

MARCONIPHONE**Model T24DAB**

General Description : Four-valve, two-waveband transportable super-heterodyne receiver for operation from batteries or supply mains. Weight 9½ lb. (with batteries).

Power Supplies : A.C./D.C. mains, 195–255 volts. Consumption : D.C., 14 watts; A.C., 19 watts. H.T. 90-volt Layer-Pack battery, consumption 11 mA.; L.T. Five Alpha Leak-proof 1.5-volt cells, series connected, consumption 52 mA.

Wavebands : M.W. 187–565 m.; L.W. 1000–2000 m.

Intermediate Frequency : 365 kc/s. (Early models, 360 kc/s.)

Valves : Marconi. (V1) X17; (V2) W17; (V3) ZD17; (V4) N18.

Audio Output : 250 mW. maximum.

Loudspeaker : 5-in. diameter, permanent-magnet moving-coil type. Speech coil D.C. resistance 2.5 ohms, impedance 3 ohms at 400 c/s.

Check Points :

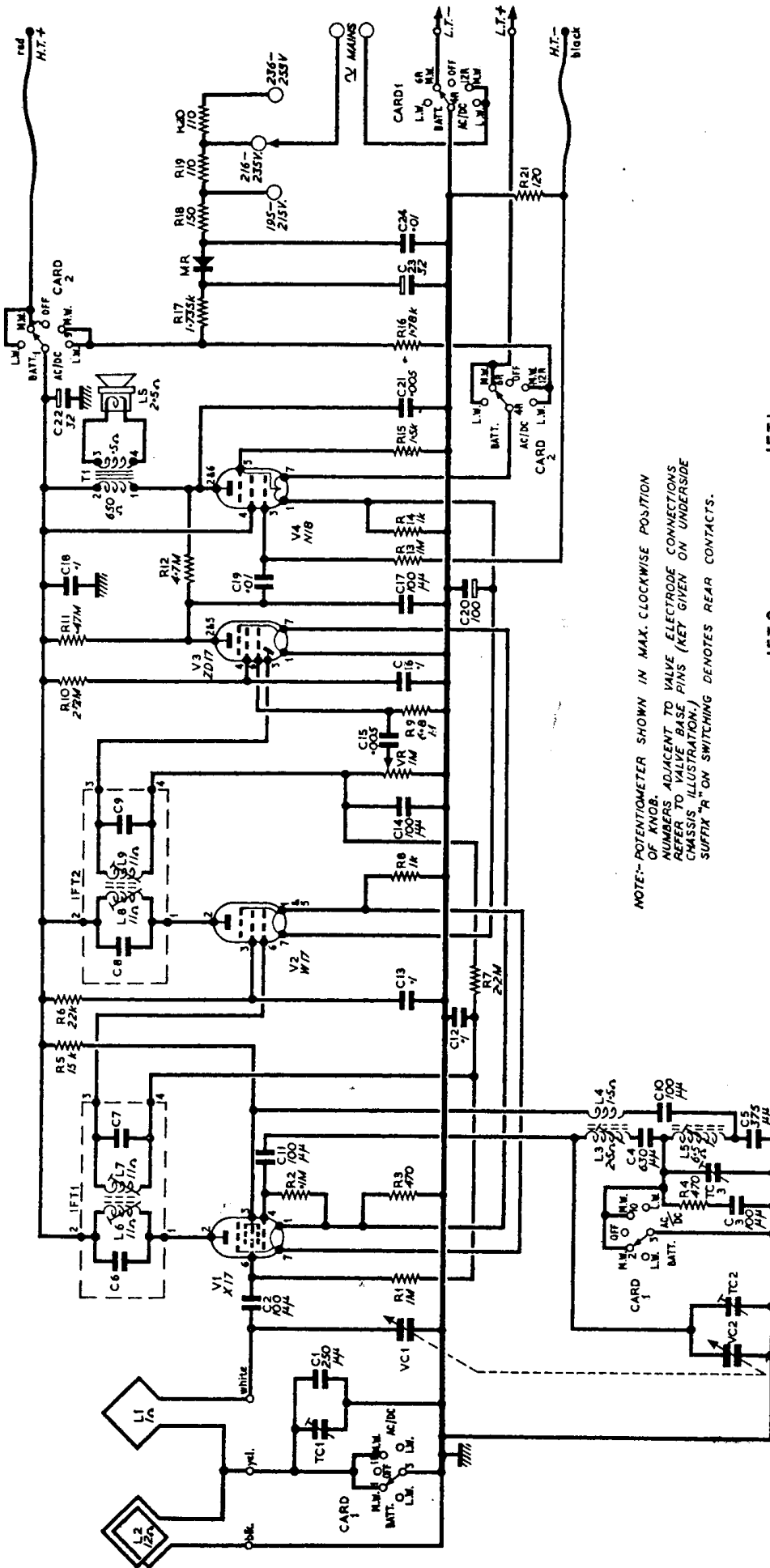
The following tables indicate approximate voltage and current readings obtained under battery operation and mains operation, with supply voltages as stated in second table. Receiver was tuned to a point of no reception on the medium waveband and volume control set to maximum in both instances.

Variations of ± 15 per cent may be anticipated between models. Meter used had a resistance of 500 ohms/volt.

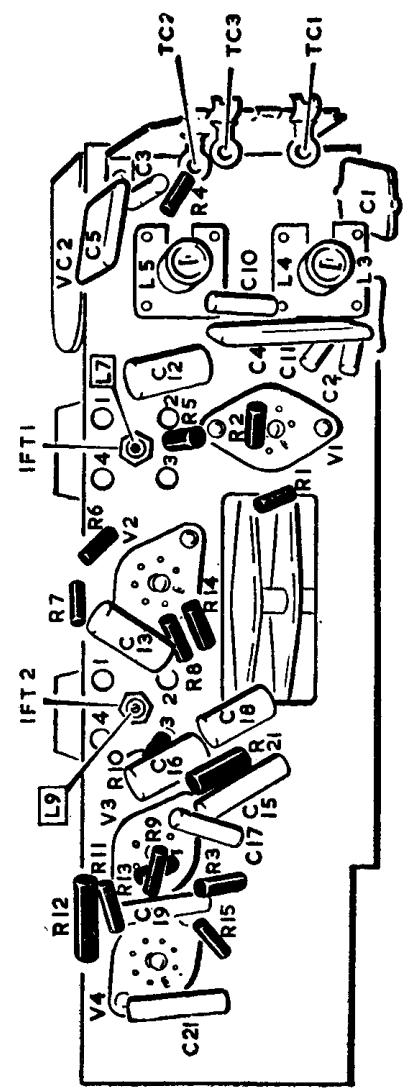
Valve	Battery Operation			Mains Operation		
	Anode Volts to Chassis	Screen Volts to Chassis	Filament (Pin 7) Volts to Chassis	Anode Volts to Chassis	Screen Volts to Chassis	Filament (Pin 7) Volts to Chassis
V1 (X17)	82	52	2.8	90	57	2.5
V2 (W17)	82	68	4.2	90	78	3.75
V3 (ZD17)	12	7	1.4	13	7	1.25
V4 (N18)	78	85	7.0	85	90	6.0

	Battery Operation		Mains Operation	
	Volts	mA.	Volts	mA.
Total H.T. .	85	11	90	15
Total L.T. .	7	52	6	47
Across R21 .	1	—	—	—
Across R17 .	—	—	108	—
Mains .	—	—	* 225 (A.C.)	82 (A.C.)

* Mains voltage-adjustment plug fitted into " 216-235 " socket.



NOTE:- POTENTIOMETER SHOWN IN MAX. CLOCKWISE POSITION OF KNOB. ADJACENT TO VALVE ELECTRODE CONNECTIONS REFER TO VALVE BASE PINS (KEY GIVEN ON UNDERSIDE CHASSIS ILLUSTRATION.) SUFFIX "R" ON SWITCHING DENOTES REAR CONTACTS.



Note : On later models the positive end of C20 is connected to Pin 7 of V4, and an additional 25 μF. (12v.) capacitor is connected between Pin 1 of V2 and chassis.