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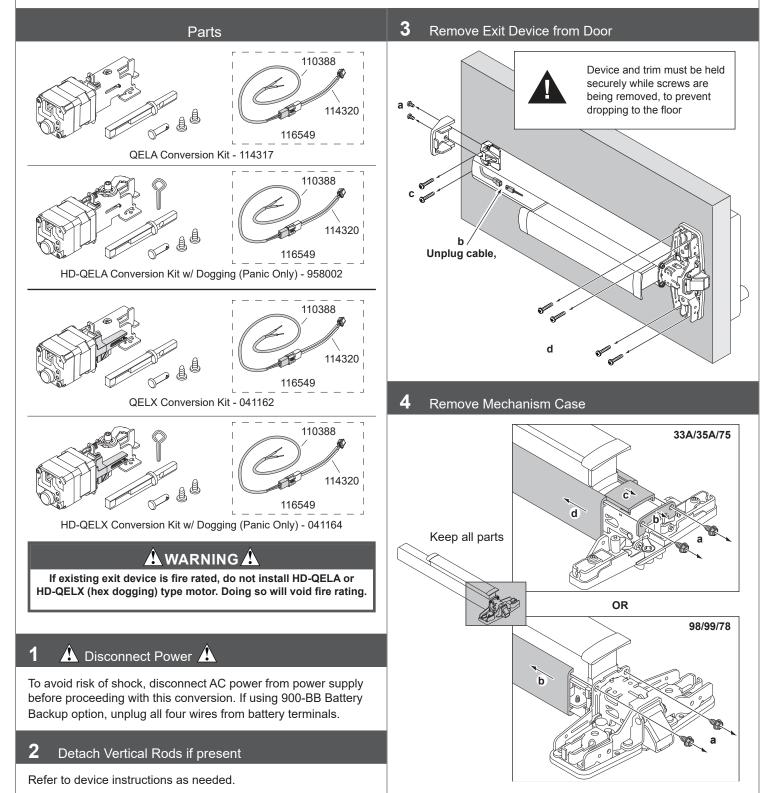
Conversion Kit

QELA 33A/35A, 75, 78, & 98/99 Series

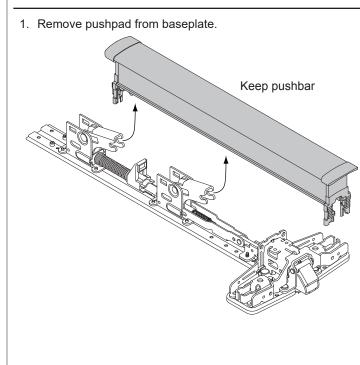
VON DUPRIN.

Installation Instructions

- This kit converts all 33A/35A, 75, 78, and 98/99 series mechanical exit devices to quiet electric latch (QELA) retraction devices.
 QELX and HD-QELX Kits are only for use with Von Duprin AX98/99, AXXP98/99, AX33A/35A, AX75, and AX78 exit devices.
 - 3. This kit can also be used for motor replacement on existing QELA devices.
 - 4. Install according to instructions or device will not function and panic or fire label will be void.
- 5. The QELA wiring must be attached to the fire alarm system if installed on fire exit hardware.
- 6. If existing device is fire rated or less dogging a QEL baseplate conversion kit is required.

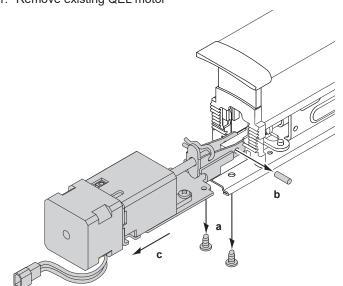


FIRE OR LESS DOGGING DEVICE (Applies to exit devices built after October 2014. Baseplate conversion kit required for earlier devices.)



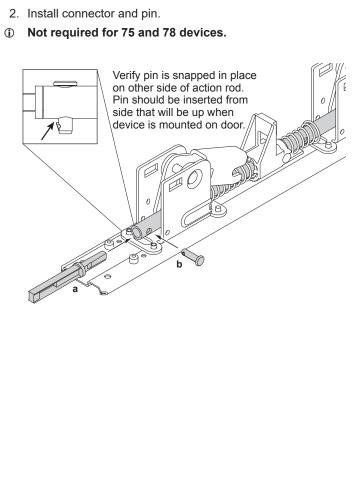
QEL DEVICE (built prior to December 2014)

1. Remove existing QEL motor



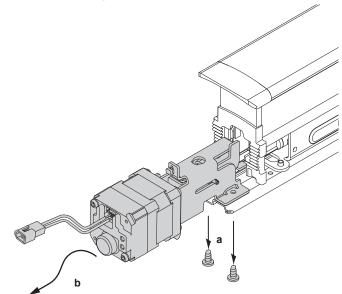
2. Discard old QEL motor assembly.

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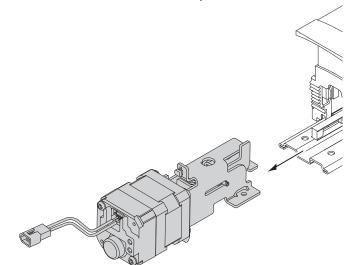


QELA DEVICE (built after December 2014)

1. Remove existing QELA motor.

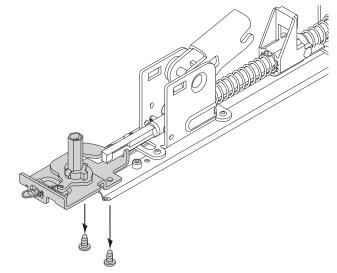


2. Discard old QELA motor assembly.

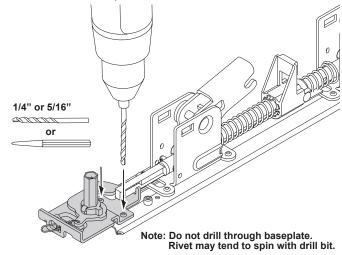


PANIC DEVICE (with dogging assembly)

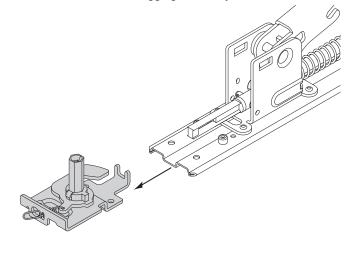
1. Remove two screws from dogging assembly. If riveted see below.

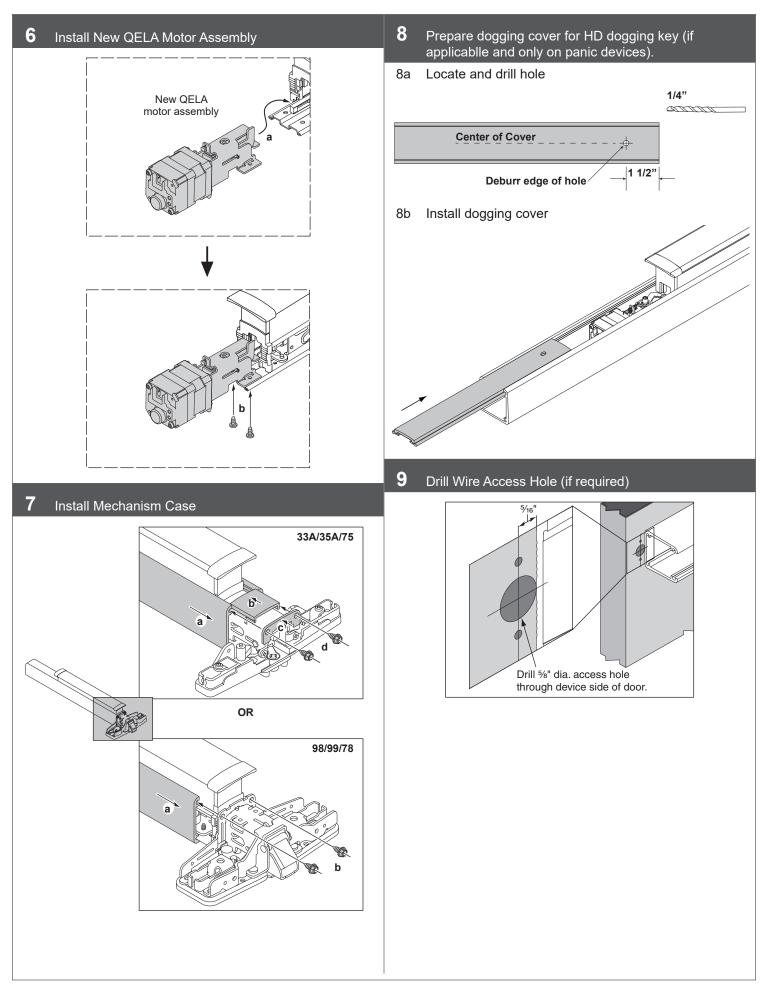


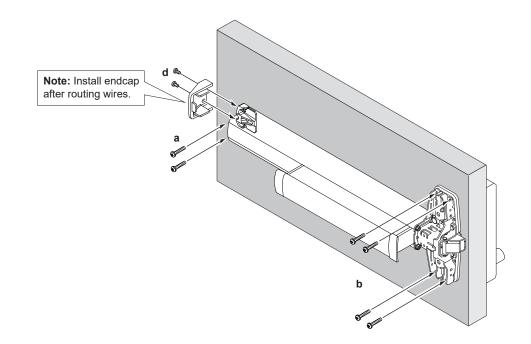
2. Drill or use center punch on two rivet heads until rivets can be removed from baseplate.



3. Remove and discard dogging assembly.







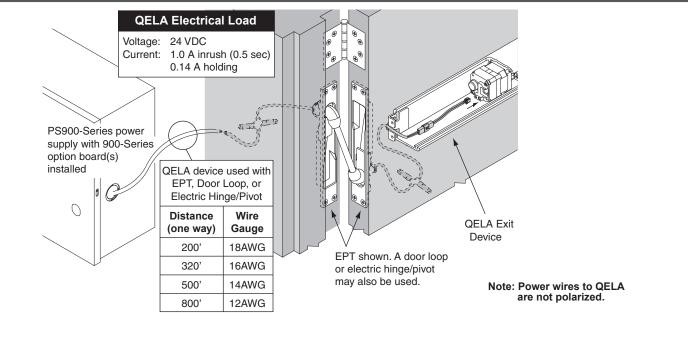
For more detailed installation instructions for specific Exit Devices, visit the Support area of the Allegion website at www.allegion.com/us

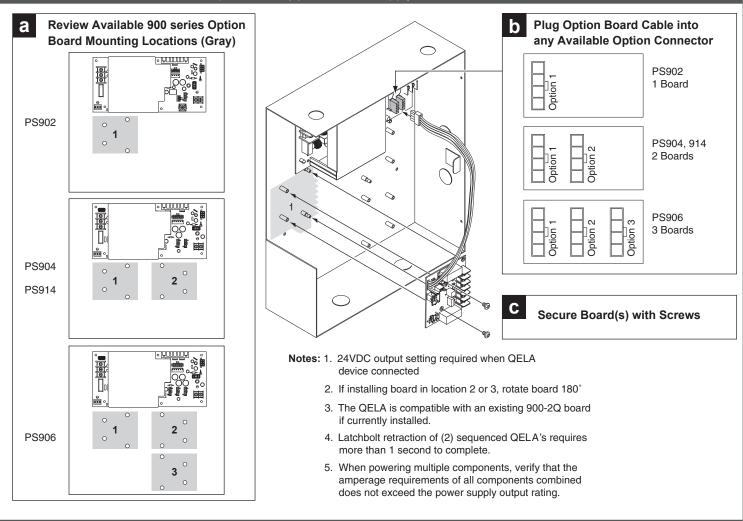
11 Confirm Equipment Compatibility

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

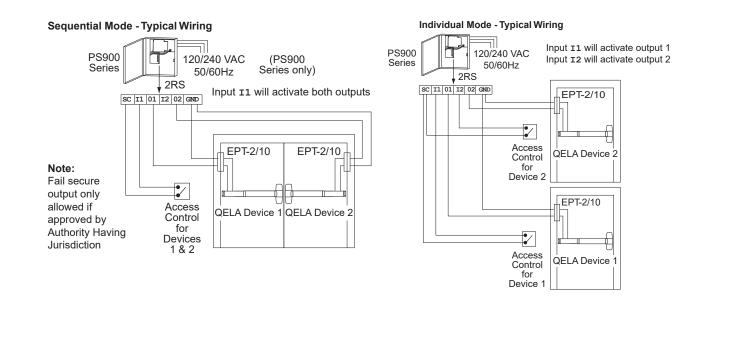
- PS900-SERIES Power Supplies PS902, PS904, PS906, PS914
- 900-SERIES Option Boards 900-2RS, 900-4R, 900-4RL, 900-2Q
- PS873 Power Supply Plus 871-2, 871-2Q, 873-4TD/AO Option Boards

12 Route Two Wires from QELA Exit Device to Power Supply





Connect Input and Output Wires to Option Board (2RS Shown)



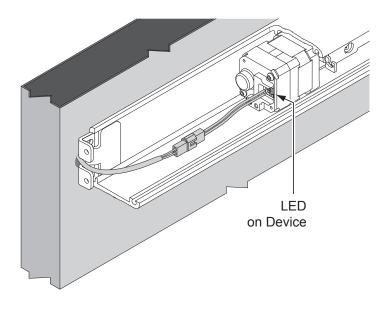
15 Check Operation

- A. Activate each input and verify all QELA 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 QELA	QELA Response	Condition/Solution
24VDC	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.*
		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
	Latchbolt - retracted	Mechanical dogging is engaged

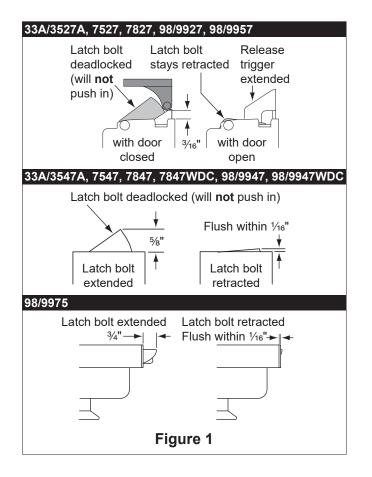
*For information about adjusting exit devices, you can find their installation instructions in the support area at www.allegion.com/us or call Technical Services at 1-877-671-7011



17 Check Mechanical Operation

33A/3527A	98/9927	98/9947WDC
33A/3547A	98/9947	98/9957
7527	7827	98/9975
7547	7847	7847WDC

- 1. Make sure device is not dogged for SD-QELA / HD-QELA.
- 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-QELA/HD-QELA.
- 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.

