

PHILCO

Models 200, 300

General Description: Six-transistor (plus crystal diode), two-waveband (M.W./L.W.) receiver. Model 200 is a small table receiver using basically similar chassis to the portable Model 300.

Power Supply: Two 6-volt batteries (Ever Ready PP1 or equivalents). Consumption no-signal about 12 mA., average signal volume 20 mA.

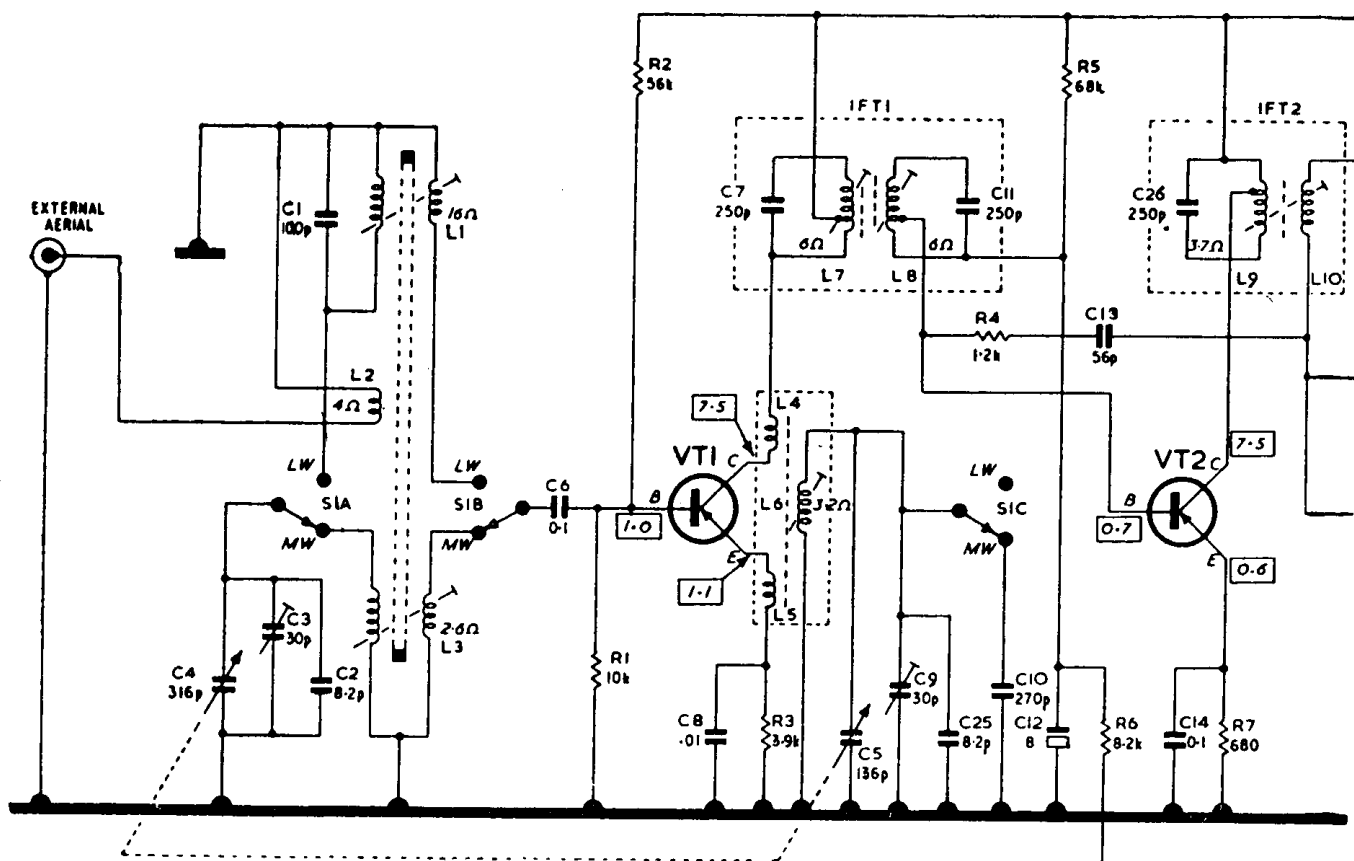
Alignment Procedure: A.F. output should not exceed 5 mW. (0.4 volts A.C.). *I.F.:* Apply a 470-kc/s. signal via 0.1 μ F. across aerial section of gang. Adjust L11/L12, L9/L10, L8, L7 and repeat in same order.

R.F.: On Model 300 holes are provided in gang mounting plate as calibration markers. Temporary wire pointer should be fitted on gang spindle.

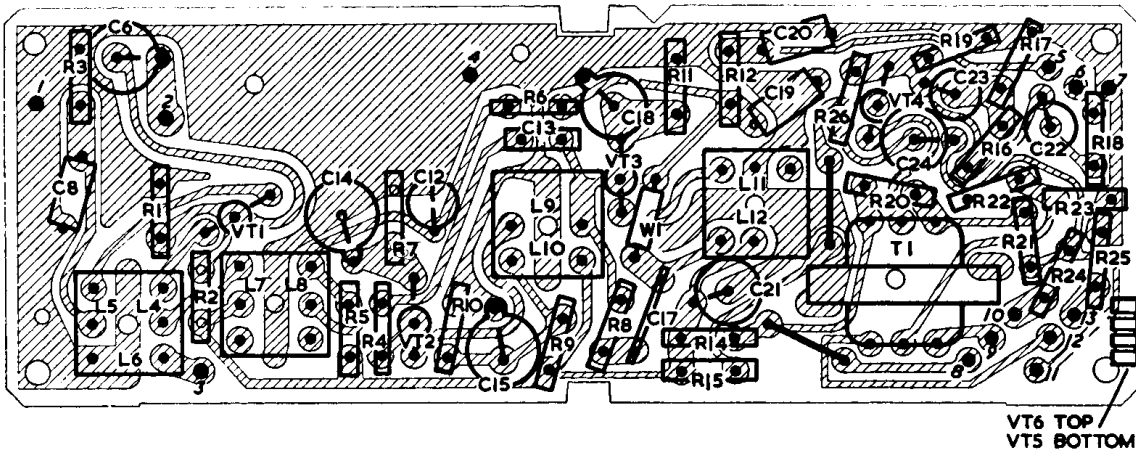
Circuits	Frequency	Cursor Position	Adjust
M.W. . . .	1300 kc/s.	M.W. trim	C9, C3
	600 kc/s.	M.W. pad	L6, L3*
L.W. . . .	215 kc/s.	L.W. trim	L1*

* Adjust by sliding coil along aerial rod.

Transistors: (VT1) OC44; (VT2) OC45; (VT3) OC45; (VT4) OC78D; (VT5, 6) matched OC78. Voltages indicated on circuit diagram measured



CIRCUIT DIAGRAM—



with 20,000-ohms/volt meter. VT5, 6 mounted in spring clip which acts as heat sink and also coated with silicone grease to improve heat transfer.

Component Notes: C10 1 per cent. C1, C13, C17, R20, R21, R22, R23 5 per cent. C2, C25 8.2 pF. $\pm \frac{1}{2}$ pF. R24, R25, 3.3 ohm $\pm \frac{1}{2}$ ohm. C12, C22, C23 6 volts. C21, C24 12 volts. Loudspeaker impedance 35 ohms (D.C. resistance 30 ohms).

Connections to printed wiring panel. 1 to ferrite-rod aerial—earthy end. 2 to switch wiper of S1B. 3 to switch wiper S1C and tuning gang. 4 to tuning gang via C2 and C25. 5 to volume control R13. 6 to volume control R13 slider. 7 to volume control R13 and on/off switch S3. 8 to on/off switch S2 and collector VT5. 9 to base of VT5. 10 to emitter VT5. 11 to collector VT6 and loudspeaker. 12 to base VT6. 13 to emitter VT6.

