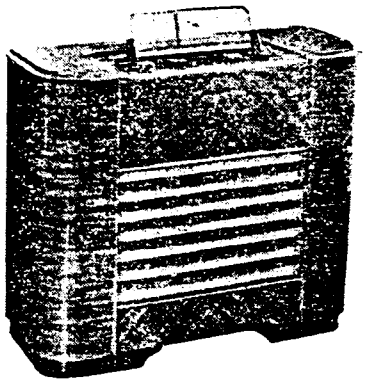
PHILIPS RADIOPLAYER
MODEL 127



SPECIFICATIONS

(Subject to alteration without notice)

Tuning Ranges	535-1620Kc/s 5.85-18.4Mc/s
Intermediate Frequency	455Kc/s.
Cabinet	De-luxe wooden console.
Battery Equipment	2x45V, heavy duty, plug-in type, dry batteries. 1x1.5V plug-in type, dry battery.
Battery Consumption	"A" 0.3A "B" 17mAs.

VALVE EQUIPMENT AND VOLTAGE ANALYSIS

Valve Function	No. Valve	Valve Type	Plate Volts	Screen Volts	Bias Volts
Frequency Converter	V1	1R5	41	41	0
1st I.F. Amplifier	V2	1T4	47	47	0
2nd I.F. Amplifier	V3	1T4	67	47	0
Demodulator, A.V.C. and 1st Audio	V4	1S5	22	6	0
Power Amplifier	V5	1Q5GT	82	84	-5.9

NOTE: These voltages are measured with a "1,000 ohms per volt" meter and may vary ± 10% from the figures quoted. They are measured from the socket points quoted to chassis; V5 bias is measured across back bias resistor R17.. The receiver should be in a "no signal" condition.

REMOVAL OF CHASSIS FROM CABINET.

Remove the plugs from the batteries, or if the Radioplayer is vibrator operated remove the battery clips from the battery terminals. Remove the four control knobs and the speaker plug from its socket and release the dial cursor assembly from the dial drive cord.

If the Radioplayer is vibrator unit operated, remove the vibrator unit from its bracket.

Remove the batteries or accumulator from the battery shelf. Lay the cabinet flat on some protective material and remove the four screws securing the chassis to its baseboard. Do NOT remove the baseboard from the cabinet. The chassis may now be lifted from the cabinet.

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

DIAL GLASS REMOVAL.

Raise the dial glass to its maximum forward position. This allows access to the dial glass clamping screws in the dial assembly end housing. Loosen the clamping screws (it is not necessary that they be completely removed) and withdraw the dial glass from the assembly. When the dial glass is replaced make sure that it is securely clamped.

ALIGNMENT.

The calibrated scale on the top edge of the chassis, in conjunction with an auxiliary pointer, which can be made up from workshop materials, facilitates alignment. With the tuning gang fully closed, set the auxiliary pointer to the letter "S" mark.

Alignment points are 1,420 and 600 kc/s and 18.4 mc/s (tuning gang fully open) and 17.8 mc/s.

On the shortwave band, the receiver oscillator operates at a frequency below that of the incoming signal.

REMOVAL OF INCLINATOR DIAL ASSEMBLY

After the chassis is removed from the cabinet—see "Removal of Chassis from Cabinet"—the inclinator dial assembly mounting brackets (one at each end of the assembly) are easily accessible. Removal of the mounting brackets permits the dial assembly to be lifted clear of the cabinet.

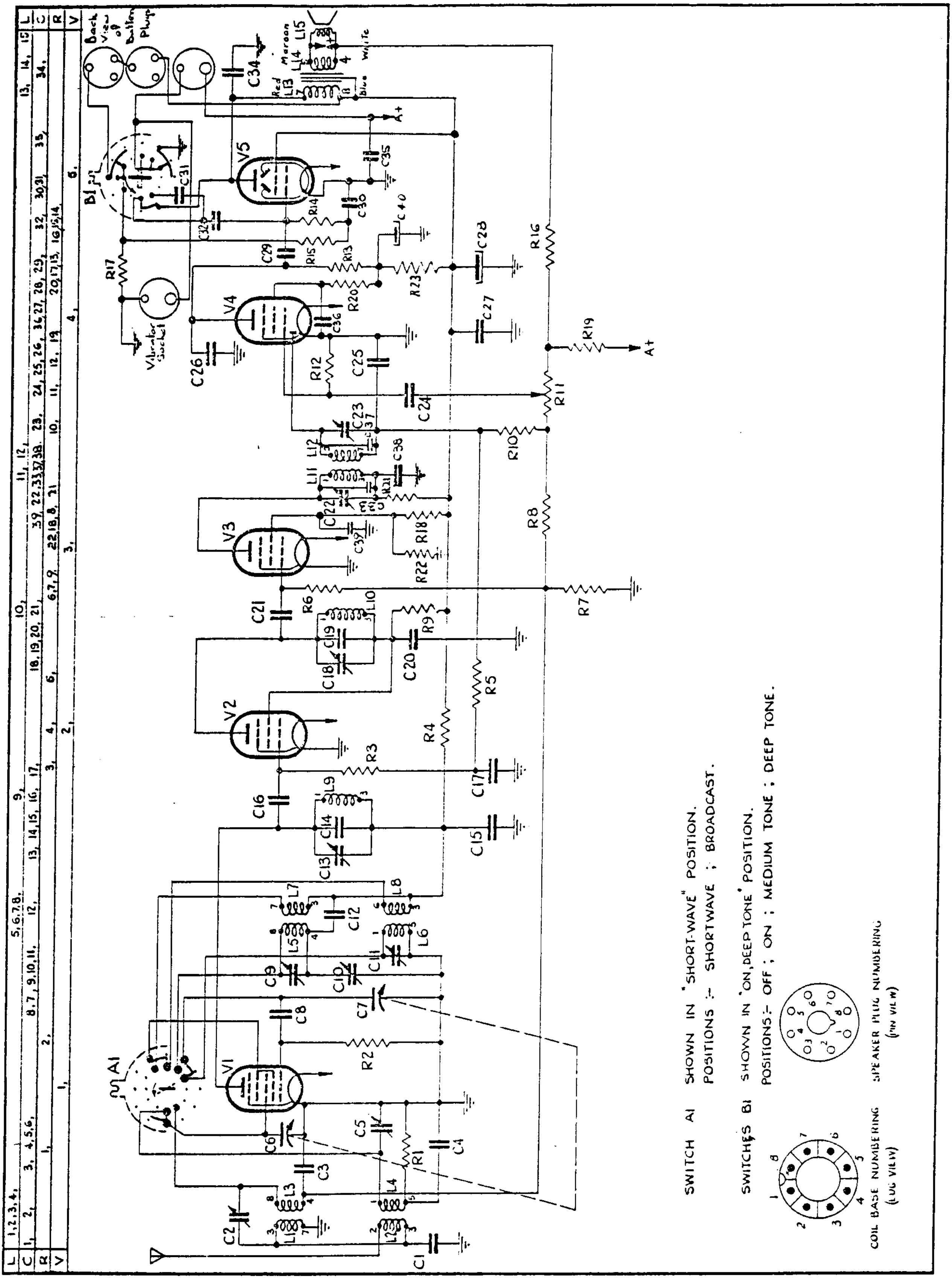
VIBRATOR UNIT OPERATION

Model 127 may be operated from a 6 volt accumulator by means of vibrator unit Model 118.

Provision is made on the receiver chassis for fitting a bracket on which the vibrator unit may be mounted. The unit is mounted horizontally, as opposed to the vertical mounting of the receiver chassis.

The receiver battery leads should be plugged into the vibrator unit sockets, the two pin plug from the unit fits into the socket on the mounting bracket assembly and the two pin plug from the bracket assembly plugs into the receiver chassis socket.

A separate service sheet covers the Model 118 unit.


SWITCH A1 SHOWN IN "SHORT-WAVE" POSITION.
POSITIONS :- SHORTWAVE ; BROADCAST.
SWITCHES B1 SHOWN IN "ON, DEEP TONE" POSITION.
POSITIONS :- OFF ; ON ; MEDIUM TONE ; DEEP TONE.
COIL BASE NUMBERING (LUG VIEW)
SPEAKER PLUG NUMBERING (PIN VIEW)
Back View of Button Plugs
Vibrator Socket
A+
V1
V2
V3
V4
V5
A1
B1
L
C
R
V

CAPACITORS

No.	Description	Code No.
C1	200pF mica	
C2, 5, 9, 22, 23	30pF air trimmer	CZ.113.700
C3, 17, 20, 27 30, 36, 38, 39	0.1mF 200V paper	
C4	0.0045mF mica	
C6, 7	2 gang tuning	CZ.107.720
C8	47pF ceramic	CZ.096.604
C10, 13, 18	125pF ceramic trimmer	CZ.118.200
C11	15pF glass	CZ.117.400
C12, 26	565pF mica	
C14, 19	150pF mica	
C15	0.002mF mica	
C16, 21, 25, 31	100pF ceramic	
C24	0.01mF 600V paper	
C28, 40	24mF 350V electrolytic	
C29	0.002mF 600V paper	
C32	290pF mica	
C33, 37	65pF mica	
C34	0.006mF 600V paper	
C35	0.5mF 200V paper	

RESISTORS

No.	Description	Code No.
R1, 10	50,000 ohms ½W carbon	
R2	30,000 ohms ½W carbon	
R3, 6, 7, 14	1 megohm ½W carbon	
R4	15,000 ohms 1W carbon	
R5, 8, 12	2 megohms ½W carbon	
R9	10,000 ohms 1W carbon	
R11	0.5 megohm carbon potentiometer 2 11/16" spindle	
R13	250,000 ohms 1W carbon	
R15	0.5 megohm ½W carbon	
R16	50 ohms ½W carbon	
R17	350 ohms ½W W/W	
R18	20,000 ohms 1W carbon	
R19	25 ohms ½W carbon	
R20	2 megohms 1W carbon	
R21	5,000 ohms 1W carbon	
R22, 23	50,000 ohms 1W carbon	

COILS

No.	Ohms.	Description	Code No.
L1	21.5	Aerial coil	CZ.320.010
L2	1.2		
L3	3.5		
L4	<0.5		
L5	4.2	Oscillator coil	CZ.321.007
L6	<0.5		
L7	1.8		
L8	0.8		
L9	7.0	1st I.F. choke	CZ.320.411
L10	7.0	2nd I.F. choke	CZ.320.411
L11	5.0	3rd I.F. Transformer	CZ.320.413
L12	5.0		
L13	360	Speaker and Transformer 8,000 ohms	CZ.161.211
L14	1		
L15	3.8		

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

MISCELLANEOUS COMPONENTS

No. on Dial Parts Diagram	Description	Code No.
—	Assembly, cursor	CR.480.614
1	Assembly, dial drum	CR.382.804
—	Assembly, dial housing, R.H. (incl. dial assy)	CR.272.604
—	Assembly, dial housing, L.H. (incl. dial assy.)	CR.272.605
—	Assembly, lamp cover, R.H. (incl. dial assy.)	CR.272.402
—	Assembly, lamp cover, L.H. (incl. dial assy.)	CR.272.403
—	Assembly, pressure plate (incl. dial assy.)	CR.391.207
6	Assembly, pulley spindle	CR.436,201
—	Assembly, slider hinge	CR.432.200
—	Assembly, terminal	CZ.376.201
—	Assembly, T/C clicker	CR.450.030
—	Assembly, W/C clicker	CR.450.026
—	Assembly, T/C—on/off switch	CZ.200.411
—	Assembly, W/C switch	CZ.200.034
—	Badge, Philips	CR.531.408
—	Bank, T/C—on/off switch	CZ.200.405
—	Bank, W/C switch	CZ.200.024
—	Brace, end (W/C-T/C switch)	CS.219.000
—	Bracket, cover attach., R.H. (incl. dial assy.)	CS.229.803
—	Bracket, cover attach., L.H. (incl. dial assy.)	CS.229.802
—	Bracket, tuning spindle	CS.224.603
—	Clamp (incl. dial mtg. to cab.)	CS.235.205
—	Clamp, speaker mounting	CS.234.813
—	Cloth, speaker baffle	CE.081.81
5	Cord, dial	CS.361.811
4	Cord, drum	CS.361.812

No. on Dial Parts Diagram	Description	Code No.
—	Cover, front (incl. dial assy.)	CS.430.828
—	Cover, rear (incl. dial assy.)	CS.430.827
—	Glass, dial, printed	CS.412.304
—	Grommet, battery cable	CS.422.414
—	Grommet, chassis mounting	CS.422.421
—	Key, T/C clicker	CS.365.804
—	Key, W/C clicker	CS.365.803
—	Knob, tuning	CR.523.656
—	Mount, bakelite, incl. dial to cabinet	CS.235.830
—	Nut tee (chassis mounting)	CH.603.214
—	Plate, clamping, incl. dial to mount.	CS.235.200
—	Plate, friction (incl. dial assy.)	CS.366.200
—	Plug, 2 pin polarised	CR.102.200
—	Plug, 3 pin polarised	CZ.365.204
7	Pulley, wooden	CS.360.202
3	Ring, dial cord	CS.281.807
—	Rod, dial slide	CS.382.202
—	Socket, 2 pin polarised	CR.102.401
—	Socket, miniature valve	CZ.369.318
—	Socket, octal wafer	CZ.369.507
8	Spindle, tuning	CS.351.418
—	Spring, compression (incl. dial assy.)	CS.281.806
2	Spring, dial drum	CS.210.010
—	Spring, return (incl. dial assy.)	CS.212.201
—	Spring, tuning spindle	CS.212.001
—	Spring, W/C & T/C clicker key	CS.211.802
—	Washer, felt (knobs)	CS.424.018
—	Washer, friction (incl. dial assy.)	CS.366.201