

PHILIPS RADIOPLAYER

MODEL 1052

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	540-1,520 kc/s. 8-22 Mc/s. (37.5-13.5 metres)
Intermediate Frequency	472.5 kc/s.

VALVE EQUIPMENT

Frequency Converter	EK2	Octode
I.F. Amplifier	6D6	R.F. Penthode
A.V.C. Demodulator, and Audio Amplifier	75	Duo-diode Triode
Power Amplifier	EL3	Power Penthode
Rectifier	80	Directly Heated Rectifier
Dial Lamp	6.3 volt	0.3 amp. Panel Lamp

INSTALLATION. Full instructions for the installation of Model 1052 are contained in the instruction book supplied with each Radioplayer.

VOLTAGE ADJUSTMENT.

The receiver may be adapted for A.C. mains of 220 to 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 (See Diagrams 4 and 5).

- (1) Disconnect power plug and remove back of the cabinet.
- (2) Remove all knobs. The knobs on the front of the cabinet may be removed by unscrewing grub screws which are accessible through holes in the bottom of the cabinet. The grub screws in the knobs at the sides of the cabinet are accessible through slots at the rear.
- (3) Release the clamping screws (A) of the tension adjustment pulley (13).
- (4) Disconnect the dial wire (3) from the pointer at (B) and remove the wire from the pulleys (11 and 13).
- (5) Remove the bolts holding the front of the cabinet to the base board.
- (6) Remove the screws at the rear holding the top corners of the two chassis to the cabinet.
- (7) Release the clamps (20) holding the back of the cabinet to the base board.
- (8) The cabinet may now be withdrawn from the base board.

REPLACING THE CABINET.

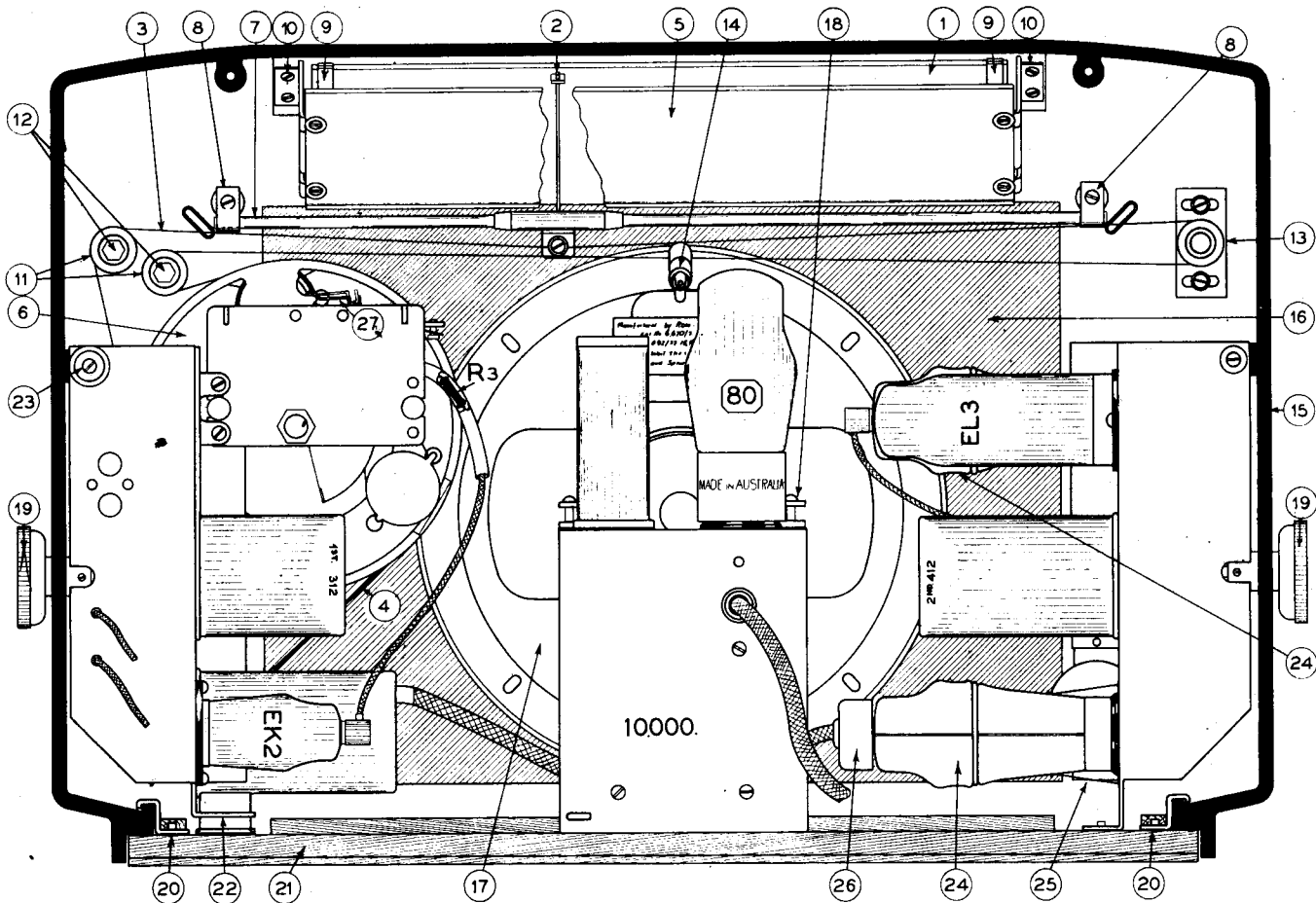
- (1) Thread the dial wire on to the drum as shown in diagram 4, the wire being temporarily held in place by the metal clips (G). (See diag. 4.) These clips are available on request from any Philips Office or the Philips representative for your territory.
- (2) Slide the cabinet on to the base board and replace the various screws.
- (3) Thread the dial wire on to the pulleys (11 and 13).
- (4) Take up the slack with the wire tension adjustment pulley (13).
- (5) Remove the metal clips (G).
- (6) Set the tension adjustment pulley (13) so that the tension springs (27) are mid-way between the rim of the drum and the limiting peg (K).

NOTE.—Should it be necessary at any time to replace the dial drive cord (4) it is important that the method of threading the cord on the drive spindle should be closely followed, that is the cord should take the form of a left-hand thread on the spindle. This is clearly illustrated in the diagram.

ALIGNMENT.

Due to the special design of this Radioplayer, alignment in the field is not possible. In the event of alignment troubles, it is necessary to return the receiver to the nearest Philips Office for attention. Every precaution has been taken to maintain the correct alignment by employing semi-fixed capacity trimmers. These trimmers will maintain the factory adjustment except in the case of actual mechanical damage to the tuned circuits.

SERVICE DATA.



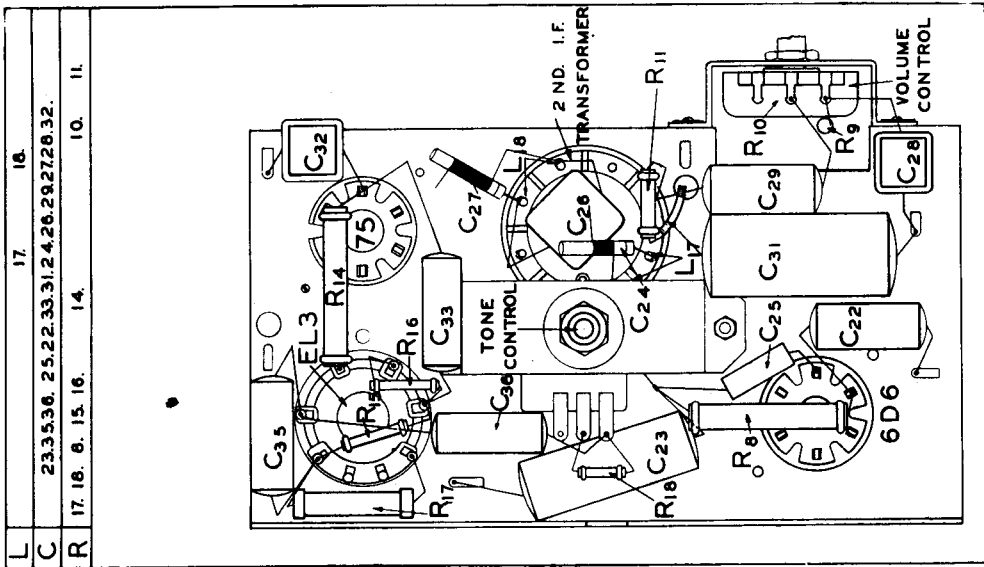
Diag. 5.

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM

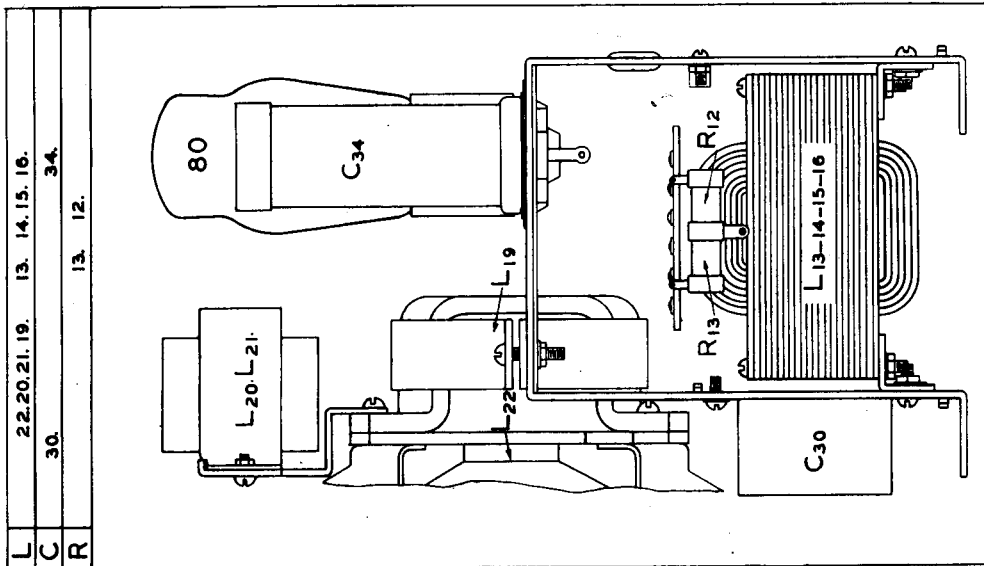
Position.	Code No.	Price.	Position.	Code No.	Price.
1 Dial Glass	33/511	4/4	19 Tuning knob	32/213	6d.
2 Dial Pointer	24/411	5d.	20 Cabinet clamps	24/423	2½d.
3 Dial Wire	26/311	2d.	21 Base board	33/611	2/4
4 Dial Drive Cord	35/311	2d.	22 Rubber brush for chassis mounting	24/512	3d.
5 Celluloid dial backing	34/211	4d.	23 Rubber grommet for R.F. chassis	32/311	1/6
6 Bakelite dial drum	32/215	2/7½	24 Goat valve shield	24/615	4½d.
7 Dial slide rod	24/225	1/7	25 Earth clip for goat valve shield	24/616	2d.
8 Dial slide rod clamp	24/413	3d.	26 Grid clip with lead	26/212	1/-
9 Rubber dial bands	32/317	1d.	27 Dial wire tension spring	25/311	1/3
10 Dial brackets	24/414	9d.	Dial cord	35/311	4d.
11 Dial pulley	24/211	4d.	Dial cord tension spring	25/211	2d.
12 Dial pulley bearings	24/212	4d.	Tone control switch	74/412	1/3
13 Wire tension adjustment pulley	24/513	5d.	4-Pin Amphenol socket	34/513	4½d.
14 Panel lamp holder	24/623	2d.	6-Pin Amphenol socket	34/515	4½d.
15 No. 10 Cabinet	—	—	"P" Type valve socket	34/516	4d.
16 Speaker baffle and silk	34/412	2/-	Power flex	26/211	1/1
17 Speaker	45/342	17/-	Complete coil unit	46/212	25/6
18 Speaker clamp	23/413	3d.			

SERVICE DATA.

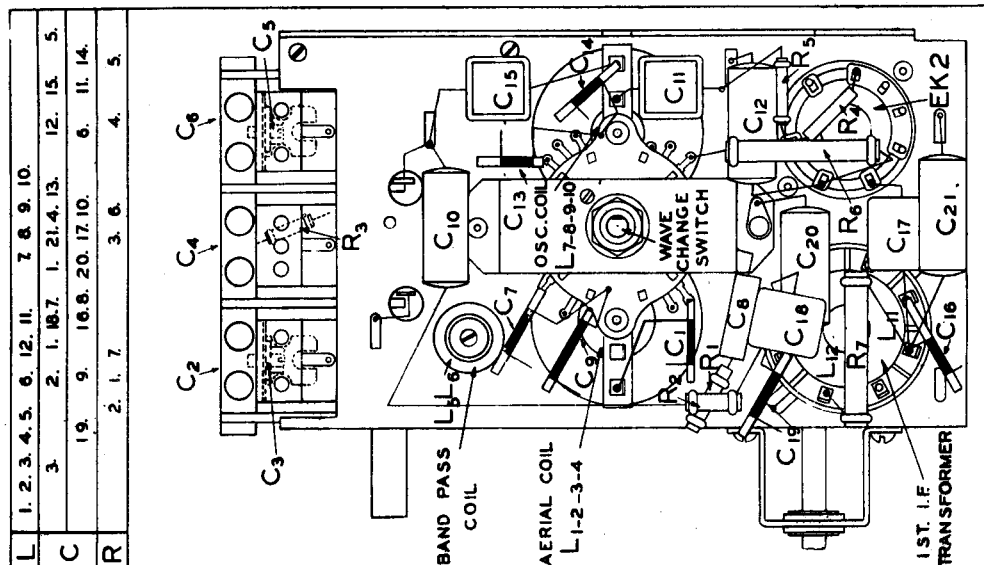
COMPONENT LOCATION DIAGRAMS (See also back page)



Diag. 1.



Diag. 2.



Diag. 3.

SERVICE DATA.

CONDENSERS (PRICES QUOTED ARE STRICTLY NETT.)

No.	Value.	Code No.	Price.	No.	Value.	Code No.	Price.		
C1	6uuF	52/513	3d.	C19	30 uuF	52/512	7d.		
C2	15-385uuF	} Tuning Gang	9/6	C20	0.05 uF	52/314	7½d.		
C3	5-30 uuF			C21	0.05 uF	52/314	7½d.		
C4	15-385 uuF			C22	0.05 uF	52/314	7½d.		
C5	3-15 uuF			C23	0.1 uF	52/317	7½d.		
C6	15-385 uuF			C24	30 uuF	52/512	7d.		
C7	25 uuF			52/515	3d.	C25	80 uuF	52/612	7½d.
C8	0.0045 uF			52/222	11d.	C26	80 uuF	52/612	7½d.
C9	25 uuF			52/515	3d.	C27	30 uuF	52/512	7d.
C10	0.05 uF	52/314	7½d.	C28	0.0001 uF	52/212	6½d.		
C11	0.0001	52/212	6½d.	C29	0.02 uF	52/313	7½d.		
C12	0.05	52/314	7½d.	C30	.8 uF	52/419	2/8½		
C13	25 uuF	52/515	3d.	C31	25 uF	52/416	1/2½		
C14	60 uuF	52/514	3d.	C32	0.0001 uF	52/212	6½d.		
C15	320 uuF	52/611	7½d.	C33	0.004 uF	52/324	7½d.		
C16	30 uuF	52/512	7d.	C34	32 uF	52/417	3/4		
C17	80 uuF	52/612	7½d.	C35	0.006 uF	52/326	7½d.		
C18	65 uuF	52/613	7½d.	C36	0.02 uF	52/313	7½d.		

RESISTORS

No.	Value.	Code No.	Price.	No.	Value.	Code No.	Price.
R1	0.5M ohm	62/216	3½d.	R10	5M ohm Vol. Cont.	62/211	3/3
R2	0.1M ohm	62/215	3½d.	R11	1M ohm	62/214	3½d.
R3	50 ohm	62/211	3½d.	R12	100 ohm	} 64/212	6d.
R4	50,000 ohm	62/212	3½d.	R13	100 ohm		
R5	50 ohm	62/211	3½d.	R14	250,000 ohm	62/415	3
R6	150,000 ohm	62/414	4½d.	R15	1M ohm	62/214	3
R7	5,000 ohm	62/412	4½d.	R16	100,000 ohm	62/215	3½
R8	60,000 ohm	62/413	4½d.	R17	150 ohm	64/213	5d.
R9	1M ohm	62/214	3½d.	R18	10,000 ohm	62/213	3½d.

COILS

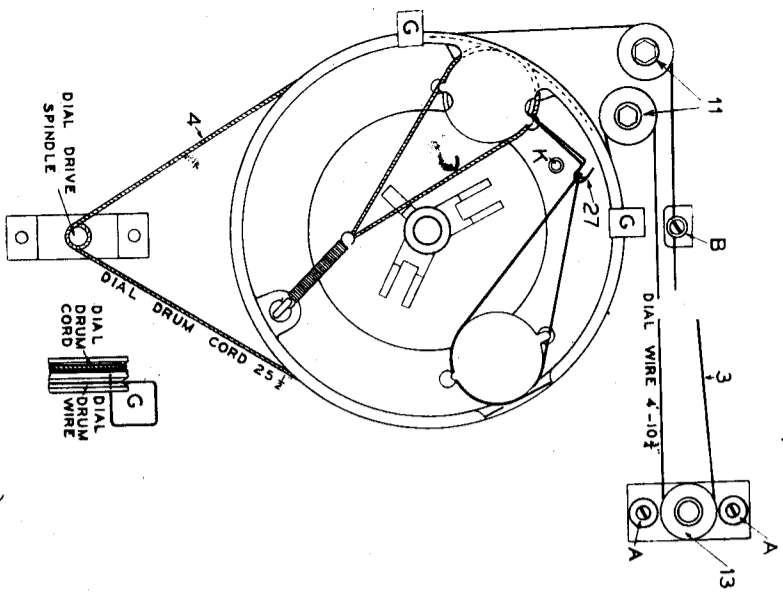
No.	Value.	Code No.	Price.	No.	Value.	Code No.	Price.		
L1	20 ohm	} Aerial Coil	3/6	L11	8.5 ohm	} 1st I.F.	42/312		
L2	2.5 ohm			L12	8.5 ohm				
L3	—			} Band Pass Coil	42/611	L13	50 ohm	} Power Transf.	44/222
L4	—					L14	—		
L5	3.3 ohm	L15	—						
L6	—	} Osc. Coil	42/211	L16	500 ohm	} 2nd I.F.	42/412		
L7	2.5 ohm			L17	8.5 ohm				
L8	0.5 ohm	} Speaker	2/9	L18	8.5 ohm	} 45/342	16		
L9	—			L19	1,500 ohm				
L10	—			L20	650 ohm				
				L21	0.5 ohm				
				L22	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.

VOLTAGE ANALYSIS

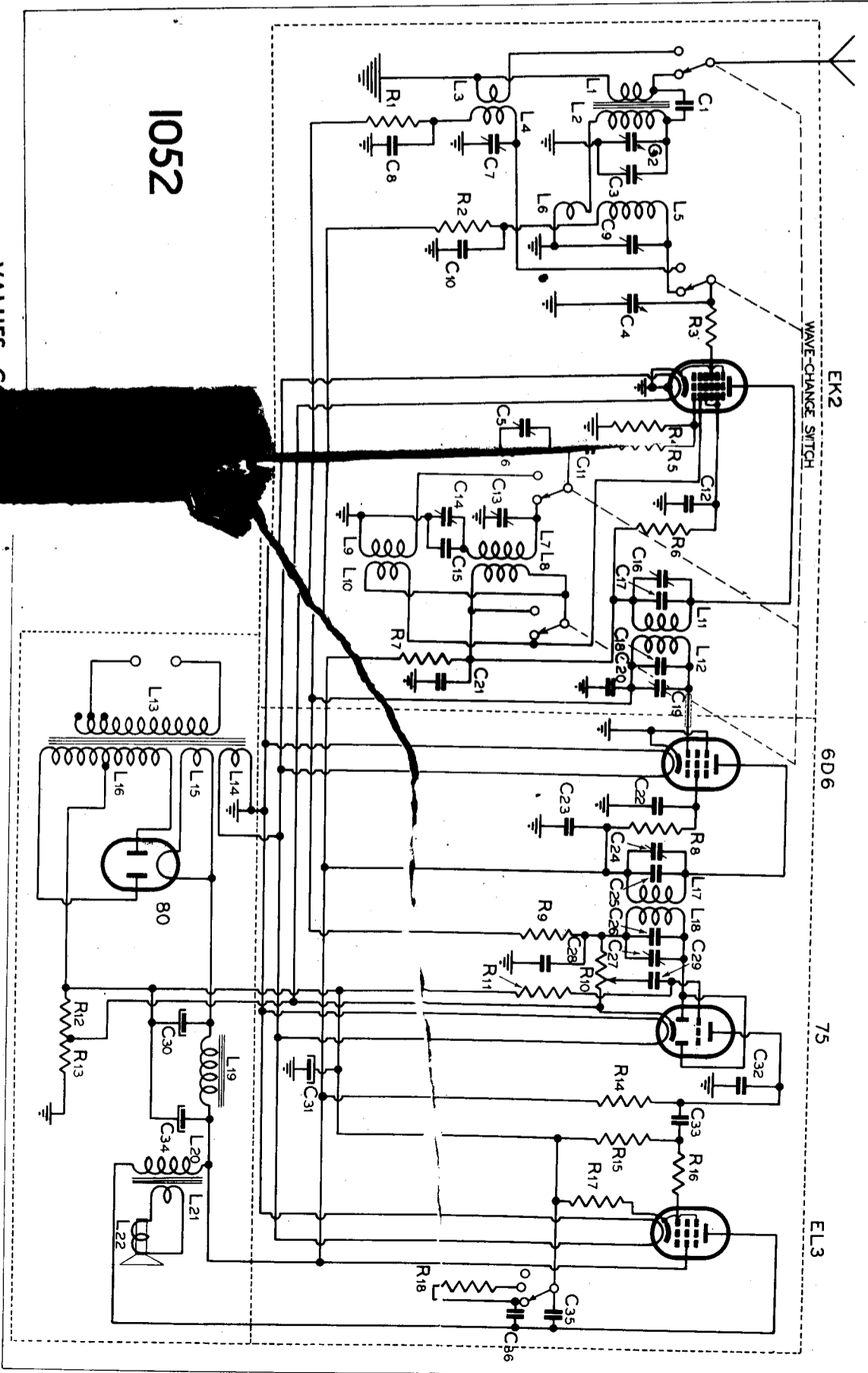
Valve Type	Plate Voltage	Plate Current	Screen Grid Voltage	Bias Voltage	Heater Voltage A.C.
EK2	205 Osc. Plate C2 = 215	0.8	45	Across R13 -1.6	6.3
6D6	215	8.0	85	Across R13 -1.6	6.3
75	100	0.3	—	Across R12 -1.6	6.3
EL3	190	33	215	Across R17 6.0	6.3
80	—	—	—	—	5

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.



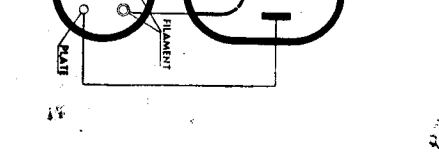
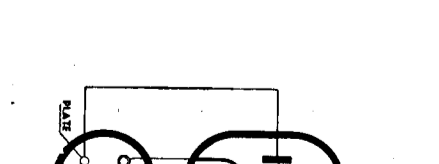
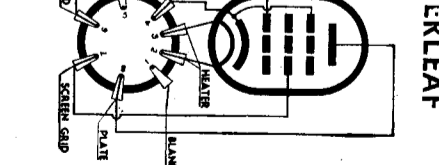
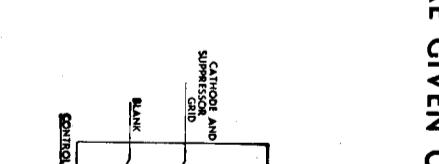
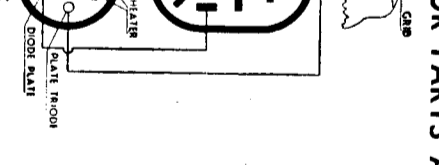
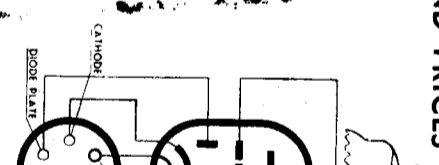
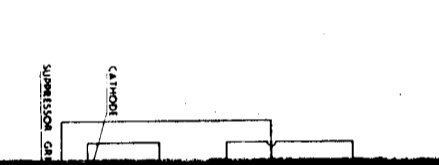
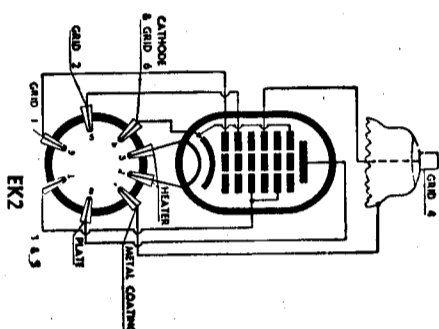
Diag. 4 (back view).

13	24	56	910	4	3	5	11	6	12	13	14	15	16	17	18	19	20	21	22		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22



VALUES, C

VALUES AND PRICES FOR PARTS ARE GIVEN OVERLEAF



SOCKET VIEWED FROM BOTTOM OF BASE.