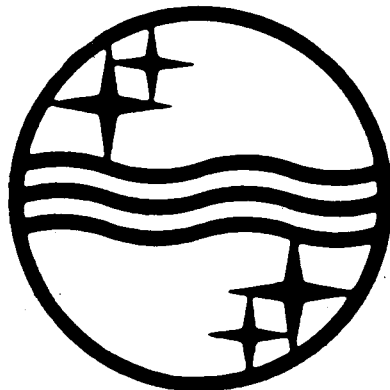


SERVICEDATA

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM

No. on Dial Diagram	Description	Code No.	Price	No. on Dial Diagram	Description	Code No.	Price
14	Backing, dial celluloid	34/218	2/-	—	Lamp, pilot	92/252	6d.
—	Back, cabinet	34/148	5/6	—	Lamp, fuse	92/215	6d.
—	Badge, Philips Emblem	24/447	1/-	—	Plate, clicker, wave-change	72/212	2/3
—	Bands, rubber, dial glass	33/316	3d.	1	Pointer, assembly, complete	24/524	2/6
—	Base, valve shield	24/665	3d.	—	Ring, locking, Amphenol socket ..	24/666	1d.
13	Bracing strip, dial celluloid	24/491	6d.	2	Rod, slider supporting	24/243	1/6
7 & 8	Bracket, dial mounting	23/453	6d.	—	Shield, valve, plus cap	24/663	7d.
16	Bracket, gang, cable support	93/295	1/6	—	Silk, baffle	35/232	4/6
6	Bracket, slide rod adjusting	24/482	6d.	—	Socket, 5 pin, Amphenol	34/514	5d.
—	Bracket, tuning control	24/442	6d.	—	Socket, 7 pin, Amphenol	34/542	6d.
—	Cabinet, No. 34	34/113	£5	—	Socket, octal, Amphenol	34/521	6d.
—	Cable, battery	26/236	4/9	—	Socket, octal, wafer	34/546	4d.
—	Cap, tension, spring	24/323	2d.	—	Socket, fuse lamp	34/901	5d.
—	Card, knob indicating	33/221	2/-	—	Spacers, brass, chassis mounting	24/218	2d.
—	Clip, grid	24/629	1d.	—	Spindle, tuning control	24/242	9d.
11	Cord, dial drive	35/313	5d.	10	Spring, cord tension	25/211	2d.
9	Drum, dial drive	34/593	2/8	4	Spring, dial wire	25/218	3d.
—	Escutcheon, bakelite moulded	32/256	2/11	—	Switch, tone control	93/243	2/9
15	Glass, dial printed	35/414	6/3	—	Switch, section, wave-change	73/411	2/-
—	Grommets, chassis mounting, rubber	32/311	2d.	2, A, 12, 13, 14 & 15—Wire Assembly, dial drive	26/323	3/-	
—	Knobs, control	32/229	7d.				

(PRICES QUOTED SUBJECT TO ALTERATION WITHOUT NOTICE)



RADIOPLAYER MODEL 3440

BATTERY OR BATTERY VIBRATOR OPERATED

SPECIFICATIONS

(Subject to Alteration without Notice)

TUNING RANGES

1610 to 540 Kc/s.,
6 to 18 Mc/s.

INTERMEDIATE FREQUENCY

472.5 Kc/s.

BATTERY EQUIPMENT

For Battery Operation:

- 1—2-volt accumulator (100 amp. hrs. capacity).
- 3—45-volt triple-capacity "B" batteries.

For Battery Vibrator Operation (with Type 330, 220 or 148 Vibrator Unit):

- 1—6-volt accumulator (100 amp. hrs. capacity).

DIAL LAMP

- For "B" Batt. Op.: 2.5 volt, 0.3 amp.
- For Batt. Vib. Op.: 6.3 volt, 0.1 amp.

BATTERY CONSUMPTION

"B" Battery Operation:

"A" Battery: 0.44 amp. approx.

"B" Battery: 15 mA. approx.

Battery Vibrator Operation (with Type 330, 220 or 148 Vibrator):

"A" Battery: 1.0 amp. at 6 volts.

VALVE EQUIPMENT

Frequency Converter	1C7G (V.1)
I.F. Amplifier	1D5GP (V.2)
Demodulator and 1st Audio	1K7G (V.3)
Power Penthode	KL4G (V.4)

INSTRUCTIONS

Full instructions for the installation of Model 3440 (battery operation) are contained in the instruction book supplied with each Radioplayer.

VIBRATOR OPERATION

Model 3440 is intended for operation either with "B" batteries or, alternatively, with Philips Model 330, 220 or 148 Vibrator Unit.

If it is desired to use the 330, 220 or 148 Vibrator Unit in place of "B" batteries, reference should be made to the instructions accompanying the vibrator unit.

The switch on the 330 or 220 Unit must be adjusted to position "B," and on the 148 Unit to position 6510, to adapt the unit to a 3440 Receiver.

It is also necessary to change the dial panel lamp to a 6.3 volt 0.1 amp. type.

FUSE LAMP

A fuse lamp is fitted in series with the "B" battery negative lead as a measure of protection against valve burn-outs. The set will not operate if the lamp is fused or not properly screwed into the socket. The correct replacement fuse lamp is of the 2.5 volt 0.1 amp. or 0.3 amp. type.

REMOVING THE CHASSIS

- (1) Remove fibre back.
- (2) Unscrew knobs at front of cabinet.
- (3) Withdraw battery cable and loudspeaker plugs from chassis.
- (4) Remove dial mechanism by withdrawing the four screws securing the dial bracket at either end of the dial. Carefully lay mechanism on top of the chassis, with due attention to the fact that the flexible cable should not be kinked.

(5) Remove four chassis to baseboard securing bolts.

(6) Slide chassis out of cabinet.

(7) Replacing the chassis may be accomplished by a reversal of the abovementioned withdrawal procedure.

DIAL CALIBRATION

If the pointer does not indicate the correct position for a given station, the position of the pointer in relation to the gang condenser may be adjusted by loosening the clamp screw on the pointer slider and moving the slotted wire tension guide in relation to the pointer slider. After adjustment, tighten the clamping screw securely.

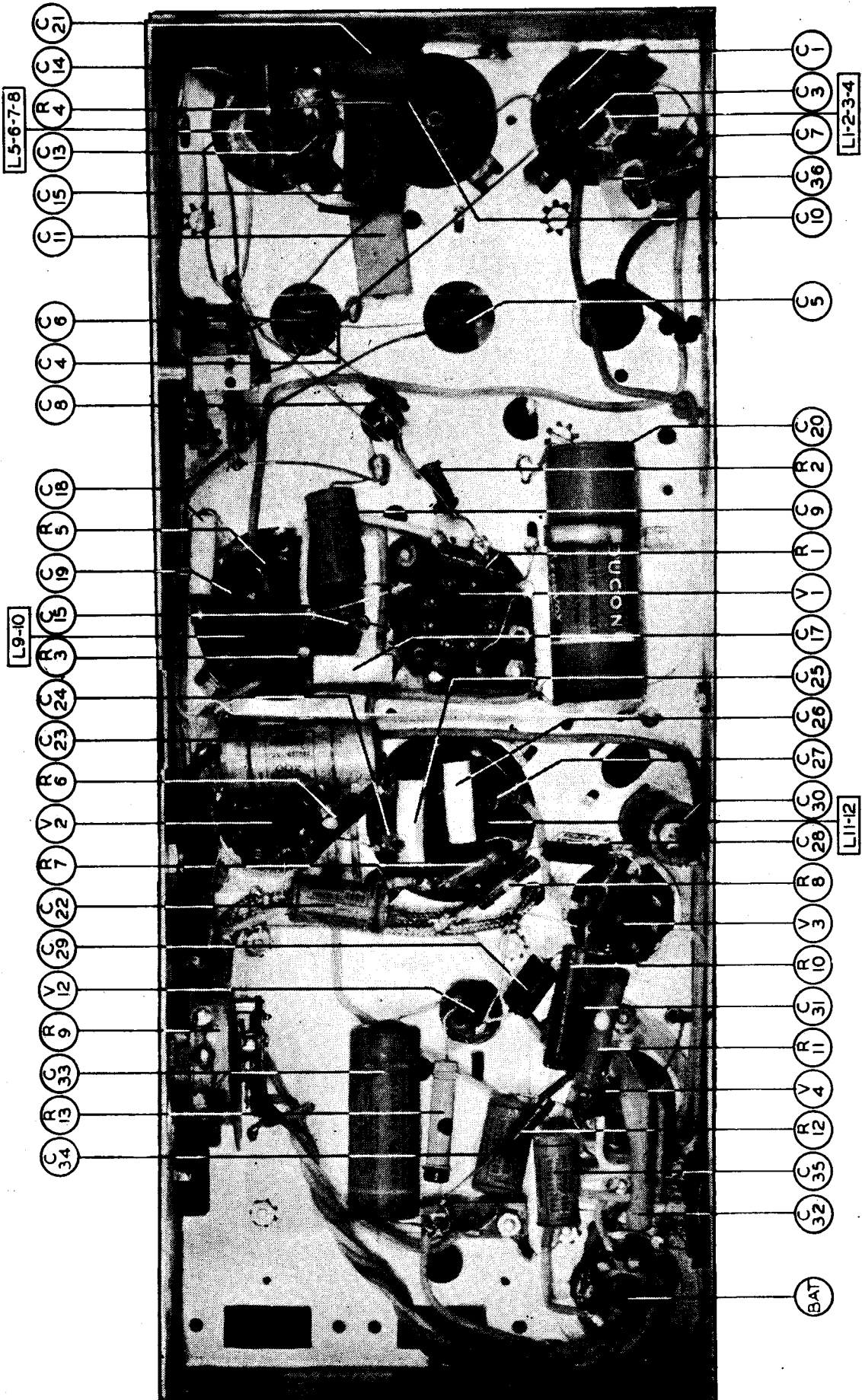
VOLTAGE ANALYSIS

Valve Type	Plate		Osc. Plate		Screen		Bias	
	BC	SW	BC	SW	BC	SW	BC	SW
1C7G	120	100	120	100	50	47		
1D5GP	127	127			57	57		
1K7G	33	33			20	20		
KL4G	125	125			127	127		—6

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 1000 ohm per volt voltmeter and may vary as much as 10 per cent. from the figures quoted.

COMPONENT LOCATION DIAGRAM



SERVICE DATA

COMPONENT PARTS

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

No.	Value	Code No.	Price	No.	Value	Code No.	Price
C1	15 mmfd Trimmer	53/101	3d.	C21	.01 mfd	52/332	7d.
C3	30 mmfd Trimmer	52/536	3d.	C22	.01 mfd	52/332	7d.
C4	1 mmfd	52/527	3d.	C23	.1 mfd	52/317	11d.
C5/6	Tuning Condenser	53/318	9/11	C24	30 mmfd Trimmer	52/536	3d.
C7	.05 mfd	52/315	11d.	C25	80 mmfd \pm 7 mmfd	52/239	6d.
C8	100 mmfd	52/811	6d.	C26	80 mmfd \pm 7 mmfd	52/239	6d.
C9	.01 mfd	52/332	7d.	C27	30 mmfd Trimmer	52/536	3d.
C10	2-30 mmfd	54/313	8d.	C28	100 mmfd	52/212	7d.
C11	340 mmfd \pm 7 mmfd	52/257	7d.	C29	100 mmfd	52/212	7d.
C13	125 mmfd Trimmer	52/535	6d.	C30	.05 mfd	52/315	11d.
C14	.0035 mfd \pm 5%	52/258	11d.	C31	.01 mfd	52/332	7d.
C15	.05 mfd	52/315	11d.	C32	10 mmfd	52/531	3d.
C16	30 mmfd Trimmer	52/536	3d.	C33	25 mfd Electrolytic	52/416	1/3
C17	80 mmfd \pm 7 mmfd	52/239	6d.	C34	.01 mfd	52/332	7d.
C18	80 mmfd \pm 7 mmfd	52/239	6d.	C35	.002 mfd	52/333	7d.
C19	30 mmfd Trimmer	52/536	3d.	C36	80 mmfd \pm 7 mmfd	52/239	6d.
C20	40 mfd Electrolytic	52/438	2/9				

RESISTORS

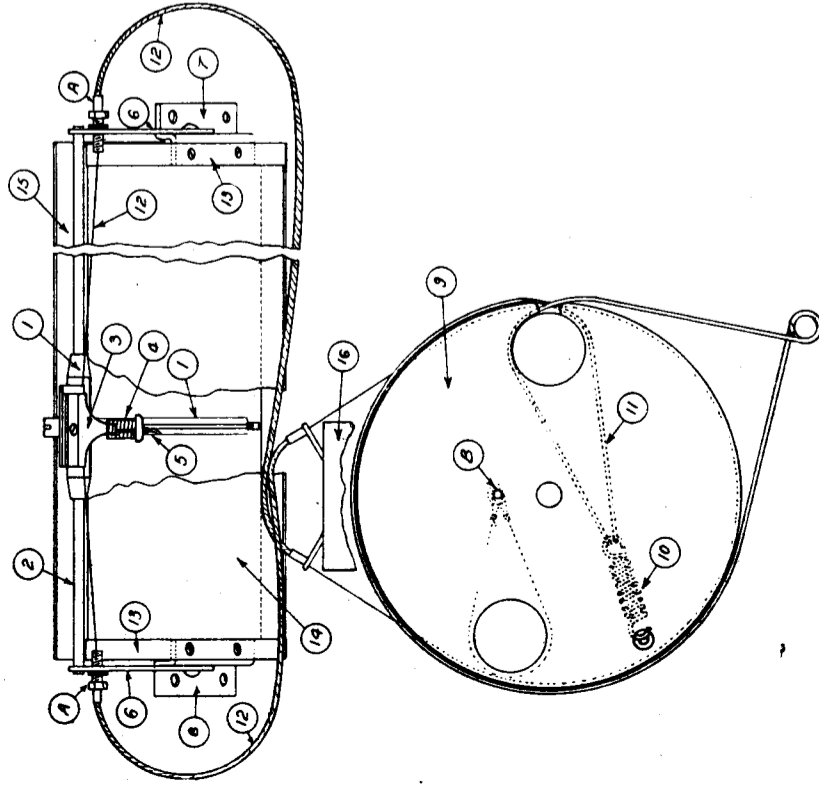
No.	Value	Code No.	Price	No.	Value	Code No.	Price
R1	50,000 ohm	62/212	4d.	R8	50,000 ohm	62/212	4d.
R2	25 ohm	62/223	6d.	R9	.5 meg. pot., plus switch	63/432	5/-
R3	50,000 ohm	62/312	5d.	R10	1 megohm	62/418	6d.
R4	5000 ohm	62/412	6d.	R11	250,000 ohm	62/415	6d.
R5	1000 ohm	62/428	6d.	R12	1 megohm	62/214	4d.
R6	50,000 ohm	62/312	5d.	R13	400 ohm	62/429	6d.
R7	2 megohm	62/222	4d.				

COILS

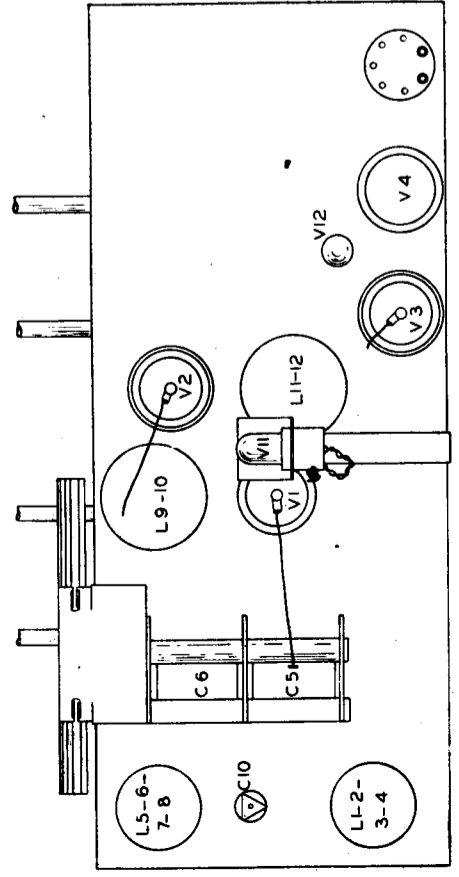
No.	Description	Code No.	Price	No.	Description	Code No.	Price
L1/4	Aerial Coil	42/736	4/3	L13/15	Speaker plus Output Transformer	45/331	23/-
L5/8	Oscillator Coil	42/247	4/3	L13/14	Speaker Transformer (19,000 ohm)	44/340	7/6
L9/10	First I.F.	42/319	7/3				
L11/12	Second I.F.	42/423	7/3				

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.

DIAL PARTS DIAGRAM



CHASSIS LAYOUT DIAGRAM



L	1. 2. 3. 4.	5. 6. 7. 8.	9. 10.	11. 12.	13. 14. 15.
C	1	3. 10 11 13.	5. 16 17	18. 19.	24. 25.
R	2.	7. 14. 15.	6. 9. 20. 21. 23.	26. 27. 30.	31. 32.
V	4. 2. 1.	4. 2. 1.	3. 5.	7. 8. 9.	10. 11. 12. 13.
			1.	2.	3.
				12. 4.	11.
					34.
					35.
					14.

