

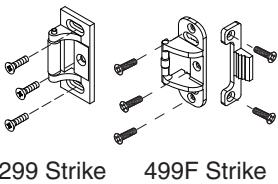
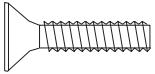
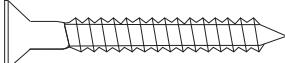
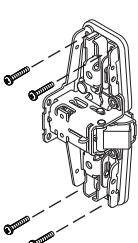
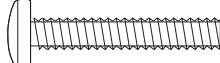
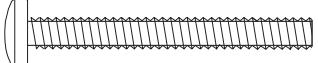
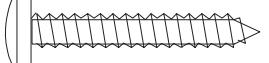
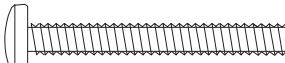
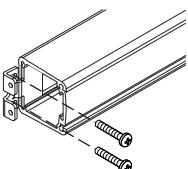
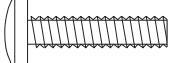
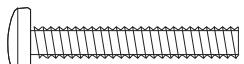
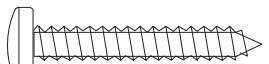
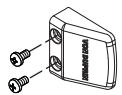
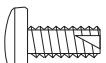
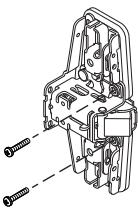
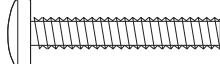
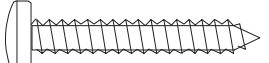
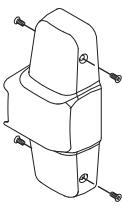
Customer Service

1-877-671-7011

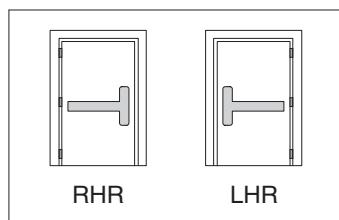
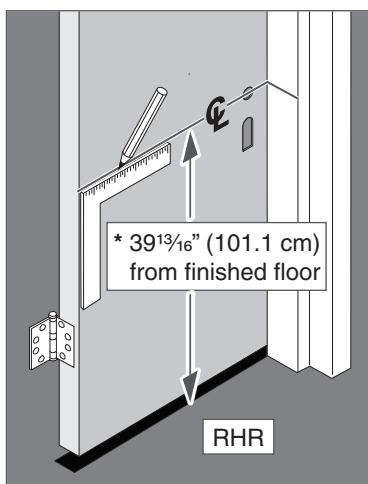
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373-00 Rev 05/17-h

SCREW CHART

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

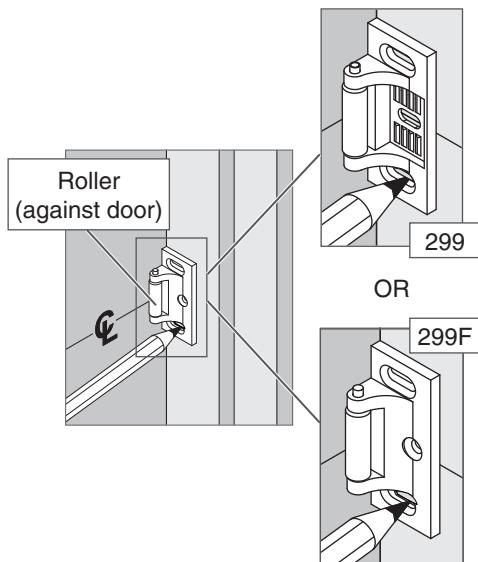
1 Draw horizontal device and strike center lines (Q).



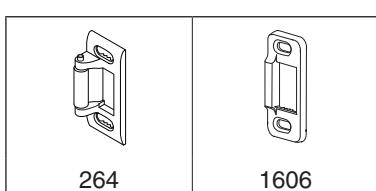
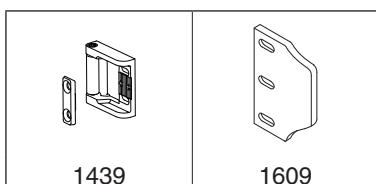
* For double doors with a mullion and strike already installed, use existing strike center line.

2 Align strike on Q and mark the two slotted holes.

① For 499F strike installation, see page 6.

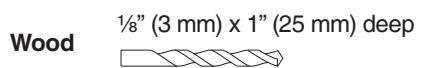
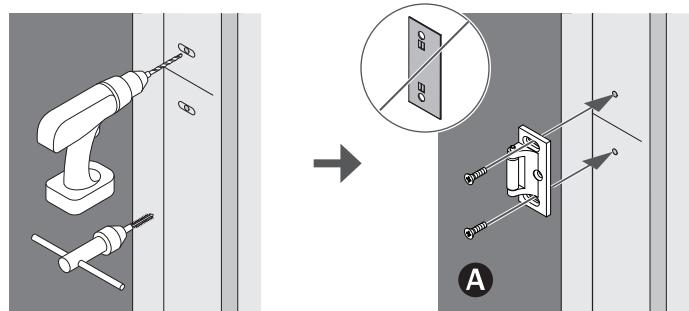


① For more information on the strikes shown below, go to <http://w3securitytechnologies.com> and look for the Support area for Von Duprin installation instructions.

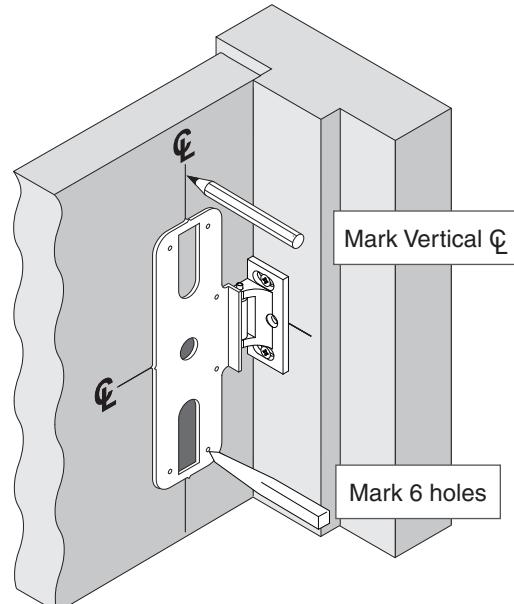


3 Prepare 2 holes and install 2 screws.

① See "Screw Chart" on previous page for screw types and sizes



4 Position template against strike and on Q and mark door.

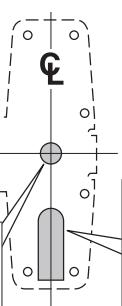


5 If necessary, prepare cutouts for cylinder and trim.

RHR shown, LHR opposite

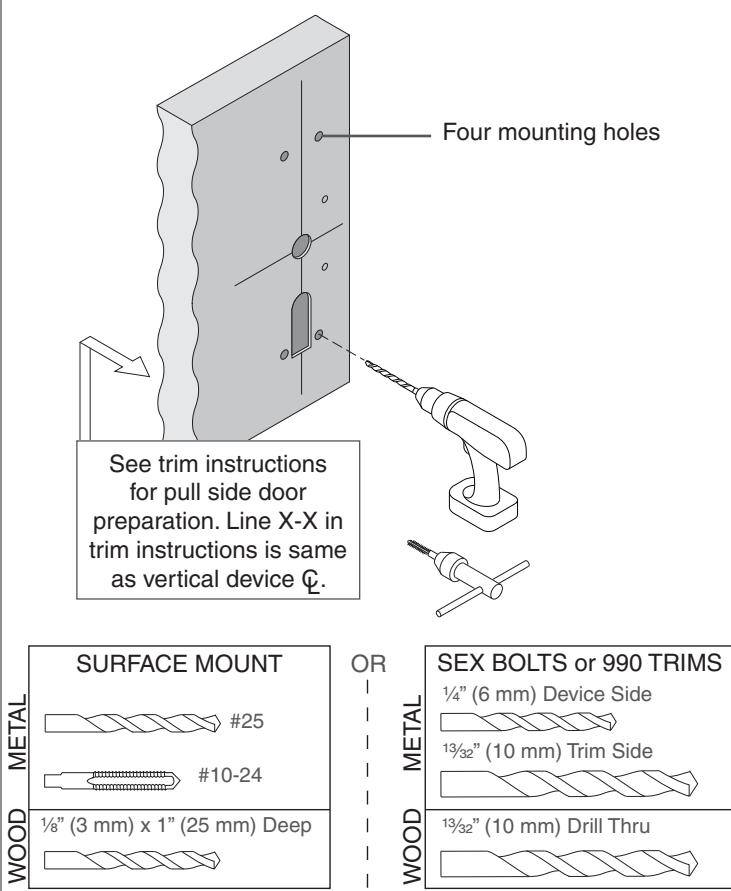
Q

For outside cylinder applications:
Mark with template and cut out
Metal door (cut device side)
Wood door (cut thru)

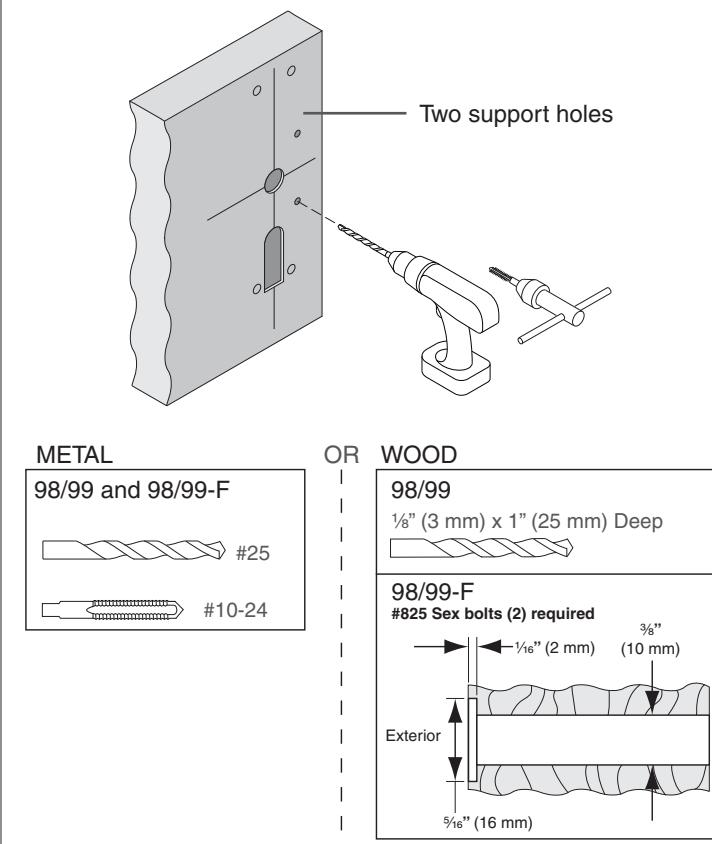


For trim applications with working lever, thumbpiece, or knob:
Mark with template and cut out (cut device side only)

6 Prepare 4 center case mounting holes.

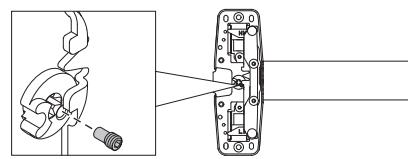


7 Prepare 2 center case support holes.



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
996K

696TP
697TP

990TP

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).

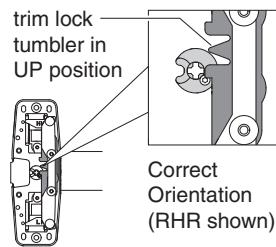
*996L-BE
*996K-BE

*E996L
*E996L-BE

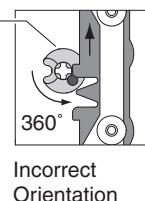
*696TP-BE
*697TP-BE

*990TP-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.



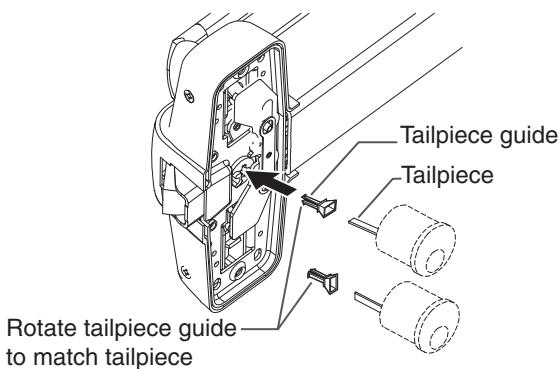
If necessary, remove drive screw and rotate cam until trim lock tumbler is in UP position, then reinstall drive screw



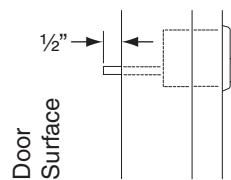
Incorrect Orientation

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

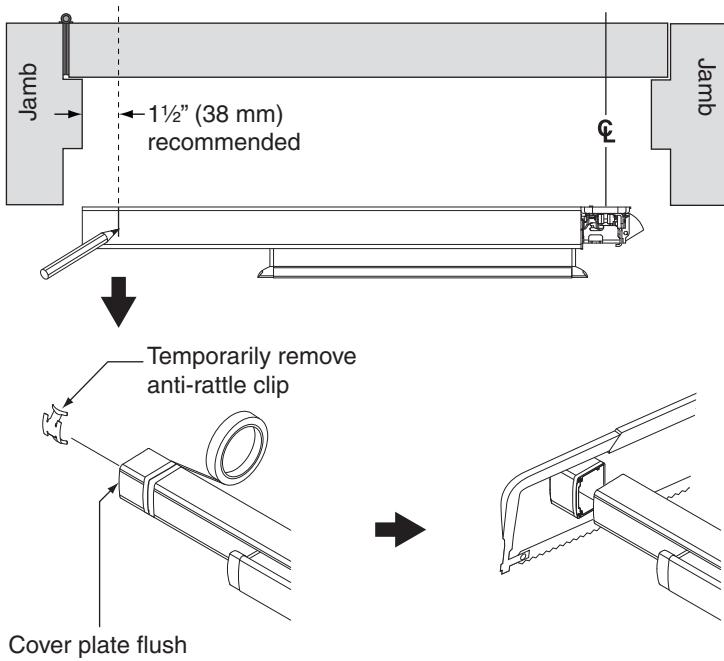
9a Install tailpiece guide.



9b Cut tailpiece as needed.

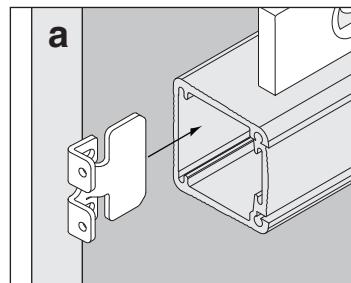


10 If necessary, cut device.

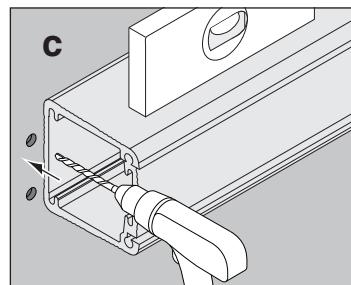
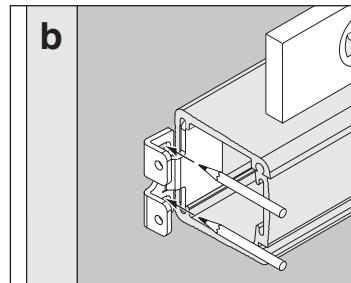


12 Mark and prepare two (2) holes.

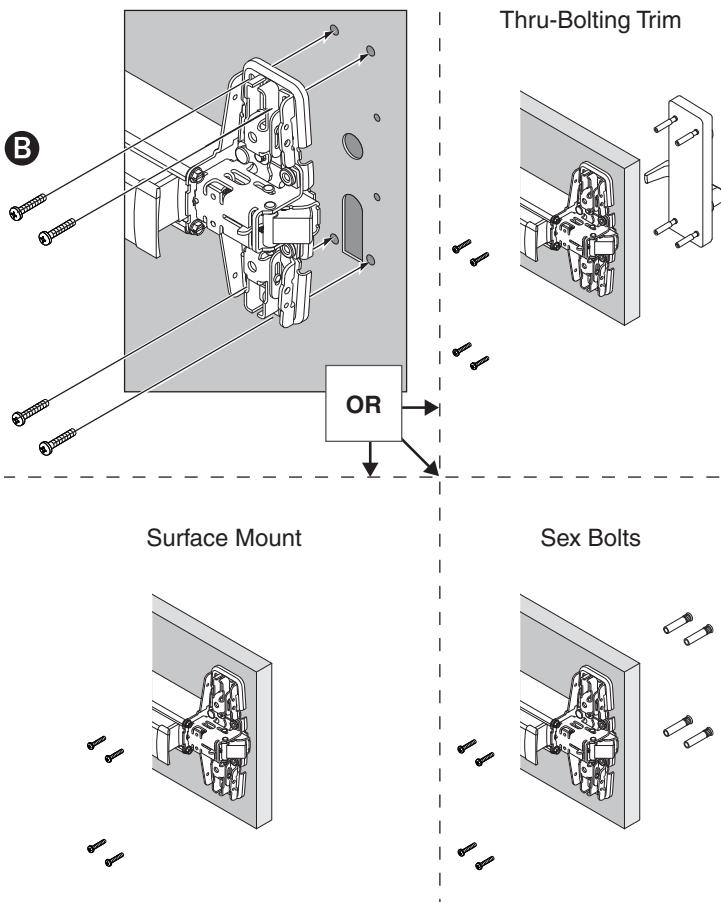
i Prepare holes after lock side of device is mounted and hinge side is leveled.



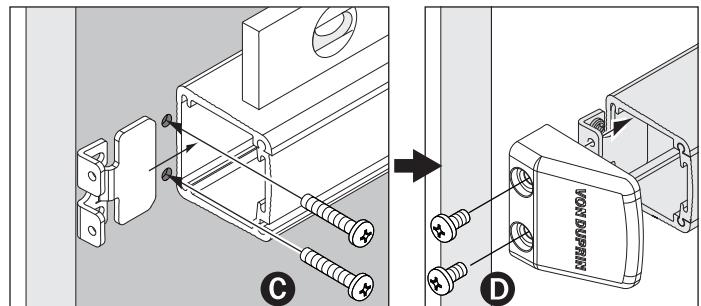
METAL	SURFACE MOUNT	
	#25	
WOOD	#10-24	
OR		
METAL	SEX BOLTS	
	1/8" (3 mm) x 1" (25 mm) Deep	
WOOD	1/4" (6 mm) Device Side	
13/32" (10 mm) Trim Side		
13/32" (10 mm) Drill Thru		



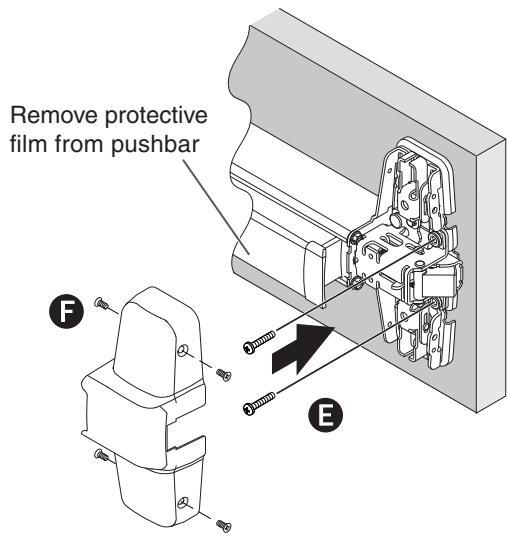
11 Attach center case to door.



13 Install end cap bracket and end cap.

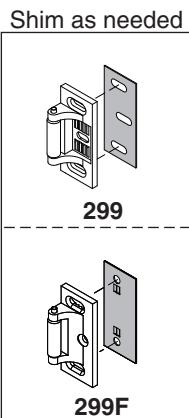
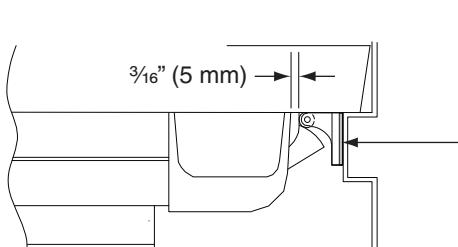


14 Install required support screws and center case cover.

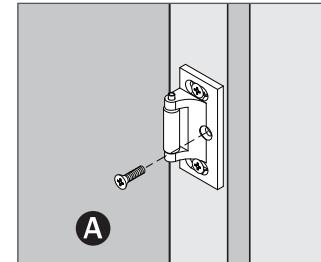
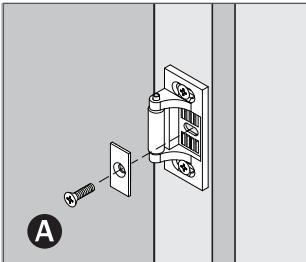


15 Adjust strike as needed.

299/299F Strike

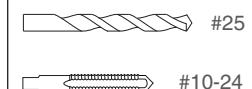


16 Install strike support screw.



METAL

WOOD

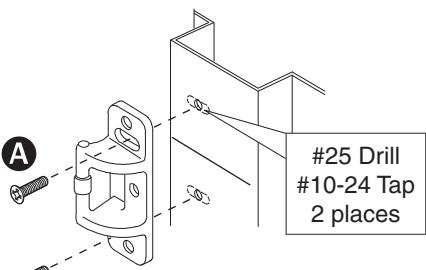
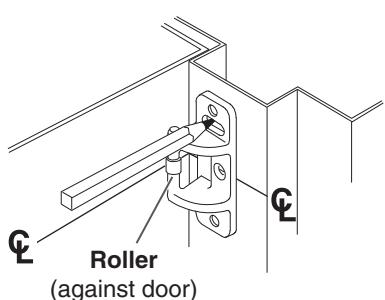


$\frac{1}{8}$ " (3 mm) x 1" (25 mm) Deep



499F STRIKE INSTALLATION

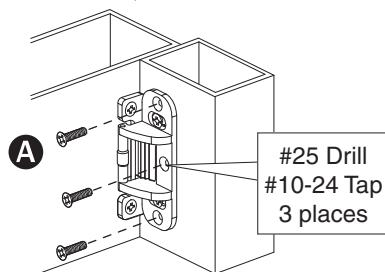
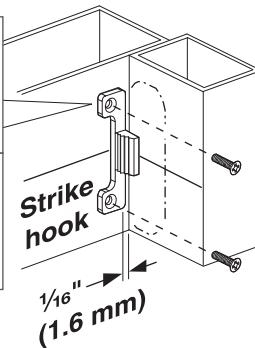
1. Prepare and install screws through two strike slots.



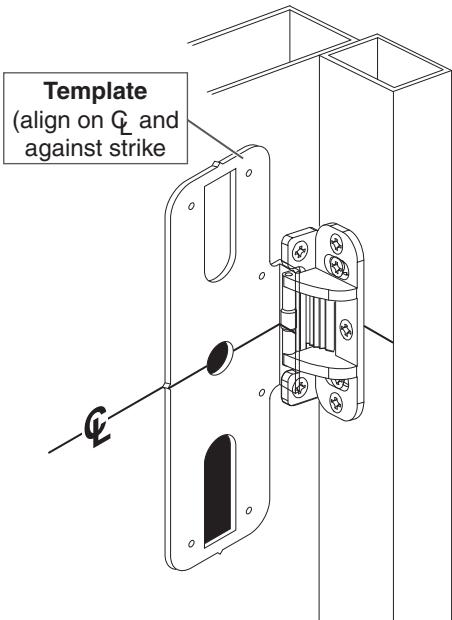
i If using a mullion, holes may be predrilled

2. Install strike hook and additional strike screws.

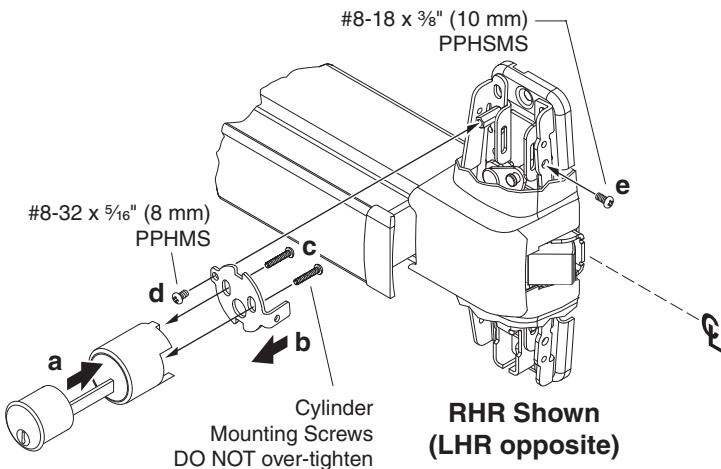
Metal	#7 Drill 1/4" (6 mm)- 20 Tap 2 places
Wood	13/32" (10 mm) Drill thru for screws 2 places



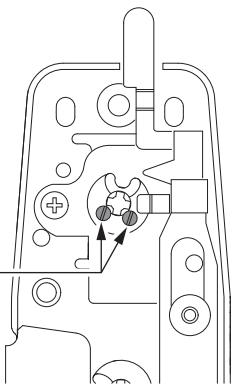
3. Template aligns as shown.



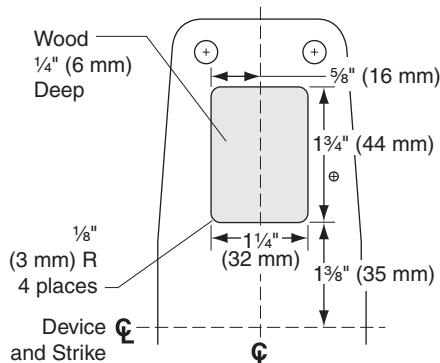
99-2 (DOUBLE CYLINDER) OPTION



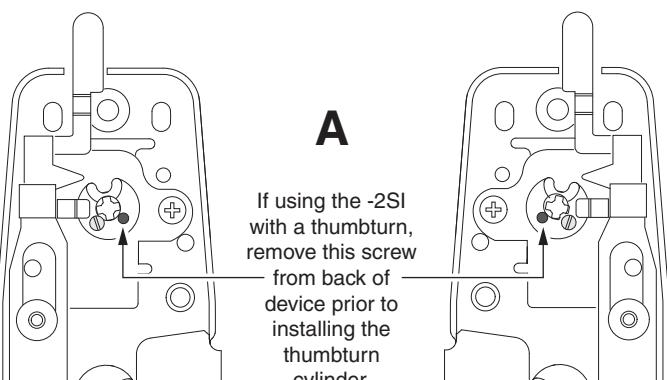
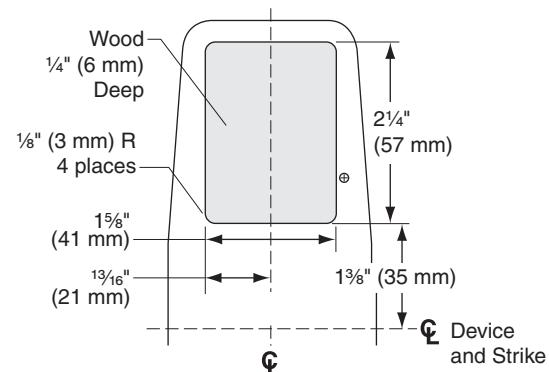
If using the -2SI with a keyed rim cylinder, remove the 2 stop screws from back of device prior to installing the cylinder.



Door Cutout for 99-2 "Double Cylinder" Option



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

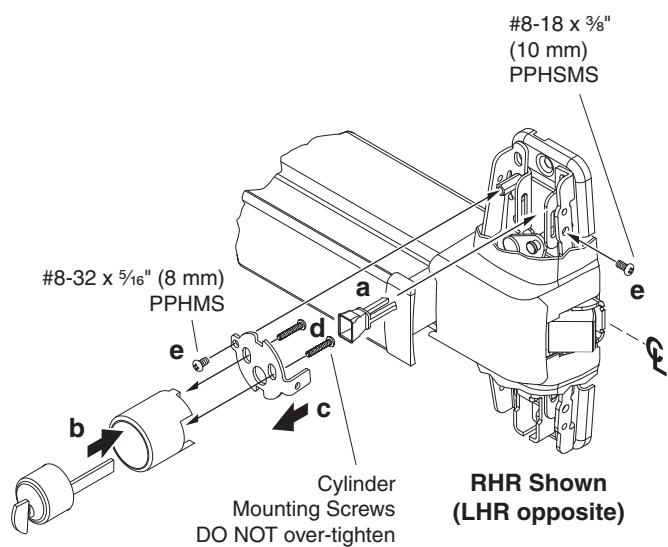
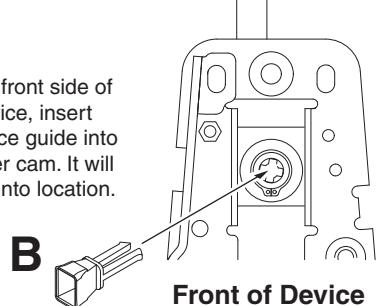


LHR
Back of Device

(device shown in unlocked position)

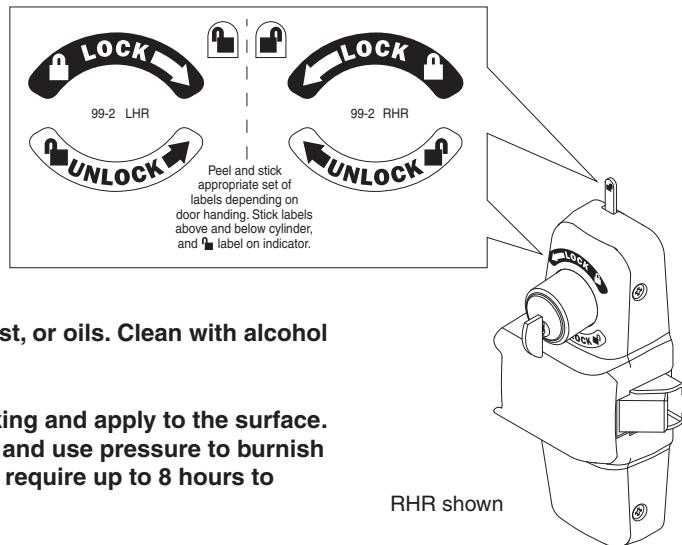
RHR
Back of Device

From front side of device, insert tailpiece guide into master cam. It will snap into location.



99-2 (DOUBLE CYLINDER) OPTION - CONTINUED

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

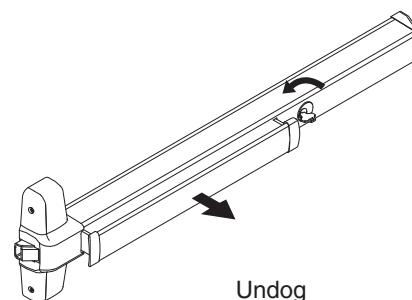
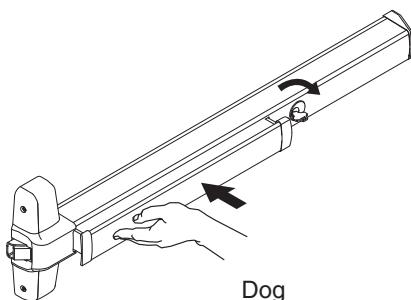
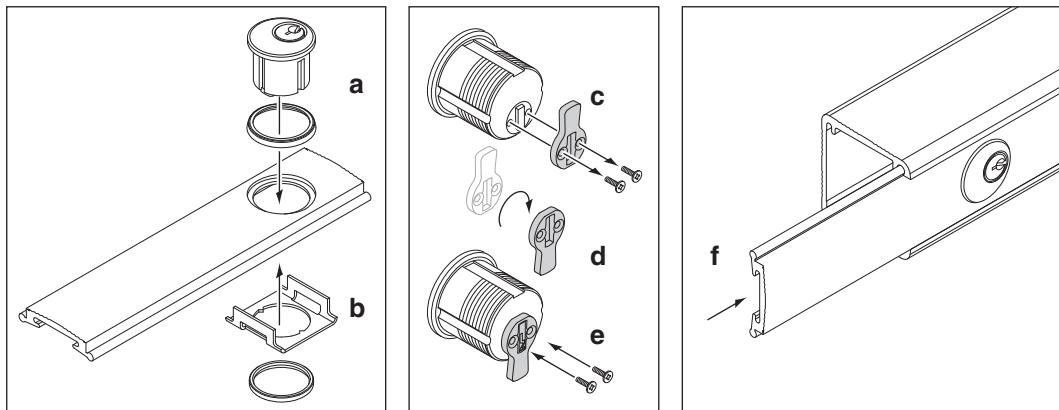


Manually affix the label:

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.

CD (CYLINDER DOGGING) OPTION

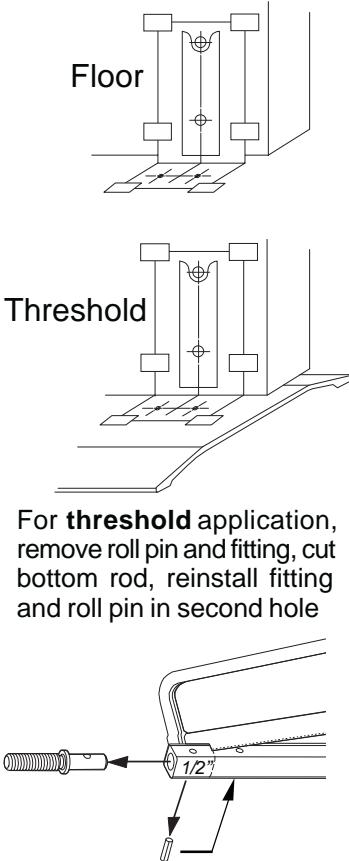


VON DUPRIN®

98/9927 AND 98/9957

LATCH AND STRIKE TEMPLATES

BOTTOM LATCH AND 248-L4 STRIKE



For **threshold** application, remove roll pin and fitting, cut bottom rod, reinstall fitting and roll pin in second hole

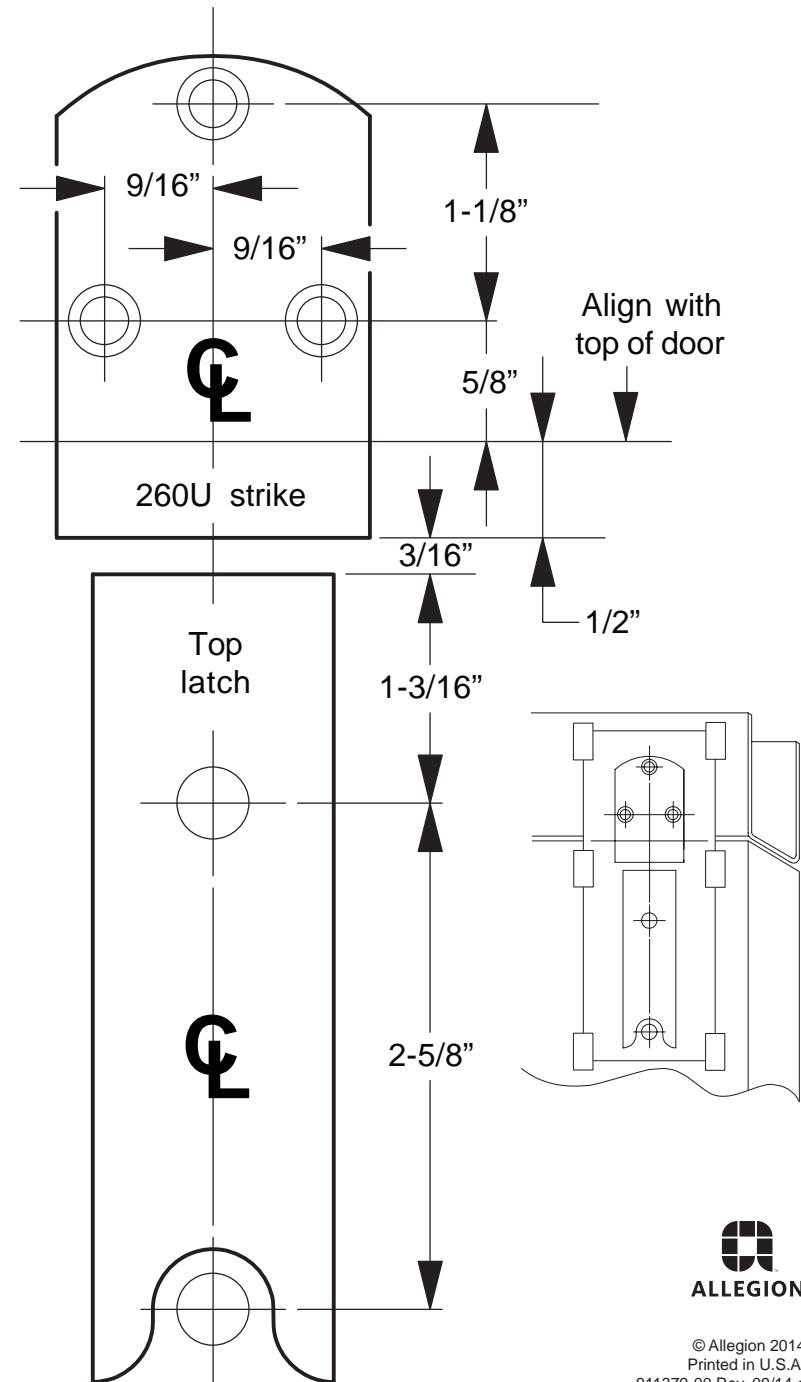
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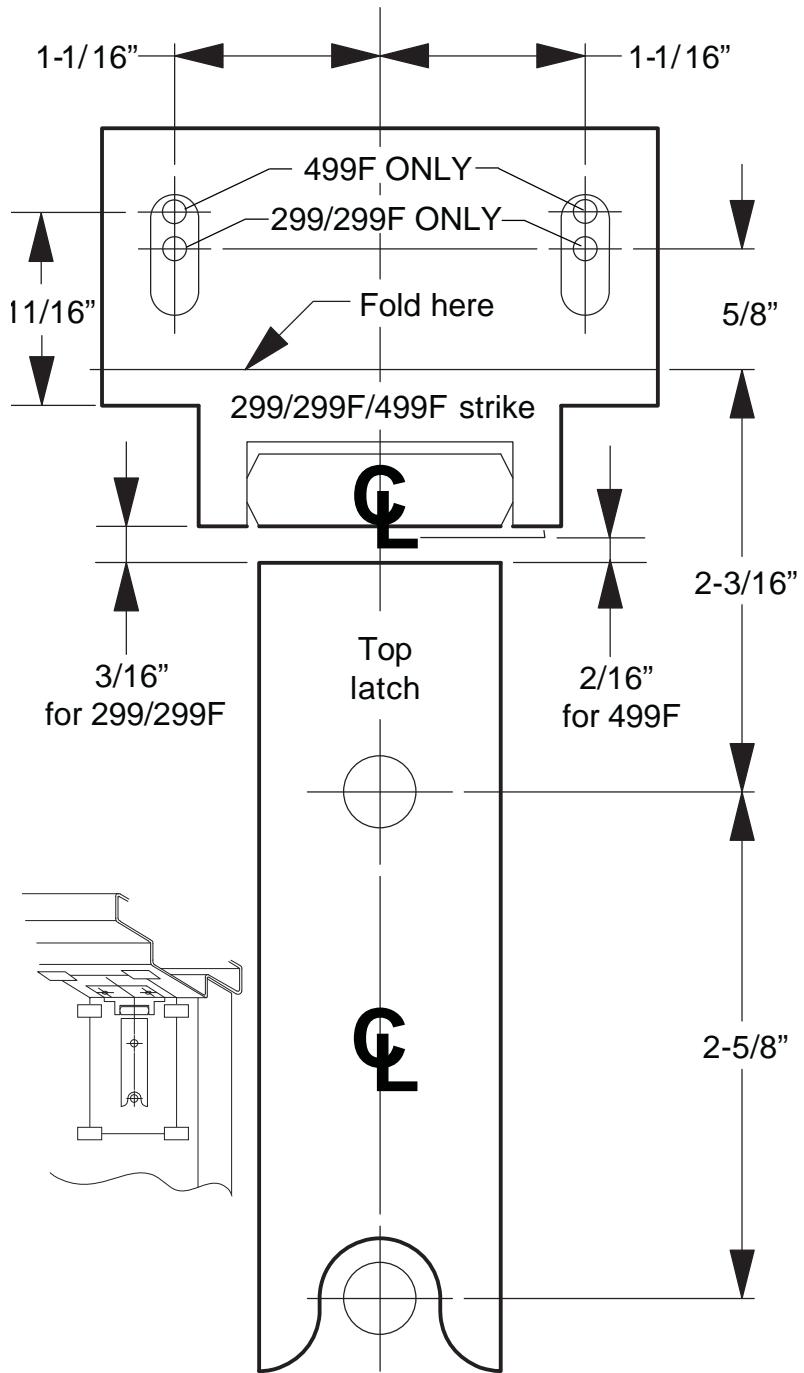
TOP LATCH AND 260U STRIKE



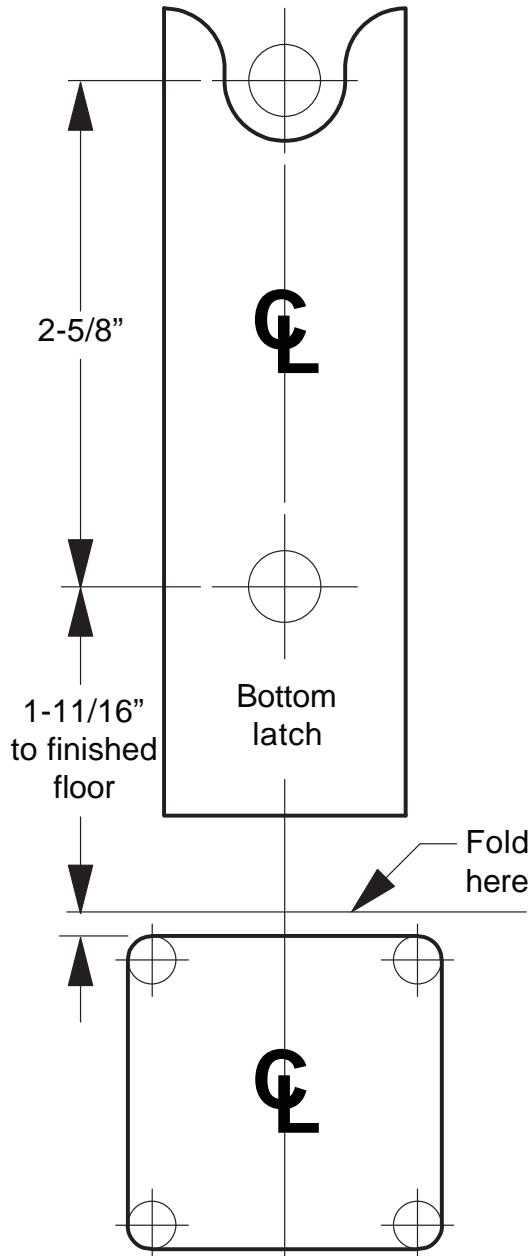
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911379-00 Rev. 09/14-c

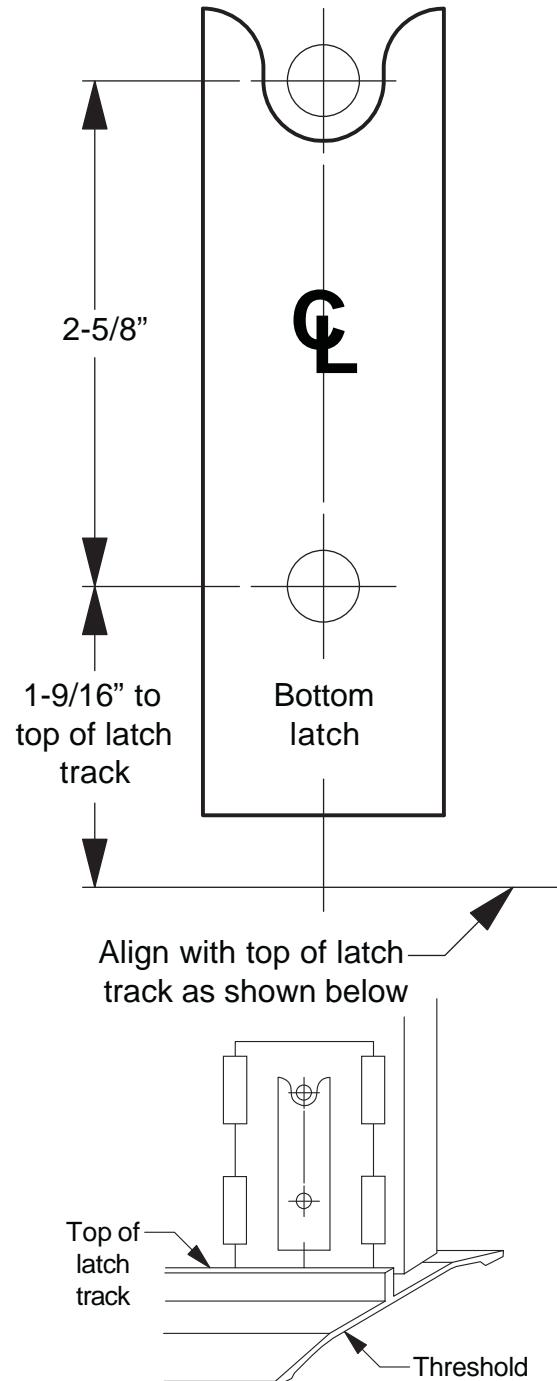
TOP LATCH AND 299/299F/499F STRIKE



BOTTOM LATCH AND 304L STRIKE



BOTTOM LATCH AND LATCH TRACK





377-T & 377-T-BE

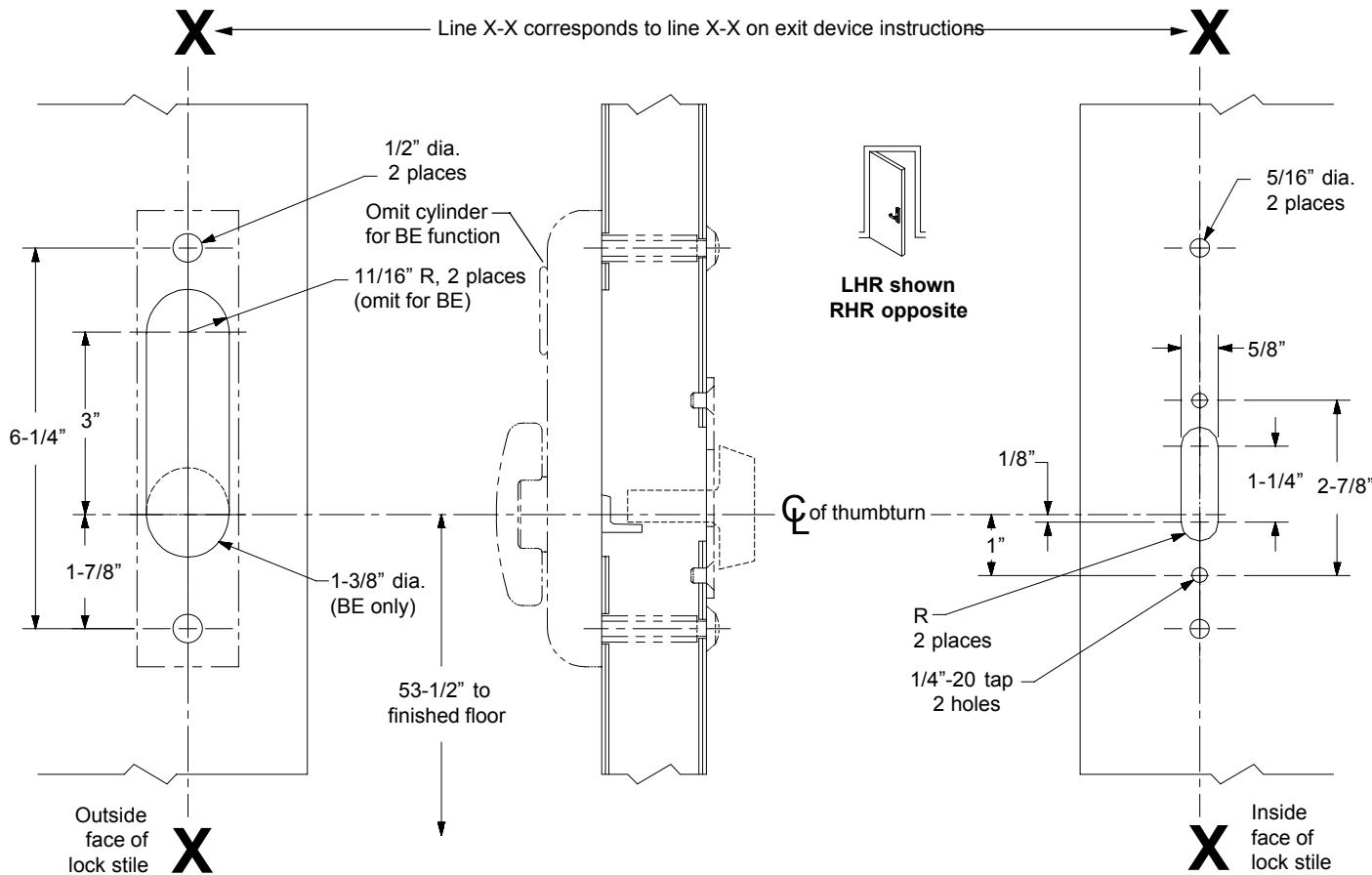
VON DUPRIN®

941116-00

Control for Metal Door Application

Installation Instructions

1. Prepare door for exit device. See exit device instructions for locations of holes, backset (line X-X), and center lines.
2. Prepare door for control:
 - A. Transfer line X-X from inside (exit device side) of door to outside (control side) of door. Use extra care if edge of door is beveled. Be sure line X-X is parallel to edge of door.
 - B. Locate and prepare holes as indicated.
3. Install cylinder if required (Figs. 1 &2). Insure cylinder cam is set for required function and replace if necessary.
4. Install control and rub plate (Fig. 2)
5. Slip rod member on top rod.
6. Install top rods (see direction for vertical rod device).
7. Position rod member so finger contacts cam when top latch bolt is extended.
8. Tighten set screws in rod member.
9. Apply device and test key, control, and device action.



For cutouts on inside face of door see instructions in device carton

Device Application Schedule

4427, 8827, 8827-F Vertical Rod Exit Device

Customer Service

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941116-00 Rev. 01/14-b

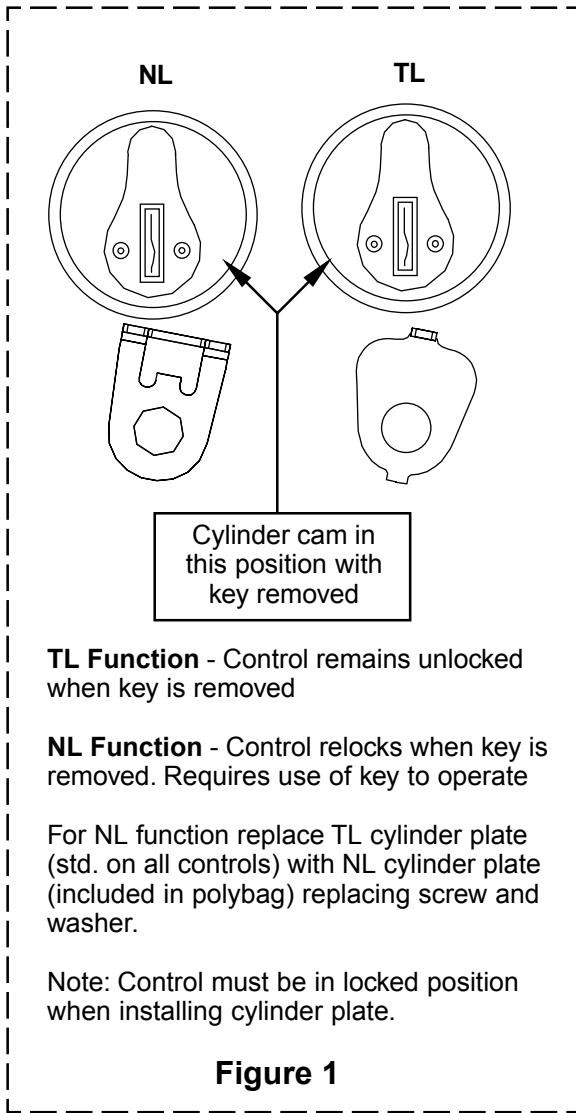


Figure 1

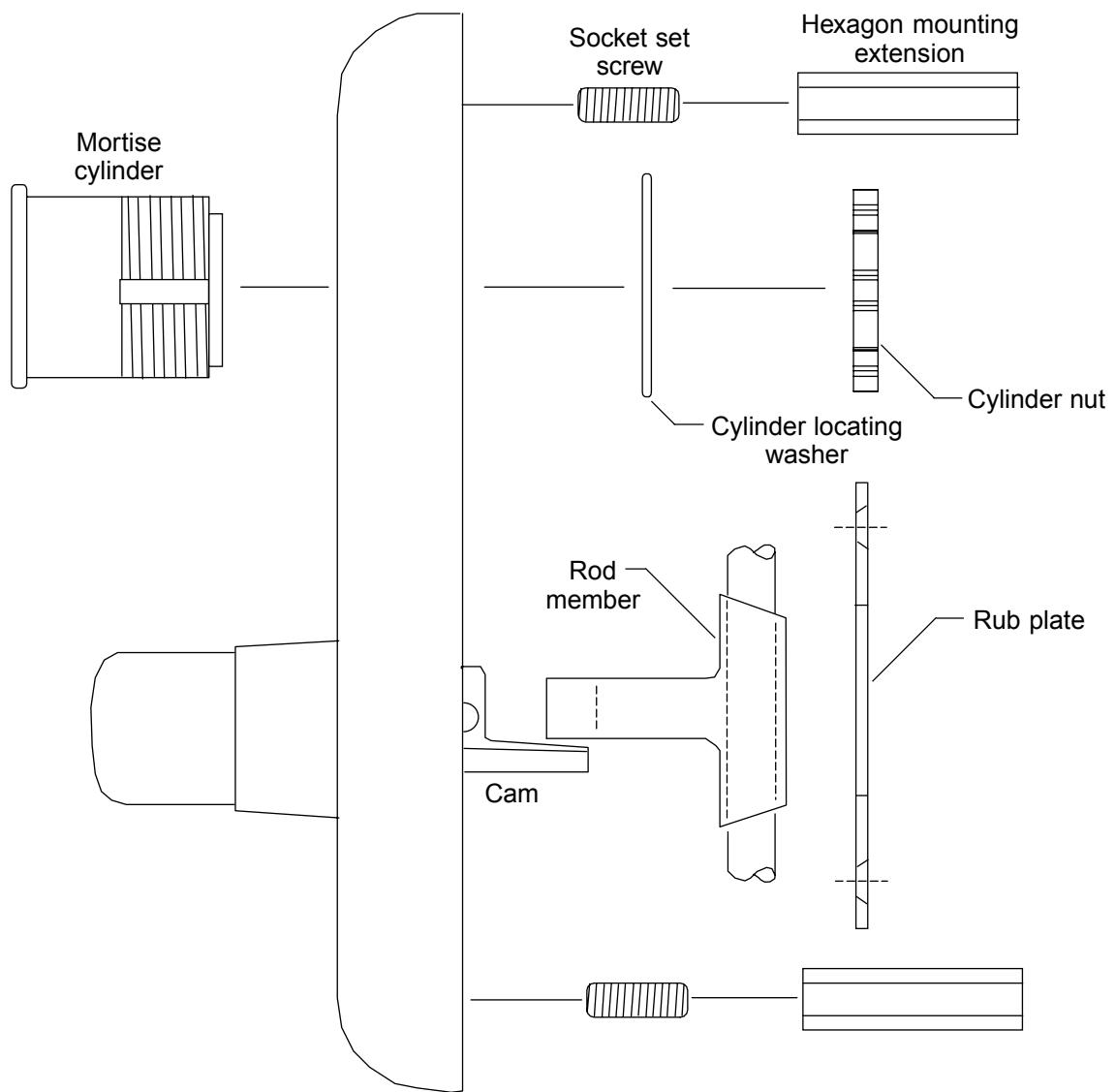


Figure 2



374-T & 374-T-BE

VON DUPRIN®

941118-00

Control for Metal Door Applications

Installation Instructions

1. Prepare door for exit device. See exit device instructions for holes and backset.
2. Transfer center line from inside (exit device side) of door to outside (control side) of door. Use extra care if edge of door is beveled. Be sure center line is parallel to edge of door.
3. Locate and prepare all holes as indicated in diagrams on other side.
4. Install exit device.
5. Make sure control cam is in position shown in Figure 1.
6. Install cylinder, if used, in control (Figure 2).
7. Make sure control cylinder plate is correct for desired function (NL or TL; Figure 3).
8. Disconnect top vertical rod.
9. Apply control and rub plate to door and secure with screws (Figure 4).
10. Place rod member on top vertical rod so rod member finger faces door and curved side of rod member finger faces down (Figure 5).
11. Insert rod member finger into slot in door. Reconnect top vertical rod.
12. With top latch bolt extended, slide rod member up rod so rod member finger touches control cam.
13. Tighten set screws in rod member with 1/8" hex wrench.
14. Test key, control, and exit device action.

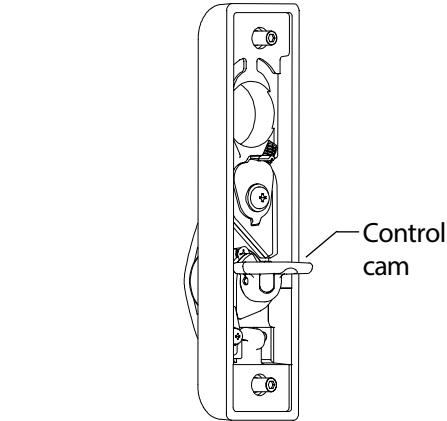


Figure 1. Control cam position.

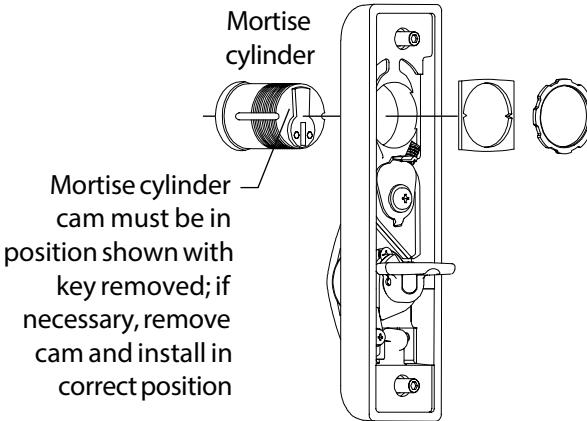


Figure 2. Cylinder installation.

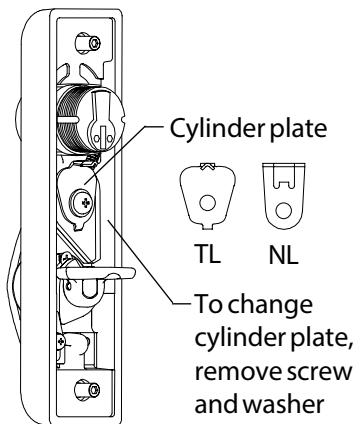


Figure 3. Cylinder plate.

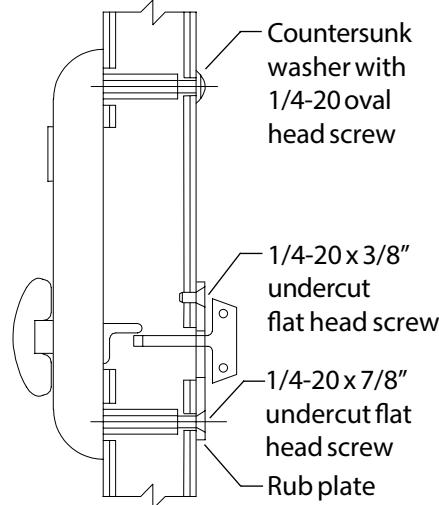


Figure 4. Control and rub plate application.

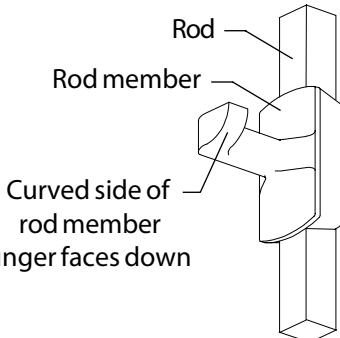


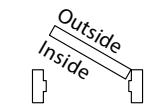
Figure 5. Rod member position.

Surface Vertical Rod Device Application Schedule	
2227	3327/3527
2227-F	3327A/3527A
9827/9927	3327A-F/3527A-F
9827-F/9927-F	

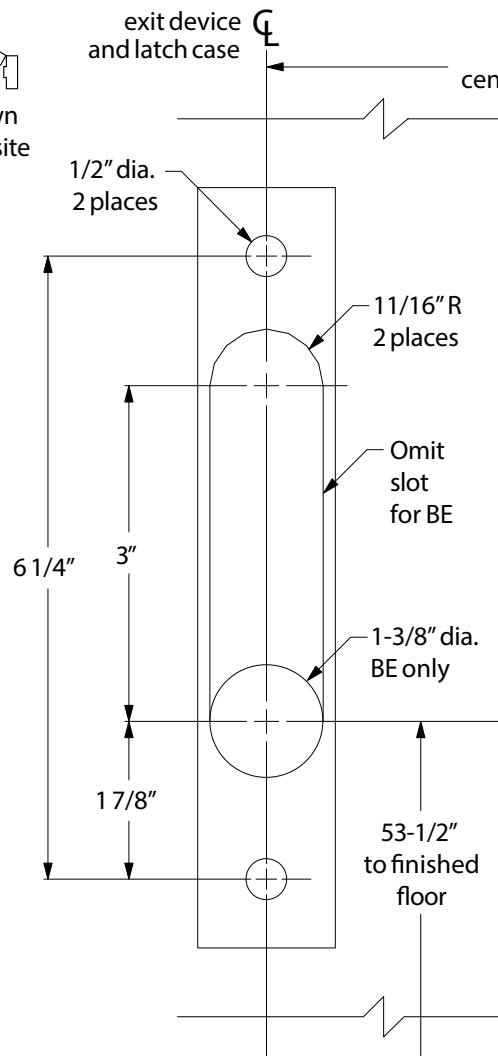
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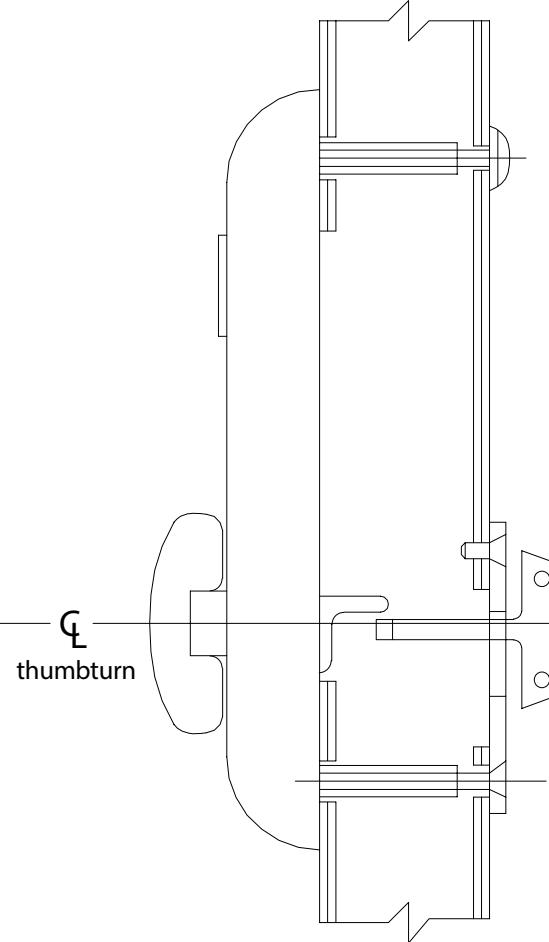
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LHR shown
RHR opposite



Center line exit device and latch case corresponds to center line exit device and latch case on exit device instructions



For cutouts on inside face of door, see exit device instructions.

