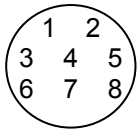
Alpha Marine Systems Compass Sensor Test Procedure

1. Disconnect the cable from the Compass Sensor (this is the cylindrical unit with mounting bracket).

2. Using an ohm- or mulit-meter and the diagram below for reference, check the resistance between the following pin pairs. These are read at the Compass Sensor (not through the detached cable).



(Male socket pin pattern as viewed at top of Compass Sensor)

Pins 1-2 = 30 ohms
Pins 3-6 = 100 ohms
Pins 5-8 = 100 ohms

The values you measure should fall within about 10% of those shown here. All other pin combinations should read as an open circuit (infinite resistance). Pin 4 is common with the compass housing.

If your results are significantly different, then there may be a problem with the Compass Sensor. However, it is possible for a Compass Sensor to fail in a way that will still pass this test, so passing is not a guarantee of a healthy unit.

If you would like to have the Compass Sensor examined by a service center, you should provide both the Compass Sensor and the Compass Electronics Module (the black square metal box at the other end of the cable that plugs into the Compass Sensor). Because these are a matched pair, they must be purchased/tested/serviced as a unit.

If you have any questions about this testing procedure, please contact the service department at The Offshore Store (service@offshorestore.com) or Alpha Marine Systems (service@alphamarinesystems.com).

This procedure was prepared 2007 Sep 07 by the staff of The Offshore Store (revision A).

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