VIDOR Model CN.385

General Description : Five-valve (including rectifier), four-waveband universal superheterodyne receiver. Released 1949.

Power Supply : A.C./D.C. mains, 110 and 200–250 volts.

Wavebands : M.W. 200–550 m.; L.W. 1000–2000 m.

Intermediate Frequency : 456 kc/s.

Valves : (V1) CCH_{35}; (V2) EF_{39}; (V3) EBC_{33}; (V4) CL_{33}; (V5) CY_{31}.

Alignment Procedure : *Warning*—chassis may be live.

Connect signal generator to grid (top cap) of V1 and E socket, ensuring that uninsulated screened lead (if any) does not touch chassis. Short-circuit rear (osc.) section of gang capacitor. Adjust cores of I.F. transformers for maximum output at 456 kc/s., reducing signal as sensitivity increases. Seal cores with soft wax.

R.F. : With gang fully meshed, pointer should coincide with the calibration marks to the left of 2000-m. and 32-m. marks. Connect signal generator to A and E sockets of receiver. Adjust as follows :

Waveband	*Alignment Points*	*Osc.*	*Aerial*
S.W.2 . . .	14 m. (21·42 Mc/s.)	C18	C1
	32 m. (9·37 Mc/s.)	L5	L1
S.W.1 . . .	32 m. (9·37 Mc/s.)	C19	C2
	100 m. (3 Mc/s.)	L6	L2
M.W. . . .	200 m. (1500 kc/s.)	C20	C3
	550 m. (545·5 kc/s.)	L7	L3
L.W. . . .	1000 m. (300 kc/s.)	C21	C4
	2000 m. (150 kc/s.)	L8	L4

Reduce signal as sensitivity increases. Repeat adjustments until there is no further " pulling ". Seal trimming capacitors with soft wax.

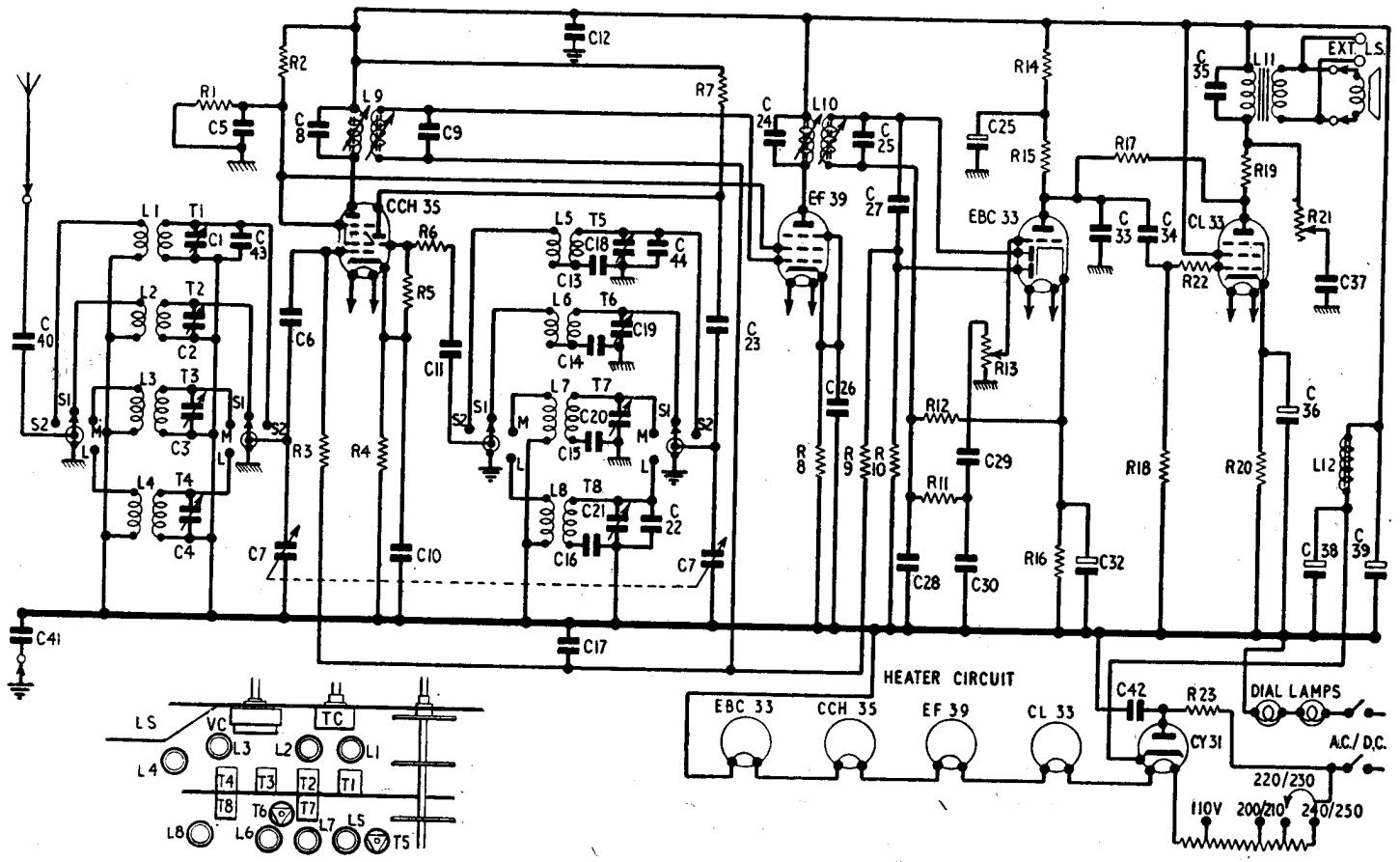
Voltage Check Points : Measurements taken with Avo Model 7. Receiver connected to A.C. mains, 230 volts.

V1	Anode (pin 3) 210 v.	Screen (pin 4) 70 v.	Cathode (pin 8) 1·4 v.	Heater 7 v. A.C.
V2	Anode (pin 3) 210 v.	Screen (pin 4) 70 v.	Cathode (pin 8) 1·6 v.	Heater 6·3 v. A.C.
V3	Anode (pin 3) 120 v.	Cathode (pin 8) 2·5 v.	Heater 6·3 v. A.C.	—
V4	Anode (pin 3) 185 v.	Screen (pin 4) 210 v.	Cathode (pin 8), 7·5 v.	Heater 33 v. A.C.
V5	Anode (pin 5) 215 v. A.C.	Heater 20 v. A.C.	—	—

Model CN.386 : This model is basically similar to the CN.385 described above except that the L.W. range is replaced by a third S.W. band covering 10–12 metres. This change involves a number of slight modifications to the aerial and oscillator tuning circuits, including the switching into circuit on this band of two 33-pF. capacitors in series with the ganged tuning capacitors.

Capacitors.

C1	4–40 pF.
C2	4–40 pF.
C3	4–40 pF.
C4	40–80 pF.
C5	0·1
C6	100 pF.
C7	399 pF. Swing
C8	150 pF.
C9	150 pF.
C10	0·1
C11	100 pF.
C12	0·1
C13	0·005
C14	2960 pF.
C15	485 pF.
C16	200 pF.
C17	0·1
C18	3–30 pF.
C19	3–30 pF.
C20	4–40 pF
C21	40–80 pF.
C22	60 pF.
C23	100 pF.
C24	150 pF.
C25	300 pF.
C26	0·1
C27	100 pF.
C28	100 pF.
C29	0·01
C30	100 pF.
C31	4 (350 v.)
C32	50 (12 v.)
C33	500 pF.
C34	0·1
C35	0·001
C36	50 (12 v.)
C37	0·05
C38	16 (350 v.)
C39	24 (350 v.)
C40	0·001
C41	0·01
C42	0·01
C43	40 pF.
C44	40 pF.



CIRCUIT DIAGRAM AND TRIMMER LAY-OUT—VIDOR MODEL CN.385

Resistors.

R1	100k	½ W.	10%	R8	330	¼ W.	10%	R14	22k	¼ W.	20%	R20	150	½ W.	10%
R2	33k	1 W.	10%	R9	470k	¼ W.	20%	R15	47k	¼ W.	20%	R21	50k	Pot.	
R3	470k	¼ W.	20%	R10	1M	¼ W.	20%	R16	2·2k	¼ W.	10%	R22	47k	½ W.	20%
R4	220	¼ W.	10%	R11	47k	¼ W.	20%	R17	470k	¼ W.	20%	R23	82	2 W.	20%
R5	47k	¼ W.	20%	R12	220k	¼ W.	20%	R18	100k	¼ W.	20%	R24	805 + 705 + 805 + 130		
R6	100	¼ W.	20%	R13	1M	Pot.		R19	100	¼ W.	20%				
R7	33k	1 W.	10%												