



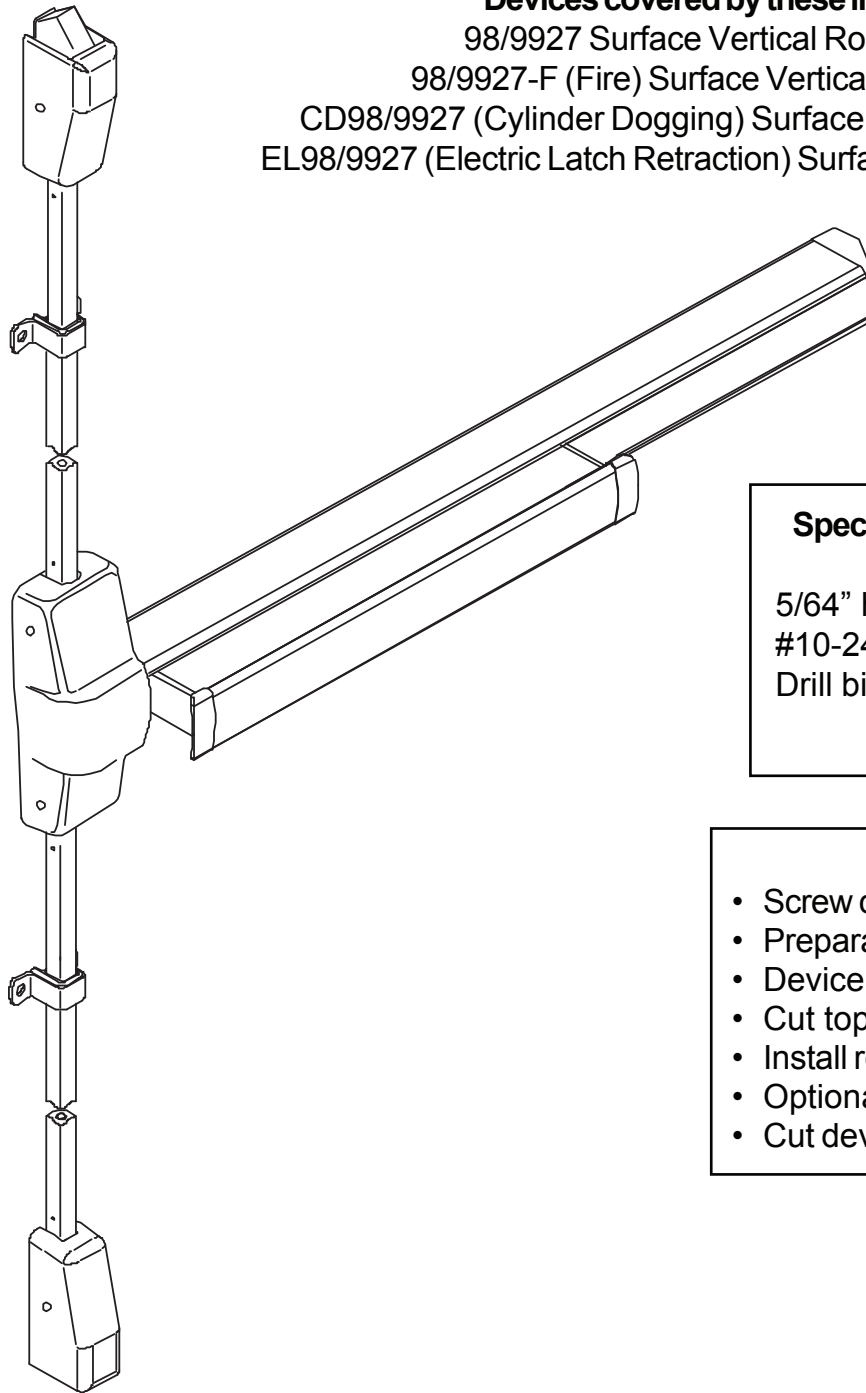
911375-00

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

EL98/9927 (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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- Install rod extension ..... 7
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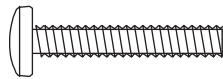
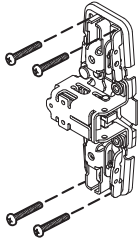
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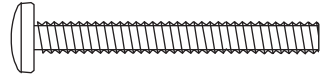
# SCREW CHART

**A**



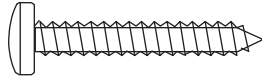
#10-24 X 1"

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

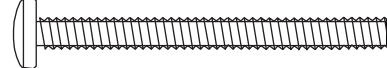
Surface mount (wood)

- Packaged with trim -



#10-24 X 1-3/8"

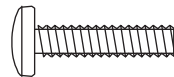
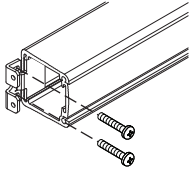
990 trims (1-3/4" door)



#10-24 X 1-7/8"

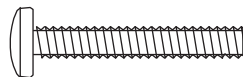
990 trims (2-1/4" door)

**B**



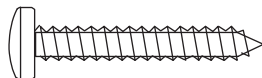
#10-24 X 3/4"

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)

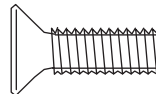
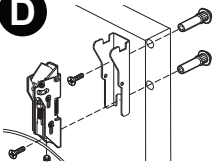
**C**



#10-16 x 3/8" Thread cutting

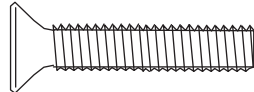
End cap

**D**



1/4-20 X 3/4"

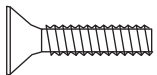
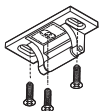
1-3/4" door



1/4-20 X 1-1/4"

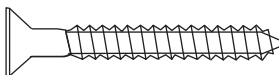
2-1/4" door

**E**



#10-24 X 3/4"

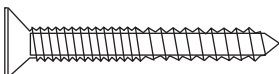
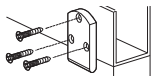
Metal frame



#10 x 1-1/2" Wood screw

Wood frame

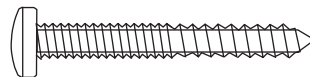
**F**



#10-12 x 10-24 x 1-1/4" Combination

Metal or wood frame

**G**



#10-12 x 10-24 x 1-1/4" Combination

Variable floor surfaces

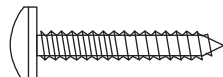
**H**



#8-32 X 1/4"

Latch covers

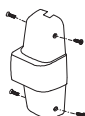
**I**



#10-12 x 10-24 x 1" Combination

Metal or wood door

**J**

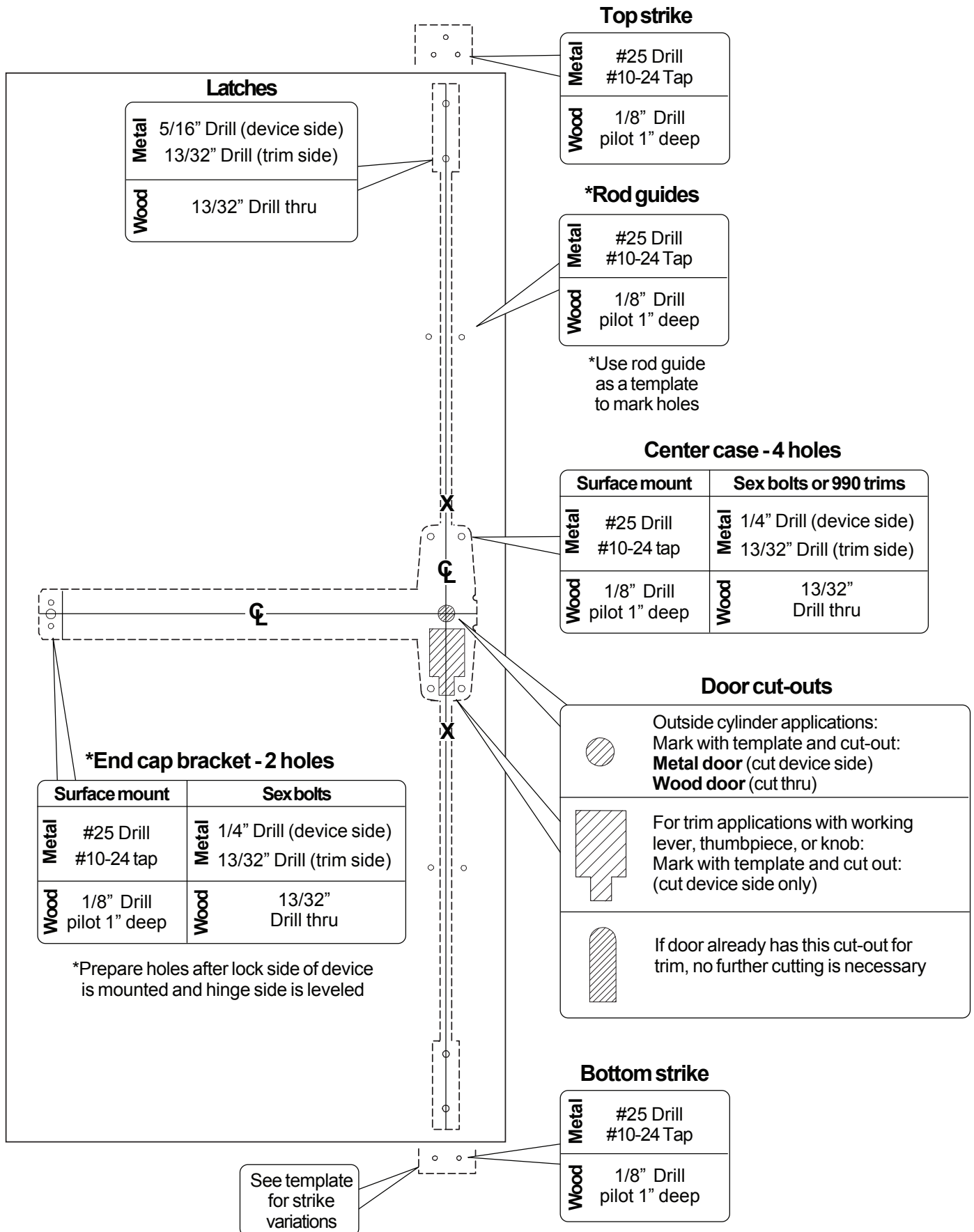


#8-18 x 3/8" Thread cutting

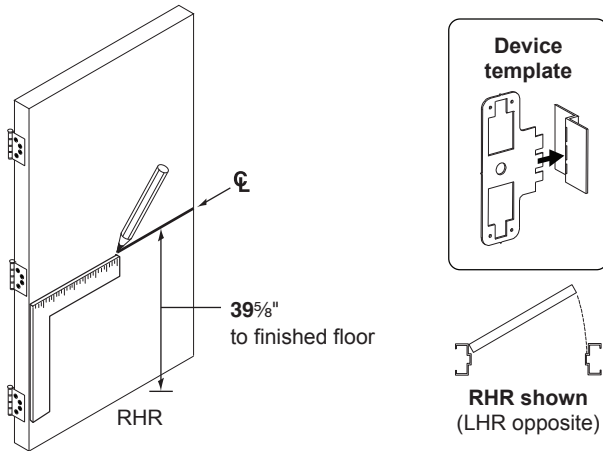
Center case cover

# PREPARATION CHART

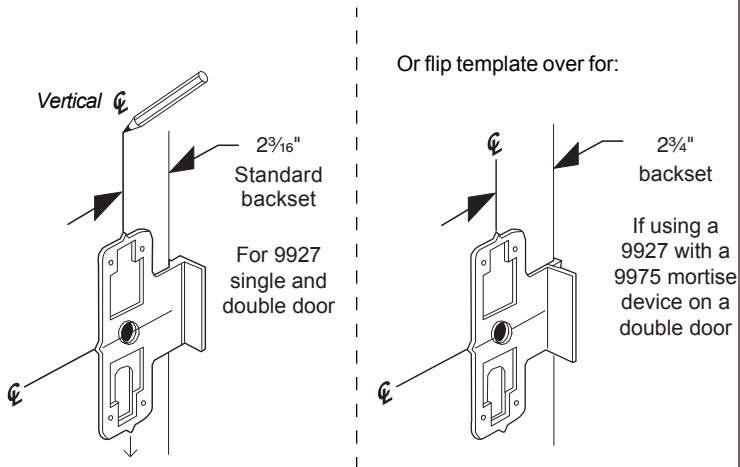
Go to instructions on next page before using Preparation Chart



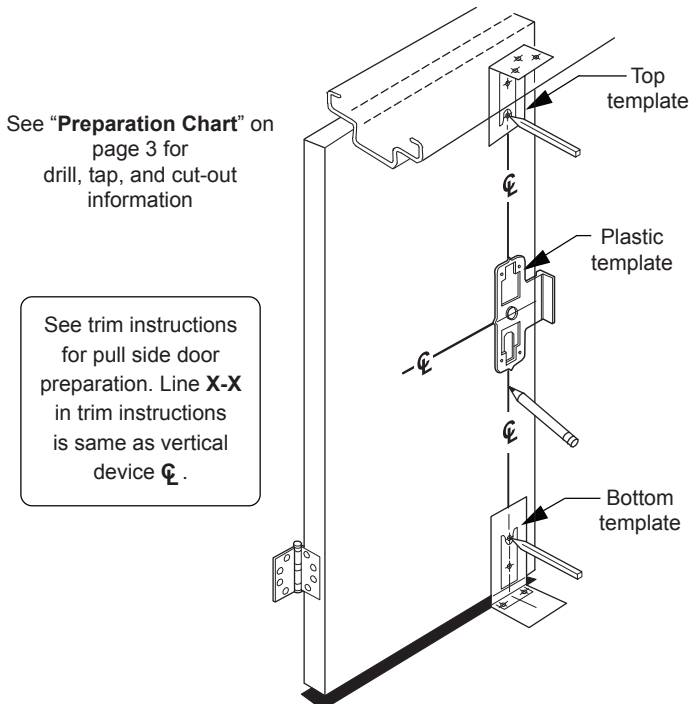
## 1 Draw Horizontal Center Line (☿) and Assemble Device Template



## 2 Position Template as Shown and Mark Vertical ☿



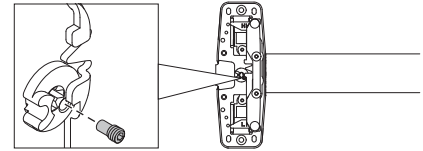
## 3 Align Top and Bottom Templates Along ☿ and Prepare Door



## 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.

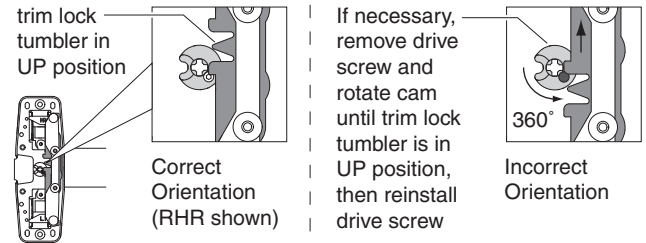
996L	696TP	990TP
996K	697TP	

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).

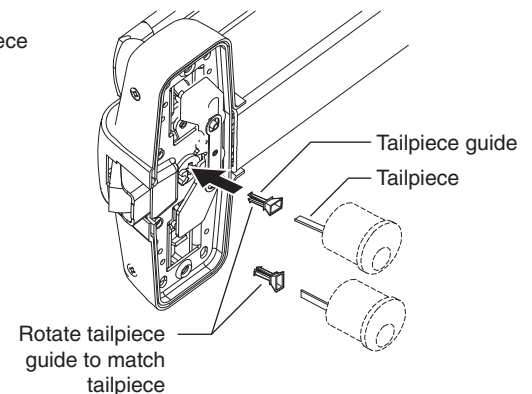
*996L-BE	*E996L	*696TP-BE	*990TP-BE
*996K-BE	*E996L-BE	*697TP-BE	

\* 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.

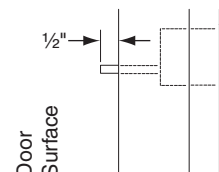


## 5 If Using a Cylinder with a Tailpiece, Prepare Device and Cylinder

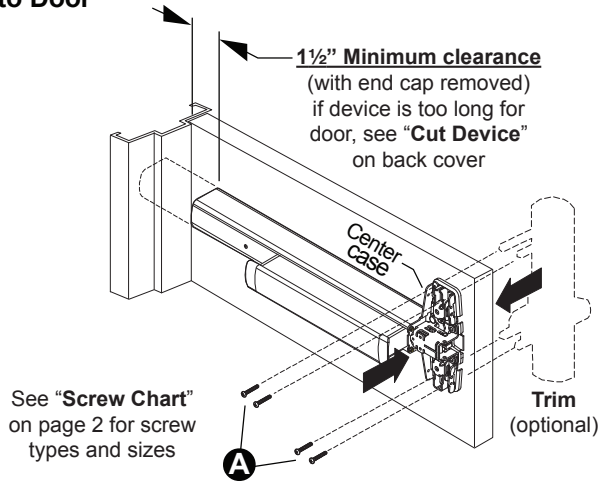
a. Install tailpiece guide.



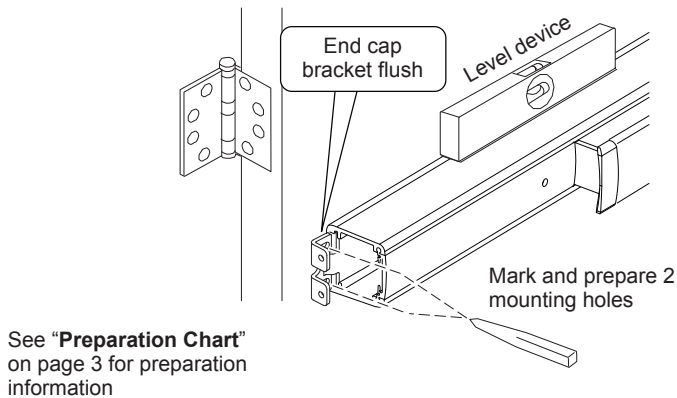
b. Cut tailpiece as needed.



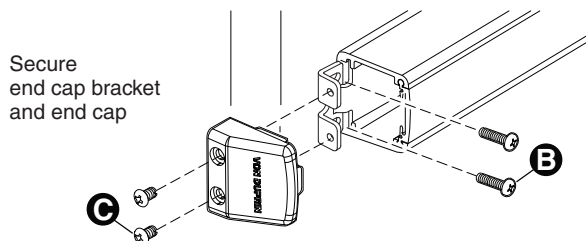
## 6 Install Trim (if using) and Secure Device Center Case to Door



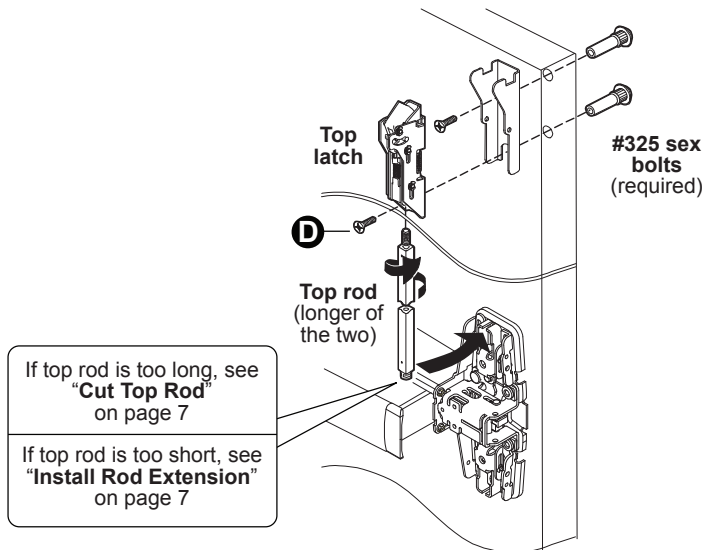
## 7 Mark and Prepare 2 Holes for End Cap Bracket



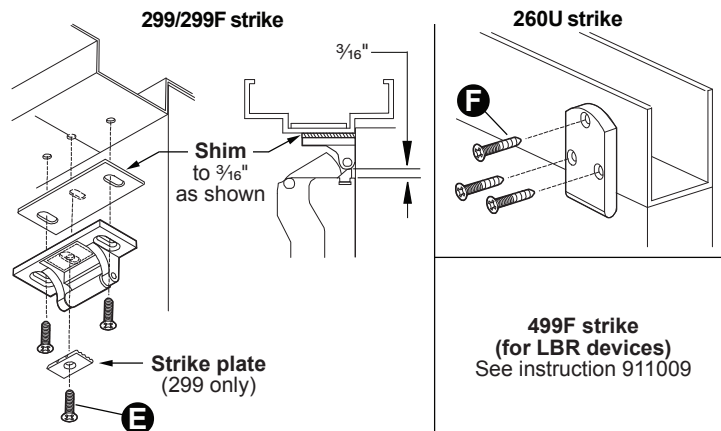
## 8 Install End Cap Bracket and End Cap



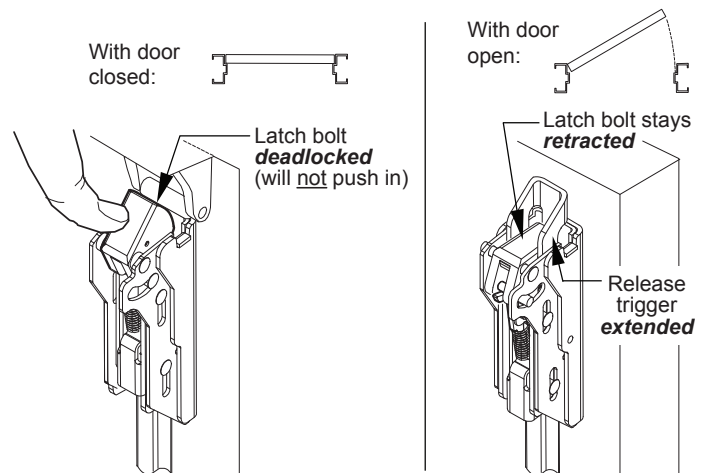
## 9 Install Top Latch and Rod



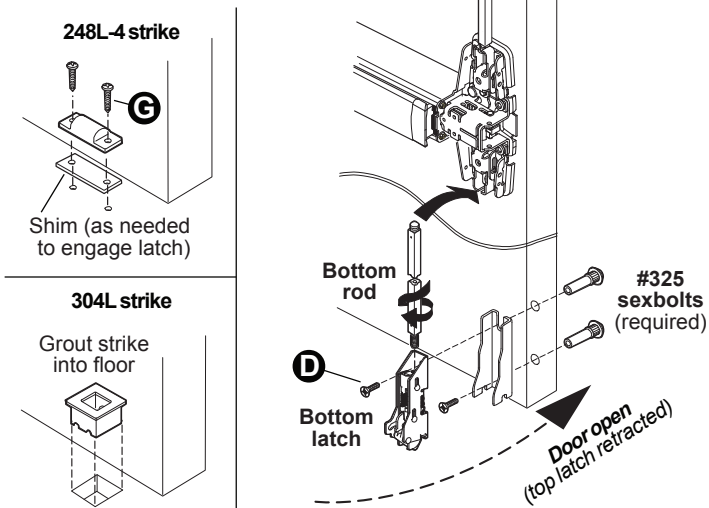
## 10 Install Top Strike



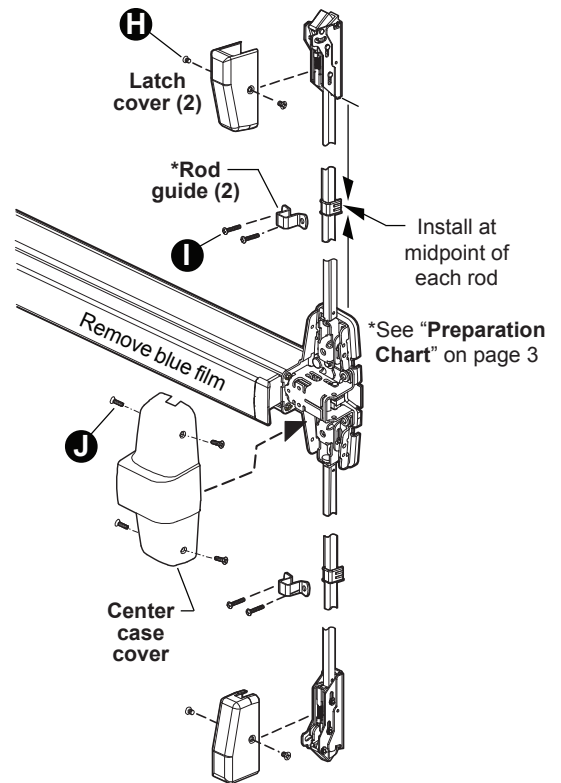
## 11 Adjust Top Rod (Screw Rod Into or Out of Latch) Until Adjusted as Shown



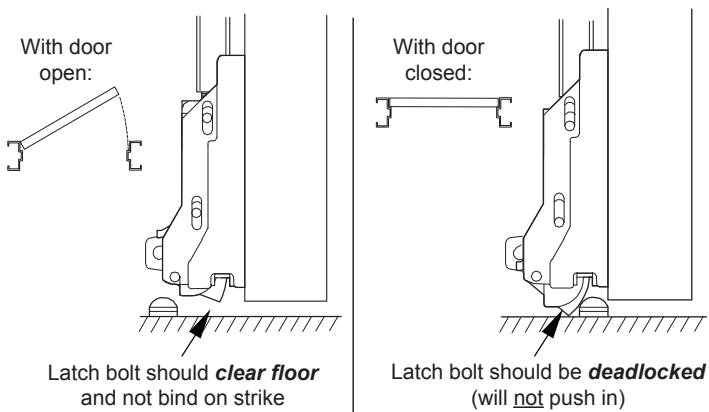
## 12 Install Bottom Strike, Latch, and Rod



## 14 Install Rod Guides and Covers



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

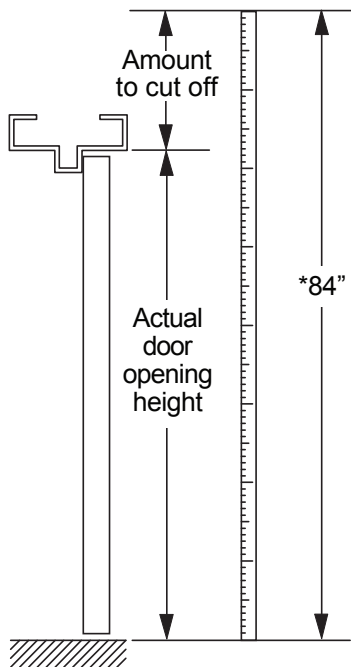


Open and close door a few times and check for deadlatching when door is closed. Readjust rods if needed.

# CUT TOP ROD

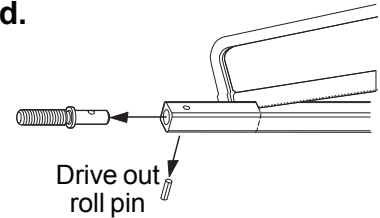
## 1. Measure amount to cut off rod as shown below.

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

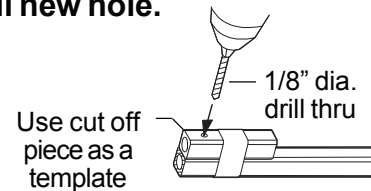


\*Rods are factory sized for 7' (84") door. Measure actual door opening height and subtract that number from 84" to get amount to cut off top rod.

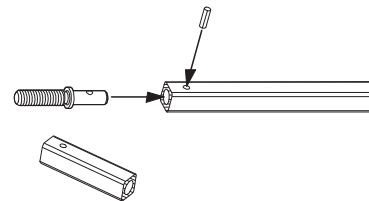
## 2. Cut rod.



## 3. Drill new hole.

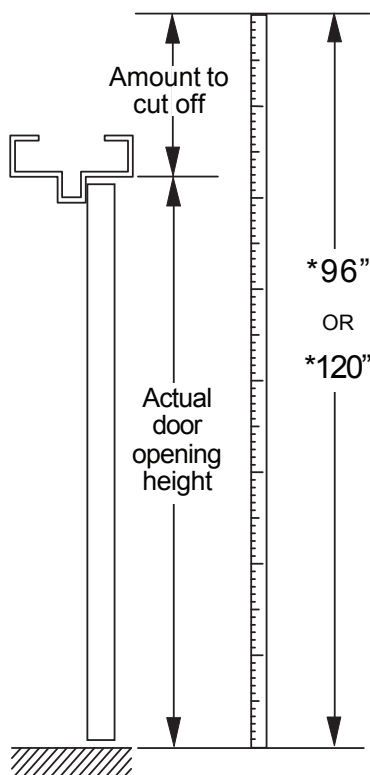


## 4. Reinstall rod end and roll pin.



# INSTALL ROD EXTENSION

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

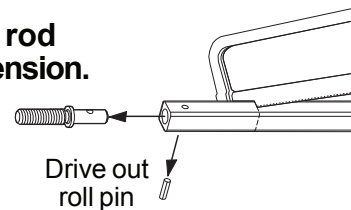


### \*Standard door heights:

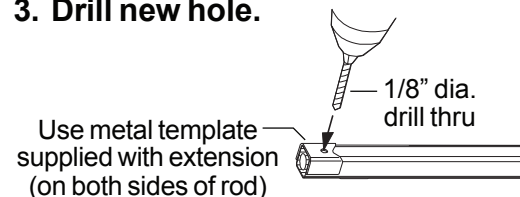
With no extension	7' (84")
With 1' extension	8' (96")
With 3' extension	10' (120")

\*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.

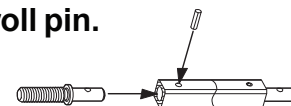
## 2. Cut rod extension.



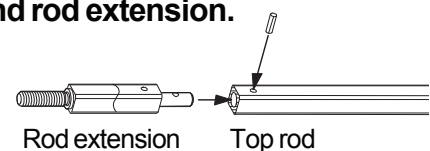
## 3. Drill new hole.



## 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.

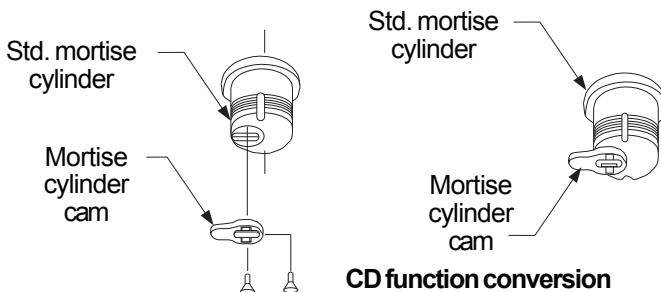


Figure 1

#### Dogging procedure

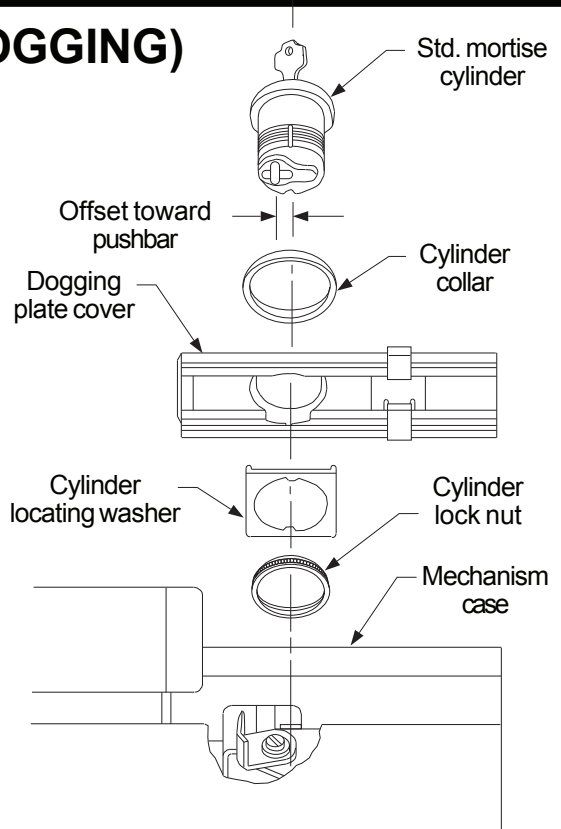
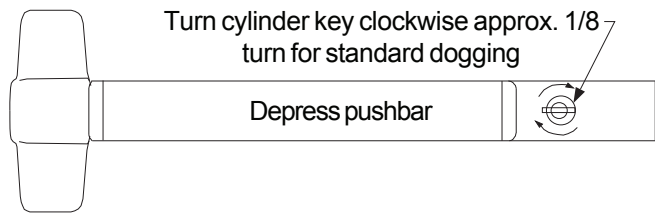
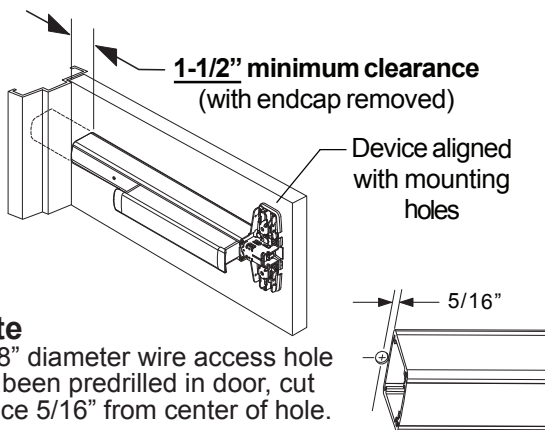


Figure 2

## CUT DEVICE

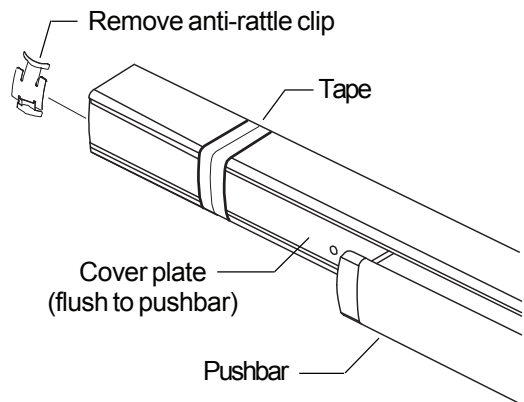
### 1 Measure amount to cut off device.



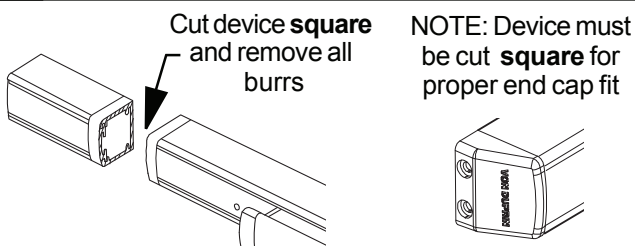
#### Note

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.

