## STEREO - DEKODER

Nødvendig måleutstyr:
FM-stereogenerator.
Oscilloskop (AC-rørvoltmeter).
Frekvensteller.

### Oscillator, 19 kHz

- Tilfør antenneinngangen 1 mV/300 Ω fra FM-stereogenerator modulert med 10 % pilotsignal og ca. 53 % (± 40 kHz deviasjon) 1 kHz modulasjonssignal. Påse at mottakeren er innstilt til nøyaktig generatorfrekvens.
- Sett R523 i midtstilling.
- Kortslutt dekoderinngang C65 med en kondensator på minst 0,47 μF til jord.
- Justér R503 til 19 kHz avleses på frekvenstelleren tilkoplet M10 (pin 10 på MC 1310 P). Uten frekvensteller KAN oscillatoren justeres til «midt i tennområdet» for stereolampen. (NB! uten kortsluttet dekoderinngang.)

### Kanalseparasjon

- Eventuell kortslutning på dekoderinngang fjernes.
- Sett apparatets bass- og diskantkontroll til minimum og volumkontroll til ca. midtstilling.
- Oscilloskop (evt. også rørvoltmeter) tilkoples høyre og/eller venstre forsterkerutgang.
- Justér R523 til best mulig kanalseparasjon (minimum signal i motsatt kanal når høyre og deretter venstre kanal moduleres). Et kompromiss mellom max. oppnåelig kanalseparasjon i begge tilfeller kan være normalt.

**Justering av kanalseparasjon KAN også foretas på utsendt testsignal fra FM-stereokringkaster.**

NB! Påse at mottakeren er avstemt til nøyaktig stasjonsfrekvens.

- Justér R523 til minimum signal i motsatt kanal, når tsetsignalet består av pilotsignal samt modulasjonssignal i høyre eller venstre kanal. Balansekontrollen kan da med fordel brukes til å dempe ned den høyttaleren som gjengir modulasjonskanalen.

### Automatisk Stereo/Mono-omkopling

- Drei R505 helt til høyre anslag.
- Tilfør mottakeren et signal på ca. 10 μV/300 Ω fra en stereogenerator. STEREO-lampen skal nå være slukket.
- Justér R505 forsiktig mot venstre til det punkt hvor lampen tenner.

### SM 240 G

Koplingsskjema for SM 240 G er med følgende unntagelser identisk med SM 340 GC:
SM 240 G har bare ett uttak for hodetelefon.
Kontakt og vender merket CASS på SM 340 GC er på SM 240 G merket AUX.
To skalalamper bak Radionette-emblem med tilhørende motstand er sløyfet på SM 240 G.

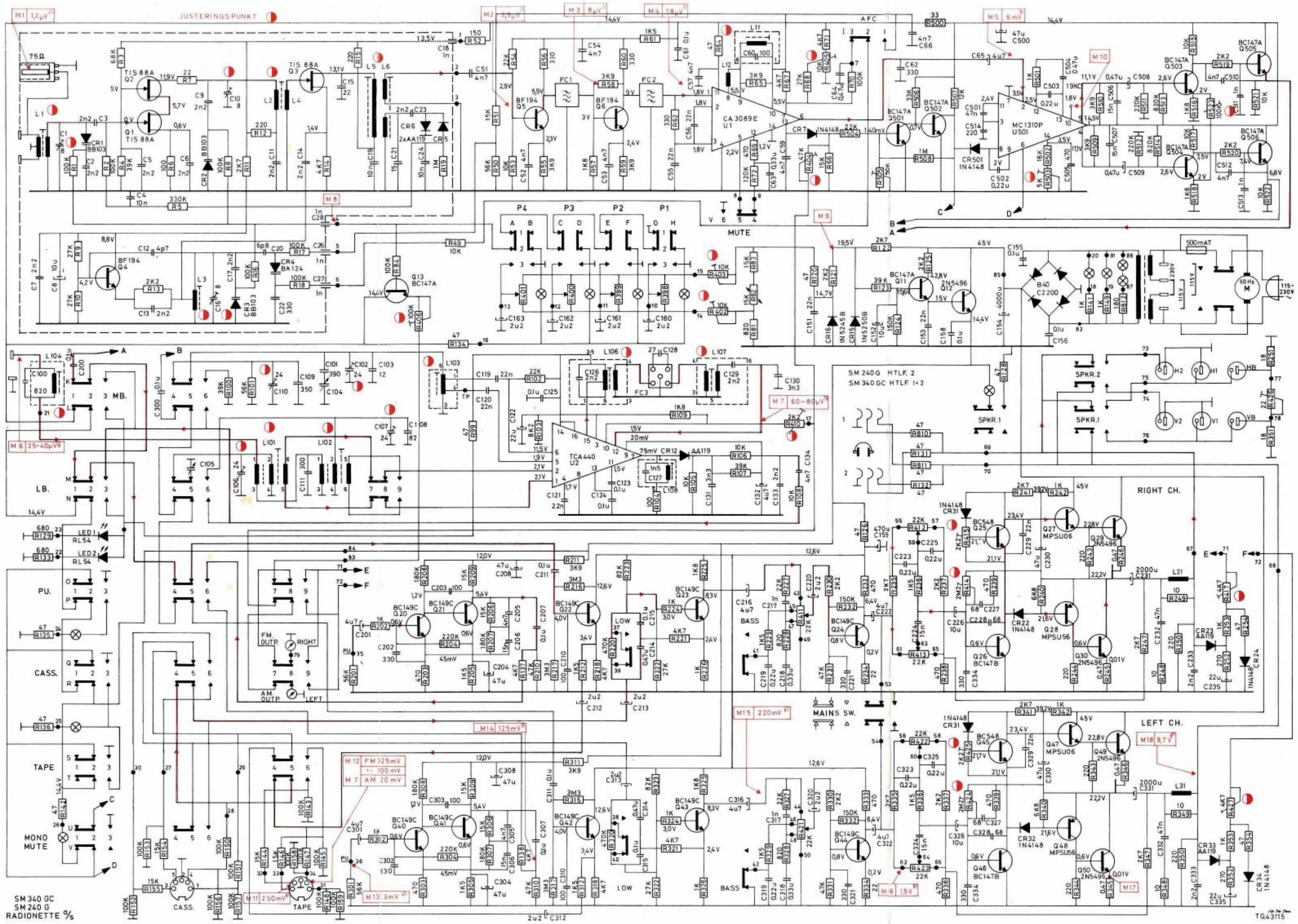



Fig. 4. Hovedskjema.

Ledningssett 996314

### Målebetingelser:

| Indeks | Målebetingelser: |
|---|---|
| 1) | f = 98 MHz, dev. = 75 kHz. Generatorimp. = 300 ohm. Signalet skal gi 650 mV på diodeuttak (M 12). |
| 2) | f = 10,7 MHz, dev = 22.5 kHz. Generatorimp. = 75 ohm. Signalet tilføres via en AC spenningsdeler (fig. 6) og skal gi 200 mV i M 12. |
| 3) | f = 1 kHz. Generatorimp. 600 ohm. Signalet tilføres via 0,1 uF og skal gi 200 mV i M 12. |
| 4) | f = 1000 kHz, m = 30 %. Signalet tilføres via standard kunstantenne og skal gi 40 mV i M 12. |
| 5) | f = 455 kHz, m = 30 %. Signalet tilføres via 0,1 uF og skal gi 40 mV i M 12. |
| 6) | f = 1 kHz. Generatorimp. = 600 ohm. Volum i maks. og tonekontroller i midtstilling skal gi 9,7 V i M 18. |
| 7) | Referanser for M 1 – M 7 målt med rørvoltmeter. |
| 8) | Utgangsspenning målt over 4 ohms belastning. |
| 9) | Refererer seg til U inn = 3 mV i M 11 (magnetisk) målt med rørvoltmeter. |

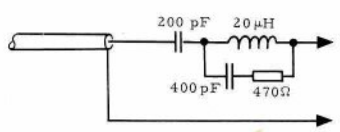



Fig. 5. Standard kunstantenne.

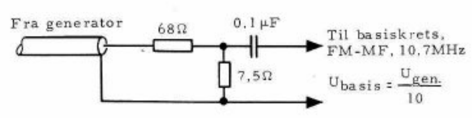
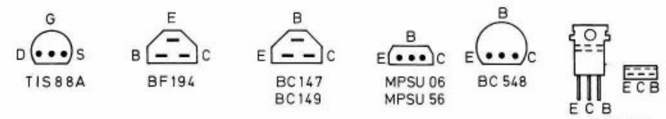



Fig. 6. AC-spenningsdeler.

TRANSISTORER SETT FRA UNDERSIDEN




Service-forskrift

RADIONETTE

**SM 340 GC**
**SM 240 G**

RADIODELEN

## KASSETT - DELEN

For service på kassettdelen (SM 340 GC) viser vi til serviceforskrift for SM 340 GC — KASSETT-DELEN.

## PLATESPILLEREN

For service på platespilleren viser vi til serviceforskrift for SM 340 GC/SM 240 G — PLATESPILLER.

## Mekanisk demontering

Ved all service må det tas forholdsregler så skader ikke påføres apparatet.

- Støvdekslet er ømfintlig for riper, og bør fjernes om apparatet skal settes på kant eller på hodet.
- Platespilleren må sikres ved at transportskruene skrues helt opp, og pickuparmen må låses forsvarlig. Dessuten må en passe på at pickuparmen ikke utsettes for press.

For å få adgang til hovedplatens folieside fjernes bunndekslet (6 skruer på SM 340 GC, 4 skruer på SM 240 G).
For å få adgang til hovedplatens komponentside fjernes hele topp-platen med platespiller.

### Fjerning av topp-plate

- Sikre platespilleren.
- Skru ut fire festeskruer i topp-platens hjørner.
- Skyv topp-platen litt bakover og løft den opp.
- Løs signalledningene på hovedplaten.
- Topp-platen med platespiller kan nå tas ut og plasseres som vist på figur 1.
- Ved montering, rød signalledning til høyre kanal (pin 35).

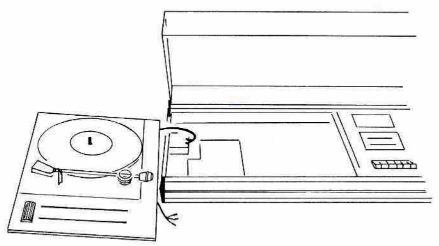


Fig. 1. Topp-platen utmontert, servicestilling.

### Utmontering av platespilleren

Utmontering av platespilleren bør bare skje når det er nødvendig, og det må da utvises forsiktighet slik at avfjæringene ikke blir skadet.

**Utmontering**

- Skru transportskruene opp noen få omdreininger slik at de løsner fra sjassiplaten.

Vipp skruehodene ut mot sjassiplatens kant (se fig. 2) og løft platespillersjassiet opp.

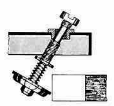


Fig. 2. Frigjøring av sjassiplate.

- Løs signalledningene på hovedplaten.
- Platespilleren kan nå tas ut og plasseres ved siden av apparatet.
- Ved montering, rød signalledning til høyre kanal (pin 35).

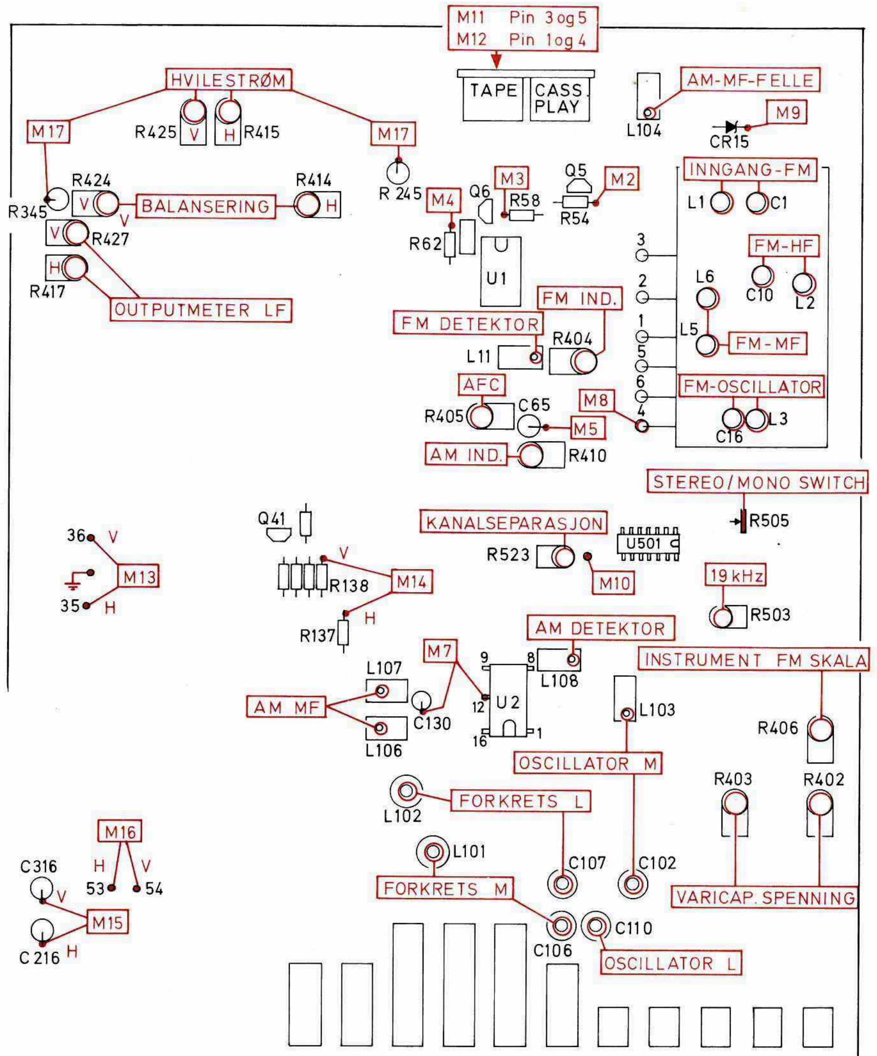



Fig. 3. Trimme- og målepunkter.

## Elektriske justeringer

## LF - DELEN

### Hvilestrøm

- Sett volumkontrollen i minimumstilling.

| Kanal | Voltmeter koplet over | Justér | Avlesning |
|---|---|---|---|
| Høyre | R245 (M 17) | R415 | 10 mV |
| Venstre | R345 (M 17) | R425 | 10 mV |

### Balansering

- 1 kHz sinussignal tilføres TAPE-inngang pin 3 og 5 (M 9).

| Kanal | Oscilloskop tilkoplet | Justér | Avlesning |
|---|---|---|---|
| Høyre | Høyttalerutgang (M 18) | R414 | Symmetrisk klipping ved full utstyring, 9, 7 V RMS over 4 ohm. |
| Venstre | | R424 | |

## AM - DELEN

### AM - trimmeprosedyre

| Krets | Bånd | Mottaker Frekvens | Generator Frekvens | Generator Tilført | Justér | Outputmeter | Merknader |
|---|---|---|---|---|---|---|---|
| AM-MF | M | 1300 kHz | Ca. 455 kHz For å bestemme nøyaktig generator-frekvens, se nedenfor*) | Antenne-inngang (M6) over standard kunst-antenne (fig. 5) | L106 L107 | Max. | MF-felle L104 må forstemmes Bruk svakt signal. |
| Detektor | | | | | L108 | | |
| MF-felle | | | | | L104 | Min. | Kraftigere signal. |
| Osc. | M | 600 kHz 1370 kHz | 600 kHz 1370 kHz | | L103 C102 | Max. | |
| | L | 250 kHz | 250 kHz | | C110 | | |
| Forkrets | M | 600 kHz 1500 kHz | 600 kHz 1500 kHz | | L101 C106 | Max. | |
| | L | 160 kHz 250 kHz | 160 kHz 250 kHz | | L102 C107 | | |
| Indikator | L | 250 kHz | 250 kHz 200 mV, mod. 30 % | | R410 | Indikatorsutslaget justeres til midt i det røde feltet. | På et lite antall apparater fra tidlig produksjon er R410 erstattet med en fast motstand R110, 680 ohm. |

### * Generatorfrekvens for AM-MF trimming

Den nøyaktige MF-frekvensen er bestemt av det keramiske filteret i MF-forsterkeren, og kan finnes på følgende måte:

- Still mottakeren på ca. 1300 kHz på mellombølge.
- Et outputmeter tilkoples utgangen.
- Tilfør AM-antenneinngangen et signal på ca. 455 kHz, (modulasjon 30 % - 1000 Hz).
- Forstem MF-fellen L104, og finstill AM-generatoren omkring 455 kHz til max. utslag på outputmeteret.

**Riktig MF-frekvens er derved funnet.**

## FM - DELEN

Normalt skulle det ikke være nødvendig å justere LC-kretsene. Hvis det allikevel må gjøres på grunn av reparasjon, brukes følgende prosedyre.

| Krets | Mottaker | Generator Frekvens | Generator Tilført | Justér | Merknader |
|---|---|---|---|---|---|
| Varicap-spenning | Trykk inn P1-knappen, og still P1-søkerhjul til: | | | | AFC koples ut. |
| R403 | Høyest frekvens anslag **mot** urviseren (↶). | | | R403 | Justér til 13 V i M8 (FM-tuner) |
| R402 | Lavest frekvens (anslag **med** urviseren (↷). | | | R402 | Justér til 2,95 V i M8 (FM-tuner) |
| FM-MF | ca. 10,5 V i M8 | 102 MHz | FM-antenne-inngang (M1) | L5, L6 | |
| Osc. | ca. 3,6 V i M8<br>ca. 10,5 V i M8 | 89 MHz<br>102 MHz | | L3 C16 | Bruk svakt signal. |
| VHF | ca. 3,6 V i M8<br>ca. 10,5 V i M8 | 89 MHz<br>102 MHz | | L2 C10 | Justér til max. utslag på indikatorinstrumentet. |
| Antenne-krets | ca. 3,6 V i M8<br>ca. 10,5 V i M8 | 89 MHz<br>102 MHz | | L1 C1 | |

### Detektor

- Sweepsignal 102 MHz, 10 $\mu$V, deviasjon min. $\pm$ 150 kHz tilføres antenneinngangen (M1).
- Oscilloskop tilkoples pin 1/4 på TAPE-kontakt (M14).
- AFC utkoples.
- L11 trimmes til symmetrisk S-kurve med riktig innstilt mottaker (S-kurven midt på skopskjermen).
- Kople inn AFC (utløs knappen).
- Justér R405 til kurven står i senter av skopskjermen.
- Kople ut AFC, og justér mottakeren til kurven er i senter. Ved riktig justering skal kurven ikke flytte seg til siden når AFC skiftesvis koples ut og inn.

### FM-indikator (signalstyrke)

- Justér utslaget med R404. Uten signal skal viseren ligge i midten av det smaleste feltet.

### FM-indikator (frekvens)

- Tilfør signal 95 MHz til M1.
- Still P1-søker til signalet mottas.
- Justér R 406 til frekvensindikatoren viser 95 MHz.

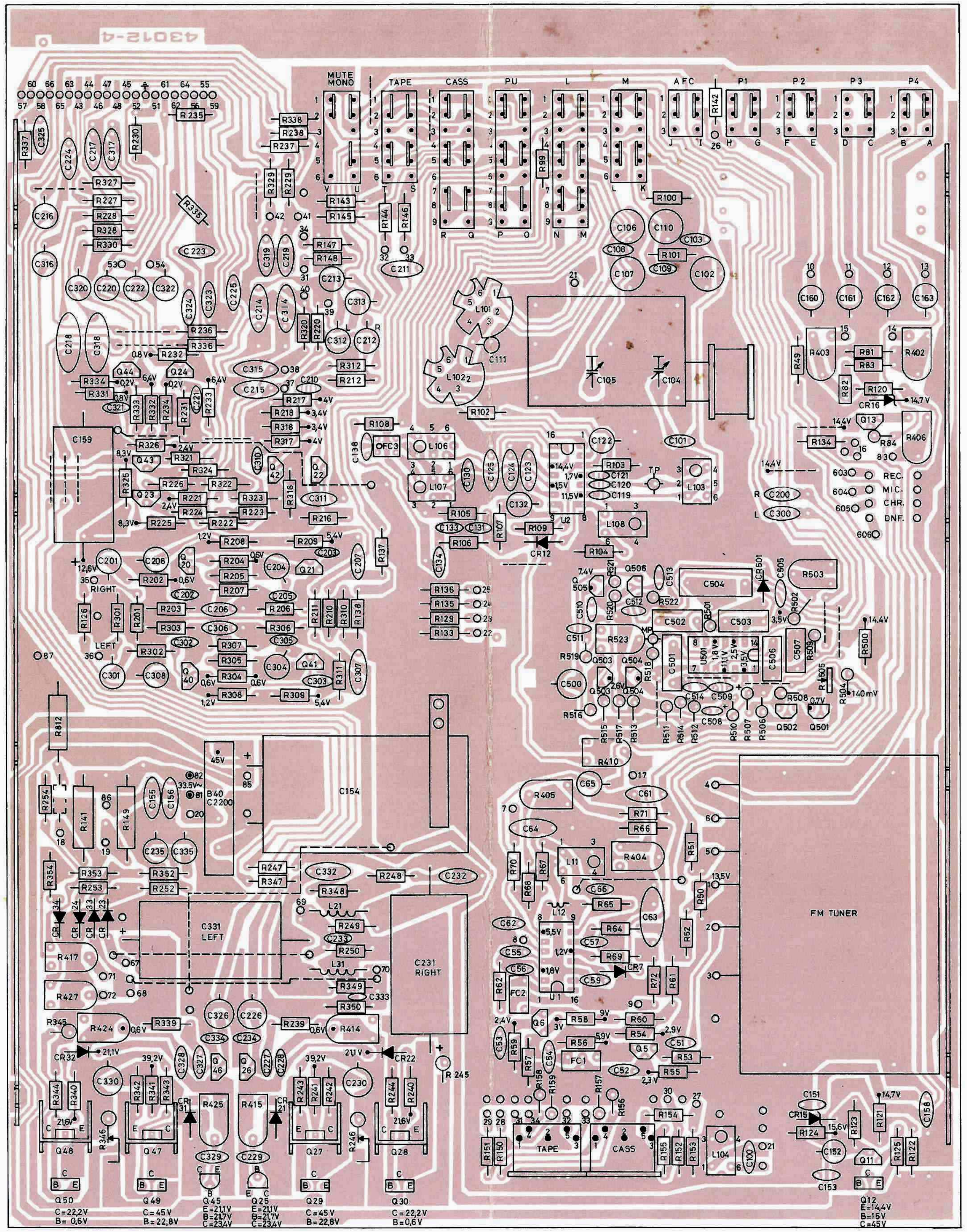



Fig. 7. Hovedplate.

**PLATENE ER TEGNET SETT FRA FOLIESIDEN**

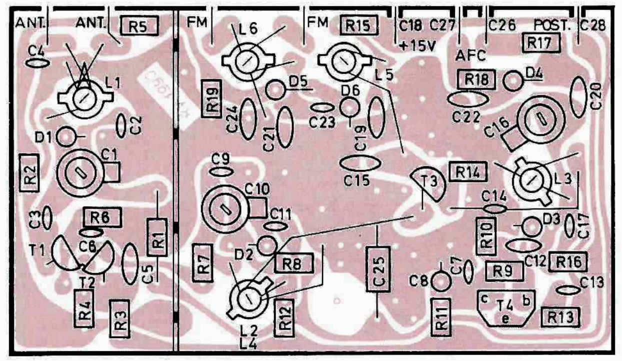



Fig. 8. FM-tuner.

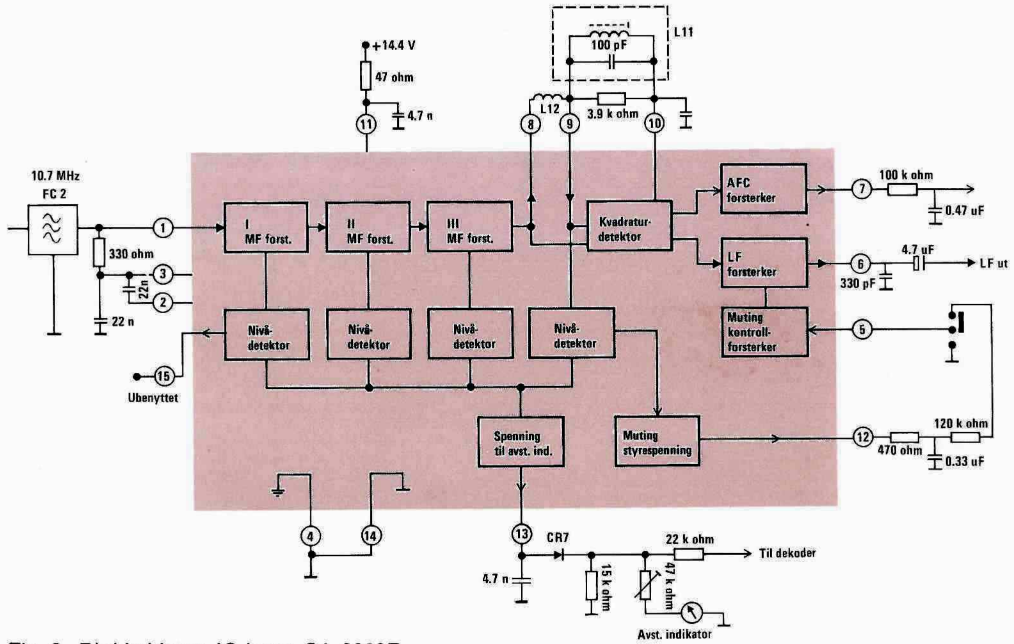



Fig. 9. Blokkskjema IC-krets CA 3089E.

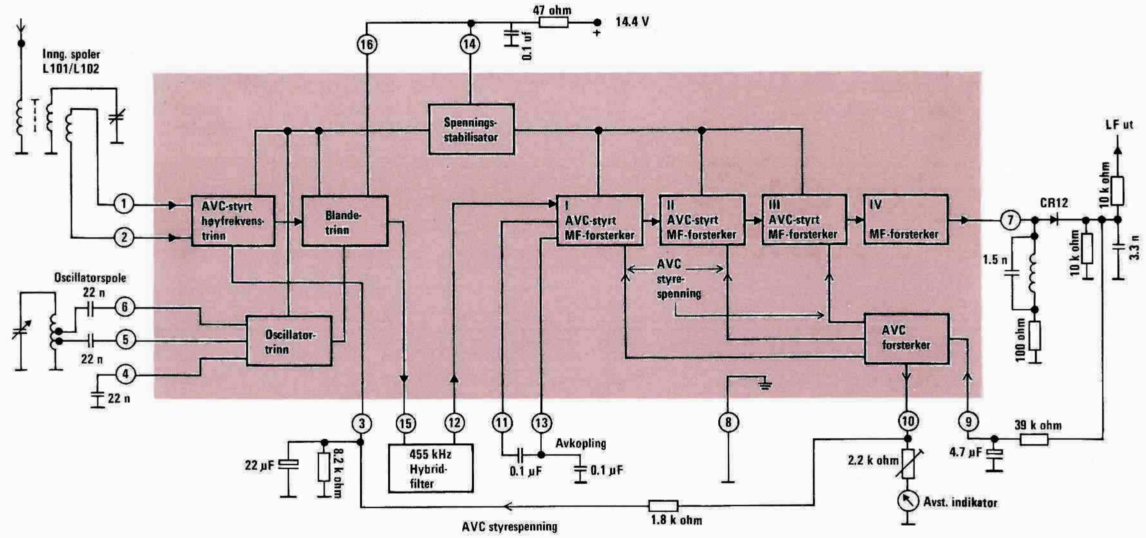



Fig. 10. Blokkskjema IC-krets TCA 440.

# Elektriske deler

## Transistorer

| Ref. nr. | Type |
|---|---|
| Q 1-SM 340 GC | TIS 88 A alt. U 1994 E |
| Q 2-SM 340 GC | |
| Q 3-SM 340 GC | |
| Q 4-SM 340 GC | BF 194 |
| Q 5-SM-340 GC | |
| Q 6-SM 340 GC | |
| Q11-SM 340 GC | BC 147 B |
| Q12-SM 340 GC | 2N 5496 |
| Q13-SM 340 GC | BC 147 B |
| Q20/Q40-SM 340 GC | BC 149 C |
| Q21/Q41-SM 340 GC | |
| Q22/Q42-SM 340 GC | |
| Q23/Q43-SM 340 GC | |
| Q24/Q44-SM 340 GC | |
| Q25/Q45-SM 340 GC | BC 548 B |
| Q26/Q46-SM 340 GC | BC 147 B |
| Q27/Q47-SM 340 GC | MPSU 06 |
| Q28/Q48-SM 340 GC | MPSU 56 |
| Q29/Q49-SM 340 GC | 2N 5496 alt. 2N 6099 |
| Q30/Q50-SM 340 GC | |
| Q501-SM 340 GC | BC 147 A |
| Q502-SM 340 GC | |
| Q503-SM 340 GC | |
| Q504-SM 340 GC | |
| Q505-SM 340 GC | |
| Q506-SM 340 GC | |

## Potensiometere

| Ref. nr. | Verdi | |
|---|---|---|
| R398-SM 340 GC | 100 kohm, lin | FM-preset, P1 |
| R399-SM 340 GC | 100 kohm, lin | FM-preset, P2 |
| R400-SM 340 GC | 100 kohm, lin | FM-preset, P3 |
| R401-SM 340 GC | 100 kohm, lin | FM-preset, P4 |
| R402-SM 340 GC | 10 kohm, lin | Varicapspenning |
| R403-SM 340 GC | 10 kohm, lin | Varicapspenning |
| R404-SM 340 GC | 50 kohm, lin | FM-ind. innstilling |
| R405-SM 340 GC | 10 kohm, lin | AFC |
| R406-SM 340 GC | 100 kohm, lin | FM-ind. skala |
| R410-SM 340 GC | 2,2 kohm, lin | AM-ind. |
| R411-SM 340 GC | 22 kohm | Volumkontroll |
| R412-SM 340 GC | 22 kohm | Diskantkontroll |
| R413-SM 340 GC | 22 kohm | Basskontroll |
| R414-SM 340 GC | 2,2 Mohm | Midtpunktspenning |
| R415-SM 340 GC | 2 kohm | Hvilestrøm |
| R417-SM 340 GC | 5 kohm | Outputmeter, LF |
| R421-SM 340 GC | 22 kohm | Volumkontroll |
| R422-SM 340 GS | 22 kohm | Diskantkontroll |
| R423-SM 340 GC | 22 kohm | Basskontroll |
| R424-SM 340 GC | 2,2 Mohm | Midtpunktspenning |
| R425-SM 340 GC | 2 kohm | Hvilestrøm |
| R426-SM 340 GC | 22 ohm | Ambiofoni diff. signal |
| R427-SM 340 GC | 5 kohm | Outputmeter LF |
| R503-SM 340 S | 5 kohm | 19 kHz-filter |
| R505-SM 340 GC | 50 kohm | Stereo/mono-switch |
| R523-SM 340 GC | 100 kohm | Kanalseparasjon |

## Dioder

| Ref. nr. | Type |
|---|---|
| CR 7-SM 340 GC | 1N 4148 |
| CR 12-SM 340 GC | 2AA 119 |
| CR 15-SM 340 GC | 1N 5250 B (zener 20 V) |
| CR 16-SM 340 GC | 1N 5245 B (zener 15 V) |
| CR 21-SM 340 GC | 1N 4148 |
| CR 22-SM 340 GC | |
| CR 23-SM 340 GC | 2AA 119 |
| CR 24-SM 340 GC | 1N 4148 |
| CR 31-SM 340 GC | |
| CR 32-SM 340 GC | |
| CR 33-SM 340 GC | 2AA 119 |
| CR 34-SM 340 GC | 1N 4148 |
| CR501-SM 340 GC | |

## Integrerte kretser

| Ref. nr. | Type |
|---|---|
| U 1-SM 340 GC | CA 3089 E |
| U 2-SM 340 GC | TCA 440 |
| U501-SM 340 GC | MC 1310 P |

## Skifting av skalapærer

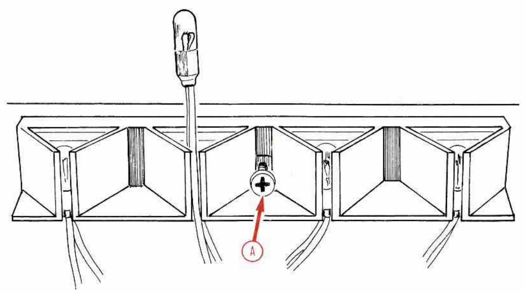



Fig. 11. Utmontering av skalapærer.

- Ta av apparatets topp-plate.
- Skru ut skruen (A), og trekk monteringslisten for skalapærene ut av frontpanelet.
- Trekk ut pæren med ledninger (fast tilkoplet) og skift til ny.
- Trykk den nye pæren på plass. Unngå strekk i ledningene inn i pæren.
- Skru monteringslisten på plass.

## Skifting av pære i indikatorinstrument

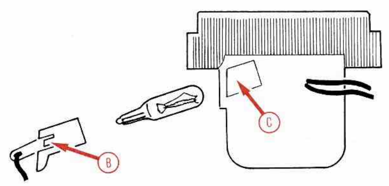



Fig. 12. Skifting av pære i indikatorinstrument.

- Ta av apparatets topp-plate.
- Frigjør indikatorinstrumentet fra plastklammeret.
- Snu instrumentet opp ned.
- Press ned sperrehaken (B) som er synlig i åpningen (C) og trekk lampeholderen forsiktig ut.
- Skift pære og monter sammen.

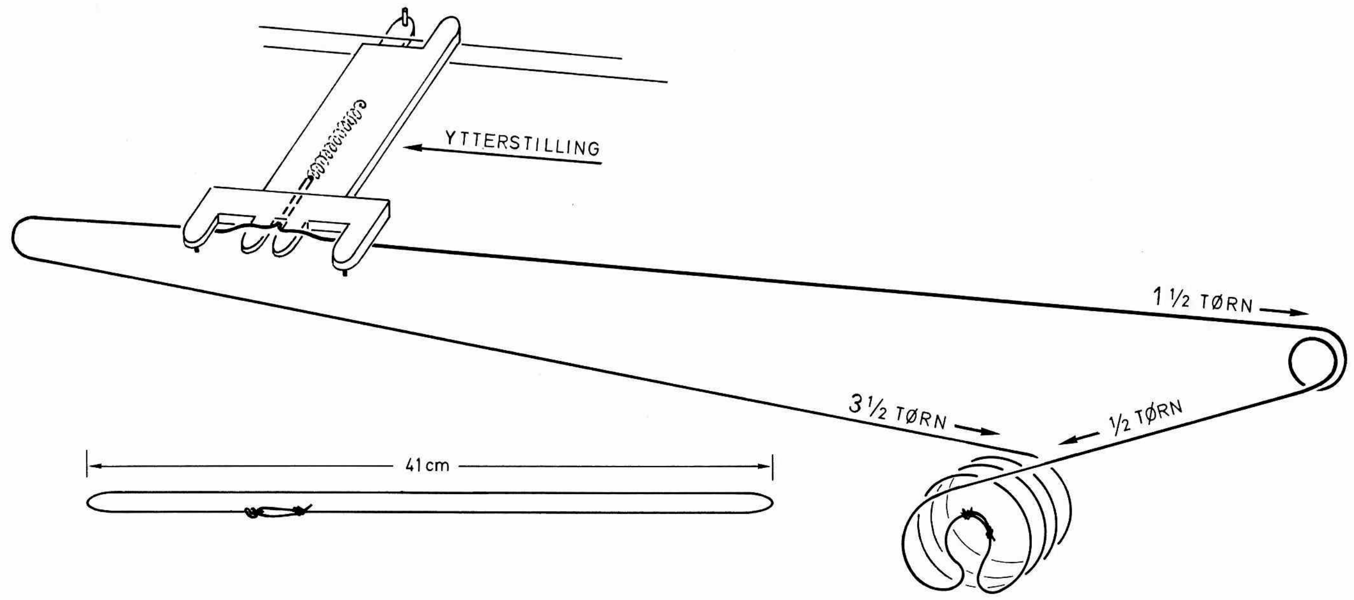



Fig. 13. Snortrekk, AM.

# Tekniske data, radio og forsterkerdel

**Driftsspenning:** 115 V, 230 V 50 Hz
**Effektforbruk:** 16—120 W
**Tilkoplingskont. (DIN):**
**Antenner:** AM/jord, FM
**Kassettspiller:** 1
**Båndopptaker:** 1 (tape monitor)
**Mikrofoner:** 1
**Hodetelefoner:** 2 stereo
**Platespiller:** Innebygget

## AM-del:

**Frekvensbånd LB:** 148—270 kHz
**MB:** 515—1630 kHz
**Følsomhet (IHFM) LB:** 25—40 µV
**MB:** 20—60 µV
**Speilfrekvensdemping LB:** 70—80 dB
**MB:** 40—60 dB
**9 kHz selektivitet:** 45 dB

## FM-del:

**Frekvensområde:** 87—104 MHz
**Følsomhet v/26 dB signal/støy (DIN):** 0,7 µV/75 ohm
1,4 µV/300 ohm
**Følsomhet v/30 dB signal/støy (IHFM):**
1,4 µV/300 ohm
**Signal/støy v/1 mV antenne sp. Lin. (DIN):**
61 dB mono
56 dB stereo
**Signal/støy v/1 mV antenne sp. Lin. (IHFM):**
66 dB mono
60 dB stereo
**Klirr (DIN):** 0,2 %
**(IHFM):** 0,4 %
**MF-demping (IHFM):** 96 dB
**Begrensning (÷ 3 dB):** 0,45 µV/75 ohm
0,9 µV/300 ohm
**Muting sperrenivå:** 2—4 µV/300 ohm
**Capture ratio:** 1,9 dB
**Kanalseparasjon:** 35 dB v/1000 Hz
**Pilottondemping (DIN):** 34 dB
**38 kHz demping (DIN):** 36 dB

## Lavfrekvens-del:

**Nominell utgangseffekt v/0,5 % klirr ved 1 kHz:**
2 x 20 W/4 ohm
2 x 15 W/8 ohm
**Musikkeffekt v/1 % klirr, 1 kHz, 4 ohm:** 2 x 35 W
**Klirr 1 dB under nom. utg. effekt:** 0,3 %
**Intermodulasjon v/nom. utg.effekt:** 1 %
**Effektbåndbredde 1 % klirr v/4 ohm:** 20—20 000 Hz
**Dempingsfaktor:** 20 v/4 ohm
40 v/8 ohm
**Frekvensområde, lin. inng.:** ± 1,5 dB 20—25 000 Hz
**Kontinuerlig bassregulering:** ± 13 dB v/50 Hz
**Fysiologisk basshevning:** + 9 dB v/50 Hz
**Ekstra basshevning:** + 12 dB v/50 Hz
**Rumblefilter:** ÷ 3 dB v/80 Hz
÷ 15 dB v/40 Hz
**Kontinuerlig diskantregulering:** ± 13 dB v/15 000 Hz
**Fysiologisk diskanthevning:** + 4 dB v/15 000 Hz
**Kanalseparasjon v/1 kHz:** Bedre enn 42 dB
**Overhøring mellom innganger v/1 kHz:**
Bedre enn 68 dB
**Signal/støy v/50 mW/4 ohm:** Bedre enn 60 dB

**Innganger:**

| Inngang | Følsomhet | Max. spenning | Impedans |
|---|---|---|---|
| Pickup | 3 mV | 55 mV | 47 kohm |
| Cass | 250 mV | 3,2 V | 30 kohm |
| Tape | 250 mV | 3,2 V | 30 kohm |

**Utganger:**

| Utgang | Utgangs-nivå | Utgangs-impedans | Tilkoplings-impedans |
|---|---|---|---|
| Høyttaler | 9,7 V | 0,19 ohm | 4 ohm |
| Hodetelefon | 9,7 V | 47 ohm | > 8 ohm |
| Tape/Cass. | 100 mV | 47 kohm | 47 kohm |

047593

Rett til endringer forbeholdes.

Reclamo

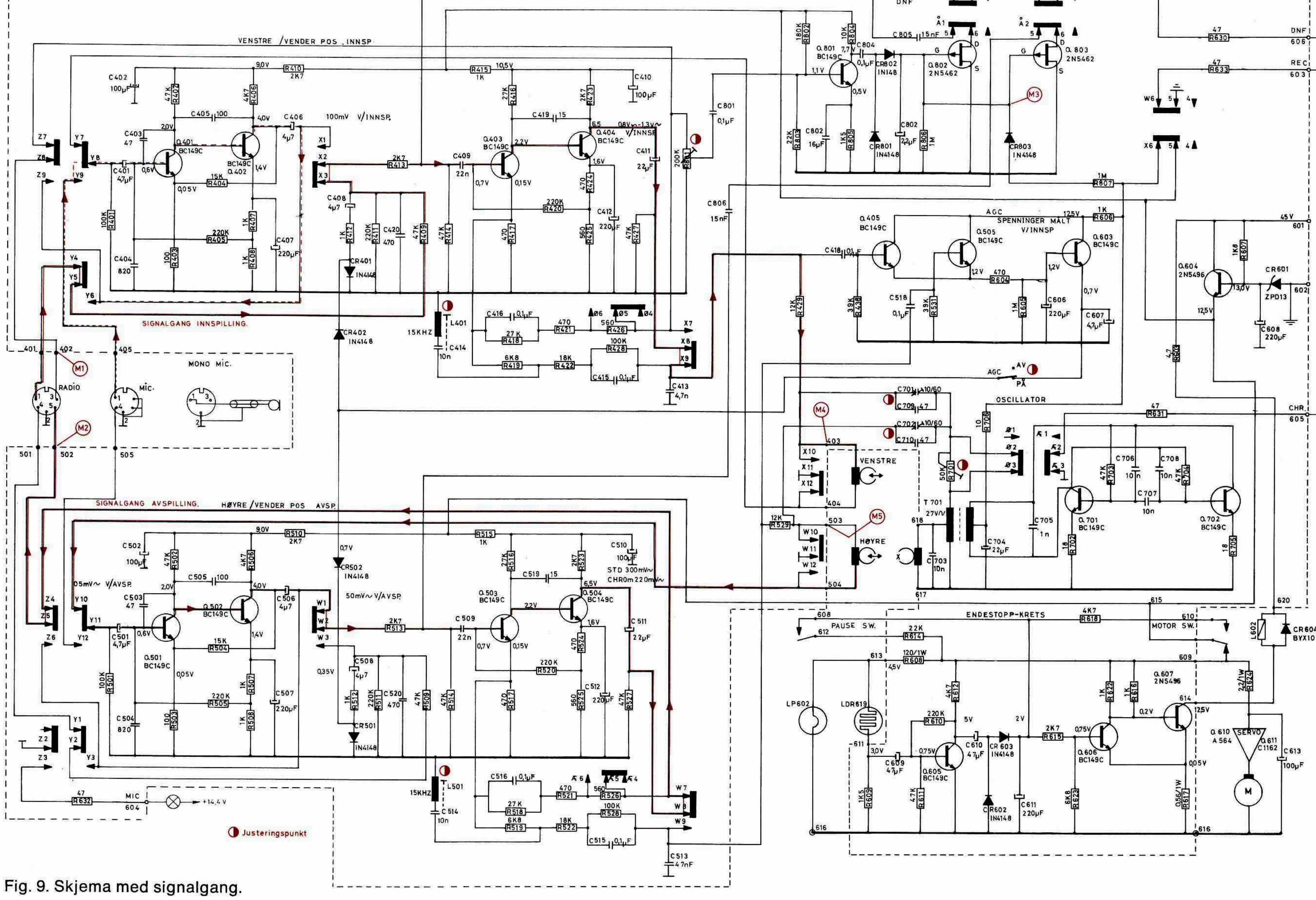


Fig. 9. Skjema med signalgang.

- Hvis frekvensgangen er feil må bias justeres.
  Høyere biasspenning vil gi lavere 14 kHz-nivå. Hvis bias justeres for chrombånd, må man kontrollere at biasspenningen for standardbånd er riktig (÷ 2,5 dB), se foregående avsnitt.
- AGC-innkoples.

## Justering av innspillingskorreksjon

- Slå av AGC-vender, se fig. 10.
- Stopp oscillatoren ved å lodde løs det ene benet til R 706.
- Tilfør signal 15 kHz, 5 mV til pin 1/4 på DIN-kontakt.
- Rørvoltmeter tilkoples pkt. 403/503, (M4)/(M5).
- Justér L 401/L 501 til maks.spenning.
- AGC-innkoples.

## Klirr, signal/støy og slukking

- Spill inn signal 1 kHz, 160 mV (0 dB) på pin 1/4 på DIN-kontakt.
- Klirrmeter tilkoples utgangen.
- Kjør tilbake og og visk ut siste halvdel.
- Kjør tilbake og spill av.
- Avles klirr, < 3 ‰.
- Mål signal/støyforhold (45-50 dB, uveiet RMS).
- Slukking kontrolleres ved lytteprøve, rest av 1000 Hz signalet skal være kraftig dempet.
  (Slukkingen kan også måles selektivt, > 68 dB).

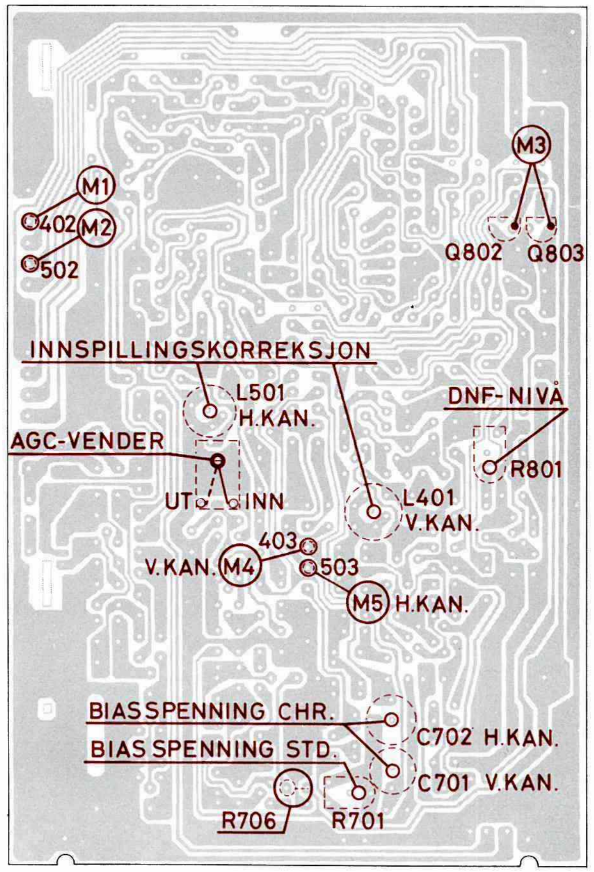
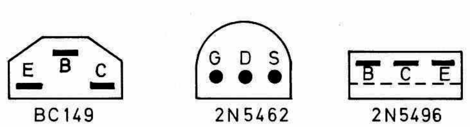



Fig. 10. Trimme- og målepunkter.

VENDERE

| | | |
|---|---|---|
| Vender | W og X: | Inn/avsp.-vender. |
| | Y og Z: | Mikrofonvender. |
| | Æ og Ø: | CHR-STD-vender. |
| | Å1 og Å2: | DNF-filter. |

TRANSISTORER SETT FRA UNDERSIDEN




**DYNAMISK STØYFILTER (DNF), VIRKEMÅTE**

Under avspilling taes en del av signalet fra venstre kanal via potmeter R801. Dette signalet forsterkes kraftig i Q801, likerettes deretter i CR801/CR802 og lader opp kondensator C802.
Denne likespenningen styrer to felteffekttransistorer Q802 og Q803.
Ved svake avspilte signaler vil spenningen på «gatene» være så lav at Q802/Q803 leder. C805 og C806 er derved koplet til jord over transistorene og forårsaker et fall på 6 dB/oktav for frekvenser høyere enn 4 kHz på inngangen til korreksjonsforsterkerne.
Ved kraftige avspilte signaler vil spenningen på «gatene» bli så høy at Q802/Q803 slutter helt å lede og diskantkuttet opphører.
Inn- og utkopling skjer ved ca. + 3,0 V på «gatene».
Ved innspilling holdes «gatene» positive via CR803 og R807 for å unngå diskantkutt ved innspilling.

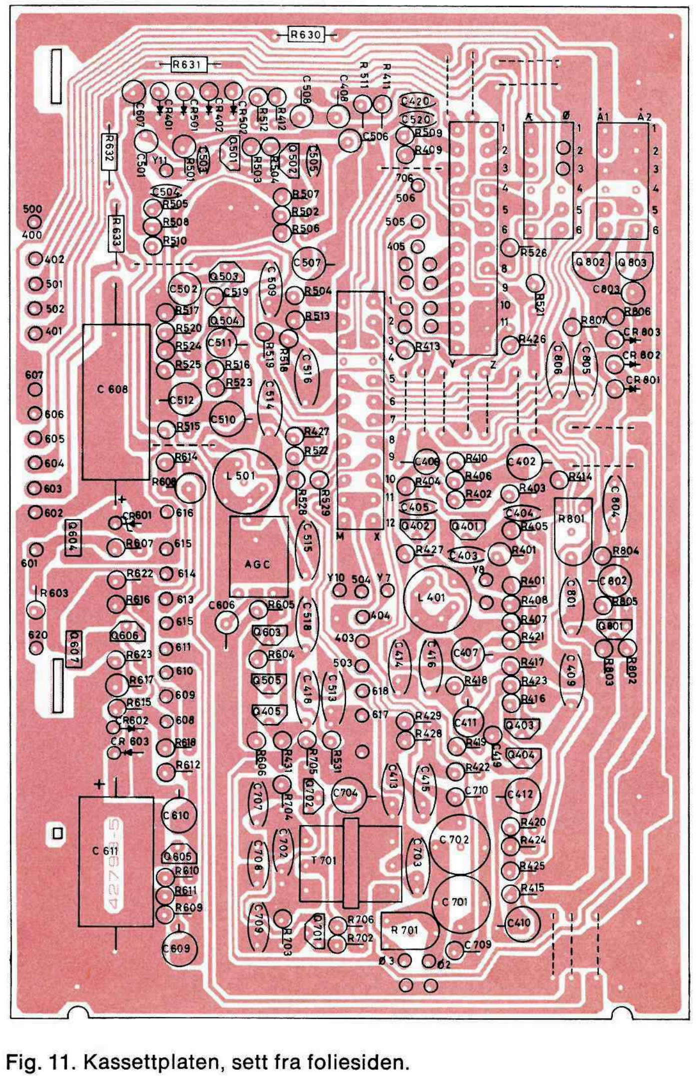


Fig. 11. Kassettplaten, sett fra foliesiden.

**ENDESTOPPKRETS, VIRKEMÅTE**

På samme aksel som telleverket er det montert en vifte som alltid roterer når lydbåndet beveger seg.
Viften roterer mellom en lampe LP602, og en fotomotstand, LDR619, og frembringer derved en vekselspenning over fotomotstanden.
Denne vekselspenningen forsterkes i Q605 og likerettes til en likespenning over C611. Spenningen over C611 bringer Q606 i metning, hvilket medfører at Q607 bringes i "cut off".
Når båndet kommer til enden vil viften stoppe, vekselspenningen over fotomotstanden forsvinner, og C611 lades ut via R615.
Etter ca. 5 s vil Q606 bringes til "cut off" og Q607 vil lede kraftig. Trekkmagneten L602 opereres og kassetten løses ut.
For at kassetten ikke skal løses ut i «PAUSE», sørger pausebryteren og R614 for at en spenning fortsatt blir liggende over C611.
Via hovedbryteren og R618 vil C611 holdes oppladet også når kassetten er avslått. Ellers ville kassetten løses ut ved start.

# Service-forskrift

RADIONETTE

**SM 340 GC**

# KASSETT-DELEN

# Tekniske data

| | |
|---|---|
| **System** | 4 spor, 2 kanaler, stereo |
| **Antall motorer** | 1 |
| **Båndhastighet** | 4,75 cm/s ($1^{7}/_{8}$″/s) |
| **Hastighetsavvik** | $< \pm 1\,\%$ |
| **Wow og flutter** | $< 0{,}2\,\%$ |
| **Spilletid** | Max. 90 min. C90 |
| **Tid - fremspoling** | $<$ 100 s. C60 |
| **Tid - tilbakespoling** | $<$ 100 s. C60 |
| **Momentstopp** | Ja |
| **Automatisk endestopp** | Ja |

| | |
|---|---|
| **Telleverk** | 3-sifret |
| **Antall hoder** | 2 |
| **Inngangskontakter** | Mikrofon 2 kanal DIN |
| **Kassett-typer** | C30, C60, C90 |
| **Frekvensområde, chrome** | $\pm$ 3 dB 35-14000 Hz |
| **Frekvensområde STD** | $\pm$ 3 dB 35-12000 Hz |
| **Kanalseparasjon** | $>$ 30 dB |
| **Signal/støy mono** | 50 dB DIN |
| **Viske - formagn. frekv.** | 85 kHz |
| **Viske - demping** | 65 dB |
| **AGC regulering** | $>$ 30 dB |
| **Spesielle egenskaper** | Dyn. støyfilter DNF<br>Chrome-vender |

# Servicearbeid på kassettdelen

**Husk! Platespilleren må sikres slik at skade ikke oppstår mens servicearbeid pågår**

Justering av bias-spenning, AGC, DNF og avspillerkurve kan foretas fra apparatets underside ved å fjerne bunndekslet. 3 skruer i forkant og 3 i bakkant, fig, 1, løses, og bunndekslet kan deretter tas av.
For justering av motorhastighet, lydhoder og utskifting av komponenter, må kassettdelen utmonteres.

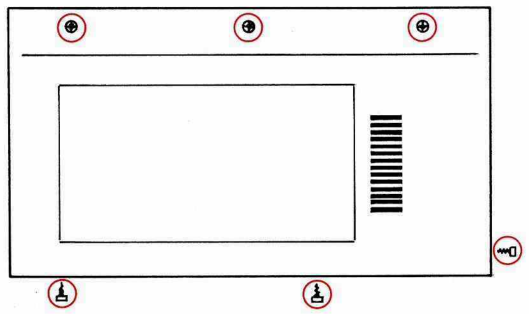


Fig. 1. Demontering av bunndekslet.

## Utmontering av kassett-del ved service

Ved feil på kassett-delen i SM 340 GC, kan denne tas ut for service uten at dette berører apparatets øvrige funksjoner. For å unngå skader på støvdekslet bør dette først demonteres.

**Utmontering** (se figur 2)
Utmontering foretas ved å skru ut de fire festeskruene (A) Løft opp kassettdelen bak og skyv enheten bakover til den blir frigjort i fronten.
Trekk ut DIN-pluggen på apparatets bakside. For å få frigjort DIN-kabelen er det nødvendig å skru opp bakre høyre skrue (B) i hovedsjassiets topp-plate og løfte denne litt opp. Løs de to rekkekontaktene på kassettplaten, og kassetten er derved fri.

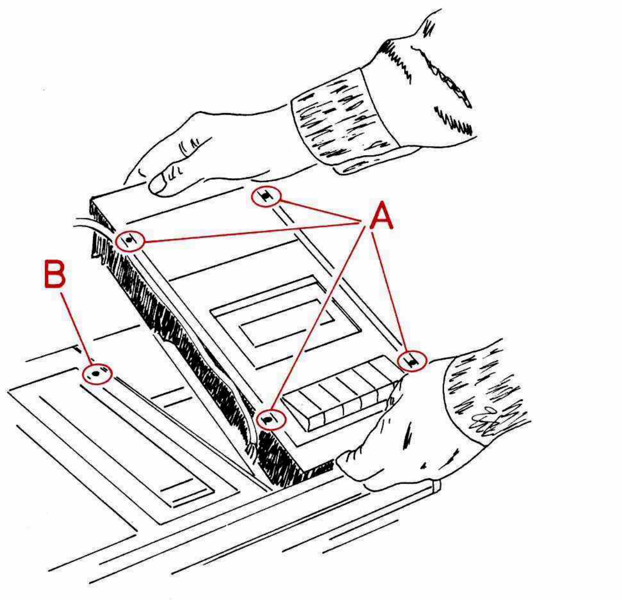



Fig. 2. Utmontering av kassettdelen.

**Testing**

Testing av kassettdelen kan foretas med sine ordinære tilkoplinger eller med følgende ytre tilkoplinger:

**Driftsspenning:** +spenning (30–45 V likespenning) tilkoples pin. 601.
÷ koples til pin. 602.

**Signal inn/ut:** Kassettdelens DIN-plugg.
Kan tilkoples radio/forsterker.

**Signal MIC:** Pin 405 (V) og pin. 505 (H).

**Merk:** Ved testing av utmontert kassettdel må signal-jord og spenning-jord forbindes (pin. 500 (400) og pin. 602).

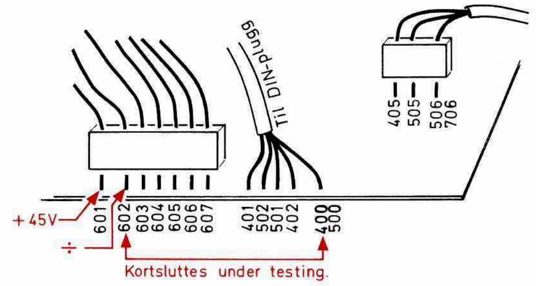



Fig. 3. Tilkoplinger på kassettdelen ved testing.

**Montering**

Opphev event. kortslutning (500/400 til 602).
Montering skjer i omvendt rekkefølge som utmontering.
Pass på at ledninger ikke kommer i klem, og at knapper opererer normalt.

## Videre demontering

For service på tryktkretsplatens komponentside og kassettdelens underside, følg nedenstående fremgangsmåte for demontering (fig. 4 og 5).
For service på kassettdelens overside, følg fremgangsmåten beskrevet i neste avsnitt (fig. 6).

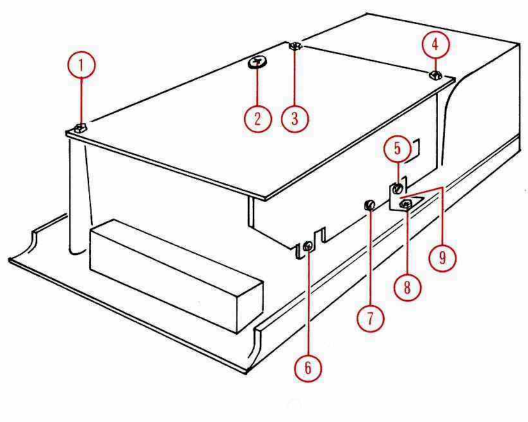



Fig. 4. Demontering av tryktkretsplate.

**Demontering av tryktkretsplate**

- Skru opp skruene (1–8) og fjern vinkelen (9), se figur 4.
- Vipp opp tryktkretsplaten, og sett den i servicestilling (to hull i kjøleplaten passer med to tapper på kabinettet, se figur 5).
- I denne stillingen kan kassettdelen kjøres og feilsøkes.
- Etter montering, pass på at vippearmen for inn/avspillingsvenderen fungerer riktig, og at rekkekontaktene sitter på plass.

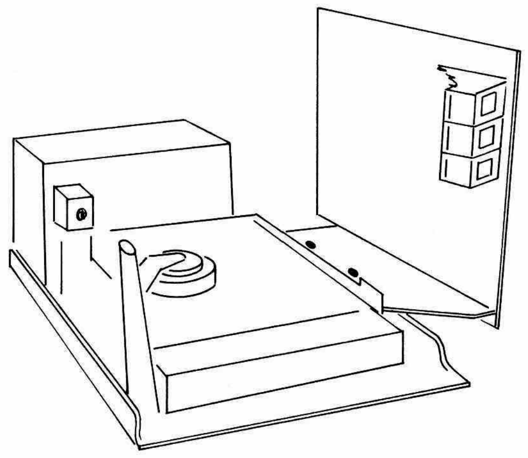


Fig. 5. Tryktkretsplaten i servicestilling.

**Utmontering av kassettverket**

- Skru ut skruene 1–7 pluss festeskruene 8–9 som holder mikrobryteren for pausefunksjon.
Kassettverket kan nå tas ut.
- I denne tilstand kan også kassettdelens funksjoner testes med spenning, bortsett fra pausefunksjonen og endestoppfunksjonen som er avhengig av mikrobryteren.

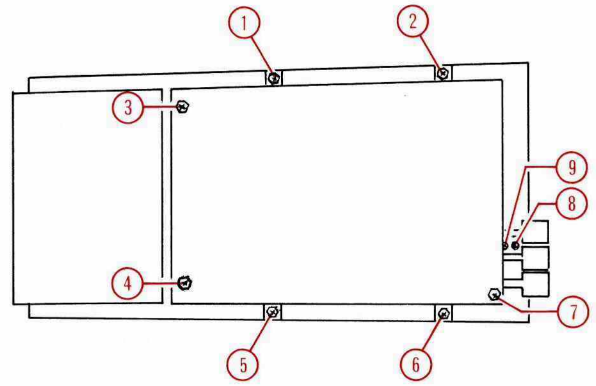



Fig. 6. Utmontering av kassettverket.

# Elektriske justeringer

Avmagnetisér og rens hoder og båndløp.
Trimme- og målepunkter, se fig. 10.

## Motorhastighet

- Spill av et testbånd med en bestemt, nøyaktig frekvens (Tandberg testbånd nr. 21, 1000 Hz).
- Frekvensteller tilkoples utgangen (M 1).
- Kontrollér at telleren viser det avspilte bånds frekvens.
- Hastigheten kan justeres med et trimmepotensiometer gjennom hullet i toppen av motoren, se fig. 7.

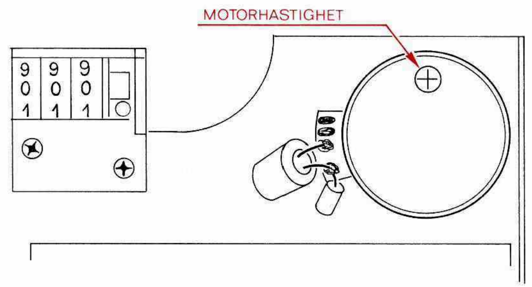



Fig. 7. Justering av motorhastighet.

## Azimuth (hodevinkel)

Kontrollér først visuelt at båndet går riktig i båndløpet.

- Rørvoltmeter tilkoples utgangene (M 1) og (M 2).
- Spill av azimuth-kassett 6,3 kHz.
(Tandberg testbånd nr. 23) eller 10 kHz.
- Justér hodevinkelen (se fig. 8) til maksimalt signal oppnås på utgangene.
- Kanalforskjell maks. 3 dB.
- Kontrollér DNF-funksjon, se neste avsnitt.

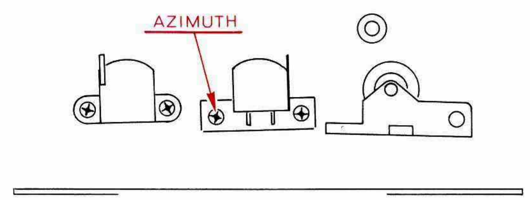



Fig. 8. Justering av azimuth (hodevinkel).

## Kontroll av DNF-funksjon

- Azimuthkassett avspilles.
- Trykk inn DNF-vender. Signalet på utgangene skal da falle: 5,5 dB ved 6,3 kHz.
8 dB ved 10 kHz.

## Justering av DNF-innkoplingsnivå

- Spill av nivåkassett (Tandberg testbånd nr. 24).
- DC-spenningen på gate Q 802/Q 803 (M3) justeres med R 801 til 9,5 volt.

## Kontroll av avspillerkurve

- Spill av et testbånd, avspillerkurve (Tandberg testbånd avspillerkurve 400-50-5000-10000 Hz).
- Utløs DNF-vender.
- Rørvoltmeter tilkoples utgangene (M1) og (M2).
- Bruk 333-1000 Hz (400 Hz) som referanse og kontrollér at utgangsspenningene ligger innenfor $\pm$ 3 dB.

## Innspilling, forhåndsinnstilling av bias-spenning

- Kontrollér med frekvensteller at bias-frekvensen ligger mellom 80 og 90 kHz.
- Sett apparatet i innspilling.
- Trykk inn CHR-vender.
- Med et høyohmig, lavkapasitets voltmeter tilkoplet pkt. 403 (M4) og pkt. 503 (M5) justeres C 701/C 702 til spenningen er 15 volt.
- Utløs CHR-vender (stilling standardbånd).
- Spenningen skal da falle fra 15 til 11 volt (2,5 dB). Dette nivået kan reguleres med R 701.

## Innspilling, frekvensgang

- Slå av AGC-vender, se fig. 10.
- Trykk inn CHR-vender.
- Rørvoltmeter tilkoples utgangene (M1) og (M2).
- Spill inn på chrom-kassett 40 Hz, 400 Hz og 14000 Hz, nivå 5 mV fra generator.
- Spol tilbake og spill av.
- Kontrollér at utgangsspenningene holder følgende toleranser:
40 Hz: ÷ 6 db.
400 Hz: 0 db.
14 kHz: $\pm$ 4 dB.
Kanalforskjell: 3 dB.

## Demontering av deler på drivverk

### Svinghjul

Fjern svinghjulsholder (88). Ta sikringsring på aksel for opptrekksenhet (86) og fjern opptrekkshjul. Svinghjulet kan deretter trekkes ut av lageret.

### Drivrem

Denne kan skiftes når skruene på svinghjulsholder (88) er løsnet.

### Kassett-holder

Fire skruer for sidebrakett, høyre (33) løsnes, og etter at øvre sikringsring for låseplate (38) er tatt av, kan kassettholderen fjernes.

### Pressvalse.

Etter at sikringsring på pressvalsarm er fjernet, kan armen med pressvalse tas ut. Pressvalsen er fast montert på pressvalsarmen, og kan således ikke fjernes.

### Lydhoder

OBS! Etter utskifting må det foretas azimuth-justering.

## Mekaniske justeringer

### Pressvals-trykk (375–425 g)

Hvis dette trykk ikke kan oppnås, justér fjærens posisjon eller skift den ut.

### Opptrekkskraft (40–75 g cm)[1]

Hvis opptrekket er utilstrekkelig, rens gummibanene med sprit, skift opptrekksenhet (86) eller stram fjær for opptrekksarm (87). Noen dråper rødsprit på opptrekksfilt vil også øke opptrekket noe.

### Fremspolingskraft (mer enn 75 g cm)[1]

Hvis tilstrekkelig kraft ikke oppnås:

a) Rens gummibanen på høyre spoletallerken, eller evt. skift tallerkenen.
b) Rens fremspolingshjul og drev eller skift fremspolingsenhet (100).
c) Rens svinghjul og drivrem.
d) Bend armen (A) vist i fig. 12 for å øke fjærtrykket.

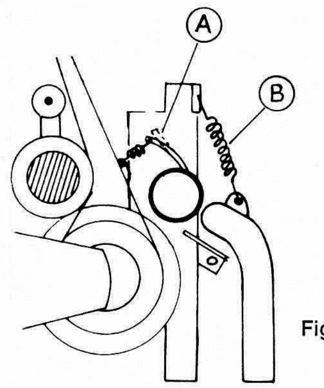



Fig. 12. Mekaniske justeringer.

### Tilbakespolingskraft (mer enn 70 g cm)[1]

Hvis tilstrekkelig kraft ikke oppnås:

a) Rens gummibanen på venstre spoletallerken.
b) Rens tilbakespolingshjulets gummi.
c) Rens svinghjul og drivrem.
d) Kutt ca. 6 vindinger av fjæren (B) vist i fig. 12 for å øke fjærtrykket.

[1]) Måles med opptrekkskassett.

### Utløsningsmekanismen

Hvis det er for stor motstand i overføringen fra utløsningsmagneten til kassettholderen, vil magneten ikke kunne operere. Hvis dette er tilfelle, kontrollér følgende:

a) At sleideplaten (34) beveger seg lett og går tilbake til nøytral posisjon.
b) At det er molybdén smøremiddel på alle friksjonspunkter.
c) At magneten ikke sitter for langt tilbake, evt. justér.
d) Om låsefjæren (57) ikke er for stram, evt. slakk den ved å strekke den litt.
e) Om kassettholderen må helt ned for at låseplaten (38) går i låsestilling, i så fall kan fliken på låseplaten bøyes litt for at den skal operere lettere.

### Rengjøring

Lydhoder og gummibaner etc. gjøres lettest rent med renset bensin og Q-tips, bomullspinner eller lign. (Q-tips fås kjøpt på apotek).

### Smøring

Molypan eller lign. brukes på utløsningsmekanisme og tastaturmekanikk. Forøvrig kan tynn motorolje eller symaskinolje benyttes. Merk: Smør kun i svært små mengder, og ikke slik at det kan komme olje på gummibaner eller drivrem.

## Wow og flutter

Hvis det oppstår "Wow og flutter", kontrollér følgende punkter. I det tilfellet at feilen ligger i en roterende del, fremkommer hastigheten av wow og flutter i takt med denne del. Spill derfor av en kassett med 3000 Hz tone for å undersøke dette.

| Symptom: | Defekt del: | Utbedring: |
|---|---|---|
| Ujevn gange. | | Rens hoder og båndløp. |
| Vibrasjon i capstan-aksel. | Capstan. | Skift svinghjul. |
| Svinghjul går tregt. | Svinghjul. | Justér, rens eller smør svinghjulsholder evt. skift. Rens svinghjulets kant. |
| Ujevn gange.<br>Fremmede partikler i gummibanen.<br>Feil vinkel.<br>Utilstrekkelig trykk. | Pressvalse. | Skift pressvalse.<br>Rens gummibanen.<br>Justér til parallell med capstan.<br>Justér fjær. |
| Vibrasjoner i drivrem, skitten eller glatt rem. | Drivrem. | Rens eller skift drivrem. |
| Ujevn friksjon. | Avløpende brems. | Demontér og smør avløpende spole |
| Vibrasjoner i motoraksel.<br>Skitt i remskive. | Motor. | Skift motor.<br>Rens. |

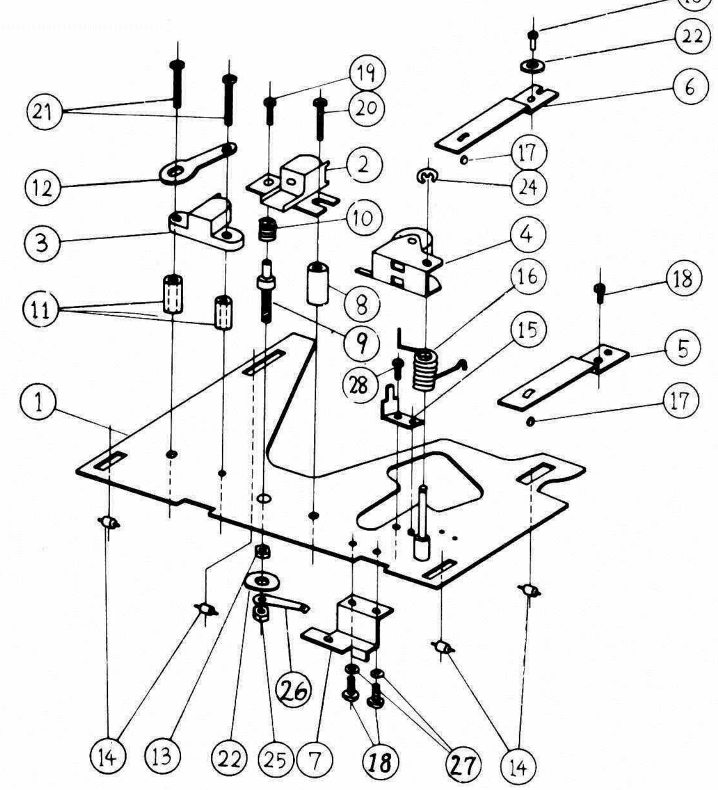


Fig. 13. Mekaniske deler.

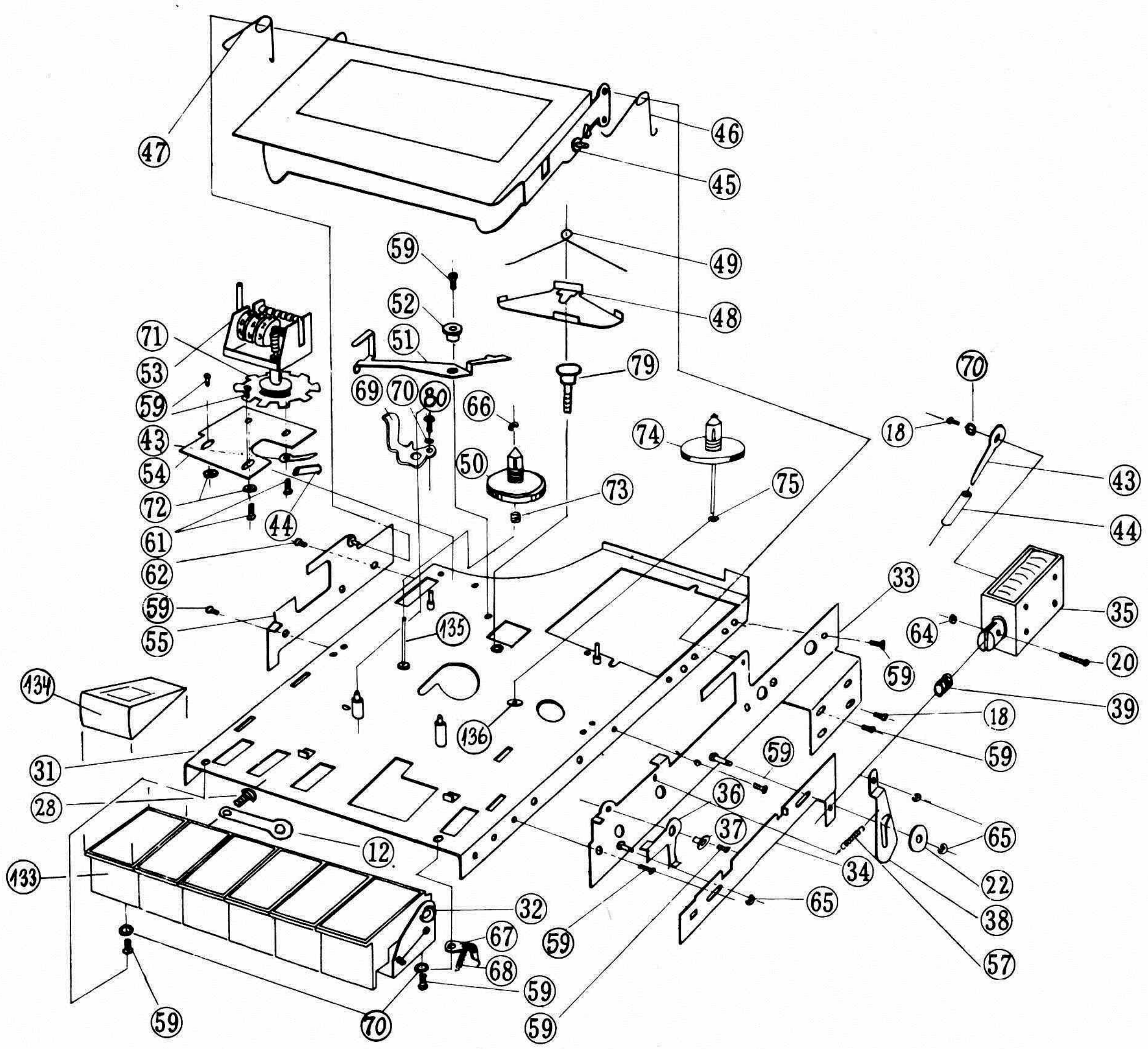


Fig. 14. Mekaniske deler.

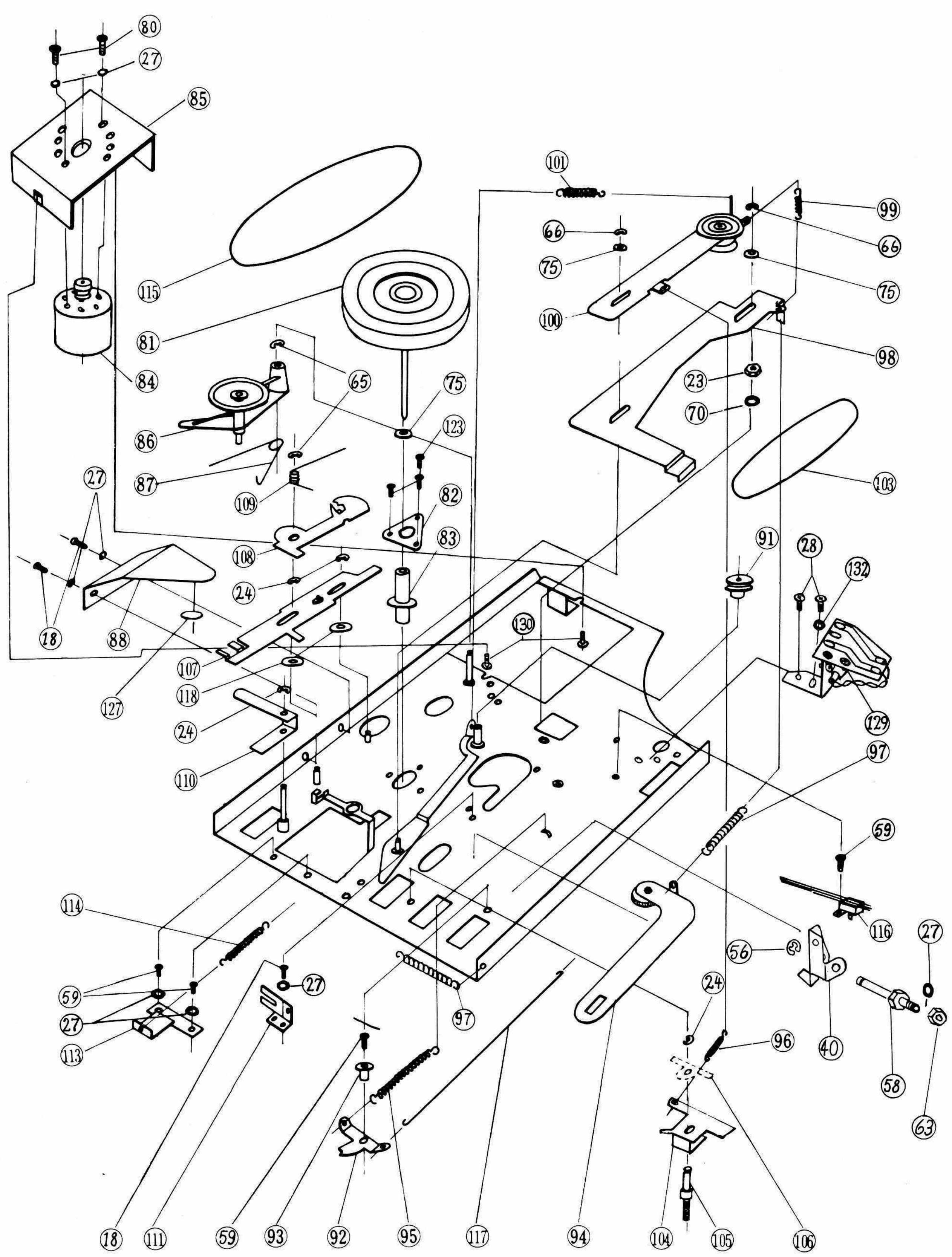


Fig. 15. Mekaniske deler.

## Mekaniske deler, drivverk

| Pos. nr. | Beskrivelse | Vare nr. |
|---|---|---|
| 1 | Lydhodeplate | 76-27-01 |
| 2 | Lydhode | 76-27-02 |
| 3 | Viskehode | 76-27-03 |
| 4 | Trykkvalsarm kompl. | 76-27-04 |
| 5 | Høyre fjær for lydhodeplate | 76-27-05 |
| 6 | Venstre fjær for lydhodeplate | 76-27-06 |
| 7 | Vinkel for lydhodeplate | 76-27-07 |
| 8 | Avstandstykke for lydhode | 76-27-08 |
| 9 | Justeringsstykke for lydhode | 76-27-09 |
| 10 | Justeringsfjær for lydhode | 76-27-10 |
| 11 | Avstandsstykke for viskehode | 76-27-11 |
| 12 | Loddeøre | 76-27-12 |
| 13 | Spesialmutter | 76-27-13 |
| 14 | Rulle for lydhodeplate | 76-27-14 |
| 15 | Stoppvinkel for trykkvalsarm | 76-27-15 |
| 16 | Trykkvalsfjær | 76-27-16 |
| 17 | Stålkule | 76-27-17 |
| 18 | Mask.skrue M 2,6 x 4 pan pos | 76-27-18 |
| 19 | Mask.skrue M 2,6 x 8 pan pos | 76-27-19 |
| 20 | Mask.skrue M 2 x 12 pan pos | 76-27-20 |
| 21 | Mask.skrue M 2 x 14 pan pos | 76-27-21 |
| 22 | Jernskive | 76-27-22 |
| 23 | Mutter M 2,6 | 76-27-23 |
| 24 | Sikringsring Ø 2 mm | 76-27-24 |
| 25 | Mutter M 2,6 | 76-27-25 |
| 26 | Fjærplate | 76-27-26 |
| 27 | Sprengskive Ø 2,6 | 50-75-28 |
| 28 | Maskinskrue M 2 x 3 pan pos | 50-42-03 |
| 31 | Chassis | 76-27-31 |
| 32 | Tastatur | 76-27-32 |
| 33 | Høyre sidebrakett | 76-27-33 |
| 34 | Sleideplate | 76-27-34 |
| 35 | Trekkmagnet | 76-27-35 |
| 36 | Vippearm | 76-27-36 |
| 37 | Styring | 76-27-37 |
| 38 | Låseplate | 76-27-38 |
| 39 | Fjær for magnet | 76-27-39 |
| 40 | Opptaksarm | 76-26-53 |
| 43 | Ledningsklemme | 76-27-43 |
| 44 | Plastikstrømpe, sort Ø 4 x 20 mm | 76-27-44 |
| 45 | Kassett-holder | 76-27-45 |
| 46 | Høyre fjær for kassettholder | 76-27-46 |
| 47 | Venstre fjær for kassettholder | 76-27-47 |
| 48 | Bremsearm | 76-27-48 |
| 49 | Fjær for bremsearm | 76-27-49 |
| 50 | Avløpende spoletallerken | 76-27-50 |
| 51 | Opptakssperre | 76-27-51 |
| 52 | Lager for opptakssperre | 76-27-52 |
| 53 | Telleverk | 76-27-53 |
| 54 | Telleverksbrakett | 76-27-54 |
| 55 | Venstre sidebrakett | 76-27-55 |
| 56 | Sikring 3 mm | 50-76-29 |
| 57 | Fjær for låseplate | 76-27-57 |
| 58 | Aksel for opptaksarm | 76-27-59 |
| 59 | Maskinskrue M 2,6 x 6 pan pos | 76-27-59 |
| 61 | Maskinskrue M 3 x 4 pan pos | 76-27-61 |
| 62 | Maskinskrue M 3 x 6 pan pos | 76-27-62 |
| 63 | Mutter M 2,6 | 76-27-25 |
| 64 | Mutter M 2 | 50-94-20 |
| 65 | Sikringsring 2 mm | 50-76-20 |
| 66 | Sikringsring 1,5 mm | 50-76-15 |
| 67 | Fjærfeste | 76-27-67 |
| 68 | Fjær for pausearm | 76-27-68 |
| 69 | Kassettstyring | 76-27-69 |
| 70 | Sprengskive 2,6 mm | 76-27-70 |
| 71 | Telleverkshjul | 76-27-71 |
| 72 | Avstandsskive | 76-27-72 |
| 73 | Fjær for avløpende spole | 76-27-73 |
| 74 | Påløpende spole | 76-27-74 |
| 75 | Nylonskive | 76-27-75 |
| 79 | Aksel for bremsearm | 76-27-79 |
| 80 | Maskinskrue M 2,6 x 3 pan pos | 76-27-80 |

| Pos. nr. | Beskrivelse | Vare nr. |
|---|---|---|
| 81 | Svinghjul | 76-27-81 |
| 82 | Låseplate | 76-27-82 |
| 83 | Svinghjulslager | 76-27-83 |
| 84 | Motor komplett | 76-27-84 |
| 85 | Motorbrakett | 76-27-85 |
| 86 | Opptrekksenhet | 76-27-86 |
| 87 | Fjær for opptrekksarm | 76-27-87 |
| 88 | Svinghjulsholder | 76-27-88 |
| 91 | Remskive for telleverk | 76-27-91 |
| 92 | Opptakslås | 76-27-92 |
| 93 | Lager for opptakslås | 76-27-93 |
| 94 | Tilbakespolingsarm | 76-27-94 |
| 95 | Fjær for opptakslås | 76-27-95 |
| 96 | Fjær for fremspolingslås | 76-27-96 |
| 97 | Fjær for tastatur og tilbakespoling | 76-27-98 |
| 98 | Bremsesleide | 76-27-98 |
| 99 | Fjær for fremspolingsarm | 76-27-99 |
| 100 | Fremspolingsarm | 76-28-00 |
| 101 | Koplingsfjær for fremspolingsarm | 76-28-01 |
| 103 | Telleverksrem | 76-28-03 |
| 104 | Fremspolingslås | 76-28-04 |
| 105 | Aksel for fremspolingslås | 76-28-05 |
| 106 | Stopper (kun på enkelte chassis) | 76-28-06 |
| 107 | Pausearm | 76-28-07 |
| 108 | Låsearm | 76-28-08 |
| 109 | Låsefjær | 76-28-09 |
| 110 | Vriarm | 76-28-10 |
| 111 | Styregaffel | 76-28-11 |
| 113 | Fjærbrakett | 76-28-13 |
| 114 | Fjær for lydhodeplate | 76-28-14 |
| 115 | Drivrem | 76-28-15 |
| 116 | Hovedbryter | 76-28-16 |
| 117 | Stang for opptakssperre | 76-28-17 |
| 118 | Skive | 76-28-18 |
| 123 | Maskinskrue M 2 x 6 pan pos | 76-28-23 |
| 127 | Lagerskive | 76-28-27 |
| 129 | Fotocelleenhet | 76-26-59 |
| 130 | Maskinskrue M 2,6 x 10 pan pos | 76-28-30 |
| 131 | Maskinskrue M 2,6 x 6 pan pos | 76-28-31 |
| 132 | Sprengskive 2 mm | 50-75-20 |
| 133 | Knapp tastatur | 76-28-32 |
| 134 | Knapp tastatur, limt | 333542 |
| 135 | Aksel venstre spoletallerken | 76-28-36 |
| 136 | Lager høyre spoletallerken | 76-28-37 |

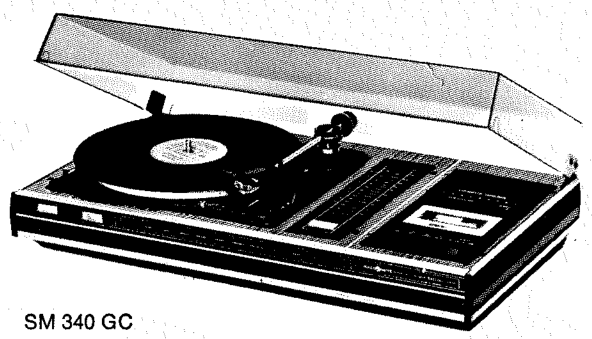
## Diverse

| Partnavn | Part nr. |
|---|---|
| Fjær, EJECT-knapp | 330590 |
| Fjær, magasin | 332271 |
| Fjær, pausebryter | 333952 |
| Fotomotstand/lampe endestopp | 76-26-59 |
| Hode, inn/avspilling | 305138 |
| Hode, viskehode | 76-27-03 |
| Knapp, skyvedeksel | 316208 |
| Knapp, magasin | 319218 |
| Knapp, kassettlokk | 331509 |
| Knapp, MIC, CHR, DNF | 319025 |
| Magasin, kassett | 316639 |
| Motor med styrekrets | 76-27-84 |
| Spole, korreksjon L401/501 | 980168 |
| Trafo oscillator T701 | 980142 |
| Transistor servo 2 SA 564 | 76-28-35 |
| Vender AGC | 330726 |
| Vender inn/avspilling | 318004 |
| Vender front | 319685 |

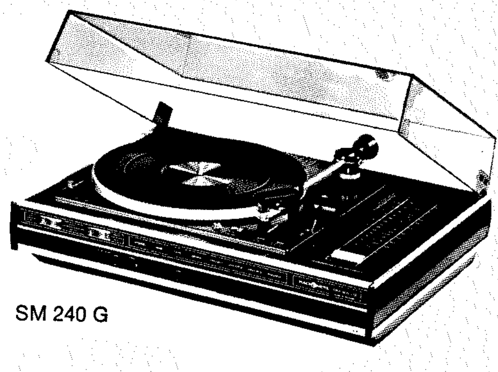
# RADIONETTE

## SM 340 GC, tuner/amplifier and cassette section
## SM 240 G, tuner/amplifier section

# Alignment Instructions



SM 340 GC



SM 240 G

CONTENTS



For all inquiries, please state the set's type and number.

When ordering parts, give the part's order number and description.

RECORD PLAYER For service instructions for the record player, see the service instructions for SM 340GC/SM 240G-RECORD PLAYER.

## Mechanical dismantling

With all servicing the following procedure must be followed to avoid damage to the set.

— The dust cover is susceptible to scratches and should therefore be removed if the set is to be stood on it´s side or head.
— The record player must be secured by screwing up the transport screws and the pick-up arm should be locked. One should also avoid exposing the pick-up arm to any pressure.

To gain access to the main board´s printed side, remove the bottom cover (6 screws on the SM 340GC, 4 screws on the SM 240G).

To gain access to the component side of the board, remove the whole top plate with the record player.

### Removing the top plate

- Secure the record player.
- Unscrew four fixing screws in the corners of the top plate.
- Slide the top plate backwards a little and lift.
- Loosen the signal leads on the main board.
- The top plate with the record player can now taken out and placed as shown in fig. 1.
- When remounting, red signal lead to right channel (pin 35).

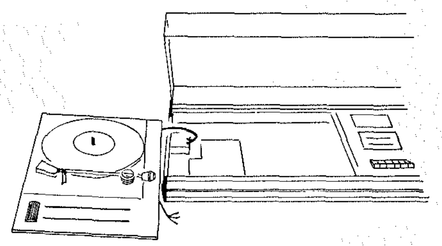


Fig. 1. Top plate dismounted in servicing position.

### Dismounting the record player.

Dismounting of the record player should only be done when necessary. Care must then be taken so that the suspension is not damaged.

#### Dismounting

- Screw up the transport screws a few turns so that they are freed from the chassis plate.

Tilt the screw heads out towards the side of the chassis (see fig. 2) and lift the record player chassis up.

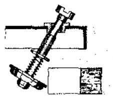


Fig. 2. Freeing the chassis plate.

- Loosen the signal leads from the main board.
- The record player can now be taken out and placed beside the set.
- When remounting, the red signal lead to the right channel (pin 35).

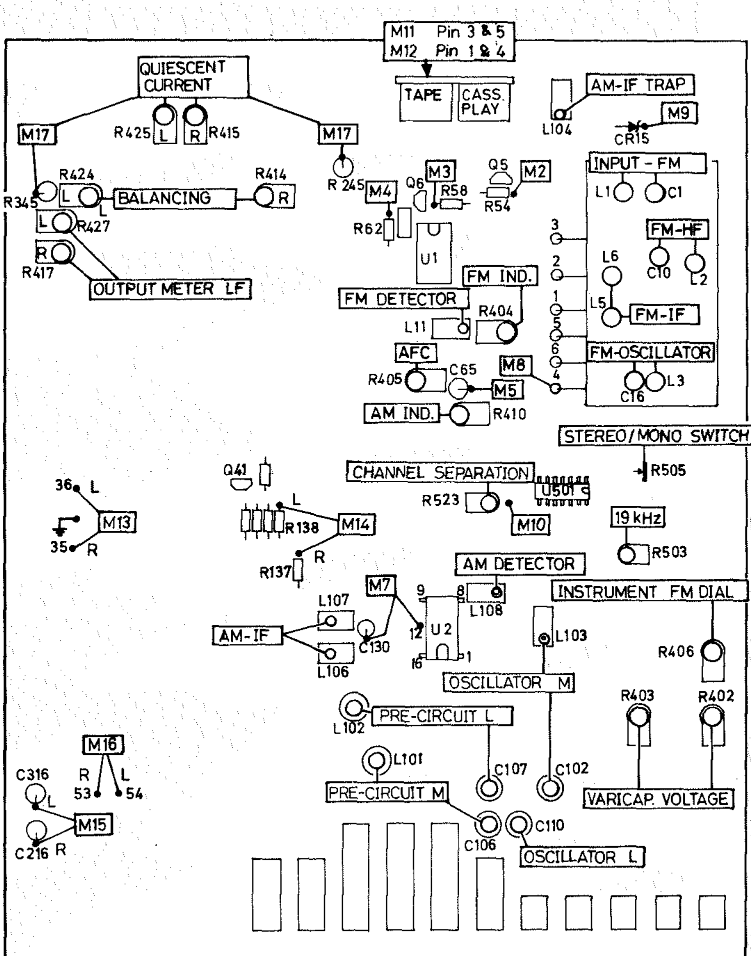



Fig. 3. Test and alignment points.

## Electrical adjustments

### LF SECTION.

Quiescent current

- Set the volume control to minimum.

| Channel | Voltmeter connected across | Adjust | Reading |
|---|---|---|---|
| Right | R245(M 17) | R 415 | 10 mV |
| Left | R345(M 17) | R 425 | 10 mV |

Balancing

- 1 kHz sine signal supplied to TAPE input pin 3 and 5 (M 9).

| Channel | Oscilloscope connected to | Adjust | Reading |
|---|---|---|---|
| Right | Speaker output (M11 ) | R 414 | Symmetrical clipping at full drive 9,7 V RMS in 4 ohms |
| Left | | R 424 | |

# AM - SECTION

## AM-Adjustment procedure

| Circuit | Wave length | Receiver Frequency | Generator Frequency | Generator Applied | Adjust | Output meter | Remarks |
|---|---|---|---|---|---|---|---|
| AM-MF | M | 1300 kHz | Approx. 455 kHz. To decide the exact generator frequency see below * | Aerial input (M6) over standard dummy aerial (fig.25) | L106<br>L107 | Max. | IF trap L104 must be detuned. Use a weak signal |
| Detector | | | | | L108 | | |
| IF trap | | | | | L104 | Min. | stronger signal |
| Osc. | M | 600 kHz<br>1370 kHz | 600 kHz<br>1370 kHz | | L103<br>C102 | Max. | |
| | L | 250 kHz | 250 kHz | | C110 | | |
| Aerial circuit | M | 600 kHz<br>1500 kHz | 600 kHz<br>1500 kHz | | L101<br>C106 | Max. | |
| | L | 160 kHz<br>250 kHz | 160 kHz<br>250 kHz | | L102<br>C107 | | |
| Indicator | L | 250 kHz | 250 kHz<br>200 mV<br>mod. 30% | | R410 | Indicator deflection adjust to the middle of the red area. | For a small number of sets from earlier production R410 is replaced with a fixed resistor R110, 680 Ω |

* Generator frequency for AM-IF alignment.

The exact IF frequency is defined by the ceramic filter in the IF amplifier and can be found by the following method:

- Tune the receiver to approx. 1300 kHz on the medium wave.
- Connect an output meter to the output.
- Apply a signal of approx. 455 kHz (modulation 30%-1000 Hz) to the AM aerial input.
- Detune IF trap L104 and fine tune AM generator around 455 kHz to max deflection on the output meter.

The correct IF frequency is thereby found.

# FM SECTION

Normally, it will not be necessary to adjust the LC circuits. If it has to be done because of repair, use the following procedure.

| Circuit | Receiver | Generator Frequency | Generator Applied to | Adjust | Remarks |
|---|---|---|---|---|---|
| Varicap-Voltage | Push in P1 button and tune P1 tuner wheel: | | | | AFC disconnected |
| R403 | Fully anticlockwise | | | R403 | Adjust to 13V in M8 (FM-tuner) |
| R402 | Fully clockwise | | | R402 | Adjust to 2.95V in M8 (FM tuner) |
| FM-IF | Approx. 10.5V in M8 | 102 MHz | FM Aerial input (M1) | L5, L6 | Use weak signal |
| Osc. | Approx. 3.6V in M8<br>Approx. 10.5V in M8 | 89 MHz<br>102 MHz | | L3<br>C16 | |
| VHF | Approx. 3.6V in M8<br>Approx. 10.5V in M8 | 89 MHz<br>102 MHz | | L2<br>C10 | Adjust to max. deflection on the indicator. |
| Aerial circuit | Approx. 3.6V in M8<br>Approx. 10.5V in M8 | 89 MHz<br>102 MHz | | L1<br>C1 | |

Detector

- Sweep signal 102 MHz, 10 μV, deviation min. ± 150 kHz applied to aerial input (M1).
- Connect an oscilloscope to pin 1 or 4 on the TAPE output (M12).
- Disconnect AFC
- Adjust L11 for symmetrical S-curve with the receiver correctly tuned (S-curve projected in the centre of the scope screen).
- Connect AFC (release button)
- Adjust R405 until the curve is in the centre of the scope screen.
- Disconnect AFC and adjust the receiver until the curve is central. With correct adjustment the curve should not move aside when the AFC is connected and disconnected.

FM-indicator (signal strength)

- Adjust deflection with R404. Without a signal the pointer will be in the middle of the narrowest field.

FM -indicator (frequency)

- Apply signal of 95 MHz to M1
- Tune P1 tuner until the signal is received.
- Adjust R406 until the frequency indicator shows 95 MHz.

## STEREO DECODER

Necessary measuring equipment:
FM-stereo generator
Oscilloscope (AC tube voltmeter)
Frequency counter

### Oscillator, 19 kHz

- Apply 1 mV/300 Ω to aerial input, from FM stereo generator modulated with 10% pilot signal and approx. 53% (± 40 kHz deviation) 1 kHz modulation signal.
  See that the receiver is tuned to exact generator frequency.
- Adjust R523 to central position.
- Short out decoder input C65 with a condenser of at least 0.47 μF to earth.
- Adjust R503 until 19 kHz is read on the frequency counter connected to M10 (pin 10 on MC 1310P).
  Without the frequency counter the oscillator can be adjusted to the middle of the "light-up area" of the stereo lamp.
  (NB! without shorted out decoder input)

### Channel separation

- Remove possible short circuiting on the decoder input.
- Adjust the set's bass and treble controls to minimum and volume control to about half way.
- Connect oscilloscope (possibly tube voltmeter also) to the right and/or left amplifier output.
- Adjust R523 to the best possible channel separation (minimum signal in opposite channel when right or left channels are modulated)
  A compromise between max. attainable channel separation in both instances is normal.

Adjustment of channel separation can also be done by using the test signal sent from FM stereo broadcasters.

NB! See that the receiver is tuned to the exact station frequency

- Adjust R523 to minimum signal in the opposite channel, when the test signal consists of pilot signal together with modulation signal in the right or left channel.

### Automatic Stereo/Mono changeover.

- Turn R505 fully clockwise
- Apply the receiver with a signal of approx. 10 μV/300 Ω from a stereo generator. The STEREO light should now be off.
- Adjust R505 carefully anticlockwise to the point where the lamp lights up.

## Changing of dial light bulbs.

- Remove the top plate from the set.
- Remove screw (A) and pull mounting mould for the bulbs out of the front panel.
- Pull out the bulb with the leads (fixed) and replace.
- Push the new bulb into place. Avoid tension of the leads in the bulb.
- Screw the mould back into place.

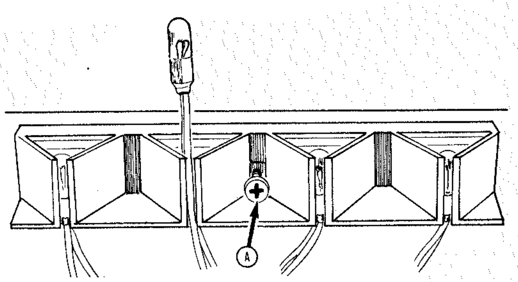



Fig. 4. Removing dial light bulbs.

## Changing bulbs in an indicator.

- Remove the set's top plate.
- Free the indicator from the plastic clamp.
- Turn the indicator upside down.
- Press down the catch lever (B) that is visible in the opening (C) and pull the bulb holder carefully out.
- Change the bulb and refit the indicator into place.

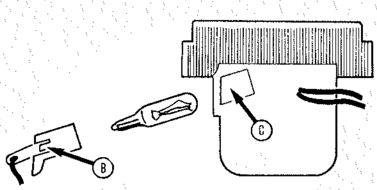



Fig. 5. Changing bulbs in the indicator.

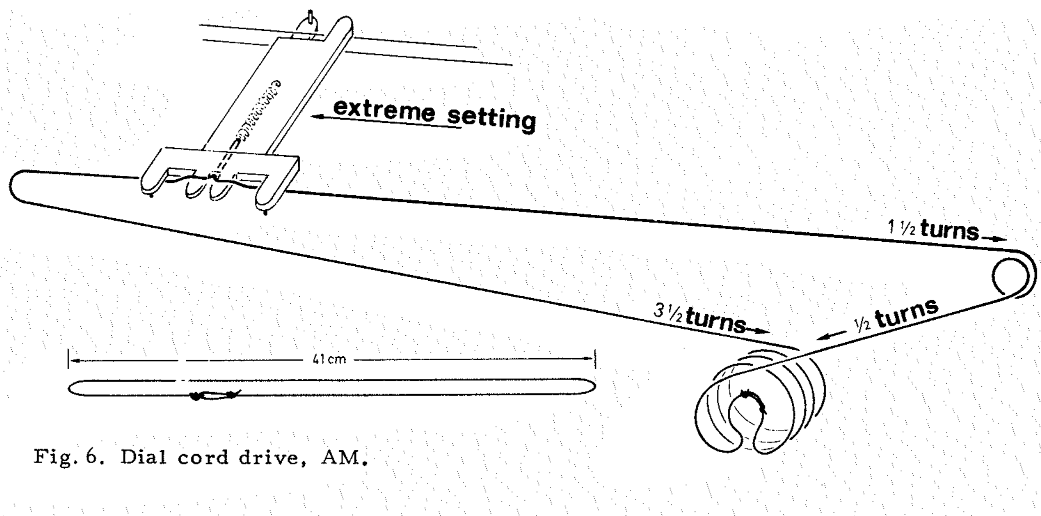



Fig. 6. Dial cord drive, AM.

## SERVICING THE CASSETTE SECTION

Remember! The record player must be secured to avoid damage during servicing.

Adjusting of the bias voltage, AGC, DNF and playback curve, can be done from underneath the set when the bottom cover is removed. 3 screws in the front edge and 3 in the back edge, fig. 7, are released and the bottom cover is taken off.
For adjustments to the motorspeed, heads and replacement of components, the cassette section has to be dismounted.

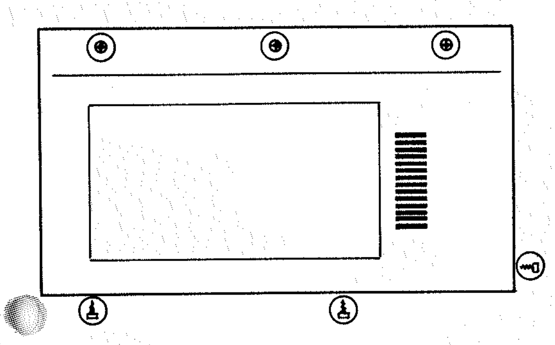


Fig. 7. Removal of bottom cover.

### Dismounting the cassette section for service

If a fault occurs in the cassette section of the SM 340 GC, it can be removed for service without disturbing the sets remaining functions. To avoid damaging the dust cover, this should be removed first.

### Dismounting (see fig. 8)

Dismounting is carried out by removing the four fixing screws (A).
Lift out the rear of the cassette section and push the unit backwards until it is freed at the front.
Pull out the DIN plug at the rear of the set. To free the DIN cable it is necessary to unscrew the right, rear screw (B) in the main chassis top cover and lift it a little. Loosen the two Multi connectors on the cassette plate and the cassette is then free.

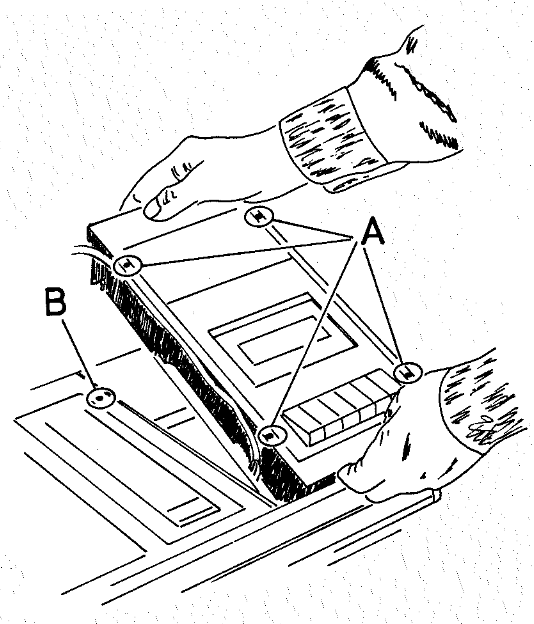



Fig. 8. Dismounting the cassette section.

### Testing

Testing the cassette section can be carried out with its ordinary connections or with the following exterior connections:

Voltage: + voltage (30-45V direct voltage) coupled to pin. 601.
– voltage to pin. 602.

Signal in/out: Cassette section's DIN plug. Can be connected to the radio or an amplifier.

Signal MIC: Pin 405 (left) and pin 505 (right)

Note: When testing the dismounted cassette section the signal-earth and DC voltage-earth must be joined (pin 500(400) and pin 602).

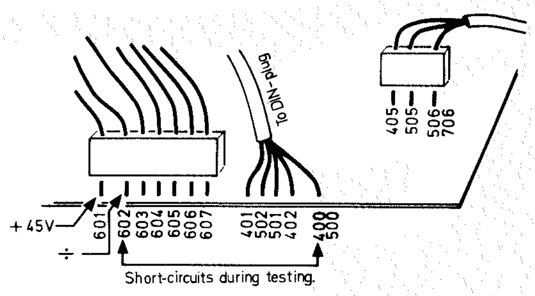



Fig. 9. Connections on the cassette section for testing.

### Mounting

Cancel any possible short circuiting (500/400-602).
Mounting is done in the reverse procedure to dismounting. Mind that the cable is not squeezed and that the buttons operate normally.

### Further dismounting

For service to the printed circuit components and the cassette sections underside, follow the procedure below for dismounting (fig. 10 and 11).
For service to the cassette's top part, follow the procedure described in the next section (fig. 12).

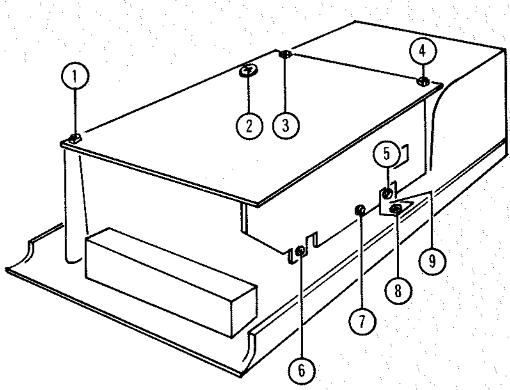



Fig. 10. Dismounting the printed circuit board.

Dismounting the printed circuit board

- Undo screws (1-8) and remove the angle (9), see fig. 10.
- Tilt the board up and put it in the service position (two holes in the heat sink hold the board on two pins on the cabinet, see fig. 11).
- In this position repair and fault finding can be done.
- After re-mounting be sure that the rocker arm for record/playback selector functions correctly and that the multi-connectors are in place.

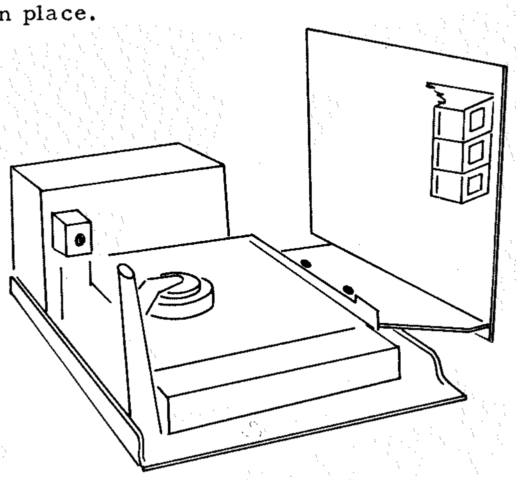


Fig. 11. Printed circuit board in service position.

Dismounting the cassette mechanism

- Remove screws 1-7 plus the fixing 8-9 that hold the microswitch for the pause function. The cassette mechanism can now be taken out.
- In this condition the cassette's functions can also be tested with power, except for the pause and end stop which are dependent upon the microswitch.

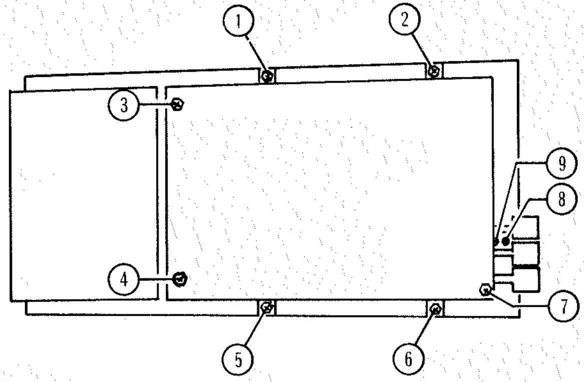



Fig. 12. Dismounting the cassette mechanism.

## ELECTRICAL ADJUSTMENTS

Demagnetise and clean the heads and the tape path. Test and adjustment points, see fig. 15.

Motor speed

- Play a test tape with a certain exact frequency (Tandberg test tape nr. 21 1000 Hz).
- Connect frequency counter to output (M1)
- Check that the counter shows the frequency of the played tape.
- The speed is adjusted with trimming potentiometer through the hole in the top of the motor, see fig. 13.

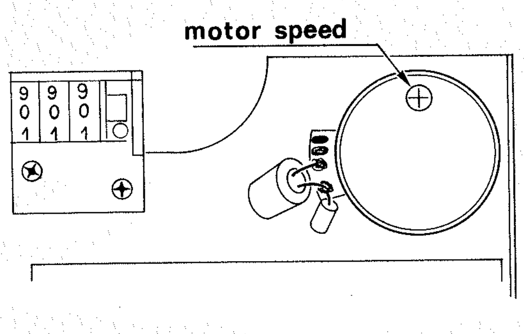



Fig. 13. Adjusting the motor speed.

Azimuth

Check visually first that the tape runs correctly in the tape path.

- Connect a V. T. V. M. to the outputs (M1) and (M2)
- Play the azimuth cassette, 6.3 kHz. (Tandberg test tape nr. 23) or 10 kHz.
- Adjust azimuth (see fig. 14) until the maximum signal is obtained at both outputs.
- Channel difference. Max. 3 dB.
- Check DNF function, see next section.

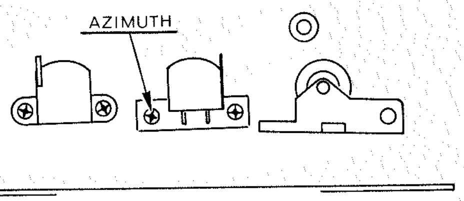



Fig. 14. Adjusting the azimuth.

Checking the DNF function

- Play the azimuth cassette.
- Push in the DNF selector. The signal at the outputs should then drop:
  5.5 dB at 6.3 kHz.
  8 dB at 10 kHz.

Adjusting the DNF connecting level.

- Play level cassette (Tandberg test tape nr. 24)
- DC voltage on gate Q802/Q803 (M3) is adjusted with R801 to 9.5 Volts.

Checking playback curve

- Play a test tape, playback curve (Tandberg test tape playback curve 400-50-5000-10000Hz)
- Release DNF selector.
- Connect a V. T. V. M. to outputs (M1) and (M2).
- Use 333-1000 Hz (400 Hz) as a reference and check that the output voltages are within $\pm$ 3dB

### Recording preadjustment of bias voltage

- Check with a frequency counter that the bias frequency is between 80 and 90 kHz.
- Prepare the set for recording.
- Push in CHR selector.
- With a high impedance, low capacity voltmeter connected to point 403 (M4) and point 503 (M5) adjust C701/C702 to 15 volts.
- Release CHR selector (standard tape setting).
- The voltage should then fall from 15 to 11 volts (2.5 dB).
  This level can be regulated with R701.

### Recording, frequency response

- Switch off AGC selector, see fig. 15.
- Push in CHR selector.
- Connect a V. T. V. M. to outputs (M1) and (M2).
- Record on a chromium cassette 40 Hz, 400 Hz and 14000 Hz, level 5 mV, from the generator.
- Rewind and play back.
- Check that the output voltages maintain the following tolerances:
  40 Hz: - 6 dB
  400 Hz: 0 dB
  14 kHz: ± 4 dB
  Channel separation: 3 dB
- If the frequency response is wrong the bias must be adjusted.
  Higher bias voltage will give lower 14 kHz level. If the bias is adjusted for chromium tape, one must check that the bias voltage for standard tape is correct (-2.5 dB), see previous section.

### Adjusting recording curve

- Switch off AGC selector, see fig. 15.
- Stop the oscillator by unsoldering on one of the legs of R706.
- Apply signal 15 kHz, 5 mV to pin 1/4 on the DIN contact.
- Connect a V. T. V. M. points 403/503, (M4) (M5).
- Adjust L401/L501 to max. voltage.
- Connect AGC.

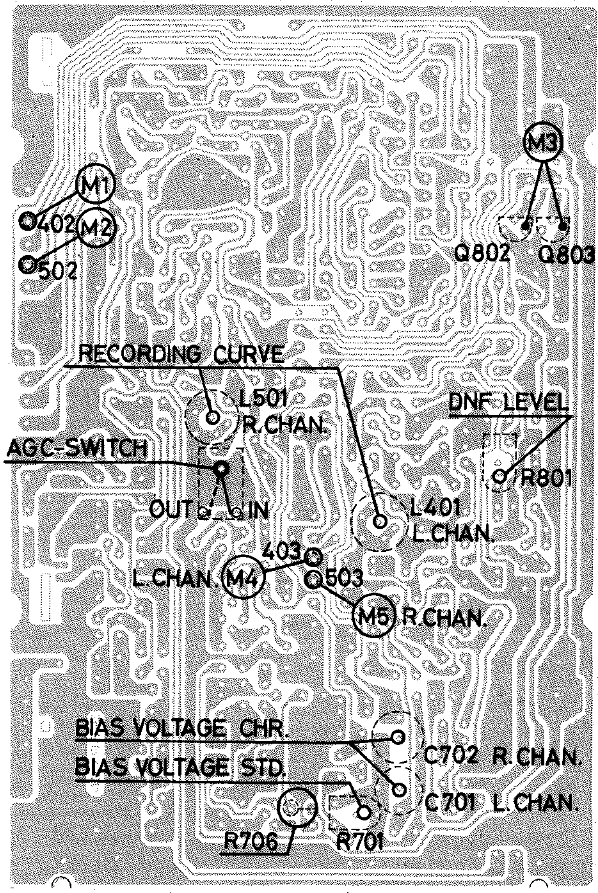



Fig. 15. Test and adjustment points.

### Distortion, signal/hum and erasing

- Record signal 1 kHz, 160 mV (0 dB) on pin 1/4 on the DIN contact.
- Distortion meter is connected to the output.
- Rewind and erase the second half.
- Rewind and play back.
- Read off distortion, $< 3\%$.
- Measure signal/noise ratio (45-50 dB), unweighted RMS).
- Erasing is checked by listening test, the rest of 1000 Hz signal should be strongly dampened.
  (The erasing can also be measured selectively, $> 68$ dB).

### DYNAMIC NOISE FILTER (DNF) HOW IT WORKS

During playback a part of the signal is tapped from the left channel via pot. meter R801. This signal is amplified strongly in Q801, is then rectified in CR801/CR802 and charges condenser C802.
This direct voltage governs two field effect transistors Q802 and Q803. With weak play-back signals the voltage on the "gate" would be so low that Q802/Q803 would conduct. C805 and C806 are thereby connected to earth through the transistors and cause a drop of 6 dB/octave for frequencies higher than 4 kHz at the input of the equalization amplifier.
With strong play-back signals the voltage on the "gate" would be so high that Q802/Q803 go"cut off" cancelling the drop of the treble frequencies.
The DNF threshold voltage is about + 3.0V on the gates.
The "gates" remain positive during recording via CR803 and R807 to avoid a treble cut when recording.

### END STOP CIRCUIT, HOW IT WORKS

On the same axle as the tape counter there is mounted a fan that rotates when the tape is moving.
The fan rotates between a lamp LP602 and a Photo resistor LDR6A and produces an AC voltage over the photo resistor.
This AC voltage is amplified in Q605 and rectified to a DC voltage across C611. This bias voltage brings Q606 into saturation, which entails that Q607 goes "cut-off".
When the tape comes to the end the fan stops, the AC voltage over the photo resistor disappears and C611 is discharged via R615/R623.
After about 5 secs. Q606 is brought to "cut-off" and Q607 will conduct.
The solenoid L602 operates and the cassette is released.
So that the cassette is not released during a PAUSE the pause button and R614 provide a charging voltage across C611.
Via the main switch and R618, C611 will also be charged when the cassette is turned off.
Otherwise the cassette would be released when starting.

## DISMOUNTING OF PARTS ON THE DRIVE MECHANISM

### Flywheel

Remove the flywheel holder (88). Take the circlip from the axle of the take-up unit (86) and remove the take-up wheel. The flywheel can then be pulled out of the housing.

### Drivebelt

This can be changed when the screws on the flywheel holder (88) are loosened.

### Cassette holder

Four screws in the side bracket, right (33) are loosened and after the upper circlip for the locking plate (38) is taken off the cassette holder can be removed.

### Heads

NOTE! After replacement, azimuth testing must be carried out.

## MECHANICAL ADJUSTMENTS

### Pressure-roller pressure (375-425 g)

If this pressure cannot be obtained, adjust the springs position or replace it.

### Take-up torque (40-75 g cm)[1)]

If the take-up torque is insufficient, clean the rubber surfaces with spirit, change the take-up unit (86) or tighten the spring on the winding arm (87). A few drops of red spirit on the clutch felt will also increase the take-up torque a little.

### Winding torque (more than 75 g cm)[1)]

If sufficient torque is not obtained:

a) Clean the rubber surface on the right hand turntable, or if necessary change the turntable.
b) Clean the winding wheel and pulley or change the winding unit (100).
c) Clean the flywheel and drive belt.
d) Bend the arm (A) shown in fig. 16 to increase spring action.

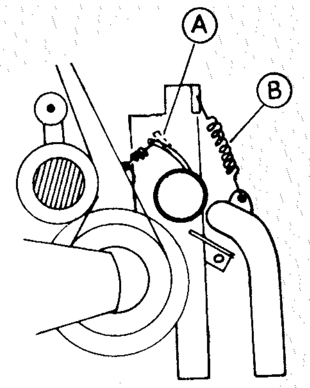



Fig. 16. Mechanical adjustments.

### Rewinding torque (more than 70 g cm)[1)]

If sufficient torque is not obtained:

a) Clean the rubber surface on the left turntable.
b) Clean the rubber on the rewind wheel
c) Clean the flywheel and drive belt.
d) Cut about 6 turns off the spring (B) shown in fig. 16 to increase the spring action.

1) Measured with torque cassette.

### Releasing mechanism

If there is too great a resistance in the transfer mechanism from the release magnet to the cassette holder, the magnet will not be able to operate. If this is the case, check the following:

a) That the slide-plate (34) moves freely and returns to the neutral position.
b) That there is molybdenum lubricant on all friction points.
c) That the magnet is not set too far back, adjust if necessary.
d) That the locking spring (57) is not too tight. Slacken by stretching a little.
e) If the cassette holder must be pressed all the way down before the locking plate (38) goes into the locking position. In this case, the flap on the locking plate can be bent a little to allow it operate more freely.

### Cleaning

The sound heads and rubber surfaces etc. are best cleaned with refined petrol and Q-tip cotton pins or the like.

### Lubricating

Molypan or similar can be used for release mechanisms and push-button unit.
Thin motor oil or sewingmachine oil can also be used. Note: Lubricate only in very small amounts and not so that oil can come into contact with the rubber surfaces or the drive belt.

## Wow and flutter

If "wow and flutter" occur, check the following points. In the case of a fault in one rotating part, the wow and flutter speed will correspond to the speed of that part. Therefore, play a cassette with 3000 Hz tone to examine this.

| Symptom | Defect part | Repair |
|---|---|---|
| Uneven tape motion | | Clean heads and tape path |
| Vibration in capstan axle | Capstan | Change flywheel |
| Flywheel slow | Flywheel | Adjust, clean or lubricate flywheel holder or change. Clean edge of flywheel |
| Uneven tape motion<br>Particles on rubber surface<br>Wrong angle<br>Insufficient pressure | Pressure roller | Change pressure roller<br>Clean rubber surface<br>Adjust parallel to capstan<br>Adjust the spring |
| Vibration in drivebelt, dirty or smooth belt | Drive belt | Clean or change drive belt |
| Uneven friction | Outlet brake | Dismantle and lubricate supply turntable |
| Vibration in the motor axle<br>Dirt in the motor pulley | Motor | Change motor<br>Clean |

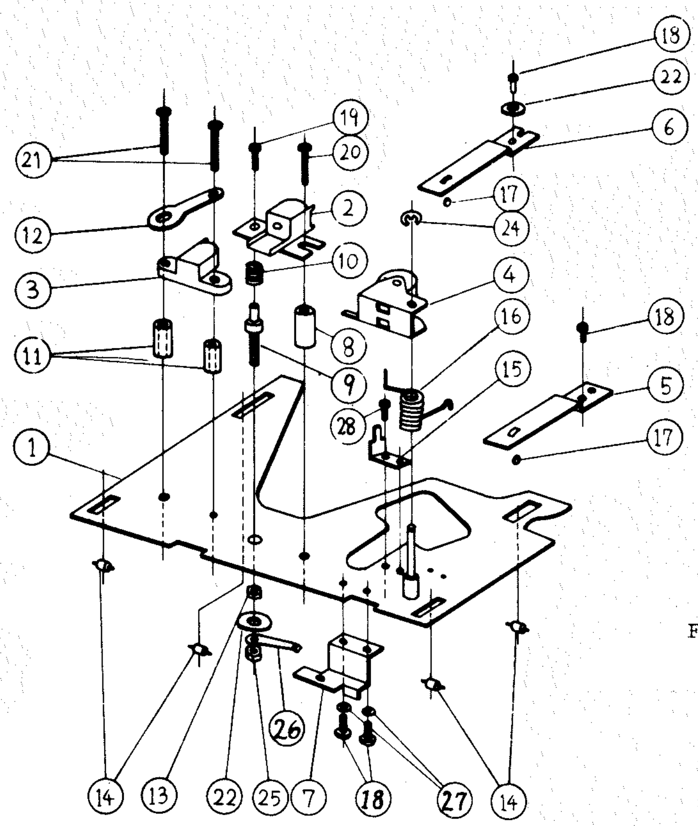



Fig. 17. Mechanical parts.

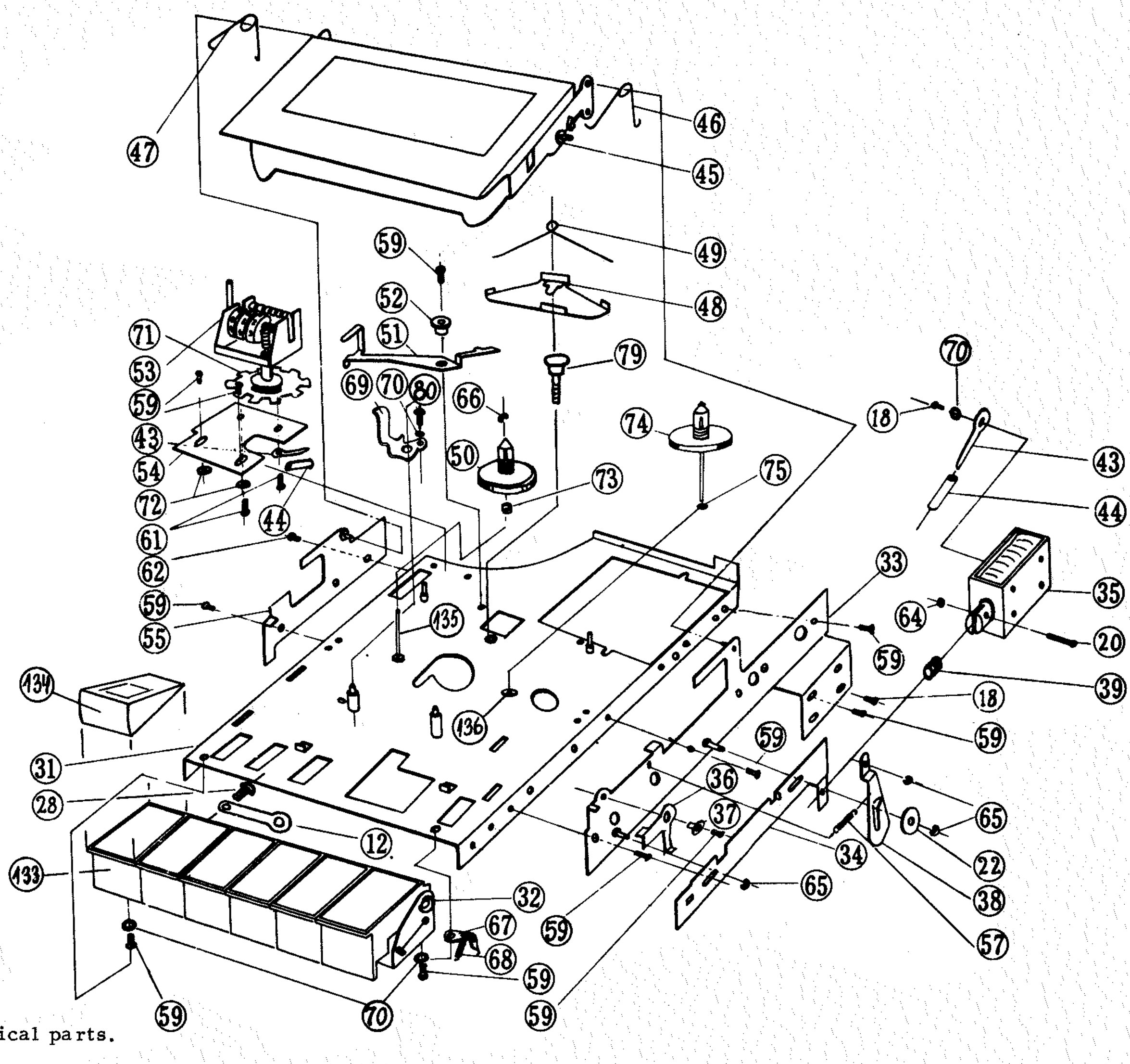



Fig. 18. Mechanical parts.

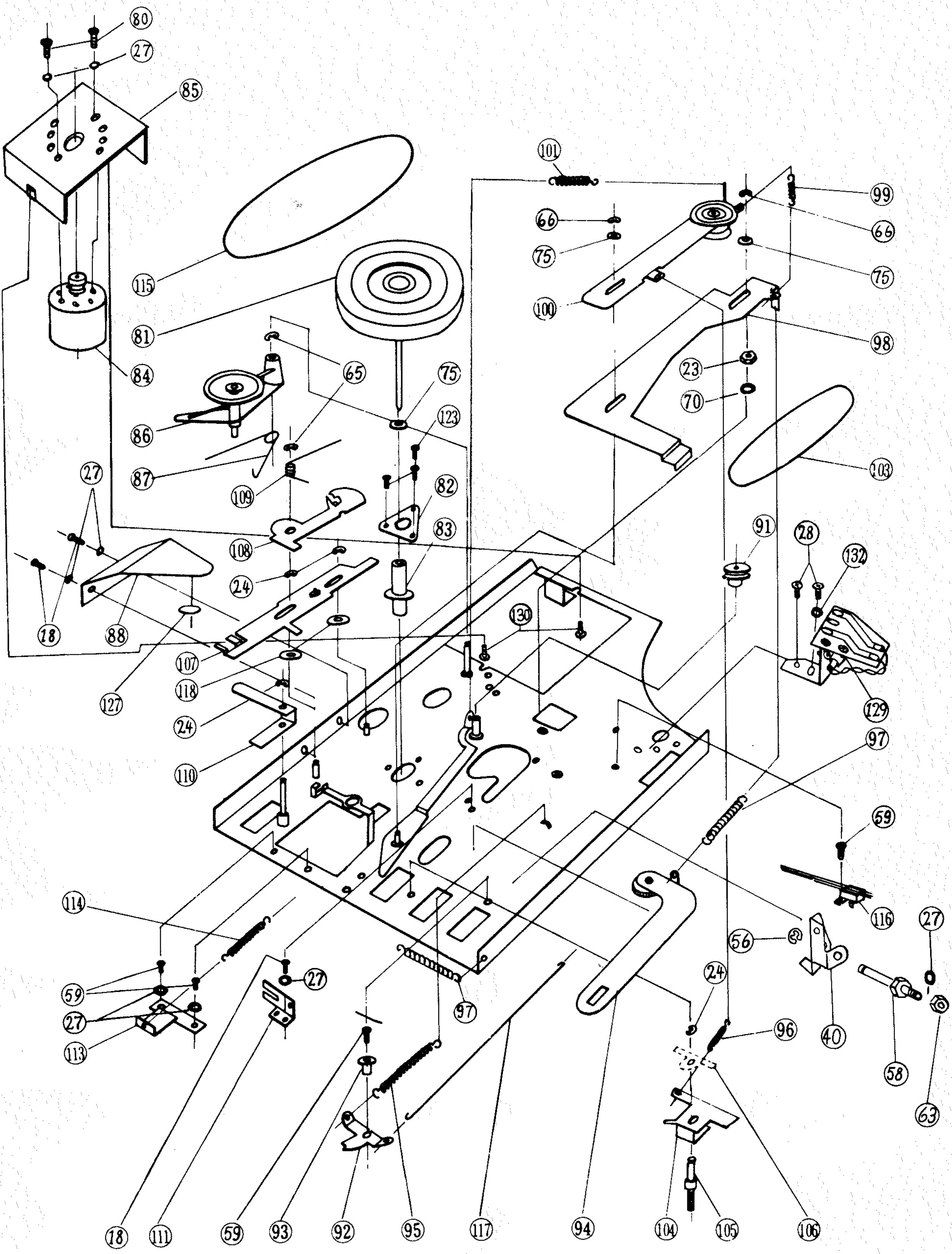



Fig. 19. Mechanical parts.

# MECHANICAL PARTS, DRIVE MECHANISM

| Pos. No | Description | Parts No. |
|---|---|---|
| 1 | Sound head plate | 76-27-01 |
| 2 | Sound head | 76-27-02 |
| 3 | Erase head | 76-27-03 |
| 4 | Pressure roller arm, complete | 76-27-04 |
| 5 | Right spring for sound head plate | 76-27-05 |
| 6 | Left spring for sound head plate | 76-27-06 |
| 7 | Angle bracket for head plate | 76-27-07 |
| 8 | Spacer for sound head | 76-27-08 |
| 9 | Adjustable spacer for sound head | 76-27-09 |
| 10 | Adjusting spring for sound head | 76-27-10 |
| 11 | Spacer for erasure head | 76-27-11 |
| 12 | Soldering tag | 76-27-12 |
| 13 | Special nut | 76-27-13 |
| 14 | Roller for sound head plate | 76-27-14 |
| 15 | Stop bracket for pressure arm | 76-27-15 |
| 16 | Pressure roller spring | 76-27-16 |
| 17 | Steel ball | 76-27-17 |
| 18 | Machine screw M2, 6x4 pan pos | 76-27-18 |
| 19 | Machine screw M2, 6x8 pan pos | 76-27-19 |
| 20 | Machine screw M2x12 pan pos | 76-27-20 |
| 21 | Machine screw M2x14 pan pos | 76-27-21 |
| 22 | Metal washer | 76-27-22 |
| 23 | Nut M2. 6 | 76-27-23 |
| 24 | Locking ring, 2 mm | 76-27-24 |
| 25 | Nut M2. 6 | 76-27-25 |
| 26 | Spring plate | 76-27-26 |
| 27 | Bearing washer 2. 6 | 50-75-28 |
| 28 | Machine screw M2x3 pan pos | 50-42-03 |
| 31 | Chassis | 76-27-31 |
| 32 | Push button unit | 76-27-32 |
| 33 | Right hand side bracket | 76-27-33 |
| 34 | Slide plate | 76-27-34 |
| 35 | Solenoid | 76-27-35 |
| 36 | Rocker arm | 76-27-36 |
| 37 | Control | 76-27-37 |
| 38 | Locking plate | 76-27-38 |
| 39 | Spring for magnet | 76-27-39 |
| 40 | Winding arm | 76-26-53 |
| 43 | Cable clip | 76-27-43 |
| 44 | Plastic sleeve,black,4x20 mm | 76-27-44 |
| 45 | Cassette holder | 76-27-45 |
| 46 | Right hand spring for cassette holder | 76-27-46 |
| 47 | Left hand spring for cassette holder | 76-27-47 |
| 48 | Brake arm | 76-27-48 |
| 49 | Spring for brake arm | 76-27-49 |
| 50 | Supply turntable | 76-27-50 |
| 51 | Erase prevention arm | 76-27-51 |
| 52 | Bearing for erase prev. mechan. | 76-27-52 |
| 53 | Tape counter | 76-27-53 |
| 54 | Tape counter bracket | 76-27-54 |
| 55 | Left hand side bracket | 76-27-55 |
| 56 | Circlip 3 mm | 50-76-29 |
| 57 | Spring for locking plate | 76-27-57 |
| 58 | Axle for winding arm | 76-27-58 |
| 59 | Machine screw M2. 6x6 pan pos | 76-27-59 |
| 61 | Machine screw M3x4 pan pos | 76-27-61 |
| 62 | Machine screw M3x6 pan pos | 76-27-62 |
| 63 | Nut M2. 6 | 76-27-25 |
| 64 | Nut M2 | 50-94-20 |
| 65 | Locking ring, 2 mm | 50-76-20 |
| 66 | Locking ring 1. 5 mm | 50-76-15 |
| 67 | Spring bracket | 76-27-67 |
| 68 | Spring for pause arm | 76-27-68 |
| 69 | Cassette control | 76-27-69 |
| 70 | Washer 2. 6 mm | 76-27-70 |
| 71 | Tape counter wheel | 76-27-71 |
| 72 | Spacer washer | 76-27-72 |
| 73 | Spring for supply turntable | 76-27-73 |
| 74 | Take-up turntable | 76-27-74 |
| 75 | Nylon washer | 76-27-75 |
| 79 | Axle for brake arm | 76-27-79 |
| 80 | Machine screw M2. 6x3 pan pos | 76-27-80 |
| 81 | Flywheel | 76-27-81 |
| 82 | Locking plate | 76-27-82 |
| 83 | Flywheel bearing | 76-27-83 |
| 84 | Motor complete | 76-27-84 |
| 85 | Motor bracket | 76-27-85 |
| 86 | Winding unit | 76-27-86 |
| 87 | Spring for winding arm | 76-27-87 |
| 88 | Flywheel holder | 76-27-88 |
| 91 | Belt pulley for tape counter | 65-27-91 |
| 92 | Take-up lock | 76-27-92 |
| 93 | Bearing for record lock | 76-27-93 |
| 94 | Rewind arm | 76-27-94 |
| 95 | Spring for record lock | 76-27-95 |
| 96 | Spring for winding lock | 76-27-96 |
| 97 | Spring for push-button and rewinding | 76-27-97 |
| 98 | Brake slide | 76-27-98 |
| 99 | Spring for winding arm | 76-27-99 |
| 100 | Forward winding arm | 76-28-00 |
| 101 | Connecting spring for forward winding arm | 76-28-01 |
| 103 | Tape counter belt | 76-28-03 |
| 104 | Forward winding lock | 76-28-04 |
| 105 | Axle for forward winding lock | 76-28-05 |
| 106 | Stopper | 76-28-06 |
| 107 | Pause arm | 76-28-07 |
| 108 | Locking arm | 76-28-08 |
| 109 | Locking spring | 76-28-09 |
| 110 | Torsion arm | 76-28-10 |
| 111 | Control fork | 76-28-11 |
| 113 | Spring bracket | 76-28-13 |
| 114 | Spring for sound head plate | 76-28-14 |
| 115 | Drive belt | 76-28-15 |
| 116 | Main switch | 76-28-16 |
| 117 | Rod for recording lock | 76-28-17 |
| 118 | Washer | 76-28-18 |
| 123 | Machine screw M2x6 pan pos | 76-28-23 |
| 127 | Bearing washer | 76-28-27 |
| 129 | Photo cell unit | 76-26-59 |
| 130 | Machine screw M2. 6x10 pan pos | 76-28-30 |
| 131 | Machine screw M2. 6x6 pan pos | 76-28-31 |
| 132 | Bearing washer 2 mm | 50-75-20 |
| 133 | Push button | 76-28-32 |
| 134 | Cover for push button, glued | 33-35-42 |
| 135 | Axle for left turntable | 76-28-36 |
| 136 | Bearing for right turntable | 76-28-37 |

## MISCELLANEOUS

| Part name | Parts No. |
|---|---|
| Spring, EJECT button | 33-05-90 |
| Spring, magazine | 33-22-71 |
| Spring, pause switch | 33-39-52 |
| Photo resistor/lamp end stop | 76-26-59 |
| Head, record/playback | 30-51-38 |
| Head, erase | 76-27-03 |
| Button, sliding cover | 31-62-08 |
| Button, magazine | 31-92-18 |
| Button, cassette cover | 33-15-09 |
| Button, MIC CHR. DNF | 31-90-25 |
| Magazine, cassette | 31-66-39 |
| Motor with control circuit | 76-27-84 |
| Coil, equalization L401/501 | 98-01-68 |
| Transformer, oscillator T701 | 98-01-42 |
| Transistor servo 2SA 564 | 76-28-35 |
| Selector AGC | 33-07-26 |
| Selector record/playback | 31-80-04 |
| Selector front | 31-96-85 |

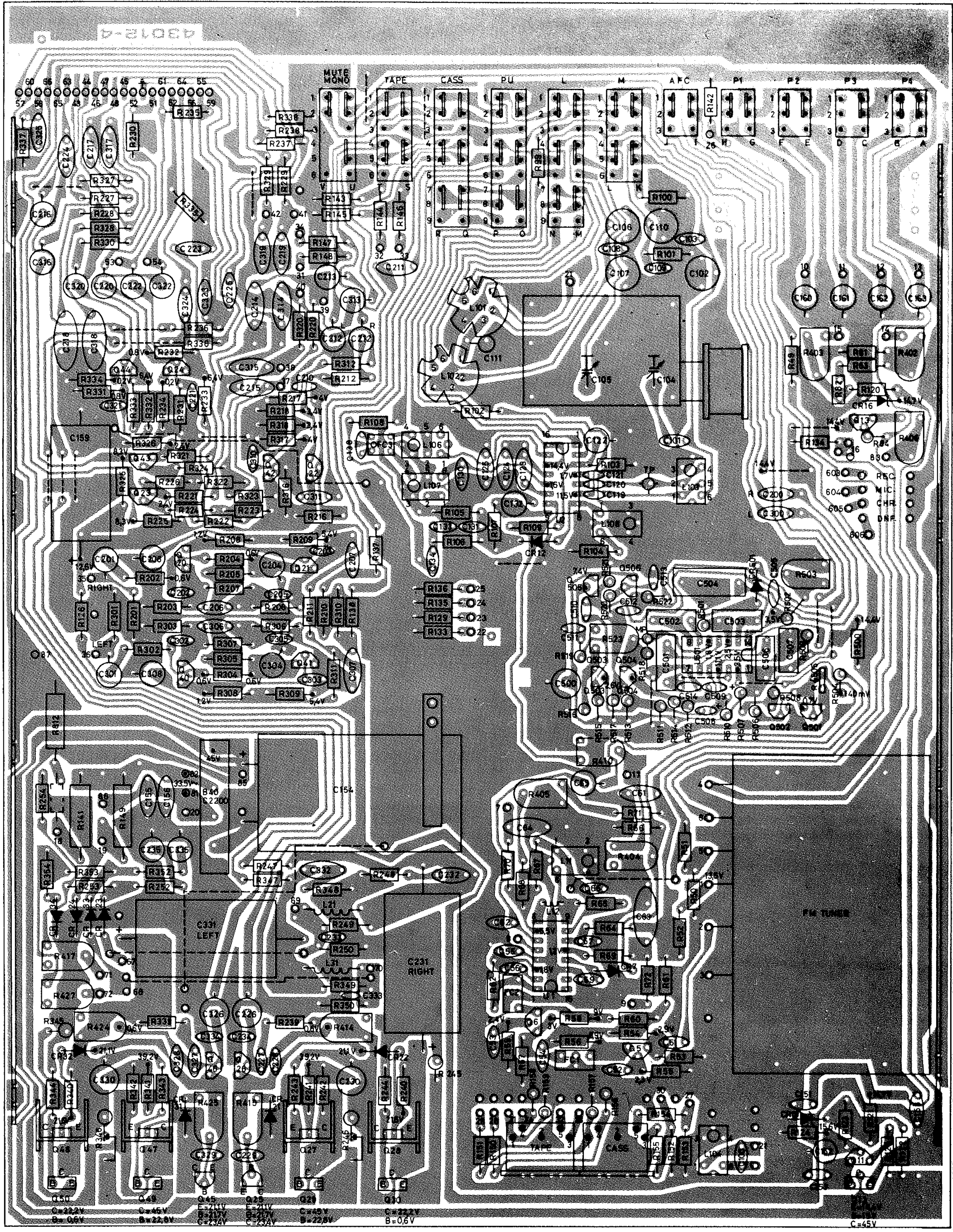


Fig. 20. Main board.

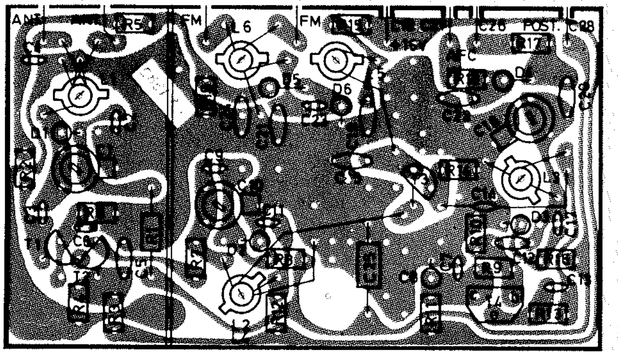


Fig. 21. FM tuner.

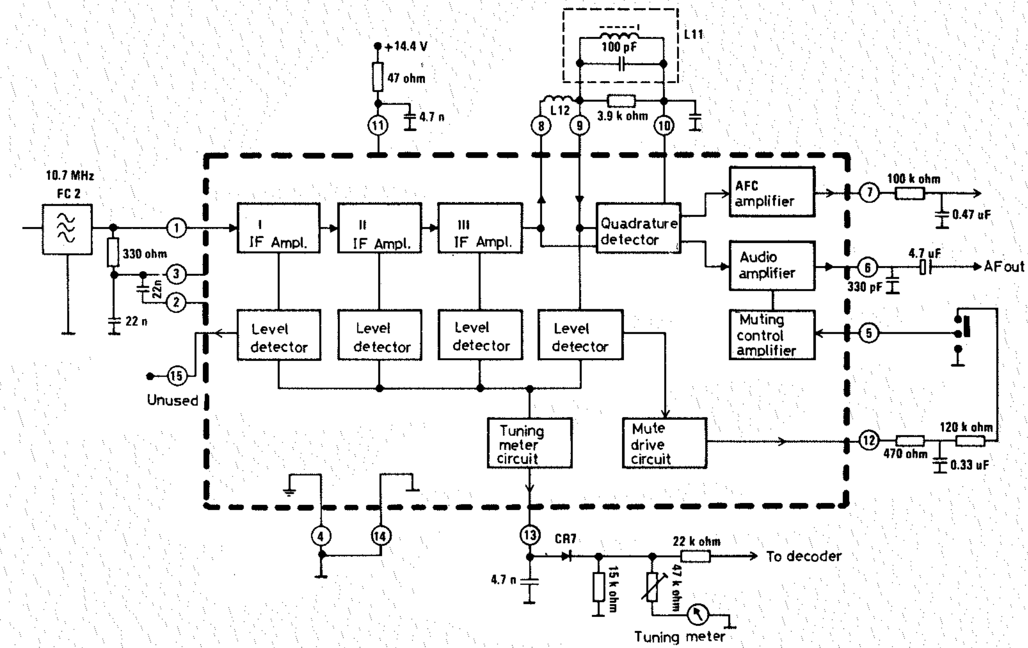



Fig. 22. Block diagram, integrated circuit CA3089E.

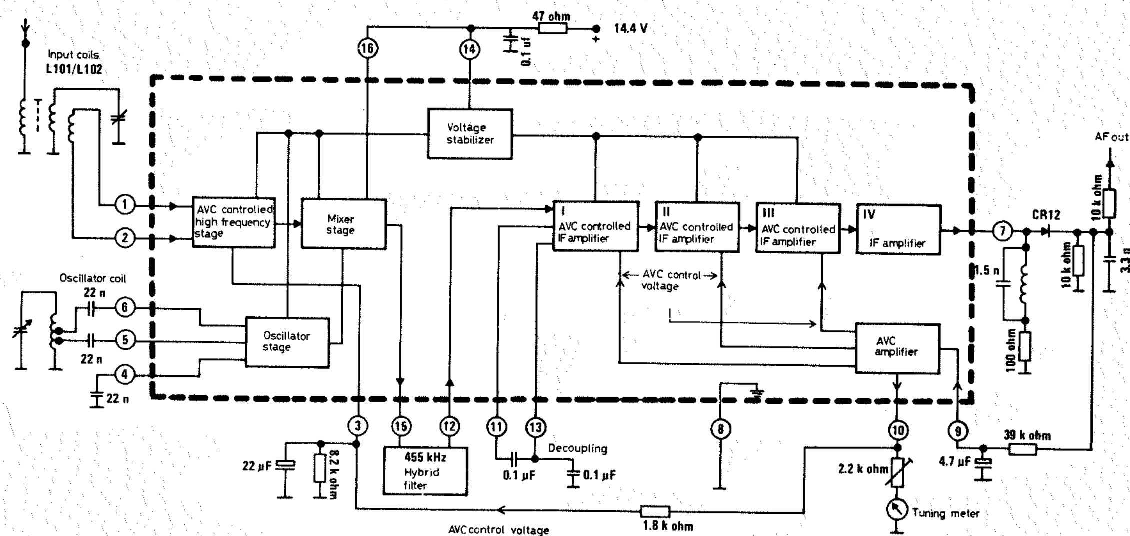



Fig. 23. Block diagram, integrated circuit TCA440.

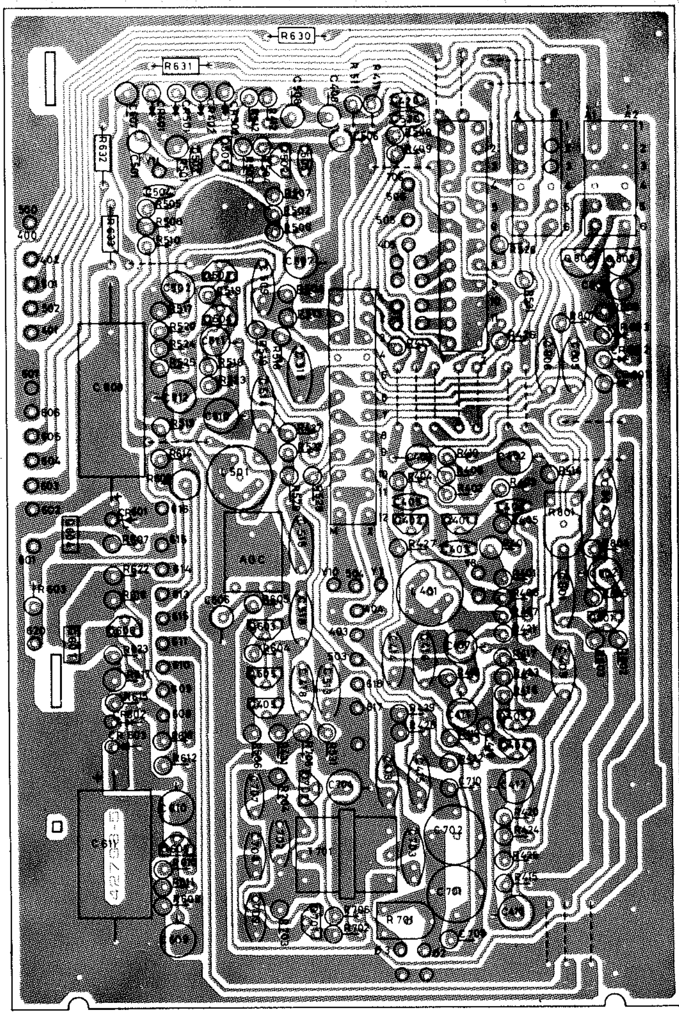


Fig. 24. Cassette board, seen from printed side.

SM 240G

The circuit diagram for SM 240G is identical to that of 340GC, with the following exceptions:

SM 240G has only one socket for headphones. The sockets and switches marked CASS on SM 340GC are marked AUX on SM 240G. Two dial lights with resistors behind the Radionette emblem are dropped in SM 240G.

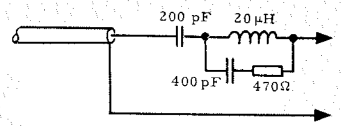



Fig. 25. Standard dummy aerial.

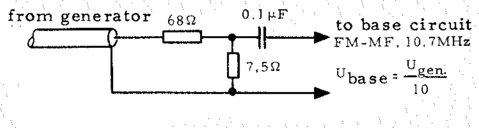



Fig. 26. AC voltage divider.

## Measuring conditions

| Index | Measuring conditions |
|---|---|
| 1) | f= 98 MHz, dev. =75 kHz, Generator imp.=300 ohm<br>The signal will give 650 mV on diode outlet (M12) |
| 2) | f= 10. 7 MHz, dev.=22. 5 kHz. Generator imp.=75 ohm<br>The signal applied via an AC voltage divider (fig. 26). |
| 3) | f=1 kHz. Generator imp.=600 ohm. Signal supplied via 0. 1 µF and will give 200 mV in M12 |
| 4) | f= 1000 kHz, m=30%. The signal supplied via standard dummy aerial(fig. 25)and will give 40 mV in M12. |
| 5) | f=455 kHz, m=30%. Signal supplied via 0. 1 µF and gives 40 mV in M12. |
| 6) | f= 1 kHz, Generator imp.= 600 ohm. Volume at max. and tone controls central will give 9. 7V in M18. |
| 7) | References for M1-M7 measured with a VTVM |
| 8) | Output voltage measured over 4 ohms load. |
| 9) | Refers to U in≈3 mV in M13 (magnetic) measured with a VTVM. |

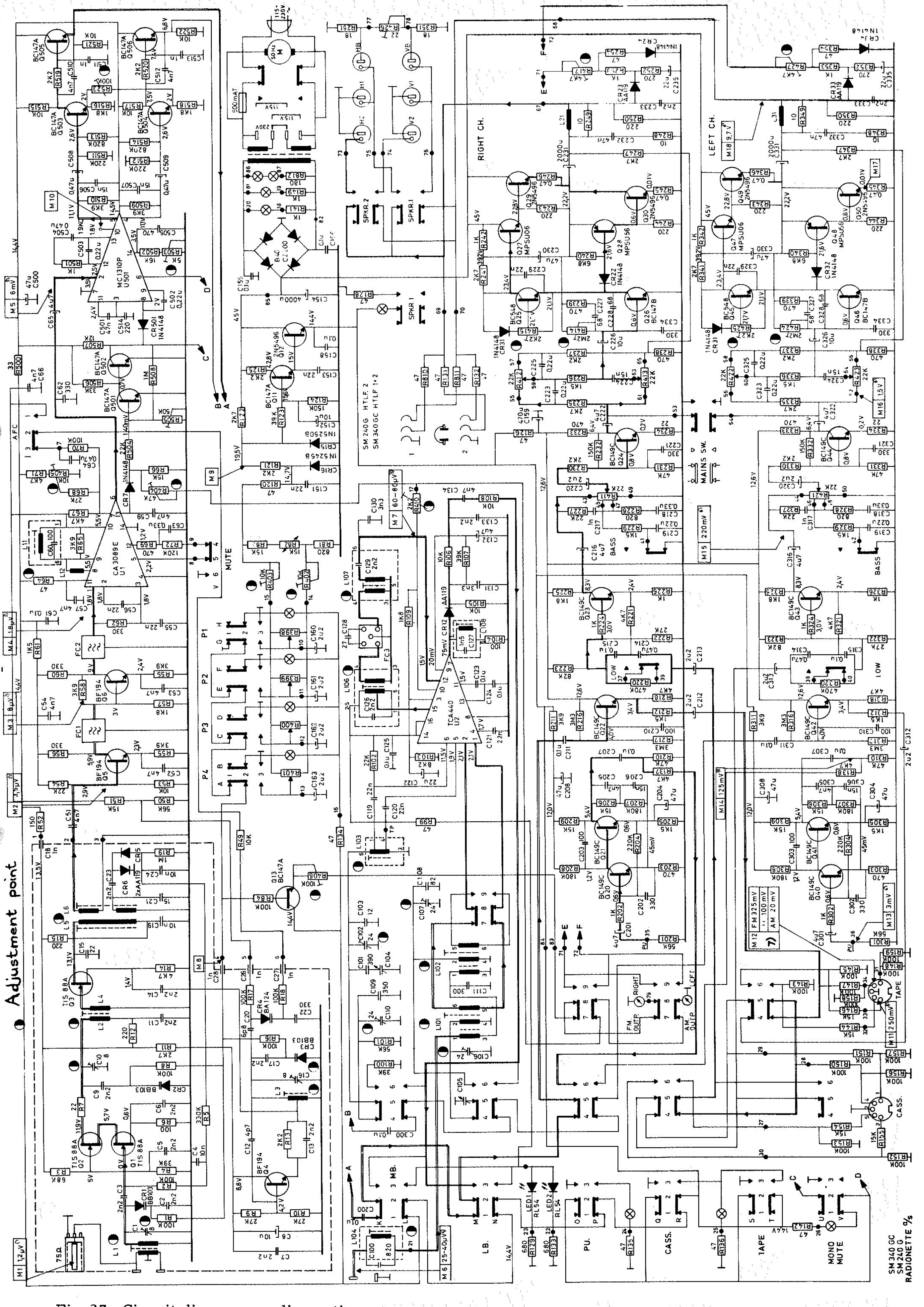



Fig. 27. Circuit diagram, radio section.

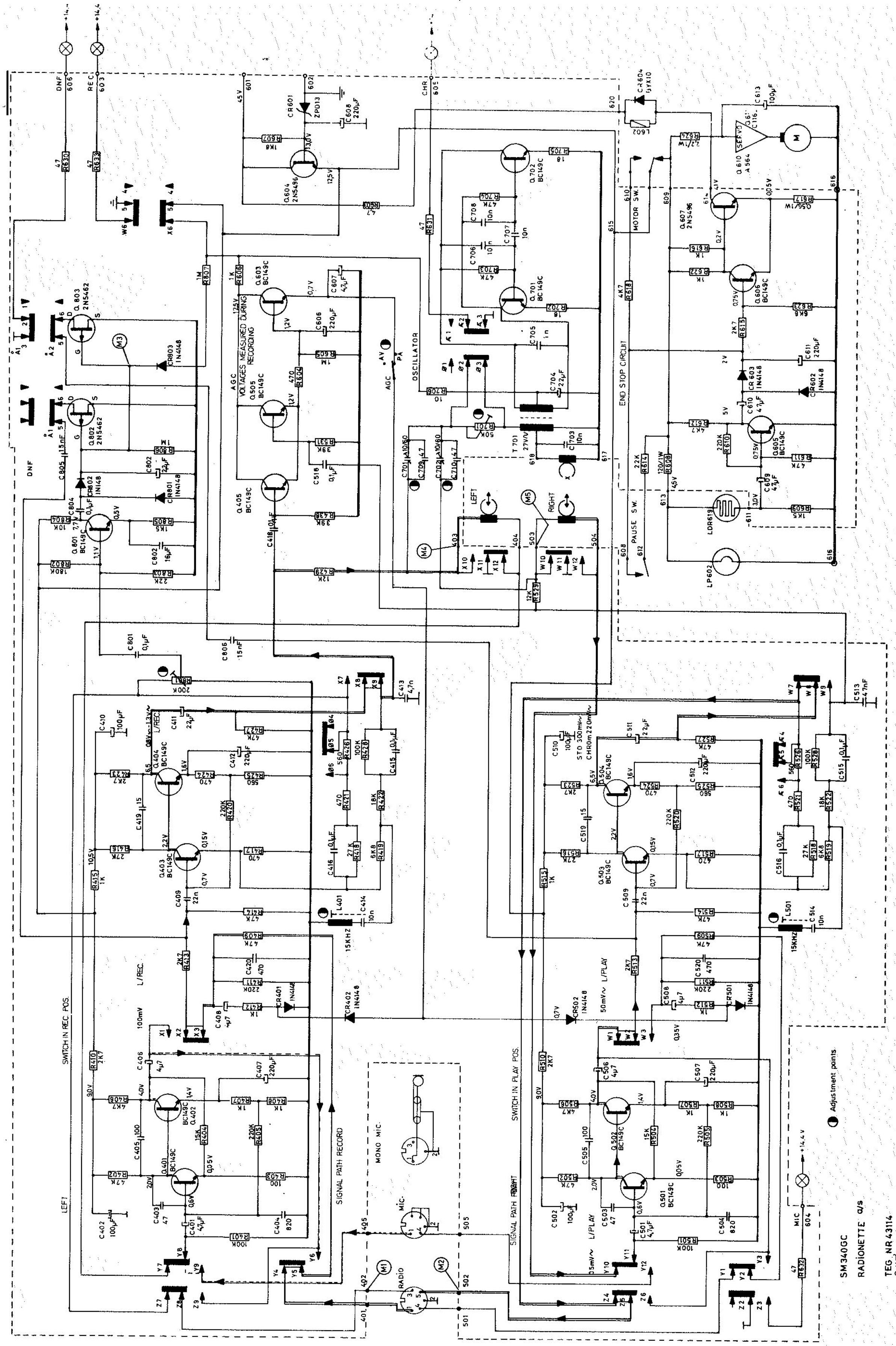


Fig. 28. Circuit diagram, cassette section.

RADIONETTE

1301 SANDVIKA
NORWAY

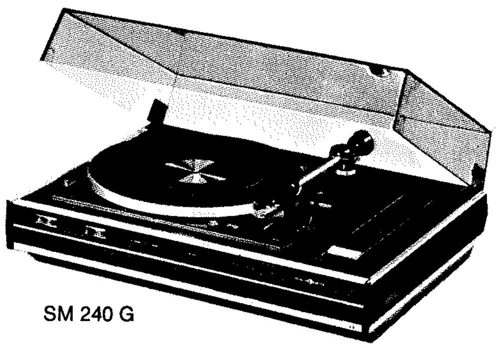
0675121

# RADIONETTE

# SM 340 GC,
# SM 240 G

# ILLUSTRERT DELELISTE
# ILLUSTRATED PARTS LIST

SM 340 GC



SM 240 G

## Innhold



Mekaniske deler, KASSETT DELEN, se Service Forskrift SM 340GC, Kassettdelen.
Mekaniske deler, PLATESPILLER, se Service Håndbok SM 240/340 Platespiller (PE 3044)

Ved alle henvendelser, vennligst oppgi apparatets type og nummer.
Ved bestilling av deler, oppgi bestillingsnummer og beskrivelse.

## Contents



Mechanical parts, CASSETTE SECTION, see Alignment Instructions SM 340GC, Cassette section.
Mechanical parts, RECORD PLAYER, see Service manual SM 240/340 Record player (PE 3044)

For all enquiries, please state the set's type and number.
When ordering, give the part's order number and description .

# ELEKTRISKE DELER
## Felles for SM 240G/340GC

# ELECTRICAL PARTS
## Common to SM 240G/340GC

DIODER

DIODES

| Ref. nr | Oppgi dette ved bestilling<br>Specify this when ordering<br>Order No | Description |
|---|---|---|
| D1 | 266339-SM 240G/340GC | BB 103 |
| D2 | 266339-SM 240G/340GC | BB 103 |
| D3 | 266339-SM 240G/340GC | BB 103 |
| D4 | 213948-SM 240G/340GC | BA 124 |
| D5 | 205068-SM 240G/340GC | 2AA 119 |
| D6 | 204068-SM 240G/340GC | 2AA 119 |
| AM-DIAL | 332307-SM 240G/340GC | RL-54 light emitting |
| CR-7 | 247007-SM 240G/340GC | IN 4148 |
| CR-12 | 205068-SM 240G/340GC | 2AA 119 |
| CR-15 | 323348-SM 240G/340GC | IN 5250B Zener 20V |
| CR-16 | 274607-SM 240G/340GC | IN 5245B Zener 15V |
| CR-21 | 247007-SM 240G/340GC | IN 4148 |
| CR-22 | 247007-SM 240G/340GC | IN 4148 |
| CR-23 | 205068-SM 240G/340GC | 2AA 119 |
| CR-24 | 247007-SM 240G/340GC | IN 4148 |
| CR-31 | 247007-SM 240G/340GC | IN 4148 |
| CR-32 | 247007-SM 240G/340GC | IN 4148 |
| CR-33 | 205068-SM 240G/340GC | 2AA 119 |
| CR-34 | 247007-SM 240G/340GC | IN 4148 |
| CR-501 | 247007-SM 240G/340GC | IN 4148 |

INTEGRERTE KRETSER

INTEGRATED CIRCUITS

| | | |
|---|---|---|
| FM-U1 | 296898-SM 240G/340GC | CA 3089 E |
| AM-U2 | 328729-SM 240G/340GC | TCA 440 |
| U-501 | 293594-SM 240G/340GC | MC 1310 P |

TRANSISTORER

TRANSISTORS

| | | |
|---|---|---|
| Q1 | 282925-SM 240G/340GC | 40822 |
| Q3 | 324756-SM 240G/340GC | TIS 88A |
| Q4 | 243831-SM 240G/340GC | BF 194 |
| Q5 | 243831-SM 240G/340GC | BF 194 |
| Q6 | 243831-SM 240G/340GC | BF 194 |
| Q11 | 230291-SM 240G/340GC | BC 147 B |
| Q12 | 261776-SM 240G/340GC | 2N 5496 |
| Q13 | 230291-SM 240G/340GC | BC 147 B |
| Q20 | 246483-SM 240G/340GC | BC 149 C |
| Q21 | 246483-SM 240G/340GC | BC 149 C |
| Q22 | 246483-SM 240G/340GC | BC 149 C |
| Q23 | 246483-SM 240G/340GC | BC 149 C |
| Q24 | 246483-SM 240G/340GC | BC 149 C |
| Q25 | 325094-SM 240G/340GC | BC 548 B |
| Q26 | 230291-SM 240G/340 GC | BC 147 B |
| Q27 | 282617-SM 240G/340GC | MPS U06 |
| Q28 | 284298-SM 240G/340GC | MPS U56 |
| Q29 | 336042-SM 240G/340GC | 2N 6099 |
| Q30 | 336042-SM 240G/340GC | 2N 6099 |
| Q40 | 246483-SM 240G/340GC | BC 149 C |
| Q41 | 246483-SM 240G/340GC | BC 149 C |
| Q42 | 246483-SM 240G/340GC | BC 149 C |
| Q43 | 246483-SM 240G/340GC | BC 149 C |
| Q44 | 246483-SM 240G/340GC | BC 149 C |
| Q45 | 305094-SM 240G/340GC | BC 548 B |
| Q46 | 230291-SM 240G/340GC | BC 147 B |
| Q47 | 282617-SM 240G/340GC | MPS U06 |
| Q48 | 284298-SM 240G/340GC | MPS U 56 |
| Q49 | 336042-SM 240G/340GC | 2N 6099 |
| Q50 | 336042-SM 240G/340GC | 2N 6099 |
| Q501 | 231771-SM 240G/340GC | BC 147 A |
| Q502 | 231771-SM 240G/340GC | BC 147 A |
| Q503 | 231771-SM 240G/340GC | BC 147 A |
| Q504 | 231771-SM 240G/340GC | BC 147 A |
| Q505 | 231771-SM 240G/340GC | BC 147 A |
| Q506 | 231771-SM 240G/340GC | BC 147 A |

POTENSIOMETERE

POTENTIOMETERS

| Ref. nr | Oppgi dette ved bestilling<br>Specify this when ordering<br>Order No | Description |
|---|---|---|
| R398 | 319175-SM 240G/340GC | 100 kΩ, FM-preset, P1 |
| R399 | 319175-SM 240G/340GC | 100 kΩ, FM-preset, P2 |
| R400 | 319175-SM 240G/340GC | 100 kΩ, FM-preset, P3 |
| R401 | 319175-SM 240G/340GC | 100 kΩ, FM-preset, P4 |
| R402 | 262703-SM 240G/340GC | 10 kΩ, Varicap voltage |
| R403 | 262703-SM 240G/340GC | 10 kΩ, Varicap voltage |
| R404 | 264383-SM 240G/340GC | 50 kΩ, FM-indicator, tuning |
| R405 | 262703-SM 240G/340GC | 10 kΩ, AFC |
| R406 | 273106-SM 240G/340GC | 100 kΩ, FM-indicator, dial |
| R410 | 255226-SM 240G/340GC | 2 kΩ, AM-indicator |
| R411 | 317494-SM 240G/340GC | 22 kΩ, Volume |
| R412 | 327048-SM 240G/340GC | 22 kΩ, Treble |
| R413 | 327048-SM 240G/340GC | 22 kΩ, Bass |
| R414 | 320045-SM 240G/340GC | 2,2MΩ, Center voltage |
| R415 | 255226-SM 240G/340GC | 2 kΩ, Quiescent current |
| R417 | 261022-SM 240G/340GC | 5 kΩ, Outputmeter |
| R421 | 317494-SM 240G/340GC | 22 kΩ, Volume |
| R422 | 327048-SM 240G-340GC | 22 kΩ, Treble |
| R423 | 327048-SM 240G-340GC | 22 kΩ, Bass |
| R424 | 320045-SM 240G/340GC | 2,2MΩ, Center voltage |
| R425 | 255226-SM 240G/340GC | 2 kΩ, Quiescent current |
| R426 | 319815-SM 240G/340GC | 22 Ω, Ambiophonic |
| R427 | 261022-SM 240G/340GC | 5 Ω, Outputmeter |
| R503 | 289248-SM 240G/340GC | 5 Ω, 19 kHz, filter |
| R505 | 253020-SM 240G/340GC | 50 kΩ, Stereo/mono-switch |
| R523 | 273106-SM 240G/340GC | 100 kΩ, Channel separation |

BRYTERE, VENDERE

SWITCHES, SELECTORS

| | | |
|---|---|---|
| - | 31379 -SM 240G/340GC | Selector, main push-button unit |
| - | 311676-SM 240G/340GC | Selector, mains switch unit |
| - | 950213-SM 240G-340GC | Selector, mains switch section of 311676 |

KONDENSATORER

CONDENSERS

| | | |
|---|---|---|
| C1 | 219945-SM 240G/340GC | TRIKO GS A 788 13125 |
| C2 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C3 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C4 | 321014-SM 240G/340GC | 0,01 µF, Ker 2 |
| C5 | 252913-SM 240G/340GC | 2200 pF Ker 2 |
| C6 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C7 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C8 | 329082-SM 240G/340GC | 10 µF Elko |
| C9 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C10 | 219945-SM 240G/340GC | TRIKO GSA 788 13125 |
| C11 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C12 | 248078-SM 240G/340GC | 4,7 pF Ker 1 |
| C13 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C14 | 252913-SM 240G/340GC | 2200 pF Ker 2 |
| C15 | 323693-SM 240G/340GC | 22 pF Ker 1 |
| C16 | 263501-SM 240G/340GC | 1,4-6 pF TRIKO |
| C17 | 323399-SM 240G-340GC | 2200 pF Ker 2 |
| C18 | 320037-SM 240G/340GC | 1000 pF Ker 2 |
| C19 | 321014-SM 240G/340GC | 0,01 µF Ker 2 |
| C20 | 251224-SM 240G/340GC | 10 pF Ker 1 |
| C21 | 324045-SM 240G/340GC | 15 pF Ker 1 |
| C22 | 324103-SM 240G/340GC | 330 pF Ker 1 |
| C23 | 323399-SM 240G/340GC | 2200 pF Ker 2 |
| C24 | 321014-SM 240G/340GC | 0,01 µF Ker 2 |
| C26 | 320037-SM 240G/340GC | 1000 pF Ker 2 |
| C27 | 320037-SM 240G/340GC | 1000 pF Ker 2 |
| C28 | 320037-SM 240G/340GC | 1000 pF Ker 2 |
| C51 | 287078-SM 240G/340GC | 4700 pF Ker 2 |
| C52 | 287078-SM 240G/340GC | 4700 pF Ker 2 |
| C53 | 287078-SM 240G/340GC | 4700 pF Ker 2 |

KONDENSATORER

CONDENSERS

| Ref. nr | Oppgi dette ved bestilling / Specify this when ordering: Order No | Description | |
|---|---|---|---|
| C54 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C55 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C56 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C57 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C59 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C60 | 294018-SM 240G/340GC | 100 pF | P. Sty |
| C61 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C62 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C63 | 280735-SM 240G/340GC | 0,33 µF | Folie |
| C64 | 284097-SM 240G/340GC | 0,47 µF | Folie |
| C65 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C66 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C100 | 282379-SM 240G/340GC | 820 pF | P. Sty |
| C101 | 320275-SM 240G/340GC | 390 pF | P. Sty |
| C102 | 323973-SM 240G/340GC | 2-22 pF | TRIKO |
| C103 | 259930-SM 240G/340GC | 12 pF | Ker 1 |
| C104 | 322415-SM 240G/340GC | Rotating | KG 06-15 |
| C105 | 322415-SM 240G/340GC | Rotating | KG 06-15 |
| C106 | 323973-SM 240G/340GC | 2-22 pF | TRIKO |
| C107 | 323973-SM 240G/340GC | 2-22 pF | TRIKO |
| C108 | 278695-SM 240G/340GC | 82 pF | Ker 1 |
| C109 | 232999-SM 240G/340GC | 350 pF | P. Sty |
| C110 | 323973-SM 240G/340GC | 2-22 pF | TRIKO |
| C111 | 271971-SM 240G/340GC | 300 pF | P. Sty |
| C119 | 252841-SM 240G/340GC | 0,022 µF | Ker. 2 |
| C120 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C121 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C122 | 252216-SM 240G/340GC | 22 µF | Elko |
| C123 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C124 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C125 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C126 | 323558-SM 240G/340GC | 2200 pF | P. Sty |
| C127 | 321739-SM 240G/340GC | 1500 pF | P. Sty |
| C128 | 329081-SM 240G/340GC | 27 pF | Ker 1 |
| C129 | 323558-SM 240G/340GC | 2200 pF | P. Sty |
| C130 | 271619-SM 240G/340GC | 3300 pF | P. Sty |
| C131 | 271619-SM 240G/340GC | 3300 pF | P. Stv |
| C132 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C133 | 252913-SM 240G/340GC | 2200 pF | Ker 2 |
| C134 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C151 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C152 | 252561-SM 240G/340GC | 10 µF | Elko |
| C153 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C154 | 327357-SM 240G/340GC | 4000 µF | Elko |
| C155 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C156 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C158 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C159 | 292488-SM 240G/340GC | 470 µF | Elko |
| C160 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C161 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C162 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C163 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C200 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C201 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C202 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C203 | 252955-SM 240G/340GC | 100 pF | Ker 2 |
| C204 | 259522-SM 240G/340GC | 47 µF | Elko |
| C205 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C206 | 280814-SM 240G/340GC | 0,015 µF | Folie |
| C207 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C208 | 259522-SM 240G/340GC | 47 µF | Elko |
| C210 | 252955-SM 240G/340GC | 100 pF | Ker 2 |
| C211 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C212 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C213 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C214 | 280383-SM 240G/340GC | 0,47 µF | Folie |
| C215 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C216 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C217 | 251512-SM 240G/340GC | 1000 pF | Ker 2 |
| C218 | 282416-SM 240G/340GC | 0,33 µF | Folie |
| C219 | 284449-SM 240G/340GC | 0,22 µF | Folie |
| C220 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C221 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C222 | 257279-SM 240G/340GC | 4, 7 µF | Elko |
| C223 | 284449-SM 240G/340GC | 0,22 µF | Folie |
| C224 | 280814-SM 240G/340GC | 0,015 µF | Folie |
| C225 | 284449-SM 240G/340GC | 0,22 µF | Folie |
| C226 | 252561-SM 240G/340GC | 10 µF | Elko |

KONDENSATORER

CONDENSERS

| Ref. nr | OPPGI DETTE VED BESTILLING: Order No. | Description | |
|---|---|---|---|
| C227 | 251058-SM 240G/340GC | 68 pF | Ker 2 |
| C228 | 251058-SM 240G/340GC | 68 pF | Ker 2 |
| C229 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C230 | 259522-SM 240G/340GC | 47 µF | Elko |
| C231 | 285168-SM 240G/340GC | 2200 µF | Elko |
| C232 | 283824-SM 240G/340GC | 0,047 µF | Folie |
| C233 | 252913-SM 240G/340GC | 2200 pF | Ker 2 |
| C234 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C235 | 252216-SM 240G/340GC | 22 µF | Elko |
| C300 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C301 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C302 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C303 | 252955-SM 240G/340GC | 100 pF | Ker 2 |
| C304 | 259522-SM 240G/340GC | 47 µF | Elko |
| C305 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C306 | 280814-SM 240G/340GC | 0,015 µF | Folie |
| C307 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C308 | 259522-SM 240G/340GC | 47 µF | Elko |
| C310 | 252955-SM 240G/340GC | 100 pF | Ker 2 |
| C311 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C312 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C313 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C314 | 280383-SM 240G/340GC | 0,47 µF | Folie |
| C315 | 281439-SM 240G/340GC | 0,1 µF | Folie |
| C316 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C317 | 251512-SM 240G/340GC | 1000 pF | Ker 2 |
| C318 | 282416-SM 240G/340GC | 0,33 µF | Folie |
| C319 | 284449-SM 240G/340GC | 0,22 µF | Folie |
| C320 | 250535-SM 240G/340GC | 2,2 µF | Elko |
| C321 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C322 | 257279-SM 240G/340GC | 4,7 µF | Elko |
| C323 | 284449-SM 240G/340GC | 0,22 µF | Folie |
| C324 | 280814-SM 240G/340GC | 0,015 µF | Folie |
| C325 | 284449-SM 240G/340GC | 0,22 µF | Folie |
| C326 | 252561-SM 240G/340GC | 10 µF | Elko |
| C327 | 251058-SM 240G/340GC | 68 pF | Ker 2 |
| C328 | 251058-SM 240G/340GC | 68 pF | Ker 2 |
| C329 | 252841-SM 240G/340GC | 0,022 µF | Ker 2 |
| C330 | 259522-SM 240G/340GC | 47 µF | Elko |
| C331 | 285168-SM 240G/340GC | 2200 µF | Elko |
| C332 | 283824-SM 240G/340GC | 0,047 µF | Elko |
| C333 | 252913-SM 240G/340GC | 2200 pF | Ker 2 |
| C334 | 286101-SM 240G/340GC | 330 pF | Ker 2 |
| C335 | 252216-SM 240G/340GC | 22 µF | Elko |
| C500 | 259522-SM 240G/340GC | 47 µF | Elko |
| C501 | 283824-SM 240G/340GC | 0,047 µF | Folie |
| C502 | 282768-SM 240G/340GC | 0,22 µF | Folie |
| C503 | 282768-SM 240G/340GC | 0,22 µF | Folie |
| C504 | 286043-SM 240G/340GC | 0,47 µF | P. Kar. M |
| C505 | 249715-SM 240G/340GC | 470 pF | P. Sty |
| C506 | 280814-SM 240G/340GC | 0,015 µF | Folie |
| C507 | 280814-SM 240G/340GC | 0,015 µF | Folie |
| C508 | 271668-SM 240G/340GC | 0,47 µF | Tant |
| C509 | 271668-SM 240G/340GC | 0,47 µF | Tant |
| C510 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C511 | 251512-SM 240G/340GC | 1000 pF | Ker 2 |
| C512 | 287078-SM 240G/340GC | 4700 pF | Ker 2 |
| C513 | 251512-SM 240G/340GC | 1000 pF | Ker 2 |
| C514 | 206835-SM 240G/340GC | 220 pF | Ker 2 |

| Ref. No. | Oppgi dette ved bestilling<br>Specify this when ordering<br>Order No | Description | |
|---|---|---|---|
| MOTSTANDER<br>RESISTORS | | | |
| R1 | 219356-SM 240G/340GC | 100 kΩ | GBT-104 10% |
| R2 | 245541-SM 240G/340GC | 100 kΩ | UBT-103-9 10% |
| R3 | 246791-SM 240G/340GC | 68 kΩ | UBT-103-9 10% |
| R4 | 250469-SM 240G/340GC | 39 kΩ | UBT-103-9 10% |
| R5 | 250541-SM 240G/340GC | 330 kΩ | UBT-103-9 10% |
| R6 | 286862-SM 240G/340GC | 150 Ω | Sjikt 5% |
| R7 | 252582-SM 240G/340GC | 22 Ω | UBT-103-9 10% |
| R8 | 245541-SM 240G/340GC | 100 kΩ | UBT-103-9 10% |
| R9 | 249199-SM 240G/340GC | 27 kΩ | UBT-103-9 10% |
| R10 | 249199-SM 240G/340GC | 27 kΩ | UBT-103-9 10% |
| R11 | 254183-SM 240G/340GC | 2,7 kΩ | UBT-103-9 10% |
| R12 | 247337-SM 240G/340GC | 220 Ω | UBT-103-9 10% |
| R13 | 248666-SM 240G/340GC | 2,2 kΩ | UBT-103-9 10% |
| R14 | 248314-SM 240G/340GC | 4,7 kΩ | UBT-103-9 10% |
| R15 | 247337-SM 240G/340GC | 220 Ω | UBT-103-9 10% |
| R16 | 245541-SM 240G/340GC | 100 kΩ | UBT-103-9 10% |
| R17 | 245541-SM 240G/340GC | 100 kΩ | UBT-103-9 10% |
| R18 | 245541-SM 240G/340GC | 100 kΩ | UBT-103-9 10% |
| R19 | 245189-SM 240G/340GC | 1 MΩ | UBT-103-9 10% |
| R49 | 286431-SM 240G/340GC | 10 kΩ | Sjikt 5% |
| R50 | 285727-SM 240G/340GC | 56 kΩ | Sjikt 5% |
| R51 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R52 | 286862-SM 240G/340GC | 150 Ω | Sjikt 5% |
| R53 | 286431-SM 240G/340GC | 10 kΩ | Sjikt 5% |
| R54 | 286079-SM 240G/340GC | 22 kΩ | Sjikt 5% |
| R55 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt 5% |
| R56 | 288191-SM 240G/340GC | 330 Ω | Sjikt 5% |
| R57 | 292753-SM 240G/340GC | 1,8 kΩ | Sjikt 5% |
| R58 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt 5% |
| R59 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt 5% |
| R60 | 288191-SM 240G/340GC | 330 Ω | Sjikt 5% |
| R61 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R62 | 288191-SM 240G/340GC | 330 Ω | Sjikt 5% |
| R64 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R65 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt 5% |
| R66 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R67 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt 5% |
| R68 | 290368-SM 240G/340GC | 27 kΩ | Sjikt 5% |
| R69 | 289872-SM 240G/340GC | 470 Ω | Sjikt 5% |
| R70 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R71 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt 5% |
| R72 | 289089-SM 240G/340GC | 120 kΩ | Sjikt 5% |
| R81 | 287839-SM 240G/340GC | 820 Ω | Sjikt 5% |
| R82 | 323938-SM 240G/340GC | 15 kΩ | NTC 10% |
| R83 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R84 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R99 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R100 | 292049-SM 240G/340GC | 39 kΩ | Sjikt 5% |
| R101 | 285727-SM 240G/340GC | 56 kΩ | Sjikt 5% |
| R102 | 286079-SM 240G/340GC | 22 kΩ | Sjikt 5% |
| R103 | 294434-SM 240G/340GC | 8,2 kΩ | Sjikt 5% |
| R104 | 285181-SM 240G/340GC | 100 Ω | Sjikt 5% |
| R105 | 286431-SM 240G/340GC | 10 kΩ | Sjikt 5% |
| R106 | 286431-SM 240G/340GC | 10 kΩ | Sjikt 5% |
| R107 | 292049-SM 240G/340GC | 39 kΩ | Sjikt 5% |
| R108 | 286431-SM 240G/340GC | 10 kΩ | Sjikt 5% |
| R109 | 292753-SM 240G/340GC | 1,8 kΩ | Sjikt 5% |
| R120 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R121 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt 5% |
| R122 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt 5% |
| R123 | 292049-SM 240G/340GC | 39 kΩ | Sjikt 5% |
| R124 | 285375-SM 240G/340GC | 150 kΩ | Sjikt 5% |
| R125 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt 5% |
| R126 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R128 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R129 | 286158-SM 240G/340GC | 680 Ω | Sjikt 5% |
| R131 | 321905-SM 240G/340GC | 47 Ω | Tråd 10% 2W |
| R132 | 321905-SM 240G/340GC | 47 Ω | Tråd 10% 2W |
| R133 | 286158-SM 240G/340GC | 680 Ω | Sjikt 5% |
| R134 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R135 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R136 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R137 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt 5% |
| R138 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt 5% |
| R141 | 336351-SM 240G/340GC | 820 Ω | ABT 107 10% 1W |
| R142 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R143 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R144 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |

| Ref. No. | Oppgi dette ved bestilling<br>Specify this when ordering<br>Order No | Description | |
|---|---|---|---|
| MOTSTANDER<br>RESISTORS | | | |
| R145 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R146 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R147 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R148 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R149 | 336351-SM 240G/340GC | 820 Ω | ABT 107 10% 1W |
| R150 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R151 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R152 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R153 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R154 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R155 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R156 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R157 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R158 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R159 | 280944-SM 240G/340GC | 100 kΩ | Sjikt 5% |
| R201 | 285727-SM 240G/340GC | 56 kΩ | Sjikt 5% |
| R202 | 289520-SM 240G/340GC | 1 kΩ | Sjikt 5% |
| R203 | 289872-SM 240G/340GC | 470 Ω | Sjikt 5% |
| R204 | 287056-SM 240G/340GC | 220 kΩ | Sjikt 5% |
| R205 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R206 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R207 | 305633-SM 240G/340GC | 180 kΩ | Sjikt 5% |
| R208 | 305633-SM 240G/340GC | 180 kΩ | Sjikt 5% |
| R209 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R210 | 289441-SM 240G/340GC | 47 kΩ | Sjikt 5% |
| R211 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt 5% |
| R212 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R216 | 290031-SM 240G/340GC | 3,3 MΩ | Sjikt 5% |
| R217 | 290031-SM 240G/340GC | 3,3 MΩ | Sjikt 5% |
| R218 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt 5% |
| R220 | 282625-SM 240G/340GC | 470 kΩ | Sjikt 5% |
| R221 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt 5% |
| R222 | 290368-SM 240G/340GC | 27 kΩ | Sjikt 5% |
| R223 | 284658-SM 240G/340GC | 82 kΩ | Sjikt 5% |
| R224 | 289520-SM 240G/340GC | 1 kΩ | Sjikt 5% |
| R225 | 292753-SM 240G/340GC | 1,8 kΩ | Sjikt 5% |
| R226 | 289520-SM 240G/340GC | 1 kΩ | Sjikt 5% |
| R227 | 286079-SM 240G/340GC | 22 kΩ | Sjikt 5% |
| R228 | 287839-SM 240G/340GC | 820 Ω | Sjikt 5% |
| R229 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R230 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt 5% |
| R231 | 289441-SM 240G/340GC | 47 kΩ | Sjikt 5% |
| R232 | 285375-SM 240G/340GC | 150 kΩ | Sjikt 5% |
| R233 | 289872-SM 240G/340GC | 470 Ω | Sjikt 5% |
| R234 | 293105-SM 240G/340GC | 22 Ω | Sjikt 5% |
| R235 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt 5% |
| R236 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R237 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt 5% |
| R238 | 289872-SM 240G/340GC | 470 Ω | Sjikt 5% |
| R239 | 289872-SM 240G/340GC | 470 Ω | Sjikt 5% |
| R240 | 288464-SM 240G/340GC | 6,8 kΩ | Sjikt 5% |
| R241 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt 5% |
| R242 | 289520-SM 240G/340GC | 1 kΩ | Sjikt 5% |
| R243 | 288543-SM 240G/340GC | 220 Ω | Sjikt 5% |
| R244 | 288543-SM 240G/340GC | 220 Ω | Sjikt 5% |
| R245 | 284750-SM 240G/340GC | 0,47 Ω | Tråd 10% 2W |
| R246 | 284750-SM 240G/340GC | 0,47 Ω | Tråd 10% 2W |
| R247 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt 5% |
| R248 | 285533-SM 240G/340GC | 10 Ω | Sjikt 5% |
| R249 | 285533-SM 240G/340GC | 10 Ω | Sjikt 5% |
| R250 | 288543-SM 240G/340GC | 220 Ω | Sjikt 5% |
| R251 | 282875-SM 240G/340GC | 18 Ω | Tråd 10% 3W |
| R252 | 286510-SM 240G/340GC | 270 Ω | Sjikt 5% |
| R253 | 289520-SM 240G/340GC | 1 kΩ | Sjikt 5% |
| R254 | 294786-SM 240G/340GC | 47 Ω | Sjikt 5% |
| R301 | 285727-SM 240G/340GC | 56 kΩ | Sjikt 5% |
| R302 | 289520-SM 240G/340GC | 1 kΩ | Sjikt 5% |
| R303 | 289872-SM 240G/340GC | 470 Ω | Sjikt 5% |
| R304 | 287056-SM 240G/340GC | 220 kΩ | Sjikt 5% |
| R305 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R306 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R307 | 305633-SM 240G/340GC | 180 kΩ | Sjikt 5% |
| R308 | 305633-SM 240G/340GC | 180 kΩ | Sjikt 5% |
| R309 | 289793-SM 240G/340GC | 15 kΩ | Sjikt 5% |
| R310 | 289441-SM 240G/340GC | 47 kΩ | Sjikt 5% |
| R311 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt 5% |
| R312 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt 5% |
| R316 | 290031-SM 240G/340GC | 3,3 MΩ | Sjikt 5% |

| | Oppgi dette ved bestilling<br>Specify this when ordering | | | |
|---|---|---|---|---|
| Ref. No | Order No | Description | | |
| MOTSTANDER | | | | |
| RESISTORS | | | | |
| R317 | 290031-SM 240G/340GC | 3,3 MΩ | Sjikt | 5% |
| R318 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt | 5% |
| R320 | 282625-SM 240G/340GC | 470 kΩ | Sjikt | 5% |
| R321 | 285102-SM 240G/340GC | 4,7 kΩ | Sjikt | 5% |
| R322 | 290368-SM 240G/340GC | 27 kΩ | Sjikt | 5% |
| R323 | 284658-SM 240G/340GC | 82 kΩ | Sjikt | 5% |
| R324 | 289520-SM 240G/340GC | 1 kΩ | Sjikt | 5% |
| R325 | 292753-SM 240G/340GC | 1,8 kΩ | Sjikt | 5% |
| R326 | 289520-SM 240G/340GC | 1 kΩ | Sjikt | 5% |
| R327 | 286079-SM 240G/340GC | 22 kΩ | Sjikt | 5% |
| R328 | 287839-SM 240G/340GC | 820 Ω | Sjikt | 5% |
| R329 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt | 5% |
| R330 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt | 5% |
| R331 | 289441-SM 240G/340GC | 47 kΩ | Sjikt | 5% |
| R332 | 285375-SM 240G/340GC | 150 kΩ | Sjikt | 5% |
| R333 | 289872-SM 240G/340GC | 470 Ω | Sjikt | 5% |
| R334 | 293105-SM 240G/340GC | 22 Ω | Sjikt | 5% |
| R335 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt | 5% |
| R336 | 287487-SM 240G/340GC | 1,5 kΩ | Sjikt | 5% |
| R337 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt | 5% |
| R338 | 289872-SM 240G/340GC | 470 Ω | Sjikt | 5% |
| R339 | 289872-SM 240G/340GC | 470 Ω | Sjikt | 5% |
| R340 | 288464-SM 240G/340GC | 6,8 kΩ | Sjikt | 5% |
| R341 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt | 5% |
| R342 | 289520-SM 240G/340GC | 1 kΩ | Sjikt | 5% |
| R343 | 288543-SM 240G/340GC | 220 Ω | Sjikt | 5% |
| R344 | 288543-SM 240G/340GC | 220 Ω | Sjikt | 5% |
| R345 | 284750-SM 240G/340GC | 0,47 Ω | Tråd 10% | 2W |
| R346 | 284750-SM 240G/340GC | 0,47 Ω | Tråd 10% | 2W |
| R347 | 285454-SM 240G/340GC | 2,7 kΩ | Sjikt | 5% |
| R348 | 285533-SM 240G/340GC | 10 Ω | Sjikt | 5% |
| R349 | 285533-SM 240G/340GC | 10 Ω | Sjikt | 5% |
| R350 | 288543-SM 240G/340GC | 220 Ω | Sjikt | 5% |
| R351 | 282875-SM 240G/340GC | 18 Ω | Tråd 10% | 3W |
| R352 | 286510-SM 240G/340GC | 270 Ω | Sjikt | 5% |
| R353 | 289520-SM 240G/340GC | 1 kΩ | Sjikt | 5% |

| | Oppgi dette ved bestilling<br>Specify this when ordering | | | |
|---|---|---|---|---|
| Ref. No | Order No | Description | | |
| R354 | 294786-SM 240G/340GC | 47 Ω | Sjikt | 5% |
| R500 | 287214-SM 240G/340GC | 33 Ω | Sjikt | 5% |
| R501 | 289520-SM 240G/340GC | 1 kΩ | Sjikt | 5% |
| R502 | 306129-SM 240G/340GC | 16,2 kΩ | Met. Film | 1% |
| R504 | 286079-SM 240G/340GC | 22 kΩ | Sjikt | 5% |
| R506 | 287760-SM 240G/340GC | 33 kΩ | Sjikt | 5% |
| R507 | 288112-SM 240G/340GC | 12 kΩ | Sjikt | 5% |
| R508 | 285023-SM 240G/340GC | 1 MΩ | Sjikt | 5% |
| R509 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt | 5% |
| R510 | 288816-SM 240G/340GC | 3,9 kΩ | Sjikt | 5% |
| R511 | 287056-SM 240G/340GC | 220 kΩ | Sjikt | 5% |
| R512 | 287056-SM 240G/340GC | 220 kΩ | Sjikt | 5% |
| R513 | 294564-SM 240G/340GC | 820 kΩ | Sjikt | 5% |
| R514 | 294564-SM 240G/340GC | 820 kΩ | Sjikt | 5% |
| R515 | 286431-SM 240G/340GC | 10 kΩ | Sjikt | 5% |
| R516 | 292753-SM 240G/340GC | 1,8 kΩ | Sjikt | 5% |
| R517 | 286431-SM 240G/340GC | 10 kΩ | Sjikt | 5% |
| R518 | 292753-SM 240G/340GC | 1,8 kΩ | Sjikt | 5% |
| R519 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt | 5% |
| R520 | 289168-SM 240G/340GC | 2,2 kΩ | Sjikt | 5% |
| R521 | 286431-SM 240G/340GC | 10 kΩ | Sjikt | 5% |
| R522 | 286431-SM 240G/340GC | 10 kΩ | Sjikt | 5% |
| SPOLER | | | | |
| COILS | | | | |
| L5 | 980153-SM 240G/340GC | IF 1 Primary coil | | |
| L6 | 980154-SM 240G/340GC | IF 1 Secondary coil | | |
| L11 | 980192-SM 240G/340GC | FM Detector | | |
| L12 | 283846-SM 240G/340GC | ELO 810 SK-150 k with kinked lead | | |
| L21 | 980104-SM 240G/340GC | Drossel | | |
| L31 | 980104-SM 240G/340GC | Drossel | | |
| L101 | 980184-SM 240G/340GC | MW-input | | |
| L102 | 980185-SM 240G/340GC | LW-input | | |
| L103 | 980186-SM 240G/340GC | Osc. AM | | |
| L104 | 980187-SM 240G/340GC | IF-trap | | |
| L106 | 980189-SM 240G/340GC | IF-primary circuit | | |
| L107 | 980190-SM 240G/340GC | IF-secondary circuit | | |
| L108 | 980191-SM 240G/340GC | AM-detector | | |

# ELEKTRISKE DELER
## Spesielt for SM 340GC
# ELECTRICAL PARTS
## Special for SM 340GC

| | Oppgi dette ved bestilling<br>Specify this when ordering | | |
|---|---|---|---|
| Ref. No | Order No | Description | |
| DIODER | | | |
| DIODES | | | |
| CR401 | 289851-SM 340GC | BA 219 | |
| CR402 | 289851-SM 340GC | BA 219 | |
| CR501 | 289851-SM 340GC | BA 219 | |
| CR502 | 289851-SM 340GC | BA 219 | |
| CR601 | 274678-SM 340GC | IN 5243 B | Zener 13V |
| CR602 | 247007-SM 340GC | IN 4148 | |
| CR603 | 247007-SM 340GC | IN 4148 | |
| CR604 | 248092-SM 340GC | BYX 10 | |
| CR801 | 247007-SM 340GC | IN 4148 | |
| CR802 | 247007-SM 340GC | IN 4148 | |
| CR803 | 247007-SM 340GC | IN 4148 | |
| TRANSISTORER | | | |
| TRANSISTORS | | | |
| Q401 | 246483-SM 340GC | BC 149 C | |
| Q402 | 246483-SM 340GC | BC 149 C | |
| Q403 | 246483-SM 340GC | BC 149 C | |
| Q404 | 246483-SM 340GC | BC 149 C | |
| Q405 | 246483-SM 340GC | BC 149 C | |
| Q501 | 246483-SM 340GC | BC 149 C | |
| Q502 | 246483-SM 340GC | BC 149 C | |
| Q503 | 246483-SM 340GC | BC 149 C | |
| Q504 | 246483-SM 340GC | BC 149 C | |
| Q505 | 246483-SM 340GC | BC 149 C | |
| Q603 | 246483-SM 340 GC | BC 149 C | |
| Q604 | 261776-SM 340GC | 2N 5496 | |
| Q605 | 246483-SM 340GC | BC 149 C | |
| Q606 | 246483-SM 340GC | BC 149 C | |
| Q607 | 261776-SM 340GC | 2N 5496 | |
| Q701 | 246483-SM 340GC | BC 149 C | |
| Q702 | 246483-SM 340GC | BC 149 C | |
| Q801 | 246483-SM 340GC | BC 149 C | |
| Q802 | 264881-SM 340GC | 2N 5462 | |
| Q803 | 264881-SM 340GC | 2N 5462 | |

| | Oppgi dette ved bestilling<br>Specify this when ordering | | |
|---|---|---|---|
| Ref. No | Order No | Description | |
| POTENSIOMETERE | | | |
| POTENTIOMETERS | | | |
| R701 | 264384-SM 340GC | 50 kΩ | |
| R801 | 260002-SM 340GC | 250 kΩ | |
| VENDERE | | | |
| SWITCHES | | | |
| - | 330726-SM 340GC | AGC. KR | |
| - | 318004-SM 340GC | REC/PLAY | |
| - | 319685-SM 340GC | CASS. FRONT | |
| KONDENSATORER | | | |
| CONDENSERS | | | |
| C401 | 329943-SM 340GC | 4,7 μF | Elko |
| C402 | 353897-SM 340GC | 100 μF | Elko |
| C403 | 251683-SM 340GC | 47 pF | Ker. 2 |
| C404 | 258983-SM 340GC | 820 pF | Ker. 2 |
| C405 | 252955-SM 340GC | 100 pF | Ker. 2 |
| C406 | 257279-SM 340GC | 4,7 μF | Elko |
| C407 | 285777-SM 340GC | 220 μF | Elko |
| C408 | 257279-SM 340GC | 4,7 μF | Elko |
| C409 | 284176-SM 340GC | 0,022 μF | Folie |
| C410 | 253897-SM 340GC | 100 μF | Elko |
| C411 | 252216-SM 340GC | 22 μF | Elko |
| C412 | 285777-SM 340GC | 220 μF | Elko |
| C413 | 287078-SM 340GC | 4700 pF | Ker. 2 |
| C414 | 282847-SM 340GC | 0,01 μF | Folie |
| C415 | 283120-SM 340GC | 0,1 μF | Folie |
| C416 | 283120-SM 340GC | 0,1 μF | Folie |
| C418 | 283120-SM 340GC | 0,1 μF | Folie |
| C419 | 289894-SM 340GC | 15 pF | Ker. 2 |
| C420 | 254068-SM 340GC | 470 pF | Ker. 2 |
| C501 | 329943-SM 340GC | 4,7 μF | Elko |
| C502 | 253897-SM 340GC | 100 μF | Elko |

| | Oppgi dette ved bestilling<br>Specify this when ordering | | | |
|---|---|---|---|---|
| Ref. No | Order No | Description | | |
| KONDENSATORER | | | | |
| CONDENSERS | | | | |
| C503 | 251683-SM 340GC | 47 pF | Ker. 2 | |
| C504 | 258983-SM 340GC | 820 pF | Ker. 2 | |
| C505 | 252955-SM 340GC | 100 pF | Ker. 2 | |
| C506 | 257279-SM 340GC | 4,7 µF | Elko | |
| C507 | 285777-SM 340GC | 220 µF | Elko | |
| C508 | 257279-SM 340GC | 4,7 µF | Elko | |
| C509 | 284176-SM 340GC | 0,022 µF | Folie | |
| C510 | 253897-SM 340GC | 100 µF | Elko | |
| C511 | 252216-SM 340GC | 22 µF | Elko | |
| C512 | 285777-SM 340GC | 220 µF | Elko | |
| C513 | 287078-SM 340GC | 4700 pF | Ker. 2 | |
| C514 | 282847-SM 340GC | 0,01 µF | Folie | |
| C515 | 283120-SM 340GC | 0,1 µF | Folie | |
| C516 | 283120-SM 340GC | 0,1 µF | Folie | |
| C518 | 283120-SM 340GC | 0,1 µF | Folie | |
| C519 | 289894-SM 340GC | 15 pF | Ker. 2 | |
| C520 | 254068-SM 340GC | 470 pF | Ker. 2 | |
| C606 | 285777-SM 340GC | 220 µF | Elko | |
| C607 | 257279-SM 340GC | 4,7 µF | Elko | |
| C608 | 290807-SM 340GC | 220 µF | Elko | |
| C609 | 259522-SM 340GC | 47 µF | Elko | |
| C610 | 259522-SM 340GC | 47 µF | Elko | |
| C611 | 290807-SM 340GC | 220 µF | Elko | |
| C613 | 309463-SM 340GC | 100 µF | Elko | |
| C701 | 309786-SM 340GC | 10-60 pF | Triko | |
| C702 | 319786-SM 340GC | 10-60pF | Triko | |
| C703 | 282847-SM 340GC | 0,01 µF | Folie | |
| C704 | 250535-SM 340GC | 2,2 µF | Elko | |
| C705 | 281870-SM 340GC | 3300 pF | Folie | |
| C706 | 306696-SM 340GC | 0,01 µF | P. Kar. M | |
| C707 | 306696-SM 340GC | 0,01 µF | P. Kar. M | |
| C708 | 306696-SM 340GC | 0,01 µF | P. Kar. M | |
| C709 | 251683-SM 340GC | 47 pF | Ker. 2 | |
| C710 | 251683-SM 340GC | 47 pF | Ker. 2 | |
| C801 | 283120-SM 340GC | 0,1 µF | Folie | |
| C802 | 252561-SM 340GC | 10 µF | Elko | |
| C803 | 250535-SM 340GC | 2,2 µF | Elko | |
| C804 | 283120-SM 340GC | 0,1 µF | Folie | |
| C805 | 280814-SM 340GC | 0,015 µF | Folie | |
| C806 | 280814-SM 340GC | 0,015 µF | Folie | |
| MOTSTANDER | | | | |
| RESISTORS | | | | |
| R242 | 289872-SM 340GC | 470 Ω | Sjikt | 5% |
| R401 | 280944-SM 340GC | 100 kΩ | Sjikt | 5% |
| R402 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% |
| R403 | 285181-SM 340GC | 100 Ω | Sjikt | 5% |
| R404 | 289793-SM 340GC | 15 kΩ | Sjikt | 5% |
| R405 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% |
| R406 | 285102-SM 340GC | 4,7 kΩ | Sjikt | 5% |
| R407 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% |
| R408 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% |
| R409 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% |
| R410 | 285454-SM 340GC | 2,7 kΩ | Sjikt | 5% |
| R411 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% |
| R412 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% |
| R413 | 285454-SM 340GC | 2,7 kΩ | Sjikt | 5% |
| R414 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% |
| R415 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% |
| R416 | 290368-SM 340GC | 27 kΩ | Sjikt | 5% |
| R417 | 289872-SM 340GC | 470 Ω | Sjikt | 5% |
| R418 | 289793-SM 340GC | 15 kΩ | Sjikt | 5% |
| R419 | 288464-SM 340GC | 6,8 kΩ | Sjikt | 5% |
| R420 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% |
| R421 | 289872-SM 340GC | 470 Ω | Sjikt | 5% |
| R422 | 294082-SM 340GC | 18 kΩ | Sjikt | 5% |
| R423 | 285454-SM 340GC | 2,7 kΩ | Sjikt | 5% |
| R425 | 294922-SM 340GC | 560 Ω | Sjikt | 5% |
| R426 | 294922-SM 340GC | 560 Ω | Sjikt | 5% |
| R427 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% |
| R428 | 280944-SM 340GC | 100 kΩ | Sjikt | 5% |
| R429 | 288112-SM 340GC | 12 kΩ | Sjikt | 5% |
| R431 | 292049-SM 340GC | 39 kΩ | Sjikt | 5% |

| | Oppgi dette ved bestilling<br>Specify this when ordering | | | | |
|---|---|---|---|---|---|
| Ref. No | Order No | Description | | | |
| MOTSTANDER | | | | | |
| RESISTORS | | | | | |
| R501 | 280944-SM 340GC | 100 kΩ | Sjikt | 5% | |
| R502 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% | |
| R503 | 285181-SM 340GC | 100 Ω | Sjikt | 5% | |
| R504 | 289793-SM 340GC | 15 kΩ | Sjikt | 5% | |
| R505 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% | |
| R506 | 285102-SM 340GC | 4,7 kΩ | Sjikt | 5% | |
| R507 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% | |
| R508 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% | |
| R509 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% | |
| R510 | 285454-SM 340GC | 2,7 kΩ | Sjikt | 5% | |
| R511 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% | |
| R512 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% | |
| R513 | 285454-SM 340GC | 2,7 kΩ | Sjikt | 5% | |
| R514 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% | |
| R515 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% | |
| R516 | 290368-SM 340GC | 27 kΩ | Sjikt | 5% | |
| R517 | 289872-SM 340GC | 470 Ω | Sjikt | 5% | |
| R518 | 289793-SM 340GC | 15 kΩ | Sjikt | 5% | |
| R519 | 288464-SM 340GC | 6,8 kΩ | Sjikt | 5% | |
| R520 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% | |
| R521 | 289872-SM 340GC | 470 Ω | Sjikt | 5% | |
| R522 | 294082-SM 340GC | 18 kΩ | Sjikt | 5% | |
| R523 | 285454-SM 340GC | 2,7 kΩ | Sjikt | 5% | |
| R524 | 289872-SM 340GC | 470 Ω | Sjikt | 5% | |
| R525 | 294922-SM 340GC | 560 Ω | Sjikt | 5% | |
| R526 | 294922-SM 340GC | 560 Ω | Sjikt | 5% | |
| R527 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% | |
| R528 | 280944-SM 340GC | 100 kΩ | Sjikt | 5% | |
| R529 | 288112-SM 340GC | 12 kΩ | Sjikt | 5% | |
| R531 | 292049-SM 340GC | 39 kΩ | Sjikt | 5% | |
| R603 | 269398-SM 340GC | 4,7 Ω | Sjikt | 5% | |
| R604 | 289872-SM 340GC | 470 Ω | Sjikt | 5% | |
| R605 | 285023-SM 340GC | 1 MΩ | Sjikt | 5% | |
| R606 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% | |
| R607 | 292753-SM 340GC | 1,8 kΩ | Sjikt | 5% | |
| R608 | 322609-SM 340GC | 120 Ω | ABT 107 | 10% | 1W |
| R609 | 287487-SM 340GC | 1,5 kΩ | Sjikt | 10% | |
| R610 | 287056-SM 340GC | 220 kΩ | | | |
| R611 | 289441-SM 340GC | 47 kΩ | | | |
| R612 | 285102-SM 340GC | 4,7 kΩ | | | |
| R614 | 286079-SM 340GC | 22 kΩ | | | |
| R615 | 285454-SM 340GC | 2,7 kΩ | | | |
| R616 | 289520-SM 340GC | 1 kΩ | | | |
| R617 | 322961-SM 340GC | 0,56 Ω | Tråd | 10% | 1W |
| R618 | 285102-SM 340GC | 4,7 kΩ | Sjikt | 5% | |
| R622 | 289520-SM 340GC | 1 kΩ | Sjikt | 5% | |
| R623 | 288464-SM 340GC | 6,8 kΩ | Sjikt | 5% | |
| R624 | 298184-SM 340GC | 2,2 Ω | Tråd | 10% | |
| R630 | 294786-SM 340GC | 47 Ω | Sjikt | 5% | |
| R631 | 294786-SM 340GC | 47 Ω | Sjikt | 5% | |
| R632 | 294786-SM 340GC | 47 Ω | Sjikt | 5% | |
| R633 | 294786-SM 340GC | 47 Ω | Sjikt | 5% | |
| R702 | 294485-SM 340GC | 18 Ω | Sjikt | 5% | |
| R703 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% | |
| R704 | 289441-SM 340GC | 47 kΩ | Sjikt | 5% | |
| R705 | 294485-SM 340GC | 18 Ω | Sjikt | 5% | |
| R706 | 285533-SM 340GC | 10 Ω | Sjikt | 5% | |
| R802 | 305633-SM 340GC | 180 kΩ | Sjikt | 5% | |
| R803 | 286079-SM 340GC | 22 kΩ | Sjikt | 5% | |
| R804 | 286431-SM 340GC | 10 kΩ | Sjikt | 5% | |
| R805 | 287487-SM 340GC | 1,5 kΩ | Sjikt | 5% | |
| R806 | 285023-SM 340GC | 1 MΩ | Sjikt | 5% | |
| R807 | 287056-SM 340GC | 220 kΩ | Sjikt | 5% | |
| R810 | 321905-SM 340GC | 47 Ω | Tråd | 10% | 2W |
| R811 | 321905-SM 340GC | 47 Ω | Tråd | 10% | 2W |
| R812 | 332164-SM 340GC | 180 Ω | ABT | 10% | 1W |
| SPOLER | | | | | |
| COILS | | | | | |
| L401 | 980168-SM 340GC | Correction no. 7775A | | | |
| L501 | 980168-SM 340GC | Correction no. 7775A | | | |
| T701 | 980142-SM 340GC | Transformer | | | |

## Diverse mekaniske deler, ikke vist på illustrasjonen SM 240G/SM 340GC felles

| Oppgi dette ved bestilling | |
|---|---|
| Best. nr | Beskrivelse |
| 310310-SM 240G/340GC | Avstandsstykke, hvit plast |
| 334383-SM 240G/340GC | Avstandsstykke, venderben, blå plast |
| 332717-SM 240G/340GC | Avstandsstykke, venderben, sort plast |
| 274715-SM 240G/340GC | Brakett, kjølefinne for Q27/28/47/48 |
| 332967-SM 240G/340GC | Brakett, feste FM-pots-plate |
| 265750-SM 240G/340GC | Fjær, sikring, bronsetråd 0,4 mm |
| 840031-SM 240G/340GC | Fjær, hodetlf. kontakt |
| 323528-SM 240G/340GC | Fjær, AM-viser |
| 313011-SM 240G/340GC | Holder, elko C154-4000 µF |
| 253573-SM 240G/340GC | Klammer, 6 mm for ledning |
| 247395-SM 240G/340GC | Klammer, 9 mm for ledning |
| 249737-SM 240G/340GC | Klammer, 12,5 mm for ledning |
| 950228-SM 240G/340GC | Ledning, FM-antenne |
| 253839-SM 240G/340GC | List, 4x7 mm selvkl. skumgummi sort (metervare) |
| 310210-SM 240G/340GC | Plate, 1 mm presspan for skyvepotm. |
| 319262-SM 240G/340GC | Plate, messing for Q25/45 |
| 338888-SM 240G/340GC | Vinkel, acetal for TL-kort, skyvepotm. |
| 318400-SM 240G/340GC* | Tryktkretskort, hovedplate, uten komp. t, 43012 |
| 317616-SM 240G/340GC | Tryktkretskort, høyttalerkontakter, uten komp. t 42757 |
| 950242-SM 240G/340GC | Tryktkretskort, høyttalerkontakter, med komp. |
| 318830-SM 240G/340GC | Tryktkretskort, skyvepotmeter, uten komp. t 42763 |
| 950245-SM 240G/340GC | Tryktkretskort, skyvepotmeter, med komp. |
| 315116-SM 240G/340GC | Tryktkretskort, FM-potmeter, uten komp. t 42769 |
| 950246-SM 240G/340GC | Tryktkretskort, FM-potmeter, med komp. |
| 317379-SM 240G/340GC | Tryktkretskort, nettbryter, uten komp. t 42780 |
| 950244-SM 240G/340GC | Tryktkretskort, nettbryter, med komp. |
| 339203-SM 240G/340GC* | Tryktkretskort, likeretter, uten komp. t 43308 |
| 950243-SM 240G/340GC* | Tryktkretskort, likeretter, med komp. |

## Diverse mekaniske deler, ikke vist på illustrasjonen SM 240G, spesielt

| Oppgi dette ved bestilling | |
|---|---|
| Best. nr | Beskrivelse |
| 337263-SM 240G | Holder, TK-plate, acetal |
| 335144-SM 240G | Skinne, TK-plate, fort. stålpl. |
| 335582A-SM 240G | Vinkel, kontakt, acetal |

## Diverse mekaniske deler, ikke vist på illustrasjonen SM 340GC, spesielt

| Oppgi dette ved bestilling | |
|---|---|
| Best. nr | |
| 320949-SM 340GC | Aksel for opptaksarm, stål |
| 319987-SM 340GC | Aksel for inn/avsp. vender, acetal (sitter i TK-plate) |
| 322630-SM 340GC | Arm, opptak, stålpl. |
| 318306-SM 340GC | Arm for inn/avsp. vender, acetal |
| 332702-SM 340GC | Avstandsstykke for venderben, rød plast |
| 332350-SM 340GC | Avstandsstykke for venderben, hvit plast |
| 321775-SM 340GC | Bryter, pause (mikrovender) |
| 950214-SM 340GC | Cassettedel komplett teak (kun innbytte) |
| 950215-SM 340GC | Cassettedel komplett palis (kun innbytte) |
| 950216-SM 340GC | Cassettedel komplett nøtt (kun innbytte) |
| 950241-SM 340GC | Cassettedel komplett sort (kun innbytte) |
| 333952-SM 340GC | Fjær |
| 323608-SM 340GC | Fotocelleenhet, komplett |
| 262143-SM 340GC | Holder, kontakt MPF 353-3 pins |
| 263220-SM 340GC | Holder, kontakt, MPF 357-7 pins |
| 260677-SM 340GC | Holder, kontakt, MPF 359-9 pins |
| 342127-SM 340GC | Holder, mikrovender (ny festemetode) |
| 227310-SM 340GC | Klammer, 6 mm nylon |
| 330805-SM 340GC | Kort TL, hodetlf. kontakter t. 43050 |
| 322314-SM 340GC | Krok, mikrovender, hvit plast |
| 322444-SM 340GC | Mutter M2, 6 mm D934 |
| 219162-SM 340GC | Mutter M3 mm D934 |
| 316273-SM 340GC | Plate, kjøleplate al. cass. print |
| 324053-SM 340GC | Ring, 3 mm spennring SP 220 |
| 230247-SM 340GC | Skive, 2mm fjærskive glatt B2 D127 |
| 324211-SM 340GC | Skive, 2,8 mm fjærskive 2,8 -3 mm |
| 242202-SM 340GC | Skive, 3,2 mm st. fjærskive A-D6798 ET Kadm. |
| 322372-SM 340GC | Skive 5,2 mm fjærskive sort B-D137 A10x5,2x0,5 |
| 333450A-SM 340GC | Skjerm, hodetlf. kontakt |
| 337164-SM 340GC | Skjerm, gnist alum. |
| 321036-SM 340GC | Vindu, telleverk |
| 332141-SM 340GC | Vinkel, feste cass. verk (ved tastaturet) |
| 330001-SM 340GC | Vinkel, feste cass. verk (bakre) |

*** I løpet av produksjonen er likeretterdelen blitt skilt fra hovedplaten. Vennligst spesifiser hvilken type når det bestilles tryktkretsplater.**

## Miscellaneous mechanical parts, not illustrated.
## (Common to SM 240G and 340GC)

Specify this when ordering

| Order No | Description |
|---|---|
| 310310-SM 240G/340GC | Spacer, white plastic |
| 334383-SM 240G/340GC | Spacer, selector tab, blue plastic |
| 332717-SM 240G/340GC | Spacer, selector tab, black plastic |
| 274715-SM 240G/340GC | Bracket, heatsink for Q27/28/47/48 |
| 332967-SM 240G/340GC | Bracket, fixing, FM pot. meter plate |
| 265750-SM 240G/340GC | Spring, fuse, bronze wire, 0,4 mm |
| 840031-SM 240G/340GC | Spring, head phone socket |
| 323528-SM 240G/340GC | Spring, AM pointer |
| 313011-SM 240G/340GC | Holder, Elko, C154-4000 μF |
| 253573-SM 240G/340GC | Clamp, 6 mm, for lead |
| 247395-SM 240G/340GC | Clamp, 9 mm, for lead |
| 249737-SM 240G/340GC | Clamp, 12,5 mm, for lead |
| 950228-SM 240G/340GC | Lead, FM aerial |
| 253839-SM 240G/340GC | Edging, 4x7 mm, self adhesive, foam rubber, black (by the metre) |
| 310210-SM 240G/340GC | Plate, 1 mm presspan for sliding, pot. meter |
| 319262-SM 240G/340GC | Plate, brass for Q25/45 |
| 338888-SM 240G/340GC | Angle, acetal for PC board sliding pot. meter |
| 318400-SM 240G/340GC* | Printed circuit board, main print, without comps, t 43012 |
| 317616-SM 240G/340GC | Printed circuit board, speaker contacts without comps, t 42757 |
| 950242-SM 240G/340GC | Printed circuit board, speaker contacts, with comps |
| 318830-SM 240G/340GC | Printed circuit board, slide pot. meter, without comps, t 42763 |
| 950245-SM 240G/340GC | Printed circuit board, slide pot. meter, with comps |
| 315116-SM 240G/340GC | Printed circuit board, FM-pot. meter, without comps, t 42769 |
| 950246-SM 240G/340GC | Printed circuit board, FM-pot. meter, with comps |
| 317379-SM 240G/340GC | Printed circuit board, mains switch, without comps, t 42780 |
| 950244-SM 240G/340GC | Printed circuit board, mains switch, with comps |
| 339203-SM 240G/340GC* | Printed circuit board, rectifier section, without comps, t 43308 |
| 950243-SM 240G/340GC* | Printed circuit board, rectifier section, with comps |

## Miscellaneous mechanical parts, not illustrated. Special for SM 240G

Specify this when ordering

| Order No | Description |
|---|---|
| 337263-SM 240G | Holder, Printed circuit board, acetal |
| 335144-SM 240G | Plate, Printed circuit, tin coated steel |
| 335582A-SM 240G | Angle, socket, acetal |

## Miscellaneous mechanical parts, not illustrated. Special for SM 340GC

| | |
|---|---|
| 320949-SM 340GC | Axle for take-up arm, steel |
| 319987-SM 340GC | Axle for record/play selector, acetal |
| 322630-SM 340GC | Arm, take-up, steel |
| 318306-SM 340GC | Arm, for rec/play selector, acetal |
| 332702-SM 340GC | Spacer for selector tab, red plastic |
| 332350-SM 340GC | Spacer for selector tab, white plastic |
| 321775-SM 340GC | Switch, pause (microswitch) |
| 333952-SM 340GC | Spring, microswitch |
| 323608-SM 340GC | Photo-cell unit, complete |
| 262143-SM 340GC | Holder, socket, MPF 353- 3 pins |
| 263220-SM 340GC | Holder, socket, MPF 357-7 pins |
| 260677-SM 340GC | Holder, socket, MPF 359-9 pins |
| 227310-SM 340GC | Clamp, 6 mm nylon |
| 330805-SM 340GC | Printed circuit board, head phone contacts t, 43050 |
| 322314-SM 340GC | Hook, mocroswitch, white plastic |
| 322444-SM 340GC | Nut, M2, 6 mm D934 |
| 219162-SM 340GC | Nut, M3 mm D934 |
| 316273-SM 340GC | Plate, coding plate, aluminium, cass. print |
| 324053-SM 340GC | Circlip, 3 mm SP 220 |
| 230247-SM 340GC | Washer, 2mm springwasher, smooth B2, D127 |
| 324211-SM 340GC | Washer, 2,8 mm springwasher, 2,8 - 3 mm |
| 242202-SM 340GC | Washer, 3,2 mm springwasher, A-D6798 ET Kadm. |
| 322372-SM 340GC | Washer, 5,2 mm springwasher, black B-D137 A10x5,2x0,5 |
| 333450 -SM 340GC | Shield, headphone contact |
| 337164-SM 340GC | Shield, spark, aluminium |
| 321036-SM 340GC | Window, revolution counter, |
| 332141-SM 340GC | Angle bracket, cassette section fixing (by push buttons) |
| 330001-SM 340GC | Angle bracket, cassette section fixing (rear) |
| 342127-SM 340GC | Holder, microswitch (new fixing method) |
| 950214-SM 340GC | Cassette section complete, teak (for exchange only) |
| 950215-SM 340GC | Cassette section complete, rosewood (for exchange only) |
| 950216-SM 340GC | Cassette section complete, walnut (for exchange only) |
| 950241-SM 340GC | Cassette section complete, black (for exchange only) |

* During production the rectifier section is separated from the main circuit board. Please specify which type when ordering PC-boards.

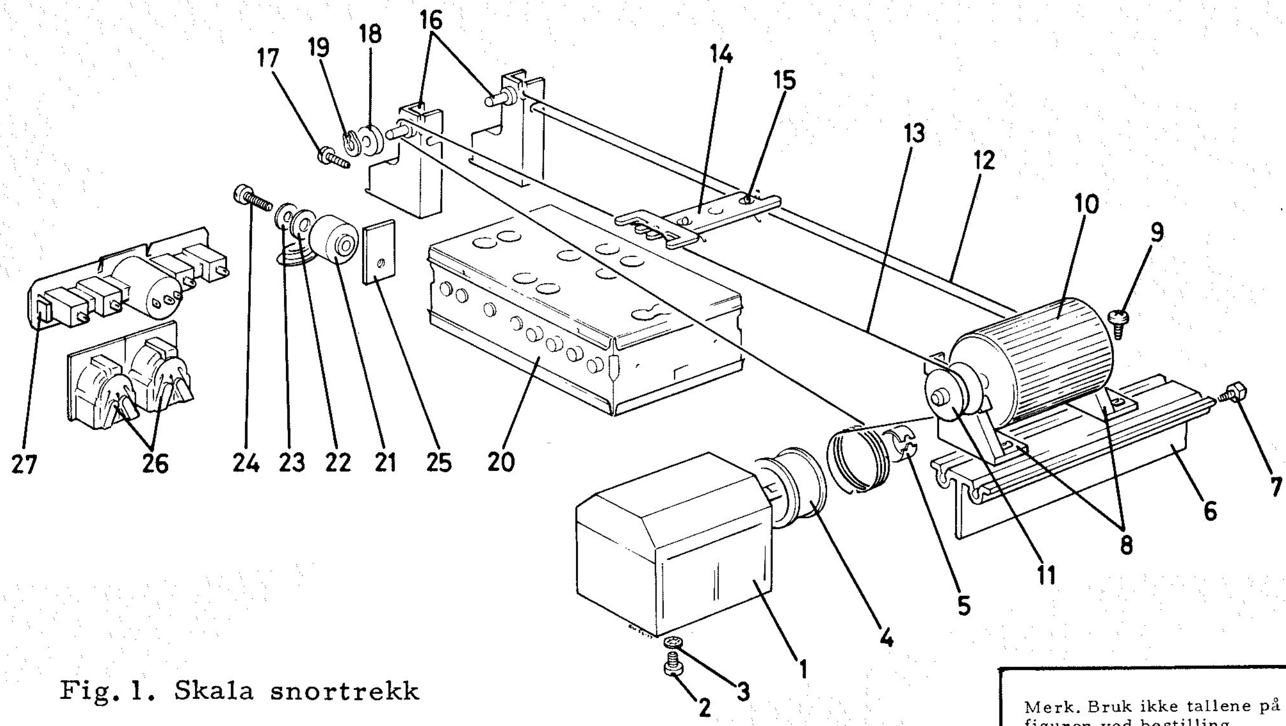



Fig. 1. Skala snortrekk
Dial cord drive

Merk. Bruk ikke tallene på figuren ved bestilling. Bestillingsnummerene finnes i listen.

Note. Do not use the numbers in the diagram when ordering. Order numbers are found in the list.

| | Ved bestilling, vennligst oppgi order no. og beskrivelse. When ordering, please specify order no. and description. | | |
|---|---|---|---|
| Ref. No | Order No | Beskrivelse | Description |
| 1 | 322415-SM 240G/340GC | Kondensator, dreie | Variable condenser |
| 2 | 322307-SM 240G/340GC | Skrue, 2.6x6 mm sink | Screw, 2,6 x 6 mm, zinc |
| 3 | 321395-SM 240G/340GC | Skive, 3.2 mm fjærskive | Washer, 3,2 mm spring washer |
| 4 | 323457-SM 240G/340GC | Hjul, snor AM, plast | Wheel, dial cord, AM, plastic |
| 5 | 324434-SM 240G/340GC | Ring, AM-hjul | Ring clip, AM wheel |
| 6 | 339390-SM 240G | Holder, AM-knapp, al.prof. SM 240G | Holder, AM button, aluminium profile |
| | 315310-SM 340GC | Holder, AM-knapp, al.prof. SM 340GC | Holder, AM button, aluminium profile |
| 7 | 292675-SM 240G/340GC | Skrue, 1/4"-4, 6k. sink | Screw, 1/4"-4 6k zinc |
| 8 | 319261-SM 240G/340GC | Holder, søkerknapp plast høyre | Holder, tuning-wheel, plastic right |
| | 322071-SM 240G/340GC | Holder, søkerknapp plast venstre | Holder, tuning-wheel, plastic left |
| 9 | 227209-SM 240G/340GC | Skrue, 1/4"-4 sink | Screw 1/4"-4 zinc |
| 10 | 323134-SM 240G/340GC | Knapp, AM-søker | Wheel, AM tuning |
| 11 | Included in ref. no. 10 | i ref. nr 10 | |
| 12 | 260261-SM 240G/340GC | Snor, 0.4 mm nylon (metervare) | Dial cord, 0,4 mm nylon (by the metre) |
| 13 | 321309-SM 240G/340GC | Snor, wire nr. 160 (metervare) | Dial cord, wire nr 160 (by the metre) |
| | 950212-SM 240G/340GC | Snor AM, ferdig | Dial cord, AM complete |
| 14 | 334656-SM 240G/340GC | Viser AM, plast, umontert | Pointer AM, plastic, unmounted |
| | 950211-SM 240G/340GC | Viser AM, montert med lysdioder og ledning | Pointer AM, mounted with light diode and lead |
| 15 | 332307-SM 240G/340GC | Diode RL-54, lysemitterende | Diode RL-54, light giving |
| 16 | 320390B-SM 240G/340GC | Brakett, trinsefeste, plast | Bracket, pulley fixing, plastic |
| 17 | 305900-SM 240G/340GC | Skrue, 5/16"-4 sink | Screw 5/16"-4 zinc |
| 18 | 320841-SM 240G/340GC | Trinse, AM-snor, messing | Pulley, AM cord, brass |
| 19 | 208431-SM 240G/340GC | Ring, 3 mm spennring SP220 | Circlip, 3 mm SP 220 |
| 20 | 950188-SM 240G/340GC | FM-tuner | FM tuner |
| 21 | 272703-SM 240G/340GC | Skive, isolasjon transistorfeste | Washer, transistor insulation |
| 22 | 217152-SM 240G/340GC | Skive, 9x4.3x0.8 mm | Washer, 9x4,3x0,8 mm |
| 23 | 252338-SM 240G/340GC | Skive, 3.2x8x0.5 | Washer, 3,2x8x0,5 mm |
| 24 | 282833-SM 240G/340GC | Skrue. 3x10 mm | Screw, 3x10 mm |
| 25 | 266368-SM 240G/340GC | Plate, transistorfeste | Plate, transistor fixing |
| 26 | 268832-SM 240G/340GC | Kontakt, bånd Mab 5 SH sort | Socket, tape, MAB 5 SH black |
| 27 | 312063-SM 240G/340GC | Kontakt, antenne 2403 | Socket, aerial 2403 |

m

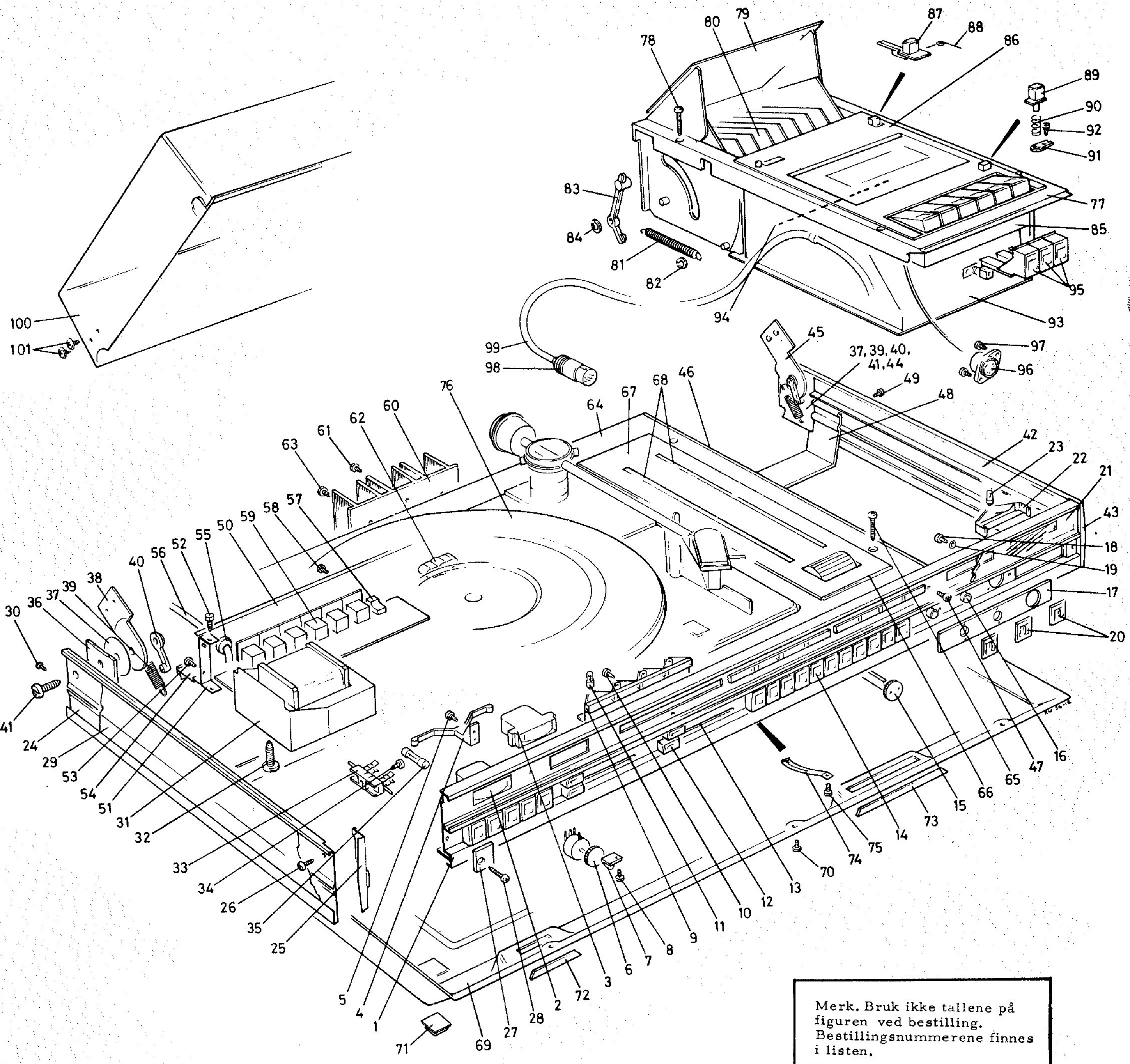



Fig. 2. Sjassideler

Chassis assembly

Merk. Bruk ikke tallene på figuren ved bestilling. Bestillingsnummerene finnes i listen.

Note. Do not use the numbers in the diagram when ordering. Order numbers are found in the list.

Pære i instrument: 55 16 04 12-15V 30mA

# MEKANISKE DELER FOR SM 340GC OG SM 240G

# MECHANICAL PARTS FOR SM 340GC AND SM 240G

Ved bestilling, vennligst oppgi order no. og beskrivelse.
When ordering, please specify order no. and description.

| Ref. No | Order No/Best. nr. | Beskrivelse | Description |
|---|---|---|---|
| 1 | 317623-SM 240G | Skinne, front | Front plate |
| | 312272-SM 340GC | Skinne, front | Front plate |
| 2 | 318198-SM 240G/340GC | Instrument, avst. ind | Instrument, range indicator |
| 3 | 316517-SM 240G/340GC | Instrument, skala FM | Instrument, dial FM |
| 4 | 330108-SM 240G/340GC | Vinkel, instrument, plast | Angle, instrument, plastic |
| 5 | 220392-SM 240G/340GC | Skrue, 1/4"-4 sink | Screw, 1/4"-4 zinc |
| 6 | 331006-SM 240G/340GC | Knapp, ambiofoni volum | Button, ambiophony, volume |
| 7 | 332687-SM 240G/340GC | Vinkel, lager for potm. aksel | Angle, housing for potentiometer axle |
| 8 | 305900-SM 240G/340GC | Skrue, 5/16"-4 sink | Screw, 5/16"-4 zinc |
| 9 | 319024-SM 240G/340GC | Holder, lamper | Holder, lamps |
| 10 | 220392-SM 240G/340GC | Skrue, 1/4"-4 sink | Screw 1/4"-4 zinc |
| 11 | 284471A-SM 240G/340GC | Lampe 14V 80 mA med 300 mm ledning | Bulb, 14V 80 mA with 300 mm lead |
| 12 | 317889-SM 240G/340GC | Knapp potmeter | Knob, potentiometer |
| 13 | 310735-SM 240G/340GC | Styring, potmeter | Guide, potentiometer |
| 14 | 319570-SM 240G/340GC | Knapp, hovedtastatur | Button, main pushbutton, unit |
| 15 | 319175-SM 240G/340GC | Potmeter 100 kohm med knapp, FM-preset | Potentiometer, 100 kΩ with knob, FM pre-set |
| 16 | 991605 -SM 240G | Kontakt, hodetlf. | Socket, headphones |
| | 950250-SM 340GC | Kontakt, hodetlf. | Socket, headphones |
| 17 | 339296-SM 240G | Plate SM 240G | Guide plate, plastic |
| | 315662-SM 340GC | Styring, plast SM 340GC | Guide plate, plastic |
| 18 | 322193-SM 340GC | Skrue, 3/16"-4 nikkel | Screw 3/16"-4 nickel |
| 19 | 323076-SM 340GC | Skive, 8x3.2x0 | Washer, 8x3,2x0 mm |
| 20 | 316208-SM 340GC | Knapp, luke ABS | Button, shutter ABS |
| 21 | 331129-SM 240G | Skala | Dial |
| 21 | 316991-SM 340GC | Skala | Dial |
| 22 | 333822-SM 340GC | Holder, lampe | Holder, lamp |
| 23 | 312710-SM 340GC | Lampe 14V 80 mA med 200 mm ledning | Bulb 14V 80 mA with 200 mm, lead |
| 24 | 316891A-SM 240G/340GC | Plate, venstre side, al. prof. | Plate, left side, aluminium profile |
| 25 | 330935-SM 240G/340GC | Deksel plast | Cover, plastic |
| 26 | 305900-SM 240G/340GC | Skrue, 5/16"-4 sink | Screw, 5/16"-4 zinc |
| 27 | 317343-SM 240G/340GC | Plate, ABS | Plate, ABS |
| 28 | 314570-SM 240G/340GC | Skrue, 3/4"-4 sort sink | Screw 3/4"-4 black zinc |
| 29 | 344096-SM 240G/340GC | Plate, ABS 350 mm | Plate, ABS 350 mm |
| 30 | 292718-SM 240G/340GC | Skrue, 1/4"-2 sink | Screw 1/4"-2 zinc |
| 31 | 332055-SM 240G/340GC | Trafo, nett | Transformer, power |
| 32 | 250786-SM 240G/340GC | Skrue, 3/4"-12 sink | Screw, 3/4"-12 zinc |
| 33 | 321107-SM 240G/340GC | Holder, sikring | Holder, fuse |
| 34 | 220392-SM 240G/340GC | Skrue, 1/4"-4 sink | Screw, 1/4"-4 zinc |
| 35 | 347895-SM 240G/340GC | Sikring 630 mAT, 5x20 mm (tidligere 500 mAT) | Fuse 630 m AS, 5x20 mm (previously used 500 mAS) |
| 36 | 321934-SM 240G/340GC | Plate, bak venstre | Plate, back, left |
| 37 | 320081-SM 240G/340GC | Skive, hengsel | Washer, hinge |
| 38 | 313176-SM 240G/340GC | Arm, hengsel venstre | Arm, hinge, left |
| 39 | 311143-SM 240G/340GC | Fjær, hengsel | Spring, hinge |
| 40 | 311495-SM 240G/340GC | Mutter, hengsel | Nut, hinge |
| 41 | 311999-SM 240G/340GC | Skrue 3/4"-10 sink | Screw 3/4"-10 zinc |
| 42 | 337148-SM 240G | Skinne, høyre side al. profil | Plate, right side, aluminium profile |
| | 319764-SM 340GC | Skinne, høyre side al. profil | Plate, right side, aluminium profile |
| 43 | 334649-SM 240G/340GC | Deksel, plast | Cover plastic |
| 44 | 320368A-SM 240G/340GC | Plate, bak høyre | Plate, back, right |
| 45 | 314857A-SM 240G | Arm, hengsel høyre | Arm, hinge, right |
| | 336797-SM 340GC | Arm, hengsel høyre | Arm, hinge, right |
| * | 950233-SM 240G | Hengselsett | Complete hinge set |
| * | 950234-SM 340GC | Hengselsett | Complete hinge set |
| 46 | 316014-SM 340GC | Skinne, al. skillevegg | Plate, aluminium separating wall |
| 47 | 305900-SM 240G/340GC | Skrue 5/16"-4 sink | Screw 5/16"-4 zinc |
| 48 | 319376-SM 240G/340GC | Bøyle, avstivning, al. profil | Hank, support, aluminium profile |
| 49 | 305900-SM 240G/340GC | Skrue 5/16"-4 sink | Screw 5/16"-4 zinc |
| 50 | 339253-SM 240G | Skinne, al. prof. bakvegg | Plate, aluminium profile, back wall |
| | 317695A-SM 340GC | Skinne, al. prof. bakvegg | Plate, aluminium profile, back wall |
| 51 | 321424-SM 240G/340GC | Vinkel side/bak | Angle bracket, side/back |
| 52 | 292675-SM 240G/340GC | Skrue 1/4"-4 6k. sink | Screw 1/4"-4 zinc |
| 53 | 305900-SM 240G/340GC | Skrue 5/16"-4 sink | Screw 5/16"-4 zinc |
| 54 | 330260-SM 240G | List, bakveggstrykk | Border, printed back wall |
| | 331861-SM 340GC | List, bakveggstrykk | Border, printed back wall |
| 55 | 281454-SM 240G/340GC | Tube, nettledning | Grommet, power cable |
| 56 | 335927-SM 240G/340GC | Nettledning, 230 cm grå m/støpsel | Power cable, 230 cm, grey, with plug |
| 57 | 334965-SM 240G/340GC | Knast, acetal | Lug, acetal |
| 58 | 305900-SM 240G/340GC | Skrue, 5/16"-4 sink | Screw, 5/16"-4 zinc |
| 59 | 267696-SM 240G/340GC | Kontakt, høyttalere, LB2G sort | Socket, speakers, LB2H, black |
| 60 | 314749A-SM 240G/340GC | Kjølefinne, al. profil, sort | Heat sink, aluminium profile, black |
| 61 | 305900-SM 240G/340GC | Skrue, 5/16"-4 sink | Screw 5/16"-4 zinc |
| 62 | 314103-SM 240G/340GC | Bøyle, transistorfeste | Hank, transistor, fastening |
| 63 | 241311-SM 240G/340GC | Skrue, 5/8"-6, 6k, sink | Screw, 5/8"-6 6k zinc |
| 64 | 337953-SM 240G | Plate, topp, teak foliert | Top plate, teak foliated |
| | 330504-SM 240G | Plate, topp, pal. foliert | Top plate, rosewood foliated |
| | 339634-SM 240G | Plate, topp, nøtt foliert | Top plate, walnut foliated |
| | 335920-SM 240G | Plate, topp, sort foliert | Top plate, black foliated |
| | 338305-SM 340GC | Plate, topp, teak foliert | Top plate, teak foliated |

* Omfatter ref. nr. 37, 38, 39, 40, 41, 45, 101
Includes ref. no. 37, 38, 39, 40, 41, 45, 101

| Ref. No | Ved bestilling, vennligst oppgi order no. og beskrivelse. When ordering, please specify order no. and description. Order No/Best. nr. | Beskrivelse | Description |
|---|---|---|---|
| 64 | 330503-SM 340GC | Plate, topp, pal. foliert | Top plate, rosewood foliated |
| | 339686-SM 340GC | Plate, topp, nøtt, foliert | Top plate, walnut foliated |
| | 336272-SM 340GC | Plate, topp, sort, foliert | Top plate, black foliated |
| 65 | 314570-SM 340GC | Skrue, 3/4"-4 sort sink | Screw 3/4"-5 black zinc |
| 66 | 321697-SM 340GC | Plate, skala endestykke plast | Plate, dial endpiece, plastic |
| 67 | 315210-SM 340GC | Plate, AM-skala | Plate, AM dial |
| 68 | 332415-SM 340GC | List, skalastripe, blå | Dial strip, blue |
| 69 | 333701-SM 240G | Deksel, bunn | Cover, bottom |
| | 310031-SM 340GC | Deksel, bunn | Cover, bottom |
| 70 | 324850-SM 240G/340GC | Skrue, 1/4"-4 sort sink | Screw, 1/4"-4 black zinc |
| 71 | 324297-SM 240G/340GC | Fot, gummi | Foot, rubber |
| 72 | 333449-SM 240G/340GC | Skilt, amb. volum | Motif, ambiophony volume |
| 73 | 331768-SM 240G/340GC | Skilt, P1-P4 | Motif, P1-P4 |
| 74 | 269743-SM 240G/340GC | Jordingsfjær | Earthing spring |
| 75 | 305900-SM 240G/340GC | Skrue, 5/16"-4 | Screw, 5/16"-4 |
| 76 | 341517-SM 240G/340GC | Spiller PE 3044 m/holder TK 14 u/element | Player, PE 3044 with holder TK 14, without element |
| | 344879-SM 240G/340GC | Pickup-element DMS 200 | Pick-up element DMS 200 |
| 77 | 336976-SM 340GC | Plate, topp cass. teak foliert | Plate, cassette top, teak foliated |
| | 315856-SM 340GC | Plate, topp cass. pal. foliert | Plate, cassette top, rosewood foliated |
| | 338657-SM 340GC | Plate, topp cass. nøtt foliert | Plate, cassette top, walnut foliated |
| | 336624-SM 340GC | Plate, topp cass. sort foliert | Plate, cassette top, black foliated |
| 78 | 337328-SM 340GC | Lokk, magasin, teak foliert | Cover, magazine, teak foliated |
| | 317185-SM 340GC | Lokk, magasin, pal. foliert | Cover, magazine, rosewood foliated |
| | 339009-SM 340GC | Lokk, magasin, nøtt foliert | Cover, magazine, walnut foliated |
| | 335295-SM 340GC | Lokk, magasin, sort foliert | Cover, magazine, black foliated |
| 79 | 319728-SM 340GC | Deksel, lokk, sort al. | Cover, black aluminium |
| 80 | 316639-SM 340GC | Magasin, cassetter | Magazine, cassettes |
| 81 | 332271-SM 340GC | Fjær, magasin | Spring, magazine |
| 82 | 201003-SM 340GC | Ring, 4 mm spennring SF 220 | Circlip, 4mm SP 220 |
| 83 | 318866-SM 340GC | Arm, magasinlokk | Arm, magazine cover |
| 84 | 217540-SM 340GC | Ring, 5 mm spennring SP 220 | Circlip 5 mm, SP 220 |
| 85 | 318672-SM 340GC | Kappe, tastatur, ABS | Casing, push button, ABS |
| 86 | 318047-SM 340GC | Deksel, topp, sort al. | Cover, top, black aluminium |
| 87 | 319218A-SM 340GC | Knapp, magasin | Button, magazine |
| 88 | 330590-SM 340GC | Fjær, magasinknapp | Spring, magazine button |
| 89 | 331509-SM 340GC | Knapp, cassettelokk | Button, cassette cover |
| 90 | 324663-SM 340GC | Fjær, utløserknapp | Spring, eject button |
| 91 | 324311-SM 340GC | Plate, utløserknapp | Plate, eject button |
| 92 | 305900-SM 340GC | Skrue, 5/16"-4 sink | Screw, 5/16"-4 zinc |
| 93 | 315440-SM 340GC | Kort TL cassettedel u/komponenter | Printed circuit board, without components |
| | 950240-SM 340GC | Kort TL cassettedel komplett | Printed circuit board, without components |
| 94 | 330230-SM 340GC | Cassetteverk komplett | Cassette deck, complete |
| 95 | 319025-SM 340GC | Knapp, Mic/Chr/DNF | Button, Mic/Chr./DNF |
| 96 | 316913-SM 340GC | Kontakt, mikrofon 5-pol | Socket, microphone, 3/3-016 5-pole |
| 97 | 220392-SM 340GC | Skrue, 1/4"-4 sink | Screw, 1/4"-4 zinc |
| 98 | 334325-SM 340GC | Plugg, MAS 500S grå 5-pins | Plug, MAS 500 S grey, 5-pins |
| 99 | 331754-SM 340GC | Skjermledning 4x0.08 YF-40S-K (metervare) | Screened cable 4x0,08 YF-40S-K |
| 100 | 325597-SM 240G | Støvdeksel | Dust cover |
| | 313041-SM 340GC | Støvdeksel | Dust cover |
| 101 | 297925-SM 240G/340GC | Skrue, 5/16"-6 sort sink | Screw, 5/16"-6 black zinc |

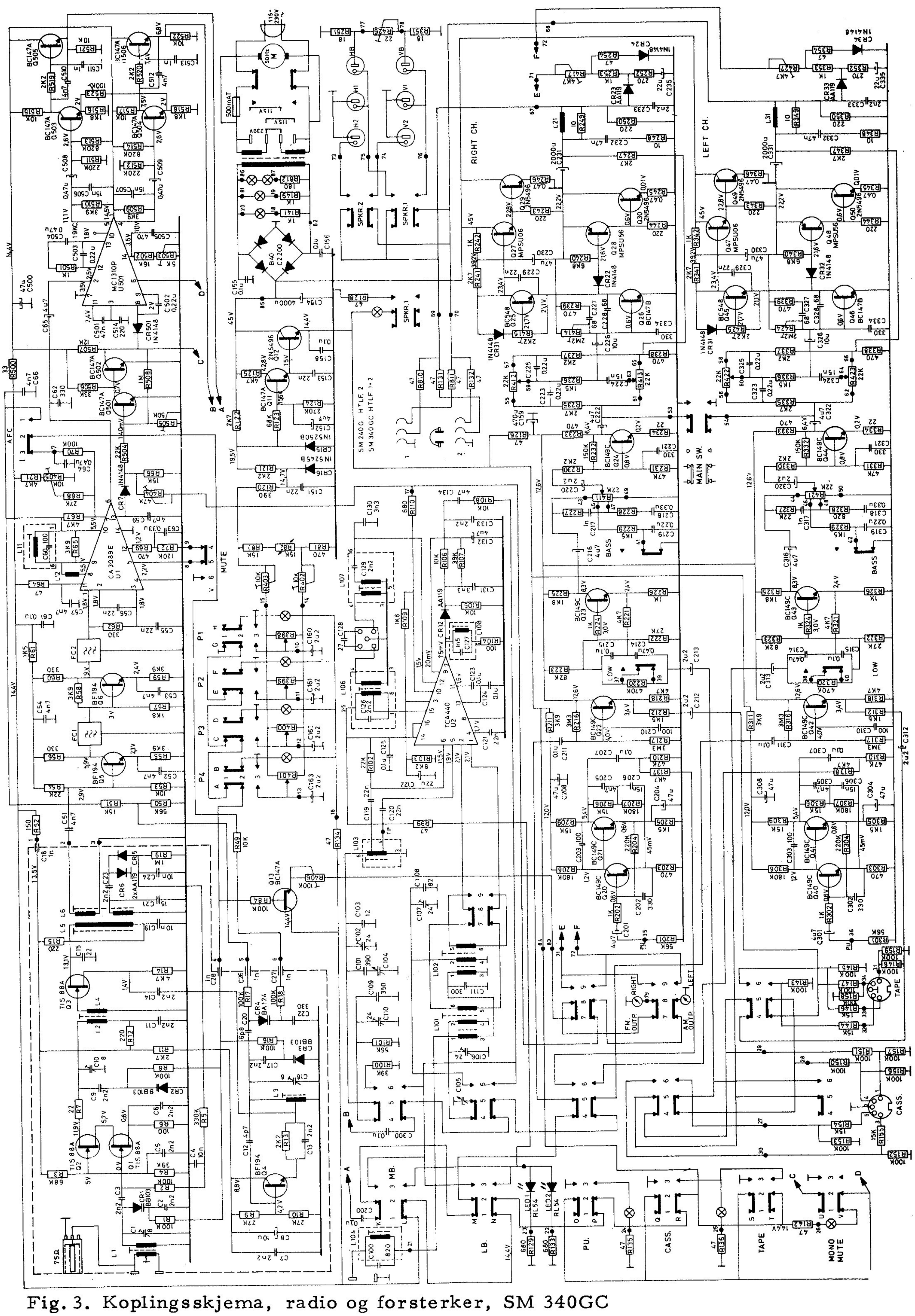


Fig. 3. Koplingsskjema, radio og forsterker, SM 340GC
Circuit diagram, tuner and amplifier, SM 340GC

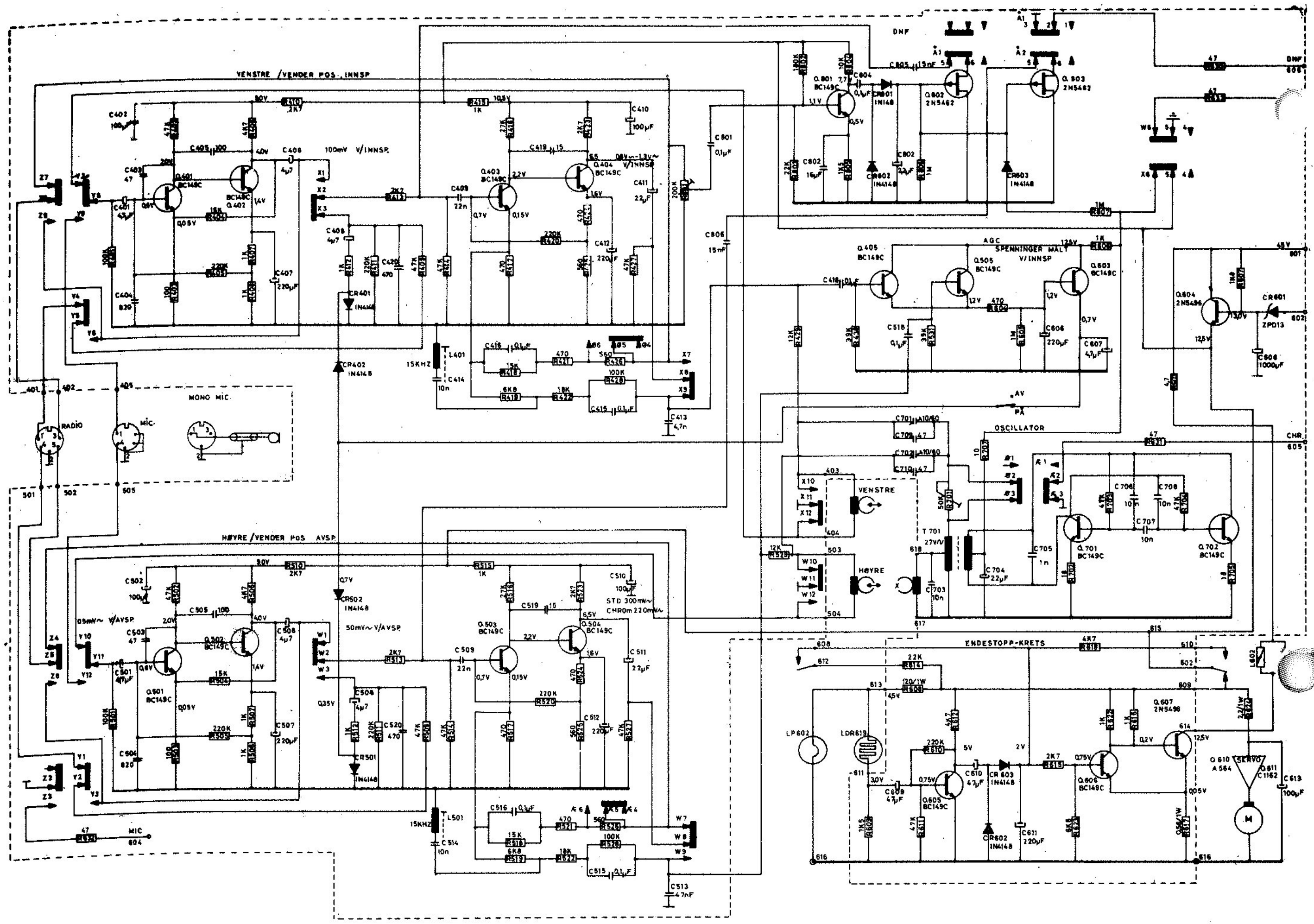


Fig. 4. Koplingsskjema, kassettdel, SM 340GC
Circuit diagram, cassette section, SM 340GC

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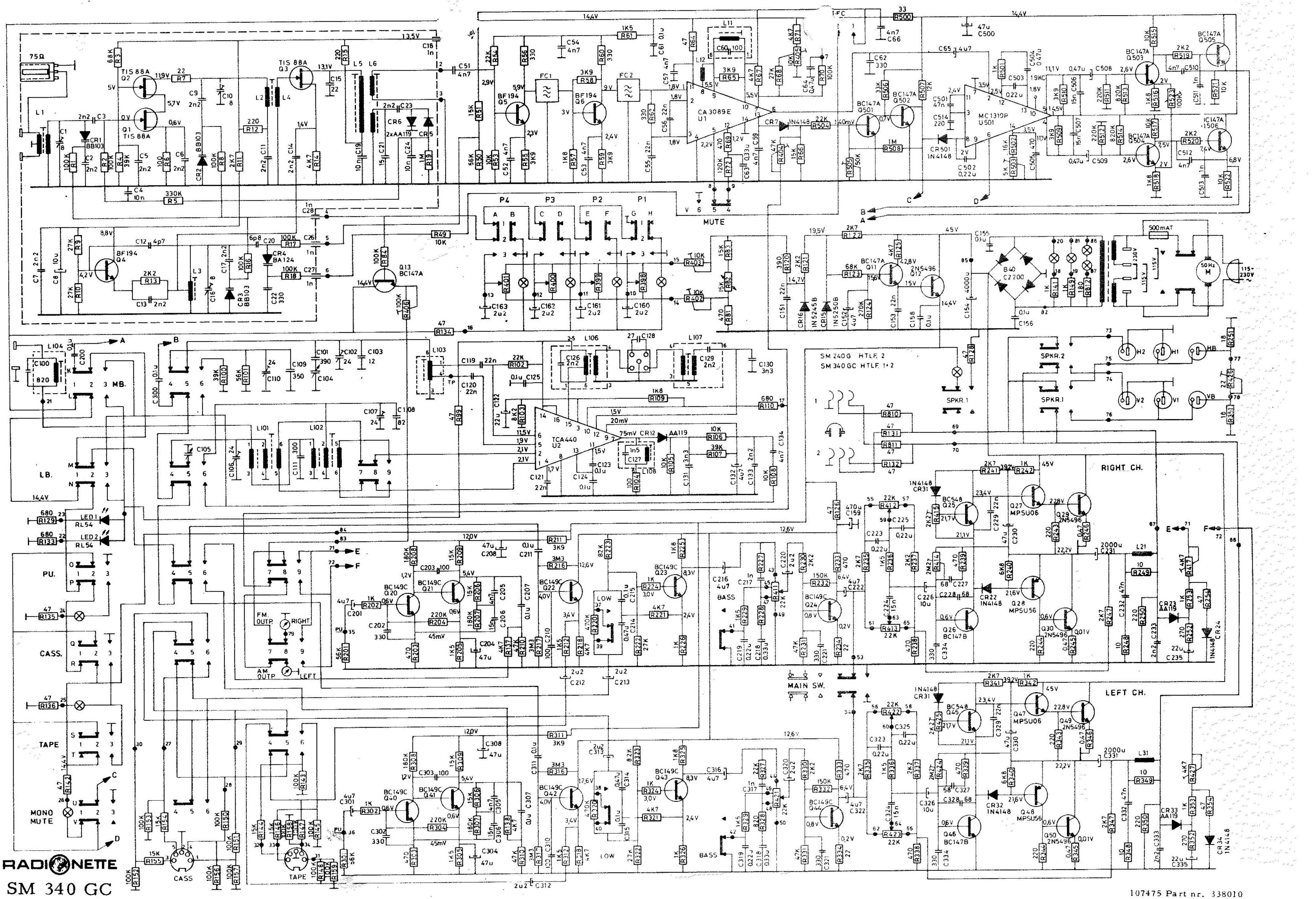


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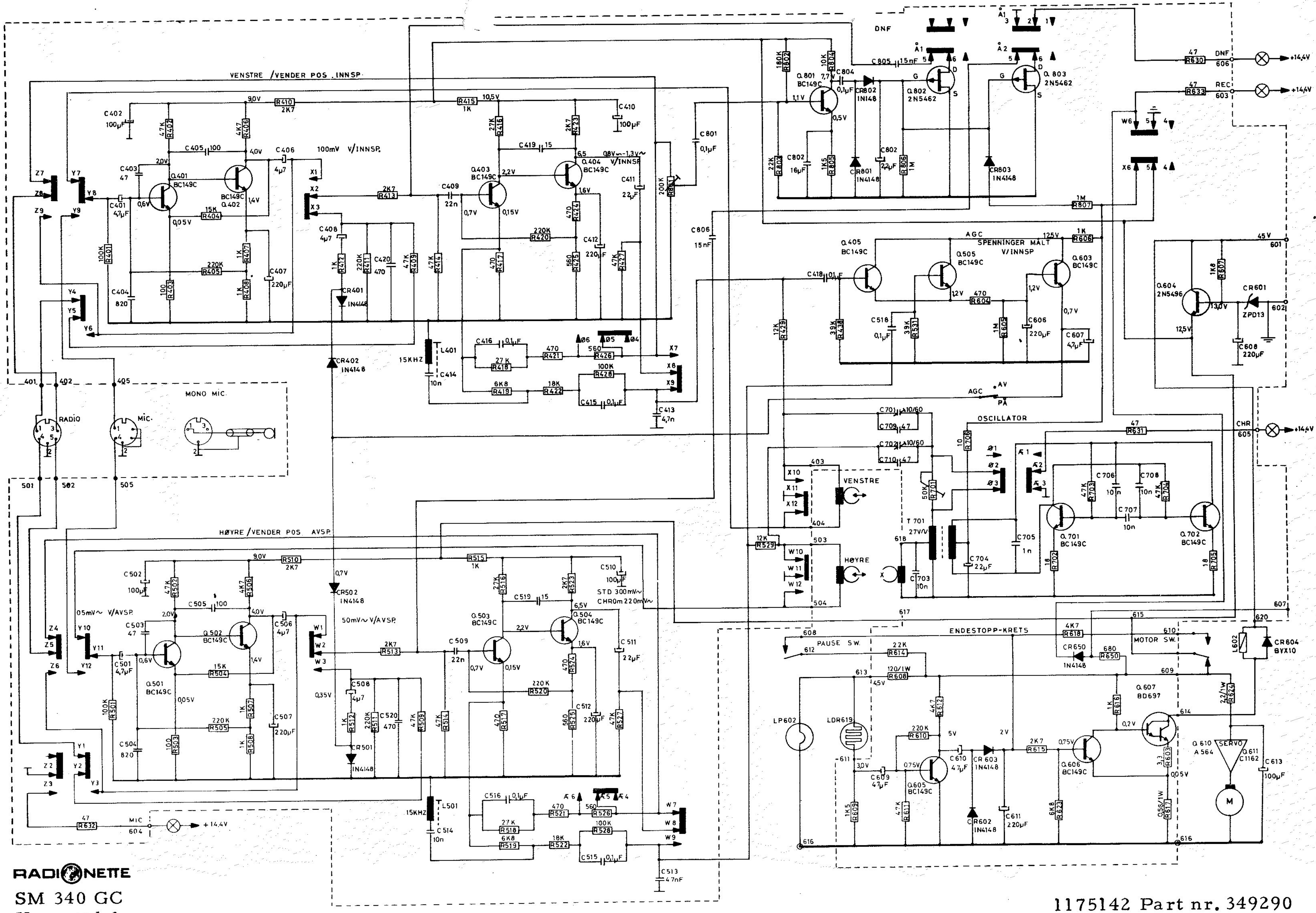
SM 340 GC
Radiodel

107475 Part nr. 338010

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Kassettdel

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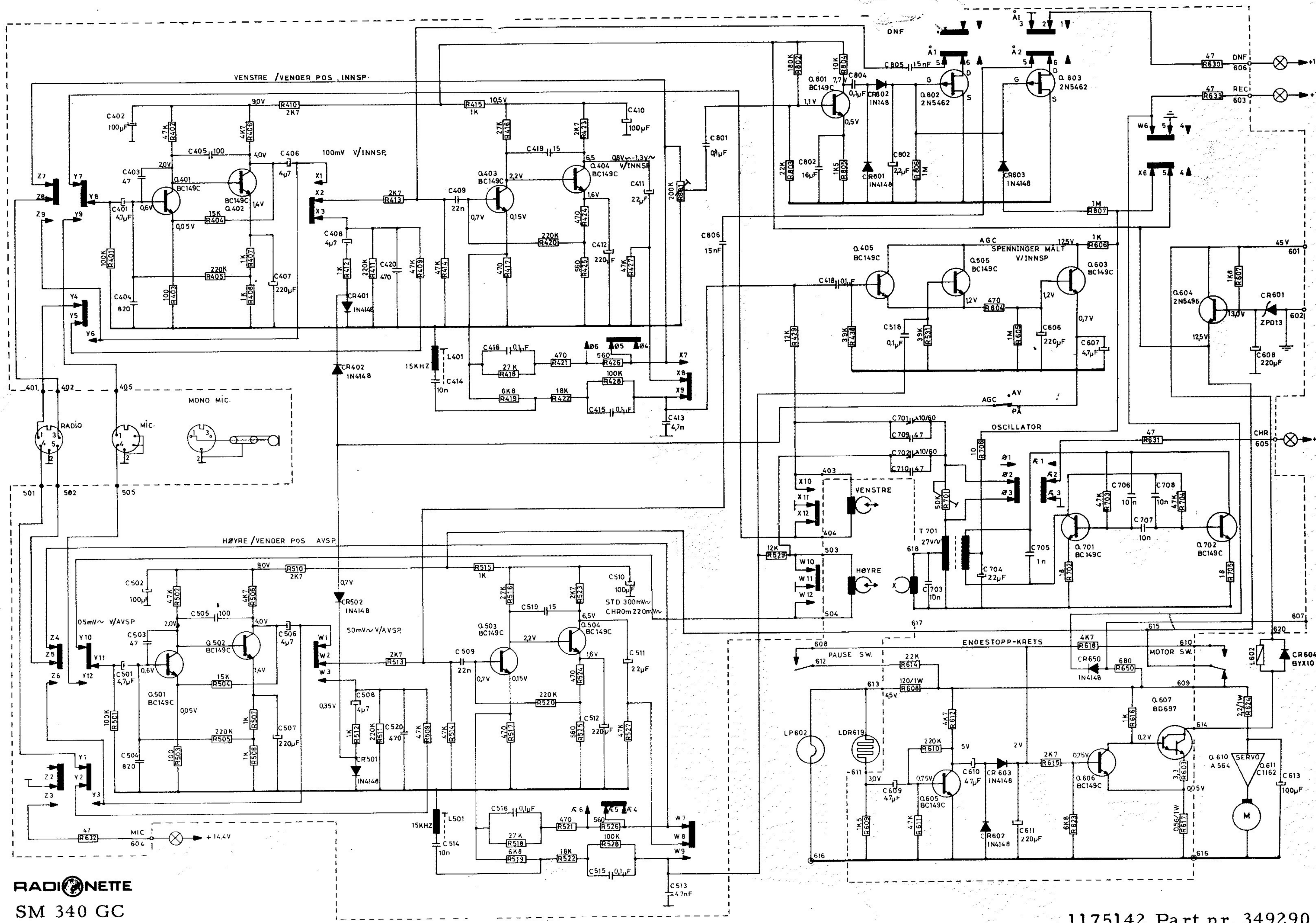


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Kassettdel

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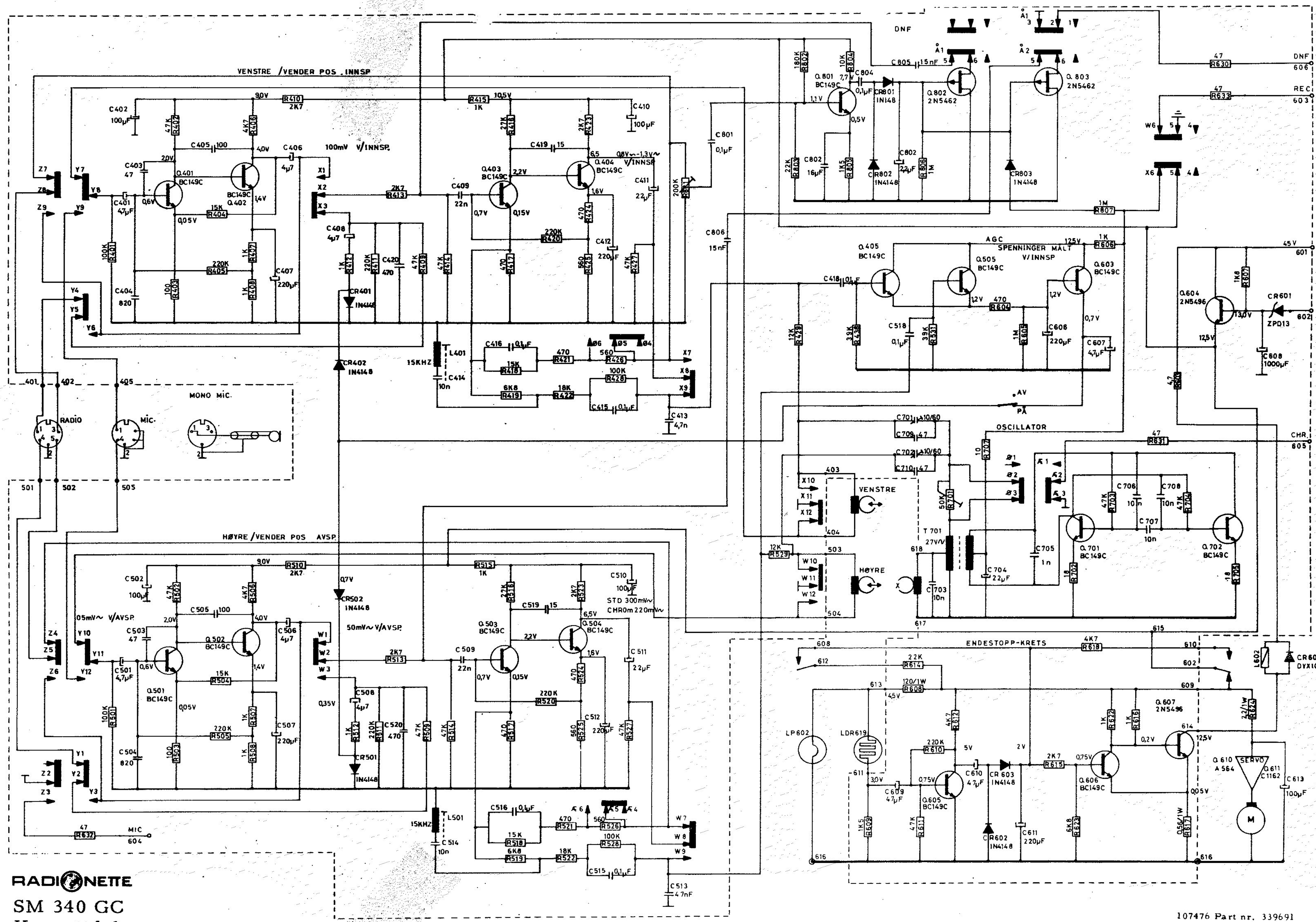


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Kassettdel

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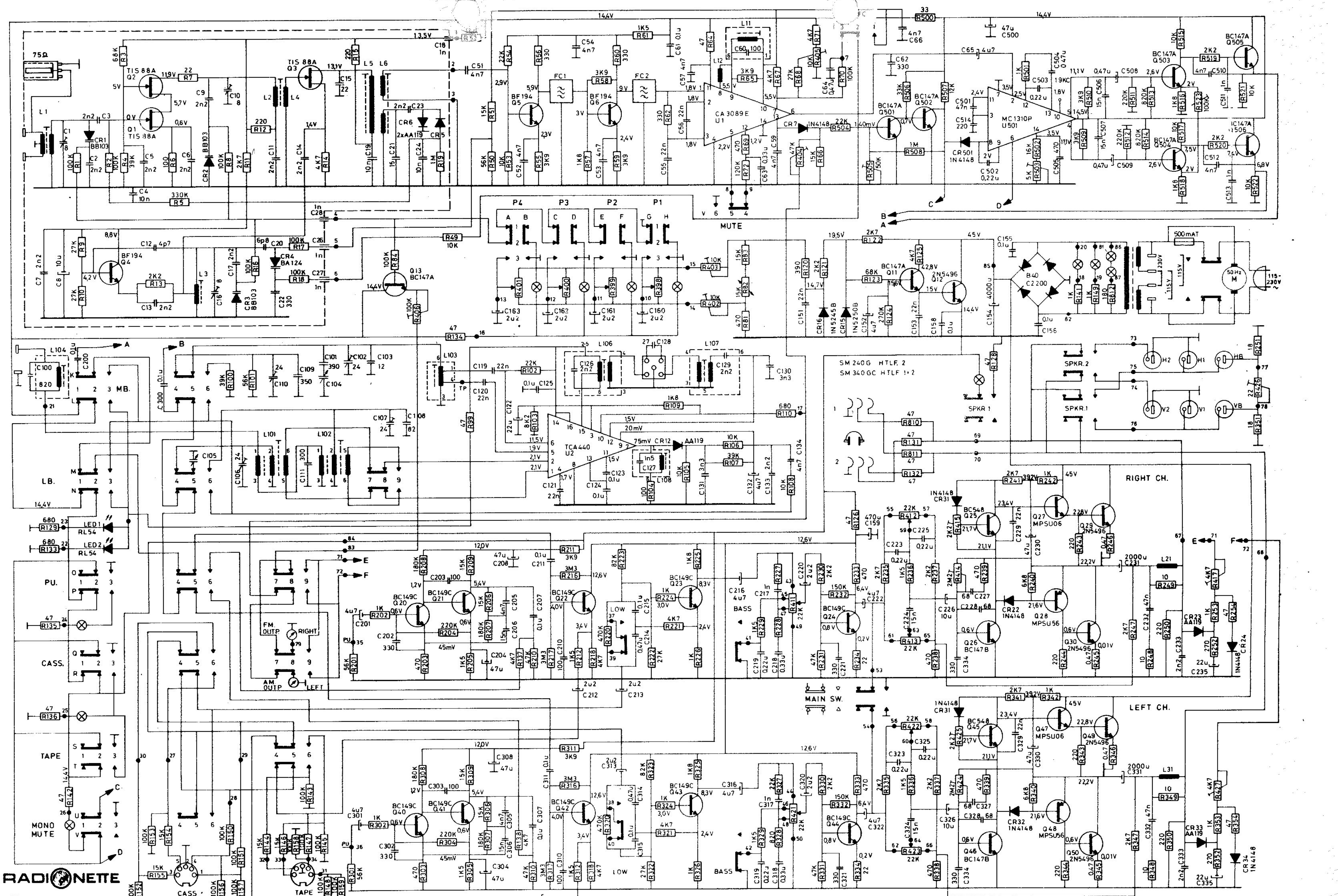


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SM 340 GC
Radiodel

107475 Part nr. 338010