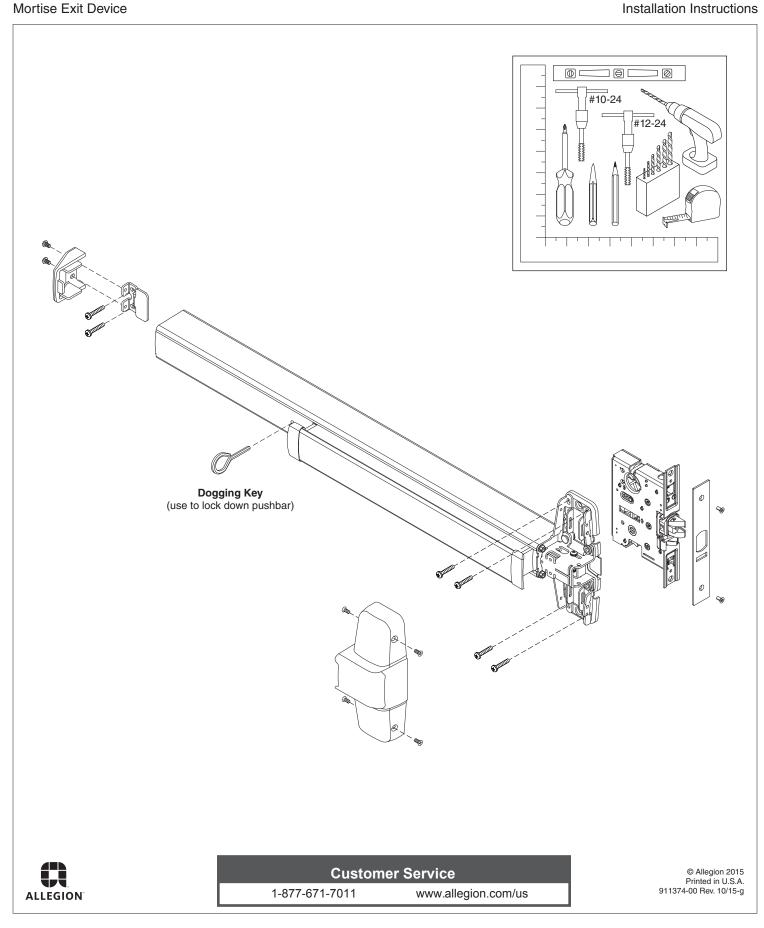


# 9875/9975

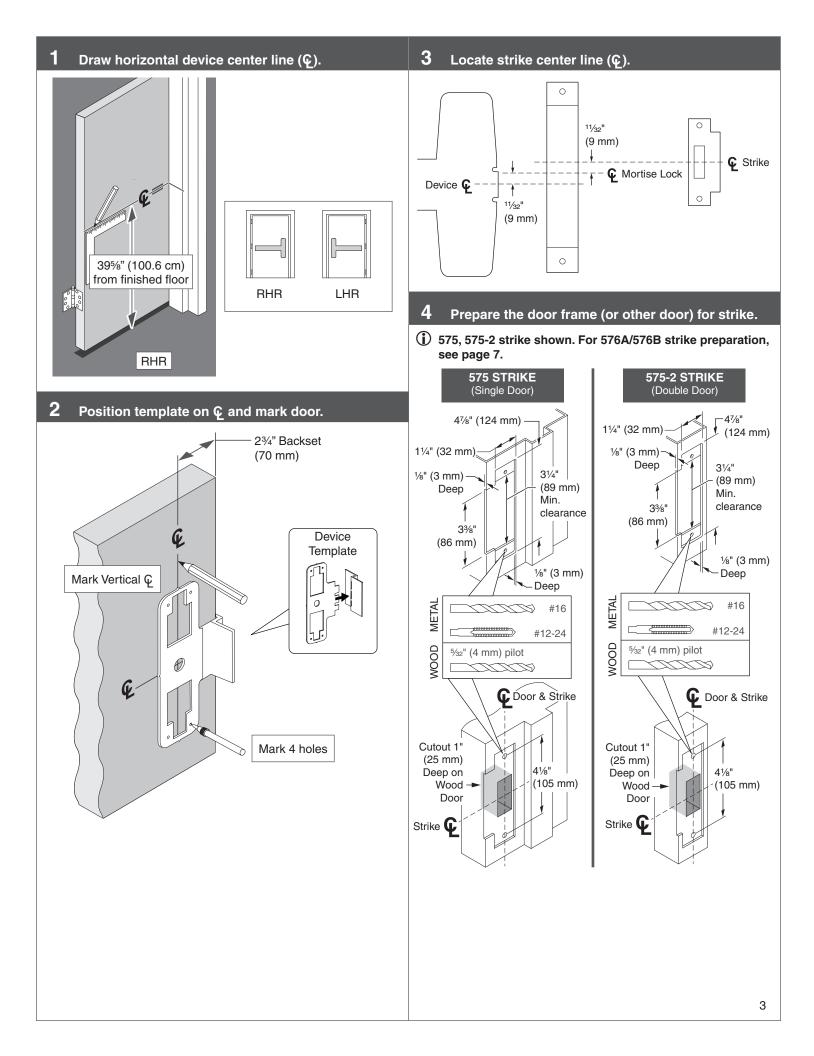


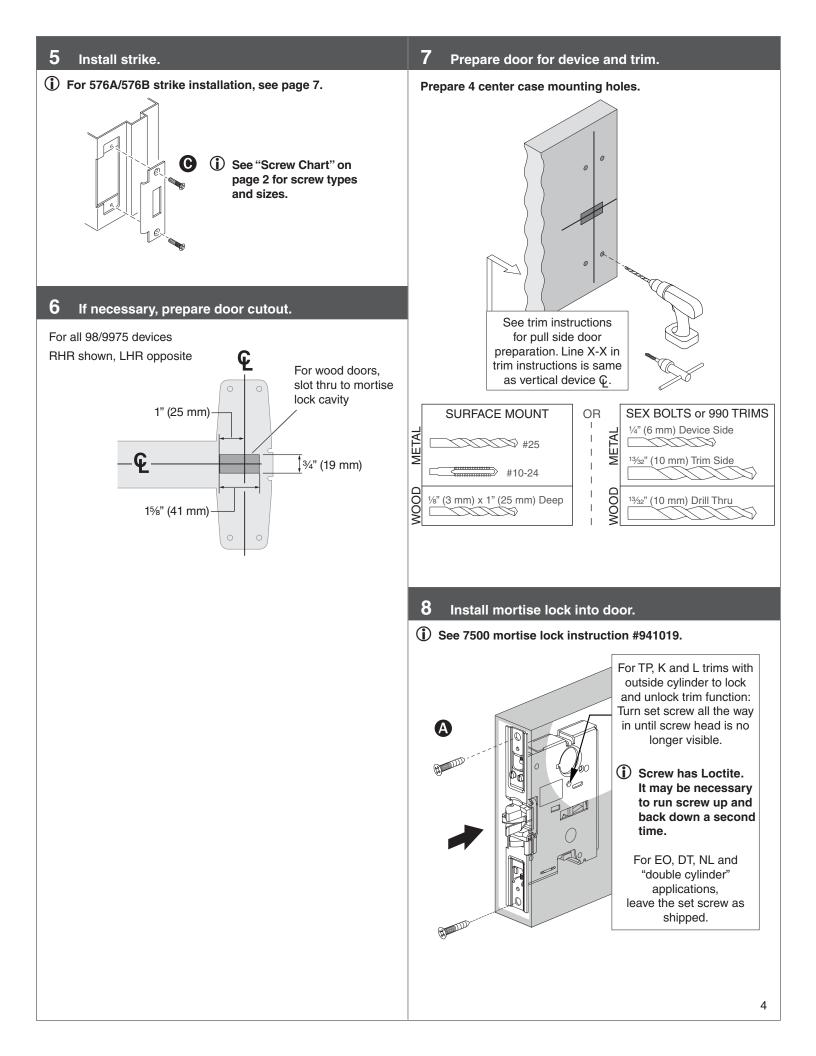
Installation Instructions



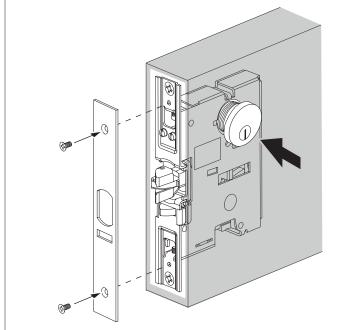
#### **SCREW CHART**

Subassembly	Screw		Application
		#12-12 x 12-24 x 1" (25 mm) Combination	Metal or wood door
8		#10-24 x 1" (25 mm)	Surface mount or Sex bolts 13/4" (44 mm) door
		#10-24 x 11⁄2" (38 mm)	Sex bolts, 21⁄4" (57 mm) door
8mm-		#10 x 11/4" (32 mm) Wood screw	Surface mount (wood)
0 <sup>22</sup>	Packaged with 990 Trims:	#10-24 x 1⅔" (35 mm)	1¾" (44 mm) door, 990 Trim
		#10-24 x 11/8" (48 mm)	2¼" (57 mm) door, 990 Trim
S75 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
974 - X		#10 x 1¼" (32 mm) Wood screw	Surface mount (wood)
<b>e a</b>		#10-16 x %" (10 mm) Thread cutting	End cap
		#8-18 x %" (10 mm) Thread cutting	Center case cover

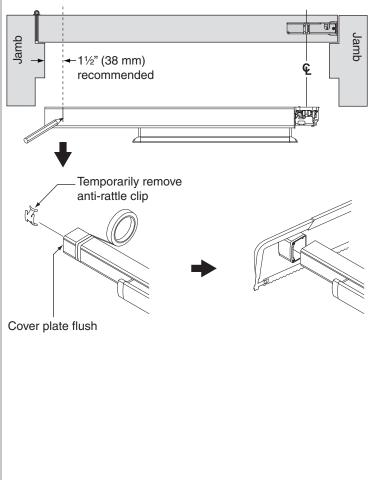




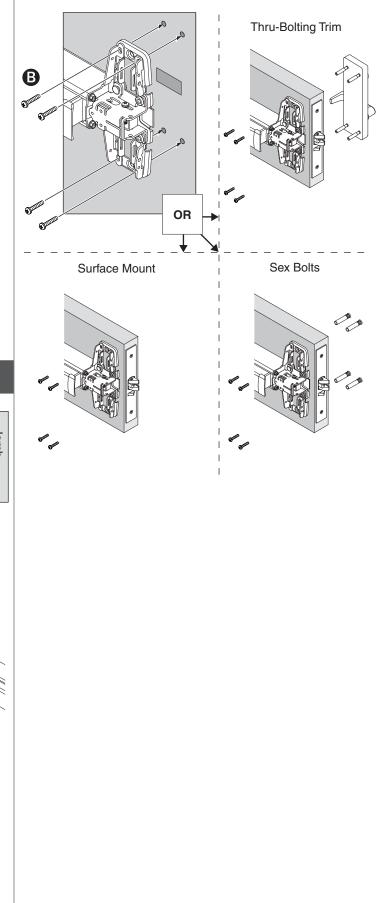
- 9 Install outside locking cylinder (if using) and complete installation of mortise lock.
- (i) See 7500 mortise lock instruction #941019.



# **10** If necessary, cut device.

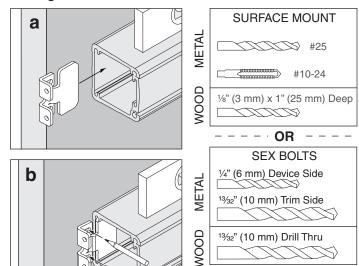


11 Install trim (if using) and attach center case to door.



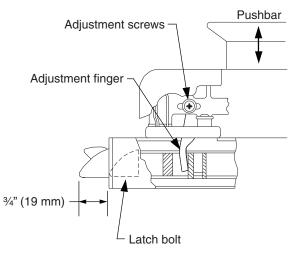
## 12 Mark and prepare two holes for end cap bracket.

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



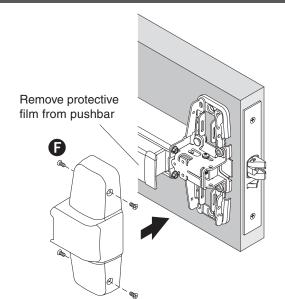
# 14 Adjust latch bolt.

#### **TOP VIEW**



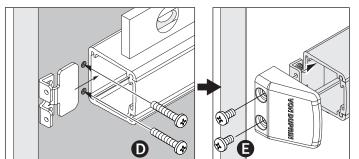
Loosen adjustment screws and adjust finger in or out until latch bolt is fully retracted (with pushbar down) and fully extended 3/4" (with pushbar up).

#### **15** Install center case cover.

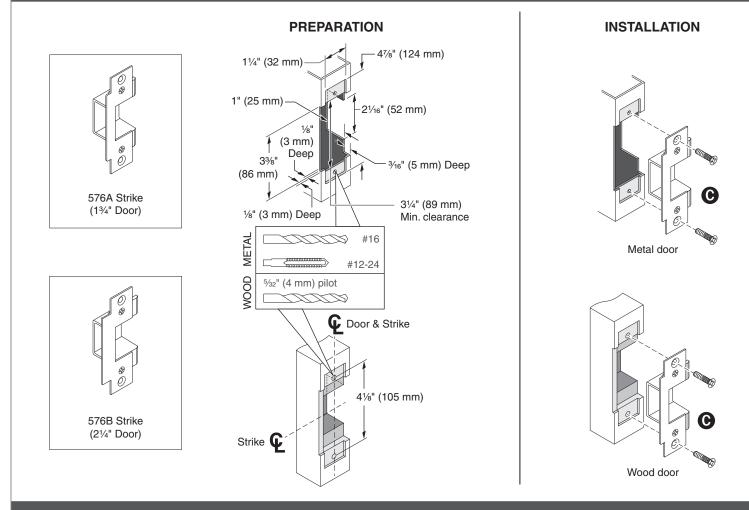




С

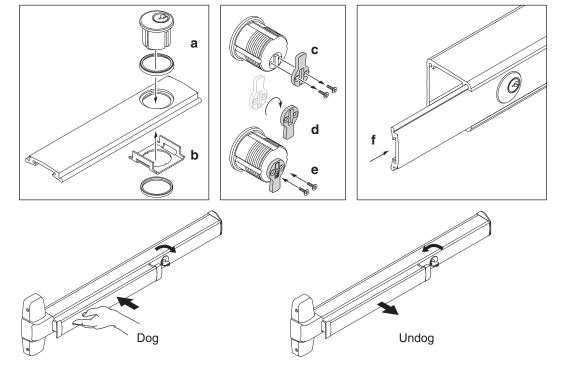


#### 576A/576B STRIKE PREPARATION & INSTALLATION



#### **OPTIONAL EQUIPMENT**

### **CD (Cylinder Dogging) Option**



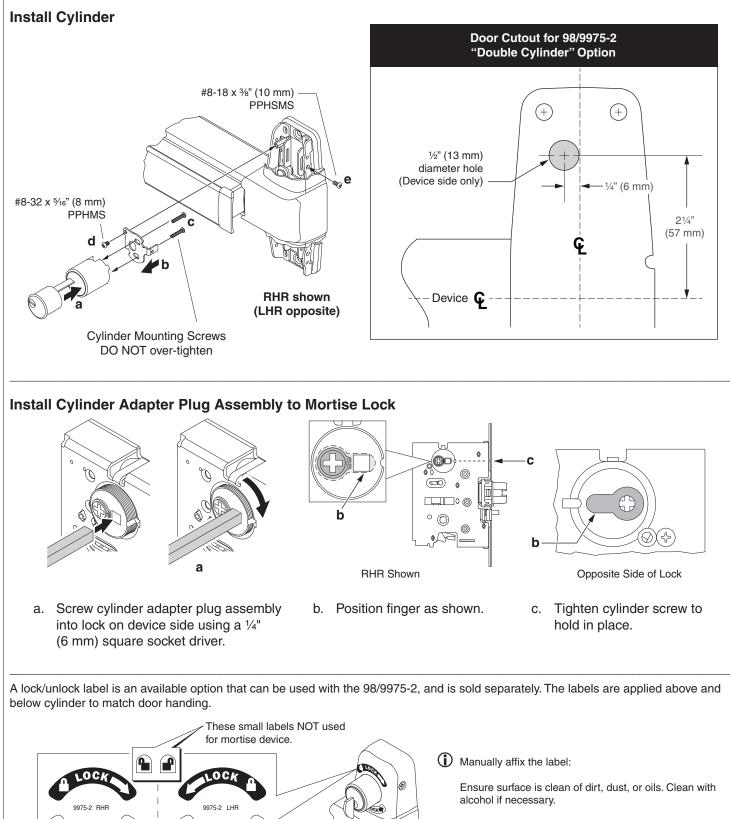
#### **OPTIONAL EQUIPMENT (98/9975-2 DOUBLE CYLINDER)**

Peel and stick appropriate set of labels depending on door handing. Stick labels above and below cylinder.

NLOCY

UNLOC

RHR shown



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.



3. Apply trim.

### 921270-00

#### Trim for 98/9975 Mortise Lock Device

Installation Instructions

**VON DUPRIN** 

#### Line X-X corresponds to line X-X on exit device instructions **TP TRIM TP-BE TRIM** NL TRIM 13/32" dia., 4 places 13/32" dia., 4 places 13/32" dia., 4 places **INSTALLATION INSTRUCTIONS** Metal door: this side Metal door: this side Metal door: this side Wood door: thru Wood door: thru Wood door: thru **ALL TRIM** 1. Prepare door for exit device. See exit device instructions for holes, line X-X, 1-3/8"-1-3/8"-1-3/8" 1-3/8"-and center lines. -11/16" <−11/16″ **←**11/16″ **◄**—11/16″ Metal door: ∠ Metal door: 1/4″ dia. **2.** Prepare door for trim: this side 4 places Wood door: 3/4" deep Cutout Metal door: this side A. Transfer line X-X from inside (exit Wood door: 3/4" deep 1-5/8" device side) of door to outside 2-1/4" 2-1/4" dia. (trim side) of door. Use extra care if Ç edge of door is beveled. Be sure line 1″ 1″ Corresponds to –1-5/8″ dia. X-X is parallel to edge of door. 3-1/2" 3-1/2" 3-1/2" 3-1/2" Metal door: this side center line of Wood door: 3/4" deep 3-1/4" exit device on 3-1/4" **B.** Locate and prepare holes as shown. exit device -(†)--0 instructions -1/2" rad. - 1/2" rad. 5-23/32" 5-23/32" TP **TP-BE** 5-23/32" 5-23/32" NL ALL 4. Apply exit device, thru-bolt to trim TRIM TRIM TRIM TRIM (4 places), and use screw and #12 -7/16″ dia. — 7/16″ dia. /−7/16″ dia. countersink washer for lower trim Metal door: this side Metal door: this side Metal door: this side mounting stud. Wood door: thru Wood door: thru Wood door: thru ∽Metal door: 3/8″ dia. Inside face Outside face 🗸 Outside face 🗸 Outside face 🗸 of lock stile of lock stile 👗 of lock stile 👗 of lock stile LHR shown, RHR opposite For cutouts on inside face of door, see exit device instructions

990TP/TP-BE/NL







24908386

#### Conversion Kit

# QEL 33A/35A, 98/99 Series

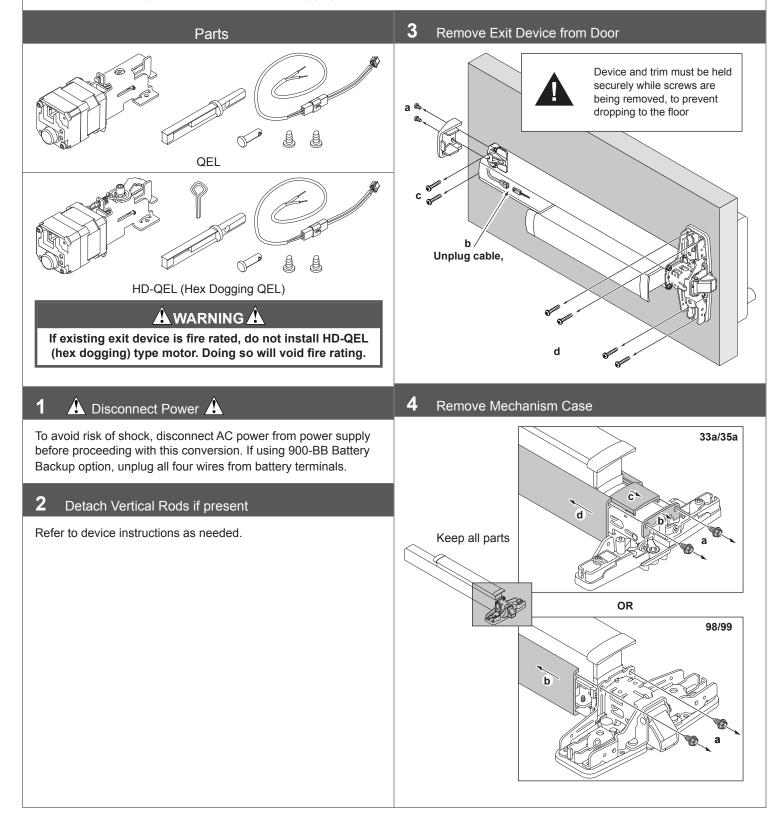
# VON DUPRIN.

Installation Instructions

This kit can also be used for motor replacement on existing QEL devices.
Install according to instructions or device will not function and panic or fire label will be void.
The QEL wiring must be attached to the fire alarm system if installed on fire exit hardware.

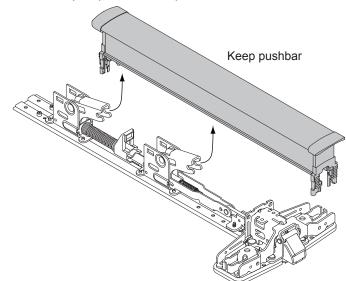
1. This kit converts all 33/35A and 98/99 series mechanical exit devices to quiet electric latch (QEL) retraction devices.

5. If existing device is fire rated or less dogging a QEL baseplate conversion kit is required.

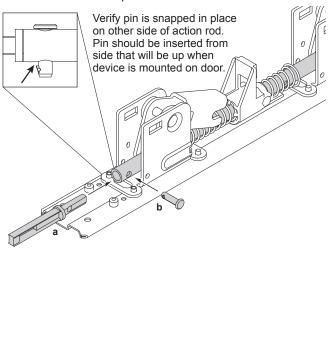


#### FIRE OR LESS DOGGING DEVICE (Applies to exit devices built after October 2014. Baseplate conversion kit required for earlier devices.)

1. Remove pushpad from baseplate.

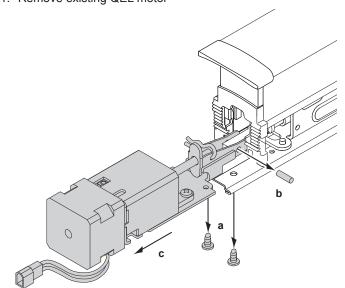


2. Install connector and pin.

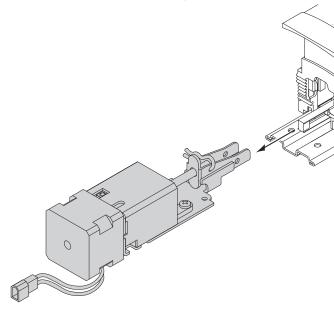


#### **QEL DEVICE (built prior to December 2014)**

1. Remove existing QEL motor

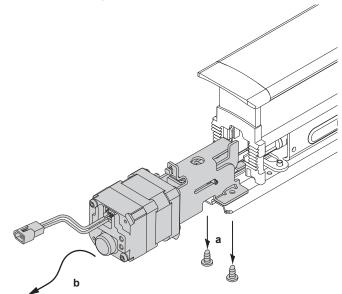


2. Discard old QEL motor assembly.

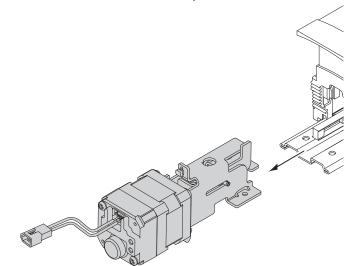


#### QEL DEVICE (built after December 2014)

1. Remove existing QEL motor.

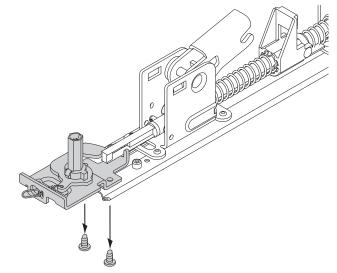


2. Discard old QEL motor assembly.

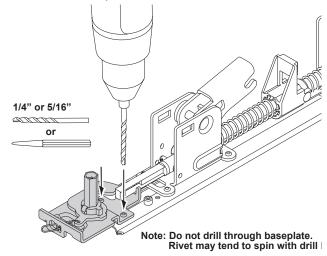


#### PANIC DEVICE (with dogging assembly)

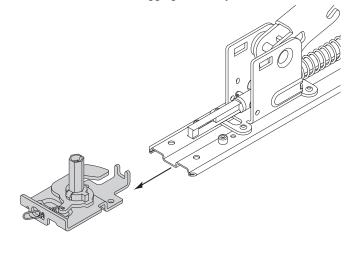
1. Remove two screws from dogging assembly. If riveted see below.

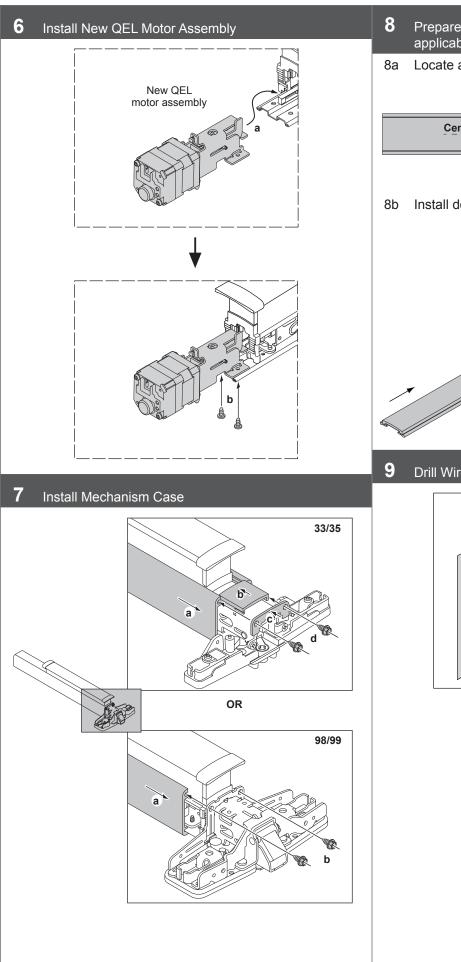


2. Drill or use center punch on two rivet heads until rivets can be removed from baseplate.



3. Remove and discard dogging assembly.

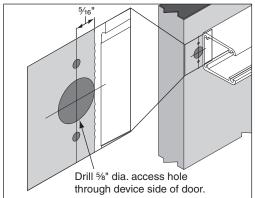


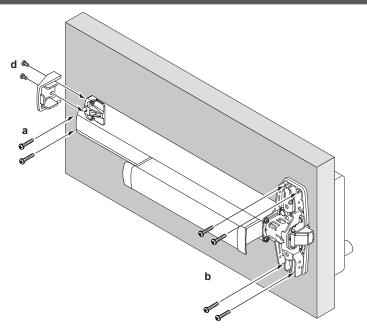


8 Prepare dogging cover for HD dogging key (if applicable and only on panic devices).

8a Locate and drill hole 1/4" Center of Cover Deburr edge of hole 1 1/2" 8b Install dogging cover

9 Drill Wire Access Hole (if required)



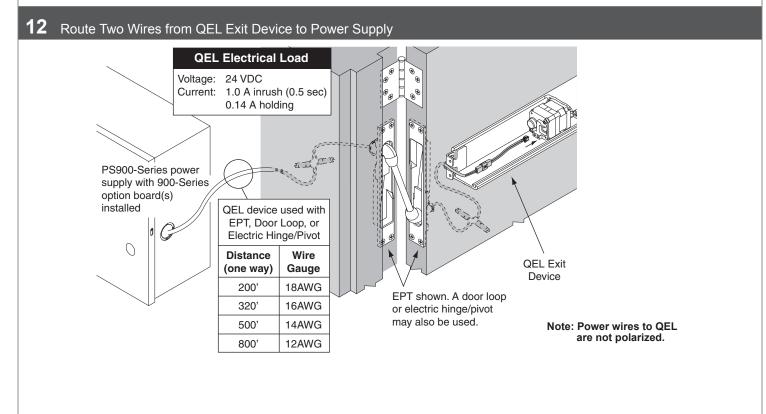


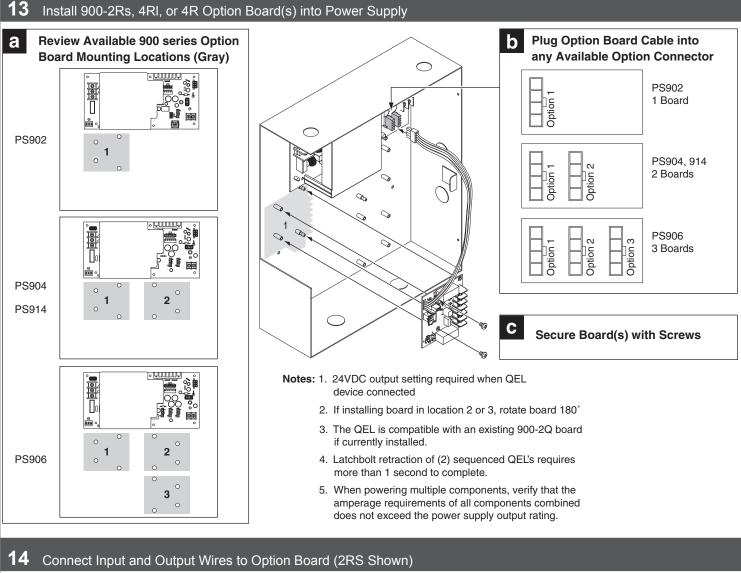
For more detailed installation instructions for specific Exit Devices, visit the Support area of the Allegion website at www.allegion.com/us

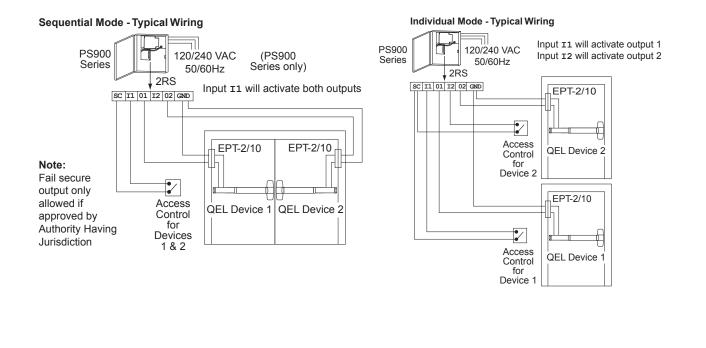
### **11** Confirm Equipment Compatibility

The QEL is compatible with the following equipment (refer to individual instructions as needed):

- PS900-SERIES Power Supplies PS902, PS904, PS906, PS914
- 900-SERIES Option Boards 900-2RS, 900-4R, 900-4RL, 900-2Q
- PS873 Power Supply Plus 871-2, 871-2Q, 873-4TD/AO Option Boards







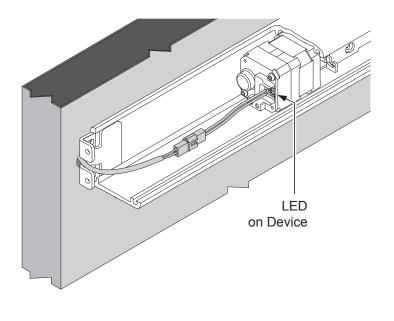
### 15 Check Operation

- A. Activate each input and verify all QEL devices operate properly.
- B. If any device does not operate properly, see step 16 for troubleshooting.

## **16** If Necessary, Troubleshoot Operation (LED is only visible with the mechanism cover removed)

Power at the QEL	QEL Response	Condition/Solution	
0.01/200	LED - Solid green Latchbolt - retracted	Operation normal, latch retracted immediately	
	LED - Solid red after latchbolt attempts to retract multiple times	Latchbolt cannot fully retract mechanically	
		Verify mechanical adjustment (on vertical rod or mortise lock devices if used). Remove and reapply input voltage to reset this condition.*	
24VDC		See Check Mechanical Operation on page 8 as needed.**	
	LED - Flashing green/red Latchbolt - not retracted	Excessive tamper (while power applied, the pushpad was pulled out at least 3 time)	
		Wait 15 seconds and latchbolt will retract again OR remove and reapply power to clear condition	
24VDC low	LED - Flashing green Latchbolt - retracted	Voltage low during latchbolt retraction (latchbolt retracts at reduced force) Wire length is too long, wire gauge is too small or power supply has poor regulation	
29VDC or		Input voltage is too high for proper operation	
greater		Wrong power supply, power supply defective.	
	LED- Flashing red Latchbolt - will not retract	Input voltage is too low for proper operation	
13VDC or lower		Wrong power supply, power supply defective or not set to the proper output voltage.	
		To set, remove AC power from power supply, change power supply setting from 12 to 24VDC, then reapply AC power and verify proper operation.	
0VDC	LED - off	No input voltage	
0000	Latchbolt - not retracted	Problem with the power supply, control switch or wiring	
0VDC	LED - off	No input voltage	
0,00	Latchbolt - retracted	Mechanical dogging is engaged	

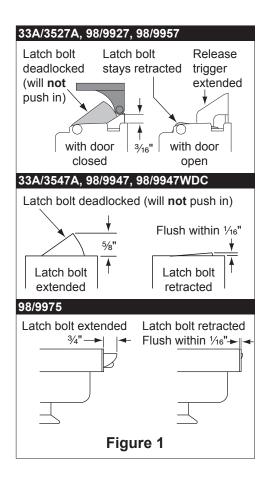
\*For information about adjusting exit devices, you can find their installation instructions in the support area at www.allegion.com/us or call Technical Services at 1-877-671-7011



#### **17** Check Mechanical Operation

33A/3527A	98/9927	98/9947WDC
33A/3547A	98/9947	98/9957
		98/9975

- 1. Make sure device is not dogged for SD-QEL / HD-QEL.
- 2. Depress pushbar and make sure latch bolt retracts and extends fully (see Figure 1).
- 3. If latch bolt does not retract or extend fully, adjustments may be required per the device installation instructions.



33/3549A	98/9949	
33/3550A-WDC	98/9949WDC	
	98/9950WDC	

- 1. Make sure device is not dogged for SD-QEL/HD-QEL.
- Depress pushbar. Door should begin to open with pushbar depressed halfway.
- 3. Close door. Top latch should be secure. If two point latch, bottom latch should be secure as well.
- If device does not function as described in steps 2 and 3, adjustments may be required per the device installation instructions.

#### Any HD Device

- 1. Fully depress pushbar.
- 2. Insert hex dogging key and turn clockwise.
- 3. Release pushbar and verify latchbolt remains retracted.
- 4. Fully depress pushbar.
- 5. Insert hex dogging key and turn counter clockwise.
- 6. Release pushbar and verify latchbolt extends fully.