PHILIPS RADIOPLAYER MODEL 1852.

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

SPECIFICATIONS (Subject to Alteration Without Notice.)

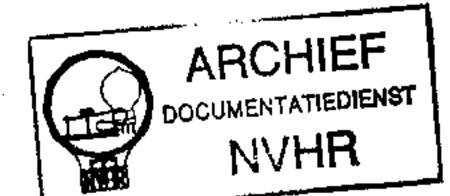
Voltage Rating (Power Supply) 220 to 260 volts A.C.

Tuning Range

Intermediate Frequency

220 to 260 volts A.C 1,550 to 540 Kc/s. 8 to 22 Mc/s. 472.5 Kc/s.

Ned. Ver. v. Historie v/d



VALVE EQUIPMENT

Frequency Converter I.F. Amplifier Demodulator, A.V.C. and Audio Amplifier Power Amplifier Rectifier EK2G Octode 6U7G R.F. Penthode

6B6G Duo-diode Triode EL3G Power Penthode

5Y3G Full-wave

Special type 8091D 6.3 volt 0.64 A.

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.

Dial Lamp

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 CHASSIS.

The mechanical arrangement of the dial is such that portion of the unit is mounted on the cabinet proper. This is connected to the chassis by flexible cables. In removing the chassis from the cabinet it is not necessary to detach the dial glass proper and associated mechanism.

The following procedure is recommended:

- (1) Remove power plug from mains socket.
- (2) Remove knobs at front of cabinet (recessed grub screws).
- (3) Disconnect loudspeaker cord connectors (at the same time note colour scheme to facilitate reconnection).
- Remove chassis mounting bolts.
- (5) Swing chassis around so that the front of the dialdrive drum (shown as "10" in drawing) is accessible. During this operation care should be taken that the flexible cable sheath ("2" in drawing) is not kinked.
- (6) Slacken off brass sheath nipples ("A" in drawing) at either end of dial so that tension on dial wire is relieved.
- (7) Lift off loops at end of dial drive wire from the drum at "B," and unwind wire from drum.
- (8) With the dial wire disconnected it will now be possible to clear the wire cable and sheath from the bracket ("11") and the chassis is free for removal, leaving the dial and associated mechanism in the cabinet.

REPLACING THE CHASSIS.

This may be accomplished by a reversal of the abovementioned removal process. When the dial wire has been threaded into the drum in accordance with the illustration (care being taken that the disposition of the cables is exactly the same), the brass sheath nipples should be tightened so that there is a small amount of tension on the dial cable.

The chassis is next placed temporarily in position, the speaker connected and power applied to the Radioplayer.

Calibration is now checked by tuning the set (see separate paragraph on calibration), and if O.K. the chassis can be bolted down, the knobs fitted and the set is again ready for use.

DIAL CALIBRATION.

If 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 clamping screw on the pointer slider and moving the slotted wire tension guide ("15") in relation to the pointer clamp and slider ("4"). After adjustment tighten the clamping screws securely.

DIAL POINTER.

The sharpness of the light image projected by the glass pointer on to the scale depends on the distance that the glass rod is spaced away from the scale. Adjustable brackets (shown as "6" in the drawing) are provided so that the position of the slide bars (1) can be adjusted and accordingly vary the focus of the pointer. The lower end of the pointer is kept close to the dial scale by a counterweight and, therefore, it is the upper slide rod that will be mainly varied to change the focus of the pointer. Under normal circumstances where the dial scale has not been removed or tampered with in any way, focussing of the pointer will be unnecessary; in fact, even if the entire, dial scale mechanism is taken out of the cabinet, there is no need to alter the original adjustment of the brackets "6" and the focussing should be satisfactory when 🕍 parts are restored.

XELLOW BLACK 03A ORANGE C30 R_{12}

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		8 uuF		52/521	3d.	C18		Part of Coil	42/315		
C2						C19		.01 uF		52/311	4d.
C3						C20		.01 uF		52/311	4d.
C4		<u> </u>		(0.10		C21		Part of Coil		·	
Č5		Tuning Gang	.	53/213	9/6	C22		2.5-30 uuF		54/313	8d.
Ç6	• • • • • • •					C23		2.5-30 uuF		F4 (3.33	8d.
C7						C24		Part of Coil		2 .,	
Č8		2.5-30 uuF		54/313	8 d.	C25		100 uuF		52/811	6d.
C9	• • • • • •	100 uuF		52/811	6d.	C26		.01 uF		C7/331	4d.
	• • • • • •			52/811	6d.	C27		.001 uF		C3/310	8d.
C10		100 uuF	.* * * * *		4d.	C28		.001 uF		P7/211	4d.
CH		.01 uF		52/311			• • • • •			727311	7u.
CIZ		2.5-30 uuF			8d.	C29		16 uF		ธว //ว่า	0 / 0
C13		420 uuF		52/236	7d.	C31		8 uF		52/422	8/8
C14		2.5-30 uuF		54/313	8d.	C32		25 uF J		C3 /333	
C15		Part of Coil	42/315			C30		.006 uF			8d.
C16		2.5-30 uuF			8d.	C33		.004 ոե			7d.
C17		2.5-30 uuF		54/313	8d.	- C34		.01 uF		52/332	4d,
NOT	F. C34	which does n	ot annear in	circuit is	connected	hetwee	n the m	oving arm of	Switch "5"	and chassis.	

RESISTORS

No.	Value.	Code No.	Price.	No.	Value.	Code No.	Price
RI	. 1 megohm	 62/214	4d.	R9	 0.5 megohm pot.	 63/214	3/3
R2	CO 000 1	 40 1010	4d.	R10	 0.5 megohm	 62/216	4d.
	25 ohm	62/223	6d.	R11	 0.25 megohm.	 62/415	5đ.
R4	10,000 ohm	 /0 //TT	. 5d.	R12	 0.5 megohm pot.	 63/416	3/3
	150,000 ohm	 601434	- 1	R13	 50,000 ohm	 62/212	7d.
	60,000 ohm	 CO 1415	5 d .			 64/213	5d.
	1 megohm	 Z2.22.4	4d.		 100 ahm (64/221	6d.
R8	50,000 ohm	 62/212	4d.		125 ohm 🥤	 64/221	Q 0.

COILS

No.	Value.	Code No.	Price.	No.	Value.	Code No.	Price.
L1	. 30 ohms) =_	-		L12	7.5 chms	42/419	7/9
L2 L3 L4	4.0 chms	42/712	4/3	L13	7.5 ohms∫~-	72/11/	,,,
L5	3.5 ohms 3.5	42/216	-	L14 L15 L16 L17		44/212	13/-
L9	1 43	42/315	7/9	L19	600 ohms	44/312	6/-
L11	. 7.5 ohms	,,,,,, 154 3 13	"	L20	0.5 ohms∫ỗ≞	, ,	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.

VOLTAGE ANALYSIS

Heater Voltage (A.C.)	6.3	6.3	6.3	6.3	5.0
Bias Voltage	2	<u></u> 2	-1.5	—5.5	plate.
Screen Voltage	55	100	1	245	300 volts A.C. per plate.
Plate Voltage	200 (osc. p. 200v.)	245	100	220	300 vo
Valve Type	EK2G	6U7G	588G	EL3C	5Y3G

NOTE

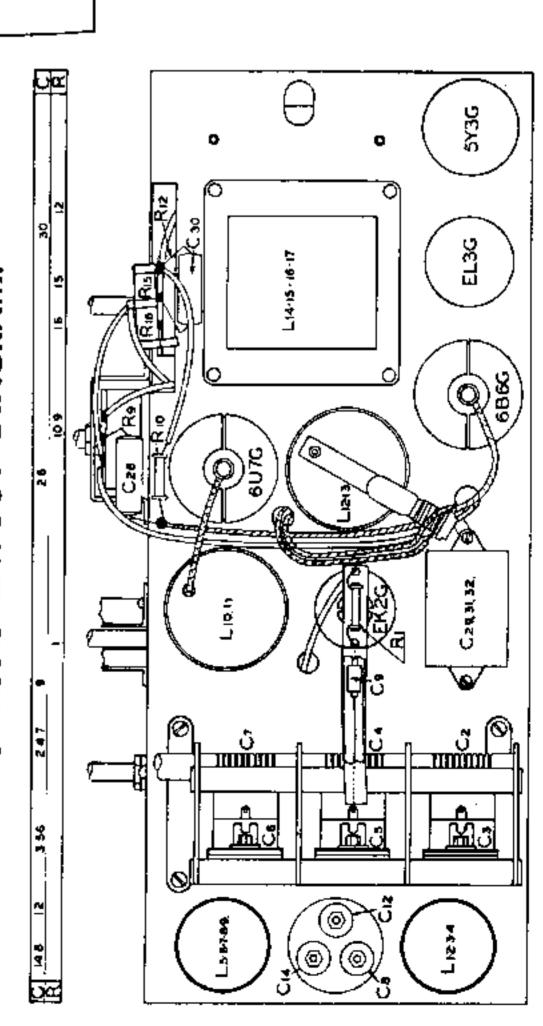
The abovementioned voltage values, with the exception of bias voltages, are measured between the socket points indicated and chassis, with the receiver in the no signal condition and with the volume control at zero. Bias voltages are to be measured at the source of the voltage, as incorrect readings 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.

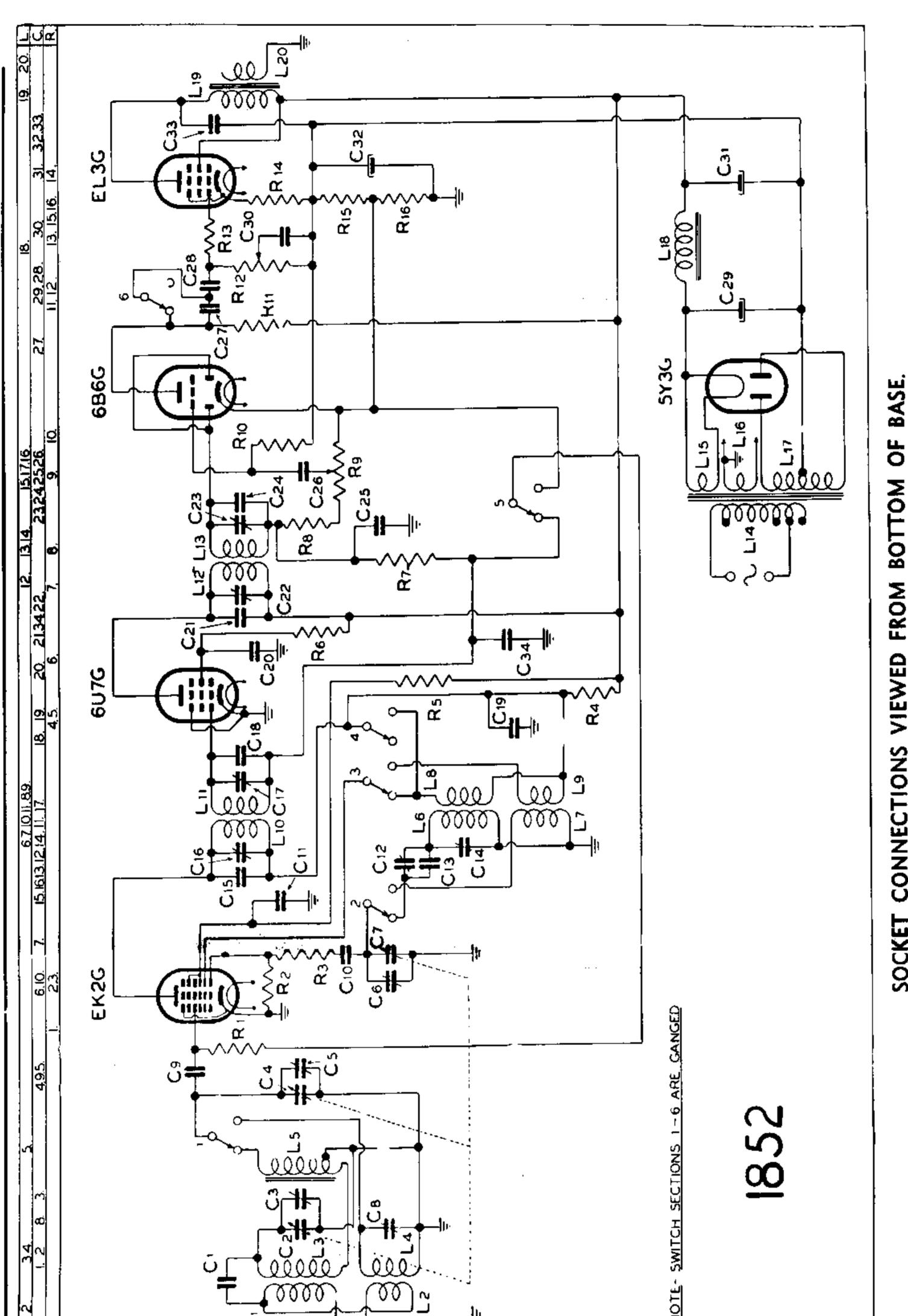
LOUD SPEAKER CONNECTIONS.

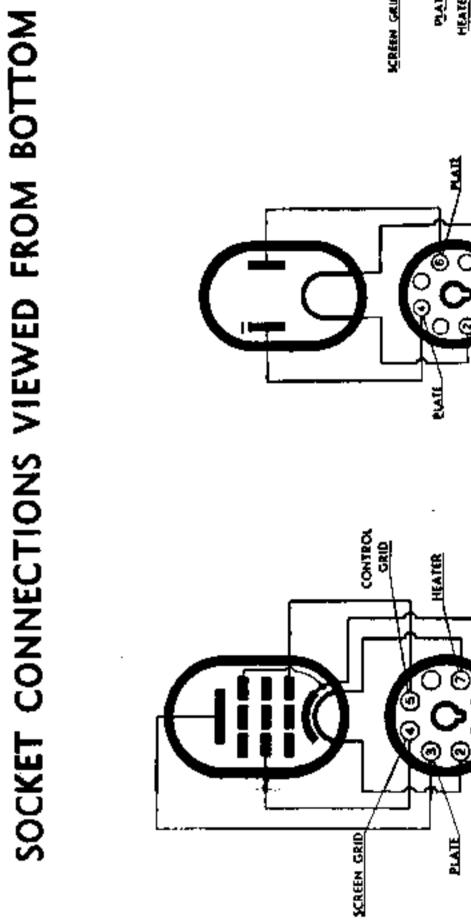
The speaker leads (voice coil and field) in this model are joined by connectors.

If after disconnecting and re-connecting the speaker and chassis for any purpose, it is found that the hum level in the speaker is high, this will most likely be due to reversal of the voice coil (red and orange) leads. The remedy is to change over the red and orange leads at the connectors.

CHASSIS LAYOUT DIAGRAM.







EK2C

6U7C

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM

(SEE DIAL DIAGRAM)

No. on Diagram.	Description.	Code No.	Price	No. on Diagram.	Description.	Code No.	Price.
1	Dial slide rod	24/252	1/6		No. 18 Cabinet	33/619	£4/12/6
2	Dial wire assembly comp.	26/318	3/-		Control knob	32/229	7d.
3	Glass pointer rod	33/522	6d.		Loudspeaker unit		
4	Pointer clamp and slider	24/519	2/6		(less transformer)	45/313	15/6
5	Slide counter weight	24/475	3d.		Tone control extension spindle	24/241	9d.
6	Dial adjusting brackets	23/444	6d.		Amphenol type octal socket	34/521	6d.
7	Dial mounting bracket	23/441	6d.	!	Wafer type octal socket	34/546	4d.
8	Dial drive cord	35/313	5d.		Trimmer mounting disc	33/416	5d.
9	Cord tension spring	25/211	2d.		Panel lamp holder	24/6 44	6d.
10	Dial drum (Philite)	32/226	2/8		Goat type valve shield	24/615	5d.
11	Cable support gang bracket	23/443	1/6		Valve shield earthing clip	24/616	2d.
12	Wire clamp	24/222	2d.		Wave change clicker plate	72/212	2/3
13	Tension spring cap	24/323	2d.		Wave change switch section	73/411	2/-
14	Wire tension spring	25/218	3d.		Volume control mounting brkt.	. 23/442	9d.
15	Wire tension guide	24/454	7d.		Rubber chassis mounting		
	Tuning control spindle	24/242	9d.	İ	grommet	32/311	2d.
	Tuning control mtg. bracket	24/442	6d.		•		2d.
	Dial glass (printed)	33/523	5/6		Brass bush for above grommet	•	
	Baffle silk	35/218	4/6		Connector for speaker cable	34/555	6d.

