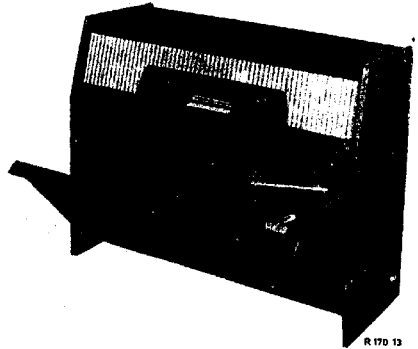


PHILIPS

SERVICE NOTES

for the receiver

F6X66A-01-61



1956.

For A.C. mains supply.

Push buttons

From left to right:

Mains switch

P.U.

M.W.	:	185	-	580	m	(1622	-	517	kc/s)
S.W.3	:	59	-	187	m	(5,1	-	1,6	Mc/s)
S.W.2c	:	25	-	60	m	(12	-	5	Mc/s)
S.W.2b	:	16,75	-	25,6	m	(17,9	-	11,7	Mc/s)
S.W.2a	:	11,4	-	16,94	m	(26,2	-	17,7	Mc/s)

Controls

From left to right:

Small knob	-	low tone control
Large knob	}	- volume control
Small knob		
Small knob	-	tuning
Large knob	-	aerial tuning + S.W. vernier tuning
Small knob	-	high tone control

Valves

B1 : EF89	B5 : EL84
B2 : ECH81	B6 : EM80
B3 : EBF80	B7 : EZ81
B4 : ECC83	B8 : EL84
	B9 : EF86

I.F.: 452 kc/s

Mains voltages

90-110-127-145-180-200-
220V.

Consumption

90 Watt approx.

Loudspeakers

Type AD 3700 M (Z = 5)
Type AD 3800 (Z = 5)

Dimensions

Length : 938 mm
Width : 385 mm
Height : 760 mm

Dial lamps

L1 : 8024N-91
L2 : 8024N-91

Record changer

AG 1003-75 (01)
AG 1003-46 (61)

General

- A. The apparatus has a vernier tuning on S.W.2a and S.W.2b.
This vernier tuning is mechanically coupled with the ferroceptor control.
In extreme left position of this control the core of S40 is completely drawn in.
- B. The diagrams have been drawn for the -01 version (50 c/s).
The gramophone motor is connected to 127 V for the -61 version.
For that reason the connection from point 1 of the connecting block A2 to point 7 of the mains transformer for the -61 version should be replaced by the dotted connection from point 1 of the connecting block A2 to point 4 of the mains transformer.

Cord drive.

The length and the path of the cables are indicated in fig.1.
Here the variable capacitor is drawn in maximum position.

Transformer

If the original power- and output-transformers become defective, they should be replaced by the service standard transformers, the code numbers of which are given in the electrical parts list.
For connections see fig.2.

Trimming of the receiver.

For trimming the general rule is:

Volume control to maximum.

Tone control to "quality".

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

Unless otherwise stated all signals are applied to the aerial sockets via a dummy aerial.

Trimming point 1 refers to the left, trimming point 2 to the right side of the dial.

Previously the cores of the I.F. bandfilters has to be turned outward as far as possible.

The pointer should be adjusted to trimming point 1 with the variable capacitor in minimum position.

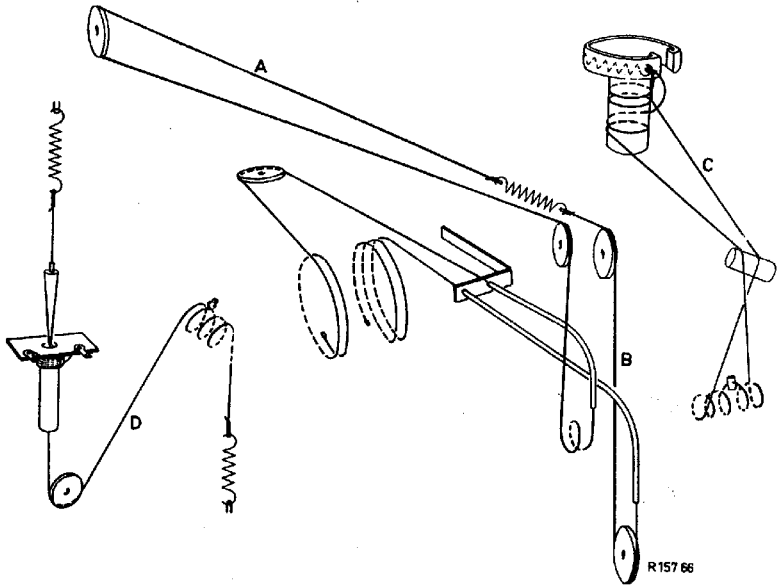
	Wave-range	Pointer at trimming point	Apply a signal of	Trim at max. output	Indication
I.F. band-filters	M.W.	1	452 kc/s to g1B2 via 33000 pF	S28,S27,S25 S26,S27	
R.F. and oscillator circuits	S.W.2a	2	17,8 Mc/s	S17,S11 S6	Repeat
		1	26,4 Mc/s	C39,C20 C8	
	S.W.2b	2	11,75 Mc/s	S19,S12,S5	Repeat
		1	18 Mc/s	C40,C21,C66	
	S.W.2c	2	5,26 Mc/s	S20b,S13 S7	Repeat
		1	12,1 Mc/s	C62	
	S.W.3	2	1,72 Mc/s	S22, S14-14a S9	Repeat
		1	5,15 Mc/s	C35,C23 C12	
	M.W.	2	550 kc/s	S24,S15,S10- 10a	Repeat
		1	1630 kc/s	C36,C24,C14	

LIST OF PARTS

When ordering, always quote:

1. code number
2. description and colour
3. type number of the set.

	Description	Code number
	Screw nipple (fixing changer)	P5 515 65/14
	Pression spring (fixing changer)	A3 758 40.0
	Ring (for 45 r.p.m. records)	P4 380 39/17
	Box (in changer compartment)	P5 190 03/01
	Cover	P5 190 02/01
	Ornamental window (for EM 80)	A3 758 24.0
	Knob (small)	A3 751 59.0
	Knob (volume control)	A3 752 27.2
	Knob (ferroceptor)	A3 751 61.0
	Knob (tone control)	A3 752 69.0
	Spring (in knobs)	A3 522 08.0
	Push button	A3 417 70.0
	Spring (push button unit)	A3 650 18.0
	Strip (wave-range switches)	A3 664 90.0
	Mains-switch	A3 182 78.0
	Spring (mains-switch)	A3 646 81.0
	Cover (mains-switch)	P5 280 25/08
	Voltage adaptor	A3 229 76.0
	Gromm�t (for fixing dial)	P5 420 03/08
	Drum (ferroceptor)	P4 380 53.0
	Spring (ferroceptor)	89 312 10.3
	Switch (ferroceptor)	A3 186 83.0
	Spring (tuning)	49 936 88.0
	Dial	A3 809 21.0
		GS/FO



R15766

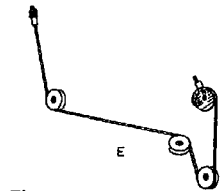
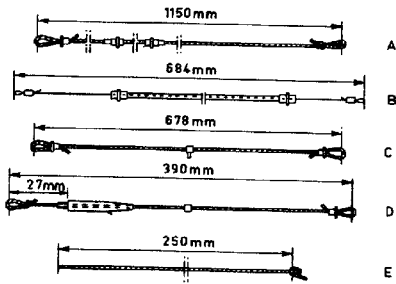


Fig.1

R 16555

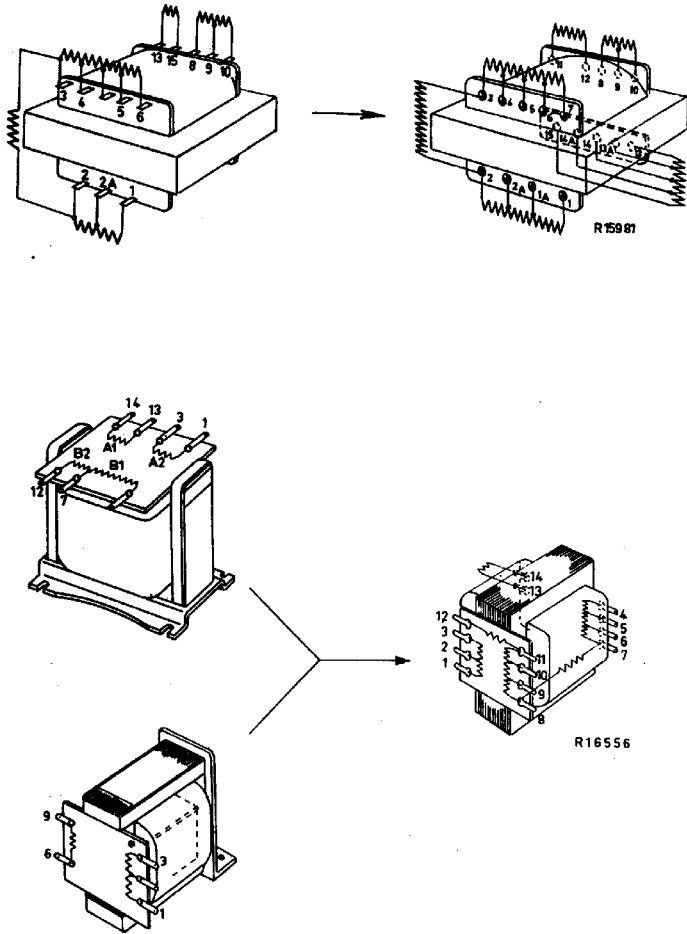


Fig2

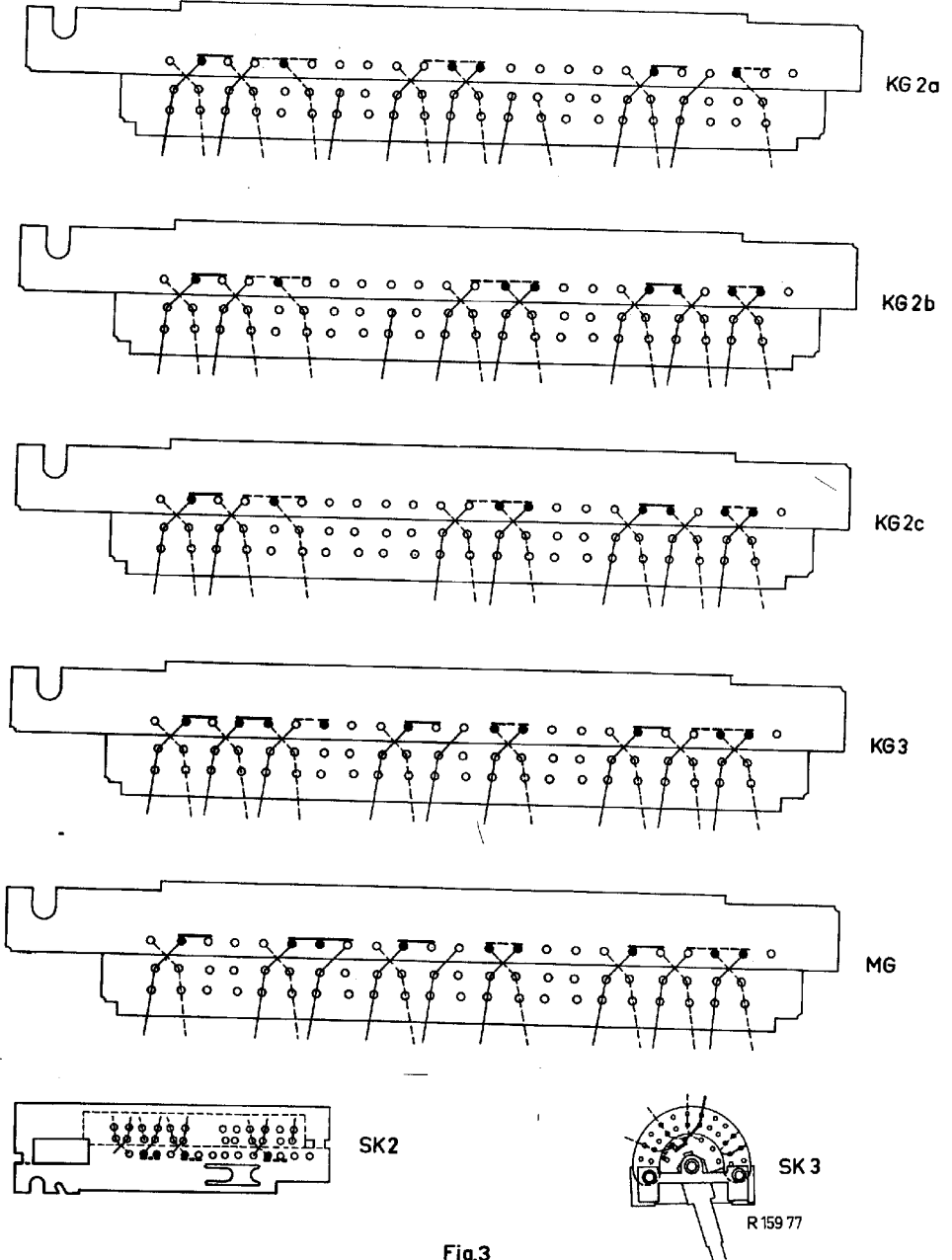


Fig.3

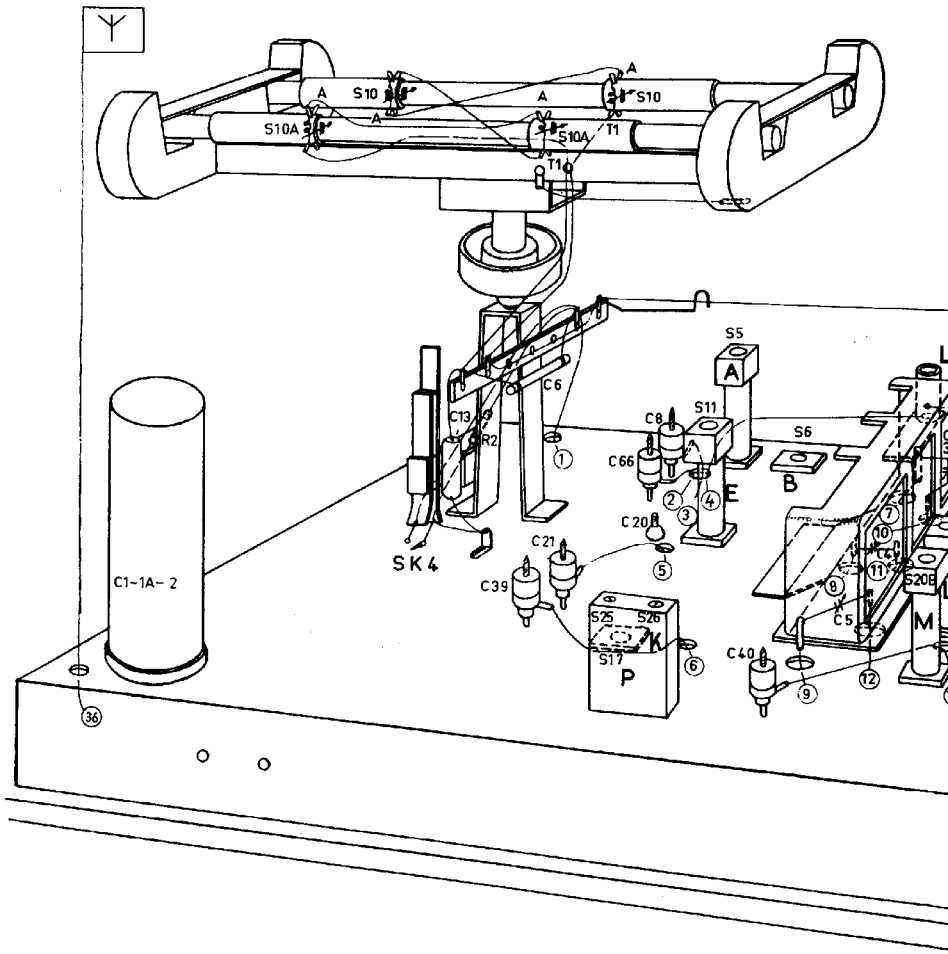
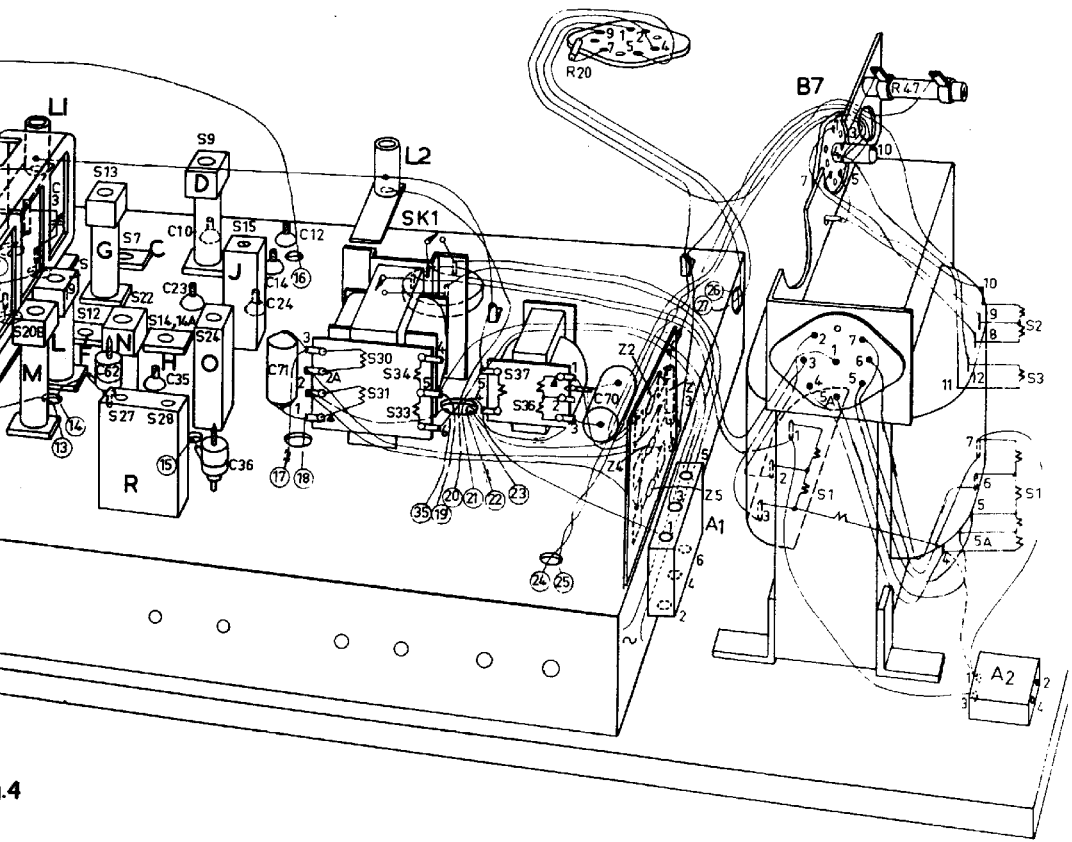


Fig.4



.4

S	5 6 7 9 10 10a										11-15										16-24										40										25 26																																																																															
C	6										60 13 66 10 12 8 11 14 3 7 4 15										16										19										52 18 24										20 21 22 23										26 4 27 5 27 31										72 28 30 5 29										32 63 33 39 40 62 35 36 61 34 65 37 38 41										151 42 150 153																													
R	2										45										3										4 6										5										60										52 18 24										34										8 7										9										10										57									

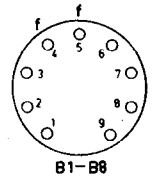
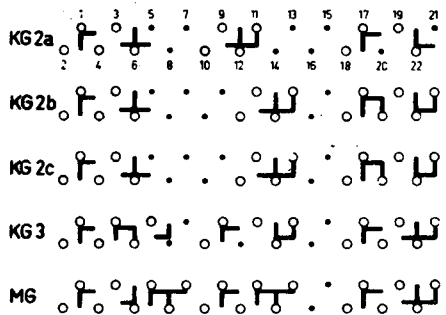
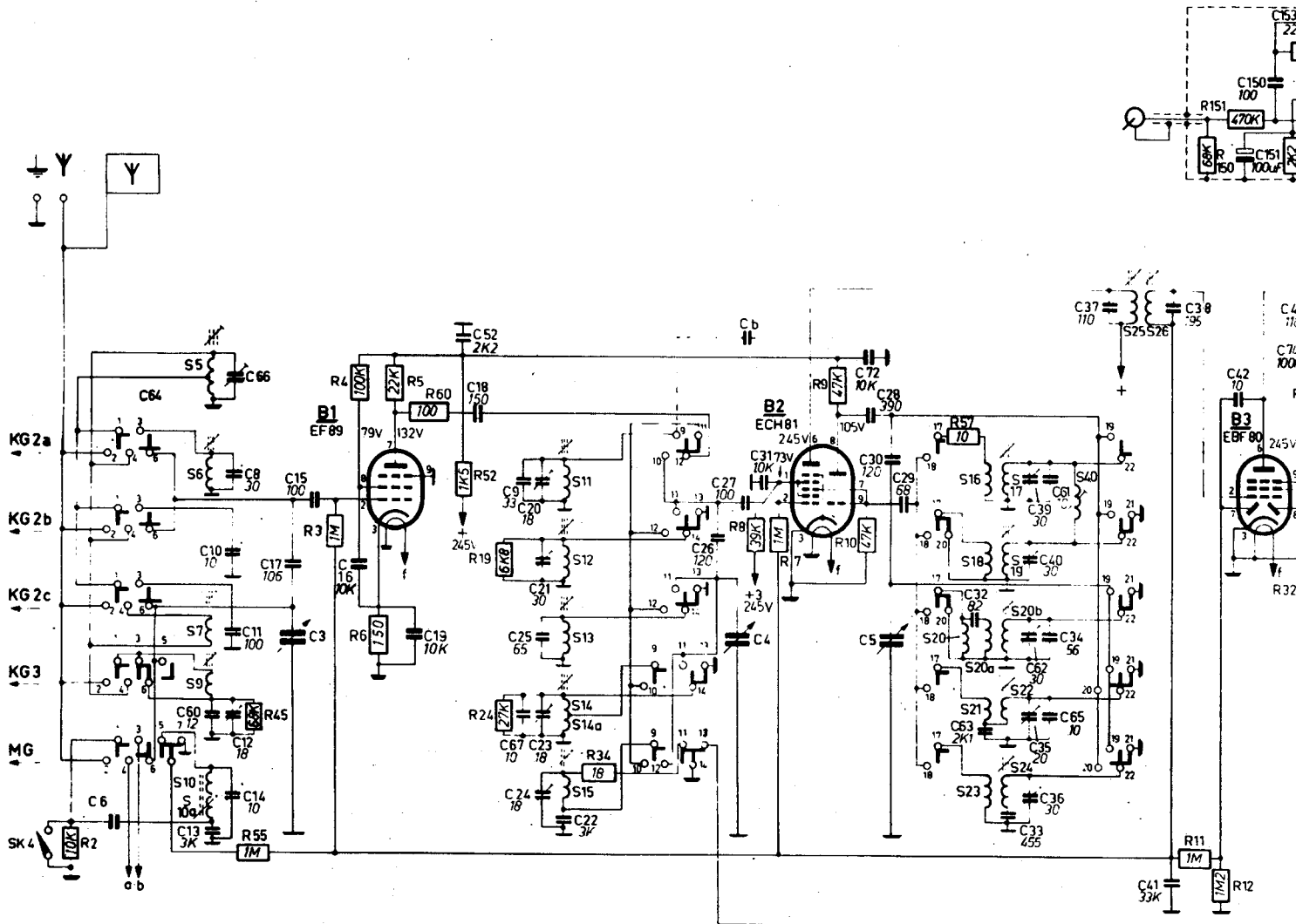
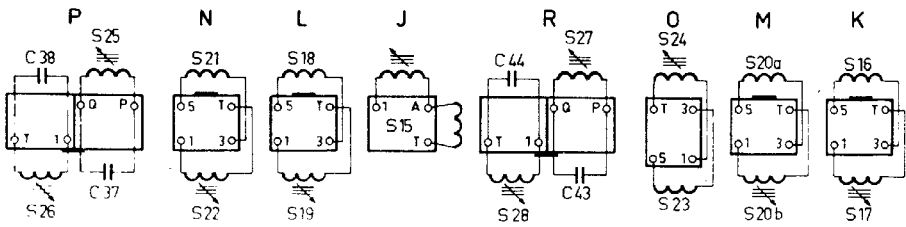
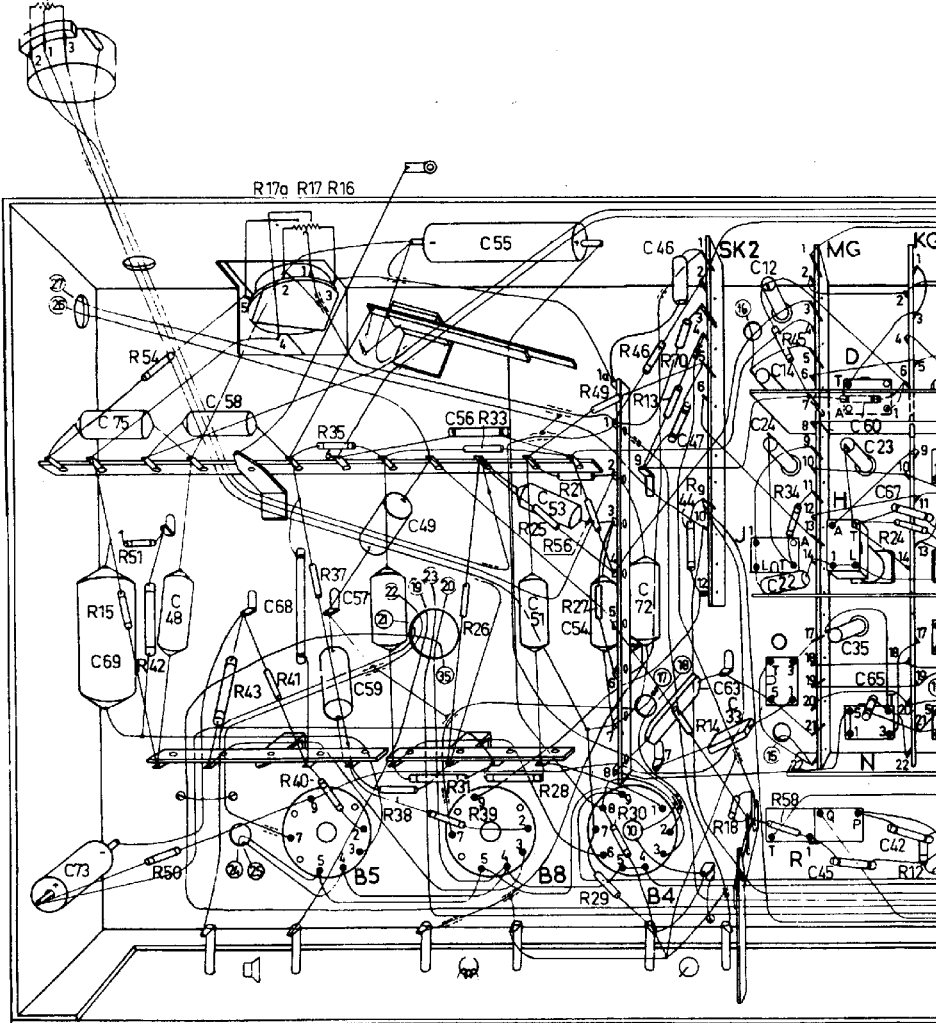


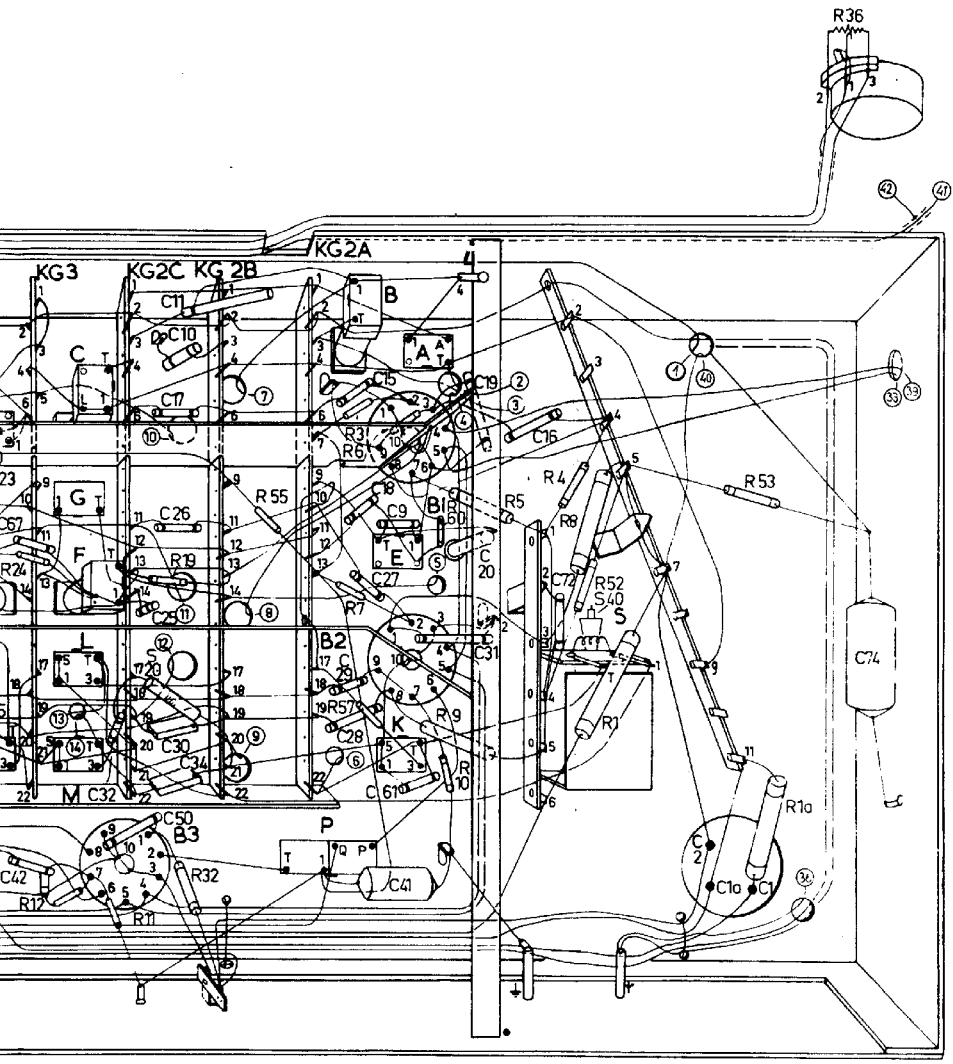
Fig 5

S																			J O R D H N																	
C	73	75	69	48	58	68	59	49	57	56	55	51	53	54	10	52	63	46	47	33	12	14	24	22	45	60	23	35	65	42						
R	22	23	15	51	42	54	50	43	41	17	16	37	40	35	38	31	39	26	33	28	25	21	56	27	43	29	30	46	13	14	44	18	58	45	34	24

R22 R23



C.G.F.L.M.	20.	P. B. E. K. A.	S.
35.85.42	32.50.25.17.26.30.34.11.	15.29.28.18.27.9.41.61.20.31.19.	16. 72.
4.	12. 11. 19. 32.	3 7. 57. 6. 60. 9. 10. 5.	2. 1a. 1. 74.
	55.		4. 8. 52. 1. 53. 1a. 36.



R17002

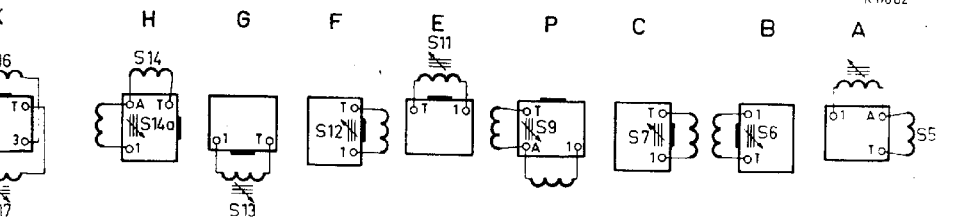


Fig.6

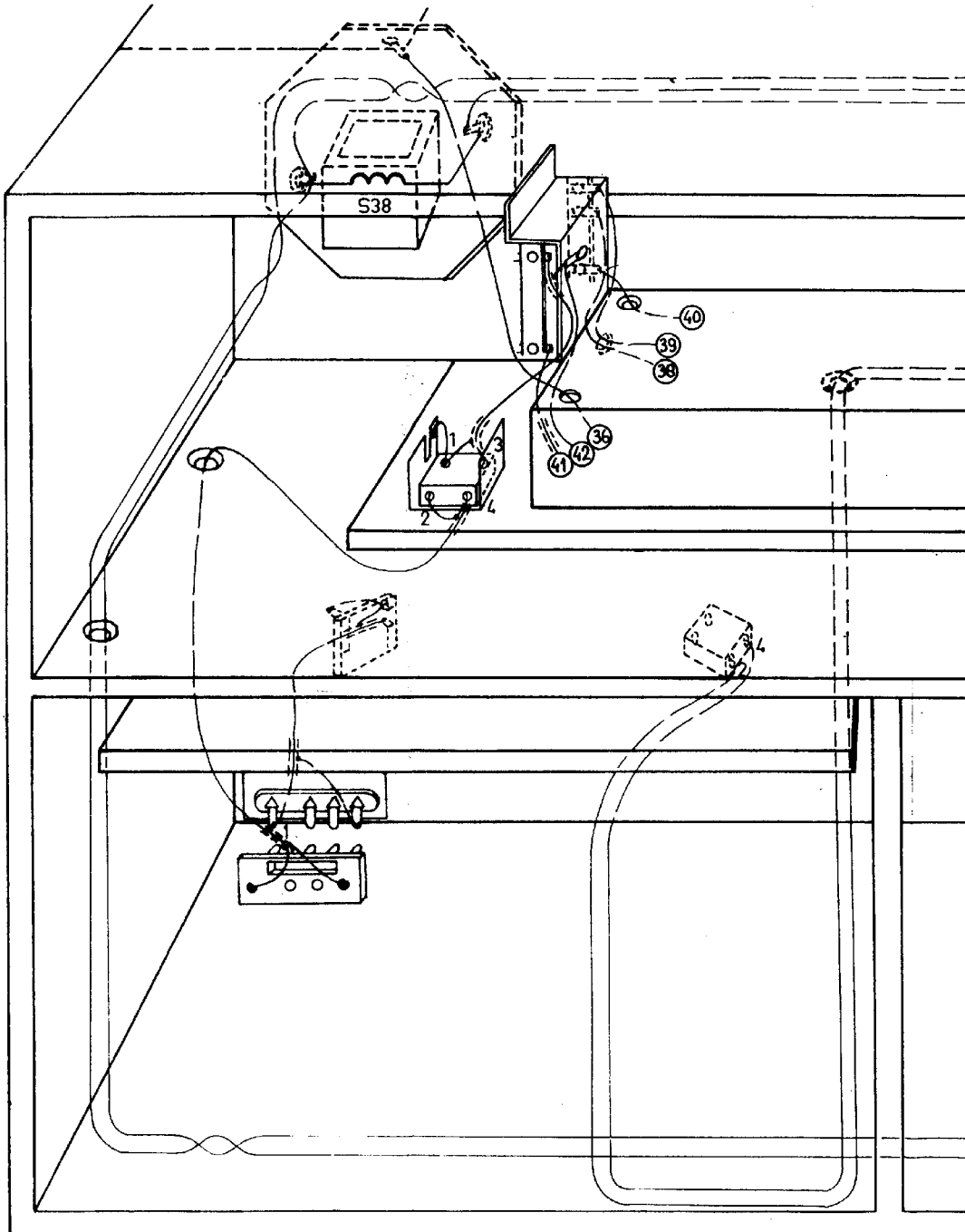


Fig.7

