

# MARCONIPHONE - T73DAB



Appearance of the Marconiphone T73DAB.

## Resistors

R1	180kΩ	A1
R2	2.2MΩ	A2
R3	120kΩ	A2
R4	300kΩ	A2
R5	27kΩ	A2
R6	35kΩ	A2
R7	2.2MΩ	B2
R8	1MΩ	C1
R9	10MΩ	C2
R10	6.8MΩ	C2
R11	2.2MΩ	C2
R12	4.7MΩ	C2
R13	3kΩ	E3
R14	2.25kΩ	D3
R15	270Ω	E3
R16	270Ω	E3
R17	270Ω	E3
R18	270Ω	E3
R19	270Ω	E3
R20	500Ω	D3
R21	330Ω	A2
R22	1.2kΩ	A2
R23	560Ω	C2
R24	6.8MΩ	B2

## Capacitors

C1	137pF	A2
C2	387pF	B1
C3	25pF	B1
C4	100pF	A2
C5	0.01μF	A2
C6	100pF	A2
C7	100pF	A2
C8	100pF	A2
C9	25pF	B1
C10	167pF	B2
C11	342pF	B1
C12	100pF	A2
C13	100pF	B2
C14	100pF	B2
C15	220pF	B2
C16	0.01μF	C2
C17	0.01μF	B2
C18	500pF	C2
C19	0.003μF	B1
C20	32μF	B1
C21	40μF	B1

C22	0.002μF	D3
C23	0.5μF	B2
C24	0.01μF	B2
C25	100μF	C1

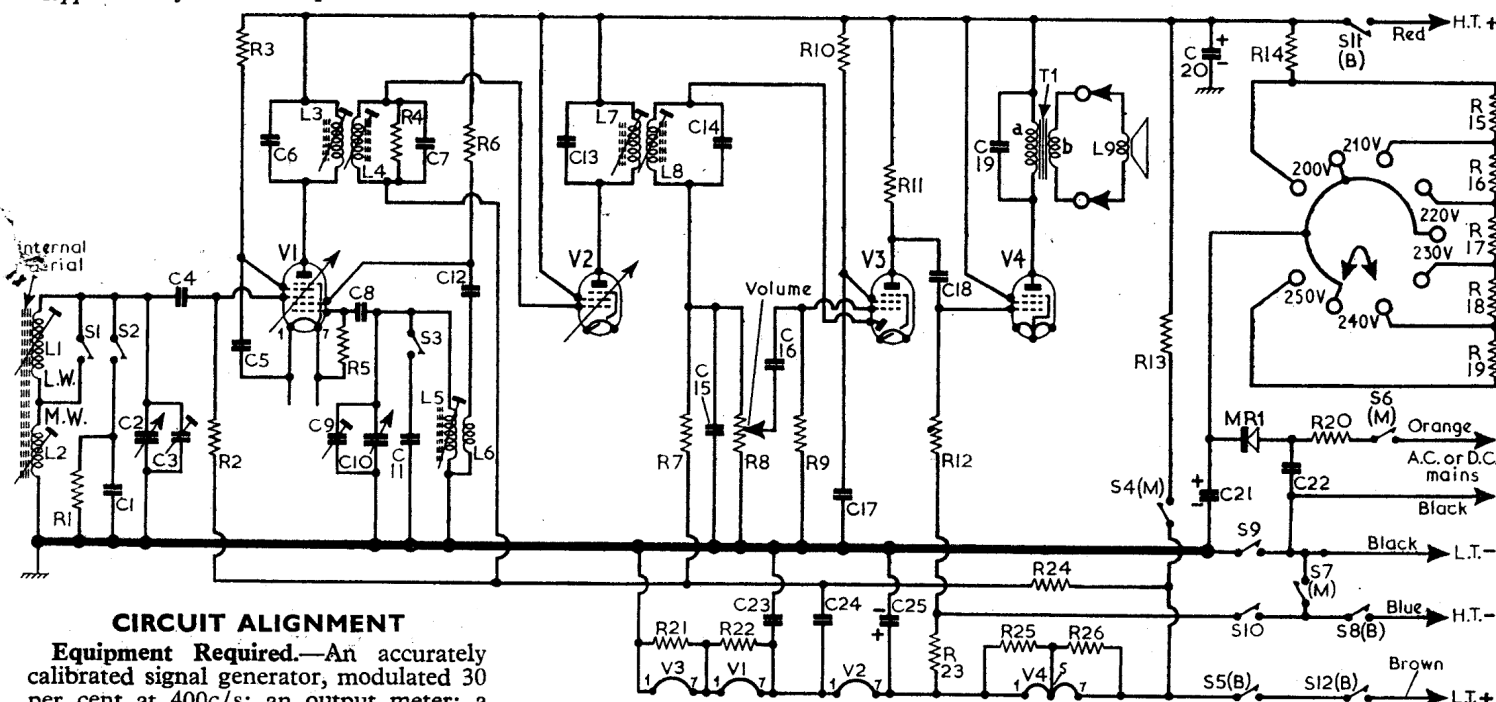
## Coils\*

L1	—	A1
L2	—	B1
L3	—	A2
L4	8.0	A2
L5	8.0	A2
L6	(total) 2.0	A2
L7	8.0	B2
L8	8.0	B2
L9	3.0	E3

## Miscellaneous\*

T1	{ a 380.0 } C1
	{ b — }
MR1	E250 C50 † D3
S1-S3	— A1
S4-S8	— D3
S9-S12	— C1

\*Approximate D.C. resistance in ohms. † Siemens.



## CIRCUIT ALIGNMENT

**Equipment Required.**—An accurately calibrated signal generator, modulated 30 per cent at 400c/s; an output meter; a 0.1μF capacitor; a length of insulated wire to form a coupling loop; and a non-metallic trimming tool.

To facilitate accurate tuning of the receiver, R.F. alignment points are indicated by dots on the appropriate tuning scale.

It is important to maintain the signal generator output as low as possible at all times during the alignment procedure to avoid A.G.C. action.

1.—Switch receiver to M.W., turn gang to minimum capacitance and set volume control to maximum. Connect output meter across T1 secondary winding, and connect signal generator, via the 0.1μF capacitor in its live lead, to V1 control grid (pin 6).

- 2.—Feed in a modulated 470kc/s signal and adjust the cores of L8 (B2), L7 (B2), L4 (A2) and L3 (A2) in that order for maximum output.
- 3.—Loosely couple the signal generator output, via the coupling loop, to the ferrite rod aerial. Tune the receiver to the 231m calibration point. Feed in a 1,300kc/s signal and adjust C9 (B1) and C3 (B1) for maximum output.
- 4.—Tune receiver to the 500m calibration point. Feed in a 600kc/s signal and adjust L5 (A1) and L2 (B1) for maximum output. Adjust L2 by sliding its adjusting ring along the ferrite rod.

- 5.—Switch receiver to L.W. and tune it to the 1,429m calibration point. Feed in a 210kc/s signal and adjust the former of L1 (A1) along the ferrite rod for maximum output.

## GENERAL NOTES

**Switches.**—S1-S3 are the waveband switches ganged in a rotary unit and shown in location reference A1. Above the switch unit a detailed diagram of the contacts is drawn as seen from the rear of an upright chassis. S1 is closed on M.W., S2 and S3 are closed on L.W.

S4-S8 are the mains/battery change-over switches ganged in a rotary unit and shown, together with a detailed diagram of the contacts, in location reference D3. Switches with suffix (M) close for mains operation and those with suffix (B) close for battery operation. S9 and S10 are the on/off switches ganged with volume control R8. S11B and S12B are the lid-operated battery switches and are shown in location reference C1.

Valve	Anode (V)	Screen (V)
V1 DK96 .. { mixer	86	70.0
V2 DF96 .. { osc. ..	33	—
V3 DAF96 ..	86	85.0
V4 DL96 ..	18	18.5
	84	86.0