

VIDOR

"VANESSA"

Model CN433

General Description : Five-valve (including rectifier), two-waveband transportable receiver with ferrite rod and provision for external aerials.

Power Supply : A.C. mains, 195-255 volts, 40-100 c/s., 32 watts.

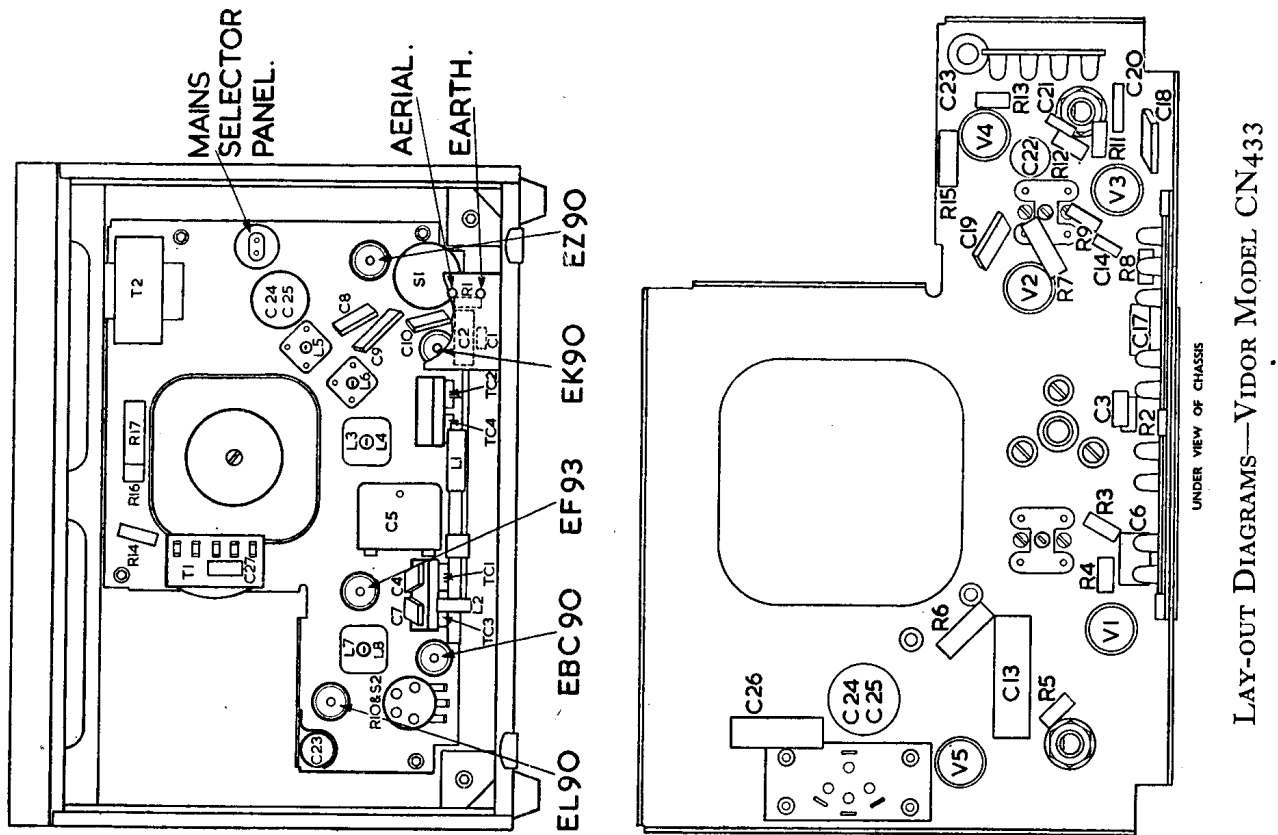
Wavebands : L.W. 1052-2000 m.; M.W. 187-550 m.

Valve Analysis : Voltages measured on the 1000-volt range of Avo Model 7 (1000 ohms/volt) except where otherwise stated. No-signal conditions with set on M.W. Variations of up to 15 per cent may be anticipated.

<i>Valve</i>	<i>Anode, volts</i>	<i>Anode, mA.</i>	<i>Screen, volts</i>	<i>Screen, mA.</i>	<i>Cathode, volts</i>	<i>Cathode, mA.</i>
V1 EK90 . .	174	1.4	89	6.4	—	9
V2 EF93 . .	174	10.2	89	3.7	—	13.9
V3 EBC90 . .	65	0.5	—	—	—	0.5
V4 EL90 . .	192	27.5	175	2.5	7.8 *	30
V5 EZ90 . .	208 A.C.	—	—	—	203	53.5

* 10-v. range.

Alignment Procedure : Adjust tuning knob so that round or square alignment mark on scale adjacent to the 540-m. position coincides with the indicator plate (see Model CN432). Cleat screw on tuning knob boss



LAYOUT DIAGRAMS—VIDOR MODEL CN433

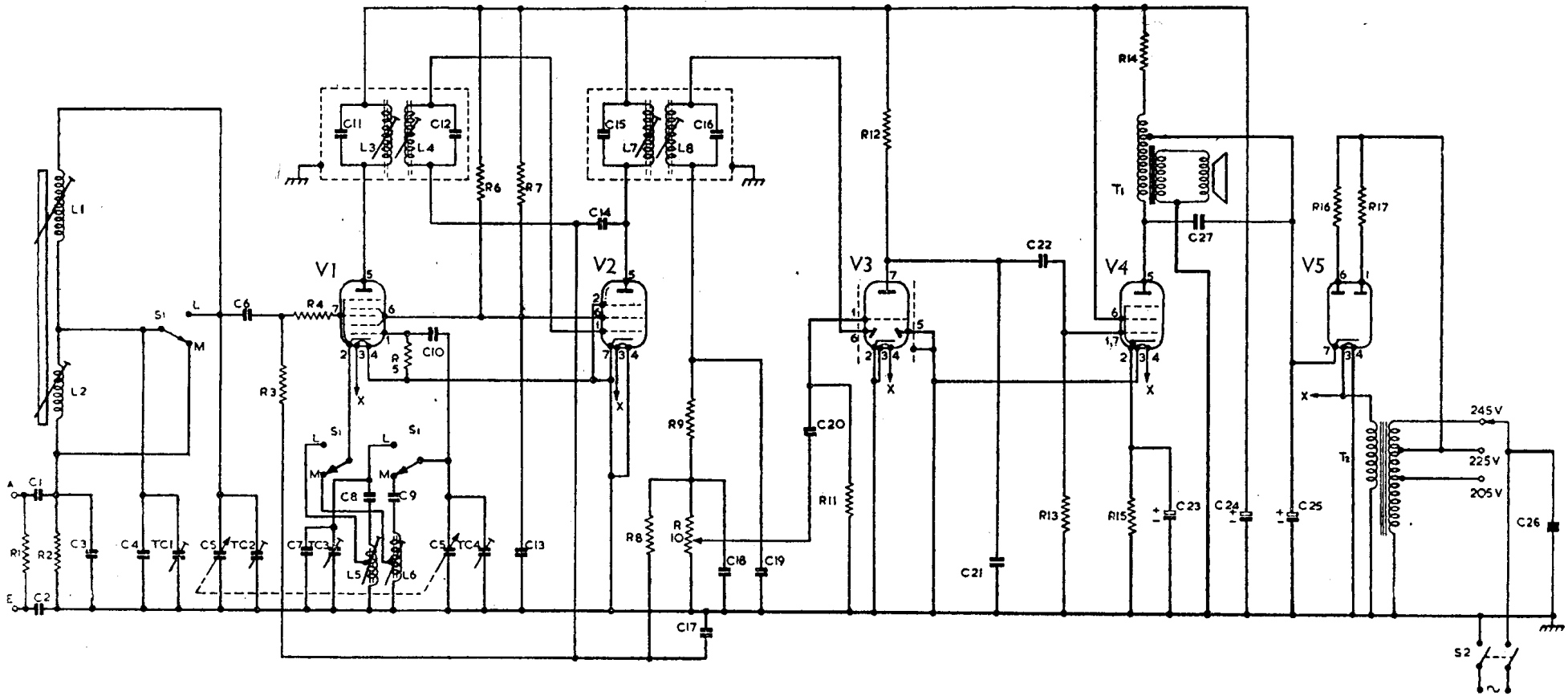
may be slacked through slot in base of cabinet. *Note* : chassis is connected to one side of mains supply.

I.F. : Remove chassis from cabinet. Inject a 470-kc/s. signal by connecting "hot" lead to front section of gang and earthy lead to chassis. Adjust cores of L8, L7, L4 and L3 in that order for maximum output. Repeat for optimum results.

R.F. : This can be carried out with chassis in cabinet, trimmers being adjusted through slots in base of cabinet. Inject signals via dummy aerial to aerial and earth sockets.

Operation	Knob Setting	Signal Generator	Adjust for Maximum Output
(1) M.W.	500 m.	600 kc/s.	L6, then L1
(2)	Maximum anti-clockwise	1600 kc/s.	TC4, then TC2
(3)		Repeat (1) and (2)	
(4) L.W.	1900 m.	158 kc/s.	L5, then L2
(5)	1100 m.	273 kc/s.	TC3, then TC1
(6)		Repeat (4) and (5)	

Removing Chassis : Remove knobs. Volume and wave-change knobs are of push-on type. Tuning knob is removed by slackening cleat screw through slot in base of cabinet. Unsolder speaker leads and aerial and earth leads. Unscrew four 4 B.A. nuts on each corner. Chassis can now be removed, but great care should be taken to avoid damage to aerial-rod assembly.



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CIRCUIT DIAGRAM—VIDOR MODEL CN433 ("VANESSA")

Capacitors.

- C1 470 pF. (300 v. A.C.)
- C2 0.01 (300 v. A.C.)
- C3 0.005
- C4 70 pF. (5%)
- C5 523 pF.
- C6 100 pF.
- C7 130 pF. (2%)
- C8 216 pF. (2%)
- C9 470 pF. (2%)

- C10 100 pF.
- C11 65 pF. (3%)
- C12 65 pF. (3%)
- C13 0.1
- C14 3.3 pF. (± 0.5 pF.)
- C15 65 pF. (3%)
- C16 65 pF. (3%)
- C17 0.01
- C18 100 pF.

- C19 100 pF.
- C20 100 pF.
- C21 220 pF.
- C22 0.003
- C23 25 (25 v.)
- C24 32 (250 v.)
- C25 32 (250 v.)
- C26 0.01 (300 v. A.C.)
- C27 0.01

Resistors.

- R1 1M
- R2 1.5k
- R3 470k
- R4 100
- R5 22k
- R6 15k (10%, 1/2 W.)
- R7 18k (10%, 1/2 W.)
- R8 2.2M
- R9 47k

- R10 1M (Pot. log.)
- R11 10M
- R12 220k
- R13 470k
- R14 1k (1/2 W.)
- R15 270 (10%, 1/2 W.)
- R16 470 (10%, 1 W.)
- R17 470 (10%, 1 W.)