

**VIDOR****Model CN.359**

**General Description :** Six-valve (including rectifier and tuning indicator), four-waveband superheterodyne receiver. Export model CN363 employs a similar chassis. Released 1947.

**Power Supplies :** A.C. mains, 100–120 volts; 200–250 volts.

**Wavebands :** M.W. 200–550 m.; L.W. 1000–2000 m.; S.W.1 50–180 m.; S.W.2 14–50 m.

**Intermediate Frequency :** 456 kc/s.

**Valves :** (V1) ECH35; (V2) EF39; (V3) EBC33; (V4) EL33; (V5) EM34; (V6) 5Z4G.

**Alignment Procedure :** I.F. transformer cores are sealed during manufacture, and normally need no further adjustment. Where necessary the seals may be released by melting the wax.

**I.F. :** Short-circuit rear (osc.) section of gang capacitor. Connect signal generator to grid (top cap) of V1 via 100-pF. capacitor. Adjust cores for maximum output at 456 kc/s., reducing signal as sensitivity increases.

**R.F. :** Check that with gang capacitor fully meshed, pointer coincides with calibration mark immediately to the left of the 2000-m. mark.

**S.W.2 :** Connect signal generator to A and E sockets. Set pointer to 14 m., inject 21.4-Mc/s. signal and adjust C19 and C1 for maximum output, reducing signal as sensitivity increases. Set pointer to 50 m., inject 6-Mc/s. signal and adjust L5 and L1. Repeat above adjustments until there is no further "pulling". Seal trimmers with soft wax. Cores are spring loaded and do not require sealing.

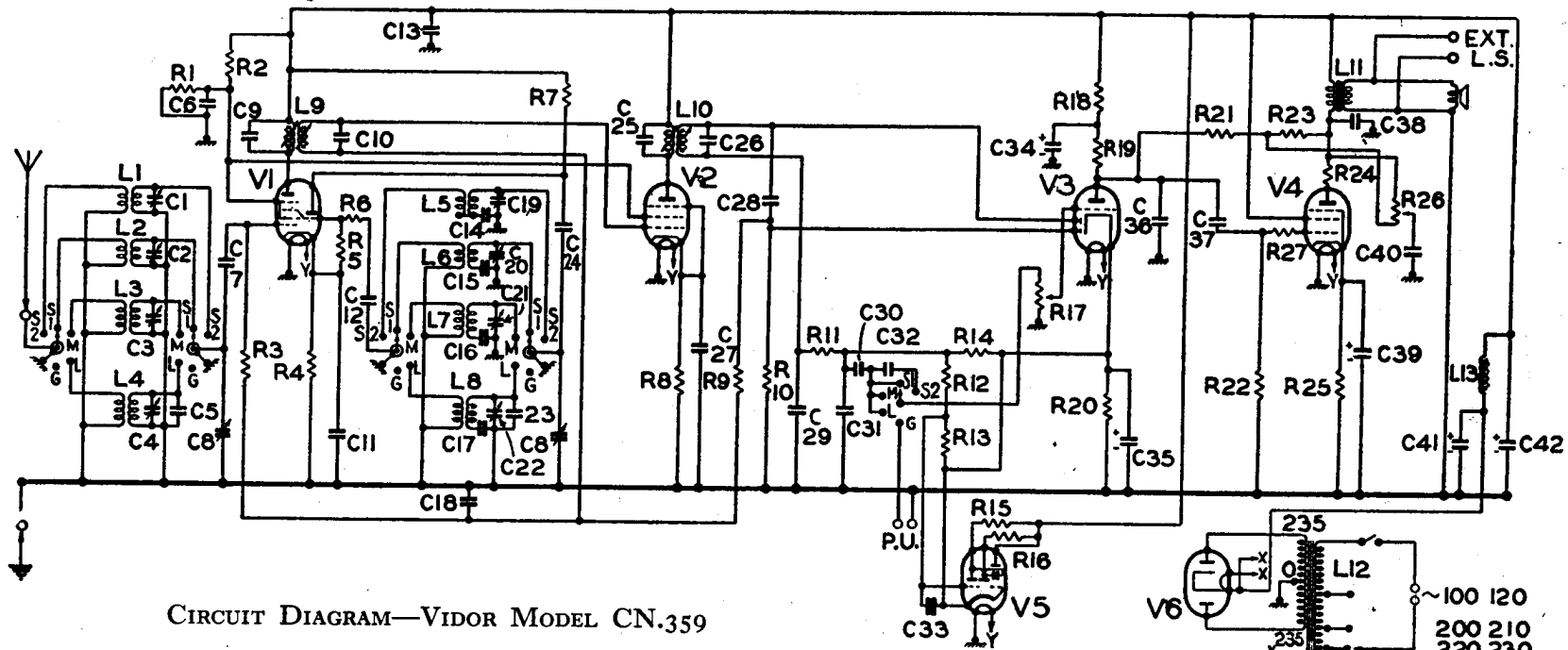
**S.W.1 :** As above, but adjust C20 and C2 at 50 m. (6-Mc/s.) and L6 and L2 at 180 m. (1666 kc/s.).

**M.W. :** As above but adjust C21 and C3 at 200 m. (1500 kc/s.) and L7 and L3 at 550 m. (545.5 kc/s.).

**L.W. :** As above, but adjust C22 and C4 at 1000 m. (300 kc/s.) and L8 and L4 at 2000 m. (150 kc/s.).

**Voltage Check Points :** Measured on 1000-volt range of Avo Model 7. (Bias on 100-volt range.) Total H.T. consumption 57 mA.

V1	Anode (pin 3) 242 v., 2 mA.	Screen (pin 4) 94 v., 1.6 mA.	Osc. anode (pin 6) 105 v., 4.2 mA.	Cathode (pin 8) 2 v.
V2	Anode (pin 3) 242 v., 5.7 mA.	Screen (pin 4) 94 v., 1.8 mA.	—	—
V3	Anode (pin 3) 123 v., 2.6 mA.	Cathode (pin 8) 2.6 v.	—	—
V4	Anode (pin 3) 230 v., 32 mA.	Screen (pin 4) 242 v., 4 mA.	Cathode (pin 8) 5.3 v.	—
V5	Anodes (pin 3) 47 v., (pin 6) 30 v.	—	—	—



CIRCUIT DIAGRAM—VIDOR MODEL CN.359

Capacitors.

C1	4-40 pF.
C2	4-40 pF.
C3	4-40 pF.
C4	40-80 pF.
C5	47 pF.
C6	0.1
C7	100 pF.
C8	532 pF. Gang
C9	150 pF.
C10	150 pF.
C11	0.1
C12	100 pF.
C13	0.1
C14	0.005
C15	1480 pF.
C16	645 pF.
C17	250 pF.

C18	0.1
C19	3-30 pF.
C20	3-30 pF.
C21	4-40 pF.
C22	40-80 pF.
C23	100 pF.
C24	100 pF.
C25	150 pF.
C26	300 pF.
C27	0.1
C28	100 pF.
C29	100 pF.
C30	0.01
C31	100 pF.
C32	0.001
C33	0.01
C34	4 (350 v.)

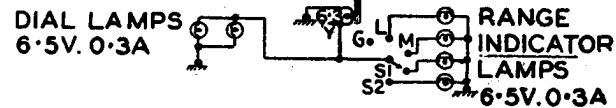
C35	50 (12 v.)
C36	500 pF.
C37	0.1
C38	0.002
C39	50 (12 v.)
C40	0.05
C41	16 (350 v.)
C42	24 (350 v.)

Resistors.

R1	100k	1/2 W.	10%
R2	33k	1 W.	10%
R3	470k	1/2 W.	20%
R4	220	1/2 W.	10%
R5	47k	1/2 W.	20%
R6	100	1/2 W.	20%
R7	33k	1 W.	10%

R8	330	1/2 W.	10%
R9	470k	1/2 W.	20%
R10	1M	1/2 W.	20%
R11	47k	1/2 W.	20%
R12	3.3M	1/2 W.	20%
R13	2.2M	1/2 W.	20%
R14	220k	1/2 W.	20%
R15	1M	1/2 W.	20%
R16	1M	1/2 W.	20%
R17	1M	Pot.	

R18	22k	1/2 W.	20%
R19	47k	1/2 W.	20%
R20	680	1/2 W.	10%
R21	100k	1/2 W.	20%
R22	100k	1/2 W.	20%
R23	100k	1/2 W.	20%
R24	100	1/2 W.	20%
R25	150	1/2 W.	10%
R26	50k	Pot.	
R27	47k	1/2 W.	20%



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