

# SERVICE MANUAL



## KY 5476 KY 5477

Receiver for A.C. supply  
(Tropicalized)



### I. GENERAL DATA

- a. Waveranges:
- |          |             |
|----------|-------------|
| KY 5476  |             |
| S.W. I   | 11.5 - 24 m |
| S.W. II  | 23.5 - 51 m |
| S.W. III | 51 - 175 m  |
| M.W.     | 185 - 575 m |
- 
- |         |              |
|---------|--------------|
| KY 5477 |              |
| S.W. I  | 14.5 - 52 m  |
| S.W. II | 52 - 175 m   |
| M.W.    | 185 - 575 m  |
| L.W.    | 900 - 2000 m |
- b. Valves:
- |     |        |     |       |
|-----|--------|-----|-------|
| B 1 | ECH 81 | B 5 | EM 80 |
| B 2 | EF 41  | B 6 | EZ 80 |
| B 3 | EABC80 | B 7 | EC 92 |
| B 4 | EL 84  |     |       |
- c. Circuits:
- Tuned H.F.circuits: 1 + 1  
Tuned I.F.circuits: 2 + 2
- d. Intermediate frequency:
- Nominal A.M. 452 kc/s
- e. Sensitivity:
- Better than 10  $\mu$ V on S.W.I, S.W.II  
Better than 10  $\mu$ V on M.W.
- f. Output:
- 3.2 W at 10% distorsion, measured at 400 p/sec.
- g. Selectivity:
- 452 kc/s at a 10 fold attenuation 11 kc/s
- h. Mains voltage:
- Adjustable to 110V, 125V, 150V, 150V, 200V, 220V, 250V.
- i. Controls:
- Volume control  
Tone control bass  
Pushbuttons for mains switch, gramophone and 4 waveranges  
Tone control treble  
Tuning  
Aerial switch



### C o n d e n s e r s

C 1	47 pF	E 103 10/47E	C33	100 pF	E 360 02/100E
2	47 pF	E 103 10/47E	34	220 pF	E 360 02/220E
3	3000 pF	E 360 05/3K	35	50000 pF	E 220 10/50K
4	3-30 pF	7864/01	36	10000 pF	E 112 50/10K
5	1.5-12.5 pF	82754/12E5	37	10000 pF	E 112 50/10K
6	1.5-12.5 pF	82754/12E5	38	10000 pF	E 112 50/10K
7	6-25 pF	82754/25E	39	10000 pF	E 112 50/10K
8	15 pF	E 101 10/15E	40	1500 pF	E 110 50/1K5
9	10-450 pF)		41	10000 pF	GK 198 42
10	9-524 pF)	GK 210 55	42	100 pF	E 360 02/100E
11	470 pF	E 103 10/470E	43	220 pF	E 360 02/220E
12	270 pF	E 360 05/270E	44	5.6 pF	E 101 10/5E6
13	12 pF	E 101 10/12E	45	2200 pF	E 201 10/2K2
14	10000 pF	E 112 50/10K	46	10000 pF	E 201 10/10K
15	220 pF	E 103 10/220E	47	4700 pF	E 201 10/4K7
16	10000 pF	E 112 50/10K	48	100 μF	AC 5713/100
17	50 μF)		49	100 pF	E 103 10/100E
18	50 μF)	GK 180 12	50	2200 pF	E 201 10/2K2
19	10000 pF	E 112 50/10K	51	0.1 μF	E 201 10/100K
20	10 pF	E 125 10/10E	52	220 pF	E 103 10/220E
21	560 pF	E 361 10/560E	53	10000 pF	E 201 10/10K
22	47 pF	E 103 10/47E	54	2200 pF	E 201 10/2K2
23	50 μF	GK 180 33	55	100 μF	AC 5713/100
24	120 pF	E 103 10/120E	56	6800 pF	E 202 10/6K8
25	2000 pF	E 360 05/2K	57		
26	445 pF	E 360 01/445E	58	8 μF	AC 5123/8
27	220 pF	E 360 02/220E	59	0.1 μF	E 200 10/100K
28	1.5-12.5 pF	82754/12E5	60	0.1 μF	E 200 10/100K
29	1.5-12.5 pF	82754/12E5	61	300 pF	E 360 02/300E
30	1.5-12.5 pF	82754/12E5	62	300 pF	E 360 02/300E
31	6-25 pF	82754/25E	63	100 pF	E 103 10/100E
32	100 pF	E 103 10/100E			

### R e s i s t o r s

R 1	1 MΩ	GK 776 10/1M	R22	1 MΩ	GK 809 27
2	220 Ω	5496A/220E	23	68000 Ω	GK 776 10/68K
3	180 Ω	GK 776 10/180E	24	1000 Ω	GK 776 10/1K
4	33000 Ω	GK 776 10/33K	25	0.1 MΩ	GK 776 10/100K
5	33000 Ω	GK 777 10/33K	26	0.1 MΩ	GK 776 10/100K
6	27000 Ω	GK 777 10/27K	27	1.8+0.2 MΩ	GK 809 26
7	560 Ω	GK 777 10/560E	28	220 Ω	GK 776 10/220E
8	330 Ω	GK 776 10/330E	29	10 MΩ	GK 776 10/10M
9	0.47 MΩ	GK 776 10/470K	30	0.1 MΩ	GK 776 10/100K
10	1000 Ω	GK 776 10/1K	31	0.22 MΩ	GK 776 10/220K
11	0.1 MΩ	GK 776 10/100K	32	1.5 MΩ	GK 776 10/1M5
12	10 MΩ	GK 776 10/10M	33	1 MΩ	GK 776 10/1M
13	10 MΩ	GK 776 10/10M	34	0.68 MΩ	GK 776 10/680K
14	0.22 MΩ	GK 776 10/220K	35	1000 Ω	GK 776 10/1K
15	0.1 MΩ	GK 776 10/100K	36	150 Ω	GK 776 10/150E
16	0.1 MΩ	GK 776 10/100K	37		
17	0.33 MΩ	GK 776 10/330K	38	0.1 MΩ	GK 809 28
18	0.1 MΩ	GK 776 10/100K	39	3300 Ω	GK 776 10/3K3
19	2.2 MΩ	GK 776 10/2M2	40	3300 Ω	GK 776 10/3K3
20	0.1 MΩ	GK 776 10/100K	41	220 Ω	GK 776 10/220E
21	0.27 MΩ	GK 776 10/270K			

Range	Frequency	Position of cond.	Connection	Sequence of adjusting	
I.F.	452 kc/s	517.5° MW	via 22000 pF on $g_1 B_1$	Adjust I.F.I damped S26/S25-S24/S23	
I.F.filter	452 kc/s	517.5° MW	via 22000 pF to switch A11	S20-S21-S20	
KY 5476					
S.W. I	13 Mc/s 24 Mc/s	445.5° 92°	via artificial aerial	osc. circ.	aer. circ.
				S51 C28	S42 C 4
S.W.II	6.5 Mc/s 12 Mc/s	380° 62.5°	ditto	S53 C31	S44 C 7
S.W.III	1.8 Mc/s 5.5 Mc/s	482° 65°	ditto	S55 C29	S46 C 5
M.W.	550 kc/s 1500 kc/s	470° 75.5°	ditto	S57 C30	S48 C 6
KY 5477					
S.W. I	6.2 Mc/s 19 Mc/s	471° 81°	ditto	S11 C28	S 2 C 4
S.W.II	1.8 Mc/s 5.5 Mc/s	482° 65°	ditto	S13 C29	S 4 C 5
M.W.	550 kc/s 1500 kc/s	470° 75.5°	ditto	S15 C30	S 6 C 6
L.W.	160 kc/s 330 kc/s	450° 60°	ditto	S17 C31	S 8 C 7

C o i l s   a n d   T r a n s f o r m e r s

S 1	30 W	1.7 Ω	aer.coil SW I	S32	620 W	16 Ω	supply
2	11 W	<1 Ω	GK 568 08	33	107 W	2.6 Ω	transf.
3	161.5 W	11 Ω	aer.coil SW II	34	143 W	3.3 Ω	GK 514 08
4	38 W	<1 Ω	GK 568 10	35	300 W	11.5 Ω	
5	11.5 W	<1 Ω	aer.coil MW	36	120 W	4.5 Ω	
6	103 W	2.1 Ω	GK 568 19	37	190 W	6.4 Ω	
7	11.5 W	<1 Ω	aer.coil LW	38	1550 W	180 Ω	
8	314 W	20 Ω	GK 567 90	39	1550 W	195 Ω	
9	27 W	1.7 Ω	osc.coil SW I	40	42 W	<1 Ω	
10	5 W	<1 Ω	GK 568 12	41	30 W	1 Ω	aer.coil
11	11 W	<1 Ω		42	9 W	1 Ω	SW I
12	8 W	<1 Ω	osc.coil SW III	43	31 W	1.8 Ω	GK 568 07
13	27 W	1.7 Ω	GK 568 14	44	20 W	1 Ω	aer.coil
14	21 W	1.5 Ω	osc.coil MW				SW II
15	90 W	5.5 Ω	GK 568 15	45	161.5 W	11 Ω	GK 568 09
16	33 W	2 Ω	osc.coil LW	46	38 W	1 Ω	aer.coil
17	193 W	13.5 Ω	GK 568 22				SW III
18	4 W	1 Ω	Wilst osc.coil	47	11.5 W	1 Ω	GK 568 10
19	4 W	1 Ω	GK 568 06	48	98 W	1 Ω	aer.coil
20	196 W	9 Ω	IF filter				MW
21	802 W	55 Ω	A3 126 85	49	15 W	1 Ω	GK 568 02
22	645 W	0.5 Ω	Hum filter	50	4 W	1 Ω	osc.coil
			coil	51	6 W	1 Ω	SW I
			GK 567 79	52	5 W	1 Ω	GK 568 11
23	260 W	7.4 Ω	IF transf.	53	11 W	1 Ω	osc.coil
24	175 W	4.5 Ω	GK 567 95				SW II
25	260 W	7.4 Ω	IF transf. II	54	8 W	1 Ω	GK 568 13
26	175 W	4.5 Ω	GK 567 95	55	27 W	1.7 Ω	osc.coil
27	2400 W	610 Ω	output transf.				SW III
28	70 W	18 Ω	GK 513 83	56	21 W	1.5 Ω	GK 568 14
29	80 W	1 Ω		57	90 W	5.5 Ω	osc.coil
30	8 W	<1 Ω					MW
31	160 W	39 Ω					GK 568 15

KY 5476

L 1 Loudspeaker LS 21 12 11T  
 L 2 Loudspeaker LS 13 09 06T  
 L 3 Loudspeaker LS 13 09 06T

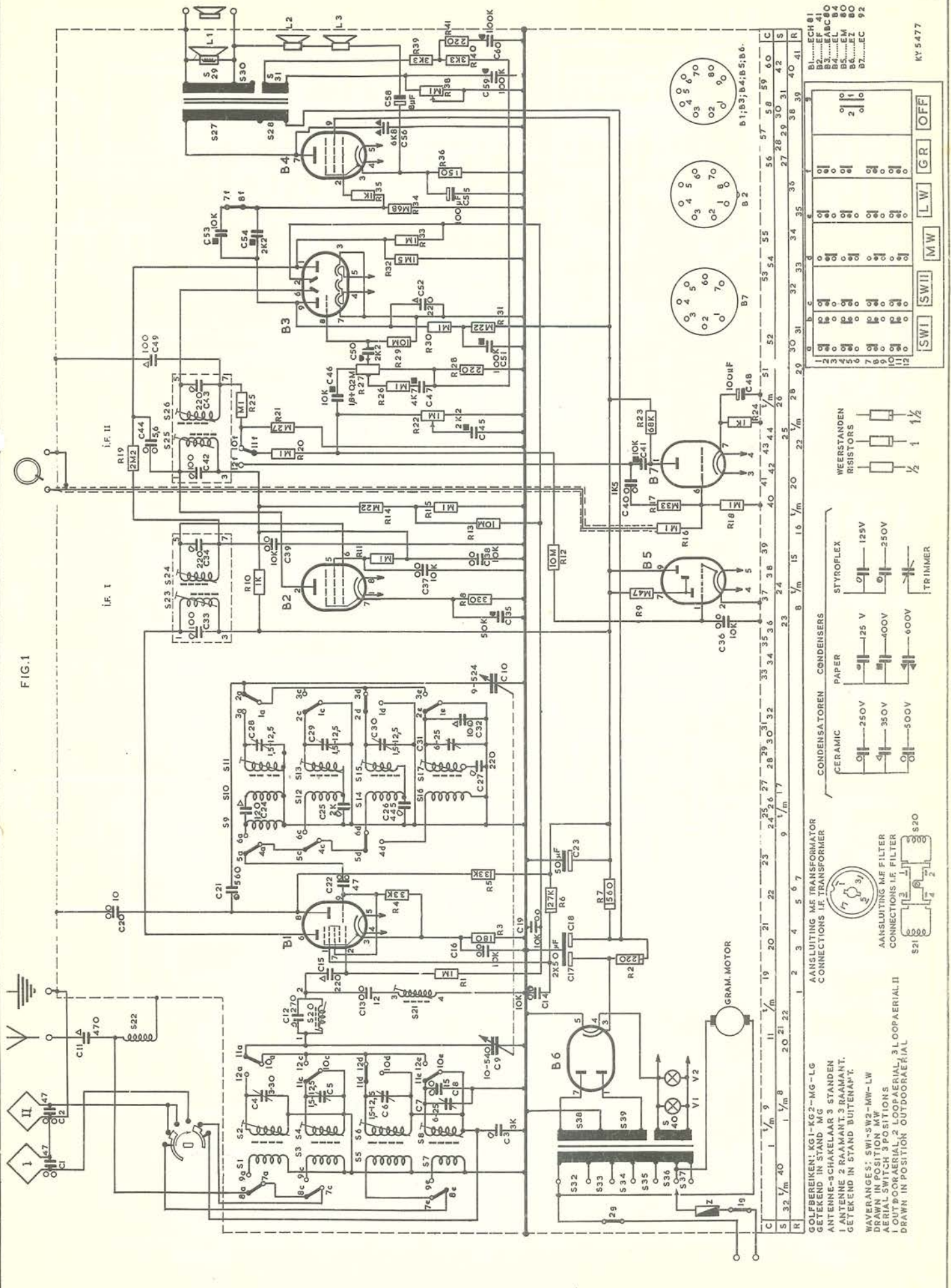
V 1) Dial lamps 8045D  
 V 2)

KY 5477

L 1 Loudspeaker LS 21 12 11  
 L 2 Loudspeaker LS 13 09 06  
 L 3 Loudspeaker LS 13 09 06

V 1) Dial lamps 8045D  
 V 2)

FIG. 1

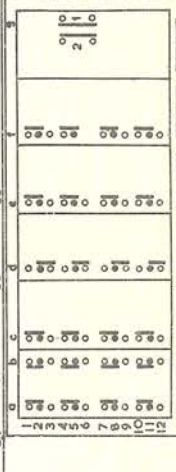
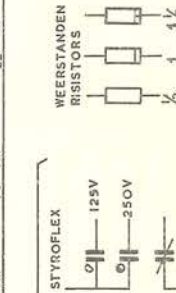


GOLFBREKERS: KGI-KG2-MG-LG  
 GETYKEND IN STAND MG  
 ANTENNE-SCHAKELAAR 3 STANDEN  
 1 ANTENNE 2 RAAMANT. 3 RAAMANT.  
 GETYKEND IN STAND BUITENANT.  
 WYVERANGES: SWI-SW2-MW-LW  
 DRAWN IN POSITION MW  
 AERIAL SWITCH 3 POSITIONS  
 1 OUTDOOR AERIAL, 2 LOOP AERIAL, 3 LOOP AERIAL II  
 DRAWN IN POSITION OUTDOOR AERIAL

AANSLUITING ME TRANSFORMATOR  
 CONNECTIONS LE TRANSFORMER



CONDENSATOREN CONDENSERS  
 CERAMIC  
 PAPER  
 STYROFLEX  
 WEERSTANDEN RESISTORS  
 TRIMMER



B1.....ECH 81  
 B2.....ECH 40  
 B3.....ECH 40  
 B4.....ECH 80  
 B5.....EM 80  
 B6.....EJ 80  
 B7.....EC 92



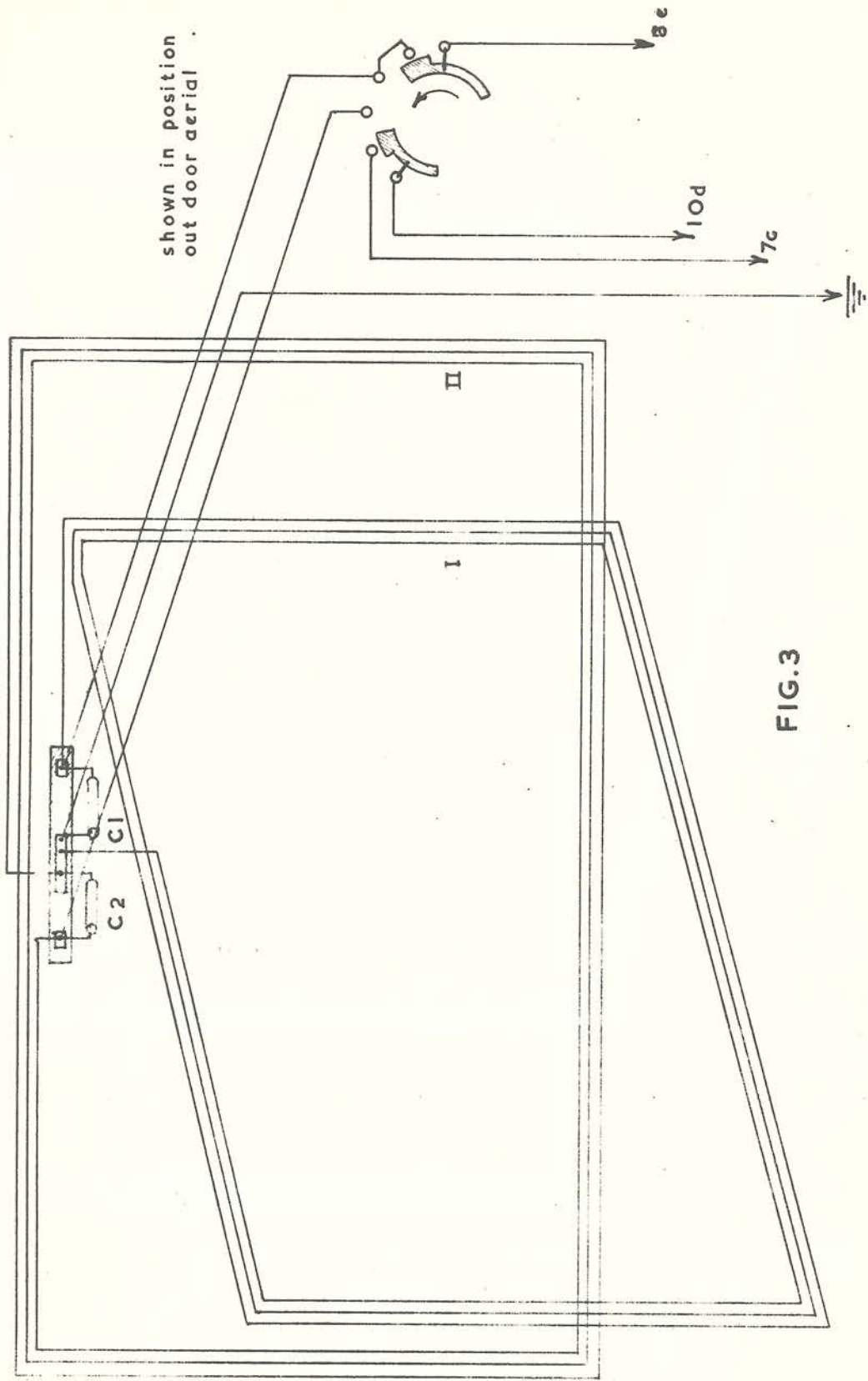
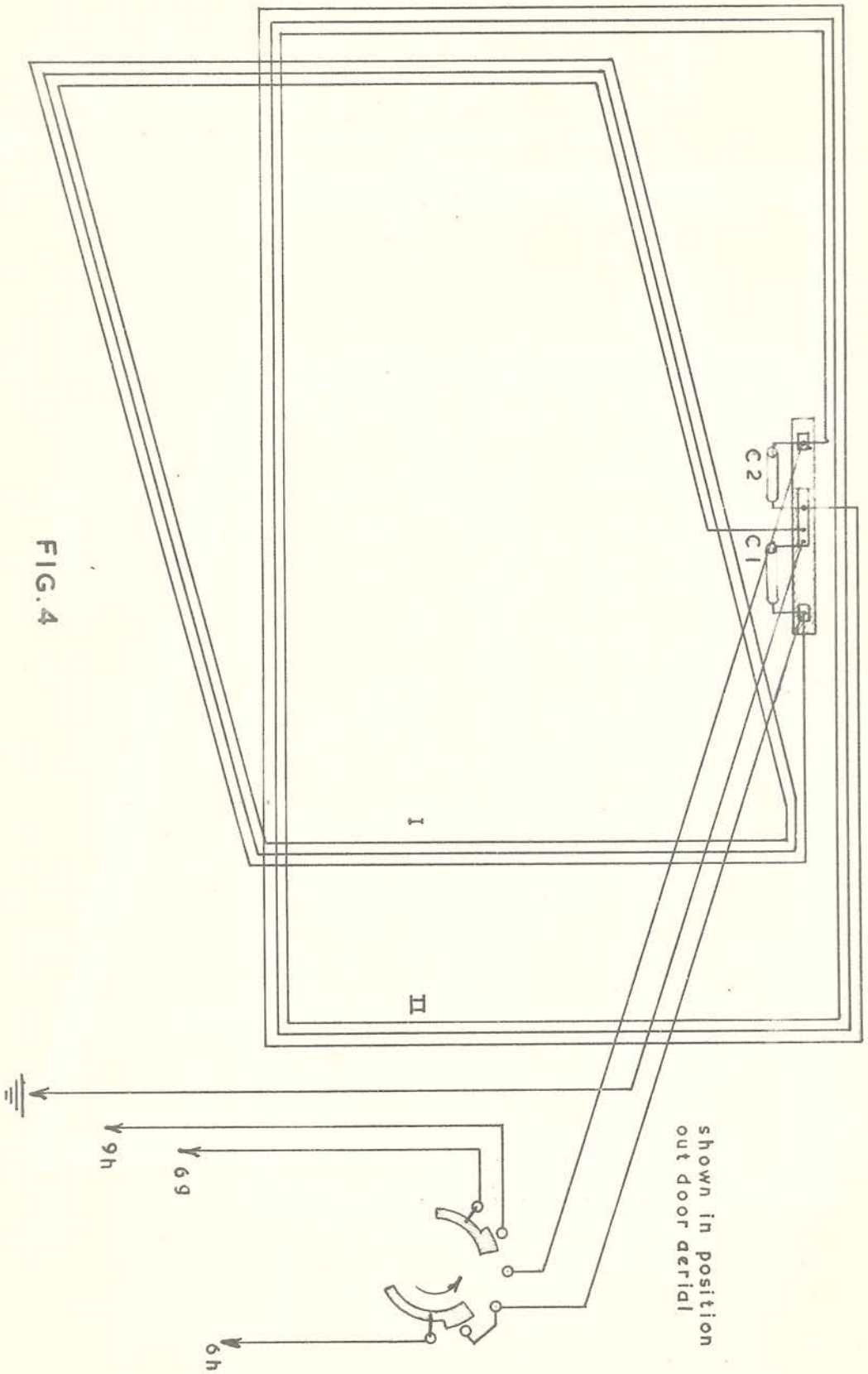
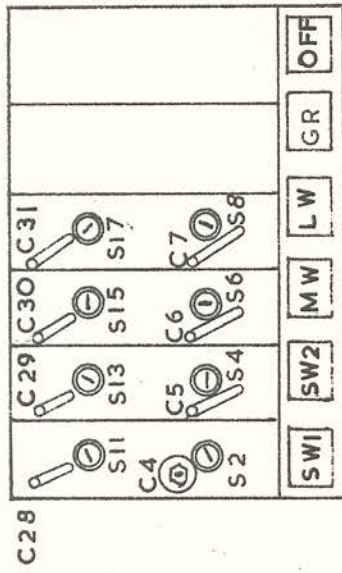
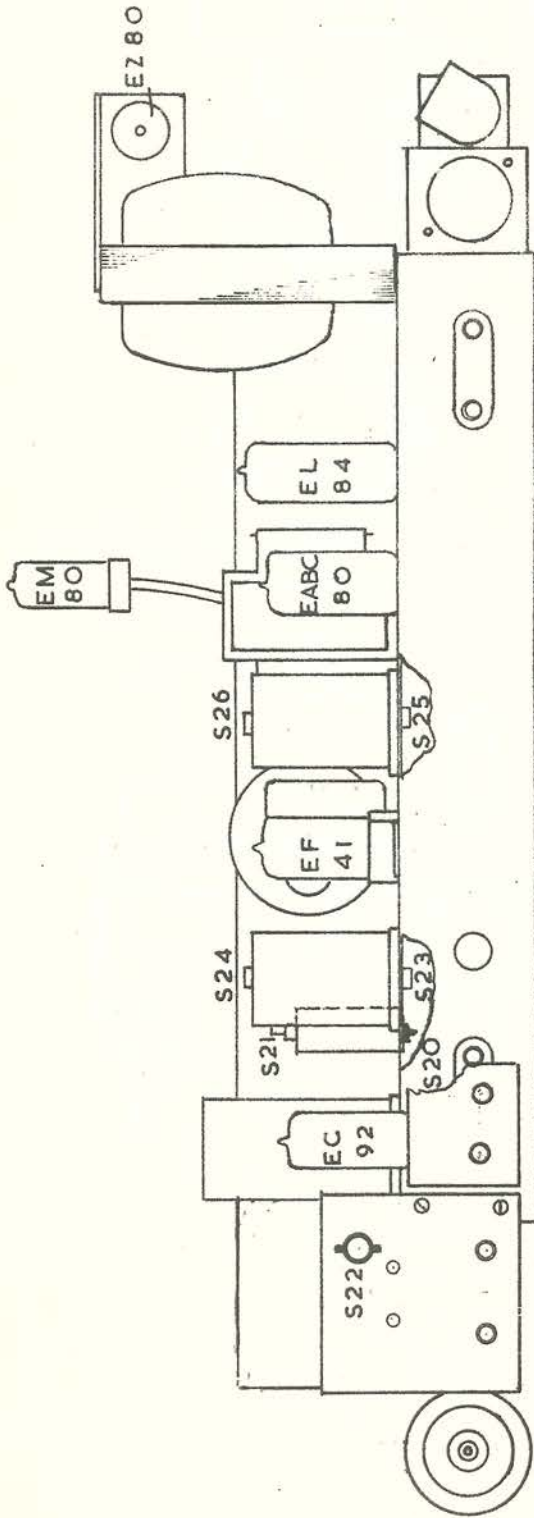


FIG.3

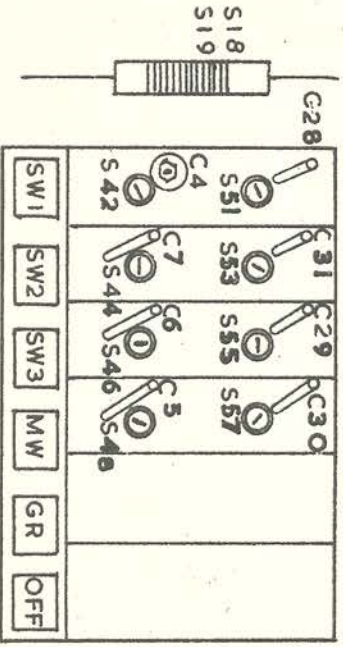
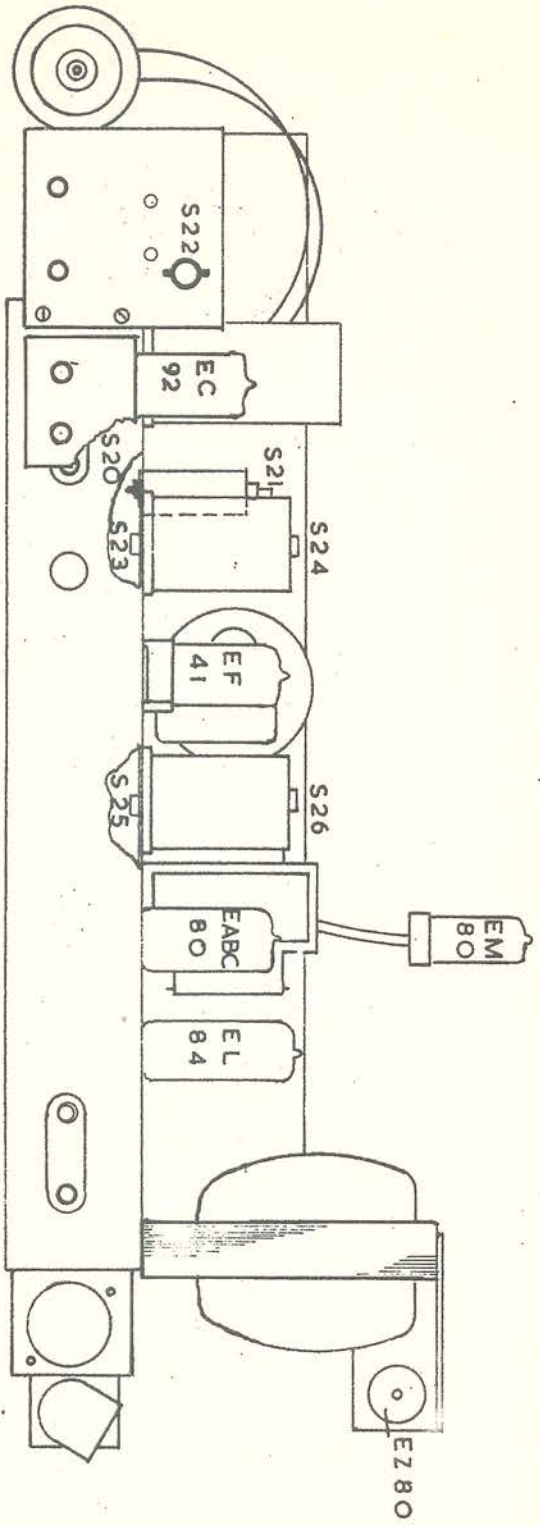






ADJUST DIAGRAM

FIG. 5



ADJUST DIAGRAM

FIG. 6

FIG. 7

A = 540mm =  $21 \frac{1}{4}$ "  
B = 770mm =  $30 \frac{5}{16}$ "

Variable condenser in position  
of maximum capacity

2 Voudige condensator geheel ingedraad

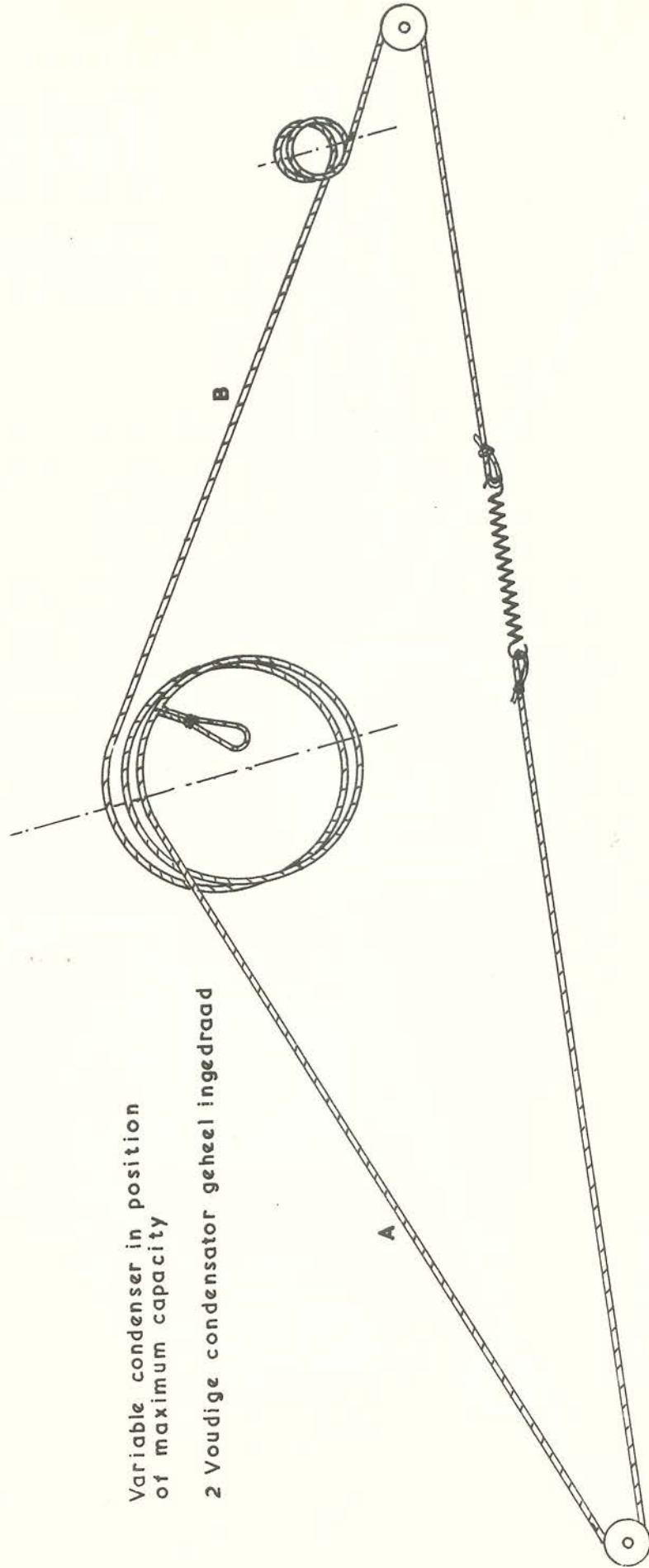


FIG. 8

- A = 140mm = 5 1/2 "
- B = 195 mm = 7 11/16 "
- C = 666 mm = 26 3/16 "
- D = 90mm = 3 1/2 "
- E = 225mm = 8 7/8 "
- F = 540mm = 21 1/4 "
- G = 770mm = 30 5/8 "

Variable condenser in position  
of maximum capacity

2 Voudige condensator geheel ingedraad

