

EVER READY

SKY CASKET

General Description: Four-valve, two-waveband portable receiver with ferrite-rod aerial. A similar circuit is used in the **BEREC "Harlequin"**.

Power Supplies: Combined H.T. (90 volts) and L.T. (1.5 volts), Ever Ready "Batrymax" Type B141. Consumption, H.T. 10.2 mA., L.T. 125 mA.

Wavebands: M.W. 192-550 m.; L.W. 1040-1765 m.

Valve Analysis: Measured on 100-volt range of 1000-ohms/volt meter except where otherwise stated, with volume control at maximum and receiver tuned to the L.F. end of M.W. band.

Valve	Anode, volts	Anode	Screen, volts	Screen	Miscellaneous
V1 DK96	84	0.38 mA.	68 *	0.1 mA.	Osc. 32.5 v. 1.4 mA.
V2 DF96	84	1.45 mA.	67 *	0.52 mA.	
V3 DAF96	42 *	40 μA.	28 *	10 μA.	
V4 DL96	82	5.3 mA.	84	1.00 mA.	Grid-6 v.

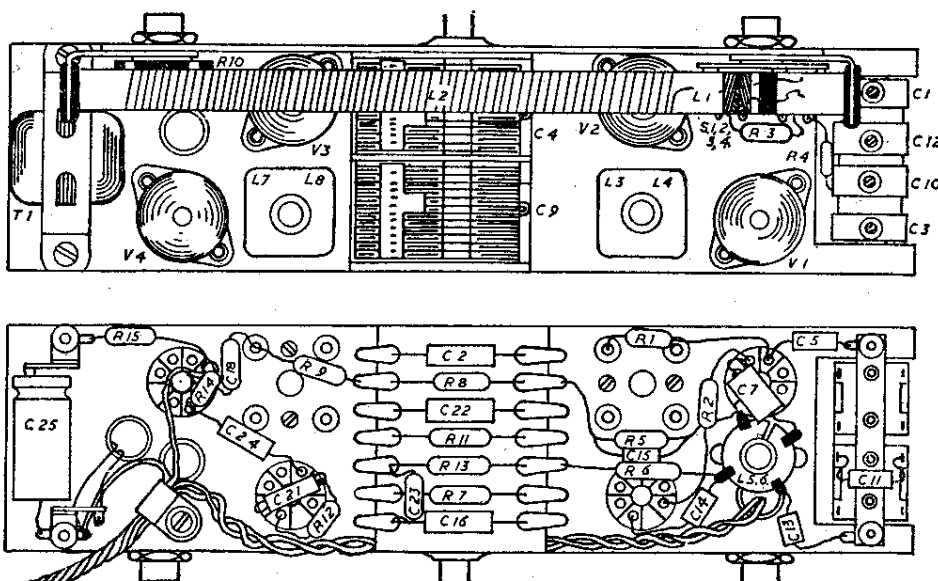
* Measured on electronic testmeter, input resistance > 1000M.

Alignment Procedure: For R.F. adjustments, M.W. circuits should be adjusted before L.W.

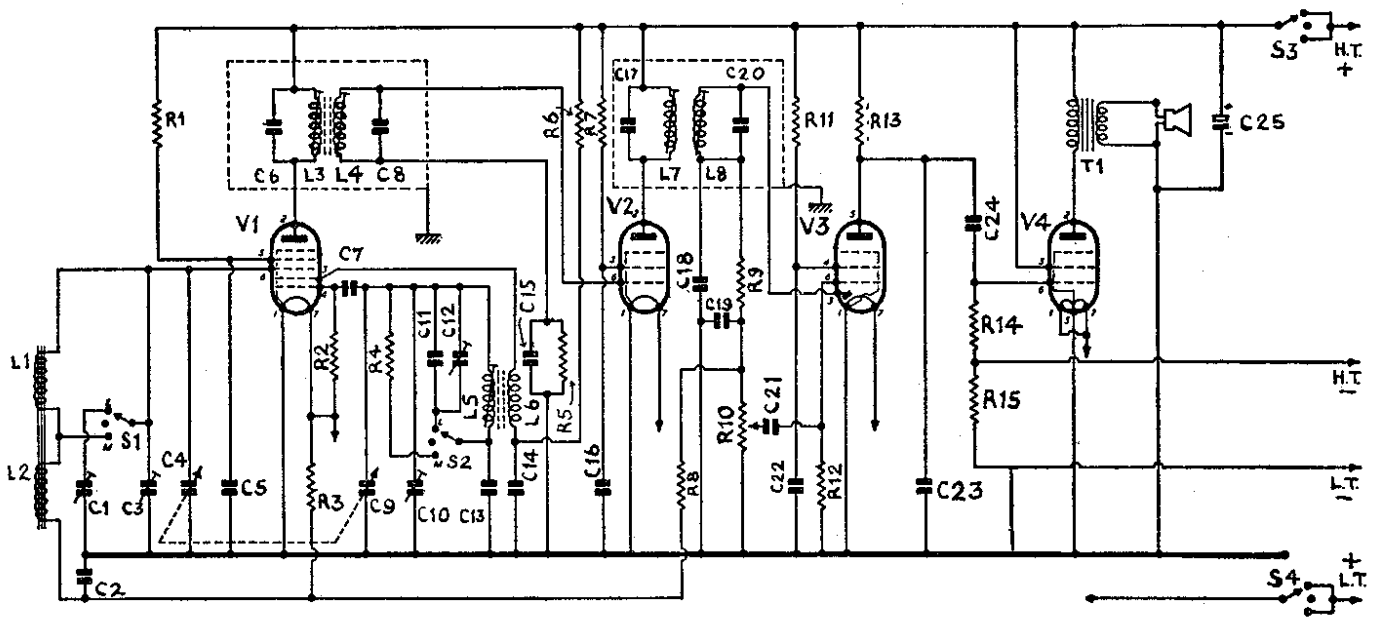
I.F.: Inject a 470-kc/s. signal to signal grid of V1 (earth lead connected to chassis), and adjust L8, L7, L4 and L3 in that order. Repeat as necessary.

R.F.: Check that the indicator line is horizontal and in line with the un-numbered marks on the scale when the tuning gang is fully closed.

M.W.: Tune to 500 m., inject a 600-kc/s. signal via coupling loop and



LAY-OUT DIAGRAMS—EVER READY "SKY CASKET"



CIRCUIT DIAGRAM—EVER READY " SKY CASKET "

Note: A lid-operated " warning " switch is fitted to the " Sky Casket " but not to the " Harlequin ". This connects the " hot " end of the secondary of the output transformer to the grid of V3.

Capacitors.		Resistors.	
C1	200 pF.	R1	150k
C2	0.04	R2	27k (10%)
C3	60 pF.	R3	2.2M
C5	0.04	R4	47k
C6	80 pF. (2%)	R5	1M
C7	80 pF. (10%)	R6	33k
C8	80 pF. (2%)	R7	39k (10%)
C10	60 pF.	R8	2.2M
C11	300 pF. (10%)	R9	47k
C12	200 pF.	R10	500k
C13	500 pF.	R11	5.6M (10%)
C14	0.04	R12	10M
C15	0.01	R13	1.2M (10%)
C16	0.04	R14	2.2M
C17	80 pF. (2%)	R15	560 (10%)
C18	100 pF.		
C19	100 pF.		
C20	80 pF. (2%)		
C21	0.01		
C22	0.04		
C23	100 pF.		
C24	0.01		
C25	8 (El.)		

adjust core of L5, L6. Tune to 214-m. mark (on L.F. side of 200 m.), inject a 1400-kc/s. signal, and adjust C10 and C3. Repeat cycle of operations.

L.W.: Tune to unnumbered mark (line dividing two scales) on the H.F. side of 1050 m., inject a 290-kc/s. signal, and adjust C12. Tune to 1400 m. inject a 214-kc/s. signal and adjust C1. Repeat as necessary.