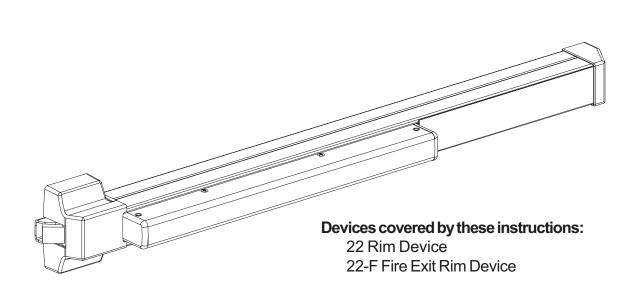
911333-00

Rim Device Installation Instructions



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
- 13/32" dia. drill bit

VON DUPRIN

- #25 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:

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



NOTE

Dogging panic device during high traffic periods will increase life of device. To dog, depress pushbar and turn hex key one-quarter turn clockwise.

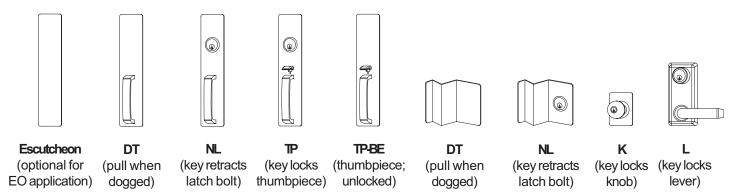
MAINTENANCE

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:

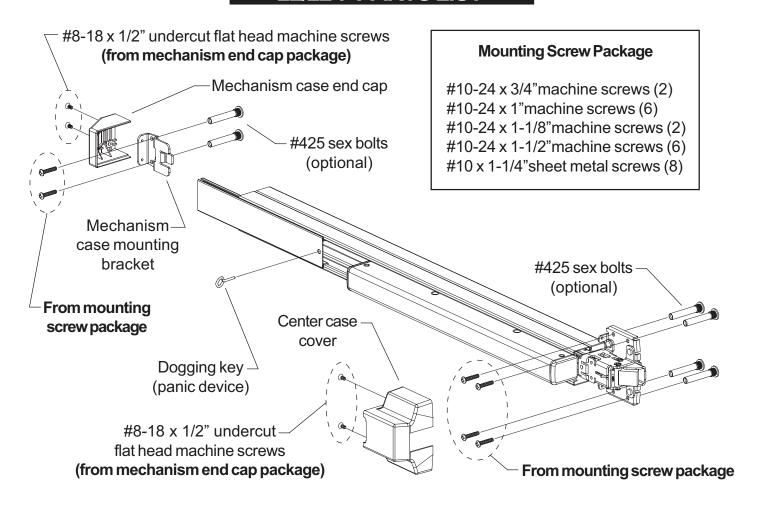
- 1. Check device operation for smooth operation periodically.
- 2. Check strikes (keeper) and latches to insure they are secure.
- **3.** Check latches and other moving parts for binding or sluggish operation due to dirt or chemical buildup. Clean parts with soap and water and then lubricate with graphite-based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

OUTSIDE TRIM

No outside trim supplied for EO (exit only) application



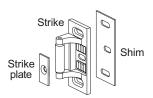
22/22-F PARTS LIST



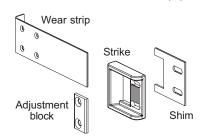
Strike Packages

299 Strike Package (panic device)

#10-24 x 3/4" machine screws (3) #10 x 1-1/2" wood screws (3)

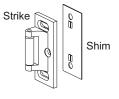


1409/1439 Strike Package (1409 shown) (panic device, aluminum frame, 1/2" blade stop) #10-12 x 10-24 x 1-1/4" combinartion screws (2) Flat head drive rivets (4)

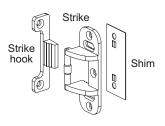


299F Strike Package (fire exit device, single door)

#10-24 x 3/4" machine screws (3) #10 x 1-1/2" wood screws (3)



499F Strike Package (fire exit device, double door) #10-24 x 3/4" machine screws (7)



INSTALLATION

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

- 1.1. Mark centerline Q location as shown in Figure 1-1.
- **1.2.** For 299 or 299F strike: Tape strike template to frame aligned with center line \mathbb{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.

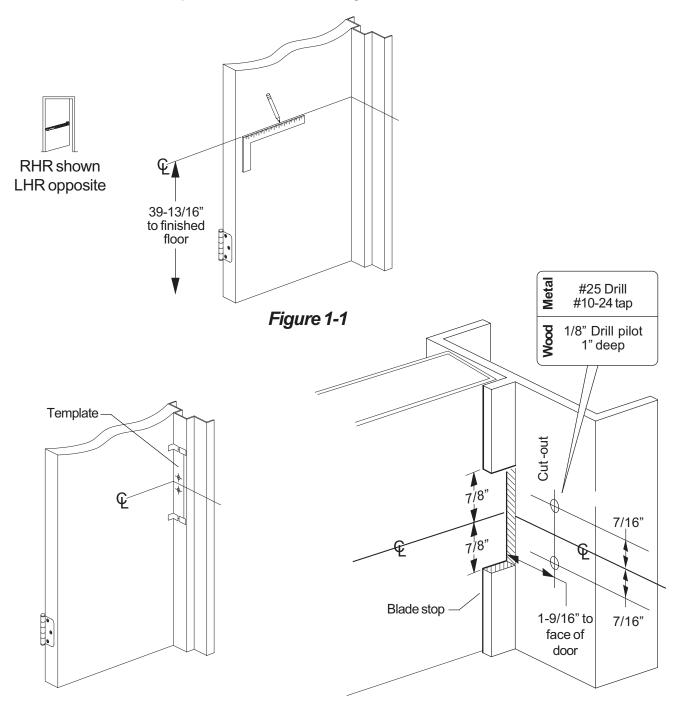
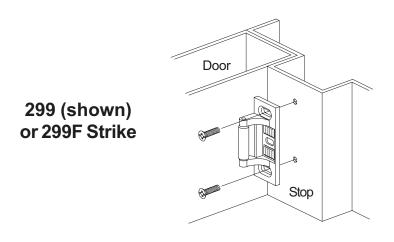
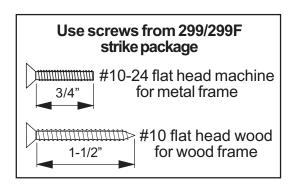


Figure 1-2. 299 or 299F Strike

Figure 1-3. 1409/1439 Strike

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

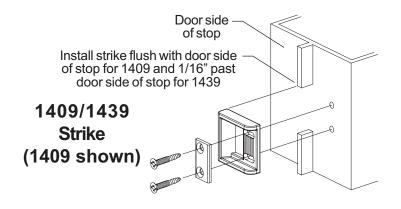


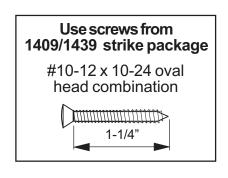


499F Strike

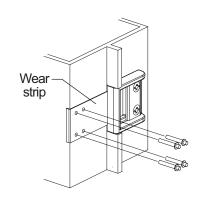
Mullion

Use screws from 499F strike package
#10-24
flat head machine





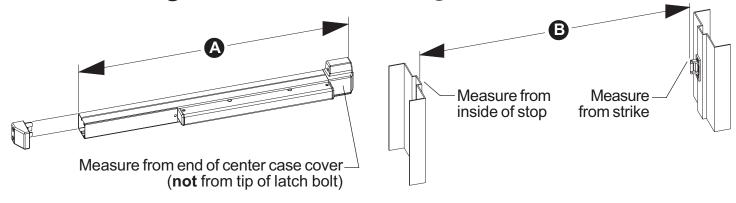
1409/1439 Wear Strip



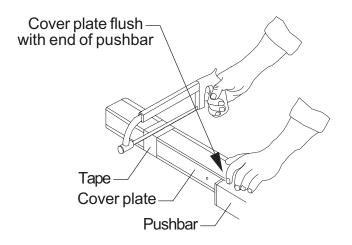
- 1. Center wear strip on strike as shown.
- 2. Mark and drill 1/8" dia. holes (4 places).
- 3. Install wear strip with flat head drive rivets (4 places) from 1409/1439 strike package.

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**.



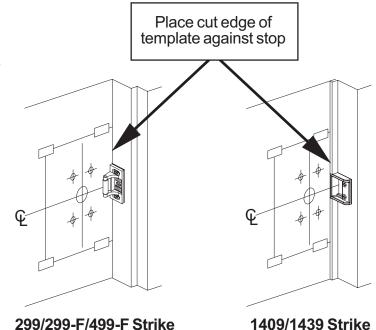
NOTE

If using ALK exit alarm option, install ALK cover plate before cutting device.

4 Prepare door for device.

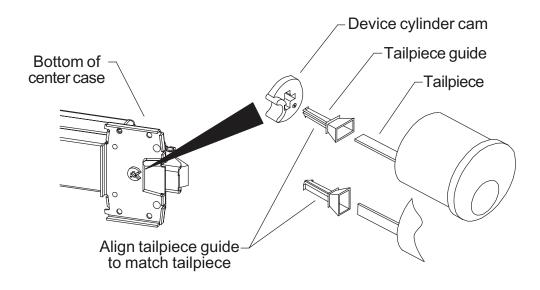
- **4.1.** Cut center case template for 1409/1439 strike or for 299/299F/499F strike.
- **4.2.** Tape center case template to inside of door aligned with center line **G** as shown.
- **4.3.** Mark and prepare holes per template.
- **4.4.** Prepare door for outside trim (see trim instructions).



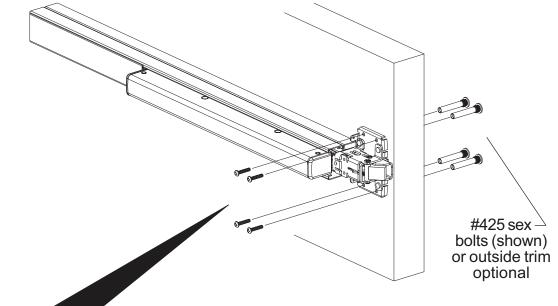


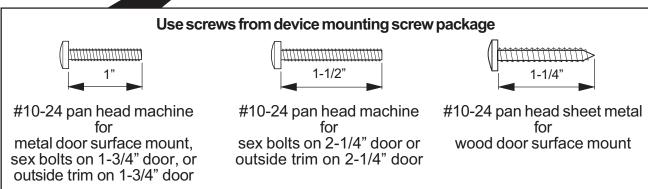
5 Install device to door at center case.

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

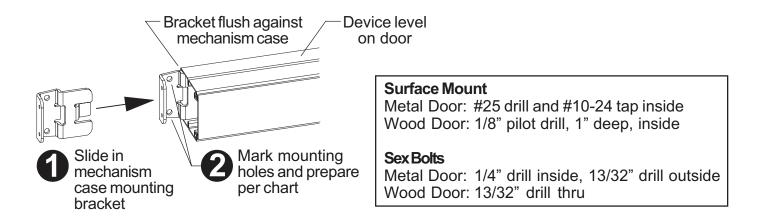


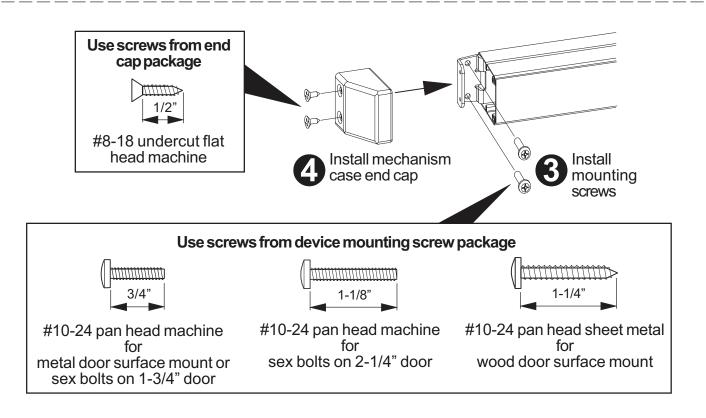
5.2. Install device to door at center case.



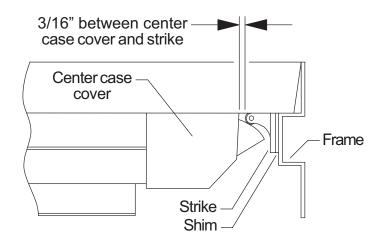


6 Install mechanism case mounting bracket and mechanism case end cap.



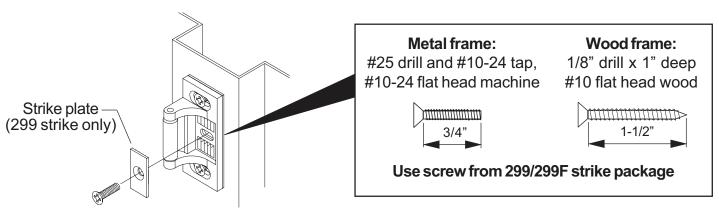


7 If necessary, add strike adjusting shim under strike for 3/16" dimension shown.



8 Prepare remaining strike mounting holes and install screws.

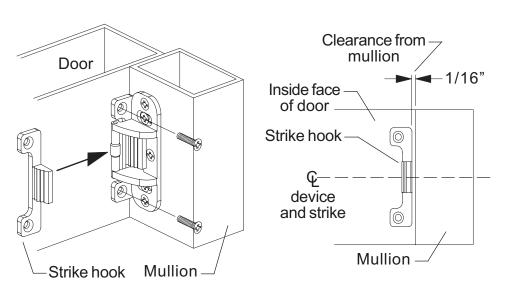
299 or 299F Strike

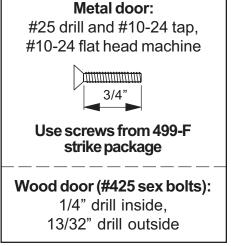


#25 drill and #10-24 tap, #10-24 flat head machine Use screws from 499F strike package

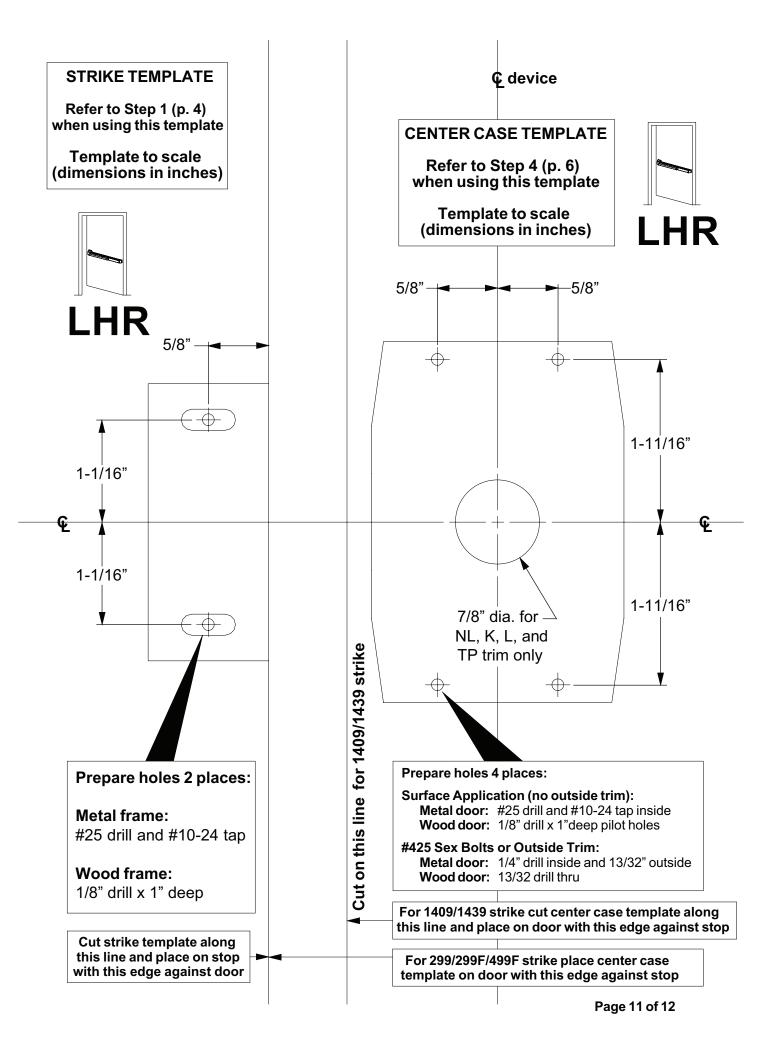
499F Strike Hook

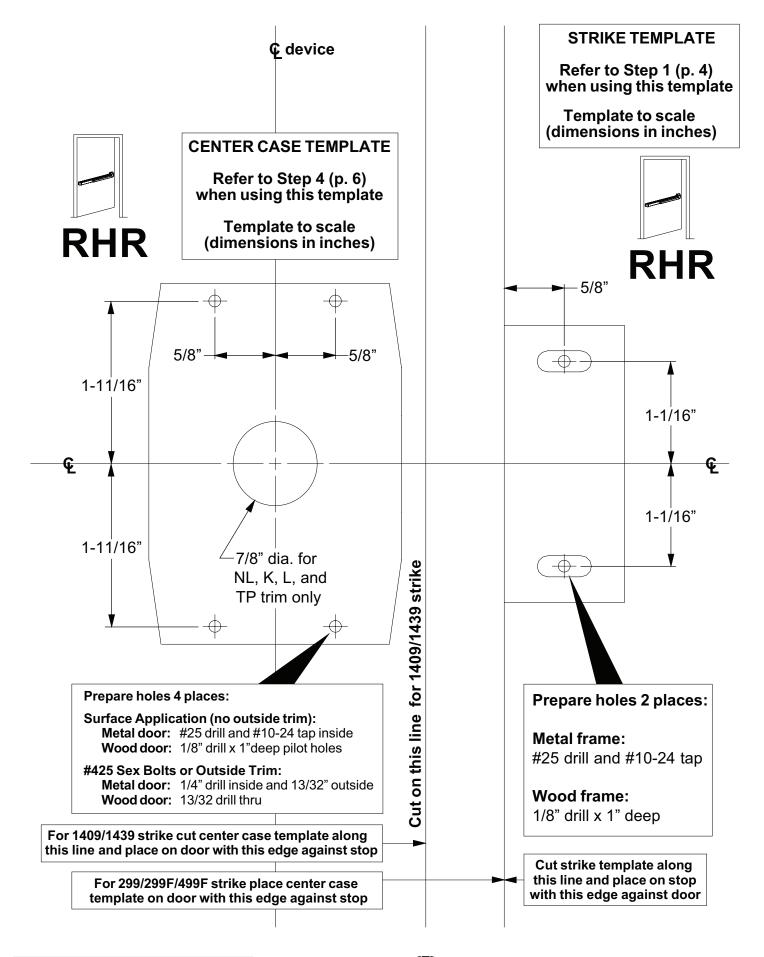
Center strike hook on device 1/16" from mullion.





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	





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TRIM

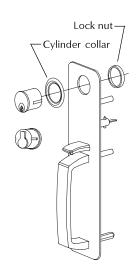
230TP/TP-BE

VON DUPRIN®

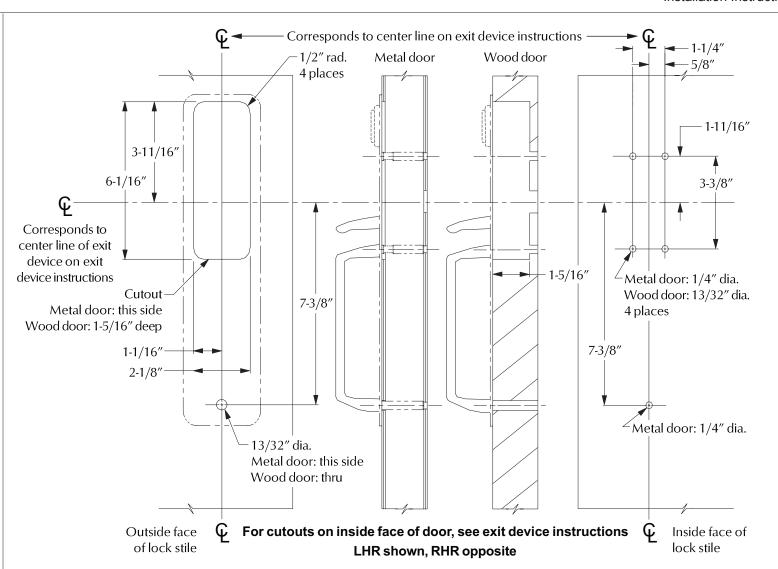
Installation Instructions

INSTALLATION INSTRUCTIONS

- **1.** Prepare door for exit device. See exit device instructions for holes and center lines.
- 2. Prepare door for trim:
 - A. Transfer vertical center line from inside (exit device side) of door to outside (trim side) of door. Use extra care if edge of door is beveled. Be sure center line is parallel to edge of door.
 - **B.** Locate and prepare holes as shown.
- 3. For TP trim only, install mortise cylinder.
- **4.** If necessary, convert trim for 2-1/4" thick door (see conversion instructions below).
- 5. Apply trim.
- **6.** Apply exit device, thru-bolt to trim, and use screw with #12 countersink washer for lower trim mounting stud.



Use mortise cylinder with standard straight cam in position shown with key removed



CONVERSION FOR 2-1/4" THICK DOOR

Trim is shipped for 1-3/4" thick door. For 2-1/4" thick door:

- 1. Remove roll pin.
- 2. Pull shaft out to second hole.
- **3.** Install roll pin thru TP cam into shaft and thru other side so it protrudes the same amount on each side.

