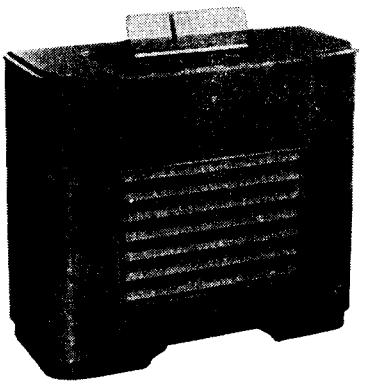
PHILIPS RADIOPLAYER

MODELS 119 & 119A



SPECIFICATIONS

(Subject to alteration without notice.)

Power Supply	220-260V, 40-60 c/s
Tuning Ranges	B/C Band 530 - 1,620 Kc/s S/W Band 5.9 - 18.4 Mc/s
Intermediate Frequency	455 Kc/s
Cabinet	De-luxe Wooden Console

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	V1	ECH35	238	67	100
I.F. Amplifier	V2	6SK7GT	246	88	—
Demodulator, A.V.C. and 1st Audio	V3	6SQ7GT	95	—	—
Power Amplifier	V4	EL33A	231	246	—
Rectifier	V5	6X5GT	V5 Cathode to L12 C.T. — 276 volts		
Dial Lamps	6.3V 0.32A tubular screw				
Voltage across R12 –1.8V; across R11 and 12 –9.4V					

NOTE: These voltages are measured with a "1,000 ohms per volt" meter, and may vary ± 10% from the figures quoted. They are measured from the socket points indicated or across the resistors listed. The receiver should be in a "no signal" condition.

REMOVAL OF CHASSIS FROM CABINET.

Remove the power plug from the mains outlet. Remove the four control knobs, the speaker and dial lamp plugs from their respective sockets and release the dial cursor assembly from the dial cord. Lay the cabinet flat on some protective material and remove the four screws securing the chassis to its baseboard—do NOT remove the baseboard from the cabinet. The chassis may now be lifted from the cabinet.

The chassis may be replaced by a reversal of the above procedure.

DIAL GLASS REMOVAL.

Raise the dial glass to its maximum forward position. This allows access to the dial glass clamping screws in the dial assembly end housing. Loosen the clamping screws (it is not necessary that they be completely removed) and withdraw the dial glass from the assembly. When the dial glass is replaced make sure that it is securely clamped.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two mains voltage tappings, 220/240 volts and 250/260 volts. This Radioplayer is adjusted at the factory to the 220/240 volts tapping.

ALIGNMENT.

The calibrated scale on the top edge of the chassis in conjunction with an auxiliary pointer which can be made up from workshop materials, facilitates alignment. With the gang fully closed, set the auxiliary pointer to the letter "S" mark.

On the short wave band the receiver oscillator operates at a frequency above that of the incoming signal.

DIAL LAMP REPLACEMENT.

This operation is carried out from outside the cabinet. The lamps are located one at each end of the dial glass, in the end housings. The covers are a clip fit and are easily removed.

REMOVAL OF INCLINATOR DIAL ASSEMBLY.

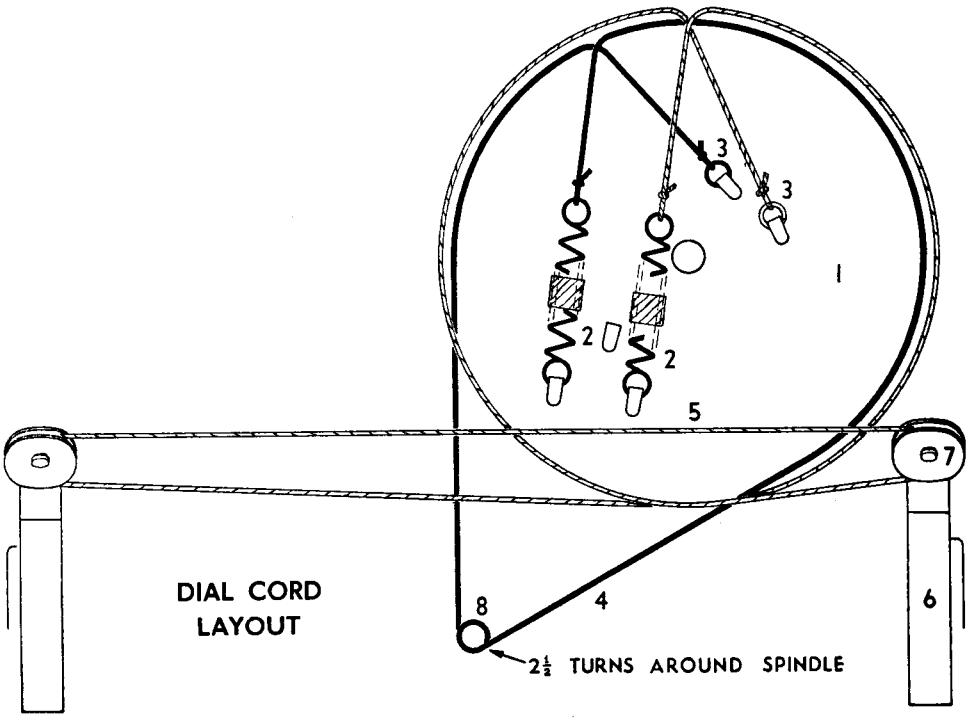
After the chassis is removed from the cabinet—see "Removal of Chassis from Cabinet"—the inclinator dial assembly mounting brackets (one at each end of the assembly) are easily accessible. Removal of the mounting brackets permits the dial assembly to be lifted clear of the cabinet.

In order to prevent possible damage to the dial glass, it is well to remove it before commencing the removal of the dial assembly—see "Dial Glass Removal."

MISCELLANEOUS COMPONENTS

No. on Dial Parts Diagram	Description	Code No.
—	Arm, side (W/C switch)	CS.218.006
—	Assembly, cursor	CR.480.614
1	Assembly, dial drum	CR.382.804
—	Assembly, dial housing, R.H. (Incl. dial assy.)	CR.272.604
—	Assembly, dial housing, L.H. (Incl. dial assy.)	CR.272.605
—	Assembly, lamp cover, R.H. (Incl. dial assy.)	CR.272.401
—	Assembly, lamp cover, L.H. (Incl. dial assy.)	CR.272.400
—	Assembly, lamp holder	CZ.367.906
—	Assembly, pressure plate (Incl. dial assy.)	CR.391.207
6	Assembly, pulley spindle	CR.436.201
—	Assembly, slider hinge	CR.432.200
—	Assembly, T/C - on/off switch (complete)	CZ.200.218
—	Assembly, W/C switch (complete)	CZ.200.027
—	Assembly, T/C clicker	CR.450.025
—	Assembly, W/C clicker	CR.450.026
—	Assembly, terminal	CZ.376.201
—	Badge, Philips	CR.531.408
—	Bank, T/C switch	CZ.200.204
—	Bank, W/C switch	CZ.200.026
—	Brace, end (W/C switch)	CS.219.000
—	Bracket, cover attaching R.H. (Incl. dial assy.)	CS.229.803
—	Bracket, cover attaching L.H. (Incl. dial assy.)	CS.229.802
—	Bracket, tuning spindle	CS.224.603
—	Clamp, speaker mounting	CS.234.813
—	Clamp, incl. dial mounting to cabinet	CS.235.205
—	Cloth, baffle	CE.081.81

No. on Dial Parts Diagram	Description	Code No.
5	Cord, dial	CS.361.811
4	Cord, drum	CS.361.812
—	Cover, front (Incl. dial assy.)	CS.430.828
—	Cover, rear (Incl. dial assy.)	CS.430.827
—	Glass, dial, printed 119	CS.412.253
—	Glass, dial, printed 119A	CS.412.290
—	Grommet, chassis mounting	CS.422.421
—	Grommet, power cord	CS.422.414
—	Key, W/C clicker	CS.365.803
—	Knob, tuning	CR.523.656
—	Mount, bakelite (Incl. dial to cabinet)	
—	Nut, tee (chassis mounting)	CH.603.214
—	Plate, clamping (Incl. dial to mount)	CS.235.200
—	Plate, friction (Incl. dial assy.)	CS.366.200
—	Plug, 2-pin polarised	CR.102.200
7	Pulley, wooden	CS.360.202
3	Ring, dial cord	CS.281.807
—	Rod, dial slide	CS.382.202
—	Socket, octal wafer	CZ.369.507
—	Socket, 2-pin polarised	CR.102.401
—	Socket, pick-up	CZ.370.106
8	Spindle, tuning	CS.351.410
—	Spring, compression (Incl. dial assy.)	CS.281.806
2	Spring, dial drum	CS.210.010
—	Spring, return (Incl. dial assy.)	CS.212.201
—	Spring, tuning spindle	CS.212.001
—	Spring, W/C clicker key	CS.211.802
—	Switch, mains on/off	CZ.220.001
—	Washer, friction (Incl. dial assy.)	CS.366.201
—	Washer, felt (knobs)	CS.424.018



DIAL CORD LAYOUT

CAPACITORS

No.	Description	Code No.
C1–38	150 pF mica	
C2	5pF glass	CZ.102.303
C3–4–12–14–17–21–25–30	30 pF air trimmer	CZ.113.700
C5–6	2 gang tuning 119	2H
C5–6	2 gang tuning 119A	CZ.107.720
C7	0.001 mF mica	
C9–15–32	100 pF mica	
C10	400 pF mica	
C11	0.0045 mF mica	
C13	125 pF ceramic trimmer	CZ.118.200
C16–19–23–40	0.01 mF paper 600V	
C18–20–24–31	80 pF mica	
C22–42	0.1 mF paper 200V	
C26–34–41	30 pF mica	
C27–43	0.006 mF paper 600V	
C28	0.05 mF paper 200V	
C29–35	16 mF 525V electrolytic	
C33	0.004 mF paper 600V	
C36	0.02 mF paper 400V	
C37	0.002 mF paper 600V	
C39	50 pF mica	
C44	0.1 mF paper 600V	

RESISTORS

No.	Description	Code No.
R1–7–19–21	1 megohm ½W carbon	
R2	150 ohms ½W carbon	
R3	25,000 ohms ½W carbon	
R4	30,000 ohms 1W carbon	
R5	100,000 ohms 1W carbon	
R6	1,000 ohms 1W carbon	
R8	50,000 ohms 1W carbon	
R9–22–28	0.5 megohm ½W carbon	
R10	20,000 ohms ½W carbon	
R11	150 ohms 1W W/W	
R12	35 ohms 1W W/W	
R13	10,000 ohms ½W carbon	
R14–16–24	50,000 ohms ½W carbon	
R15	0.5 megohm tapped potentiometer	
R17	2 megohms ½W carbon	
R18–23	250,000 ohms ½W carbon	
R20	250,000 ohms 1W carbon	
R25	200 ohms ½W W/W	
R26	75 ohms ½W W/W	
R27	100 ohms ½W W/W	

COILS

No.	Ohms	Description	Code No.
L1	21	Aerial Coil	CZ.320.021
L2	3.5		
L3	1.3		
L4	<0.5		
L5	2.3	Oscillator Coil	CZ.321.006
L6	5.0		
L7	<0.5		
L8	<0.5		
L9	4.8	1st I.F. Transformer	CZ.326.205
L10	4.8		
L11	30	Power Transformer	CZ.344.021
L12	500		
L13	<0.5		
L14	<0.5		
L15	4.8	2nd I.F. Transformer	CZ.326.204
L16	5.1		
L17	600	Speaker and Transformer, 7,000 ohms	CZ.161.303
L18	<0.5		
L19	1.8		
L20	450	Filter Choke	CZ.340.406

IMPORTANT ! In ordering spare parts, quote CODE NUMBER of part and MODEL NUMBER of Radioplayer. In claiming free replacement under GUARANTEE, return defective part PROMPTLY and quote MODEL and SERIAL NUMBER of Radioplayer and DATE OF PURCHASE.

SERVICE DATA