

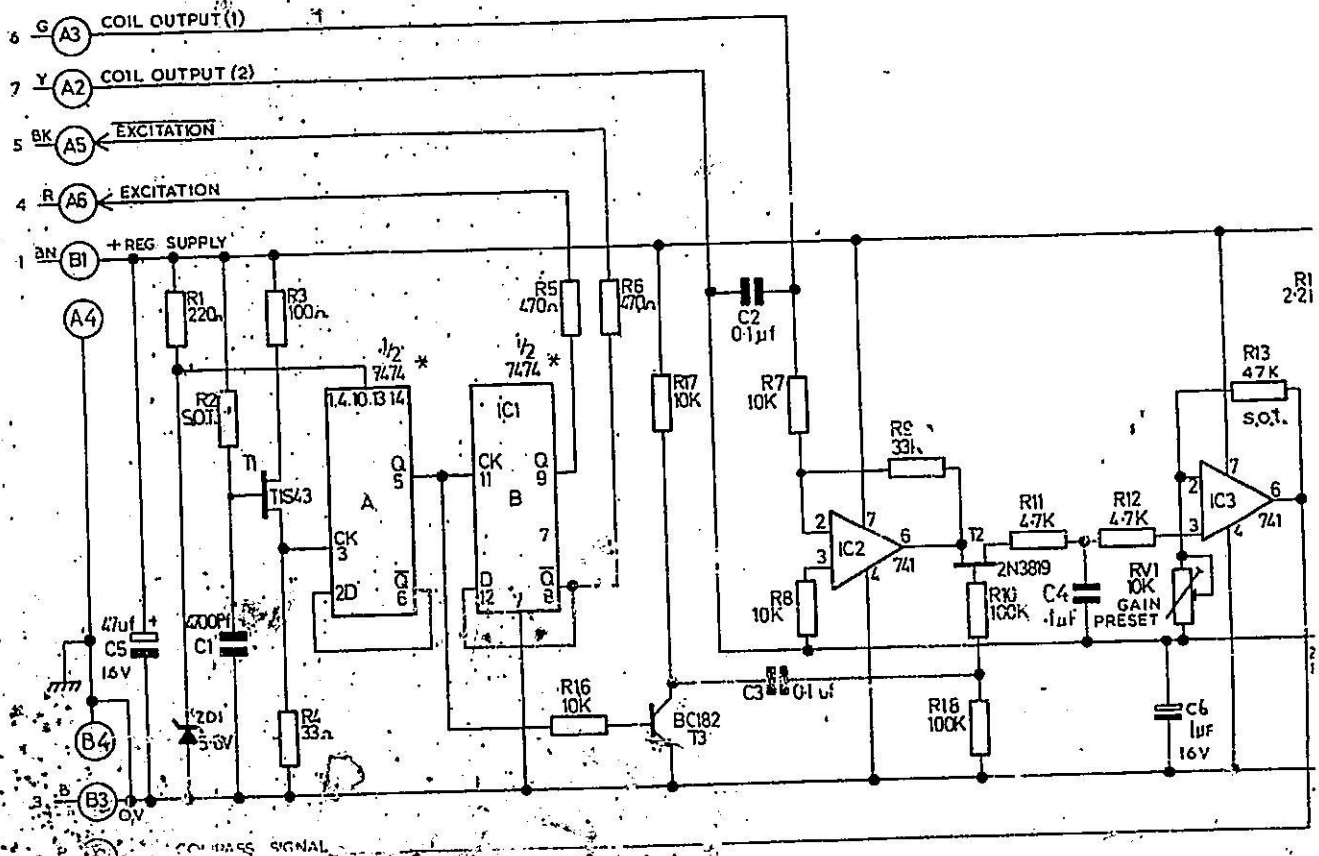
Supply Voltage: 10.5v stabilised; Weight: 1.0Kg; Cable Supplied: 1m to connector box, 4 way x 7/0.1mm; 2m main cable, 3 way x 16/0.2mm; Environmental Classification: Not splashproof, and should be mounted under cover from direct spray. Compass Safe Distance: Coil Unit - Not applicable; Box: Grade 1, 300mm (12 ins); Grade 2, 300mm (12 ins).

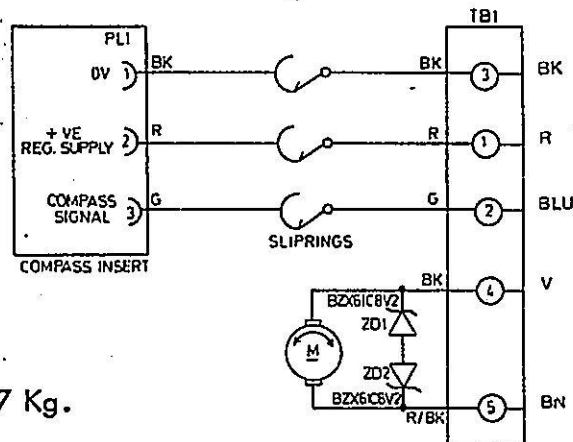
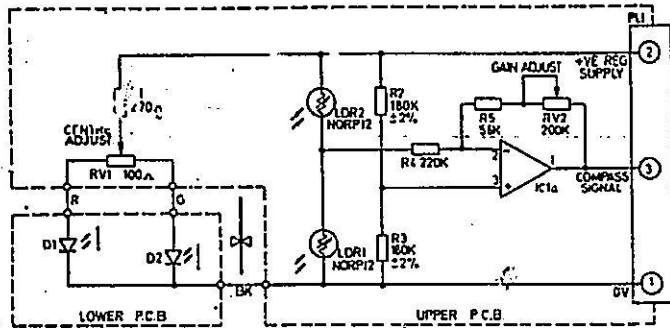
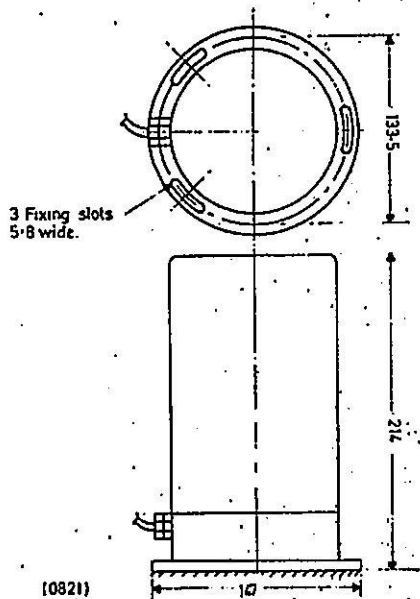
DESCRIPTION.

The 503 Course Setter is a fluxgate device suitable for mounting directly on the top glass face of a fully gimballed steering compass. Course selection is achieved by turning the small knob until the desired course is shown on the scale, and the design is such that the vessel responds in the same sense as the rotation of the control knob. A flexible lead from the course setter connects to a small cast metal box containing the electronics, and this connects directly into the system distribution box.

When correctly installed the fluxgate unit has no measurable effect whatever on the steering compass and a certificate to this effect with the coil coupled to a Class A compass has been issued by the Admiralty Compass Observatory.

The fluxgate unit has a diameter of 76mm (3 ins) and will mount satisfactorily on a wide range of compasses; The compass card should be of approximately 180mm (7 ins) diameter if the 503 is not to obscure the scale.





Supply Voltage: 10.5v stabilised. Weight; 1.7 Kg.

Cable Supplied: 5m 5way x 7/0.2.

Environmental Classification: Weatherproof.

Compass Safe Distance: Grade 1; 600mm (24 ins); Grade 2, 350mm (14 ins).

INSTALLATION

Mount the Course Setter on a solid member as free of vibration as possible, and clear of any magnetic interference. The 504 is weatherproof and can if necessary be in an exposed position. As a general rule try to get the unit aft of midships, and certainly in a planing craft avoid the wave-bounce point in the bow. Minimum distances from likely sources of interference are given below and should be strictly adhered to:-

Radar Scanners (7-25Kw), 3.7m (12ft); Ship's engines, Radar Scanners (3-7Kw), PSUs, Cables carrying RF, 2.6m (8ft); Radar Displays, Small Motors, Autopilot Drive Motors and Pumps, and Heavy Current LT Cables, 1.3m (4ft); Autopilot Control Unit and Distribution Box, Panel Meters, Metal Structure Ends, 0.8m (2½ft); Echo Sounders, Other Autopilot Units, Steel Objects, 0.7m (2ft)

Survey the proposed site with a hand bearing compass; Any deviation should not exceed 7°. Turn on and operate all electrical equipment on the boat (don't forget the fridge) and check again. Any observable interference is too much. And remember to look for any sources of interference above and below the site, which will roll with the boat and give rise to heeling error.

With the Course Setter in place, take off the top cover. There are three small screws retaining this, and although the spinning is a tight fit on its base it really is not necessary to use a tin opener, as the author witnessed on one occasion. The trick is to remember to undo the cable gland nut so as to allow air to enter the unit; The top cover can then be removed with a firm pull upwards.

Check that all bubbles are contained in the bubble trap. On a high speed planing craft leave the two gimbal locking screws in place, but on a displacement boat THESE SCREWS MUST BE REMOVED. They are made of nylon and are located in each of the two outer arms of the gimbal assembly. Keep them handy in case the unit is removed at some time in the future. Replace the top cover and wire up

504	CABLE COLOUR	600 BOX
(4)	VIOLET	A7
(5)	BROWN	A6
(11)	RED	A10
(12)	BLUE	A8
(13)	BROWN	A9

Connection Chart