

CHAMPION 844,862,864

Valve	Anode V	Screen V	Bias* V
V1 DK96 ..	85.0 Oscillator	50	—
V2 DF96 ..	35.0	—	—
V3 DAF96 ..	85.0	65	—
V4 DL96 ..	35.0	15	—
	82.5	85	-5.3

*Measured at control grid.

Capacitors

C1	—	B2
C2	—	B1
C3	—	B1
C4	0.01μF	C1
C5	0.05μF	B1
C6	—	B1
C7	—	B1
C8	100pF	C2
C9	—	B1
C10	—	B1
C11	50pF	B2
C12	—	B2
C13	550pF	C1
C14	180pF	C2
C15	0.01μF	C1
C16	0.01μF	A1
C17	—	A1
C18	—	A1
C19	0.002μF	A2

C20	0.005μF	A1
C21	100pF	A2
C22	0.002μF	A2
C23	4μF	A2
C24	0.002μF	A2

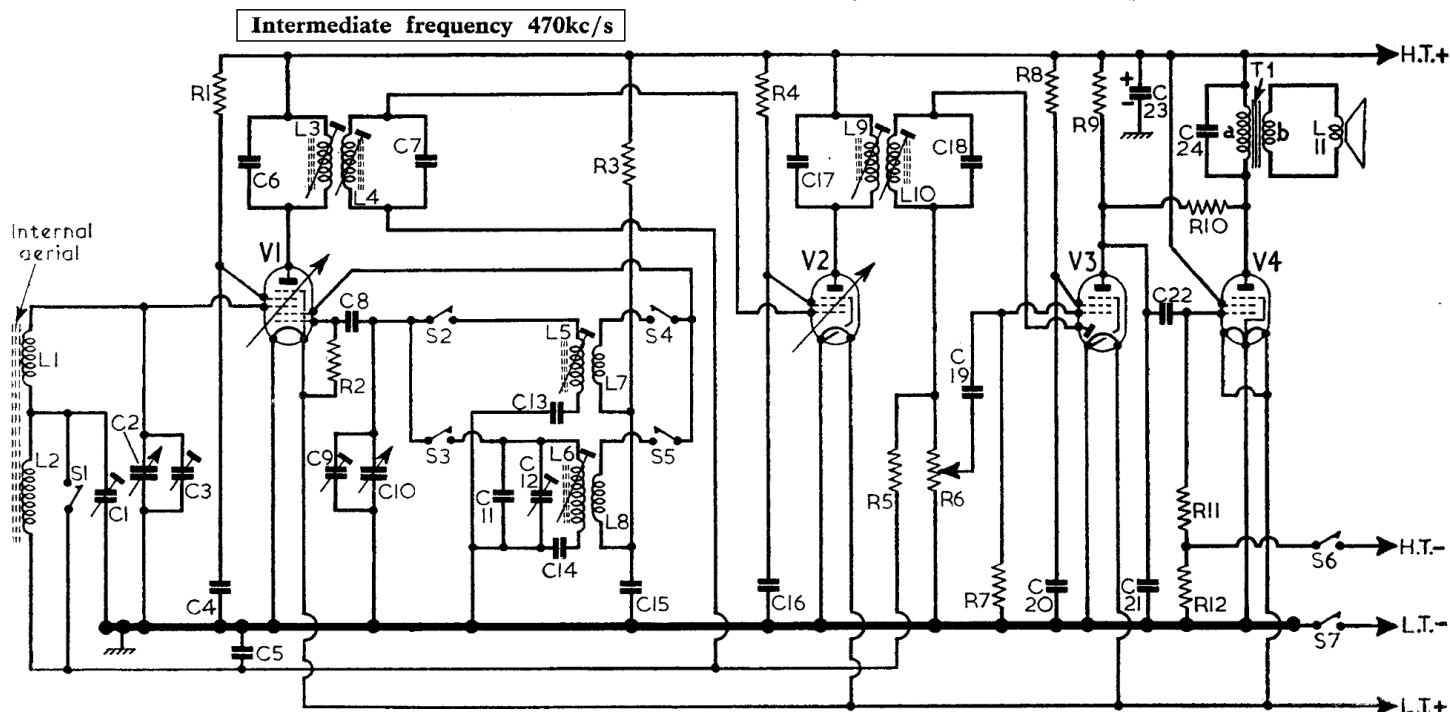
Resistors

R1	120kΩ	C2
R2	33kΩ	C1
R3	33kΩ	C2
R4	39kΩ	B1
R5	3.3MΩ	B2
R6	1MΩ	B2
R7	10MΩ	A2
R8	4.7MΩ	A1
R9	1MΩ	A2
R10	10MΩ	A2
R11	2.2MΩ	A2
R12	560Ω	B2

Other Components*

L1	—	B1
L2	6.5	A1
L3	11.0	B1
L4	11.5	B1
L5	2.25	C1
L6	6.5	C2
L7	0.75	C1
L8	1.75	C2
L9	11.0	A1
L10	11.0	A1
L11	2.7	—
T1 { a	375	—
b	—	—
S1-S5	—	C2
S6/S7	—	E2

*Approximate D.C. resistance in ohms.



CIRCUIT ALIGNMENT

- 1.—Remove chassis from carrying case as detailed under "Dismantling." Switch receiver to M.W. and turn gang to minimum capacitance.
- 2.—Connect signal generator via a 0.1μF capacitor between V1 grid and frame of tuning gang. Connect output meter either across winding b of T1 or via a 0.1μF capacitor from V4 anode to chassis. Feed in a 470kc/s signal and adjust cores of L10 (F3), L9 (B1), L4 (E3), L3 (B1) for maximum output on meter.
- 3.—Connect signal generator, via a loop of wire, loosely to ferrite rod aerial. Set tuning gang to 500m, feed in a 600kc/s signal and adjust core of L5 for maximum output on meter.
- 4.—Turn tuning gang to 200m and feed in a 1,500kc/s signal. Adjust C3 and C9 (located on tuning gang) for maximum output on meter.
- 5.—Repeat operations 2-4 for optimum results.
- 6.—Switch receiver to L.W., set tuning

gang to 2,000m, feed in a 150kc/s signal and adjust core of L6 for maximum output on meter.

- 7.—Turn tuning gang to 1,000m, feed in a 300kc/s signal and adjust C1 and C12 (B2) for maximum output.
- 8.—Repeat operations 6 and 7 for optimum output.

Switches.—S1-S5 are the waveband switches, ganged in a single rotary unit (location reference C2) and details of their connections are indicated in underside view of the printed circuit panel. They operate as follows: S1, S2 and S4 close on M.W., and S3, S5 close on L.W. S6 and S7 are the battery on-off switches, ganged to the volume control, and are shown in location B2.

Batteries.—Those recommended by the makers are: L.T., Ever Ready AD35 rated at 1.5V; H.T., Ever Ready B126 rated at 90V. A standard 3-pin plug is used for H.T. battery connections, and a standard 2-pin plug is used for L.T. battery connections.