

PHILIPS

SERVICE DOCUMENTATIE

voor de radiogrammofoon

F6X62A

1956 Voor voeding uit wisselstroomnetten

ALGEMEEN.

Knoppen

Van links naar rechts:

Lage tonen regelaar.

Volume-regelaar +

Antenne-afstemming.

Afstemming.

Hoge tonen regelaar.

Druktoetsen

Van links naar rechts:

Netschakelaar.

P.U. Schakelaar.

L.G. 870-2000m (345-150 kHz)

M.G. 186-576 m (1614-520kHz)

K.G. 16,5-50,5m (18,1-5,9MHz)

F.M. 3 - 3,43m (100-87,5MHz)

Buizen

B1-ECC85

B2-ECH81

B3-EF89

B4-EF85

B5-EABC80

B6-EL84

B7-EZ81

B8-EM8C

B9-EL84

B10-ECC83

M.F.

A.M. - 452 kHz

F.M. - 10,7MHz

Netspanningen

110-127-145-165-220-245 V.

Verbruik

Ca. 100 W (220 V)

Luidsprekers

AD 3700 M (Z=5 Ω)

9710 M (z=7 Ω)

Afmetingen

Breedte : 920 mm

Hoogte : 790 mm

Diepte : 385 mm

Schaalverlichtingslampjes

2 x 8024N/778

1 x 8045D/00

Platenwisselaar

AG 1003-75

HET AFREGELLEN VAN DE ONTVANGERA.M. gedeelte.

Bij het afregelen geldt algemeen:

Wisselspanningsmeter aansluiten op extra luidspreker aansluitingen.

Trimpunt 1 bevindt zich geheel links op de Stationsnamenschaal.

Trimpunt 2 bevindt zich even rechts van trimpunt 1.

Trimpunt 3 bevindt zich geheel rechts op de Stationsnamenschaal.

Bij minimale stand van de variabele condensator moet de wijzer zich op trimpunt 1 bevinden.

Kernen der M.F. bandfilters uitdraaien.

Indien niet anders aangegeven worden de signalen via een normale kunsttenne aan de antennebussen toegevoerd.

| | Golfbereik | Trimpunt | Signaal | Afregelen | Aanwijzing | |
|----------------------------|------------|----------|-------------------------------|---------------------------------|------------------------|----------|
| M.F. bandfilters | M.G. | 1 | 452 kHz via 33000 pF aan g1B2 | S33 S32 S28 S29 S32 | Max. uitgangsspanning. | |
| H.F. en oscillator kringen | M.G. | 3 | 550 kHz | S25 S6-S6a | Max. uitgangsspanning | herhalen |
| | | 2 | 1500kHz | C33 C10 | | |
| | L.G. | 3 | 158,5kHz | S10 S7-S7a * S8 | Max. uitgangsspanning. | herhalen |
| | | 2 | 340 kHz | C20 C21 | | |
| | K.G. | 3 | 6,38MHz | S23 S5 | Max. uitgangsspanning. | herhalen |
| | | 2 | 17,1MHz | C32 C9 | | |

M.F. zuig- en sperkringen.

Golfschakelaar op M.G.

Afstemcondensator maximum.

Kernen S11 en S12 uitdraaien.

1. Signaal van 452 kHz aan antennebus.
2. S11 trimmen op minimum uitgangsspanning.
3. Kern van S11 1/4 slag doordraaien.
4. S12 trimmen op minimum uitgangsspanning.
5. S11 natrijmen op minimum uitgangsspanning.

* Voor het afregelen van S7-7a de ferroceptor in middenstand zetten.
Het signaal via 30 pF toevoeren aan het punt C39-C67.

F.M. gedeelte

Afregelen met behulp van een A.M. service oscillator.

Algemeen

Diode voltmeter in serie met een weerstand van 0,1 M Ω over R23 aansluiten.

Volumeregelaar op maximum.

Hoge tonen regelaar op maximum hoog.

Lage tonen regelaar op maximum laag.

De toegevoerde signalen zijn ongemoduleerd.

Tijdens het afregelen dient de uitgangsspanning van de service oscillator dusdanig te worden ingesteld dat de in de tabel aangegeven waarden overschreden worden. (Indien nodig uitgangsspanning van Service oscillator verminderen.)

| | Stand van stationswijzer | Signaal | Service oscillator aansluiten | Afregelen | Aanwijzing diodevoltmeter |
|----------------------------|--------------------------|---------|---|-----------|---------------------------|
| H.F. bandfilters | 87,5MHz | 87,5MHz | via 1500 pF aan g1B3 | S34 | Max. ca. 3V |
| | | | | *S36-S36a | 0V |
| | | | via 1500 pF aan g1B3 | **S30 | Max. ca. 8V |
| | | | | S31 | Max. ca. 8V |
| | | | via 1500 pF aan g1B2 | S26 | Max. ca. 8V |
| | | | | S27 | Max. ca. 8V |
| H.F. en oscillator kringen | 87,5MHz | 87,5MHz | tussen antennebus F.M. en aarde \perp $\underline{\underline{\quad}}$ | S58 | Max. ca. 8V |
| | | | | S21 | Max. ca. 8V |
| | 100 MHz | 100 MHz | tussen antennebus F.M. en aarde \perp $\underline{\underline{\quad}}$ | S55 | Max. 1e piek van min. |
| | | | | S56-S57 | Max. |
| | | | tussen antennebus F.M. en aarde \perp $\underline{\underline{\quad}}$ | C86 | Max. 1e piek van min. |
| | | | | C89 | Max. |

* Diode voltmeter aansluiten via twee weerstanden van 220 k Ω als aangegeven bij principeschema.

** Weerstanden van 220 k Ω verwijderen en diode voltmeter aansluiten over R23 (in serie met 0,1 M Ω).

Vervanging van transformatoren.

Indien de voedings- of uitgangstransformator (S44-S45) defect raakt moet deze vervangen worden door de in de stuklijst genoemde standaardtransformator.

De nummers verwijzen naar de overeenkomstige aansluitpunten.
Voor aansluitingen zie Fig. 2 en 3.

LIJST VAN ONDERDELEN

Bij bestelling steeds vermelden:

1. Codenummer en kleur.
2. Omschrijving.
3. Typenummer van het apparaat.

| | Omschrijving | Codenummer |
|--|--|--------------|
| | Houder voor pick-up kop | P4 380 35/17 |
| | Toets | A3 417 61.0 |
| | Knop (toonregeling) | A3 752 69.0 |
| | Knop (volumeregeling) | A3 751 59.0 |
| | Knop (antenne afstemming) | A3 751 61.2 |
| | Knop (groot voor afstemming) | A3 752 27.2 |
| | Knop (klein voor afstemming) | A3 751 59.0 |
| | Veer (voor afstemknop) | A3 650 18.0 |
| | Veer (voor overige knoppen) | A3 522 08.0 |
| | Variabele condensator (A.M.) | 49 001 94.0 |
| | Variabele condensator (F.M.) | 49 001 91.0 |
| | Netschakelaar | B1 590 18.0 |
| | Kap (voor netschakelaar) | P5 280 25/08 |
| | Kap (voor steker dipoolantenne) | P5 280 26/04 |
| | Spanningsomschakelaar | A3 229 76.0 |
| | Trommel (voor F.M. variabele condensator) | P4 505 45.0 |
| | Bladveer (spoolbevestiging) | A3 651 89.0 |
| | Trekveer (in aandrijfsnaar) | A3 646 47.0 |
| | Stationsnamenschaal (Noord) | A3 808 13.0 |
| | Stationsnamenschaal (Zuid) | A3 808 12.0 |
| | Ring voor 45 toeren platen | P4 380 39/17 |
| | Voor het bestellen van onderdelen welke niet in bovenstaande lijst voorkomen raadplege men het Service Standaard boekje. | |
| | | vG/GH |

| | | | | | | |
|------|-----|---------------------|------|----------|------|---------------------|
| S1 | | | S42 | | | |
| S2 | | | S42a | | | WE 110 61.0 |
| S3 | | | S47 | | | |
| S3a | | A3 141 40.3 | S48 | | | |
| Z1 | | | C7 | 47 | pF | WE 120 35.0 |
| S4 | | | C8 | 47 | pF | |
| S5 | | A9 999 21/16-50M | S44 | | | |
| S6 | | | S45 | | | A9 999 18/03 |
| S6a | | A3 118 35.0 | S45a | | | |
| S7 | | | S37 | | | |
| S7a | | A3 118 54.0 | S38 | | | |
| S8 | | | S39 | | | A3 153 47.0 |
| S9 | | | S40 | | | |
| S10 | | A9 999 23/780-2000M | S41 | | | |
| S11 | | | S50 | | | |
| S12 | | | S51 | | | A3 119 72.0 |
| C14 | 240 | A3 119 70.0 | S52 | | | |
| C15 | 5,6 | | S53 | | | |
| S20 | | | S54 | | | A3 119 79.0 |
| S22 | | A9 999 23/16-50M | S55 | | | |
| S23 | | | S58 | | | |
| S24 | | A9 999 23/185-590M | S59 | | | A3 127 82.0 |
| S25 | | | C1 | 50 | HF | |
| S21 | | | C1a | 50 | HF | A9 999 13M/50+50+50 |
| C31 | 15 | A3 127 83.0 | C2 | 50 | HF | |
| S26 | | | C3 | 12,5-489 | pF | |
| S27 | | | C4 | 12,5-511 | pF | 49 001 94.0 |
| C34 | 33 | A9 999 26/10,7 | C5 | 68 | pF | A9 999 04/68E |
| C35 | 33 | | C6 | 68 | pF | A9 999 04/68E |
| S28 | | | C7 | 47 | pF | See coils |
| S29 | | A9 999 25/452 | C8 | 47 | pF | Zie spoelen |
| C36 | 110 | | | | | Voir bobines |
| C37 | 195 | | | | | Siehe Spulen |
| S30 | | | C9 | 30 | pF | A9 999 08/30E |
| S31 | | | C10 | 30 | pF | A9 999 08/30E |
| C42 | 33 | A9 999 26/10,7 | C11 | 33 | pF | A9 999 04/33E |
| C43 | 33 | | C12 | 10 | pF | A9 999 04/10E |
| S32 | | | C13 | 6,8 | pF | A9 999 04/6E8. |
| S33 | | | C14 | 240 | pF | See coils |
| C44 | 195 | A3 127 72.0 | C15 | 5,6 | pF | Zie spoelen |
| C45 | 195 | | | | | Voir bobines |
| S34 | | | C16 | 68 | pF | A9 999 04/68E |
| S35 | | | C17 | 445 | pF | A9 999 05/430E+ |
| S36 | | | | | par. | A9 999 05/15E |
| S36a | | A3 127 01.0 | C18 | 100 | pF | A9 999 04/100E |
| C53 | 47 | | C19 | 200 | pF | A9 999 05/200E |
| C72 | 22 | | C20 | 22 | pF | A9 999 08/22E |
| | | | C21 | 22 | pF | A9 999 08/22E |
| | | | C22 | 68 | pF | A9 999 04/68E |

| | | | | | | | |
|-----|--------|---------|----------------|------|----------|----------------|----------------|
| C23 | 10.000 | pF | A9 999 04/10K | C73 | 10000 | pF | A9 999 04/10K |
| C24 | 470 | pF | A9 999 04/470E | C74 | 3900 | pF | A9 999 06/3K9 |
| C25 | 0,47 | μ F | A9 999 06/470K | C75 | 100 | μ F | A9 999 10/C100 |
| C26 | 100 | pF | A9 999 05/100E | C76 | 680 | pF | A9 999 04/680E |
| C30 | 120 | pF | A9 999 04/120E | C77 | 2200 | pF | A9 999 04/2K2 |
| C31 | 15 | pF | See coils | C80 | 6,8 | pF | A9 999 04/6E8 |
| | | | Zie spoelen | C81 | 1500 | pF | A9 999 04/1K5 |
| | | | Siehe Spulen | C82 | 2,7 | pF | A9 999 04/2E7 |
| | | | Voir bobines | C83 | 33 | pF | A9 999 04/33E |
| C32 | 30 | pF | A9 999 08/30E | C84 | 2,5-12,5 | pF | } 49 001 91.0 |
| C33 | 30 | pF | A9 999 08/30E | C92 | 2,5-12,5 | pF | |
| C34 | 33 | pF | Zie spoelen | C85 | 15 | pF | A9 999 04/15E |
| | | | Siehe Spulen | C86 | 6 | pF | A9 999 08/5E5 |
| | | | Voir bobines | C87 | 220 | pF | A9 999 05/220E |
| | | | See coils | C88 | 12 | pF | A9 999 04/12E |
| C38 | 4700 | pF | A9 999 04/4K7 | C89 | 6 | pF | A9 999 08/5E5 |
| C39 | 330 | pF | A9 999 04/330E | C90 | 56 | pF | A9 999 04/56E |
| C40 | 4700 | pF | A9 999 04/4K7 | C91 | 933 | pF | A9 999 05/910E |
| C41 | 6800 | pF | A9 999 04/6K8 | | | | +A9 999 05/22E |
| C42 | 33 | pF | Zie spoelen | C93 | 10000 | pF | A9 999 04/10K |
| C43 | 33 | pF | Siehe Spulen | C94 | 12 | pF | A9 999 04/12E |
| C44 | 195 | pF | Voir bobines | C95 | 2200 | pF | B1 664 25.0 |
| C45 | 195 | pF | See coils | C96 | 2200 | pF | B1 664 25.0 |
| C46 | 33 | pF | A9 999 04/33E | C97 | 2200 | pF | B1 664 25.0 |
| C47 | 47 | pF | A9 999 04/47E | C150 | 10 | pF | A9 999 04/10E |
| C48 | 4700 | pF | A9 999 04/4K7 | C151 | 4,7 | pF | A9 999 04/4E7 |
| C49 | 10000 | pF | A9 999 04/10K | C152 | 4,7 | pF | A9 999 04/4E7 |
| C50 | 6800 | pF | A9 999 04/6K8 | C153 | 4,7 | pF | A9 999 04/4E7 |
| C51 | 4700 | pF | A9 999 04/4K7 | C100 | 4700 | pF | A9 999 06/4K7 |
| C52 | 1000 | pF | A9 999 06/1K | R1 | 900 | Ω par. | B1 636 10.0 |
| C53 | 47 | pF | See coils | | | | (2x) |
| | | | Zie spoelen | R1b | 94 | Ω serie | B1 636 16.0 |
| | | | Siehe Spulen | | | | (2x) |
| | | | Voir bobines | R2 | 100 | Ω | 48 767 05/100E |
| C54 | 4700 | pF | A9 999 04/4K7 | R3 | 33000 | Ω | A9 999 00/33K |
| C55 | 4700 | pF | A9 999 04/4K7 | R4 | 18 | M Ω | A9 999 00/18M |
| C56 | 10 | μ F | A9 999 09/E10 | R5 | 1,5 | M Ω | A9 999 00/1M5 |
| C57 | 47000 | pF | A9 999 06/47K | R6 | 56000 | Ω par. | A9 999 00/120K |
| C58 | 22000 | pF | A9 999 06/22K | | | | (2x) |
| C54 | 8200 | pF | A9 999 06/8K2 | R8 | 47000 | Ω | A9 999 00/47K |
| C60 | 2200 | pF | A9 999 06/2K2 | R9 | 33000 | Ω | A9 999 00/33K |
| C61 | 2200 | pF | A9 999 06/2K2 | R10 | 1000 | Ω | A9 999 00/1K |
| C62 | 2200 | pF | A9 999 06/2K2 | R11 | 10 | Ω | A9 999 00/10E |
| C63 | 22000 | pF | A9 999 06/22K | R12 | 0,1 | M Ω | A9 999 00/100K |
| C64 | 8 | μ F | A9 999 11/P8 | R14 | 220 | Ω | A9 999 00/2K2 |
| C65 | 470 | pF | A9 999 04/470E | R15 | 82000 | Ω | A9 999 00/82K |
| C66 | 10000 | pF | A9 999 04/10K | R16 | 2200 | Ω | A9 999 00/2K2 |
| C67 | 300 | pF | A9 999 05/3K | R17 | 0,22 | M Ω | A9 999 00/220K |
| C68 | 4700 | pF | A9 999 06/4K7 | R18 | 2,2 | M Ω | A9 999 00/2M2 |
| C69 | 1200 | pF | A9 999 06/1K2 | R19 | 0,1 | M Ω | A9 999 00/100K |
| C70 | 1000 | pF | A9 999 06/1K | R20 | 0,12 | M Ω | A9 999 00/120K |
| C71 | 22000 | pF | A9 999 06/V22K | R21 | 15000 | Ω | A9 999 00/15K |
| C72 | 22 | pF | See coils | R22 | 47000 | Ω | A9 999 00/47K |
| | | | Zie spoelen | R23 | 10000 | Ω | A9 999 00/10K |
| | | | Siehe Spulen | R24 | 0,8 | M Ω | } B1 638 19.0 |
| | | | Voir bobines | R25 | 0,1 | M Ω | |

| | | | | | | | |
|------|-------|----|----------------|------|-------|----|-----------------|
| R25a | 0,1 | MΩ | B1 638 19.0 | R52 | 1 | MΩ | A9 999 00/1M |
| R26 | 33000 | Ω | A9 999 00/33K | R53 | 1000 | Ω | A9 999 00/1K |
| R27 | 68 | Ω | A9 999 00/68E | R54 | 220 | Ω | A9 999 00/220E |
| R28 | 10000 | Ω | A9 999 00/10K | R55 | 820 | Ω | 49 380 13.0 |
| R29 | 0,1 | MΩ | A9 999 00/100K | R56 | 820 | Ω | 49 380 13.0 |
| R30 | 100 | Ω | A9 999 00/100E | R57 | 150 | Ω | A9 999 00/150E |
| R31 | 0,47 | MΩ | A9 999 00/470K | R58 | 0,47 | MΩ | A9 999 00/470K |
| R32 | 0,33 | MΩ | A9 999 00/330K | R59 | 820 | Ω | A9 999 00/820E |
| R33 | 0,68 | MΩ | A9 999 00/680K | R60 | 22 | MΩ | A9 999 00/22M |
| R34 | 1,6 | MΩ | B1 639 48.0 | R61 | 100 | Ω | A9 999 00/100E |
| R35 | 0,4 | MΩ | | R62 | 0,68 | MΩ | A9 999 00/680K |
| R36 | 0,33 | MΩ | A9 999 00/330K | R63 | 180 | Ω | A9 999 00/180E |
| R37 | 0,1 | MΩ | A9 999 00/100K | R64 | 27 | Ω | A9 999 00/27E |
| R38 | 0,47 | MΩ | A9 999 00/470K | R65 | 1 | MΩ | A9 999 00/1M |
| R39 | 0,1 | MΩ | A9 999 00/100K | R66 | 2200 | Ω | A9 999 00/2K2 |
| R40 | 47000 | Ω | A9 999 00/47K | R67 | 10000 | Ω | A9 999 00/10K |
| R41 | 0,1 | MΩ | A9 999 00/100K | R80 | 0,12 | MΩ | A9 999 00/120K |
| R42 | 0,45 | MΩ | B1 639 49.0 | R100 | 0,33 | MΩ | A9 999 00/330K |
| R42a | 0,05 | MΩ | | Z2 | 400 | mA | A9 999 74/400 |
| R43 | 0,1 | MΩ | A9 999 00/100K | Z3 | 10 | A | A9 999 74/10000 |
| R44 | 2200 | Ω | A9 999 00/2K2 | Z4 | 63 | mA | A9 999 74/63 |
| R45 | 0,22 | MΩ | A9 999 00/200K | Z5 | 63 | mA | A9 999 74/63 |
| R46 | 0,27 | MΩ | A9 999 00/270K | | | | |
| R47 | 3,9 | Ω | A9 999 0 0/3M9 | | | | |
| R48 | 12 | MΩ | A9 999 00/12M | | | | |
| R49 | 0,47 | MΩ | A9 999 00/470K | | | | |
| R50 | 0,12 | MΩ | A9 999 00/120K | | | | |
| R51 | 0,39 | MΩ | A9 999 00/390K | | | | vG/GH |

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 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 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

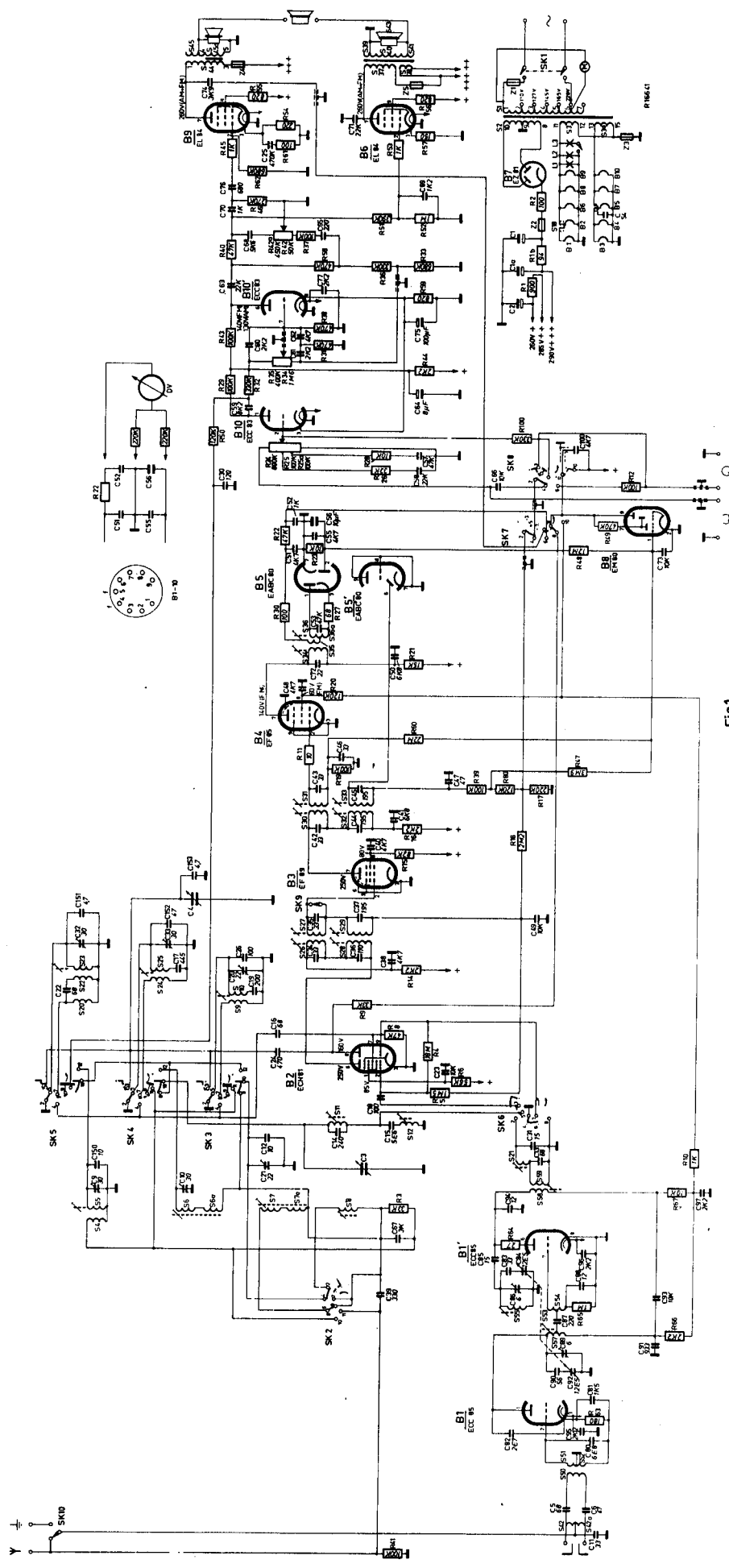


Fig.1

P18641

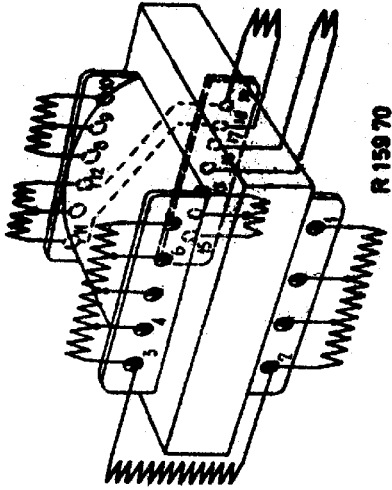


Fig.2

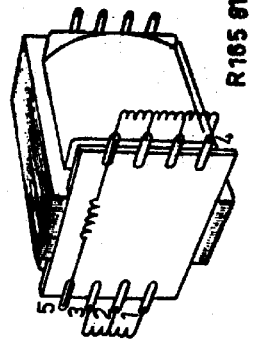


Fig.3

