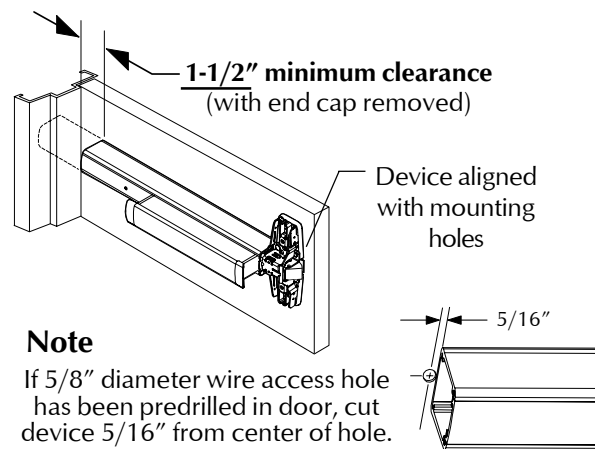
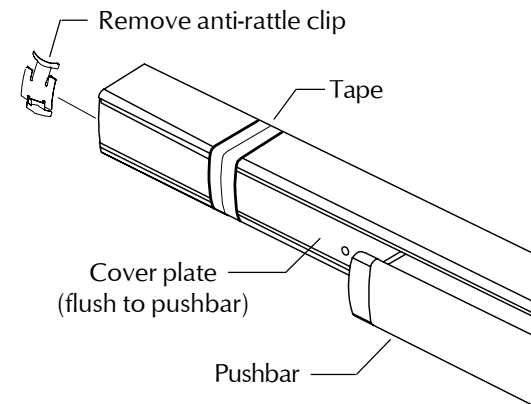


CUT DEVICE

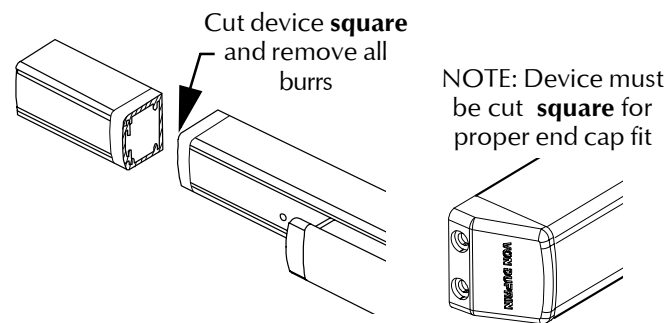
1 Measure amount to cut off device.



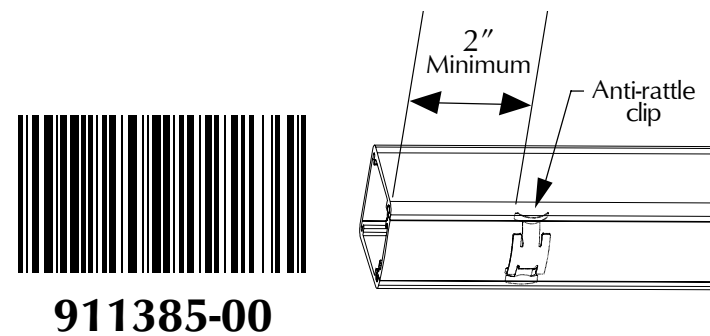
2 Tape and mark area being cut.



3 Cut device square.



4 Slide anti-rattle clip into device.

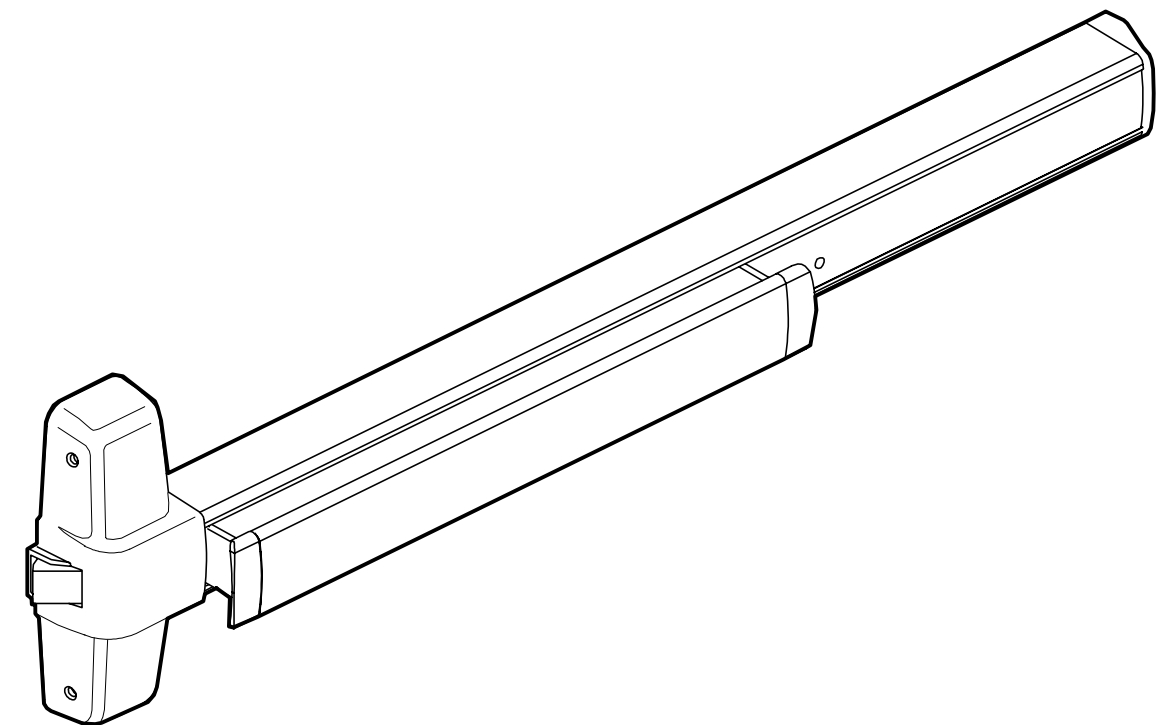


VON DUPRIN® Installation Instructions



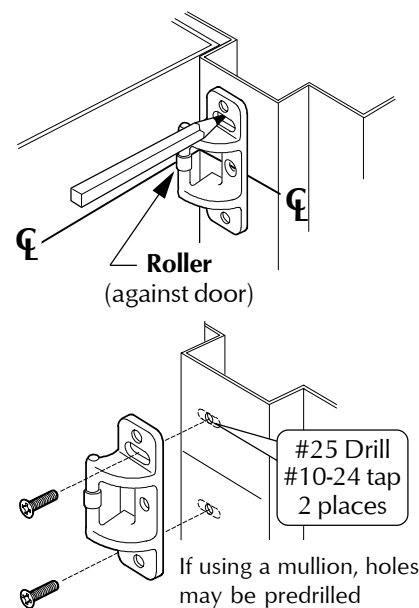
E98/99 Series Rim Device

Devices covered by these instructions:
E98/99 Rim Exit Device
E98/99-F Rim Exit Device

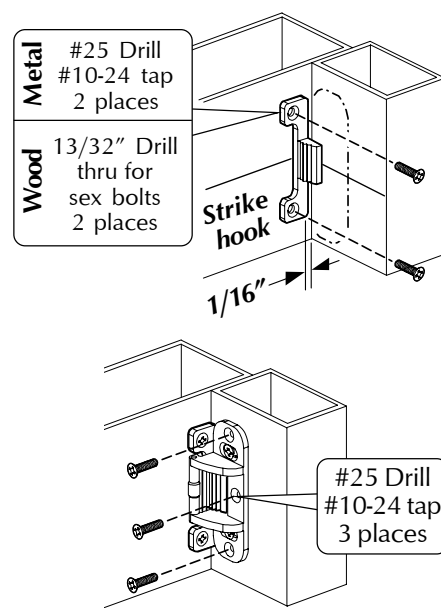


499F STRIKE INSTALLATION

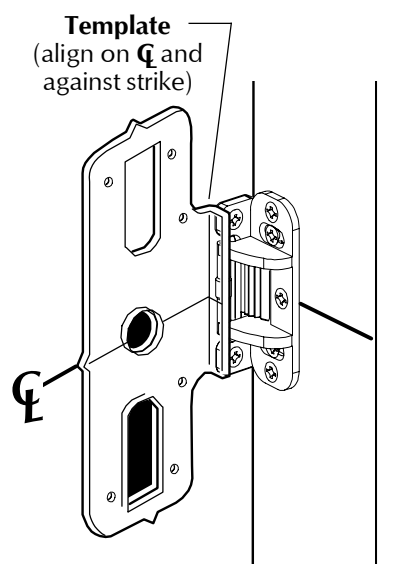
1 Prepare and install screws through 2 strike slots.



2 Install strike hook and additional strike screws.



3 Template aligns as shown.



Special tools needed:

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

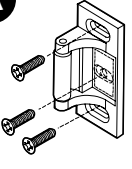
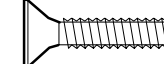
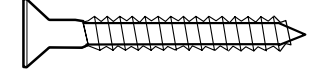
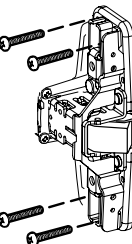
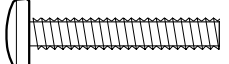
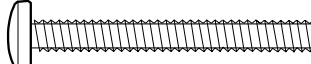
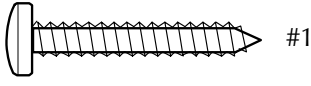

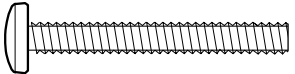
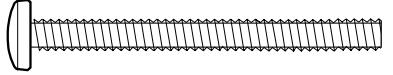
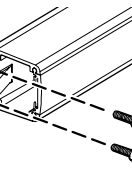
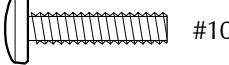
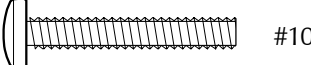
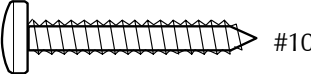
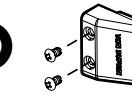

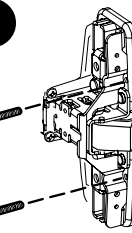
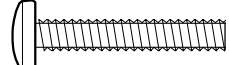
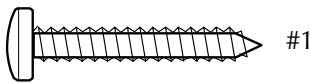
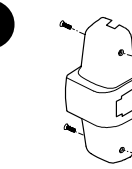

This product is covered by the following patent numbers:

3,767,238 4,427,223
3,854,763 4,466,643
4,167,280 4,741,563

Index:

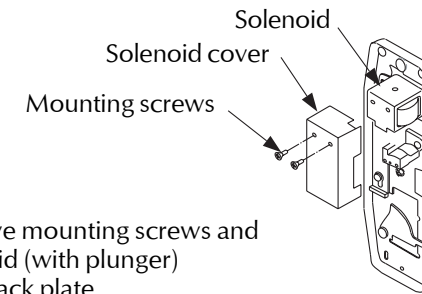
- Screw chart 2
- Preparation chart 3
- Device installation 4-5
- Wiring instructions 6
- FS to FSE conversion 7
- CD (cylinder dogging) 7
- Cut device 8
- 499F strike installation 8

SCREW CHART

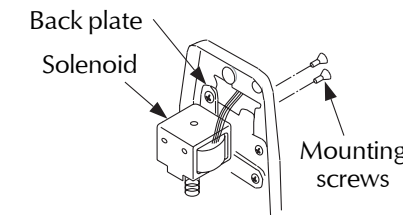
| | | |
|--|--|---|
| A  |  #10-24 X 3/4"  #10 X 1-1/2" Wood screw | Metal frame Wood frame |
| B  |  #10-24 X 1"  #10-24 X 1-1/2"  #10 X 1-1/4" Wood screw | Surface mount or Sex bolts (1-3/4" door) Sex bolts (2-1/4" door) Surface mount (wood) |
| C  | - Packaged with trim -  #10-24 X 1-3/8"  #10-24 X 1-7/8" | 990 Trims (1-3/4" door) 990 Trims (2-1/4" door) |
| D  |  #10-24 X 3/4"  #10-24 X 1-1/8"  #10 X 1-1/4" Wood screw | Surface mount or Sex bolts (1-3/4" door) Sex bolts (2-1/4" door) Surface mount (wood) |
| E  |  #10-16 X 3/8" Thread cutting | End cap screw |
| F  |  #10-24 X 1"  #10 X 1-1/4" Wood screw | Surface mount (metal) Surface mount (wood) |
| G  |  #8-18 X 3/8" Thread cutting | Cover screw |

FAIL SAFE (FS) TO FAIL SECURE (FSE) CONVERSION

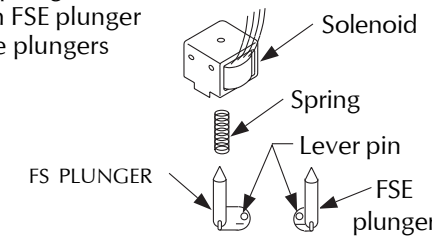
A. Remove mounting screws and solenoid cover.



B. Remove mounting screws and solenoid (with plunger) from back plate.

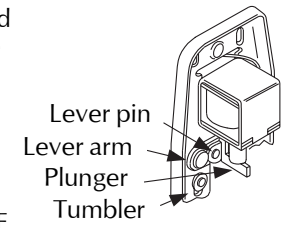


C. Remove FS plunger and replace with FSE plunger (in bag). The plungers are marked.

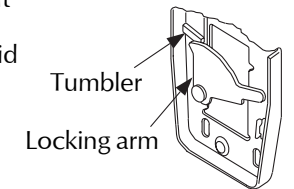


LHR shown
RHR opposite

D. Hold the plunger in the solenoid and the guide lever pin into the lever arm slot as shown while holding the switch lever depressed. With pin in place, reinstall solenoid to backplate.

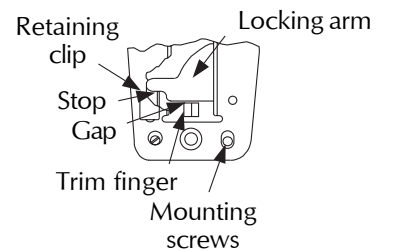


E. To check the function of the FSE assembly, push the plunger into the solenoid and hold. Raise the locking arm as shown to ensure that it clears the tumbler without touching it. Release locking arm and plunger and reinstall solenoid cover.



F. Check locking arm position after device and outside trim are installed on door.

1. With outside trim finger at rest, locking arm must stop on cover retainer clip.
2. If it stops on trim finger, loosen the device mounting screws and shift the device upward. Reference the trim instructions for additional trim finger adjustment.



OPTIONAL EQUIPMENT

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.

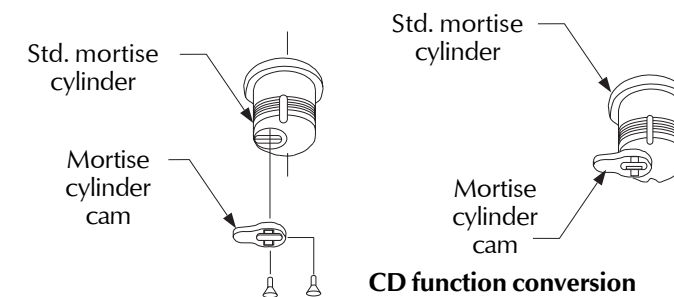


Figure 1

Dogging procedure

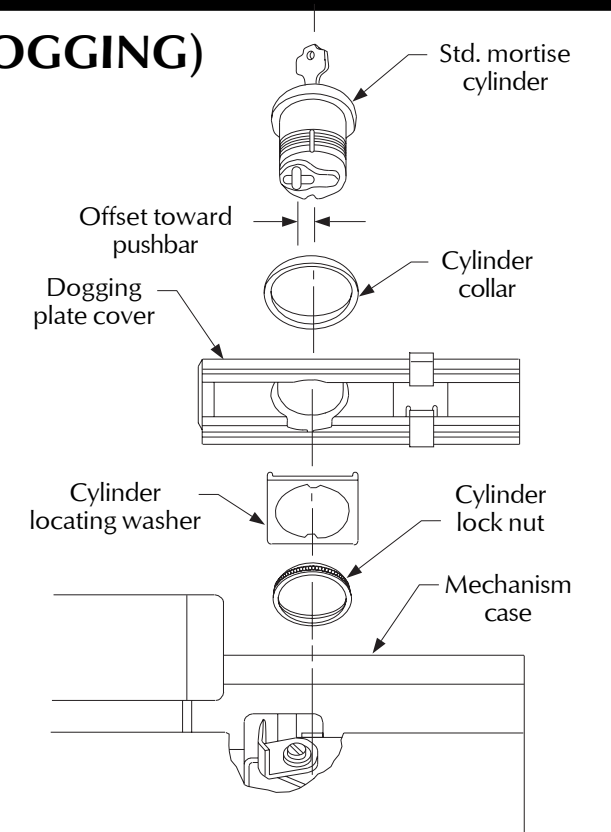
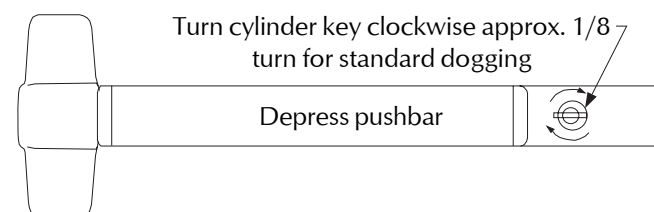


Figure 2

WIRING INSTRUCTIONS

Device operation

The solenoid is used to lock or unlock the outside trim. The fail safe option requires power to be supplied to the solenoid to lock the trim. The fail secure version requires power to the solenoid to unlock the trim. Two switches are used to monitor the status of the device. One monitors the trim lock function of the device (locked or unlocked) and the other monitors the latch bolt position (extended or retracted).

In the fail safe mode the orange lead is closed and the brown lead is open when the trim is locked. In the fail secure mode the orange lead is open and the brown lead closed when the trim is locked. The status of the brown and orange leads reverse whenever the trim is unlocked.

Wiring for device

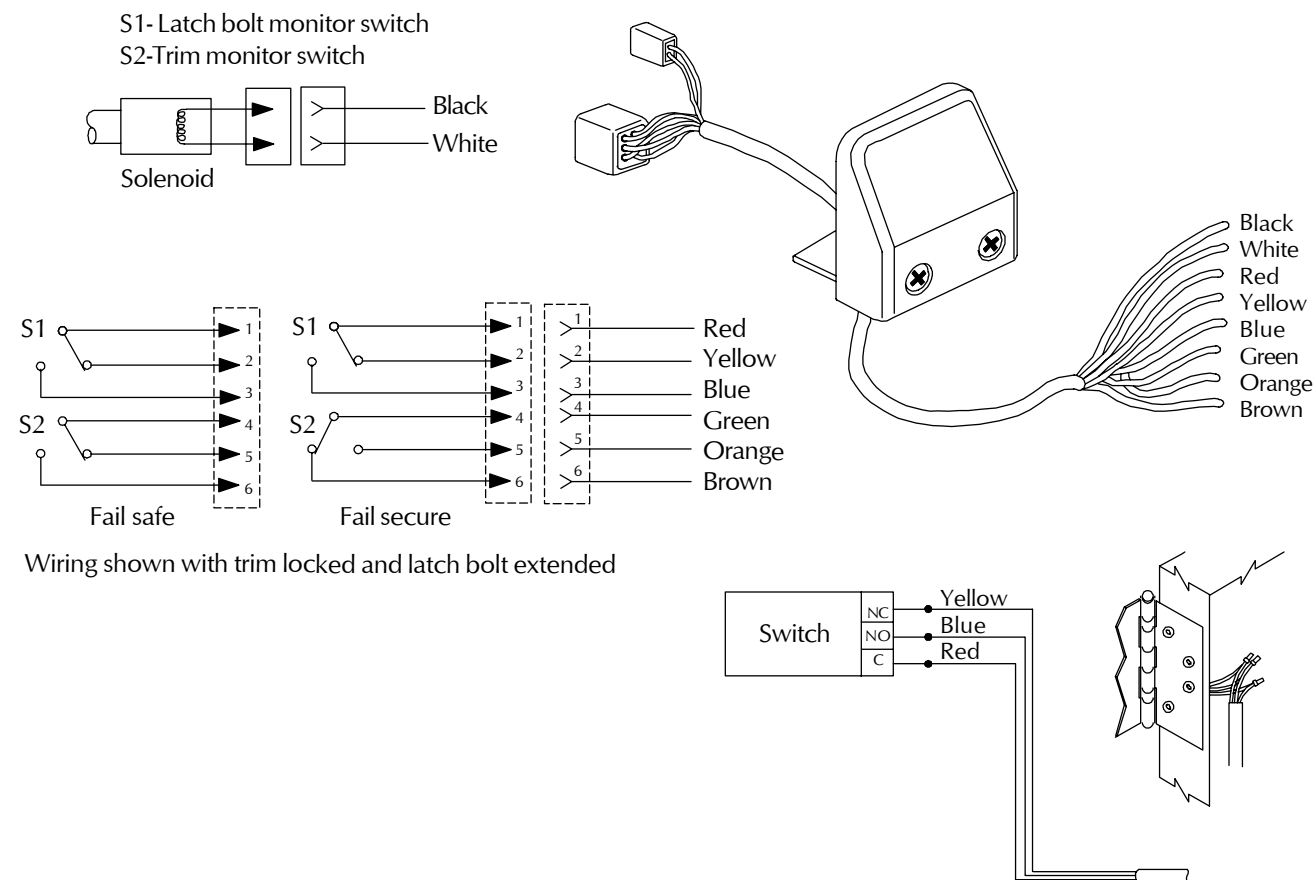
1. Solenoid – two wires, black and white, are used for power to the solenoid (24 VDC only).
2. Latch bolt monitoring switch (S1) – three wires, red (common), yellow (normally closed) and blue (normally open) are used to monitor the position of the latch bolt. When the latch bolt is depressed the normally open position on the switch closes and the normally closed position opens.
3. Trim monitoring switch (S2) – three wires, green (common), orange, and brown, monitor the trim status (locked or unlocked).

Installation

The cable length provided permits wiring the device to most field wiring situations. Be sure to leave an adequate length of cable so connections can be made with the power transfer device at hinge. For a good electrical and mechanical connection the use of crimp type connectors to splice the cable to the field wiring is recommended. All unused leads on the monitor switches should be insulated.

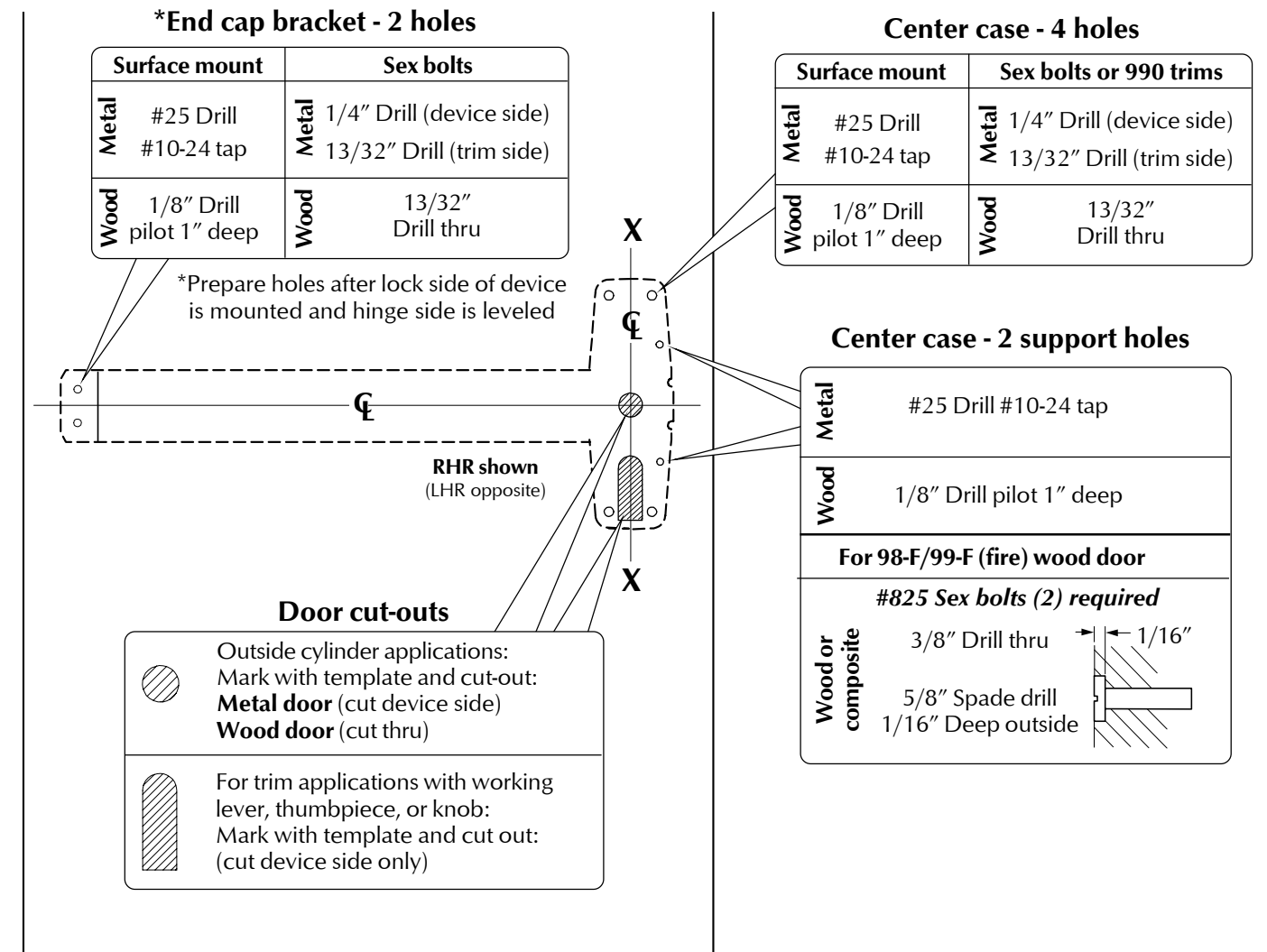
Operation

Application of 24 VDC to solenoid (black and white wires) will lock (fail safe) or unlock (fail secure) the trim. The black and white wires are not polarized.

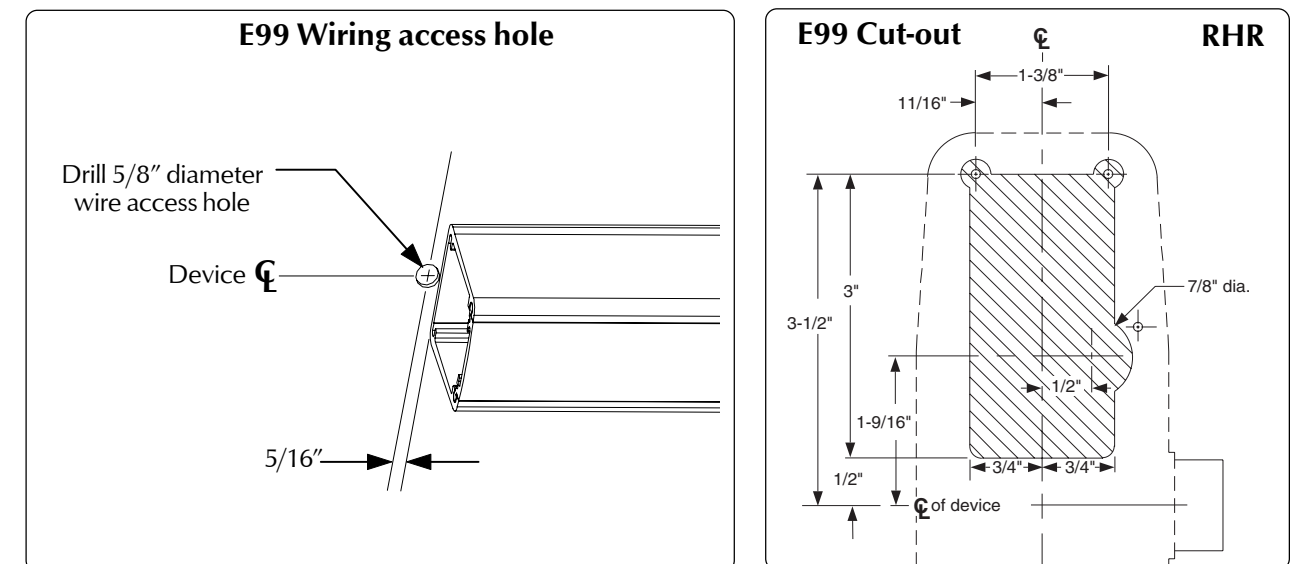


PREPARATION CHART

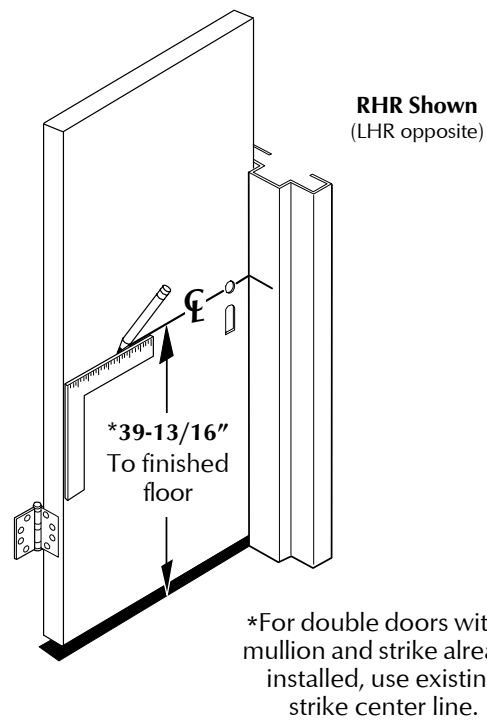
Go to instructions on next page before using preparation chart



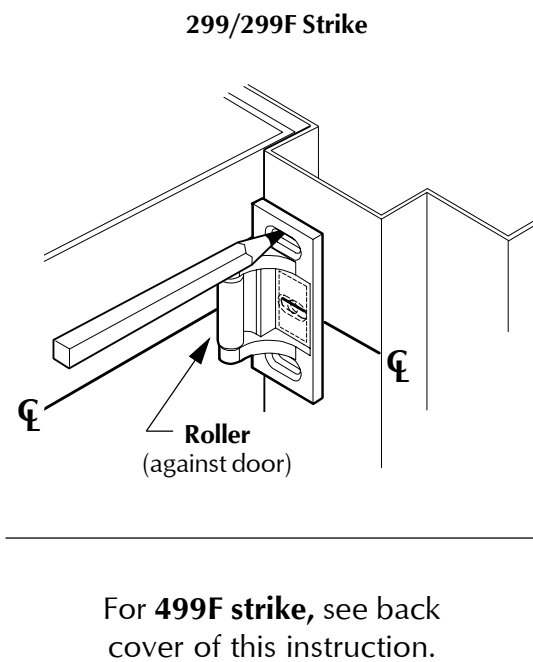
E99 PREPARATION



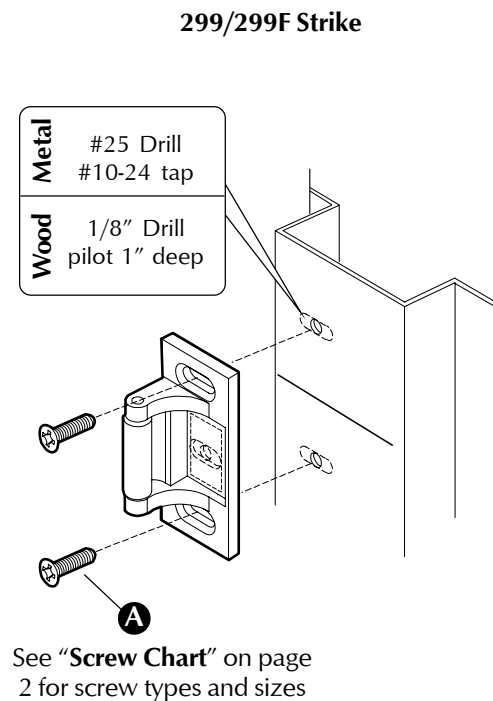
1 Draw horizontal device and strike center line (☿).



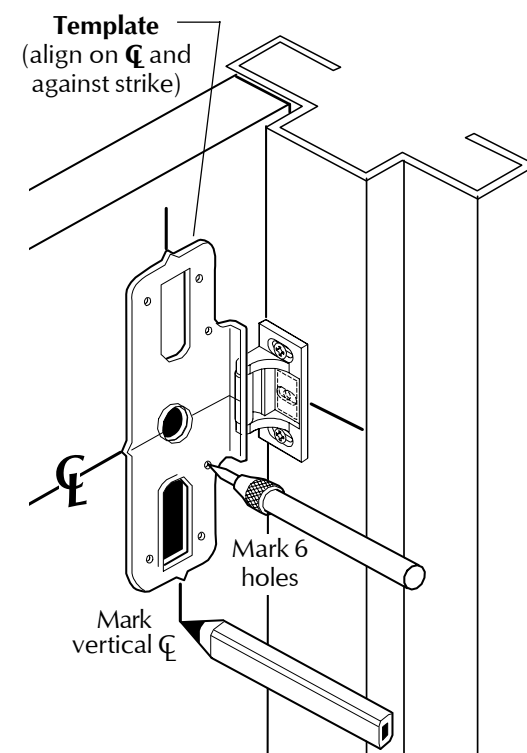
2 Align strike on ☿ and mark the two slotted holes.



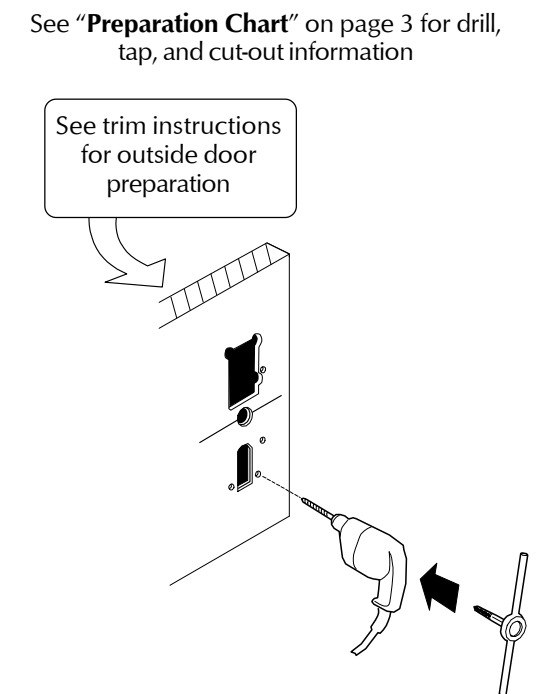
3 Prepare 2 holes and install a screw thru each slot.



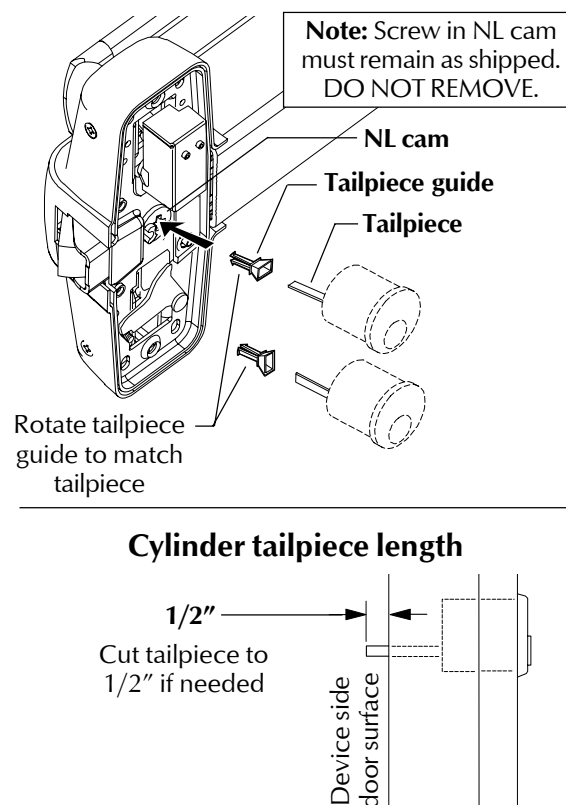
4 Position template against strike and on ☿ and mark door.



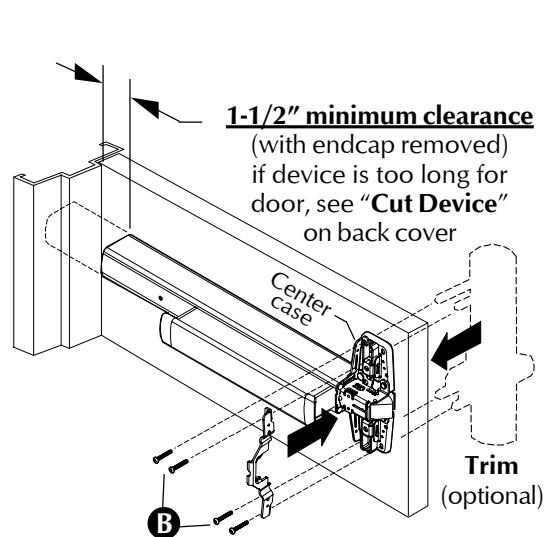
5 Prepare door for device and trim.



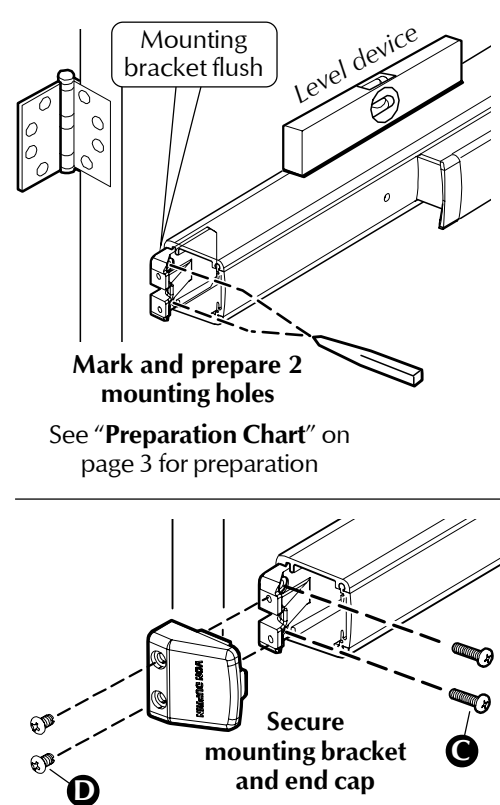
6 If using an outside NL cylinder, install tailpiece guide.



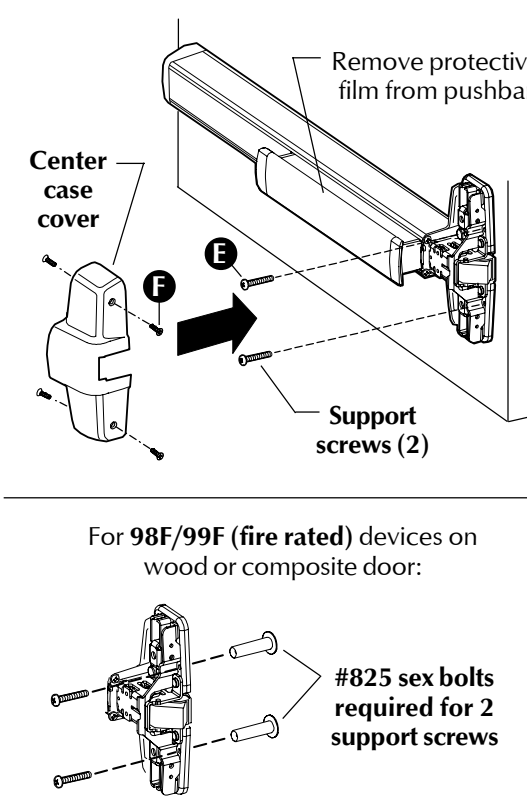
7 Install trim (if using) and secure device center case to door.



8 Install mounting bracket and end cap.



9 Install 2 support screws, and center case cover.



10 Adjust and secure strike.

