RECEIVER OUTFIT CFA

SUMMARY OF DATA

PURPOSE

VLF reception in submarines.

TYPE OF RECEPTION

Telegraphy.

FREQUENCY RANGE

14 to 22.5 kHz.

BRIEF TECHNICAL DESCRIPTION

The required r.f. signal, in the range 14 to 22.5 kHz, is amplified and then mixed with the output from a local oscillator to produce an i.f. of 5.5 kHz. The i.f. amplifier output is mixed with a fixed 6.5 kHz signal from a beat frequency oscillator, and the resulting 1 kHz output is fed, after amplification, to a monitor loudspeaker, two headphone jacks and a 600 ohm output jack. Delayed A.G.C. is applied to the r.f. and i.f. amplifiers.

5820–AP 164474 RECEIVER, RADIO

MAJOR UNITS

1. 5820–AP 164474 Receiver, Radio – Height 10¼ in., Width 13 in., Depth 19 in. (including handles and plugs), Weight 46 lb.

2. AP 58549A Mount, Sprung, for Receiver.

ELECTRICAL CHARACTERISTICS

Sensitivity:	600 ohm output: not less than 300 mW, for 1/uV input. When the 600 ohm output is set to 10 mW with a 0.4/uV input, the signal plus noise to noise ratio is not less than 10 dB. Audio outputs: not less than 150 mW into 3 ohms for 1/uV input.
Bandwidth:	150 Hz.
Outputs:	Two low impedance headphone jacks. One monitor loudspeaker. One 600 ohm output jack for the use of a teleprinter or other auxiliary equipment. The outputs to the headphone jacks and monitor loudspeaker are controlled by a single adjustment and a separate control is provided for the 600 ohm output.
Scale Accuracy:	± 0.2 kHz.

POWER SUPPLIES

115 V 50/60 Hz single phase a.c.
80 W including the supplies to the aerial system.

AERIAL SYSTEM

Aerial Outfit ALK
Aerial Outfit ALL

HANDBOOK

BR 2366

ESTABLISHMENT LIST

E1287

INSTALLATION SPECIFICATION

B914