



RD Instruments
Acoustic Doppler Solutions

Field Service Bulletin

FSB-138

Long Ranger External Battery Housing

Date: July 1, 2003

Abstract

The Long Ranger with an external battery housing does not get powered from the batteries. The ADCP works with the 48 VDC power supply only.

Instrument/Program Affected

Long Ranger with an external battery housing

Description

The internal power cable part number 737-3033 is incorrectly wired.

Solution/Action

Short-Term Solution

Remove the internal I/O cable and modify it as shown below.

Long-Term Solution

A new cable will be provided as soon as possible. RDI regrets any problems this may have caused.

Cable Modification

The internal power cable has four connectors; at one end are two 2-pin connectors and a ten-pin connector, on the opposite end is an eight-pin connector.

Locate the eight-pin connector and cut the BLUE wire going to pin 6. Short the RED wire on pin 2 to pin 6. Use electrical tape to cover the solder joint. See the figures on the next page for help.



NOTE. To download data from the ADCP, disconnect the external battery housing and use the AC/DC power adapter. Connect the power adapter cable directly to the Long Ranger monitor.



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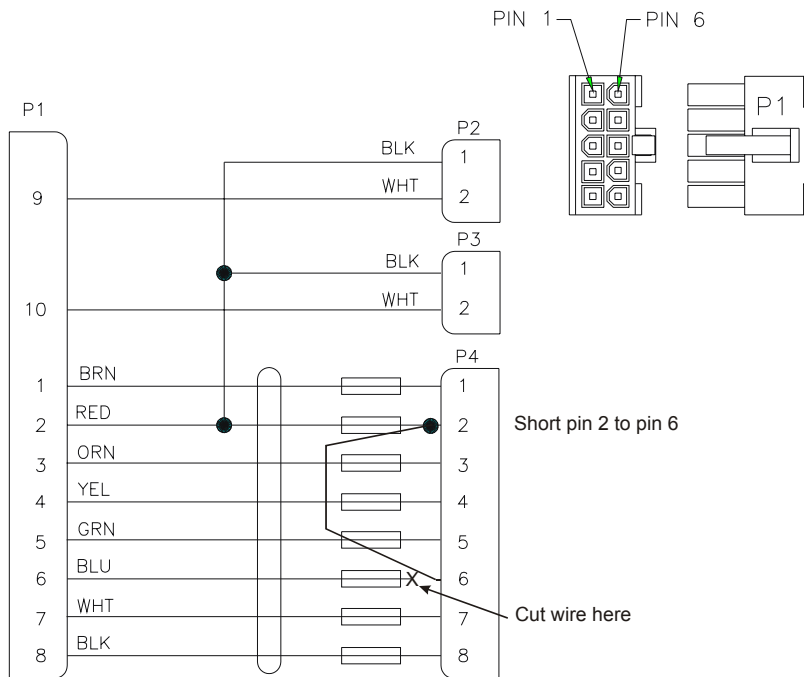


Figure 1. Internal Power Cable Schematic (737-3033a)

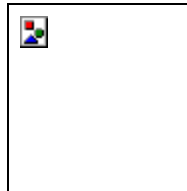
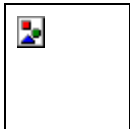


Figure 2. Modification to Eight-pin Connector