

PHILIPS RADIOPLAYER MODEL 1942

A.C. OPERATED FOR BROADCAST AND SHORT-WAVE RECEPTION.

SPECIFICATIONS. (Subject to Alteration without Notice.)

Voltage Rating (Power Supply) 220-260 volts A.C.
40-60 cycles.

Tuning Range 1600 to 550 Kc/s.
6 to 18 Mc/s.

Intermediate Frequency 472.5 Kc/s.

VALVE EQUIPMENT.

Frequency Converter
I.F. Amplifier, A.V.C., and
Demodulator
Power Amplifier
Rectifier
Dial Lamp

ECH4G Octode (V1).

EBF2G Duo-diode Penthode (V2).

EL3NG Power Penthode (V3).

5Y3G Full Wave (V4).

6.3 volt 0.32 amp. Panel Lamp (V11).

VOLTAGE ADJUSTMENT.

The receiver may be adapted for A.C. mains of 220, 240 or 260 volts by means of taps located on the power transformer. It is important that the receiver should be operated with the red lead in the power flex connected to the tap which most nearly corresponds to the mains voltage where the installation is made.

REMOVING THE CABINET.

- (1) Disconnect power plug and remove back of cabinet.
- (2) Remove all knobs. The knobs on the side of cabinet may be removed by unscrewing grub screws which are accessible from the back of the cabinet.
- (3) Remove 8 metal thread screws securing baffle to philite cabinet as follows:—
 - (a) Two are located, one on either side of panel lamp.
 - (b) Two are fitted, one at the top and outside of either chassis supporting bracket.
 - (c) Two, one on either side of the chassis proper.
 - (d) Two screws are fitted through brackets at the front of the set accessible from underneath chassis.
- (4) With the screws removed, the chassis, speaker and baffle may be withdrawn from the cabinet, care being taken that the two back securing brackets at the bottom rear of the cabinet clear the chassis.
- (5) With the chassis removed, it is possible for the dial glass and rubber grommets securing same to fall out of position. Therefore, lie the cabinet face down to retain these components.

REPLACING THE CABINET.

This may be accomplished by a reversal of the removal process. Replacement of the metal thread screws in the cabinet will be facilitated if a magnetised screw driver is utilised for the purpose.

DIAL CALIBRATION.

If, due to transit or some other reason, the pointer does not indicate the correct position for tuning a given station, the position of the pointer in relation to the gang condenser can be adjusted by loosening the grub screws securing the dial drum to the gang shaft.

This operation should not be attempted unless absolutely necessary.

NOTE:

Should it be necessary at any time to replace the dial drive cord, it is important that the method of threading shown on the diagram over the page should be closely followed.

VOLTAGE ANALYSIS.

Valve Type	Plate Voltage	Osc. Plate Voltage	Screen Voltage	Bias Voltage	Heater Voltage (A.C.)
ECH4G	220	75	95	2.5	6.3
EBF2G	220	—	60	0	6.3
EL3NG	200	—	220	5.5	6.3
5Y3G	300 A.C. per plate				5.0

NOTE:

The abovementioned voltage values, with the exception of bias voltages, are measured between the socket points indicated and chassis with the receiver in the no signal condition and with the volume control at zero. Bias voltages are to be measured at the source of the voltage, as incorrect readings will otherwise be obtained. Voltages are measured with a 1,000 ohm per volt voltmeter and may vary as much as 10% from the figures quoted.

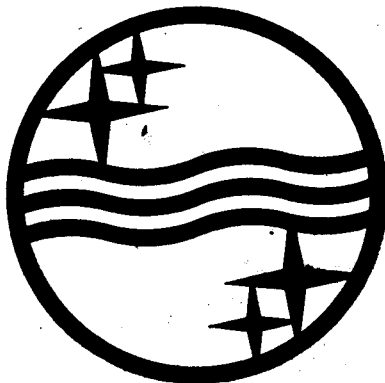
SERVICE DATA.

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM.

No. on Dial Drawing	Description	Code No.	Price
—	Back cabinet	93/269	3/6
—	Baffle, with silk	34/430	5/3
—	Bars, chromium	24/550	10/6 pr.
—	Cabinet, moulded	32/292	18/6
—	Clicker plate, wave change	72/215	2/3
3	Cord, dial drive	35/314	4d.
—	Cord, power cable	26/211	1/9
1	Drum, dial drive, moulded	34/594	2/-
—	Glass, dial, printed	33/591	5/-
—	Grommets, rubber, chassis mounting	32/311	2d.
—	Grommets, dial glass support	32/321	2d.
6	Holder, dial light	24/644	6d.
—	Knob, tuning control, metal insert	34/920	11d.

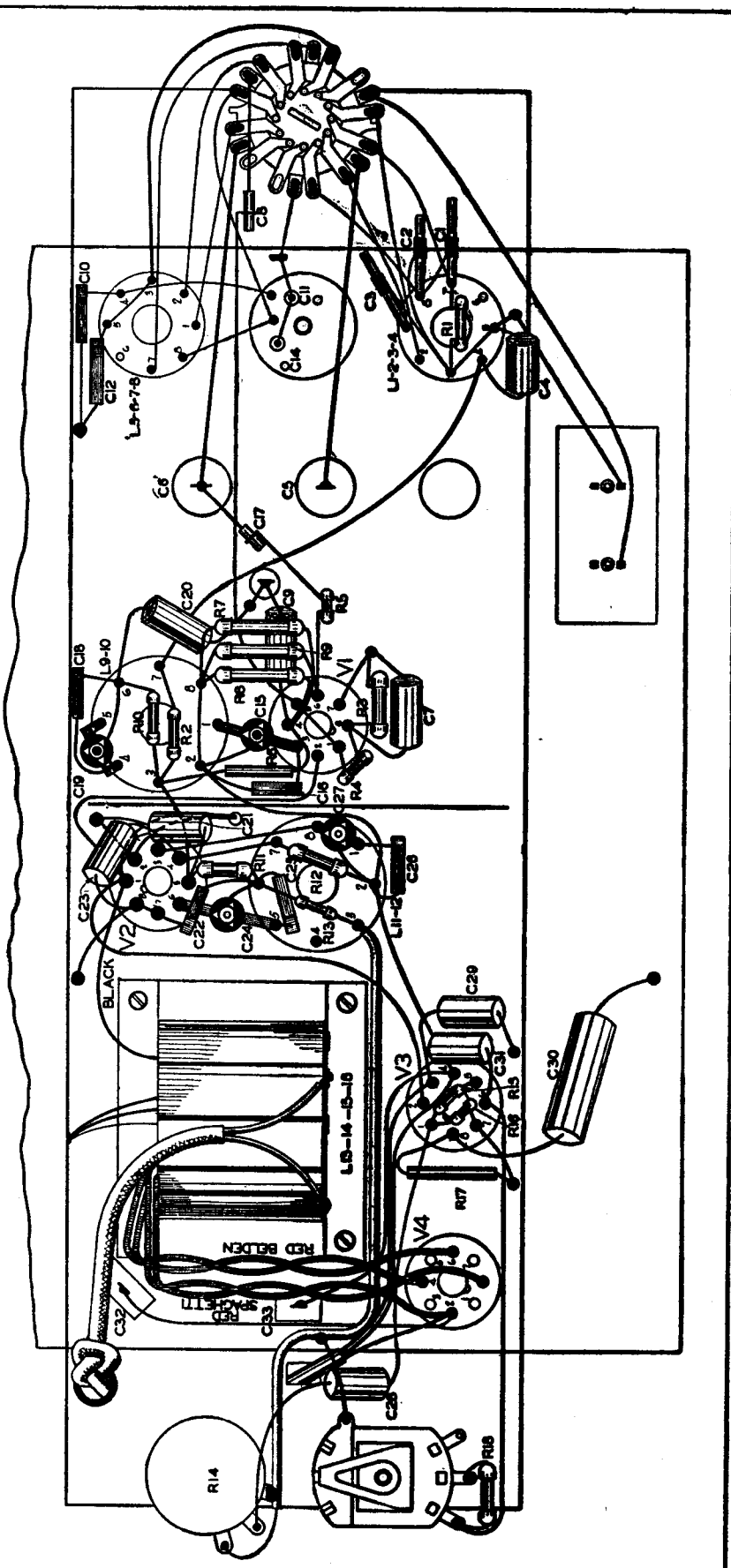
No. on Dial Drawing	Description	Code No.	Price
—	Knob, tuning control, plain	32/232	6d.
—	Lamp, dial illuminating	92/213	6d.
—	Locking ring, amphenol sockets	24/666	1d.
7	Pointer and slider bar	93/272	1/6
—	Plates, dial backing	24/472	2/- pr.
—	Silk, for baffle	35/238	2/6
—	Socket, octal, amphenol	34/521	6d.
—	Spacers, chassis mounting, brass	24/218	2d.
8	Spindle, tuning control assembly	24/530	2/3
2	Spring, dial cord tension	25/219	2d.
—	Switch section, wave change	73/411	2/-
—	Switch, tone control	93/239	2/9
—	Speaker, complete	45/360	21/-
—	Transformer, speaker output	44/313	6/-
4	Wire assembly, dial drive	26/321	6d.

PRICES QUOTED SUBJECT TO CHANGE WITHOUT NOTICE.



COMPONENT LOCATION DIAGRAM.

L	13, 14, 15, 16	8, 12	6, 6	5, 6, 7, 8, 12, 3, 4
C	33	29	22, 26, 23, 27, 18	14, 10, 3, 1
R	20	31	24, 25, 27, 21	12, 4, 11, 2, 8
V	14, 16	17, 16, 15	15, 12, 11, 4, 6, 2, 10, 3, 6, 9, 7, 5	1
	4	3	2	



SERVICE DATA.

COMPONENT PARTS.

CONDENSERS (PRICES QUOTED ARE STRICTLY NETT AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.)

No.	Value	Code No.	Price	No.	Value	Code No.	Price
C1	8 mmfd	52/521	3d.	C18	80 mmfd	52/239	6d.
C2	25 mmfd	52/515	3d.	C19	2.5 to 30 mmfd	54/313	8d.
C3	25 mmfd	52/515	3d.	C20	.01 mfd	52/332	7d.
C4	.05 mfd	52/314	7d.	C21	.05 mfd	52/314	7d.
C5	} Tuning Gang	53/319	9/11	C22	100 mmfd	52/212	7d.
C6				.01 mfd	52/332	7d.	
C7	.1 mfd	52/316	6d.	C24	2.5 to 30 mmfd	54/313	8d.
C8	100 mmfd	52/811	6d.	C25	80 mmfd	52/239	6d.
C9	.01 mfd	52/332	7d.	C26	80 mmfd	52/239	6d.
C10	290 mmfd	52/260	7d.	C27	2.5 to 30 mmfd	54/313	8d.
C11	2.5 to 30 mmfd	54/313	8d.	C28	.004 mfd	52/331	8d.
C12	.0045 mfd	52/222	11d.	C29	.004 mfd	52/331	8d.
C14	2.5 to 30 mmfd	54/313	8d.	C30	25 mfd Electro	52/416	1/3
C15	2.5 to 30 mmfd	54/313	8d.	C31	.02 mfd	52/313	8d.
C16	80 mmfd	52/239	6d.	C32	16 mfd Electro	52/432	3/9
C17	100 mmfd	52/811	6d.	C33	16 mfd Electro	52/432	3/9

RESISTORS.

No.	Value	Code No.	Price	No.	Value	Code No.	Price
R1	5,000 ohm	62/217	4d.	R10	2 megohm	62/222	4d.
R2	150,000 ohm	62/233	4d.	R11	2 megohm	62/329	5d.
R3	150 ohm	62/318	5d.	R12	100,000 ohm	62/313	5d.
R4	50,000 ohm	62/212	4d.	R13	50,000 ohm	62/212	4d.
R5	100 ohm	62/242	4d.	R14	.5 meg. pot.	63/215	3/3
R6	10 megohm	62/434	6d.	R15	50,000 ohm	62/212	4d.
R7	50,000 ohm	62/417	5d.	R16	1 megohm	62/214	4d.
R8	50,000 ohm	62/417	5d.	R17	150 ohm	64/253	6d.
R9	30,000 ohm	62/425	5d.	R18	10,000 ohm	62/323	5d.

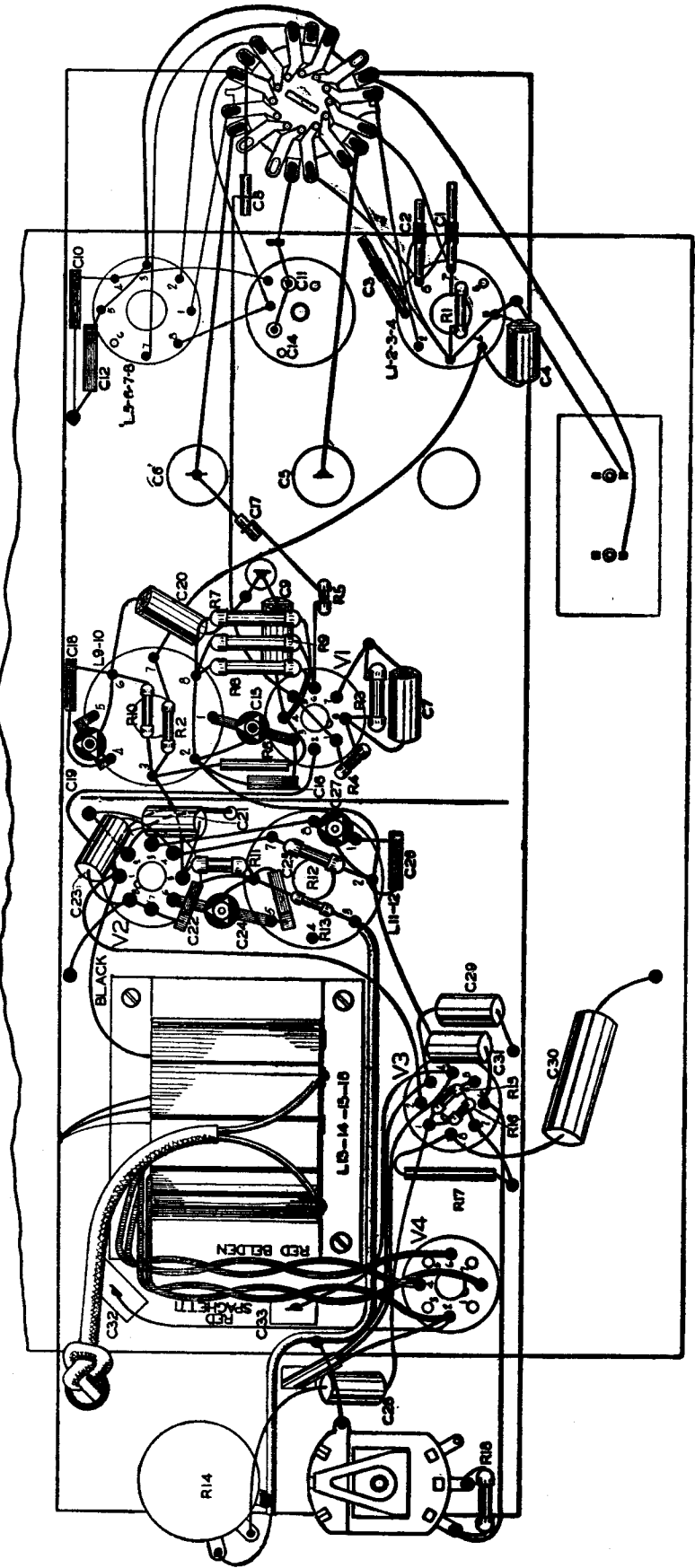
COILS.

No.	Value	Code No.	Price	No.	Value	Code No.	Price
L1, L2, L3, L4	Aerial Coil	42/729	4/3	L11, L12	2nd I.F.	42/423	7/3
L5, L6, L7, L8	Oscillator Coil	42/238	4/3	L13, L14, L15, L16,	Power Transformer	44/215	13/—
L9, L10	1st I.F.	42/319	7/3	L17, L18, L19, L20,	Speaker plus Transf.	45/360	21/—
				L17, L18	Speaker Transformer	44/313	6/—

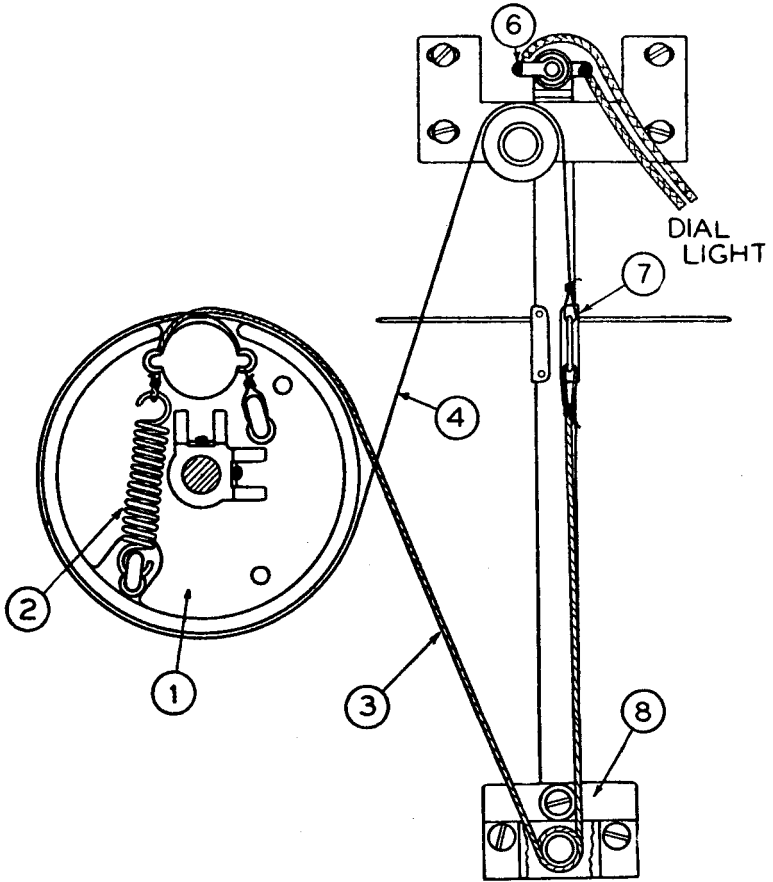
IMPORTANT: In ordering spare parts quote **CODE NUMBER ONLY**. If claiming free replacement under **GUARANTEE**, return defective parts **PROMPTLY** and quote **TYPE** and **SERIAL NUMBER** of **RADIOPLAYER**.

COMPONENT LOCATION DIAGRAM.

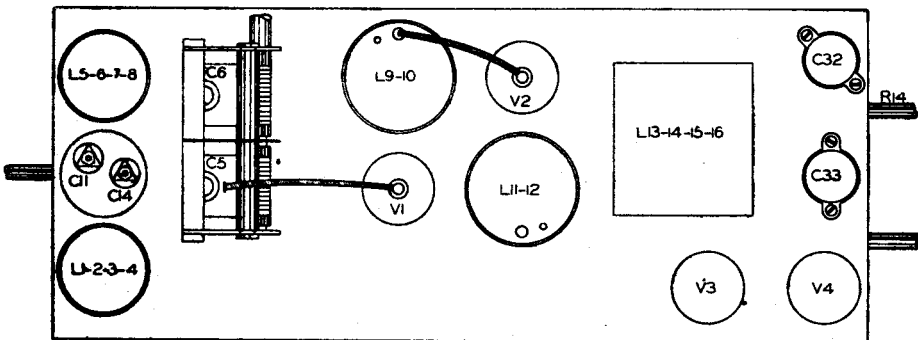
L	13, 14, 15, 16,	11, 12,	9, 10,	5, 6, 7, 8, 1, 2, 3, 4,
C	33,	28, 29,	22, 23, 27, 18,	14, 10, 3,
R	26,	31,	24, 25,	12, 4,
V	14, 16,	17, 16, 15,	13, 12, 11,	17, 5, 6,
	4,	3,	2,	11, 2, 6,
				1,



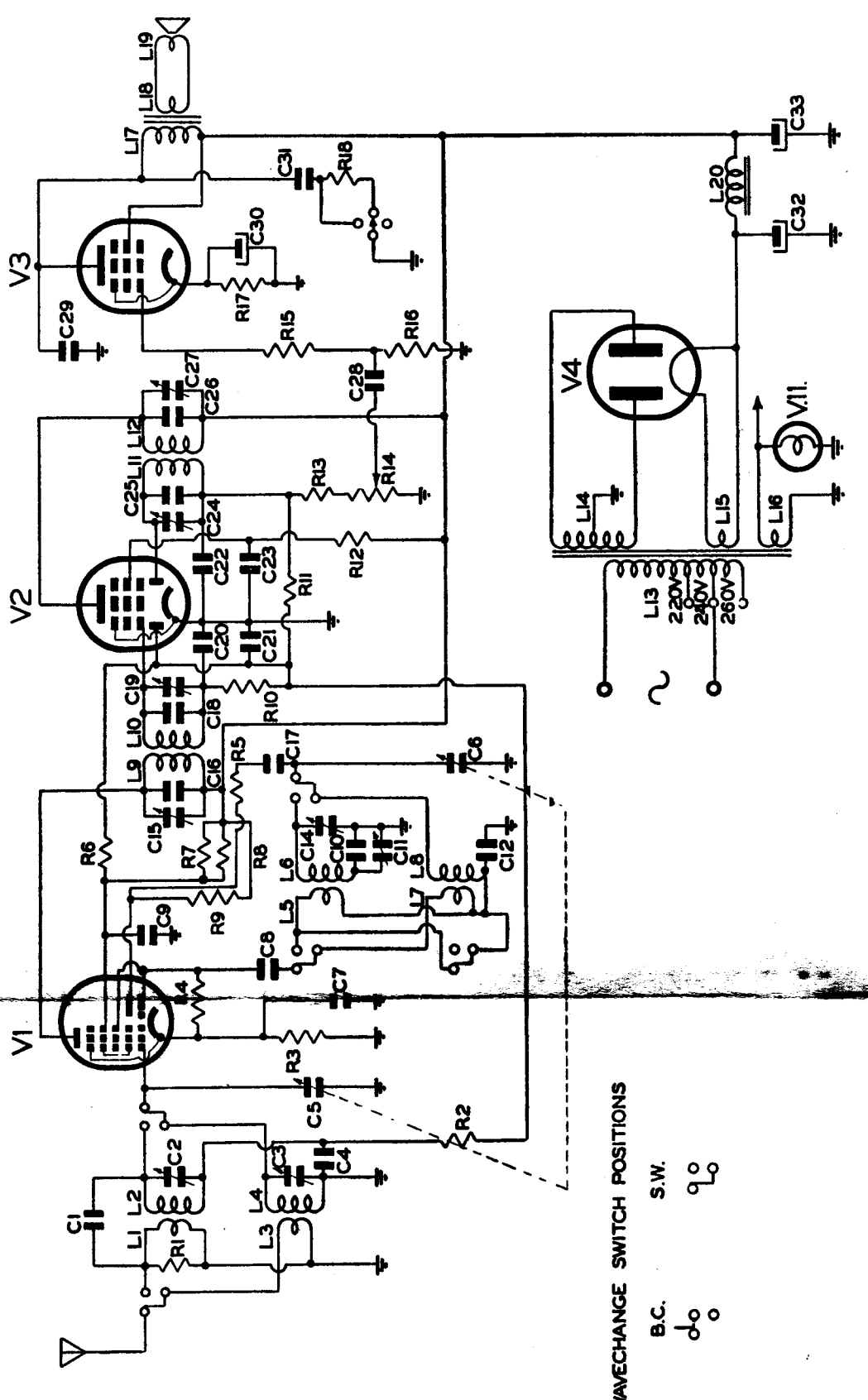
DIAL PARTS DIAGRAM



CHASSIS LAYOUT DIAGRAM.



L	1. 2. 3. 4.	5. 6. 7. 8.	9. 10.	13. 14. 15. 16.	11. 12.	17. 18. 19.
C	1. 2. 4. 5.	3. 6. 9.	10. 12. 15. 6.	18. 19. 20.	22. 24. 25.	26. 27. 29. 30. 31.
R	3.	11. 14. 16. 17.	21.	23.	28.	32. 33.
V	1. 2.	3. 4.	9. 6. 7. 8.	5. 10.	11. 12. 13. 14.	15. 16. 17. 18. 3.



WAVECHANGE SWITCH POSITIONS

B.C.

S.W.