

CHAMPION 844,862,864

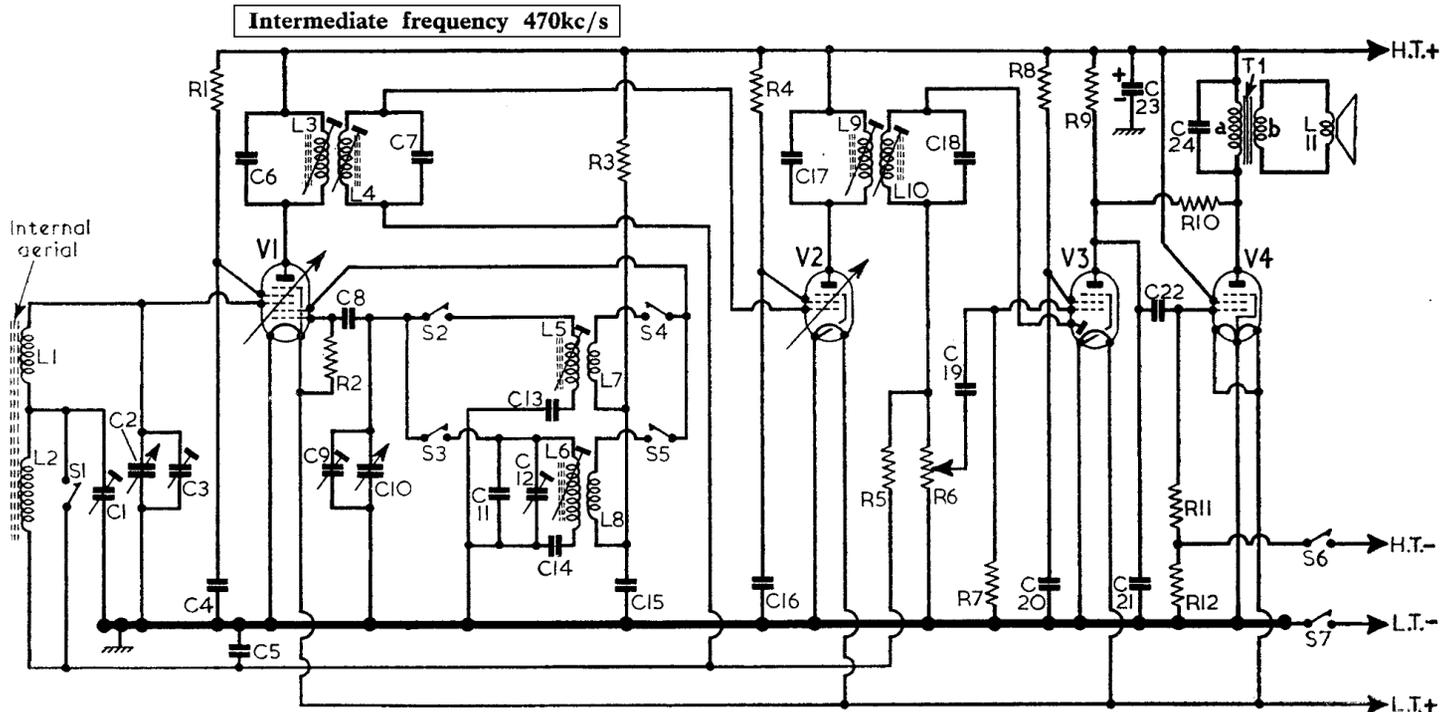
Valve	Anode V	Screen V	Bias* V
V1 DK96 ..	85.0 Oscillator	50	—
V2 DF96 ..	35.0	—	—
V3 DAF96 ..	85.0	65	—
V4 DL96 ..	35.0	15	—
	82.5	85	-5.3

*Measured at control grid.

Capacitors		Resistors	
C1	—	R1	120kΩ
C2	—	R2	33kΩ
C3	—	R3	33kΩ
C4	0.01μF	R4	39kΩ
C5	0.05μF	R5	3.3MΩ
C6	—	R6	1MΩ
C7	—	R7	10MΩ
C8	100pF	R8	4.7MΩ
C9	—	R9	1MΩ
C10	—	R10	10MΩ
C11	50pF	R11	2.2MΩ
C12	—	R12	560Ω
C13	550pF		
C14	180pF		
C15	0.01μF		
C16	0.01μF		
C17	—		
C18	—		
C19	0.002μF		
B2	—	C20	0.005μF
B1	—	C21	100pF
B1	—	C22	0.002μF
C1	—	C23	4μF
B1	—	C24	0.002μF

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.