PHILIPS—RADIOPLAYER

MODEL 152

SPECIFICATIONS

(Subject to alteration without notice)



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts	
Frequency Converter	VI	6AN7	225	30	85	
I.F. Amplifier Demodulator and A.V.C.	V2	6N8	225	50		
Audio Amplifier	V3	6N8	75	14	_	
Power Amplifier	V4	6M5	207	225	: =	
Rectifier	V5	EZ82	Cathor	le — L17 C.T.	2621/	
Dial Lamps	VII & 12	6.3V. 0.32A, tubular screw				

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

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two mains voltage tappings--220/240 volts and 250/260 volts-for adjustment to the supply voltage at the point of installation. This receiver is adjusted at the factory to the 220/240 volts tapping.

DIAL CALIBRATION

If it is required to correct dial calibration for an equal error on all stations, provision is made for moving the cursor assembly with respect to the dial cord. Loosen the clamping screw, make the necessary adjustment to the cursor position and securely retighten the clamping This operation can be carried out without the need to remove the chassis from the cabinet.

TO REMOVE CHASSIS FROM CABINET.

Remove the power plug from the supply outlet socket Remove the four control knobs (a firm pull is all that is necessary) and the cabinet back. The chassis is held to the cabinet by two screws in the baffle and four screws through the bottom of the cabinet. Removal of these six screws enables the chassis to be withdrawn from the cabinet.

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

ALIGNMENT.

The iron cores for the secondaries of the I.F. transformers are located in the top of the cans, those for the primaries are in the bottom of the cans. When trimming the I.F. circuits care should be taken not to screw the iron cores in too far otherwise undesired coupling may give rise to a false peak. A preliminary positioning to the outer edge of the former of all iron cores should be made. Then, when trimming is being carried out, the cores should not be screwed in beyond the first peak. Metallic tools should not be used for I.F. transformer trimming.

Damped alignment of the I.F. channel is necessary. The procedure is:---

- (a) Connect a 100 pF capacitor across the secondary of the 1st I.F.T.
- (b) Trim in order, secondary of 2nd I.F.T., primary of 2nd I.F.T. and primary of 1st I.F.T.(c) Check (b).
- (d) Remove the shunt from the secondary of the 1st I.F.T. and trim this circuit.
- (e) Check (d).
- (f) Do not alter adjustments without 100 pF shunt in position

Broadcast band alignment frequencies are 1,420 kc/s (oscillator and aerial trimmers), and 600 kc/s (slug padding). The alignment calibration scale is stencilled on the dial drum. An auxiliary pointer to use with this scale can be made up from workshop materials and fixed to a convenient point on the tuning capacitor mounting bracket. The various markings on the scale are (reading in an anti-clockwise direction) ;---

Stop mark (gang fully closed) 550 kc/s (large dot)

600 kc/s (large and small dots together) then 100 kc/s steps to 1,300 kc/s

1,420 kc/s (large and small dots together)

1.500 kc/s

Do not attempt to adjust the iron core of the aerial

Published by Philips Electrical Industries Pty. Limited

April, 1953

Sydney - Melbourne - Brisbane - Adelaide - Perth

PARTS LISTS

MISCELLANEOUS COMPONENTS

No. on [Dial Cord		No. on Dial Cord	
	Drawing Description	Code No.	Layout Drawing Description	Code No.
	Assembly, baffle	CR.005.236	 Grommet, gang bracket, 3x 	CS.422.458
_	Assembly, cursor	CR.480.639	Grommet, power cord	CS.422.457
•	Assembly, lampholder, 2x	CZ.367.900	- Knob, control, 4x	CS.432.623
	Assembly, pulley spindle, 2x	CR.436.206	Nipple, sl. rod. adj.	CS.274.603
	Assembly, pulley spindle	CR.436.208	Plate, lampholder mtg.	CS.240.021
5	Assembly, tuning spindle	CR.371.320	3 Pulley, dial, 4x	CS.359.602
_	Back, cabinet	CS.462.089	— Ring, C (tuning spindle)	CS.281.802
_	Badge, Philips	CS.436.416	6 Ring, dial cord	CS.281.807
_	Bracket, gang mtg.	CS.224.609	Rod, dial slide	CS.382.213
-	Bracket, cab. back mtg., 4x	CS.244.602	Scale, dial	CS.412.364
_	Cabinet	CS.460.505		
	Clip, coil can mtg., 6x	CS.235.833	Socket, valve (noval wafer), 5x	
	Clip, dial scale R.H.	CS.227.004	· 2 Spring, dial drum	C\$.210.010
	Clip, dial scale L.H.	CS.227.003	Strip, masking	CS.050.413
_	Cloth, baffle	CE.081.85	Switch, mains on/off	CZ.210.109
4	Cord, dial drive	CS.361.829	- Switch, tone control	CZ.200.236
1	Drum, dial .	CS.360.006	 Washer, felt (knobs), 4x 	CS.424.056
			DIAL CORD LAYOUT VIEW FROM REAR OF CHASSIS.	
3	1 ³ / ₄ TU	RNS AROUND :	SPINDLE,	3

