

VIDOR - REGATTA

OTHER COMPONENTS		Approx. Values (ohms)	Loca- tions
L1	M.W. frame aerial ...	2-0	—
L2	L.W. frame aerial ...	15-0	—
L3	Osc. tuning coil ...	1-4	E2
L4	Osc. reaction coil ...	1-0	E2
L5	1st I.F. trans. {	22-0	B1
L6		22-0	B1
L7	2nd I.F. trans. {	22-0	C1
L8		22-0	C1
L9	Speech coil ...	3-0	—
T1	O.P. trans. {	530-0	—
		0-2	—
S1-S3	Waveband switches ...	—	F2
S4, S5	Battery switches ...	—	—

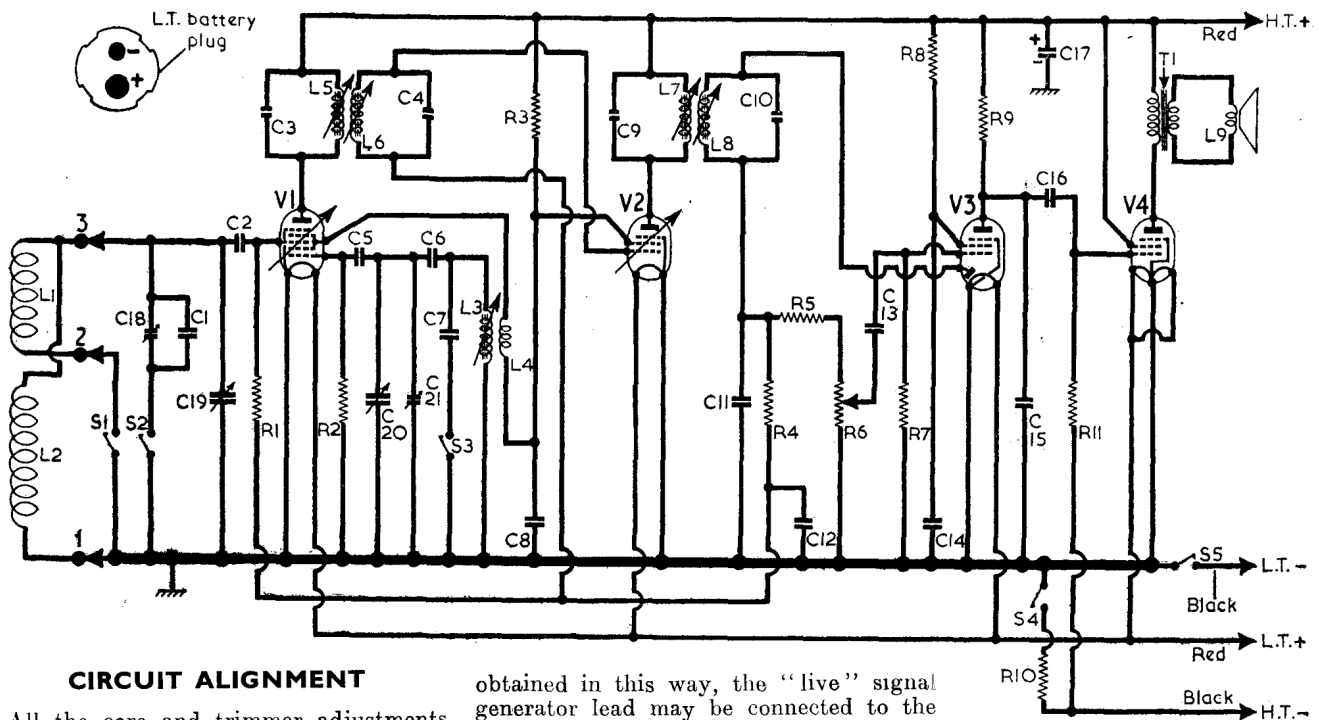
CAPACITORS		Values	Loca- tions
C1	L.W. aerial trim. ...	150pF	F2
C2	V1 C.G. ...	100pF	F2
C3	1st I.F. trans. {	65pF	B1
C4		65pF	B1
C5	V1 osc. C.G. ...	100pF	F2
C6	Osc. tracker ...	635pF	F2
C7	L.W. osc. trim. ...	515pF	F2
C8	S.G. decoupling ...	0-1μF	B1
C9	2nd I.F. trans. {	65pF	C1
C10		65pF	C1
C11	I.F. by pass ...	100pF	E2
C12	A.G.C. decoupling ...	0-05μF	E2
C13	A.F. coupling ...	0-001μF	E2
C14	V3 S.G. decoupling ...	0-05μF	D2
C15	I.F. by-pass ...	200pF	D2
C16	A.F. coupling ...	0-01μF	D2
C17*	H.T. by-pass ...	2μF	B1
C18†	L.W. aerial trim. ...	70pF	A1
C19†	Aerial tuning ...	523pF	A1
C20†	Oscillator tuning ...	523pF	A1
C21‡	M.W. osc. trim. ...	70pF	A1

RESISTORS		Values	Loca- tions
R1	V1 C.G. ...	470kΩ	E2
R2	V1 osc. C.G. ...	100kΩ	F2
R3	S.G. feed ...	12kΩ	E2
R4	A.G.C. decoupling ...	2-2MΩ	E2
R5	I.F. stopper ...	100kΩ	E2
R6	Volume control ...	1MΩ	—
R7	V3 C.G. ...	4-7MΩ	D2
R8	V3 S.G. feed ...	4-7MΩ	D2
R9	V3 anode load ...	1MΩ	D2
R10	V4 G.B. ...	560Ω	E2
R11	V4 C.G. ...	2-2MΩ	D2

Valve		Anode		Screen	
		V	mA	V	mA
V1	DK91 ...	87	1-1	56	1-8
V2	DF91 ...	87	2-1	56	0-8
V3	DAF91 ...	19	0-08	19	0-07
V4	DL94† ...	84	5-0	87	1-0

Intermediate frequency 475 kc/s

* Electrolytic. † Variable. ‡ Pre-set.
§ "Swing" value, min. to max.



CIRCUIT ALIGNMENT

All the core and trimmer adjustments are made accessible by unscrewing the two captive bolts in the front corners of the receiver escutcheon and raising the escutcheon. The chassis need not be removed.

I.F. Stages.—Switch receiver to M.W., tune to 200 m and turn volume control to maximum. Connect signal generator leads to junction of C18 and C2, and to chassis, feed in a 475 kc/s (631.6 m) signal and adjust the cores of L8 (location reference C1), L7 (E2), L6 (B1) and L5 (E2) for maximum output, reducing the input as the circuits come into line to avoid A.G.C. action. Repeat these adjustments.

RF and Oscillator Stages.—Check that with the gang at maximum capacitance, the cursor is in the centre of the 550 m mark on the tuning scale. The signal generator should be coupled to the frame aerials by laying the leads near the lid of the receiver. If insufficient coupling is

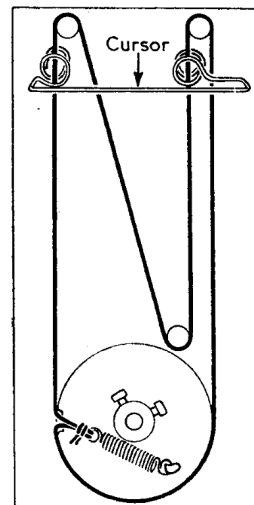
obtained in this way, the "live" signal generator lead may be connected to the chassis frame.

M.W.—Switch receiver to M.W., tune to 200 m, feed in a 200 m (1,500 kc/s) signal and adjust C21 (A1) for maximum output. Tune receiver to 500 m, feed in a 500 m (600 kc/s) signal and adjust the core of L3 (B1) for maximum output, rocking the gang slightly to obtain maximum output. Repeat these adjustments until the calibration is correct at both ends of the band.

L.W.—Switch receiver to L.W., tune to 1,200 m, feed in a 1,200 m (250kc/s) signal and adjust C18 (A1) for maximum output. If the calibration at the high wavelength end of the band is badly out, C6 should be checked and replaced if its value is outside the stated ± 1 per cent tolerance.

Cursor Drive Cord Replacement.—About 30 inches of high-grade fishing line, plaited and waxed, is required for a new drive cord. It is run as shown in the sketch in col 2, where it is drawn as seen from the front when the gang is at maximum capacitance.

To fit the cord it is necessary to remove the chassis from its mounting, although it may not be necessary to unsolder all the leads. The work is facilitated by the removal of the metal tuning scale panel, which is held by three 8BA round-head screws, with lock-washers. The cursor can be fitted afterwards.



Drive cord system, as seen from the front.