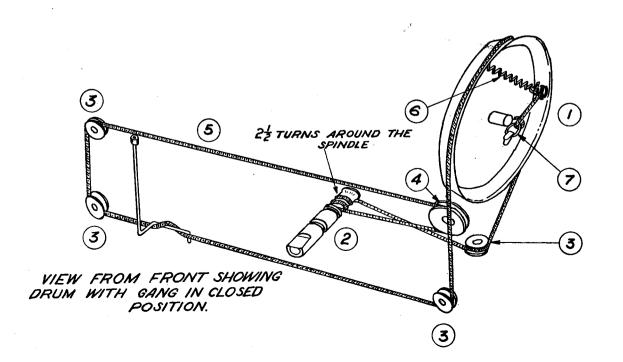
MISCELLANEOUS COMPONENTS

Ma aa	Dial Cord		No. on D	ial Cord		
	Drawing Description	Code No.	Layout [Description	Code No.
	Assembly, cabinet grille and overlay	CR.520.832	5	Cord, dial dri	ive 50" of	cord required
	Assembly, cursor	CR.480.657	1	Drum, dial),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CS.360.005
	Assembly, lampholder	C/F 733.8.1		Gear, driving gearwheels	W/C and T/C s, 2x	CS.354.202
	Assembly, W/C clicker	CR.450.045		Gearwheel, V spindles, 2	V/C and T/C x	CS.354.201
_	Assembly, W/C switch	CZ.200.238		Knob, inner		CS.432.658
	Badge, Philips	CS.436.425		Knob, outer		CR.523.711
_	Bank, W/C switch	CZ.200.213	3	Pulley, dial	drive, 4x	CS.359.612
	Cabinet and grille, burgundy	CR.570.569	4	Pulley, dial	drive, 1x	CS.359.602
_	Cabinet and grille, ivory	CR.570.568	_	Scale, dial		CS.412.392
-	Cabinet and grille, walnut	CR.570.570	_	Sleeve, gear	driving (dog), 2x	CS.381.870
_	Clip, gear wheels and knobs, 4x	CS.281.832	2	Spindle, tuni	ng	CS.351.243
	Clip, spring (I.F.T. mtg.), 2x	A3.652.58	6	Spring, dial o	cord	CS.210.020



Wallen

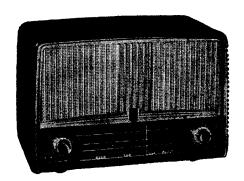
PHILIPS RADIOPLAYER MODEL 161

SPECIFICATIONS

(Subject to alteration without notice)

Power Supply 200-250V, 40-50 c/s.
Tuning Ranges B/C band, 530-1620 kc/s.
S/W band, 5.85-12.2 Mc/s.

Intermediate Frequency 455 kc/s. Cabinet Plastic table.



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts						
VI	6AN7	235	53	95						
V2	6BH5	235	53							
V3	6BD7	70								
V4	6M5	240	235							
V5	6V4	6V4 V5 Cathode — L17 C.T., 256\								
VII										
	No. V1 V2 V3 V4 V5	No. Type V1 6AN7 V2 6BH5 V3 6BD7 V4 6M5 V5 6V4	No. Type Volts V1 6AN7 235 V2 6BH5 235 V3 6BD7 70 V4 6M5 240 V5 6V4 V5 Cath	No. Type Volts Volts V1 6AN7 235 53 V2 6BH5 235 53 V3 6BD7 70 — V4 6M5 240 235 V5 6V4 V5 Cathode — L17 C.						

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 resistors listed. The receiver should be in a "no signal" condition.

TO REMOVE CHASSIS FROM CABINET.

Remove the power plug from the wall outlet socket. Remove the cabinet back (6 screws) and unplug the aerial loop. Remove the two top speaker mounting screws. Remove the four chassis mounting screws from the counter bored holes in the base of the cabinet. The chassis may now be withdrawn from the cabinet.

Refitting of the chassis is a reversal of the above procedure.

If it is necessary to turn the cabinet face downwards during service work, some soft protective material should be used over the work area.

ALIGNMENT.

Alignment may be carried out without the necessity of removing the chassis from the cabinet. There is a variation in the position of the B/C oscillator padding adjustment within this model — refer to the trimmer location drawings shown as insets to the circuit diagram drawing.

Because of the noise pick-up of the aerial loop, it will be found advisable to either carry out alignment without the loop in position, or else to desensitise the receiver. If the loop is removed, its place should be taken by a 50,000 ohms carbon resistor connected between the red and yellow or blue leads. To desensitise the receiver, connect a 25,000 ohms 1 watt 10% carbon resistor and a 0.1 mF 200V. 20% paper capacitor in series across the secondary of the first 1.F. transformer.

Before attempting alignment, set the dial cursor, with the tuning gang fully closed, to the right-hand edge of the 49M band block.

I.F. transformer adjustments are:—
2nd I.F.T.—
Secondary — nearer 6H15
1st I.F.T.—
Secondary — nearer 6BH5
Primary — nearer 6AN7

For broadcast band alignment: when the loop is in position use a 50 pF capacitor as dummy; if the loop has been removed use the standard I.R.E. dummy. Because of the interdependence of oscillator coil coupling windings, it is essential that the broadcast adjustments be made before the short wave adjustments. Broadcast band alignment frequencies are: 1,420 kc/s (oscillator trimmer and loop trimmer), and 600 kc/s, 7ZL (oscillator padding). Short wave band alignment frequencies are: 6.1 Mc/s, small peaked mark above "9" in 49M block (oscillator padding), and 11.85 Mc/s, small peaked mark between "2" and "5" in 25M block (oscillator trimmer and aerial trimmer, the latter with rocking of the tuning gang).

The broadcast aerial loop trimmer should be adjusted only with the loop in its normal operating position.

If an oscillator coil has been replaced, it is advisable to make a preliminary peaking of the iron core at 600 kc/s or 6.1 Mc/s, as the case may be, before proceeding with normal alignment procedure.

No attempt should be made to adjust the iron core of the S/W aerial coil.

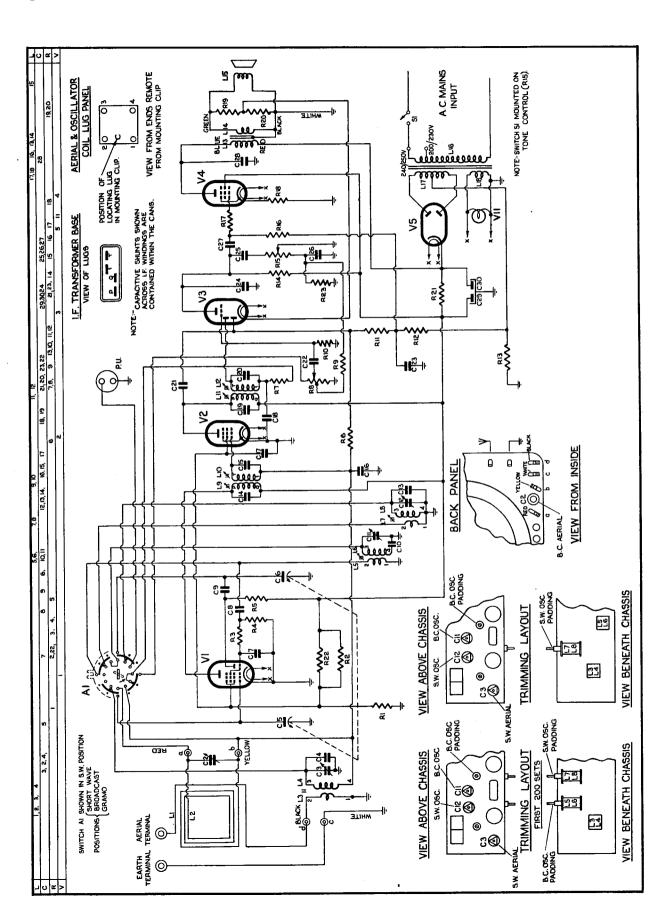
DIAL CALIBRATION ADJUSTMENT.

If dial calibrations are incorrect over the dial scale by an equal amount, the condition can be corrected by sliding the cursor on the dial cord. An access hole for this purpose is provided in the base of the cabinet.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two primary winding tappings—200/230 volts and 240/250 volts—to allow of 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.

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PARTS LIST

COILS	No. Ohms Description Code No.				L5 0.9-1.1 B/C oscillator coil CZ.330.612		1st I.F. transformer			L13 Cutput transformer Type HCG76	L14 Speaker Type 5-7H, F86	L16 28-38 ₎	305	, I> × 1		ng spare p	quote CODE NUMBER of part and	free replacement un	\vdash	SERIAL NUMBER of Receiver and DATE OF PURCHASE.
RESISTORS	No. Description Code No.	R1, 2 47,000 ohms 1W carbon	R3 270 ohms ½W carbon 10%	R4, 7 47,000 ohms ½W carbon	R5 33,000 ohms 1W carbon	R6, II I megohm ½W carbon	R8 0.5 megohm tapped carbon potentiometer CZ.029.145	R9 10,000 ohms ½W carbon 10%	R10 10 megohms ½W carbon	R12 0.56 megohm ½W carbon 10%	R13 27 ohms ½W W/W 10%	R14 0.22 megohm ½W carbon	- 5	potentiometer CZ.032.600 R16 0.47 meachm 4W carbon 10%					.,	Unless otherwise stated, all tolerances are 20%
CAPACITORS	No. Description Code No.	C2 50 pF compr. trimmer	C3, 12 30 pF air trimmer CZ.113.700	C4 95 pF mica 2½% CZ.064.512	C5, 6 2 gang tuning CZ.107.746	C7 10 pF mica	C8, 9, 18, 24 100 pF mica	C10 450 pF mica 2% CZ.066.117	C11 60 pF air trimmer 49.005.58	C13 60 pF mica 2½% CZ.064.514		20 Part of I.F. transformers	C16 0.1 mF 200V paper	C17, 26 0.02 mF 400V paper	C21 30 pF mica	C22, 25 0.01 mF 400V paper	C23 0.05 mF 200V paper	C27, 28 0.005 mF 600V paper	C29 8+24 mF 350V dual electrolytic CZ.099.913	Unless otherwise stated, all tolerances are 20%