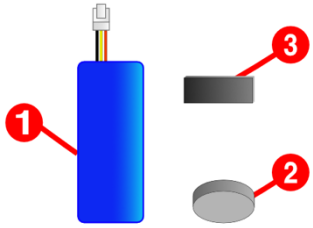
EQUINOX Battery Change

Read all instructions prior to commencing the battery replacement

Equipment Required

Item	Availability	Notes
EQUINOX Replacement Battery Kit	Minelab	PN: 3011-XXXX
Hex Driver 3mm (H3)	common	
Hex Driver 2mm (H2)	common	
Needle Nose Pliers	common	

3011-XXXX – EQUINOX Replacement Battery Kit Contents



Ref. Number	Description
1	Li-Ion Battery
2	Foam Disc
3	20mm Foam Tape

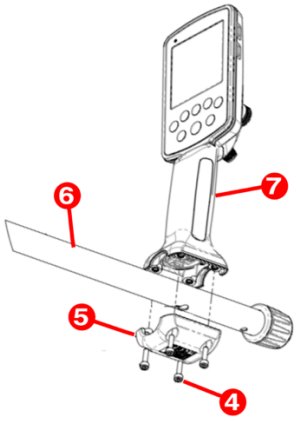
Before Performing Battery Change

Clean detector to ensure no dirt or sand can enter the battery compartment during the procedure.

Perform work in a clean and well-lit area.

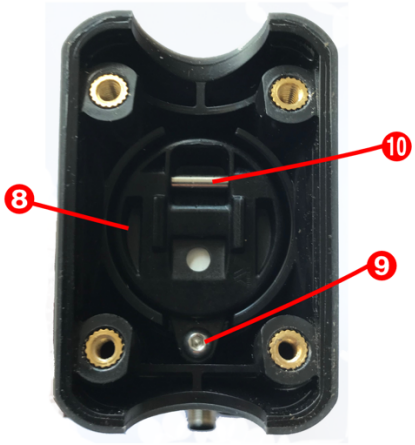
1. Removal of Control Pod from Upper Shaft

a. Using Hex Driver 3mm (H3), remove 4 x M4x16 screws [4]
b. Separate the clamp [5] and shaft [6] from the Control Pod [7].

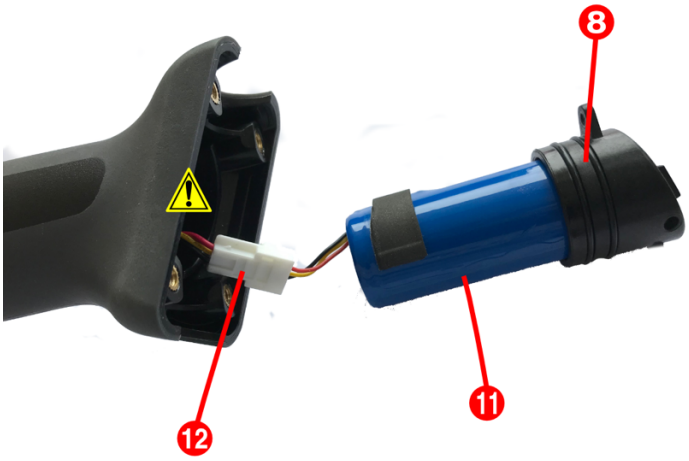


2. Removal of Li-Ion Cell from Control Unit

a. Clean bung assembly [8] to ensure no dirt or sand can enter the battery compartment after the bung is removed.
b. Using Hex Driver 2mm (H2), remove 1 x M3x8 screw [9]

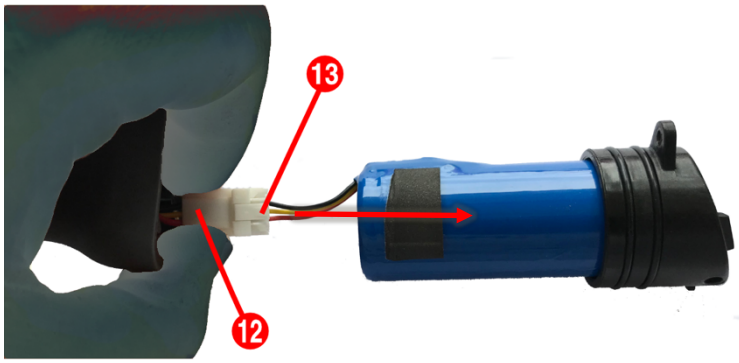


c. With you thumb resting on the bung assembly, gently pull the bung out of the Control Pod handle using Needle Nose Pliers gripping the extraction pin [10]. Use your thumb to control the removal rate – this should be slow. **Unrepairable damage may be caused to the Control Pod if the bung and battery are removed too far.**
d. Slowly ease the bung [8] and battery [11] out of the Control Pod handle until the wiring loom connector [12] is presented. The maximum permissible distance the wiring loom can be extended from the Control Pod is when the white connector is flush with the entrance of the battery compartment.



Extending the wiring loom from the Control Pod beyond the entrance of the battery compartment may cause irreparable damage to the Control Pod.

e. Hold the wiring loom connector [12] firmly with your finger and thumb and release the battery by pushing the latch [13] and disconnect the battery from the internal wiring loom.



f. Separate the bung assembly [8] from the battery [11] by firmly pulling the two apart.

Do not touch or apply pressure to the gore vent [14] of the bung assembly.

g. Dispose of the Li-Ion battery in accordance with your local authority guidelines.

3. Installation of Li-Ion Cell into Control Unit

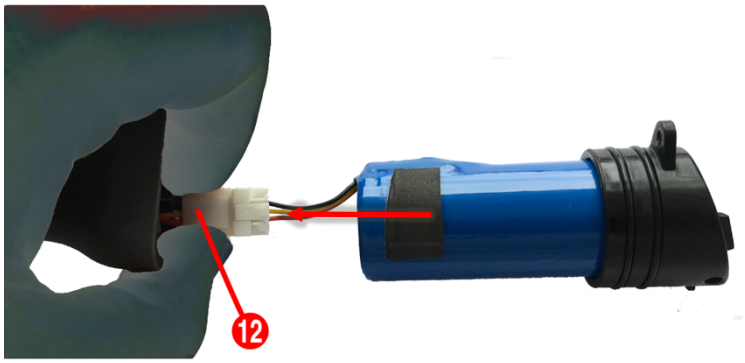
a. Inspect the bung assembly and confirm:
   i. Two O-rings [15] are present and free from dirt & grit.
   ii. Gore vent [14] is present and undamaged. Do not touch or apply pressure to the gore vent of the bung assembly.

b. Remove backing of one side of the foam disc [2] and firmly attach the foam disc to the bottom of the replacement battery [1].

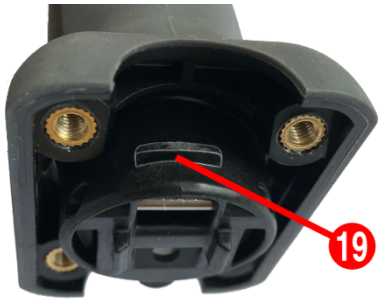
c. Remove the second side of the foam disc [2] and push the battery [1] into the bung assembly [8] ensuring that the guide marking [16] is aligned to the notch [17] of the bung.

d. Remove the backing from the 20mm tape [3] and attach it to the battery ensuring 5mm from the top of the battery and centre-aligned with the bung tab [18].

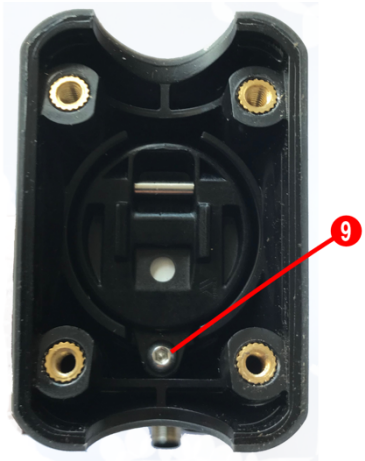
e. Hold the Control Pod internal wiring loom [12] firmly with your finger and thumb and connect the battery cable to the wiring loom ensuring that the white connector of the wiring loom from the Control Pod is flush with the entrance of the battery compartment while doing so.



f. Slowly ease the bung and battery into the Control Pod handle with the tabs [19] of the bung aligned to the slots [20] of the Control Pod handle.
    i. The battery and bung assembly should enter the Control Pod easily without significant resistance.
    ii. Additional pressure will be required for the final 5mm of the battery insertion.

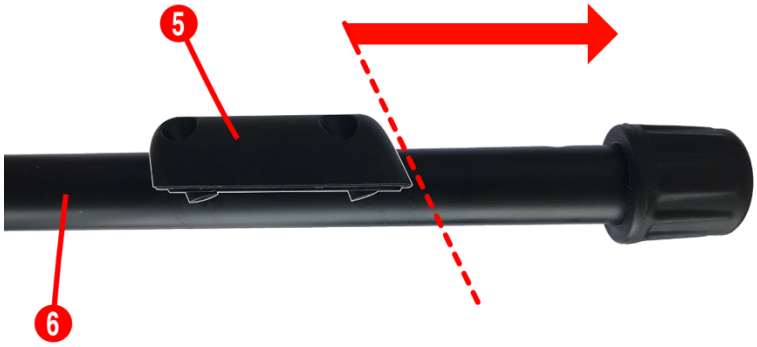


g. Secure bung with 1 x M3x8 screws [9] using Hex Driver 2mm (H2). Tighten by hand taking care not to strip the threads (a torque setting not exceeding 0.45 - 0.55 Nm).

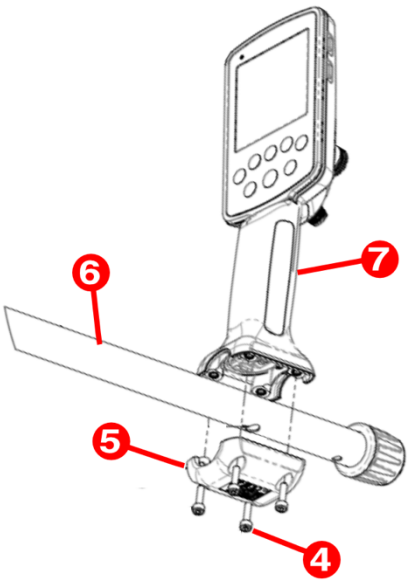


4. Reassembly of Control Pod to Upper Shaft

a. Locate the clamp [5] onto the Upper Shaft [6] using the location hole on the Upper Shaft. Note that the clamp should be orientated on the shaft so that the sloped edge of the clamp is towards the twistlock.



b. Bring the clamp [5] and upper shaft [6] together with the Control Pod [7] and fix with 4 x M4x16 screws [4] using Hex Driver 3mm (H3). The screws should be hand tight (or a torque setting not exceeding 0.95 - 1.05 Nm). Note that the Control Pod should be orientated on the shaft so that the rear of the Control Pod is towards the twistlock.



c. Charge the EQUINOX in the normal manner. When the battery is fully charged, the charge status LED will solid and remain on.