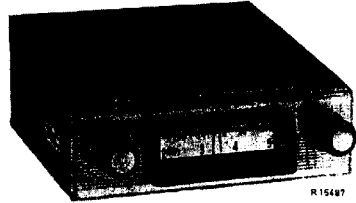


PHILIPS

SERVICE NOTES

for the car-radio



R15487

N3X66V

1957. For 6 or 12 V battery supply

Waverange

M.W. : 186 - 585 m (1613 - 513 kc/s)

Valves

B1 : ECH81
 B2 : EBF80
 B3 : EBC81
 B4 : EL95

Dial lamp

7994 N-00

Controls

At the left : ^{Tuning}
 : Tone control

At the right: Volume control
 : Battery switch

Slide switch

Position M. Medium wave reception
 Position S. Short wave reception
 in combination with short
 wave unit

I.F.

452 kc/s

Vibrator

AP 6002

Consumption

2.5 A (6 V)
 1.3 A (12V)

Loudspeaker

e.g. AF 7321
 AF 7322
 AF 7331
 AF 7332
 AF 7310

Fuses

6.3 A (6 V)
 3.15 A (12V)

93 988 19.1.05

The alignment of the receiver

Volume control to maximum.

Connect a voltmeter via trimming transformer to the secondary winding of the loudspeaker transformer.

Unless otherwise stated, the signals are applied to the aerial socket via a dummy aerial (see fig.1).

I.F. Band pass filters.

Unscrew the cores of S4, S5, S6 and S7 as far as possible.

Waverange	Tuning	Connect oscilla- tor to	Signal	Trim for maximum output voltage
M.W.	Turn pointer entirely to the left	g1B1 via 33.000 pF	452 kc/s	S7, S6 S4, S5

R.F. Part

Place C3 in the middle position.

M.W.	Turn the point- er entirely to the right		508 kc/s	C10
	1580 kc/s tune		1580 kc/s	C4

The adjustment of the aerial trimmer C3

The adjustment of C3 should be done when the receiver has been mounted in the car again.

A. receiver without S.W. unit

Turn receiver to a very weak station (waverange +510 m) Adjust the aerial to maximum height.

Adjust C3 to maximum sound volume.

B. Receiver with short wave unit

Adjust aerial to maximum height.

Press in the 0 knob of the short wave unit.

Turn the receiver to a very weak station (waverange +510 m).

Adjust C3 to maximum sound volume.

Now press in one of the push buttons for the waveranges of the short wave unit.

Turn the receiver to a very weak station so that the pointer indicates about 300 m.
Now adjust C3 to maximum sound volume.

Output transformer

When the output transformer should become defective, it should be replaced by the service transformer mentioned in the electrical parts list (See fig.3).

List of spare parts

Description	Codenummer
Cap for station dial	A3 771 38.0
Switch strip	A3 664 22.0
Contact spring	A9 999 71/10
Contact piece	A9 999 71/13
Contact piece	A9 999 71/26
Contact piece	A9 999 71/16
Battery filter with cable	A3 739 46.0
Tension spring in pointer cord	A3 646 90.0
Front plate	A3 750 76.0
Pressure spring behind knob	A3 644 89.0
Knob	A3 739 45.0
Slide for filter switch	A3 411 41.0
Leaf spring for filter switch	A3 650 50.0
Insert bush (drive)	A3 489 23.0
Insert bush (volume control)	A3 489 22.0
Noval valve holders	A9 999 76/9x12
Miniature valve holder	A9 999 76/7x10
Vibrator holder	A9 999 76/V8x17
Spring for coil can fixing	A3 652 58.3
Aerial socket with bracket	A3 705 67.0
Tuning unit	A3 696 09.0
Nut for potentiometer	49 758 21.0
Spindle for potentiometer	A3 432 95.0
Station dial	A3 807 65.0

S1		A3 115 77.0	C22	18000 pF	A9 999 06/V18K
S2			C23	2200 pF	A9 999 06/V2K2
S3			C24	0,47 μF	A9 999 06/470K
C8	115 pF	A3 696 09.0	C25	50 μF	AC 5951/50
C9	115 pF		C26	0,1 μF	A9 999 06/V100K
S4			C27	6800 pF	A9 999 06/V6K8
S5			C28	6800 pF	A9 999 06/V6K8
C11	110 pF	A9 999 25/452	C29	3300 pF	A9 999 06/3K3
C12	195 pF		C31	820 pF	B1 664 13.0
S6			C32	820 pF	B1 664 13.0
S7			C33	820 pF	B1 664 13.0
C15	110 pF	A9 999 25/452	C34	820 pF	B1 664 13.0
C16	195 pF		C35	220 pF	A9 999 04/220E
S8			C39	100 pF	A9 999 04/100E
S9		A9 999 18/03	C40	15 pF	A9 999 04/15E
S11			C41	15 pF	A9 999 04/15E
S12		A3 115 78.0	C42	15 pF	A9 999 04/15E
S13			C43	150 pF	A9 999 04/150E
S14					
S15		A3 161 73.0	R1	1000 Ω	A9 999 00/1K8+2K2(par)
S16			R2	0,82 MΩ	A9 999 00/820K
S17			R3	22000 Ω	A9 999 00/22K
S18		A3 114 22.0	R4	33000 Ω	A9 999 00/33K
S20		A3 802 81.0	R5	47000 Ω	A9 999 00/47K
S21		A3 802 79.0	R6	47000 Ω	A9 999 00/47K
S22		A3 802 80.0	R7	1,5 MΩ	A9 999 00/1M5
C1	20 μF	A9 999 13/	R8	47000 Ω	A9 999 00/47K
C2	20 μF	N25+25	R9	50.000 Ω+0,45MΩ	A9 999 16/DL50K+450K
C3	60 pF	A9 999 08/60E	R10	10 MΩ	A9 999 00/10M
C4	100 pF	A9 999 07/20E-100E	R12	0,1 MΩ	A9 999 00/100K
C5	100 pF	A9 999 04/100E	R13	0,56 MΩ	A9 999 00/560K
C7	18 pF	A9 999 04/18E	R14	330 Ω	A9 999 00/330E
C10	60 pF	A9 999 08/60E	R15	1000 Ω	A9 999 00/1K
C13	47000 pF		R16	18 Ω	A9 999 00/18E
C14	47000 pF		R17	3900 Ω	A9 999 00/3K9
C19	47000 pF	A9 184 55:0	R18	3900 Ω	A9 999 00/3K9
C20	47000 pF		R19	0,1 MΩ	A9 999 00/100K
C17	10000 pF	A9 999 04/10K	R20	220 Ω	A9 999 00/220E
C18	100 pF	A9 999 04/100E	R22	82 Ω	A9 999 00/82E
C21	820 pF	B1 664 13.0	R24	1000 Ω	A9 999 00/1K
			R25	4700 Ω	A9 999 00/4K7

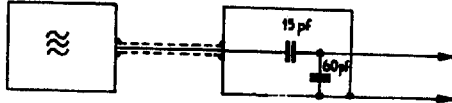


Fig.1

R 13963

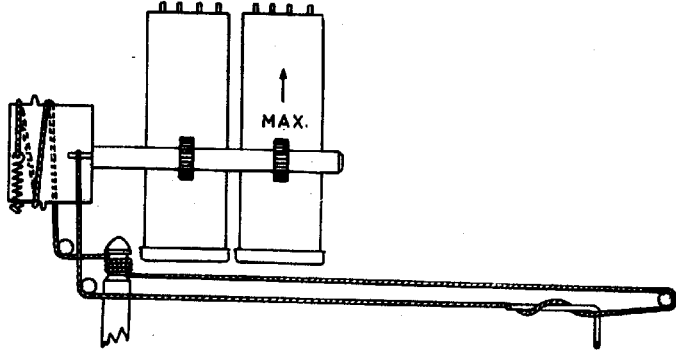
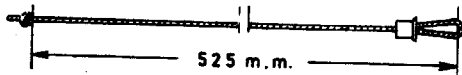


Fig.2



R15383

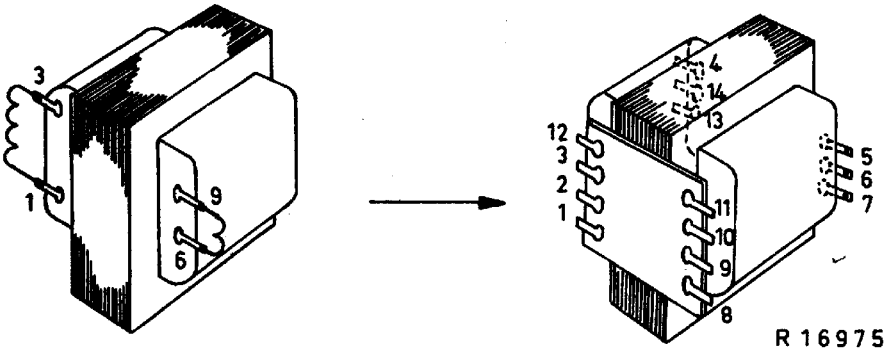


Fig.3

R 16975

25	22	2	5	6	3	4	7	8	9	10	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
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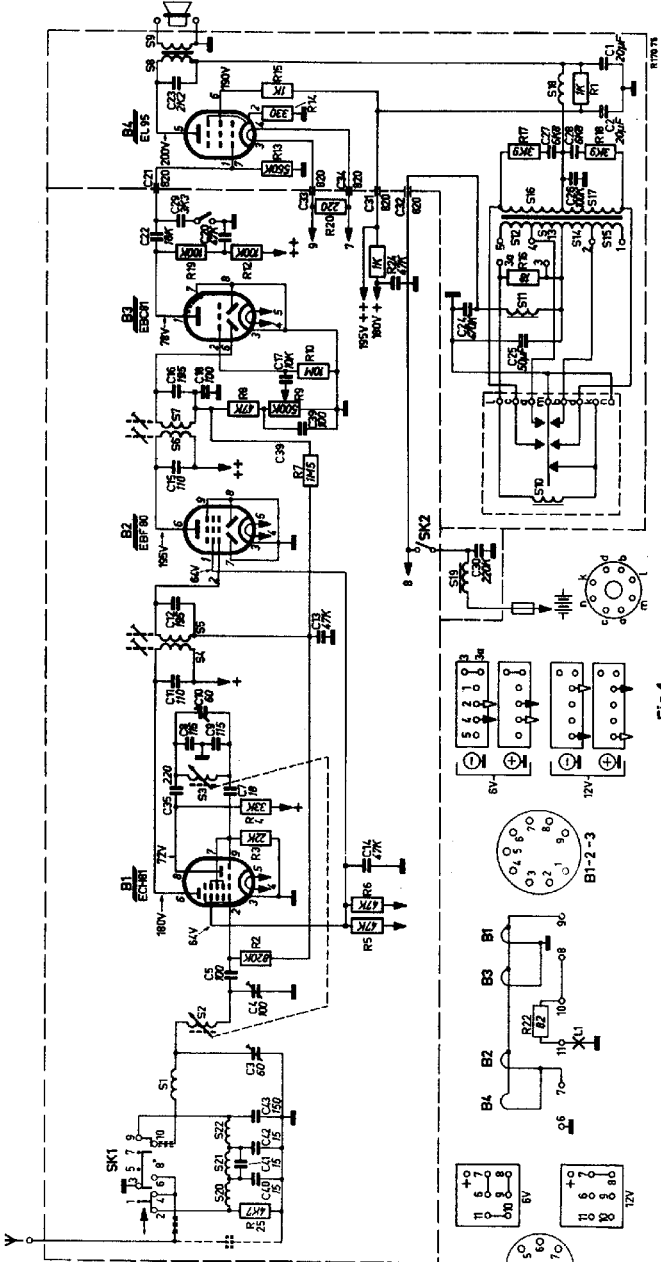


Fig. 4

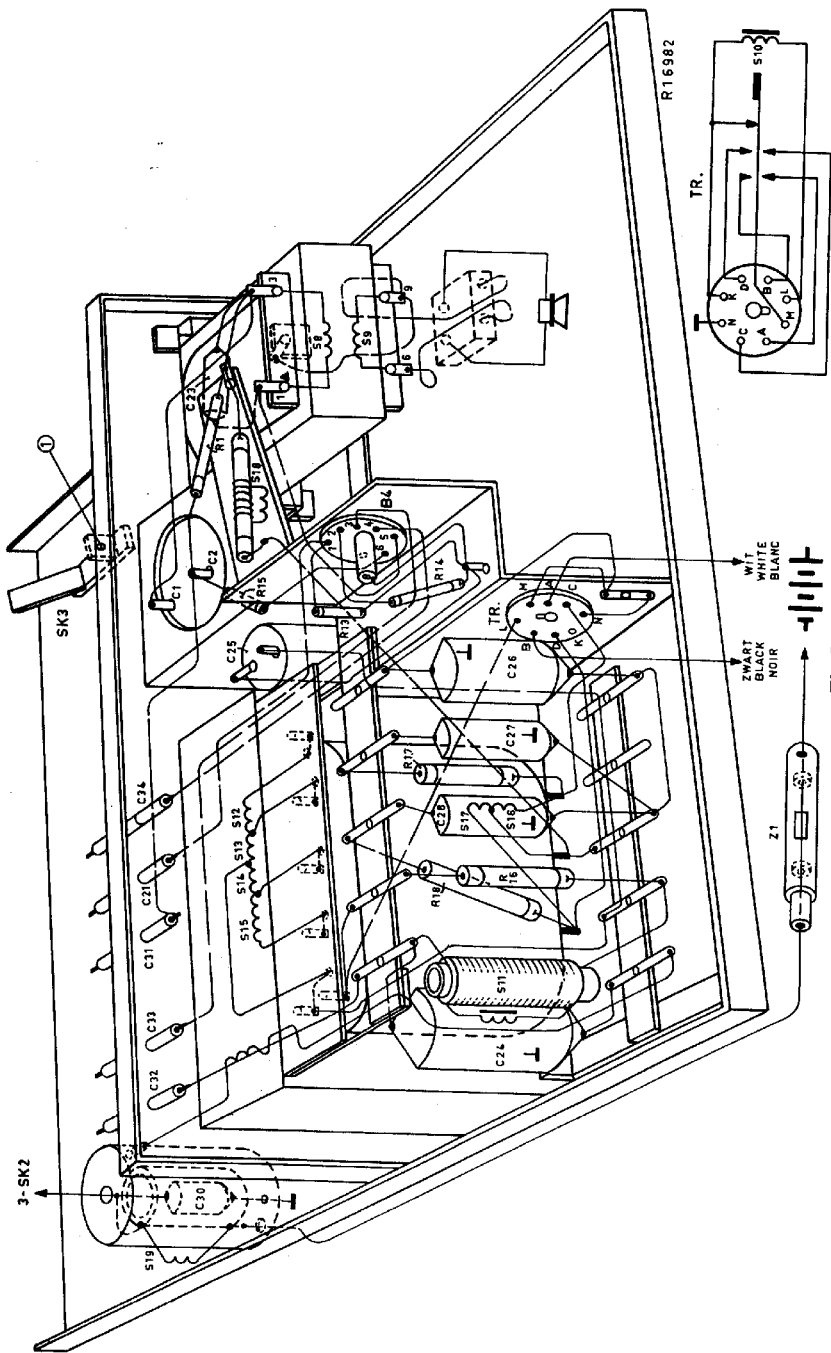


Fig.5

S						D	G		F	C	E	B		1	A
C	17	22	43	42	20	19	29	13	14	40	41	10	35	7	534
R	20	22	9	10		19	12	24	7	6	25	5	4	2	3

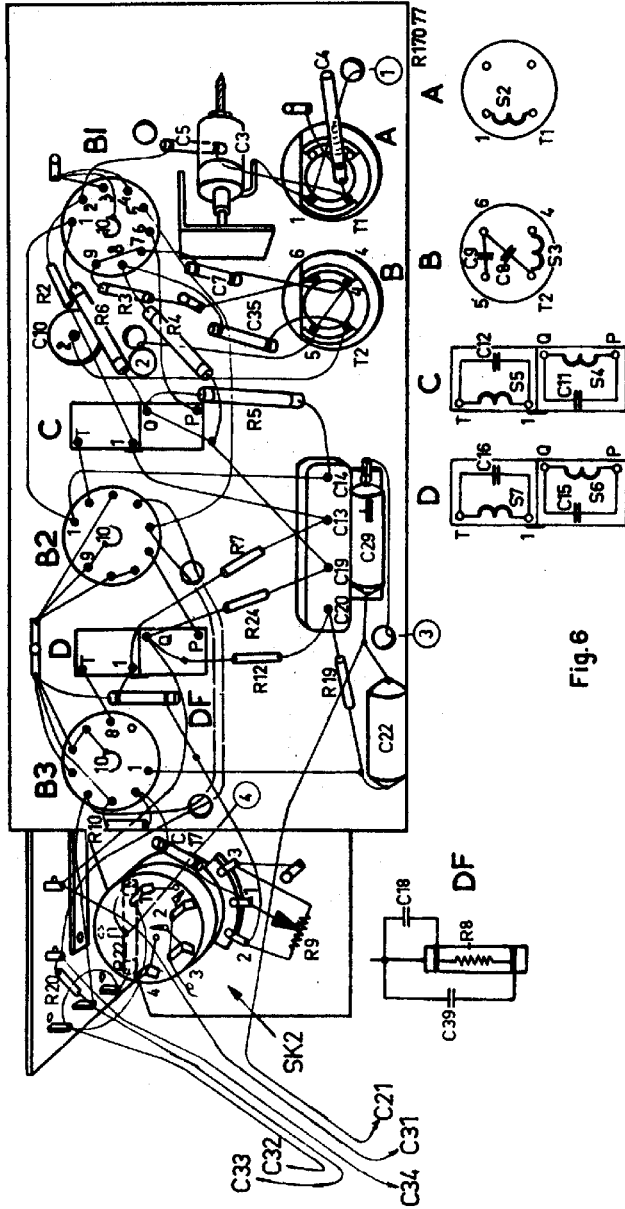


Fig. 6

