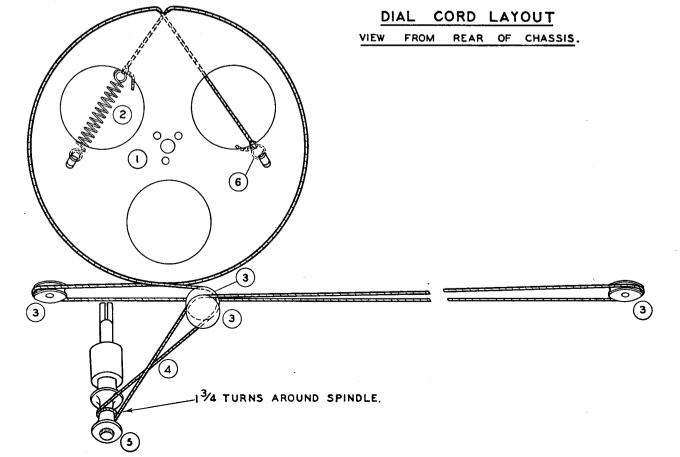
154-A

MISCELLANEOUS COMPONENTS

No. on	Dial Cord			No. on	Dial Cord		
Layout	Drawing	Description	Code No.	Layout	Drawing	Description	Code No.
<u> </u>	Assembly,	cursor	CR.480.642	_	Knob, con	itrol, 4x	CS.432.630
_	Assembly,	lamp socket, 2x	CZ.367.900			in polarised speaker and pick-up)	CZ.365.108
5	Assembly,	tuning spindle	CR.371.328			e (gramo, unit power)	CZ.365.115
_	Assembly,	T/C switch	CZ.200.237		Plug, man	e (gramo, unit power)	C2.303.113
_	Assembly,	T/C clicker	CR.450.039	3	Pulley, di	al drive, 4x	CS.359.602
_	Assembly,	W/C switch	CZ.200.227	·	Rod, dial	slide	CS.382.213
	Assembly,	W/C clicker	CR.450.040		Scale, dia	1	CS.412.371
	Badge, Phi	ilips	CR.531.408	_	Socket, 2	-pin polarised	
	Bank, T/C	switch	CZ.200.204		(speaker and pick-up)	CZ.370.107
	Bank, W/	C switch	CZ.200.231	_	Socket, f		CZ.365.116
_	Clip, I.F.T	. mounting, 6x	C\$.235.833			(gramo. unit power)	CZ.565.116
4	Cord, dial	drive (63" of cord req	uired)	2	Spring, d	ial drum	CS.210.021
1	Drum, dial	l	CS.360.007	_	Switch, m	ains on/off	CZ.210.108



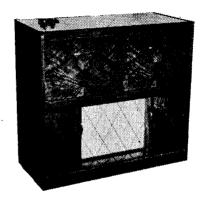
PHILIPS RADIOPLAYER MODEL 154-A

NOTE: Model 154A varies from Model 154 in type of record changer. Refer to "Specifications" for details.

SPECIFICATIONS

(Subject to alteration without notice)

200-250V, 40-60 c/s. B/C band, 530-1620 kc/s. S/W band, 5.9-18.4 Mc/s Power Supply Tuning Ranges 455 kc/s. Intermediate Frequency Radiogram Cabinet Gramo. Unit, 154 Philips type 2508 154A Collaro type 3RC531



VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	Valve No.	Valve Type	Plate Volts	Screen Volts	Osc. P. Volts
Frequency Converter	VI	6AN7	245	50	80
I.F. Amplifier, A.V.C. and Demodulator	V2	6N8	245	70	
Audio Amplifier	V3	6N8	120		-
Power Amplifier	V4	6M5	210	245	
Rectifier	V5	EZ82	Cathod	le — L17 C.	T., 287V.
Dial Lamps	V11 & V12	6.3V,	O.32A tubul	ar screw	
Voltage ac	cross R23, -2.1V	; across R2	3, 24, –6.6V.		

NOTE: These voltages are measured with an "1,000 ohms per volt" meter and may vary ± 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 four control knobs (a firm pull is all that is necessary) and the cabinet back. Remove the aerial and earth leads from the terminal assembly. Remove the plugs for speaker, pick-up and gramo unit power, from their respective sockets.

Remove two screws at the top of the dial back plate and two at the rear of the chassis. The chassis may now be lifted out of the cabinet.

Replacement of the chassis is a reversal of the above procedure. In order to prevent damage to the damping cylinder when replacing the chassis, put it into the cabinet dial back plate first. Make sure that the front of the chassis engages under the lips of the mounting brackets.

MAINS VOLTAGE ADJUSTMENT.

The power transformer is provided with two mains voltage tappings—200/230 volts and 240/250 volts for adjustment to the supply voltage at the point of installation. The receiver is adjusted at the factory to the 240/250 volts tapping.

If it is necessary to make a primary tapping change, care should be taken to see that the gramo. unit leads

are also changed. ALIGNMENT.

The iron cores for the secondaries of the I.F. transformers are located in the top of the cans; those for the primary are in the bottom of the cans. When trimming the I.F. circuits, care should be taken not to screw the iron cores in too far, otherwise undesired coupling may give rise to a false peak. A preliminary positioning to the outer edge of the former of all iron cores should be made. Then, when trimming is being carried out, the cores should not be screwed in beyond the first peak. Metallic tools should not be used for I.F. transformer adjustment.

Damped alignment of the I.F. channel is necessary.

The procedure is:-

(a) Connect an 100 pF capacitor across the secondary of the 1st I.F.T.

(b) Trim in order, secondary of 2nd I.F.T., primary of 2nd I.F.T., primary of 1st I.F.T.

(c) Check (b).

(d) Remove the shunt from the secondary of the 1st I.F.T. and trim this circuit.

(e) Check (d).

(f) Do not alter adjustments without 100 pF shunt in position.

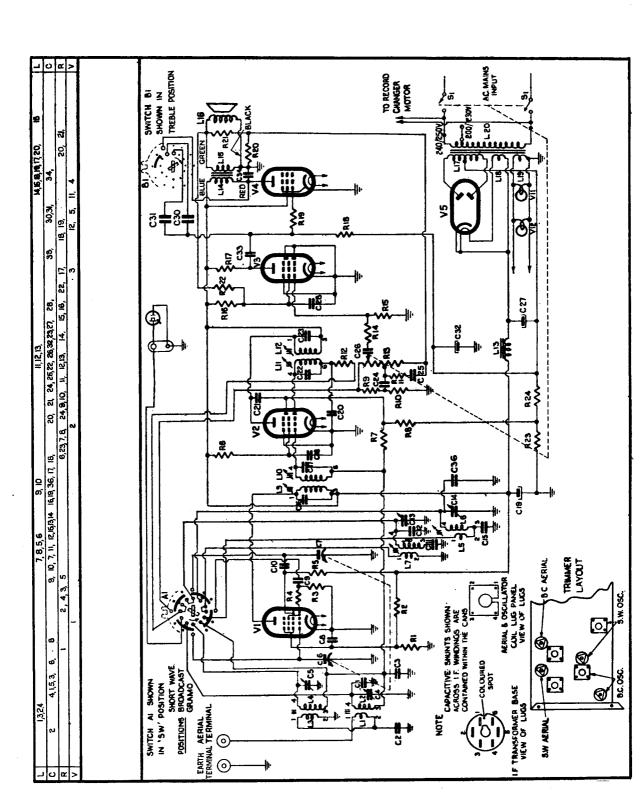
Broadcast band alignment frequencies are 1,420 kc/s, 3XY (oscillator and aerial trimmers) and 600 kc/s, 7ZL (slug padding); short wave alignment frequencies are 18.4 Mc/s (tuning gang fully open, oscillator trimmer) and 17.8 Mc/s (aerial trimmer, rock gang). Before commencing alignment, set the dial cursor, with the tuning gang fully closed, to the stop mark, which is the thin vertical mark at the extreme bottom on the right-hand end of the dial scale.

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

DIAL CALIBRATION.

If it is required to correct dial calibrations 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.

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PARTS LISTS

22 8 8 7 14 17 8 8 8 8 8 9 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Code No. No. R1, 5 = R2 R3, 10, 14, 19 R4 R4 R7, 8 R8, 10, 14, R11 R11 R11 R11 R11 R11 R11 R11 R11 R1	No. R1, 5 R2 R3, 10, 14, 19 R4 R6 R7, 8 R112 R113 R15 R15 R16 R17 R18 R20 R23	ORS COILS	on Code No. Ohms Description Code No.	s 1W carbon L1 1.3-1.7 (S/W aerial coil L2.323.006	L3 25.5-34.5 B/C = 1.7-2.3		L6 <0.5	L7 1.0-1.4 B/C oscillator coil	2	L9 .5- 2.5 m ½W carbon	10% L11 11.5-12.5)	ms ½W carbon	L17 365-495	29.137 L18	F 70	ns 1W carbon L13 Filter choke Type 14/60	ms 1W carbon L14) Speaker transformer (6,000 ohms)		2vv carbon L16 Speaker Type 12J (F25)	W W/W 10%	W carbon 10% IMPORTANT! In ordering spare parts, and auote CODE NUMBER of part and	MODEL NUMBER of Receiver.	GUARANTEE, return defective
- 4 8 6 9 - 8 4	066.199	100 pF mica 0.05 mF 200V paper 2 gang tuning CZ.107.746 0.01 mF 600V paper 50 pF mica 10% 475 pF mica 2% CZ.066.199 20 pF mica 0.008 mF mica 10% 24 mF 350V electrolytic 30 pF mica 0.002 mF 600V paper 0.002 mF 400V paper 30 pF mica 10 mF 40V electrolytic	Description S 33,000 ohms 1W carbon			82,000 ohms 1W carbon	9 47,000 ohms ½W carbon	100 ohms ½W carbon	150,000 ohms 1W carbon	8 2.2 megohms ½W carbon	22 0.47 megohm ½W carbon					10 megohms 1W carbon	2.2 megohms 1W carbon	220,000 ohms 1W carbon	•			390 ohms ½W carbon 10%		75 ohms ½W W/W 10%