

ALIGNMENT PROCEDURE

EQUIPMENT ALIGNMENT CONDITIONS

Signal Generator: Load Impedance : 5,500 Ohms when output meter is connected across speaker transformer primary.

Output Meter: Load Impedance : 4 Ohms when output meter is connected across speaker transformer secondary.

Mica Capacitor : 0.01MF (for I.F. trans. alignment)

Dummy Antenna : 200MMF. Mica Capacitor Output Level : 50 Milliwatts Vol. Control : Max. Vol. fully clockwise

Alignment Tools : Type M195 and FM581. Intermed. Freq.: 455 Kc/s. Input Voltage : 230 Volts 50 Cycle AC. Input to trans. 221-250 volt pri. tap.

1. Remove push-on type control knobs.
2. Fasten clip on to pick-up arm.
3. Remove two screws, cup washers and rubber washers situated each side of motor mount plate near side of cabinet.
4. Prise up motor mount plate with motor attached.
5. Disconnect pick-up lead plugs from their sockets.
6. Unsolder AC. leads to motor at the terminal strip or unfasten the leads inside the switch terminal box on the motor mount plate.
7. Remove two screws fastening loop aerial to cabinet.
8. Remove the nut and washers on each screw protruding through the two brackets on the rear of chassis and the nut and washer on each screw protruding through the two slotted brackets on the front of the chassis.
9. Tilt chassis on its power transformer end.

Opera-Generator Generator Dummy
tion Connection Frequency Antenna Instructions

10. To control grid of 6U7G valve 455 Kc/s. 0.01MF. Mica capacitor in series with Generator. Leave grid cap on valve. Peak 2nd I.F. trans. pri. and sec. for max. output.
11. To control grid of 6BE6 valve (pin No. 7) 455 Kc/s. 0.01MF. Mica capacitor in series with Generator. Turn cond. gang plates fully out of mesh. Leave grid wire attached to valve socket. Peak 1st I.F. trans. pri. and sec. for max. output. Repeat operations No. 10 and 11.
12. Refit chassis to cabinet and make sure the nuts on the mount screws are tightened securely.
13. Refit push-on type control knobs.
14. Refit loop aerial to cabinet.
15. Fully mesh the cond. gang. plates and set the centre of the control knob pointer to align with the centre of the end of travel mark on the dial reading near 540 Kc/s.

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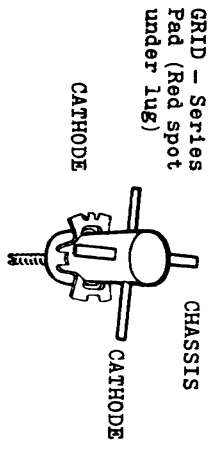
17. To AVC end of loop aerial (outside turn of sec.) 600 Kc/s. 200 MMF Mica capacitor in series with Generator. Turn cond. gang and control knob pointer to 600 Kc/s. and peak the oscil. coil ind. trim (iron core) for max. output. Rock the gang to and fro through the signal while adjusting.
18. To AVC end of loop aerial (outside turn of sec.) 1400 Kc/s. 200 MMF Mica capacitor in series with Generator. Turn cond. gang and control knob pointer to 1400 Kc/s. Adjust oscil. coil trim. condenser for logging and peak loop aerial trim. cond. for max. output. The loop aerial must be in its mounted position when the loop trimmer is being peaked.
19. Repeat operations No. 17 and 18.
20. Refit motor assembly to cabinet in exact reverse procedure to removing it.

LOOP AERIAL

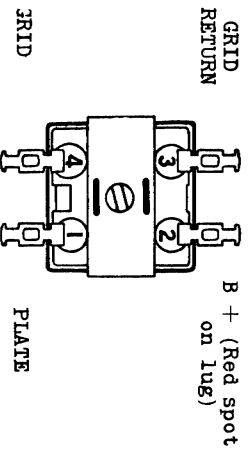
Primary (3 turns)
Outside turn - AERIAL LOADING COIL
Inside turn - EARTH SOCKET AND CHASSIS

Secondary
Outside turn - AVC.
Inside turn - GRID.

OSCL. COIL



No. 1 I.F. TRANS.



No. 2 I.F. TRANS.

