

Fig. 1 - Type AR4 Portable Receiver

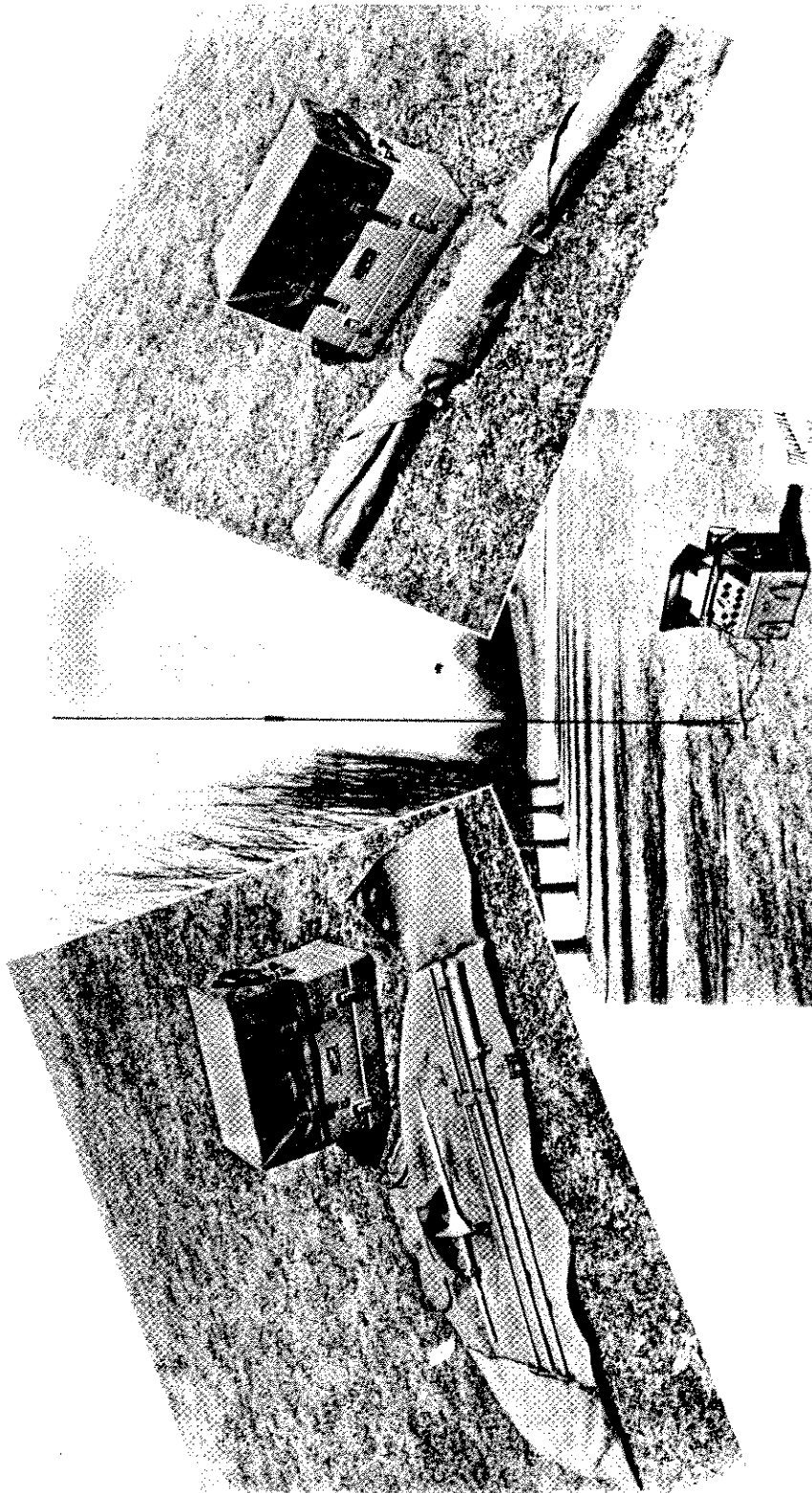


Fig. 3 - Type AR4 Portable Ground Receiver

Sect. 8

Topic V. (cont'd)

load is taken, via the A.V.C. - CW switch, back to R.F., first detector and I.F. grids for A.V.C. purposes. A 1H5G tube and its associated circuits is used as an oscillator working in the neighbourhood of 465 kc. This is coupled to the diode of the first audio 1H5G tube for the purpose of beating the I.F. carrier down to an audible note when receiving CW signals. The B.F.O. filament supply is turned ON or OFF, by the A.V.C. - CW switch; this switch also disconnects the A.V.C. circuits when on CW. The B.F.O. control varies the beat note plus or minus 5 kc. The 1A5G pentode output tube is matched via an auto-transformer and blocking condenser to an impedance of 10,000 ohms across either of the phone jacks.

MAINTENANCE

6. (a) Access to the chassis wiring may be had by removing the tray on the bottom of the chassis.
- (b) Voltages across the various components of the receiver should be measured with a D.C. voltmeter having a resistance of 1,000 ohms per volt. When measuring voltages on the receiver, the B.F.O. should be turned on and the CW sensitivity control kept full clockwise. All voltages should be within the limits specified.