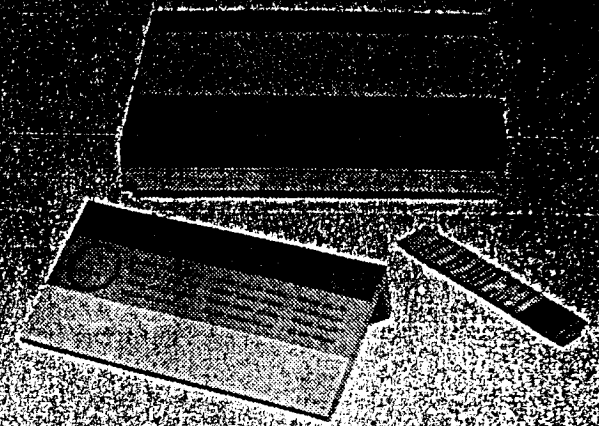


Bang & Olufsen



Beomaster 5500

Type 2331, 2332, 2333,
2334, 2335, 2339

Master Control Panel

Type 2048

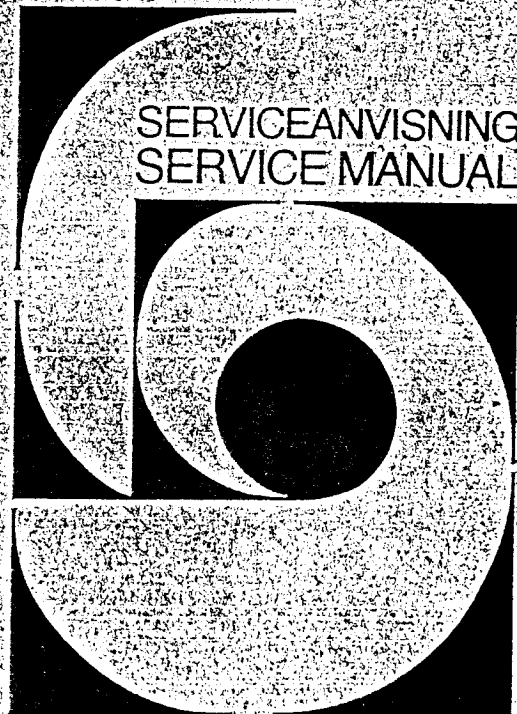
Audio Terminal

Type 2049

IR-Sensor

Type 2001

SERVICEANVISNING
SERVICE MANUAL



INDHOLD

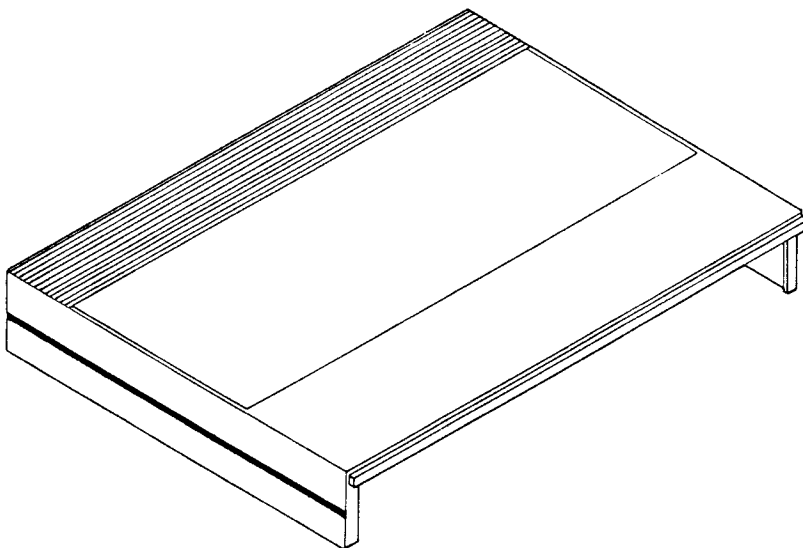
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| Halvlederoversigt..... |
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| Mekanisk stykliste..... |
| Justering..... |
| Tekniske specifikationer..... |
| Adskillelse..... |
| Servicetips..... |
| Isolationstest..... |
| Slutafprovning..... |

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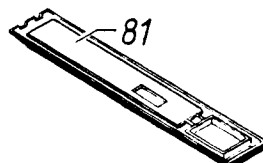
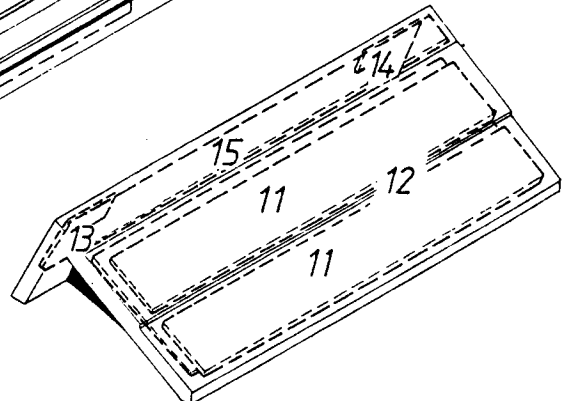
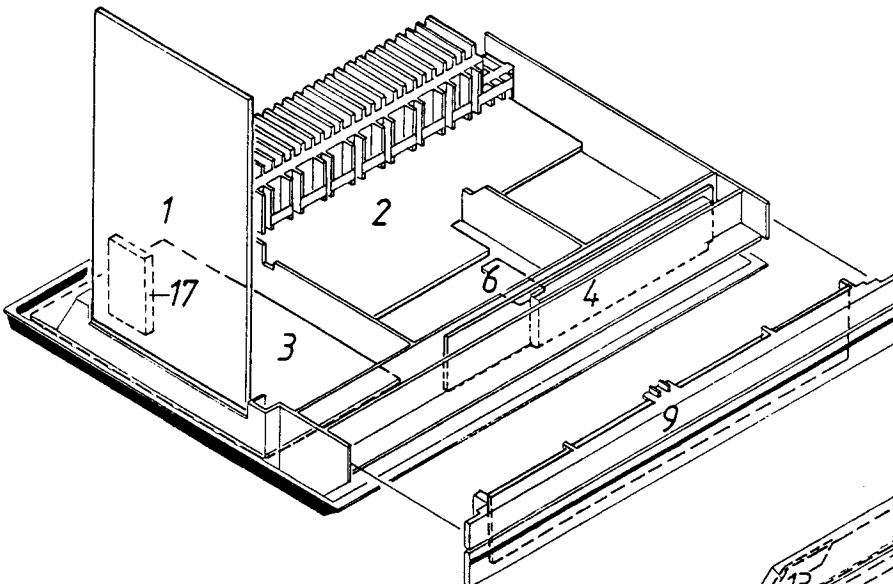
| | | |
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| 9 | Display..... | diagr. C page 1-8 | 20 | IR-Sensor..... | diagr. F page 1-11 |
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DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde hvor typenummeret er entydigt for komponenters placering i kredsløbet - f.eks. TR20/BC 557B.

Hvis positionsnummeret er efterfulgt af en stjerne skal reservedelsnummeret benyttes, da denne komponent er specielt udvalgt - f.eks. TR102*.

En pil og spænding viser, hvor forsyningsspændingerne går ind i et print.

Eksempel:

(7CON.) f.eks. ved siden af forsyningsspændingen angiver det antal steder, spændingen går ind på denne diagramside.

Koordinatnumre

De tre største PCB plader er forsynet med et koordinatsystem. Komponenterne på disse PCB plader er forsynet med et koordinatnummer på diagrammet (mindre skrifttype end positions nr.), som fortæller hvilket koordinat, på PCB pladen, de er placeret i. Koordinatnumre for udgangsforstærkerens venstre kanal er angivet i parenteser i diagrammet for højre kanal.

Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en bogstavsbetegnelse (Cr = High med CrO₂ bånd). Hvis betegnelsen er forsynet med negationstegn er den aktive tilstand LOW (Cr = LOW med CrO₂ bånd).

Ledningsforbindelser

Ledningsforbindelserne på diagrammet er samlet i »bundter«. De enkelte ledninger er forsynet med koder, der fortæller hvortil de går.

INTERN FORBINDELSE
PÅ EN DIAGRAMSIDE



INTERNAL CONNECTION
ON ONE DIAGRAM PAGE

Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser i hvilken retning den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN
DIAGRAMSIDE

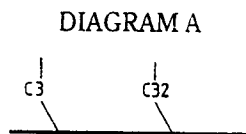


DIAGRAM A

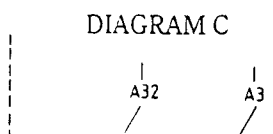


DIAGRAM C

CONNECTION TO ANOTHER
DIAGRAM PAGE

Forbindelsen til en anden diagramside angives med et tal, samt bogstav indikation på det diagram forbindelsen går til.

EXPLANATION OF DIAGRAM

Type numbers of transistors and IC's have been indicated on the diagram in those cases where the type number is unambiguous for the position of the component in a circuitry - e.g. TR20/BC 557B.

If the position number is followed by an asterisk the spare part number **must be used** because this component has been especially selected - e.g. TR102*.

An arrow and the voltage show where the supply voltages are fed to a PCB.

Example:

(7CON.) next to the supply voltage indicates the number of places where to find the voltages in this diagram.

System of Coordinates

The biggest PCB boards are provided with coordinate systems. The components on these PCB boards are provided with a co-ordinate number on the diagram (smaller printing type than the position numbers) indicating in which co-ordinate they are placed on the PCB board.

The co-ordinate numbers for the left channel of the output amplifier are stated in brackets in the diagram for right channel.

Control Circuit

In certain control circuits the active mode has been indicated by means of a letter symbol (Cr = HIGH with CrO₂ tapes). If the symbol has a negation superscript bar the active mode is LOW (Cr = LOW with CrO₂ tapes).

Wiring Connections

The wiring connections on the diagram are assembled in »bundles«. The individual wires are coded to indicate to where they are leading.

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire may be found.

Connections to another diagram page are indicated by a number, as well as by a letter of the diagram to which the connections lead.

Symbol for sikkerhedskomponenter



Symbol for Safety Components

Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

When replacing components with this symbol components with identical part numbers are to be used. The new component must be fitted in the same way as the one replaced.

MÅLEBETINGELSER

Alle DC spændinger er målt til stel med voltmeter (indre modstand 10 Mohms).
DC spændinger er opgivet i volt (V). Eks. 0.7 V.
Spændinger på diagram A er målt i stilling FM, spændingerne i parentes er målt i stilling MW, spændingerne i firkanter parentes er målt i stilling LW.

Spændingerne på diagram B er målt med 1 W udgangseffekt.
Signalveje er vist for henholdsvis FM, AM, fjernbetjening og for LF højre kanal.

MEASURING CONDITIONS

All DC voltages are measured in relation to chassis with a voltmeter (internal resistor 10 Mohms).
DC voltages are stated in volts (V). Eg. 0.7 V.
Voltages in diagram A are measured in FM mode signal, the voltages in parentheses are measured in MW mode, the voltages in quadrangular parentheses are measured in LW mode.

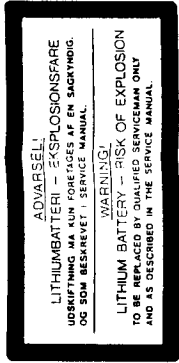
Voltages in diagram B are measured with 1 W output level.
The signal paths are shown for FM, AM, remote control and AF right channel.

Type 2333 Explanation of the fuse symbols used in the set

Explication de symboles du fusible utilisés dans l'appareil



Replace with same type 5 ampere 250 volts slow acting fuse.
Remplacer par un fusible de même type retardé et de 5 ampères 250 volts.



ADVARSEL
Kortslutning og overopladning af visse typer lithium-batterier kan medføre voldsom eksplosion.

Ved udskiftning af lithium-batteriet i dette apparat skal følgende iagttages:

Der skal anvendes batteri af samme fabrikat og type som angivet i denne service manual (se side 4-5).

Batteriet skal monteres nøjagtigt som det originale batteri.

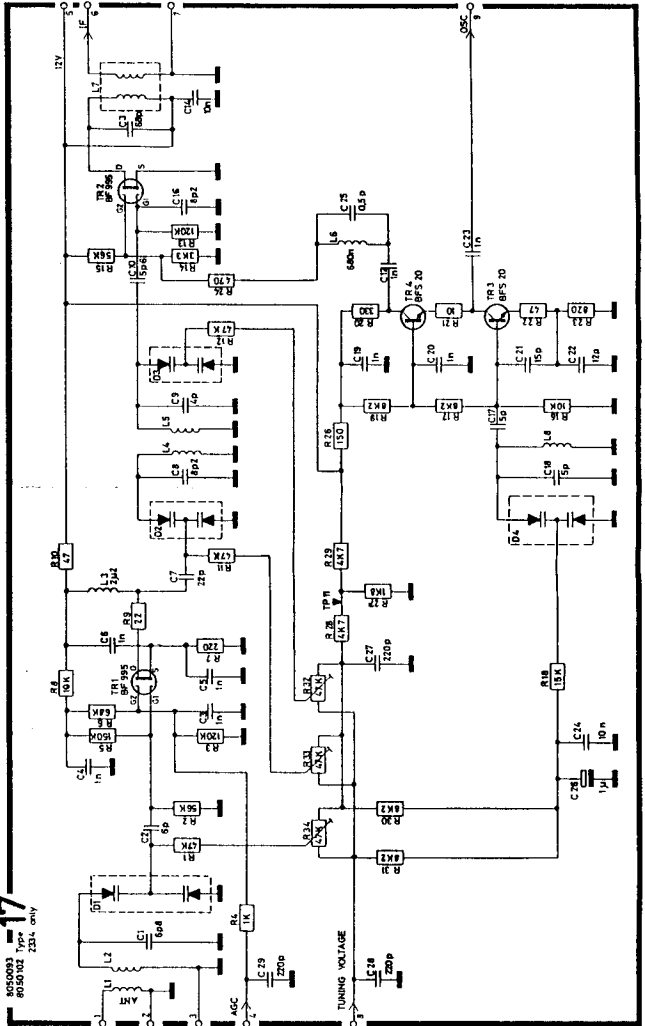
WARNING
Short circuit and overcharging of some types of lithium batteries may result in a violent explosion.

When replacing the lithium battery in this set note the following:

Use only batteries of the same make and type as mentioned in this service manual (see page 4-5).

Place the battery exactly like the old one.

FM TUNER



The FM TUNER is a single unit.
What failure in this unit we recommend replacing the whole unit.
However the part nos. of semi-conductors are in the list of semi-conductors.

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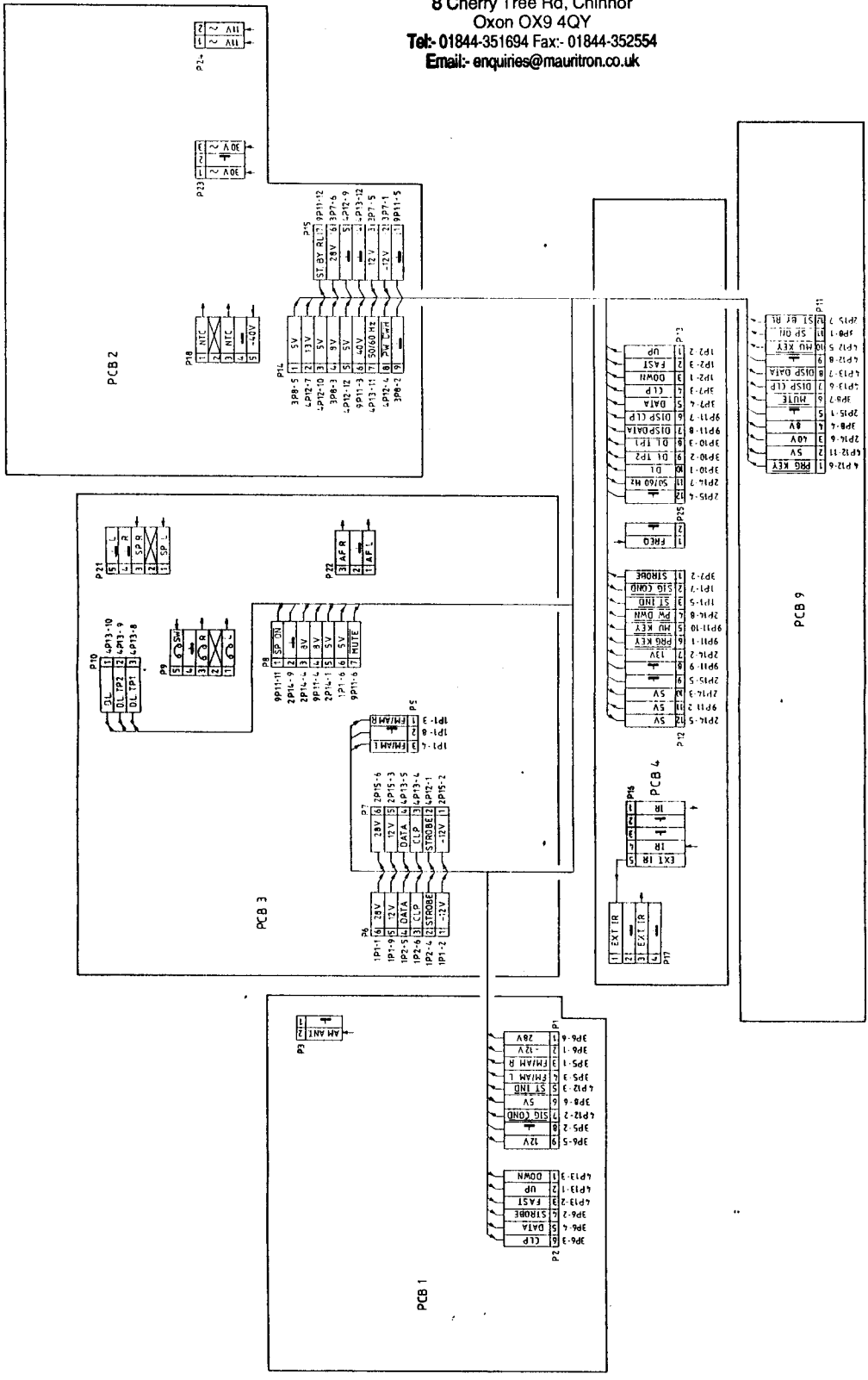
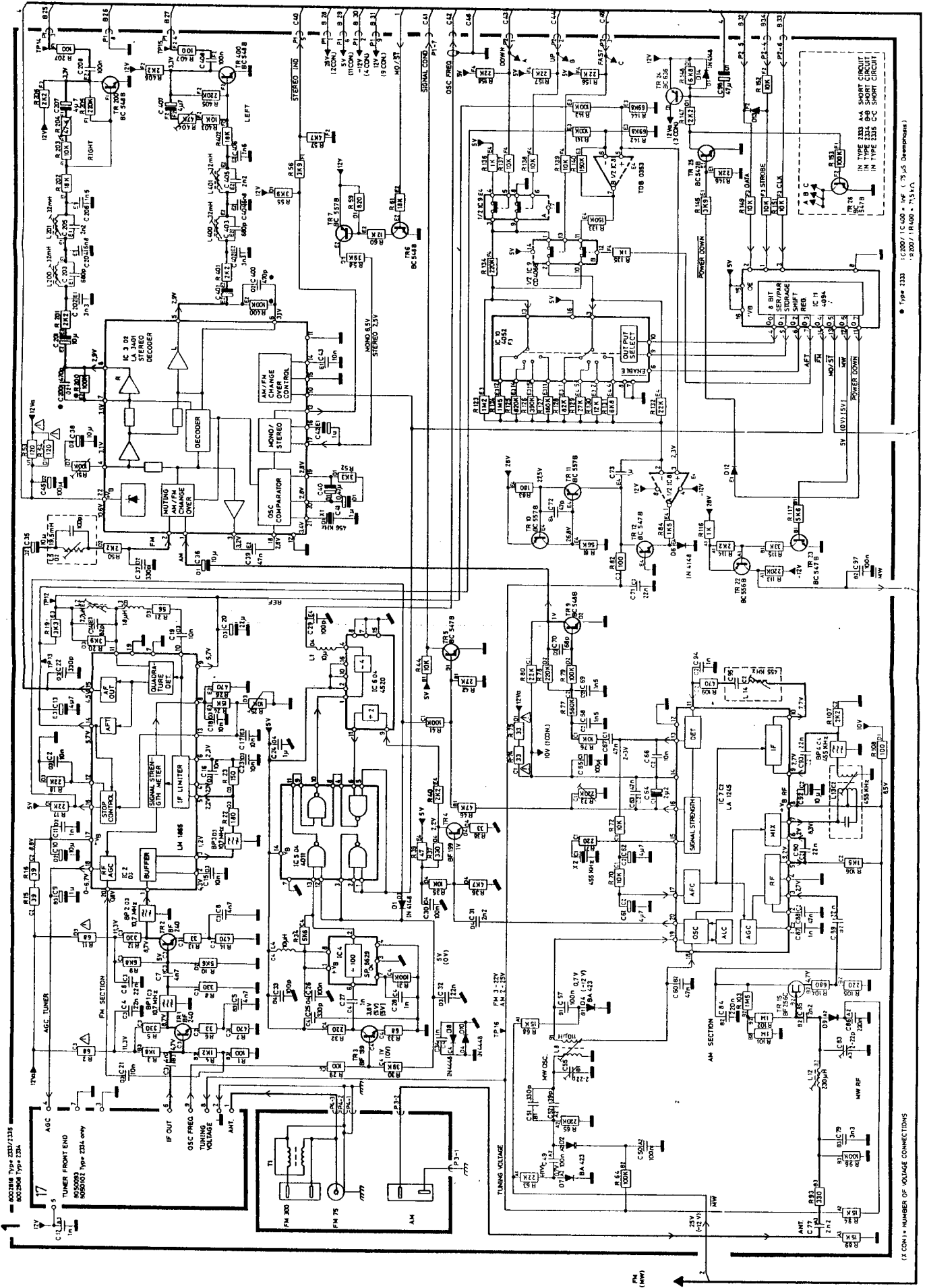


DIAGRAM A AM-FM, TUNER, IF, STEREO DECODER (Type 2333, 2334, 2335)



(1 CON) = NUMBER OF VOLTAGE CONNECTIONS

1-6

1-6 1-6

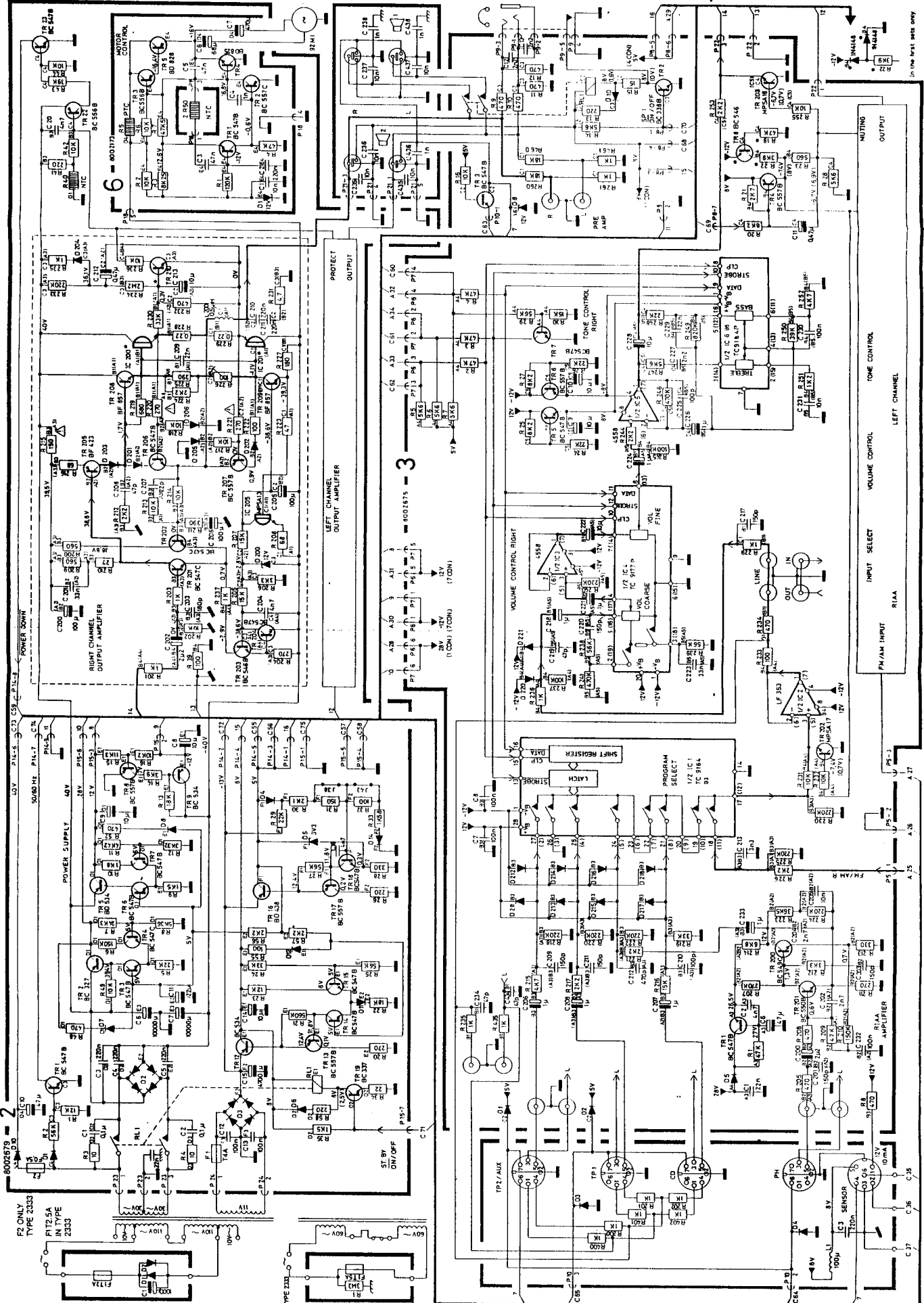
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DIAGRAM A AM-FM, TUNER, IF, STEREO DECODER (Type 2331, 2332)

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

DIAGRAM B RIAA AMPL., INPUT SELECT, VOLUME AND TONE CONTROL, OUTPUT AMPL., POWER SUPPLY
8002814 ONLY, TYPE 2333



IN THE NEXT PAGE ONLY

1-8

1-8 1-8

Bang & Olufsen

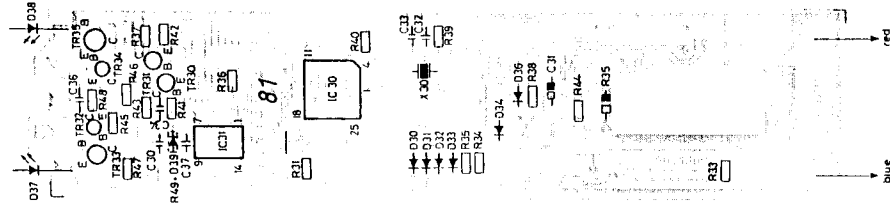
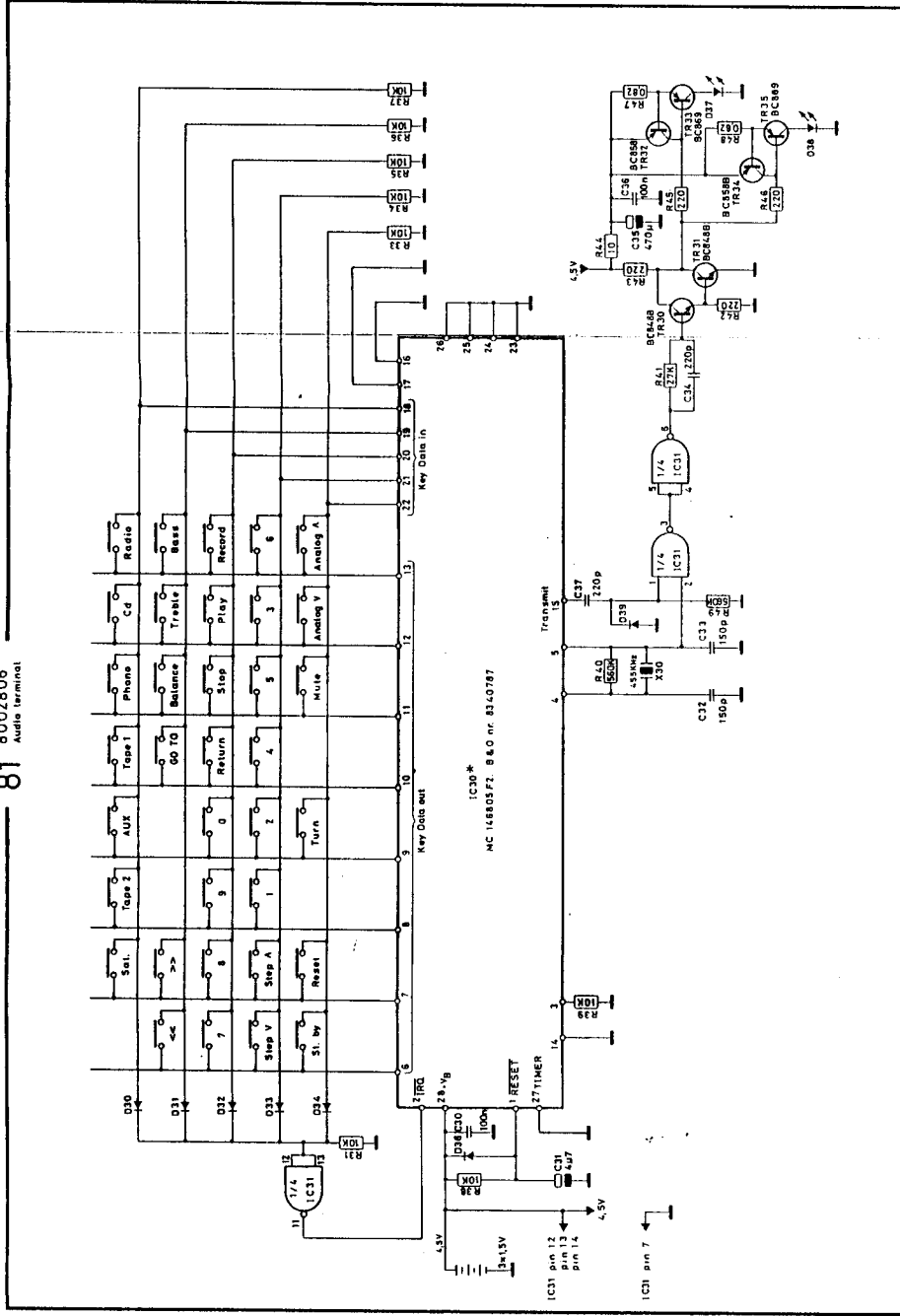
DIAGRAM C MICROCOMPUTER, IR RECEIVER/TRANSMITTER DISPLAY

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14 CON 1 NUMBERS OF VOLTAGE CONNECTION

DIAGRAM D AUDIO TERMINAL TYPE 2049

81 8002806
Audio terminal



1-10

1-10

1-10

Bang & Olufsen

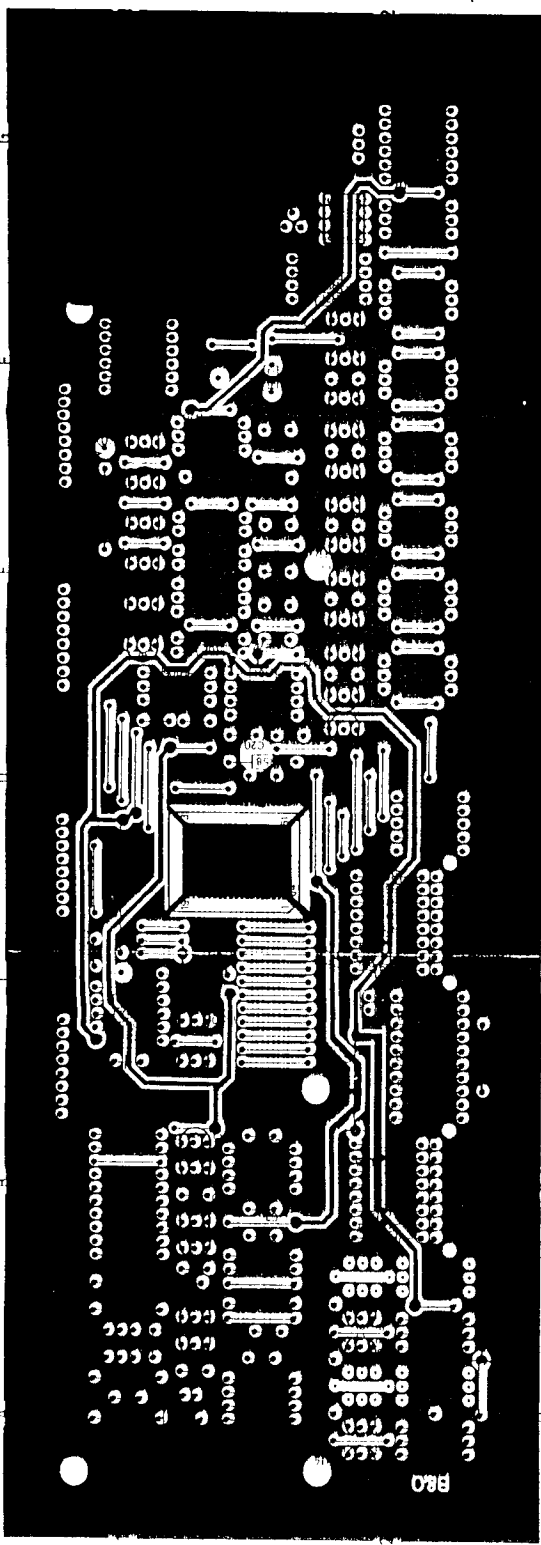
DIAGRAM E MASTER CONTROL PANEL, TYPE 2048

4001654

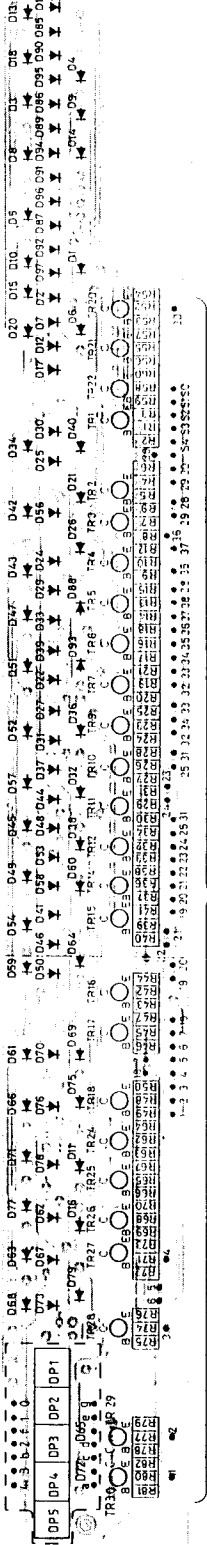
-15

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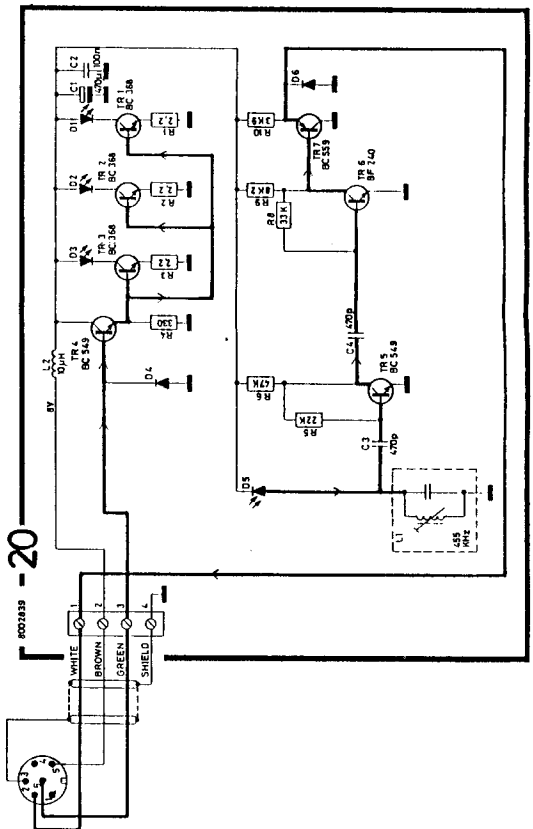
(4 CON) = NUMBER OF VOLTAGE CONNECTION



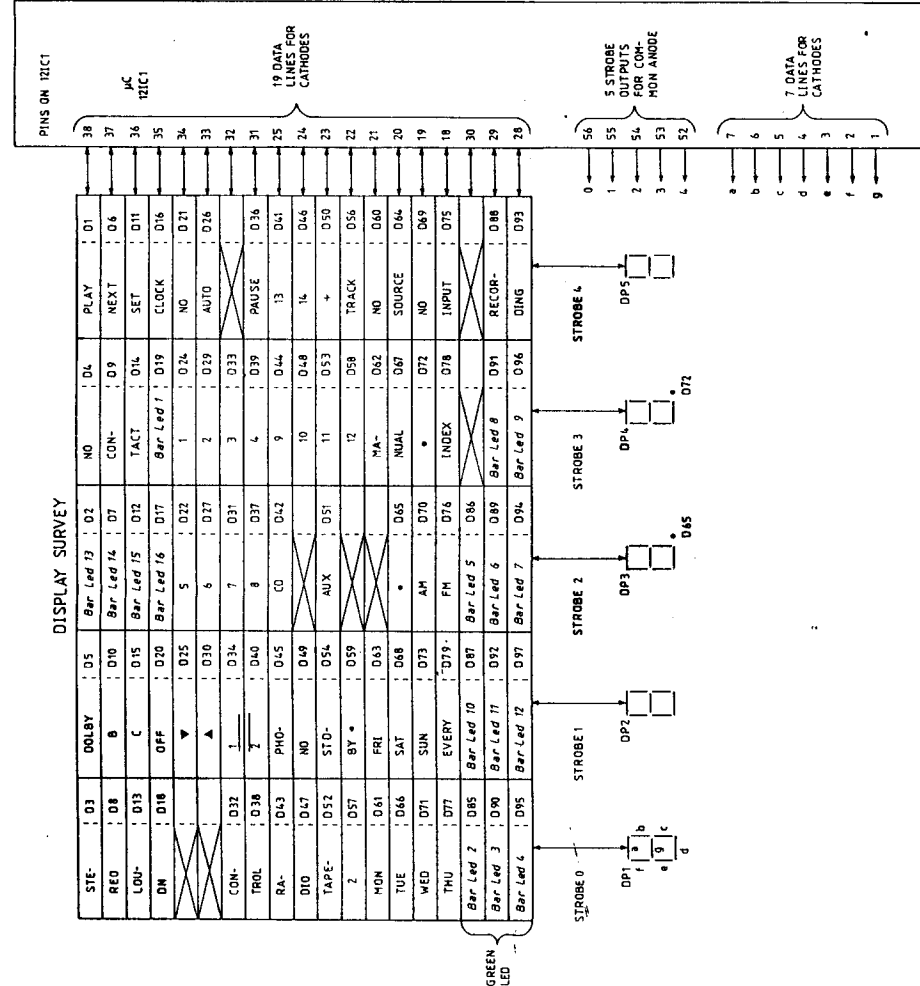
Display
8002694, PCB 15



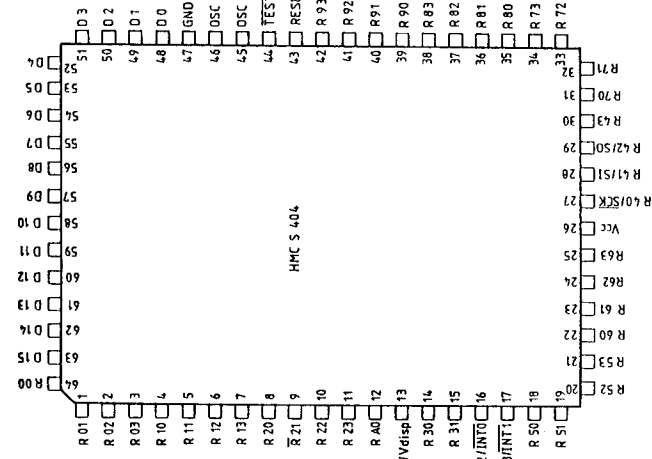
IR SENSOR
Type 2001



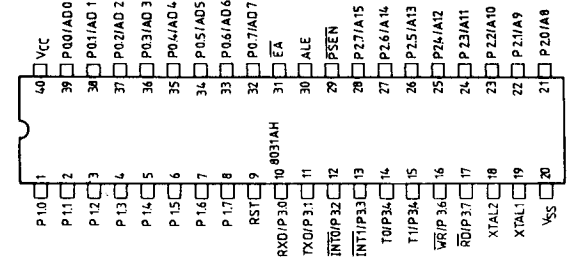
DISPLAY SURVEY FOR PCB 15 IN MASTER CONTROL PANEL



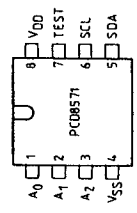
121C



41C1

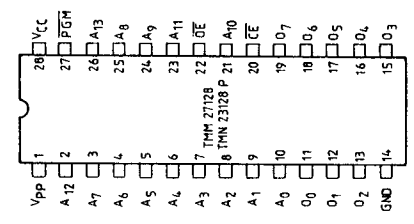


41C2



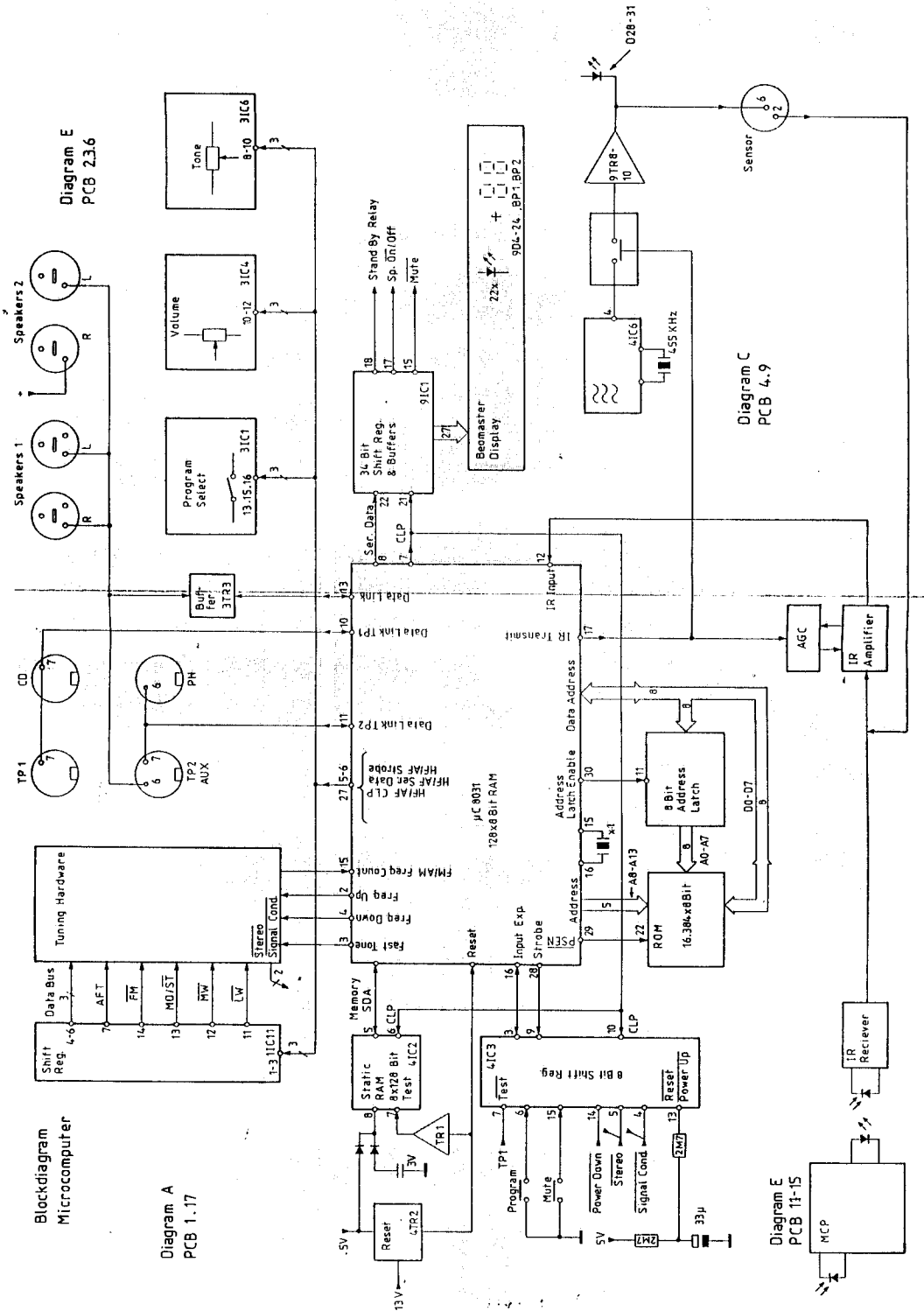
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41C4

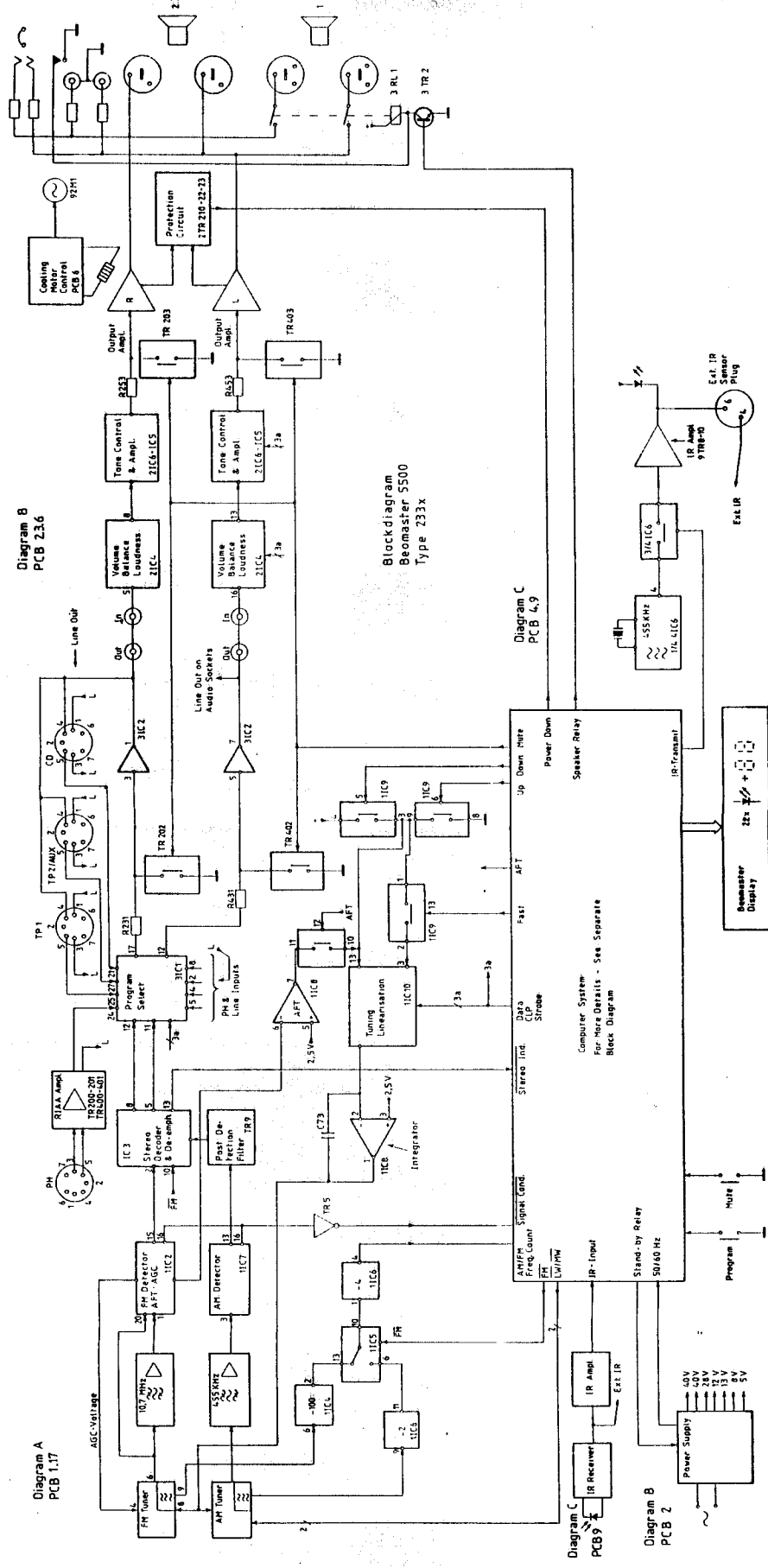


BLOCK DIAGRAM

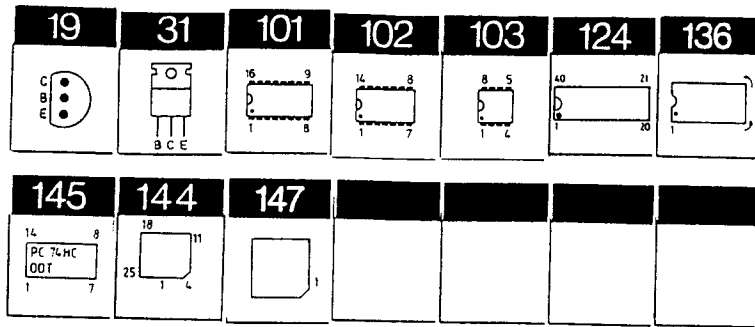
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BLOCK DIAGRAM



SEMI-CONDUCTORS



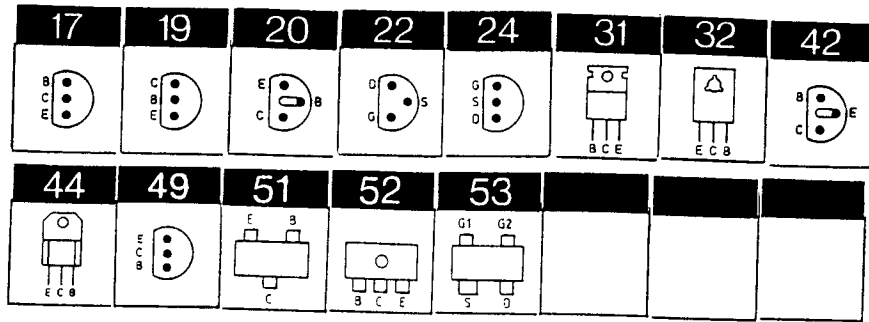
List of IC's

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| | | | | | | | |
|---------|---------|-----|------------------|----------|---------|-----|------------------|
| 1IC2 | 8340756 | 136 | LM 1865 | 3IC6 Δ | 8340761 | 136 | TC 9184 |
| 1IC3 | 8340758 | 136 | LA 3401 | 4IC1 Δ | 8340753 | 136 | uC 8031 |
| 1IC4 | 8340492 | 103 | SP 8629 DP | 4IC2 Δ | 8340616 | 136 | PCD 8571P |
| 1IC5 Δ | 8340245 | 102 | CD 4011 BCN | 4IC3 Δ | 8340276 | 101 | CD 4021 CN |
| | | | 102 CD 4011 BE | | | | 101 HEF 4021 BP |
| | | | 102 HEF 4011 BE | | | | 101 MC 14021 BCP |
| | | | 102 MC 14011BCP | 4IC4 Δ | 8340934 | 136 | TMM 27128 |
| 1IC6 Δ | 8340491 | 101 | HEF 4520BP | 4IC5 Δ | 8340777 | 136 | 74HCT573 |
| 1IC7 | 8340757 | 136 | LA 1245 | 4IC6 Δ | 8340373 | 136 | MC 140001B |
| 1IC8 | 8340763 | 136 | LF 353- TL072 | 9IC1 Δ | 8340467 | 124 | MM5450 N |
| 1IC9 Δ | 8340202 | 102 | CD 4066 BCN | 12IC1 Δ | 8340884 | 147 | HMC S4040 |
| | | | 102 HEF 4066 BP | 12IC2 | 8340141 | 103 | LM 741 |
| | | | 102 MC 14066 BCP | 81IC30 Δ | 8340787 | 144 | μP MC 16805 |
| | | | 102 MSM 4066 RS | 81IC31 Δ | 8340858 | 145 | IC SMD |
| 1IC10 Δ | 8340602 | 101 | CD 4052 BC | | | | 74HC00 |
| | | | 101 HEF 4052 BP | | | | |
| | | | 101 MC 14052 BCP | | | | |
| 1IC11 Δ | 8340782 | 101 | 4094 | | | | |
| 2IC200/ | 8340470 | 31 | BDV 65B | | | | |
| 400* | | | | | | | |
| 2IC201/ | 8340469 | 31 | BDV 64B | | | | |
| 401* | | | | | | | |
| 2IC205/ | 8340400 | 19 | MPSA 13 | | | | |
| 405 | | | | | | | |
| 3IC1 Δ | 8340759 | 136 | TC 9164 | | | | |
| 3IC2 | 8340763 | 136 | LF 353 - TL072 | | | | |
| 3IC3 | 8340790 | 103 | 4558 | | | | |
| 3IC4 Δ | 8340760 | 136 | TC 9177 | | | | |
| 3IC5 | 8340790 | 103 | 4558 | | | | |

- Δ Statisk elektricitet kan ødelægge komponenten
- Δ Static electricity may destroy the component
- Δ Statische Elektrizität die Komponente zerstören kann
- * Speciel udvalgt eller bearbejdet eksemplar
- * Specially selected or adapted sample
- * Speziell ausgewähltes und bearbeitets Exemplar

List of Transistors



| | | | | | | | |
|----------------|---------|----|--------------------------------|----------------|---------|----|----------------|
| 1TR1-2 | 8320311 | 42 | BF 240 | 2TR6-7 | 8320097 | 20 | BC 547B |
| 1TR3-4 | 8320281 | 42 | BF 199 | 2TR8 | 8320152 | 20 | BC 557B |
| 1TR5 | 8320097 | 20 | BC 547B | 2TR9-12 | 8320369 | 31 | BD 534 |
| 1TR6 | 8320108 | 20 | BC 548B | 2TR13 | 8320152 | 20 | BC 557B |
| 1TR7 | 8320152 | 20 | BC 557B | 2TR14-15 | 8320097 | 20 | BC 547B |
| 1TR9 | 8320108 | 20 | BC 548B | 2TR16 | 8320428 | 32 | BD 438 |
| 1TR10-11 | 8320152 | 20 | BC 557B | 2TR17 | 8320152 | 20 | BC 557B |
| 1TR12 | 8320097 | 20 | BC 547B | 2TR18 | 8320097 | 20 | BC 547B |
| 1TR13 | 8320329 | 20 | BC 338-25/18 | 2TR19 | 8320295 | 20 | BC 337-25/18 |
| 1TR14*Δ | 8320396 | 24 | MPF 4392 2N 4395 2N 5639 | 2TR22 | 8320242 | 20 | BC 556B |
| 1TR15 Δ | 8320535 | 22 | BF 256C | 2TR23 | 8320097 | 20 | BC 547B |
| 1TR20 | 8320242 | 20 | BC 556B | 2TR201- | 8320377 | 20 | BC 547C 202 |
| 1TR21 | 8320097 | 20 | BC 547B | 2TR401-402 | | | |
| 1TR22 | 8320242 | 20 | BC 556B | 2TR203/ 403 | 8320237 | 20 | BC 546B |
| 1TR23 | 8320097 | 20 | BC 547B | 2TR204/ 404 | 8320097 | 20 | BC 547B |
| 1TR24 | 8320640 | 49 | BC 636 | 2TR205/ 405 | 8320631 | 17 | BF 423 |
| 1TR25 | 8320097 | 20 | BC 547B | 2TR206/ 406 | 8320097 | 20 | BC 547B |
| 1TR200/ 400 | 8320108 | 20 | BC 548B | 2TR207/ 407 | 8320152 | 20 | BC 557B |
| 2TR1 | 8320097 | 20 | BC 547B | 2TR208- 209 | 8320646 | 44 | BF 858 |
| 2TR2 | 8320316 | 20 | BC 327-25/18 | 2TR408/409 | | | |
| 2TR3 | 8320097 | 20 | BC 547B | 2TR210/ 410 | 8320546 | 49 | BF 422 |
| 2TR4 | 8320377 | 20 | BC 547C | | | | |
| 2TR5 | 8320369 | 31 | BD 534 | | | | |

| | | | |
|----------|---------|----|--------------|
| 3TR1 | 8320097 | 20 | BC 547B |
| 3TR2 | 8320329 | 20 | BC 338-25/18 |
| 3TR3 | 8320097 | 20 | BC 547B |
| 3TR4 | 8320152 | 20 | BC 557B |
| 3TR5 | 8320152 | 20 | BC 547B |
| 3TR6 | 8320152 | 20 | BC 557B |
| 3TR7 | 8320097 | 20 | BC 547B |
| 3TR200/ | 8320221 | 20 | BC 549C |
| 400 | | | |
| 3TR201/ | 8320344 | 20 | BC 550B |
| 401 | | | |
| 3TR202/ | 8320639 | 49 | MPSA 17 |
| 402* | | | |
| 3TR203/ | 8320366 | 19 | MPSA 16 |
| 403* | | | |
| 4TR1 | 8320108 | 20 | BC 548B |
| 4TR2 | 8320104 | 20 | BC 558B |
| 4TR5-6 | 8320108 | 20 | BC 548B |
| 4TR7 | 8320104 | 20 | BC 558B |
| 4TR8 | 8320311 | 42 | BF 240 |
| 4TR9 | 8320104 | 20 | BC 558B |
| 4TR10-11 | 8320108 | 20 | BC 548B |
| 6TR1 | 8320097 | 20 | BC 547B |
| 6TR2 | 8320540 | 20 | BC 557B |
| 6TR3 | 8320242 | 20 | BC 556B |
| 6TR4 | 8320542 | 44 | BD 825-16 |
| 6TR5 | 8320541 | 44 | BD 828-10 |
| 9TR2 | 8320095 | 20 | BC 549B |
| 9TR3 | 8320311 | 42 | BF 240 |
| 9TR8-9 | 8320237 | 20 | BC 546B |
| 9TR10 | 8320682 | 32 | BD 788 |

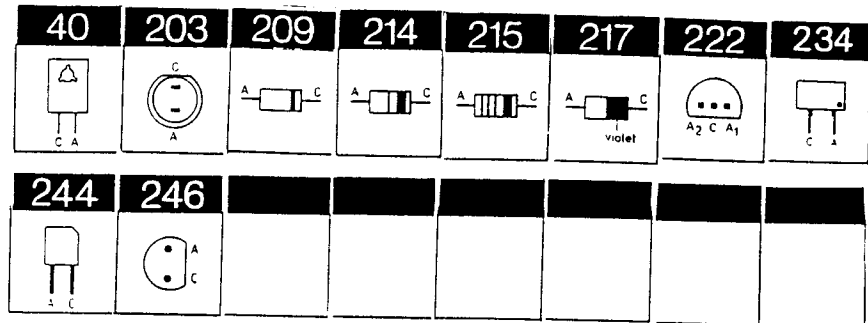
| | | | |
|---------|---------|----|--------------|
| 12TR1 | 8320108 | 20 | BC 548B |
| 12TR2 | 8320104 | 20 | BC 558B |
| 12TR3 | 8320311 | 42 | BF 240 |
| 12TR4-5 | 8320108 | 20 | BC 548B |
| 12TR6 | 8320104 | 20 | BC 558B |
| 12TR7 | 8320108 | 20 | BC 548B |
| 12TR11 | 8320104 | 20 | BC 558B |
| 12TR12 | 8320450 | 17 | BC 369 |
| 12TR13 | 8320104 | 20 | BC 558B |
| 12TR14 | 8320450 | 17 | BC 369 |
| 12TR15 | 8320104 | 20 | BC 558B |
| 12TR16 | 8320450 | 17 | BC 369 |
| 12TR17 | 8320104 | 20 | BC 558B |
| 12TR18 | 8320450 | 17 | BC 369 |
| 12TR19 | 8320329 | 20 | BC 338-25/18 |
| 12TR20- | 8320108 | 20 | BC 548B |
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| 12TR26 | 8320640 | 49 | BC 636 |
| 12TR27 | 8320108 | 20 | BC 548B |
| 12TR28 | 8320640 | 49 | BC 636 |
| 12TR29 | 8320108 | 20 | BC 548B |
| 12TR30 | 8320640 | 49 | BC 636 |
| 12TR31 | 8320108 | 20 | BC 548B |
| 12TR32 | 8320640 | 49 | BC 636 |
| 12TR33 | 8320108 | 20 | BC 548B |
| 12TR34 | 8320640 | 49 | BC 636 |
| 12TR35 | 8320108 | 20 | BC 548B |
| 12TR36- | 8320104 | 20 | BC 558B |
| 39 | | | |

| | | | |
|----------|---------|----|---------|
| 12TR40- | 8320108 | 20 | BC 548B |
| 41 | | | |
| 13TR1 | 8320311 | 42 | BF 240 |
| 13TR2 | 8320095 | 20 | BC 549B |
| 14TR1 | 8320311 | 42 | BF 240 |
| 14TR2 | 8320095 | 20 | BC 549B |
| 15TR1-30 | 8320615 | 51 | BC 848B |
| 17TR1-2 | 8320610 | 53 | BF 995 |
| 17TR3-4 | 8320672 | 53 | BFS 20 |
| 20TR1-3 | 8320424 | 17 | BC 368 |
| 20TR4-5 | 8320095 | 20 | BC 549B |
| 20TR6 | 8320311 | 42 | BF 240 |
| 20TR7 | 8320069 | 20 | BC 559B |
| 81TR30- | 8320615 | 51 | BC 848B |
| 31 | | | |
| 81TR32 | 8320616 | 51 | BC 858B |
| 81TR33 | 8320684 | 52 | BC 869 |
| 81TR34 | 8320616 | 51 | BC 858B |
| 81TR35 | 8320684 | 51 | BC 869 |

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor,
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

- Δ Statisk elektricitet kan ødelægge komponenten
- Δ Static electricity may destroy the component
- Δ Statische Elektrizität die Komponente zerstören kann
- * Speciel udvalgt eller bearbejdet eksemplar
- * Specially selected or adapted sample
- * Speziell ausgewähltes und bearbeitetes Exemplar

List of Diodes



| | | | | | | | |
|---------|---------|-----|----------------|---------|---------|-----|------------|
| 0D1-2 | 8300023 | 209 | 1N4002 | 2D11-14 | 8300058 | 217 | SFD 184 |
| | | | | | | 209 | 1N 4148 |
| 1D1 NB! | 8300058 | 217 | SFD 184 | | | 215 | 1N 4148 |
| | | 209 | 1N 4148 | | | | |
| | | 215 | 1N 4148 | 2D200- | 8300407 | 209 | BZX79B 12 |
| 1D2 | 8300384 | 234 | KV 1226Y | 203 | | 209 | BZX29B 12 |
| | | | | 2D400- | | 209 | ZPD 12V |
| 1D3-5 | 8300385 | 209 | BA 423 | 403 | | | |
| | | | | | | | |
| 1D6 | 8300058 | 217 | SFD 184 | 2D204/ | 8300409 | 214 | BAV 20 |
| | | 209 | 1N 4148 | 404 | | | |
| | | 215 | 1N 4148 | | | | |
| 1D7 | 8300385 | 209 | BAA 423 | 2D205- | 8300058 | 217 | SFD 184 |
| | | | | 206 | | 209 | 1N 4148 |
| 1D8 | 8300212 | 209 | 1N 4448 | 2D405- | | 215 | 1N 4148 |
| | | | | 406 | | | |
| 1D9 NB! | 8300384 | 234 | KV 1226Y | | | | |
| | | | | 3D1-5 | 8300058 | 217 | SFD 184 |
| 1TR10 | 8300212 | 209 | 1N 4448 | | | 209 | 1N 4148 |
| | | | | | | 215 | 1N 4148 |
| 1D11-13 | 8300058 | 217 | SFD 184 | 3D8 | 8300407 | 209 | BZX79B 12 |
| | | 209 | 1N 4148 | | | 209 | BZX83B 12 |
| | | 215 | 1N 4148 | | | 209 | ZPD 12V |
| 2D1 | 8300058 | 217 | SFD 184 | | | | |
| | | 209 | 1N 4148 | 3D10 | 8300058 | 217 | SFD 184 |
| | | 215 | 1N 4148 | 3D220- | | 209 | 1N 4148 |
| | | | | 221 | | | |
| 2D2 | 8300011 | | B80 C5000/3300 | 3D420- | | 215 | 1N 4148 |
| | | | | 421 | | | |
| 2D3 | 8300297 | | B80 C3700/2200 | 4D1 | 8300296 | 209 | BZX79B 5V6 |
| | | | | | | 209 | BZX83B 5V6 |
| 2D4 | 8300058 | 217 | SFD 184 | | | 209 | ZPD 5.6V |
| | | 209 | 1N 4148 | 4D2-12 | 8300058 | 217 | SFD 184 |
| | | 215 | 1N 4148 | | | 209 | 1N 4148 |
| 2D5 | 8300541 | | 3V3 2% 0.4W | | | 215 | 1N 4148 |
| | | | | 6D1 | 8300407 | 209 | BZX79B 12 |
| 2D6-8 | 8300058 | 217 | SFD 184 | | | 209 | BZX83B 12 |
| | | 209 | 1N 4148 | | | 209 | ZPD 12V |
| | | 215 | 1N 4148 | 9D1 | 8002681 | | BPW 82 |
| 2D10 | 8300023 | 209 | 1N 4002 | | | | |

| | | | | | | | |
|----------|---------|-----|-------------------------------------------|----------|---------|-----|---------------------------------------|
| 9D4-25 | 8330183 | 40 | LED Green | 15D1-79 | 8330152 | 246 | LED reed |
| 9DP1-2 | 8330131 | | HD 1075R/ P 100PA | 15D85-97 | 8330151 | 246 | LED Green |
| 9D28-31 | 8330140 | 203 | TSHA 5502 | 15DP1-5 | 8330131 | | HD 1075R / P 100PA |
| 12D1-19 | 8300058 | 217 | SFD 184 209 1N 4148 215 1N 4148 | 17D1-4 | 8300308 | 222 | BB 204 blue |
| 12D20 | 8300404 | 209 | BZX79B 12 209 BZX83B 12 209 ZPD 12V | 20D4 | 8300058 | 217 | SFD 184 209 1N 4148 215 1N 4148 |
| 12D24-33 | 8300058 | 217 | SFD 184 209 1N 4148 215 1N 4148 | 20D5 | 8330145 | 244 | BPW 82 |
| 13D1 | 8330145 | 244 | BPW 82 | 20D6 | 8300058 | 217 | SFD 184 209 1N 4148 215 1N 4148 |
| 13D2-3 | 8330140 | 203 | TSHA 5502 | 81D30-36 | 8300482 | 217 | LL 4148 |
| 14D1 | 8330145 | 244 | BPW 82 | 81D37-38 | 8330140 | 203 | TSHA 5502 |
| 14D2-3 | 8330140 | 203 | TSHA 5502 | 81D39 | 8300482 | 217 | LL 4148 |

NB! 1D2 and 1D9 are made in sets of two and therefore they both have to be replaced.

For Service Manuals Contact
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 Oxon OX9 4QY
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 Email:- enquiries@mauritron.co.uk

LIST OF ELECTRICAL PARTS

Resistors not mentioned are standard

PCB 1,
8002671 HF type 2331/32
8002818 HF type 2333/35
8002908 HF type 2334

* only type 2333/34

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Email: enquiries@mauritron.co.uk

| | | | | | |
|------|---------|-------------------------|-------|---------|-------------------------|
| 0R1 | 5000194 | 3.3 M Ω 10% 1/2W | | | |
| 0C1 | 4200421 | 100 μ F -10+50% 63V | | | |
| 0F1 | 6600009 | Fuse 2A-T/250 | 0F1 | 6600019 | Fuse 5A |
| R25 | 5370074 | 10 k Ω 20% 1W | R142 | 5020336 | 69.8 k Ω 1% 1/4W |
| R51 | 5370128 | 100 k Ω 20% 0.1W | R143 | 5020263 | 100 k Ω 1% 1/4W |
| R73 | 5370156 | 220 k Ω 20% 0.1W | R200* | 5020257 | 71.5 k Ω 1% 1/4W |
| R141 | 5020263 | 100 k Ω 1% 1/4W | R204 | 5370061 | 47 k Ω 20% 0.1W |
| C2 | 4010041 | 10 nF -20+80% 40V | C56 | 4340003 | 5.5-65 pF |
| C3 | 4010063 | 4.7 nF 10% 63V | C57 | 4130179 | 100 nF 20% 63V |
| C4 | 4010076 | 22 nF -20+80% 40V | C58 | 4130179 | 100 nF 20% 63V |
| C5 | 4010063 | 4.7 nF 10% 63V | C59 | 4130215 | 220 nF 20% 63V |
| C6 | 4010076 | 22 nF -20+80% 40V | C60 | 4130210 | 47 nF 20% 63V |
| C7 | 4010063 | 4.7 nF 10% 63V | C61 | 4200477 | 4.7 μ F 20% 25V |
| C8 | 4010063 | 4.7 nF 10% 63V | C62 | 4200477 | 4.7 μ F 20% 25V |
| C9 | 4200426 | 1 μ F 20% 50V | C63 | 4130210 | 47 nF 20% 63V |
| C10 | 4200431 | 10 μ F 20% 16V | C64 | 4200423 | 2.2 μ F 20% 50V |
| C11 | 4010027 | 1 nF 10% 63V | C65 | 4200628 | 100 μ F 20% 16V |
| C12 | 4010027 | 1 nF 10% 63V | C66 | 4010041 | 10 nF -20+80% 40V |
| C13 | 4200477 | 4.7 μ F 20% 25V | C67 | 4130210 | 47 nF 20% 63V |
| C14 | 4000199 | 82 pF 5% 63V | C68 | 4100210 | 1.5 nF 5% 63V |
| C15 | 4010041 | 10 nF -20+80% 40V | C69 | 4100210 | 1.5 nF 5% 63V |
| C16 | 4010041 | 10 nF -20+80% 40V | C70 | 4000215 | 68 pF 5% 63V |
| C17 | 4010041 | 10 nF -20+80% 40V | C71 | 4010076 | 22 nF -20+80% 40V |
| C18 | 4010041 | 10 nF -20+80% 40V | C72 | 4000057 | 47 pF 5% 63V |
| C19 | 4010041 | 10 nF -20+80% 40V | C73 | 4130136 | 1 μ F 20% 100V |
| C20 | 4200480 | 22 μ F 20% 10V | C76 | 4100247 | 1.8 nF 5% 63V |
| C21 | 4010041 | 10 nF -20+80% 40V | C77 | 4010061 | 2.2 nF 10% 63V |
| C22 | 4010062 | 330 pF 10% 63V | C78 | 4130179 | 100 nF 20% 63V |
| C23 | 4010041 | 10 nF -20+80% 40V | C79 | 4130210 | 1.5 nF 5% 63V |
| C24 | 4130310 | 1 μ F 10% 50V | C79* | 4100238 | 3.3 nF 5% 63V |
| C25 | 4010062 | 330 pF 10% 63V | C80 | 4130179 | 100 nF 20% 63V |
| C26 | 4130179 | 100 nF 20% 63V | C81 | 4340003 | 5.5-65 pF |
| C27 | 4010027 | 1 nF 10% 63V | C82 | 4130179 | 100 nF 20% 63V |
| C28 | 4010027 | 1 nF 10% 63V | C83 | 4340002 | 2-22 pF |
| C29 | 4000069 | 100 pF 5% 63V | C84 | 4130215 | 220 nF 20% 63V |
| C30 | 4130179 | 100 nF 20% 63V | C85 | 4010061 | 2.2 nF 10% 63V |
| C31 | 4010061 | 2.2 nF 10% 63V | C86 | 4130215 | 220 nF 20% 63V |
| C32 | 4010076 | 22 nF -20+80% 40V | C87 | 4010027 | 1 nF 10% 63V |
| C33 | 4000069 | 100 pF 5% 63V | C88 | 4130210 | 47 nF 20% 63V |
| C34 | 4200431 | 10 μ F 20% 16V | C89 | 4010076 | 22 nF -20+80% 40V |
| C36 | 4200431 | 10 μ F 20% 16V | C90 | 4010076 | 22 nF -20+80% 40V |
| C37 | 4010062 | 330 pF 10% 63V | C92 | 4200431 | 10 μ F 20% 16V |
| C38 | 4200431 | 10 μ F 20% 16V | C93 | 4010076 | 22 nF -20+80% 40V |
| C39 | 4030023 | 47 nF -20+80% 16V | C94 | 4010027 | 1 nF 10% 63V |
| C40 | 4200476 | 0.47 μ F 20% 50V | C96 | 4130179 | 100 nF 20% 63V |
| C41 | 4200426 | 1 μ F 20% 50V | C97 | 4130179 | 100 nF 20% 63V |
| C42 | 4200426 | 1 μ F 20% 50V | C200 | 4100209 | 470 pF 5% 63V |
| C43 | 4010041 | 10 nF -20+80% 40V | C200* | 4100236 | 1 nF 5% 63V |
| C45 | 4200628 | 100 μ F 20% 16V | C201 | 4200431 | 10 μ F 20% 16V |
| C48 | 4000057 | 47 pF 5% 63V | C202 | 4100238 | 3.3 nF 5% 63V |
| C49 | 4130179 | 100 nF 20% 63V | C203 | 4100235 | 680 pF 5% 63V |
| C50 | 4130179 | 100 nF 20% 63V | C204 | 4100261 | 6.8 nF 2.5% 63V |
| C51 | 4100228 | 330 pF 5% 63V | C205 | 4100260 | 2.2 nF 2.5% 63V |
| C52 | 4003135 | 39 pF 5% 63V | C206 | 4100210 | 1.5 nF 5% 63V |
| C53 | 4003135 | 39 pF 5% 63V | C207 | 4200477 | 4.7 μ F 20% 25V |
| C54 | 4100233 | 150 pF 5% 63V | C208 | 4130179 | 100 nF 20% 63V |
| C55 | 4340002 | 2-22 pF | | | |
| L1 | 8020578 | Coil 10 μ H 10% | L8 | 8020559 | Coil osc. MB |
| L2 | 8020568 | Coil 2.7 μ H | L9 | 8020560 | Coil osc. LB |
| L3 | 8020569 | Coil 18 μ H 10% | L11 | 8020558 | Coil antenne LB |
| L4 | 8020627 | Coil 10 μ H 10% | L12 | 8020557 | Coil antenne MB |
| L5 | 8022240 | Coil 19.5 MH 2% | L13 | 8020561 | Coil 455 Hz |

| | | | | | |
|------|---------|-------------------------|------|---------|-------------------------|
| L14 | 8020562 | Coil 455 Hz | L201 | 8022239 | Coil 32 MH 2% 19-38 kHz |
| L200 | 8022239 | Coil 32 MH 2% 19-38 kHz | | | |

| | | | | | |
|-----|---------|----------|-----|---------|-----------------|
| BP1 | 8030118 | 10.7 MHz | BP3 | 8030118 | 10.7 MHz |
| BP2 | 8030118 | 10.7 MHz | BP4 | 8030056 | 455 kHz ± 1 kHz |

| | | | | | |
|-----|---------|------------------------------|-----|---------|-----------------|
| TU1 | 8050093 | Tuner type 2331/ 32/33/35 | TU1 | 8050102 | Tuner type 2334 |
|-----|---------|------------------------------|-----|---------|-----------------|

| | | | | | |
|----|---------|----------------------------|----|---------|-----------------|
| X1 | 8030087 | Crystal 456 kHz ± 1 kHz | X2 | 8030088 | Crystal 455 kHz |
|----|---------|----------------------------|----|---------|-----------------|

| | | | | | |
|----|---------|---------------|----|---------|--------|
| P1 | 7220431 | Plug 9/9 pins | P3 | 7220312 | Plug |
| P2 | 7220428 | Plug 6/6 pins | P4 | 7210612 | Socket |

| | | | | | |
|-----|---------|-----------------|------|---------|-----------------|
| R7 | 5020239 | 24.3 kΩ 1% 1/4W | R50 | 5220036 | 330 kΩ 10% 1/2W |
| R8 | 5020219 | 5.36 kΩ 1% 1/4W | R211 | 5010797 | 390 Ω 2% 1/4W |
| R11 | 5020770 | 4.42 kΩ 1% 1/4W | R214 | 5020110 | 10 kΩ 1% 1/4W |
| R12 | 5020291 | 3.32 kΩ 1% 1/4W | R215 | 5020633 | 150 Ω 5% 0.35W |
| R15 | 5020231 | 11.3 kΩ 1% 1/4W | R220 | 5020658 | 270 Ω 5% 0.3W |
| R16 | 5020335 | 10.2 kΩ 1% 1/4W | R221 | 5020658 | 270 Ω 5% 0.3W |
| R30 | 5020200 | 2.1 kΩ 1% 1/4W | R226 | 5370240 | 100 Ω 20% 0.1W |
| R40 | 5220036 | 330 kΩ 10% 1/2W | R228 | 5102016 | 0.22 Ω 10% 1W |
| R33 | 5020194 | 1.58 kΩ 1% 1/4W | R229 | 5100334 | 0.22 Ω 10% 1W |

| | | | | | |
|-----|---------|---------------------|------|---------|---------------------|
| C1 | 4130103 | 100 nF 20% 250V | C200 | 4200368 | 100 μF -10+100% 63V |
| C2 | 4130103 | 100 nF 20% 250V | C201 | 4130176 | 33 nF 20% 63V |
| C3 | 4130280 | 220 nF 20% 100V | C202 | 4200423 | 2.2 μF 20% 50V |
| C4 | 4130280 | 220 nF 20% 100V | C203 | 4000092 | 180 pF 5% 63V |
| C5 | 4130280 | 220 nF 20% 100V | C204 | 4010063 | 4.7 nF 10% 63V |
| C8 | 4200431 | 10 μF 20% 16V | C205 | 4200478 | 100 μF 20% 10V |
| C9 | 4200431 | 10 μF 20% 16V | C206 | 4200478 | 100 μF 20% 10V |
| C16 | 4010063 | 4.7 nF 10% 63V | C207 | 4000136 | 22 pF 5% 63V |
| C10 | 4200688 | 47 μF 20% 50V | C208 | 4003130 | 47 pF 2% 63V |
| C11 | 4200480 | 22 μF 20% 10V | C209 | 4130193 | 22 nF 20% 63V |
| C12 | 4130179 | 100 nF 20% 63V | C210 | 4130215 | 220 nF 20% 63V |
| C13 | 4130179 | 100 nF 20% 63V | C211 | 4130215 | 220 nF 20% 63V |
| C14 | 4200431 | 10 μF 20% 16V | C212 | 4200476 | 0.47 μF 20% 50V |
| C15 | 4200423 | 4700 μF -10+50% 16V | C213 | 4200431 | 10 μF 20% 16V |
| C20 | 4010063 | 4.7 nF 10% 63V | | | |

| | | |
|------|---------|-------------|
| L200 | 6850114 | Coil 0.5 μH |
|------|---------|-------------|

| | | |
|-----|---------|----------|
| RL6 | 7600046 | Relay 6V |
|-----|---------|----------|

| | | | | | |
|----------|---------|------------------|----|---------|-------------|
| F1 | 6600020 | Fuse T2.5-T/250V | F2 | 6600076 | Fuse 0.5A-F |
| F1(2333) | 6600075 | Fuse T2.5A-T | | | |

| | | | | | |
|-----|---------|---------------|-----|---------|---------------|
| P14 | 7220431 | Plug 9/9 pins | P24 | 7220195 | Plug 2/2 pins |
| P15 | 7220429 | Plug 7/7 pins | | 7220580 | Plug 2 pins |
| P18 | 7220160 | Plug 5/4 pins | | 7220510 | Jack plug |
| P23 | 7220185 | Plug 3/3 pins | | | |

| | |
|---------|-------------|
| 7200223 | Fuse holder |
|---------|-------------|

| | | | | | |
|-----|---------|-------------|------|---------|-----------------|
| R9 | 5020455 | 470 Ω 5% 1W | R223 | 5020019 | 36.5 kΩ 1% 1/4W |
| R10 | 5020455 | 470 Ω 5% 1W | | | |

| | | | | | |
|-----|---------|----------------|------|---------|-----------------|
| C1 | 4130193 | 22 nF 20% 63V | C11 | 4200476 | 0.47 μF 20% 50V |
| C2 | 4010063 | 4.7 nF 10% 63V | C12 | 4010006 | 2.2 nF 10% 63V |
| C3 | 4130226 | 220 nF 10% 63V | C13 | 4010006 | 2.2 nF 10% 63V |
| C6 | 4200688 | 47 μF 20% 50V | C200 | 4200423 | 2.2 μF 20% 50V |
| C7 | 4130224 | 100 nF 10% 63V | C201 | 4000094 | 150 pF 5% 63V |
| C8 | 4130224 | 100 nF 10% 63V | C202 | 4010065 | 2.7 nF 10% 63V |
| C9 | 4200431 | 10 μF 20% 16V | C203 | 4000094 | 150 pF 5% 63V |
| C10 | 4200431 | 10 μF 20% 16V | C204 | 4010167 | 2.7 nF 10% 100V |

PCB 2, 8002679,
8002914 Type 2333
Output and Power supply.

For Service Manuals Contact
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8 Cherry Tree Rd, Chinnor
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Email:- enquiries@mauritron.co.uk

PCB 3, 8002675,
Pre-amplifier.

| | | | | | |
|------|---------|--------------------|------|---------|--------------------|
| C205 | 4130213 | 10 nF 10% 63V | C223 | 4130176 | 33 nF 20% 63V |
| C206 | 4200426 | 1 μ F 20% 50V | C224 | 4200426 | 1 μ F 20% 50V |
| C207 | 4200426 | 1 μ F 20% 50V | C225 | 4003128 | 100 pF 5% 63V |
| C208 | 4200426 | 1 μ F 20% 50V | C226 | 4200426 | 1 μ F 20% 50V |
| C209 | 4000094 | 150 pF 5% 63V | C227 | 4010061 | 2.2 nF 10% 63V |
| C210 | 4003128 | 100 pF 5% 63V | C228 | 4200431 | 10 μ F 10% 63V |
| C211 | 4000094 | 150 pF 5% 63V | C229 | 4130244 | 22 nF 10% 63V |
| C212 | 4010024 | 470 pF 10% 63V | C230 | 4130224 | 100 nF 10% 63V |
| C213 | 4010111 | 3.3 nF 10% 63V | C231 | 4130213 | 10 nF 10% 63V |
| C217 | 4000023 | 150 pF 5% 63V | C232 | 4130224 | 100 nF 10% 63V |
| C218 | 4200426 | 1 μ F 20% 50V | C233 | 4200426 | 1 μ F 20% 50V |
| C219 | 4000173 | 47 pF 5% 63V | C235 | 4130214 | 10 nF 20% 63V |
| C220 | 4000094 | 150 pF 5% 63V | C236 | 4130214 | 10 nF 20% 63V |
| C221 | 4200426 | 1 μ F 20% 50V | C237 | 4130214 | 10 nF 20% 63V |
| C222 | 4200431 | 10 μ F 20% 16V | C238 | 4010027 | 1 nF 10% 63V |

L1 8020621 Coil 100 μ H

RL1 7600073 Relay 6V

| | | | | | |
|----|---------|---------------|-----|---------|---------------|
| P5 | 7220425 | Plug 3/3 pins | P9 | 7220585 | Plug 5/5 pins |
| P6 | 7220428 | Plug 6/6 pins | P10 | 7220425 | Plug 3/3 pins |
| P7 | 7220428 | Plug 6/6 pins | P21 | 7220206 | Plug 5/4 pins |
| P8 | 7220429 | Plug 7/7 pins | P22 | 7220313 | Plug 3/3 pins |

PCB 4. 8022607,
Microcomputer.

| | | | | | |
|-----|---------|------------------------|-----|---------|-------------------|
| C1 | 4200364 | 47 μ F -10+50% 10V | C28 | 4010035 | 1 nF 10% 63V |
| C2 | 4010041 | 10 nF -20+80% 40V | C29 | 4010035 | 1 nF 10% 63V |
| C3 | 4130228 | 470 nF 20% 63V | C30 | 4000167 | 18 pF 5% 63V |
| C4 | 4130225 | 150 nF 10% 63V | C31 | 4000167 | 18 pF 5% 63V |
| C5 | 4010035 | 1 nF 10% 63V | C32 | 4010041 | 10 nF -20+80% 40V |
| C6 | 4010035 | 1 nF 10% 63V | C35 | 4130225 | 150 nF 10% 63V |
| C7 | 4010035 | 1 nF 10% 63V | C36 | 4010024 | 470 pF 10% 63V |
| C8 | 4010035 | 1 nF 10% 63V | C37 | 4003128 | 100 pF 5% 63V |
| C9 | 4010035 | 1 nF 10% 63V | C38 | 4010061 | 2.2 nF 10% 63V |
| C10 | 4200414 | 33 μ F -10+50% 16V | C39 | 4130228 | 470 nF 20% 63V |
| C12 | 4010041 | 10 nF -20+80% 40V | C40 | 4010024 | 470 pF 10% 63V |
| C15 | 4130225 | 150 nF 10% 63V | C41 | 4000173 | 47 pF 5% 63V |
| C16 | 4010035 | 1 nF 10% 63V | C42 | 4010024 | 470 pF 10% 63V |
| C17 | 4010035 | 1 nF 10% 63V | C43 | 4010301 | 15 nF 10% 63V |
| C18 | 4010035 | 1 nF 10% 63V | C44 | 4010024 | 470 pF 10% 63V |
| C19 | 4010035 | 1 nF 10% 63V | C45 | 4100173 | 47 pF 5% 63V |
| C20 | 4010035 | 1 nF 10% 63V | C46 | 4003128 | 100 pF 5% 63V |
| C21 | 4010035 | 1 nF 10% 63V | C47 | 4003128 | 100 pF 5% 63V |
| C22 | 4000173 | 47 pF 5% 63V | C48 | 4010024 | 470 pF 10% 63V |
| C23 | 4010035 | 1 nF 10% 63V | C49 | 4010041 | 10 nF -20+80% 40V |
| C24 | 4010035 | 1 nF 10% 63V | C50 | 4010024 | 470 pF 10% 63V |
| C25 | 4010035 | 1 nF 10% 63V | C51 | 4010027 | 1 nF 10% 63V |
| C26 | 4010035 | 1 nF 10% 63V | | | |

L1 8020342 Coil 10 μ H
L2 8020342 Coil 10 μ H
L3 8020342 Coil 10 μ H

BP1 8030056 455 kHz \pm 1 kHz

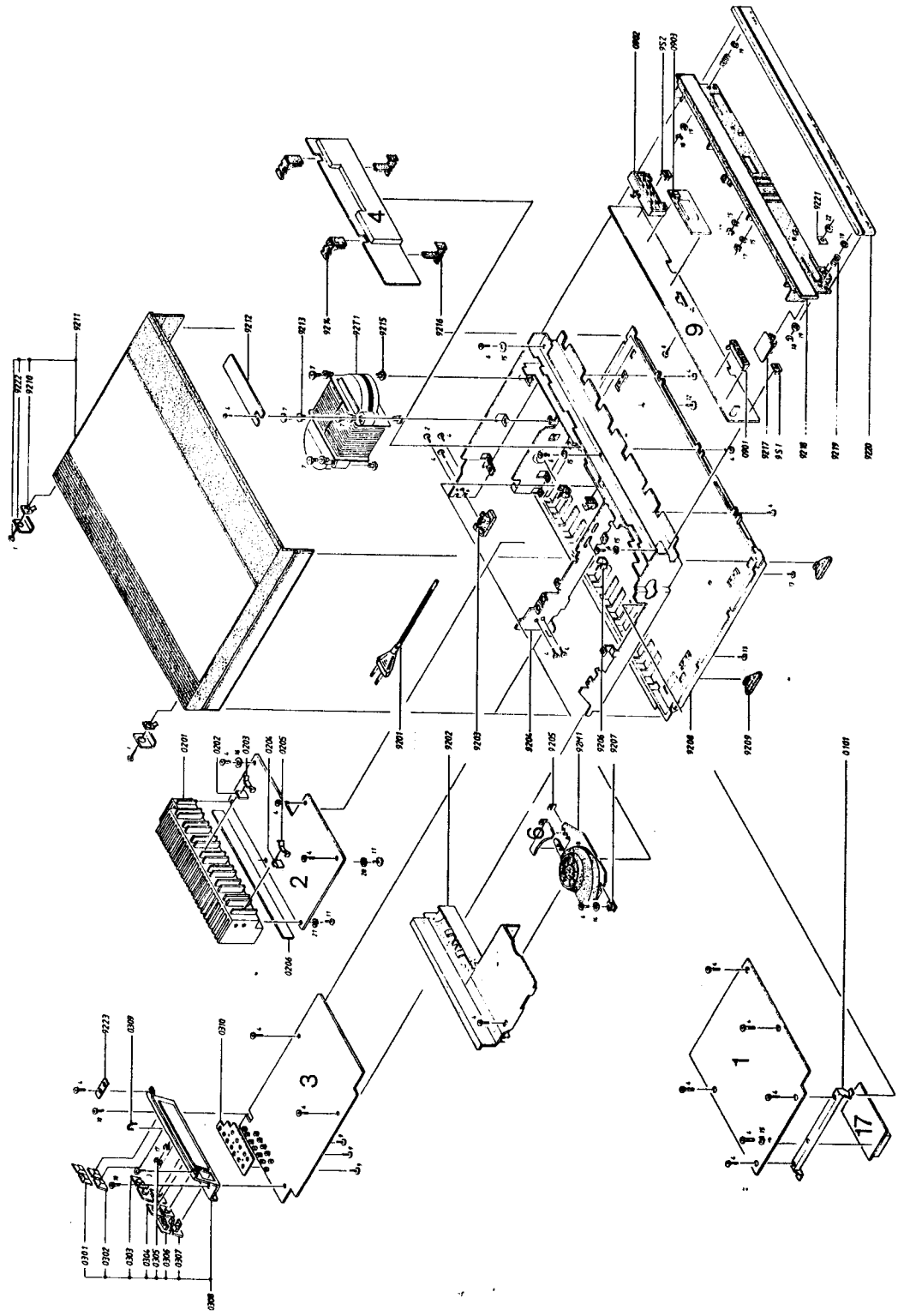
X1 8090056
X2 8030024 455 kHz \pm 1 kHz

F1 6604009 Fuse 1 A

| | | | | | |
|-----|---------|-----------------|-----|---------|---------------|
| P12 | 7220554 | Plug 12/12 pins | P17 | 7220317 | Plug 4/4 pins |
| P13 | 7220554 | Plug 13/12 pins | P25 | 7220176 | Plug 2/2 pins |
| P16 | 7220585 | Plug 5/5 pins | | | |

PCB 6, 8002173,
Fan regulation

| | | | | | |
|----|---------|-------------------------|----|---------|-------------------------|
| R3 | 5020565 | 8.25 k Ω 1% 1/4W | R7 | 5020539 | 47.5 k Ω 1% 1/4W |
| R5 | 5230012 | 15 Ω 20% 1.8W | | | |



MEKANISK STYKLISTE MECHANICAL PARTS LIST

| | | | |
|---------|---------|---------------------------|-----------------------------|
| 01Modul | 8002671 | PCB HF, type 2331/32 | PCB RF, type 2331/32 |
| | 8002818 | PCB HF, type 2333/35 | PCB RF, type 2333/34/35 |
| | 8002908 | PCB HF, type 2334 | PCB HF, type 2334 |
| 0101 | 2566047 | Skinne | Rail |
| 02Modul | 8002679 | PCB Udgang & Netdel | PCB Output and power supply |
| 0201 | 2568679 | Køleprofil | Heatsink |
| 0202 | 6141103 | Print | PC-Board |
| 0203 | 2819175 | Fjeder | Spring |
| 0204 | 2622231 | Glimmerskive | Mica sheet |
| 0205 | 2819175 | Fjeder | Spring |
| 0206 | 2560123 | Skinne | Rail |
| 03Modul | 8002675 | PCB Indgang | PCB Preamplifier |
| 0301 | 7210520 | Stikdåse højttaler 3 pol | Socket loudspeaker 3 pole |
| 0302 | 7210521 | Stikdåse højttaler 4 pol | Socket loudspeaker 4 pole |
| 0303 | 7210519 | Stikdåse 6 pol | Socket 6-pole |
| 0304 | 7210600 | Stikdåse 7 pol | Socket 7-pole |
| 0305 | 2382009 | Fingermøtrik | Milled nut |
| 0306 | 7210558 | Stikdåse AM | Socket AM |
| 0307 | 7210557 | Stikdåse FM | Socket FM |
| 0308 | 8002866 | Stikpanel kompl. | Socket panel compl. |
| 0309 | 2510134 | Kortslutningsbøjle | Shortcircuit bracket |
| 0310 | 3014059 | Styr | Guide |
| 04Modul | 8002607 | PCB Microcomputer | PCB Microcomputer |
| 06Modul | 8002173 | PCB Motorstyring | PCB Fan regulation |
| 09Modul | 8002268 | PCB Display | PCB Display |
| 0901 | 3131252 | Hus, display | Housing, display |
| 0902 | 3131260 | Hus, program | Housing, programme |
| 0903 | 8002683 | Print | PC-Board |
| 9S1 | 7400268 | Omskifter 1 pol. | Switch 1-pole |
| 9S2 | 7400268 | Omskifter 1 pol. | Switch 1-pole |
| 17Modul | 8002262 | PCB Tuner FM | |
| 9201 | 6271102 | Netledning m/eurostik | Mains cable with Euro plug |
| | 6270251 | Netledning for type 2333 | Mains cable for type 2333 |
| | 6271119 | Netledning for type 2334 | Mains cable for type 2334 |
| | 6271091 | Netledning for type 2335 | Mains cable for type 2335 |
| 9202 | 3131211 | Hus for blæser | Housing for fan |
| 9203 | 3152367 | Ledningsholder | Cable holder |
| 9204 | 3454373 | Ramme | Frame |
| 9205 | 2938205 | Bøsning | Bushing |
| 9206 | 3152366 | Ledningsholder | Cable holder |
| 9207 | 2938206 | Bøsning | Bushing |
| 9208 | 3454384 | Bund | Bottom |
| 9209 | 3035119 | Gummifod | Rubber foot |
| 9210 | 2391059 | Låseplade | Locking plate |
| 9211 | 3413008 | Kabinet - alu | Cabinet - aluminium |
| 9212 | 8002778 | PCB mont. sikring | PCB mount. fuse, |
| | | type 2331/32/35 | type 2331/32/35 |
| | 8002814 | PCB mont. sikring | PCB mount. fuse, |
| | | type 2333/2334 | type 2333//2334 |
| 9213 | 2938154 | Bøsning | Bushing |
| 9214 | 3152341 | Holder | Holder |
| 9215 | 2938154 | Bøsning | Bushing |
| 9216 | 3014060 | Holder | Holder |
| 9217 | 8002680 | PCB hovedtelefon med stik | PCB Headphones with plugs |
| 9218 | 3114262 | Display - hus | Display - housing |
| 9219 | 2812095 | Fjeder | Spring |
| 9220 | 2568920 | Skinne | Rail |
| 9221 | 2640050 | Låseplade | Locking plate |
| 9222 | 3034073 | Låseplade | Locking plate |
| 9223 | 3170152 | Isolationsstykke | Insulation piece |

For Service Manuals Contact
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 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
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 Email: enquiries@mauritron.co.uk

Master Control Panel,
Type 2048
Master Control Panel,
Type 2048

| | | | |
|------|---------|-------------------------|-----------------------|
| 92T1 | 8013354 | Transformator type 2331 | Transformer type 2331 |
| | 8013362 | Transformator type 2332 | Transformer type 2332 |
| | 8013363 | Transformator type 2333 | Transformer type 2333 |
| | 8013364 | Transformator type 2334 | Transformer type 2334 |
| | 8013365 | Transformator type 2335 | Transformer type 2335 |

| | | | |
|------|---------|---------------|--------------|
| 92M1 | 8410011 | Blæser kompl. | Fan complete |
|------|---------|---------------|--------------|

| | | | |
|--|---------|----------------------|-------------------|
| | 6275615 | Hoved lednings bundt | Main cable bundel |
|--|---------|----------------------|-------------------|

| | | | |
|---------|---------|---------------|----------------|
| 11Modul | 8002685 | PCB Betjening | PCB Keyboard |
| 1101 | 7500211 | Kontaktfjeder | Contact spring |
| 1102 | 7500211 | Kontaktfjeder | Contact spring |

| | | | |
|---------|---------|-------------------|-------------------|
| 12Modul | 8002690 | PCB Microcomputer | PCB Microcomputer |
|---------|---------|-------------------|-------------------|

| | | | |
|---------|---------|------------------|---------------|
| 13Modul | 8002873 | PCB IR - venstre | PCB IR - left |
|---------|---------|------------------|---------------|

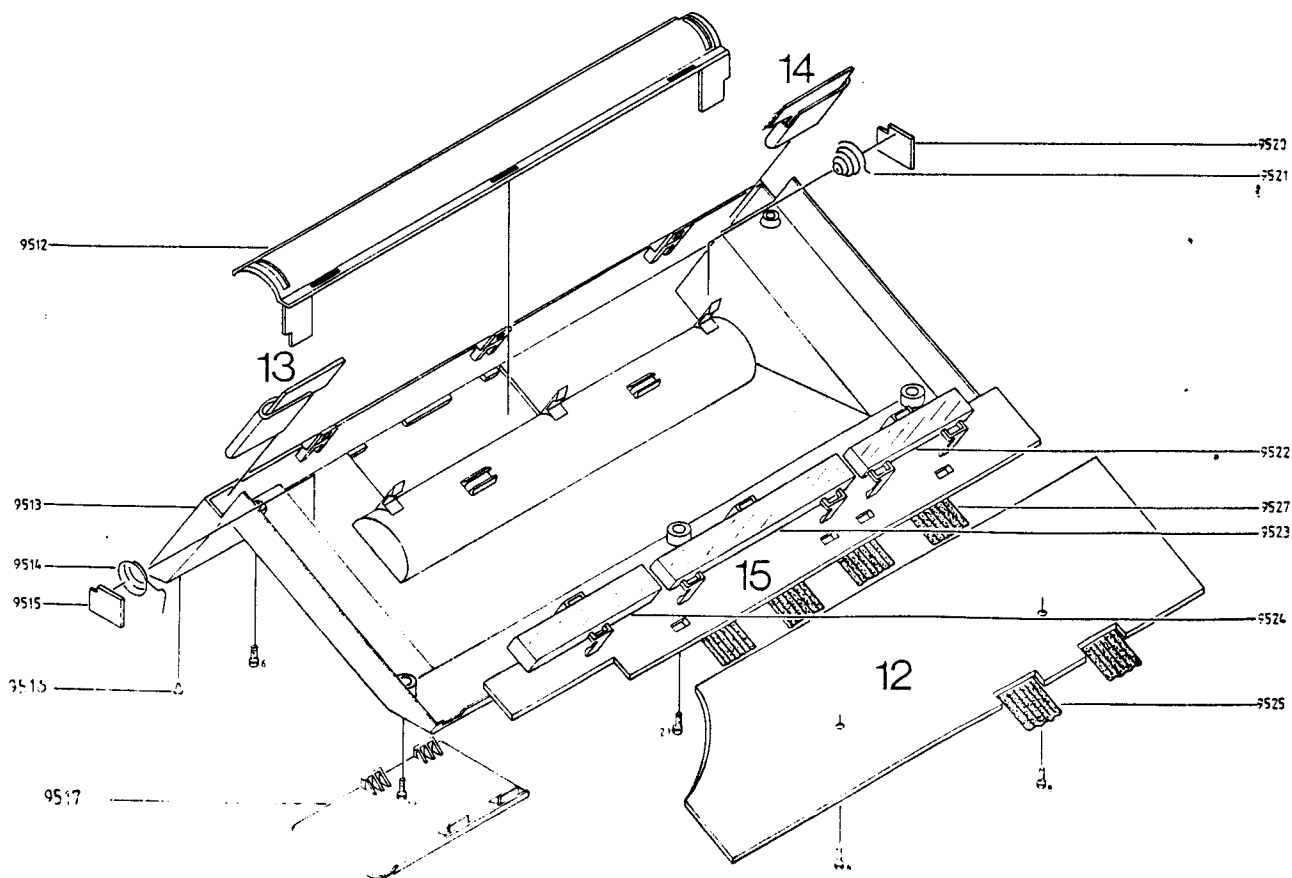
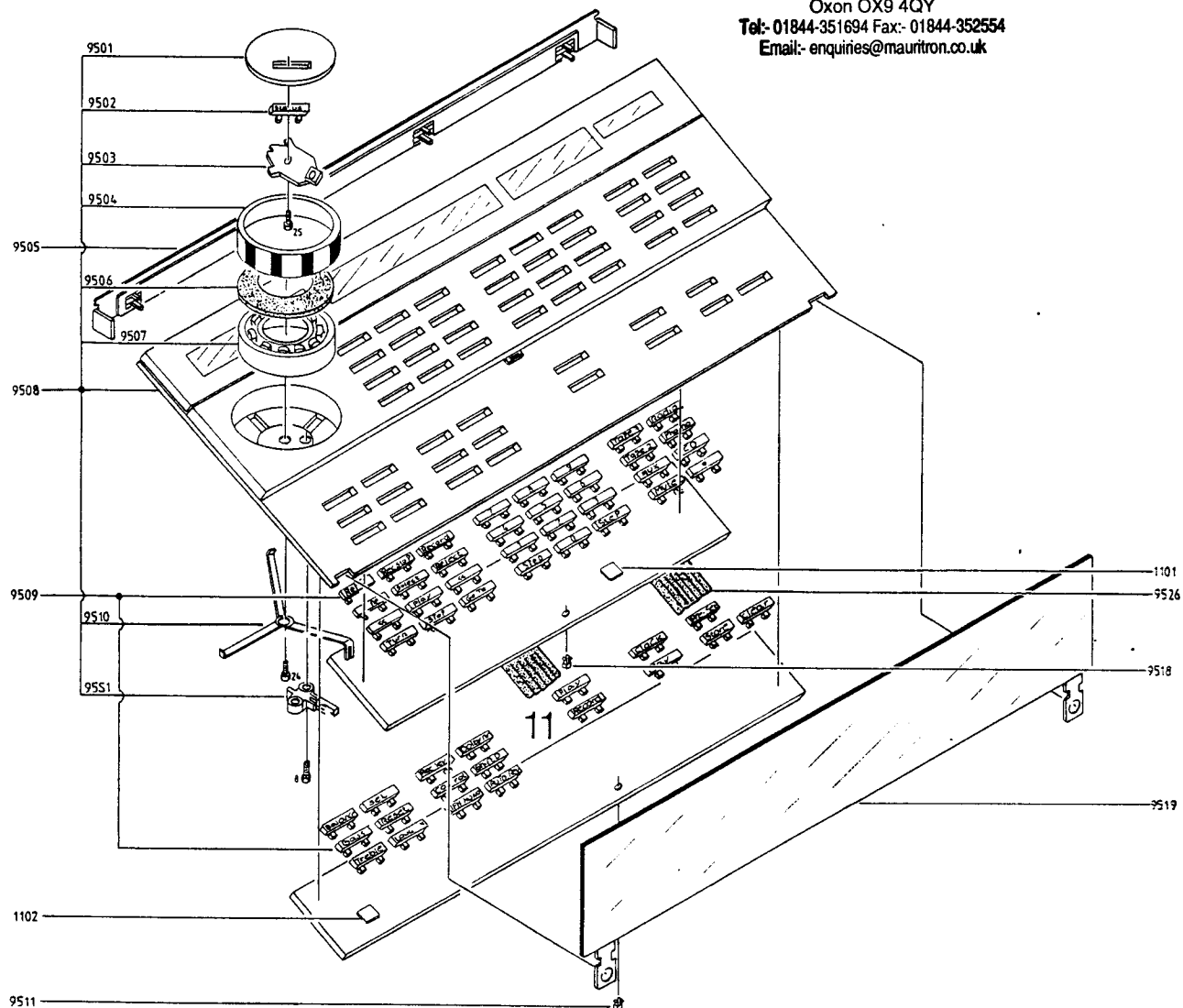
| | | | |
|---------|---------|----------------|----------------|
| 14Modul | 8002874 | PCB IR - højre | PCB IR - right |
|---------|---------|----------------|----------------|

| | | | |
|---------|---------|--------------|--------------|
| 15Modul | 8002694 | PCB, Display | PCB, display |
|---------|---------|--------------|--------------|

| | | | |
|------|---------|-----------------|----------------------|
| 9501 | 2804056 | Skive, volume | Washer, volume |
| 9502 | 2776036 | Knop, status | Button, status |
| 9503 | 8002872 | Print m. switch | PC-Board with switch |
| | 7400336 | Switch | Switch |
| 9504 | 2804053 | Hjul | Wheel |
| 9505 | 3322103 | IR - rude | IR - window |
| 9506 | 2622405 | Pakning | Packing |
| 9507 | 2900013 | Kugleleje | Ball bearing |
| 9508 | 3168707 | Panel kompl. | Panel compl. |
| 9509 | 2776081 | Knapsæt | Set of buttons |
| 9510 | 2854125 | Arm | Arm |
| 9511 | 2570050 | Afstandsstykke | Spacer |
| 9512 | 2952015 | Holder | Holder |
| 9513 | 3454326 | Bund | Bottom |
| 9514 | 2818075 | Fjeder | Spring |
| 9515 | 2805000 | Skærm | Screen |
| 9516 | 3010007 | Gummifod | Rubber foot |
| 9517 | 3164460 | Batteridæksel | Battery cover |
| 9518 | 2576050 | Afstandsstykke | Spacer |
| 9519 | 2568923 | Låg | Cover |
| 9520 | 2805000 | Skærm | Screen |
| 9521 | 2818074 | Fjeder | Spring |
| 9522 | 3131253 | Hus, display | Housing, display |
| 9523 | 3131254 | Hus, program | Housing, programme |
| 9524 | 3131255 | Hus, volume | Housing, volume |
| 9525 | 6200062 | Båndkabel | Ribbon cable |
| 9526 | 6200133 | Båndkabel | Ribbon cable |
| 9527 | 6200128 | Båndkabel | Ribbon cable |
| | 8700015 | Batteri | Battery |

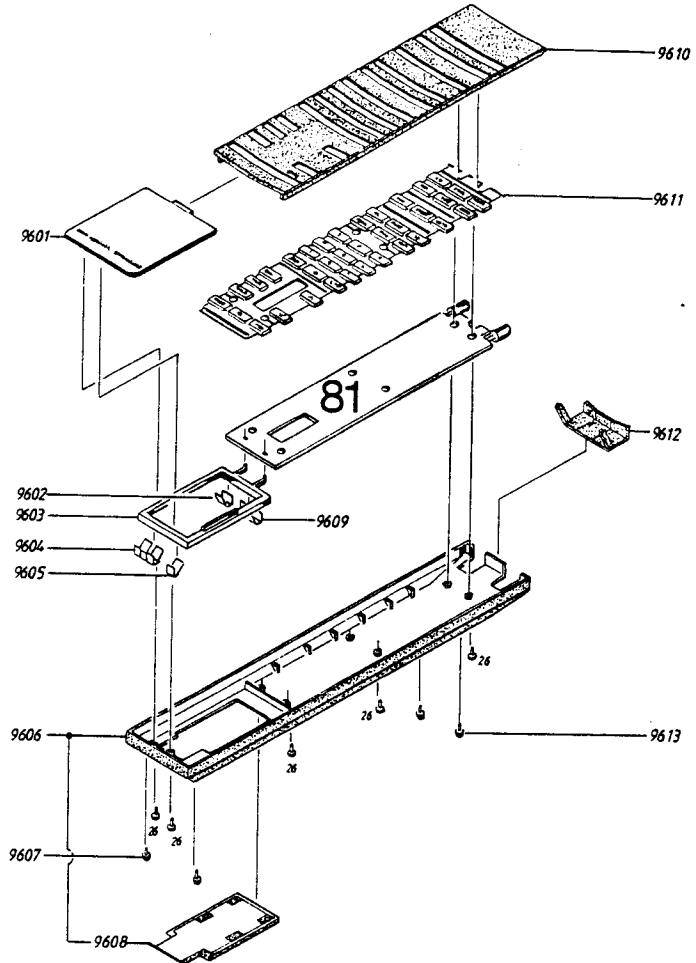
| | | | |
|------|---------|--------|--------|
| 95S1 | 7400356 | Switch | Switch |
|------|---------|--------|--------|

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Audio Terminal Type 2049

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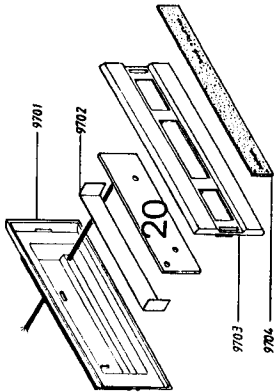


81Modul 8002806 PCB Audio terminal

PCB Audio terminal

| | | | |
|------|---------|------------------|-------------------|
| 9601 | 3164609 | Dæksel | Cover |
| 9602 | 2819229 | Fjeder | Spring |
| 9603 | 3015131 | Styr for batteri | Guide for battery |
| 9604 | 2819204 | Fjeder | Spring |
| 9605 | 2819205 | Fjeder | Spring |
| 9606 | 3131265 | Bund | Bottom |
| 9607 | 3341020 | Glidesko | Plastic foot |
| 9608 | 3164552 | Dæksel | Cover |
| 9609 | 2819228 | Fjeder | Spring |
| 9610 | 3131268 | Top | Top |
| 9611 | 2776038 | Knapsæt | Set of buttons |
| 9612 | 3375047 | Linse | Lenze |
| 9613 | 3341020 | Glidesko | Plastic foot |
| | 8700017 | Batteri | Battery |

IR - Sensor
Type 2001



| 20Modul | 8002839 | PCB IR-Sensor | PCB IR Sensor |
|---------|---------|----------------------|-----------------------|
| | 3152118 | Ledningsholder | Cable holder |
| 9701 | 3452535 | Bagpart | Rear part |
| 9702 | 3302431 | Skærm | Screen |
| 9703 | 3114263 | Skjulte | Locking plate |
| 9704 | 2568975 | Tangent | Key |
| | 3390286 | Tilbehør 1 | Accessories 1 |
| | 3390282 | Tilbehør 2 | Accessories 2 |
| | 3502582 | Installations vejli. | Mounting instructions |

Ikke viste dele:
Parts not shown:

| | | |
|---------|-----------------------------------|-----------------------------------|
| 3397571 | Skumemballage f. Beomaster | Foam packing set for Beomaster |
| 3917049 | Indlæg f. Beomaster | Insert for Beomaster |
| 3391251 | Yderæske for Beomaster | Outer carton for Beomaster |
| 3397495 | Skumemballage sæt f. MCP | Foam packing set for MCP |
| 3391687 | Indlæg f. MCP | Insert for MCP |
| 3391273 | Yderæske f. MCP | Outer carton for MCP |
| 3395003 | Skumemballage f. Terminal | Foam packing for Terminal |
| 3395001 | Yderæske f. Terminal | Outer carton for Terminal |
| 3391840 | Yderæske f. IR-Sensor | Outer carton for IR Sensor |
| 6270349 | Adaptor Sensor/Remote Main switch | Adaptor Sensor/Remote Main switch |

Skruer, skiver m.m.
Screws, washers etc.

| | | | |
|----|---------|--------------------------|--------------------------|
| 1 | 2043016 | Skrue AM 4x10 DIN 7985 | Screw AM 4x10 DIN 7985 |
| 2 | 2015913 | Skrue M 3,5x9,5 DIN 7981 | Screw M 3,5x9,5 DIN 7981 |
| 3 | 2039019 | Skrue AM 3x5 DIN 965 | Screw AM 3x5 DIN 965 |
| 4 | 2039020 | Skrue AM 3x5 DIN 7985 | Screw AM 3x5 DIN 7985 |
| 5 | 2039030 | Skrue AM 3x10 DIN 7985 | Screw AM 3x10 DIN 7985 |
| 6 | 2039035 | Skrue M 3x8 | Screw M 3x8 |
| 7 | 2043003 | Skrue AM 4x25 DIN 7985 | Screw AM 4x25 DIN 7985 |
| 8 | 2013118 | Skrue PT 3x8 | Screw PT 3x8 |
| 9 | 2039028 | Skrue AM 3x8 DIN 7985 | Screw AM 3x8 DIN 7985 |
| 10 | 2039069 | Skrue AM 3x8 DIN 7985 | Screw AM 3x8 DIN 7985 |
| 11 | 2013069 | Skrue U 2,9x7,9 DIN 7981 | Screw U 2,9x7,9 DIN 7981 |
| 12 | 2039062 | Skrue M 3x5 | Screw M 3x5 |
| 13 | 2043020 | Skrue AM 4x6 DIN 7985 | Screw AM 4x6 DIN 7985 |
| 14 | 2622015 | Skive 3,2 | Washer 3,2 |
| 15 | 2622041 | Skive 3,2 DIN 125 | Washer 3,2 DIN 125 |
| 16 | 2625002 | Skive 3,2 DIN 6798 | Washer 3,2 DIN 6798 |
| 17 | 2380011 | Møtrik M3 DIN 934 | Nut M3 DIN 934 |
| 18 | 2380001 | Skive 2,3 Dm 6799 | Washer 2,3 Dm 6799 |
| 19 | 2620020 | Skive 3,2 | Washer 3,2 |
| 20 | 2622014 | Skive 3,2 | Washer 3,2 |
| 21 | 2622052 | Skive 3,2 | Washer 3,2 |
| 22 | 2380145 | Møtrik | Nut |
| 23 | 2029033 | Skrue M 3x6 | Screw M 3x6 |
| 24 | 2013080 | Skrue U 2,9x9,5 | Screw U 2,9x9,5 |
| 25 | 2013099 | Skrue U 2,9x6,5 | Screw U 2,9x6,5 |
| 26 | 2034006 | Skrue AM 2x5 DIN 965 | Screw AM 2x5 DIN 965 |

Moduleemballage/
Modulpacking

| Modul no. | Designation | Emb. no. |
|-----------|-------------------------|----------|
| 1 | HF | 3391792 |
| 2 | Output and Power supply | 3391792 |
| 3 | Preamplifier | 3391792 |
| 4 | Microcomputer | 3391792 |
| 9 | Display | 3391854 |
| 11 | Keyboard (MCP) | 3391792 |
| 12 | Microcomputer (MCP) | 3391576 |
| 15 | Display (MCP) | 3391792 |

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ELEKTRISKE JUSTERINGER

Henvisningerne er for højre kanal. (Henvisningerne i parantes er for venstre kanal).
Alle betjeninger gøres på Master Control Panellet.

5V Netdel

Tilslut DC voltmeter til 2P14-5.
Juster til $5.1V \pm 0.1V$ ved at afbryde eller kortslutte 2J38 og 2J43.

Tomgangsstrøm

Tomgangsstrømmen justeres medens modtageren er kold og med neddrejet volumekontrol.
Højtalere må ikke være tilsluttet.
Tilslut DC voltmeter mellem 2TP200 og 2TP201 (2TP400 og 2TP401).
Juster 2R226 (2R426) til 11mV.

Brightness (Display)

Tilslut DC voltmeter over 9R15.
Tryk AUX.
Juster 9R12 til 3.75V.

Strømforsyning (MCP)

Kortslut 12TP3 til stel.
Tilslut et DC voltmeter til kollektor på 12TR37.
Juster 12R117 til 4.75V.

Volume sensor (MCP)

Tilslut DC voltmeter til ben 2 på 12IC2.
Når volume hjulet drejes skal spændingen svinge minimum mellem 2V og 2.8V.
Eventuel justering kan gøres ved at klippe eller lodde 12R23, 12R25 eller 12J57.

ELECTRICAL ADJUSTMENTS

Instructions apply to the right channel. (Instructions given in brackets apply to the left channel). All operations are carried out from the Master Control Panel.

5V Power-supply unit

Connect DC voltmeter to 2P14-5.
Adjust to $5.1V \pm 0.1V$ by disconnecting or short-circuiting 2J38 and 2J43.

No-load current

Adjust the no-load current while the receiver is cold and with the volume control turned down.
Speakers must not be connected.
Connect DC voltmeter between 2TP200 and 2TP201 (2TP400 and 2TP401).
Adjust 2R226 (2R426) to 11mV.

Brightness (Display)

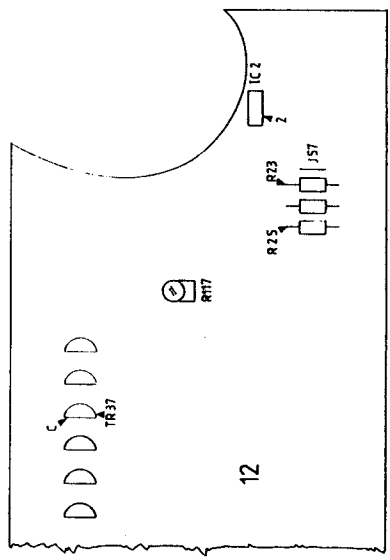
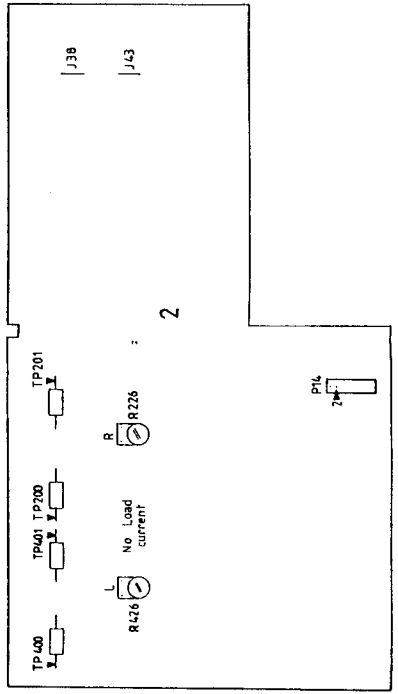
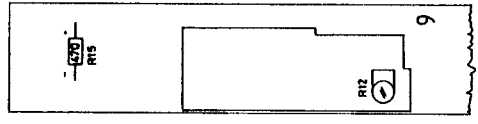
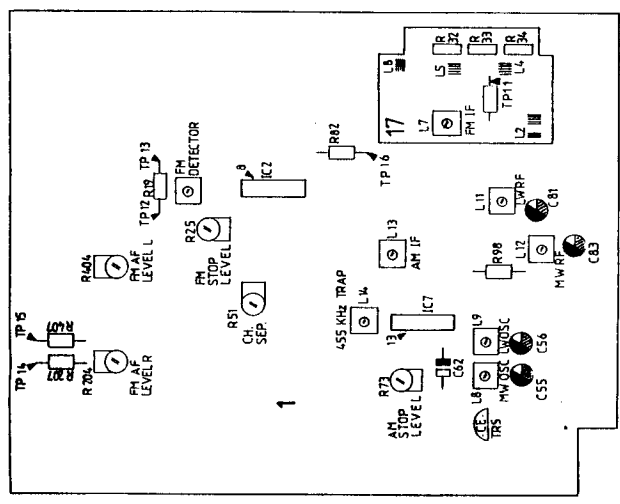
Connect DC voltmeter across 9R15.
Press AUX.
Adjust 9R12 to 3.75V.

Power supply (MCP)

Short-circuit 12TP3 with chassis.
Connect a DC voltmeter to the collector at 12TR37.
Adjust 12R117 to 4.75V.

Volume sensor (MCP)

Connect DC voltmeter to pin 2 at 12IC2.
When the volume wheel is turned, the voltage should oscillate between 2V and 2.8V as a minimum.
Any adjustments which might be necessary may be performed by cutting or soldering 12R23, 12R25 or 12J57.



HF JUSTERINGER

Ved visse justeringer skal AFT'en være in-aktiv. Dette ses ved at LOCKED indikatorens skal være slukket (LOCKED off). Ved justeringer uden AFT skal signalgeneratoren først tilsluttes, når modtagerens frekvens er indstillet.

Alle betjeninger gøres på Master Control Panelet.

Udskiftning på FM tuner

Ved udskiftning af FM tuner er det kun nødvendigt at justere MF spolen 17L7.

MF

Tilslut et oscilloskop til 11C2 ben 8.
Tryk RADIO.
Tryk TURN til displayet viser 87.5.
Tryk GO TO (LOCKED off).
Tilslut en sweepgenerator til antenneindgangen og indstil den til 87,5MHz.
Juster 17L7 til maksimum og symmetrisk MF kurve.

TUNER JUSTERINGER (KUN HVIS TUNEREN ER MISJUSTERET)

Oscillator

Der skal ikke tilføjes signal.
Tilslut DC voltmeter mellem 17TP11 og ben 8 på tuneren.
Tryk RADIO.
Tryk TURN til displayet viser 87,5.
Juster 17L8 til 0V.

HF 87,5 MHz

Tilslut et oscilloskop til 11C2 ben 8.
Tryk RADIO.
Tryk TURN til displayet viser 87,5.
Tryk GO TO (LOCKED off).
Tilslut en sweepgenerator til antenneindgangen og indstil den til 87,5MHz.
Juster 17L2, 17L4, 17L5 og 17L7 til maksimum og symmetrisk MF kurve.

HF 108 MHz

Tryk GO TO.
Tryk 1080.
Når displayet slukker, tryk GO TO (LOCKED off).
Sweepgeneratorens frekvens ændres til 108 MHz.
Juster 17R32, 17R33 og 17R34 til maksimum.

Detektor

Tilslut oscilloskop til 11C2 ben 8.
Tilslut DC voltmeter over 1R19 (1TP12 og 1TP13).
Tryk RADIO.
Tryk TURN til displayet viser 87,5.
Tryk GO TO.
Tryk 940.
Når displayet slukker, tryk GO TO (LOCKED off).

RF ADJUSTMENTS

The AFT needs to be inactive for certain adjustments. This is shown by the LOCKED indicator being off (LOCKED off). When adjustments are made without the AFT, the signal generator should not be connected until the frequency of the receiver has been set.

All operations are carried out from the Master Control Panel.

Replacement of FM tuner

When replacing an FM tuner, it is only necessary to adjust the IF coil 17L7.

IF

Connect an oscilloscope to 11C2 pin 8.
Press RADIO.
Press TURN until the display shows 87.5.
Press GO TO (LOCKED off).
Connect a sweep generator to the aerial input and adjust it to 87.5MHz.
Adjust 17L7 to maximum and symmetrical IF curve.

TUNER ADJUSTMENT (ONLY IF TUNER IS MALADJUSTED)

Oscillator

Do not input a signal.
Connect DC voltmeter between 17TP11 and the tuner's pin 8.
Press RADIO.
Press TURN until the display shows 87.5.
Adjust 17L8 to 0V.

RF 87.5 MHz

Connect an oscilloscope to 11C2 pin 8.
Press RADIO.
Press TURN until the display shows 87.5.
Press GO TO (LOCKED off).
Connect a sweep generator to the aerial input and adjust it to 87.5MHz.
Adjust 17L2, 17L4, 17L5 and 17L7 to maximum and symmetrical IF curve.

RF 108 MHz

Press GO TO.
Press 1080.
When the display goes off, press GO TO (LOCKED off).
Change sweep generator frequency to 108MHz.
Adjust 17R32, 17R33 and 17R34 to maximum.

Detector

Connect oscilloscope to 11C2 pin 8.
Connect DC voltmeter across 1R19 (1TP12 and 1TP13).
Press RADIO.
Press TURN until the display shows 87.5.
Press GO TO.
Press 940.
When the display goes off, press GO TO (LOCKED off).

Tilslut en målesender til antenneindgangen og indstil den til 94 MHz.

Finindstil målesenderens frekvens til minimum 2. harmonisk forvrængning af signalet, som vist på kurven.

Connect a signal generator to the aerial input and adjust it to 94MHz.

Fine-tune the signal generator to at least second harmonic distortion of the signal as indicated on the curve.

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RIGTIG



CORRECT

FORKERT



INCORRECT

Juster 1L2 så tæt mod 0V DC som muligt.
NB! Spændingen over 1R19 vil hele tiden variere p.g.a. korrektionspulser fra mikrocomputeren.

Efter detektor justering indstil FM DISPLAY
INDIKERING se afsnit 8.

FM LF output

Tilslut en målesender til antenneindgangen og indstil den til mono, 94MHz, 1mV EMF, $\Delta \pm 75$ kHz.

Tilslut LF voltmeter til 1TP14 (1TP15).

Tryk RADIO.

Tryk TURN til displayet viser 87,5.

Tryk GO TO.

Tryk 940.

Juster 1R204 (1R404) til 1V RMS.

(Type 2333 justeres til 700mV RMS).

Kanalseparation

Tilslut en stereokoder (Encoder) til antenneindgangen og indstil den til 94 MHz og umoduleret signal i den ene kanal.

Tilslut LF voltmeter til 1TP14 eller 1TP15 (den umodulerede kanal).

Tryk RADIO.

Tryk TURN til displayet vises 87,5.

Tryk GO TO.

Tryk 940.

Juster 1R51 til minimum signal i den umodulerede kanal.

Tilslut LF voltmeter til den anden kanal, og indstil stereokoderen til umoduleret signal i den samme kanal.

Kontroller, juster til symmetrisk kanalseparation.

FM stop niveau

Tilslut en målesender til antenneindgangen, og indstil den til 94MHz, 20 μ V EMF, $\Delta \pm 75$ kHz.

Tryk RADIO.

Tryk TURN til displayet visere 87,5.

Tryk GO TO.

Tryk 940.

Drej 1R25 mod uret til stop.

Drej 1R25 med uret til LOCKED indikatoren netop tænder.

Adjust 1L2 as close to 0V DC as possible.

NOTE! The voltage across 1R19 will vary continuously because of correction pulses from the micro-computer.

After adjustment of the detector, adjust the FM DISPLAY INDICATION, see section 8.

FM AF output

Connect a signal generator to the aerial input and adjust it to mono, 94MHz, 1mV EMF, $\Delta \pm 75$ kHz.

Connect AF voltmeter to 1TP14 (1TP15).

Press RADIO.

Press TURN until the display shows 87.5.

Press GO TO.

Press 940.

Adjust 1R204 (1R404) to 1V R.M.S.(Adjust type 2333 to 700mV R.M.S.)

Channel separation

Connect a stereo encoder to the aerial input and adjust it to 94MHz and unmodulated signal in one channel.

Connect AF voltmeter to 1TP14 or 1TP15 (the unmodulated channel).

Press RADIO.

Press TURN until the display shows 87.5.

Press GO TO.

Press 940.

Adjust 1R51 to minimum signal in the unmodulated channel.

Connect AF voltmeter to the other channel, and adjust the stereo encoder to unmodulated signal in the same channel.

Check, adjust to symmetrical channel separation.

FM stop level

Connect a signal generator to the aerial input, and adjust it to 94MHz, 20 μ V EMF, $\Delta \pm 75$ kHz.

Press RADIO.

Press TURN until the display shows 87.5.

Press GO TO.

Press 940.

Turn 1R25 anticlockwise to stop.

Turn 1R25 clockwise until the LOCKED indicator just goes on.

AM

For at undgå indvirkning fra ACC'en, anbefales det at kortslutte 1C62.

LW oscillator

Der skal ikke tilføres signal.
Tilslut DC voltmeter til 1TP16.
Tryk RADIO.
Tryk TURN til frekvensdisplayet viser 150.
Juster 1L9 til $2V \pm 0,25V$.
Tryk GO TO.
Tryk 350.
Juster 1C56 til $25V \pm 0,5V$
Gentag evt. proceduren.

MW oscillator

Der skal ikke tilføres signal.
Tilslut DC voltmeter til 1TP16.
Tryk RADIO.
Tryk TURN til frekvensdisplayet viser 150.
Tryk GO TO.
Tryk 520.
Juster 1L8 til $2V \pm 0,25V$.
Tryk GO TO.
Tryk 1610.
Juster 1C55 til $25V \pm 0,5V$.
Gentag evt. proceduren.

AM MF

Tilslut en sweepgenerator til antenneindgangen, og indstil den til centerfrekvens 455 kHz Δ 10 kHz.
Tilslut et oscilloskop til 1IC7 ben 13.
Tryk RADIO.
Tryk TURN til frekvensdisplayet viser 150.
Tryk GO TO.
Tryk 1500.
Kortslut 1R98.
Juster 1L13 og 1L14 til maksimum og symmetrisk MF kurve.
Kortslutningen over 1R98 fjernes.

ANTENNEKREDSE

MW antennekredsene skal justeres først.

MW

Tilslut en målesender til antenneindgangen, og indstil den til 1500 kHz, 30% modulation.
Tilslut oscilloskop eller LF voltmeter til 1IC7 ben 13.
Tryk RADIO.
Tryk TURN til frekvensdisplayet viser 150.
Tryk GO TO.
Tryk 1500.
Juster 1C83 til maksimum output.
Målesenderens frekvens ændres til 575 kHz.
Tryk GO TO.
Tryk 575 kHz.
Juster 1L12 til maksimum output.
Gentag evt. proceduren.

AM

In order to avoid any kind of influence from the AGC, it is recommended that 1C62 be short-circuited.

LW oscillator

Do not input a signal.
Connect DC voltmeter to 1TP16.
Press RADIO.
Press TURN until the frequency display shows 150.
Adjust 1L9 to $2V \pm 0.25V$.
Press GO TO.
Press 350.
Adjust 1C56 to $25V \pm 0.5V$.
Repeat this procedure if necessary.

MW oscillator

Do not input a signal.
Connect DC voltmeter to 1TP16.
Press RADIO.
Press TURN until the frequency display shows 150.
Press GO TO.
Press 520.
Adjust 1L8 to $2V \pm 0.25V$.
Press GO TO.
Press 1610.
Adjust 1C55 to $25V \pm 0.5V$.
Repeat this procedure if necessary.

AM IF

Connect a sweep generator to the aerial input, and adjust it to centre frequency, 455 kHz Δ 10 kHz.
Connect an oscilloscope to 1IC7 pin 13.
Press RADIO.
Press TURN until the frequency display shows 150.
Press GO TO.
Press 1500.
Short-circuit 1R98.
Adjust 1L13 and 1L14 to maximum and symmetrical IF curve.
Remove the short-circuit across 1R98.

AERIAL CIRCUITS

The MW aerial circuits must be adjusted first

MW

Connect a signal generator to the aerial input, and adjust it to 1500 kHz, 30% modulation.
Connect oscilloscope or AF voltmeter to 1IC7 pin 13.
Press RADIO.
Press TURN until the frequency display shows 150.
Press GO TO.
Press 1500.
Adjust 1C83 to maximum output.
Signal generator frequency is changed to 575 kHz.
Press GO TO.
Press 575 kHz.
Adjust 1L12 to maximum output.
Repeat this procedure if necessary.

LW

Målesenderens frekvens ændres til 330 kHz.
 Tryk GO TO.
 Tryk 330.
 Juster 1C81 til maksimum output.
 Målesenderens frekvens ændres til 160 kHz.
 Tryk GO TO.
 Tryk 160.
 Juster 1L11 til maksimum output.
 Gentag evt. proceduren.

AM stop niveau

Kortslutninger over 1C62 fjernes.
 Tilslut en målesender til antenneindgangen, og indstil den til 1MHz 30% modulation, og 30 μ V.
 Tilslut DC voltmeter til kollektor på 1TR5.
 Tryk RADIO.
 Tryk TURN til frekvensdisplayet viser 150.
 Tryk GO TO.
 Tryk 1000.
 Juster 1R73 til 2,5 V.

LW

The signal generator frequency is changed to 330kHz.
 Press GO TO.
 Press 330.
 Adjust 1C81 to maximum output.
 Change the signal generator frequency to 160 kHz.
 Press GO TO.
 Press 160.
 Adjust 1L11 to maximum output.
 Repeat this procedure if necessary.

AM stop level

Remove the short-circuit across 1C62.
 Connect a signal generator to the aerial input, and adjust it to 1MHz 30% modulation, and 30 μ V.
 Connect DC voltmeter to the collector at 1TR5.
 Press RADIO.
 Press TURN until the frequency display shows 150.
 Press GO TO.
 Press 1000.
 Adjust 1R73 to 2.5V.

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TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|---------------------|
| Power output RMS DIN/IEC | 2 x 60 watts/8 ohms |
| Power output music | 2 x 85 watts/8 ohms |
| Harmonic distortion DIN/IEC | <0.02% |
| Power output 20-20,000 Hz IHF | 2 x 50 watts/8 ohms |
| Total harmonic distortion IHF | <0.09% |
| Dynamic headroom | 1.5 db/8 ohms |
| Intermodulation IHF | <0.1% |

Response vs frequency:

| | |
|-------------------------|---------------------------|
| Phono | 20-20,000 Hz \pm 1.5 dB |
| Tape | 20-20,000 Hz \pm 1.5 dB |
| Wideband damping factor | 50 |

Input sensitivity/impedance:

| | |
|------------|-----------------|
| Phono | 0.3 mV/47 kohms |
| Tape - AUX | 30 mV/100 kohms |
| CD player | 20 mV/47 kohms |
| Line | 25 mV/47 kohms |

Signal-to-noise ratio:

| | |
|------------------------------|--------|
| Phono A-weighted, 1 W IHF | >78 dB |
| Tape A-weighted, 1 W IHF | >80 dB |
| Tape A-weighted, 50 W output | >97 dB |
| Channel separation 10,000 Hz | >60 dB |

Output:

| | |
|-----------------------------------|----------------------------|
| Tape | 500 mV/1 kohms |
| Line | 500 mV/1 kohms |
| External power amplifier | 1 V/1 kohms |
| Headphones | Max. 10 V/470 ohms |
| Bass control at 40 Hz | \pm 10 dB |
| Treble control at 12,500 Hz | \pm 8 dB |
| FM range | 87.5 - 108 MHz |
| FM aerial impedance | 75 and 240 ohms |
| Usable sensitivity mono | 14 dBf-1.4 μ V/75 ohms |
| Usable sensitivity stereo | 19 dBf-2.5 μ V/75 ohms |
| 50 dB quieting sensitivity mono | 19 dBf-2.5 μ V/75 ohms |
| 50 dB quieting sensitivity stereo | 40 dBf-28 μ V/75 ohms |
| Signal-to-noise ratio 65 dBf mono | 75 dB |
| 65 dBf stereo | 70 dB |
| Frequency response | 20-15,000 Hz \pm 1 db |
| Distortion at 65 dBf mono | 0.16% |
| Distortion at 65 dBf stereo | 0.2% |
| Intermodulation mono | 0.1% |
| Intermodulation stereo | 0.1% |
| Capture ratio | 1.7 dB |
| Adjacent channel selectivity | 10 dB |
| Alternate channel selectivity | 70 dB |
| Spurious response | 100 dB |
| Image response ratio | 80 dB |
| IF response ratio | 120 dB |
| AM suppression | 57 dB |
| Stereo channel separation | 45 dB |
| Subcarrier product rejection | 70 dB |

AM tuner section:

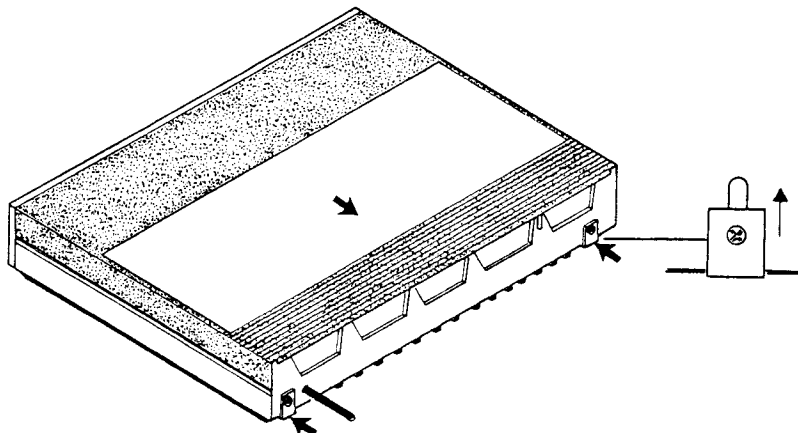
| | |
|--------------------------------|-------------------------|
| LW range | 150-350 kHz |
| MW range | 520-1610 kHz |
| LW sensitivity 20 dB S/N ratio | 80 μ V |
| MW sensitivity 20 dB S/N ratio | 60 μ V |
| Power supply | 220 (110-130-240) volts |
| Power frequency | 50-60 Hz |
| Power consumption | Max. 225 watts |
| Dimensions W x H x D | 42 x 7.5 x 32.5 cm |
| Weight | 8.5 kg |

Subject to change without notice

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ADSKILLELSE Kabinet

DISMANTLING Cabinet



De to viste skruer i bagkanten løsnes og løftes op.

Loosen and lift out the two screws in the rear edge as shown.

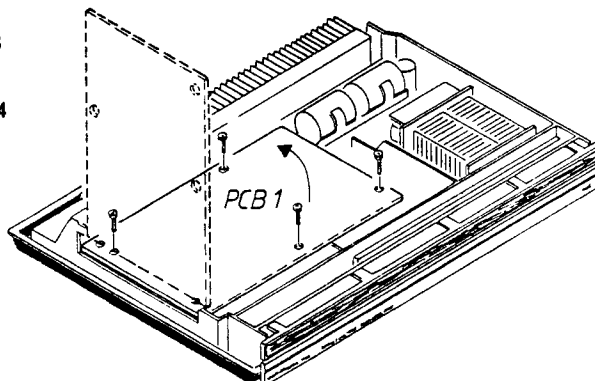
Kabinettet presses ca. 1 cm bagud og løftes op.

Press the cabinet approx. 1 cm backwards and lift it out.

PCB 1

PCB 1

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De fire skruer fjernes.

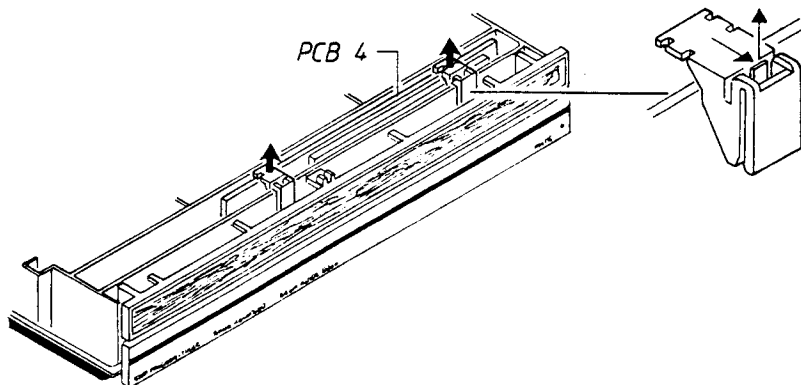
Remove the four screws.

PCB 1 stilles i service position som vist.

Place PCB 1 in service position as shown.

PCB 4

PCB 4



De to viste plastholder løsnes og løftes op.

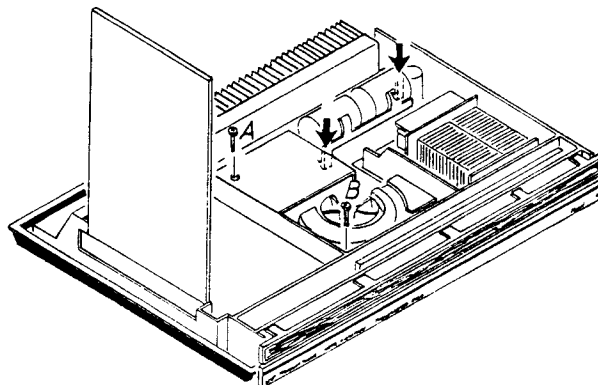
Loosen and lift out the two plastic holders as shown.

PCB 4 trækkes op.

Pull out PCB 4.

Hus og blæser.

Housing and fan



Fjern skruen A

Remove the screw A.

Frigør de to plastappe (ved pilene).

Disengage the two plastic pins (at the arrows).

Huset afmonteres.

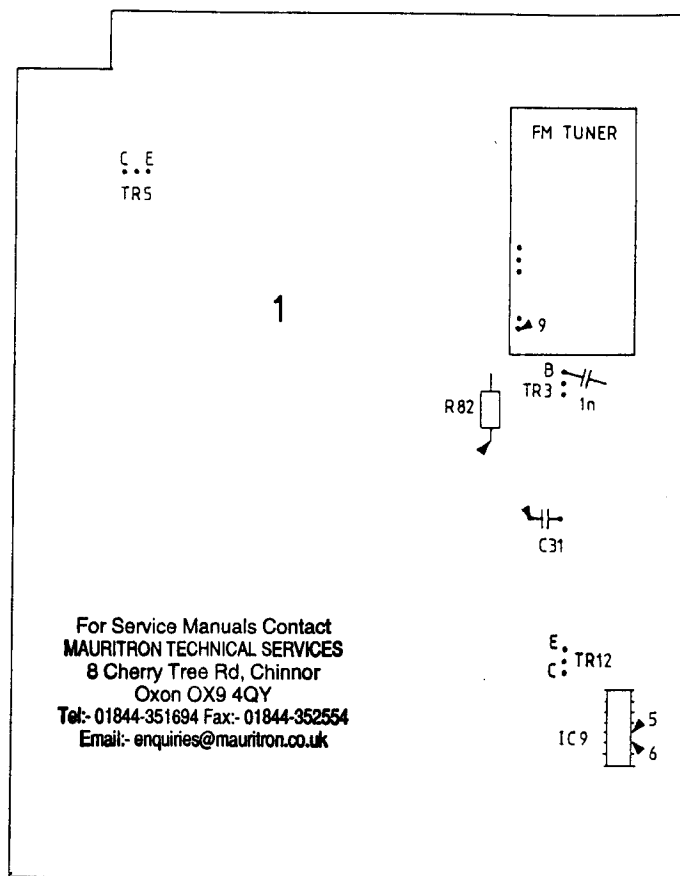
Dismantle the housing.

Skruen B fjernes.

Remove the screw B.

Blæseren løftes op.

Lift out the fan.



Reparation i tuningssystemet

Ved reparation i tuningssystemet kan det være vanskeligt at lokalisere en fejl.

Følgende servicetips kan benyttes til at »åbne sløjfen« mellem mikrocomputeren og resten af tuningssystemet.

Alle betjeninger gøres på Master Control Panelet.

1. Neddeler af oscillatorfrekvens:

Kortslut kollektor og emitter på 1TR5. Ben 9 på tunerens suges fri for tin, så der ikke er forbindelse til loddeøen.

Tilslut en målesender til basis på 1TR3 via en 1nF kondensator.

Indstil målesenderen til FM, og en frekvens på f.eks. 100,7 MHz, output større end 15mV.

Tryk RADIO.

Tryk TURN til frekvensdisplayet viser 87,5.

Tryk >>.

MCP'ens frekvensdisplay skal nu vise en frekvens, der er 10,7MHz under målesenderens frekvens, i dette tilfælde 90MHz.

Frekvensdeleren deler med 400.

Kortslutningen fjernes.

Repairs in the tuning system.

When carrying out tuning system repairs, it may be difficult to localize a fault. The following service tips may be used for "opening the loop" between the microcomputer and the rest of the tuning system.

All operations are carried out from the Master Control Panel.

1. Oscillator frequency divider:

Short-circuit collector and emitter at 1TR5. Remove all solder from tuner pin 9 so that there is no connection to the soldering point.

Connect a signal generator to the base of 1TR3 via a 1nF capacitor.

Set the signal generator to FM and a frequency of, for example, 100.7MHz, the output being greater than 15mV.

Press RADIO.

Press TURN until the frequency display shows 87.5.

Press >>.

The MCP frequency display will now show a frequency which is 10.7MHz less than the frequency of the signal generator, i.e., 90MHz in this example.

The frequency divider divides by 400.

Remove the short-circuit.

2. Korrektion af afstemningsspænding:

Ben 9 på tunerens suges fri for tin, så der ikke er forbindelse til loddeøen.

Tilslut en målesender til basis på 1TR3 via en 1nF kondensator.

Indstil målesenderen til FM, 100,7MHz, output større end 15mV.

Tilslut et oscilloskop til 1IC9 ben 5 og ben 6.

Tilslut et DC voltmeter til kollektoren på 1TR12.

Tryk RADIO.

Tryk TURN til frekvensdisplayet viser 87,5.

Tryk GO TO.

Tryk 900.

Når frekvensdisplayet slukkes, tryk GO TO.

Målesenderens frekvens reguleres langsomt op.

Dette opfattes som oscillator drift mod højere frekvens af mikrocomputeren, som så skal sende positive korrektionspulser til 1IC9 ben 5.

Reguleres der ned for målesenderens frekvens, i forhold til 100,7 MHz, skal mikrocomputeren sende positive korrektionspulser til 1IC9 ben 6.

Opregulering af frekvensen skal give faldende spænding på DC voltmeteret.

Nedregulering af frekvensen skal give stigende spænding på DC voltmeteret.

3. FM oscillator og HF:

1R82 løftes (den side af 1R82 som vender mod 1TR12 loddes fra).

En variabel DC strømforsyning tilsluttes med + til den fraloddede side af 1R82, og indstilles til 0V.

Tilslut en målsender til FM antenneindgangen.

Indstil senderen til 88MHz.

Tryk RADIO.

Tryk TURN til frekvensdisplayet viser 87,5.

Tryk GO TO.

Tryk 880.

Når frekvensdisplayet slukker, tryk GO TO.

DC strømforsyningen skrues langsomt op, og når modtageren »fanger« 88MHz skal spændingen være ca. 4V.

Målesenderens frekvens ændres til 107 MHz.

Strømforsyningen skrues op, og når modtageren »fanger« frekvensen skal spændingen være ca. 19V.

4. AM oscillator og HF:

1R82 løftes (den side af 1R82 som vender mod 1TR12 loddes fra).

En variabel DC strømforsyning tilsluttes med + til den fraloddede side af 1R82, og indstilles til 0V.

Tilslut en målesender til AM antenneindgangen.

Indstil senderen til 150kHz.

Tryk RADIO.

Tryk TURN til frekvensdisplayet viser 150.

DC strømforsyningen skrues langsomt op, og når modtageren »fanger« 150 kHz skal spændingen være ca. 2V.

Målesenderens frekvens ændres til 350 kHz.

Strømforsyningen skrues op, og når modtageren »fanger« frekvensen skal spændingen være ca. 25V.

2. Correction of tuning voltage:

Remove all solder from tuner pin 9 so that there is no connection to the soldering point.

Connect a signal generator to the base of 1TR3 via a 1nF capacitor.

Set the signal generator to FM, 100.7MHz, output greater than 15mV.

Connect an oscilloscope to 1IC9 pins 5 and 6.

Connect a DC voltmeter to the collector of 1TR12.

Press RADIO.

Press TURN until the frequency display shows 87.5.

Press GO TO.

Press 900.

When the frequency display goes off, press GO TO.

Increase the signal generator frequency slowly.

The microcomputer understands this as oscillator drift towards higher frequency, and it therefore has to send positive correction pulses to 1IC9 pin 5.

If the signal generator frequency is decreased compared to 100.7MHz, the microcomputer has to send positive correction pulses to 1IC9 pin 6.

A frequency increase should result in decreasing voltage on the DC voltmeter.

A frequency decrease should result in increasing voltage on the DC voltmeter.

3. FM oscillator and RF:

Lift 1R82 (desolder the side of 1R82 facing 1TR12).

Connect a variable DC power supply with + at the desoldered side of 1R82, and adjust to 0V.

Connect a signal generator to the FM aerial input.

Set the generator to 88MHz.

Press RADIO.

Press TURN until the frequency display shows 87.5.

Press GO TO.

Press 880.

When the frequency display goes off, press GO TO.

Turn up the DC power supply slowly, and when the receiver "catches" 88MHz the voltage should be approx. 4V.

The signal generator frequency is changed to 107MHz.

Turn up the power supply, and when the receiver "catches" the frequency the voltage should be approx. 19V.

4. AM oscillator and RF:

Lift 1R82 (desolder the side of 1R82 facing 1TR12).

Connect a variable DC power supply with + at the desoldered side of 1R82, and adjust to 0V.

Connect a signal generator to the AM aerial input.

Set the generator to 150kHz.

Press RADIO.

Press TURN until the frequency display shows 150.

Turn up the DC power supply slowly, and when the receiver "catches" 150kHz the voltage should be approx. 2V.

The signal generator frequency is changed to 350kHz.

Turn up the power supply, and when the receiver "catches" the frequency the voltage should be approx. 25V.

Samme procedure kan benyttes i mellembølgeområdet:

520 kHz spænding ca. 2V.

1610 kHz spænding ca. 25V.

Testpunkter i Master Control Panel (MCP)

MCP'en har 4 testpunkter, som kan anvendes ved service:

»CONTINUE« 12TP1

Hvis 12TP1 kortsluttes kortvarigt til 4,75V vil senderen sende et signal med et puls/pause forhold på 200µs/3,1ms.

Senderen slukkes ved at trykke på en knap.

»DISPLAY ON« 12TP2

»DISPLAY ON« anvendes hvis man ønsker at holde på display billedet.

Tryk på en knap for det ønskede display billede. Når displayet er tændt, kortsluttes 12TP2 til stel og MCP'en vendes væk fra Beomasteren, så MCP'en ikke modtager »stopordre« fra Beomasteren.

Displayet fastholdes til der trykkes på en knap.

»SUPPLY CONSTANT ON« 12TP3

Når 12TP3 kortsluttes til stel, tændes netdelen.

Netdelen slukker igen når kortslutningen fjernes.

»BATTERY SENSOR« 12TP4

Når 12TP4 kortsluttes, afprøves battery sensor funktionen.

Tryk på en knap. Når displayet er tændt, kortsluttes 12TP4 til stel, og displayet skal blinke.

The same procedure may be followed in the medium wave range:

520 kHz voltage approx. 2V.

1610 kHz voltage approx. 25V.

Test points in the Master Control Panel (MCP)

The MCP has four test points which may be used when servicing:

“CONTINUE” 12TP1

If 12TP1 is short-circuited briefly to 4.75V, the transmitter will transmit a signal with a pulse/pause ratio of 200µs/3.1ms.

The transmitter is switched off by pressing a button.

“DISPLAY ON” 12TP2

“DISPLAY ON” is used when it is desirable to hold the display picture.

Press a button for the desired display picture.

When the display is on, short-circuit 12TP2 to chassis, and turn the MCP away from the Beomaster so that the MCP will not receive a “stop order” from the Beomaster.

The display is held until a button is pressed.

“SUPPLY CONSTANT ON” 12TP3

When 12TP3 is short-circuited to chassis, the power-supply unit is switched on. The power-supply unit switches off again when the short-circuit is removed.

“BATTERY SENSOR” 12TP4

When 12TP4 is short-circuited, the battery sensor function is tested.

Press a button. When the display is on, short-circuit 12TP4 to chassis, and the display should flash.

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TESTFUNKTIONER

Beomasteren kan bringes i forskellige »test-modes«, ved at kortslutte 4TP1 til stel i få sekunder.

Der er mulighed for:

- Kontrol af lysdioder i forpladen
- Test af IRsender
- Test af mikroprocessor
- Test af RAM
- Test af displayindikering på AM og FM.

Resultatet af hver test indikeres i displayet, i form af et tal.

Hver test afsluttes med, at apparatet sættes i stand by.

TEST FUNCTIONS

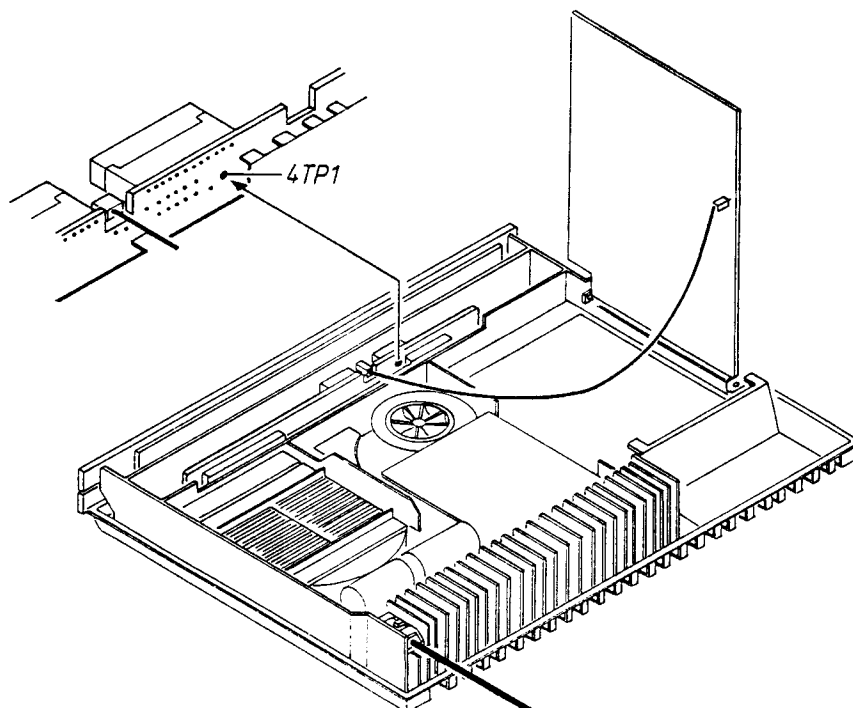
The Beomaster may be brought into different "test modes" by shortcircuiting 4TP1 with the chassis for a few seconds.

Available modes:

- Checking the LED's in the front panel
- Testing the IR transmitter
- Testing the microprocessor
- Testing the RAM
- Testing the display indication for AM and FM.

The result of each test is given on the display in the form of a number.

Each test is concluded by the unit being put on stand by.



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Lysdiodekontrol:

Kortslut kortvarigt 4TP1.
 (til stel)

De første 4 sekunder efter kortslutning af 4TP1 vil samtlige lysdioder på frontpladen lyse.

Hvis 4TP1 kortsluttes 2 gange til stel efter hinanden, bringes apparatet straks i »testmode«, og dette indikeres ved, at lysdioderne på forpladen blinker.

Checking LED's:

Short-circuit 4TP1 briefly.
 (with chassis).

For the first 4 seconds after the short-circuit of 4TP1, all LED's on the front panel will be on.

If 4TP1 is short-circuited with chassis twice in a row, the unit will immediately be brought into "test mode", indicated by the flashing of the LED's on the front panel.

IRtest:

Tast RADIO

Kortslut 4TP1.
 (2 gange kortvarigt)

Tast STEP på forpladen eller RADIO på MCP'en

Display: 1
 IR i Beomaster sender

IR test:

Press RADIO

Short-circuit 4TP1
 (twice briefly)

Press STEP on front plate or RADIO on the MCP

Display: 1
 IR in Beomaster transmitter

Mikroprocessortest:

Tast RADIO

Kortslut (2 gange kortvarigt) 4TP1.

Tast TAPE

Display: 2 Processor i orden 3 Processor er fejlbehæftet

Microprocessor test:

Press RADIO

Short-circuit (twice briefly) 4TP1

Press TAPE

Display: 2 Processor OK 3 Error in processor

Hvis yderligere kontrol af mikroprocessor er nødvendig, kan følgende gøres:

4P12, 4P13, 4P16, og 4P25 afmonteres, og PCB 4 tages ud af Beomasteren.

Tilslut en strømforsyning med +5V til ben 12 på 4P12, og stel på afskærmningslåget.

PCB 4 skal nu vise følgende spændinger:

| | DC | AC |
|-----------|-----------|-----------------|
| 4IC1 | | |
| Ben 1-15 | ca. 5V | |
| Ben 16 | 0V/5V | |
| Ben 17 | ca. 5V | |
| Ben 18-19 | | 8,8MHz 1-3Vss |
| Ben 20 | 0V (stel) | |
| Ben 21-30 | ca. 5V | |
| Ben 31 | 0V (stel) | |
| Ben 40 | ca. 5V | |
| 4IC6 | | |
| Ben 4 | | 455KHz ca. 3Vss |

RAM-test:

Advarsel: RAM nulstilles.

Skal udføres ved udskiftning af PCB04, 04IC2, 04D2, 04R4 eller 3V batteri.

Tast RADIO

Kortslut (2 gange kortvarigt) 4TP1

Tast RESET

Display: 10 RAM-test kører ca. 30 sec.

Display: 11 RAM i orden og nulstillet 12 Der er fejl i RAM

If further microprocessor checks are necessary, the following procedure may be followed:

Dismount 4P12, 4P13, 4P16 and 4P25, and remove PCB 4 from the Beomaster.

Connect a +5V power supply to pin 12 at 4P12 and chassis on the shield lid.

PCB 4 should now display the following voltages:

| | DC | AC |
|------------|--------------|---------------------|
| 4IC1 | | |
| Pins 1-15 | Approx. 5V | |
| Pin 16 | 0V/5V | |
| Pin 17 | Approx. 5V | |
| Pin 18-19 | | 8.8MHz 1-3Vss |
| Pin 20 | 0V (chassis) | |
| Pins 21-30 | Approx. 5V | |
| Pin 31 | 0V (chassis) | |
| Pin 40 | Approx. 5V | |
| 4IC6 | | |
| Pin 4 | | 455KHz approx. 3Vss |

RAM test:

Warning: RAM reset

Should be done when replacing PCB04, 04IC2, 04D2, 04R4 or 3V battery.

Press RADIO

Short-circuit (twice briefly) 4TP1

Press RESET

Display: 10 RAM test runs for approx. 30 sec.

Display: 11 RAM OK and reset 12 Error in RAM

Efter RAM-test skal test af AM- og FM-displayindikering udføres som afslutning.

After the RAM test, testing should be completed with a test of AM and FM display indication.

FM-displayindikering:

Skal udføres ved udskiftning af båndpasfilterne 1BP1, 1BP2 og 1BP3 eller PCB01.

Tast

Tast

Tast
(til MCP indikerer 87,5)

Indstil på en station hvor du kender den nøjagtige frekvens eller

Kontrollere at LOCKED lyser

Kortslut (2 gange kortvarigt) 4TP1

Tast

Indtast den nøjagtige frekvens (eks. 98,5MHz)

Tast
(inden 3 sec.)

Display: 4 Indstillet korrekt 5 Frekvens kan ikke indlæses.

FM display indication:

This test should be carried out in connection with replacement of the band-pass filters 1BP1, 1BP2 and 1BP3, or PCB01.

Press

Press

Press
(until MCP indicates 87.5)

Tune in to a station for which you know the exact frequency or

Check that LOCKED is lit

Short-circuit (twice briefly) 4TP1

Press

Enter the exact frequency (e.g., 98.5MHz)

Press
(within 3 sec.)

Display: 4 Set correctly 5 Frequency input not possible

AM-displayindikering:

Skal gennemføres, hvis det keramiske filter 1BP4 eller PCB01 udskiftes.

Tast

Tast

Tast
(til MCP indikerer 150)

Kortslut (2 gange kortvarigt) 4TP1

Tast

*Indtast frekvens 455 kHz.

Tast
(inden 3 sec.)

AM display indication:

This test should be carried out in connection with replacement of the band-pass filter 1BP4 or PCB01.

Press

Press

Press
(until MCP indicates 150)

Short-circuit (twice briefly) 4TP1

Press

*Enter frequency 455 kHz

Press
(within 3 sec.)

Display: 4 Indstillet korrekt
5 Frekvens kan ikke indlæses.

Display: 4 Set correctly
5 Frequency input not possible

* Ved udskiftning af 1BP4 indtastes den frekvens der står på det nye filter.

* When replacing 1BP4, enter the frequency stated on the new ceramic filter.

Omstilling mellem HF varianter

På diagram A i nederste højre hjørne er vist forskellige koblingsmåder mellem HF varianter. De forskellige koblingsmåder gør, at mikrocomputeren softwaremæssigt kan »se« forskel på varianterne.

Switching between RF variants

Different ways of switching between RF variants are showed in the lower right corner of diagram A. As to the software the different ways of switching enables the microcomputer to "see" the difference between the variants.

Forbindelse A-A: USA og Canada (type 2333).
Søgning på AM i 10 kHz trin, ingen langbølge.

Connection A-A: USA and Canada (type 2333).
Searching on AM in steps of 10 kHz, no long wave.

Forbindelse B-B: Japan (type 2334).
Søgning på AM i 9 kHz trin, ingen langbølge.
FM frekvensområde 76-90 MHz
(kræver speciel FM tuner, bestilingsnr. 8050102)

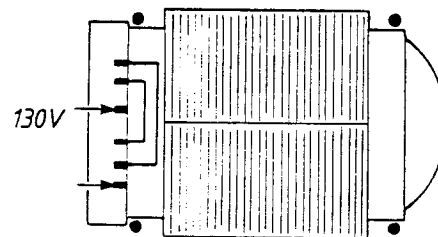
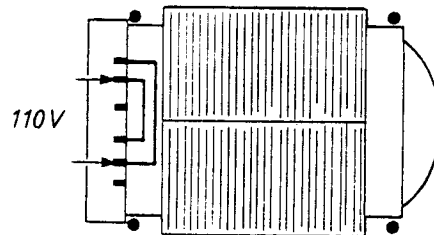
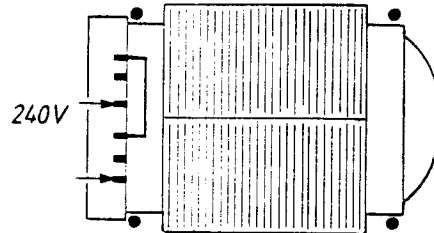
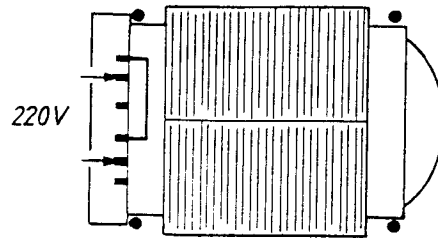
Connection B-B: Japan (type 2334).
Searching on AM in steps of 9 kHz, no long wave.
FM frequency range 76-90 MHz
(demands a special FM tuner, part no. 8050102).

Forbindelse C-C: Australien (type 2335).
Søgning på AM i 9 kHz trin, ingen langbølge.

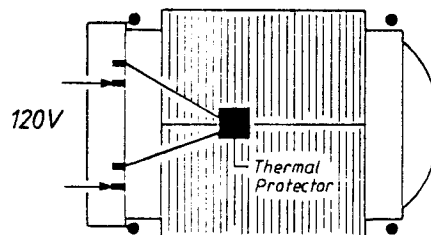
Connection C-C: Australia (type 2335).
Searching on AM in steps of 9 kHz, no long wave.

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk

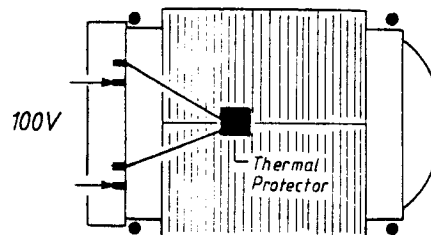
Tilslutning af nettransformer/ Connection of Mains Transformer



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8013363 for type 2333



8013364 for type 2334

ISOLATIONSTEST

Ethvert apparat **skal** isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstest for Beomaster 5500

Isolationstesten udføres på følgende måde:
De to stikben på netstikket kortslyttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes stelbenet i hovedtelefonstikdåsen.

OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at **begge** terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren indtil en spænding på 1,5 - 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må **ikke** på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Each set **must** be insulation tested after dismantling. The test is to be performed when the set has been re-assembled and is ready for delivery to the customer.

Insulation test for Beomaster 5500

Make the insulation test as follows: Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the chassis pin of the headphone socket.

N.B.!

To avoid ruining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Hold it there for 1 second, then turn slowly the voltage down again.


At no point during the testing procedure any flash-overs are permissible.


SLUTAFPRØVNING MCP

Denne afprøvning sikrer at hovedparten af MCPens elektriske funktioner er i orden.

FINAL TESTING

This test ensures that most of the MCP's electrical functions are in order.

| TAST/BETJENING | DISPLAY (Kun test displays er nævnt) |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Tilslut Beomaster 5500 til lysnet | St.By diode på Beomaster skal lyse |
| Placer MCPen foran Beomasteren, så de kan kommunikere sammen. | |
| Tryk [RADIO] | RADIO og SET CLOCK skal lyse |
| Tryk [STATUS] | Volumeskala og frekvensudlæsning i cifferdisplay skal vises. AM eller FM skal lyse. |
| Drej min.  max. | Ved max. volume skal alle dioder i volumeskala lyse. |
| Tryk [GO TO] | MANUAL skal lyse |
| Tryk [TAPE 2] | TAPE 2 skal lyse |
| Tryk [CONTROL] | CONTROL skal lyse |
| Afbryd Beomaster 5500 fra lysnettet | |
| Tryk [STATUS] | NO CONTACT skal lyse |

| KEY/OPERATION | DISPLAY (Test displays mentioned only) |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Connect Beomaster 5500 to mains | St.BY. LED on the Beomaster should be on |
| Place the MCP in front of the Beomaster to allow them to communicate | |
| Press [RADIO] | RADIO and SET CLOCK should be on |
| Press [STATUS] | Volume dial and frequency read-out in digit display should be shown. AM or FM should be on. |
| Turn min.  max. | When at maximum volume, all LED's in the volume dial should be on |
| Press [GO TO] | MANUAL should be on |
| Press [TAPE 2] | TAPE 2 should be on |
| Press [CONTROL] | CONTROL should be on |
| Disconnect the Beomaster 5500 from mains | |
| Press [STATUS] | NO CONTACT should be on |

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