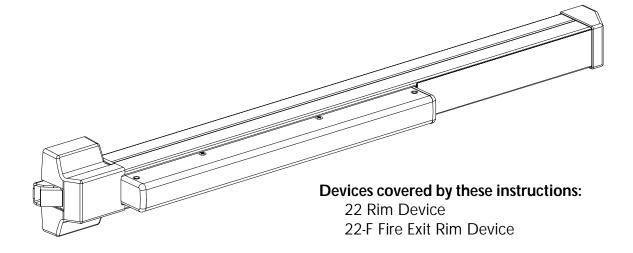
# **VON DUPRIN**<sup>®</sup> Installation Instructions

# 22 Rim Device



# **BEFORE STARTING INSTALLATION**

- 1. Check hardware schedule for strikes, fasteners, and other special requirements.
- 2. Check carton label for trim, strikes, options, and order number.
- **3.** Read all instructions, including instructions provided with any options used: trim, alarm kit, glass bead kit, latch guard kit, and rod guard kit.
- 4. Gather special tools required:
- #10-24 tap #25 drill bit
- 13/32" dia. drill bit
- Hacksaw
- 1/8" dia. drill bit 7/8" dia. hole saw
- 1/4" dia. drill bit

This product is covered by the following patent numbers: 3,767,238 4,167,280 4,427,223 4,437,693 4,466,643





# **GENERAL INFORMATION**

Review pages 2 and 3 so you can identify the hardware and understand the terminology used in the instructions.

See page 10 for the "Metric Conversion Table" if needed.

These exit devices can be installed on the door widths listed below:

<b>Device Size</b>	<b>Code/Standard Requirement</b>	Door Size		
Standard 3' (32")	NFPA101	24-3/4" to 36"		
Standard 4' (44")	NFPA101	30-3/4" to 48"		

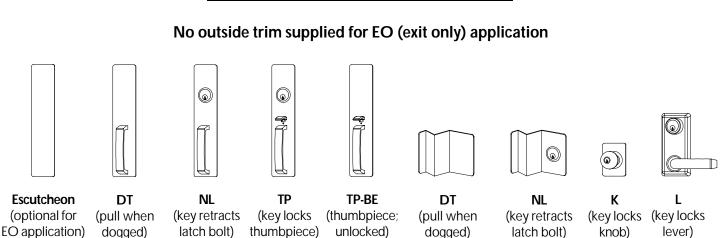
Â	NOTE
Dog	ging panic device during high traffic periods
will in	crease life of device. To dog, depress pushbar
an	d turn hex key one-quarter turn clockwise.

# MAINTENANCE

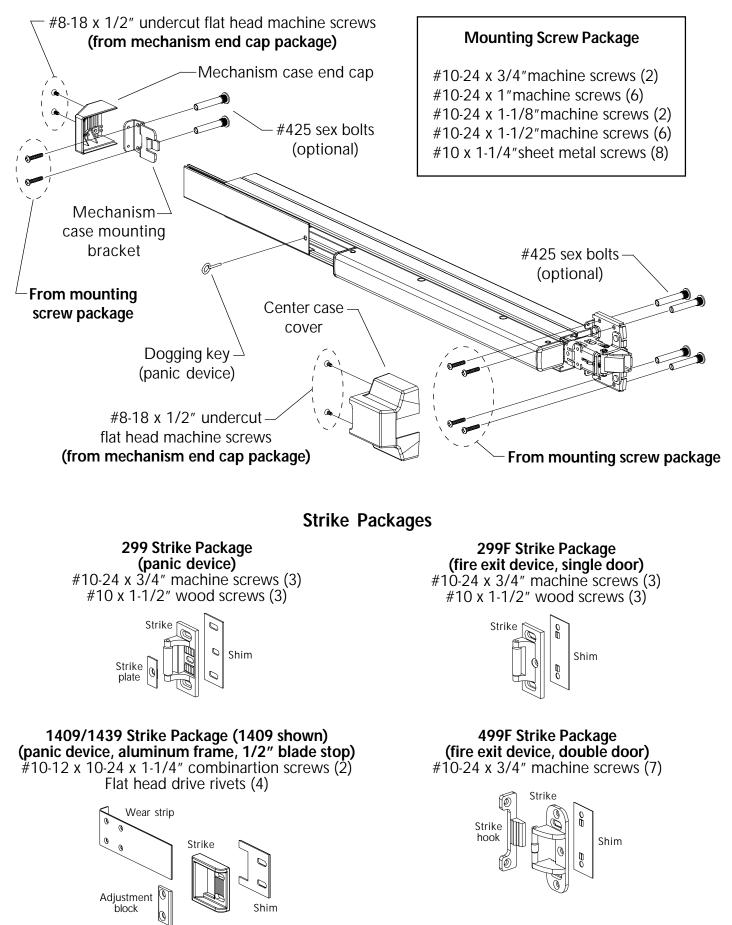
Von Duprin 22 exit devices are designed and built to be maintenance free; however, such factors as installation, severity of use, environmental conditions, and changes in the condition of the door opening may require that maintenance and/or device adjustment be performed. The following guidelines are recommended to the building owner to insure proper device operation:

- 1. Check device operation for smooth operation periodically.
- 2. Check strikes (keeper) and latches to insure they are secure.
- **3.** Check latches and other moving parts for binding or sluggish operation due to dirt or chemical buildup. Clean parts with soap and water and then lubricate with graphite-based or silicone lubricants. Do not use petroleum-based lubricants.

# **OUTSIDE TRIM**



# 22/22-F PARTS LIST



## 1 For single door, prepare frame for 299, 299F, 1409/1439 strike.

- **1.1.** Mark centerline & location as shown in Figure 1-1.
- **1.2. For 299 or 299F strike:** Tape strike template to frame aligned with center line Q as shown in Figure 1-2. Mark and prepare mounting holes per template.

## NOTE

For double door, mullion is already prepared for 499F strike. Skip this step and go to Step #2.

For 1409/1439 strike: Prepare frame as shown in Figure 1-3.

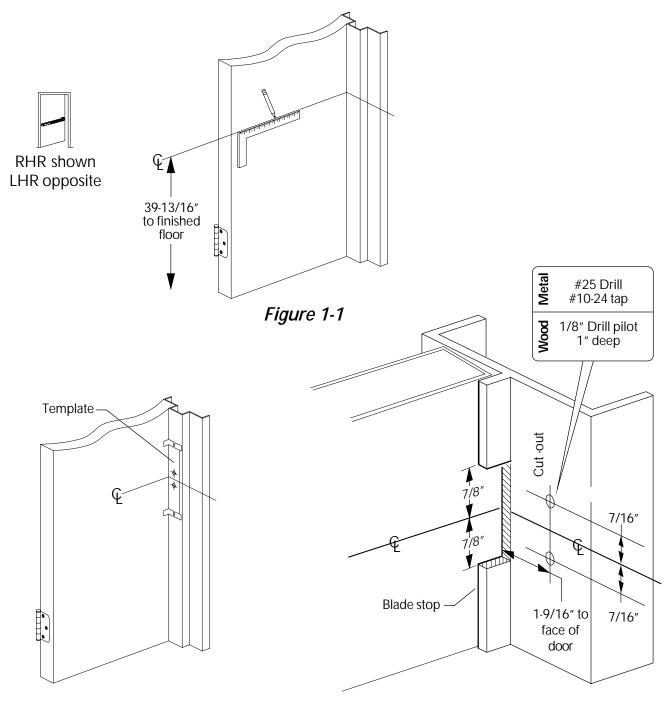
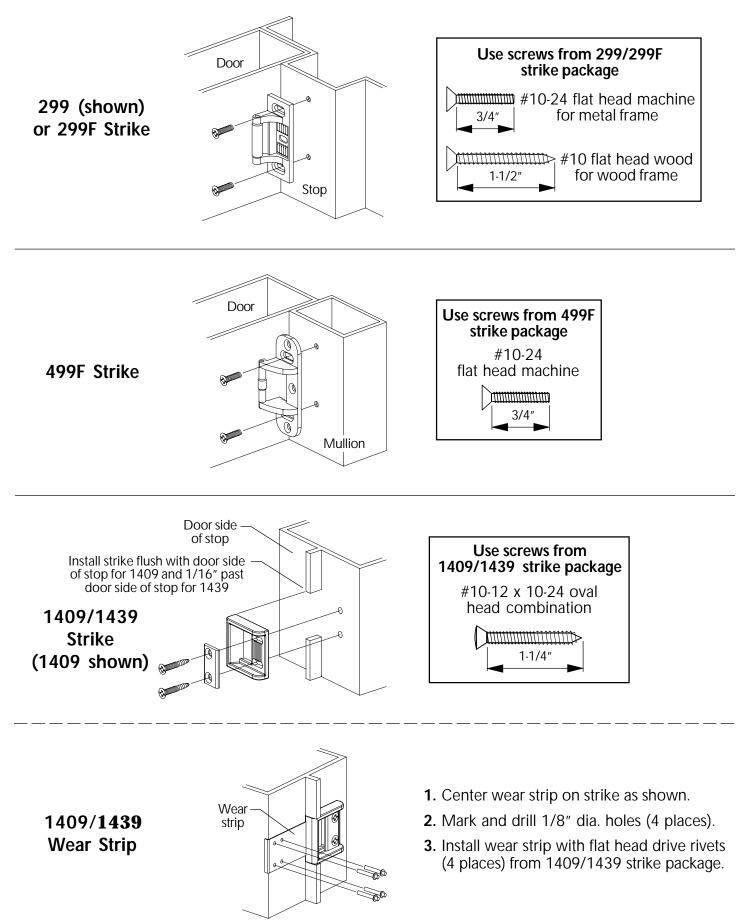


Figure 1-2. 299 or 299F Strike

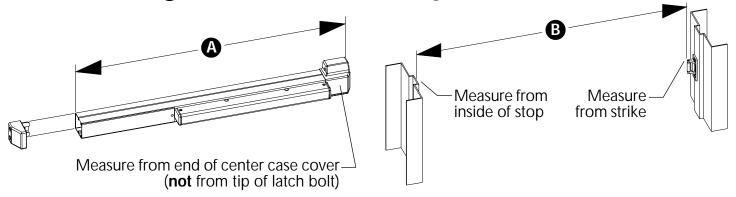
Figure 1-3. 1409/1439 Strike

## Install strike. Use TWO SCREWS ONLY at this time.

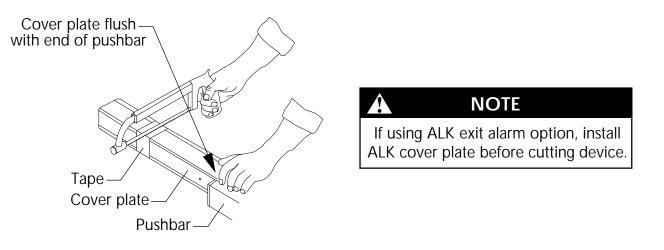


## 3 Cut device if necessary.

**3.1.** Device length **A** must be at least 1-1/2" shorter than **B**.



**3.2.** If necessary, cut device so **A** is at least 1-1/2" shorter than **B**.

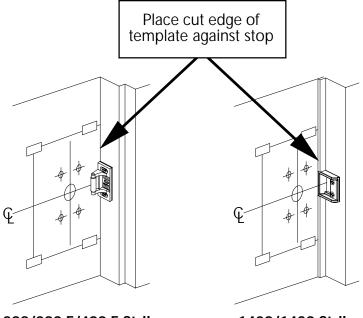


### 4 Prepare door for device.

- **4.1.** Cut center case template for 1409/1439 strike or for 299/299F/499F strike.
- **4.2.** Tape center case template to inside of door aligned with center line  $\mathcal{G}$  as shown.
- 4.3. Mark and prepare holes per template.
- **4.4.** Prepare door for outside trim (see trim instructions).



LHR opposite



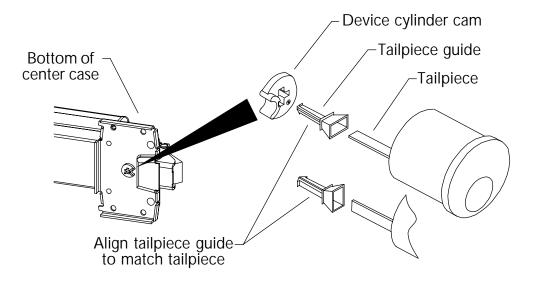
299/299-F/499-F Strike

1409/1439 Strike

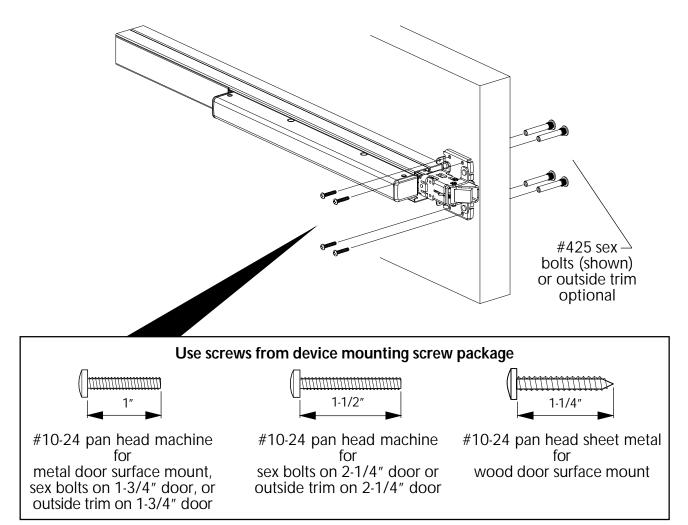
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#### 5 Install device to door at center case.

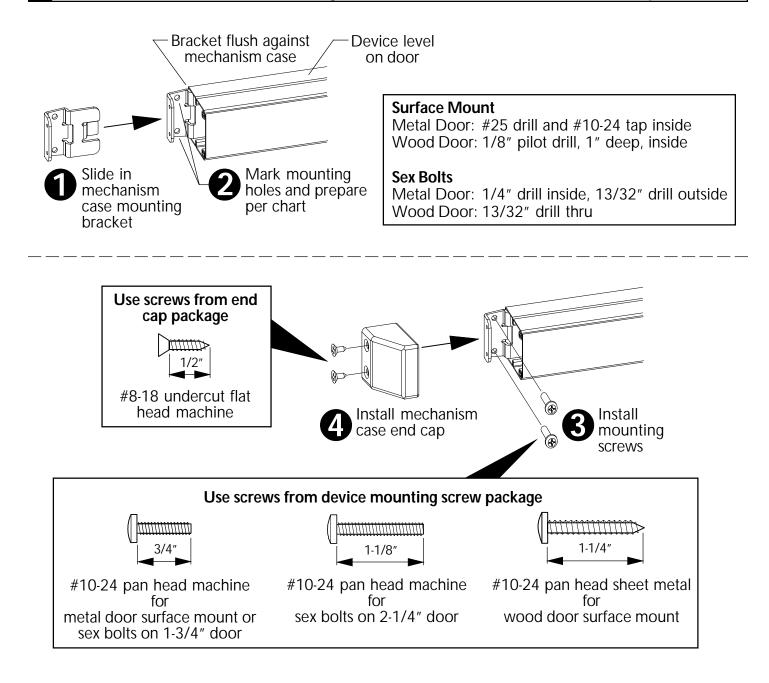
5.1. If using cylinder in trim, install tailpiece guide (packaged with trim) in device.



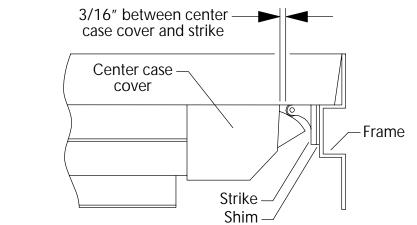
**5.2.** Install device to door at center case.



#### Install mechanism case mounting bracket and mechanism case end cap.

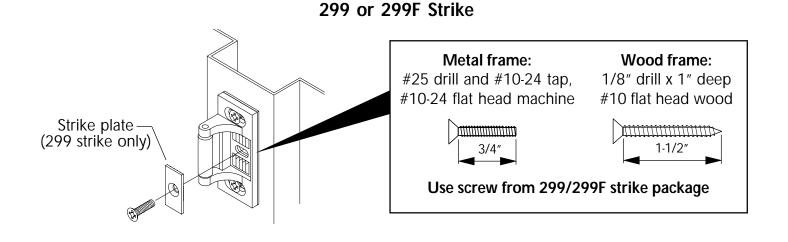


7 If necessary, add strike adjusting shim under strike for 3/16" dimension shown.

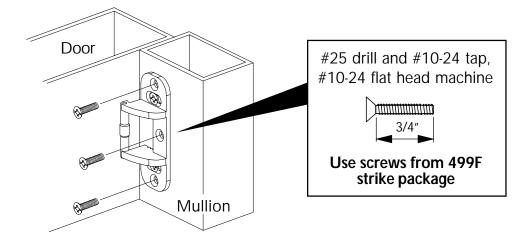


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## 8 Prepare remaining strike mounting holes and install screws.

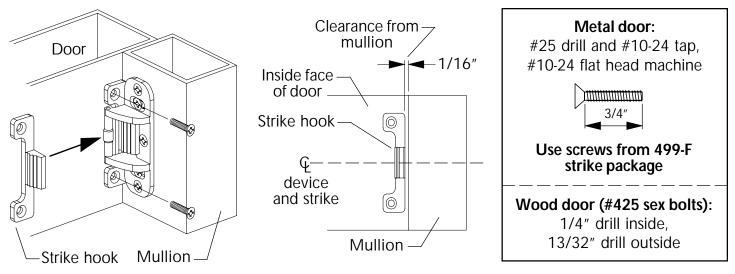






499F Strike Hook

Center strike hook on device 1/16" from mullion.



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Metric Conversion Table												
inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
1/16 1/8 3/16 1/4 13/32	2 3 5 6 10	7/16 1/2 5/8 3/4 7/8	11 13 16 19 22	1 1-1/16 1-1/8 1-1/4 1-1/2	25 27 29 32 38	1-9/16 1-11/16 1-3/4 2-1/4 24-3/4	40 43 45 57 629	30-3/4 32 36 39-11/16 39-13/16		44 48	1118 1219	

