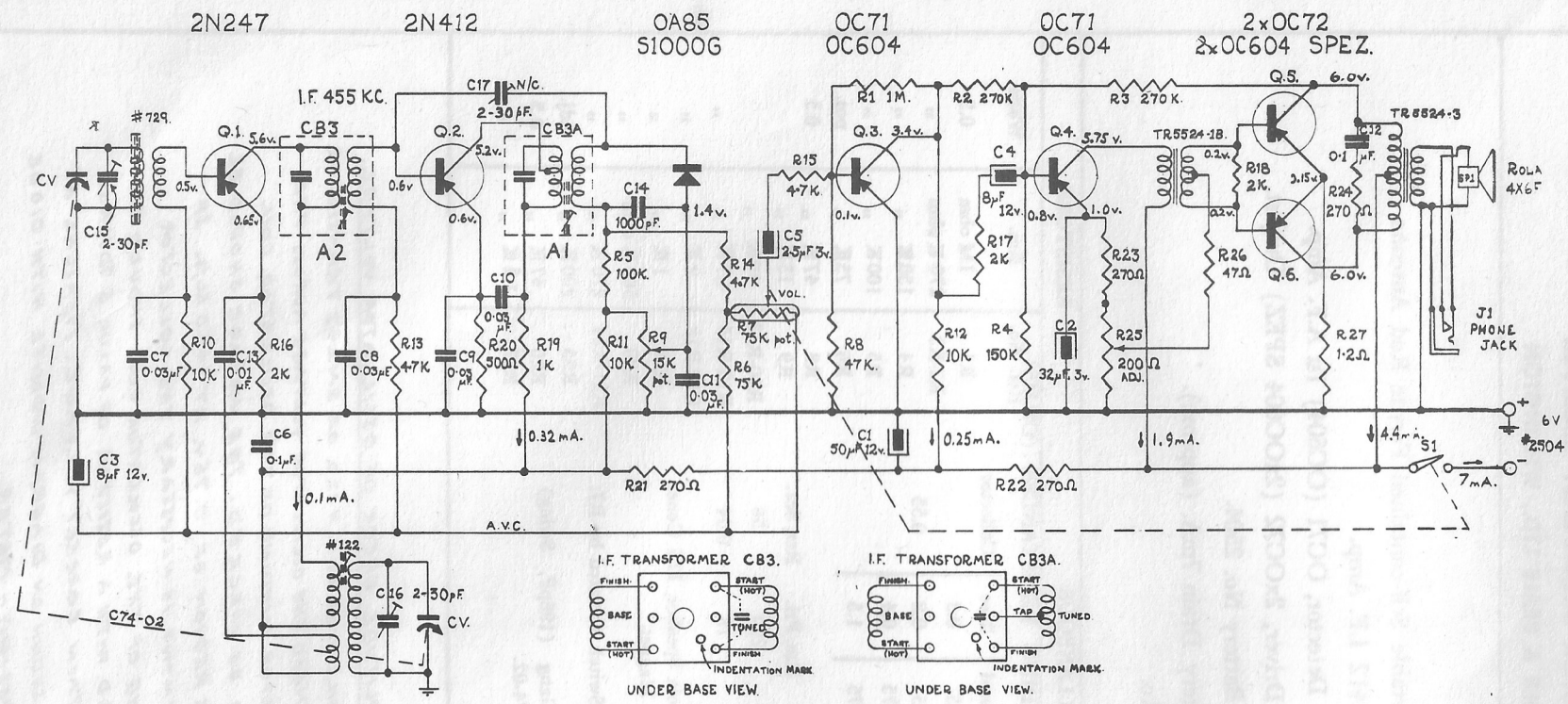




SCHEMATIC DIAGRAM MODEL "PORTABLE"

1. All voltage measurements shown are from point to chassis, with a battery terminal voltage 6 volts. No signal input. Volume control zero.
2. All voltage checks should be made with a voltmeter of 10 V. full scale reading and having a total resistance of 250,000 ohms, (25,000 ohm/V.)
3. When making resistance checks, disconnect battery and observe the polarity of electrolytic condensers, where such appear.
4. Nominal tolerance on components makes possible a variation $\pm 10\%$ in voltage and resistance readings.
5. Avoid operations on the receiver with battery connected. Always re-check total battery current before permanently re-connecting battery. Never reverse the battery polarity.
6. To remove transistors, disconnect battery and free projecting leads of transistor from socket tags. A miniature soldering iron is essential to avoid overheating.

ALIGNMENT INSTRUCTIONS

To Adjust Diode Bias
Clip D.C. Voltmeter (1-3 volts full scale and 10-20,000 ohms per volt) across OA85 and adjust R9 for zero volts.

To align I.F. Amplifier
Fully unmesh variable condenser and feed 455Kc/s generator through .1 mfd. condenser to base of converter (Q1). Adjust A1, A2 and C17 for max. output. As the adjustment of C17 is critical, A1 and A2 may need re-adjustment with change of C17.

Adjust RF Trimmer C15 for max. output at 1400Kc/s.

STATIC VOLTAGES AND CURRENTS

Conditions: Battery Volts 6.0

Input: No signal.

Gang: Fully meshed.

Stage	Transistor	Emitter Volts	Base Volts	Collector Volts	M.A.
Mixer	2N247	0.65	0.5	5.6	0.1
IF	2N412	0.6	0.6	5.2	0.32
Diode	OA85	1.4	—	—	—
1st Aud.	OC71	0	0.1	3.4	0.25
Driver	OC71	1.0	0.8	5.75	1.9
O.P.	OC72	0.15	0.2	6.0	4.4