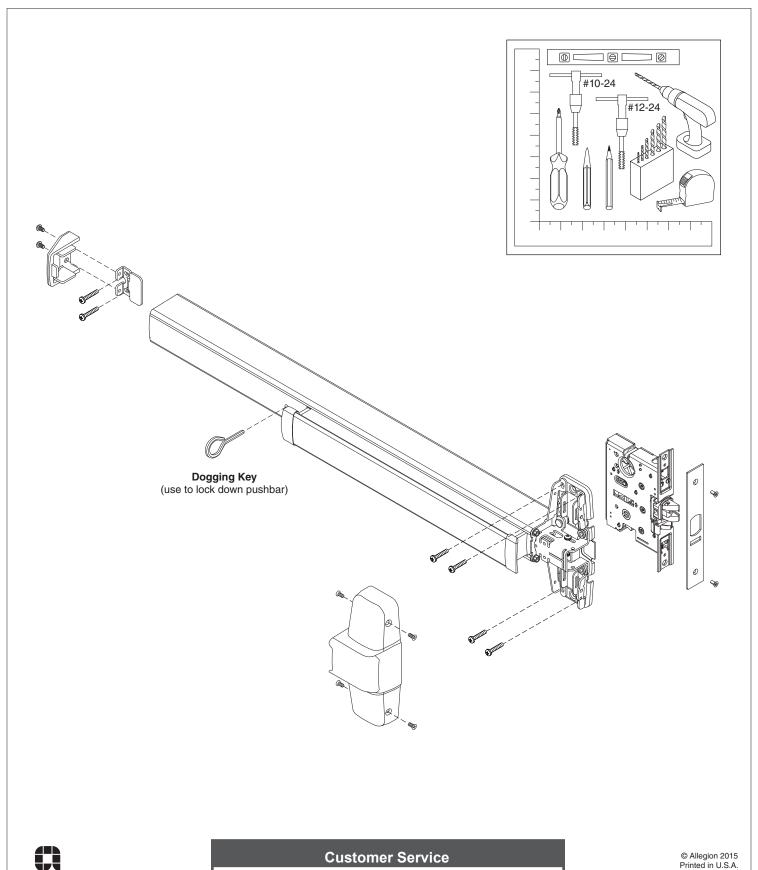


9875/9975

VON DUPRIN®

911374-00

Mortise Exit Device Installation Instructions





1-877-671-7011

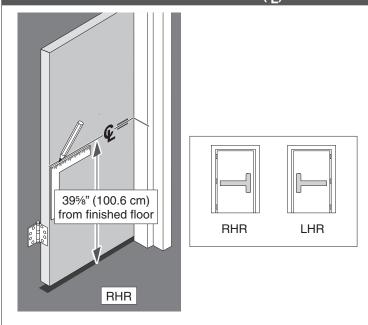
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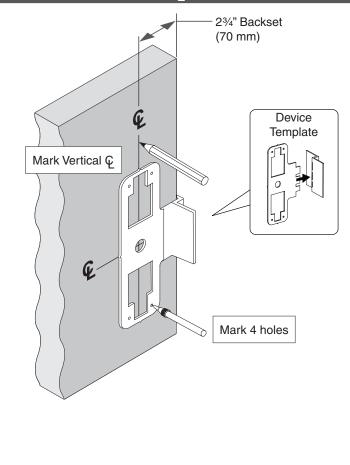
SCREW CHART

Subassembly	Screw		Application
A		#12-12 x 12-24 x 1" (25 mm) Combination	Metal or wood door
B		#10-24 x 1" (25 mm)	Surface mount or Sex bolts 13/4" (44 mm) door
		#10-24 x 1½" (38 mm)	Sex bolts, 21/4" (57 mm) door
		#10 x 11/4" (32 mm) Wood screw	Surface mount (wood)
•	Packaged with 990 Trims:	#10-24 x 1%" (35 mm)	1¾" (44 mm) door, 990 Trim
		#10-24 x 11/8" (48 mm)	21/4" (57 mm) door, 990 Trim
575 Strike Strike		#12-12 x 12-24 x 1" (25 mm) Combination	Metal or wood frame
576A Strike Strike		#12-12 x 12-24 x 1" (25 mm) Combination	Metal or wood door
D		#10-24 x ¾" (19 mm)	Surface mount or Sex bolts 13/4" (44 mm) door
		#10-24 x 11/8" (29 mm)	Sex bolts, 21/4" (57 mm) door
		#10 x 11/4" (32 mm) Wood screw	Surface mount (wood)
		#10-16 x %" (10 mm) Thread cutting	End cap
F		#8-18 x %" (10 mm) Thread cutting	Center case cover

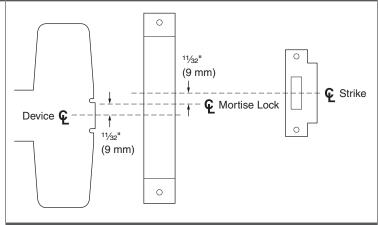
1 Draw horizontal device center line (\$\varphi\$).



Position template on **©** and mark door.

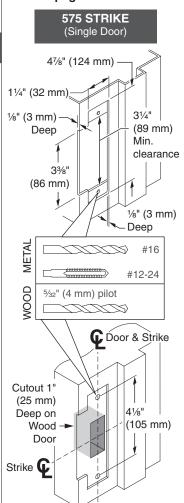


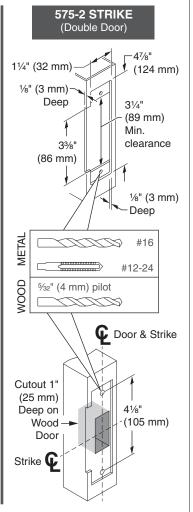
3 Locate strike center line (Ç).



4 Prepare the door frame (or other door) for strike.

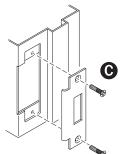
(i) 575, 575-2 strike shown. For 576A/576B strike preparation, see page 7.





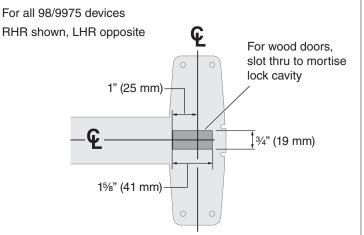
5 Install strike.

i For 576A/576B strike installation, see page 7.



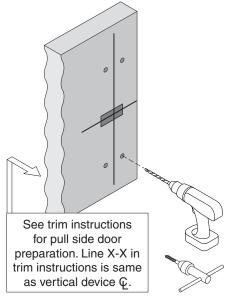
(i) See "Screw Chart" on page 2 for screw types and sizes.

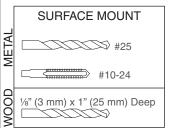
6 If necessary, prepare door cutout.

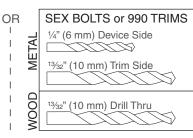


7 Prepare door for device and trim.

Prepare 4 center case mounting holes.

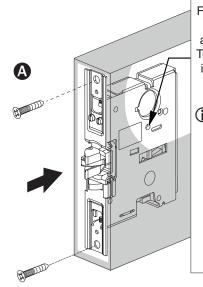






8 Install mortise lock into door.

i See 7500 mortise lock instruction #941019.



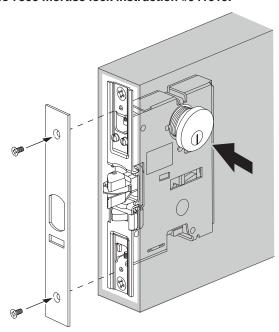
For TP, K and L trims with outside cylinder to lock and unlock trim function: Turn set screw all the way in until screw head is no longer visible.

Screw has Loctite.
It may be necessary
to run screw up and
back down a second
time.

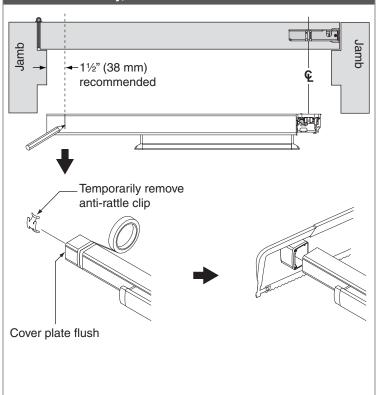
For EO, DT, NL and "double cylinder" applications, leave the set screw as shipped.

9 Install outside locking cylinder (if using) and complete installation of mortise lock.

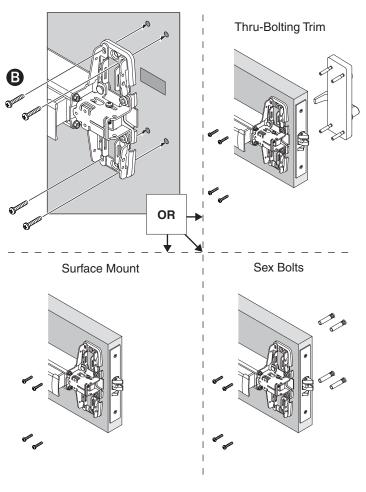
i See 7500 mortise lock instruction #941019.



10 If necessary, cut device.

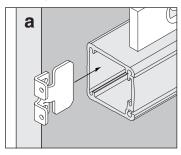


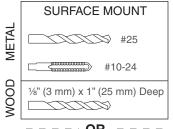
11 Install trim (if using) and attach center case to door.

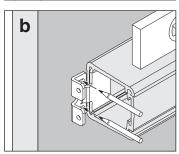


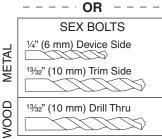
12 Mark and prepare two holes for end cap bracket.

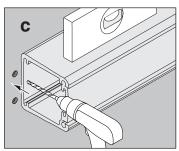
i Prepare holes after lock side of device is mounted and hinge side is leveled.



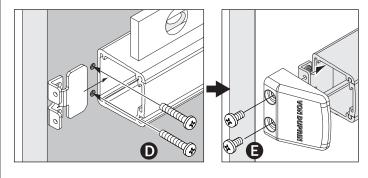






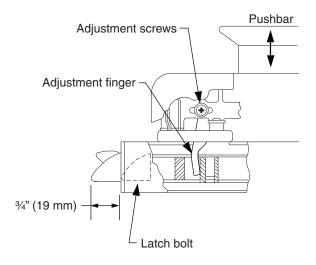


13 Install end cap bracket and end cap.



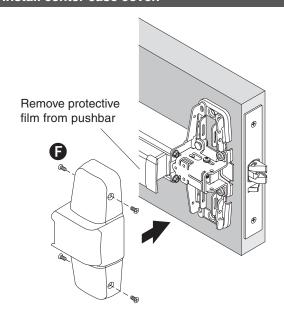
14 Adjust latch bolt.

TOP VIEW



Loosen adjustment screws and adjust finger in or out until latch bolt is fully retracted (with pushbar down) and fully extended 3/4" (with pushbar up).

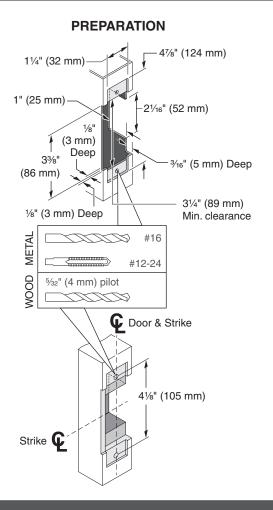
15 Install center case cover.



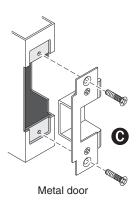
576A/576B STRIKE PREPARATION & INSTALLATION

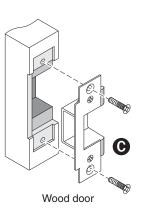






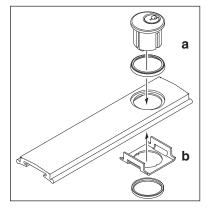
INSTALLATION

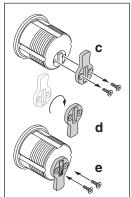


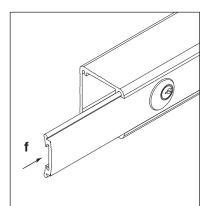


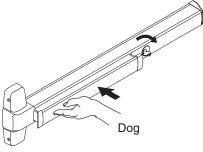
OPTIONAL EQUIPMENT

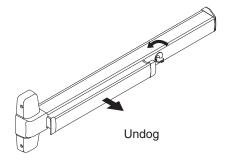
CD (Cylinder Dogging) Option





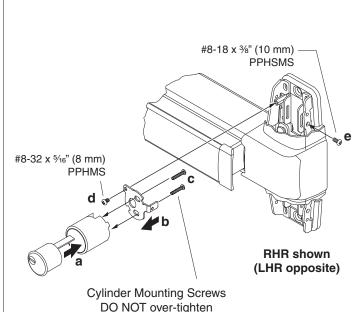


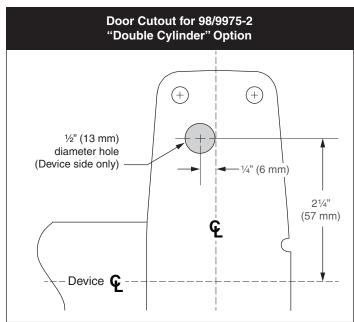




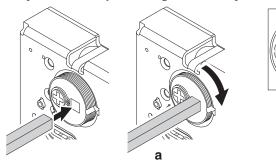
OPTIONAL EQUIPMENT (98/9975-2 DOUBLE CYLINDER)

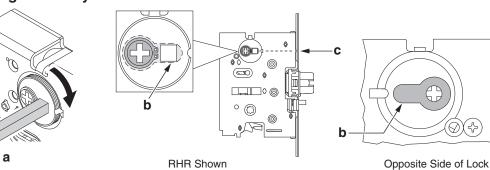
Install Cylinder





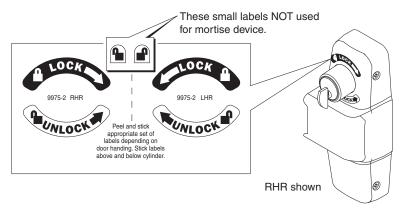
Install Cylinder Adapter Plug Assembly to Mortise Lock





- a. Screw cylinder adapter plug assembly into lock on device side using a ¼"
 (6 mm) square socket driver.
- b. Position finger as shown.
- c. Tighten cylinder screw to hold in place.

A lock/unlock label is an available option that can be used with the 98/9975-2, and is sold separately. The labels are applied above and below cylinder to match door handing.



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.

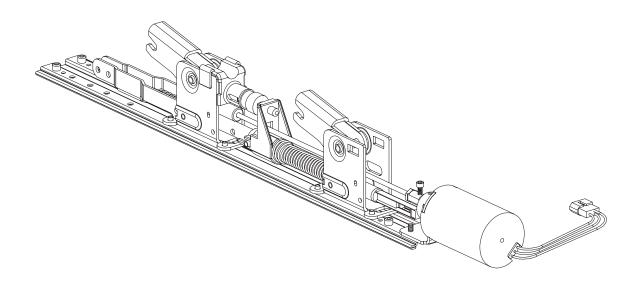


EL/HD-EL

VON DUPRIN®

941255-00

Conversion Kit Installation Instructions



Read All Warnings Before Starting Installation!

Index • General Information 2 • Specifications 2 • Parts List 2 • Warnings 2 • Tools Needed 2 • Installation 3 • EL Wiring and Adjustment 12



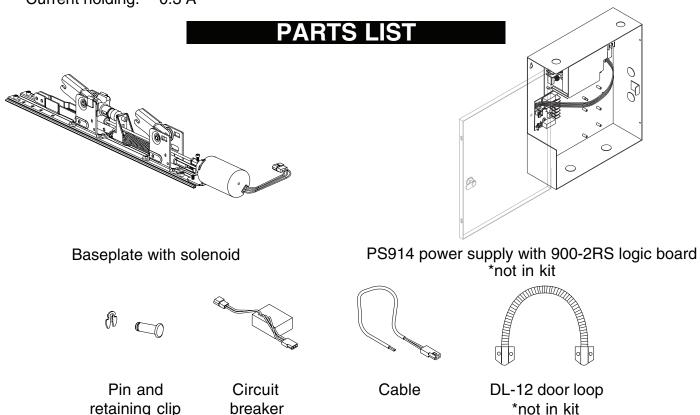
GENERAL INFORMATION

This kit converts 33/35, 33A/35A, and 98/99 series devices to electric latch (EL) retraction devices. Before beginning installation, review "Specifications," "Parts List," "Warnings," and "Tools Needed."

SPECIFICATIONS

Solenoid:

Continuous duty: 24 VDC
Current inrush: 16 A
Current holding: 0.3 A



^{*} This part is required for installation but not included in this kit. Contact factory to order.

WARNINGS

- 1. This kit cannot be used to convert 33/35 Rim devices. Consult factory.
- 2. Install according to instructions or device will not function and panic or fire label will be void.
- 3. The solenoid wiring must be attached to the fire alarm system if installed on fire exit hardware.
- **4.** PS914 power supply with 900-2RS logic board must be used for EL device to operate properly.
- 5. Field wiring between the power supply and the door must be 12 AWG.

TOOLS NEEDED





5/8" dia. drill bit

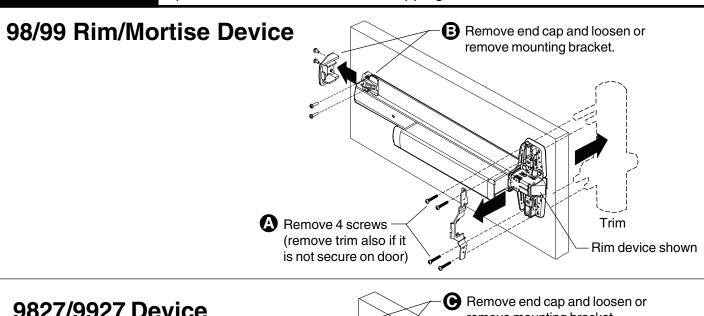
Flat blade screwdriver

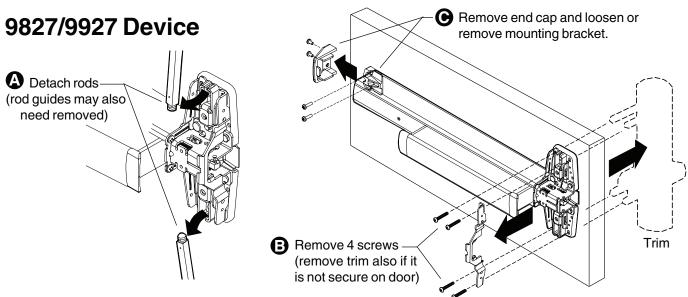
Phillips screwdriver

Remove device from door if installed (find correct device on page 3 or 4).

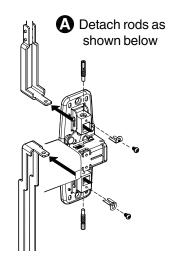
A WARNING

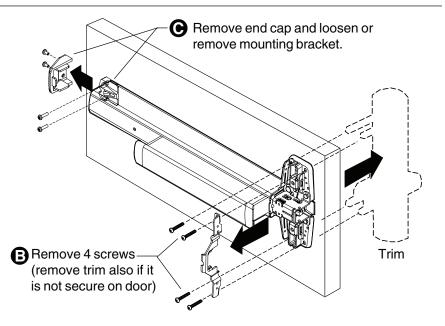
Device and trim must be held securely while removing mounting screws to prevent device and trim from dropping to the floor.



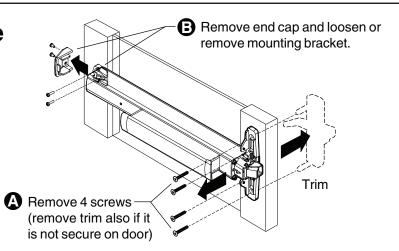






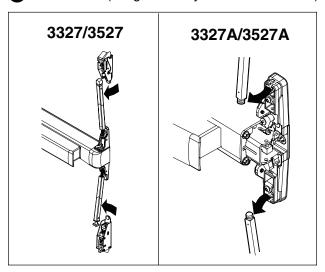


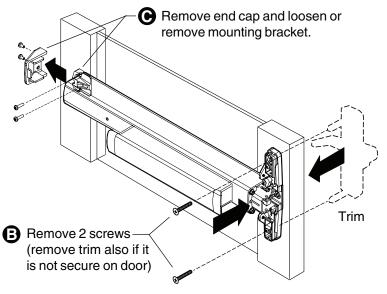
33A/35A Rim Device



3327/3527 & 3327A/3527A Device

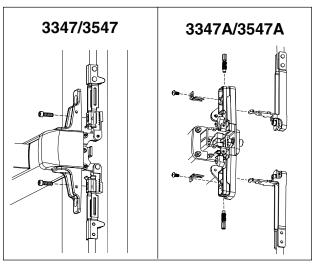
A Detach rods (rod guides may also need removed)

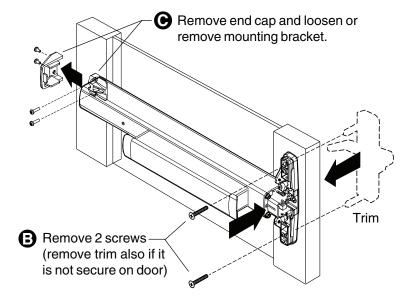




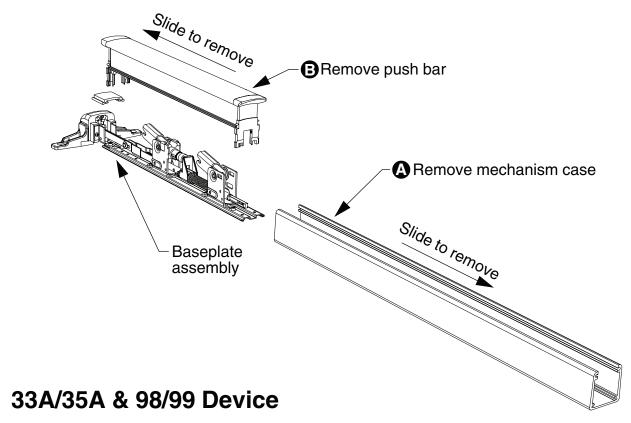
3347/3547 & 3347A/3547A Device

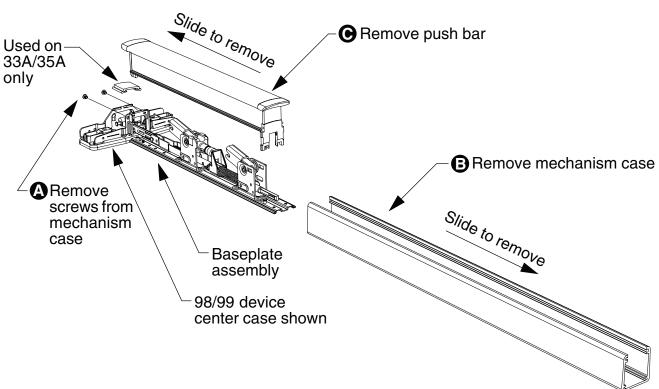
A Detach rods as shown below

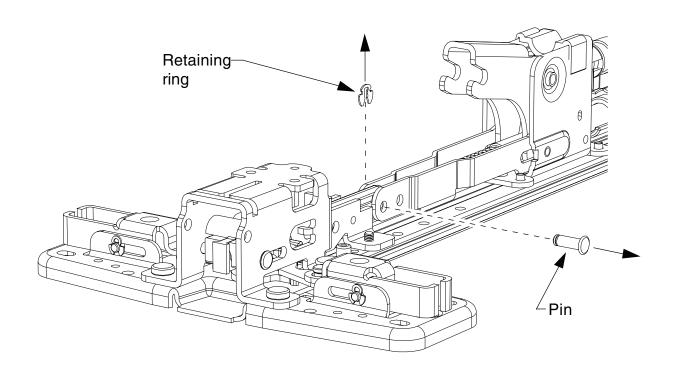




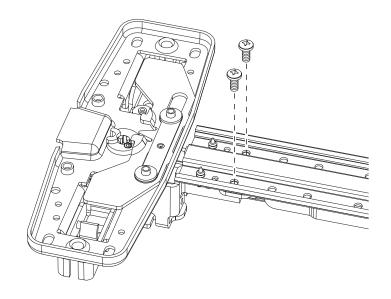
33/35 Device

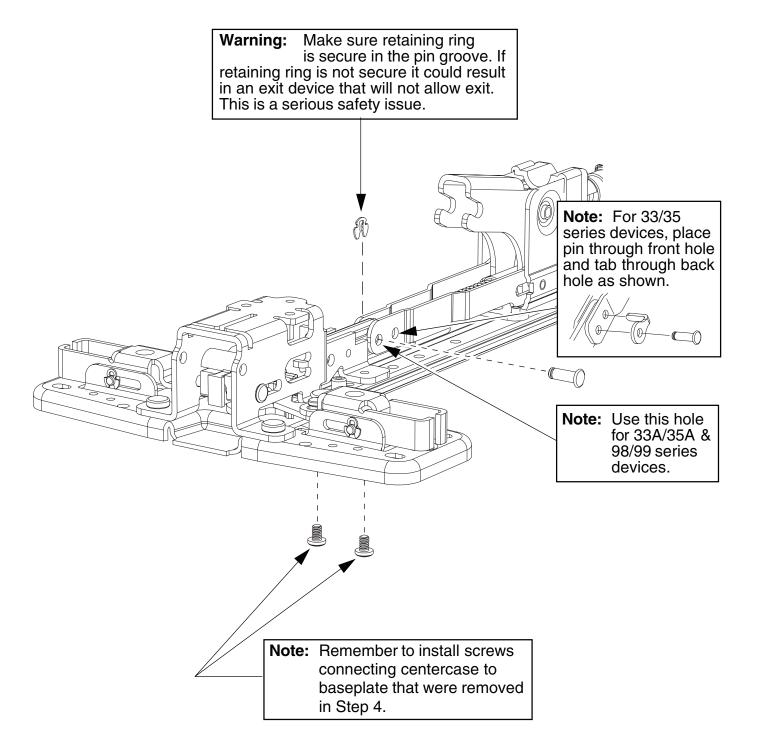




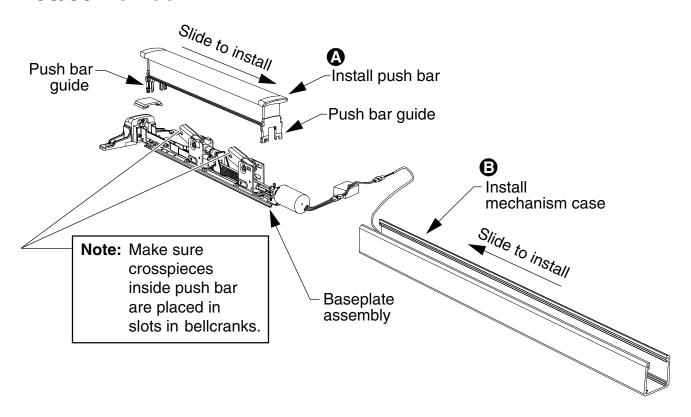


4 Remove screws connecting center case to baseplate.

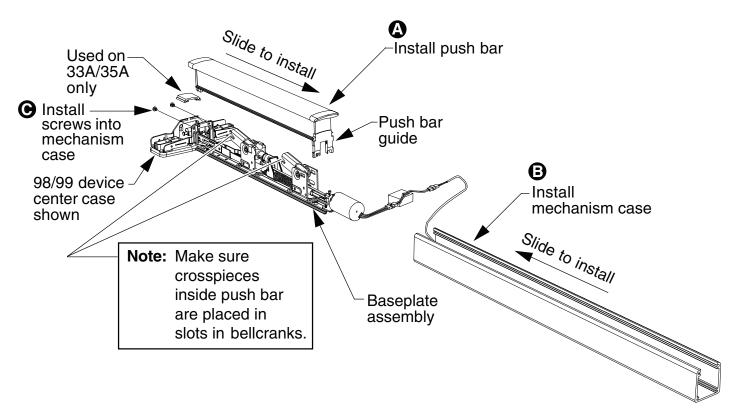




33/35 Device

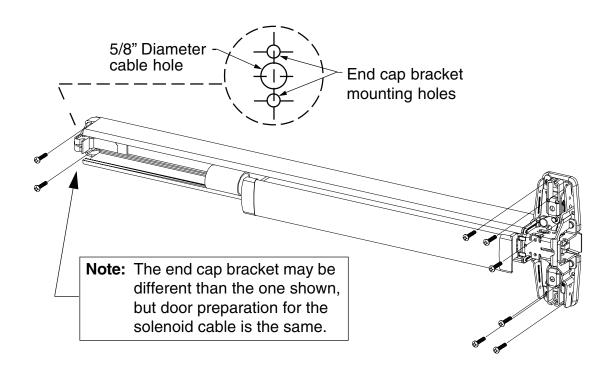


33A/35A & 98/99 Device

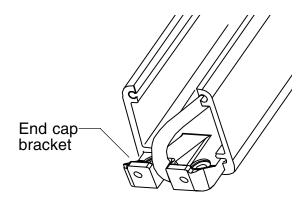


7 Drill solenoid cable hole and install device to door.

- A. Drill 5/8" diameter hole in door centered between end cap bracket mounting holes.
- B. Deburr hole.
- C. Reattach device and trim to door.

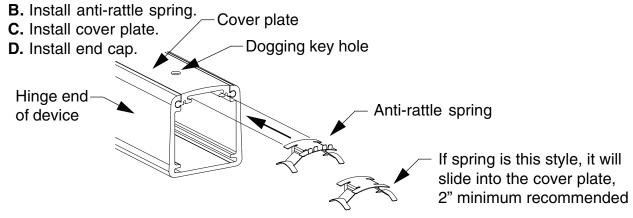


8 Route cable through hole in door.



9 Install cover plate and end cap.

A. If cover plate has a dogging key hole, rotate cover plate so hole is near end cap for standard EL device and near pushbar for HD-EL device.



10 For vertical devices, reattach rods.

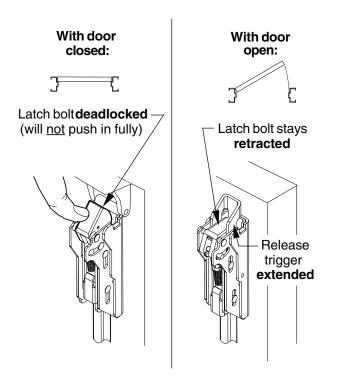
Reattach rods in reverse of when they were detached on pages 3 and 4.

11 Adjust rods as needed on vertical devices (find correct device on page 10 or 11).

9827/9927 Device or 3327A/3527A Device

Adjust top and bottom rod (screw rod into or out of latch) until adjusted as shown.

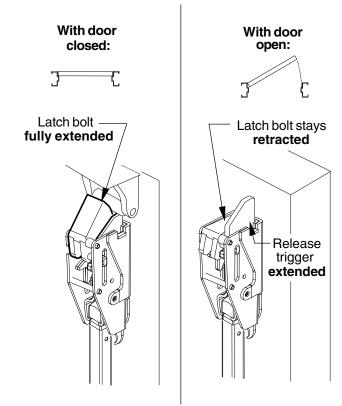
Note: On bottom latch, make sure latch bolt clears floor when door is swung open.



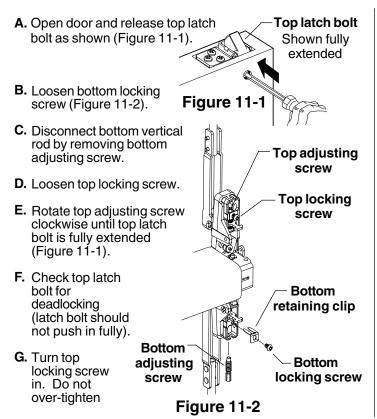
3327/3527 Device

Adjust top and bottom rod (screw rod into or out of center case rod connector) until adjusted as shown.

Note: On bottom latch, make sure latch bolt clears floor when door is swung open.



9847/9947 Device or 3347A/3547A Device

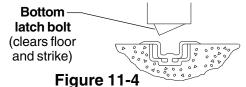


- Latch bolt retracted
 H. Depress pushbar and release. (flush with latch case)
- I. Make sure top latch bolt stays retracted as shown.



Figure 11-3

- **J.** Install bottom adjusting screw, retaining clip, and locking screw (Figure 11-2).
- K. With top latch bolt still retracted, adjust bottom rod so latch bolt clears floor and bottom strike.

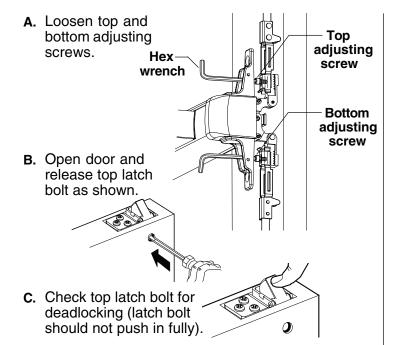


- L. Turn bottom locking screw in. Do not over-tighten.
- M. Close door and push up on bottom latch bolt to verify it is deadlocked (will not push in fully).
- N. Check device operation by opening and closing door several times from the outside.

Redo adjustment procedure if:

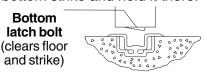
- Top latch bolt is not held retracted
- Bottom latch bolt does not clear floor and bottom strike

3347/3547 Device



D. With top latch bolt still fully extended and pushbar in full up position (not depressed), tighten top adjusting screw.

- **E.** Depress pushbar and release.
- F. Make sure top latch bolt stays retracted as shown.
- Latch bolt retracted (flush with latch case)
 - totroated push
- **G.** With top latch bolt still retracted, push bottom latch bolt up until it clears floor and bottom strike and hold it there.

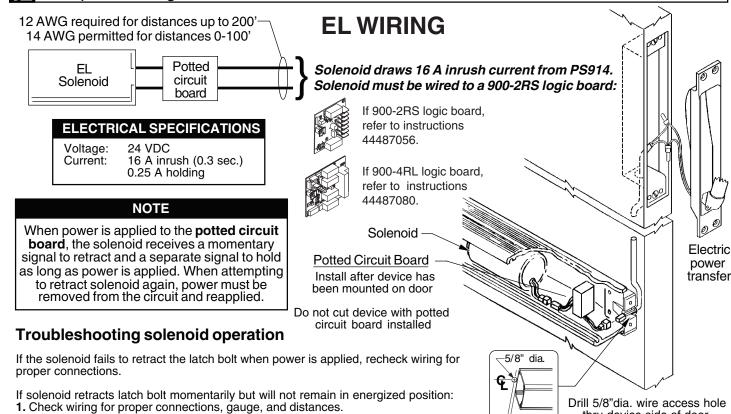


- **H.** Tighten bottom adjusting screw.
- Close door and push up on bottom latch bolt to verify it is deadlocked (will not push in fully).
- J. Check device operation by opening and closing door several times from the outside.

Redo adjustment procedure if:

- Top latch bolt is not held retracted
- Bottom latch bolt does not clear floor and bottom strike

12 Complete wiring.



13 Adjust EL device for proper function.

2. Check for latch bolt binding caused by improper strike installation, warped door, etc.

- A. Check for proper function:
 - 1. Make sure device is not dogged.

Also check adjustment of vertical rods.

- Depress pushbar and make sure latch bolt(s) retracts and extends fully (see Figure 13-1).
- 3. Electrically energize solenoid and hold.
- 4. Check latch bolt(s) for full retraction (must clear strike, see Figure 13-1).
- 5. Release solenoid and check latch bolt extension (see Figure 13-1).
- Continue to Section B if device does not function electrically.
- **B.** Determine if dogging rod adjustment is too long or short:
 - The dogging rod adjustment is too long if latch bolt does not retract and clear strike (see Section C for adjustment).
 - The dogging rod adjustment is too short if latch bolt does not fully extend or latch bolt fully retracts but solenoid releases while energized (see Section D for adjustment).
- C. Adjust solenoid if dogging rod is too long (see Figure 13-2):
 - 1. Remove end cap ① and dogging cover ②.
 - 2. Loosen cap screw 3.
 - 3. Hold plunger ⑤ depressed in solenoid housing ⑥. Note: Push hard against plunger ⑤ to overcome an internal spring in solenoid housing ⑥.
 - Turn threaded bushing ⊕in to shorten dogging rod ② so latch bolt fully retracts.
 - 5. Tighten cap screw 3.

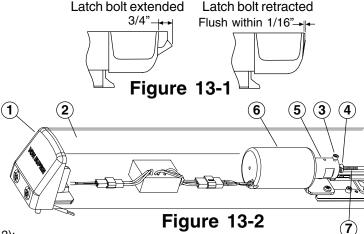
Note: Cap screw® must be tightened against flat on threaded bushing . Apply a few drops of Loc-Tite 222 to threads of cap screw ...

- 6. Replace dogging cover 2 and end cap 1.
- 7. Return to Section A to check for proper function.

Note: Rim device shown, see pages 10 and 11 for verticals

5/16"

thru device side of door.



- **D.** Solenoid adjustment if dogging rod adjustment is too **short** (see Figure 13-2):
 - 1. Remove end cap ① and dogging cover ②.
 - 2. Loosen cap screw3.
 - **3.** Hold plunger ⑤ depressed in solenoid housing ⑥.
 - 4. Turn threaded bushing @out to lengthen dogging rod ② so plunger ⑤ just bottoms in solenoid housing ⑥ and latch bolt is fully retracted. Note: Push hard against plunger ⑤ to overcome

an internal spring in solenoid housing .

5. Tighten cap screw 3.

Note: Cap screw ③ must be tightened against flat on threaded bushing ④. Apply a few drops of Loc-Tite 222 to threads of cap screw ④.

- 6. Replace dogging cover ② and end cap ①.
- 7. Return to Section A to check for proper function.