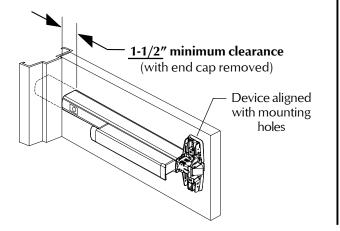
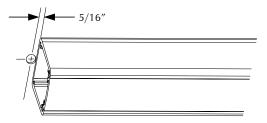
### **CUT DEVICE**

Measure amount to cut off device.

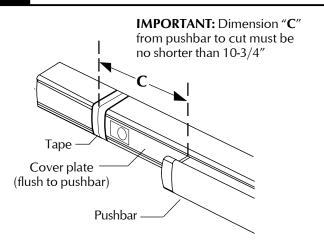


2 Check door for wire access hole.

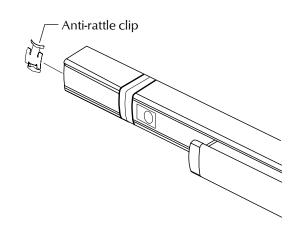
If 5/8" diameter wire access hole has been pre-drilled in door, mark device to be cut 5/16" from center of hole. If access hole is not already present, go to step 3.



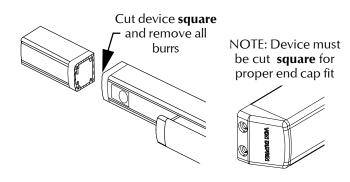
Tape and mark area being cut.



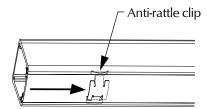
A. Remove anti-rattle clip.



**5** Cut device <u>square.</u>



Slide anti-rattle clip into device.





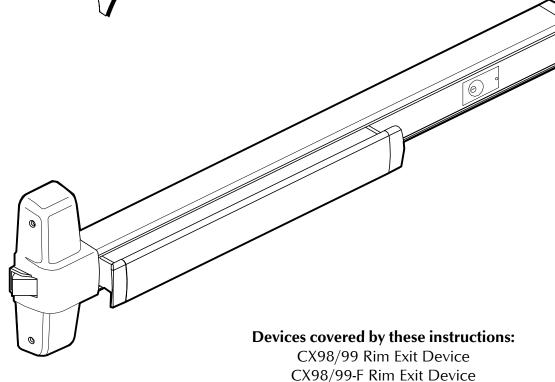
911380-00

## **VON DUPRIN**®

### **Installation Instructions**

## CX98/99 Series Rim Device





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

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

3,767,238 4,427,223 3,854,763 4,437,693 4,167,280 4,466,643 4,741,563

This product is covered by the following patent numbers:

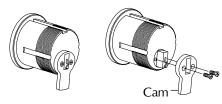


### **SCREW CHART** #10-24 X 3/4" — Metal frame #10 X 1-1/2" Wood screw — Wood frame B Surface mount or #10-24 X 1" -Sex bolts (1-3/4" door) Sex bolts (2-1/4" door) #10-24 X 1-1/2" -#10 X 1-1/4" Wood screw —— —— Surface mount (wood) - Packaged with trim -#10-24 X 1-3/8" — — 990 Trims (1-3/4" door) #10-24 X 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) #10-16 X 3/8" Thread cutting — — End cap screw Surface mount (metal) #10-24 X 1" --#8-18 $\times$ 3/8" Thread cutting -- Cover screw

### **OPTIONAL EQUIPMENT**

### **CD (CYLINDER DOGGING)**

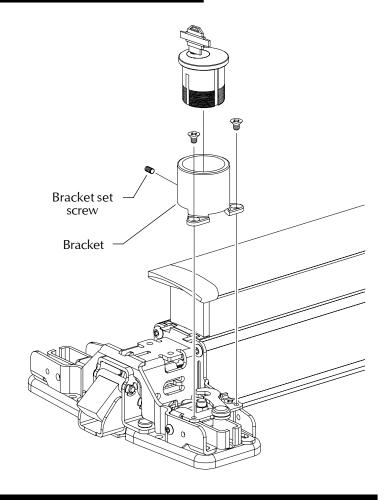
1. Make sure cylinder cam is positioned as shown with key removed. if not positioned as shown remove cylinder cam and reverse.



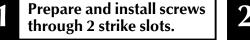
- 2. Remove center case cover from device.
- **3.** Orient cylinder as shown at right and insert cylinder into bracket.
- **4.** Tighten bracket set screw with a 1/16" hex wrench.
- 5. Secure cylinder bracket to center case.

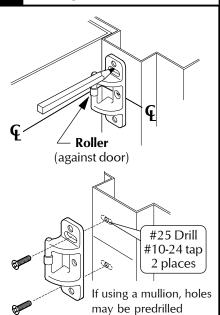
**To dog RHR device,** depress pushbar, insert key, and turn key 180 degrees counterclockwise. **To dog LHR device,** turn key clockwise.

**To undog RHR device,** insert key and turn key 180 degrees clockwise. **To undog LHR device,** turn key counterclockwise.

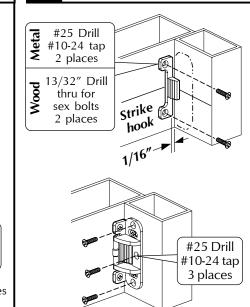


### 499F STRIKE INSTALLATION

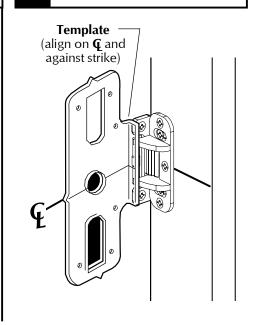




### 2 Install strike hook and additional strike screws.



### **3** Template aligns as shown.



2

### **PREPARATION CHART**

#### Go to instructions on pages 4-5 before using preparation chart

#### \*End cap bracket - 2 holes

S	Surface mount	Sex bolts				
Metal	#25 Drill #10-24 tap	1/4" Drill (device side) 13/32" Drill (trim side)				
Wood	1/8" Drill pilot 1" deep	N 13/32" Drill thru	X			
	*Prepare holes after lock side of device is mounted and hinge side is leveled					
<u> </u>						

**Door cut-outs** 

Outside cylinder applications:

**Metal door** (cut device side)

lever, thumbpiece, or knob: Mark with template and cut out:

**Wood door** (cut thru)

(cut device side only)

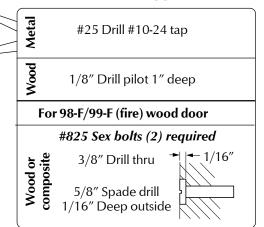
Mark with template and cut-out:

For trim applications with working

#### Center case - 4 holes

Surface mount		Sex bolts or 990 trims		
Metal	#25 Drill #10-24 tap	a ·	4" Drill (device side) /32" Drill (trim side)	
Wood	1/8″ Drill pilot 1″ deep	Wood	13/32" Drill thru	

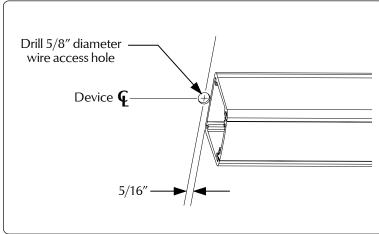
#### **Center case - 2 support holes**



#### **/**/ {

RHR shown (LHR opposite)

### Chexit wiring access hole



# NOTE TO OWNER

This product is not intended to detain or prevent exit, but to delay egress for not more than 15 seconds in accordance with NFPA 101 requirements for "special locking arrangements".

### **A** WARNING

The signal switch inside the device is pre-set at the factory. Tampering with this switch can cause the basic exit features of this device to fail in an emergency.

### **A** CAUTION

There are no user serviceable parts in the electronic module or in the delay mechanism. Consult factory for repair of these components.

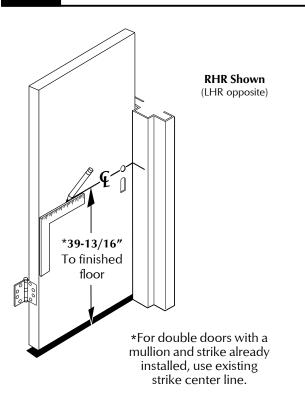
#### **ATTENTION!**

- 1. The electronic delay module is located in a separate box and must be installed by an electrician.
- 2. Check door size carefully before cutting device and cover. Refer to back page of instruction for dimensions.
- 3. Fire devices on wood/composite doors require the use of #825 sex bolts when outside trim is used (see step 9).
- 4. Use all six mounting screws to secure center case to door (see "Preparation Chart" on page 6).
- 5. Device should be tested periodically for proper function and moving parts should be lubricated semiannually.

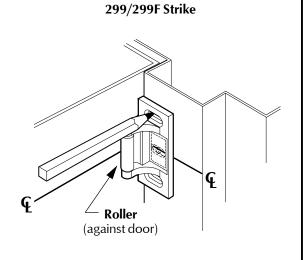
\*\*Give these instructions to building owner\*\*

6

## Draw horizontal device and strike center line (\$\mathcal{G}\$).



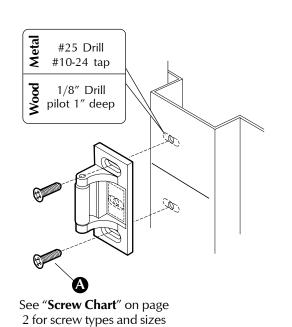
## Align strike on **©** and mark the two slotted holes.



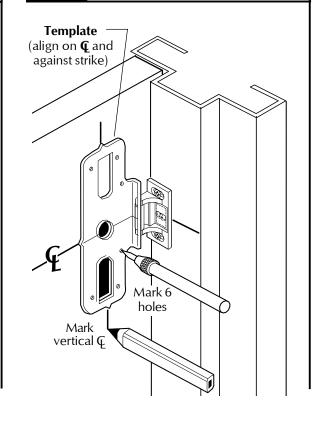
For **499F strike**, see page 7 of this instruction.

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

#### 299/299F Strike



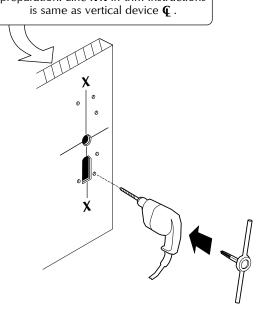
# Position template against strike and on **Q** and mark door.



# Prepare lock side of door for device and trim.

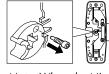
See "**Preparation Chart**" on page 6 for drill, tap, and cut-out information

See trim instructions for pull side door preparation. Line X-X in trim instructions is same as vertical device  $\mathbf{Q}$ .



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

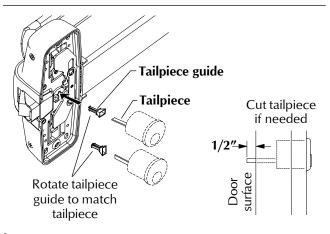
#### NL drive screw



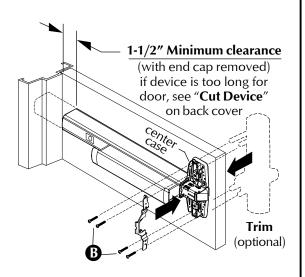
Note: When the NL drive screw is left in back of device, the outside cylinder will function only as a Night Latch. When installing trim that has a functional lever, knob, or thumb piece AND an outside cylinder to lock and unlock the trim, remove NL drive screw from back of device.

DO NOT remove NL drive screw for the following application: NL, EO, DT, TP-2, L-2, and K-2 trims.

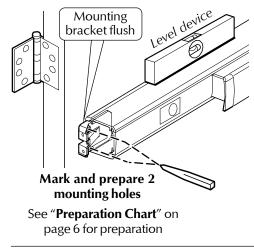
With "BE" trim, device may need rehanded. Look for instructions on back of trim.

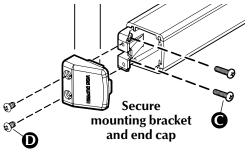


# Install trim (if using) and secure device center case to door.

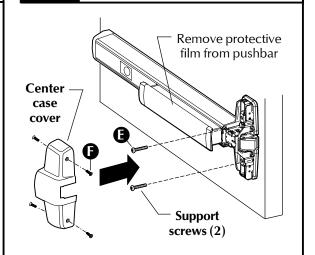


# Install mounting bracket and end cap.

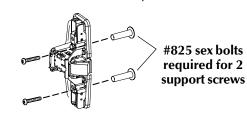




## Install 2 support screws, and center case cover.

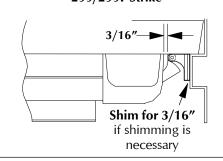


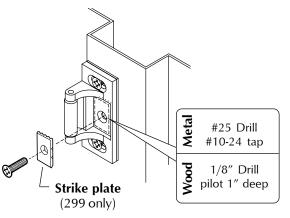
For **CX98F/99F** (**fire rated**) devices on wood or composite door:



### Adjust and secure strike.

#### 299/299F Strike





 $\mathbf{4}$