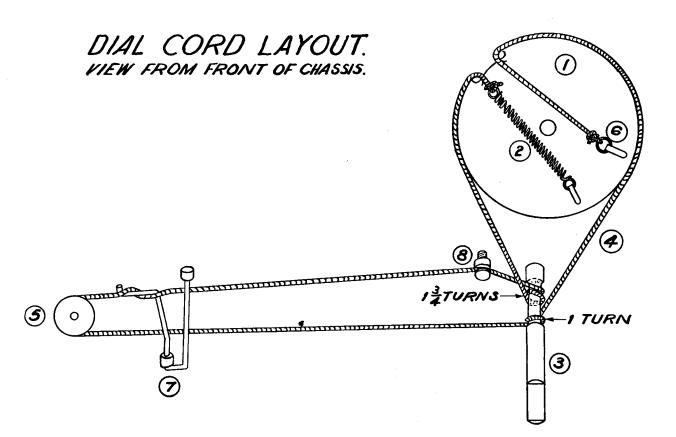
MISCELLANEOUS COMPONENTS

No. on D Layout I		Code No.	No. on D Layout	Dial Cord Drawing	Description	n	Code No.
7	Assembly, cursor	CR.480.662		Clip, spring	(I.F.T. mtg	g.), 2x	A3.652.58
,	7.535/mb.y, 54.55/	G	4	Cord, dial d	Irive	37" of 6	cord required
	Assembly, lamphoider	CZ.367.920	1	Drum, dial			CS.359.806
	Badge, Philips	CS.436.425	_	Knob, contro	ol, 2x		CR.523.711
_	Bracket, cabinet back mtg., 3x	CS.244.602		Prism, dial	scale		23.678.74
			5	Pulley, dial			CS.359.602
_	Cabinet, with grille and badge— Blue	– CR.570.561	6	Ring, dial	cord		CS.281.807
	Burgundy	CR.570.560	-	Scale, dial			CS.412.393
	barganay			Screw, dial	scale mtg.,	2x	CS.258.852
	Green	CR.570.562	3	Spindle, tur	ning		CS.351.358
	Ivory	CR.570.559	2	Spring, dial	drum		CS.210.029
	Walnut	CR.570.558	·	Spring, kno	b retaining,	2x	CS.281.832

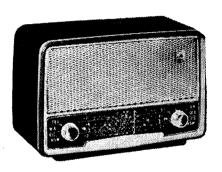


PHILIPS RADIOPLAYER

MODEL 165 SPECIFICATIONS

(Subject to alteration without notice)

Power Supply	 •	200-250V, 40-50 c/s.				
Tuning Range	 	530-1620kc/s.				
Intermediate Frequency	 •	455 kc/s.				
Cabinet	 	Bakelite mantel				



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts	Bias Volts		
Frequency Converter	VI	6AN7	223	40	40	_		
I.F. Amplifier	V2	6BH5	223	40		_		
Audio Amplifier, A.V.C. and Demodulator	V3	6BD7	55	_				
Power Amplifier	V4	6M5	221	223	_	6.5		
Rectifier	V5	6V4	Cathode — L13 C.T., -239V.					
Dial Lamp	VII	V11 6.3V, 0.32A tubular screw						
	Voltag	e across R13,	-2.7 <u>V</u> .					

NOTE: These voltages are measured with an "1,000 ohms pervolt" 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 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 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 removed. In removing the dial scale securing screws, care must be taken 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 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.

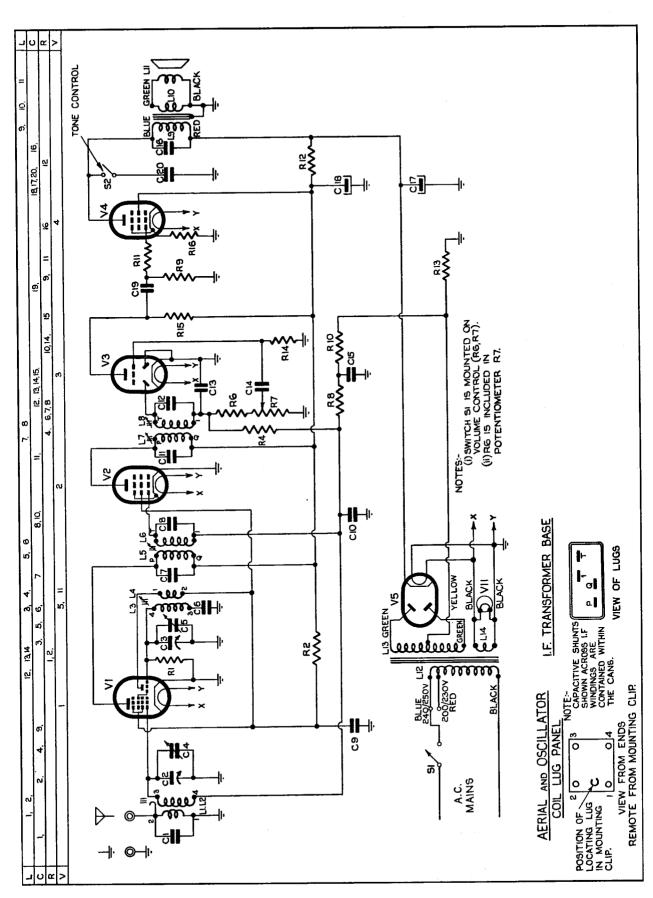
MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two primary winding tappings-200/230 volts and 240/250 voltsfor 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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RESISTORS	Description Code No. Ohms Description Code No.	22,000 ohms ½W carbon L2 2.0-3.0 } Aerial coil CZ.323.019	47,000 ohms 1W carbon L3 1.0-2.0 Socillator coil CZ.330.606 L4 3.5-5.0 Socillator coil	3.3 megohms ½W carbon L5 11.5-15.5 { lst I.F. transformer A3.124.25 L6 11.5-15.5 }	h stop L7 CZ.032.013 L8	2.2 megohms ½W carbon L9) Output transformer Type EBG96	l megohm ½W carbon L11 Speaker Type 5C, F87	55-75	1,000 ohms 1W carbon L13 630-850 \rangle Power transformer CZ.344.084 \rangle	75 ohms ½W W/W 10%		ANT! In ordering spare CODE NUMBER of part NUMBER of Receiver.	200 ohms ½W W/W 10% GUARANTEE, return defective part PROMPTLY and quote MODEL and	
	Š	R	R2	R4, 10	o'	88 88	R9	R11	R12	R13	R1 4	R15	R16	
CAPACITORS	Description Code No.	100 pF mica	2 gang tuning with CZ.107.749	330 pF mica 2% CZ.066.124	Part of I.F. transformers	0.05 mF 400V paper	0.05 mF 200V paper	250 pF mica	0.02 mF 400V paper	0.01 mF 600V paper	24 mF 350V electrolytic	0.005 mF 600V paper	0.02 mF 600V paper	
	ġ		C2, 3, 4, 5	99	C7, 8, 11,	S	C10, 15	C13	C14	C16	C17, 18	C19	C20	