

QED 100/200 series

Exit device motorized latch retraction kit

Installation instructions

94364_A – 10-2022

| EN |

dormakaba 

Table of contents

1	Technical specifications	3
1.1	Tools recommended	3
1.2	Electrical input and wiring requirements	3
1.3	Allowable cutoff from device length	3
1.4	Overview and parts list	3
2	Instructions for disassembly	4
2.1	Remove end cap and bracket	4
2.2	Remove device channel and dogging mechanism	4
2.3	Remove dogging mechanism	4
3	Installation instructions	5
3.1	Prep kit	5
3.2	Attach kit mounting plate	5
3.3	Attach connecting link	5
3.4	Attach device channel	6
3.5	Install filler plug	6
4	Motorized latch retraction adjustment	7
4.1	Verify latch retraction	7
4.2	Adjust latch retraction	7
5	Troubleshooting and diagnostics	8

1 Technical specifications

1.1 Tools recommended

Table 1

Phillips Head Screwdriver	Pliers or retaining clip applicator
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1.2 Electrical input and wiring requirements

Table 2

Electrical input requirements	
Filtered and regulated power supply	
Voltage:	24 VDC ± 10%
Current	1A MAX inrush 400mA MAX holding
Non-polarized leads	

Table 3

2-Conductor wire run						
Distance	70'	110'	180'	280'	450'	720'
Wire Gauge	22	20	18	16	14	12

NOTE: If using 8Q00312 or 8Q00313 power supplies ensure circuit board is REV G or newer.

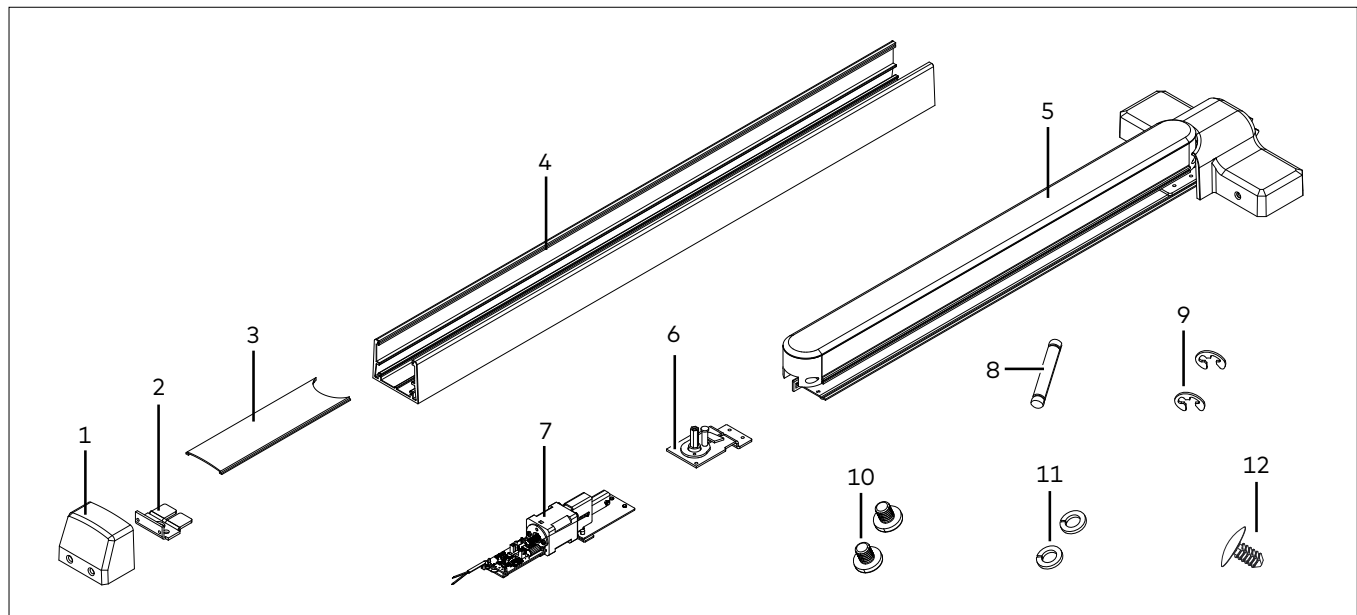
1.3 Allowable cutoff from device length

Table 4

Allowable cutoff from device length	
Standard 36"	3.25"
Standard 48"	9.75"

1.4 Overview and parts list

Fig. 1



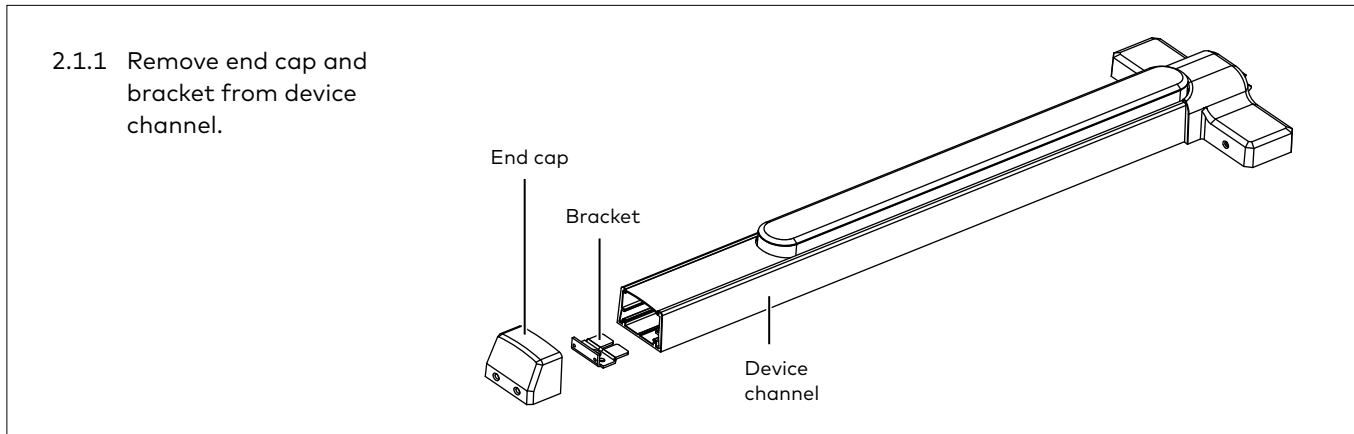
Parts List

- | | | |
|-------------------|----------------------|--------------------|
| 1. Endcap | 5. Push pad assembly | 9. Retaining rings |
| 2. Endcap bracket | 6. Dogging mechanism | 10. Screws |
| 3. Filler plate | 7. 8Q03000 kit | 11. Lockwashers |
| 4. Device channel | 8. Clevis pin | 12. Filler plug |

2 Instructions for disassembly

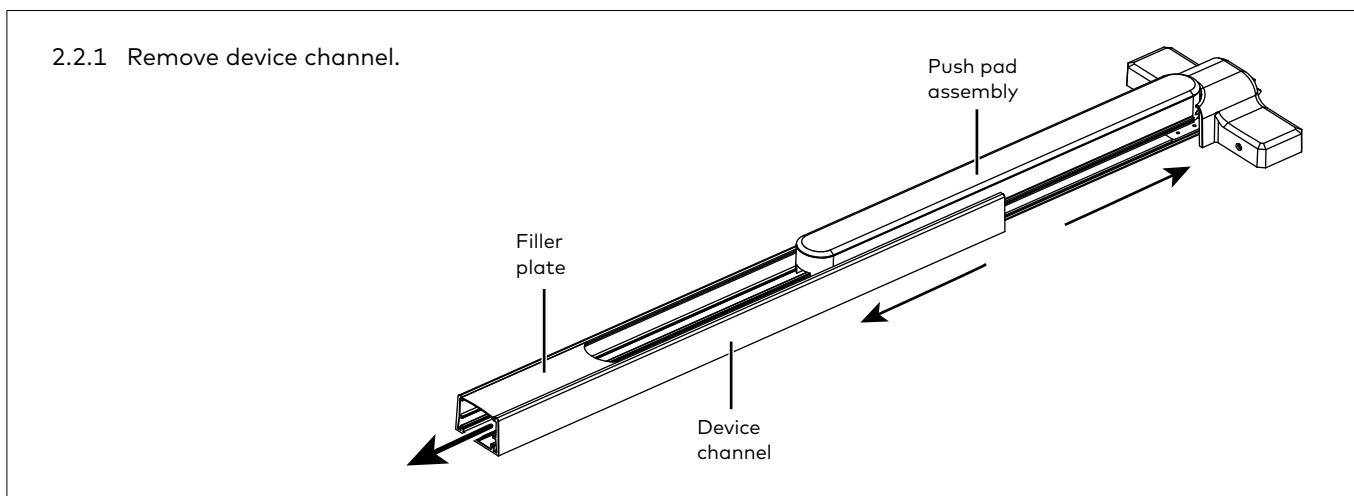
2.1 Remove end cap and bracket

Fig. 2



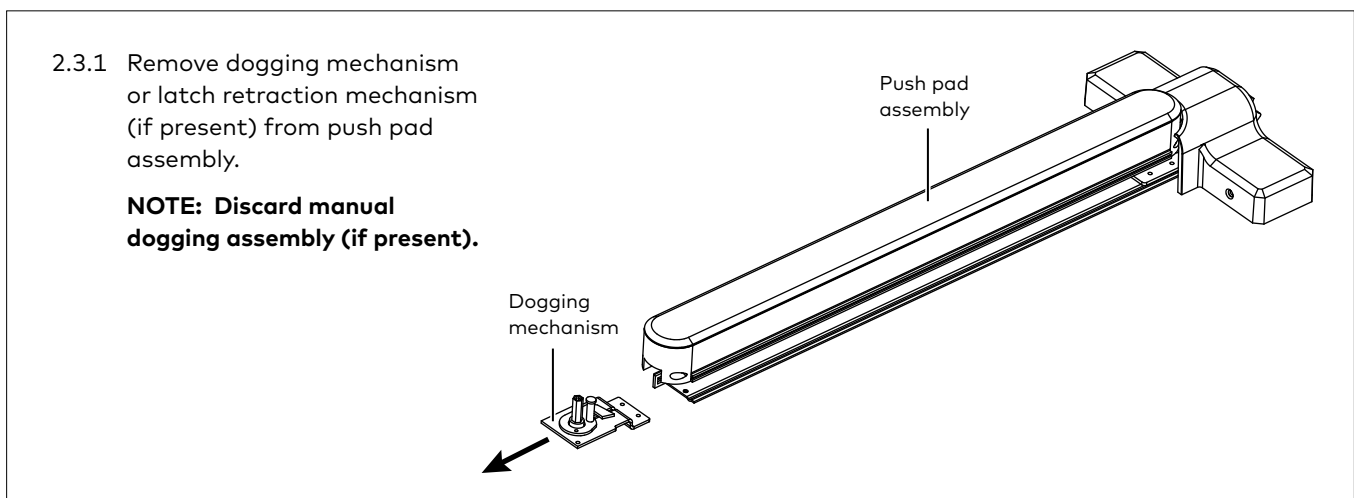
2.2 Remove device channel and dogging mechanism

Fig. 3



2.3 Remove dogging mechanism

Fig. 4



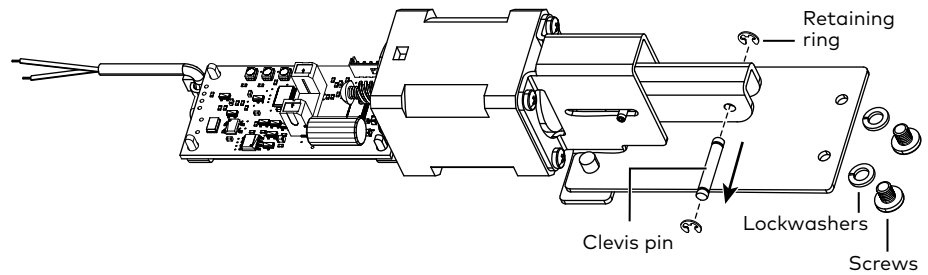
3 Installation instructions

3.1 Prep kit 8Q03000

Fig. 5

- 3.1.1 Remove supplied clevis pin from connecting link.
- 3.1.2 Remove supplied screws and lockwashers.

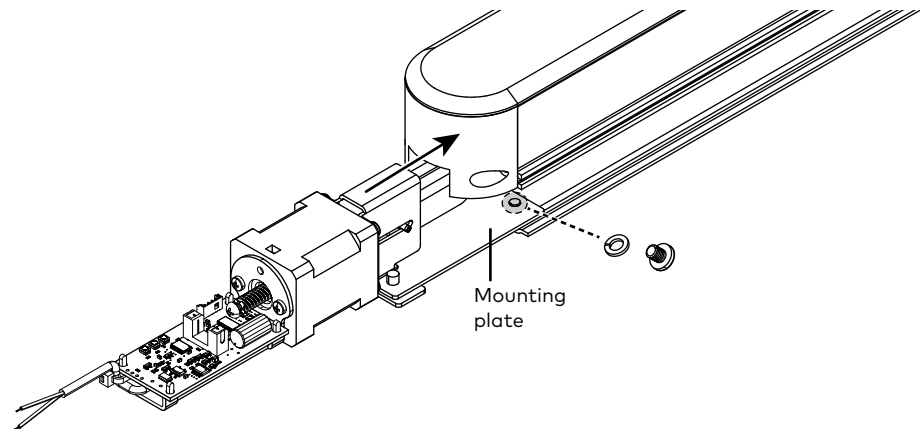
NOTE: Set aside hardware for step 3.2 and 3.3.



3.2 Attach kit mounting plate

Fig. 6

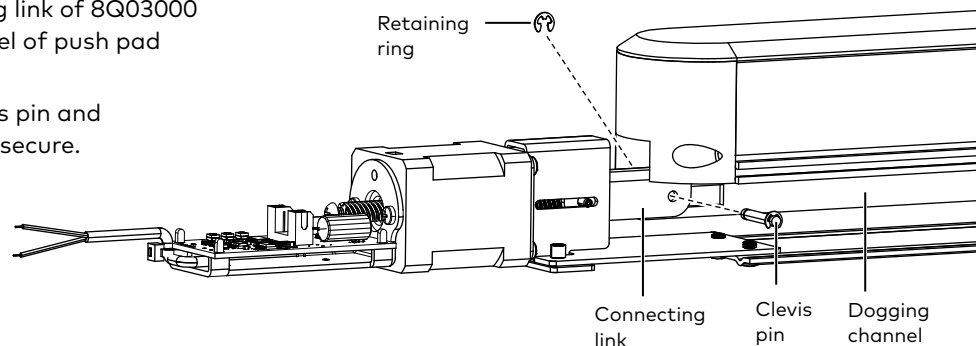
- 3.2.1 Attach mounting plate of 8Q03000 to push pad assembly.
- 3.2.2 Use supplied screws and lockwashers through holes that secured dogging mechanism.



3.3 Attach connecting link

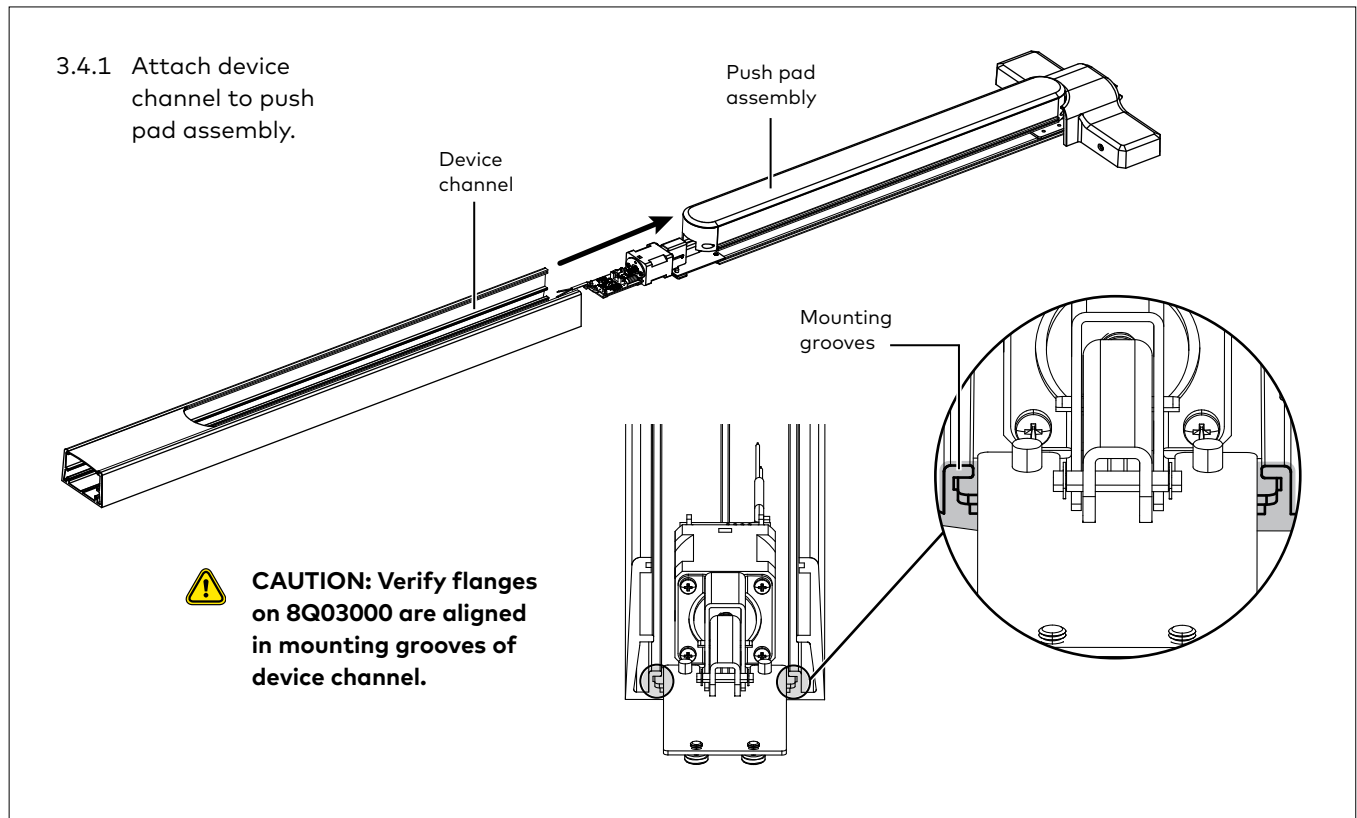
Fig. 7

- 3.3.1 Attach connecting link of 8Q03000 to dogging channel of push pad assembly.
- 3.3.2 Use supplied clevis pin and retaining rings to secure.



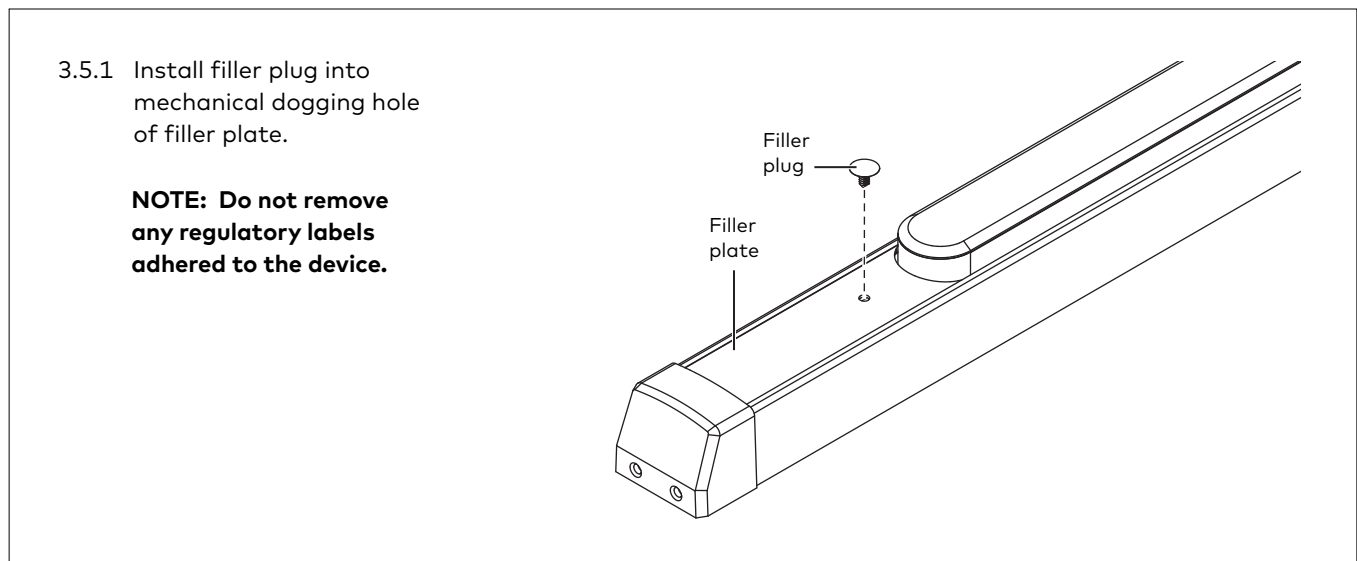
3.4 Attach device channel

Fig. 8



3.5 Install filler plug

Fig. 9



4 Motorized latch retraction adjustment

4.1 Verify latch retraction

- 4.1.1 Verify proper mechanical operation of push bar.
- 4.1.2 Verify electrical operation does not exceed mechanical operation.



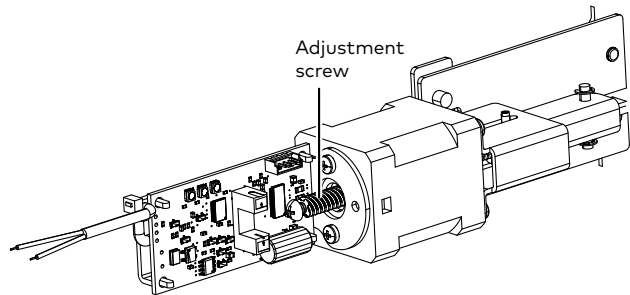
CAUTION: High risk of damage to device possible.

NOTE: If latch retraction adjustment is necessary, see step 4.2.

4.2 Adjust latch retraction

Fig. 10

- 4.2.1 Locate adjustment screw in rear of motor assembly.
 - Increase latch retraction: Rotate adjustment screw **clockwise**.
 - Decrease latch retraction: Rotate adjustment screw **counter-clockwise**.
- 4.2.2 Set latch retraction under electric operation to 1/16" less than latch retraction under mechanical operation of push bar.



5 Troubleshooting and diagnostics

Table 5

NOTE: Maintain input power to exit device and check onboard indicator lights.

NOTE: Remove input power before attempting a solution.

Green (Power)	Yellow (Sensor)	Red (Error)	Indication	Possible Solution
Off	Off	Off	No power.	Connect wiring between power supply and exit device.
On	On	Off	Normal operation. Push bar is retracted to dogged position and dogged; latch is retracted by default. Device is allowed 2 attempts.	N/A
On	Off	On	Error in operation. Push bar did not retract to dogged position within 2 attempts.	Rotate adjustment screw counter-clockwise to decrease the latch retraction
On	On	On	Error in operation. Without power being removed, push bar went from being dogged to unintentionally extended. As a result, push bar did not retract to dogged position within 2 attempts.	Clear the jam condition manually.
On	Blink	On	Error in operation. Push bar did not extend from dogged position when power was last removed. Device will not attempt a retraction.	Clear the jam condition manually.
On	Simultaneous blink		Error in operation. Input voltage dropped below the specification during operation.	Decrease wire run or wire gauge. See Table 3 on page 3.
On	Alternating blink		Error in operation. An electronics fault was detected.	An electronic replacement is required.



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