

RADIOPLAYER MODEL 2650

BATTERY OR BATTERY VIBRATOR OPERATED

SPECIFICATIONS.

(Subject to Alteration without Notice.)

TUNING RANGES

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

INTERMEDIATE FREQUENCY

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

R.F. Penthode	ID5G (V.1)
Frequency Converter	1C7G (V.2)
I.F. Amplifier	ID5G (V.3)
Democulator and 1st Audio	1F7G (V.4)
Power Penthode	KL4G (V.5)

INSTRUCTIONS.

Full instructions for the installation of Model 2650 (battery operation) are contained in the instruction book supplied with each Radioplayer.

VIBRATOR OPERATION.

Model 2650 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 2650 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.

REPAIR FACILITIES.

Incorporated in this Model is a base-board cover, which enables repairs to be made without removal of the chassis from the cabinet. If chassis removal is found necessary see instructions below.

REMOVING THE CHASSIS.

- (1) Remove fibre back.
- (2) Unscrew knobs at front of cabinet.
- (3) Remove battery plug.
- (4) Withdraw loudspeaker plug from chassis.
- (5) 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.

- (6) Loosen one clamping screw at each end of base-board.
- (7) Remove two holding bolts at front of base-board.
- (8) Slide chassis out of cabinet.
- (9) Remove four chassis to base-board securing bolts
- (10) Replacing the chassis may be accomplished by a reversal of the above-mentioned 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
ID5G	123	117			44	56	0	0
1C7G	123	117	70	116	50	52	0	0
ID5G	130	129			44	56	0	0
1F7G	23	22			20	19	0	0
KL4G	126	126			130	129	-5½	-7

NOTE:

The above-mentioned 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.

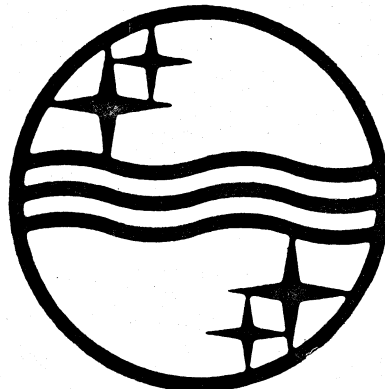
SERVICE DATA

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM

No. on Dial Drawing	Description	Code No.	Price
14	Backing, dial celluloid	34/224	2/-
—	Back, cabinet	34/750	5/6
—	Badge, Philips Emblem	24/447	1/-
—	Baffle	34/107	4/6
—	Baffle, with silk	34/427	7/6
—	Baseboard	34/109	3/6
—	Base, valve shield	24/665	3d.
13	Bracing, strip, dial celluloid	24/787	6d.
7 & 8	Bracket, dial mounting	23/611	8d.
16	Bracket, gang cable support	93/295	1/6
6	Bracket, slide rod, adjusting	24/482	6d.
—	Bracket, tuning control	23/623	8d.
—	Cabinet, No. 26	32/279	47/6
—	Cable, battery	26/235	5/4
12	Cap, tension spring	24/323	2d.
—	Clamp, baseboard	24/423	3d.
—	Clip, grid	24/629	1d.
11	Cord, dial drive	35/317	5d.
—	Cover, baseboard	34/780	1/-
9	Drum, dial drive	34/599	2/8
15	Glass, dial, printed	33/597	5/6
—	Grommets, chassis mounting, rubber	32/311	2d.
—	Knobs, small, tuning and volume control	32/281	5d.

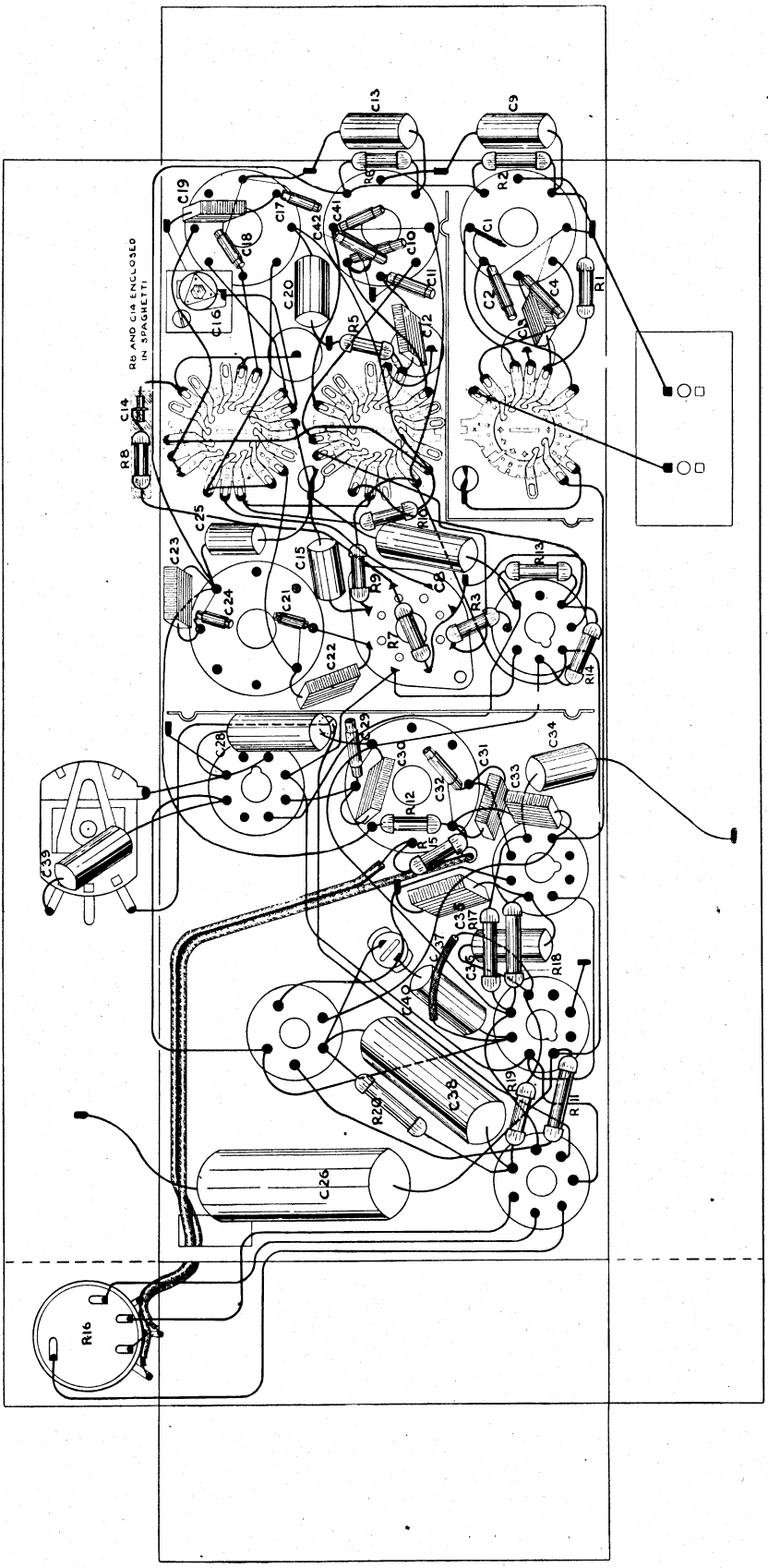
No. on Dial Drawing	Description	Code No.	Price
—	Knobs, large, wave-change and tone control	32/280	7d.
—	Lamp, pilot	92/252	6d.
—	Lamp, fuse	92/214	6d.
—	Plate, clicker, wave-change	72/225	2/-
1	Pointer, assembly complete	93/271	2/6
—	Ring, locking, Amphenol socket	24/666	1d.
2	Rod, slider, supporting	24/931	1/6
—	Shield, valve, plus cap	24/663	7d.
—	Silk, baffle	35/213	2/6
—	Socket, 5 pin, Amphenol	34/514	5d.
—	Socket, 7 pin, Amphenol	34/542	6d.
—	Socket, octal, Amphenol	34/521	6d.
—	Socket, octal, wafer	34/546	4d.
—	Socket, dial lamp and bracket	23/484	2/-
—	Socket, fuse lamp	34/901	5d.
—	Spacers, brass, chassis mounting	24/218	2d.
—	Spindle, tuning control	24/998	6d.
10	Spring, cord tension	25/211	2d.
4	Spring, dial wire	25/218	3d.
—	Switch, tone control	93/239	2/9
—	Switch, section, wave-change	73/222	2/-
—	Switch, section, wave-change	73/214	2/-
—	Switch, wave-change	74/224	9/3
—	Transformer speaker	44/338	7/-
12 & A	Wire assembly, dial drive	93/254	3/-

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



COMPONENT LOCATION DIAGRAM

L	26	38	40	36,37	39	32,28,30,34	22	24	15	25	12	2011	10,14,19	9
C				35		33,31,29	14	7	8	23	14	3,16,24	18,42,17	13
R	16			18	17	20,11,9	14	7	3	9	10	5	6,2	
V			5		4	3	12							



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.	C23	80 mmfd	52/239	6d.
C2	15 mmfd	53/101	3d.	C24	30 mmfd	52/536	3d.
C3	.0045 mfd	52/222	11d.	C25	.01 mfd	52/332	10d.
C4	30 mmfd	52/536	3d.	C26	40 mfd electro.	52/438	2/9
C5/7	Tuning gang	53/412	10/3	C28	.1 mfd	52/317	11d.
C8	.1 mfd	52/317	11d.	C29	30 mmfd	52/536	3d.
C9	.05 mfd	52/315	11d.	C30	80 mmfd	52/239	6d.
C10	15 mmfd	53/101	3d.	C31	80 mmfd	52/239	6d.
C11	15 mmfd	53/101	3d.	C32	30 mmfd	52/536	3d.
C12	.0045 mfd	52/222	11d.	C33	100 mmfd	52/212	7d.
C13	.05 mfd	52/315	11d.	C34	.05 mfd	52/315	11d.
C14	100 mmfd	52/811	6d.	C35	100 mmfd	52/212	7d.
C15	.01 mfd	52/332	10d.	C36	.01 mfd	52/332	10d.
C16	2.5 to 30 mmfd	54/313	8d.	C37	10 mmfd	52/531	3d.
C17	125 mmfd	52/535	6d.	C38	25 mfd electro.	52/416	1/3
C18	15 mmfd	53/101	3d.	C39	.01 mfd	52/332	10d.
C19	200 mmfd ± 5%	52/263	7d.	C40	.002 mfd	52/333	7d.
C20	.05 mfd	52/315	11d.	C41	10 mmfd	53/100	3d.
C21	30 mmfd	52/536	3d.	C42	4 mmfd	52/529	3d.
C22	80 mmfd	52/239	6d.				

RESISTORS

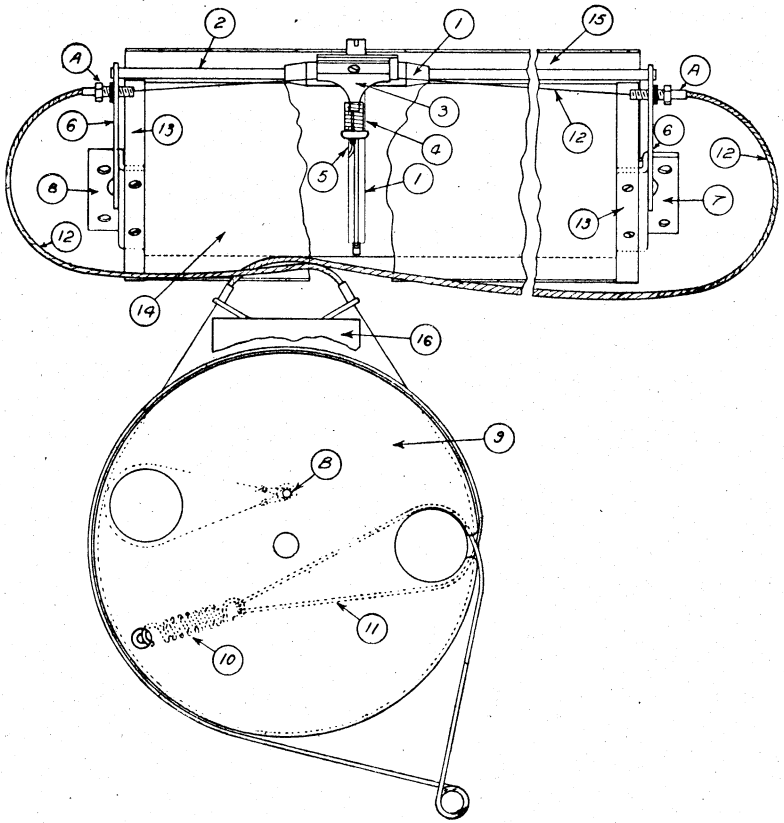
No.	Value	Code No.	Price	No.	Value	Code No.	Price
R1	1 meg.	62/214	4d.	C12	2 meg.	62/222	4d.
R2	100,000 ohm	62/215	4d.	C13	25,000 ohm	62/321	5d.
R3	25 ohm	62/223	4d.	C14	50,000 ohm	62/312	5d.
R5	1 meg.	62/214	4d.	C15	50,000 ohm	62/212	4d.
R6	100,000 ohm	62/215	4d.	C16	.5 meg. pot., with switch	63/427	5/-
R7	100,000 ohm	62/215	4d.	C17	1 meg.	62/418	5d.
R8	100 ohm	62/242	4d.	C18	250,000 ohm	62/415	5d.
R9	50,000 ohm	62/312	5d.	C19	1 meg.	62/214	4d.
R10	25,000 ohm	62/321	5d.	C20	400 ohm	62/429	5d.
R11	1,000 ohm	62/428	5d.	C21	.275 ohm	64/226	3d.

COILS

No.	Value	Code No.	Price	No.	Value	Code No.	Price
L1/4	Aerial Coil	42/727	4/3	L13/14	1st I.F.	42/319	7/3
L5/8	R.F. Coil	42/816	4/3	L15/16	2nd I.F.	42/423	7/3
L9/12	Oscillator Coil	42/236	4/3	L17/18	Speaker plus Transf.	45/358	22/-
				L17/18	Speaker Transformer	44/338	7/-

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

