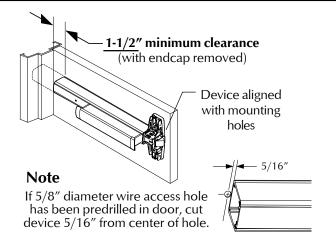
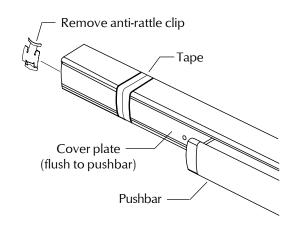
#### **CUT DEVICE**

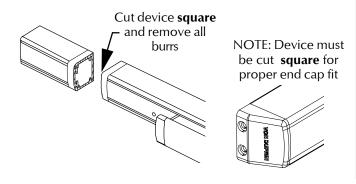
#### Measure amount to cut off device.



#### Tape and mark area being cut.

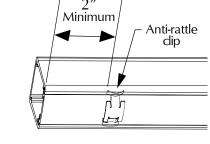


### 3 Cut device square.



4. Slide anti-rattle clip into device.

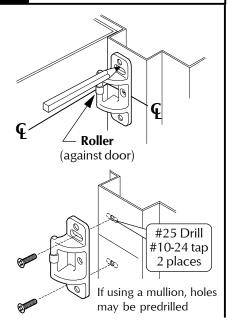




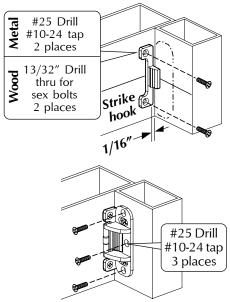
911373-00

#### **499F STRIKE INSTALLATION**

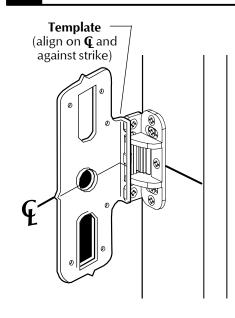
### Prepare and install screws through 2 strike slots.



2 Install strike hook and additional strike screws.



**3** Template aligns as shown.



### **VON DUPRIN**®

### **Installation Instructions**



### 98/99 Series Rim Exit Device

#### **Devices covered by these instructions:**

98/99 Rim Exit Device 98/99-F (Fire) Rim Exit Device CD98/CD99 (Cylinder Dogging) Rim Exit Device 98-2/99-2 (Double Cylinder) Rim Exit Device



#### Please give these instructions to building owner after device is installed

#### **Special tools needed:**

5/64" hex wrench #10-24 tap 5/8" spade drill (99-F wood door) Drill bits: #25, 1/8", 1/4",

5/16", 3/8", 13/32"

	Index:
,	Screw chart 2
,	Preparation chart3
,	Device installation4-5
,	Optional equipment6-7
	Cut davice



• 499F strike installation .....

This product is covered by the following patent numbers:

4,427,223

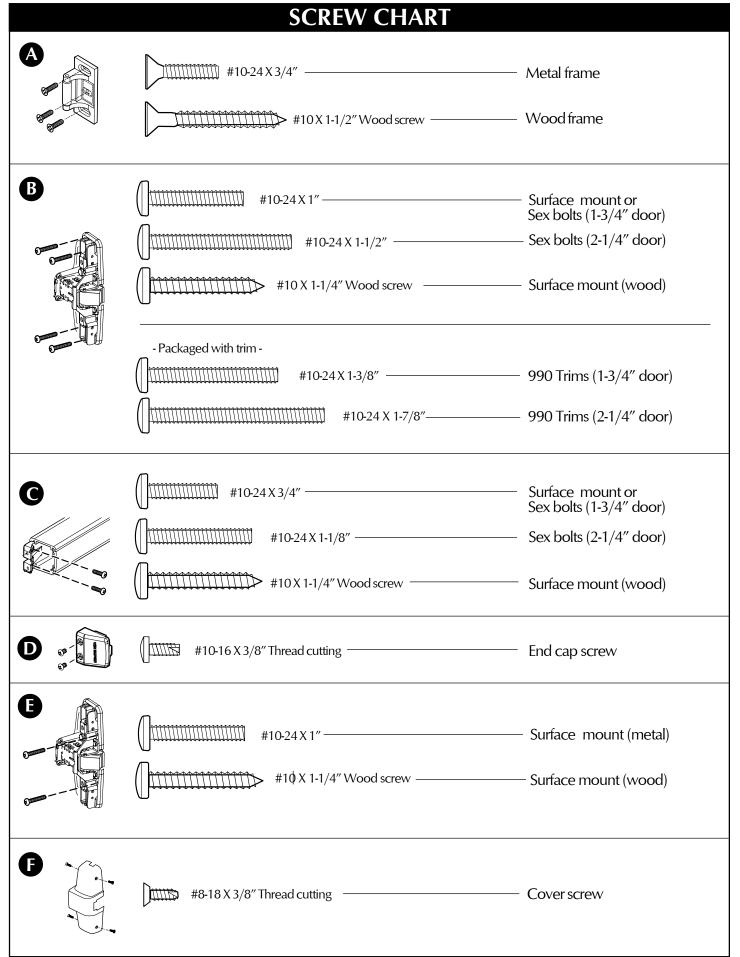
4,466,643

4,741,563

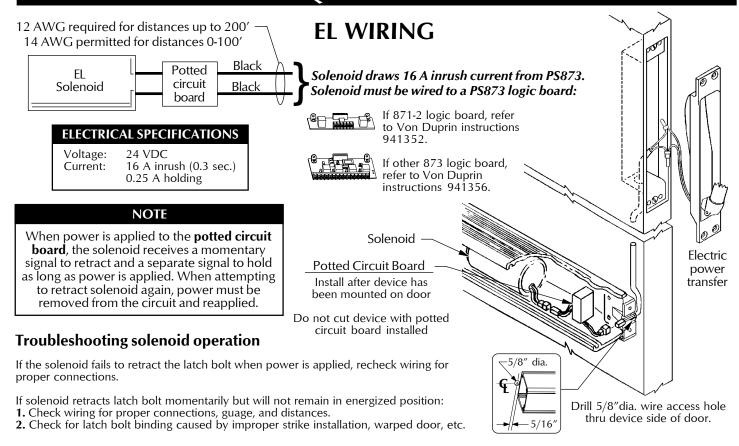
3,767,238

3,854,763

4,167,280

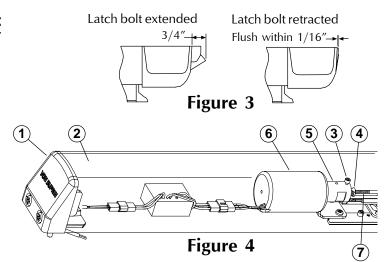


#### **OPTIONAL EQUIPMENT - CONTINUED**



#### **EL ADJUSTMENT PROCEDURE**

- **A.** Check for proper function:
  - 1. Make sure device is not dogged.
  - **2.** Depress pushbar and make sure latch bolts retracts and extends fully (see Figure 3).
  - 3. Electrically energize solenoid and hold.
  - **4.** Check latch bolt(s) for full retraction (must clear strike (see Figure 3).
  - **5.** Release solenoid and check latch bolt extension (see Figure 3).
  - **6.** Continue to Section B if device does not function electrically.
- B. Determine if dogging rod adjustment is too long or short:1. The dogging rod adjustment is too long if latch bolt
- does not retract and clear strike (see Section C for adjustment).
- 2. The dogging rod adjustment is too **short** if latch bolt does not fully extend **or** latch bolt fully retracts but solenoid releases while energized (see Section D for adjustment).
- **C.** Adjust solenoid if dogging rod is too **long** (see Figure 4):
- 1. Remove end cap ① and dogging cover ②.
- **2.** Loosen cap screw ③.
- **3.** Hold plunger ⑤ depressed in solenoid housing ⑥. **Note:** Push hard against plunger ⑤ to overcome an internal spring in solenoid housing ⑥.
- **4.** Turned threaded bushing **(a)** in to shorten dogging rod **(2)** so latch bolt fully retracts.
- **5.** Tighten cap screw ③.
  - Note: Cap screw ③ must be tightened against flat on threaded bushing ④. Apply a few drops of Loc-Tite 222 to threads of cap screw ③.
- **6.** Replace dogging cover ② and end cap ①.
- 7. Return to Section A to check for proper function.



- **D.** Solenoid adjustment if dogging rod adjustment is too **short** (see Figure 4):
  - 1. Remove end cap ① and dogging cover ②.
  - 2. Loosen cap screw 3.
  - 3. Hold plunger S depressed in solenoid housing S.
  - 4. Turn threaded bushing @ out to lengthen dogging rod ⑦ so plunger ⑤ just bottoms in solenoid housing ⑥ and latch bolt is fully retracted. Note: Push hard against plunger ⑤ to overcome an internal spring in solenoid housing ⑥.
  - **5.** Tighten cap screw ③.

Note: Cap screw ③ must be tightened against flat on threaded bushing ④. Apply a few drops of Loc-Tite 222 to threads of cap screw ③.

- **6.** Replace dogging cover ② and end cap ①.
- 7. Return to Section A to check for proper function.

2

#### **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.

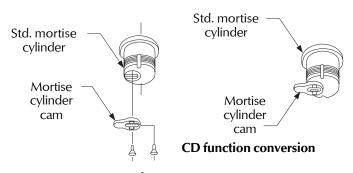
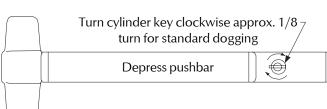


Figure 1

#### **Dogging procedure**



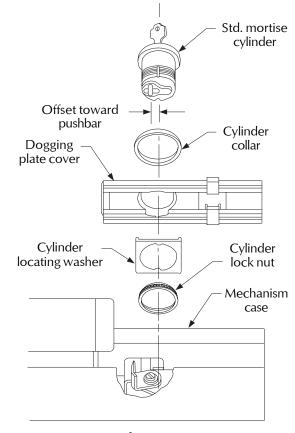
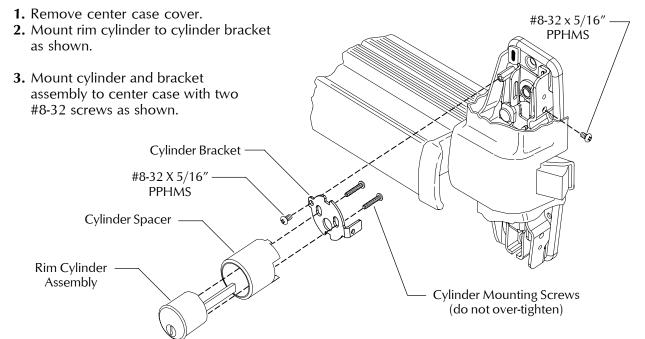


Figure 2

#### 99-2 (DOUBLE CYLINDER)



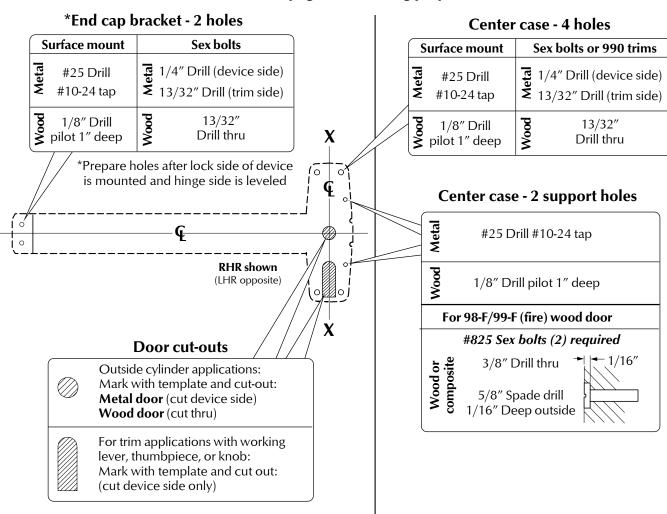
#### PREPARATION CHART

#### Go to instructions on next page before using preparation chart

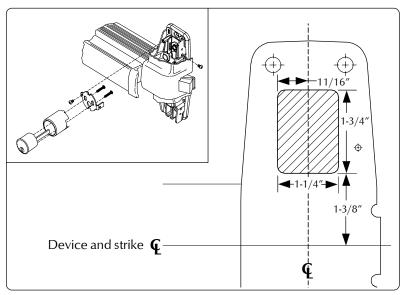
13/32"

Drill thru

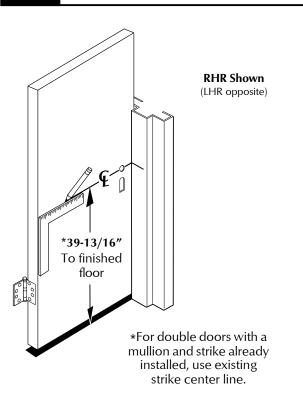
3



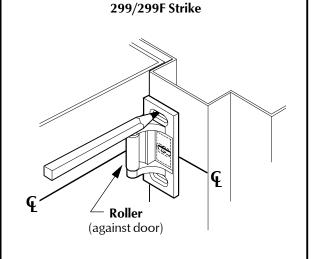
#### CUT-OUT FOR 99-2 "DOUBLE CYLINDER" OPTION



### Draw horizontal device and strike center line ( $\varphi$ ).



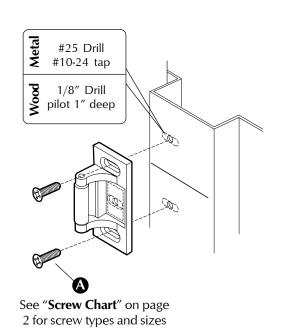
### Align strike on **Q** and mark the two slotted holes.



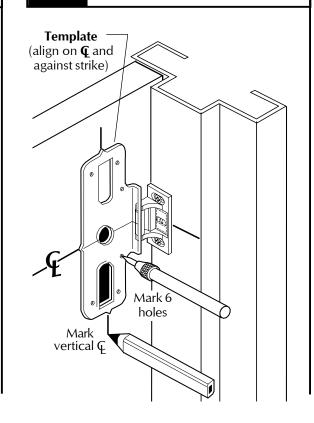
For **499F strike**, see back cover of this instruction.

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

#### 299/299F Strike



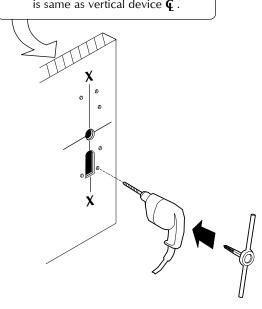
# Position template against strike and on **Q** and mark door.



### Prepare lock side of door for device and trim.

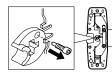
See "**Preparation Chart**" on page 3 for drill, tap, and cut-out information

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



# If using an outside cylinder, check NL drive screw and install tailpiece guide.

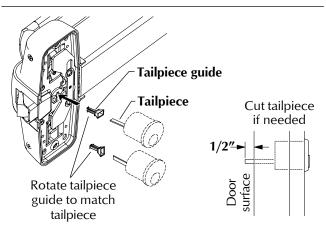
#### **NL** drive screw



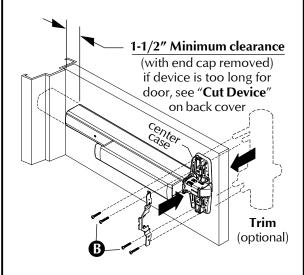
Note: When the NL drive screw is left in back of device, the outside cylinder will function only as a Night Latch. When installing trim that has a functional lever, knob, or thumb piece AND an outside cylinder to lock and unlock the trim, remove NL drive screw from back of device.

DO NOT remove NL drive screw for the following application: NL, EO, DT, TP-2, L-2, and K-2 trims or with 98/99-2 (double cylinder).

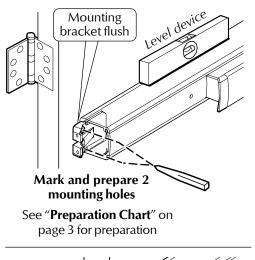
With "BE" trim, device may need rehanded. Look for instructions on back of trim.

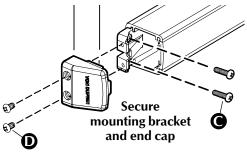


# Install trim (if using) and secure device center case to door.

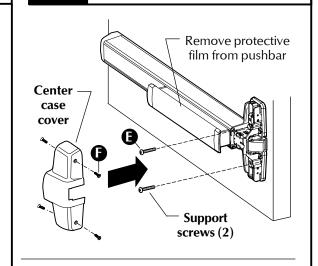


# Install mounting bracket and end cap.

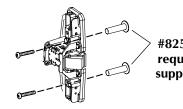




# Install 2 support screws, and center case cover.

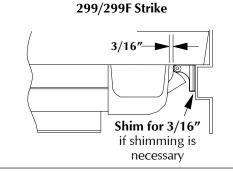


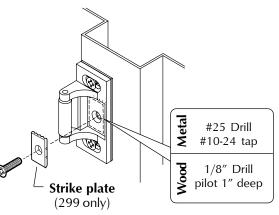
For **98F/99F (fire rated)** devices on wood or composite door:



#825 sex bolts required for 2 support screws

### Adjust and secure strike.





4