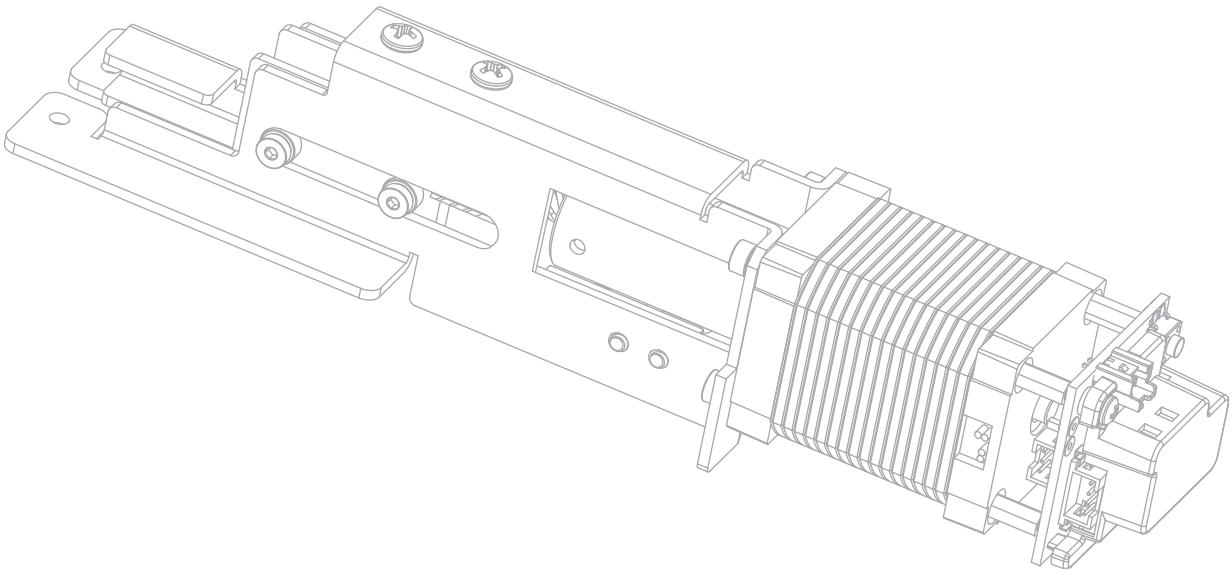
dormakaba

QED 100 series

Exit device – motorized latch retraction (8Q03000) kit

Installation Instructions



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Original document

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1 Important safety information

1.1 Safety warnings

1.1.1 Safety instructions: To reduce risk of injury or damage, carefully read and follow safety warnings, cautions and notices provided.

1.1.2 Safety warnings

⚠ WARNING

- Danger of death from contact with voltage or electrical short circuits! Reference RPSMLR2/RPSMLR2BB panic device power controller installation manual 93762.
- Electric shock hazard!
- Unit is to be serviced by authorized personnel and de-energized prior to opening.
- Metallic doors must be grounded per national and local codes.

1.1.3 Safety cautions

⚠ CAUTION

- Hand pinch point and sharp edge hazards during install. When handling sharp or pointed components, wear protective gloves.
- To avoid risk of shock, disconnect AC power from power supply before proceeding with this conversion. If using RPSMLR2BB battery backup option, unplug all wires from battery terminals.
- Installation should be serviced by trained installers. Installer should be familiar with applicable local and national building code requirements of current ANSI/BHMA standards.
- Work on electrical equipment must be performed by qualified personnel.

1.1.4 Property damage

NOTICE

- Mechanical dogging is not permitted on fire rated openings. Doing so will void fire rating.
- Install according to instructions or device will not function and panic or fire label will be void.
- Damage to equipment or incorrect equipment operation may result from an incorrect installation.
- Hazard to mechanical processes by use of control settings, elements, or procedures not documented in this set of instructions.
- When adding a MLR kit to an existing motorized latch retraction exit device, previous motor should be removed.
- MLR wiring must be attached to fire alarm system if installed on fire exit hardware.

2 Technical specifications

2.1 Tools recommended

Table 1

Phillips head screwdriver	Cordless drill
Pliers	Retaining clip applicator

2.2 Electrical input and wiring requirements

Table 2

Filtered and regulated power supply: dormakaba RPSMLR2 or RPSMLR2BB	
Voltage	24 VDC +/-10%
Current	1.5 A inrush
	215 mA MAX holding
Wire gauge	Minimum 20 AWG
Direct wire run	Use a direct wire run with no relays or access control units between power supply and module.

Table 3

2-Conductor wire run					
Distance	110' [33.53]	180' [54.86]	280' [83.34]	450' [137.16]	720' [219.46]
Wire gauge	20	18	16	14	12

2.3 Allowable cutoff

Table 4

Allowable cutoff from device length	
Standard 36"	3.25" [82.55]
Standard 48"	9.75" [247.65]

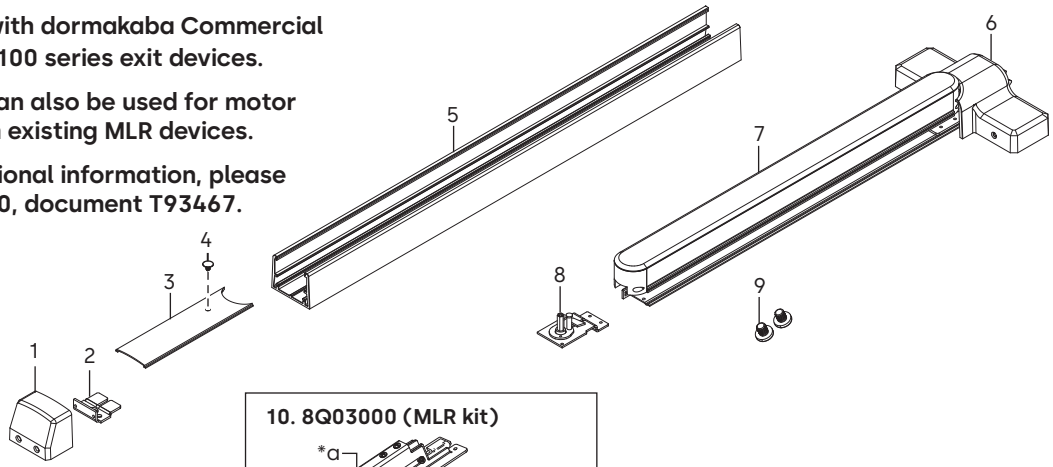
2.4 Overview and parts list

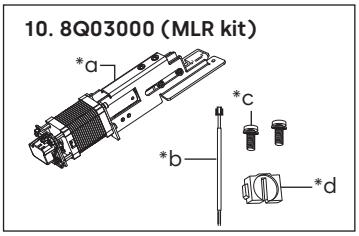
Fig. 1

NOTE: For use with dormakaba Commercial Hardware QED 100 series exit devices.

NOTE: This kit can also be used for motor replacement on existing MLR devices.

NOTE: For additional information, please refer to QED 100, document T93467.





*Included in kit

Parts List

1. Endcap
2. Endcap bracket
3. Filler plate
4. Filler plug
5. Device channel
6. Device cover
7. Touchbar assembly
8. Dogging mechanism
9. Screws (x2)
10. 8Q03000 (MLR kit)
    a. *Motor mount assembly
    b. *Molex pigtail
    c. *M4 x 6mm Phillips screws (x2)
    d. *Spacer

3 Disassembly instructions

3.1 Removing device cover and unmounting exit device

Fig. 2

3.1.1 Remove four screws securing device cover to chassis using a Phillips screwdriver.

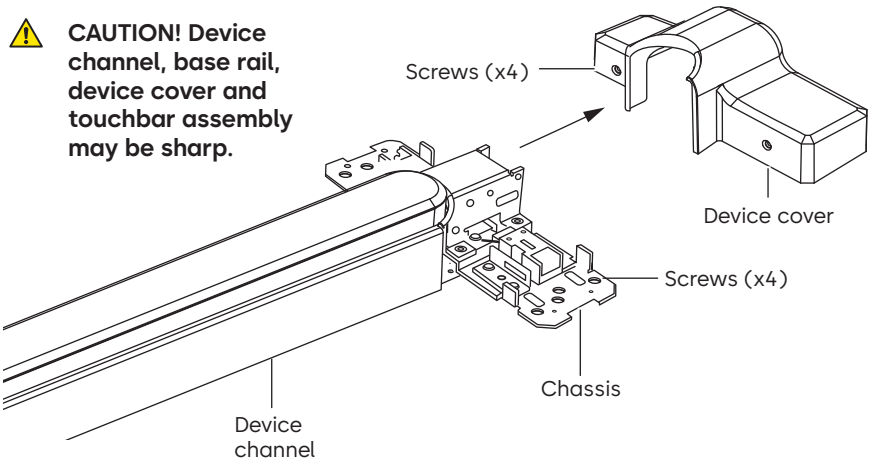
3.1.2 Remove device cover.

3.1.3 Remove four screws securing chassis to outside trim.

NOTE: Set aside for in use Step 4.5.4.

3.1.4 Remove exit device from door.

⚠ **CAUTION! Device channel, base rail, device cover and touchbar assembly may be sharp.**



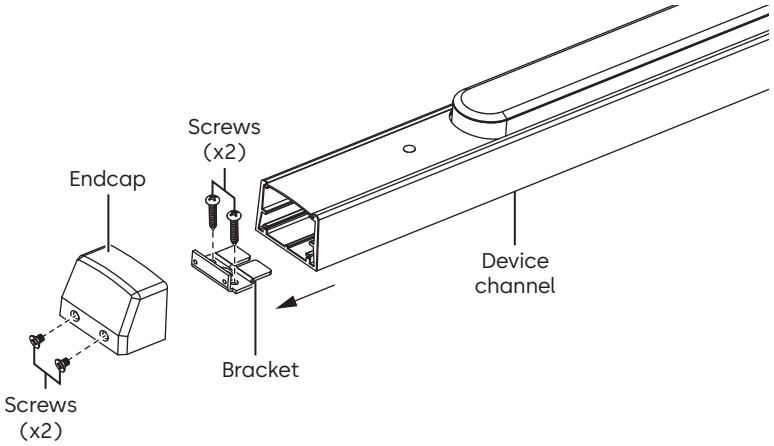
3.2 Removing endcap and bracket

Fig. 3

3.2.1 Remove two screws securing endcap using a Phillips screwdriver.

3.2.2 Remove two screws securing bracket to door.

NOTE: Set screws aside for use in Step 4.8.1.



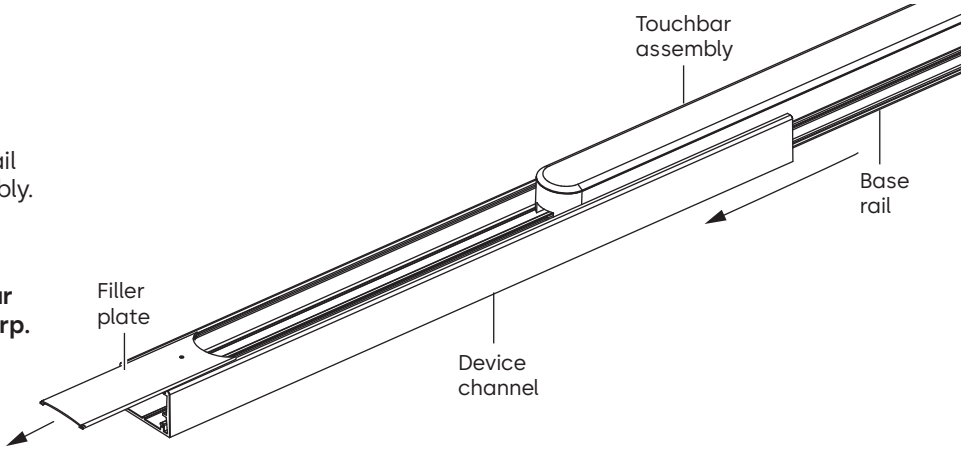
3.3 Removing filler plate and device channel

Fig. 4

3.3.1 Slide filler plate off device channel.

3.3.2 Slide device channel off to expose base rail and touchbar assembly.

⚠ **CAUTION! Device channel, filler plate, base rail and touchbar assembly may be sharp.**

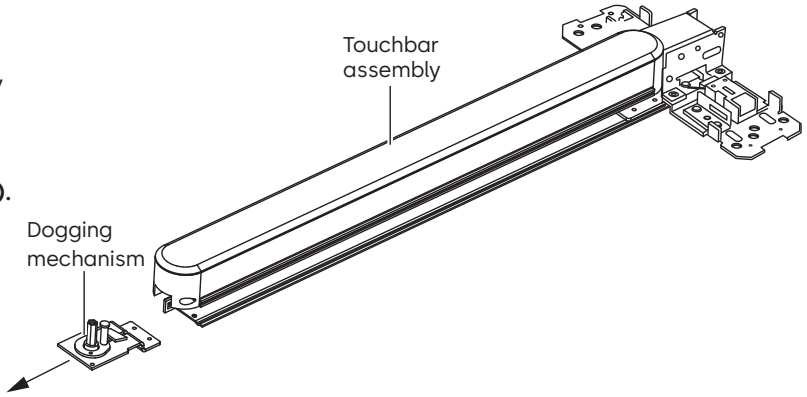


3.4 Removing dogging mechanism

Fig. 5

3.4.1 Remove dogging mechanism or latch retraction mechanism (if present) from touchbar assembly using a Phillips screwdriver.

NOTE: Discard manual dogging assembly and screws (if present).



4 Installation instructions

4.1 Installing spacer

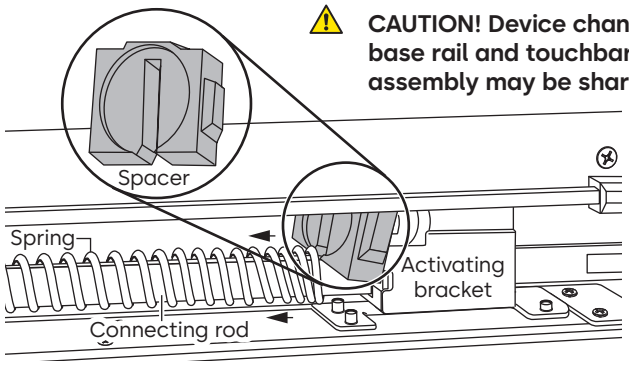
Fig. 6

4.1.1 Pull spring back.

4.1.2 Insert spacer onto connecting rod in front of back activating bracket.

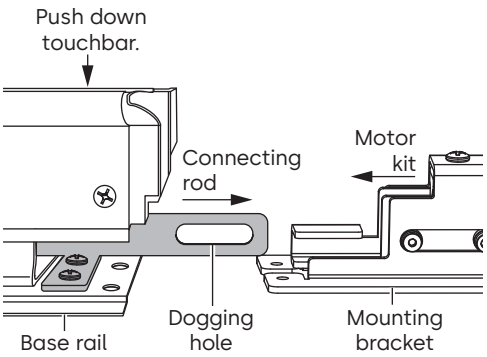
NOTE: Position spacer correctly with round cutout facing away from front activating bracket and slot oriented downward.

⚠ CAUTION! Device channel, base rail and touchbar assembly may be sharp.



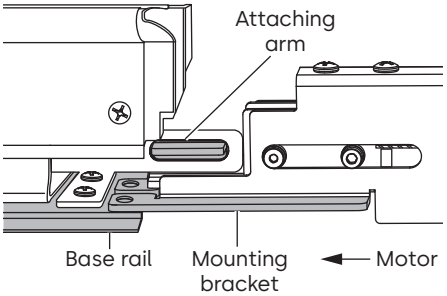
4.2 Attaching connecting rod

Fig. 7



4.2.1 Press down on touchbar to extend connecting rod's dogging hole.

NOTE: Ensure MLR kit's mounting bracket is on top of base rail.



4.2.2 Slide MLR kit's attaching arm into dogging hole.

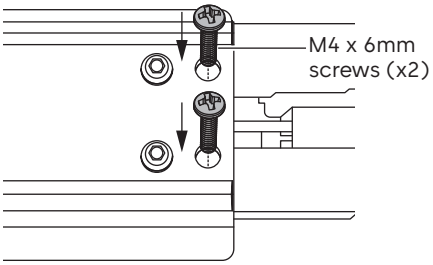
NOTE: Verify attaching arm is fully seated in dogging hole before proceeding.

4.3 Attaching MLR kit

Fig. 8

4.3.1 Turn touchbar assembly over while keeping MLR kit in place on base rail.

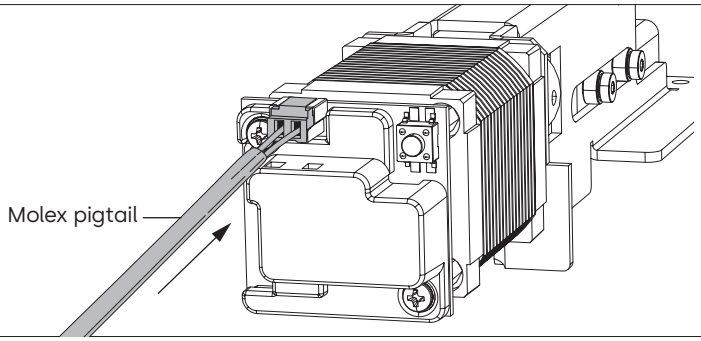
4.3.2 Secure MLR kit with two provided M4 x 6mm Phillips screws using a Phillips screwdriver.



4.4 Connecting Molex pigtail

Fig. 9

4.4.1 Connect Molex pigtail to MLR and ensure it is fully seated.



4.5 Installing filler plate, touchbar assembly and device cover; mounting exit device

Fig. 10

4.5.1 Slide filler plate into device channel.

4.5.2 Slide touchbar assembly into device channel, motor side first.

NOTE: Ensure MLR kit and base rail of touchbar assembly are properly aligned with mounting channels of device.

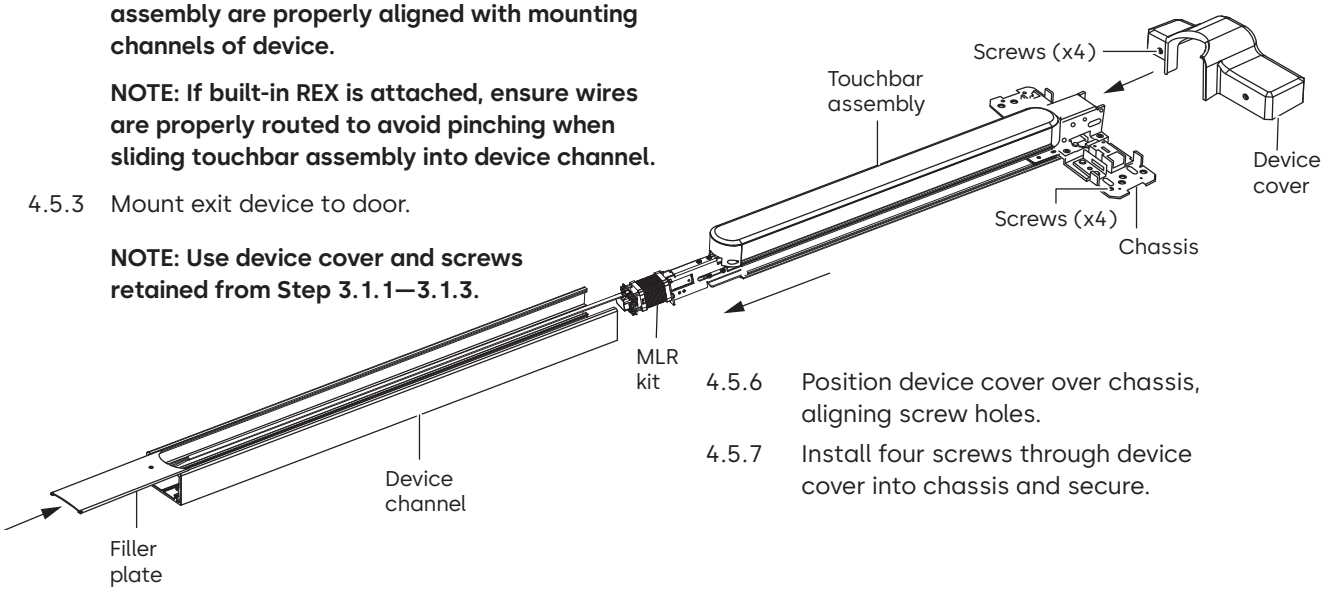
NOTE: If built-in REX is attached, ensure wires are properly routed to avoid pinching when sliding touchbar assembly into device channel.

4.5.3 Mount exit device to door.

NOTE: Use device cover and screws retained from Step 3.1.1—3.1.3.

4.5.4 Position chassis on door aligning mounting holes to outside trim.

4.5.5 Install four screws through chassis into trim and secure.



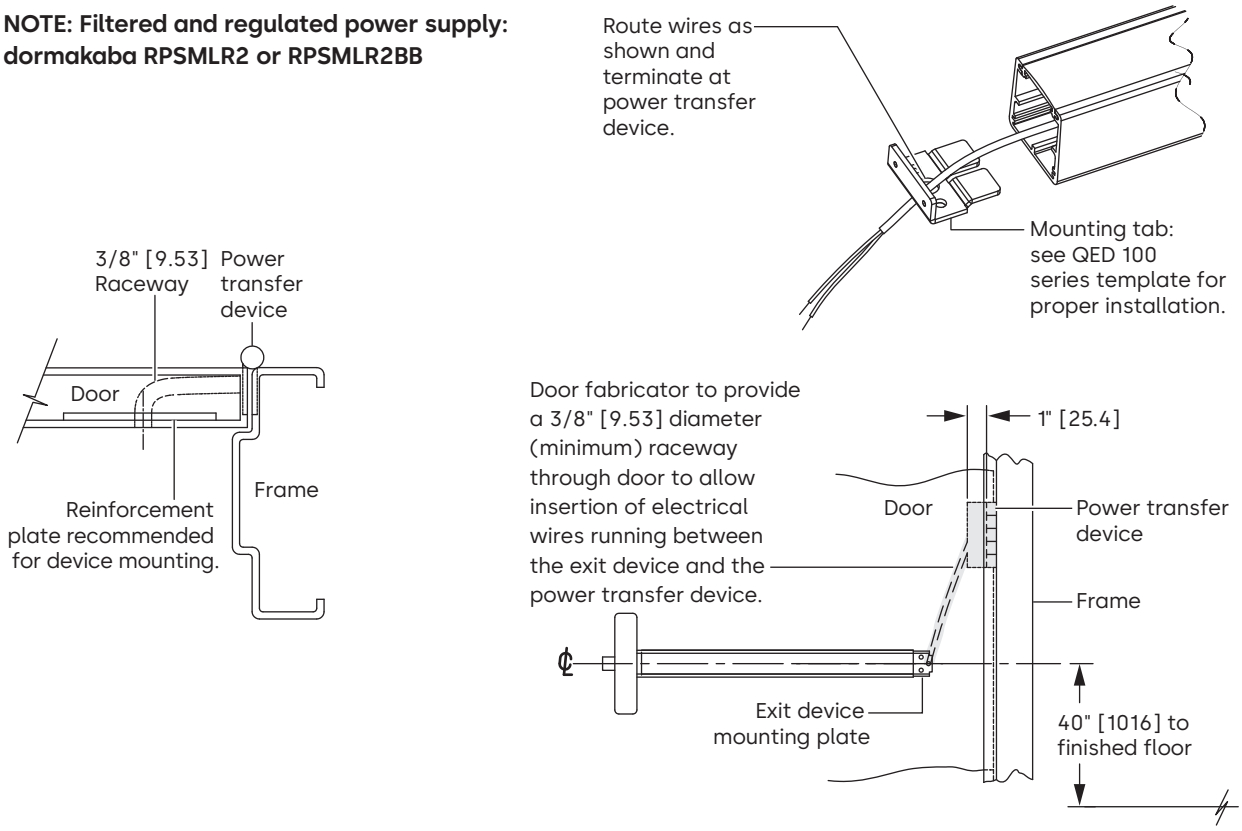
4.5.6 Position device cover over chassis, aligning screw holes.

4.5.7 Install four screws through device cover into chassis and secure.

4.6 Using exit device wiring template

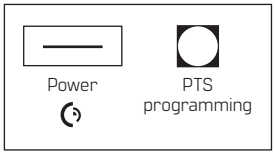
Fig. 11

NOTE: Filtered and regulated power supply: dormakaba RPSMLR2 or RPSMLR2BB



4.7 Completing calibration sequence

Fig. 12



NOTE: Test new location multiple times. If adjustments are needed, repeat steps.

Entering PTS Mode:

4.7.1 Connect MLR control module to a power source.

4.7.2 Depress PTS programming button.

4.7.3 Apply power and listen for a short beep, indicating device is in PTS mode.

4.7.4 Disconnect power.

4.7.5 Release MM5 button.

NOTE: Only release after power is fully disconnected from motor.

Setting Calibration:

4.7.1 Depress touchbar fully.

4.7.2 Release it slightly (approximately 1/32" [0.8] and hold.

4.7.3 Apply power.

4.7.4 Hold touchbar until device emits one long beep.

4.7.5 Disconnect power.

4.7.6 Test device multiple times and adjust if necessary by repeating these steps.

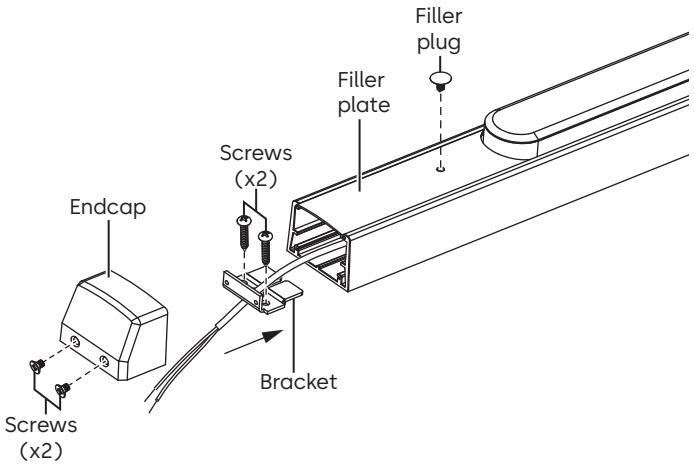
4.8 Installing endcap, bracket and filler plug (dogged devices only)

Fig. 13

4.8.1 Install endcap and bracket with screws set aside in Step 3.2.1— 3.2.2.

4.8.2 Install filler plug into mechanical dogging hole of filler plate.

NOTE: Do not remove any regulatory labels adhered to device.



5 Troubleshooting and diagnostics

Table 5

Number of beeps	Explanation	Possible solution
2	Over voltage	> 30 V unit will shut down. Check voltage and adjust to 24 V.
3	Under voltage	< 20 V unit will shut down. Check voltage and adjust to 24 V.
4	Failed sensor	Verify all three sensor wires are installed correctly. Replace sensor if problem persists by contacting office.
5	Retraction or dogging failure	**First failure:** 5 beeps then immediately attempts to retract again. **Second failure:** 5 beeps with pause in-between for 30 seconds then device attempts to retract again. **Third failure:** 5 beeps every 7 minutes, device will not attempt to retract. **Reset procedure:** Depress bar for 5 seconds at any time.

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Subject to change without notice

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