VIDOR - 353

OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	M.W. frame aerial...	7·5	F3
L2	L.W. frame aerial...	18·0	—
L3	Osc. tuning coil ...	1·8	E4
L4	Osc. reaction coil...	1·5	E4
L5	1st I.F. trans. Pri.	13·0	C1
L6	1st I.F. trans. Sec.	13·0	C1
L7	2nd I.F. trans. Pri.	13·0	B1
L8	2nd I.F. trans. Sec.	13·0	B1
L9	Speech coil ...	3·0	B1
T1	Speaker trans. Pri.	350·0	B2
	Speaker trans. Sec.	0·5	B2
S1-S3	Waveband switches	—	D1
S4	L.T. circuit switch	—	B1
S5	H.T. circuit switch	—	B1

RESISTORS		Values (ohms)	Location
R1	V1 pent. C.G. ...	470,000	F3
R2	V1 osc. C.G. ...	100,000	E4
R3	V2 S.G. H.T. feed...	47,000	F4
R4	A.V.C. decoupling	2,200,000	G4
R5	I.F. stopper ...	47,000	G4
R6	Volume control ...	1,000,000	E4
R7	V3 pent. C.G. ...	4,700,000	G4
R8	V3 S.G. H.T. feed...	4,700,000	H4
R9	V3 pent. load ...	1,000,000	H4
R10	V4 C.G. resistor ...	4,700,000	H4
R11	V4 G.B. resistor ...	820	H3

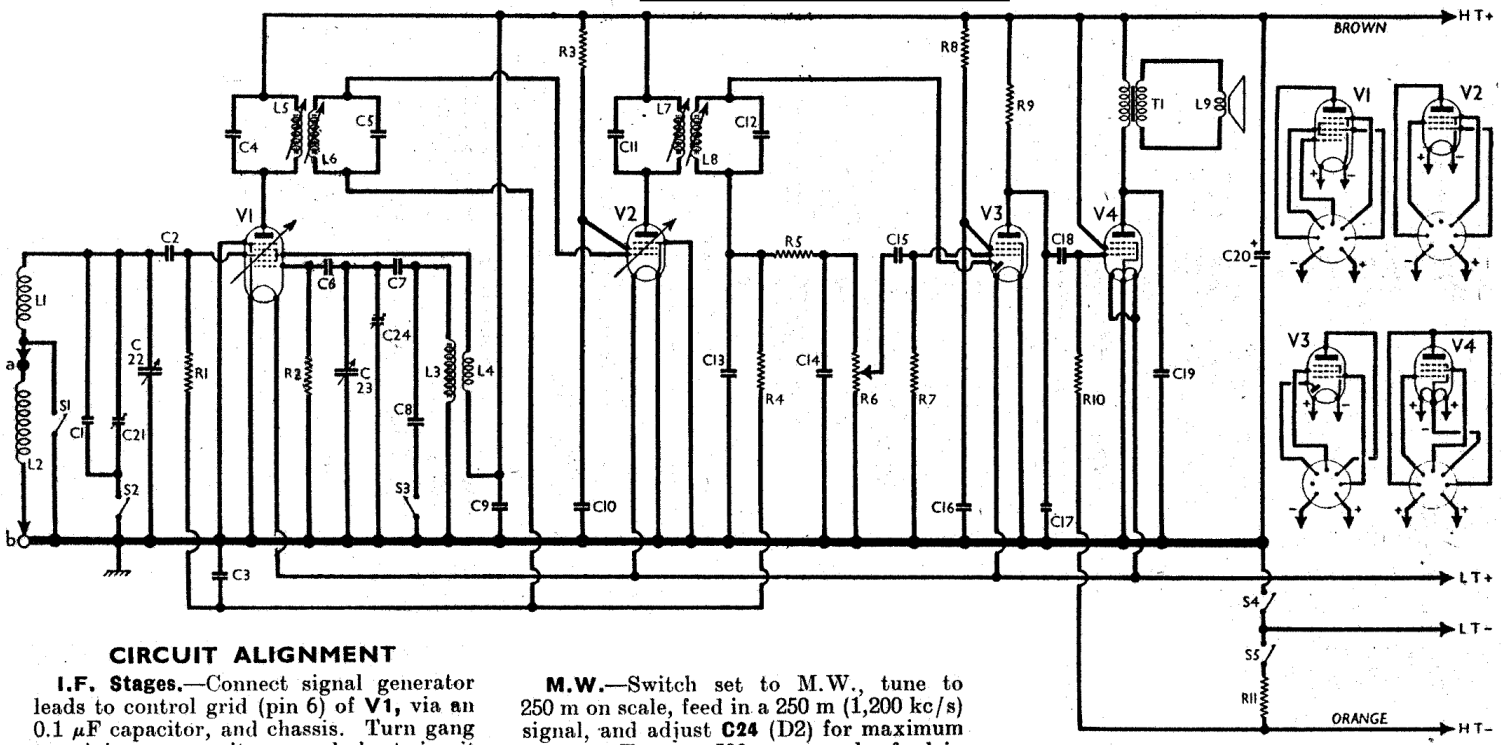
VALVE ANALYSIS

Valve	Anode Voltage (V)	Screen Voltage (V)
V1 DK91	59	59
V2 DF91	59	43
V3 DAF91	6	2
V4 DL92	57	59

CAPACITORS		Values (μF)	Locations
C1	L.W. fixed trim. ...	0·00009	D2
C2	V1 pent. C.G. ...	0·0001	E3
C3	A.V.C. decoupling	0·1	F4
C4	1st I.F. transformer tuning ...	0·0001	C1
C5	1st I.F. transformer tuning ...	0·0001	C1
C6	V1 osc. C.G. ...	0·0091	E4
C7	Osc. tracker ...	0·00036	E4
C8	Osc. L.W. trim. ...	0·000315	E4
C9	H.T. R.F. by-pass	0·1	F4
C10	V2 S.G. decoup. ...	0·1	F4
C11	2nd I.F. transformer tuning ...	0·0001	B1
C12	2nd I.F. transformer tuning ...	0·0001	B1
C13	I.F. by-pass capacitors ...	0·0001	G3
C14	I.F. by-pass capacitors ...	0·0001	G4
C15	A.F. coupling ...	0·01	E3
C16	V3 S.G. decoup. ...	0·1	G4
C17	I.F. by-pass ...	0·00005	H4
C18	A.F. coupling ...	0·01	H4
C19	Tone corrector ...	0·005	A2
C20*	H.T. reservoir ...	2·0	A1
C21‡	Aerial L.W. trim....	0·00003	E4
C22†	Aerial tuning ...	0·000305	D1
C23†	Oscillator tuning ...	0·000305	D2
C24‡	Osc. M.W. trim. ...	0·00003	E4

* Electrolytic. † Variable. ‡ Pre-set.

Intermediate frequency 456 kc/s.



CIRCUIT ALIGNMENT

I.F. Stages.—Connect signal generator leads to control grid (pin 6) of **V1,** via an 0.1 μF capacitor, and chassis. Turn gang to minimum capacitance and short-circuit oscillator (rear) section, turn volume control to maximum, and feed in a 456 kc/s (657.8 m) signal. Using a non-metallic trimming tool, adjust the cores of **L5, L6, L7** and **L8** (location references F3, C1, G3, B1) for maximum output.

R.F. and Oscillator Stages.—With the gang at maximum capacitance the white indicator line should coincide with the 560 m calibration line. It will usually be found that sufficient signal is obtained by laying the signal generator leads close to the M.W. frame aerial in the lid.

M.W.—Switch set to M.W., tune to 250 m on scale, feed in a 250 m (1,200 kc/s) signal, and adjust **C24** (D2) for maximum output. Tune to 500 m on scale, feed in a 500 m (600 kc/s) signal, and adjust the core of **L3** (D2) for maximum output.

L.W.—For this operation the receiver must be reassembled in its carrying case and the batteries and back cover fitted. Switch set to L.W., tune to 1,500 m on scale, feed in a 1,500 m (200 kc/s) signal, and check sensitivity aurally by rocking the gang either side of the 1,500 m calibration line. If the sensitivity appears to be low, remove the back cover and give **C21** (D2) one or two turns. Replace back cover and check sensitivity.