

AERIAL TUNING OUTFIT ETB

ETB

SUMMARY OF DATA

PURPOSE

Outfit ETB enables a wire aerial, which has a capacity greater than 240 pF and is quarter wave resonant above 3 MHz, to be matched to a feeder cable of 50 ohms impedance, using a remote control system.

BRIEF DESCRIPTION

The outfit comprises a Tuner Radio Frequency and a Power Supply. The Tuner houses the variable components of the r.f. matching circuit and the associated d.c. driving motors, which also drive potentiometers used to give position indication remotely. The control of the driving motors may be adapted to be either by means of relays from, or directly from, a remote unit. (The remote unit, containing position indicators and tuning controls, is not part of Outfit ETB). The Power Supply contains transformers and rectifiers to supply the motors, the position indication circuits, and, when the Tuner is adapted for relay control the control circuits. Some of the relays of the control circuits are also in the Power Supply.

ELECTRICAL CHARACTERISTICS

The Tuner will perform matching over the frequency range 240 kHz to 3 MHz. It will accept an input of 1 kW p.e.p. between 1.5 MHz and 3 MHz. Below 1.5 MHz the power input must be limited to 500 W p.e.p.

PHYSICAL DATA

		Height	Width	Depth	Weight
5840-99-580-2114	Tuner, Radio Frequency	5 ft 11 in	2 ft 0 in	2 ft 1½ in	360 lb
5820-99-916-4931	Power Supply	9 in	12 in	1 ft 5½ in	41 lb

POWER REQUIREMENTS

Control Supply Load	Single Phase a.c. 115/230 V 50-60 Hz 0.8 A at 230 V, 1.5 A at 115 V (185 watts)
Heater Supply	1. Obtained via Power Supply. Single Phase a.c. 115/230 V 50-60 Hz common with control supply 1.65 A at 230 V, 3.3 A at 115 V (380 watts - heaters on, 80 watts - fans only). 2. 115/230 V a.c. or d.c. (separate from above) anti-condensation heater supply 0.65 A at 230 V, 1.3 A at 115 V (75 watts).

HEAT DISSIPATION

Tuner	Up to 500 watts r.f. power may be dissipated inside the tuner.
Power Supply	110 watts

HANDBOOKS

BR 2328(1) and (2) Handbook for Marconi Transmitter Type NT204 (Naval Type 640).
ICS Handbooks.

ESTABLISHMENT LIST

E 1358.

INSTALLATION SPECIFICATION

