

GREASEBOSS LUBRICATION MANAGEMENT SYSTEM

ENDPOINT BATTERY REPLACEMENT GUIDE

LOW FLOW AND HIGH FLOW ENDPOINT



This guide provides instructions on how to replace the battery in the LOW FLOW ENDPOINT and HIGH FLOW ENDPOINT.

1.1: ENSURE ALL DEVICES AND POWER SOURCES TO THE GREASE PUMP AND GREASE SYSTEM ARE FULLY ISOLATED PRIOR TO COMMENCING WORK

1.2: ONLY USE GREASEBOSS SUPPLIED OR APPROVED REPLACEMENT BATTERIES TO ENSURE COMPATABILITY WITH THE GREASEBOSS ENDPOINTS



(Please take photos of each installation step and provide to GreaseBoss for effective support. Include a photo of the GreaseBoss Endpoint Serial Number.)

1.3 Parts, Tools and Preparation

- 1) Parts
 - a) CR2477 Coin Cell (1000mAh) – To be supplied by GreaseBoss.
- 2) Tools
 - a) Torque Screwdriver with 2.5mm Allen Key Head (do not use power tools or overdriven screws may damage the devices seal integrity).
 - b) Site approved aerosol brake cleaner or degreaser.
 - c) Hot Glue Gun and Glue -or- non-conductive silicone
- 3) Determine the appropriate location to perform the procedure:
 - a) Preferably, the device can be fully removed, and battery replacement is done in a clean location to minimise contaminant ingress.
 - b) Alternatively, an Endpoint battery change can be done in position if practical.
 - c) Take care NOT to introduce any contamination throughout this process.

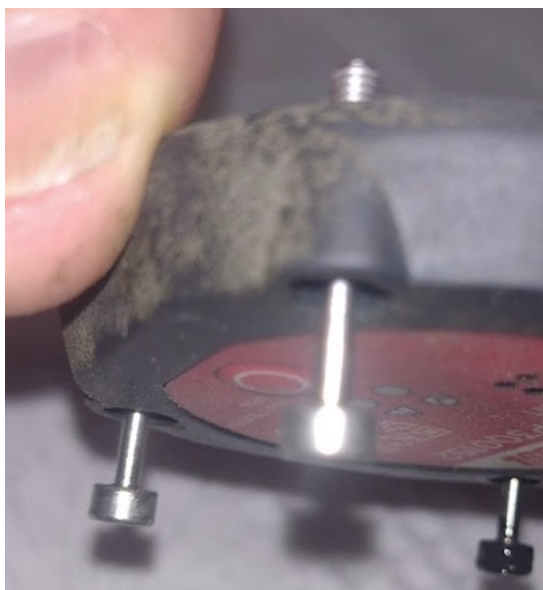
3: BATTERY REPLACEMENT PROCESS

3.1: Thoroughly clean the surface of the Endpoint to avoid ingress of contaminants into the device

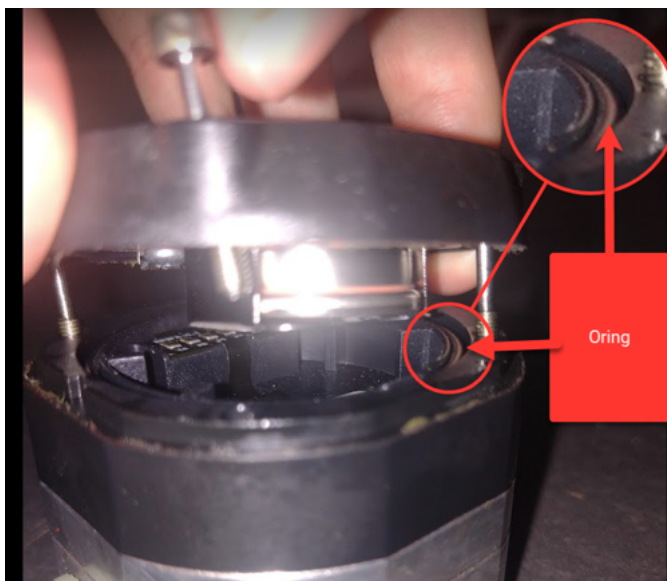
3.2: The 4 Hex Screws accessible on the top of the endpoint release the Cap from the Body of the Endpoint. Between the Cap and the Body is an O-Ring Seal.



3.3: Ensure the Hex Screws are clear of dirt and debris. Use a 2.5mm Allen Key Fitting to unscrew the Cap. Note these are Captive Screws and not fully removed.



3.4: When removing the Cap, take care not to lose the O-ring. Inspect O-ring for damage. Clean O-ring and keep clear of dirt and debris. Replace if damaged.



3.5: Place the Cap on a flat surface upside down to reveal the battery holder attached to the circuit board.

3.6: Use a non-conductive tool to carefully press the battery out towards the outer edge until the battery is free from the holder. (See image below)



3.7: Insert the new battery into the battery holder with the negative side facing the circuit board. You may see some bootup LED flashes. No action is required.

3.8: Apply a small amount of hot glue or non-conductive silicone to the outer points of where the battery holder contacts the battery as indicated in the image below. This will prevent the battery moving due to vibration of the Endpoint.



3.9: Insert the O-ring back into position in the body of the endpoint.

3.10: Position the Cap back on the Body of the Endpoint and evenly tighten the screw until the faceplate is seated and all faces are mated. DO NOT OVERTIGHTEN THE SCREWS.



3.11: Using the Torque Screwdriver, tighten the screws to 0.7nm

3.12: Confirm power to the Endpoint by pressing the button for 1 second and releasing. A single Green LED Flash indicates the Endpoint is powered.

3.13: If the Endpoint was removed from the system for the battery change, insert back in-line with the grease system and secure connecting hoses.

3.14: Once battery change is complete and the Endpoint installed in-line with the grease system, re-sync the Endpoint to the Gateway. Press and hold the button for 7 seconds and release. Observe the LED light sequence and reference the below image for connectivity status

Press and HOLD	release at 1 second		release at 3 seconds	release at 7 seconds		
Function	Status check		New canister/reset volume	manual data point created		
LED				Useful for installation		
				search	connect	sync.
LED	LED blinks once if OK	Both and blink rapidly if the device is busy, just try again.	Both and LEDs blink slowly 3 times to indicate that canister change has been recorded. Time-stamped data will soon be visible in the <u>GreaseBoss Cloud</u> .	and pulse while endpoint is searching for gateway (searching)	rapid blinks fast if connected and is syncing (connected)	goes solid for a few seconds if OK (sync success)
LED	LED blinks once if problem. Contact support@greaseboss.com.au				blinks slowly 3 times if unable to find gateway (unable to connect) Contact support@greaseboss.com.au	goes solid for a few seconds if NOT OK (sync fail)