MERLIN Hemi Battery Replacement

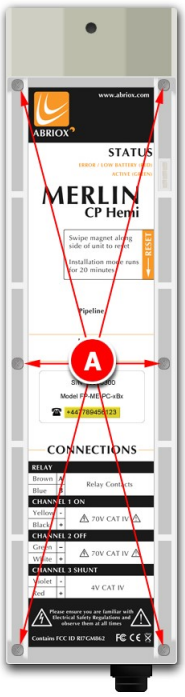
1. INTRODUCTION

The batteries fitted to a MERLIN Hemi are of a specific type, construction and chemistry. The batteries are supplied pre-fitted to a PCB. Replacement battery PCBs can readily be obtained from Abriox. When changing the batteries you must observe ESD precautions - that means you must be connected to electrical ground e.g. via ESD wrist strap.

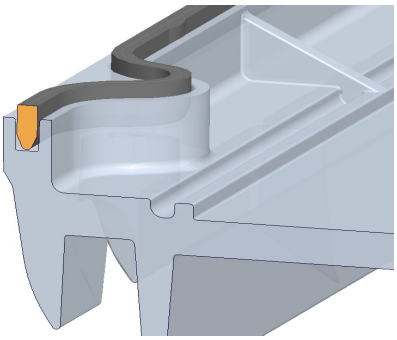
2. TOOLS REQUIRED

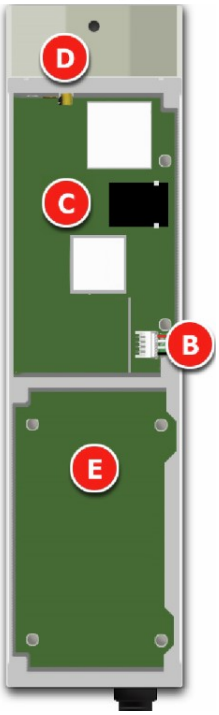
You will need the following tools: Cell/Mobile phone, ESD wrist strap, PZ1 screwdriver and a medium flat screwdriver.

3. INSTRUCTIONS



1) Remove the lid by unscrewing the six (PZ1) screws A.
2) Ensure a ESD wrist strap is worn, undo the four screws securing the main board C
3) Carefully unplug the white power connector B from the batteries to the main board C. This can be quite stiff.
4) With the aid of a medium flat-blade screwdriver, carefully prise the gold antenna connector D from the main board. You may find this can be quite hard to detach but it will pop out when enough force is applied.
5) Undo the four screws securing the battery board E carefully pull the antenna connector cable out and remove the battery board.
6) Obtain new battery board and orientate as shown.
7) Mate the gold antenna connector D into the main board, ensure it is securely fitted and isn't loose when pulled.
8) Secure the battery board E using the four screws (removed in step 5), hand tighten.
9) Fit and secure the main board C using the four screws (removed in step 2), hand tighten.
10) Reconnect the white power connector B to the main board C
11) Removed and discard the original gasket from the lid.
12) Starting at the central screw holes, push the tapered edge of the new gasket into the groove of the lid such that the flat face protrudes. Work the gasket evenly around the profile to ensure it is not bunched or stretched.





13) Fit lid and tighten screws (tighten screws firmly but not to the extent the case bows noticeably).
14) PTO for specific commands for redeployment.

Batteries in this product should not be disposed of with household waste. You should contact your local authority or distributor for details of the collection and recycling schemes available.

4. REDEPLOYMENT

4.1 Re-install the MERLIN at the Same Location (Battery Change On Site)

1) Ensure the MERLIN is reset and awake by swiping a magnet past it
2) Send the MERLIN `CMD:SYNCTIME` to set its date and time*
3) Normal operation is resumed
4) Record the date of the battery change and enter this into CPSM/iCPSM as soon as practicable**

NOTE:

*If the MERLIN has been turned off with a `CMD:UNITOFF` send the MERLIN `CMD:INSTALL` you will get a message to say the unit is already installed but this does ensure the MERLIN clock is set and CPSM/iCPSM is aware the unit is active and should report in.

**It is vital the battery change date is recorded in CPSM/iCPSM in order for the system to accurately reflect the new battery values.

4.2 To Install the MERLIN at a New Location

1) Ensure the MERLIN is reset and awake by swiping a magnet past it
2) Send the MERLIN `CMD:INSTALL PIPE:PIPELINE NAME LOC:LOCATION NAME`
3) Record the date of the battery change and enter this into CPSM/iCPSM as soon as practicable*
4) Finish installation by configuring the alarm thresholds in CPSM/iCPSM**

NOTE:

*It is vital the battery change date is recorded in CPSM/iCPSM in order for the system to accurately reflect the new battery values

The alarm thresholds **MUST be resent to the unit from CPSM/iCPSM after the `CMD:INSTALL`

4.3 To Replace an Existing MERLIN

1) Ensure the MERLIN is reset and awake by swiping a magnet past it
2) Send the MERLIN `CMD:REPLACE PIPE:MATCHING PIPELINE NAME OF THE ORIGINAL UNIT LOC:MATCHING LOCATION NAME OF THE ORIGINAL UNIT`*
3) Record the date of the battery change and enter this into CPSM/iCPSM as soon as practicable**
4) Finish installation by resending the alarm thresholds from CPSM/iCPSM***

NOTE:

*The **PIPE** and **LOC** names **MUST** match the original names **EXACTLY** or it will be installed as a new location

**It is vital the battery change date is recorded in CPSM/iCPSM in order for the system to accurately reflect the new battery values

***The alarm thresholds **MUST** be resent to the unit from CPSM/iCPSM after the `CMD:INSTALL`