

EVER READY**SKY LORD**

General Description: Four-valve, two-waveband, transportable table receiver for battery operation.

Power Supplies: H.T. 90 volts; L.T. 1.5 volts. Combined Ever Ready Type B136. Consumption, H.T. 10 mA.; L.T. 125 mA.

Wavebands: M.W. 194–550 m.; L.W. 920–2000 m.

Valve Analysis: Measured on 100-volt range of 1000-ohms/volt meter except where indicated, when an electronic meter was used.

Valve	Anode, volts	Anode, mA.	Screen, volts	Screen, mA.	Osc., volts	Osc., mA.
V ₁ DK96 .	84.8	0.5	68.8 *	0.12	41.4 *	1.7
V ₂ DF96 .	84.8	0.95	55.3 *	0.28	—	—
V ₃ DAF96 .	40.7 *	40 μA.	27.5 *	10 μA.	—	—
V ₄ DL96 .	82.3	5.3	84.8	1.1 mA.	—	—

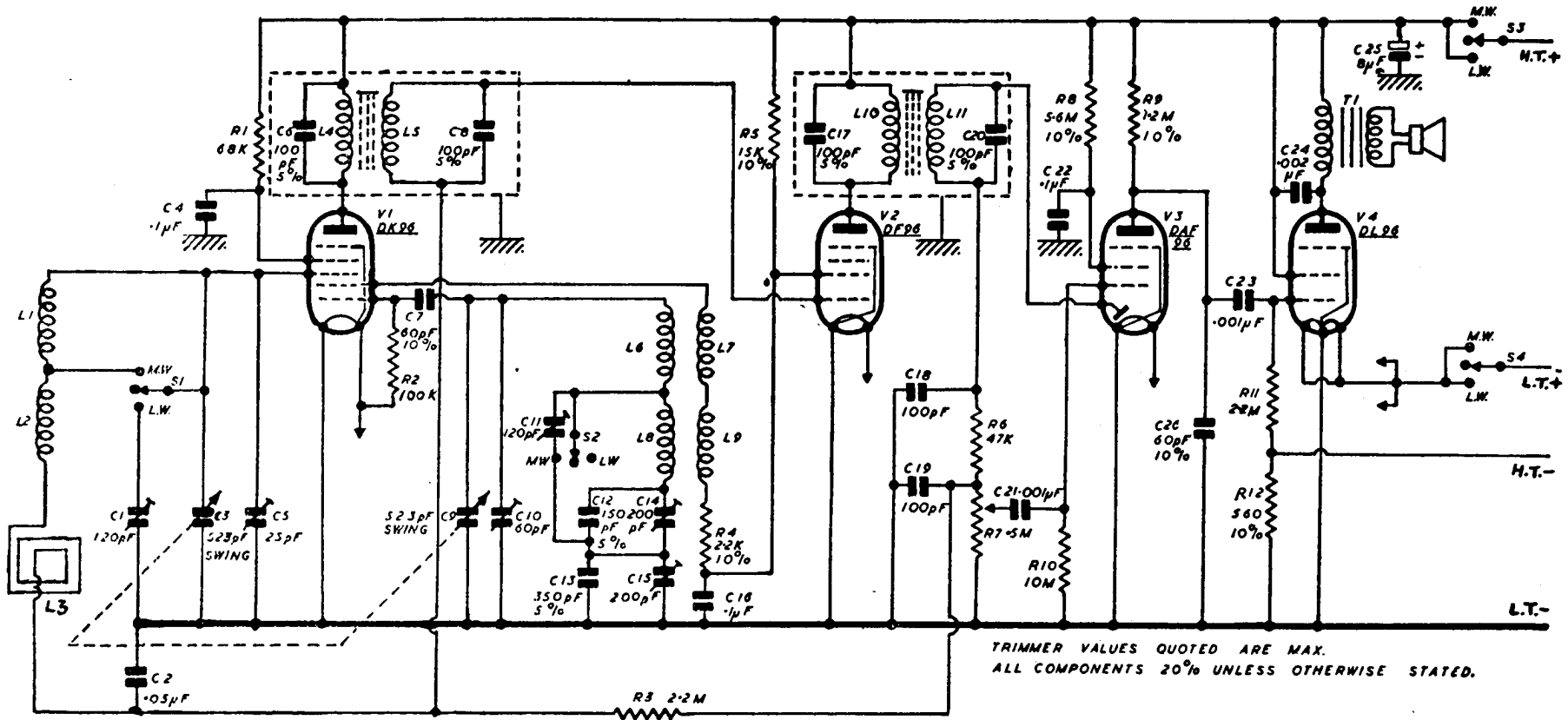
* Electronic testmeter (input resistance exceeding 100M).

Alignment Summary: I.F.: Inject a 470-kc/s. signal to signal grid of V₁ and chassis. Adjust cores of L₁₁, L₁₀, L₅ and L₄ for maximum output. If seriously detuned note that correct peak is the first reached as the core is screwed in. Underside cores may be reached through holes in cabinet base. Repeat adjustments.

R.F.: Circuits must be adjusted with chassis in cabinet and battery in normal position. M.W. band must be aligned first. Check that pointer coincides with 550 m. when the edges of the rotor and stator vanes of the tuning gang are flush. Inject signals via suitable loop capable of producing audible note in receiver when at least 12 in. distant.

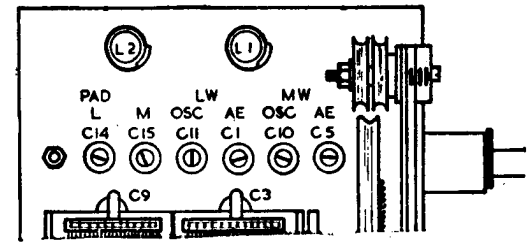
M.W.: Inject a 1400-kc/s. signal, set gang to unnumbered calibration mark between the 200- and 225-m. marks. Adjust C₁₀ and then C₅ for maximum output. Inject a 600-kc/s. signal, set to 500-m. mark. Adjust C₁₅ and then L₂ for maximum output. Repeat sequence of operations until no further improvement can be obtained.

L.W.: Inject a 300-kc/s. signal, set to 1000 m. and adjust C₁₁, then C₁ for maximum output. Inject a 176.5-kc/s. signal, set to 1700 m., adjust C₁₄ and then L₁ for maximum output. Repeat sequence of operations until no further improvement can be obtained.



CIRCUIT AND TRIMMER LAY-OUT DIAGRAMS—EVER READY "SKY LORD"

Inductors.					
L3	M.W. aerial	1.8 ohms	L8	L.W. Osc. Grid	6.5 ohms
L2	M.W. loading	2.7 ohms	L7	M.W. Osc. Anode	3.1 ohms
L1	L.W. loading	11.2 ohms	L9	L.W. Osc. Anode	6.0 ohms
L4	1st I.F.T. (pri.)	9.7 ohms	L10	2nd I.F.T. (pri.)	9.7 ohms
L5	1st I.F.T. (sec.)	9.7 ohms	L11	2nd I.F.T. (sec.)	9.7 ohms
L6	M.W. Osc. Grid	3.6 ohms			



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