

VIDOR - RIVIERA

OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	S.W. frame aerial...	very low	—
L2	M.W. frame aerial...	2-0	—
L3	L.W. frame aerial...	25-0	—
L4	Oscillator tuning coils ...	0-4	C2
L5		1-5	B2
L6		4-0	B2
L7	Oscillator reaction coils ...	very low	C2
L8		1-2	B2
L9	1st I.F. trans. { Pri. Sec. }	2-8	B2
L10		8-0	C2
L11	2nd I.F. trans. { Pri. Sec. }	8-0	C2
L12		8-0	A2
L13	Speech coil { Pri. Sec. }	8-0	A2
L14		3-0	—
T1	Spkr. trans. { Pri. Sec. }	470-0	—
S1-S10	Waveband switches	—	C1
S11	H.T. circuit switch	—	C1
S12	L.T. circuit switch	—	C1

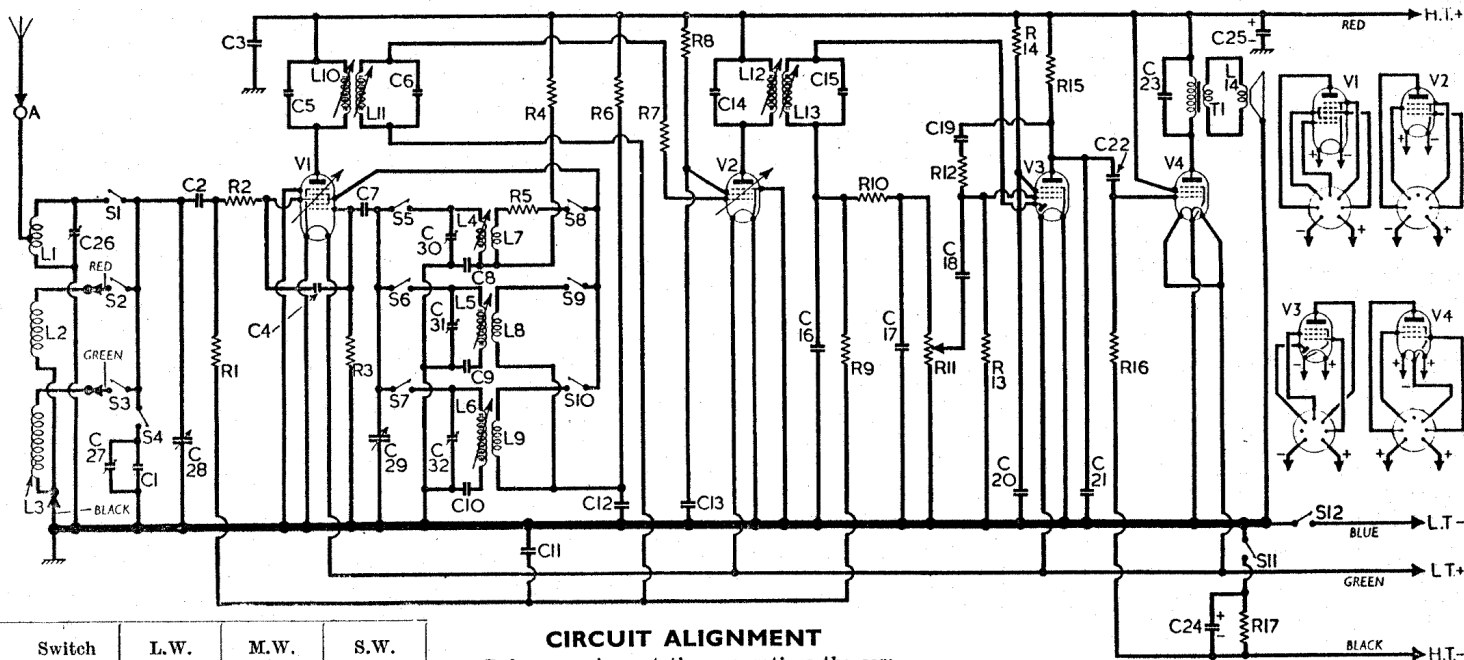
CAPACITORS		Values (μF)	Locations
C1	L.W. fixed trim. ...	0-000015	C1
C2	V1 pentode C.G. ...	0-0001	D3
C3	H.T. R.F. by-pass ...	0-1	F3
C4	S.W. neutralising ...	0-000004	D3
C5	1st I.F. trans. tuning ...	0-000065	C2
C6		0-000065	C2
C7	V1 osc. C.G. ...	0-0001	E3
C8	Osc. S.W. tracker ...	0-005	B2
C9	Osc. M.W. tracker ...	0-000635	B2
C10	Osc. L.W. tracker ...	0-000230	B2
C11	A.G.C. decoupling ...	0-1	D4
C12	Osc. H.T. decoup. ...	0-1	F4
C13	V2 S.G. decoup. ...	0-1	E3
C14	2nd I.F. trans. tuning ...	0-000065	A2
C15		0-000075	A2
C16	I.F. by-pass capacitors ...	0-0001	G3
C17		0-0001	G3
C18	A.F. coupling ...	0-01	G3
C19	F.B. coupling ...	0-01	H3
C20	V3 S.G. decoupling ...	0-05	G4
C21	I.F. by-pass ...	0-0001	H3
C22	A.F. coupling ...	0-01	H4
C23	Tone corrector ...	0-003	G4
C24*	G.B. by-pass ...	50-0	F3
C25*	H.T. reservoir ...	2-0	F3
C26†	Aerial S.W. trim. ...	0-00004	C1
C27†	Aerial L.W. trim. ...	0-00008	C1
C28†	Aerial tuning ...	0-000532	B1
C29†	Oscillator tuning ...	0-000532	B2
C30†	Osc. S.W. trim. ...	0-00003	C1
C31†	Osc. M.W. trim. ...	0-00008	C1
C32†	Osc. L.W. trim. ...	0-00024	B1

Valve		Anode		Screen	
		V	m/A	V	m/A
V1	1R5	83	1-1	53	1-9
V2	1T4	83	1-2	43	0-48
V3	1S5	11	0-05	7	0-01
V4	3V4	81	3-8	83	1-8

RESISTORS		Values (ohms)	Locations
R1	V1 C.G. resistor ...	1,000,000	D3
R2	V1 grid stopper ...	33	D3
R3	V1 osc. C.G. ...	100,000	D3
R4	Osc. S.W. H.T. feed	10,000	E3
R5	Osc. stabilizer ...	33	C2
R6	Osc. anode decoup.	15,000	E4
R7	V2 grid stopper ...	820	D4
R8	V2 S.G. decoup. ...	68,000	E4
R9	A.G.C. decoupling	2,200,000	G3
R10	I.F. stopper ...	47,000	G3
R11	Volume control ...	1,000,000	A1
R12	F.B. resistor ...	8,200,000	H3
R13	V3 C.G. resistor ...	2,200,000	H3
R14	V3 S.G. decoup. ...	4,700,000	G4
R15	V3 anode load ...	1,000,000	H3
R16	V4 C.G. resistor ...	2,200,000	H4
R17	V4 G.B. resistor ...	680	F3

Intermediate frequency 456 kc/s.

* Electrolytic. † Variable. ‡ Pre-set.



CIRCUIT ALIGNMENT

Before carrying out these operations the complete receiver must be removed from the carrying case and assembled on the bench.

I.F. Stages.—Connect signal generator, via an 0.0001 μF capacitor in the "live" lead, to control grid (pin 6) of V1 and chassis. Switch set to L.W. and tune to 2,000 m on scale, turn volume control to maximum, short circuit C29 (location reference B2), and feed in a 456 kc/s (657.8 m) signal. Adjust the cores of L13, L12, L11 and L10 (A2, C2) for maximum output, progressively attenuating the input as the circuits are aligned to avoid A.G.C. action. Finally, remove short-circuit from C29 and disconnect signal generator leads from receiver.

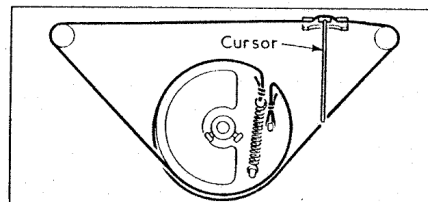
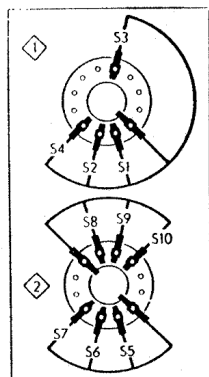
R.F. and Oscillator Stages.—For these operations the batteries must be in their normal positions in the assembly, and the signal generator leads should be secured on the bench, close to the assembly. With the gang at maximum capacitance, the pointer should be horizontal and coincident with the high wavelength ends of the three scales.

S.W.—Switch set to S.W., tune to 17 m on scale, feed in a 17 m (17.64 Mc/s) signal and adjust C30 (C1) and C26 (C1) for maximum output. If the output under these conditions is unworkably low the "live" signal generator lead may be connected to the brass plate on the frame aerial via a 0.0002 μF capacitor, and to chassis. Tune to 50 m on scale, feed in a 50 m (6.0 Mc/s) signal, and adjust the core of L4 (C2) for maximum output while rocking the gang slightly after each adjustment. Repeat the operations until no improvement results, and finally seal C30.

M.W.—Switch set to M.W., and tune to 200 m on scale, feed in a 200 m (1,500 kc/s) signal, and adjust C31 (C2) for maximum output. Tune to 550 m on scale, feed in a 550 m (545.4 kc/s) signal, and adjust the core of L5 (B2)

for maximum output. Repeat these adjustments until no improvement results.

L.W.—Switch set to L.W., tune to 1,000 m on scale, feed in a 1,000 m (300 kc/s) signal, and adjust C32 (B1) and C27 (C1) for maximum output. Tune to 2,000 m on scale, feed in a 2,000 m (150 kc/s) signal, and adjust the core of L6 (B2) for maximum output. Repeat the adjustments until no improvement results.



The tuning drive system as seen from the front after removing the scale. The cord is about 30 inches long.