Motorized Latch Release (STD and BF) Installation Instructions

BEST
dormakaba Group

TOOLS NEEDED:

Drill 

Phillips screwdriver 

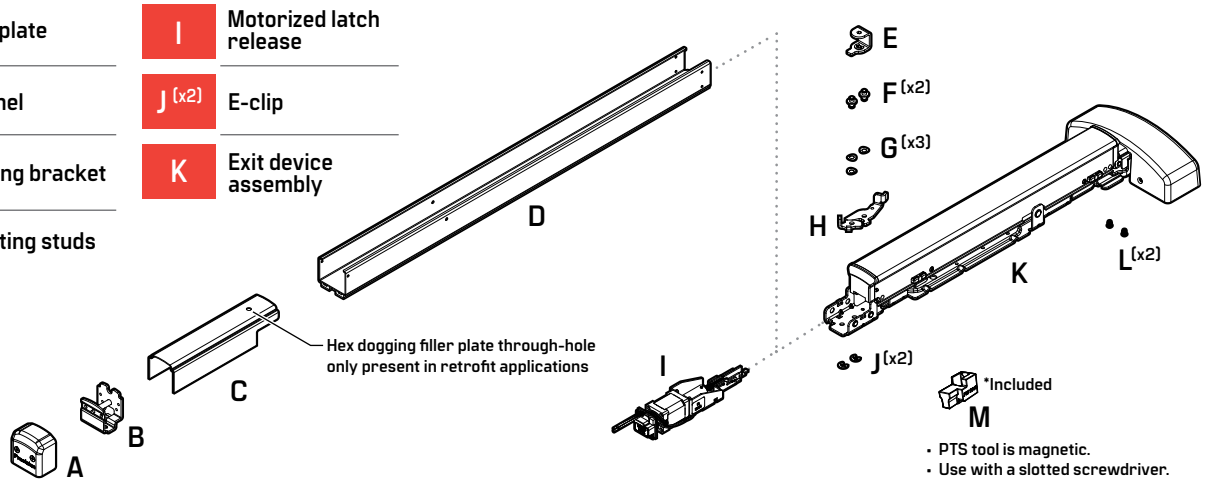
Slotted screwdriver 

Hex wrench 

OVERVIEW

A	End cap	G (x3)	Spring washer	L (x2)	Screws
B	Bracket	H	Dogging lever	M	*PTS tool barrier-free
C	Filler plate	I	Motorized latch release		
D	Channel	J (x2)	E-clip		
E	Dogging bracket	K	Exit device assembly		
F (x2)	Mounting studs				

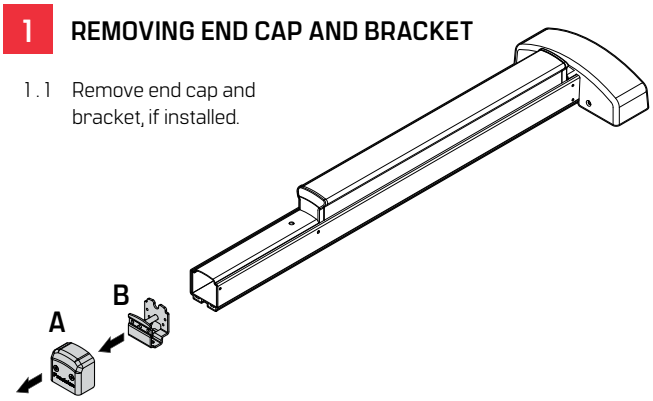
⚠ **CAUTION!**
Hand pinch point and sharp edge hazards during install.



- PTS tool is magnetic.
- Use with a slotted screwdriver.
- For barrier-free exit devices only.

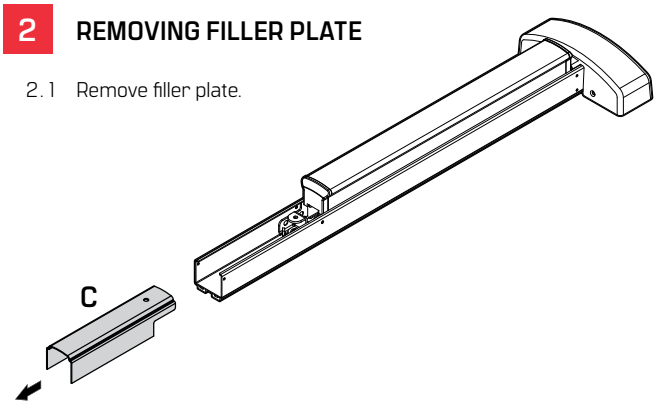
1 REMOVING END CAP AND BRACKET

1.1 Remove end cap and bracket, if installed.



2 REMOVING FILLER PLATE

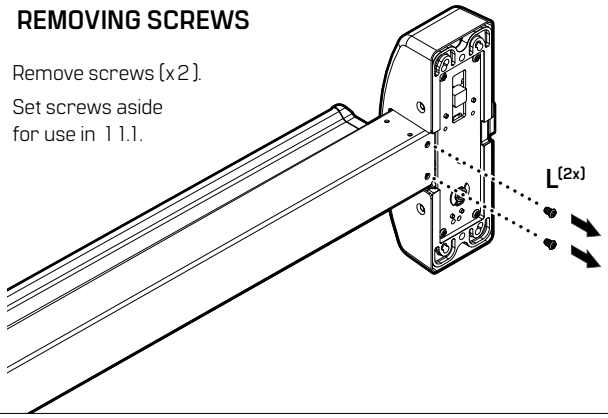
2.1 Remove filler plate.



3 REMOVING SCREWS

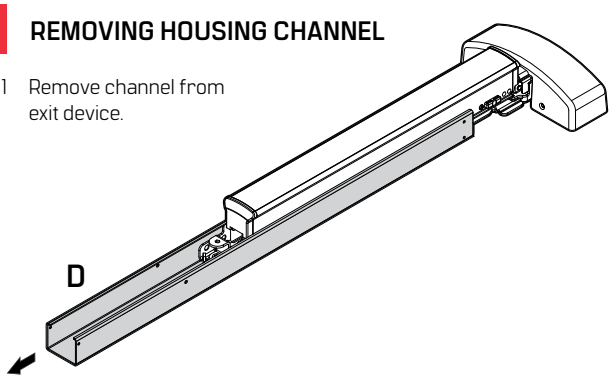
3.1 Remove screws (x2).

3.2 Set screws aside for use in 11.1.

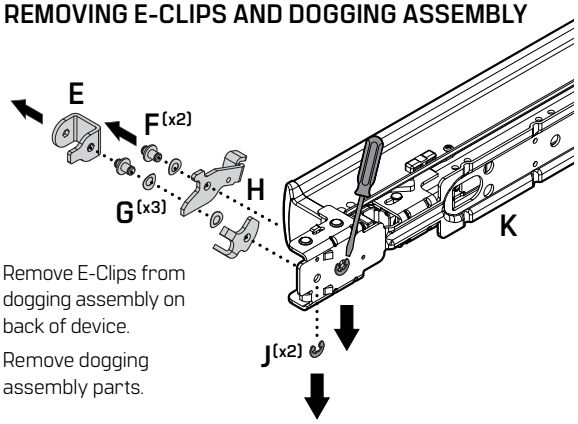


4 REMOVING HOUSING CHANNEL

4.1 Remove channel from exit device.



5 REMOVING E-CLIPS AND DOGGING ASSEMBLY

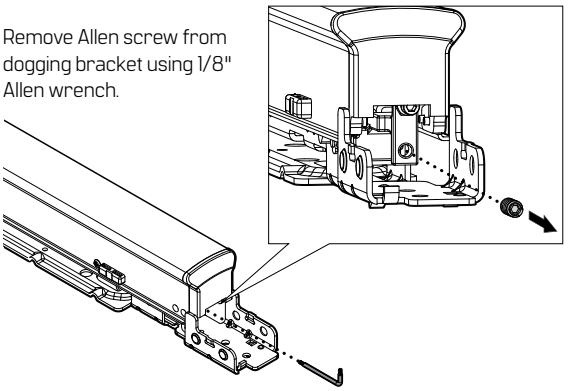


5.1 Remove E-Clips from dogging assembly on back of device.

5.2 Remove dogging assembly parts.

6 REMOVING ALLEN SCREW

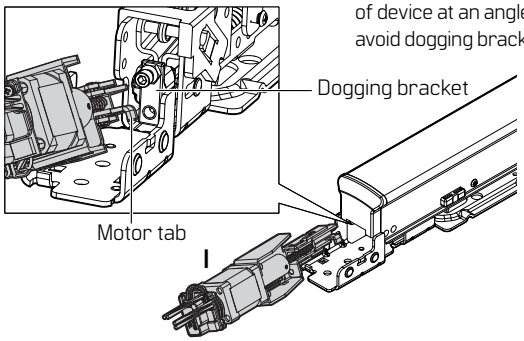
6.1 Remove Allen screw from dogging bracket using 1/8" Allen wrench.



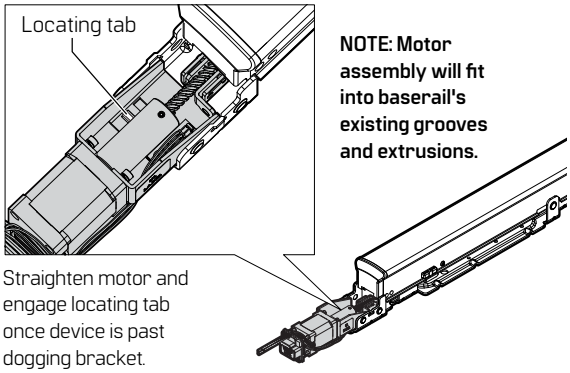
7 INSTALLING MOTOR ASSEMBLY

7.1 Rotate motor assembly.

7.2 Slide assembly into end of device at an angle to avoid dogging bracket.



8 POSITIONING MOTOR ASSEMBLY



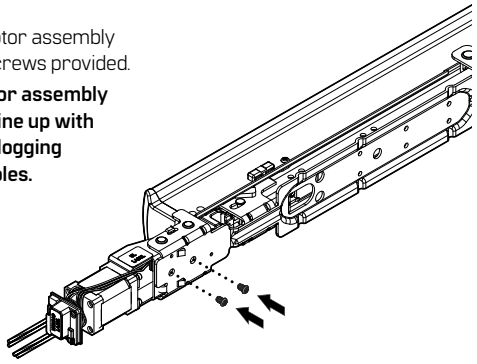
NOTE: Motor assembly will fit into baserail's existing grooves and extrusions.

8.1 Straighten motor and engage locating tab once device is past dogging bracket.

9 SECURING MOTOR ASSEMBLY

9.1 Secure motor assembly with two screws provided.

NOTE: Motor assembly holes will line up with removed dogging bracket holes.

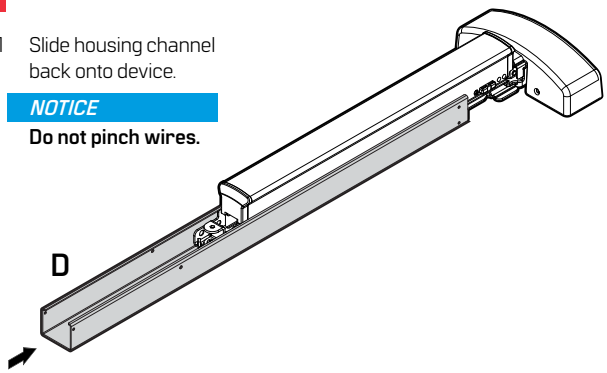


10 REINSTALLING HOUSING CHANNEL

10.1 Slide housing channel back onto device.

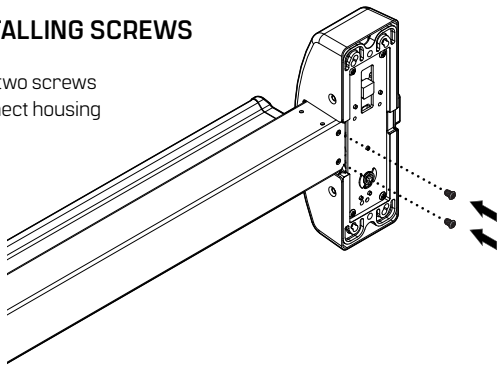
NOTICE

Do not pinch wires.



11 REINSTALLING SCREWS

11.1 Reinstall two screws that connect housing to device.



DEVICE CHECK

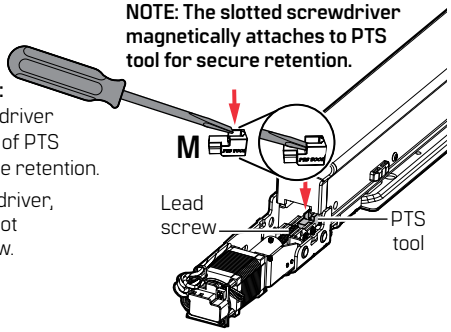
Standard devices:

- Skip to Step 12, "TESTING MOTOR."

Barrier-free devices:

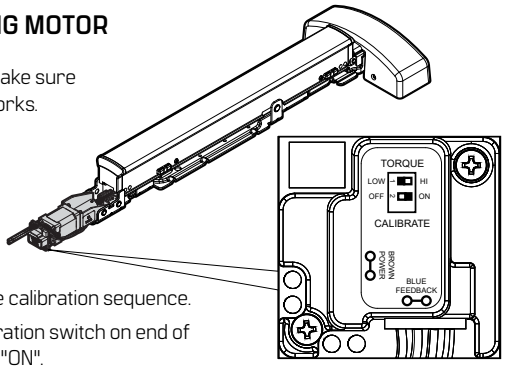
- Insert slotted screwdriver into magnetized slot of PTS tool to ensure secure retention.
- Using slotted screwdriver, place PTS tool into slot in front of lead screw.
- Continue to Step 12, "TESTING MOTOR."

NOTE: The slotted screwdriver magnetically attaches to PTS tool for secure retention.



12 TESTING MOTOR

12.1 Test to make sure motor works.



12.2 Complete calibration sequence.

12.3 Set calibration switch on end of motor to "ON".

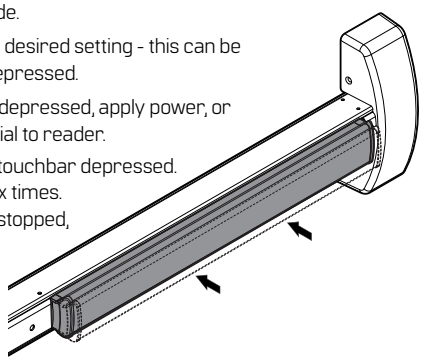
13 CALIBRATING DEVICE

13.1 Place device on side.

13.2 Press touchbar to desired setting - this can be fully or partially depressed.

13.3 While touchbar is depressed, apply power, or present a credential to reader.

13.4 Continue keeping touchbar depressed. Device will beep six times. After beeps have stopped, release touchbar.



NOTICE

Set calibration switch on end of motor to "OFF".

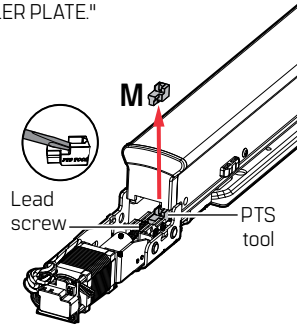
DEVICE CHECK

Standard devices:

- Skip to Step 14, "REINSTALLING FILLER PLATE."

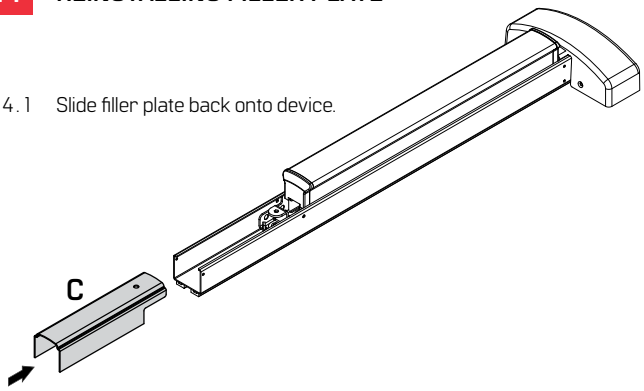
Barrier-free devices:

- Reinsert slotted screwdriver into magnetized slot of PTS tool to ensure secure retention.
- Using same slotted screwdriver, remove PTS tool from slot in front of lead screw.
- Continue to Step 14, "REINSTALLING FILLER PLATE."



14 REINSTALLING FILLER PLATE

14.1 Slide filler plate back onto device.



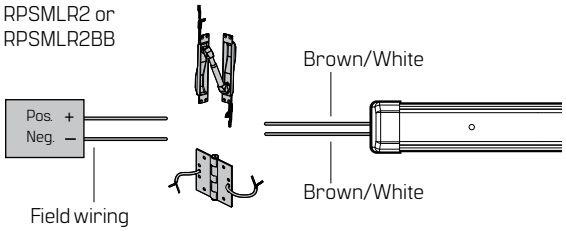
15 NON-QUICK CONNECT INSTALLATION (POWER CONNECTIONS FOR MLR)

15.1 Power supply should be 24 VDC, regulated and filtered BEST-Precision Hardware RSPMLR2 or RSPMLR2BB.

15.2 Wire run should be as short as possible and free from major electrical noise sources.

External power supply:

RPSMLR2 or RPSMLR2BB

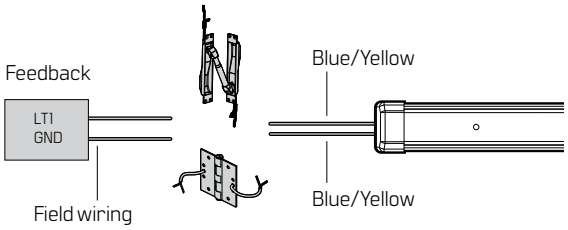


Transfer device:
EPT, electric hinge or conduit

16 NON-QUICK CONNECT INSTALLATION (LATCH BOLT FEEDBACK FOR MLR)

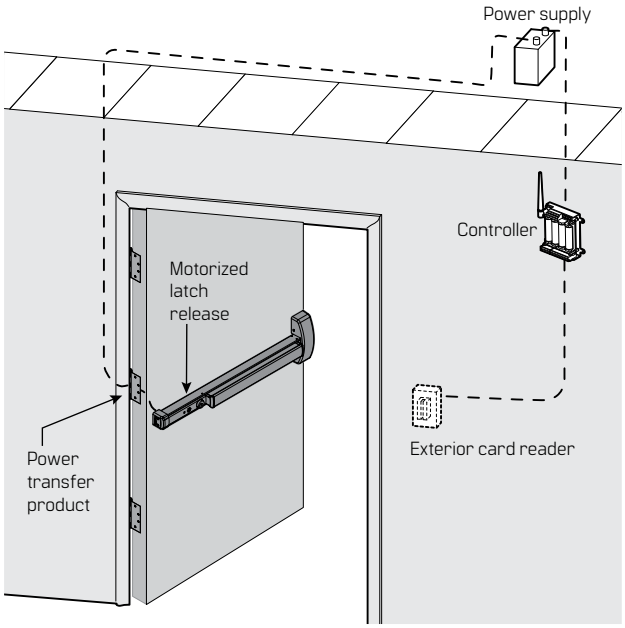
16.1 Plug in optional blue/yellow wires into RSPMLR2 or RSPMLR2BB.

16.2 Wire run should be as short as possible and free from major electrical noise sources.



Transfer device:
EPT, electric hinge or conduit

17 ELECTRIFIED EXIT DEVICE (EXAMPLE INSTALL)



18 SPECIFICATIONS, TROUBLESHOOTING, AND DIAGNOSTICS

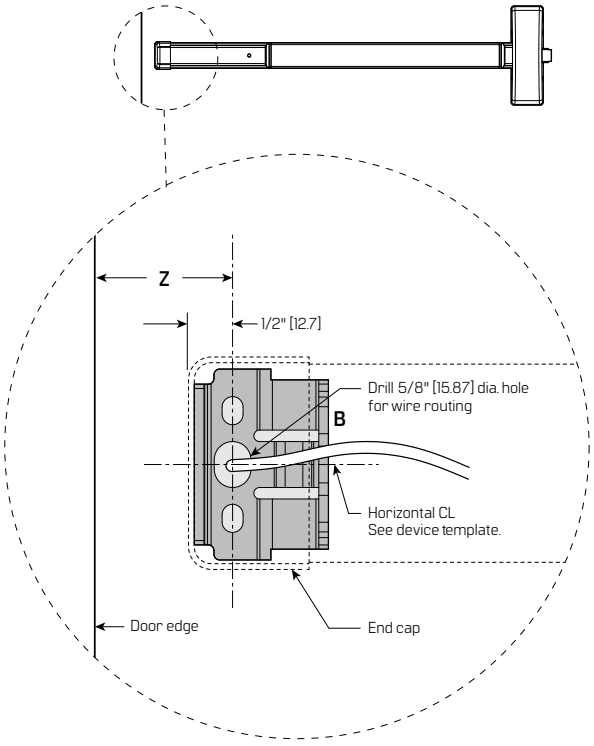
Input voltage: 24VDC +/- 10%
Avg. holding current: 180 mA
Avg. latch retraction current: 1 Amp
Wire gauge: Min. 20 gauge

No. of beeps	Explanation	Solution
2 beeps	Over voltage	Check voltage and adjust 24V.
3 beeps	Under voltage	Check voltage and adjust 24V.
4 beeps	Failed sensor	Call service.
5 beeps	Forced release	Device will automatically re-engage within 5 seconds.
6 beeps	Touchbar is depressed. Device is readjusting.	Check to ensure touchbar is not stuck or catching on anything. Turn off calibration switch.
7 beeps	Over travel or mechanical obstruction	For mechanical obstruction, remove it and push in touchbar until beeping stops to reset. If no obstruction, touchbar may have been pushed in too far during calibration. Recalibrate with touchbar slightly out. If problem persists, verify magnet is within 1/4" [6.35] of sensor at end of travel.

18 WIRING DETAILS

'Z' Dimension for standard 3' [914] or 4' [1219.2] doors:	
Wide stile device with 2-3/4" [69.85] backset:	Z = 2-1/4" [57.15]
Narrow stile device on aluminum door/frame with 1-1/16" [26.98] backset:	Z = 1-1/16" [26.98]
Narrow stile device on hollow metal door/ frame with channel cut to 1-1/8" [28.57] recommended clearance:	Z = 2-1/8" [53.97]

NOTE: For installation with mullion and other backset requirements, add or subtract from dimension shown.



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⚠ **WARNING! This Manufacturer advises that no lock can provide complete security by itself. This lock may be defeated by forcible or technical means, or evaded by entry elsewhere on the property. No lock can substitute for caution, awareness of your environment, and common sense. Builder's hardware is available in multiple performance grades to suit the application. In order to enhance security and reduce risk, you should consult a qualified locksmith or other security professional.**