Ref: FAQ0344	Version: 1.0
Title – LX logger dressing internal wires	
Made By: AB 22/05/15	(Issue 1)

Multilog LX - How to fit the FME Antenna lead and ensure cable routing is correct

Telit Modem Module

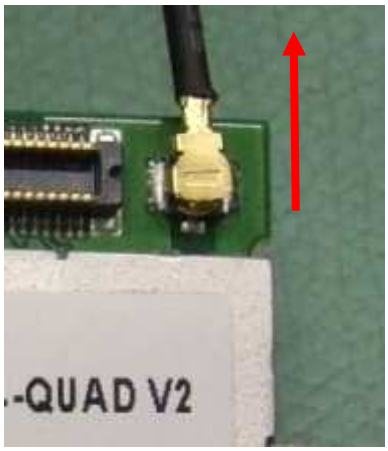
a) Fit the GSC connector from the FME antenna lead (***CABA8060***) to the Telit modem module (***GC864-QUAD***).

CP: Caution:-The GSC connector can be easily damaged.

Info: If the connector is properly aligned then little force will be required to mate it.

Info: If the mating halves are partially aligned then excessive force may ‘crush’ the connectors partially together giving the illusion of them being connected. This will give a poor join which may pass test but fail out in the field.

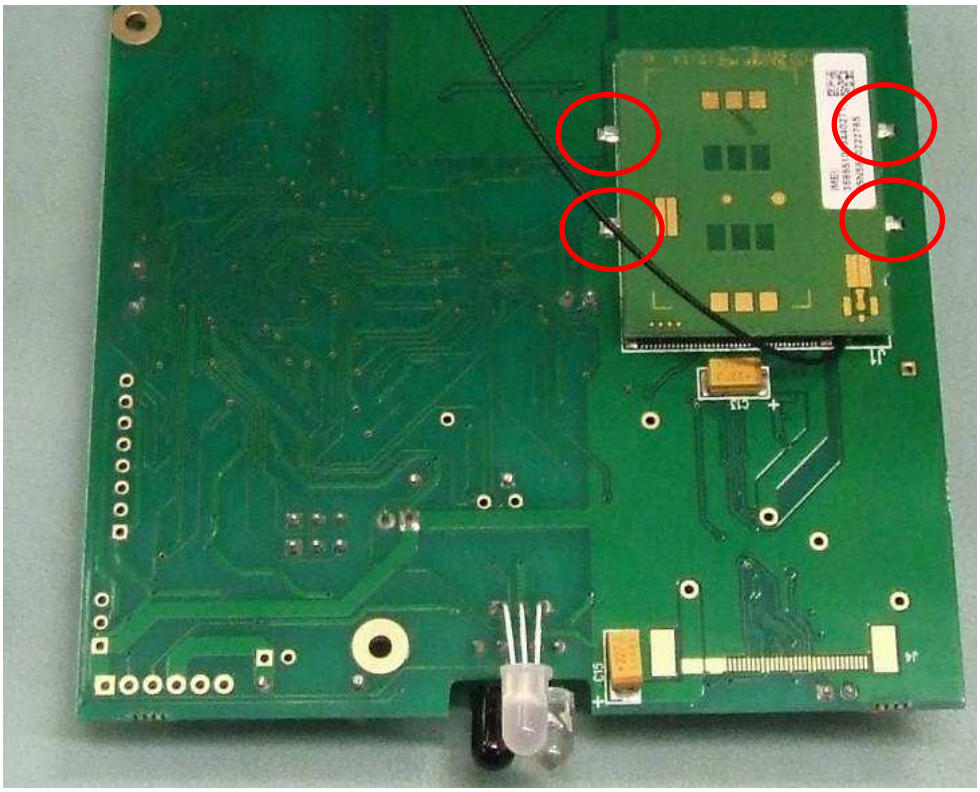
CP: Do not rotate connector.
CP: Ensure cable is aligned as shown in photo.



a) Align the ZIF connectors on the modem and LX PCB (***87-6812/01***).

b) Push together to fix into place.

c) Once aligned, solder the four ground tags of the modem.



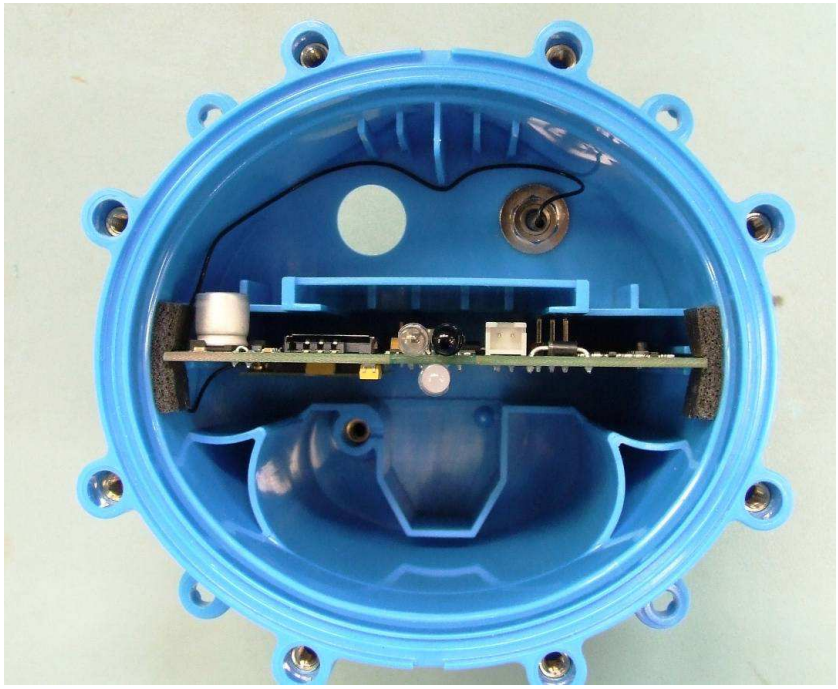
PCB Installation & FME Routing

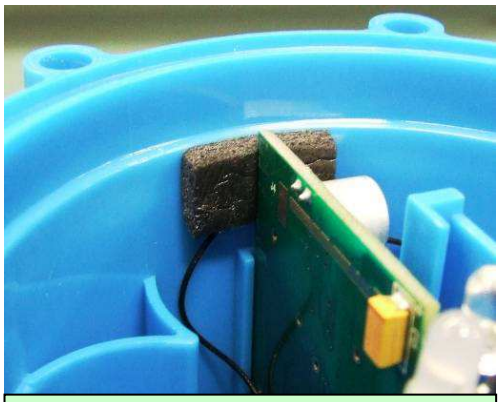
a) Fit PCB into housing guides

CP: Ensure no wires are trapped between the case and the bottom of the PCB.

b) Route FME cable around the outside of the case as shown below.

CP: Take care not to damage wires by dragging them along the edge of the PCB. (Instead push them into the foam and then down.





GOOD: Cables fitted into gap between cable guides and foam.

BAD: Cables twisted and squashed between PCB and foam.

Internal Transducer Routing

a) Route Internal Transducer cables in orientation shown below.

CP: Wires should be pushed into the gap between the PCB and the transducer, **NOT** left overhanging the shelf that the battery sits on, or caught under the PCB.

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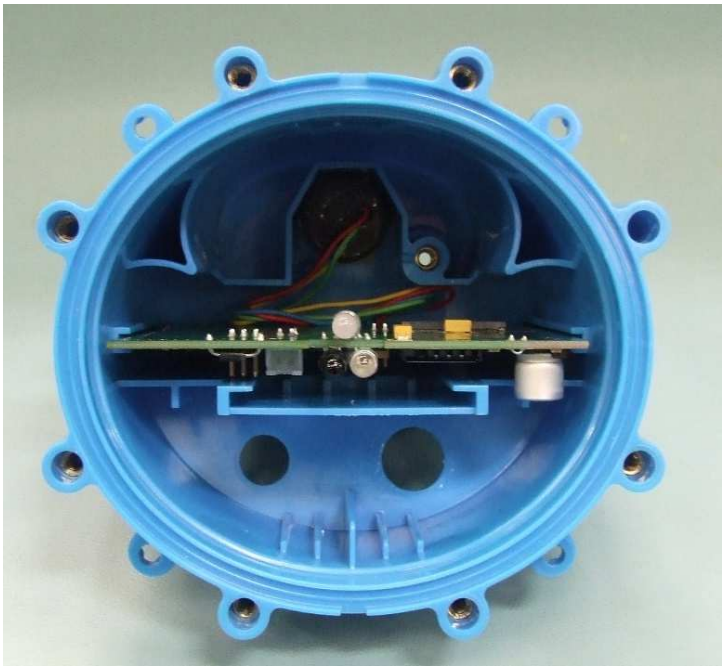
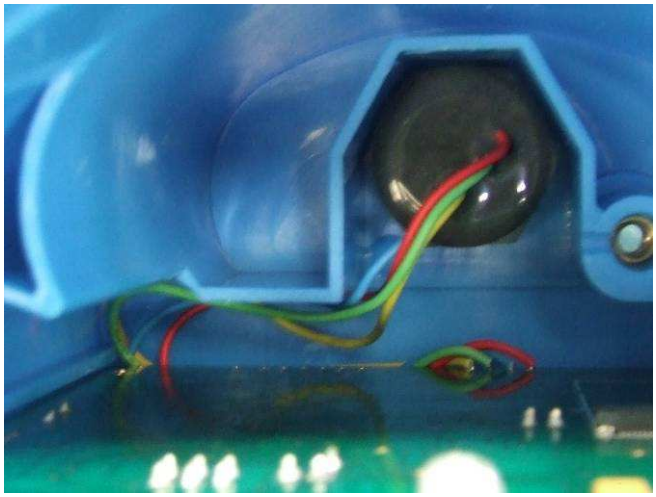
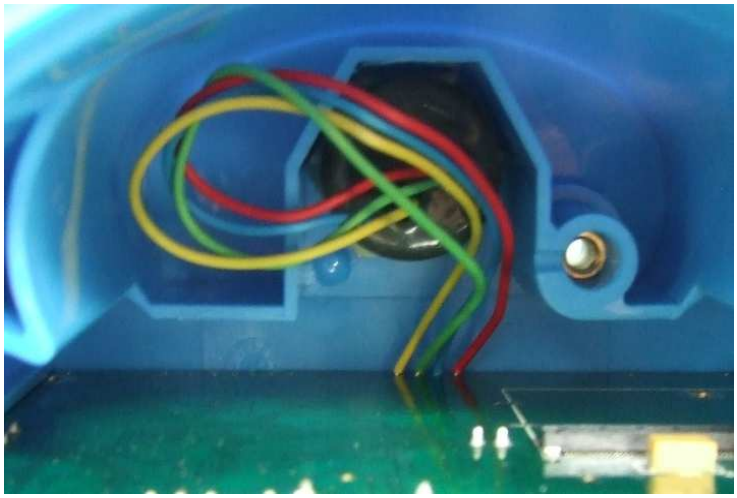




BAD: Cables trapped between PCB and housing.

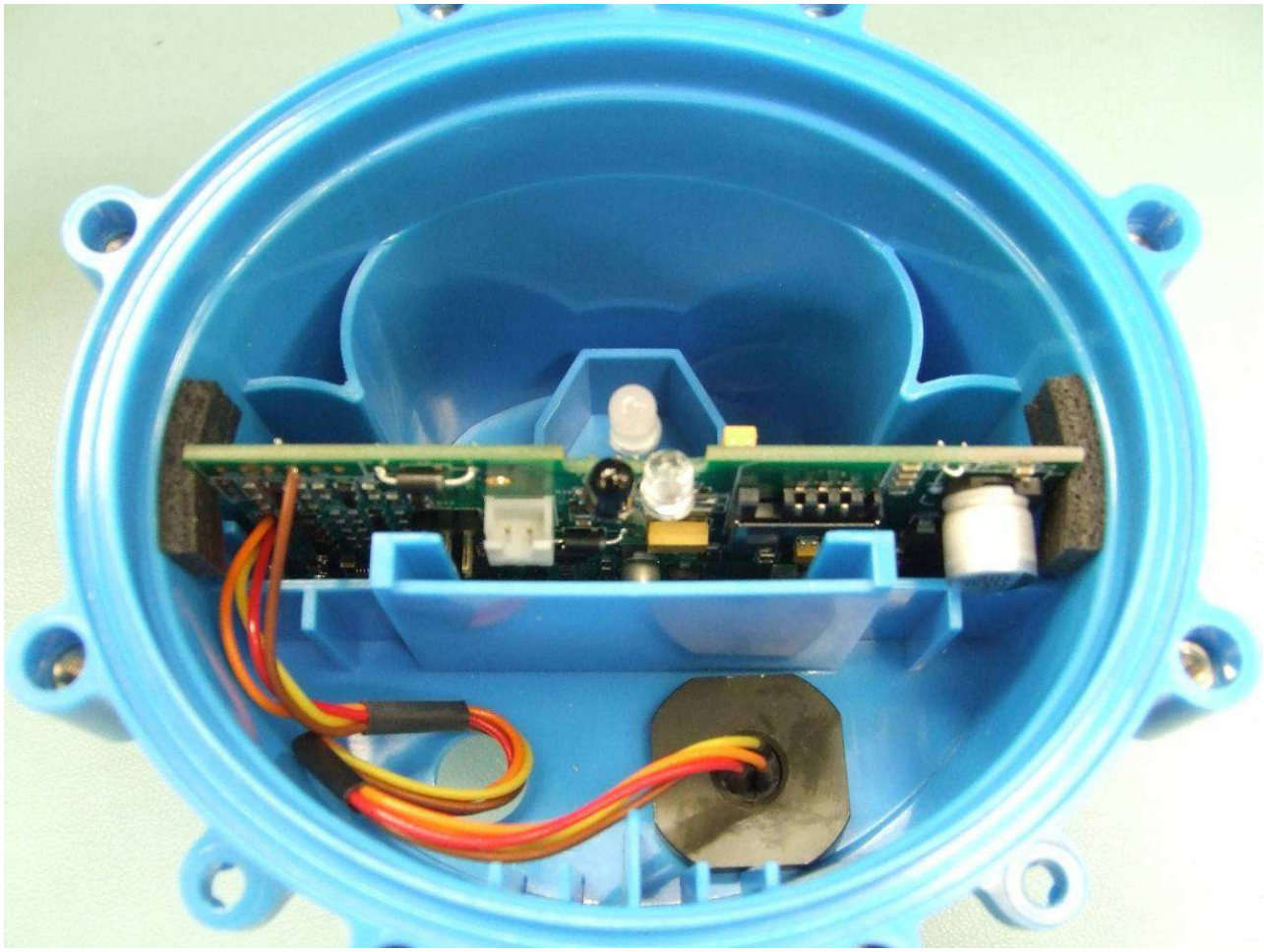


BAD: Cables overhanging battery shelf.

Flow Aphenol Routing

a) The Flow Amphenol sub-assembly should have its wires inserted from the component side of the PCB. The excess cable should be coiled neatly in the potting well.

CP: Do not stuff excess cable up against the PCB as could lead to a short circuit.

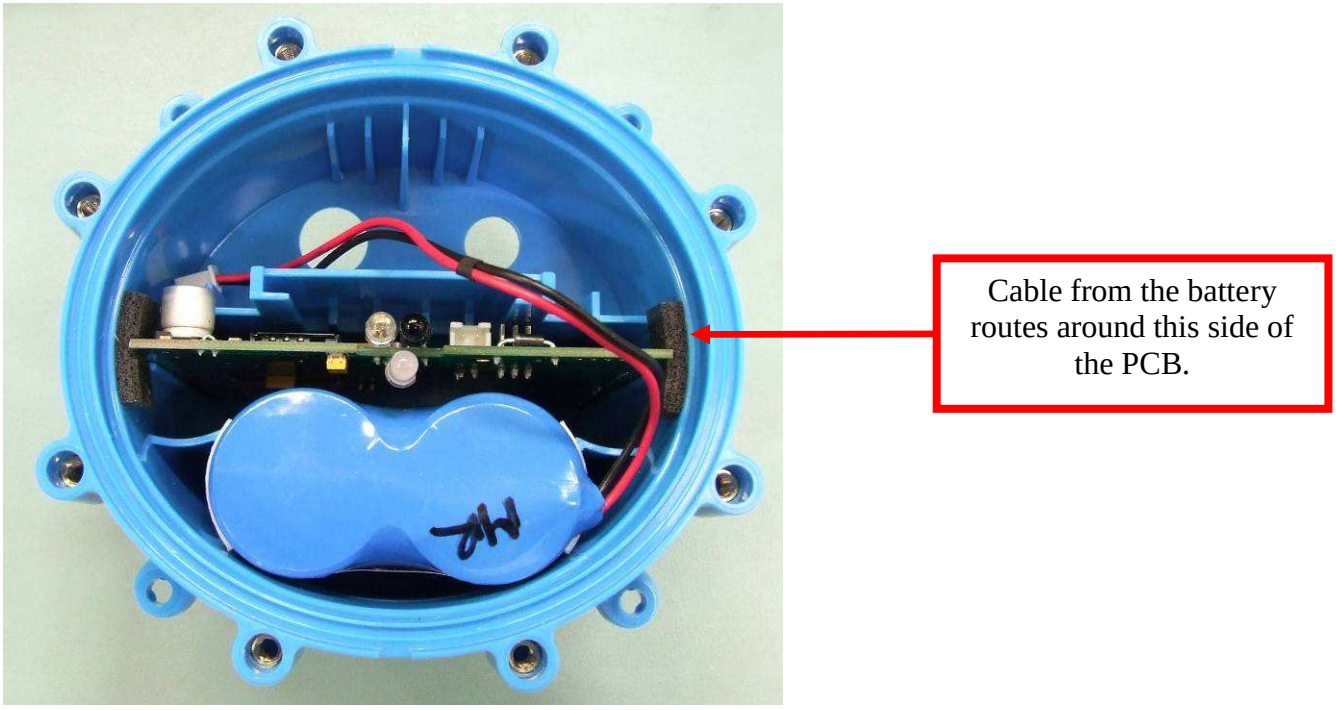


Battery Routing

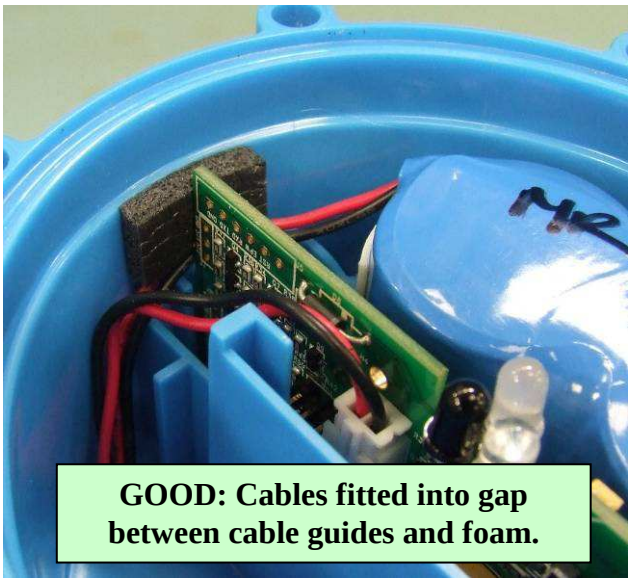
CP: Battery may only be fitted after:-
(**i**) It has been tested and had protective foam strips added.
(**ii**) PCB has passed current consumption test.

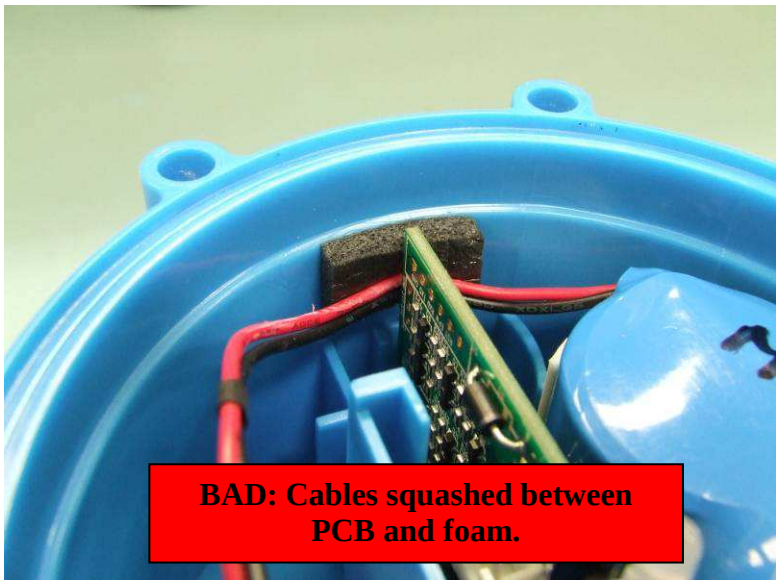
a) Place battery into housing.

b) The Flow Amphenol sub-assembly should have its wires inserted from the component side of the PCB. The excess cable should be coiled neatly in the potting well.



c) Slide wires into gap under foam. Take care not to damage wires by dragging them along the edge of the PCB. Instead push them into the foam and then down.





Reassemble the logger lid, torque the securing screws correctly and pressure test the logger.

Document History:

Edition	Date of Issue	Modification	Notes
1st	22/05/15	Release	