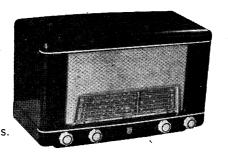
PHILIPS RADIOPLAYER MODELS 133 & 133A

SPECIFICATIONS

(Subject to alteration without notice)





NOTE: Models 133 and 133A are identical except for the rectifier valve types — Model 133 uses type 6X5GT; Model 133A uses type EZ82.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	VI	6AN7	225	30	80
I.F. Amplifier, A.V.C. and Demodulator	V2	6N8	225	72	
Audio Amplifier	V3	6N8	50		·
Power Amplifier	V4	6M5	210	225	
Rectifier	V5	(133) 6X5GT (133A) EZ82	Cathode	— L17 C.T	., 261V
Dial Lamps	V11 & V12	6.3V 0	.32A tubular	screw	
Voltage across R23, -2.0V; ac	ross R23 and	R24, -6.4V			

NOTE: These voltages are measured with an "1,000 ohms per volt" meter and may vary $\frac{+}{}$ 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 supply outlet socket. Remove the four control knobs (a firm pull is all that is necessary) and the cabinet back. The chassis is held to the cabinet by two screws in the baffle and four screws through the bottom of the cabinet. Removal of these six screws enables the chassis to be withdrawn from the cabinet.

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

DIAL CALIBRATION.

If it is required to correct dial calibration for an equal error on all stations, provision is made for moving the cursor assembly with respect to the dial cord. Loosen the clamping screw, make the necessary adjustment to the cursor position and securely retighten the clamping screw.

MAINS VOLTAGE ADJUSTMENT.

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

ALIGNMENT.

The iron cores for the secondaries of the I.F. transformers are in the top of the cans, those for the primaries are in the bottom.

Broadcast band alignment frequencies are 1,420 kc/s (oscillator and aerial trimmers) and 600 kc/s (slug padding); short wave band alignment frequencies are 18.4 Mc/s (tuning gang fully open, oscillator trimmer) and 17.8 Mc/s (aerial trimmer).

The alignment calibration scale is stencilled on the dial drum. An auxiliary pointer for use with this scale can be made up from workshop materials and fixed to a convenient point of the tuning capacitor mounting bracket. The various markings of the scale can be identified as below.

Proceeding in an anti-clockwise direction around the dial drum, the various points are:—

"Stop"
550 kc/s (large dot)
600 kc/s (large and small dots together)
then 100 kc/s steps to 1,300 kc/s
1,420 kc/s (large and small dots together)
1,500 kc/s

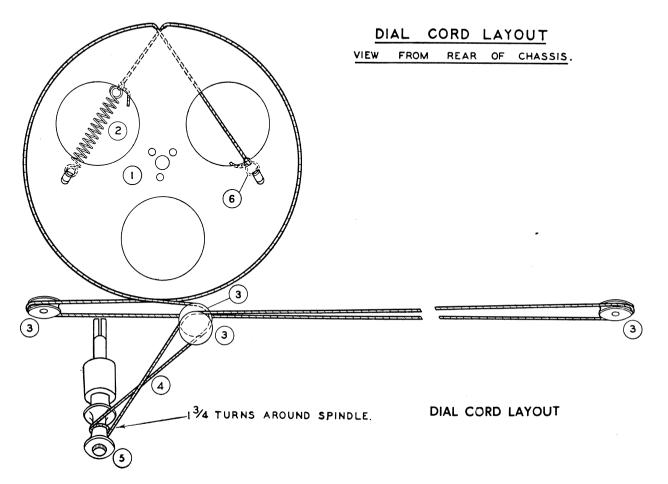
Do not attempt to adjust the iron cores of the aerial coils

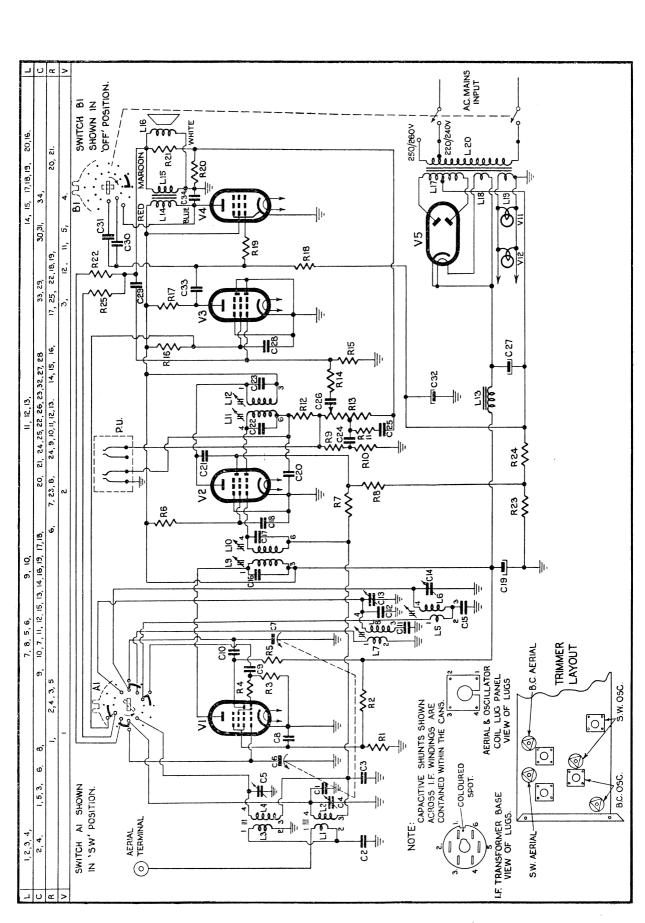
DIAL SCALE.

There are two types of dial scale available with this receiver, one of perspex and the other of glass. The perspex scale is fitted to the cabinet by means of screwed-in clamps, whilst the glass scale is fitted by means of spring clips. If a receiver fitted with a glass scale is to be transported any distance, it would be to advantage to remove the scale and pack it separately.

MISCELLANEOUS COMPONENTS

No.	on Dial			No.	on Dial		
Parts	Diagram	Description	Code No.	Parts	Diagram	Description	Code No.
	Assembly,	baffle	CR.005.236			coil can mtg.	CS.235.833
	Assembly,	cursor	CR.480.639	-	Clip,	dial scale mtg.	
	Assembly,	lampholder	CZ.367.900			(perspex scale)	CS.227.002
	Assembly,	P/U socket	CZ.370.106	-		dial scale mtg. (glass scale)	
	Assembly,	pulley spindle				, baffle	CE.081.85
	,,	(1 pulley)	CR.436.206	4	•	dial drive	CS.361.829
***************************************	Assembly,	pulley spindle		1	Drum	, dial	CS.360.006
	,,	(2 pulleys)	CR.436.208		Knob,	control	CS.432.623
	Assembly,	terminal	CZ.376.200		Nippl	e, slide rod adj.	CS.274.603
. 5	Assembly,	tuning spindle	CR.371.320		Plate,	lampholder mtg.	CR.281.803
-	Assembly.	T/C—on/off switch	CZ.200.416	3	Pulley	, wooden	CS.360.201
		T/C clicker	CR.450.037		Ring,	C	CS.281.802
		W/C switch	CZ.200.040	6	Ring,	dial cord	CS.281.807
-	• •	W/C clicker	CR.450.036		Rod,	dial slide	CS.382.213
	Back, cabi		CS.462.089		Scale,	dial (perspex)	CS.412.322
	•				Scale,	dial (glass)	CS.412.330
	Badge, Ph	•	CS.436.414		Socke	t, noval wafer	CZ.369.702
	Bank, T/C		CZ.200.204		Socke	t, octal moulded (133 only)	CZ.369.515
	Bank, W/	C switch	CZ.200.041	2	Spring	, dial drum	CS.210.010
	Bracket, c	abinet back mtg.	CS.244.602		Strip,	masking	CS.050.413
	Bracket, ti	uning spindle	CS.224.607		Switch	n, mains on/off	CZ.220.001
	Cabinet		CS.460.505	_		er, felt (knobs)	CS.424.056





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	CAPACITORS	# Table		RESISTORS			COILS		
o Z	Description	Code No.	o Z	Description Code No.	ž	Ohms	Description	Code No.	
C1, 29	10 pF mica		R1, 5	30.000 ohms 1W carbon	ָר ַ	1.5	S/W Aerial Coil (white		
7	100 pF mica				7	(0.5.)	spot)	CZ.323.006	
C3, 25	0.05 mF 200V paper			75,000 ohms 1W carbon	LJ 7	30.0	B/C Aerial Coil	CZ.323.007	
C4, 5, 13,			R3, 10, 14, 19	50,000 ohms ½W carbon	- V	, 0 N	Spore spore		
4-	pF air trimmer	CZ.113.700	8 4	100 ohms ½W carbon	و ر	< 0.5	S/W Oscillator Coil (yellow spot)	CZ.330.601	
C6, 7 C8, 18	2 gang tuning Ci	CZ.107.746	R6	100,000 ohms 1W carbon	L7 L8	1.2 }	B/C Oscillator Coil (red spot)	02 330 600	
C9, 10	50 pF mica		R7, 8	2 megohms ½W carbon	F3	12.0)			S
C11	475 pF mica 2% C.	CZ.066.119	R9	0.5 megohm ½W carbon	L10	12.0 }	lst I.F. Iransformer	CZ.320.421	ERV
C12	20 pF mica		R11	5,000 ohms ½W carbon	L11 L12	12.0 }	2nd I.F. Transformer	CZ.320.420	/ICE
C15	0.008 mF mica		R12, 25	100,000 ohms ½W carbon	<u>.</u>	,	27090 204111	000 176 20	D
C16, 17, 22,	-,	A	813	Of menoty tennes	<u>.</u>		Fliter Choke		Α
23	100 pF mica 5% (part of I.F. transformers)	iers)	2	potentiometer CZ.029.134	L14 L15	600 <0.5	Speaker and Transformer (6,000 ohms)	er CZ.161.111	ГА
C19, 27	24 mF 350V electrolytic	.j.	R15	10 megohms 1W carbon	<u> </u>	0.0			
C20	100 pF ceramic C	CZ.096.602	R16	l megohm IW carbon	L17 L18	650 0.8	ŀ	1	
C21			R17	250,000 ohms 1W carbon	L19	<0.5 55.0	Power Transformer	CZ .344.035	
C24	0.002 mF 600V paper		R18	I megohm ½W carbon)				1
C26, 28, 33	3 0.02 mF 400V paper		R20	25 ohms ½W carbon			ł	1	3:
C30	47 pF ceramic C	CZ.096.604	R21	400 ohms ½W carbon	5	quote CODE	NUMBER	rt and	3
C31	150 pF mica		R22	250,000 ohms ½W carbon	€ 8 5	Claiming f	nben or e replac	. 5	13
C32	10 mF 40V electrolytic		R23	35 ohms 1W W/W	38.	ΖĘ	return a		3
C34	0.02 mF 600V paper		R24	75 ohms 1W W/W		DATE OF PU	NOMBER OF RECEIVER PURCHASE.	and and	A