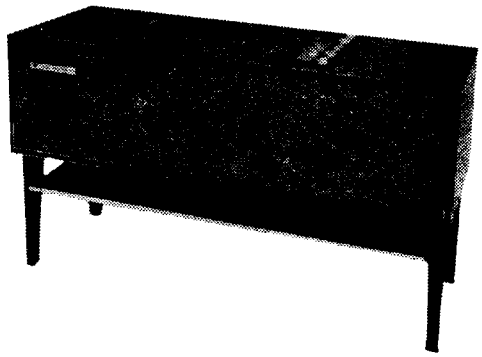
PHILIPS Service notes



MODEL RF6
La Ronde

SPECIFICATIONS

Power supply	200-250V, 50c/s
Power consumption	70W
Tuning range	525-1620 kc/s
Intermediate frequency	455 kc/s
Record changer	BSR type UA15SS/2A (PS1027)
Pick-up head	BSR type C1ST3
Dial lamps	Philips type 8045D, 6.3V, 0.32A

ALIGNMENT

Trimmer location is given as an inset drawing on the main circuit diagram drawing.

Put switch to radio, volume control in maximum position, tone control to treble and balance control to central position.

I.F. Alignment

Set permeability tuner fully out. Apply a modulated 455 kc/s signal via an 0.01μF capacitor to control grid (pin 2) of V1 and peak I.F.T. coils in the following sequence:

Secondary 2nd I.F.T.
Primary 2nd I.F.T.
Secondary 1st I.F.T.
Primary 1st I.F.T.

R.F. Alignment

Set permeability tuner to fully in position and adjust the cursor to the top edge of the row of six rectangular panels at the bottom of the dial scale.

Use a standard dummy aerial and apply a modulated RF signal to receiver aerial and earth leads.

Alignment frequencies are:—

525 kc/s (tuner fully in) peak oscillator trimmer C8.
1500 kc/s (3AK) peak aerial trimmer C3.

Repeat these adjustments.

DIAL LAMP REPLACEMENT

Remove dial window glass—refer "Chassis Removal". At the appropriate end of dial scale, back off the screws holding the clamping bracket and the rubber dial scale support. The dial lamp in its holder may now be withdrawn from the moulding. Lamp type is 8045D, 6.3V, 0.32A tubular screw.

CHASSIS REMOVAL

Remove power plug from mains outlet socket. Remove cabinet back. Remove control knobs, two hexagonal brass bushes and dial window. Unscrew four chassis retaining screws, two under dial window and two in changer compartment partition. At chassis terminal blocks, release shielded pick-up leads, internal aerial lead, speaker leads and 240V A.C. supply lead to changer. Release external aerial lead from cabinet back rail. Withdraw complete chassis through top aperture.

Re-install in the reverse order with the precaution to fit the external aerial lead to the back rail before cabinet back is re-installed.

RECORD CHANGER REMOVAL

Remove power plug from mains outlet socket. Remove cabinet back. Disconnect pick-up leads and changer A.C. supply leads at connector block on chassis. Remove dial window glass—refer "Chassis Removal". Unscrew four corner screws from changer mounting board and prize board and changer complete with leads away from swivel compartment.

Refitting the changer is a reversal of the foregoing.

Swivel action of changer compartment can be tightened if necessary by increasing tension on screw of front nylon bearing from inside compartment.

April, 1965

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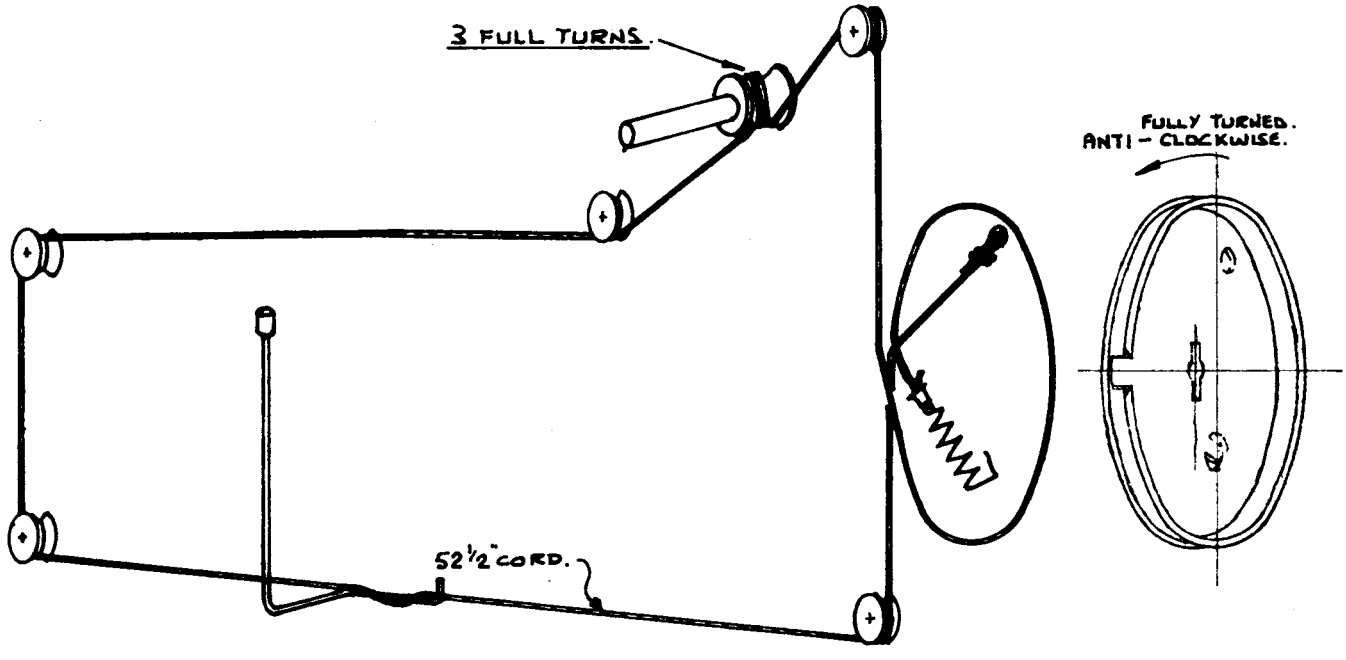
RF6

MECHANICAL PARTS LIST

DESCRIPTION	CODE No.
Baffle cloth	CE.083.43 Sarlon SR883A
Baffle trim—aluminium extrude—	
top and bottom pieces	CS.430.762
side pieces	CS.430.763
Bush-threaded brass (dial scale window mtg.) 2X	CS.273.600
Control knob, 5X	CR.523.582
Cursor assembly	CR.480.690
Dial cord (52½" required)	965/JB1
Dial cord spring	CS.200.030
Dial drum assy.	CR.382.211
Dial scale window	CS.430.159
Dial scale	CS.412.494
Handle assy.—changer box	CR.523.232

DESCRIPTION	CODE No.
Lampholder, 2X	A3.311.15
Leg assy., RH front and LH rear	CR.700.526
Leg assy., LH front and RH rear	CR.700.525
Leg glides, 4X	CR.381.004
Shelf trim mould	CD.906.459 Colan type 9831
Spacer—plastic (under dial scale window and around control spindles) 2X	CS.284.074
Switch assy. (Off-Gram-Radio)	CZ.220.400
Tuning spindle assy.	CR.371.343
Washer—fibre (for dial scale window bush) 2X	CS.466.909
Wing nut—leg mtg., 2X, 5/16" BSW	CH.604.010
Wordmark—"La Ronde"	CS.436.550



EXPLODED VIEW FROM FRONT SHOWING
PERM. TUNER IN CLOSED POSITION (FULLY TURNED ANTI-CLOCKWISE)

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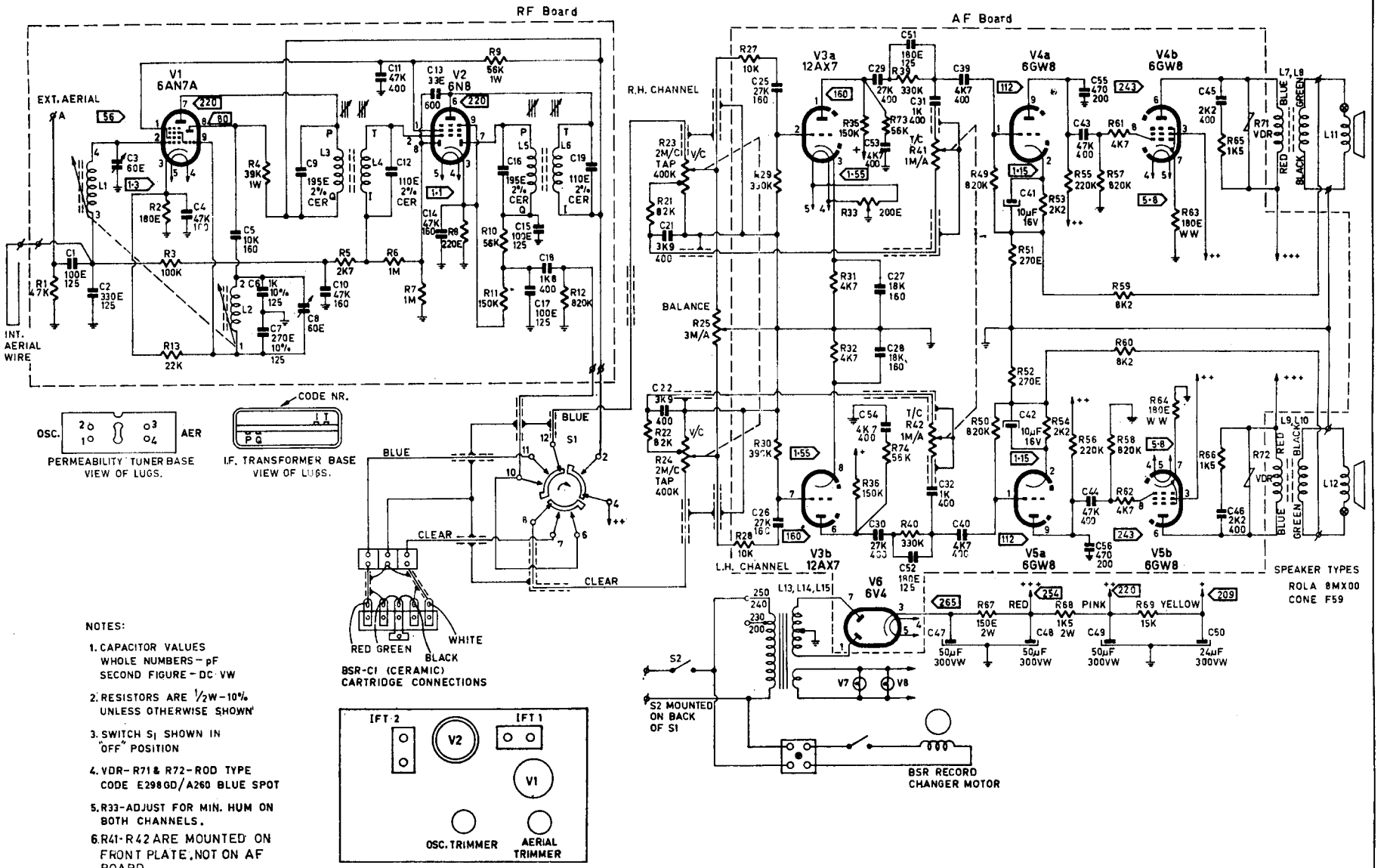
RF Board
AF Board
EXT. AERIAL
INT. AERIAL WIRE
V1 6AN7A
V2 6N8
V3a 12AX7
V3b 12AX7
V4a 6GW8
V4b 6GW8
V5a 6GW8
V5b 6GW8
V6 6V4
R.H. CHANNEL
L.H. CHANNEL
BALANCE
OSC.
AER
PERMEABILITY TUNER BASE VIEW OF LUGS.
CODE NR.
I.F. TRANSFORMER BASE VIEW OF LUGS.
BLUE
CLEAR
RED GREEN
WHITE
BLACK
BSR-C1 (CERAMIC) CARTRIDGE CONNECTIONS
IFT 2
IFT 1
OSC. TRIMMER
AERIAL TRIMMER
S2 MOUNTED ON BACK OF S1
BSR RECORD CHANGER MOTOR
SPEAKER TYPES
ROLA 8MX00
CONE F59
NOTES:
1. CAPACITOR VALUES WHOLE NUMBERS – pF SECOND FIGURE – DC VW
2. RESISTORS ARE 1/2W – 10% UNLESS OTHERWISE SHOWN
3. SWITCH S1 SHOWN IN "OFF" POSITION
4. VDR – R71 & R72 – ROD TYPE CODE E298GD/A260 BLUE SPOT
5. R33 – ADJUST FOR MIN. HUM ON BOTH CHANNELS.
6. R41-R42 ARE MOUNTED ON FRONT PLATE, NOT ON AF BOARD

ELECTRICAL PARTS LIST

CAPACITORS

C. No.	DESCRIPTION	V.W.	TOL. ± %	TYPE OR CODE No.
1	100E Styroseal	125	10	Ducon DFB
2	330E Styroseal	125	10	Ducon DFB
3	60E air trimmer			C.005.CA/60E
4	47K Polyester	160	10	C.296.AA/A47K
5	10K Polyester	160	10	C296.AA/A10K
6	IK Styroseal	125	10	Ducon DFB
7	270E Styroseal	125	10	Ducon DFB
8	60E air trimmer			C.005.CA/60E
9	Part of 1st I.F.T.			
10	47K Polyester	160	10	C.296.AA/A47K
11	47K Polyester	400	10	C.296.AC/A47K
12	Part of 1st I.F.T.			
13	33E Styroseal	600	10	Ducon DFB
14	47K Polyester	160	10	C.296.AA/A47K
15	100E Styroseal	125	10	Ducon DFB
16	Part of 2nd I.F.T.			
17	100E Styroseal	125	10	Ducon DFB
18	IK8 Polyester	400	10	C.296.AC/AIK8
19	Part of 2nd I.F.T.			
21	8K2 Polyester	400	10	C.296.AC/A8K2
22	8K2 Polyester	400	10	C.296.AC/A8K2
25	27K Polyester	160	10	C.296.AA/A27K
26	27K Polyester	160	10	C.296.AA/A27K
27	18K Polyester	160	10	C.296.AA/A18K
28	18K Polyester	160	10	C.296.AA/A18K
29	27K Polyester	400	10	C.296.AC/A27K
30	27K Polyester	400	10	C.296.AC/A27K
31	IK Polyester	400	10	C.296.AC/AIK
32	IK Polyester	400	10	C.296.AC/AIK
39	4K7 Polyester	400	10	C.296.AC/A4K7
40	4K7 Polyester	400	10	C.296.AC/A4K7
41	10M electrolytic	16		C.426.AR/E10
42	10M electrolytic	16		C.426.AR/E10
43	47K Polyester	400	10	C.296.AC/A47K
44	47K Polyester	400	10	C.296.AC/A47K
45	2K2 Polyester	400	10	C.296.AC/A2K2
46	2K2 Polyester	400	10	C.296.AC/A2K2
47-48	2x50M electrolytic	300	dual	Ducon ECD 404 CZ.099.917
49	50M electrolytic	300	dual	Ducon ECD 418
50	24M electroyltic	300		CZ.100.219
51	180E Styroseal	125	10	Ducon DFB
52	180E Styroseal	125	10	Ducon DFB

RESISTORS

R No.	DESCRIPTION	W.	TOL. ± %	TYPE OR CODE No.
1	47K carbon	½	10	IRC BTS
2	180E carbon	½	10	IRC BTS
3	100K carbon	½	10	IRC BTS
4	39K carbon	1	10	IRC BTA
5	2K7 carbon	½	10	IRC BTS
6	IM cracked carbon	¼	10	B8.305.05A/IM
7	IM cracked carbon	¼	10	B8.305.05A/IM
8	220E carbon	½	10	IRC BTS
9	56K carbon	1	10	IRC BTA
10	56K carbon	½	10	IRC BTS
11	150K carbon	½	10	IRC BTS
12	820K cracked carbon	¼	10	B8.305.05A/820K
13	22K carbon	½	10	IRC BTS
21	22K carbon	½	10	IRC BTS
22	22K carbon	½	10	IRC BTS
23-24	2x2M tapped 400K, carbon potentiometer, taper C (volume)			CZ.029.614 IRC series 45 dual ganged
25	3M carbon potentiometer, taper A (balance)			CZ.029.615 IRC series 45
27	10K carbon	½	10	IRC BTS
28	10K carbon	½	10	IRC BTS
29	390K carbon	½	10	IRC BTS
30	390K carbon	½	10	IRC BTS
31	4K7 carbon	½	10	IRC BTS
32	4K7 carbon	½	10	IRC BTS
33	200E carbon potentiometer, taper A (hum. adj.)			E.097.AC/200E
35	150K carbon	½	10	IRC BTS
36	150K carbon	½	10	IRC BTS
39	330K carbon	½	10	IRC BTS
40	330K carbon	½	10	IRC BTS
41-42	2xIM carbon potentiometer, taper A (tone)			CZ.029.616 IRC series 45 dual ganged
49	820K cracked carbon	¼	10	B8.305.05A/820K
50	820K cracked carbon	¼	10	B8.305.05A/820K
51	270E carbon	½	10	IRC BTS
52	270E carbon	½	10	IRC BTS

RESISTORS (cont.)

R No.	DESCRIPTION	W.	TOL. ± %	TYPE OR CODE No.
53	2K2 carbon	½	10	IRC BTS
54	2K2 carbon	½	10	IRC BTS
55	220K carbon	½	10	IRC BTS
56	220K carbon	½	10	IRC BTS
57	820K cracked carbon	¼	10	B8.305.05A/820K
58	820K cracked carbon	¼	10	B8.305.05A/820K
59	8K2 carbon	½	10	IRC BTS
60	8K2 carbon	½	10	IRC BTS
61	4K7 carbon	½	10	IRC BTS
62	4K7 carbon	½	10	IRC BTS
63	180E wire wound	½	10	IRC BT½
64	180E wire wound	½	10	IRC BT½
65	6K8 carbon	½	10	IRC BTS
66	6K8 carbon	½	10	IRC BTS
67	150E carbon	2	10	IRC BTB
68	IK5 carbon	2	10	IRC BTB
69	15K carbon	½	10	IRC BTS
71	V.D.R. rod (blue)	0.8	10	E.298.GD/A260
72	V.D.R. rod (blue)	0.8	10	E.298.GD/A260

INDUCTORS

L. No.	DESCRIPTION	TYPE OR CODE No.
1, 2	Permeability tuner	CZ.109.003
3, 4	1st I.F. transformer	CZ.320.536
5, 6	2nd I.F. transformer	CZ.320.536
7, 8	Output transformer, 6,000/15Ω	CZ.345.085 MSP 2TU/51762A
9, 10	Output transformer, 6,000/15Ω	CZ.345.085 MSP 2TU/51762A
11	Loudspeaker, Rola 8MX00,15Ω	CZ.161.238
12	Loudspeaker, Rola 8MX00,15Ω	CZ.161.238
13, 14, 15	Power transformer	CZ.344.149