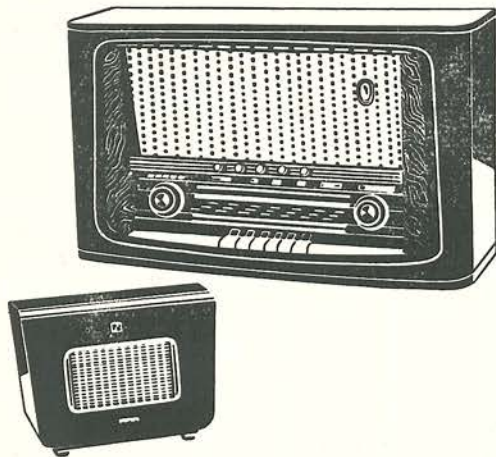


SERVICE-DOCUMENTATIE



KY 568/01

Ontvangtoestel voor wisselstroom



I. A L G E M E N E G E G E V E N S

- a. Golfbereiken: Frequentie modulatie 101 - 86 Mc/s
Korte golf 15.5 - 52 m
Midden golf 186 - 580 m
Lange golf 1000 - 2000 m
- b. Buizen: B 1 ECC 85 B 6 EL 84
 B 2 ECH 81 B 7 EL 84
 B 3 EF 89 B 8 EM 80
 B 4 EABC 80 B 9 EZ 80
 B 5 ECC 83
- c. Kringen: Afgestemde AM kringen: 7
 Afgestemde FM kringen: 9
- d. Middenfrequentie; Nominaal AM: 453 kc/s
 Nominaal FM: 10.7 Mc/s
- e. Gevoeligheid: Beter dan 10 μ V op AM MG
 Beter dan 3 μ V op FM
- f. Uitgangsvermogen: 6.5 W bij 10% vervorming gemeten bij 400 p/s
- g. Selectiviteit: 453 kc/s bij 10voudige verzwakking 10 kc/s
- h. Netspanningen: Omschakelaar voor netspanningen van
 110V, 125V, 150V, 200V, 220V en 250V.
- i. Bedieningsorganen: Volumeregelaar + ferriet antenne
 Toetsen voor netschakelaar, gram. en 4
 golfbereiken
 5 knopjes in het klankbord voor:
 lage toon; vocaal-concert; lokaal-select;
 stereo-plano; hoge toon
 Afstemming + bandspreiding KG en FM afstemming.
- j. Afmetingen kast: Breed 624 mm; hoog 388 mm; diep 224 mm.
- k. Gewicht: Bruto 20 kg.

II. SPANNINGEN EN STROMEN

| | B 1 ECC 85 | | B 2 ECH 81 | | B 3 EF 89 | | B 4 EABC 80 | | B 5 ECC 83 | | B 6 EL 84 | | B 7 EL 84 | | |
|------------|---------------|-----|---------------|-----|--------------|------|----------------|------|---------------|---------------|--------------|------|--------------|------|----|
| | AM | FM | AM | FM | AM | FM | AM | FM | AM | FM | AM | FM | AM | FM | |
| Va | 0 | 180 | 250 | 220 | 245 | 225 | | | | | 290 | 285 | 290 | 285 | V |
| Vg scherm. | | | 91 | 91 | 115 | 105 | | | | | 270 | 265 | 270 | 265 | V |
| Vg stuur. | | | | | | | | | | | | | | | V |
| Va triode | | 150 | 120 | 0 | | | 100 | 95 | 190/ 200 | 125/ 180 | | | | | V |
| Vk | | | -2 | -24 | 2.5 | 2.3 | | | 1.4/ 1.5 | 1.3/ 1.4 | 11.4 | 108 | 11.4 | 108 | V |
| Ia | 0 | 5.5 | 1.75 | 5.4 | 8.6 | 7.8 | | | | | 18 | 17 | 18 | 17 | mA |
| Ig scherm. | | | 4.1 | 3.9 | 2.9 | 2.7 | | | | | 2 | 1.9 | 2 | 1.9 | mA |
| Ig triode | | | | | | | | | | | | | | | μA |
| Ia triode | 0 | 10 | 4 | 0 | | | 1.2 | 1.05 | 0.3/ 0.86 | 0.28/ 0.78 | | | | | mA |
| Ik | | | 9.85 | 9.3 | 11.5 | 10.5 | | | | | 20 | 18.9 | 20 | 18.9 | mA |

$V_{C13}=290V$, $V_{C14}=280V$, $V_{C18}=230V$, $V_{C19}=195V$, $I_{tot.}=75$ mA FM.

$V_{C13}=295V$, $V_{C14}=290V$, $V_{C18}=260V$, $V_{C19}=215V$, $I_{tot.}=65$ mA AM.

III. TRIM VOORSCHRIFT AM

Meetzender: 30% moduleren met 400 Hz.

Wijzerinstelling: Var.condensator geheel indraaien.
Wijzer instellen op eind van de schaal
Draaiingshoek van de var.condensator: 540° .

Trimpunten: Deze zijn op de schaal aangegeven en wel op
 0° - 55° - 57.5° - 113.5° - 463° - 509° en 540° .

Afregeling: Volumeregelaar op maximum.
Toonregelaar op maximum hoog en maximum laag.
Bandbreedte schakelaar in stand select (smal).

| Bereik | Frequentie | Condensator-stand | Aansluiting meetzender | Afregelelen | |
|-----------|-------------------|-------------------|---------------------------|---|------------|
| MF | 453 kc | 540° MG | via 22000 pF op g, ECH 81 | MF II en MF III; S40, S51, S50 MF I S34, S33 MF I gedempt afregelelen | |
| MF filter | 453 kc | 540° MG | via 22000 pF op schak.8c | S101-S102-S101 op min.output | |
| MG | 570 kc 1500 kc | 463° 57.5° | via dummy antenne | ant. kring | osc. kring |
| | | | | S 4 C 4 | S14 C25 |
| LG | 160 kc 280 kc | 463° 113.5° | idem | S8/S9 | S16 |
| | | | | C 6 | C24 |
| KG | 6 Mc 18 Mc | 509° 55° | idem | S 2 | S12 |
| | | | | C 3 | C23 |

Bij het trimmen van het KG bereik moet de bandspreiding in het midden ingesteld worden.

Trimvolgorde: MF-AM, HF-AM, MF-FM, HF-FM.

III. T R I M V O O R S C H R I F T F M

MF = 10.700 kc ± 50 kc.

1. MF II trimmen:

- Meetzender 10.7 Mc ongemoduleerd op g, EF 89.
Input 0.1 V.
- S45/S44 en S43 trimmen op maximum gelijkspanning.

Opletten:

S45/S44 geeft een flauw maximum.

Deze gelijkspanning (4 à 5V) over R27 gebruiken als indicatie voor de volgende afregelingen.

2. MF I trimmen:

- Meetzender 10.7 Mc ongemoduleerd op g, ECH 81.
- S31 en S32 trimmen op maximum gelijkspanning.
(Verstemd met 22 pF trimmen).

3. MF unit natrimmen:

- Meetzender 10.7 Mc capacitief koppelen met de oscillator anode van de ECC 85.
- S27/S28 en S29 trimmen op maximum gelijkspanning.
- Afstemcurve moet symetrisch zijn. Maximum afwijking in verzwakking op ± 100 kc: 15%.

Opmerking:

Dit capacitief koppelen kan gebeuren door een geïsoleerd plaatje tussen mengbuis en afscherming te steken. Hierop komt dan het MF signaal. Als aarde de afscherming gebruiken. Niet trimmen via de antenne bussen.

4. Wijzerinstelling FM:

- Apparaat afstemmen op 93 Mc.
- Wijzer instellen op 93 Mc trimpunt op de schaal.

C o n d e n s a t o r e n

| | | | | | |
|-----|------------|---------------|-----|----------|---------------|
| C 1 | 680 pF | E 110 50/680E | C44 | 10 pF | E 101 10/10E |
| 2 | 220 pF | E 103 10/220E | 45 | 100 pF | E 360 02/100E |
| 3 | 3-30 pF | 7864/01 | 46 | 100 pF | E 360 02/100E |
| 4 | 2-12 pF | AC 2002/12 | 47 | 390 pF | E 103 10/390E |
| 5 | 47 pF | E 103 10/47E | 48 | 22000 pF | E 241 10/22K |
| 6 | 10-50 pF | 82754/50 | 49 | 47000 pF | E 200 10/47K |
| 7 | 15 pF | E 101 05/15E | 50 | 3300 pF | E 242 10/3K3 |
| 8 | 12-512 pF) | GK 210 61-4 | 51 | 3 μF | GK 180 41 |
| 9 | 15-455 pF) | | 52 | 10000 pF | E 112 50/10K |
| 10 | 220 pF | E 103 10/220E | 53 | 150 pF | E 103 10/150E |
| 11 | 270 pF | E 350 05/270E | 54 | 22000 pF | E 240 10/22K |
| 12 | 12 pF | E 101 10/12E | 55 | 47000 pF | E 200 10/47K |
| 13 | 50 μF) | GK 180 12 | 56 | 22000 pF | E 201 10/22K |
| 14 | 50 μF) | | 57 | 220 pF | E 103 10/220E |
| 15 | 10000 pF | E 112 50/10K | 58 | 1000 pF | E 242 10/1K |
| 16 | 10000 pF | E 112 50/10K | 59 | 3300 pF | E 242 10/3K3 |
| 17 | 47 pF | E 103 10/47E | 60 | 220 pF | E 351 02/220E |
| 18 | 25 μF) | AC 6008/25+25 | 61 | 430 pF | E 360 02/430E |
| 19 | 25 μF) | | 62 | 1000 pF | E 242 10/1K |
| 20 | 120 pF | E 103 10/120E | 63 | 1000 pF | E 242 10/1K |
| 21 | 170 pF | E 350 02/170E | 64 | 100 pF | E 103 10/100E |
| 22 | 408 pF | E 350 01/408E | 65 | 10000 pF | E 200 10/10K |
| 23 | 6-25 pF | 82754/25E | 66 | 100 μF | GK 180 39 |
| 24 | 10-50 pF | 82754/50E | 67 | 22000 pF | E 201 10/22K |
| 25 | 6-25 pF | 82754/25E | 68 | 47000 pF | E 200 10/47K |
| 26 | 120 pF | E 103 10/120E | 69 | 6800 pF | E 201 10/6K8 |
| 27 | 10000 pF | E 112 50/10K | 70 | 0.1 μF | E 200 10/100K |
| 28 | 820 pF | E 154 00/820E | 71 | 100 μF | GK 180 39 |
| 29 | 820 pF | E 154 00/820E | 72 | 2200 pF | E 202 10/2K2 |
| 30 | 10 pF | E 101 10/10E | 73 | 8 μF | AC 5123/8 |
| 31 | 10000 pF | E 112 50/10K | 74 | 100 μF | GK 180 39 |
| 32 | 10 pF | E 101 10/10E | 75 | 100 μF | GK 180 39 |
| 33 | 10 pF | E 101 10/10E | 76 | 15 pF | E 101 05/15E |
| 34 | 150 pF | E 351 02/150E | 77 | 820 pF | E 154 02/820E |
| 35 | 220 pF | E 351 02/220E | 78 | 27 pF | E 172 02/27E |
| 36 | 220 pF | E 103 10/220E | 79 | 2-6 pF | GK 210 53 |
| 37 | 10000 pF | E 112 50/10K | 80 | 8.2 pF | E 128 05/8E2 |
| 38 | 10000 pF | E 112 50/10K | 81 | 100 pF | E 103 02/100E |
| 39 | 47000 pF | E 220 20/47K | 82 | 2.2 pF | E 164 20/2E2 |
| 40 | 100 pF | E 103 10/100E | 83 | 15 pF | E 172 05/15E |
| 41 | 6800 pF | E 201 10/6K8 | 84 | 15 pF | E 172 05/15E |
| 42 | 3300 pF | E 242 10/3K3 | 85 | 820 pF | E 154 00/820E |
| 43 | 220 pF | E 360 02/220E | 86 | 2-6 pF | GK 210 53 |

W e e r s t a n d e n

| | | | | | |
|-----|---------|---------------------------------|-----|---------|-------------------------|
| R 1 | 1 MΩ | GK 776 10/1M | R35 | 0.1 MΩ | GK 776 10/100K |
| 2 | 33000 Ω | GK 777 10/33K | 36 | 2.2 MΩ | GK 776 10/2M2 |
| 3 | 220 Ω | GK 790 50/220E | 37 | 0.15 MΩ | GK 776 10/150K |
| 4 | 180 Ω | GK 776 10/180E | 38 | 2 MΩ | GK 809 71 potm. preh |
| 5 | 47000 Ω | GK 776 10/47K | 39 | 47000 Ω | GK 776 10/47K |
| 6 | 22 Ω | GK 776 10/22E | 40 | 47000 Ω | GK 776 10/47K |
| 7 | 1200 Ω | 5497A/1K2 | 41 | 0.1 MΩ | GK 776 10/100K |
| 8 | 3300 Ω | GK 777 10/3K3 | 42 | 47000 Ω | GK 776 10/47K |
| 9 | 18000 Ω | GK 776 10/18K | 43 | 0.22 MΩ | GK 776 10/220K |
| 10 | 33000 Ω | GK 777 10/33K | 44 | 0.15 MΩ | GK 776 10/150K |
| 11 | 8200 Ω | GK 777 10/8K2 | 45 | 0.1 MΩ | GK 776 10/100K |
| 12 | 10000 Ω | GK 776 10/10K | 46 | 3.3 MΩ | GK 776 10/3M3 |
| 13 | 1000 Ω | GK 776 10/1K | 47 | 82000 Ω | GK 776 10/82K |
| 14 | 10000 Ω | GK 776 10/10K | 48 | 1 MΩ | GK 776 10/1M |
| 15 | 0.1 MΩ | GK 776 10/100K | 49 | 3900 Ω | GK 776 10/3K9 |
| 16 | 0.1 MΩ | GK 776 10/100K | 50 | 1800 Ω | GK 776 10/1K8 |
| 17 | 150 Ω | GK 776 10/150E | 51 | 270 Ω | GK 776 10/270E |
| 18 | 0.1 MΩ | GK 776 10/100K | 52 | 0.22 MΩ | GK 776 10/220K |
| 19 | 47000 Ω | GK 777 10/47K | 53 | 18000 Ω | GK 776 10/18K |
| 20 | 1000 Ω | GK 776 10/1K | 54 | 15000 Ω | GK 776 10/15K |
| 21 | 47 Ω | GK 776 10/47E | 55 | 1 MΩ | GK 776 10/1M |
| 22 | 0.15 MΩ | GK 776 10/150K | 56 | 1 MΩ | GK 776 10/1M |
| 23 | 10 MΩ | GK 776 10/10M | 57 | 1000 Ω | GK 776 10/1K |
| 24 | 0.47 MΩ | GK 776 10/470K | 58 | 0.68 MΩ | GK 776 10/680K |
| 25 | 10000 Ω | GK 776 10/10K | 59 | 0.68 MΩ | GK 776 10/680K |
| 26 | 0.1 MΩ | GK 776 10/100K | 60 | 1000 Ω | GK 776 10/1K |
| 27 | 33000 Ω | GK 776 10/33K | 61 | 270 Ω | GK 777 10/270E |
| 28 | 1.3 MΩ | GK 809 64 koolpotm. pos.log. | 62 | 4700 Ω | GK 776 10/4K7 |
| 29 | 22000 Ω | GK 776 10/22K | 63 | 10000 Ω | GK 776 10/10K |
| 30 | 10 MΩ | GK 776 10/10M | 64 | 22 Ω | GK 777 10/22E |
| 31 | 68000 Ω | GK 798 10/68K | 65 | 0.27 MΩ | GK 776 10/270K |
| 32 | 0.1 MΩ | GK 798 10/100K | 66 | 100 Ω | GK 776 10/100E |
| 33 | 1 MΩ | GK 776 10/1M | 67 | 0.47 MΩ | GK 776 10/470K |
| 34 | 1 MΩ | GK 809 67 koolpotm. neg.log. | | | |

Z = temperatuur zekering 08 100 99

L1) verlichtingslampje 8045D
L2)

LS1 luidspreker L21 12 11

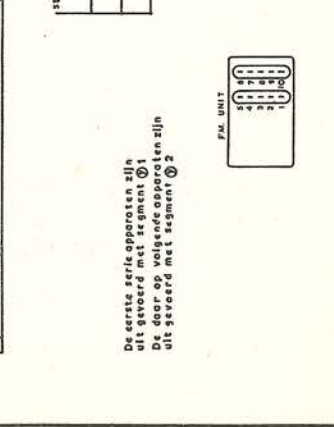
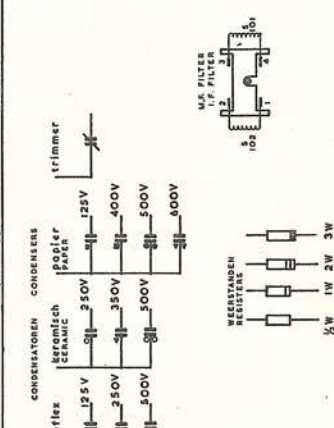
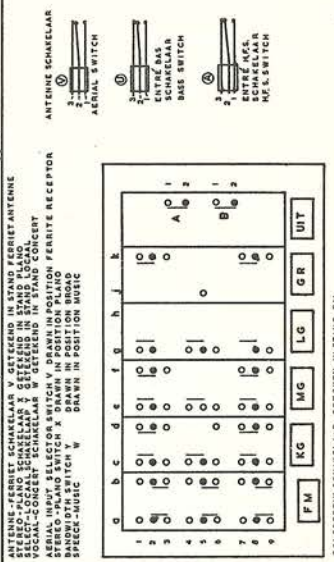
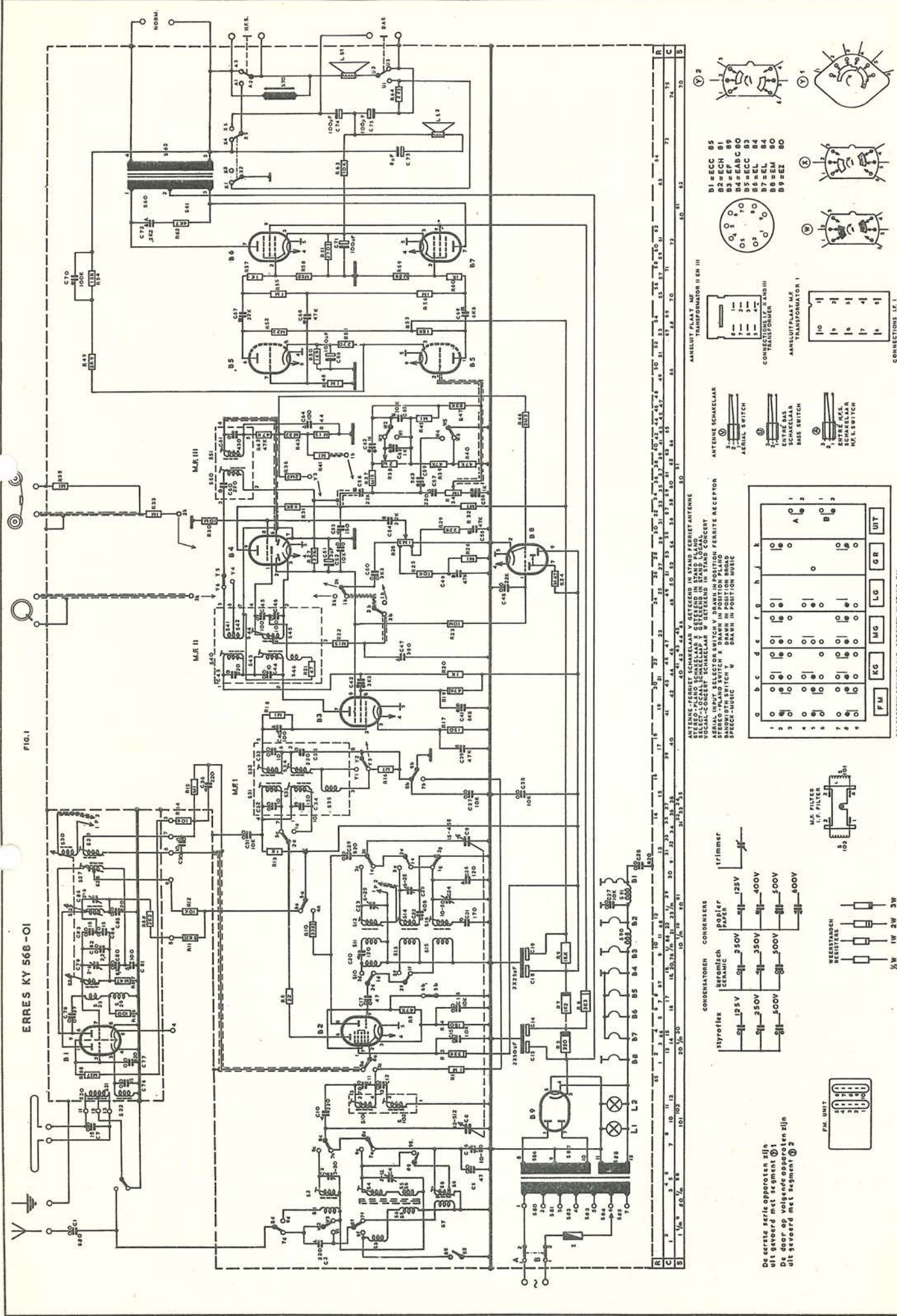
LS2 luidspreker AD 2400Z

S p o e l e n e n t r a n s f o r m a t o r e n

| | | | | | | | |
|-----|--------|-------|----------------------------|-----|--------|-------|----------------|
| S 1 | 34 W | 1.7 Ω | ant.spoel KG | S40 | 204 W | 4.2 Ω | MF II transf. |
| 2 | 12 W | < 1 Ω | GK 569 12 | 41 | 3 W | < 1 Ω | GK 569 04-10 |
| 3 | 530 W | | ant.serie spoel MG | 42 | 2 W | < 1 Ω | |
| | | | GK 569 03 | 43 | 31 W | < 1 Ω | |
| 4 | 15 W | < 1 Ω | ferriet ant. spoel 1 MG | 44 | 9 W | < 1 Ω | |
| | | | GK 569 08 | 45 | 9 W | < 1 Ω | |
| 5 | 41 W | < 1 Ω | ferriet ant. | 46 | 5 W | < 1 Ω | |
| 6 | 43 W | < 1 Ω | spoel 2 MG | 50 | 204 W | 4.2 Ω | MF III transf. |
| | | | GK 569 07 | 51 | 141 W | 2.7 Ω | GK 569 06-9 |
| 7 | 1190 W | | ant.spoel LG | 60 | 1925 W | 310 Ω | uitgangstrans- |
| 8 | 380 W | | GK 569 11 | 61 | 1925 W | 366 Ω | formator |
| 9 | 65 W | | | 62 | 85 W | < 1 Ω | GK 514 82 |
| 10 | 37 W | | osc.spoel KG | | 85 W | < 1 Ω | |
| 11 | 7 W | | GK 569 26 | 70 | 85 W | < 1 Ω | toonwissel- |
| 12 | 10 W | | | | 85 W | < 1 Ω | spoel |
| 13 | 21 W | | osc.spoel MG | | | | GK 515 01 |
| 14 | 90 W | | GK 568 15 | 80 | 415 W | 8.9 Ω | voedings- |
| 15 | 35 W | | osc.spoel LG | 81 | 58 W | 1.2 Ω | transf. |
| 16 | 220 W | | GK 568 22 | 82 | 94 W | 4.2 Ω | GK 514 86 |
| 20 | 2 W | < 1 Ω | ant.bandfilter- | 83 | 195 W | 8.7 Ω | |
| 21 | 2 W | < 1 Ω | spoel | 84 | 78 W | 3.5 Ω | |
| 22 | 3 W | < 1 Ω | GK 567 48 | 85 | 121 W | 5.3 Ω | |
| 23 | 1 W | < 1 Ω | terugkoppel- | 86 | 1080 W | 110 Ω | |
| | | | spoel | 87 | 1080 W | 118 Ω | |
| 24 | 5.5 W | < 1 Ω | osc.spoel | 88 | 28 W | < 1 Ω | |
| | | | GK 567 49-2 | 90 | 30 W | < 1 Ω | gloeidraad- |
| 25 | 5.5 W | < 1 Ω | osc.spoel | | | | smoerspoel |
| | | | GK 567 50 | 91 | 17 W | < 1 Ω | GK 550 63 |
| 26 | 4 W | < 1 Ω | anode serie | | | | gloeidraad- |
| | | | spoel | | | | smoerspoel |
| | | | GK 550 64 | 101 | 196 W | 9 Ω | FM filterspoel |
| 27 | 18 W | < 1 Ω | MF FM transf. | 102 | 802 W | 55 Ω | A3 126 85 |
| 28 | 7 W | < 1 Ω | GK 567 47 | | | | |
| 29 | 25 W | < 1 Ω | | | | | |
| 30 | 9 W | < 1 Ω | piloot KG | | | | |
| | | | spoel | | | | |
| | | | GK 567 49-2 | | | | |
| 31 | 35 W | 1 Ω | MF I transf. | | | | |
| 32 | 35 W | 1 Ω | GK 569 09 | | | | |
| 33 | 259 W | 6.9 Ω | | | | | |
| 34 | 215 W | 5.4 Ω | | | | | |
| 35 | 2 W | < 1 Ω | | | | | |

ERRES KY 568-OI

FIG. 1



CONDENSATOREN
 15µf 125V
 250V
 500V
 1000V

CONDENSATOREN
 CERAMIC
 PAPER
 250V
 350V
 500V
 1000V

TRIMMER

WEERSTANDEN
 1/2 W 1W 2W 3W

M.C. FILTER
 100Ω

FM UNIT

De eerste serie apparaten zijn uit gevoerd met segment ①
 De daar op volgende apparaten zijn uit gevoerd met segment ②

MECHANISME VAN DE FERRITE RECEPTOR
 STEREO-PLANSCHAKELAAR EN STEERING IN VARIOUS PLANS
 LOCAL-CONCERT SCHAKELAAR W. GETREK IN STAND CONCERT
 AERIAL INPUT SELECTOR SWITCH V. DRAWN IN POSITION FERRITE RECEPTOR
 BANDWIDTH SWITCH X. DRAWN IN POSITION BROAD
 SPEECH-MUSIC SWITCH W. DRAWN IN POSITION MUSIC

ANSLUIT PLEKST. M.P. TRANSFORMATOR II EN III
 ANSLUIT PLEKST. M.P. TRANSFORMATOR I
 CONNECTION POINTS OF TRANSFORMER II
 CONNECTION POINTS OF TRANSFORMER I

BI = ECC 85
 B2 = ECH 81
 B3 = 6AB6 80
 B4 = ECC 83
 B5 = ECC 83
 B6 = HEL 84
 B7 = HEL 84
 B8 = 6EM 80
 B9 = 6EZ 80

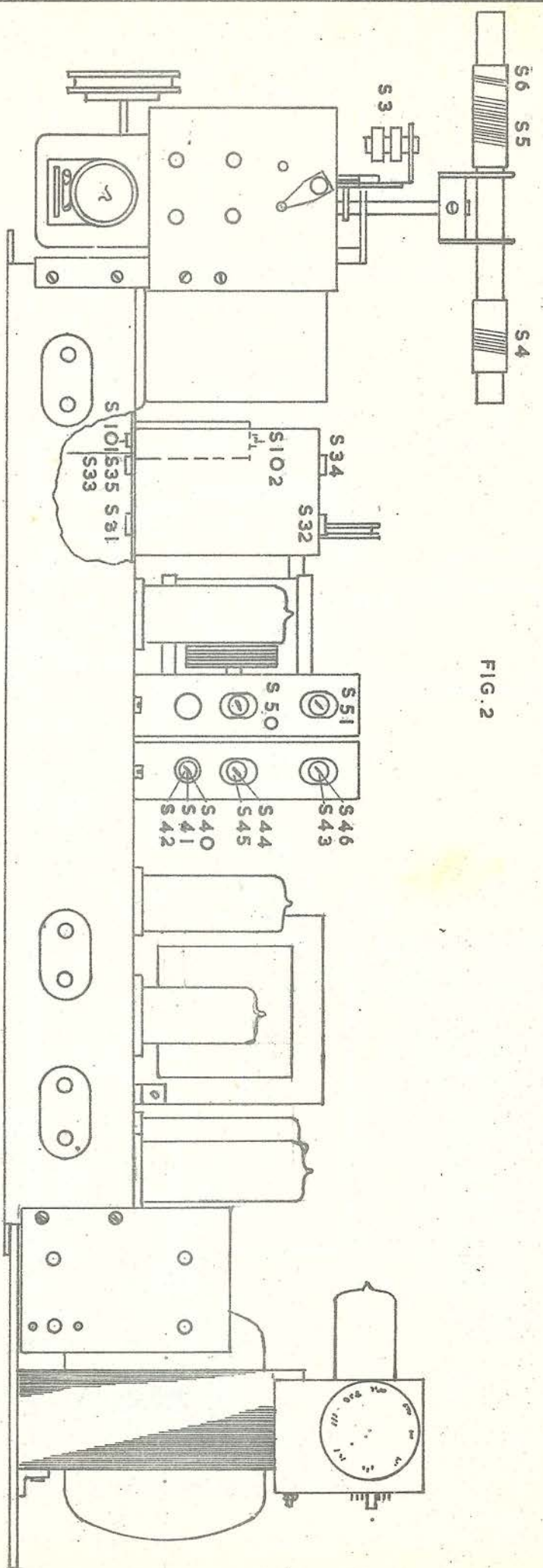
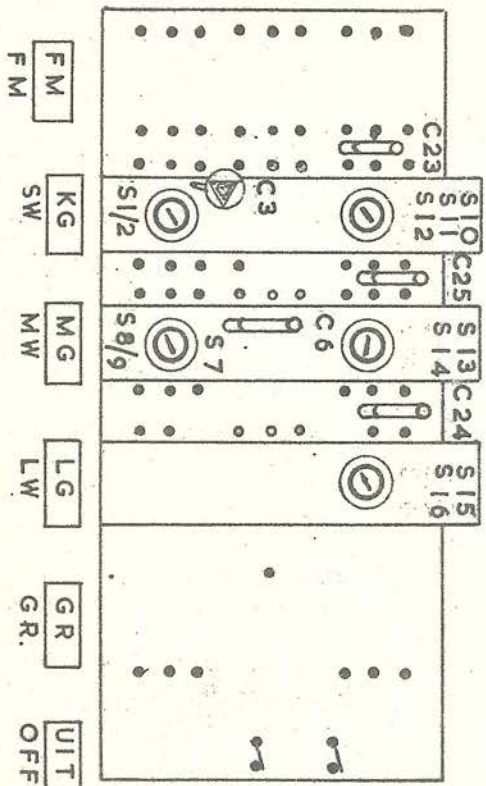
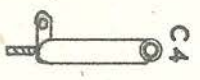
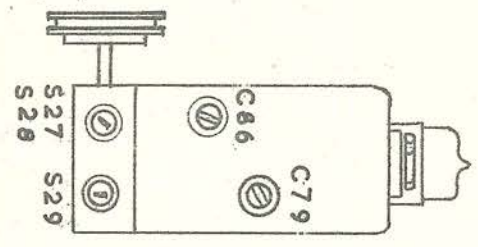


FIG. 2



Snaarlengten.
Length of cords:

- A= 570 mm; 22 $\frac{7}{16}$ "
- B= 1000 mm; 39 $\frac{3}{8}$ "
- C= 500 mm; 19 $\frac{1}{16}$ "
- D= 740 mm; 29 $\frac{1}{8}$ "
- E= 1245 mm; 49 "
- F= 320 mm; 12 $\frac{5}{8}$ "

FIG. 3

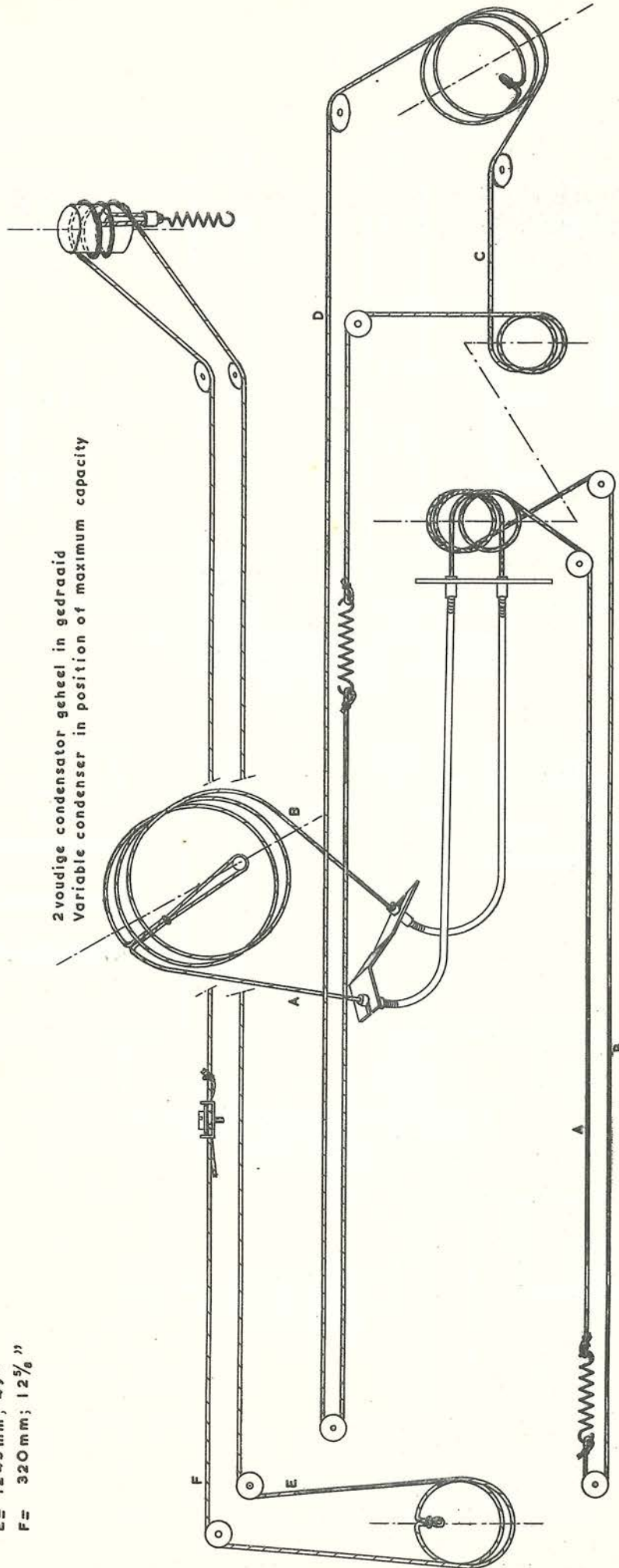
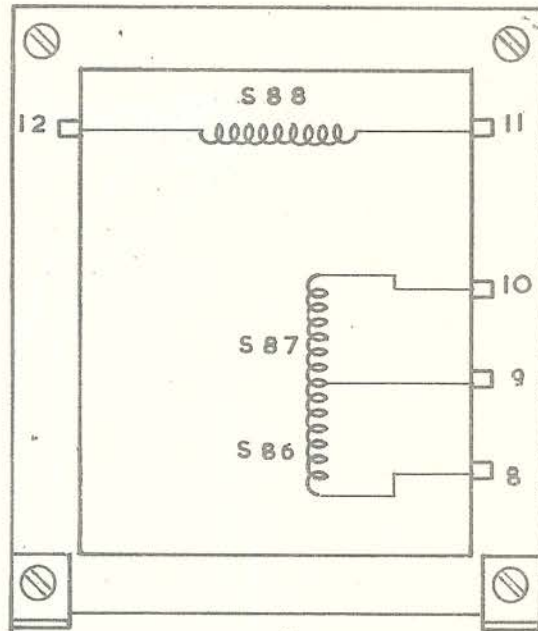
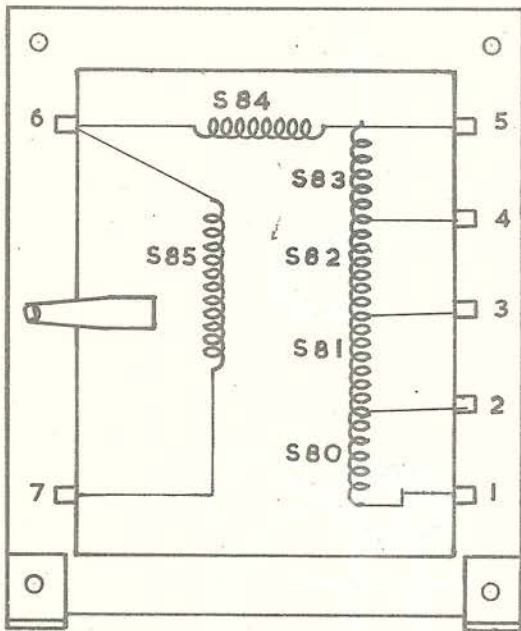
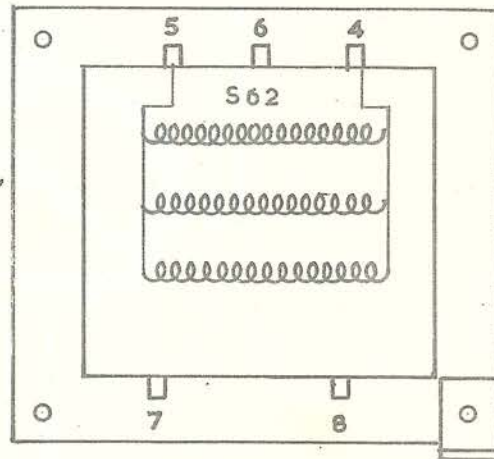
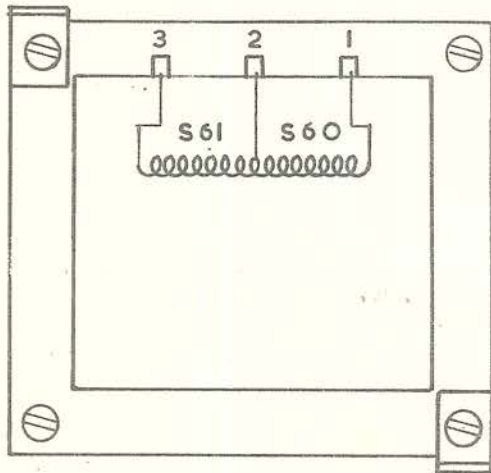


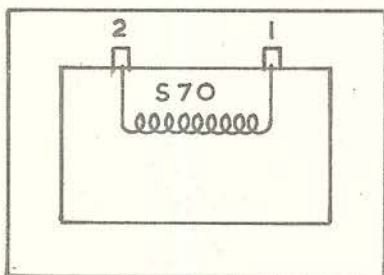
FIG. 4



VOEDINGS TRANSFORMATOR
SUPPLY TRANSFORMER
GK 514 86



UITGANGS TRANSFORMATOR
OUTPUT TRANSFORMER
GK 514 82



TOON WISSEL SPOEL
L. S. SELECTION COIL
GK 515 01

protected by law auteursrecht volgens de wet voorbehouden