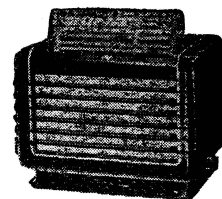


PHILIPS RADIOPLAYER

MODELS 112 and 112A

SPECIFICATIONS

Subject to alteration without notice.



Power Supply	220-260V 40/60 c/s.
Tuning Range	530-1620 Kc/s.
Intermediate Frequency	455 Kc/s.
Cabinet	Moulded Bakelite mantel executed in several colours.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. Plate Volts	Cathode Volts	Bias Volts
Frequency Converter	V1	ECH35	134	70	98	0.6	—
I.F. Amplifier	V2	EBF35	134	98	—	0	—
Demodulator and A.V.C.	V3	6V6GT	178	134	—	0	−9.0
Power Amplifier	V4	6X5GT	188V AC per plate				
Rectifier	V11	6.3V 0.32A tubular screw					
Dial Lamp	V4 cathode — L10 C.T. — 200V						

NOTE: The voltages are measured between the socket points quoted and chassis using an "1,000 ohms per volt" meter. Voltages may vary $\pm 10\%$ from the quoted figures. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CABINET.

Remove plug from power supply socket. Withdraw dial glass from cabinet and fold the dial pointer down into the dial glass recess. Remove the chassis bottom cover, mounted by means of two trimount studs and one screw. Access is now obtained to the control knob grub screws and the knobs may be removed. Remove four screws holding the chassis to the cabinet, two at the rear of the chassis and two at the ends of the gantry top bracket. After removal of the speaker clamp, the chassis may be withdrawn.

Replacement of the chassis is carried out by a reversal of the above procedure.

NOTE: It is essential that the bottom cover be held in position by its central mounting screw whilst the Radioplayer is in operation.

DIAL CALIBRATION.

If station calibrations are incorrect by an equal amount over the dial scale, the condition may be corrected by loosening the thumb screw which holds the pointer assembly to the dial cord, adjusting the pointer to correct calibration and retightening the screw.

DIAL LAMP REPLACEMENT.

The dial lamp holder is slotted, and by loosening the screw holding it to the gantry top bracket, it may be withdrawn to the rear of the chassis for the purpose of lamp replacement.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two tapplings, 220-240 volts and 250-260 volts, by means of which the Radioplayer may be adjusted to the mains voltage at the point of installation. The Radioplayer is adjusted to the 220-240 volts tapping before despatch from the factory.

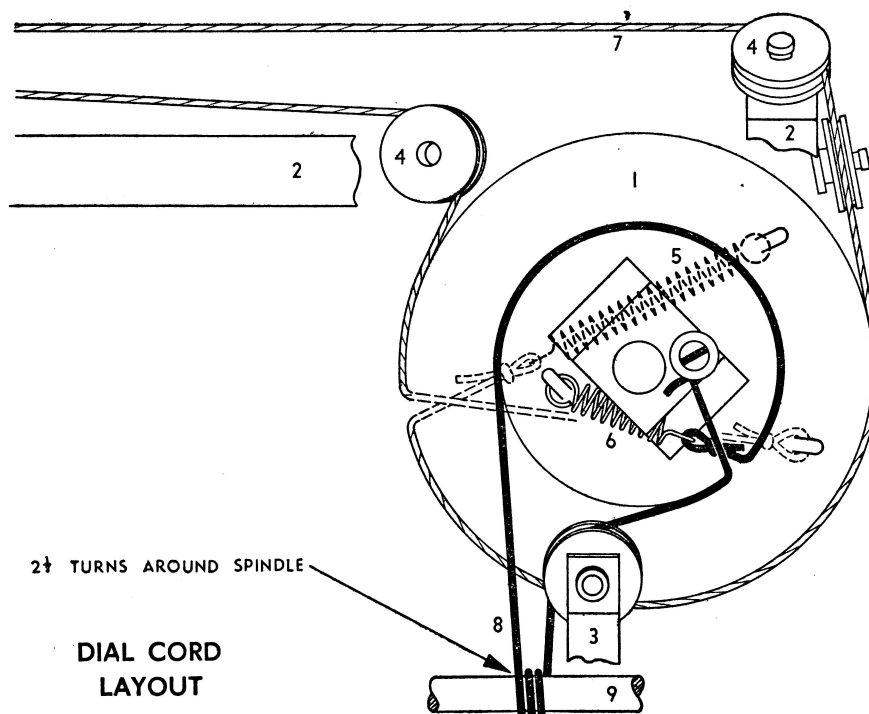
ALIGNMENT.

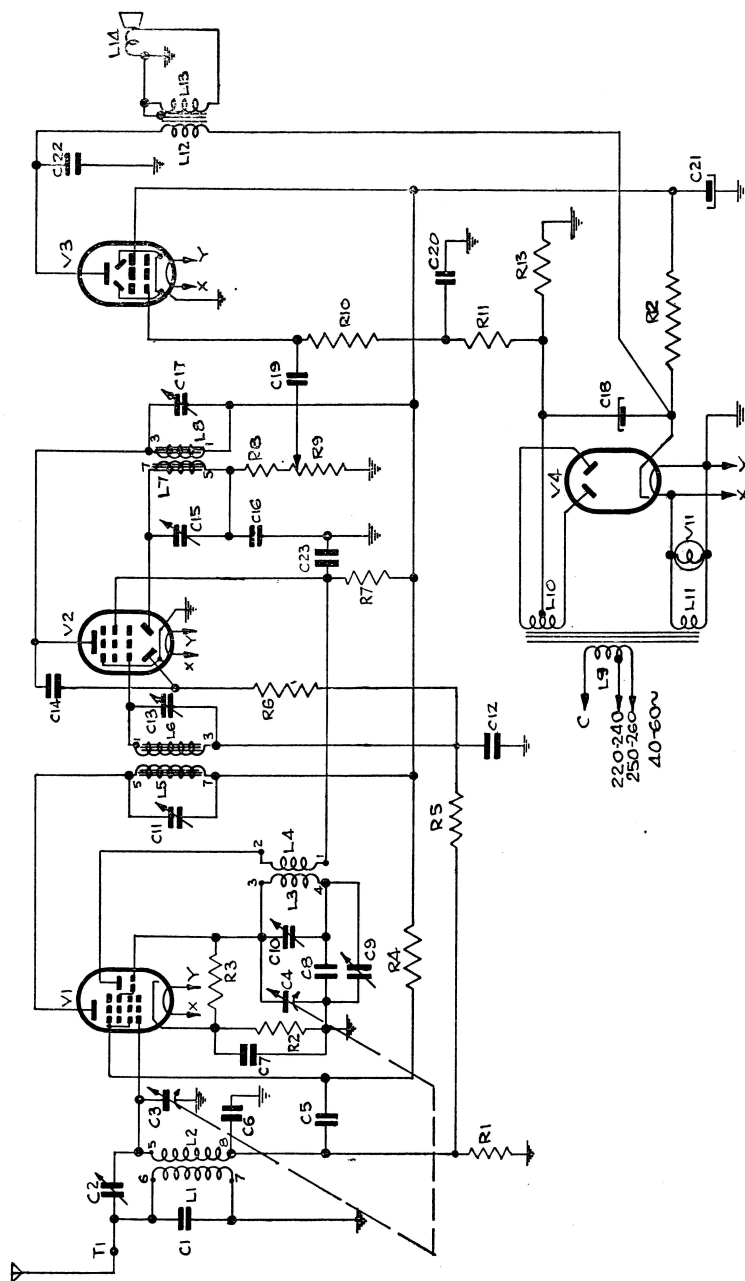
Removal of the cabinet bottom cover allows sufficient access to the under chassis components to carry out alignment operations.

Before commencing broadcast alignment, fully close the tuning gang and set the pointer by means of its clamping thumb screw, in line with the R.H. vertical stroke of "N" in the letters "N.S.W." at the R.H. end of the dial scale.

COMPONENTS NOT SHOWN ON CIRCUIT DIAGRAM

No. on Dial			No. on Dial		
Diagram	Description	Code No.	Diagram	Description	Code No.
—	Assembly, baffle	CR.005.002	—	Glass, dial, printed 112	CS.412.212
—	Assembly, cursor	CR.480.611	—	Glass, dial, printed 112A	CS.412.222
1	Assembly, dial drum	CR.382.200	—	Grommet, power cord	CS.422.414
2	Assembly, gantry	CR.304.603	—	Grommet, speaker leads	CS.422.411
—	Assembly, lampholder	CZ.367.903	—	Knob, mahogany	CR.523.645
3	Assembly, pulley spindle	CR.436.202	—	Knob, walnut	CR.523.637
—	Assembly, terminal	CZ.376.200	4	Pulley, dial drive	CS.360.201
—	Badge, Philips	CR.531.406	—	Ring "C" (tuning and pulley spindles)	CS.281.801
—	Bracket, slide rod L.H.	CS.228.431	—	Ring, dial cord	CS.281.807
—	Bracket, slide rod R.H.	CS.228.430	—	Rod, dial slide	CS.382.206
—	Cabinet, mahogany	CS.460.465	—	Shield, chassis	CR.122.200
—	Cabinet, walnut	CS.460.468	—	Sleeve, gang extension (112A only)	CS.213.224
—	Clamp, baffle	CS.235.814	—	Socket, octal wafer	CZ.369.507
—	Clamp, dial glass L.H.	CS.234.816	9	Spindle, tuning	CS.351.219
—	Clamp, dial glass R.H.	CS.234.815	5	Spring, dial drum (long)	CS.210.008
—	Clamp, speaker	CS.235.812	6	Spring, dial drum (short)	CS.210.011
7	Cord, dial	CR.384.808			
8	Cord, drum	CS.361.809			



[illegible]

P A R T S L I S T S

CAPACITORS

No.	Description	Code No.
C1-16	100 pfd ceramic	
C2	30 pfd glass trimmer	
C3-4	2 gang tuning 112	CZ.109.709
	2 gang tuning 112A	CZ.109.733
C5-22-23	0.01 mfd paper 600V	
C6	0.05 mfd paper 200V	
C7-12-20	0.1 mfd paper 200V	
C8	380 pfd mica 112	
C8	460 pfd mica 112A	
C9-11-13-15-17	125 pfd ceramic trimmer	
C10	30 pfd air trimmer	
C14	33 pfd ceramic	
C18	24 mfd electrolytic 350V	
C19	0.002 mfd paper 600V	
C21	8 mfd electrolytic 350V	

RESISTORS

No.	Description	Code No.
R1-5	0.25 megohm 1/2W carbon	
R2	50 ohms 1/2W carbon	
R3	25,000 ohms 1/2W carbon	
R4	15,000 ohms 1W carbon	
R6	2 megohms 1W carbon	
R7	5,000 ohms 1W carbon	
R8	50,000 ohms 1W carbon	
R9	0.5 megohm switch potentiometer	CZ.032.000
R10	1 megohm 1/2W carbon	
R11	100,000 ohms 1/2W carbon	
R12	2,500 ohms 5W W/W	CZ.011.301
R13	250 ohms 1W W/W	

COILS

No.	Ohms	Description	Code No.
L1	21	Aerial and Oscillator Coil 112 112A	CZ.320.011
L2	4		CZ.320.014
L3	5		
L4	2.5		
L5	4.8	1st I.F. Transformer	CZ.320.412
L6	4.8		
L7	4.6	2nd I.F. Transformer	CZ.320.416
L8	4.6		
L9	100	Power Transformer	CZ.344.018
L10	190		
L11	<0.5		
L12	75	Speaker and Transformer 10,000 ohms	CZ.161.106
L13	<0.5		
L14	3		

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

SERVICE DATA

112
112A