

# PHILIPS

## SERVICE NOTES

### BX 236B-63-72

1955. For battery supply.

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#### 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.

V<sub>b</sub> = 90 V  
V<sub>f</sub> = 1.5 V

#### Consumption.

I<sub>a</sub> = 10 mA (90 V)  
I<sub>f</sub> = 125 mA (1.5 V)

#### Dimensions.

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

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.

LIST OF PARTS

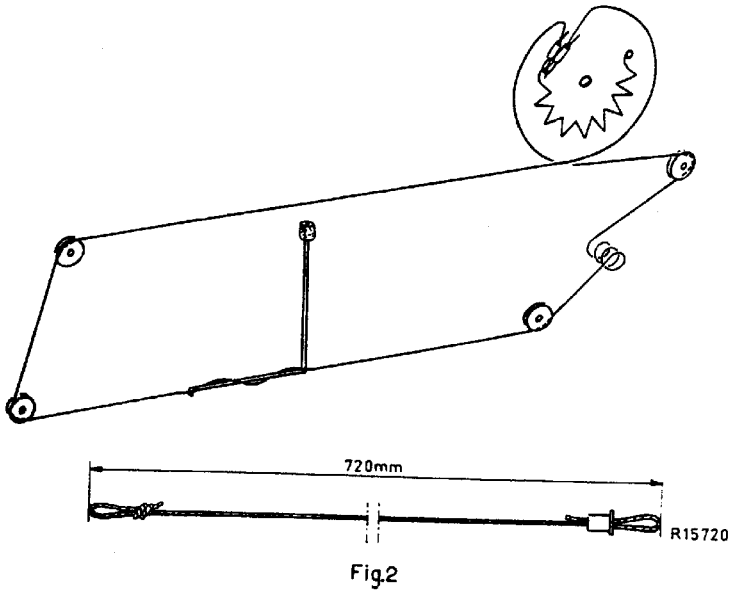
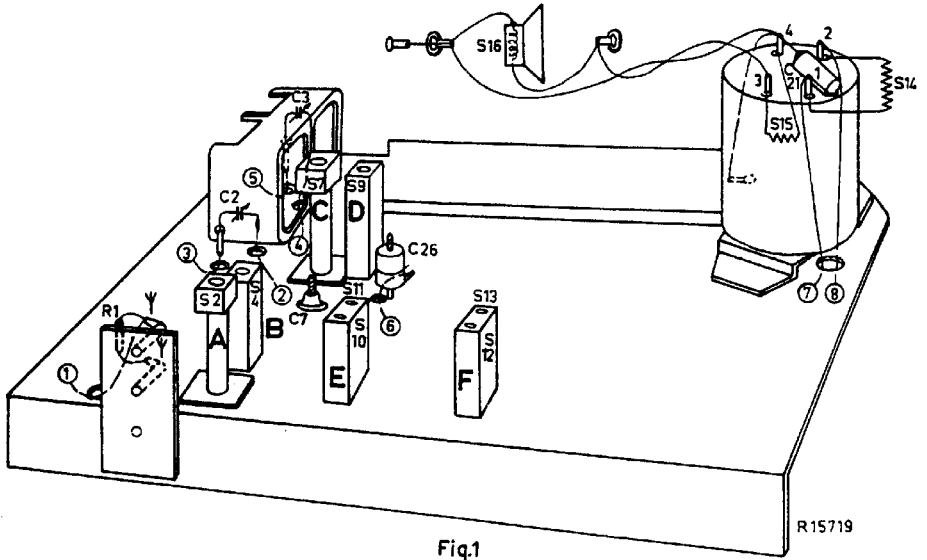
When ordering, always quote:

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

		Description	Code number
		Cabinet Knob Spring in driving drum Slide for waverange switch	A3 750 59.0 A3 738 49.0 A3 646 57.0 P4 380 92/19

MW/MZ

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	MF	A9 999 11/G25
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				MZ/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				



S:	19.	20.	22.	26.	27.	17.	18.	25.	12.	E.D.	C.5.	B.A.			
C:	9.	8.	11.	12.	10.	7.	6.	5.	3.	4.	2.				
R:	14.	13.										5.	24.	6.	4.

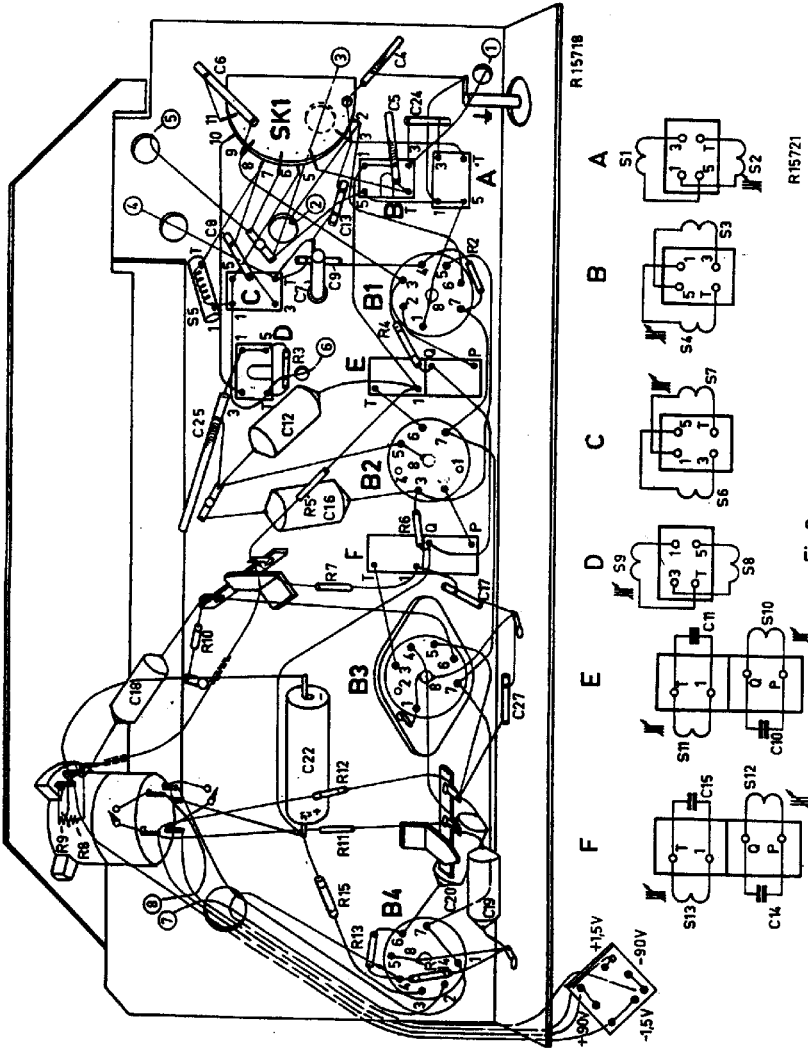


Fig.3

S:	1, 2, 3, 4,	5, 6, 7, 8, 9,	10, 11,	12, 13,	14,	15, 16,	17, 18, 19,	20, 21,	22,	23, 24,	25, 26, 27, 28,	29,	30,	31,	32,					
C:	24, 12,	4, 5, 2,	13, 9,	6,	3,	2,	4,	3,	10, 11,	16,	11,	14,	7, 8, 9,	10,	15, 18, 17,	19,	27, 20,	21,	14, 15, 16,	
R:	1,																			

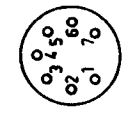
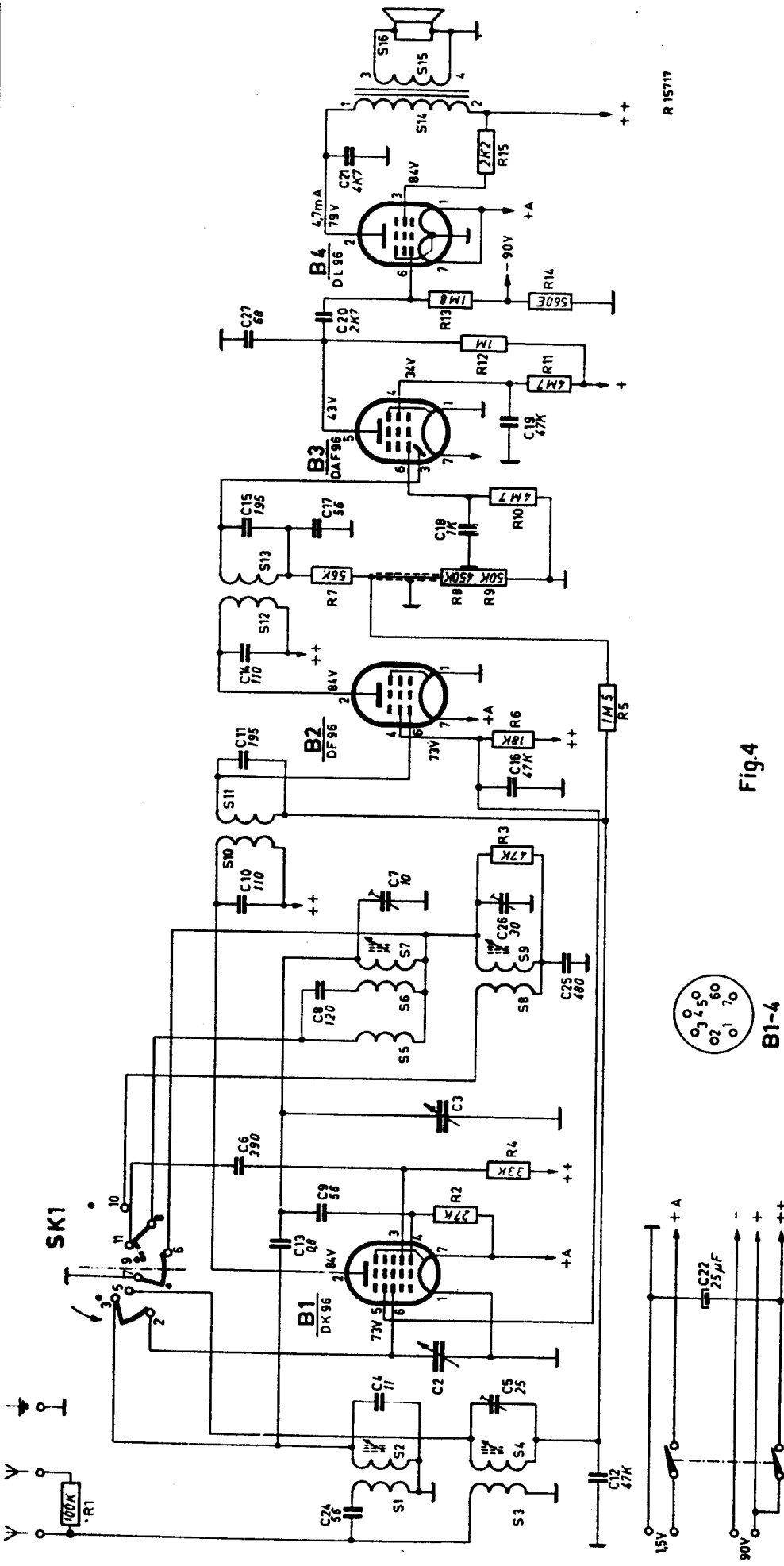


Fig.4

R 15717





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 Eindhoven

# PHILIPS

## SERVICE NOTES

for the receiver

### BX236B-71

1955

For battery supply

This receiver is equal to the BX236B-63-72 with the following exceptions:

<u>Remove</u>	B1	DK96	
	B4	DL96	
	R4	33.000 $\Omega$	A9 999 00/33K
	R6	18.000 $\Omega$	A9 999 00/18K
<u>Add</u>	B1	DK92	
	B4	DL94	
	R4	39.000 $\Omega$	A9 999 00/39K
	R6	47.000 $\Omega$	A9 999 00/47K

*HL*

MW/EG

N.V. PHILIPS  
GLOEILAMPEN-  
FABRIEKEN  
EINDHOVEN

# Service Information

No. Ba95

CENTRAL  
SERVICE  
DIVISION

GROUP: Apparaatus  
ARTICLE: Radio  
TYPE: BX 236 B-71

DATE 21-6-55

WV/MZ

RE:

As the version -71 deviates so far from the other versions that it contains an other type of mixing and output valve, the directions for use added are not entirely correct, for in these directions for use are mentioned the DK96 and DL96. This should be altered for this version to DK92 and DL94.

Daar de -71 uitvoering in afwijking van de overige uitvoeringen een ander type meng- en eindbuis bevat, is de bijgevoegde gebruiksaanwijzing niet geheel juist. In deze gebruiksaanwijzing zijn namelijk de DK96 en DL96 vermeld. Men gelieve dit voor deze uitvoering te wijzigen in DK92 en DL94.

Puisque l'exécution -71 contrairement aux autres exécutions contient un autre type de tube mélangeur et de sortie, le mode d'emploi annexe n'est pas tout à fait correct parce que dans ce mode d'emploi ont été mentionnés le DK96 et le DL96. Pour cette exécution, il faut changer cela en DK92 et DL94.

Da die -71 Ausführung in Abweichung von den übrigen Ausführungen einen anderen Typ Misch- und Endröhre enthält, ist die beigegebene Gebrauchsanweisung nicht ganz richtig. In dieser Gebrauchsanweisung sind nämlich die DK96 und DL96 erwähnt. Sie wollen dies also für diese Ausführung in DK92 und DL94 ändern.

Ya que la ejecución -71 contrariamente a las demás ejecuciones contiene otro tipo de válvula mezcladora y de salida, el modo de empleo adjunto no es enteramente correcto, porque en este modo de empleo se mencionan la DK96 y DL96. Para esta ejecución sírvanse modificarlo en DK92 y DL94.

CENTRAL SERVICE DEPARTMENT

  
A. van Heuten.

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# ARCHIEF

## PHILIPS

### SERVICE NOTES

for the receiver

## BX236 B-75-95

1955.

For battery supply.

#### Controls.

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

I.F. : 452 kc/s.

#### Battery voltages.

Vb = 90 V  
Vf = 1.5 V

#### Waveranges.

M.W. : 185 - 580 m (1622 - 517 kc/s)  
S.W. : 25 - 93.8 m ( 12 - 3.2 Mc/s)

#### Consumption.

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

#### Valves.

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

#### Dimensions.

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

#### Loudspeaker.

Type 9742 Z (Z = 5  $\Omega$ ).

93 983 99.1.05

Trimming the receiver.

When trimming the rule is:

Volume control on maximum.

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

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 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	Max. 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	Max. output
	2	550 kc/s	S9, S4	Max. output
S.W.	1	12.2 Mc/s	C7	Max. output
	2	3.3 Mc/s	S7, S2	Max. 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.

If the original output transformer becomes defective it must be replaced by the service standard transformer mentioned in the electrical parts list.

For connections see fig.5.

Output transformer.

If the original output transformer becomes defective it must be replaced by the service standard transformer mentioned in the electrical parts list.

For connections see fig.5.

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 750 59.0
Knob	A3 738 49.0
Spring in driving drum	A3 646 57.0
Slide for waverange switch	P4 380 92/19
Leaf spring	A3 650 50.0

MW/MZ

S1)			A3 119 58.0	R1	0,1 MQ	A9 999 00/100K
S2)				R2	27000 Ω	A9 999 00/27K
S3)			A3 125 35.0	R4	39000 Ω	A9 999 00/39K
S4)				R5	1,5 MQ	A9 999 00/1M5
S5			A3 119 59.0	R6	12000 Ω	A9 999 00/12K
S6)				R7	56000 Ω	A9 999 00/56K
S7)			A3 119 57.0	R8	0,45 MQ	A9 999 16/
S8)				R9	0,05 MQ	DL50K+450K
S9)			A3 125 72.0	R10	4,7 MQ	A9 999 00/4M7
S10)				R11	2,7 MQ	A9 999 00/2M7
S11)			A3 126 84.0	R12	1 MQ	A9 999 00/1M
C10)	110	PF		R13	1,8 MQ	A9 999 00/1M8
C11)	195	PF		R14	560 Ω	A9 999 00/560E
S12)						
S13)			A3 126 84.0			
C14)	110	PF				MW/MZ
C15)	195	PF				
S14)			A3 169 16.0			
S15)						
C2	12-500	PF )	49 001 56.1			
C3	12-500	PF )				
C4	2,2	PF	A9 999 04/2E2			
C5	25	PF	A9 999 07/2E-			
C6	3900	PF	25E A9 999 04/3K9			
C7	10	PF	A9 999 04/10E			
C8	120	PF	A9 999 04/120E			
C9	47	PF	A9 999 04/47E			
C10	110	PF )	See coils			
C11	195	PF )	Voir bobines Vease bobinas			
C12	4700	PF	A9 999 06/47K			
C13	1,5	PF	A9 999 04/1E5			
C14	110	PF )	See coils			
C15	195	PF )	Voir bobines Vease bobinas			
C16	8	μF	A9 999 11/L8			
C17	56	PF	A9 999 04/56E			
C18	1000	PF	A9 999 06/1K			
C19	47000	PF	A9 999 06/47K			
C20	2700	PF	A9 999 06/2K7			
C21	4700	PF	A9 999 06/4K7			
C22	25	μF	A9 999 11/G25			
C25	475	PF	A9 999 07/360E- 575E			
C26	30	PF	28 212 36.4			
C27	68	PF	A9 999 04/68E			

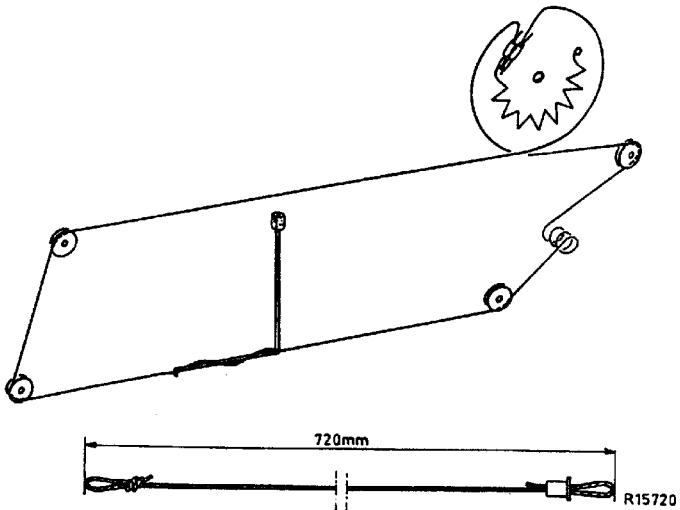
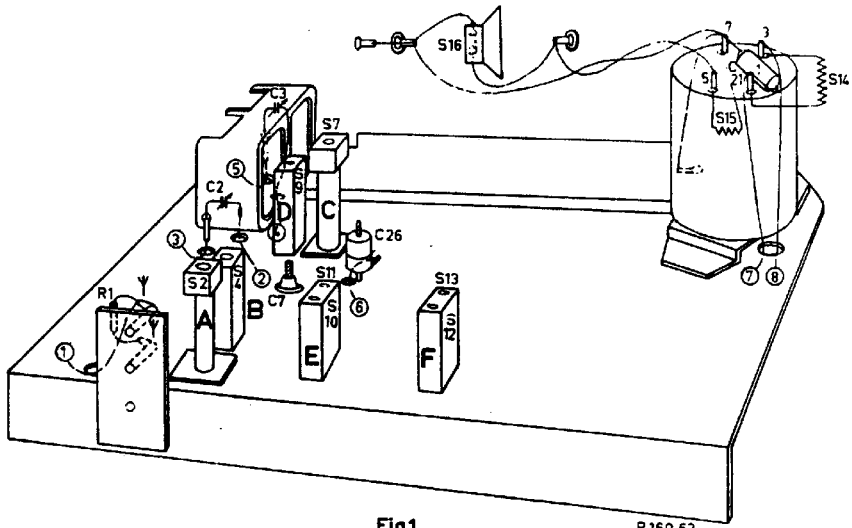


Fig.2

S:	19, 20	22	18, 27	10	7	6	5	F	17	16	25, 12	7	9	13	6, 8	B, A	5
C:	14, 13	9, 8, 11	12														
R:																	

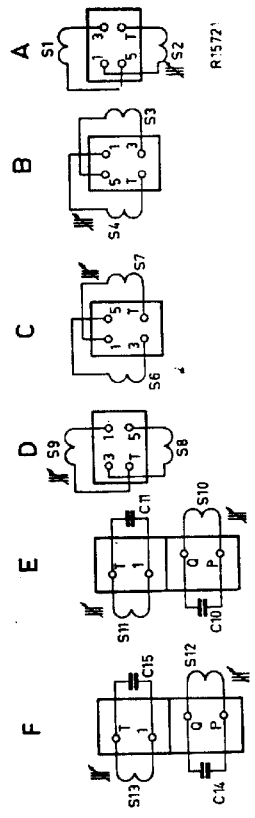
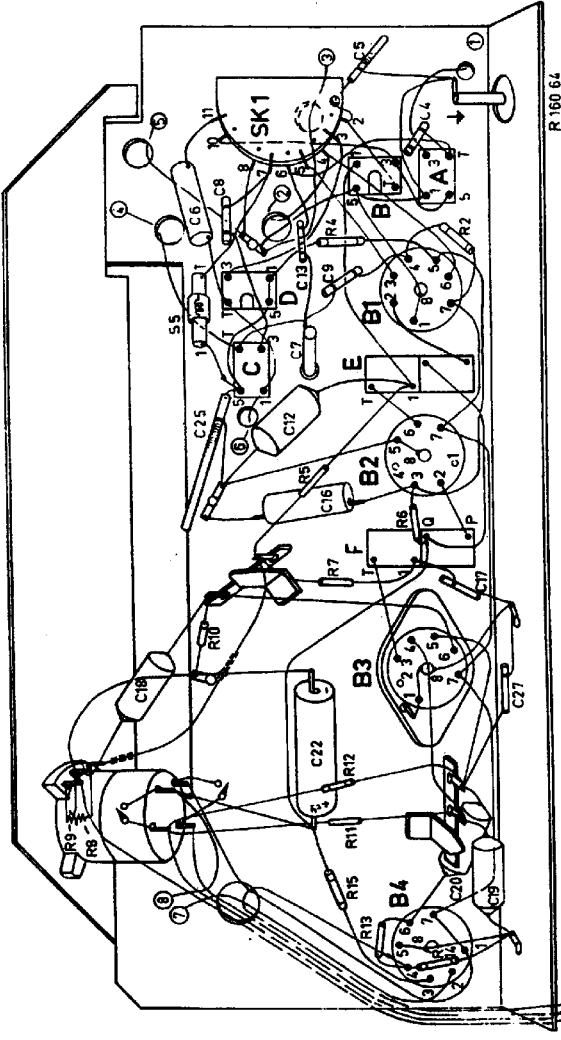
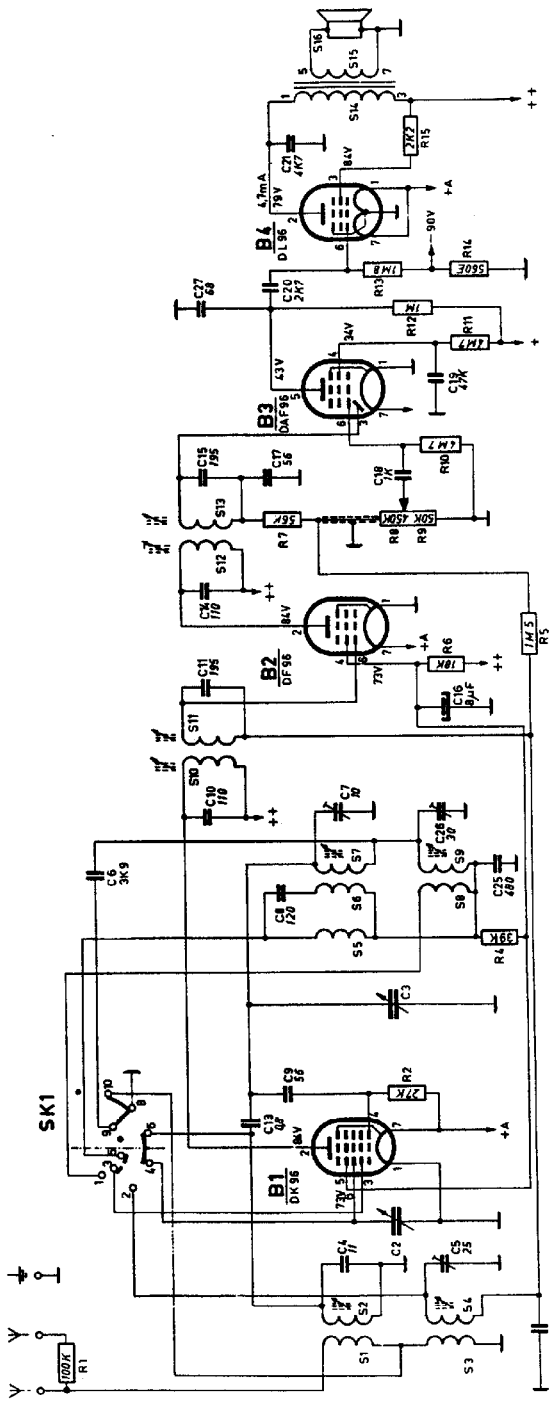


Fig. 3

R 15721

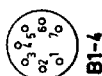


S:	1, 2, 3, 4,	5,	6, 7, 8, 9,	10,	11,	12,	13,	14,	15,	16,	17,	18,	19,	20,	21,	22,	23,	24,	25,	26,	27,	28,	29,	30,	31,	32,	33,	34,	35,	36,	37,	38,	39,	40,	41,	42,	43,	44,	45,	46,	47,	48,	49,	50,	51,	52,	53,	54,	55,	56,	57,	58,	59,	60,	61,	62,	63,	64,	65,	66,	67,	68,	69,	70,	71,	72,	73,	74,	75,	76,	77,	78,	79,	80,	81,	82,	83,	84,	85,	86,	87,	88,	89,	90,	91,	92,	93,	94,	95,	96,	97,	98,	99,	100,						
C:	1,	2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	15,	16,	17,	18,	19,	20,	21,	22,	23,	24,	25,	26,	27,	28,	29,	30,	31,	32,	33,	34,	35,	36,	37,	38,	39,	40,	41,	42,	43,	44,	45,	46,	47,	48,	49,	50,	51,	52,	53,	54,	55,	56,	57,	58,	59,	60,	61,	62,	63,	64,	65,	66,	67,	68,	69,	70,	71,	72,	73,	74,	75,	76,	77,	78,	79,	80,	81,	82,	83,	84,	85,	86,	87,	88,	89,	90,	91,	92,	93,	94,	95,	96,	97,	98,	99,	100,
R:	1,	2,	3,	4,	5,	6,	7,	8,	9,	10,	11,	12,	13,	14,	15,	16,	17,	18,	19,	20,	21,	22,	23,	24,	25,	26,	27,	28,	29,	30,	31,	32,	33,	34,	35,	36,	37,	38,	39,	40,	41,	42,	43,	44,	45,	46,	47,	48,	49,	50,	51,	52,	53,	54,	55,	56,	57,	58,	59,	60,	61,	62,	63,	64,	65,	66,	67,	68,	69,	70,	71,	72,	73,	74,	75,	76,	77,	78,	79,	80,	81,	82,	83,	84,	85,	86,	87,	88,	89,	90,	91,	92,	93,	94,	95,	96,	97,	98,	99,	100,

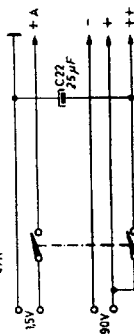


R 160 CC

Fig. 4



B1-4



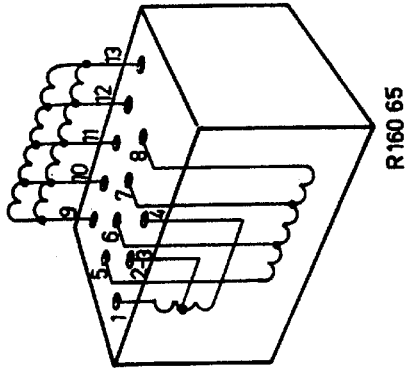
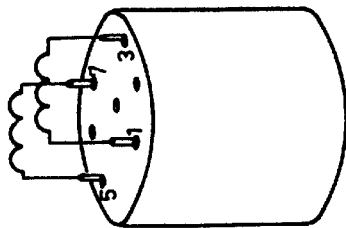


Fig.5



N.V. PHILIPS  
GLOEILAMPEN-  
FABRIEKEN  
EINDHOVEN

# Service Information

No. Ba 184

11-9-1956

CENTRAL  
SERVICE  
DIVISION

GROUP: Apparatus

ARTICLE: Radio

TYPE: BX236B-75

WM/JG

ALREADY PUBLISHED:

RE:

If in the abovementioned set parasitic oscillation occurs, this can be remedied by connecting a resistor of 18 k $\Omega$  (A9 999 00/18K) between the aerial socket and the chassis.

-----

Si dans l'appareil susmentionné il se produit des oscillations parasites on peut y remédier en intercalant une résistance de 18 k $\Omega$  (A9 999 00/18K) entre la douille d'antenne et le châssis.

-----

Si en el aparato mencionado arriba se produce una alimentación de oscilaciones no deseadas, esto puede remediarse intercalando una resistencia de 18 k $\Omega$  (A9 999 00/18K) entre la hembrilla de antena y el chasis.

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CENTRAL SERVICE DIVISION

A. van Heulen.

# PHILIPS

## SERVICE NOTES

for the receiver

**BX 236 B-77**

1955. For battery supply.

Controls

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

I.F. : 452 kc/s.Battery voltages

Vf = 1.5 V  
Vb = 90 V

Waveranges

S.W.3 : 40.6 - 136.4 m (7.4 - 2.2 Mc/s)  
S.W.2 : 13.6 - 40.6 m (22 - 7.4 Mc/s)

Consumption

Ia = 10 mA (90 V)  
If = 125 mA (1.4 V)

Valves

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

Dimensions

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

LoudspeakerType 9742 Z (Z = 5  $\Omega$ ).

Trimming the receiver.

When trimming the rule is:

Volume control on maximum.

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

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 the cores of S10, S11, S12 and S13).				
Waverange	Tuning capacitor	Signal	Trim	Indication
S.W.3	min.	452 kc/s via 33000 pF to g3 of B1	S13	Max. output
			S12	Max. output
			S10	Max. output
			S11	Max. output
			S12	Max. output

R.F. circuits.

When trimming the R.F. circuits, one makes use of trimming points on the dial.

Trimming point 1 is on the left-trimming point 2 is on the right of the dial.

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

Waverange	Pointer on trimming point	Signal	Trim	Indication
S.W.2	2	7.65 Mc/s	S7 S2	Max. output Max. output
	1	22.2 Mc/s	C7	Max. output
S.W.3	2	2.35 Mc/s	S9 S4	Max. output Max. output
	1	7.5 Mc/s	C26 C5	Max. output Max. output

Remove the chassis from the cabinet.

1. Remove the rearpanel and knobs.
2. Remove the switch lever at the right side by removing a spring clip at the inner side.
3. Loosen the chassis fixing by removing the 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.

LIST OF PARTS

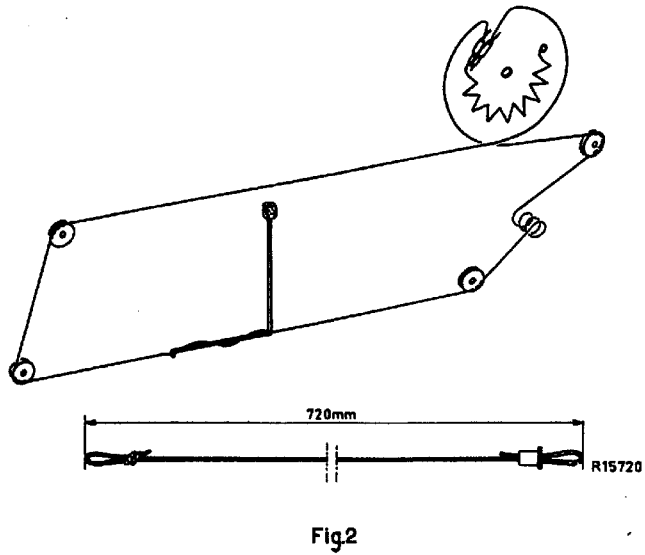
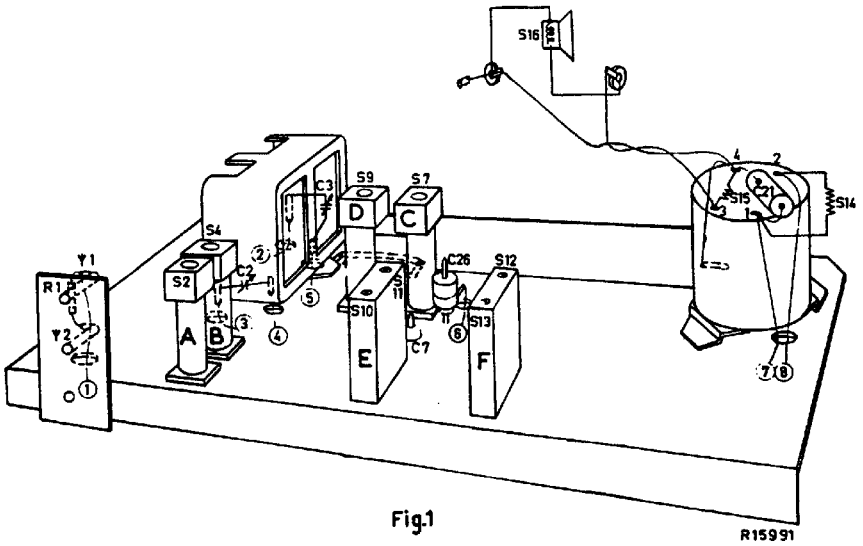
When ordering always quote:

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

		Description	Code number
		Cabinet Knob Slider for waverange switch Leaf spring Variable capacitor Vernier tuning Spring in driving drum	A3 750 59.0 A3 738 49.0 P4 380 92/19 A3 650 50.0 49 001 56.0 A3 396 68.0 A3 646 57.0  MW/MZ <i>1/2</i>

BX 236 B-77

S1 )			A3 125 26.0	C17	56	pF	A9 999 04/56E
S2 )				C18	1000	pF	A9 999 06/1K
S3 )			A3 119 68.0	C19	47000	pF	A9 999 06/47K
S4 )				C20	2700	pF	A9 999 06/2K7
S5			A3 118 45.0	C21	4700	pF	A9 999 06/4K7
S6 )				C22	25	μF	A9 999 11/C25
S7 )			A3 119 80.0	C25	2000	pF	A9 999 05/2K
S8 )				C26	30	pF	28 212 36.4
S9 )			A3 119 69.0	C27	68	pF	A9 999 04/68E
S10 )				R1	22000	Ω	A9 999 00/22K
S11 )				R2	27000	Ω	A9 999 00/27K
C10 )	110	pF	A3 126 84.0	R3	2,2	MΩ	A9 999 00/2M2
C11 )	195	pF		R4	22000	Ω	A9 999 00/22K
S12 )				R5	1,5	MΩ	A9 999 00/1M5
S13 )				R6	12000	Ω	A9 999 00/12K
C14 )	110	pF	A3 126 84.0	R7	56000	Ω	A9 999 00/56K
C15 )	195	pF		R8	0,45	MΩ	A9 999 16/
S14 )				R9	0,05	MΩ	DL50K+450K
S15 )			A3 169 27.0	R10	4,7	MΩ	A9 999 00/4M7
C1	100	pF	A9 999 04/100E	R11	2,7	MΩ	A9 999 00/2M7
C2	11-489	pF)		R12	1	MΩ	A9 999 00/1M
C3	11-489	pF)	49 001 56.1	R13	1,8	MΩ	A9 999 00/1M8
C4	34	pF	A9 999 04/33E)	R14	560	Ω	A9 999 00/560E
		par	A9 999 04/1E )	R15	2,2	MΩ	A9 999 00/2M2
C5	25	pF	A9 999 07/25E	R16	2200	Ω	A9 999 00/2K2
C6	10	pF	A9 999 04/10E				MW/MZ
C7	12	pF	49 005 64.2				
C8	47	pF	A9 999 04/47E				
C9	47	pF	A9 999 04/47E				
C10			(See coils				
C11			(Voir bobines				
			(Veanse bobinas				
C12	47000	pF	A9 999 06/47K				
C13	1,2	pF	A9 999 04/1E2				
C14			(See coils				
C15			(Voir bobines				
			(Veanse bobinas				
C16	8	μF	A9 999 11/L8				





S:	F																C.E. 16		D.		5. BA.		15.		14.	
C:	19.	20.	22.	10.27.	2.	3.	17.	16.	26.	12.	25.	6.7.	8.	13.9.1.	4.	21.	5.									
R:	14.	13.16.1.	11.	12.	9.8.	10.	7.	6.	5.					15.	2.	3.	4.									

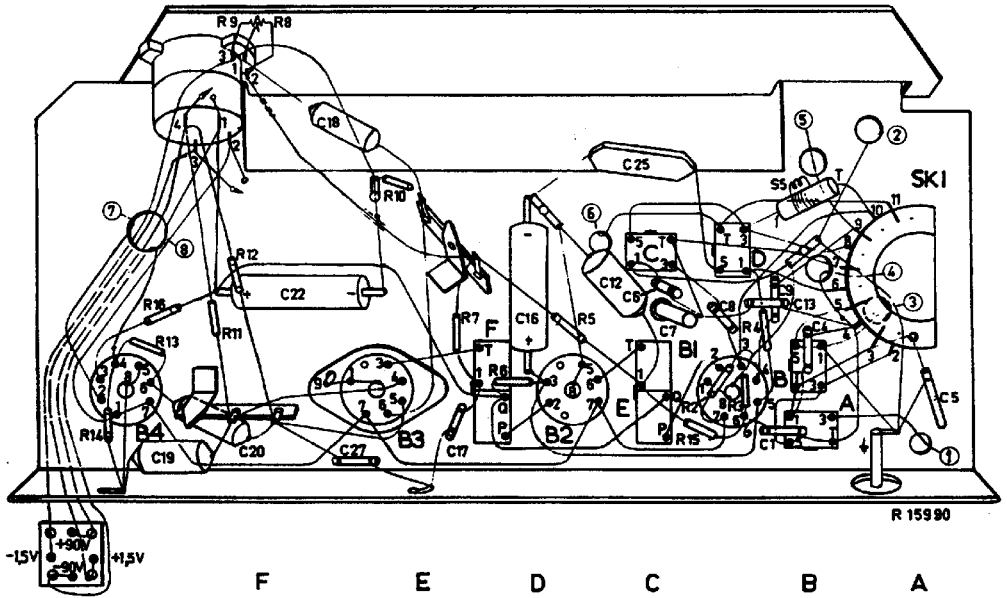
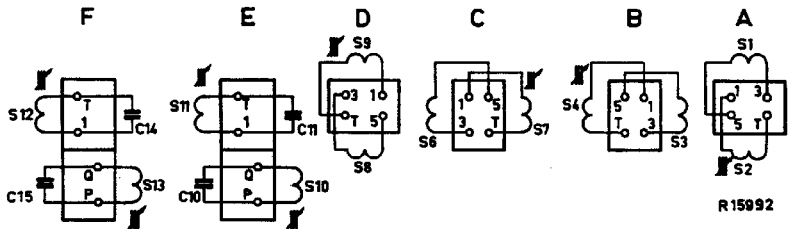


Fig.3



R 15992

8	1, 2, 3, 4	5, 6, 7, 8, 9	10, 11	12	13	14	15, 16
C	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60	61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160	161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200	201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260	261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300	301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360

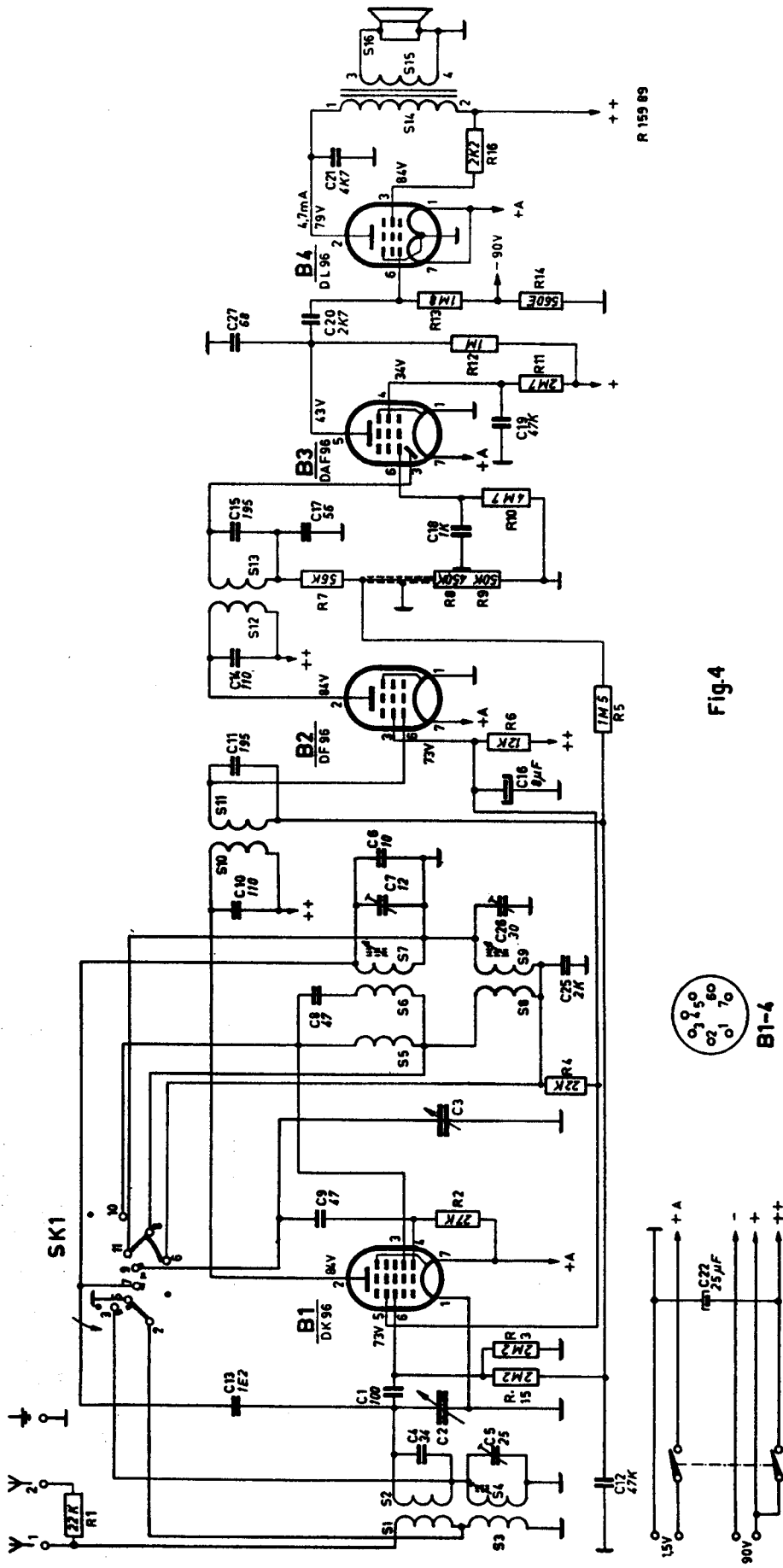


Fig. 4

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# PHILIPS

## SERVICE NOTES

for the receiver

### BX 236 B-97

1955

For battery supply

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This receiver is equal to the BX236B-77 with the following exception:

Remove

Output transformer

A3 169 27.0

Add

Output transformer

A3 153 24.0



MW/EG