

33/3547A



911404-00 Concealed Vertical Rod Exit Device

Installation Instructions





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SCREW CHART

	1/4-20 x 1" 1/4-20 x 1-1/2"	Trim mount or sex bolts: (1-3/4" door) (2-1/4" door)
B	() () () () () () () () () ()	Surface mount orSex bolts (1-3/4" door)Sex bolts (2-1/4" door)
6	(1111) #10-16 X 3/8" Thread cutting	—— End cap
D	#10-32 X 1/4"	Bracket to latch
e	() *#10-24 X 1/2"	Bracket to door
	<pre>*#10 X 1" Wood screw *Used with external tooth lock washer</pre>	Bracket to door
G	#10-32 X 3/8" Socket head ————————————————————————————————————	Rod attachment
G	Rod adjusting screw —	Rod length adjustment
Ø , "	(] #8-32 X 5/16"	Retaining clip
	#10-24 X 1/2" —	338 Strike
J	#10-24 X 1-1/2"	Ratchet release
	#8-18 x 3/8" Thread cutting	—— Center case cover







ADJUST RODS

1. Open door and release top 8. Depress pushbar and release. latch bolt as shown (Figure 1). 9. Make sure top latch bolt stays Shown fully retracted as shown. **Top latch bolt** extended Latch bolt retracted (flush with latch case) Figure 3 **10.** Install bottom adjusting screw through bottom rod and install bottom retaining clip and locking screw (Figure 2). Figure 1 11. With top latch bolt still retracted, adjust bottom rod so latch bolt clears floor and bottom strike. 2. Remove bottom locking Bottom screw and retaining clip latch bolt (Figure 2). (clears floor and strike) 3. Disconnect bottom vertical Figure 4 rod by removing bottom Top adjusting screw. adjusting 12. Close door and check bottom latch bolt for dead locking. screw After bottom rod is fully adjusted per steps 11 and 12, turn bottom locking screw in against 4. Loosen top locking screw. 13. Top flat on adjusting screw. Do not over-tighten. locking 5. Rotate top adjusting screw screw clockwise until top 14. Check device operation by opening and closing latch bolt is fully extended door several times from the outside. (Figure 1). Redo adjustment procedure if : Figure 2 - Top latchbolt is not held retracted - Bottom latchbolt does not clear floor and bottom strike **Bottom** retaining clip 15. Install end cap and center case covers. Bottoma adjusting Bottom screw locking screw Check top latch bolt for deadlocking 6. (latch bolt should not push in). Remove protective film from pushbar 0 7. Turn top locking screw in against flat on adjusting screw. Do not over-tighten.

FRAME PREPARATION

338 Top strike



Ratchet release



OPTIONAL EQUIPMENT

CD (CYLINDER DOGGING)

- **1.** Remove mortise cylinder cam and reinstall in reverse (Figure 1).
- 2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).
- **3.** Remove key to slide cover plate in position in the mechanism case.



Dogging procedure



Offset toward pushbar Dogging plate cover Cylinder Cylinder Cylinder Cylinder Cylinder lock nut Cylinder lock nut

Figure 2

BACKSET INFORMATION



SPECIAL INSTRUCTIONS FOR 2" STILE DOORS



For 2" stile doors ONLY! Latch \mathcal{Q} is offset 1/8" from Device \mathcal{Q} as shown

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WOOD DOOR PREPARATION - DOOR ROUTING



see trim or control instruction sheet.

3. Door edging should be installed after device installation.

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WOOD DOOR PREPARATION - DOOR BLOCKING AND WRAP

A. Install door blocking. See page 13 for door blocking dimensions.

Note: If not using door wrap, the blocking can be installed after device is installed.



B. Install door wrap if needed. Door wrap is required for Fire rated (F) devices.

Note: Required on fire doors only, not supplied by Von Duprin (See door manufacturer's requirements)



Door wrap







Conversion Kit

EL/HD-EL



Installation Instructions



Read All Warnings Before Starting Installation!

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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 pushed 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[®] 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@and end cap^①.
 - 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 1 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 ② and end cap ①.
 - 7. Return to Section A to check for proper function.