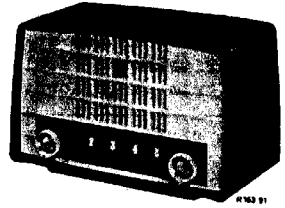


PHILIPS

SERVICE NOTES

B2 X 68 B-63



1956 For battery supply.

Controls.

At the left - battery switch + volume control.
At the right- tuning
Right side panel
Waverange switch

Waveranges.

M.W. : 185 - 580 m (1622 - 517 kc/s)
S.W. : 16.75 - 63.2 m (17.9 - 4.75 Mc/s)

Valves.

B1 : DK96
B2 : DF96
B3 : DAF96
B4 : DL96

Loudspeaker.

Type 9742Z (Z = 5 Ω).

I.F. : 452 kc/s.

Battery voltages.

Vb = 90 V
Vf = 1.5 V

Consumption.

Ia = 10 mA (90 V)
If = 125 mA (1.5 V)

Dimensions.

Width : 26.1 cm
Height : 17.4 cm
Depth : 13.7 cm

B2X68B-63

S1)			A3 118 41.0	C16	47000	PF	A9 999 06/47K
S2)				C17	56	PF	A9 999 04/56E
S3)			A3 125 35.0	C18	1000	PF	A9 999 06/1K
S4)				C19	47000	PF	A9 999 06/47K
S5			A3 118 45.0	C20	2700	PF	A9 999 06/2K7
S6)				C21	4700	PF	A9 999 06/4K7
S7)			A3 118 85.0	C22	25	PF	A9 999 11/25
S8)				C24	56	PF	A9 999 04/56E
S9)			A3 125 72.0	C25	480	PF	A9 999 07/360E- 575E
S10)				C26	30	PF	28 212 36.4
S11)				C27	68	PF	A9 999 04/68E
C10)	110	PF	A3 126 84.0	R1	0,1	MΩ	A9 999 00/100K
C11)	195	PF		R2	27000	Ω	A9 999 00/27K
S12)				R3	47000	Ω	A9 999 00/47K
S13)				R4	33000	Ω	A9 999 00/33K
C14)	110	PF	A3 126 84.0	R5	1,5	MΩ	A9 999 00/1M5
C15)	195	PF		R6	18000	Ω	A9 999 00/18K
S14)				R7	56000	Ω	A9 999 00/56K
S15)			A3 169 27.0	R8	0,45	MΩ	A9 999 16/DL50K+
C2	12-500	PF)		R9	0,05	MΩ	450K
C3	12-500	PF)	49 001 56.1	R10	4,7	MΩ	A9 999 00/4M7
C4	11	PF	A9 999 07/6E- 25E	R11	4,7	MΩ	A9 999 00/4M7
C5	6-25	PF	A9 999 07/6E- 25E	R12	1	MΩ	A9 999 00/1M
C6	390	PF	A9 999 04/390E	R13	1,8	MΩ	A9 999 00/1M8
C7	10	PF	49 005 64.2	R14	560	Ω	A9 999 00/560E
C8	120	PF	A9 999 04/120E	R15	2200	Ω	A9 999 00/2K2
C9	56	PF	A9 999 04/56E				
C10	110	PF)	See coils				
C11	195	PF)	Voir bobines Vease bobinas				HD/MZ
C12	4700	PF	A9 999 06/47K				
C13	0,8	PF	A9 999 04/8E				
C14	110	PF)	See coils				
C15	195	PF)	Voir bobines Vease bobinas				

LIST OF PARTS

When ordering, always quote:

1. Code number.
2. Description and colour.
3. Type number of the set.

	Description	Code number
	Cabinet	A3 770 62.0
	Knob	A3 769 52.0
	Spring in driving drum	A3 646 57.0
	Slide for waverange switch	P4 380 92/19
	Battery plug	A3 410 24.0
	Spring flat (for slide waverange switch)	A3 650 50.0
	Spring (for fixing coils)	A3 651 89.0
	Vernier tuning	A3 396 68.0
	Dial (oversea)	A3 807 12.0
		HA
		ED/MZ

Trimming the receiver.

When trimming the rule is:

Volume control on maximum.

Connect a voltmeter via a trimming transformer to the additional loudspeaker sockets.

Unless otherwise stated, all signals are applied to the aerial socket.

After trimming, seal the cores and trimmers.

Now trim as follows:

I.F. circuits (unscrew iron cores of S10, S11, S12 and S13).				
Waverange	Tuning capacitor	Signal	Trim	Indication
M.W.	Minimum	452 kc/s via 33.000 pF to g3B1	S13, S12 S10, S11 S12	Maximum output

When trimming the R.F. circuits, one makes use of the trimming points on the scale. Trimming point 1 is on the left side of the scale; here the position of the variable capacitor is minimum.

Trimming point 2 is at the right side of the scale.

Before starting to trim, it is necessary that the pointer is on the trimming point 1 on the dial with the variable capacitor at minimum.

R.F. circuits				
Waverange	Tuning capacitor	Signal	Trim	Indication
M.W.	1	1630 kc/s	C26, C5	Maximum output
	2	550 kc/s	S9, S4	Maximum output
S.W.	1	18 Mc/s	C7	Maximum output
	2	5.06 Mc/s	S7, S2	Maximum output

Replacement of parts.Removing the chassis from the cabinet.

1. Remove the rear panel and the knobs.
2. Remove the switch lever at the right side panel by removing a spring clip at the inner side.
3. Loosen the chassis fixing by removing the two screws at the rear side.
4. Loosen the loudspeaker fixing by unscrewing the two screws.

Drive.

The length and the path of the driving cord are indicated in fig.2, for the position where the variable capacitor is set to maximum.