

MARCONIPHONE Models C10A, T10A, T10AW

General Description : Five-valve (including rectifier), three-waveband superheterodyne receiver. Model C10A is a corner console, with an 8-in. loudspeaker, and Model T10A is a table model with a 5-in. loudspeaker. Released October 1947.

Power Supply : A.C. mains, 195–225 volts, 40–60 c/s. Consumption approximately 60 watts.

Wavebands : S.W. 16.3–51.7 m.; M.W. 192–575 m.; L.W. 850–2020 m.

Provision is made for two pre-selected stations: Station 1 between 200 and 350 m.; Station 2 between 325 and 550 m.

Intermediate Frequency : 465 kc/s.

Valves : Marconi. (V1) X61M; (V2) KTW61M; (V3) DH63M; (V4) KT61; (V5) U10. In Model T10AW, V2 is a KTW61.

Pilot Lamp : 7 volts, 0.3 amp.

Audio Output : 4 watts maximum.

External Loudspeakers : Total impedance 5 ohms.

Notes : An efficient earth should be connected to the receiver. If hum occurs, it may be due to a poor contact between the case of C28, C29 and its clip. A.F. instability can sometimes be cured by moving the lead from the anode of V4 as far as possible from the leads to VR1.

Preferred Stations : Adjustment screws are mounted near the rear edge of the chassis near to V1 in the order L15, TC6, TC5, L14 when viewed from above the chassis.

S1—Adjust L14 and then TC5 for maximum output of selected station (200–350 m.).

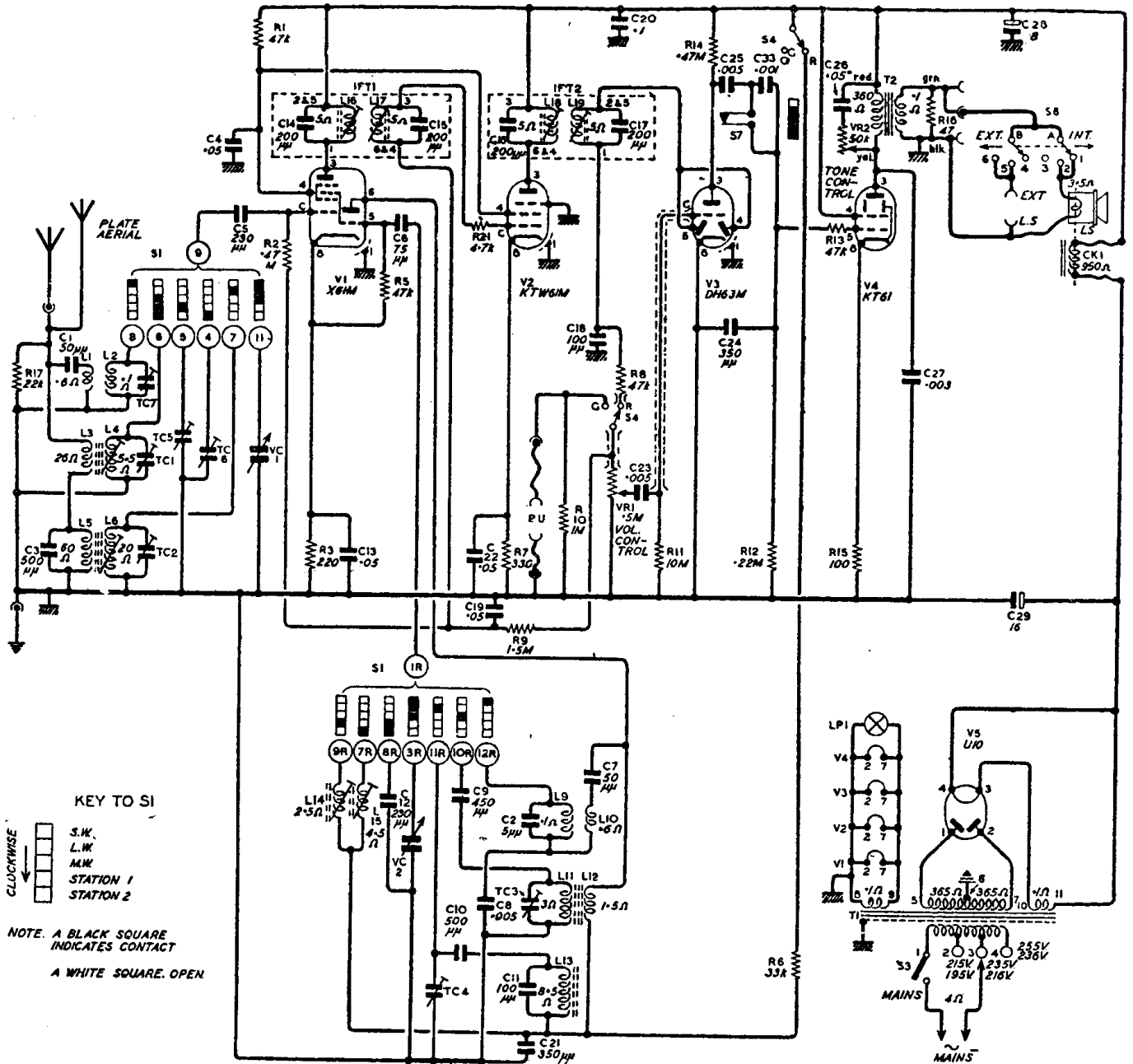
S2—Adjust L15 and then TC6 for maximum output of selected station (325–550 m.).

R.F. Alignment Summary : Check that with tuning capacitors fully meshed the trailing edge of the red tab is at $5\frac{1}{2}$ -in. on scale.

Circuit	Signal Generator	Calibration Scale	Adjust
M.W. (1)	1427 kc/s., 210 m.	$3\frac{1}{2}$ in.	TC3 and TC1
(2)	588 kc/s., 510 m.	$4\frac{11}{16}$ in.	L11 and L4
(3)	Repeat (1) and (2)	—	—
L.W. (4)	300 kc/s., 1000 m.	$1\frac{1}{8}$ in.	TC4 and TC2
(5)	162 kc/s., 1850 m.	$4\frac{13}{16}$ in.	L13 and L6
(6)	Repeat (4) and (5)	—	—
S.W. (7)	6 Mc/s., 50 m.	$5\frac{1}{32}$ in.	L9 loop and L2 loop
(8)	17.8 Mc/s., 16.85 m.	Tune signal (minimum scale position)	TC7 (rock gang)

Adjustment of S.W. loops is made by bending the loop of wire across the inside of the coil former, up or down, by means of nicked insulating tool.

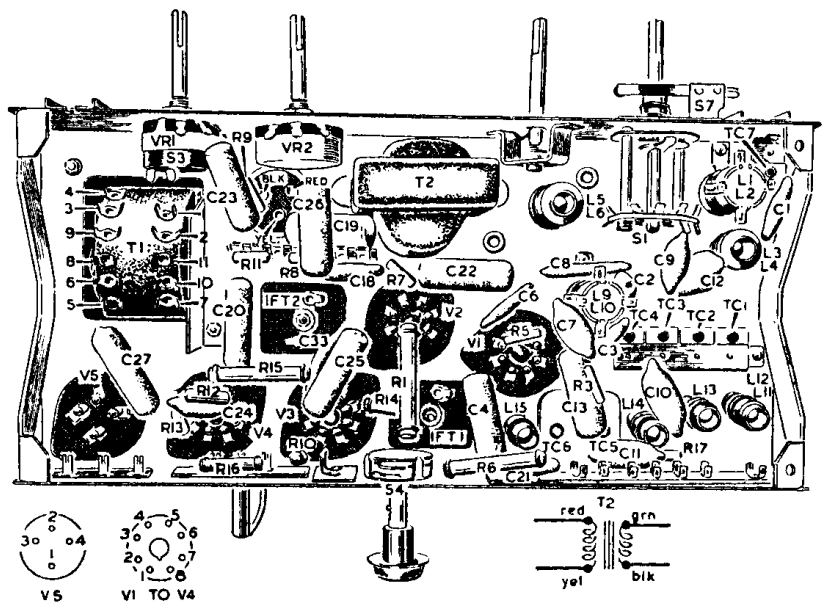
Check points : See page 560.



CIRCUIT DIAGRAM—MARCONIPHONE MODELS C10A, T10A.

UNDERCHASSIS VIEW OF MODEL T10A.

In Model C10A switch S4 is mounted on a small bracket at the front of the chassis.



CHECK POINTS

Measured with a 500 ohms/volt testmeter under no-signal conditions.

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V ₁	Anode (pin 3) 250 v., 4 mA.	Osc. (pin 6) 87 v., 4.6 mA.	Screen (pin 4) 75 v., 1.7 mA.
V ₂	Anode (pin 3) 249 v., 5.5 mA.	Screen (pin 4) 75 v., 1.3 mA.	—
V ₃	Anode (pin 3) 50 v., 0.4 mA.	—	—
V ₄	Anode (pin 3) 239 v., 40 mA.	Screen (pin 4) 253 v., 7 mA.	Cathode (pin 8) 4.6 v., 47 mA.