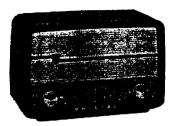
Cabinet

PHILIPS RADIOPLAYER

MODEL 166 SPECIFICATIONS

(Subject to al	teration	without notice)	
		200-250V, 40-50 c/	/s
Tuning Range		530-1620 kc/s.	
Intermediate Frequency		455 kc/s.	



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Bakelite mantel

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts		
Frequency Converter	VI	6AN7	210	5 5	55		
I.F. Amplifier, Demodulator and A.V.C.	V2	6N8	210	55	_		
Power Amplifier	V3	6M5	208	210	_		
Rectifier	V4	6V4	V4 cathode — L13 C.T., 232				
Dial Lamp	VII		5.3V, 0.32A	tubular scre	*		
	Voltage acros	s R13,6.7	v				

NOTE: These voltages are measured with an "1,000 chms per volt" meter and may vary ± 10% from the figures quoted. They are measured from the socket points indicated to chassis or across the resistors listed. The receiver should be in a

TO REMOVE CHASSIS FROM CABINET.

Remove the power plug from the wall outlet socket. Pull the control knobs from their spindles. Remove the combined back and bottom cover. Unsolder the speaker voice coil connections from the lug strip alongside the output transformer. Unwind the dial cursor from the dial drive cord.

The chassis is held to the cabinet by two screws at the rear. Removal of these two screws and the associated mounting brackets and packing pieces allows the chassis to be withdrawn from the cabinet leaving the speaker and dial scale in the cabinet.

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

DIAL SCALE REMOVAL

The dial scale is removed from the front of the cabinet. The control knobs must first be withdrawn. In removing the dial scale securing screws, care must be taken to ensure that damage is not caused to the scale by tools.

ALIGNMENT.

By making use of short length tools, alignment can be undertaken with the chassis in the cabinet.

Before commencing R.F. alignment, fully close the tuning capacitor and set the dial cursor to the stop mark which will be found at the bottom of the dial scale at the low frequency end. Use an 100 pF capacitor as dummy aerial for R.F. alignment. Trimming adjustments are: oscillator trimmer (1,420 kc/s, 3XY) front of tuning capacitor, aerial trimmer (1,420 kc/s) rear of tuning capacitor, padding 600 kc/s, 7ZL) iron core in oscillator coil.

In the event of replacement of the oscillator coil, it is advisable to make a preliminary peaking of the iron core at 600 kc/s before commencing alignment.

No attempt should be made to adjust the aerial coil iron core.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two primary winding tappings—200/230 volts and 240/250 volts—for adjustment of the receiver to the supply voltage at the point of installation. The receiver is adjusted at the factory to the 240/250 volts tapping.

DIAL CALIBRATION ADJUSTMENT.

If dial calibrations are incorrect over the dial scale by an equal amount, the error can be corrected by sliding the cursor on the dial cord to the correct position.

		Pul	blished by	Philip	s Electri	cal	Industries	Pty.	. Limit	ted		
		_	Melbourne	-	Brisbane		Adelaide		Perth	_	Hobart	
ARCH,	1958										HARMAN & JACK	

PARTS LISTS

COILS	Description Cade No.	Aerial coil CZ.323.019	Oscillator coil CZ.330.606	1st I.F. transformer A3.126.84	2nd I.F. transformer A3.126.84	Output transformer 7,000 chms Type EBG96 ·	ter Type 5C, F87	Power transformer CZ.344.084		! When ordering spare CODE NUMBER of part NUMBER of Receiver.	free replacement under return defective part and quote MODEL and	R of Receiver and HASE.
O	No. Ohms D	L1 24.0-32.5 Aeria	L3 1.0-2.0 Socill	L5 8.0-9.0 } 1st l, L6 4.7-5.2 }	L7 8.0-9.0 2nd I	19 Cutpu	L11 Speaker	L12 55-75 Power L13 630-850 Power L14 <1		IMPORTANT! W parts, quote COD and MODEL NU	ija ∵†EÉ,	SERIAL NUMBER of DATE OF PURCHASE
RESISTORS	Description Code No.	22,000 ohms ½W carbon	47,000 ohms 1W carbon	2.2 megohms ¼W carbon	560,000 ohms 1W carbon 10%	0.5 megohm carbon potentiometer with stop	at 100,000 ohms and S.P.S.T. switch CZ.032.019	470,000 ohms 4W carbon	47,000 ohms ¼W carbon	1,000 ohms 1W carbon	160 ohms 1W W/W 10%	All tolerances are 20% unless otherwise stated.
	No. Des	R1 22,00	R2, 3 47,00	R4,8 2.2 m	R5 560,0	R6, 7 0.5 m	SP	R9, 10 470,00	R11 47,000	R12 1,000	R13 160 of	All tolerances are 20
CAPACITORS	Description Code No.	100pF mice	2 gang tuning and trimmers CZ.107.756	330 pF mics 2% CZ.066.124	Part of I.F. transformers	0.047 mF 400V paper		0.04 mF 200V paper 220 pF mica	0.22 mF 100V paper	0.01 mF 400V paper	24 mF 350V electrolytic	All tolerances are 20% unless otherwise stated.
	Š.	ū	C2, 3, 4, 5	8	C7, 8, 11,	ච		C13, 14	CIS	912	C17, 18	All tolerance

MISCELLANEOUS COMPONENTS

	Dial Cord Drawing Description	Code No.	No. on Dial Cord Layout Drawing Description	on Code No.
7	Assembly, cursor	CR.480.662	Clip, spring, I.F.T.	mtg., x2 A3.652,58
-	Assembly, lampholder	CZ.367.920	4 Cord, dial drive	37" of cord required
	Back, cabinet, coral	CS.462.681	l Drum, dial	CS.359.810
-	Back, cabinet, grey	CS.462.680	 Knob, control, x2 	CR.523,731
_	Back, cabinet, ivory	CS.462.624	 Lug strip, speaker tra 	insformer C/F 245-2-6
	Back, cabinet, red	CS.462.679	— Philips name	CS.436.446
_	Badge, Philips	CR.531.422	8 Post	CS.237.019
	•	CR.351.422	— Prism, dial scale	23.678.74
_	Bracket, cabinet back mtg., x3	CS.244.602	5 Pulley, dial	CS.359.618
	Bracket, chassis retaining, x2	CS.225.229	— Ring "C," tuning spi	indle, x2 CS.281.802
	Bracket, speaker mounting, x3	CS.233.505	6 Ring, dial cord	C\$.281,807
_	Cabinet, with grille, badge, dec.	strip	Scale, dial	CS.412.393
	and Philips name-		 Screw, dial scale mtg. 	., x2 CS.258.856
	Coral	CR.573.513	3 Spindle, tuning	CS.351,359
	Grey	CR.573.516	 Spring, dial drum 	CS.210.029
	Ivory	CR.573.515	Spring, knob retaining	
	Red	CR.573.517	- Strip, decorative	CS.430.920

