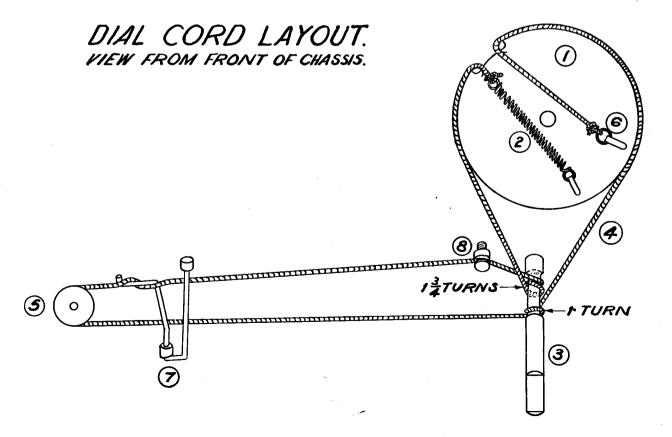
## MISCELLANEOUS COMPONENTS

	Dial Cord Drawing	Description	Code No.	No. on D Layout D		Description	n	Code No.
7	Assembly, cur	sor	CR.480.662	<del></del>	Clip, spring	(I.F.T. mt	g.), 2x	A3.652.58
,				4	Cord, dial dri	ve	37" of 6	cord required
_	Assembly, lam	pholder	CZ.367.920	1	Drum, dial			CS.359.806
	Badge, Philips		CS.436.425		Knob, contro	l, 2x		CR.523.711
	Bracket, cabir	net back mtg, 3x	CS.244.602		Prism, dial se	cale		23.678.74
	Cabinet with	grille and badge	_	5	Pulley, dial			CS.359.602
	Blue	gime una baago	CR.570.556	6	Ring, dial co	rd	•	CS.281.807
	Burgundy	· •	CR.570.555		Scale, dial			CS.412.393
	C		CD 570 557		Screw, dial s	scale mtg.,	2x	CS.258.852
	Green		CR.570.557	3	Spindle, tuni	ng		CS.351.358
	lvory		CR.570.554	2	Spring, dial	drum		CS.210.029
	Walnut		CR.570.553		Spring, knob	retaining,	2x	CS.281.832

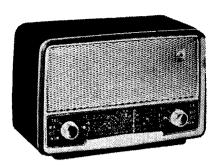


# PHILIPS RADIOPLAYER

# MODEL 164 SPECIFICATIONS

(Subject to alteration without notice)

Power Supply		•···•		200-250V, 40-50 c/s.
Tuning Range			•••••	530-1 <b>62</b> 0 kc/s.
Intermediate Frequ	ency	•		455 kc/s.
Cabinet				Bakelite mantel



### VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	VI	6AN7	210	55	55
I.F. Amplifier, Demodulator and A.V.C.	V2	6N8	210	55	_
Power Amplifier	V3	6M5	208	210	
Rectifier	V4	6V4	V4 cathod	e L13 C.	T., 232V.
Dial Lamp	VII		6.3V, 0.32A	tubular scre	w
,	Voltage across	s R13, -6.7V	,		

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 indicated to chassis, or across the resistor listed. The receiver should be in a "no signal" condition.

#### TO REMOVE CHASSIS FROM CABINET.

Remove the power plug from the wall outlet socket. Pull the control knobs from their spindles. Remove the combined cabinet 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 the two screws and the associated mounting brackets and packing pieces allows the chassis to be withdrawn from the cabinet, leaving speaker and dail 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 removed. In removing the two dial scale securing screws, care must be used to ensure that damage is not caused to the scale by tools. The best tool to use is a 9/32" spintite blinded off so that its face does not touch the scale.

#### ALIGNMENT.

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

I.F. transformer adjustments are:—
2nd I.F.T.—
Secondary — front screw
Primary — rear screw
1st I.F.T.—
Secondary — screw nearer 6N8
Primary — screw nearer 6AN7

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 100pF 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.

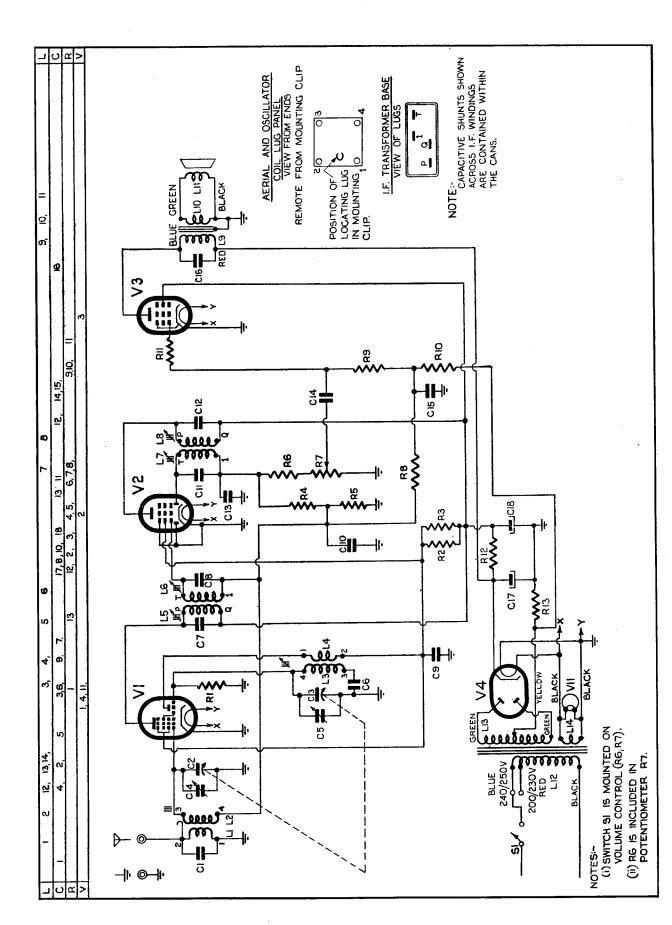
#### MAINS VOLTAGE ADJUSTMENT

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.

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	CAPACITORS		RESISTORS		COILS	
o Z	Description Code No.	Š	Description Code No.	No. Ohms	Description	Code No.
CI	100 pF mica	RI	22,000 ohms ½W carbon	L1 24.0-32.5 L2 2.0-3.0	Aerial coil	CZ.323.019
C2, 3, 4, 5	2 gang tuning and CZ.107.749	R2, 3	47,000 ohms 1W carbon	L3 1.0-2.0 }	Oscillator coil	CZ.330.606
. 93	330 pF mica 2% CZ.066.124	R4, 8	2.2 megohms ½W carbon	L5 11.5-15.5 L6 11.5-15.5	, 1st I.F. transformer	A3.124.25
C7, 8, 11,	Dort of 15 transformers	R5	560,000 ohms ½W carbon	L7 11.5-15.5 }	2nd 1.F. transformer	A3.124.25
7		R6, 7	0.5 megohm carbon	L9 {	Output transformer 7,000 ohms	Type EBG96
6)	0.05 mF 400V paper		potentiometer with stop	L11	Speaker	Type 5C, F87
C10, 14	0.05 mF 200V paper		S.P.S.T. switch CZ.032.013	L12 55-75 L13 630-850	Power transformer	CZ.344.084
C13	250 pF mica	R9, 10	470,000 ohms ½W carbon	L14 <0.5		
C15	0.25 mF 200V paper	° R11	47,000 ohms ½W carbon			
C16	0.01 mF 400V paper	R12	1,000 ohms 1W carbon	IMPORTANT ? quote CODE	In ordering sy NUMBER of BER of Rece	are parts, part and iver. In
C17, 18	24 mF 350V electrolytic	R13	160 ohms 1W W/W 10%	アスピ	replace return of quote	֡֞֟֓֓֓֟֓֓֓֓֓֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓
All toleran	All tolerances are 20% unless otherwise stated.	Ail tolerar	tolerances are 20% unless otherwise stated.	SERIAL N DATE OF I	NUMBER of Receiver : PURCHASE.	ver and