw removed, key locks and unlocks lever, knob, or thumb piece. For the trims listed below, **REMOVE** NL drive screw.

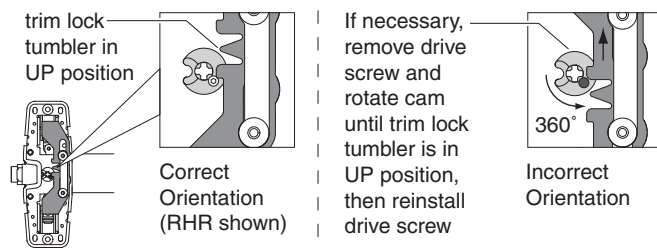
- 996L
- 696TP
- 990TP
- 996K
- 697TP

With the NL drive screw installed, key retracts latch bolt. **DO NOT** remove NL drive screw for the following applications:

NL, EO, DT trims and 98/99-2 double cylinder devices (i.e. TP-2, L-2, and K-2).

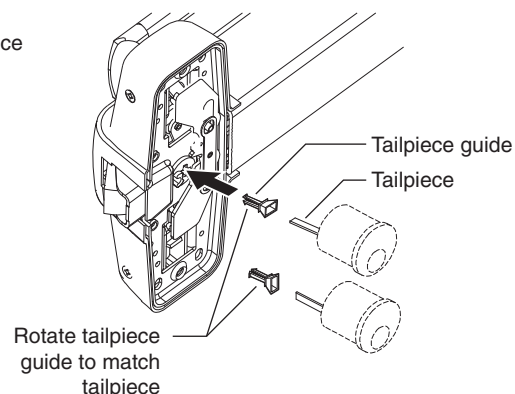
- *996L-BE
- *E996L
- *696TP-BE
- *990TP-BE
- *996K-BE
- *E996L-BE
- *697TP-BE

* If the trim being installed is "BE" (i.e. 996L-BE), the trim lock tumbler on the back of the device must be in the **UP** position before device is installed. This allows the trim to be unlocked at all times.

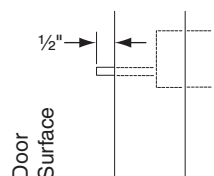


5 If Using a Cylinder with a Tailpiece, Prepare Device and Cylinder

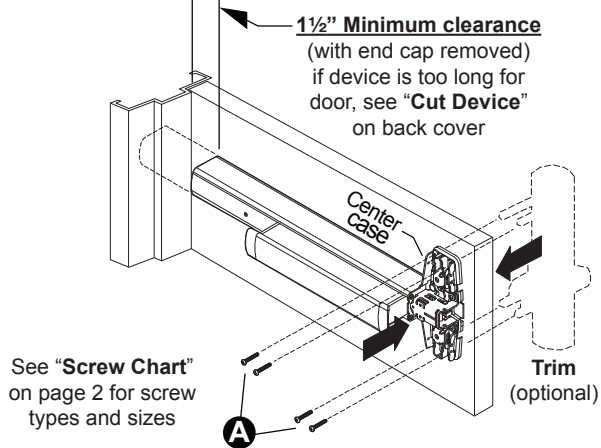
a. Install tailpiece guide.



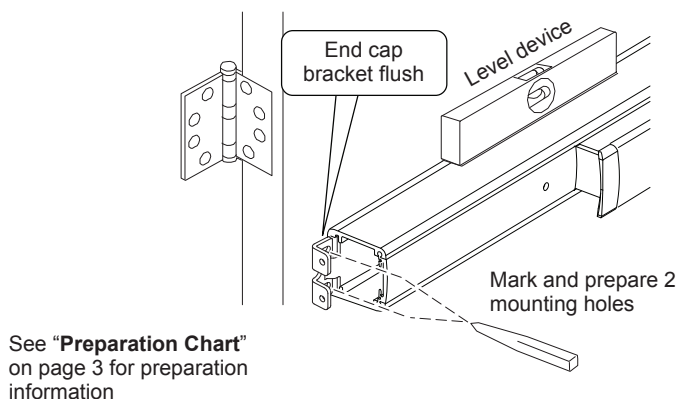
b. Cut tailpiece as needed.



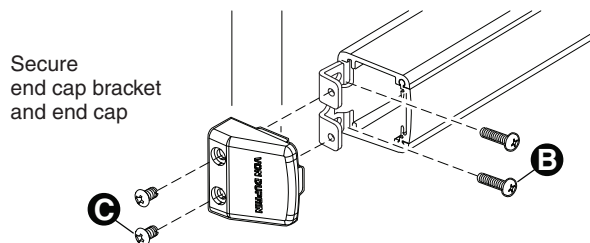
6 Install Trim (if using) and Secure Device Center Case to Door



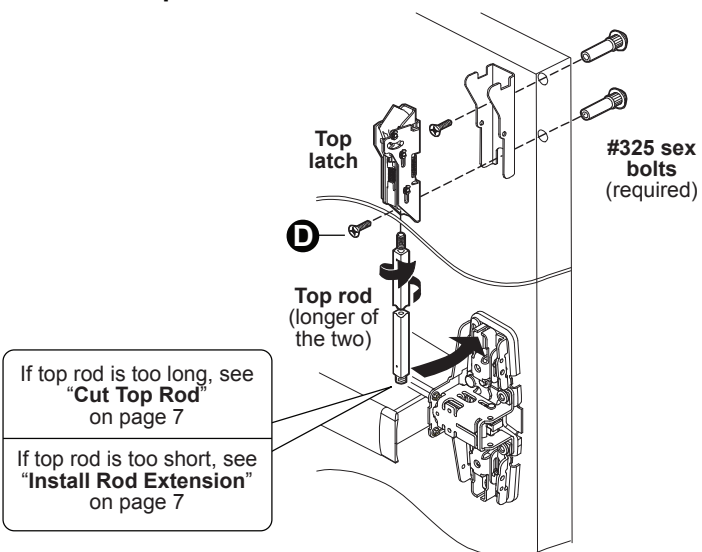
7 Mark and Prepare 2 Holes for End Cap Bracket



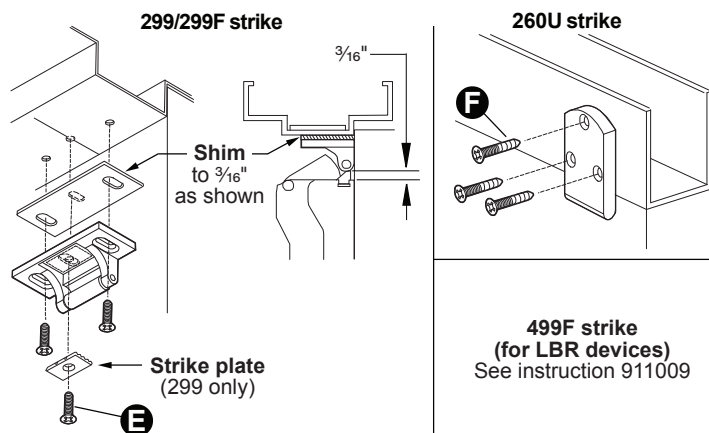
8 Install End Cap Bracket and End Cap



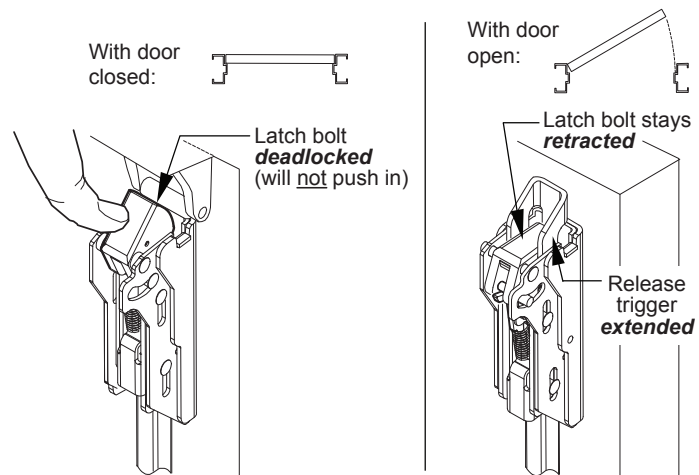
9 Install Top Latch and Rod



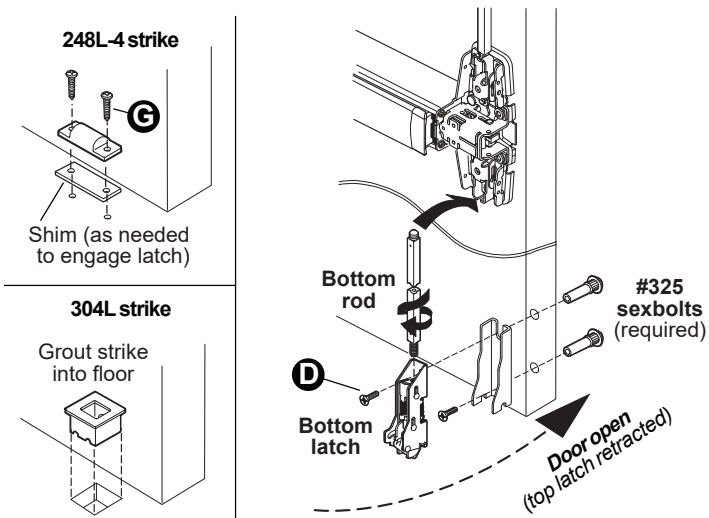
10 Install Top Strike



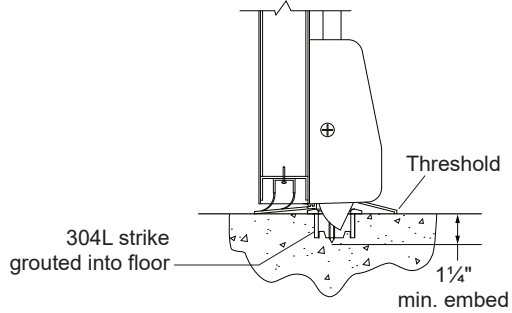
11 Adjust Top Rod (Screw Rod Into or Out of Latch) Until Adjusted as Shown



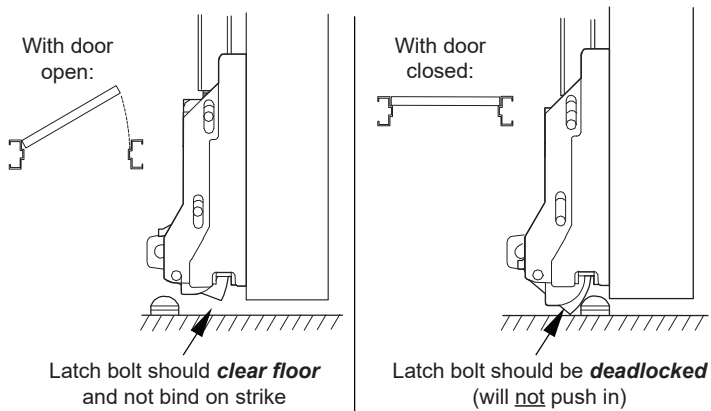
12 Install Bottom Strike, Latch, and Rod



Hurricane applications use threshold with 304L bottom strike

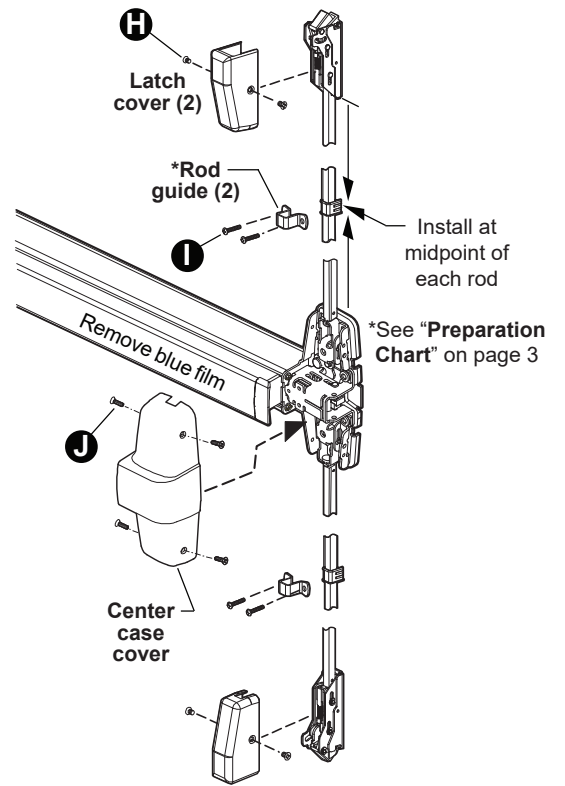


13 Adjust Bottom Rod with Door Open (Top Latch Retracted)



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

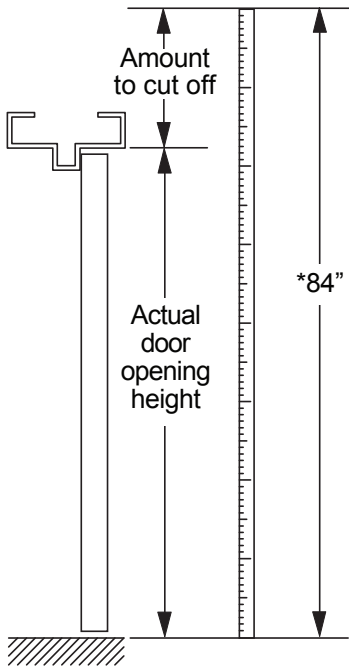
14 Install Rod Guides and Covers



CUT TOP ROD

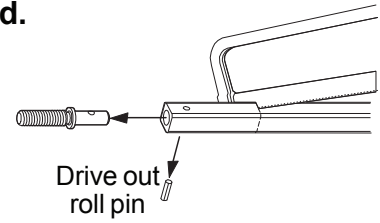
1. Measure amount to cut off rod as shown below.

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



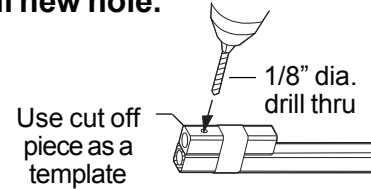
*Rods are factory sized for 7' (84") door. Measure actual door opening height and subtract that number from 84" to get amount to cut off top rod.

2. Cut rod.



Drive out roll pin

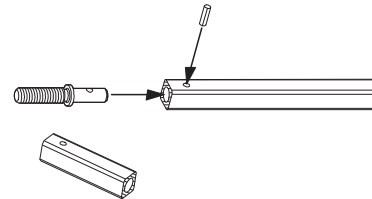
3. Drill new hole.



Use cut off piece as a template

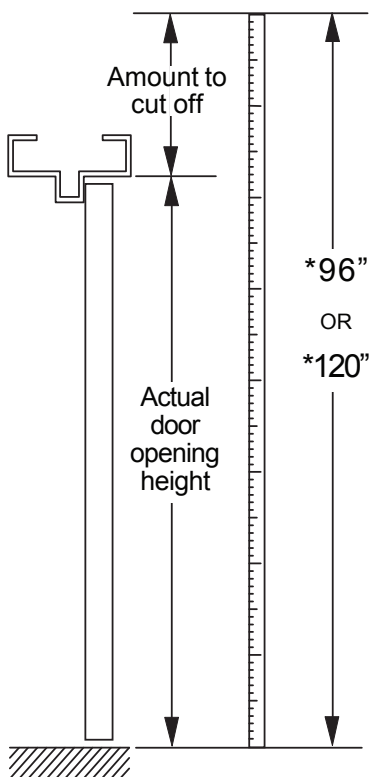
1/8" dia. drill thru

4. Reinstall rod end and roll pin.



INSTALL ROD EXTENSION

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

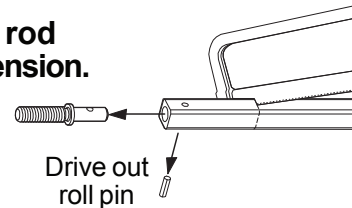


*Standard door heights:

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

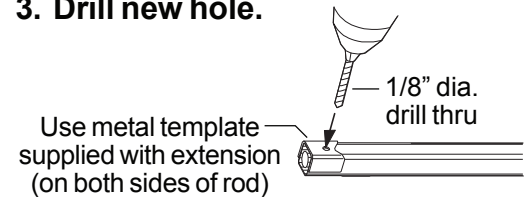
*Rods are factory sized for door heights shown above. Measure actual door opening height and subtract that number from 96" (for 1' extension) or 120" (for 3' extension) to get amount to cut off extension.

2. Cut rod extension.



Drive out roll pin

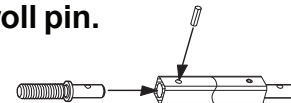
3. Drill new hole.



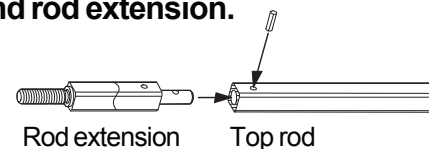
Use metal template supplied with extension (on both sides of rod)

1/8" dia. drill thru

4. Reinstall rod end and roll pin.



5. Connect top rod and rod extension.



Rod extension Top rod

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.

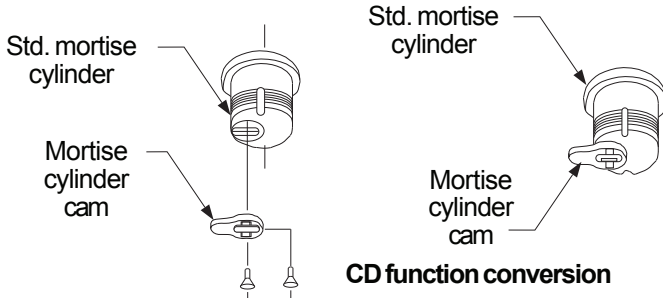


Figure 1

Dogging procedure

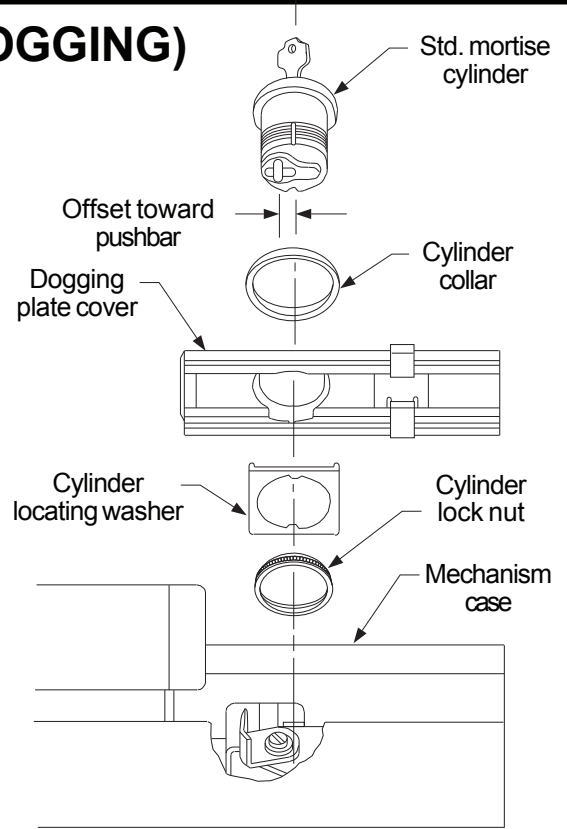
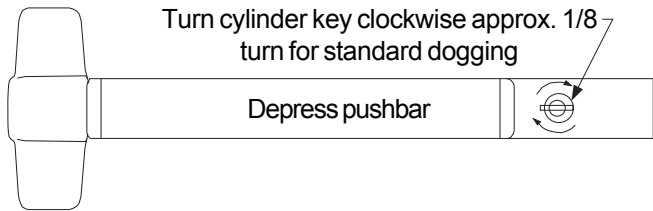
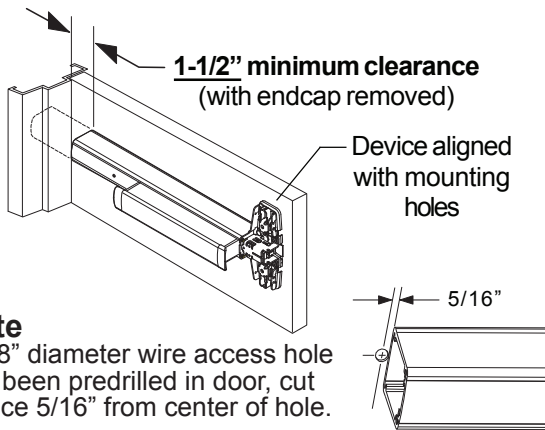


Figure 2

CUT DEVICE

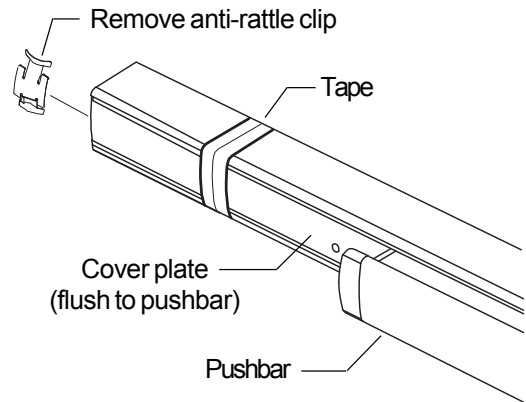
1 Measure amount to cut off device.



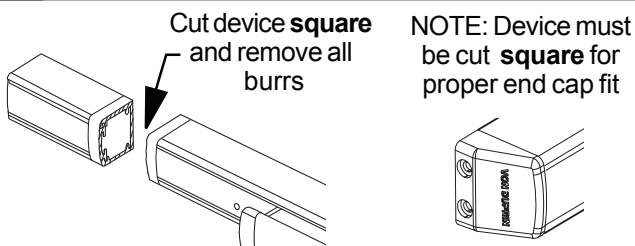
Note

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.

