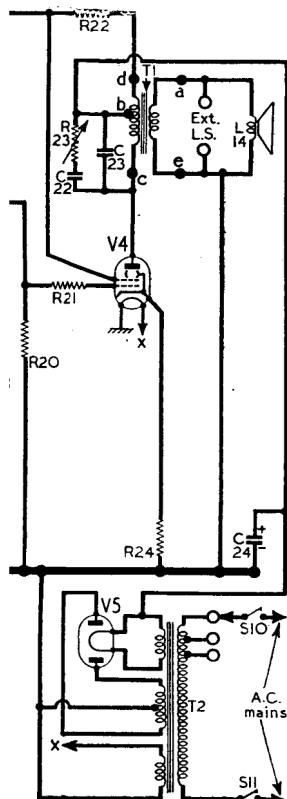
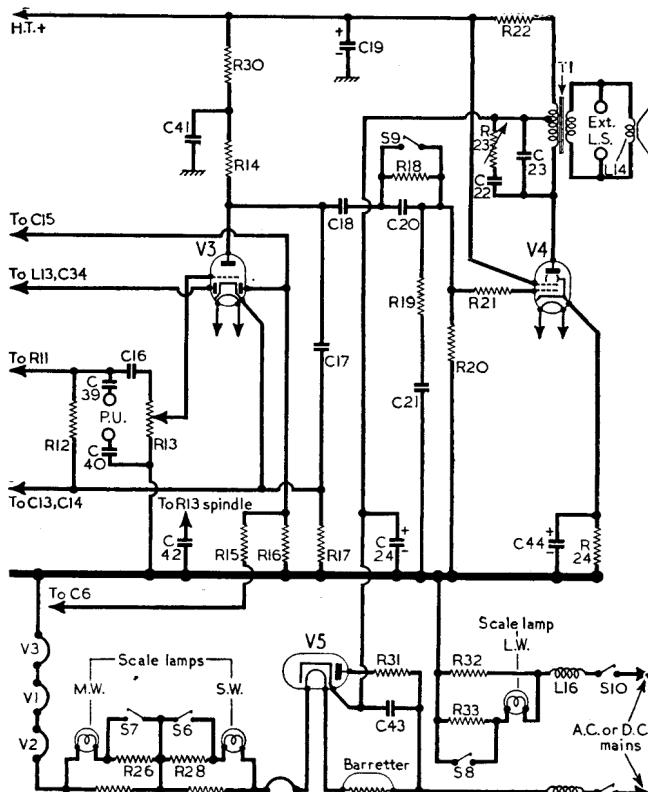


Intermediate frequency 470 kc/s.



A.C. Model



**Drive Cord Replacement.**—The drive cord for the tuning system consists of two sections, one part being a length of stranded steel wire, and one of stout twine, and it is convenient to make up the two sections and tie them together before fitting them. Suitable materials for the cord may be obtained from the G.E.C. Service Depot, Greycoat Street, Westminster, London, S.W.1.

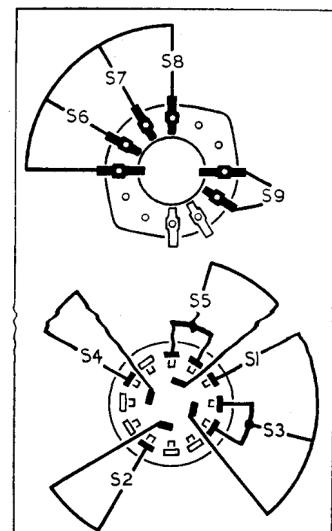
Make up the wire with a loop of about  $\frac{1}{8}$  inch diameter at each end so that it measures 34 inches overall. Take about 30 inches of the twine and tie one end of it with a non-slip knot to one end of the wire. The wire joints can easily be sealed by a touch of solder, and it is advisable to apply a dab of cellulose or some sealing compound to the twine knot.

Turn the gang to maximum, when the drum should take up the position shown in our sketch above. Hook the free end of the wire to the anchor tag shown and run the wire across to the upper slot and then clockwise round the drum for

half a turn, taking it off to the cursor carriage as shown in the sketch.

Continuing with twine, make two turns clockwise round the control spindle, starting from the outer end of the spindle (so that the turns travel inwards when the spindle is turned) and so on round to the gang drum. There tie on the twine fairly short to one end of the tension spring, hooking the other end of the spring in the appropriate hole to give the required tension.

Solder the wire to the cursor carriage at either end of the substitute tuning scale and check that the zero line on the scale coincides with the calibration mark.



Diagrams of the scale lamp switch unit (top) and waveband switch unit (bottom). They are viewed in the direction of the arrows in the under-chassis view. The associated switch table appears below.

Valves	Anode		Screen		Cath.
	V	mA	V	mA	V
V1 X61M	188 Oscillator	0.7 3.0	33	1.5	—
V2 W61	188	4.7	33	1.5	0.6
V3 DH63	113	0.7	—	—	1.4
V4 KT61	285	30.0	188	5.0	3.3
V5 U50	267†	—	—	—	302.0

† A.C.

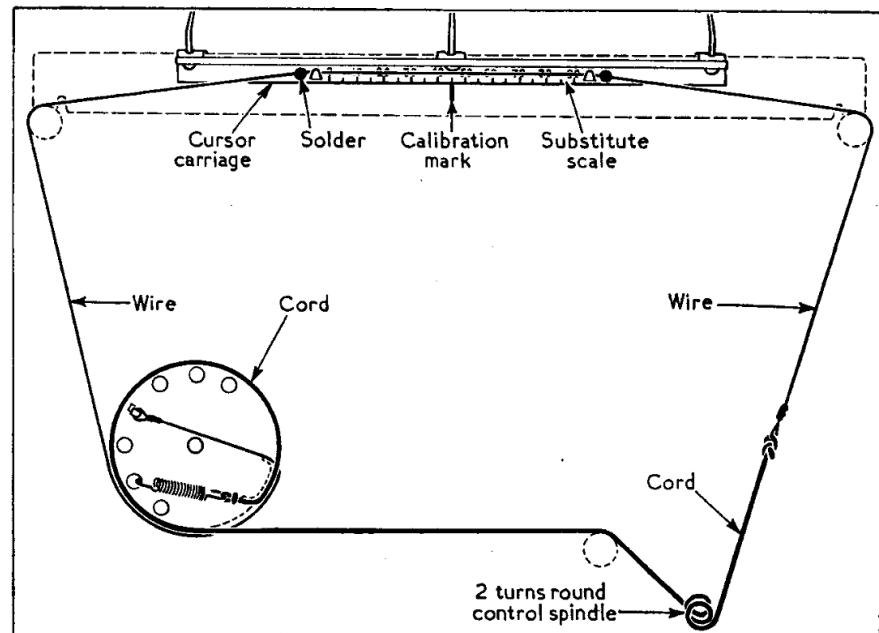
A.C., D.C. Model

Valves	Anode		Screen		Cath.
	V	mA	V	mA	V
V1 X61M	148 Oscillator	1.0 5.0	40	2.7	—
V2 W61	148	6.0	40	1.8	0.7
V3 DH63	80	0.5	—	—	1.1
V4 KT33C	193	58.0	148	9.0	8.0
V5 U31	223†	—	—	—	205.0

† A.C.

CAPA- CITORS	A.C. Model		A.C./D.C. Model	
	Values	Locations	Values	
C1	0.0011μF	D4	—	
C2	0.008μF	E3	0.008μF	
C3	47pF	E3	47pF	
C4	100pF	D4	100pF	
C5	100pF	D4	100pF	
C6	0.05μF	D4	0.05μF	
C7	82pF	D3	82pF	
C8	470pF	D3	470pF	
C9	0.006μF	D3	0.006μF	
C10	270pF	D3	270pF	
C11	0.005μF	D4	0.005μF	
C12	0.05μF	E4	0.05μF	
C13	300pF	E4	300pF	
C14*	25μF	F3	25μF	
C15	22pF	E4	22pF	
C16	0.02μF	E4	0.02μF	
C17	500pF	F4	500pF	
C18	0.02μF	F4	0.02μF	
C19*	32μF	B1	32μF	
C20	200pF	D3	200pF	
C21	0.0015μF	F4	0.0015μF	
C22	0.05μF	F3	0.1μF	
C23	0.005μF	F4	0.01μF	
C24*	16μF	B1	32μF	
C25†	—	D4	—	
C26†	—	D3	—	
C27†	—	C1	—	
C28†	—	C2	—	
C29†	—	C2	—	
C30†	—	C1	—	
C31†	—	D4	—	
C32†	—	D3	—	
C33†	—	B2	—	
C34†	—	B2	—	
C35	—	—	0.02μF	
C36	—	—	0.001μF	
C37	—	—	0.02μF	
C38	—	—	0.001μF	
C39	—	—	0.01μF	
C40	—	—	0.01μF	
C41*	—	—	4μF	
C42	—	—	0.01μF	
G43	—	—	0.01μF	
C44*	—	—	100μF	

\* Electrolytic. † Variable. ‡ Pre-set.



OTHER COMPONENTS		Approx. Values (ohms)	Loca-tions
L1	Frame aerial coil ...	0.4	—
L2	S.W. aerial coup. ...	0.2	E4
L3	—	—	E4
L4	Aerial tuning coils	2.0	E3
L5	—	18.0	E3
L6	1st I.F. trans. { Pri.	6.5	C2
L7	Sec. }	6.5	C2
L8	Oscillator tuning coils ...	3.2	D4
L9	... ...	6.5	D3
L10	S.W. reaction coil...	0.3	D4
L11	—	3.5	B2
L12	2nd I.F. trans. { Pri.	3.5	B2
L13	Sec. }	3.5	B2
L14	Speech coil ...	3.0	—
T1	O.P. trans. { d-b ...	20.0	E3
	b-e ...	580.0	
	a-e ...	0.5	
T2	Primary, total ...	30.0	
	H.T. sec., total ...	300.0	A2
	Rec. heater ...	0.2	
	Valve heater ...	0.2	
S1-S9	Waveband switches	—	D3
S10, S11	Mains sw., g'd R13	—	E3

**Modifications.**—In some models the I.F. transformers may be adjusted by means of pre-set dust-iron cores in the coils instead of pre-set trimmers, the trimmers being replaced by 120pF fixed capacitors.

In earlier models **C1** and **S1** were omitted and the aerial input went direct to **L2**.

A rubber retaining ring is fitted to **V2** and holds it, and the screening can, firmly in position.

In some models **V2** may be an Osram KTW61 and as this has a larger circumference than the W61, the rubber retaining ring is not fitted. **R10** is also omitted

Sketch of the tuning drive system, showing the substitute tuning scale and calibration mark referred to in the circuit alignment. It is drawn as seen when viewed from the front of the chassis with the gang at maximum.

RE- SISTORS	A.C. Model		A.C./D.C. Model	
	Values	Locations	Values	
R1	10kΩ	D4	—	
R2	7.5Ω	C1	—	
R3	7.5Ω	C1	—	
R4	7.5Ω	C1	—	
R5	1MΩ	D4	1MΩ	
R6	100kΩ	D4	68kΩ	
R7	390Ω	D4	390Ω	
R8	33kΩ	D4	2.7kΩ	
R9	47kΩ	E4	27kΩ	
R10	90Ω	E4	90Ω	
R11	56kΩ	E4	56kΩ	
R12	470kΩ	E4	470kΩ	
R13	1MΩ	E3	1MΩ	
R14	100kΩ	F4	100kΩ	
R15	1MΩ	F4	1MΩ	
R16	470kΩ	F4	470kΩ	
R17	2.2kΩ	F4	2.2kΩ	
R18	680kΩ	D3	680kΩ	
R19	150kΩ	F4	150kΩ	
R20	330kΩ	F4	330kΩ	
R21	10kΩ	F3	100kΩ	
R22	6.8kΩ	F3	2.2kΩ	
R23	55kΩ	F3	55kΩ	
R24	100Ω	F4	120Ω	
R25	—	—	1MΩ	
R26	—	—	19.5Ω*	
R27	—	—	100Ω	
R28	—	—	19.5Ω*	
R29	—	—	100Ω	
R30	—	—	18kΩ	
R31	—	—	100Ω	
R32	—	—	27Ω	
R33	—	—	12Ω	

\* Two 39Ω resistors in parallel.