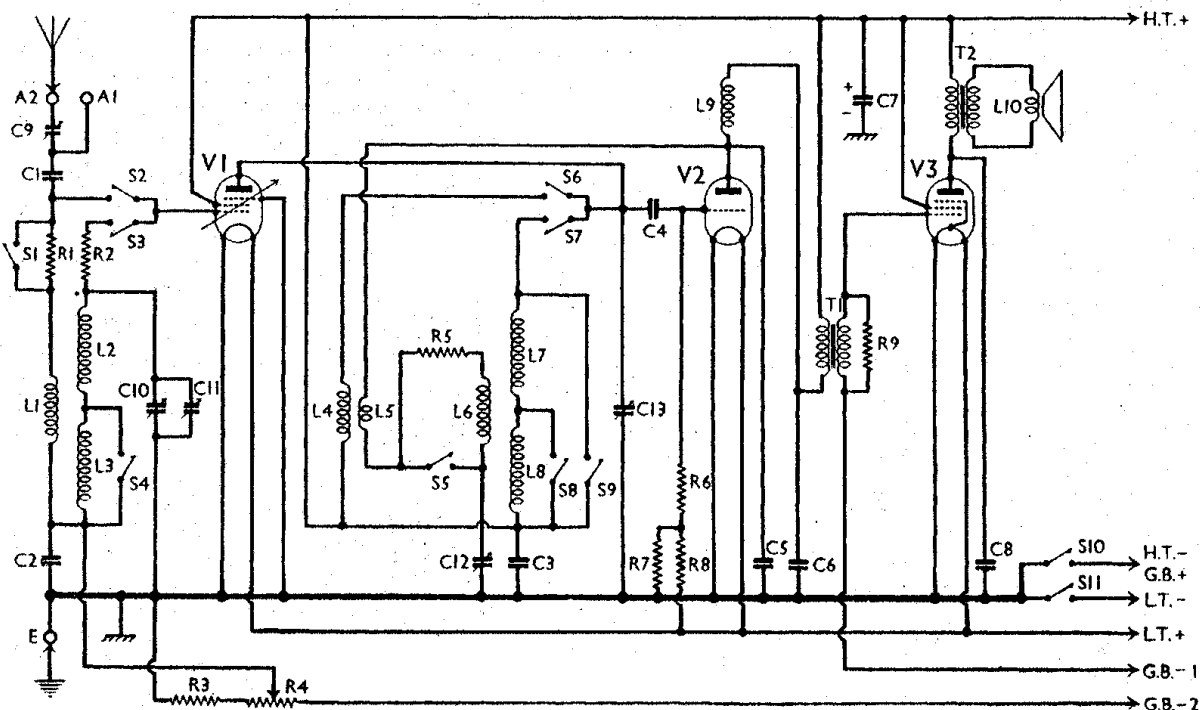


VIDOR - CN 232



Circuit diagram of the Vidor CN232 3-valve battery receiver. L4 and L5 are the S.W. coils. V1 is merely used for coupling purposes on the S.W. band. The GB-1 lead is fitted with a yellow plug (-4.5 V), while GB-2 has a green plug (-9 V).

COMPONENTS AND VALUES

Resistances		Values (ohms)
R1	Aerial series resistance (S.W.)	15,000
R2	V1 grid series resistance	500
R3	V1 fixed G.B. resistance	500
R4	V1 gain control	15,000
R5	M.W. and L.W. reaction stabiliser	200
R6	V2 grid leak	1,000,000
R7	Filament potentiometer (V2)	200
R8		200
R9	Intervalve trans. sec. shunt	250,000

Condensers		Values (μF)
C1	Fixed aerial series condenser	0.0005
C2	V1 cont. grid decoupling	0.1
C3	V1 anode decoupling	0.1
C4	V2 grid condenser	0.0001
C5	V2 anode H.F. by-passes	0.0001
C6		0.0002
C7*	H.T. reservoir	8.0
C8	Tone compensator	0.005
C9†	Pre-set aerial condenser	—
C10	Aerial circuit tuning	—
C11†	Aerial circuit trimmer	—
C12	Reaction condenser	0.0005
C13	V1 anode circuit tuning	—

* Electrolytic.

† Pre-set.

Coils.—These are in three unscreened units beneath the chassis. Two of them carry the M.W. and L.W. coils, while the third is for the S.W. windings. The individual coils are indicated in the under-chassis view. This also shows the H.F. choke L9.

Other Components		Values (ohms)
L1	Aerial coupling coil	1.2
L2	Aerial tuning coils	4.2
L3		8.5
L4	Short wave tuning coil	0.05
L5	Short wave reaction coil	0.25
L6	M.W. and L.W. reaction coil	1.2
L7	V1 anode tuning coils	4.2
L8		8.5
L9	V2 anode H.F. choke	165.0
L10	Speaker speech coil	2.4
T1	Intervalve trans.	Pri. 125.0 Sec. 700.0
T2	Speaker input trans.	Pri. 700.0 Sec. 0.5
S1-S9	Waveband switches	—
S10	H.T. and G.B. switch (ganged R4)	—
S11	L.T. switch (ganged R4)	—

Valve	Anode Volts	Anode Current (mA)	Screen Volts	Screen Current (mA)
V1 VP2	115	1.2	115	0.4
V2 HL2	110	3.6	—	—
V3 PM22A	112	3.4	115	0.85

GENERAL NOTES

Switches.—The wavechange switches, S1-S9, are ganged together in a single unit, seen in the under-chassis view, where the individual switches are indicated. The table in column two gives the various switch positions for the different settings of the control, O indicating open, and C closed.

S10 and S11 are respectively the combined H.T. and G.B., and the L.T. switches, in the form of a 2-pole Q.M.B. unit, ganged with the volume control R4.

VALVE ANALYSIS

Readings of valve voltages and currents printed in the table below were measured with new batteries, no signal input, the volume control at maximum, and the reaction condenser at minimum. Voltages were measured on the 1,200 V scale of an Avometer, with chassis as negative.

Switch	S.W.	M.W.	L.W.
S1	O	C	C
S2	C	O	O
S3	O	C	C
S4	O	C	O
S5	C	O	O
S6	C	O	O
S7	O	C	C
S8	O	C	O
S9	C	O	O