

## EVER READY "ALL DRY" PORTABLE Model N

**General Description :** Four-valve, two-waveband, portable super-heterodyne receiver for dry battery operation.

**Power Supplies :** Ever Ready "Batrymax" B.107 H.T. battery, 90 volts. Ever Ready "Alldry" 14 L.T. battery, 1.5 volts.

**Wavebands :** M.W. 192-535 m. (1563-560 kc/s.); L.W. 950-1850 m. (315-162 kc/s.).

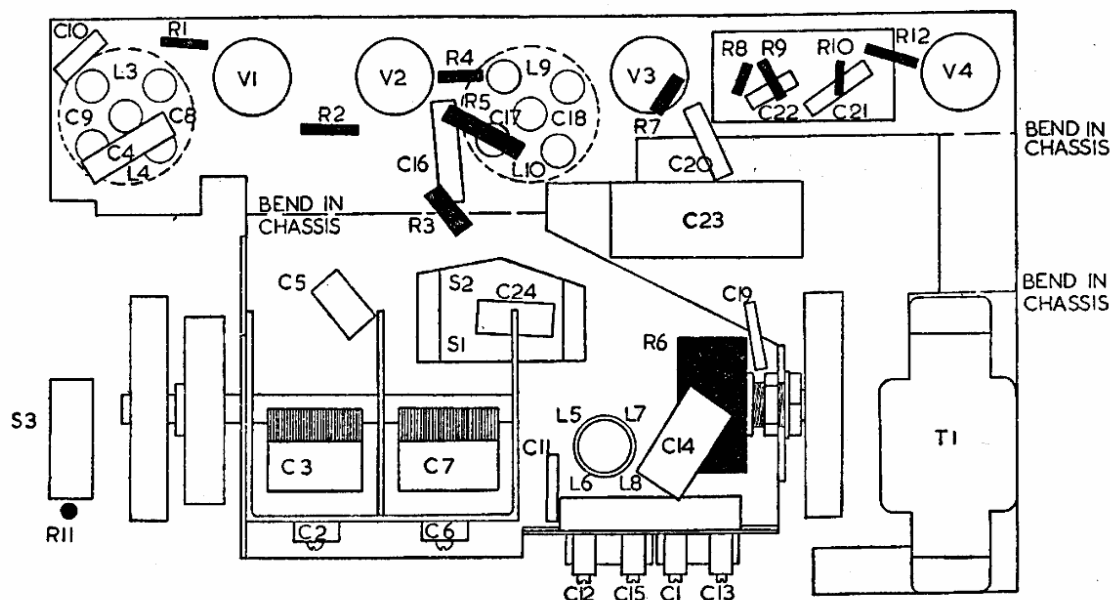
**Intermediate Frequency :** 470 kc/s.

**Valves :** (V<sub>1</sub>) DK91; (V<sub>2</sub>) DF91; (V<sub>3</sub>) DAF91; (V<sub>4</sub>) DL92.

**Valve Analysis :** All voltages were taken on the 100-volt range of a multi-range instrument having a sensitivity of 1000 ohms/volt, except where otherwise stated. Volume control set to maximum under no-signal conditions.

Value	V <sub>a</sub>	V <sub>s</sub>	I <sub>a</sub>	I <sub>s</sub>	V <sub>g</sub>
V <sub>1</sub> DK91	80	40	0.5 mA.	1.5 mA.	—
V <sub>2</sub> DF91	80	47	2.3 mA.	1.0 mA.	—
V <sub>3</sub> DAF91	24 *	17.5 *	<60 μA.	<15 μA.	—
V <sub>4</sub> DL92	80	80	5.5 mA.	1.6 mA.	-10

\* Absolute values measured on electronic voltmeter (input resistance exceeding 1000 megohms).



### Capacitors.

C1	120 pF. max.
C2	35 pF. max.
C3	528 pF. Swing
C4	200 pF. (150 v.)
C5	100 pF. (350 v.)
C6	35 pF. max.
C7	528 pF. Swing
C8	100 pF. (5%) (350 v.)
C9	100 pF. (5%) (350 v.)
C10	0.01 (150 v.)
C11	450 pF. (5%) (350 v.)
C12	200 pF. max.

C13	120 pF. max.
C14	50 pF.
C15	200 pF. max.
C16	0.1 (150 v.)
C17	100 pF. (5%) (350 v.)
C18	100 pF. (5%) (350 v.)
C19	100 pF. (350 v.)
C20	0.01 (150 v.)
C21	0.01 (150 v.)
C22	0.01 (150 v.)
C23	8 (150 v.)
C24	50 pF. (350 v.)

### Resistors.

R1	2.2M
R2	100k
R3	820 (10%)
R4	10k (10%)
R5	2.2M
R6	500k
R7	4.7M
R8	1.5M
R9	6.8M
R10	4.7M
R11	820 (10%)
R12	2.2M

### D.C. Resistances (ohms.)

L1	3.5
L2	14
L3	9
L4	9
L5	2
L6	5.9
L9	9
L10	9
L7	8.3
L8	