

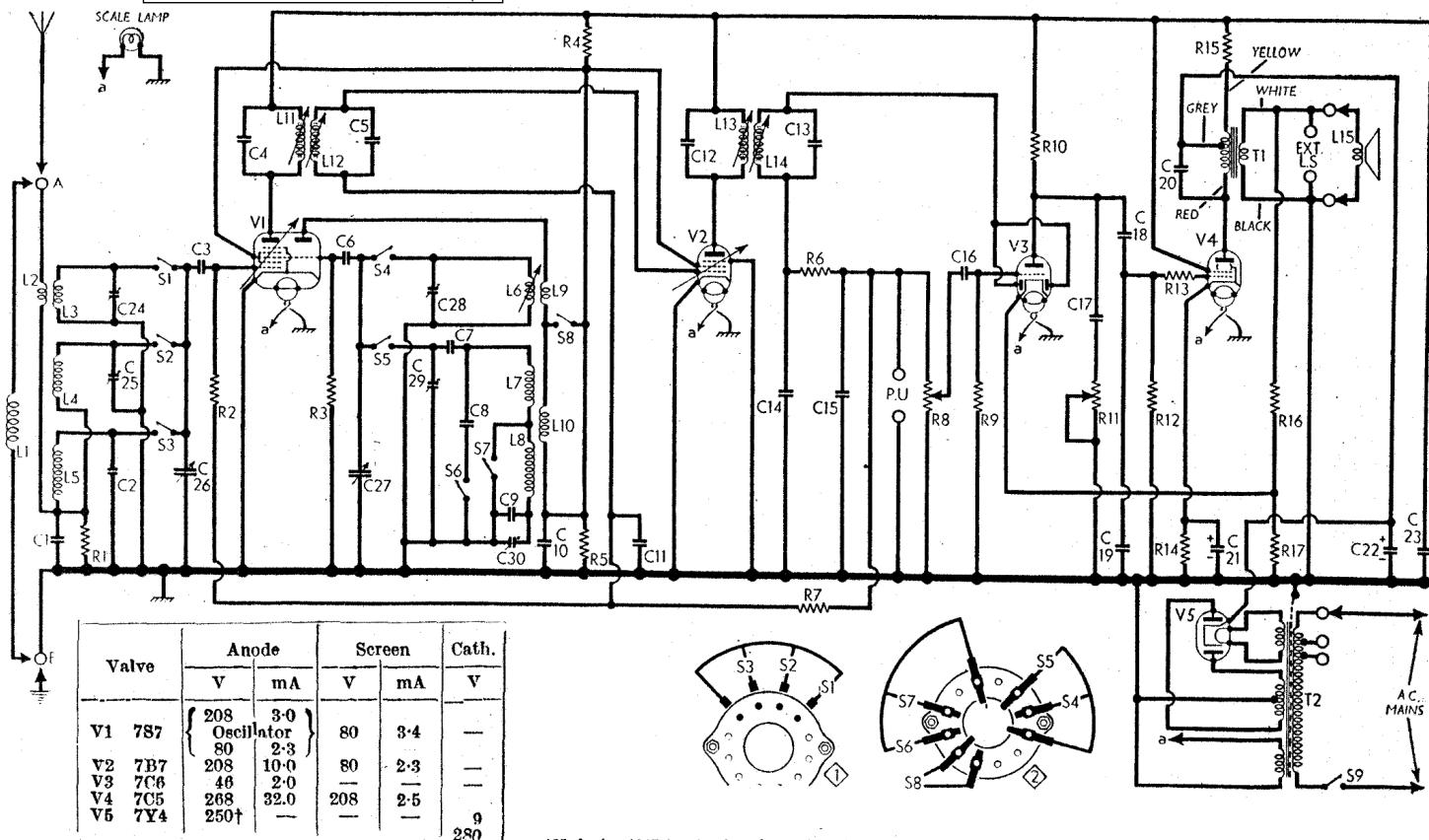
OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	Frame aerial	0.5	—
L2	Aerial S.W. coup...	0.3	A1
L3	Aerial tuning coils	Very low	A1
L4		3.2	A1
L5		13.0	A1
L6	Oscillator tuning coils	Very low	J3
L7		5.0	H3
L8		7.0	H3
L9	Oscillator reaction coils	25.0	J3
L10		2.2	H3
L11	1st I.F. trans. { Pri.	8.5	A2
L12	Sec.	8.5	A2
L13	2nd I.F. trans. { Pri.	8.5	A2
L14	Sec.	8.5	A2
L15	Speech coil	2.25	—
T1	Output trans.	Pri., yel... Pri., grey... Pri., grey... Sec. ... Pri., total Heat.	12.0 265.0 0.5 44.0
T2	Mains trans.	Rect. heat. sec. ... H.T. sec., total...	Very low 0.2 515.0
S1-S8	W/band switches	—	G3
S9	Mains sw., g'd R8...	—	C3

Switch	S.W.	M.W.	L.W.
S1	○	—	—
S2	—	○	—
S3	—	—	○
S4	○	—	—
S5	—	○	—
S6	—	—	○
S7	—	○	—
S8	○	—	—

CAPACITORS		Values (μF)	Locations
C1	Aerial coupling	0.005	A2
C2	Aerial L.W. trim...	0.000075	G3
C3	V1 hept. C.G.	0.0005	J3
C4	1st I.F. transformer	0.0001	A2
C5	tuning	0.0001	A2
C6	V1 osc. C.G.	0.0001	H3
C7	Osc. M.W. tracker	0.00044	H3
C8	Osc. L.W. trim.	0.000133	G3
C9	Osc. L.W. track.	0.0005	H3
C10	H.T. feed decoup.	0.1	H4
C11	A.G.C. decoup.	0.1	E3
C12	2nd I.F. transformer	0.0001	A2
C13	tuning	0.0001	A2
C14	—	0.0001	G5
C15	I.F. by-passes	0.0001	F4
C16	A.F. coupling	0.005	E3
C17	Part tone control	0.02	F3
C18	A.F. coupling	0.1	F4
C19	I.F. by-pass	0.0001	E4
C20	Tone corrector	0.005	C3
C21*	V4 cath. by-pass	25.0	F5
C22*	H.T. smoothing	16.0	A2
C23*	—	32.0	A2
C24†	Aerial S.W. trim	0.00006	K3
C25†	Aerial M.W. trim	0.00006	J3
C26†	Aerial tuning	—	A1
C27†	Oscillator tuning	—	A2
C28†	Osc. S.W. trim	0.00006	J3
C29†	Osc. M.W. trim	0.00006	J3
C30†	Osc. L.W. tracker	0.00006	H3

Intermediate frequency 465 kc/s.

* Electrolytic. † Variable. ‡ Pre-set.



† A.O.

CIRCUIT ALIGNMENT

I.F. Stages.—Switch set to M.W., turn gang to minimum capacitance and volume control to maximum, connect signal generator (via an $0.1\mu F$ capacitor in the "live" lead) to control grid (pin 6) of V1 and the E socket, feed in a

465 kc/s (645.16m) signal, and adjust the cores of L14, L13, L12, L11 (location references H5, A2, J5, A2) for maximum output. Repeat these operations until no improvement results.

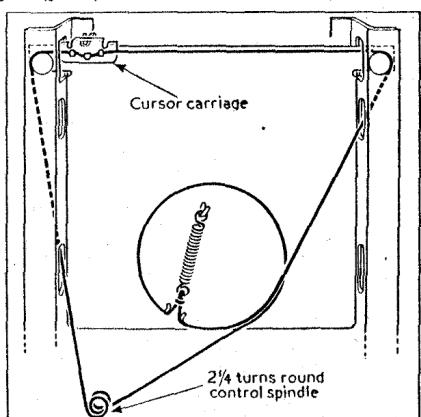
R.F. and Oscillator Stages.—With the gang at minimum capacitance the cursor should coincide with the low wavelength ends of the three scales. Transfer "live" signal generator lead to A socket, via a suitable dummy aerial.

M.W.—With set still switched to M.W., tune to the vertical line (M) at the top of the scale, feed in a 198.6 m (1,550 kc/s) signal, and adjust C29 (J3) and C25 (J3) for maximum output. Check calibration at 360 m (883.2 kc/s) and 520 m, (576.8 kc/s).

L.W.—Switch set to L.W., tune to vertical line (L) at top of scale, feed in a 1,875 m (160 kc/s) signal, and adjust C30 (H3) for maximum output. Check calibration at 1,200 m (250 kc/s) and 1,600 m (187.5 kc/s).

S.W.—Switch set to S.W., tune to left-hand vertical line (S) at top of scale, feed in a 16.67 m (18 Mc/s) signal, and adjust C28 (J3) and C24 (K3) for maximum output, choosing the peak of C28 involving the lesser capacitance. Tune to right-hand vertical line (8) at top of scale, feed in a 50 m (6 Mc/s) signal, and adjust the core of L6 (A1) for maximum output. Repeat these operations until no improvement results.

Drive Cord Replacement.—Forty inches of high grade flax fishing line is required for a new drive cord. It should be run as shown in the sketch (col. 2), where the drive system is drawn as seen from the rear of the chassis when the gang is at maximum.



Sketch of the tuning drive system, viewed from the rear.