

PHILIPS RADIOPLAYER

MODEL 1952 (Modified).

IMPORTANT.

The technical data contained in this sheet applies to Model 1952, with serial numbers greater than 2000.

For sets of lower serial number than 2001, please refer to original 1952 service data.

In ordering replacement parts, it is essential that the code number be derived from the correct data sheet in accordance with the serial number of the set. Preferably the serial number of the set concerned, as well as the code number of the part, should be specified.

VALVE TYPES.

Model 1952 of serial numbers less than 2251 employ the following valve types:

EK2C, 6U7C, 6B6G, EL3C, 5Y3G.

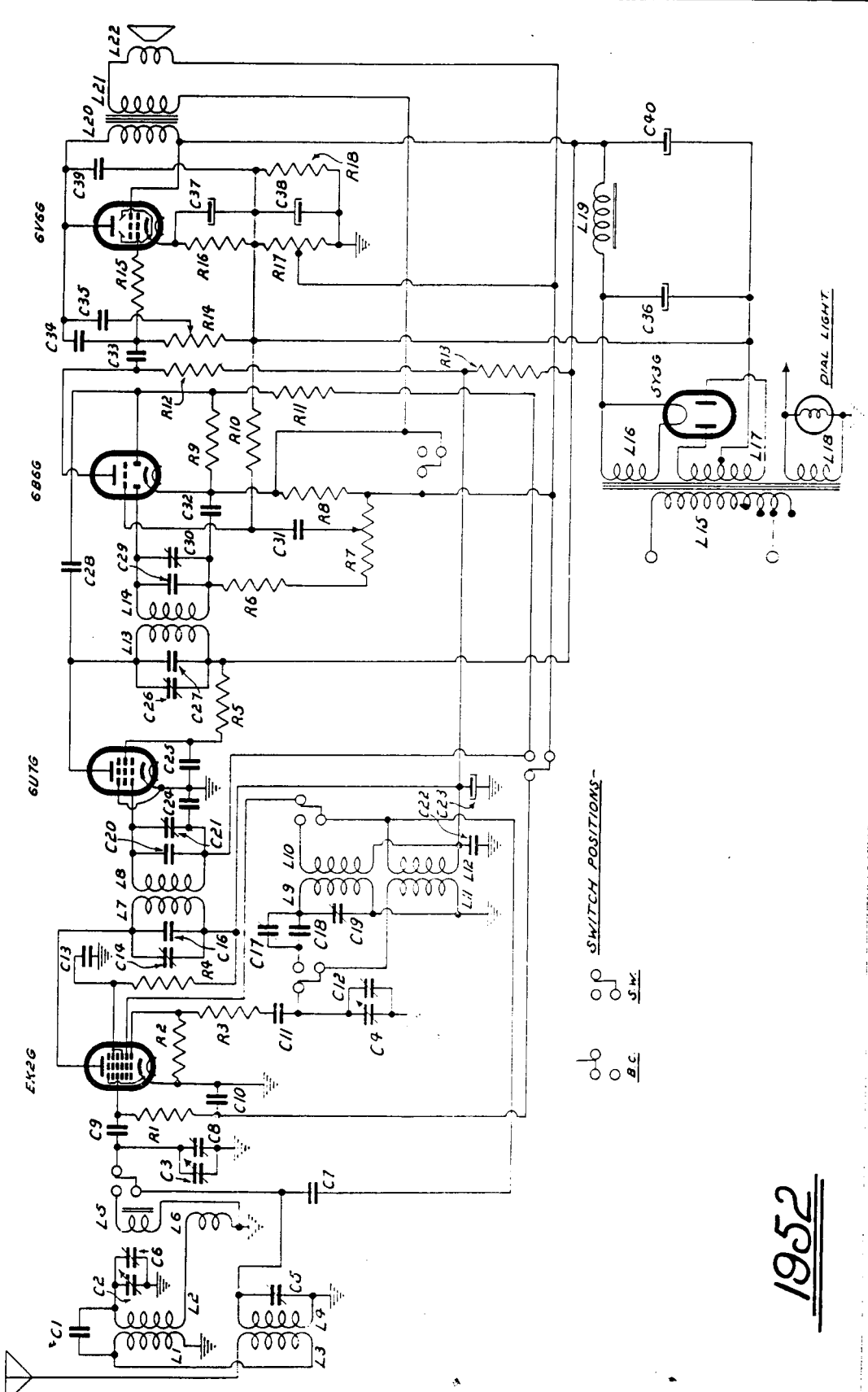
Model 1952 of serial numbers greater than 2250 substitute a 6V6G for the EL3C. See note concerning this change below component parts list.

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM.

Dial Drawing No.	Description.	Code No.	Price.	Dial Drawing No.	Description.	Code No.	Price.
1	Dial drum (Philite)	32/224	2/-	—	Wooden baffle	33/618	3/3
2	Dial tension spring	25/219	2d.	—	Baffle silk	35/217	2/-
3	Dial cord assembly	35/314	4d.	—	Cabinet back, fibre	33/924	3/6
4	Dial wire assembly	26/321	6d.	—	Philite cabinet	32/236	18/6
6	Panel lamp holder	24/644	6d.	—	Knob, with copper insert	34/553	11d.
7	Slider and pointer	24/471	1/6	—	Knob, plain	32/232	6d.
8	Slide bar, bracket and pulley	24/521	2/6	—	Output transformer	44/315	6/-
—	Mounting disc for trimmer	33/416	5d.	—	Octal socket, wafer type	34/546	4d.
—	Tuning control sprindles and mounting bracket	24/528	2/-	—	Octal socket, amphenol type	34/521	6d.
—	Rubber grommets for dial glass support	32/321	2d.	—	Power flex	26/211	1/9
—	Rubber grommets for chassis mounting	32/311	2d.	—	Rubber grommets for power flex	32/313	2d.
—	Brass spacers for chassis mounting grommets	24/218	2d.	—	Cabinet back securing bracket	23/449	3d.
—	Dial glass, printed	33/532	57/-	—	Valve shield	24/663	5d.
				—	Valve shield base	24/665	3d.
				—	Wave-change clicker plate	72/215	2/-
				—	Wave-change switch section	73/411	2/-

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

1,2,3,4	5,6	7,8,9,10,11,12	13,14,15	16,17,18	19	20,21	22, L
1	2, 6	13,14,18,17	20, 22	26	28, 30	33, 34, 35	40
3	5	11, 12, 15,18,19	21, 23,24,25	27	29,31,32	36	38
9	10	4	9	5	6, 7, 8	9, 10,11,12, 13	14, 15,16,17
9	10	9	2,3	4	5	18	18
7	8	1					
3	4						
1	2						
C							
R							



1952

SERVICE DATA.

COMPONENT PARTS.

CONDENSERS. (PRICES QUOTED SUBJECT TO ALTERATION WITHOUT NOTICE.)

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.	
C1	8 uF	52/521	3d.	C22	.01 uF	52/311	4d.	
C2	Gang condenser	53/214	10/3	C23	8 uF	52/412	2/9	
C3								
C4								
C5	0 to 35 uuF	52/524	3d.	C25	.01 uF	52/311	4d.	
C6	0 to 25 uuF	52/515	3d.	C26	2.5 to 30 uuF	54/313	8d.	
C7	Neutralising	52/527	3d.	C27	80 uuF	52/239	6d.	
C8	0 to 25 uuF	52/515	3d.	C28	15 uuF	52/526	3d.	
C9	100 uuF	52/811	6d.	C29	80 uuF	52/239	6d.	
C10	.01 uF	52/311	4d.	C30	2.5 to 30 uuF	54/313	8d.	
C11	100 uuF	52/811	6d.	C31	.01 uF	52/311	4d.	
C12	0 to 25 uuF	52/515	3d.	C32	100 uuF	52/241	6d.	
C13	.01 uF	52/311	4d.	C33	.01 uF	52/311	4d.	
C14	2.5 to 30 uuF	54/313	8d.	C34	10 uuF	52/522	3d.	
C16	80 uuF	52/239	6d.	C35	250 uuF	52/615	8d.	
C17	2.5 to 30 uuF	54/313	8d.	C36	16 uF	52/912	6/6	
C18	420 uuF	52/236	7d.	C40	8 uF			
C19	2.5 to 30 uuF	54/313	8d.	C37	25 uF	52/416	1/3	
C20	80 uuF	52/239	6d.	C38	25 uF	52/416	1/3	
C21	2.5 to 30 uuF	54/313	8d.	C39	.004 uF	52/324	7d.	

RESISTORS.

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.
R1	1 megohm	62/214	4d.	R10	1 megohm	62/214	4d.
R2	50,000 ohm	62/212	4d.	R11	1 megohm	62/214	4d.
R3	25 ohm	62/223	6d.	R12	0.25 megohm	62/415	5d.
R4	.15 megohm	62/233	4d.	R13	10,000 ohm	62/422	5d.
R5	60,000 ohm	62/413	5d.	R14	0.5 meg. Pot.	63/417	3/3
R6	50,000 ohm	62/212	4d.	R15	50,000 ohm	62/212	4d.
R7	0.5 meg. Pot.	63/215	3/3	R16	250 ohm	64/241	6d.
R8	4.5 ins. of 27 S.W.G. Eureka (on speaker)	—	—	R17	225 ohm (tapped)	64/221	6d.
R9	1 megohm	62/214	4d.	R18	250 ohm	64/241	6d.

IMPORTANT NOTICE.

Model 1952 serial numbers 2001 to 2250 use EL3C, and the following changes accordingly apply to this circuit and parts list for the serial numbers quoted, i.e., 2001 to 2250.

R16	150 ohm	64/213	5d.	C37	Omitted from circuit
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COILS.

No. on Diagram.	Description.	Code No.	Price.	No. on Diagram.	Description.	Code No.	Price.
L1, L2, L3, L4, L5, L6, L9, L10, L11, L12	Aerial Coil	42/717	4/3	L13, L14	2nd I.F. Coil	42/423	7/3
L7, L8				1st I.F. Coil	42/319	7/3	
L5, L6, L9, L10, L11, L12	Oscillator and Band-pass Coil	42/223	5/-	L15, L16, L17, L18	Power Transformer	44/215	13/-
L20, L21				Output Transformer	44/315	6/-	
L20, L21, L22	Speaker, complete with Transformer	45/336	21/-				

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

SERVICE DATA.

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM.

Dial Drawing No.	Description.	Code No.	Price.
1	Dial drum (Philite)	32/224	2/-
2	Dial tension spring	25/219	2d.
3	Dial cord assembly	35/314	4d.
4	Dial wire assembly	26/321	6d.
6	Panel lamp holder	24/644	6d.
7	Slider and pointer	24/471	1/6
8	Slide bar, bracket and pulley	24/521	2/6
—	Mounting disc for trimmer	33/416	5d.
—	Tuning control spindle and mounting bracket	24/522	2/-
—	Rubber grommets for dial glass support	32/321	2d.
—	Rubber grommets for chassis mounting	32/311	2d.
—	Brass spacers for chassis mounting grommets	24/218	2d.

Dial Drawing No.	Description.	Code No.	Price.
—	Wooden baffle	33/618	3/3
—	Baffle silk	35/217	2/-
—	Cabinet back, fibre	33/924	3/6
—	Philite cabinet	32/236	18/6
—	Knob with copper insert	34/553	11d.
—	Knob, plain	32/232	6d.
—	Loudspeaker unit (less trans.)	45/314	15/-
—	Output transformer	44/315	6/-
—	Octal socket, wafer type	34/546	4d.
—	Octal socket, amphenol type	34/521	6d.
—	Power flex	26/211	1/9
—	Rubber grommets for power flex	32/313	2d.
—	Cabinet back securing bracket	23/449	3d.
—	Valve shield with cap	24/644	5d.
—	Valve shield base	24/665	3d.
—	Wave-change clicker plate	72/215	2/-
—	Wave-change switch section	73/411	2/-

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



PHILIPS RADIOPLAYER MODEL 1952

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

SPECIFICATIONS (Subject to Alteration Without Notice.)

Voltage Rating (Power Supply)	220 to 260 volts A.C.
Tuning Range	1,550 to 540 Kc/s. 8 to 22 Mc/s.
Intermediate Frequency	472.5 Kc/s.

VALVE EQUIPMENT

Frequency Converter	EK2G Octode
I.F. Amplifier	6U7G R.F. Penthode
Demodulator, A.V.C. and Audio Amplifier	6B6G Duo-diode Triode
Power Amplifier	EL3G Power Penthode
Rectifier	5Y3G Full-wave
Dial Lamp	6.3 volt 0.3 amp. Panel Lamp

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.

Special receivers for 110 volt operation can be supplied on request. It is important that the Radioplayer should be operated with the red lead of 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	Screen Voltage	Bias Voltage	Heater Voltage (A.C.)
EK2G	180 (O.c. P.=180)	45	2	6.3
6U7G	230	90	2	6.3
6B6G	80	—	1.5	6.3
EL3G	210	230	5	6.3
5Y3G	300 volts 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 per cent. from the figures quoted.

SERVICE DATA.

COMPONENT PARTS.

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

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.
C1	8 uuF.	52/521	3d.	C17	Part of Coil 42/319		
C2	Tuning Gang	53/213	9/6	C19	0.01 uF.	52/311	4d.
C4				C20	0.01 uF.	52/311	4d.
C7				C22	Part of Coil 42/421		
C3				0-25 uuF.	52/515	3d.	C23
C5	0-10 uuF.	52/516	3d.	C24	80 uuF.	52/239	6d.
C6	2.5-30 uuF.	54/313	8d.	C25	100 uuF.	52/811	6d.
C8	2.5-30 uuF.	54/313	8d.	C26	0.01 uF.	52/311	4d.
C9	100 uuF.	52/811	6d.	C27	8 uF.	52/412	2/9
C10	100 uuF.	52/811	6d.	C28	0.01 uF.	52/311	4d.
C11	0.01 uF.	52/311	4d.	C29	16 uF.	52/912	6/6
C12	2.5-30 uuF.	54/313	8d.	C31	8 uF.		
C13	420 uuF.	52/236	7d.	C30	250 uuF.	52/214	7d.
C14	2.5-30 uuF.	54/313	8d.	C32	25 uF.	52/416	1/3
C15	80 uuF.	52/239	6d.	C33	0.004 uF.	52/324	7d.
C16	2.5-30 uuF.	54/313	8d.	C34	0.01 uF.	52/311	4d.

RESISTORS.

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.
R1	1 megohm	62/214	4d.	R10	1 megohm	62/214	4d.
R2	50,000 ohm	62/212	4d.	R11	250,000 ohm	62/415	5d.
R3	25 ohm	62/223	6d.	R12	0.5 megohm pot.	63/417	3/3
R4	10,000 ohm	62/422	5d.	R13	50,000 ohm	62/212	4d.
R5	150,000 ohm	62/414	5d.	R14	150 ohm	64/213	5d.
R6	60,000 ohm	62/413	5d.	R15	100 ohm	64/221	6d.
R7	1 megohm	62/214	4d.	R16	125 ohm		
R8	50,000 ohm	62/212	4d.	R17	4.5 inches of 27 S.W.G. Eureka wire		
R9	0.5 megohm pot.	63/215	3/3				

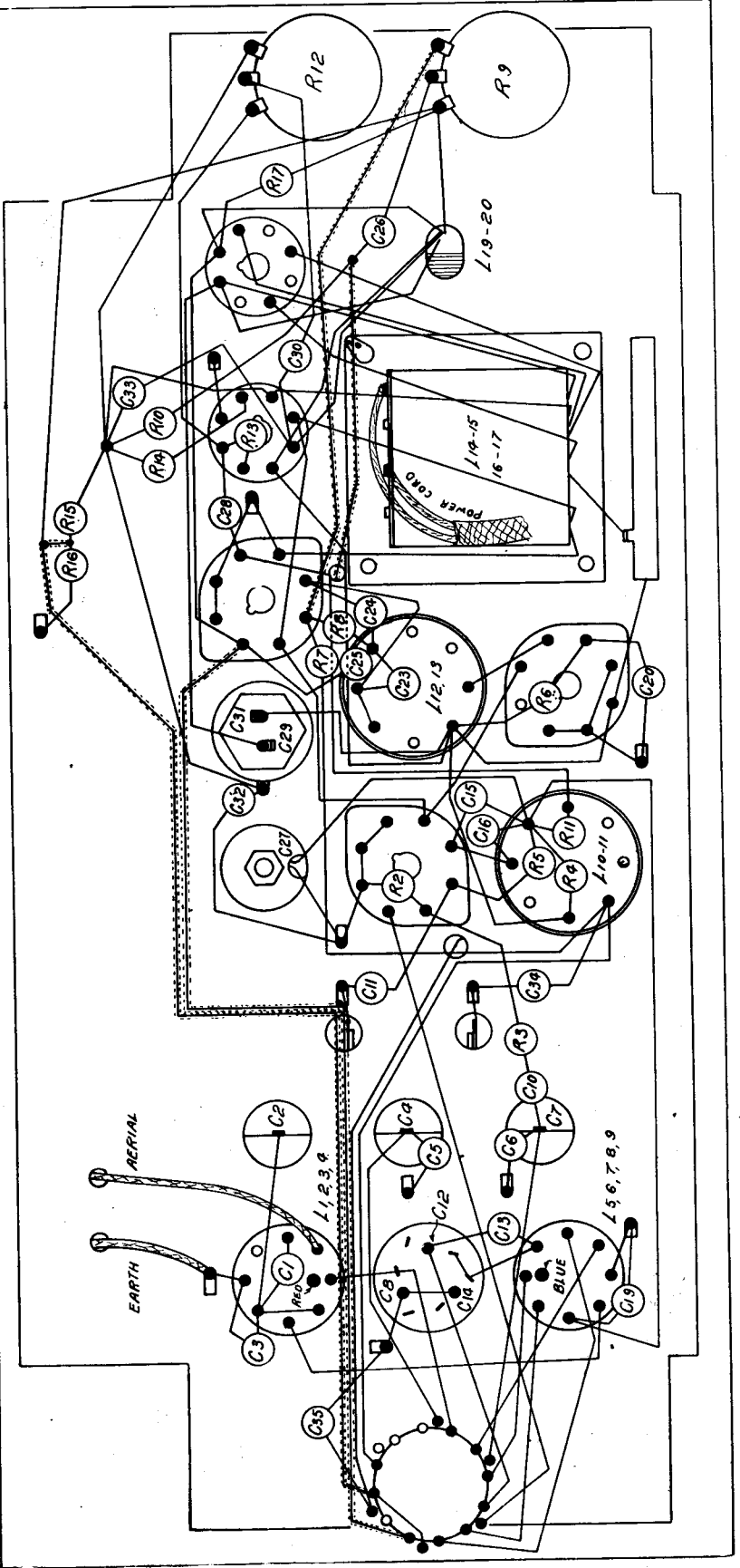
COILS.

No. on Diagram.	Value.	Code No.	Price.	No. on Diagram.	Value.	Code No.	Price.		
L1	30 ohm	42/712	4/3	L12	8 ohm	42/421	7/3		
L2	4 ohm			Aerial Coil	L13			8 ohm	
L3					Oscillator and band pass coil	L14	Power Transf.	44/215 (240v.)	13/-
L4						42/216			
L5	3.5 ohm	42/318	7/3	L16	Speaker, less Transformer			45/314	15/-
L6	2.5 ohm			L17		Output Transformer	44/315		
L7	8 ohm	1st I.F.	L18	1500 ohm	45/314			15/-	
L8			8 ohm	42/318		7/3	L21		0.5 ohm
L9	8 ohm	42/318			7/3		L19	600 ohm	44/315
L10			8 ohm	42/318		7/3	L20	0.5 ohm	

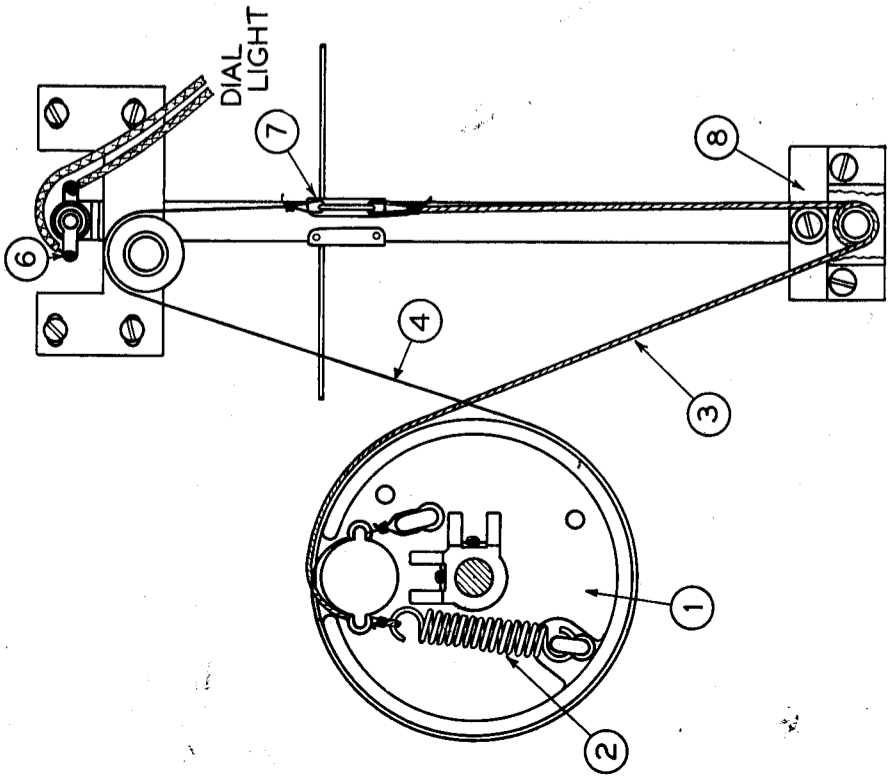
IMPORTANT: In ordering spare parts quote **CODE NUMBER ONLY**. If claiming free replacement under **GUARANTEE**, return defective parts **PROMPTLY** and quote **TYPE** and **SERIAL NUMBER** of **RADIOPLAYER**.

COMPONENT LOCATION DIAGRAM.

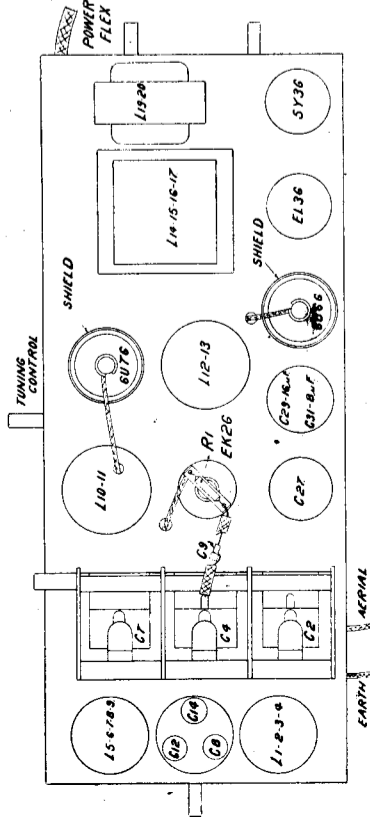
L	12, 3, 4, 5, 6, 7, 8, 9	10, 11	12, 13	14, 15, 16, 17	19, 20
C	1, 19, 14, 8, 1, 13, 12, 5, 6, 2, 4, 7, 10	11, 9, 9	2, 7, 4, 5, 11	2, 6, 17, 17	2, 6, 26
R	3, 35	3	6, 7, 8	16, 17	9, 12, 17



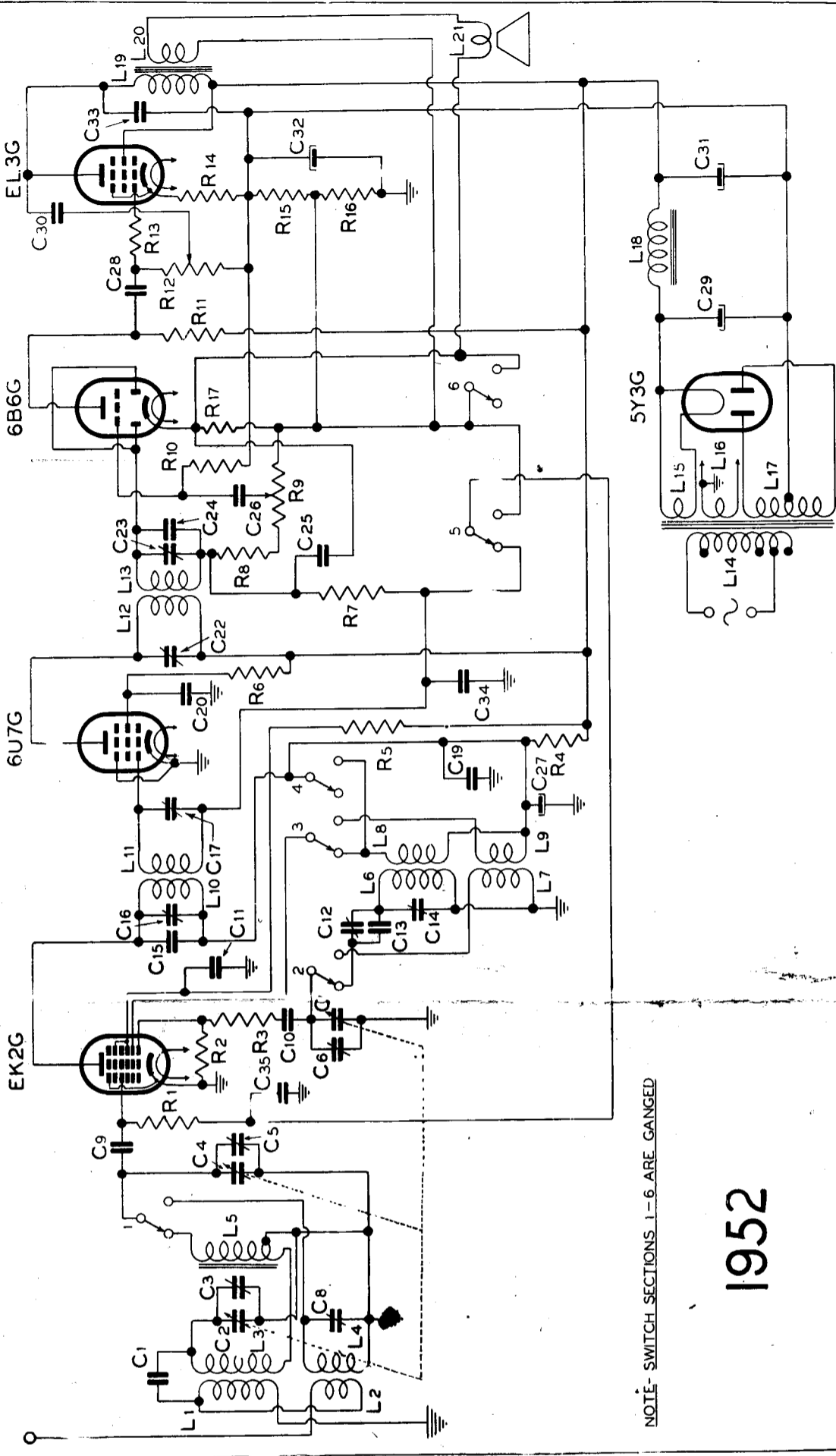
L	1.2	3.4	5	6.7	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100					
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
R	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100



DIAL PARTS DIAGRAM

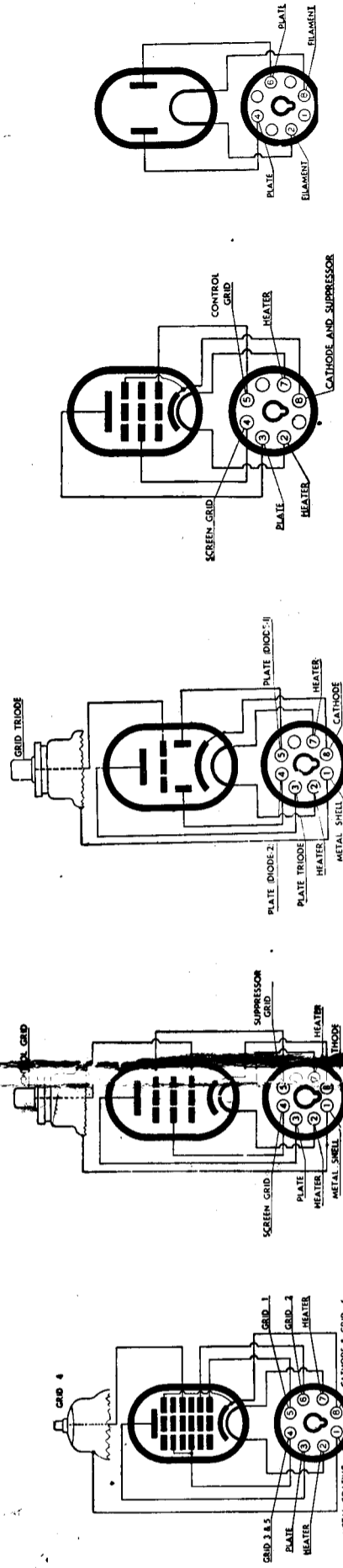


CHASSIS LAYOUT DIAGRAM



NOTE- SWITCH SECTIONS 1-6 ARE GANGED

1952



EK2G

6B6G

EL3G

5Y3G