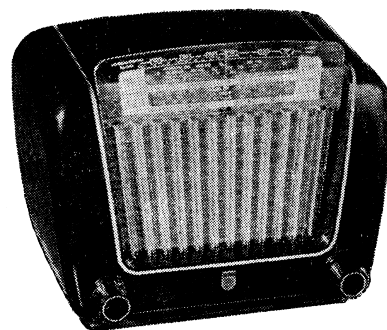


PHILIPS RADIOPLAYER

MODELS 135 & 135A

NOTE: Models 135 and 135A differ from one another only in the types of I.F. transformers used. Refer to "Coils" Section of "Parts Lists" for details.



SPECIFICATIONS

(Subject to alteration without notice)

Power Supply	220-260V, 40-60c/s.
Tuning Ranges	530-1620kc/s. 5.9-18.4Mc/s.
Intermediate Frequency	455kc/s.
Cabinet	Bakelite Mantel

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	V1	6AN7	210	50	100
I.F. Amplifier, A.V.C., Demodulator and 1st Audio	V2	6N8	150	50	—
Power Amplifier	V3	6M5	218	210	—
Rectifier	V4	EZ82	V4 Cathode — L18 C.T., 240V		
Dial Lamp	V11	6.3V 0.32A tubular screw			
Voltage across R18, -1.2V; across R17 and 18, -6.4V.					

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 mains outlet socket. Remove the control knobs (a firm pull is all that is necessary) and the lever control knobs (the tone control knob will slide right off the volume control spindle, but the wave change knob will remain captive and cannot be removed until the chassis is withdrawn). Slide the dial cursor from its carriage (a direct upward pull is required). Remove the combined cabinet back and bottom cover. The chassis is held to the cabinet by four screws — two through the baffle plate and two through the bottom of the chassis—removal of these screws permits the chassis to be withdrawn from the cabinet. On removal of the chassis, recover the wave change lever knob.

Refitting the chassis is a reversal of the removal operations. Before attempting to refit the chassis, place the wave change lever knob in the correct control hole from inside the cabinet.

MAINS VOLTAGE ADJUSTMENT.

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

ALIGNMENT.

It is not necessary to remove the chassis from the cabinet for carrying out alignment. Before commencing alignment operations, set the dial cursor, with the tuning gang fully closed, to the 530 kc/s mark on the frequency section of the dial scale.

In Model 135, the cores for the primaries of the I.F. transformers are in the bottom of the cans, those for the secondaries are in the top. In Model 135A, the adjustments for the slugs for both windings are accessible from the top of the cans.

Broadcast alignment frequencies are 600 kc/s and 1,420 kc/s. Shortwave alignment frequencies are 6 Mc/s (oscillator coil slug), 17.8 Mc/s (aerial trimmer-rock tuning gang) and 18.4 Mc/s (tuning gang fully open, oscillator trimmer). **Do not attempt to adjust the iron cores of either aerial coil.**

DIAL CALIBRATION ADJUSTMENT.

If station calibrations are incorrect by an equal amount over the length of the scale, the condition may be corrected by loosening the cursor carriage to dial cord clamping screw, making the necessary adjustment and firmly retightening the screw.

TO REMOVE DIAL SCALE.

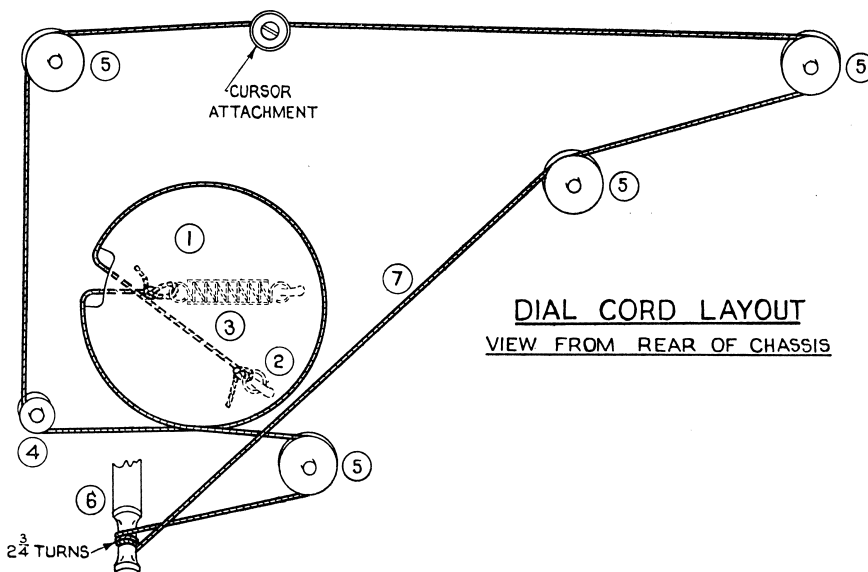
To remove the dial scale it is necessary to remove the chassis from the cabinet. The scale is fixed to the cabinet by two screws toward the top, and two screws and a bracket toward the bottom. The scale should be withdrawn from inside the cabinet.

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MISCELLANEOUS COMPONENTS

No. on Dial Cord Drawing	Description	Code No.
—	Assembly, baffle	CR.005.015
—	Assembly, cursor	CR.480.651
—	Assembly, cursor carriage	CR.432.217
—	Assembly, dial clamping bracket	CR.255.600
—	Assembly, lampholder	CZ.367.920
—	Assembly, pulley spindle bracket	CR.265.211
—	Assembly, pulley spindle bracket	CR.265.212
—	Assembly, W/C clicker	CR.450.041
—	Assembly, 2 lug strip	A1.358.56
—	Assembly, 3 lug strip	A1.352.63
—	Assembly, 5 lug strip	CZ.375.210
—	Back, cabinet	CS.462.146
—	Badge, Philips	CS.436.416
—	Ball, steel 3/16" (W/C switch)	CH.760.015
—	Bank, W/C switch	CZ.200.048
—	Bracket, ball spring (W/C switch)	CS.222.497
—	Bracket, cabinet back mounting	CS.244.603
—	Bracket, gang mounting (2 grommet mount)	CS.230.618
—	Bracket, gang mounting (1 grommet mount)	CS.232.030
—	Bracket, retaining (W/C switch)	CS.229.615
—	Cabinet, blue	CR.570.455
—	Cabinet, ivory	CR.570.457
—	Cabinet, green	CR.570.456
—	Cabinet, burgundy	CR.570.458
—	Cabinet, walnut	CR.570.447
—	Clip, coil can mounting	CS.235.833
—	Clip, speed (control knob)	CH.777.370
—	Cloth, baffle	CE.081.83
7	Cord, dial drive	CS.361.821
—	Disc, retaining (W/C switch)	CS.233.815
1	Drum, dial	CS.359.806
—	Knob, control, blue	CS.432.635
—	Knob, control, ivory	CS.432.633
—	Knob, control, green	CS.432.634
—	Knob, control, burgundy	CS.432.645

No. on Dial Cord Drawing	Description	Code No.
—	Knob, control, walnut	CS.432.631
—	Knob, T/C lever, blue	CS.432.809
—	Knob, T/C lever, ivory	CS.432.808
—	Knob, T/C lever, green	CS.432.810
—	Knob, T/C lever, burgundy	CS.432.806
—	Knob, T/C lever, walnut	CS.432.805
—	Knob, W/C lever, blue	CS.432.815
—	Knob, W/C lever, ivory	CS.432.814
—	Knob, W/C lever, green	CS.432.816
—	Knob, W/C lever, burgundy	CS.432.812
—	Knob, W/C lever, walnut	CS.432.811
—	Nipple, slide rod adj.	CS.274.603
4	Pulley, brass	CS.360.205
5	Pulley, plastic	CS.359.602
2	Ring, dial cord	CS.281.807
—	Rod, dial slide	CS.382.222
—	Scale, dial, cream and brown, Vic./Tas.	CS.412.348
—	Scale, dial, cream and brown, S.A./W.A.	CS.412.350
—	Scale, dial, cream, Qld./N.S.W.	CS.412.358
—	Scale, dial, cream, Vic./Tas.	CS.412.347
—	Scale, dial, cream, S.A./W.A.	CS.412.349
NOTE: Cream and brown coloured scales for ivory cabinet, except Qld./N.S.W. Cream coloured scales, for walnut, burgundy, blue and green cabinets, with variation in the case of Qld./N.S.W., which uses cream coloured scale for all cabinets.		
—	Screw, lampholder mounting	CS.259.800
—	Socket, noval wafer	CZ.369.702
—	Spacer, speaker mounting, 3X	CS.214.429
6	Spindle, tuning	CS.351.330
—	Spring, ball retaining (W/C switch)	CS.211.817
3	Spring, dial drum	CS.210.029
—	Switch, on/off	28.650.25
—	Switch, tone control	CZ.210.107
—	Washer, felt (W/C switch)	CS.424.072



PARTS LISTS

CAPACITORS

No.	Description	Code No.
C1-2	2 gang tuning	CZ.107.746
C3-9-10	100 pF mica	
C4-5-12-13	30 pF air trimmer	CZ.113.700
C7-21	0.1 mF 200V paper	
C8-31	10 pF mica	
C11	475 pF mica 2%	CZ.066.119
C14-15	Part of 1st I.F. transformer	
C17	0.1 mF 400V paper	
C18	0.002 mF 600V paper	
C19	20 pF mica	
C20-22	300 pF mica	
C23-24	Part of 2nd I.F. transformer	
C25-28	24 mF 350V electrolytic	
C26	0.01 mF 600V paper	
C27	0.02 mF 400V paper	
C29	0.001 mF 600V paper	
C30	0.06 mF 400V paper	

RESISTORS

No.	Description	Code No.
R1	50,000 ohms 1W carbon	
R2	30,000 ohms ½W carbon	
R3	250 ohms ½W carbon	
R4	30,000 ohms 1W carbon	
R5-10	0.5 megohms ½W carbon	
R6-7-9	2 megohms ½W carbon	
R8-11	100,000 ohms ½W carbon	
R12	0.5 megohm carbon potentiometer	CZ.030.504
R13	15,000 ohms 1W carbon	
R14	0.5 megohm ½W carbon 10%	
R15	50,000 ohms ½W carbon	
R16	2,000 ohms 1W carbon	
R17	130 ohms ½W carbon	
R18	30 ohms ½W carbon	

COILS

No.	Ohms	Description	Code No.
L1	31	S/W Aerial Coil	CZ.323.013
L2	2.5	(1 yellow and 1 black spots)	
L3	1.5	B/C Aerial Coil	CZ.323.014
L4	<0.5	(1 green and 1 black spots)	
L5	15	S/W Oscillator Coil	CZ.330.605
L6	47	(1 red and 1 black spots)	
L7	<0.5	B/C Oscillator Coil	CZ.330.604
L8	<0.5	(1 yellow and 1 white spots)	
L9	12.0	1st I.F. Transformer—	CZ.320.421
L10	12.0	135	A3.124.25
L11	12.0	2nd I.F. Transformer—	CZ.320.420
L12	12.0	135	A3.124.25
L13	550.0	Output Transformer	CZ.345.008
L14	<0.5		
L15	3.6	Speaker	49.239.58
L16	63		
L17	<0.5	Power Transformer	CZ.344.046
L18	690		
L19	<0.5		

IMPORTANT! In ordering spare parts, quote CODE NUMBER of part and MODEL NUMBER of Receiver. In claiming free replacement under GUARANTEE, return defective part PROMPTLY and quote MODEL and SERIAL NUMBER of Receiver and DATE OF PURCHASE.

