

Testing the New Style Windvane

To check that your wind vane is serviceable:

1. Connect the wind vane to a serviceable ST60 Wind instrument as in Figure 1.

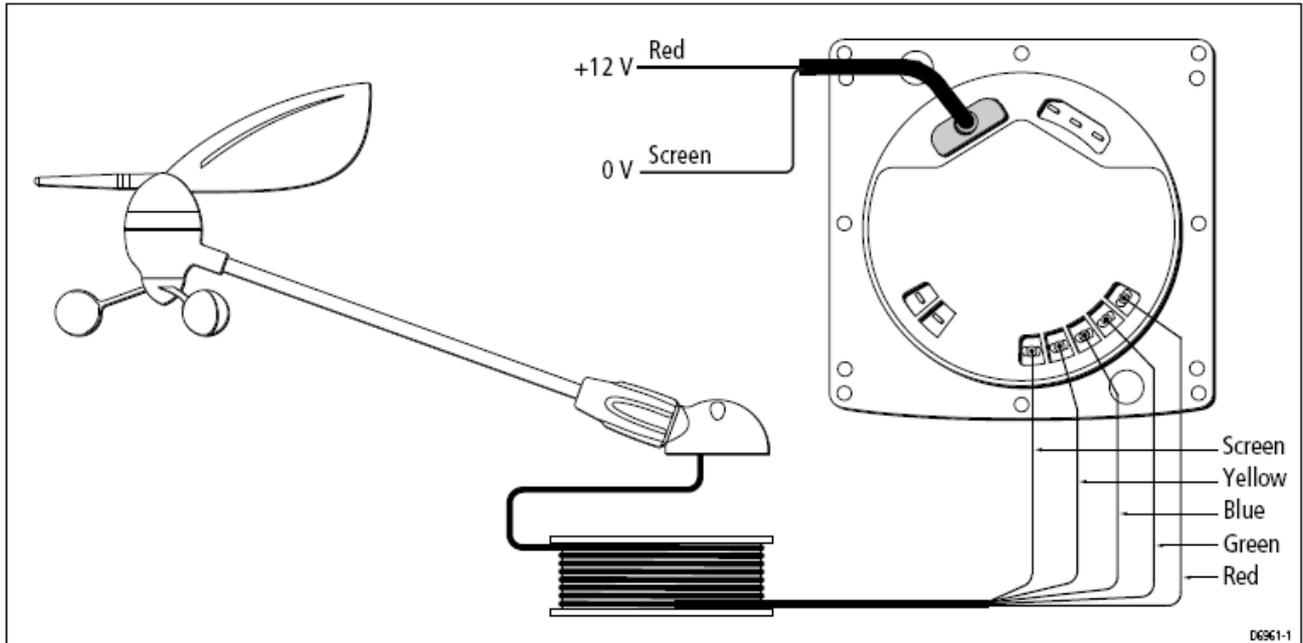


Figure 1: Test connections

2. At the ST60 Wind instrument, check that the voltage between the red and black connections is 8 V dc, ± 0.25 V:
3. Rotate the vane to the forward, starboard, aft and port orientations in turn and, at the instrument, check the sine and cosine signals by measuring the voltages as follows:

Vane direction	Voltage between Blue & Black (sine signal)	Voltage between Green & Black (cosine signal)
Pointing forward	Half the supply voltage measured at step 2.	Half the supply voltage as measured at step 2 plus at least 1 V but not more than 2 V.
Pointing to starboard	Half the supply voltage as measured at step 2 plus at least 1 V but not more than 2 V.	Half the supply voltage measured at step 2.
Pointing aft	Half the supply voltage measured at step 2.	Half the supply voltage as measured at step 2 minus at least 1 V but not more than 2 V.
Pointing to port	Half the supply voltage as measured at step 2 minus at least 1 V but not more than 2 V.	Half the supply voltage measured at step 2.

4. SLOWLY rotate the anemometer cups and check that the voltage between the yellow and black connections switches between approximately 8 V and 3.2 V, twice during each rotation.