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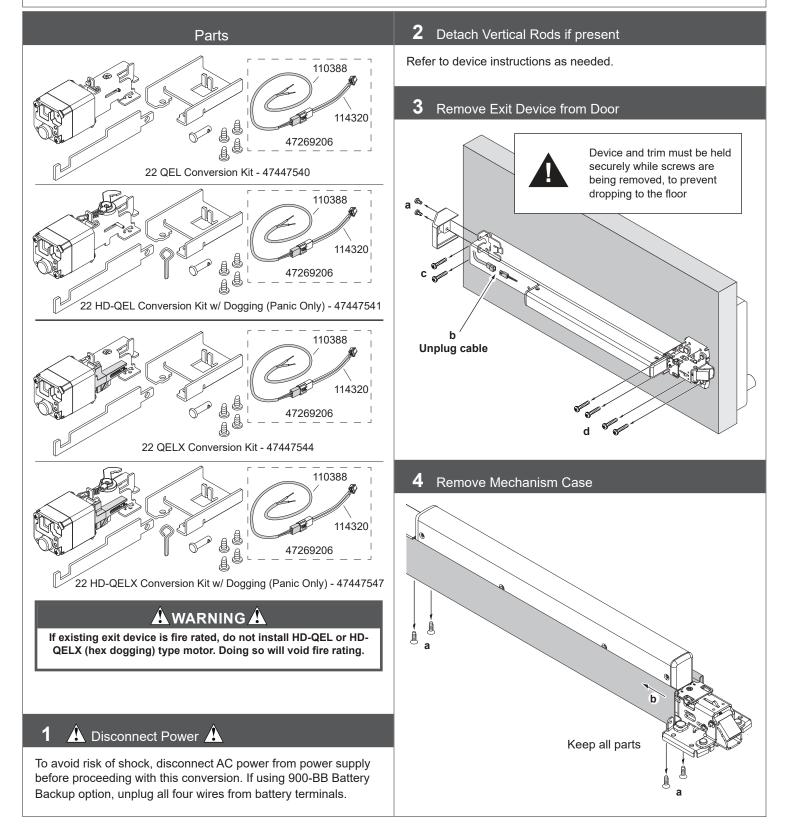
QEL 22 Series

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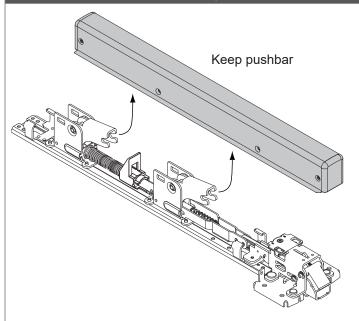
Installation Instructions

Conversion Kit for devices built after Dec. 2021

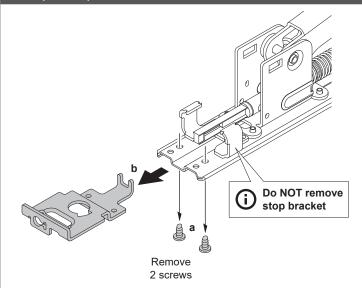
- This kit converts all 22 Series mechanical exit devices to quiet electric latch (QEL) retraction devices.
- 2. This kit can also be used for motor replacement on existing QEL devices.
- 3. Install according to instructions or device will not function and panic or fire label will be void.
 - 4. The QEL wiring must be attached to the fire alarm system if installed on fire exit hardware.
 - 5. If existing device is fire rated or less dogging a QEL baseplate conversion kit is required.



5 Remove Pushbar from Baseplate



6 Remove (2) Screws Securing Dogging Assembly (if present)

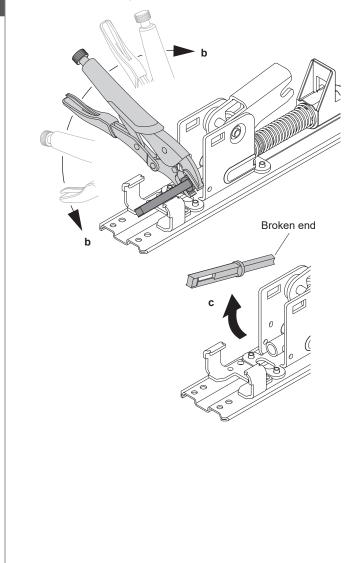


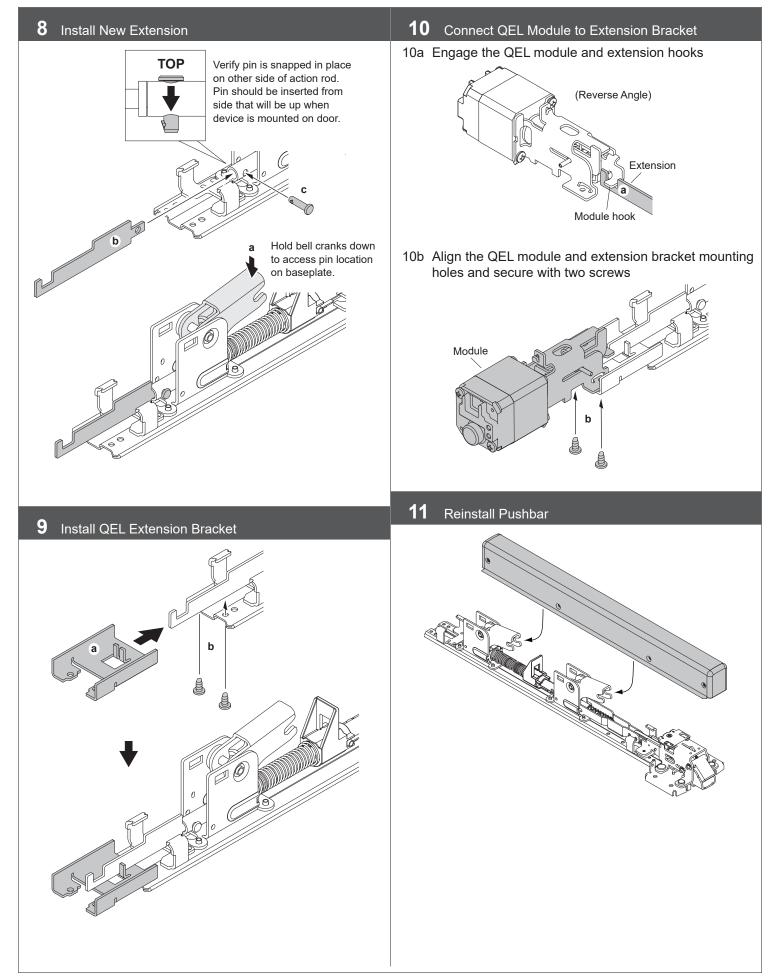
7 Remove Rod Extension with Locking Pliers

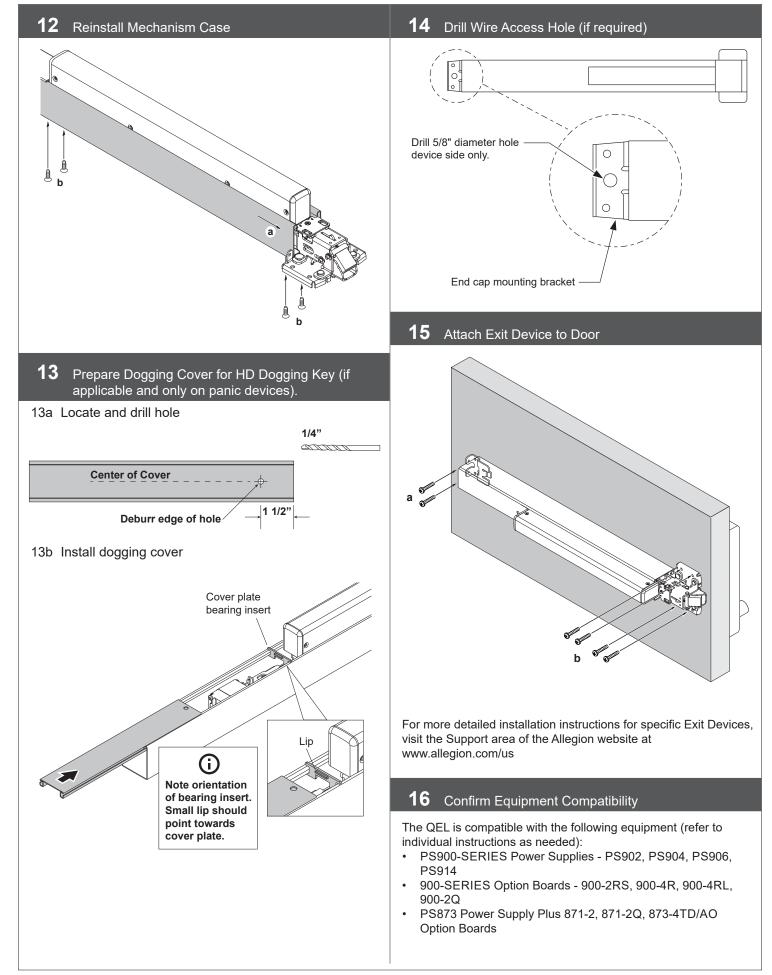
After placing device on a sturdy work surface, clamp locking pliers on round end of rod extension.

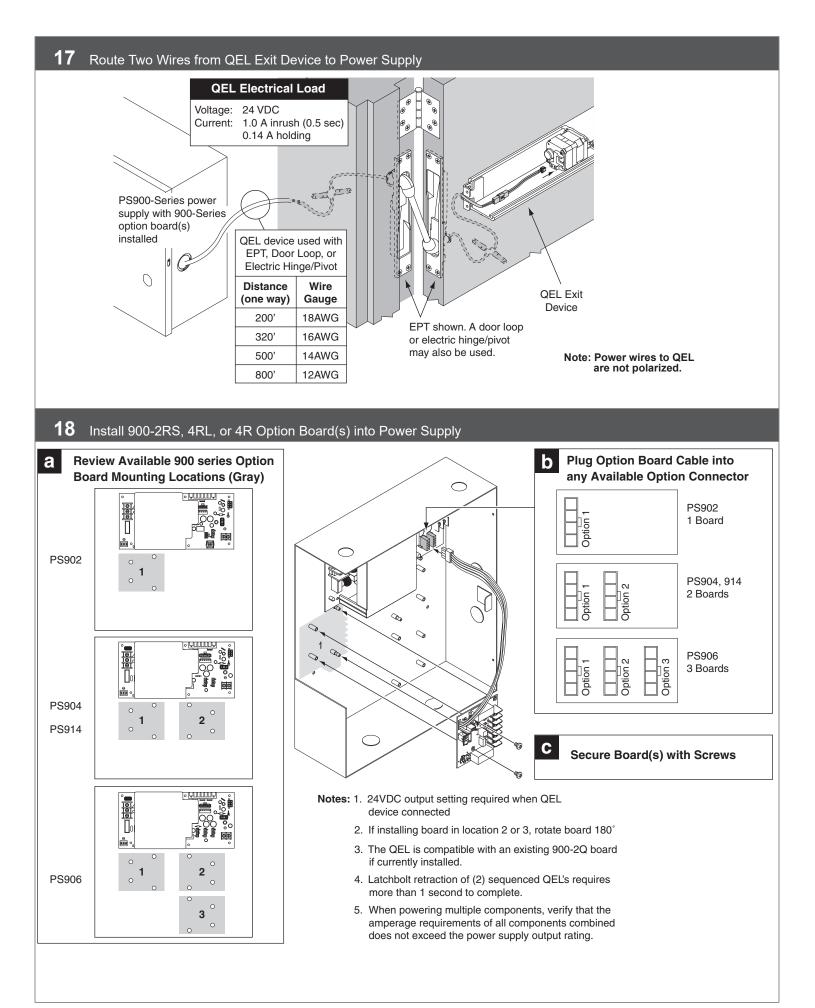
Round end pliers Pin (shear point) Rod extension Locking pliers must be clamped tight to round end of rod extension

Use pliers to turn rod extension back and forth until rod extension breaks off at pin

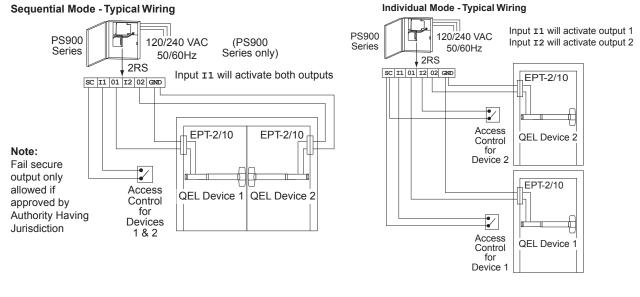








19 Connect Input and Output Wires to Option Board (2RS Shown)



Sequential Mode - Typical Wiring

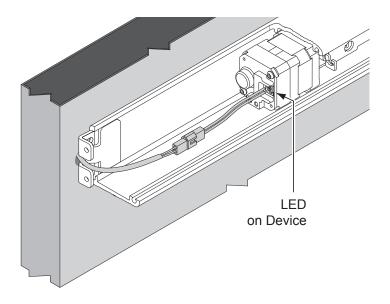
20 Check Operation

20a Activate each input and verify all QEL devices operate properly.

20b If any device does not operate properly, see Step 21 for troubleshooting.

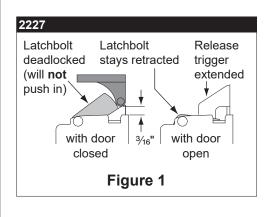
Power at the QEL	QEL Response	Condition/Solution
24VDC	LED - Solid green Latchbolt - retracted	Operation normal, latch retracted immediately
	LED - Solid red after latchbolt attempts to retract multiple times	Latchbolt cannot fully retract mechanically
		Verify mechanical adjustment (on vertical rod 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 pushbar 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	LED- Flashing red Latchbolt - will not retract	Input voltage is too high for proper operation
greater		Wrong power supply, power supply defective.
		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
	Latchbolt - not retracted	Problem with the power supply, control switch or wiring
0VDC	LED - off	No input voltage
	Latchbolt - retracted	Mechanical dogging is engaged

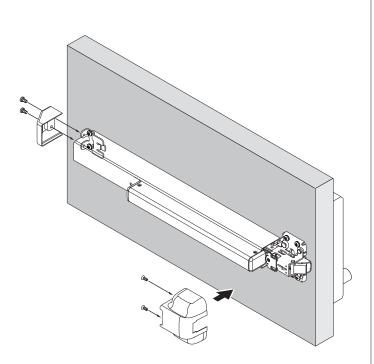
*For information about adjusting exit devices, you can find their installation instructions in the support area at www.allegion.com/us or call Technical Services at 1-877-671-7011



22 Check Mechanical Operation

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- 1. Make sure device is not dogged for HD-QEL.
- 2. Depress pushbar and make sure latchbolt retracts and extends fully (see Figure 1).
- 3. If latchbolt does not retract or extend fully, 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.

