PHILIPS RADIOPLAYER MODEL 1940

BATTERY OR BATTERY-VIBRATOR OPERATED.

FOR BROADCAST AND SHORT-WAVE RECEPTION.

SPECIFICATIONS. (Subject to Alteration without Notice.)

SPECIFICATIONS. (Subject to Alteration without Notice.)

Tuning Range 1600-550 Kc/s. 6 to 18 Mc/s. Intermediate Frequency 472.5 Kc/s.

BATTERY EQUIPMENT.

1-2 Volt Accumulator (100 amp. hours capacity).

3-45 Volt Super Service "B" Batteries.

BATTERY CONSUMPTION.

2 Volt "A" Battery; 0.44 amp. approx. "B" Battery; 14 milliamp. approx. 6 Volt "A" Battery (in conjunction with Vibrator Unit) 1.1 amp. approx.

VALVE EQUIPMENT.

Frequency Converter

I.F. Amplifier

Demodulator and 1st Audi

Demodulator and 1st Audio Power Amplifier Type IC7G Octode (VI).

Type ID5G R.F. Pentode (V2). Type IK7G Duo Diode Pentode (V3).

Type KL4G Power Pentode (V4).

DIAL LAMPS (VI2).

For "B" Battery Operation 2.5 volt 0.32 amp.

For Vibrator Operation

6.3 volt 0.3 amp.

INSTRUCTIONS.

Full instructions for the installation of Model 1940 (battery operation) are contained in the instruction book supplied with each Radioplayer.

INSTRUCTIONS FOR VIBRATOR OPERATION.

Model 1940 is intended for operation with either "B" batteries, or, alternatively, with Philips Model 148, 220 or 330 vibrator unit. Where it is desired to use a unit in place of "B" batteries, reference should be made to the instruction sheet supplied with each unit.

The switch on the vibrator units, if used in conjunction with Radioplayer Model 1940, should be set as follows:—

Unit 148—Position 6510

,, 330— ,, B

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

FUSE LAMP (VII).

A fuse lamp is fitted in series with the "B" battery negative battery lead as a measure of protection against valve filament burnouts. 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 0.3 amp. type.

REMOVING THE CABINET.

(I) Disconnect batteries 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 the 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, lay 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 abso-

lutely 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	Filament Volts			
IC7G	BC 120	BC 120	BC 50	0	2			
	SW 100	SW 100	SW 47					
ID5G	127		57	0	2			
IK7G	30		20	0	2			
KL4G	125		127	6	2			

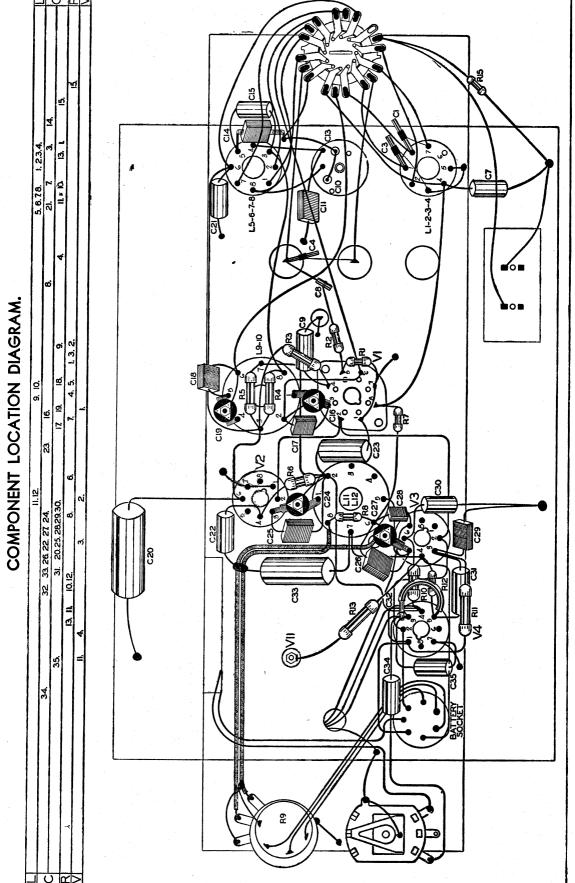
NOTE:

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.





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
CI	10 uuF		52/516	3d.	C19	2.5 to 30 uuF		54/313	8d.
C3	25 uuF		52/515	3d.	C20	40 uF		52/438	2/9
C4	5 uuF	************	52/533	3d.	C21	.01 uF		52/332	7d.
C5				- 411	C22	.01 uF		52/332	7d.
C6	Tuning Gang	***********	53/319	9/11	C23	.l uF		52/317	7d.
	05 uF	***********	52/315	7d.	C24	2.5 to 30 uuF	•••••	54/313	8d.
C8		************	52/811	6d.	C25	80 uuF		52/239	6d.
C9			52/332	7d.	C26	80 uuF	••••••	52/239	6d.
C10		***********	54/313	8d.	C27			54/313	8d.
		***************************************	52/257	7d.	C28		***************************************	52/212	7d.
CII		***************************************			C29	100 uuF		52/212	7d.
	2.5 to 30 uuF	***************************************	54/313	8d.	C30	.05 uF		52/315	11d.
C14			52/258	7d.	C31	.01 uF	•••••	52/332	7d.
C15	05 uF		52/315	IId.	C32	10 uuF	•••••	52/531	3d.
C16	2.5 to 30 uuF		54/313	8d.		25 uF Electrolytic		52/416	1/3
C17	_ 80 uuF		52/239	6d.	C34	.01 uF		52/332	7d.
C18	80 uuF		52/239	6d.	C35	.002 uF	************	52/333	7d.

RESISTORS.

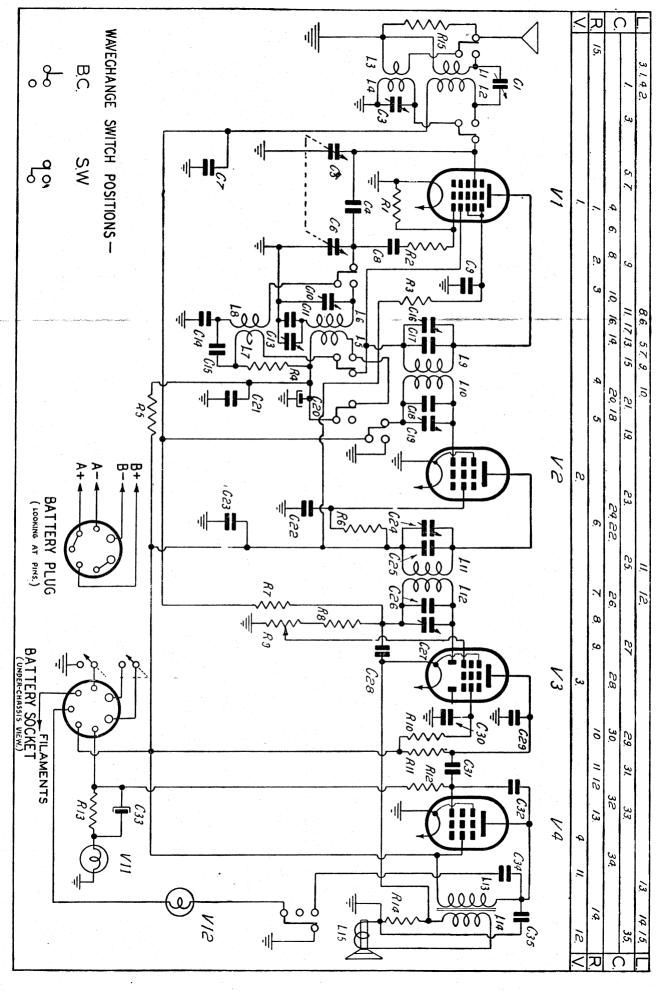
No.	Value		Code No.	Price	No.	Value	Code No.	Price
RI	 50,000 ohm	••••	62/212	4d.	R8	50,000 ohm	62/212	4d.
R2	 25 ohm		62/223	4d.	R9	.5 megohm potentiomete	or 63/418	5/-
R3	 50,000 ohm		62/312	5d.	R10	I megohm	62/418	5d.
R4	 5,000 ohm		62/412	5d.	•	250,000 ohm		5d.
R5	 1.000 ohm		62/428	5d.		I megohm	•	4 d.
	 1,000 011111	****	02/ 720		R13	400 ohm	62/429	5d.
R6	 50,000 ohm		62/312	5d.	R14	Included in speaker		-
R7	 2 megohm		62/222	4d.	R15	10,000 ohm	62/213	4d.

COILS.

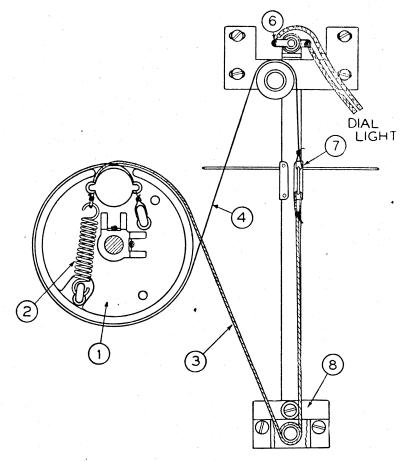
No.	Value	Code No.	Price	No.	Value	Code No.	Price
L1, L2, L3, L4	Aerial Coil	42/725	4/3	LII, LI2	2nd I.F	42/423	7/3
L5, L6, L7, L8	Oscillator Coil	42/234	4/3	L13, L14, L15	Speaker plus transfmr	45/332A	23/6
L9, L10	Ist I.F.	42/319	7/3	L13, L14	Speaker transformer	44/314	6/-

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.



DIAL PARTS DIAGRAM



CHASSIS LAYOUT DIAGRAM.

