

Fault Finding

Fault Diagnosis Using Test Mode

Test Mode allows the user to run some simple diagnostic tests on the unit in case a fault should occur either within the display unit or the transducer.

Voltage Test:-

Once Test Mode is entered from the menu, the user is presented with the “Voltage Test” screen. This test monitors the battery supply voltage to the instrument and also the supply voltage to the transducer.

Low voltages on either supply will indicate a “LOW” indication on the display. It should be noted however that if the battery voltage goes below 12 Volts, the transducer voltage will decrease and will reduce transducer performance.

VOLTAGE TEST	
BATTERY:	13.4 V OK
TRANSDUCER:	12.0 V OK

Receiver Test:-

Pressing the **MENU** button will change the test to the “Receiver Test”. This test provides a simple check on the receiver and, should a fault occur, helps the user to establish whether there is a fault with the transducer or the display unit - or even a poor transducer connection.

RECEIVER TEST		
CH1 RECEIVE LEVEL:	101	OK
CH2 RECEIVE LEVEL:	101	OK
CH3 RECEIVE LEVEL:	100	OK
TRANSDUCER: NOT CONNECTED		

The display shows the output level of each of the 3 receive channels measured during the test. The display unit will analyse these levels and provide a diagnosis. It will decide whether or not it thinks the transducer is connected and then decide whether or not the receive level is acceptable for each channel and display “OK” or “LOW” accordingly.

Fault Finding

One of the four messages will be displayed:-

- *Transducer: Connected* - If the transducer really is connected and all levels are “OK” then in most cases there should be no problem. If the transducer is not connected and this message is displayed, please contact EchoPilot.
- *Transducer: Check Connection* - If the transducer is connected and one or two channels only are “LOW” then check the transducer plug is firmly pushed into the socket (ensure the ‘O’ ring is greased!). If the connection is definitely OK, then unplug the transducer and check that the display unit is OK (see message below).
- *Transducer: Not Connected* - If the transducer is not connected and all levels are “OK” then in most cases there is no problem with the display unit. If the unit is functioning incorrectly with the transducer plugged in but this test passes with the transducer disconnected - then the problem is most likely to be in the transducer or the transducer connection.

If the transducer is not connected and one or more of the levels are “LOW” then the problem is within the display unit. Please contact EchoPilot.

If this message is displayed and the transducer is connected - unplug the transducer in order to check the display unit. If the display unit is OK - then the problem is most likely to be in the transducer or the transducer connection.

If in any doubt, please contact EchoPilot who will happy to assist in the diagnosis.

EEPROM Test:-

Pressing the **MENU** button will change the test to the “EEPROM Test”. This test checks the non-volatile memory that stores the user settings. This screen also

EEPROM TEST
EEPROM TEST PASSED
RUNNING TIME: 6.8 HRS
PRESS UP ARROW TO RESTORE DEFAULTS