



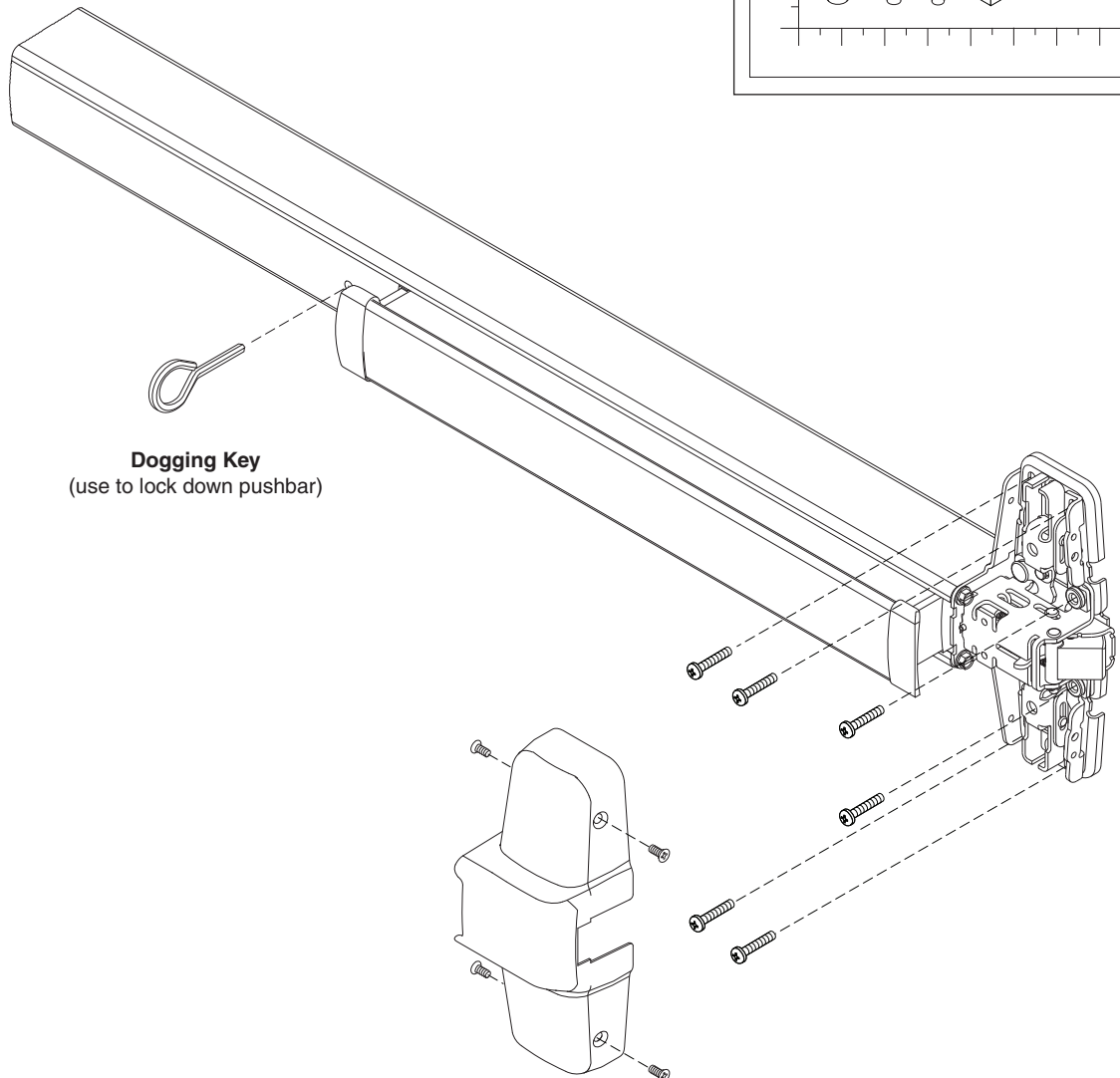
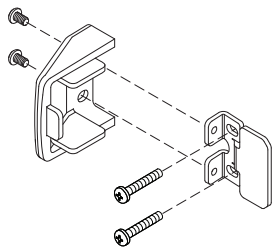
911373-00

98/99

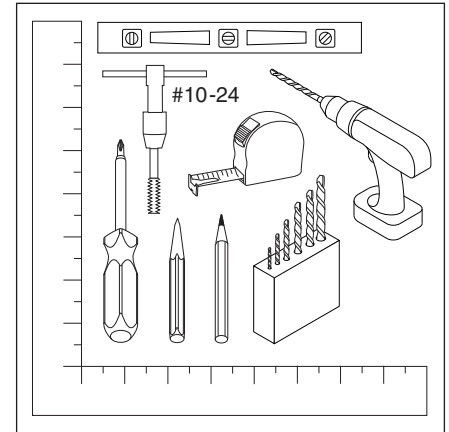
VON DUPRIN®

Rim Exit Device

Installation Instructions



**Dogging Key**  
(use to lock down pushbar)



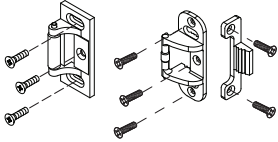
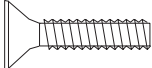
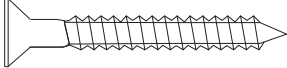
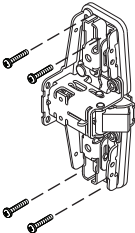
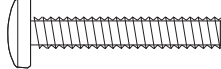
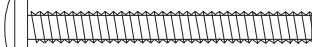
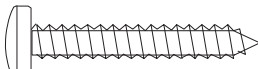
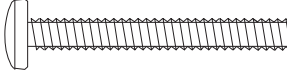
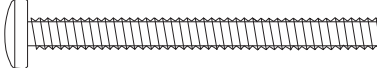
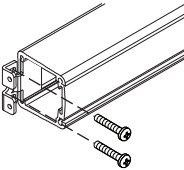
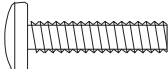
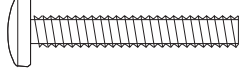
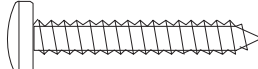
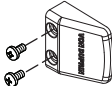
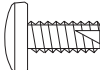
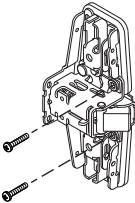
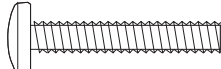
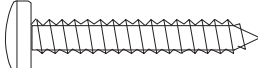
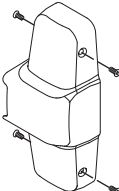

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1-877-671-7011

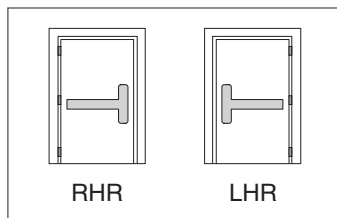
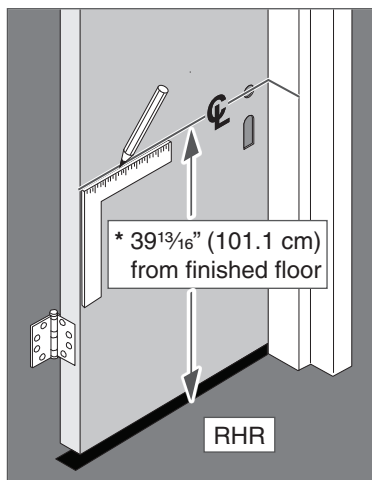
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911373-00 Rev. 11/15-g

## SCREW CHART

Subassembly	Screw		Application
<b>A</b>  299 Strike    499F Strike		#10-24 x 3/4" (19 mm)	Metal frame
		#10 x 1 1/2" (38 mm) Wood screw	Wood frame
<b>B</b> 		#10-24 x 1" (25 mm)	Surface mount or Sex bolts 1 3/4" (44 mm) door
		#10-24 x 1 1/2" (38 mm)	Sex bolts, 2 1/4" (57 mm) door
		#10 x 1 1/4" (32 mm) Wood screw	Surface mount (wood)
	Packaged with 990 Trims: 	#10-24 x 1 3/8" (35 mm)	1 3/4" (44 mm) door, 990 Trim
		#10-24 x 1 7/8" (48 mm)	2 1/4" (57 mm) door, 990 Trim
<b>C</b> 		#10-24 x 3/4" (19 mm)	Surface mount or Sex bolts 1 3/4" (44 mm) door
		#10-24 x 1 1/8" (29 mm)	Sex bolts, 2 1/4" (57 mm) door
		#10 x 1 1/4" (32 mm) Wood screw	Surface mount (wood)
<b>D</b> 		#10-16 x 3/8" (10 mm) Thread cutting	End cap
<b>E</b> 		#10-24 x 1" (25 mm)	Surface mount (metal)
		#10 x 1 1/4" (32 mm) Wood screw	Surface mount (wood)
<b>F</b> 		#8-18 x 3/8" (10 mm) Thread cutting	Center case cover

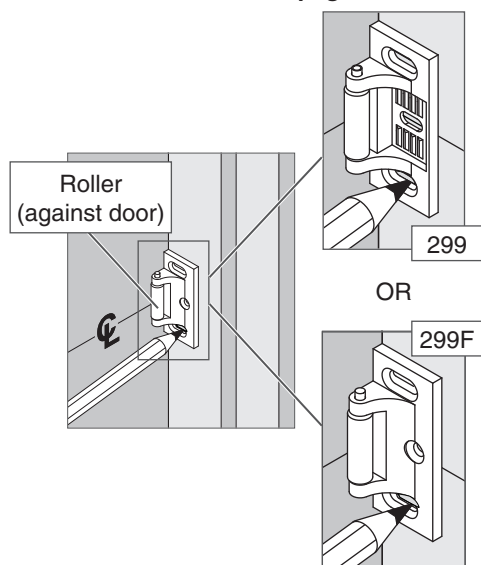
## 1 Draw horizontal device and strike center lines (☿).



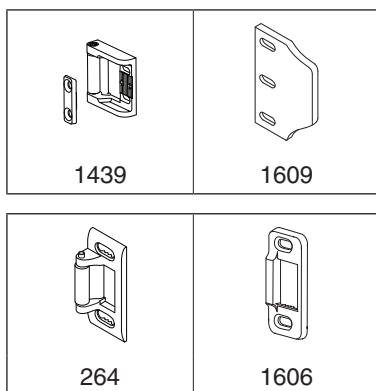
\* For double doors with a mullion and strike already installed, use existing strike center line.

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

❗ For 499F strike installation, see page 6.

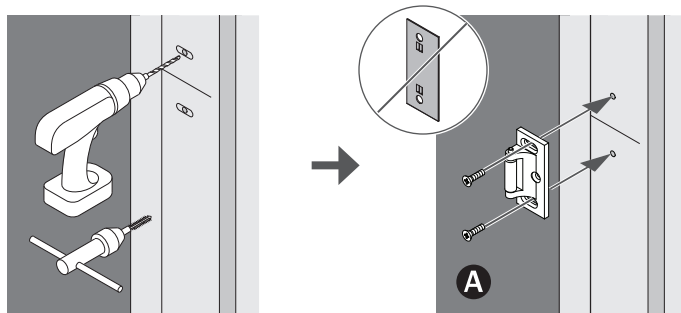


❗ For more information on the strikes shown below, go to <http://w3securitytechnologies.com> and look for the Support area for Von Duprin installation instructions.



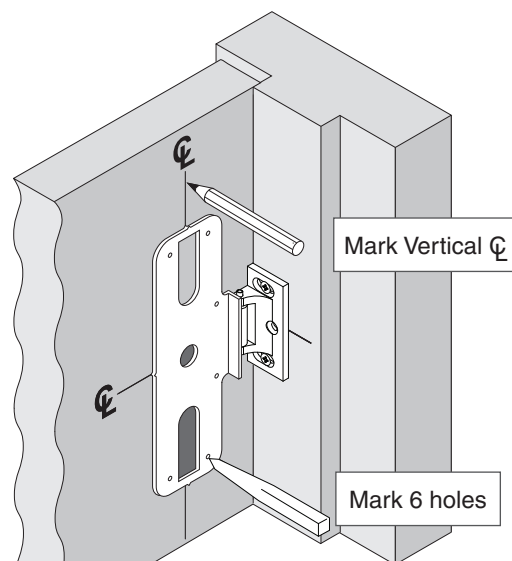
## 3 Prepare 2 holes and install 2 screws.

❗ See "Screw Chart" on previous page for screw types and sizes

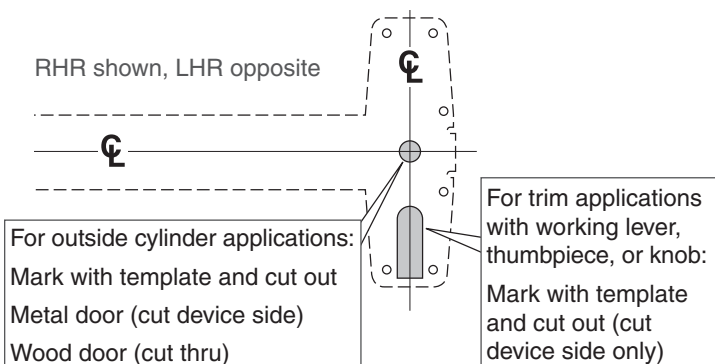


Metal	#25	#10-24
OR		
Wood	1/8" (3 mm) x 1" (25 mm) deep	

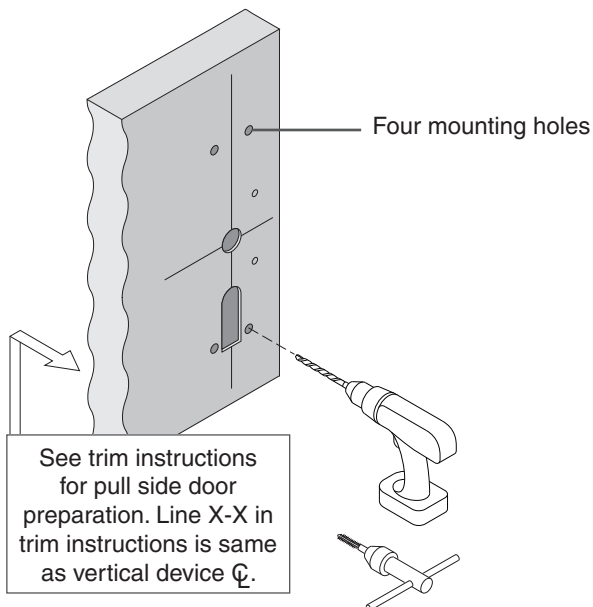
## 4 Position template against strike and on ☿ and mark door.



## 5 If necessary, prepare cutouts for cylinder and trim.

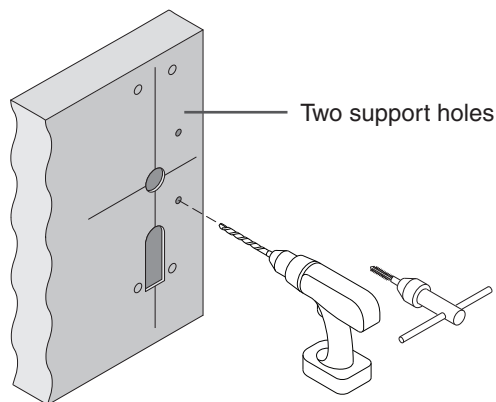


## 6 Prepare 4 center case mounting holes.



	SURFACE MOUNT	OR	SEX BOLTS or 990 TRIMS
METAL	#25		1/4" (6 mm) Device Side
	#10-24		13/32" (10 mm) Trim Side
WOOD	1/8" (3 mm) x 1" (25 mm) Deep		13/32" (10 mm) Drill Thru

## 7 Prepare 2 center case support holes.

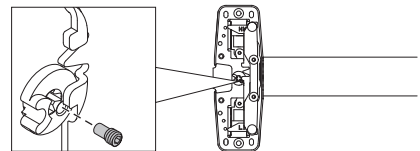


	METAL	OR	WOOD
	98/99 and 98/99-F		98/99
	#25		1/8" (3 mm) x 1" (25 mm) Deep
	#10-24		98/99-F
			#825 Sex bolts (2) required
			1/16" (2 mm) 3/8" (10 mm)
			Exterior
			5/16" (16 mm)

## 8 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.

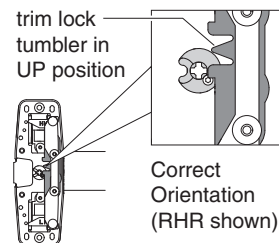
996L	696TP	990TP
996K	697TP	

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

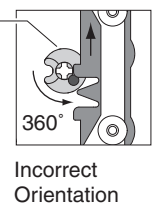
NL, EO, DT trims and 98/99-2 double cylinder devices (i.e. TP-2, L-2, and K-2).

*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.

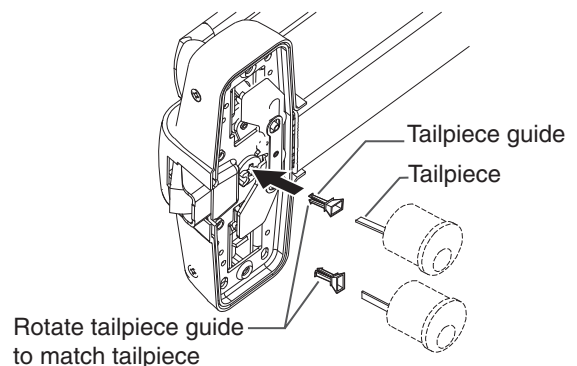


If necessary, remove drive screw and rotate cam until trim lock tumbler is in UP position, then reinstall drive screw

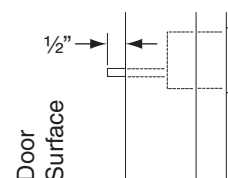


## 9 If using a cylinder with a tailpiece, prepare device and cylinder.

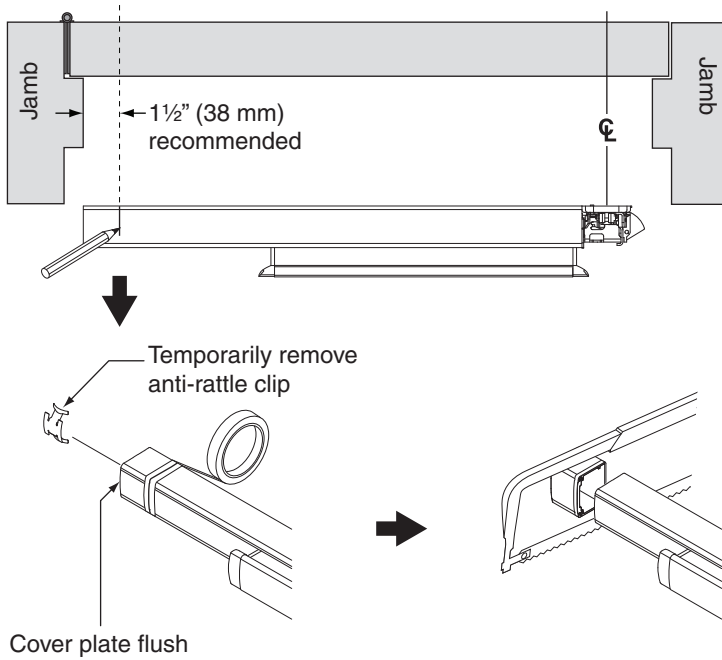
### 9a Install tailpiece guide.



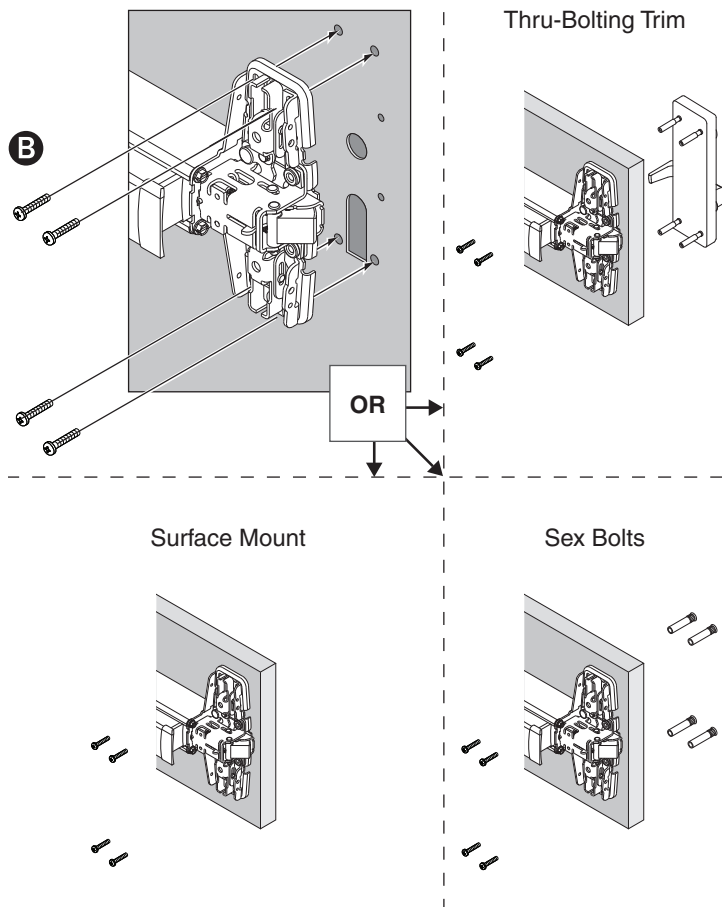
### 9b Cut tailpiece as needed.



## 10 If necessary, cut device.

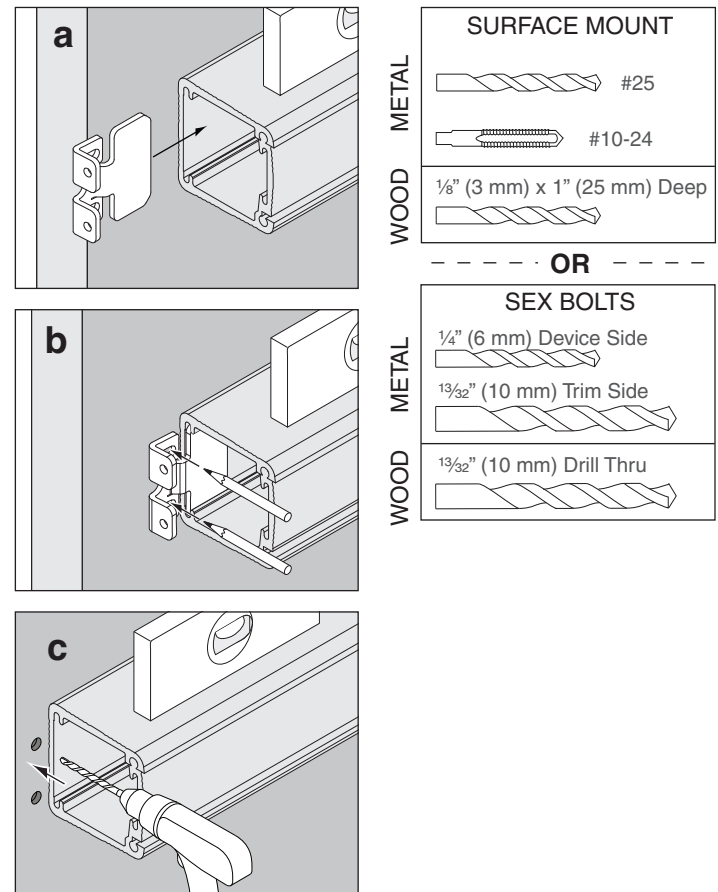


## 11 Attach center case to door.

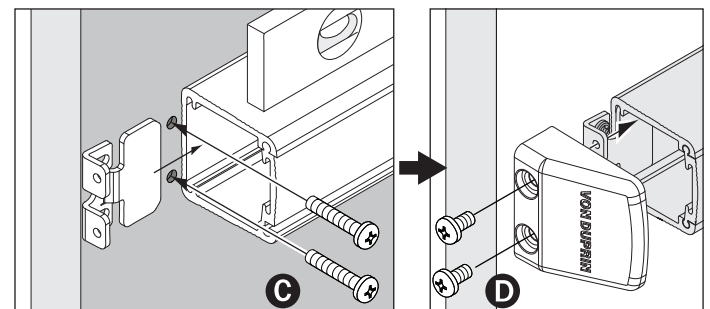


## 12 Mark and prepare two (2) holes.

① Prepare holes after lock side of device is mounted and hinge side is leveled.

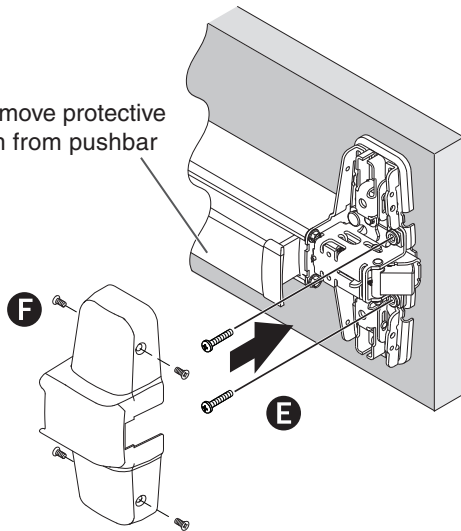


## 13 Install end cap bracket and end cap.



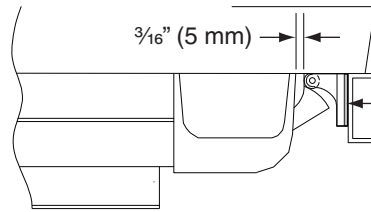
## 14 Install required support screws and center case cover.

Remove protective film from pushbar

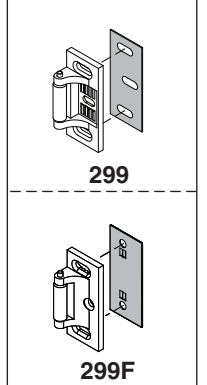


## 15 Adjust strike as needed.

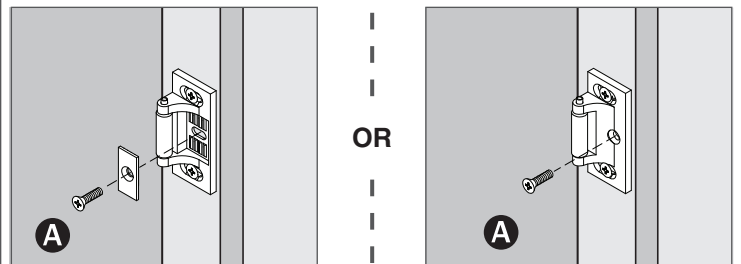
### 299/299F Strike



Shim as needed

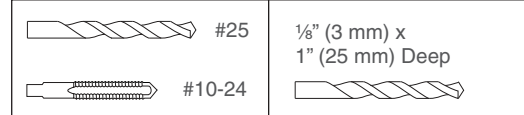


## 16 Install strike support screw.



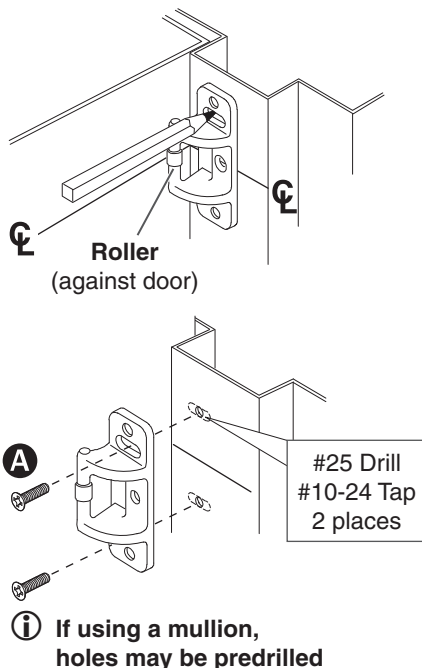
METAL

WOOD

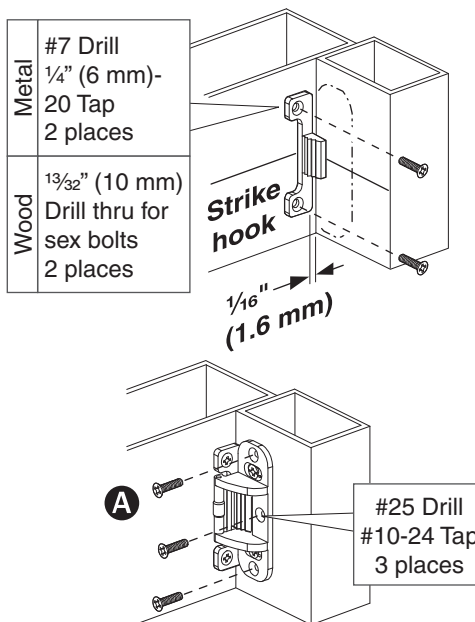


## 499F STRIKE INSTALLATION

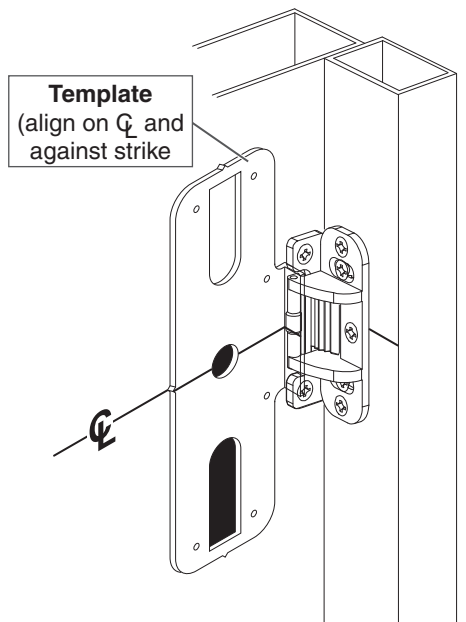
1. Prepare and install screws through two strike slots.



2. Install strike hook and additional strike screws.

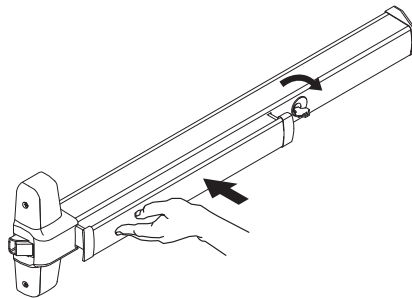
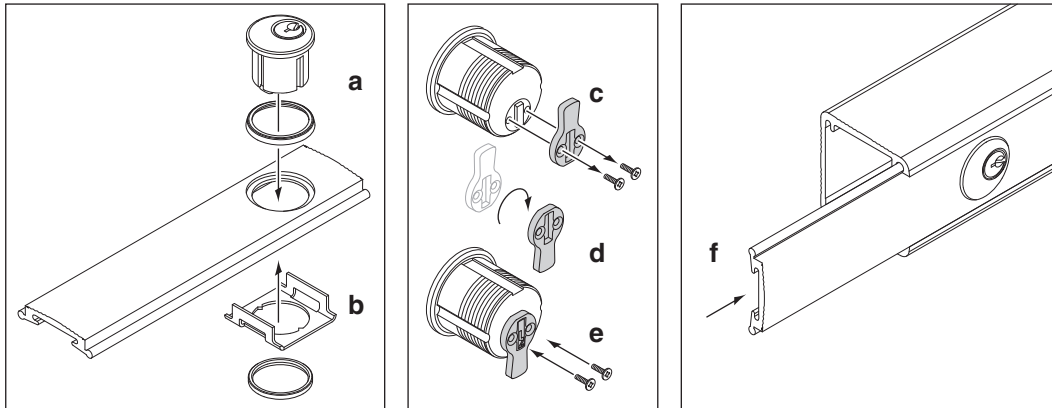


3. Template aligns as shown.

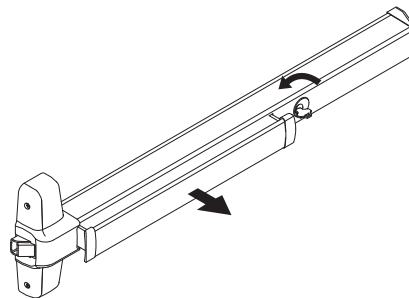


## OPTIONAL EQUIPMENT

### CD (Cylinder Dogging) Option



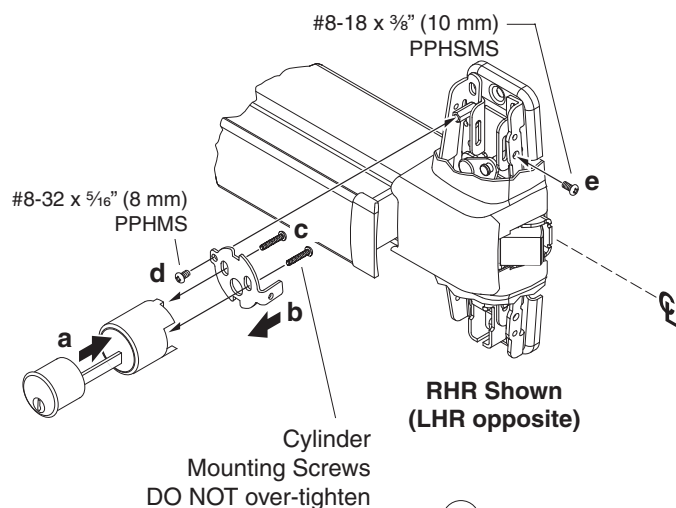
Dog



Undog

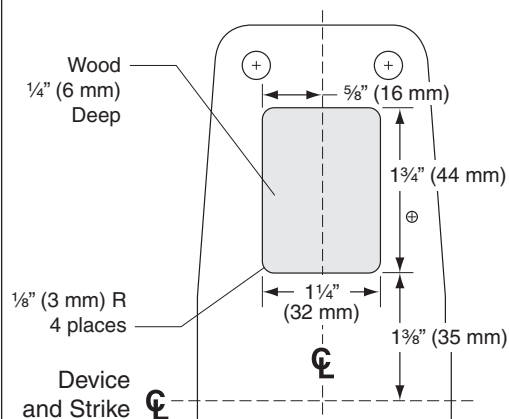
## OPTIONAL EQUIPMENT

### 99-2 (Double Cylinder) Option

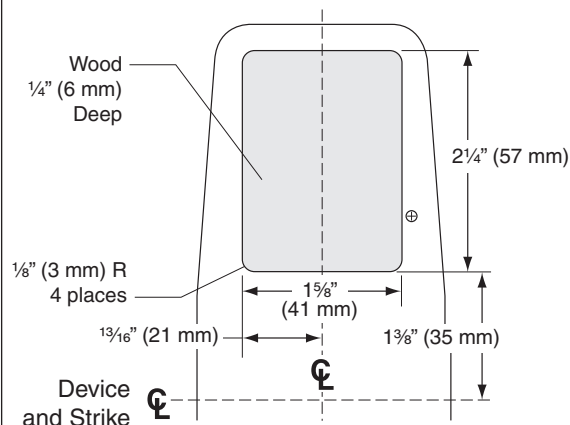



If using the -2SI with a keyed rim cylinder, remove the 2 stop screws from back of device prior to installing the cylinder.

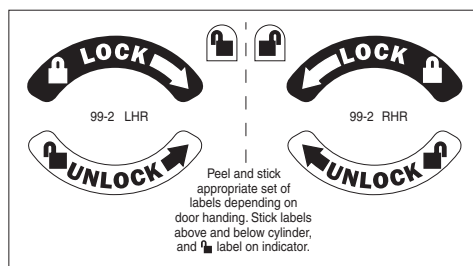
#### Door Cutout for 99-2 "Double Cylinder" Option



#### Door Cutout for 99-2SI "Double Cylinder" Option



For 98/99-2SI models with Classroom Security Indicator, apply supplied labels above and below cylinder to match door handing, and  label on indicator.

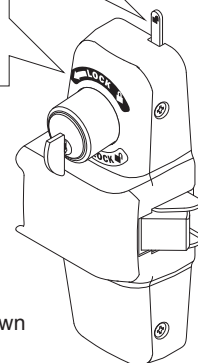


#### Manually affix the label:

Ensure surface is clean of dirt, dust, or oils. Clean with alcohol if necessary.

Peel the label from the paper backing and apply to the surface. Minimize handling when applying and use pressure to burnish label to surface. The adhesive will require up to 8 hours to achieve the proper bond.

RHR shown







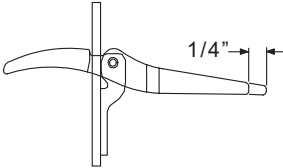
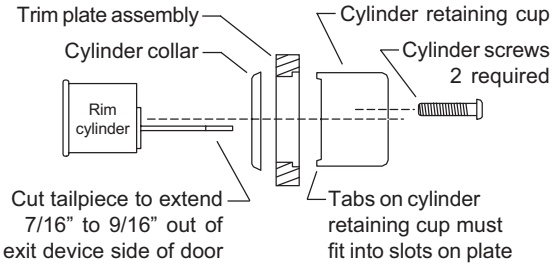
921265-00

990TP/TP-BE/NL

VON DUPRIN®

Trim for Rim and Vertical Rod Devices

Installation Instructions

1	Prepare door for exit device. See exit device instructions for holes, line X-X, and center lines.	4	For TP and TP-BE trim on 1-3/4" thick door, cut 1/4" off hump piece.
2	Prepare door for trim:	 <p>1/4" cutoff required on thumbpiece for TP and TP-BE trim on 1-3/4" thick doors</p>	
2a	Transfer line X-X from inside (exit device side) of door to outside (trim side) of door. Use extra care if edge of door is beveled. Be sure line X-X is parallel to edge of door.		
2b	Locate and prepare holes as shown.		
3	For TP and NL trim, install rim cylinder.	5	Apply trim.
		6	For TP and NL trim, cut cylinder tailpiece to extend 7/16" to 9/16" out of exit device side of door.
		7	Apply exit device, thru-bolt to trim (4 places), and use screw and #12 countersink washer for lower trim mounting stud.

