

911375-00 Surface Vertical Rod Exit Device 98/9927



Installation Instructions





Customer Service	
1-877-671-7011	www.allegion.com/us

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SCREWCHART			
A	()	<ul> <li>Surface mount or Sex bolts (1-3/4" door)</li> </ul>	
	(	— Sex bolts (2-1/4" door)	
	#10 x 1-1/4" Wood screw —	- Surface mount (wood)	
	- Packaged with trim -	– 990 trims (1-3/4" door)	
	(	– 990 trims (2-1/4" door)	
B	() [1][[][[][]]]] #10-24 X 3/4"	<ul> <li>Surface mount or Sex bolts (1-3/4" door)</li> </ul>	
	()	- Sex bolts 2-1/4" door	
	<pre></pre>	- Surface mount (wood)	
C .	(1111115) #10-16 x 3/8" Thread cutting	- Endcap	
	1/4-20 X 3/4"	- 1-3/4" door	
	1/4-20 X 1-1/4"	— 2-1/4" door	
	#10-24 X 3/4"	— Metal frame	
	#10 x 1-1/2" Wood screw	- Wood frame	
6	#10-12 x 10-24 x 1-1/4" Combination —	— Metal or wood frame	
C i	<pre>#10-12 x 10-24 x 1-1/4" Combination</pre>	- Variable floor surfaces	
	#8-32 X 1/4"	- Latch covers	
0	#10-12 x 10-24 x 1" Combination	- Metal or wood door	
	#8-18 x 3/8" Thread cutting	- Center case cover	

# **PREPARATION CHART**

#### Go to instructions on next page before using Preparation Chart









# **CUT TOP ROD**

#### 1. Measure amount to cut off rod as shown below.

Note: Rod cutting is required for doors shorter than 7'.





# **INSTALL ROD EXTENSION**

1. Measure door opening to determine 2. Cut rod amount to cut off rod extension. extension. \*Standard door heights: Drive out 1 Amount to With no extension 7' (84") roll pin cut off With 1' extension 8' (96") 10' (120") With 3' extension 3. Drill new hole. 1/8" dia. \*Rods are factory sized drill thru for door heights shown \*96" Use metal template above. Measure actual supplied with extension OR door opening height and (on both sides of rod) subtract that number from \*120" 96" (for 1' extension) or 120" (for 3' extension) to Actual 4. Reinstall rod end door get amount to cut off and roll pin. opening extension. height 5. Connect top rod and rod extension. Top rod Rod extension





990DT/EO

# VON DUPRIN.

921268-00

Trim for all 98/99 Exit Devices and 330/350 Push Bar

Installation Instructions





Conversion Kit

EL/HD-EL



Installation Instructions



# Read All Warnings Before Starting Installation!

#### Index

- General Information ...... 2
- Specifications ..... 2
- Parts List ..... 2

- EL Wiring and Adjustment ...... 12



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# **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





# 3347/3547 & 3347A/3547A Device





## 33/35 Device





### 4 Remove screws connecting center case to baseplate.









- 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.
- B. Install anti-rattle spring. Cover plate



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.



With door open:





### 2 Complete wiring.



Check for latch bolt binding caused by improper strike installation, warped door, e Also check adjustment of vertical rods.

#### 13 Adjust EL device for proper function.

- **A.** Check for proper function:
  - Make sure device is not dogged.
     Depress pushbar and make sure latch bolt(s)
  - Depress pushear and make sure fatch bol(s) retracts and extends fully (see Figure 13-1).
     Electrically energize solenoid and hold.
  - 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).6. 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.
  - Hold plunger S depressed in solenoid housing S.
     Note: Push hard against plunger S to overcome an internal spring in solenoid housing S.
  - 4. Turn threaded bushing ⊕in to shorten dogging rod ⑦ so latch bolt fully retracts.
  - 5. Tighten cap screw ③.
    - Note: Cap screw<sup>®</sup> must be tightened against flat on threaded bushing<sup>®</sup>. Apply a few drops of Loc-Tite 222 to threads of cap screw<sup>®</sup>.
  - 6. Replace dogging cover@and end cap<sup>①</sup>.
  - 7. Return to Section A to check for proper function.



- **D.** Solenoid adjustment if dogging rod adjustment is too **short** (see Figure 13-2):
  - 1. Remove end cap () and dogging cover (2.
  - 2. Loosen cap screw3.
  - 3. Hold plunger (5) depressed in solenoid housing (6).
  - Turn threaded bushing @ out to lengthen dogging rod ⑦ 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 ⑥.
  - 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 ③.
  - **6.** Replace dogging cover @ and end cap @.
  - 7. Return to Section A to check for proper function.