

Bang & Olufsen

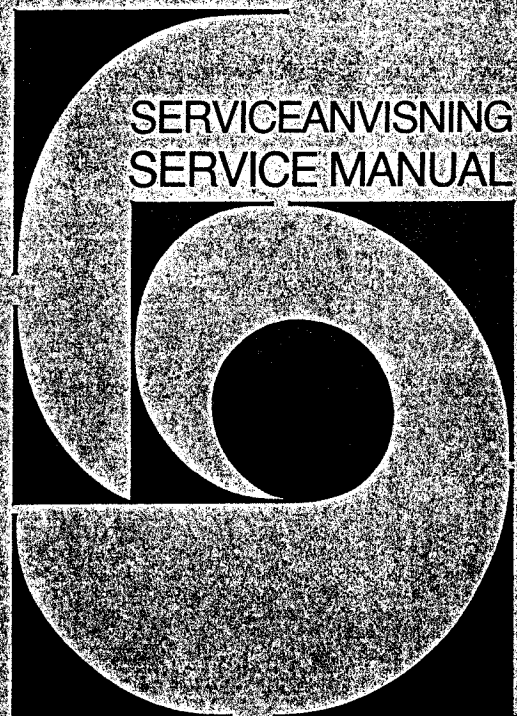


Beocenter 2200

Type 2421/22/25

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351894 Fax: 01844-352554
Email: enquiries@mauritron.co.uk

2458



Indhold

Diagrammer
Halvlederoversigt
Elektrisk stykliste
Mekaniisk stykliste
Justeringer radiodel
Justeringer båndoptager
Justeringer pladespiller
Tekniske specifikationer
Adskillelse
Servicetips
Isolationstest

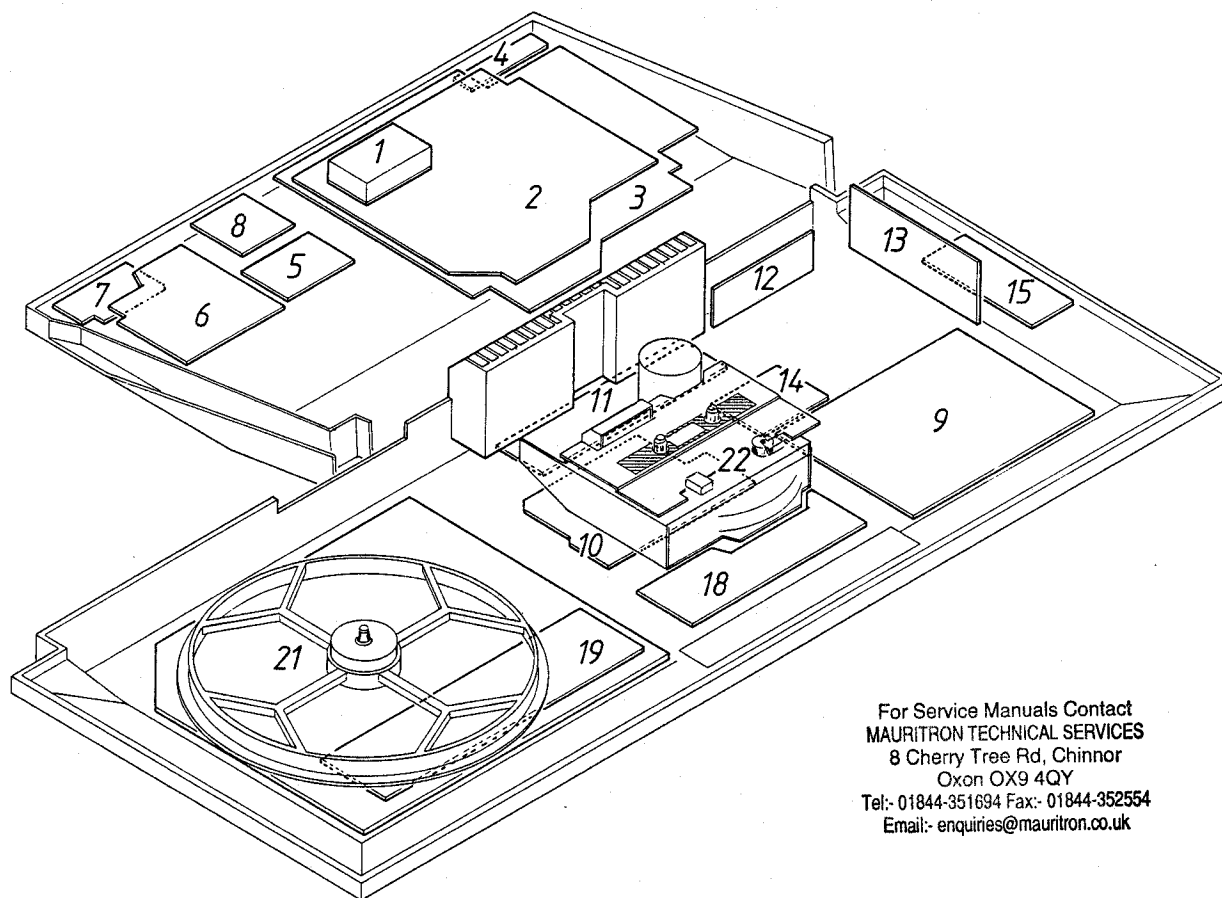
Contents

Circuit diagrams
Semi-conductors
List of electrical parts
List of mechanical parts
Adjustments radio
Adjustments tape recorder
Adjustments record player
Technical specifications
Dismantling
Service tips
Insulation test

1
2
3
4
5
6
7
8
9
10
11

Modules

- 1 FM Front End/Tuner diagr. A
- 2 AM-FM-IF-Section and MPX Decoder diagr. A
- 3 Control Circuit diagr. A, C, D
- 4 FM Keyboard diagr. C
- 5 FM Preset diagr. A
- 6 Secondary Controls diagr. A, B, D
- 7 Phono Control Keyboard diagr. E
- 8 Volume Control diagr. B
- 9 Play-Back Amplifier and Dolby Processor diagr. D
- 10 Rec. Amplifier and Bias Oscillator diagr. D
- 11 Power Amplifier diagr. B
- 12 Loudspeaker Sockets diagr. B
- 13 Power Supply 2 x 26 V diagr. B
- 14 Power Supply 12 V diagr. B
- 15 Fuses Board diagr. B
- 18 Microphone Amplifier Etc. diagr. B
- 19 Phono Control Circuit and RIAA Amplifier diagr. E
- 21 Record Player/Floating Chassis diagr. E
- 22 Tape Deck/CC diagr. C, D



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

DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde hvor typenummeret er entydigt for komponentes 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*.

Koordinatsystem

De største printplader er forsynet med et koordinatsystem. Komponenterne på disse printplader er på diagrammet forsynet med en koordinatbetegnelse, som fortæller i hvilket felt på printpladen de er placeret (mindre skrifttype end positionsnummeret - f.eks. B3).

Styrekredsløb

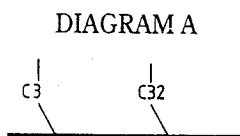
I visse styrekredsløb er den aktive tilstand angivet med en bogstavsbetegnelse (Cr = High med CrO₂ bånd). Hvis betegnelsen er forsynet med negationstegn er den aktive tilstand LOW ($\bar{C}r$ = LOW med CrO₂ bånd).

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

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

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*.

System of Co-ordinates

The largest PC-boards have been provided with a co-ordinate system. The components on these PC-boards are provided with a grid reference on the diagram indicating in what grid they are positioned on the PC-board (smaller typing than position numbers - e.g. B3).

Control Circuit

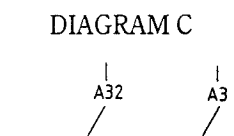
In certain control circuits the active mode has been indicated by means of a letter symbol (Cr = HIGH with CrO₂ tapes). If the symbol has a negation superscript bar the active mode is LOW ($\bar{C}r$ = LOW with CrO₂ tapes).

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 CONNECTION
ON ONE DIAGRAM PAGE

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.

CONNECTION TO ANOTHER
DIAGRAM PAGE

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

Målebetingelser

Alle DC spændinger er målt uden signal, i forhold til stel med voltmeter (indre modstand 10 MΩ).

DC spændinger er opgivet i volt (V). Eks. 0,7 V.

AC spændinger er målt i forhold til stel med oscilloskop eller voltmeter, med en indgangsmodstand på 1 MΩ. AC spændinger er angivet i millivolt (mV). Eks. 725 mV.

Signalveje er vist for henholdsvis AM (stilling MW), FM og for LF høje kanal. Båndplagerens signalvej for optage position er vist i højre kanal, og gengive position er vist i venstre kanal.

Mekaniske omskiftere er vist i neutral stilling.

Symbol for sikkerhedskomponenter



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

Measuring Conditions

All DC voltages are measured without signal relative to ground with voltmeter (inner resistance 10 MΩ).

DC voltages are stated in volts (V), ex.: 0.7 V.

AC voltages are measured relative to ground with oscilloscope or voltmeter with an input resistance of 1 MΩ. AC voltages are stated in millivolt (mV), ex.: 725 mV.

Signal paths are shown for AM (position MW), FM and for AF right channel. The tape recorder signal path in recording position is shown in right channel, and replay position is shown in left channel.

Mechanical switches are shown in neutral position.

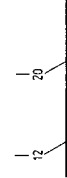
Symbol for Safety Components

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.

Connexions des fils

Les connexions de fils sur le schéma sont assemblées en «faisceaux». Chaque fil est muni d'un code qui indique sa destination.

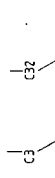
CONNEXION INTERNE SUR UN COTE DU SCHEMA



Connexions internes sur une page de schéma doit être indiquées par un numéro. L'angle du fil indique la direction dans laquelle l'autre bout du fil doit être trouvé.

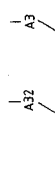
CONNEXION VERS UN AUTRE COTE DU SCHEMA

DIAGRAM A



Connexions vers une autre page de schéma doit être indiquées par un numéro, et par lettre du schéma indiquant la destination de la connexion.

DIAGRAM C



Leitungsverbindungen

Die Leitungsverbindungen sind auf dem Schaltbild in »Bündeln« zusammengefaßt. Die einzelnen Leitungen sind mit Code-Bezeichnungen versehen, die angeben, wohin die Leitungen führen.

INTERNE VERBINDUNGEN AUF EINER SCHALTBILDSSEITE

Interne Verbindungen auf einer Schaltbildseite werden mit einem Nummer angegeben. Die Biegung der Leitung zeigt in welcher Richtung das andere Ende der Leitung sich befindet.

VERBINDUNGEN AN EINE ANDERE SCHALTBILDSSEITE

Die Verbindungen an eine andere Schaltbildseite werden mit einem Nummer, sowie Indikation des Schaltbildes an den die Verbindung geht, angegeben.

NOTICE EXPLICATIVE DES SCHEMAS

Sur les schémas, les numéros de types sont indiqués pour les transistors et les circuits imprimés dans les cas où le numéro de type est univoque pour la disposition du composant dans un circuit - par exemple TR20/BC557B.

Si le numéro de position est suivi par un astérisque, il faut utiliser le numéro de la pièce de rechange, étant donné qu'il s'agit d'un composant spécialement sélectionné - par exemple TR102*.

Système de coordonnées

Les plus grands circuits imprimés sont munis d'un système de coordonnées. Les composants de ces circuits imprimés portent un numéro de coordonnée sur le schéma qui indiquent dans quelle coordonnées ils sont placés sur le circuit imprimé (en caractères plus petit que ceux indiquent le numéro de position - par exemple B3).

Circuits de commande

Dans certains circuits de commande, l'état actif est indiqué par une représentation en lettres (Cr = Haut avec une bande CrO2). Si cette représentation en lettres est munie d'un trait de négation, cela signifie que l'état actif est bas (Cr = Bas avec une bande CrO2).

Conditions de mesures

Toutes les tensions continues (DC) sont mesurées par rapport à la masse et à l'aide d'un voltmètre (résistance intérieure 10 MΩ).

Les tensions DC sont indiquées en volt (V) par exemple 0,7 V.

Les oscillogrammes et les tensions alternatives (AC) sont mesurées par rapport à la masse à l'aide d'un oscilloscope ou un voltmètre ayant une impédance d'entrée de 1 MΩ. Les tensions AC sont indiquées en millivolt (mV) exemple 725 mV.

Les trajectoires d'un signal sont indiquées pour l'AM (position MW), FM, ainsi que pour le BF canal droit. La trajectoire du signal du magnétophone en position enregistrément est indiquée dans le canal droit, et la position lecture est indiquée dans le canal gauche.

Symbol des composants de sécurité



En remplaçant un composant portant ce symbole, il faut utiliser les composants de même no. de référence. Le nouveau composant doit être de monté de la même manière que celui qu'il remplace.

Messbedingungen

Alle DC Spannungen sind ohne Signal, im Verhältnis zur Masse mit Voltmeter (innerer Widerstand 10 MΩ) gemessen.

DC Spannungen sind in Volt (V) angegeben, z.B.: 0,7 mV.

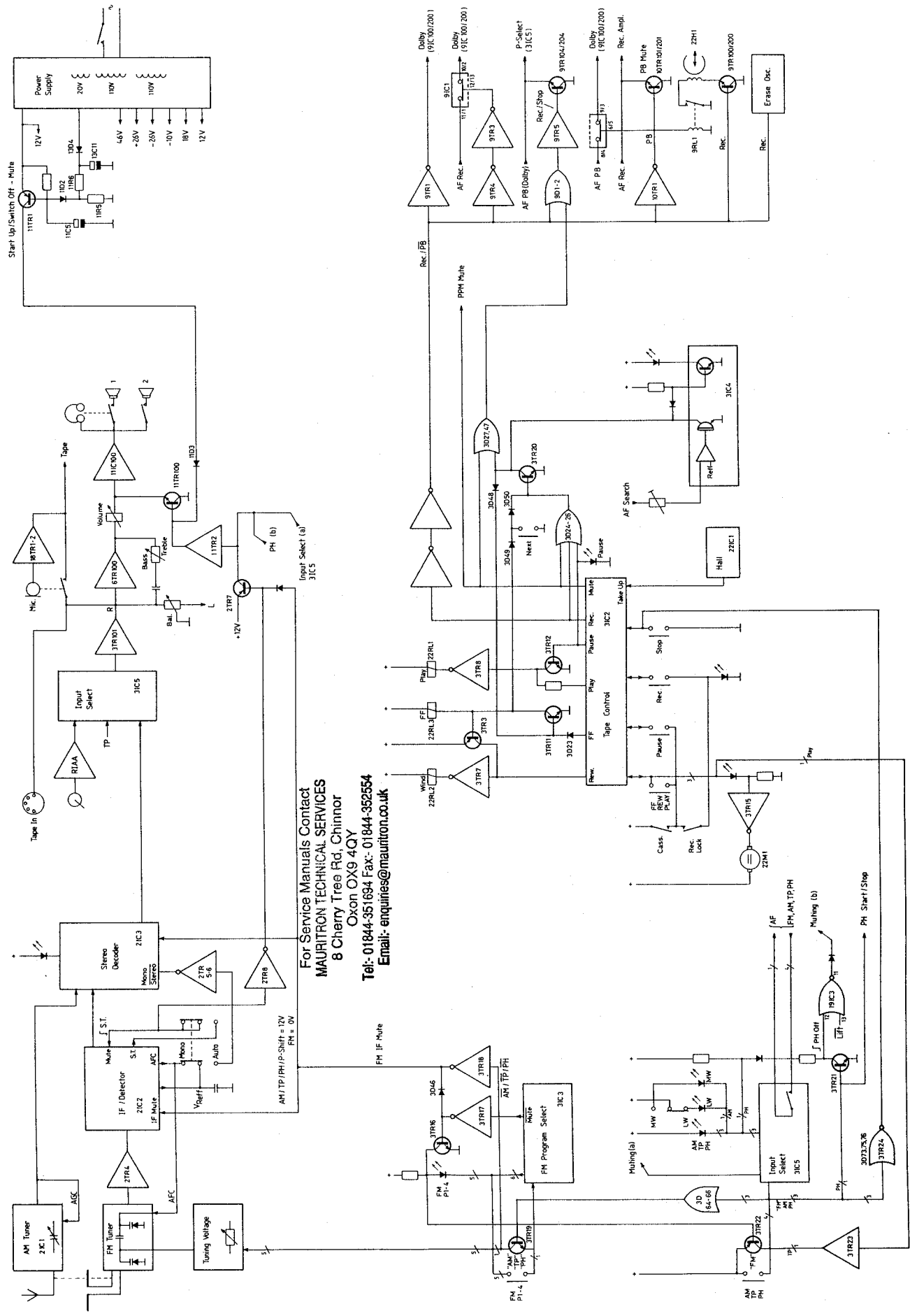
AC Spannungen sind im Verhältnis zur Masse mit Oszilloskop oder Voltmeter mit einem Eingangswiderstand von 1 MΩ gemessen. AC Spannungen sind in Millivolt (mV) angeben, z.B.: 725 mV.

Signalwege für bzw. AM (Stellung MW), FM, Fernbedienung und für NF rechten Kanal sind gezeigt. Der Signalweg des Tonbandgeräts in Stellung Aufnahme ist im rechten Kanal gezeigt und Stellung Wiedergabe ist im linken Kanal gezeigt.

Mechanische Umschalter sind in neutraler Stellung gezeigt.

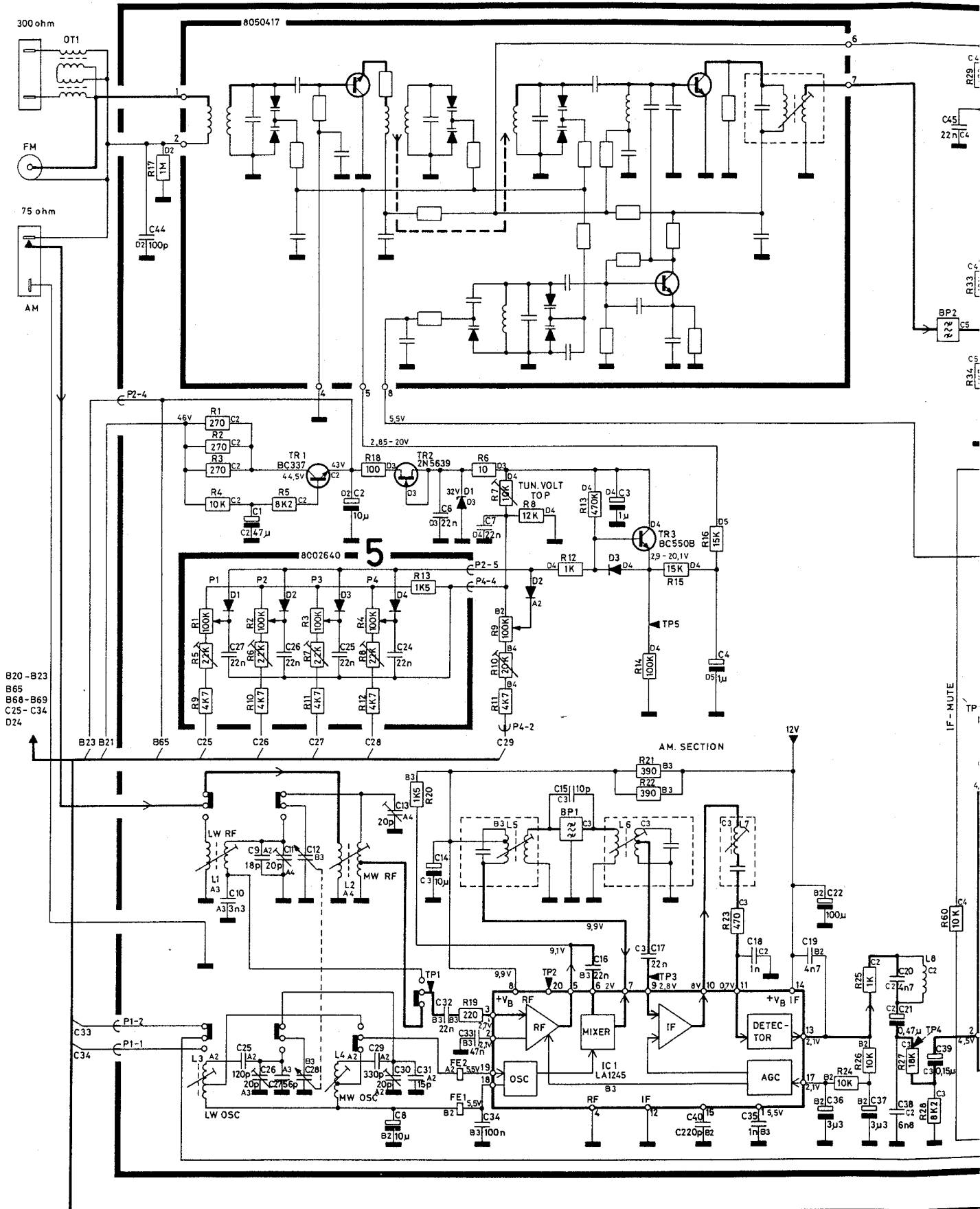
Symbol für Sicherheitskomponente

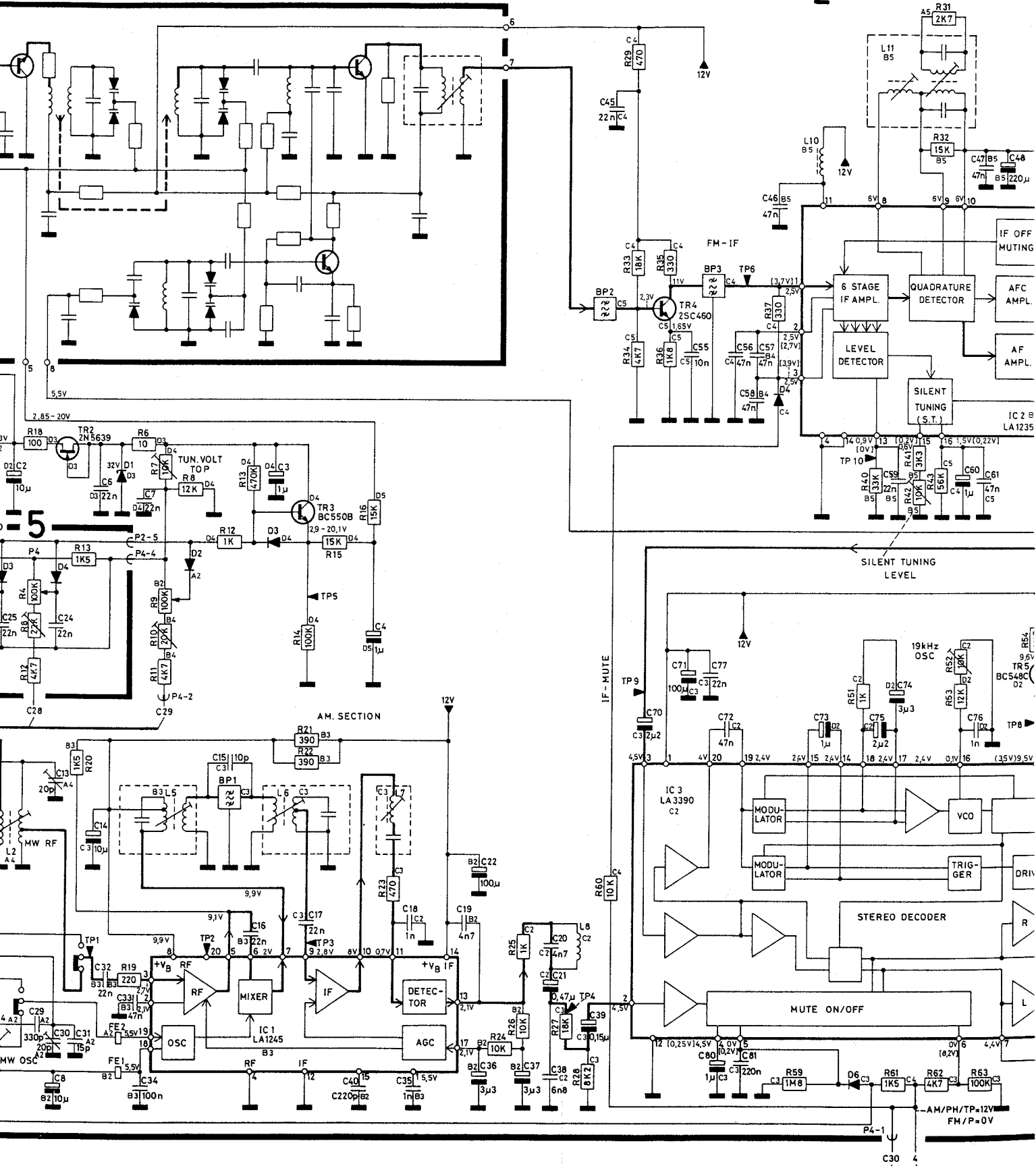
Bei der Auswechslung von Komponente mit diesem Symbol sind Komponente mit gleichen Teilnummer zu verwenden. Die neue Komponente ist in derselben Weise wie die ausgewechselte Komponente zu montieren.



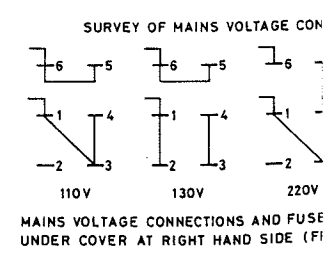
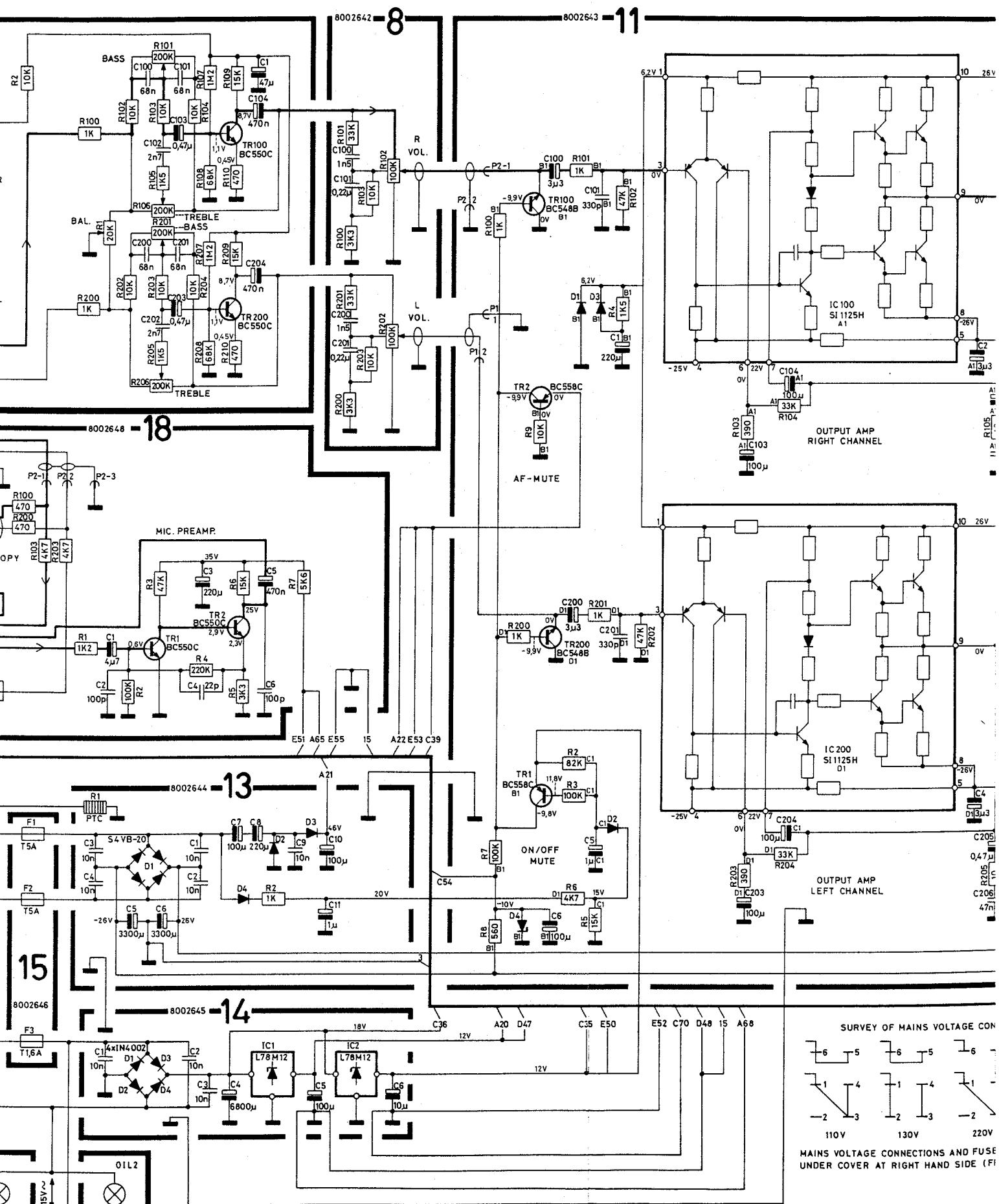
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

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

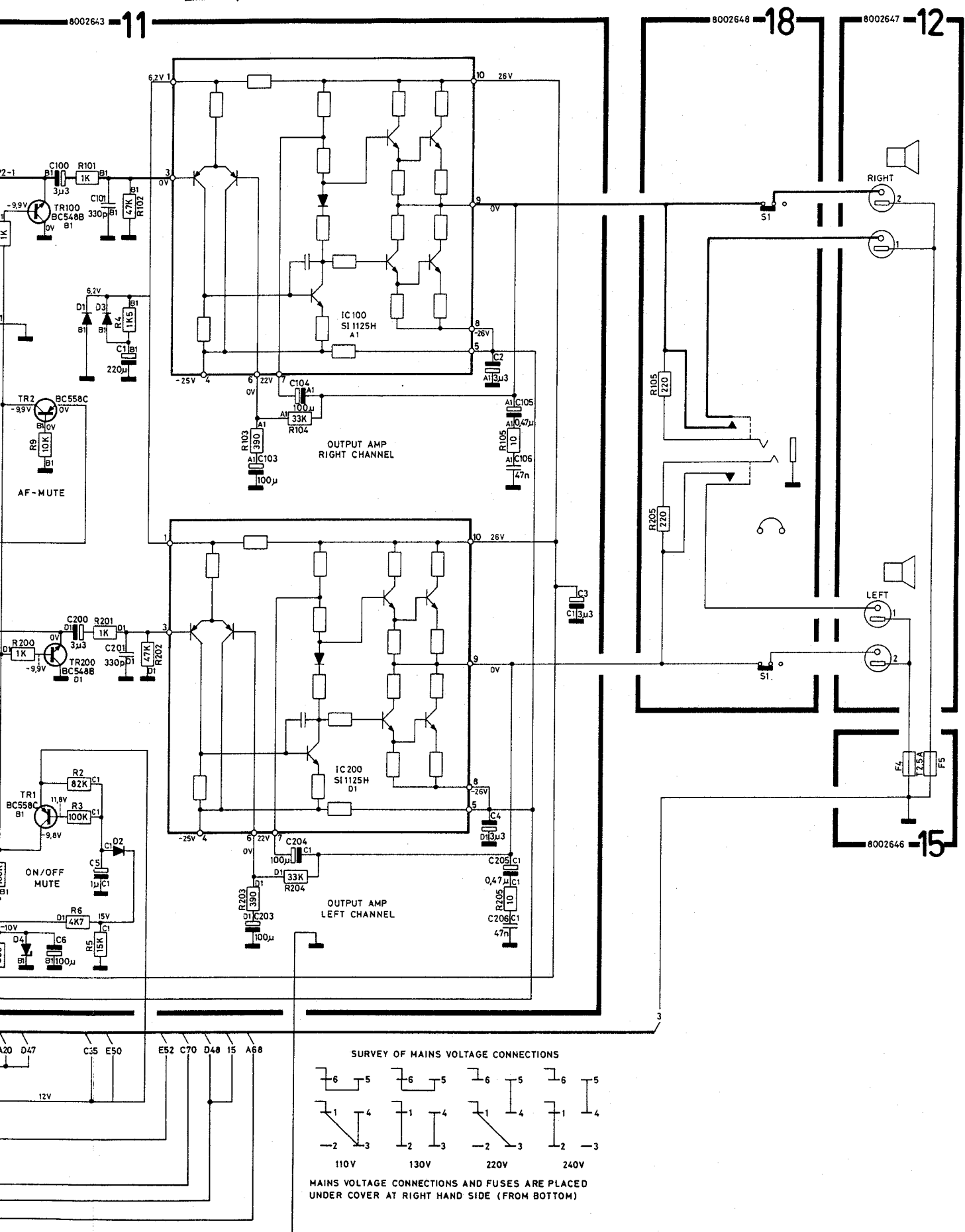




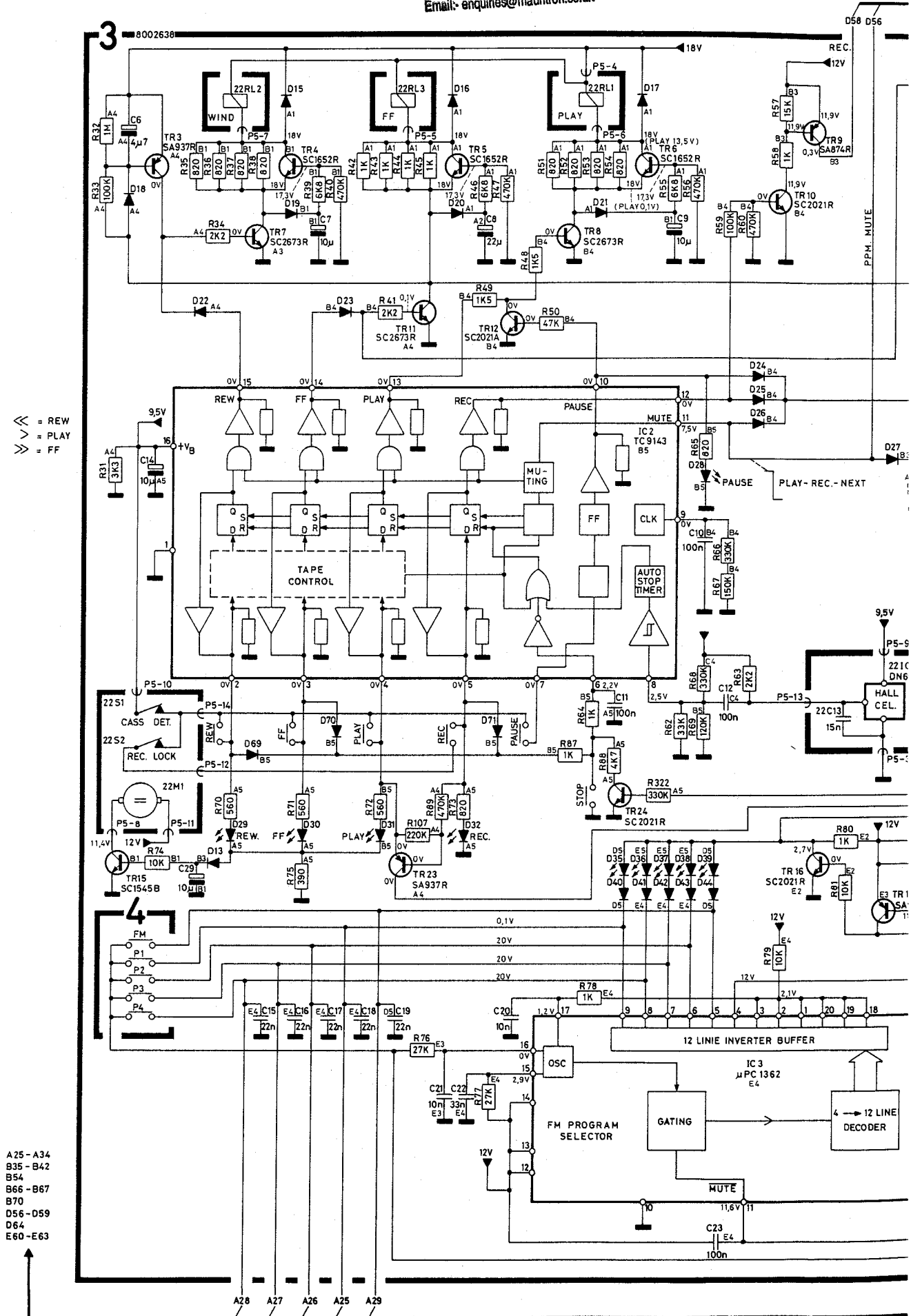
Voltages in [] are measured in AM mode
 Voltages in () are measured in FM AUTO mode

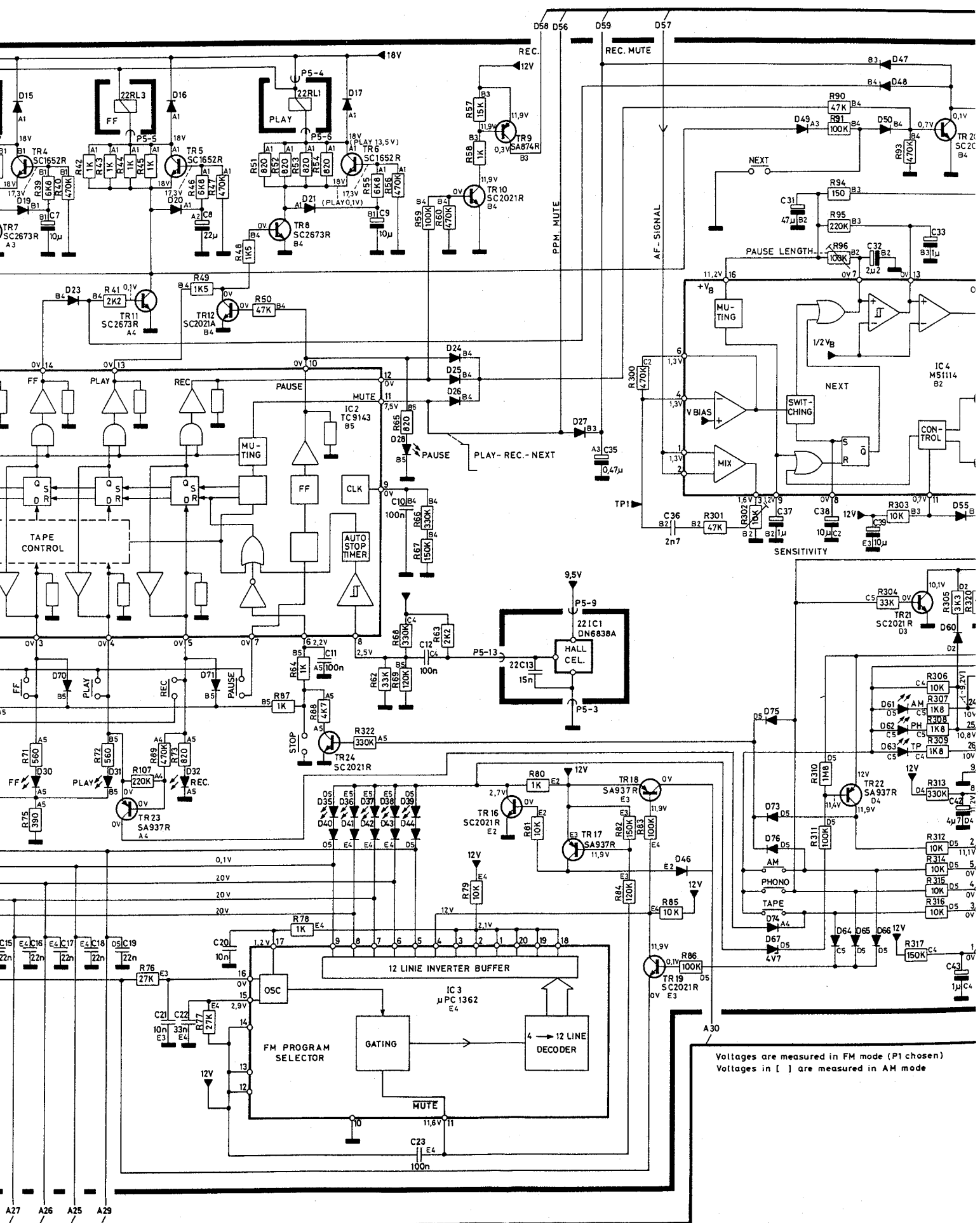


For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel:- 01844-351694 Fax:- 01844-352554
 Email- enquiries@mauritron.co.uk



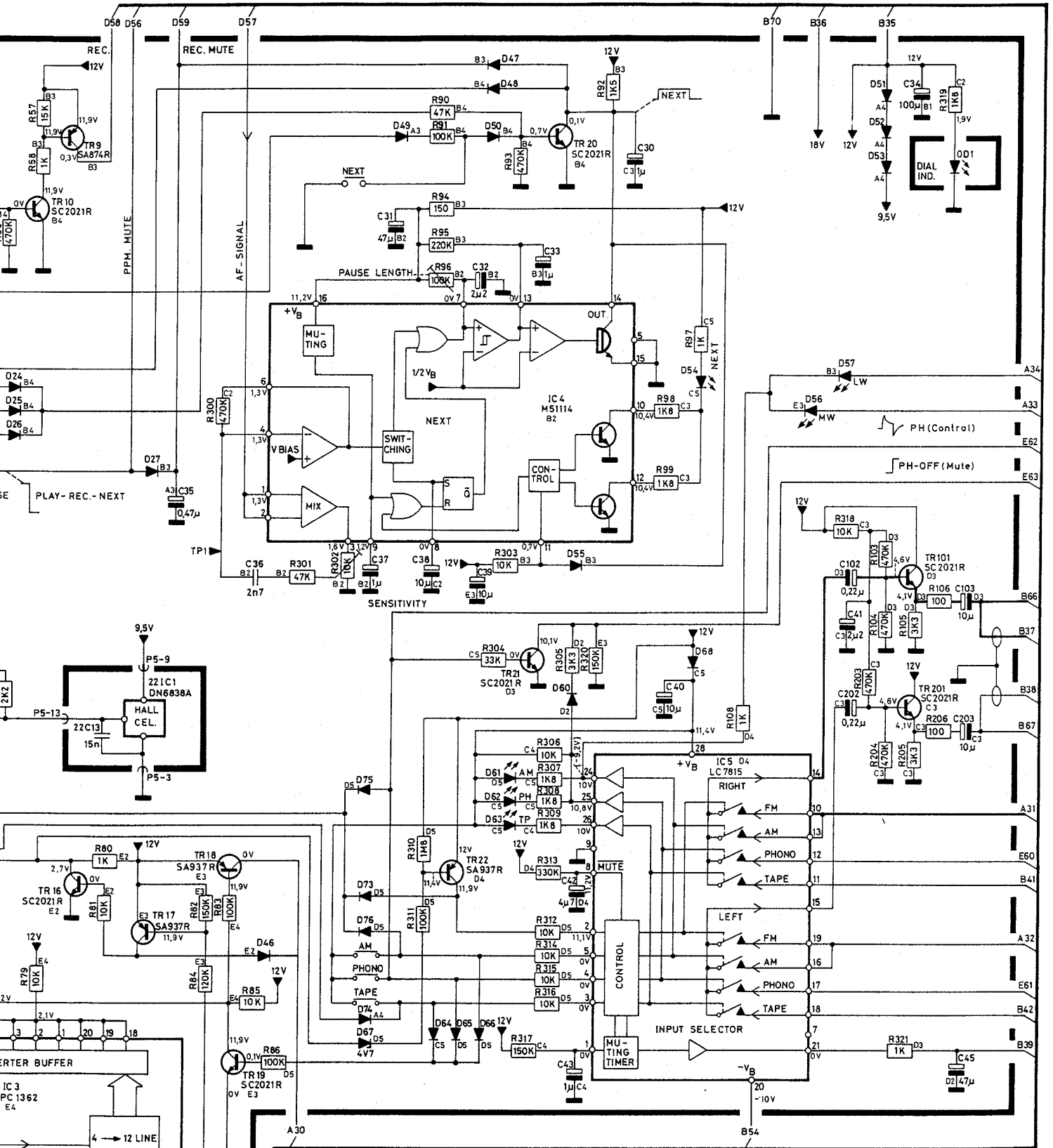
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinner
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauriton.co.uk





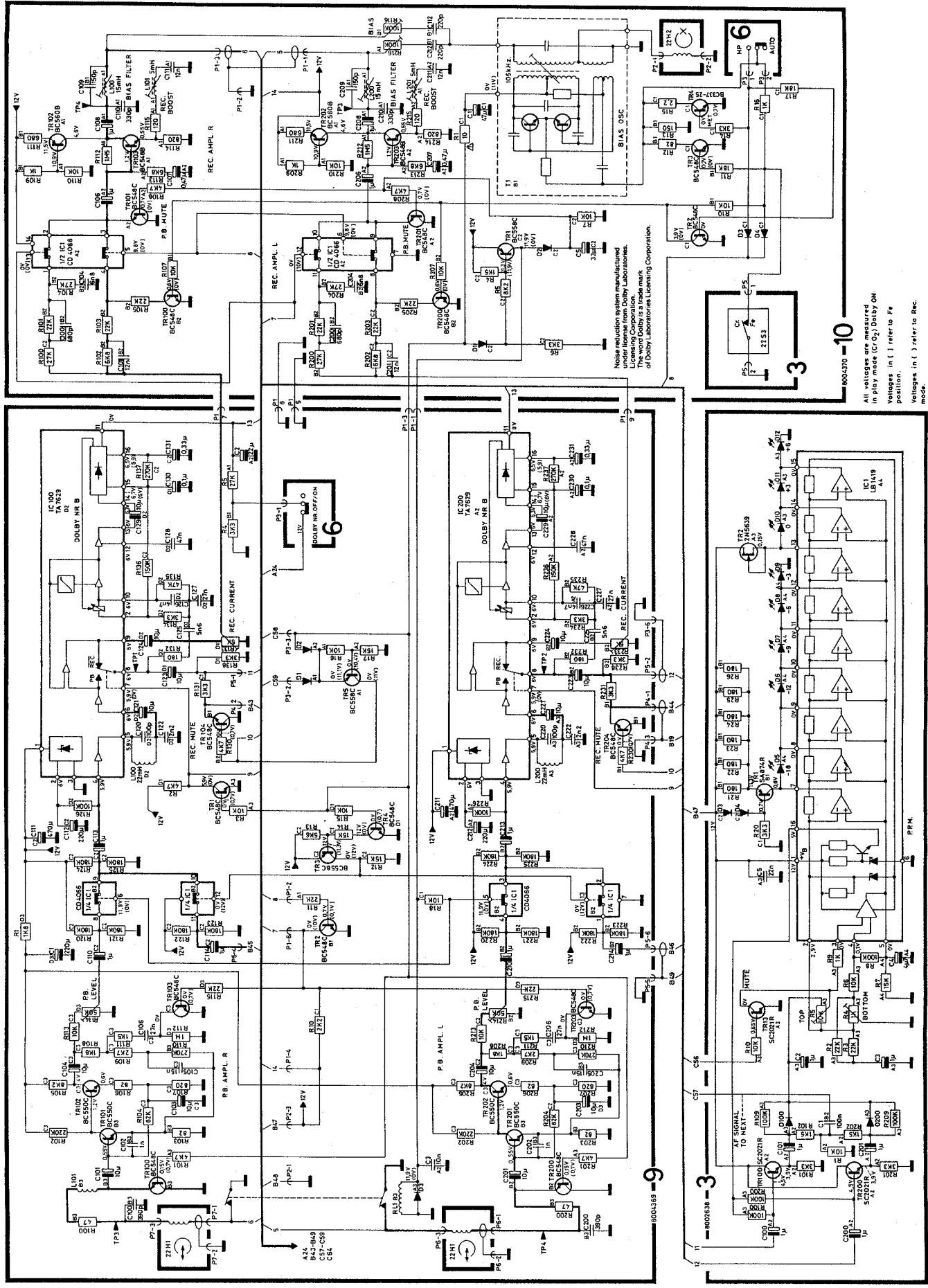
Voltages are measured in FM mode (P1 chosen)
 Voltages in [] are measured in AM mode

A27 A26 A25 A29

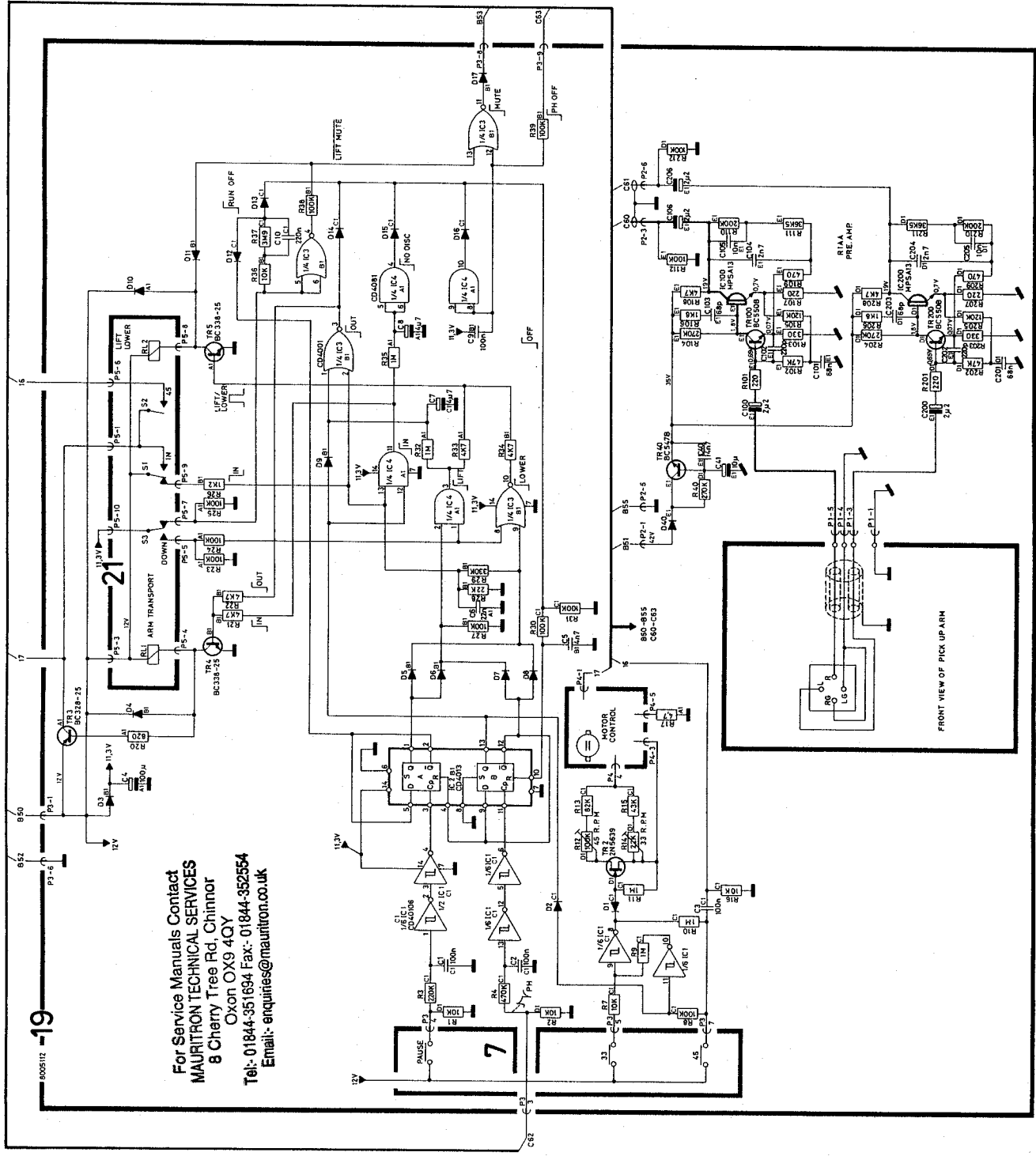


Voltages are measured in FM mode (P1 chosen)
 Voltages in [] are measured in AM mode

DIAGRAM D

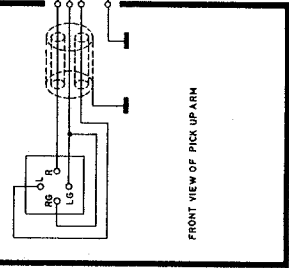


All voltages are measured in play mode (C-O) Dolby ON. Voltages in () refer to E position. Voltages in () refer to Rec. mode.



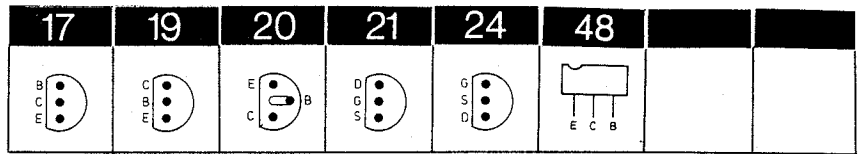
-19

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



FRONT VIEW OF PICK UP ARM

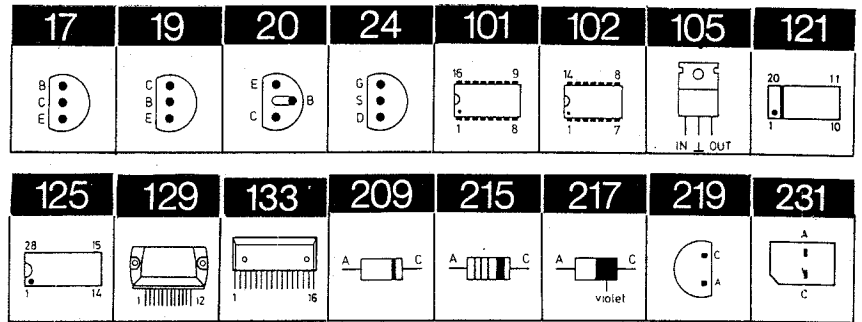
SEMICONDUCTORS



Transistors

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

| | | | | | | | |
|-------|---------|----|----------|---------|---------|----|---------|
| 2TR1 | 8320295 | 17 | C 2060 Q | 3TR19 | 8320563 | 48 | C2021 R |
| | | 20 | BC 337 | 3TR20 | | | |
| | | | | 3TR21 | | | |
| 2TR2 | 8320396 | 21 | K246 BL | | | | |
| | | 24 | MPF 4392 | 3TR22 | 8320561 | 48 | A937 R |
| | | 24 | 2N 5639 | | | | |
| 2TR3 | 8320344 | 17 | C1740 Q | 3TR24 | 8320563 | 48 | C2021 R |
| | | 20 | BC 550B | | | | |
| 2TR4 | 8320459 | 17 | C1675 K | 3TR25 | 8320561 | 48 | A937 R |
| | | | | | | | |
| 2TR5 | 8320285 | 17 | C2603 F | 3TR100 | 8320563 | 48 | C2021 R |
| 2TR6 | | 20 | BC 548C | 3TR101 | | | |
| | | | | | | | |
| 2TR7 | 8320398 | 17 | A1115 F | 6TR100 | 8320458 | 17 | C2603 F |
| | | 20 | BC 558C | | | 20 | BC 550C |
| 2TR8 | 8320285 | 17 | C2603 F | | | | |
| | | 20 | BC 548C | 9TR1 | 8320285 | 17 | C2603 F |
| | | | | 9TR2 | | 20 | BC 548C |
| 3TR1 | 8320560 | 48 | A874 R | | | | |
| | | | | 9TR3 | 8320398 | 17 | A1115 F |
| 3TR2 | 8320396 | 21 | K246 BL | | | 20 | BC 558C |
| | | 24 | MPF 4392 | | | | |
| | | 24 | 2N 5639 | 9TR4 | 8320285 | 17 | C2603 F |
| 3TR3 | 8320561 | 48 | A937 R | | | 20 | BC 548C |
| | | | | | | | |
| 3TR4 | 8320562 | 48 | C1652 R | 9TR5 | 8320398 | 17 | A1115 F |
| 3TR5 | | | | | | 20 | BC 558C |
| 3TR6 | | | | | | | |
| | | | | 9TR100 | 8320285 | 17 | C2603 F |
| 3TR7 | 8320564 | 48 | C2673 R | | | 20 | BC 548C |
| 3TR8 | | | | | | | |
| | | | | 9TR101 | 8320458 | 17 | C1344 E |
| 3TR9 | 8320560 | 48 | A874 R | 9TR102 | | 20 | BC 550C |
| | | | | | | | |
| 3TR10 | 8320563 | 48 | C2021 R | 9TR103 | 8320285 | 17 | C2603 F |
| | | | | 9TR104 | | 20 | BC 548C |
| 3TR11 | 8320564 | 48 | C2673 R | | | | |
| | | | | 10TR1 | 8320398 | 17 | A1115 F |
| 3TR12 | 8320563 | 48 | C2021 R | | | 20 | BC 558C |
| 3TR13 | | | | | | | |
| | | | | 10TR2 | 8320285 | 17 | C2603 F |
| 3TR15 | 8320565 | 48 | C1545 B | 10TR3 | | 20 | BC 548C |
| | | | | | | | |
| 3TR16 | 8320563 | 48 | C2021 R | 10TR4 | 8320295 | 17 | D467 C |
| | | | | | | | |
| 3TR17 | 8320561 | 48 | A937 R | 10TR100 | 8320285 | 17 | C2603 F |
| 3TR18 | | | | 10TR101 | | 20 | BC 548C |
| | | | | | | | |
| | | | | 10TR102 | 8320385 | 17 | A836 E |
| | | | | | | 20 | BC560 B |



| | | | | | | | |
|---------|---------|----|---------|---------|---------|----|----------|
| 10TR103 | 8320108 | 17 | C458 D | 19TR2 | 8320396 | 24 | 2N 5639 |
| | | 20 | BC548 B | | | 24 | MPF 4392 |
| 11TR1 | 8320398 | 17 | A733 K | 19TR3 | 8320448 | 20 | BC 328 |
| 11TR2 | | 20 | BC 558C | 19TR4 | 8320329 | 20 | BC 338 |
| 11TR100 | 8320108 | 17 | C2878 B | 19TR5 | | | |
| | | 20 | BC548 B | 19TR40 | 8320097 | 20 | BC 547B |
| 18TR1 | 8320458 | 17 | C1344 E | 19TR100 | 8320458 | 20 | BC 550C |
| 18TR2 | | 20 | BC 550C | | | | |

IC's

| | | | | | | | |
|--------|---------|-----|---|---------|---------|-----|--|
| 2IC1 | 8340576 | 121 | LA 1245 | 11IC100 | 8340256 | 129 | SI-1125H |
| 2IC2 | 8340574 | 101 | LA 1235 | 14IC1 | 8340583 | 105 | L 78M12 |
| 2IC3 | 8340575 | 121 | LA 3390 | 14IC2 | | | |
| 3IC1 | 8340582 | 101 | LB 1419 | 19IC1Δ | 8340221 | 102 | CD 40106 102 HEF 40106BP |
| 3IC2 | 8340580 | 101 | TC 9143 | 19IC2Δ | 8340176 | 102 | CD 4013BCN 102 MC14013BCP 102 HEF 4013BP |
| 3IC3 | 8340579 | 121 | μPC 1362 | 19IC3Δ | 8340167 | 102 | CD 4001 102 HEF 4001BP |
| 3IC4 | 8340581 | 133 | M51144 | 19IC4Δ | 8340172 | 102 | CD 4081BCN 102 MC14081BCP 102 HEF 4081BP |
| 3IC5Δ | 8340578 | 125 | LC7815 | 19IC100 | 8340054 | 19 | MPSA 13 |
| 9IC1Δ | 8340202 | 102 | CD4066 BCN 102 HEF 4066 BP 102 MC14066BCP | | | | |
| 9IC100 | 8340577 | 101 | TA 7629 | | | | |
| 10IC1Δ | 8340202 | 102 | CD 4066BCN 102 HEF 4066BP 102 MC14066BCP | | | | |

Δ betyder at statisk elektricitet kan ødelægge komponenten.
 Δ indicates that static electricity may destroy the component.
 Δ bedeutet, daß statische Elektrizität die Komponente zerstören kann.
 Δ signifi que électricité statique peut detruire le composant.

Diodes

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

| | | | | | |
|---------|---------|----------|-------------|--|--|
| 0D1 | 8330119 | Dial LED | | | |
| 2D1 | 8340252 | 219 | μPC 574 | | |
| 2D2-7 | 8300058 | 209 | S 2076 | | |
| 3D3-4 | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D5-9 | 8330098 | 231 | SLP 265B gr | | |
| 3D10-13 | 8330099 | 231 | SLP 165B r | | |
| 3D14 | 8330098 | 231 | SLP 265B gr | | |
| 3D15-17 | 8300023 | 209 | DA 135E | | |
| | | 209 | 1N 4002 | | |
| 3D18 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D19-21 | 8300023 | 209 | DA 135E | | |
| | | 209 | 1N 4002 | | |
| 3D22-27 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D28-39 | 8300099 | 231 | SLP 165B r | | |
| 3D40-53 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D54 | 8330099 | 231 | SLP 165B r | | |
| 3D55 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D56-57 | 8300099 | 231 | SLP 165B r | | |
| 3D60 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D61-63 | 8330099 | 231 | SLP 165B r | | |
| 3D64-66 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D67 | 8300036 | 209 | ZPD 4.7V | | |
| | | 209 | BZX 79C4.7V | | |
| | | 209 | BZX 83C4.7V | | |
| 3D68-76 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 3D100 | 8300430 | 209 | K 34A | | |
| 5D1-4 | 8300058 | 209 | S 2076 | | |
| 9D1-3 | | 209 | 1N 4148 | | |
| 10D1-4 | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 11D1 | 8300201 | 209 | RD 6,2BD | | |
| | | 209 | ZPD 6,2V | | |
| | | 209 | BZX 79C6,2V | | |
| | | 209 | BZX 83C6,2V | | |
| 11D2-3 | 8300058 | 209 | S 2076 | | |
| | | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 11D4 | 8300310 | 209 | RD 10EBD | | |
| | | 209 | ZPD 10V | | |
| | | 209 | BZX 83C10V | | |
| | | 209 | BZX 79C10V | | |
| 13D1 | 8300330 | | S4VB-20 | | |
| 13D2-4 | 8300023 | 209 | DS 135E | | |
| 14D1-4 | | 209 | 1N 4002 | | |
| 19D1-2 | 8300058 | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |
| 19D3 | 8300023 | 209 | 1N 4002 | | |
| 19D4-17 | 8300058 | 209 | 1N 4148 | | |
| | | 217 | SFD 184 | | |
| | | 215 | 1N 4148 | | |

LIST OF ELECTRICAL PARTS

Resistors not mentioned are standard 5% 1/4 W

AM-FM IF & MPX 8002637-PCB2

| | | | | | |
|------|---------|----------------|-----|---------|--------------------|
| OC1 | 4130081 | 10 nF 20% 125V | OT1 | 8020141 | Aerial transformer |
| OIL1 | 8230048 | 18V/60 mA | OT2 | 8013280 | Mains transformer |
| OIL2 | 8230048 | 18V/60 mA | | | |

| | | | | | |
|-----|---------|------------------------|-----|---------|-------------------|
| R7 | 5370248 | 10 k Ω 20% | R42 | 5370250 | 10 k Ω 20% |
| R10 | 5370251 | 20 k Ω 20% | R52 | 5370248 | 10 k Ω 20% |
| R11 | 5020653 | 4.7 k Ω 1% 1/4W | R64 | 5370249 | 30 k Ω 20% |

| | | | | | |
|-----|---------|--------------------------|------|---------|------------------------|
| C1 | 4200144 | 47 μ F 50V | C39 | 4200475 | 0.15 μ F 50V |
| C2 | 4200487 | 10 μ F 500V | C40 | 4010021 | 220 pF 10% 100V |
| C3 | 4200426 | 1 μ F 50V | C44 | 4003128 | 100 pF 5% 63V |
| C4 | 4200426 | 1 μ F 50V | C45 | 4010060 | 22 nF -20+80% 40V |
| C6 | 4010060 | 22 nF -20+80% 40V | C46 | 4030015 | 47 nF -20+80% 16V |
| C7 | 4010060 | 22 nF -20+80% 40V | C47 | 4030015 | 47 nF -20+80% 16V |
| C8 | 4200431 | 10 μ F 16V | C48 | 4200440 | 220 μ F 10V |
| C9 | 4000081 | 18 pF 5% 63V | C55 | 4010041 | 10 μ F -20+80% 40V |
| C10 | 4100033 | 3.3 nF 5% 63V | C56 | 4030015 | 47 nF -20+80% 16V |
| C11 | 4340019 | 20 pF | C57 | 4030015 | 47 nF -20+80% 16V |
| C12 | 4310016 | 2x335 pF | C58 | 4030015 | 47 nF -20+80% 16V |
| C13 | 4340019 | 20 pF | C59 | 4010060 | 22 nF -20+80% 40V |
| C14 | 4200431 | 10 μ F 16V | C60 | 4200426 | 1 μ F 50V |
| C15 | 4000016 | 10 pF 2% 63V | C61 | 4030015 | 47 nF -20+80% 16V |
| C16 | 4010060 | 22 nF -20+80% 40V | C62 | 4200423 | 2.2 μ F 50V |
| C17 | 4010060 | 22 nF -20+80% 40V | C63 | 4200423 | 2.2 μ F 50V |
| C18 | 4010027 | 1 nF 10% 100V | C64 | 4010060 | 22 nF -20+80% 40V |
| C19 | 4010063 | 4.7 nF 10% 63V | C65 | 4010081 | 270 pF 10% 100V |
| C20 | 4010063 | 4.7 nF 10% 63V | C66 | 4200426 | 1 μ F 50V |
| C21 | 4200476 | 0.47 μ F 50V | C67 | 4010060 | 22 nF -20+80% 40V |
| C22 | 4200438 | 100 μ F 16V | C68 | 4010021 | 220 pF 10% 100V |
| C25 | 4101003 | 120 pF 5% 63V | C70 | 4200423 | 2.2 μ F 50V |
| C26 | 4340019 | 20 pF | C71 | 4200438 | 100 μ F 16V |
| C27 | 4003124 | 56 pF 2% 63V | C72 | 4030015 | 47 nF -20+80% 16V |
| C28 | 4310016 | 2x335 pF | C73 | 4200426 | 1 μ F 50V |
| C29 | 4101009 | 330 pF 5% 63V | C74 | 4200485 | 3.3 μ F 50V |
| C30 | 4340019 | 20 pF | C75 | 4200423 | 2.2 μ F 50V |
| C31 | 4000049 | 15 pF 2% 63V | C76 | 4101019 | 1 nF 5% 63V |
| C32 | 4010060 | 22 nF -20+80% 40V | C77 | 4010060 | 22 nF -20+80% 40V |
| C33 | 4030015 | 47 nF -20+80% 16V | C80 | 4200426 | 1 μ F 50V |
| C34 | 4030010 | 0.1 μ F -20+100% 16V | C81 | 4130186 | 220 nF 20% 125V |
| C35 | 4010027 | 1 nF 10% 100V | C100 | 4010064 | 560 pF 10% 63V |
| C36 | 4200485 | 3.3 μ F 50V | C101 | 4130172 | 10 nF 10% 63V |
| C37 | 4200485 | 3.3 μ F 50V | C102 | 4200426 | 1 μ F 50V |

| | | | | | |
|-----|---------|----------|-------|---------|-----------|
| BP1 | 8030043 | 10.7 MHz | LP100 | 8030041 | 19/38 kHz |
| BP2 | 8030044 | 10.7 MHz | | | |
| BP3 | 8030015 | 468 kHz | | | |

| | | | | | |
|----|---------|-----------|-----|---------|---------|
| L1 | 8020346 | LW aerial | L7 | 8020350 | 468 kHz |
| L2 | 8020345 | MW aerial | L8 | 8020270 | LP |
| L3 | 8020344 | LW Osc. | L10 | 8020269 | 2.2 mH |
| L4 | 8020343 | MW Osc. | L11 | 8030040 | FM Det. |
| L5 | 8020347 | 468 kHz | L12 | 8030042 | 114 kHz |
| L6 | 8020348 | 468 kHz | | | |

| | | |
|-----|---------|------------|
| FE1 | 6710001 | Core beads |
| FE2 | 6710001 | Core beads |

| | | |
|----|---------|------------------|
| P1 | 7220367 | Connector 2 pol. |
| P2 | 7220371 | Connector 5 pol. |
| P3 | 7220313 | Connector 3 pol. |
| P4 | 7220370 | Connector 4 pol. |
| P5 | 7220368 | Connector 3 pol. |

Control Circuit 8002638 - PCB3

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

| | | | | | |
|-----|---------|-------------------|------|---------|----------------|
| R4 | 5370252 | 1 kΩ 20% | R76 | 5370246 | 100 kΩ 20% |
| R5 | 5370042 | 10 kΩ 20% | R302 | 5370042 | 10 kΩ 20% |
| C1 | 4130179 | 100 nF 20% 63V | C23 | 4130179 | 100 nF 20% 63V |
| C2 | 4200574 | 1 μF 50V | C29 | 4200577 | 10 μF 16V |
| C3 | 4200574 | 1 μF 50V | C30 | 4200574 | 1 μF 50V |
| C4 | 4200576 | 4.7 25V | C31 | 4200580 | 47 μF 16V |
| C5 | 4010060 | 22 nF -20+80% 40V | C32 | 4200575 | 2.2 μF 50V |
| C6 | 4200576 | 4.7 μF 25V | C33 | 4200574 | 1 μF 50V |
| C7 | 4200578 | 10 μF 25V | C34 | 4200581 | 100 μF 16V |
| C8 | 4200579 | 22 μF 25V | C35 | 4200573 | 0.47 μF 50V |
| C9 | 4200578 | 10 μF 25V | C37 | 4200574 | 1 μF 50V |
| C10 | 4130179 | 100 nF 20% 63V | C38 | 4200577 | 10 μF 16V |
| C11 | 4130179 | 100 nF 20% 63V | C39 | 4200577 | 10 μF 16V |
| C12 | 4130179 | 100 nF 20% 63V | C40 | 4200577 | 10 μF 16V |
| C14 | 4200577 | 10 μF 16V | C41 | 4200575 | 2.2 μF 50V |
| C15 | 4010060 | 22 nF -20+80% 40V | C42 | 4200576 | 4.7 μF 25V |
| C16 | 4010060 | 22 nF -20+80% 40V | C43 | 4200574 | 1 μF 50V |
| C17 | 4010060 | 22 nF -20+80% 40V | C45 | 4200580 | 47 μF 16V |
| C18 | 4010060 | 22 nF -20+80% 40V | C100 | 4200574 | 1 μF 50V |
| C19 | 4010060 | 22 nF -20+80% 40V | C101 | 4200574 | 1 μF 50V |
| C20 | 4010041 | 10 nF -20+80% 40V | C102 | 4200572 | 0.22 μF 50V |
| C21 | 4010041 | 10 nF -20+80% 40V | C103 | 4200577 | 10 μF 16V |
| C22 | 4130176 | 33 nF 20% 63V | | | |

P5 7220372 Connector 14 pol.

FM Preset 8002640 - PCB5

| | | | | | |
|-----|---------|-------------------|-----|---------|-------------------|
| R1 | 5300125 | 100 kΩ | R7 | 5370040 | 22 kΩ 20% |
| R2 | 5300125 | 100 kΩ | R8 | 5370040 | 22 kΩ 20% |
| R3 | 5300125 | 100 kΩ | R9 | 5020653 | 4.7 kΩ 1% 1/4W |
| R4 | 5300125 | 100 kΩ | R10 | 5020653 | 4.7 kΩ 1% 1/4W |
| R5 | 5370040 | 22 kΩ 20% | R11 | 5020653 | 4.7 kΩ 1% 1/4W |
| R6 | 5370040 | 22 kΩ 20% | R12 | 5020653 | 4.7 kΩ 1% 1/4W |
| C24 | 4010060 | 22 nF -20+80% 40V | C26 | 4010060 | 22 nF -20+80% 40V |
| C25 | 4010060 | 22 nF -20+80% 40V | C27 | 4010060 | 22 nF -20+80% 40V |

Secondary Controls 8002641 - PCB6

| | | | | | |
|------|---------|-----------------|------|---------|------------------|
| R1 | 5310115 | 20 kΩ BALANCE | R106 | 5310116 | 200 kΩ TREBLE |
| R101 | 5310116 | 200 kΩ BASS | R112 | 5310014 | 200 kΩ REC LEVEL |
| C1 | 4200144 | 47 μF 50V | C103 | 4200573 | 0.47 μF 50V |
| C100 | 4130264 | 68 nF 10% 63V | C104 | 4200573 | 0.47 μF 50V |
| C101 | 4130264 | 68 nF 10% 63V | C105 | 4003128 | 100 pF 5% 63V |
| C102 | 4100076 | 2.7 nF 2.5% 63V | | | |

Volume Control 8002642 - PCB8

| | | | | | |
|------|---------|----------------|------|---------|----------------|
| R102 | 5310117 | 100 kΩ VOLUMEN | C100 | 4010067 | 1.5 nF 10% 63V |
| | | | C101 | 4130215 | 220 nF 20% 63V |

PB-Amplifier & Dolby Processor 8004369 - PCB9

| | | | | | |
|------|---------|-------------------|------|---------|-----------------|
| R114 | 5370018 | 50 kΩ 20% | R133 | 5370247 | 5 kΩ 20% 1/4W |
| | | | R134 | 5020265 | 3.3 kΩ 2% 1/4W |
| C1 | 4200440 | 220 μF 10V | C114 | 4200426 | 1 μF 50V |
| C2 | 4200488 | 22 μF 16V | C120 | 4003136 | 100 pF 2% 63V |
| C3 | 4010041 | 10 nF -20+80% 40V | C121 | 4200431 | 10 μF 16V |
| C100 | 4010037 | 390 pF 10% 100V | C221 | 4200577 | 10 μF 16V |
| C101 | 4200431 | 10 μF 16V | C122 | 4100029 | 2.2 nF 5% 63V |
| C102 | 4010027 | 1 nF 10% 100V | C123 | 4200431 | 10 μF 16V |
| C103 | 4200431 | 10 μF 16V | C124 | 4200431 | 10 μF 16V |
| C104 | 4200431 | 10 μF 16V | C125 | 4100049 | 5.6 μF 1% 63V |
| C105 | 4130173 | 15 nF 10% 63V | C126 | 4100059 | 4.7 nF 2.5% 63V |
| C106 | 4130175 | 27 nF 10% 63V | C127 | 4130180 | 27 nF 1% 63V |
| C110 | 4200426 | 1 μF 50V | C128 | 4130178 | 47 nF 10% 63V |
| C111 | 4200444 | 470 μF 16V | C129 | 4200431 | 10 μF 16V |
| C112 | 4200440 | 220 μF 16V | C130 | 4130179 | 100 nF 20% 63V |
| C113 | 4200426 | 1 μF 50V | C131 | 4130187 | 330 nF 20% 250V |

| | | | | | |
|----|---------|------------|------|---------|--------|
| L1 | 7600075 | Reed-relay | L100 | 8020272 | 22 mH |
| | | | L101 | 8020271 | 5.2 mH |

| | | | | | |
|----|---------|------------------|----|---------|------------------|
| P1 | 7220369 | Connector 9 pol. | P5 | 7220318 | Connector 6 pol. |
| P2 | 7220313 | Connector 3 pol. | P6 | 7220285 | Connector 3 pol. |
| P3 | 7220313 | Connector 3 pol. | P7 | 7220285 | Connector 3 pol. |
| P4 | 7220313 | Connector 3 pol. | | | |

**Record Ampl. & Bias Osc.
8004370 - PCB10**

| | | |
|------|---------|-------------------------|
| R1 | 5020489 | 10 Ω Safety res. |
| R116 | 5370130 | 100 k Ω 20% |

| | | | | | |
|------|---------|-----------------|------|---------|------------------|
| C1 | 4200483 | 47 μ F 16V | C107 | 4200476 | 0.47 μ F 50V |
| C5 | 4200145 | 33 μ F 16V | C108 | 4200426 | 1 μ F 50V |
| C100 | 4010031 | 680 pF 10% 100V | C110 | 4010062 | 330 pF 10% 100V |
| C101 | 4130174 | 12 nF 10% 63V | C111 | 4130174 | 12 nF 10% 63V |
| C106 | 4200426 | 1 μ F 50V | C112 | 4010021 | 220 pF 10% 100V |

| | | | | | |
|------|---------|-----------|----|---------|------------------|
| T1 | 8052214 | Bias Osc. | P1 | 7220313 | Connector 3 pol. |
| L100 | 8020358 | 15 mH | P2 | 7220312 | Connector 2 pol. |
| L101 | 8020359 | 5 mH | P3 | 7220312 | Connector 2 pol. |

**Power Amplifier 8002643 -
PCB11**

| | | |
|------|---------|----------------|
| R103 | 5020652 | 390 k Ω |
| R105 | 5011000 | 10 Ω |

| | | | | | |
|------|---------|-----------------|------|---------|-----------------|
| C1 | 4200440 | 220 μ F 10V | C101 | 4010062 | 330 pF 10% 100V |
| C2 | 4200429 | 3.3 μ F 50V | C102 | 4200432 | 10 μ F 35V |
| C3 | 4200429 | 3.3 μ F 50V | C103 | 4200438 | 100 μ F 10V |
| C4 | 4200429 | 3.3 μ F 50V | C104 | 4200439 | 100 μ F 35V |
| C5 | 4200576 | 4.7 μ F 25V | C105 | 4130179 | 100 nF 20% 63V |
| C6 | 4200438 | 100 μ F 10V | C106 | 4130179 | 100 nF 20% 63V |
| C100 | 4200429 | 3.3 μ F 50V | | | |

| | | |
|----|---------|------------------|
| P1 | 7220312 | Connector 2 pol. |
| P2 | 7220312 | Connector 2 pol. |

**Power Supply 2x26V 8002644 -
PCB13**

| | | |
|----|---------|-----------------|
| R1 | 5230010 | 10 Ω PTC |
|----|---------|-----------------|

| | | | | | |
|----|---------|--------------------|-----|---------|--------------------|
| C1 | 4010091 | 10 nF -20+80% 100V | C7 | 4200439 | 100 μ F 50V |
| C2 | 4010091 | 10 nF -20+80% 100V | C8 | 4200442 | 220 μ F 35V |
| C3 | 4010091 | 10 nF -20+80% 100V | C9 | 4010091 | 10 nF -20+80% 100V |
| C4 | 4010091 | 10 nF -20+80% 100V | C10 | 4200439 | 100 μ F 50V |
| C5 | 4200447 | 3300 μ F 50V | C11 | 4200146 | 3.3 μ F 50V |
| C6 | 4200447 | 3300 μ F 50V | | | |

**Power Supply 12V 8002645 -
PCB14**

| | | | | | |
|----|---------|--------------------|----|---------|------------------|
| C1 | 4010091 | 10 nF -20+80% 100V | C4 | 4200110 | 6800 μ F 25V |
| C2 | 4010091 | 10 nF -20+80% 100V | C5 | 4200438 | 100 μ F 16V |
| C3 | 4010091 | 10 nF -20+80% 100V | C6 | 4200431 | 10 μ F 16V |

Fuses Board 8002646 - PCB15

| | | | | | |
|----|---------|--------------------|----|---------|--------------------|
| F1 | 6600038 | 5A-slow 250V IEC | F4 | 6600020 | 2.5A-slow 250V IEC |
| F2 | 6600038 | 5A-slow 250V IEC | F5 | 6600020 | 2.5A-slow 250V IEC |
| F3 | 6600022 | 1.6A-slow 250V IEC | | | |

**Mic. Ampl. & Phones etc.
8002648 - PCB18**

| | | |
|------|---------|-------------------|
| R105 | 5011017 | 220 Ω 1/2W |
|------|---------|-------------------|

| | | | | | |
|----|---------|-----------------|----|---------|---------------|
| C1 | 4200486 | 4.7 μ F 50V | C4 | 4000026 | 22 pF 2% 63V |
| C2 | 4003136 | 100 pF 2% 63V | C5 | 4200476 | 0.47 50V |
| C3 | 4200443 | 220 μ F 50V | C6 | 4003136 | 100 pF 2% 63V |

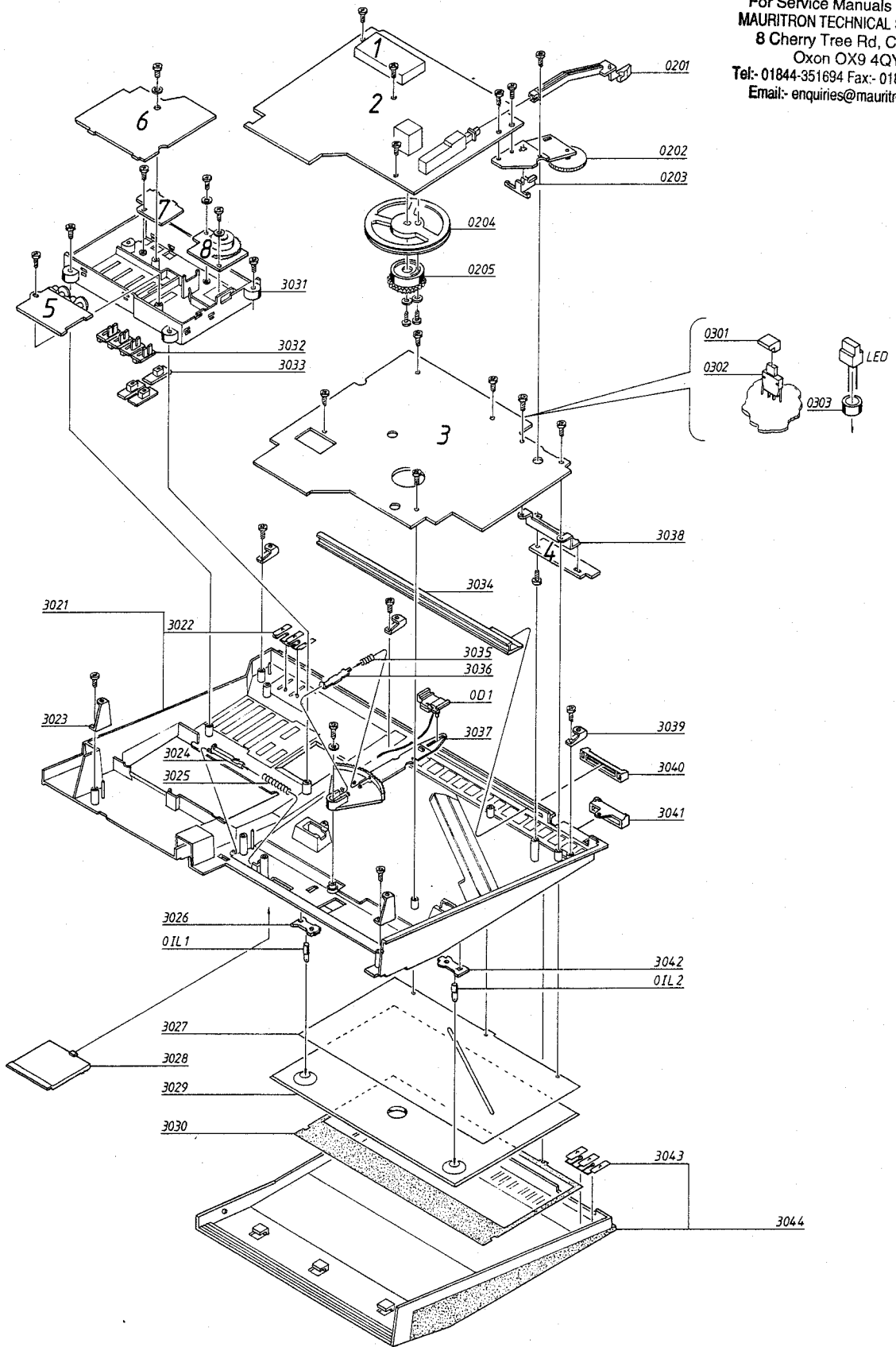
| | | |
|----|---------|------------------|
| P1 | 7220313 | Connector 3 pol. |
| P2 | 7220285 | Connector 3 pol. |
| P3 | 7220283 | Connector 3 pol. |

Phono Control Circuit & RIAA Amplifier 8005112 - PCB19

| | | | | | |
|-------|---------|-------------------------|------|---------|-------------------------|
| R12 | 5370128 | 100 k Ω 20% | R17 | 5000085 | 4.7 Ω 10% 1/2W |
| R14 | 5370068 | 22 k Ω 20% | R110 | 5020456 | 200 k Ω 1% 1/4 W |
| R15 | 5020132 | 43.2 k Ω 1% 1/4W | R111 | 5020075 | 36.5 k Ω 1% 1/4W |
| <hr/> | | | | | |
| C1 | 4130179 | 100 nF 20% 63V | C40 | 4010063 | 4.7 nF 10% 63V |
| C2 | 4130179 | 100 nF 20% 63V | C41 | 4201081 | 10 μ F 63V |
| C3 | 4130179 | 100 nF 20% 63V | C100 | 4200423 | 2.2 μ F 50V |
| C4 | 4200461 | 100 μ F 25V | C101 | 4130264 | 68 nF 10% 63V |
| C5 | 4010063 | 4.7 nF 10% 63V | C102 | 4000165 | 220 pF 5% 63V |
| C6 | 4130060 | 22 nF 10% 63V | C103 | 4000091 | 68 pF 5% 63V |
| C7 | 4200477 | 4.7 μ F 25V | C104 | 4010065 | 2.7 nF 10% 63V |
| C8 | 4200477 | 4.7 μ F 25V | C105 | 4130172 | 10 nF 10% 63V |
| C10 | 4130215 | 220 nF 20% 63V | C106 | 4200423 | 2.2 μ F 50V |
| <hr/> | | | | | |
| P1 | 7220114 | Connector 5/4 pol. | P4 | 7220114 | Connector 5/4 pol. |
| P2 | 7220145 | Connector 6/5 pol. | P5 | 7220182 | Connector 10/9 pol. |
| P3 | 7220144 | Connector 9/8 pol. | | | |
| <hr/> | | | | | |
| 22C13 | 4010060 | 22 nF -20+80% 40V | | | |

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

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



Radiodel Radio Part

| | | | |
|---------|---------|---------------------------------|-----------------------------|
| 0D1 | 8330119 | LED f/skalaviser | LED f/dial pointer |
| 0IL1 | 8230048 | Skalalys | Dial light |
| 0IL2 | 8230048 | Skalalys | Dial light |
| <hr/> | | | |
| 01Modul | 8050417 | FM-tuner | FM front end |
| <hr/> | | | |
| 02Modul | 8002637 | PCB - AM/FM/MPX | PCB - AM/FM/MPX |
| 0201 | 2775954 | Knap LW | Button LW |
| 0202 | 2770142 | Skalatræk | Dial drive |
| 0203 | 3015108 | Styr f/skalasnor | Guide f/dial cord |
| 0204 | 2724071 | Hjul | Wheel |
| 0205 | 2700039 | Tandhjul | Gear-wheel |
| | 7400287 | LW-MW omskifter | Switch LW-MW |
| | 2810153 | Fjeder f/skalasnor | Spring f/dial cord |
| | 3955035 | Skalasnor | Dial cord |
| <hr/> | | | |
| 03Modul | 8002638 | PCB - styrekredsløb | PCB - Control circuit |
| 0301 | 2775902 | Knap f/kontakt | Button f/switch |
| 0302 | 7400279 | Kontakt | Switch |
| 0303 | 2576162 | Afstandsstykke | Spacer |
| | 6141042 | PCB-skærm | PCB-screening |
| <hr/> | | | |
| 04Modul | 8002639 | PCB - P1-P4 | PCB - P1-P4 |
| | 7400280 | Kontakt | Switch |
| <hr/> | | | |
| 05Modul | 8002640 | PCB - FM preset | PCB - FM preset |
| <hr/> | | | |
| 06Modul | 8002641 | PCB - Sek. betjening | PCB - Sec. control |
| | 7400289 | Omskifter DOLBY/METAL/ MONO | Switch DOLBY/METAL/ MONO |
| | 2751000 | Medbringer f/skydepotentiometer | Catch f/slide potentiometer |
| <hr/> | | | |
| 07Modul | 8005128 | PCB - Pladespiller betj. | PCB - Record player control |
| | 7400280 | Kontakt | Switch |
| <hr/> | | | |
| 08Modul | 8002642 | PCB - Volumenkontrol | PCB - Volume |
| | 2700040 | Tandhjul f/volumen | Gear-wheel f/volume |
| <hr/> | | | |
| 3021 | 3430302 | Betjeningspanel | Operating panel |
| 3022 | 2775959 | Knapsæt | Set of buttons |
| 3023 | 2542632 | Vinkel | Bracket |
| 3024 | 3034063 | Låsestift | Locking ping |
| 3025 | 2818078 | Fjeder | Spring |
| 3026 | 6140043 | PCB | PCB |
| 3027 | 3370000 | Skalabaggrund | Dial back |
| 3028 | 3164525 | Dæksel f/preset | Cover f/preset |
| 3029 | 3191000 | Skalapanel | Dial panel |
| 3030 | 3370115 | Afmaskningsramme | Frame |
| 3031 | 3168386 | Holder | Housing |
| 3032 | 2775958 | Knap f/potentiometer | Slide f/potentiometer |
| 3033 | 2775957 | Knap f/omskifter | Slide f/switch |
| 3034 | 2700035 | Skyder f/volumen | Slide f/volume |
| 3035 | 2818055 | Fjeder | Spring |
| 3036 | 2530477 | Vinkel | Bracket |
| 3037 | 2854000 | Skalaviser | Dial pointer |
| 3038 | 2542633 | Vinkel | Bracket |
| 3039 | 2542631 | Vinkel | Bracket |
| 3040 | 2775956 | Knap f/volumen | Knob f/volume |
| 3041 | 3152346 | Styr | Guide |
| 3042 | 6141043 | PCB | PCB |
| 3043 | 2775959 | Knapsæt | Set of buttons |
| 3044 | 3430274 | Panel | Panel |

Chassis

09Modul 8004369 PCB - Forforst. og Dolby PCB - Pre-amplifier & Dolby

10Modul 8004370 PCB - Optageforst. og Bias Osc.PCB - Rec. ampl. & Bias osc.

| | | | |
|---------|---------|-------------------------|-----------------------|
| 11Modul | 8002643 | PCB - Udgangsførstærker | PCB - Power amplifier |
| | 3358194 | Køleprofil | Heat-zink |
| | 2542629 | Vinkel f/opspænding | Bracket f/assembly |

| | | | |
|---------|---------|-------------------------|---------------------------|
| 12Modul | 8002647 | PCB - Højtalerstikdåser | PCB - Loudspeaker sockets |
| | 7210425 | Stikdåse | Socket |

| | | | |
|---------|---------|---------------|---------------|
| 13Modul | 8002644 | PCB - 2 x 26V | PCB - 2 x 26V |
|---------|---------|---------------|---------------|

| | | | |
|---------|---------|------------|------------|
| 14Modul | 8002645 | PCB - 12 V | PCB - 12 V |
|---------|---------|------------|------------|

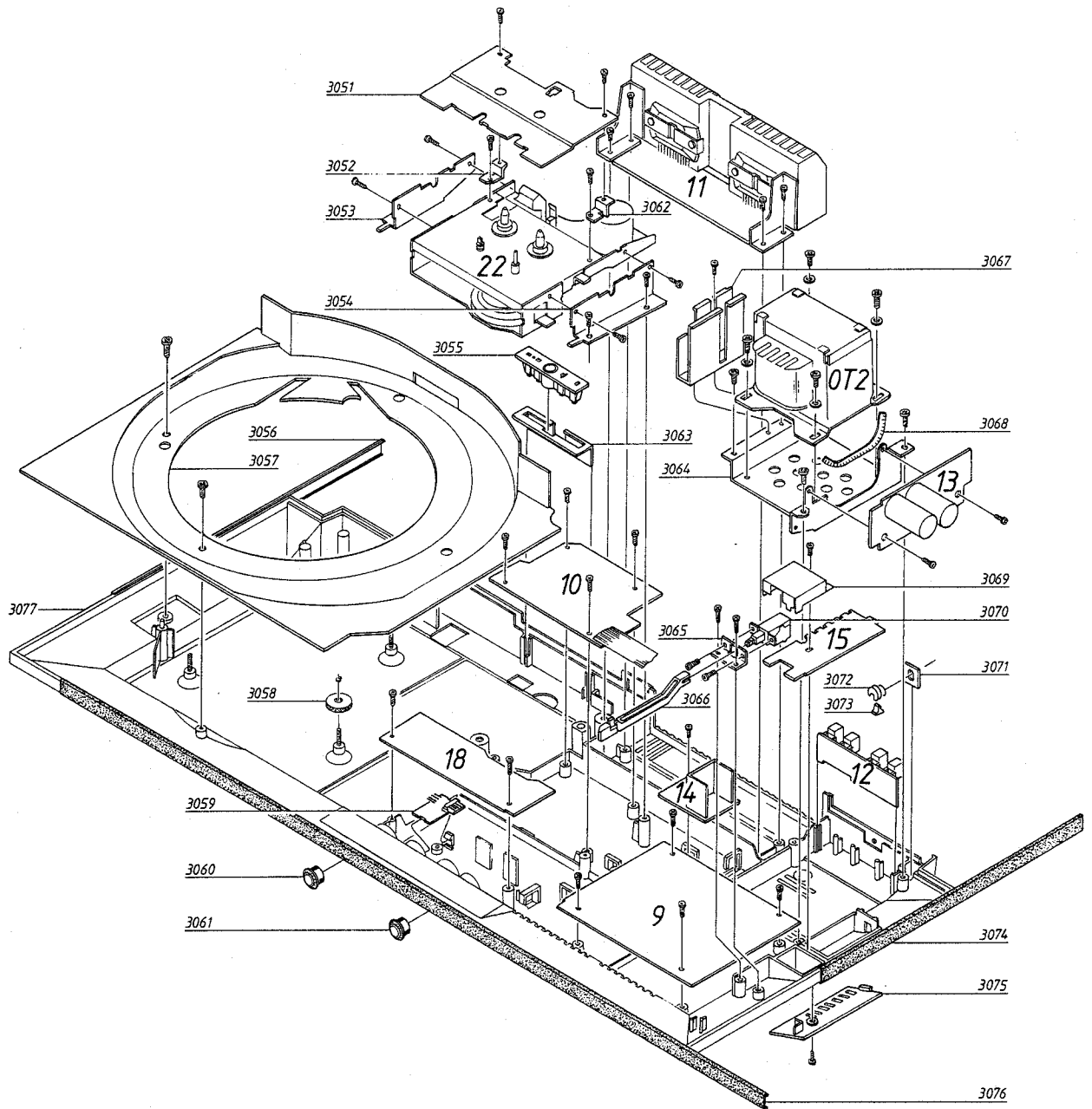
| | | | |
|---------|---------|-----------------|---------------|
| 15Modul | 8002646 | PCB - Sikringer | PCB - Fuses |
| | 7200038 | Sikringsholder | Holder f/fuse |

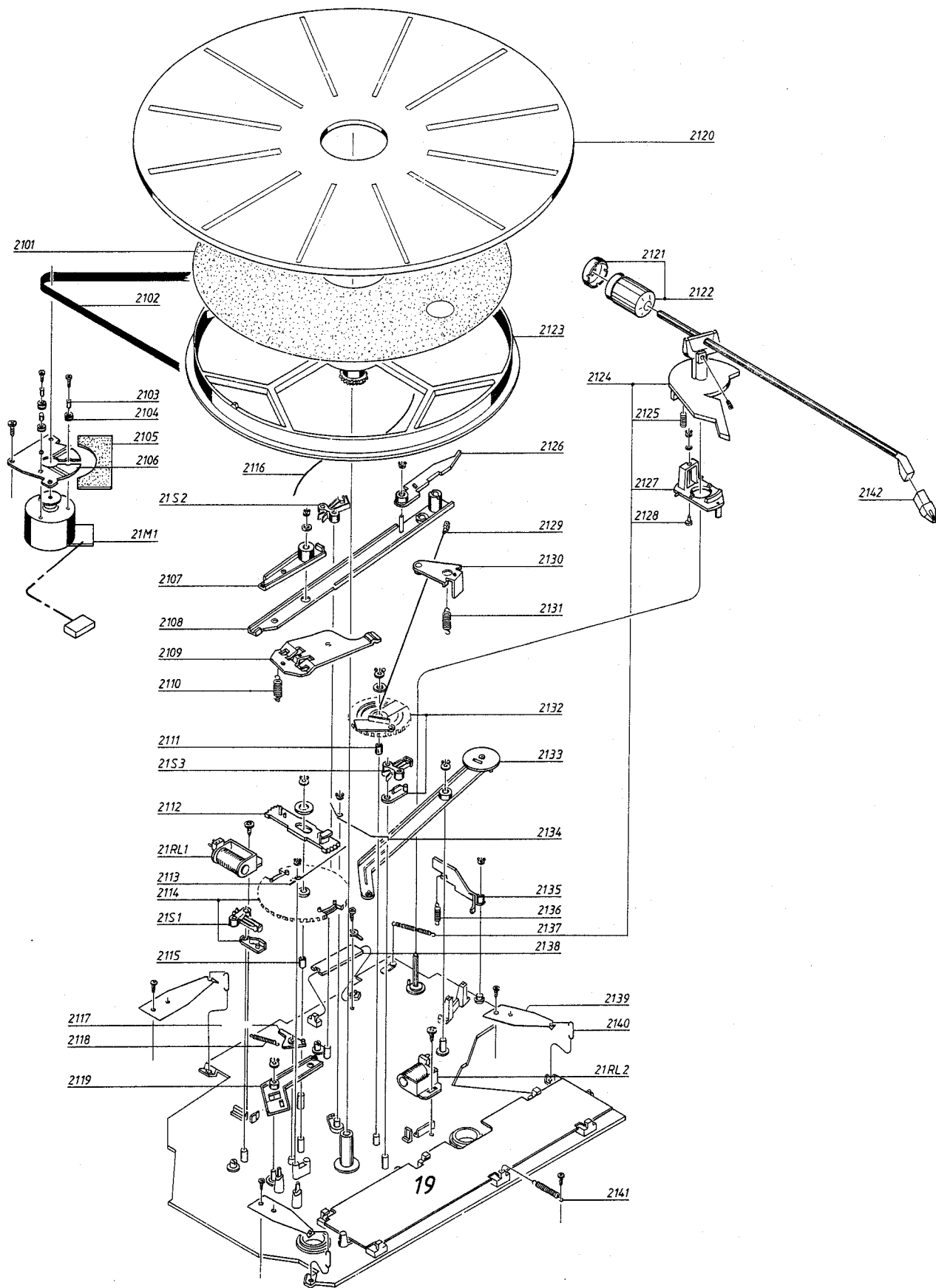
| | | | |
|---------|---------|---------------------------|--------------------------|
| 18Modul | 8002648 | PCB - Mic./Jack stikdåser | PCB - Mic./Jack-sockets |
| | 7210380 | Stikdåse, Mic. | Socket, Mic. |
| | 7210379 | Stikdåse, PHONES | Socket, PHONES |
| | 7210343 | Stikdåse 5 pol. DIN | Socket 5 pol. DIN |
| | 7400288 | Omskifter, HT | Switch, speakers |
| | 2775960 | Knap f/HT-omskifter | Button f/Speakers-switch |

| | | | |
|------|---------|-----------------------|---------------------|
| 3051 | 3168387 | Dæksel | Cover |
| 3052 | 2542628 | Vinkel, venstre | Bracket, left |
| 3053 | 2530475 | Ophæng, venstre | Bracket, left |
| 3054 | 2530476 | Ophæng, højre | Bracket, right |
| 3055 | 7210426 | Stikdåse panel | Socket panel |
| 3056 | 3413006 | Kabinetside, grå | Cabinet side, grey |
| 3057 | 3430240 | Dæksel | Cover |
| 3058 | 2382000 | Fingermøtrik | Milled nut |
| 3059 | 8002193 | PCB | PCB |
| 3060 | 2938182 | Møtrik f/jackstikdåse | Nut f/Jack-socket |
| 3061 | 2938182 | Møtrik f/jackstikdåse | Nut f/Jack-socket |
| 3062 | 2542627 | Vinkel, højre | Bracket, right |
| 3063 | 2530473 | Vinkel | Bracket |
| 3064 | 2542630 | Vinkel | Bracket |
| 3065 | 2530474 | Vinkel | Bracket |
| 3066 | 2775955 | Knap ON-OFF | Button ON-OFF |
| 3067 | 3152396 | Holder | Holder |
| 3068 | 3950296 | Isolationsstykke | Insulating piece |
| 3069 | 3170222 | Isolationsstykke | Insulating piece |
| 3070 | 7450075 | Netafbryder | Mains switch |
| 3071 | 3151220 | Holder | Holder |
| 3072 | 2641061 | Bøsning | Bushing |
| 3073 | 2641062 | Lås | Lock |
| 3074 | 3413002 | Kabinetside, grå | Cabinet side, grey |
| 3075 | 3164523 | Dæksel f/sikringer | Cover f/fuses |
| 3076 | 3413007 | Kabinet front, grå | Cabinet front, grey |
| 3077 | 3430304 | Bund | Bottom |

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

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





Pladespiller, svingchassis Record Player, Floating Chassis

19Modul 8005112 PCB - styrekredsløb

PCB - Control Circuit

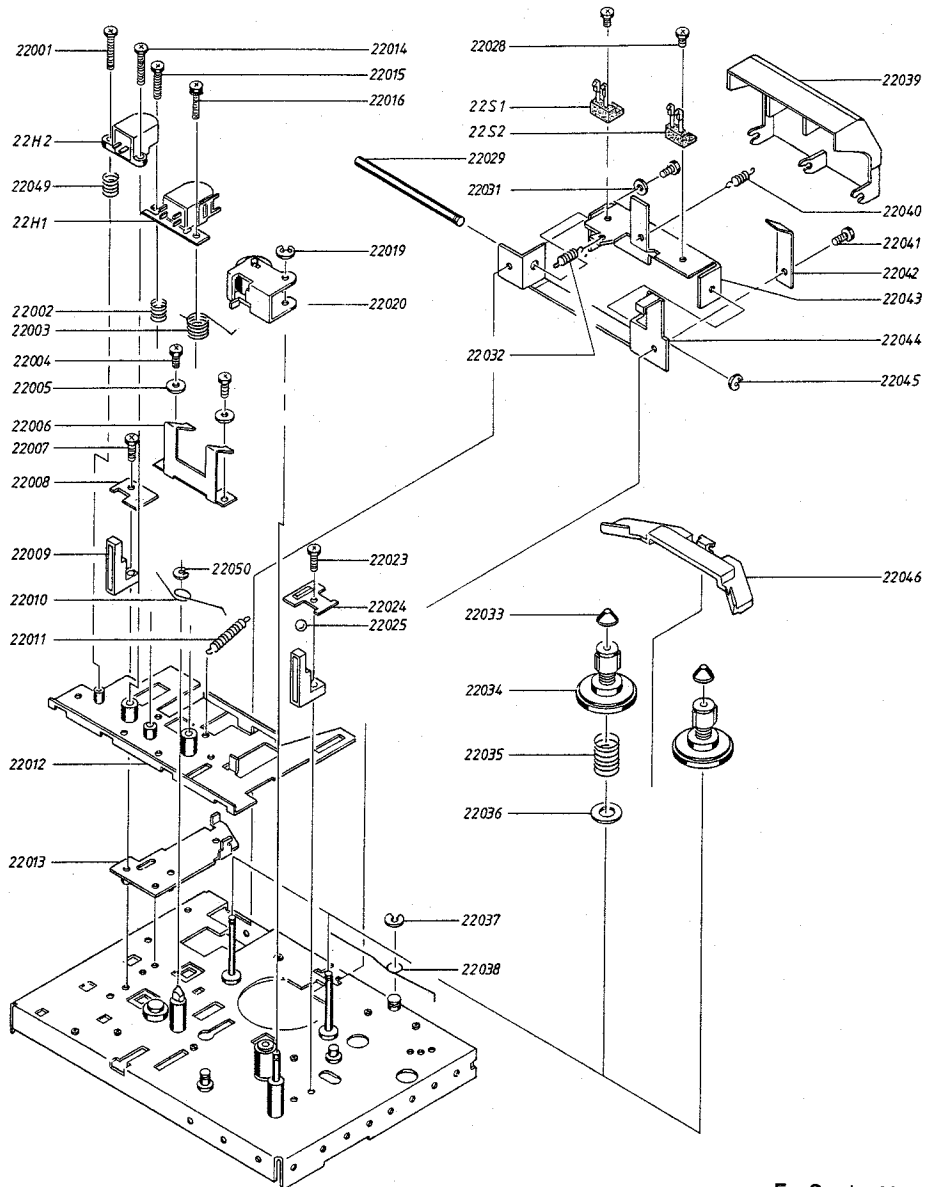
| | | | |
|------|---------|----------------------------|-----------------------------|
| 2101 | 2622361 | Dækskive | Cover disc |
| 2102 | 2732058 | Rem | Belt |
| 2103 | 2930074 | Afstandsør | Spacer |
| 2104 | 2938137 | Gummibøsning | Rubber bushing |
| 2105 | 3170209 | Isolationsstykke | Insulator |
| 2106 | 3124092 | Holder | Holder |
| 2107 | 2854084 | Arm | Lever |
| 2108 | 2853093 | Arm | Lever |
| | 3947139 | Isolationsstykke | Insulator |
| 2109 | 2854085 | Vippearm | Tilting lever |
| 2110 | 2810132 | Fjeder | Spring |
| 2111 | 2950098 | Bøsning | Bushing |
| 2112 | 2700027 | Tandsektion | Tooth-section |
| 2113 | 2819162 | Fjeder | Spring |
| 2114 | 3017022 | Kurvehjul | Camwheel |
| 2115 | 2950096 | Bøsning | Bushing |
| 2116 | 2819161 | Fjeder | Spring |
| 2117 | 3010019 | Arm | Lever |
| 2118 | 2810138 | Fjeder | Spring |
| 2119 | 2854086 | Arm | Lever |
| 2120 | 2726139 | Pladetailerken | Platter |
| 2121 | 2622353 | Skala f/nåletryk | Dial f/tracking force |
| 2122 | 3342088 | Kontravægt | Counterweight |
| 2123 | 2794092 | Svingring | Fly-wheel |
| 2124 | 2850127 | Pickup arm, komplet | Tonearm, assembled |
| | 2542626 | Transportsikring pickuparm | Transit protection f/tonarm |
| 2125 | 2812094 | Fjeder | Spring |
| 2126 | 2854088 | Arm | Lever |
| 2127 | 2627011 | Holder | Holder |
| 2128 | 2627012 | Justeretap | Adjustment pin |
| 2129 | 2570067 | Stang, samlet | Connecting rod, assembled |
| 2130 | 2542612 | Vippearm | Tilting lever |
| 2131 | 2810133 | Fjeder | Spring |
| 2132 | 3017021 | Kurvehjul | Camwheel |
| 2133 | 2852044 | Arm | Lever |
| 2134 | 2819163 | Fjeder | Spring |
| 2135 | 2542609 | Arm | Lever |
| 2136 | 2810090 | Fjeder | Spring |
| 2137 | 2810139 | Fjeder | Spring |
| 2138 | 6140008 | PCB | PCB |
| 2139 | 2815016 | Bladffeder | Leaf spring |
| 2140 | 2514035 | Krog f/ophæng | Suspension hook |
| 2141 | 2810140 | Fjeder | Spring |
| 2142 | 8954890 | Pickup MMC5-R | Pick-up MMC5-R |

| | | | |
|-------|---------|----------------|--------------|
| 21M1 | 8400119 | Motor | Motor |
| 21RL1 | 8020412 | Sugespole | Solenoid |
| 21RL2 | 8020412 | Sugespole | Solenoid |
| 21S1 | 7402081 | Mikroomskifter | Micro-switch |
| 21S2 | 7402081 | Mikroomskifter | Micro-switch |
| 21S3 | 7402081 | Mikroomskifter | Micro-switch |

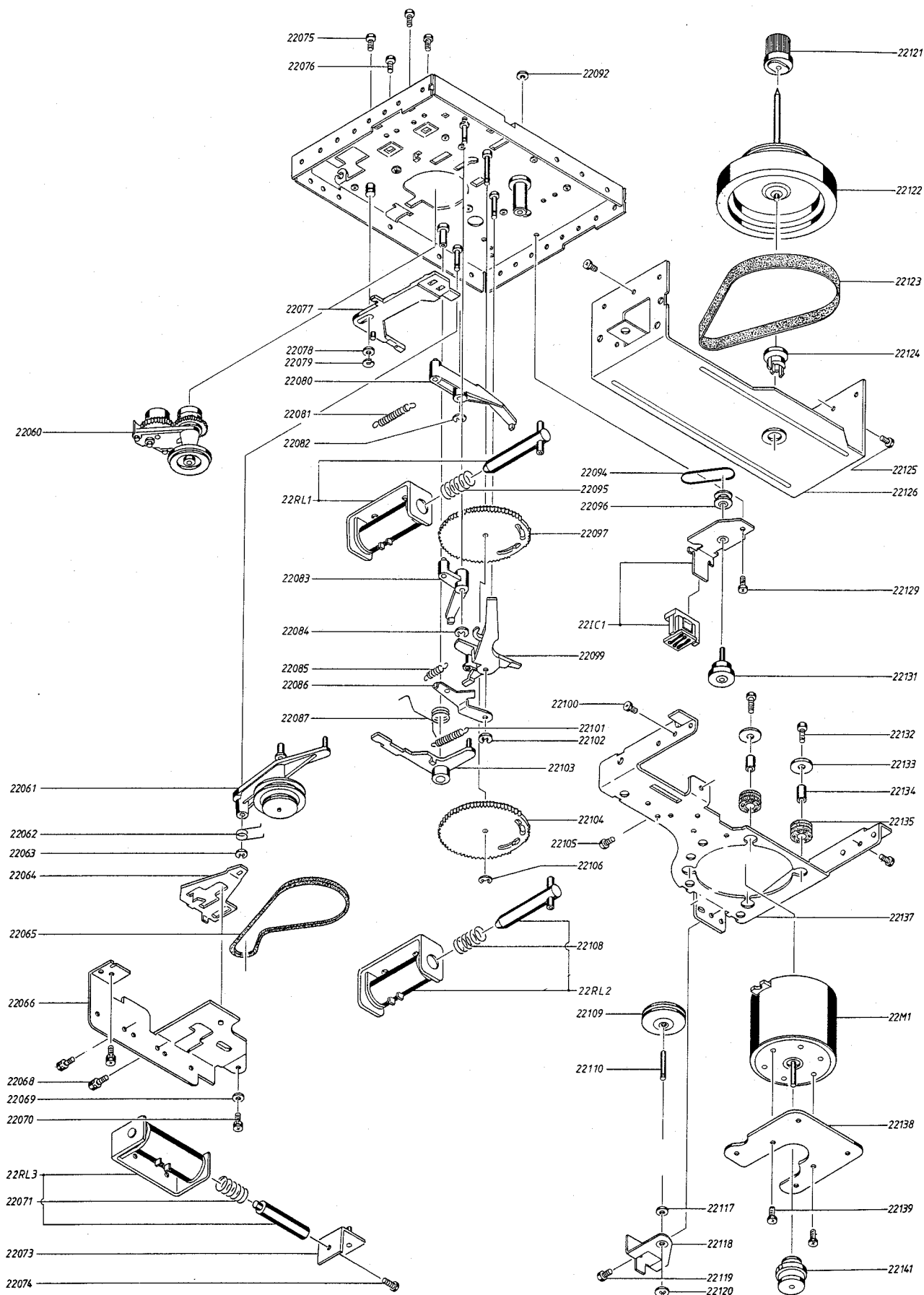
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel:- 01844-351694 Fax:- 01844-352554
 Email:- enquiries@mauritron.co.uk

CC-løbeværk
CC-Deck

| | | | |
|-------|---------|--------------------------|-------------------------|
| 22001 | 2034068 | Skrue 2 x 5 | Screw 2 x 5 |
| 22002 | 2812800 | Fjeder | Spring |
| 22003 | 2818000 | Fjeder | Spring |
| 22004 | 2036019 | Skrue 2,6 x 4 | Screw 2.6 x 4 |
| 22005 | 2622357 | Skive | Washer |
| 22006 | 2816281 | Bladfjeder | Leaf spring |
| 22007 | 2039050 | Skrue 2,6 x 6 | Screw 2.6 x 6 |
| 22008 | 2816280 | Bladfjeder | Leaf spring |
| 22009 | 3010000 | Styr | Guide |
| 22010 | 2819181 | Fjeder | Spring |
| 22011 | 2810146 | Fjeder | Spring |
| 22012 | 3112293 | Holder | Holder |
| 22013 | 3112186 | Vinkel | Bracket |
| 22014 | 2034063 | Skrue 2 x 5 | Screw 2 x 5 |
| 22015 | 2034068 | Skrue 2 x 5 | Screw 2 x 5 |
| 22016 | 2036042 | Skrue 2 x 5, sort | Screw 2 x 5, black |
| 22019 | 2390073 | E-ring 2,5 | E-ring 2.5 |
| 22020 | 2794099 | Trykrulle komplet | Thrust roller |
| 22023 | 2039050 | Skrue 2,6 x 6 | Screw 2.6 x 6 |
| 22024 | 2816207 | Bladfjeder | Leaf spring |
| 22025 | 2917020 | Kugle ø2 | Ball ø2 |
| 22028 | 2034067 | Skrue 2 x 4 | Screw 2 x 4 |
| 22029 | 2831000 | Aksel | Shaft |
| 22031 | 2622358 | Skive 3 | Washer 3 |
| 22032 | 2810148 | Fjeder | Spring |
| 22033 | 3164547 | Dæksel | Cover |
| 22034 | 2726002 | Spoletallerken | Supply reel |
| 22035 | 2812096 | Fjeder | Spring |
| 22036 | 2622343 | Skive | Washer |
| 22037 | 2390090 | E-ring 2,5 | E-ring 2.5 |
| 22038 | 2819183 | Fjeder | Spring |
| 22039 | 3164548 | Hus | Housing |
| 22040 | 2810149 | Fjeder | Spring |
| 22041 | 2039039 | Skrue 3 x 4 | Screw 3 x 4 |
| 22042 | 2816208 | Bladfjeder | Leaf spring |
| 22043 | 2548205 | Vinkel | Bracket |
| 22044 | 2548206 | Vinkel | Bracket |
| 22045 | 2390056 | E-ring 1,5 | E-ring 1.5 |
| 22046 | 2851134 | Bremsearm | Brake lever |
| 22049 | 2812000 | Fjeder | Spring |
| 22050 | 2390064 | E-ring 5 | E-ring 5 |
| <hr/> | | | |
| 22H1 | 8600072 | Tonehoved | Tape head |
| 22H2 | 8600073 | Slettehoved | Erase head |
| <hr/> | | | |
| 22S1 | 7400286 | Omskifter | Switch |
| 22S2 | 7400298 | Omskifter | Switch |
| <hr/> | | | |
| 22P2 | 6275123 | Ledning/slettehoved | Wires/Erase head |
| 22P6 | 6275101 | Ledning/tonehoved - hvid | Wires/Tape head - white |
| 22P7 | 6275099 | Ledning/tonehoved - rød | Wires/Tape head - red |



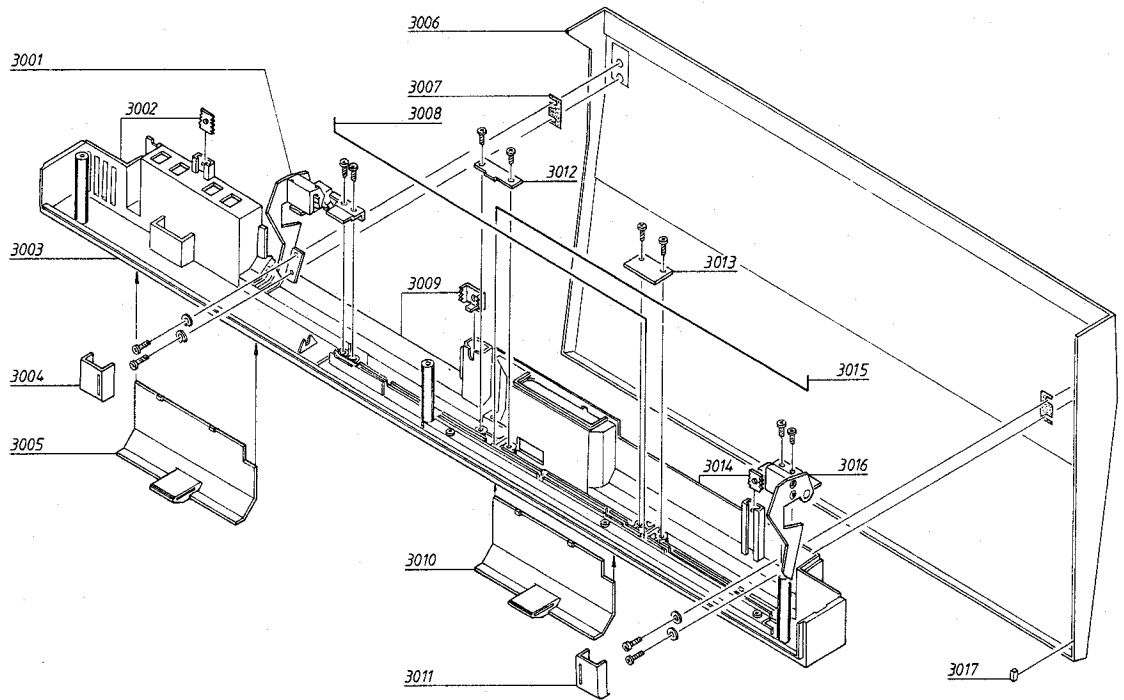
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk



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

| | | | |
|-------|---------|----------------------|-----------------------|
| 22060 | 2794098 | Kobling | Clutch |
| 22061 | 2750000 | Kobling | Clutch |
| 22062 | 2819182 | Fjeder | Spring |
| 22063 | 2390090 | E-ring 2,5 | E-ring 2.5 |
| 22064 | 3014005 | Arm | Arm |
| 22065 | 2732000 | Rem | Belt |
| 22066 | 2542620 | Vinkel | Bracket |
| 22068 | 2038063 | Skrue 3 x 5, sort | Screw 3 x 5, black |
| 22069 | 2622132 | Skive 2,8 | Washer 2.8 |
| 22070 | 2036022 | Skrue 2,6 x 5, sort | Screw 2.6 x 5, black |
| 22071 | 2812152 | Fjeder | Spring |
| 22073 | 2530466 | Vinkel | Bracket |
| 22074 | 2038063 | Skrue 3 x 5, sort | Screw 3 x 5, black |
| 22075 | 2039043 | Skrue 3 x 4 | Screw 3 x 4 |
| 22076 | 2039043 | Skrue 3 x 4 | Screw 3 x 4 |
| 22077 | 2851135 | Arm | Arm |
| 22078 | 2622293 | Skive | Washer |
| 22079 | 2390053 | E-ring 3 | E-ring 3 |
| 22080 | 2851136 | Arm | Arm |
| 22081 | 2810147 | Fjeder | Spring |
| 22082 | 2390073 | E-ring 2,5 | E-ring 2.5 |
| 22083 | 2851137 | Arm | Arm |
| 22084 | 2390073 | E-ring 2,5 | E-ring 2.5 |
| 22085 | 2810150 | Fjeder | Spring |
| 22086 | 2851131 | Arm | Arm |
| 22087 | 2819184 | Fjeder | Spring |
| 22092 | 2622296 | Skive | Washer |
| 22094 | 2732039 | Rem | Belt |
| 22095 | 2812097 | Fjeder | Spring |
| 22096 | 2724070 | Remskive | Pulley |
| 22097 | 2700037 | Kurvehjul | Cam-wheel |
| 22099 | 2851138 | Arm | Arm |
| 22100 | 2039049 | Skrue 3 x 5 | Screw 3 x 5 |
| 22101 | 2810151 | Fjeder | Spring |
| 22102 | 2390073 | E-ring 2,5 | E-ring 2.5 |
| 22103 | 2851133 | Arm | Arm |
| 22104 | 2700038 | Kurvehjul | Cam-wheel |
| 22105 | 2039049 | Skrue 3 x 5 | Screw 3 x 5 |
| 22106 | 2390073 | E-ring 2,5 | E-ring 2.5 |
| 22108 | 2812097 | Fjeder | Spring |
| 22109 | 2804000 | Remskive | Pulley |
| 22110 | 2831047 | Aksel | Shaft |
| 22117 | 2622299 | Skive 2,1 | Washer 2.1 |
| 22118 | 2530467 | Vinkel | Bracket |
| 22119 | 2036022 | Skrue 2,6 x 5, sort | Screw 2.6 x 5, black |
| 22120 | 2390056 | E-ring 1,5 | E-ring 1.5 |
| 22121 | 2700036 | Gearhjul | Gear-wheel |
| 22122 | 2794096 | Svinghjul | Fly-wheel |
| 22123 | 2732064 | Rem | Belt |
| 22124 | 2905078 | Bundleje | Bearing |
| 22125 | 2039049 | Skrue 3 x 5 | Screw 3 x 5 |
| 22126 | 3112295 | Vinkel | Bracket |
| 22129 | 2039049 | Skrue 3 x 5 | Screw 3 x 5 |
| 22131 | 3356044 | Magnet | Magnet |
| 22132 | 2036044 | Skrue 2,6 x 10, sort | Screw 2.6 x 10, black |
| 22133 | 2622282 | Skive 6,1 | Washer 6.1 |
| 22134 | 2932046 | Bøsning | Bushing |
| 22135 | 2932000 | Gummibøsning | Rubber bushing |
| 22137 | 3112294 | Vinkel | Bracket |
| 22138 | 3122054 | Motorophæng | Motor suspension |
| 22139 | 2036021 | Skrue 2,6 x 3 | Screw 2.6 x 3 |
| 22141 | 2722028 | Remskive | Pulley |
| <hr/> | | | |
| 22RL1 | 6840033 | Sugespole | Solenoid |
| 22RL2 | 6840033 | Sugespole | Solenoid |
| 22RL3 | 6840034 | Sugespole | Solenoid |
| 22IC1 | 8004007 | IC m/holder | IC w/holder |
| 22M1 | 8400000 | Motor | Motor |

Støvlåg Dust Cover



| | | | |
|------|---------|-------------------------|----------------------|
| 3001 | 3030080 | Hængsel, højre | Hinge, right |
| 3002 | 2389073 | Gevindstykke | Nut |
| 3003 | 3430303 | Bagstykke | Rear panel |
| 3004 | 3164522 | Dæksel, højre | Cover right |
| 3005 | 3164524 | Dæksel | Cover |
| 3006 | 3164526 | Støvlåg | Dust cover |
| 3007 | 2641107 | Spændestykke | Spacer |
| 3008 | 2819188 | Torsionsfjeder, højre | Torsionspring, right |
| 3009 | 2389074 | Gevindstykke | Nut |
| 3010 | 3164524 | Dæksel | Cover |
| 3011 | 3164402 | Dæksel, venstre | Cover, left |
| 3012 | 2641109 | Spændestykke | Clamp |
| 3013 | 2641108 | Spændestykke | Clamp |
| 3015 | 2819168 | Torsionsfjeder, venstre | Torsionspring, left |
| 3016 | 3030079 | Hængsel, venstre | Hinge, left |
| 3017 | 3035037 | Fod | Foot |

| Outlines | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|--|---------|--|---------|---------|---------|---------|
| Metric Dimensions | | | | | | | | | | | | |
| 2.3 | | | | | | | | | | | | 2390001 |
| M2.6 x 6 | 2036016 | | | | | | | | | | | |
| 2.9 | | | | | | | | | | | | 2624045 |
| M3 x 5 | 2039020 | | | | | | | | | | | |
| 3 x 5 self tapping | 2013098 | | | | | | | | | | | |
| M3 x 6 | 2039027 | | | | | | 2070035 | | | | | |
| 3 x 6 self tapping | 2013906 | | 2013200 | | | | | | | | | |
| M3 x 8 | 2039028 | | | | | | | | | | | |
| 3 x 9 self tapping | 2013104 | 2013080 | | | | | | | | | | |
| M3 x 10 | 2039030 | | | 2039038 | | | | | | | | |
| 3 x 12 self tapping | 2013032 | | | | | | | | | | | |
| 3 | | | | | | | | | | 2390088 | | |
| 3.2 | | | | | | | 2624007 | | | | | 2624013 |
| M4 x 6 | 2043020 | | | | | | | | | | | |
| 4 x 12 self tapping | | 2019204 | | | | | | | | | | |
| M4 x 27 Special | 2043029 | | | | | | | | | | | |
| 4 | | | | | | | | | | | 2390006 | |
| 4.1 | | | | | | | | | 2622338 | | | |
| 4.3 | | | | | | | | | 2622024 | | | |
| M4 | | | | | 2380016 | | | | | | | |

Ikke viste dele
Parts not shown

| | | |
|---------|----------------------------------|-----------------------------------|
| 3532159 | Diagramhæfte | Diagram folder |
| 3180994 | Mærkat f/bund SPEAKERS/ DOLBY | Label f/bottom SPEAKERS/ DOLBY |
| 3180995 | Mærkat f/bund 2421 (220V) | Label f/bottom 2421 (220V) |
| 3180996 | Mærkat f/bund 2422 (240V) | Label f/bottom 2422 (240V) |
| 3397517 | Emballagesæt | Set of packing |
| 3917072 | Skumklods f/PU-arm | Foam block f/tonearm |
| 3391752 | Yderæske | Outer carton |
| 6271115 | Netledning 2421/22 | Mains cord 2421/22 |
| 6271091 | Netledning 2425 | Mains cord 2425 |

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

JUSTERINGER, RADIO

AM-MF

Modtageren indstilles på f.eks. 1600 kHz.

Sweepgenerator indstilles til 468 kHz og tilsluttes antenneindgangen.

Oscilloskop tilsluttes 2TP4. 2L5 og 2L6 justeres til max. og symmetrisk MF kurve.

Med 2L7 justeres til max.

ADJUSTMENTS, RADIO

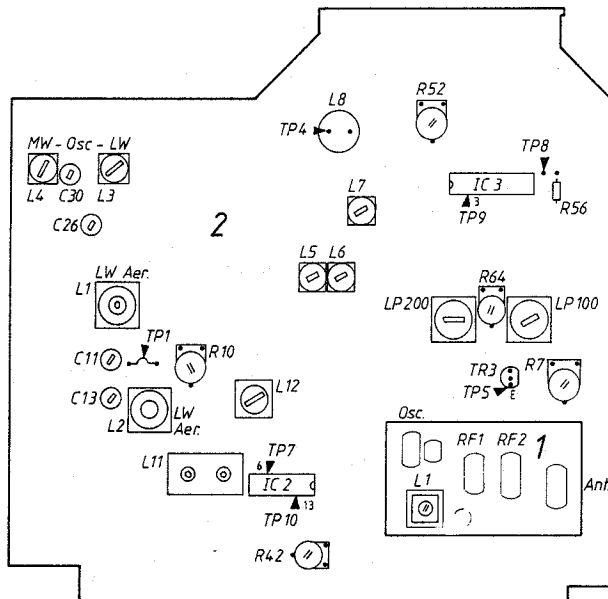
AM-IF

Set the receiver at, e.g., 1600 kHz.

Set the sweep generator at 468 kHz and connect to the aerial input.

Connect an oscilloscope to 2TP4. Adjust 2L5 and 2L6 to max. and symmetrical IF curve.

Adjust with 2L7 to max. output.

**MW oscillator og antennekreds**

Målesender tilsluttes antenneindgangen, via kunstantenne, og indstilles til 590 kHz mod. 30% 400 Hz.

Modtageren indstilles på 590 kHz.

Wattmeter eller AC meter tilsluttes udgangen.

Med 2L4 justeres oscillatoren på plads.

Med 2L2 justeres antennekredsen til max.

Modtageren og målesender indstilles til 1500 kHz.

Med 2C30 justeres oscillatoren på plads.

Med 2C13 justeres antennekredsen til max.

LW oscillator og antennekreds

Modtager og målesender indstilles til 150 kHz.

Med 2L3 justeres oscillatoren på plads.

Med 2L1 justeres antennekredsen til max. output.

Modtager og målesender indstilles til 350 kHz.

Med 2C26 justeres oscillatoren på plads.

Med 2C11 justeres antennekredsen til max. output.

MW Oscillator and Aerial Circuits

Connect a signal generator, via dummy aerial and set at 590 kHz mod. 30% 400 Hz.

Set the receiver at 590 kHz.

Connect a wattmeter or an AC meter to the output.

Adjust the oscillator dead on with 2L4.

Adjust the aerial circuit to max. with 2L2.

Set the receiver and the signal generator at 1500 kHz.

Adjust the oscillator dead on with 2C30.

Adjust the aerial circuit to max. with 2C13.

LW Oscillator and Aerial Circuit

Set the receiver and the signal generator at 150 kHz.

Adjust the oscillator dead on with 2L3.

Adjust the aerial circuit to max. output.

Adjust the receiver and the signal generator to 350 kHz.

Adjust the oscillator dead on with 2C26.

Adjust the aerial circuit to max. output with 2C11.

Afstemningsspænding (skalapasning)

FM målesender tilsluttes antenneindgangen. FM aktiveres.

Skydeomskifter sættes i stilling Mono (-AFC).

Skalaviseren drejes ud til mekanisk stop i højre side.

Målesenderen indstilles til 108,5 MHz.

Med 2R7 justeres, så modtagerfrekvensen også er 108,5 MHz.

Skalaviseren drejes til mekanisk stop i venstre side.

Målesenderen indstilles til 87,4 MHz.

Med 2R10 justeres, så modtagerfrekvensen også er 87,4 MHz.

Tuning Voltage (Dial Calibration)

Connect an FM signal generator to the aerial input. Activate FM.

Set the sliding switch in mono mode (-AFC).

Move the dial pointer to its mechanical right hand stop.

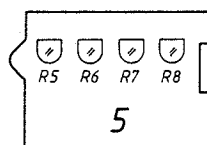
Set the signal generator at 108.5 MHz.

Adjust with 2R7 until the receiver frequency is also 108.5 MHz.

Move the dial pointer to its mechanical left-hand stop.

Set the signal generator at 87.4 MHz.

Adjust with 2R10 until the receiver frequency is also 87.4 MHz.



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

P1 aktiveres, skalaen for P1 drejes i minimum.

5R5 justeres til modtagerfrekvensen er 87,4 MHz.

P2 aktiveres, skalaen for P2 drejes i minimum.

5R6 justeres til modtagerfrekvensen er 87,4 MHz.

P3 aktiveres, skalaen for P3 drejes i minimum.

5R7 justeres til modtagerfrekvensen er 87,4 MHz.

P4 aktiveres, skalaen for P4 drejes i minimum.

5R8 justeres til modtagerfrekvensen er 87,4 MHz.

Activate P1; turn the P1 dial to min.

Adjust with 5R5 until the receiver frequency is 87.4 MHz.

Activate P2; turn the P2 dial to min.

Adjust with 5R6 until the receiver frequency is 87.4 MHz.

Activate P3; turn the P3 dial to min.

Adjust with 5R7 until the receiver frequency is 87.4 MHz.

Activate P4; turn the P4 dial to min.

Adjust with 5R8 until the receiver frequency is 87.4 MHz.

Tuner

Skala indstilles på 94 MHz.

Sweepgenerator tilsluttes antenneindgangen og indstilles til 94 MHz.

Oscilloscop tilsluttes til 2TP10.

Med 1ANT, 1RF1, 1RF2, 1L1 og 1osc. justeres til max. og symmetrisk MF kurve.

Det kontrolleres, at modtageren dækker frekvensområdet 87,5 MHz - 108 MHz.

Luftspolerne justeres ved at øge eller mindske afstanden mellem vindingerne.

Front End

Set the dial at 94 MHz.

Connect a sweep generator to the aerial input and set it to 94 MHz.

Connect an oscilloscope to 2TP10.

Adjust to max. output and symmetrical IF curve with 1ANT, 1RF1, 1RF2, 1L1 and 1 osc.

Check that the receiver covers the frequency range 87.5 - 108 Mhz.

The air coils are adjustable by increasing or decreasing the spacing between the windings.

MF og detektor

Skala og sweepgenerator indstilles på 94 MHz.

Oscilloscop tilsluttes via en RC probe til 2TP7.

Med spolekernerne i 2L11 justeres til max. og symmetrisk S-kurve.

Muting

Målesender tilsluttes antenneindgangen og indstilles til 97 MHz.

Skala indstilles til 97 MHz FM mono omsk. på auto.

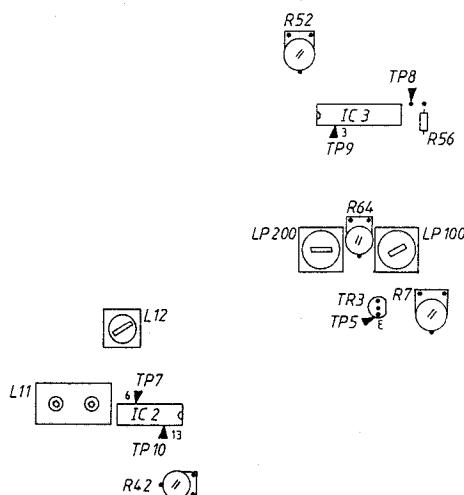
Med 2R42 justeres indtil muting træder i kraft ved 2µV.

114 kHz filter

Tonegenerator indstilles på 114 kHz og tilsluttes 2TP7.

LF voltmeter tilsluttes 2IC3 ben 3 (2TP9).

2L12 justeres til minimum udslag på LF voltmeter.

**Stereodekoder**

Modtager indstilles på en mono station.

2TP8 kortsluttes til 2R56.

Frekvenstæller tilsluttes 2TP8.

2R52 justeres til 19 kHz ±50 Hz.

Kanalseparation

FM stereo signal-generator tilsluttes antenneindgang.

Wattmeter eller AC voltmeter tilsluttes LF udgangen.

Med 2R64 justeres til max. kanal separation (bedre end 32 dB).

IF and Detector

Set dial and sweep generator to 94 MHz.

Connect an oscilloscope, via an RC probe, to 2TP7.

Adjust with the coil cores of 2L11 to max. output and symmetrical S-curve.

Muting

Connect the signal generator to the aerial input and set it at 97 MHz.

Set the dial at 97 MHz and the mono switch in auto mode.

Adjust with 2R42 until muting occurs at 2 µV.

114 kHz Filter

Set an audio oscillator to 114 kHz and connect it to 2TP7.

Connect an AF voltmeter to pin 3 on 2IC3 (2TP9).

Adjust with 2L12 until min. deflection on the AF voltmeter.

Stereo Decoder

Tune the receiver to a mono station.

Short-circuit 2TP8 to 2R56.

Connect a frequency counter to 2TP8.

Adjust 2R52 until a reading of 19 kHz ±50 Hz is obtained.

Channel Separation

Connect a FM stereo signal generator to the aerial input.

Connect a wattmeter or an AC voltmeter to the AF output.

Adjust with 2R64 for max. channel separation (better than 32 dB).

JUSTERINGER BÅNDOPTAGER

ADJUSTMENTS, TAPE RECORDER

ELEKTRISKE JUSTERINGER

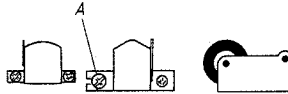
ELECTRICAL ADJUSTMENTS

Henvisninger er for højre kanal (henvisningerne i parentes er for venstre kanal). Elektriske justeringer foretages med TAPE omskifter i stilling AUTO, og uden DOLBY NR hvis ikke andet er nævnt.

The instructions refer to the right-hand channel (those in parentheses refer to the left-hand channel). Make the electrical adjustments with the TAPE switch in AUTO mode and without DOLBY NR activated, if not otherwise instructed.

Azimuth

Azimuth



Tonehoved og slettehoved afmagnetiseres.

Degauss tape head and erases head.

LF voltmeter tilsluttes 9TP1 (9TP2).

Connect an AF voltmeter to 9TP1 (9TP2).

Azimuthbånd 6780036 ilægges.

Load azimuth tape 6780036.

Play aktiveres.

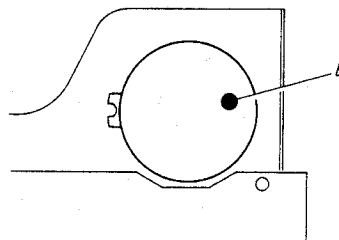
Activate Play.

Skruen A justeres til max. og til ens output for højre og venstre kanal (middelværdi 9TP1 (9TP2)).

Adjust the screw A until max. and equal outputs are obtained in both right-hand and left-hand channels (mean value 9TP1 (9TP2)).

Hastighed

Speed



Wow bånd 6780037 ilægges.

Load wow tape 6780037.

Med potentiometer B i motoren justeres til korrekt hastighed aflæst på et wow-meters driftmeter i 9TP1.

Adjust with potentiometer B in the motor for correct speed as read on the drift meter of a wow meter in 9TP1.

Justeringen foretages midt på båndet.

Make this adjustment in a mid-tape position.

Gengiveniveau

Playback Level

Justering af gengiveniveau er her beskrevet efter to normbånd.

The explanations for adjustments of playback level apply in this case to two types of level tapes.

1. DIN standard, 250 pWb mm.
2. Dolby level, 200 pWb mm.

1. DIN standard, 250 pWb mm.
2. Dolby level, 200 pWb mm.

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

1. Pegel bånd 6780035 ilægges. LF voltmeter tilsluttes 9TP1 (9TP2).

9R114 (9R214) justeres til der måles 660 millivolt i 9TP1 (9TP2).

2. Dolby level calibration bånd MTT-150R ilægges. LF voltmeter tilsluttes 9TP1 (9TP2).

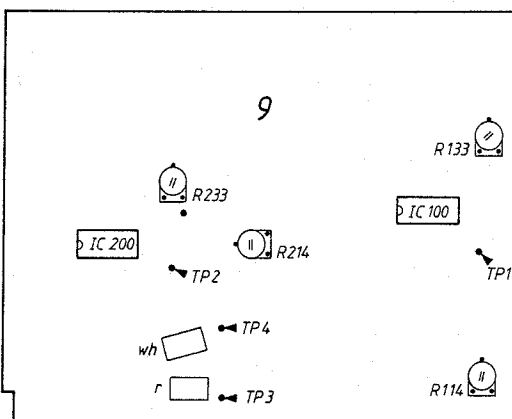
9R114 (9R214) justeres til der måles 580 millivolt i 9TP1 (9TP2).

1. Load level tape 6780035. Connect an AF voltmeter to 9TP1 (9TP2).

Adjust with 9R114 (9R214) until a reading of 660 mV is obtained in 9TP1 (9TP2).

2. Load Dolby level calibration tape MTT-150R. Connect an AF voltmeter to 9TP1 (9TP2).

Adjust with 9R114 (9R214) until a reading of 580 mV is obtained in 9TP1 (9TP2).



PPM

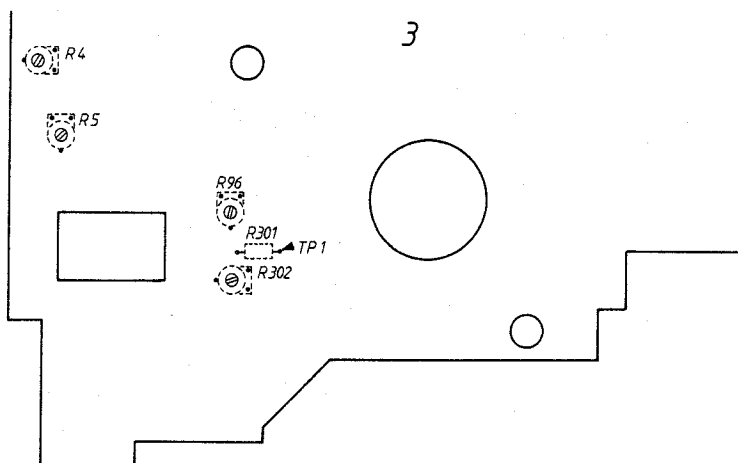
Tonegenerator tilsluttes tape copy indgangen og indstilles til at afgive 200 mV 333 Hz.

Rec. pause aktiveres, og rec. potentiometeret indstilles til der måles 580 mV i 9TP1 (9TP2).

PPM

Connect an audio oscillator to the tape copy input and set it to yield 220 mV 333 Hz.

Activate Rec. pause and adjust the record potentiometer until a reading of 580 mV is obtained in 9TP1 (9TP2).



3R5 justeres til LED'en for 0 dB netop lyser.

Tonegenerator afbrydes.

3R4 justeres til LED'en for -20 dB netop ikke lyser.

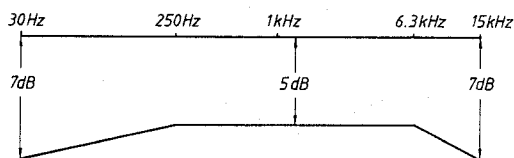
Adjust with 3R5 until the LED for 0 dB just starts glowing.

Disconnect the audio oscillator.

Adjust with 3R4 until the LED for -20 dB just ceases to glow.

Gengive frekvensgang

Playback Frequency Curve



Gengivefrekvensgang afprøves med testbånd 6780056 til at ligge indenfor ovenstående ramme målt i 9TP1 (9TP2).

Test the playback frequency curve with test tape 6780056, and it shall be within the above limits as measured in 9TP1 (9TP2).

Bias oscillator

Frekvenstæller eller oscilloskop tilsluttes over slettehovedet.

Bias Oscillator

Connect a frequency counter or an oscilloscope across the erase head.

Rec. pause aktiveres.

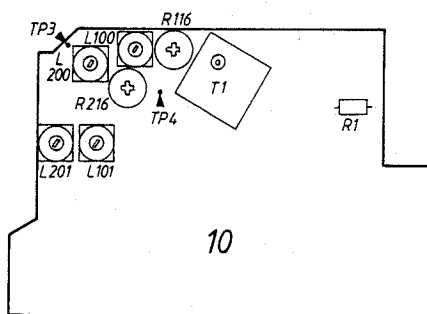
Activate Rec. pause.

Det kontrolleres at frekvensen er 105 kHz \pm 3 kHz.

Check that the frequency is 105 kHz \pm 3 kHz.

Eventuel justering foretages med kernen i 10T1.

Adjust, if necessary, with the core in 10T1.



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

Bias filter

Sæt tape omskifter i stilling metal.

Bias Filter

Set the tape switch in MET mode.

Sæt record level potentiometer på 0.

Set the record level potentiometer at 0.

Rec. pause aktiveres.

Activate Rec. pause.

10L100 (10L200) justeres til minimum udslag målt med LF-voltmeter i 10TP4 (10TP3).

Adjust 10L100 (10L200) until min. deflection on an AF voltmeter in 10TP4 (10TP3).

Optagehæv

Bias oscillatoren stoppes ved at afbryde 10R1.

Record Lift

Stop the bias oscillator by disconnecting 10R1.

Sæt tape omskifter i stilling AUTO.

Set the tape switch in AUTO mode.

CrO₂ bånd ilægges.

Load a CrO₂ tape.

Rec. pause aktiveres.

Activate Rec. pause.

Tonegenerator tilsluttes tape copy indgangen, og indstilles til at afgive 333 Hz i 1 volt området.

Connect an audio oscillator to the tape copy input and set it to yield 333 Hz in the 1 V range.

Record potentiometer indstilles til der måles 3 mV med LF voltmeter i 9TP3 (9TP4).

Adjust the record potentiometer until a reading on the AF voltmeter of 3 mV is obtained in 9TP3 (9TP4).

Tonegenerator indstilles til 10 kHz.

Set the audio oscillator at 10 kHz.

10L101 (10L201) justeres til der måles 7 mV i 9TP5 (9TP4).

Bias oscillatoren startes.

Bias

Fe₂O₃ bånd ilægges (B&O norm bånd 6780067).

Sæt tape omskifter i stilling AUTO.

Record pause aktiveres.

Record level potentiometer sættes på 0.

Adjust 10L101 (10L201) until a reading of 7 mV is obtained in 9TP3 (9TP4).

Start the bias oscillator.

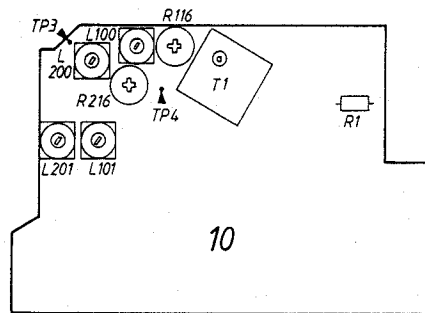
Bias

Load tape Fe₂O₃ (Bang & Olufsen's standard tape 6780067).

Set the tape switch in AUTO mode.

Activate Rec. pause.

Set the record level potentiometer at 0.



10R116 (10R216) justeres til der måles 12 mV i 9TP3 (9TP4) med LF voltmeter.

CrO₂ bånd ilægges (B&O norm bånd 6780066).

Kontroller at spændingen i 9TP3 (9TP4) nu er ca. 20 mV.

Sæt omskifter i MET.

Metal bånd ilægges (B&O norm bånd 6780085).

Kontroller at spændingen i 9TP3 (9TP4) nu er ca. 35 mV.

Adjust with 10R116 (10R216) until a reading of 12 mV is obtained in 9TP3 (9TP4) on the AF voltmeter.

Load CrO₂ tape (Bang & Olufsen's standard tape 6780066).

Check that the voltage in 9TP3 (9TP4) is now approx. 20 mV.

Set the tape switch in MET mode.

Load metal tape (Bang & Olufsen's standard tape 6780085).

Check that the voltage in 9TP3 (9TP4) is now approx. 35 mV.

Optagestrøm CrO₂

CrO₂ normbånd ilægges (6780066).

Sæt tape omskifter i stilling AUTO.

Tonegenerator tilsluttes TAPE-COPY indgangen og indstilles til 333 Hz 1 V.

Record pause aktiveres.

Record level potentiometeret indstilles til der måles 580 mV med LF voltmeter i 9TP1 (9TP2).

Ved henholdsvis at optage og gengive 333 Hz justeres 9R123 (9R233) til der måles 580 mV i 9TP1 (9TP2) både ved optagelse og gengive.

Recording Current CrO₂

Load CrO₂ tape (6780066).

Set the tape switch in AUTO mode.

Connect an audio oscillator to the TAPE-COPY input and adjust it to yield 333 Hz 1 V.

Activate Rec. pause.

Adjust the record level potentiometer until a reading of 580 mV is obtained on an AF voltmeter in 9TP1 (9TP2).

Adjust 9R133 (9R233), while alternately recording and playing back 333 Hz until a reading of 580 mV is obtained in 9TP1 (9TP2) both during recording and playing back.

Fe₂O₃ norm bånd ilægges (6780067).

Kontroller at der måles 580 mV ±1,5 dB i 9TP1 (9TP2) ved gengivelse.

Sæt tape omskifter i stilling MET.

Metal norm bånd ilægges (6780085).

Kontroller at der måles 580 mV ±1,5 dB i 9TP1 (9TP2) ved gengivelse.

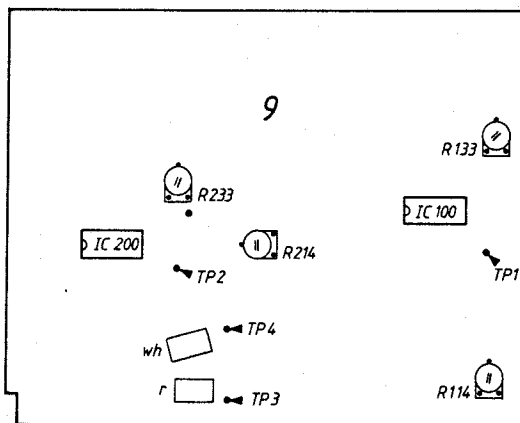
Load Fe₂O₃ standard tape (6780067).

Check that during playback a reading of 580 mV ±1.5 dB is obtained in 9TP1 (9TP2).

Set the tape switch in MET mode.

Load metal standard tape (6780085).

Check that during playback a reading of 580 mV ±1.5 dB is obtained in 9TP1 (9TP2).



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

Frekvensgangkontrol

333 Hz, 5 kHz og 15 kHz indspilles ved et optageniveau på -30 dB under 0 dB VU (0 dB VU = 580 mV i 9TP1 (9TP2)).

Ved gengivelse tolereres niveauforskelle på 3 dB i hver kanal, målt i 9TP1 (9TP2).

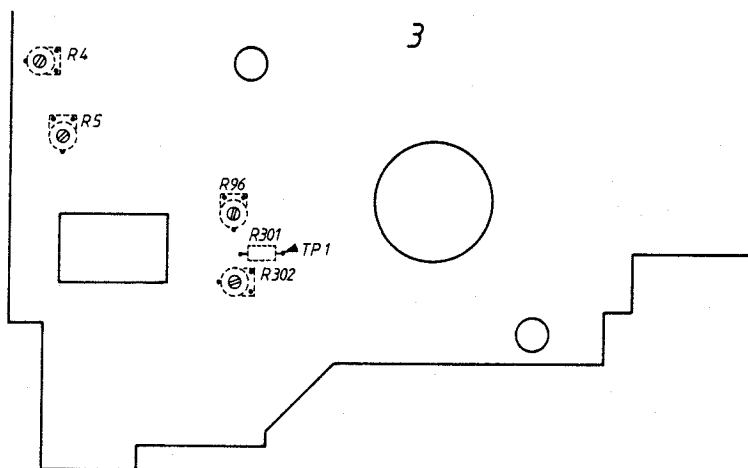
Next

Frequency Curve Check

Record 333 Hz, 5 kHz and 15 kHz at a recording level of -30 dB below 0 dB VU (0 dB VU = 580 mV in 9TP1 (9TP2)).

During playback a level difference of 3 dB is tolerated in either channel, as measured in 9TP1 (9TP2).

Next



Følsomhed

Tonegenerator indstilles til 333 Hz og tilsluttes tape copy indgangen.

Record pause aktiveres.

Record potentiometrene indstilles, til der måles 580 mV i 9TP1 (9TP2).

Sensitivity

Set the audio oscillator at 333 Hz and connect it to the tape copy input.

Activate Rec. pause.

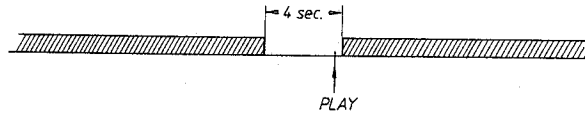
Adjust the record potentiometers until a reading of 580 mV is obtained in 9TP1 (9TP2).

Signalet dæmpes 24 dB (36 mV i 9TP1 (9TP2)).

Med 3R302 justeres til 32 mV i 3TP1.

Attenuate the signal by 24 dB. (36 mV in 9TP1 (9TP2)).

Adjust with 3R302 until a reading of 32 mV is obtained in 3TP1.



Pause

333 Hz indspilles til 0 VU på sidste halvdel af båndet.

Record potentiometret stilles på 0.

Der slettes et stykke på 4 sek. midt på det indspillede.

Båndoptageren stilles i stilling PLAY, og NEXT tasten aktiveres.

3R96 justeres således, at apparatet lige netop går i stilling PLAY ved pausen på 4 sek. (4 sek. pause = ca. midterstilling på 3R96).

Pause

Record 333 Hz to 0 VU on the latter half of the tape.

Set the record potentiometer at 0.

Erase a 4-second section somewhere in the middle of the recording.

Set the tape recorder in PLAY mode and activate the NEXT key.

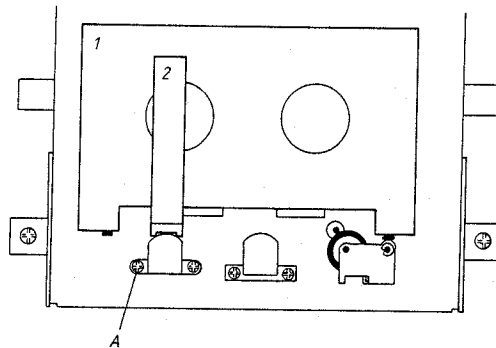
Adjust 3R96 so that the tape recorder just goes into PLAY mode at the 4-second pause (4-second pause = near the mid-setting on 3R96).

MEKANISKE JUSTERINGER

Højde, tonehoveder

MECHANICAL ADJUSTMENTS

Height, Tape Heads



Højde slettehoved justering foretages med justerværktøj 1 og 2 fra justereværktøjssæt 3624020.

Justerværktøj lægges i kassetteholderen som vist.

Tonehovedbroen presses forsigtigt ind mod værktøj 2.

Med skruen A justeres til båndstyret går ind over værktøj 2.

Højden på tonehovedet kontrolleres ligeledes med værktøj 2.

Erase head adjustments are made by means of the adjustment tools 1 and 2 of the adjustment tool kit 3624020.

Place the adjustment tool in the cassette holder as shown.

Press the tape head bridge carefully until it touches tool 2.

Adjust with the screw A until the tape guide just starts to cover tool 2.

The tape head height is also controlled with tool 2.

Der kan korrigeres for højdefejl v.h.a. skiven under opspændingerne til hovederne.

Height displacements can be rectified by means of the washer under the head fixtures.

Følgende skiver kan benyttes:

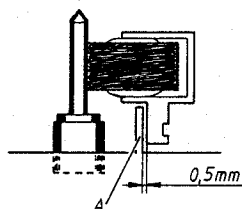
The following washers can be used:

2624052 0,1 mm
2624053 0,2 mm
2624054 0,3 mm

2624052 0.1 mm
2624053 0.2 mm
2624054 0.3 mm

Frigang trykrulle

Thrust Roller Clearance



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

Tonehovedbroen trykkes i bund.

Press the tape head bridge until it bottoms.

Afstanden mellem tappen A på tonehovedbroen og trykrullearmen skal da være ca. 0,5 mm.

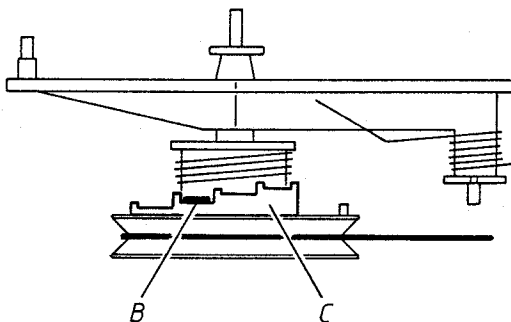
The clearance between the pin A on the tape head bridge and the thrust roller arm should now be approx. 0.5 mm.

Justering foretages ved at bukke tappen A.

Make this adjustment by bending the pin A.

Opsamlemoment

Take-up Momentum



Opsamlekoblingen position 22061 afmonteres.

Remove the take-up clutch 22061.

Justering foretages med messingringen B. Opsamlemomentet skal ligge indenfor 30-80 p/cm.

Make the adjustment with the brass ring B. The take-up momentum shall be in the range 30-80 p/cm.

Er momentet for lavt, trækkes messingringen B op fra remskiven og drejes op ad trappetrinene C.

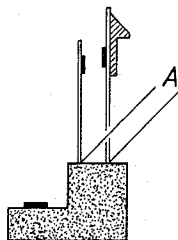
In case the momentum is too low, pull the brass ring B away from the pulley and turn it up the steps C.

Er momentet for højt, drejes messingringen ned ad trappetrinene.

In case the momentum is too high, turn the brass ring down the steps.

Mikroswitche

Micro-Switches



De tre mikroswitche på løbeværkets bagkant kan justeres til sikkert skift, ved ilægning og udtagning af en kassette, ved at bukke switchene forsigtigt i punkterne A.

The three micro-switches at the rear edge of the train drive can be adjusted to reliable switching during cassette loading and unloading by carefully bending the switches at the points A.

Play sugespole

Når ankeret på 22RL1 trykkes i bund, skal det øverste kurvehjul 22097 gå i indgreb; sker dette ikke foretages følgende justering:

Skruerne A løsnes, og sugespolen 22RL1 trækkes frem i pilen C's retning.

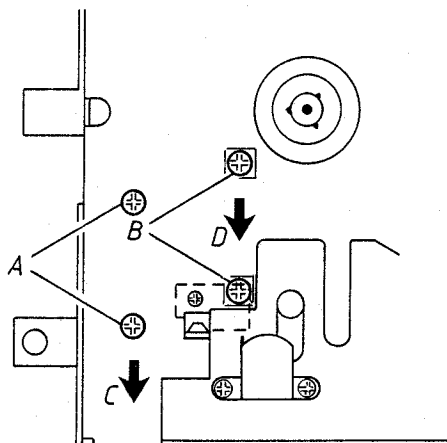
Sugespolen holdes fast, og ankeret trykkes i bund, derefter trækkes sugespolen forsigtigt tilbage indtil det øverste kurvehjul 22097 går i indgreb.

Play Solenoid

When the armature in 22RL1 is pressed downwards until it bottoms, the top camwheel 22097 shall engage; if this does not happen, make the following adjustments:

Loosen the screws A and pull the solenoid 22RL1 forwards in the direction of the arrow C.

Hold the solenoid firmly while pressing the armature rearwards until the top camwheel 22097 engages.



Wind sugespole

Når ankeret på 22RL2 trykkes i bund, skal det nederste kurvehjul 22104 gå i indgreb; sker dette ikke foretages følgende justering:

Skruerne B løsnes, og sugespolen 22RL2 trækkes frem i pilen D's retning.

Sugespolen holdes fast, og ankeret trykkes i bund, derefter trækkes sugespolen forsigtigt tilbage indtil det nederste kurvehjul 22104 går i indgreb.

Wind Solenoid

When the armature in 22RL2 is pressed downwards until it bottoms, the lower camwheel 22104 shall engage; if this does not happen, make the following adjustments:

Loosen the screws B and pull the solenoid 22RL2 forwards in the direction of the arrow D.

Hold the solenoid firmly while pressing the armature rearwards until the bottom camwheel 22104 engages.

JUSTERINGER PLADESPILLER

De 3 transportmøtrikker løsnes.

Hastighed

33 omdr./min. skal justeres først. Justeringen foretages med 19R14.

45 omdr./min. justeres med 19R12.

Hastigheden kan kontrolleres på to måder:

1. Med stroboskive og en lampe tilsluttet lysnettet. Denne kontrol giver en unøjagtighed på ca. 2%, da netfrekvensen på 50 Hz afgiver ca. ± 1 Hz.
2. Med stroboskive og stroboskoplampe. Denne kontrol giver en nøjagtighed, som svarer til stroboskoplampens tolerance, hvilket normalt er betydeligt bedre end netfrekvensen.

ADJUSTMENTS, RECORD PLAYER

Loosen the 3 shipment nuts.

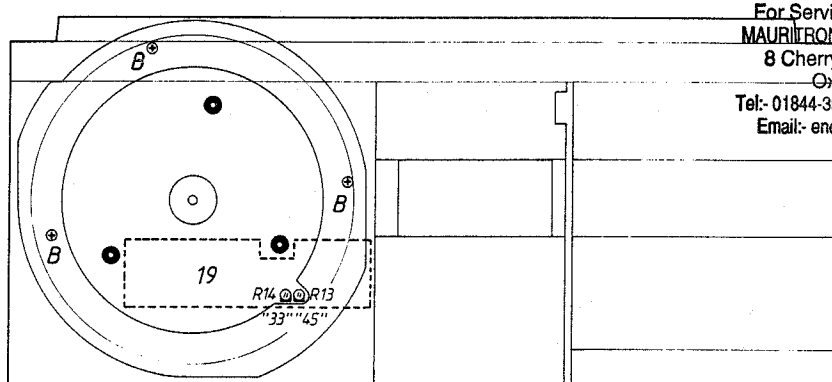
Speed

First adjust 33 r.p.m. Make the adjustment with 19R14.

Next adjust 45 r.p.m. with 19R12.

The speed can be checked in two ways:

1. With a stroboscopic disc and a lamp connected to the electric mains. This check will result in an inaccuracy of approx. 2% since the 50 Hz mains frequency fluctuates approx. ± 1 Hz.
2. With a stroboscopic disc and a stroboscopic lamp. This check will result in the same accuracy as the tolerance of the stroboscopic lamp which is normally much closer than that of the electric mains.

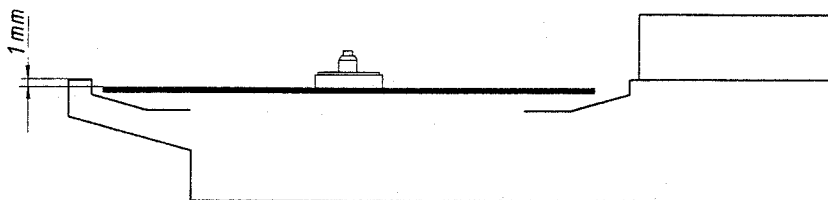


For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel:- 01844-351694 Fax:- 01844-352554
 Email:- enquiries@mauritron.co.uk

MEKANISKE JUSTERINGER

Ved mekaniske justeringer bør apparatet ikke være tilsluttet netspænding.

Værk højde



Værk højden justeres med skruberne B indtil overkanten af pladetallerkenen er 1 mm under overkanten af chassiset hele vejen rundt.

MECHANICAL ADJUSTMENTS

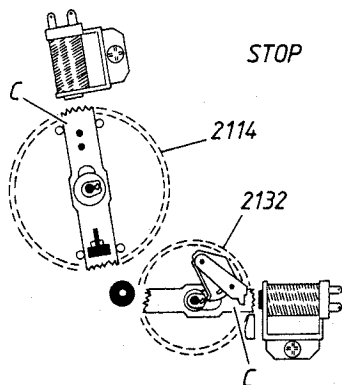
The set should not be connected to the electric mains during the mechanical adjustments.

Turntable Height

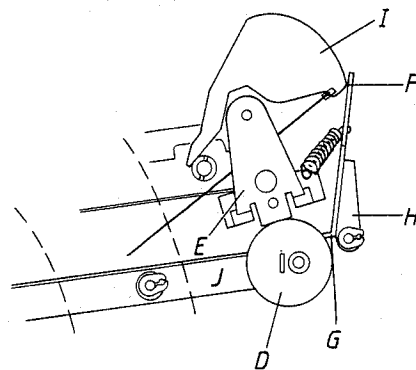
Adjust with the screws B the turntable height until the platter topside is 1 mm below the top edge of the chassis all the way round.

Pick-up arm hævs/sænks

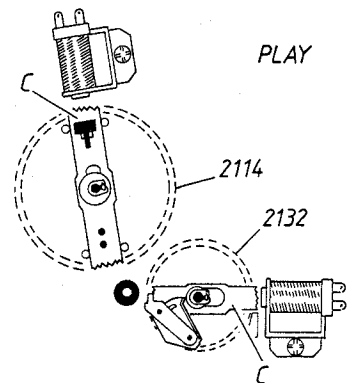
De to kurvehjul (pos. nr. 2114 og 2132) kan aktiveres ved at skubbe den tværgående midterarm C ind mod centrum og derefter dreje svingringen.



STOP

**Tonearm Raising/Lowering**

The two camwheels 2114 and 2132 can be activated by pushing the traversing centre arm C towards the centre and then turn the fly-wheel.



PLAY

Kurvehjulet 2132 stilles i stilling STOP.

Eksentrik D drejes forsigtigt indtil den netop berører vippen E, således at armen J er fri for slør.

Kurvehjulet 2132 stilles i stilling PLAY.

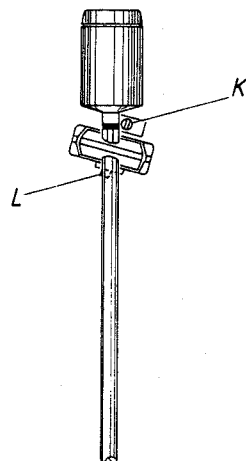
Afstanden mellem armen H og pick-uparmsholderen I skal være 1 mm i punktet F. Er afstanden større eller mindre end 1 mm, bukkes armen H i punktet G.

Set the camwheel 2132 in its stop position.

Turn the eccentric disc D carefully until it just is touching the lever E and the arm J is free of slack.

Set the camwheel 2132 in play mode.

The distance between the arm H and the tonearm holder I shall be 1 mm at the point F. Bend the arm H at the point G, if the distance is smaller or greater than 1 mm.

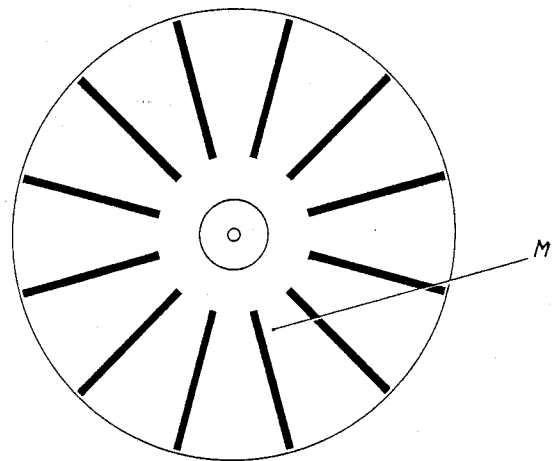
Pick-up højde

Eksentrik K drejes mod uret til stop.

Kontravægten stilles 0,5 g under balancepunktet.

Kurvehjulet 2132 stilles i stilling STOP.

Pick-up armen føres ind over den inderste del af pladetallerkenen (punktet M).

Pick-up Height

Turn the eccentric K anti-clockwise until its stop.

Set the counterbalance weight at 0.5 gram below the point of balance.

Set the camwheel 2132 in its stop position.

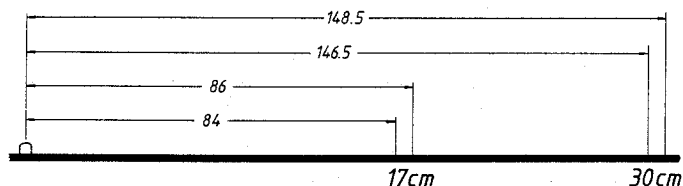
Take the tonearm inwards over the centre part of the platter (the point M).

Skruen L justeres til afstanden mellem pick-up nål og pladetallerken er 5 mm.

Adjust the screw L until the distance between the pick-up stylus and the platter is 5 mm.

Pick-uparm nedslag

Tonearm Touch-down

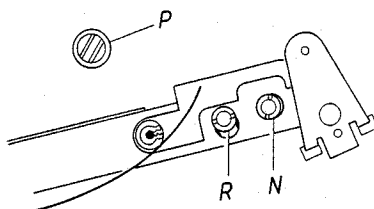


Med eksentrik N justeres til korrekt 30 cm nedslag.

Adjust with the eccentric N until the correct 30 cm touch-down point.

Med eksentrik P justeres til korrekt 17 cm nedslag.

Adjust with the eccentric P until the correct 17 cm touch-down point.



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

Pick-uparm stopposition

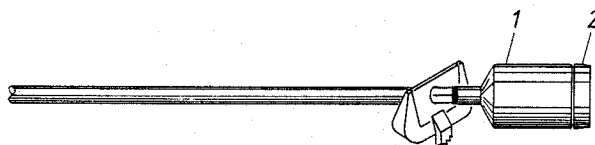
Eksentrik R drejes med uret til den viste position, og drejes derefter mod uret, indtil pick-uparmen i sin stop position er parallel med chassis siden. Stop positionen kontrolleres ved at køre pick-uparmen ind og ud ved hjælp af svingringen.

Tonearm Stop Position

Turn eccentric R clockwise to the position shown, and then turn it anticlockwise until the tonearm in its stop position is parallel to the chassis side. Check the stop position by letting the tonearm travel in and out by means of the fly-wheel.

Pick-uparm balance

Tonearm Balance



Kontravægten (1) skrues ud eller ind til pick-up armen er i balance.

Screw the counterbalance weight (1) inwards or outwards until the pick-up arm is balancing.

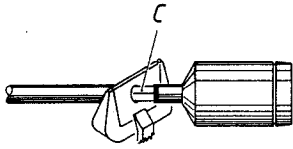
Kontravægten holdes fast, og skalaen (2) nulstilles.

Hold the counterbalance weight firmly and zero the dial (2).

Kontravægten, der leveres med apparatet, er forindstillet og låst fra fabrikken.

Prior to shipping the set, the manufacturer has pre-set and locked the counterbalance weight.

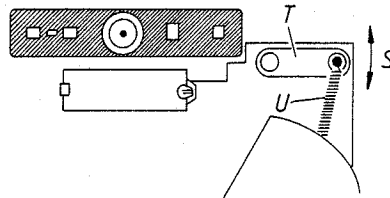
Pick-up parallelitet



Skruen C løsnes.

Pick-uparmen drejes til afstandene A og B er ens, og pick-up'ens plane stykke er parallel med pladens overside.

Antiskating



Testplade 3621045 pålægges pladetallerkenen.

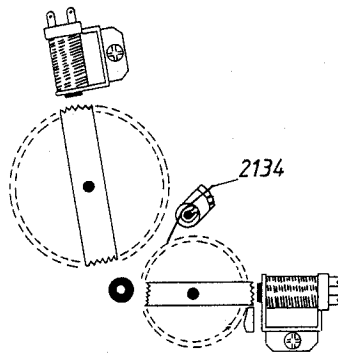
Nåletryk stilles til 1,5 gram med MMC 5.

Oscilloskop tilsluttes højre og venstre kanal.

Skæring 1 afspilles.

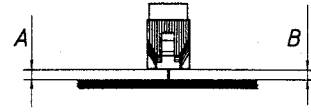
Armen T skubbes i retning S, til forvrængningen er ens i begge kanaler (ved forvrængning i venstre kanal skal fjedren U slækkes, for højre kanal skal fjedren strammes).

Fjeder 2134



Fjederen 2134 skal altid monteres i hakket vist på skitsen.

Tonearm Parallelism



Loosen screw C.

Turn the tonearm until the clearance A and B are equal and the straight section of the pick-up is parallel to the topside of the record.

Antiskating

Place the test record 3621045 on the platter.

Set the stylus pressure at 1.5 grams with MMC 5.

Connect an oscilloscope to the right-hand and left-hand channels.

Play cut 1.

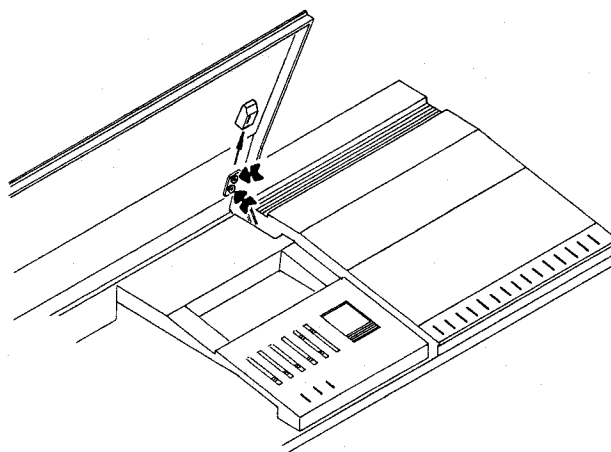
Push the arm T in either direction of the arrow S until there is equal distortion in both channels (slacken spring U for left-hand channel distortion, tighten it for right-hand channel distortion).

Spring 2134

Always fit the spring 2134 in the notch as shown in the diagram.

Støvlåg

Dust Cover



Den viste kappe trækkes af i pilens retning.

Ved at løsne de med pile markerede skruer, kan låget justeres til korrekt pasning.

Lignende justering findes også i venstre side.

Pull the cover, as shown, off in the direction of the slender arrow.

The dust cover can be adjusted for correct fit by loosening the screws indicated by the bold arrows.

Similar adjustment can be made at the left-hand side as well.

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

TECHNICAL SPECIFICATIONS

Amplifier

| | |
|------------------------------------|------------------------|
| Power output RMS DIN | 2 x 25 W/4 Ω |
| | 2 x 20 W/8 Ω |
| Harmonic distortion -26 dB | <0.15% |
| Harmonic distortion | <0.2% |
| Intermodulation | <0.4% |
| Frequency range ± 1.5 dB | 20-20,000 Hz |
| Damping factor | >20 |
| Input TAPE COPY | 600 mV/40 k Ω |
| Signal-to-noise ratio PHONO | >78 dB |
| Output ext. TAPE (FM ± 40 kHz) | 200 mV 1 k Ω |
| Output PHONES | Max. 16 V/220 Ω |
| Channel separation 1000 Hz | >46 dB |
| BASS control at 40 Hz | ± 14 dB |
| TREBLE control at 12,500 Hz | ± 14 dB |

FM Section

| | |
|------------------------------|-------------------------|
| FM frequency range | 87.5-108 MHz |
| Aerial impedance | 75/240 Ω |
| Sensitivity stereo 46 dB | <35 μ V/75 Ω |
| Frequency range ± 1.5 dB | 20-15,000 Hz |
| Harmonic distortion | <0.5% |
| Stereo channel separation | >35 dB |

AM Section

| | |
|----------------------|--------------|
| LW range | 147-350 kHz |
| MW range | 520-1610 kHz |
| Sensitivity LW 20 dB | 110 μ V |
| Sensitivity MW 20 dB | 90 μ V |

Record Player

| | |
|-----------------------|-----------------|
| Speeds | 33/45 rpm. |
| Wow and flutter, DIN | < $\pm 0.7\%$ |
| Wow and flutter, WRMS | < $\pm 0.035\%$ |
| Rumble, weighted | >70 dB |
| Rumble, unweighted | >50 dB |

MMC5

| | |
|----------------------------|---------------------------------|
| Stylus | Elliptical diamond 6x17 μ m |
| Recommended tracking force | 15 mN/1.5 g |
| Frequency range | 20-20,000 Hz ± 3 dB |
| Channel separation 1000 Hz | >20 dB |
| 400-10,000 Hz | >15 dB |
| Channel difference | <2.5 dB |
| Effective tip mass | 0.5 mg |
| Compliance | 20 μ m/mN |
| Sensitivity mV/cm/sec. | >0.6 mV/47 k Ω |
| Output 5 cm lateral | >2.12 mV/47 k Ω |

Tape Recorder

| | |
|---------------------------------------|-------------------|
| Compact cassette | C60-C90 |
| Tape head | Super permalloy |
| Noise reduction | Dolby B |
| Tape switch | Auto ferro/chrome |
| | Man. Metal |
| Wow and flutter | <±0.2% |
| Speed deviation | <±1.5% |
| Fast forward and rewind C60 | 75 sec. |
| Frequency range metal/chrome/ferro | 30-15,000 Hz |
| Signal-to-noise ratio Metal Dolby NR | >66 dB |
| Signal-to-noise ratio Chrome Dolby NR | >65 dB |
| Signal-to-noise ratio Ferro Dolby NR | >63 dB |
| Signal-to-noise ratio Metal | >58 dB |
| Signal-to-noise ratio Chrome | >57 dB |
| Microphone input | 0.15 mV/2 kΩ |

Other Data

| | |
|----------------------|--------------------|
| Power supply | 110-130-220-240 V |
| Power frequency | 50-60 Hz |
| Power consumption | 18-135 W |
| Dimensions W x H x D | 74 x 9.5 x 32.5 cm |
| Weight | 11 kg |

Subject to change without notice

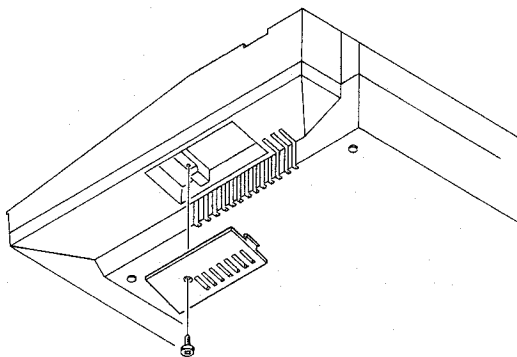
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

ADSKILLELSE

Sikringer

DISMANTLING

Fuses

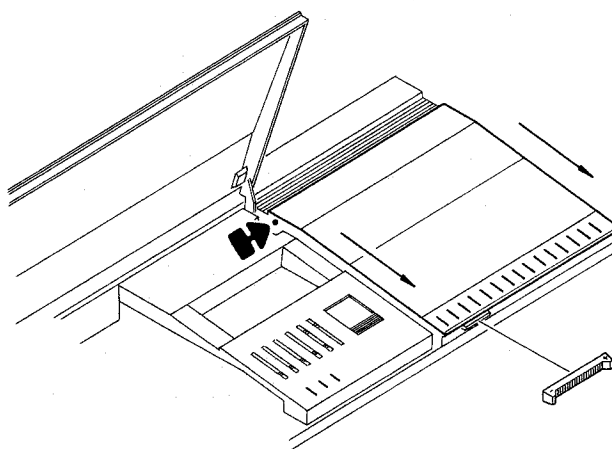


Når den viste skrue er fjernet, kan dækslet over sikringerne tages af.

After removal of the screw shown the fuse cover can be removed.

Skalalamper

Dial Lamps



Afmonter volumenknappen (ved at trække i den).

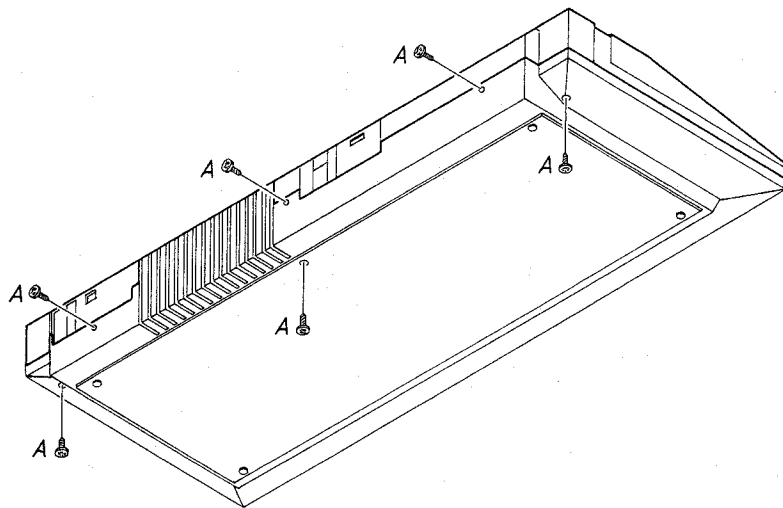
Remove the volume key (by pulling).

Låsepalen i skalapanelets venstre side presses ind med en skruetrækker og samtidigt trækkes skalapanelet frem som vist.

Press the locking pawl at the left side of the dial panel in with a screwdriver while simultaneously pulling the dial panel forwards as shown.

Bagprofil med støvlåg

Rear Profile with Dust Cover

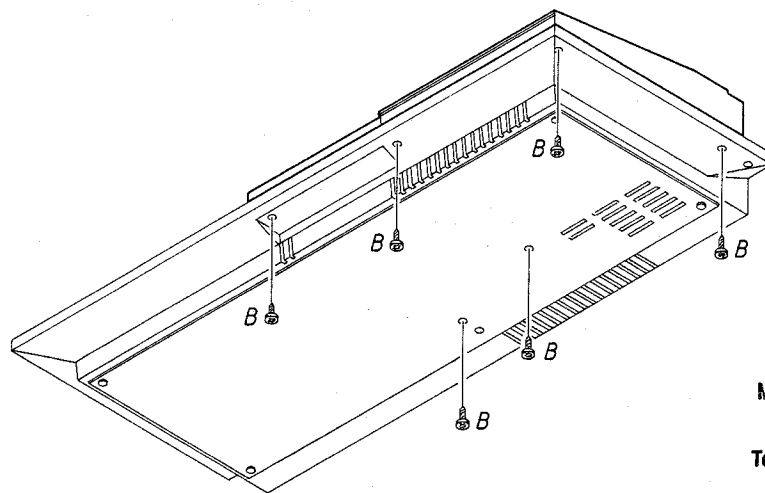


De tre viste skruer i bunden, samt de tre skruer i bagkanten skrues ud.

Unscrew the three screws shown at the bottom as well as the three screws at the rear edge.

Betjeningspanel

Control Panel



Bagprofil med støvlåg afmonteres.

Remove the rear profile with dust cover.

De seks viste skruer i bunden skrues ud.

Unscrew the six bottom screws shown.

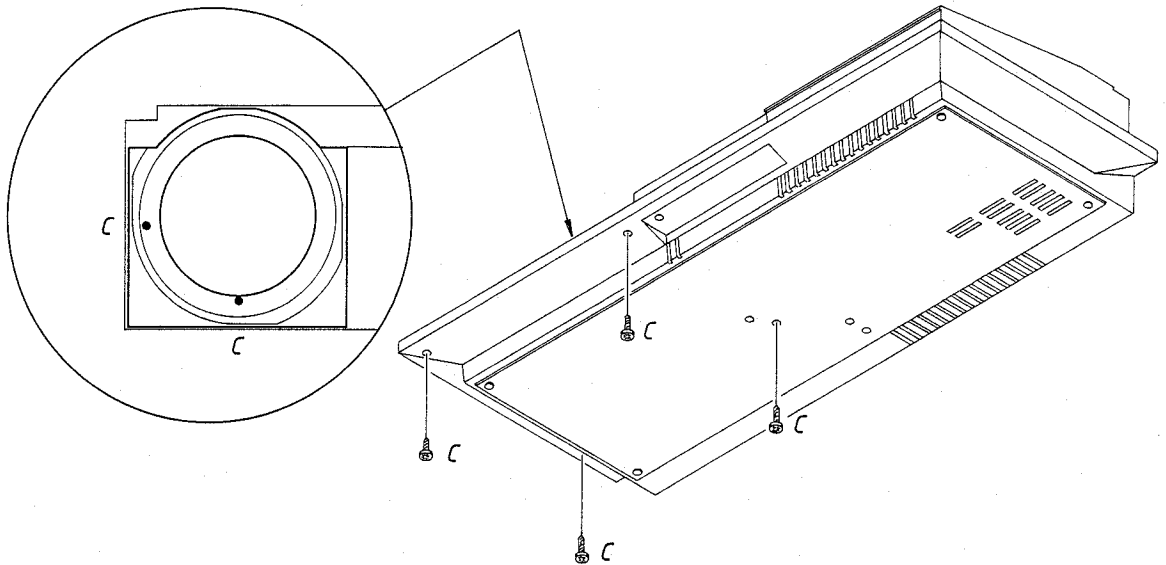
Betjeningspanelet er nu frigjort og kan anbringes i servicestilling bagved apparatet (med enten knapper eller printplader opad).

The control panel is now released and can be placed in servicing position behind the set (with either buttons or PCBs facing upwards).

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

Topplade, pladespiller

Top Plate, Record Player



Bagprofil med støvlåg afmonteres.

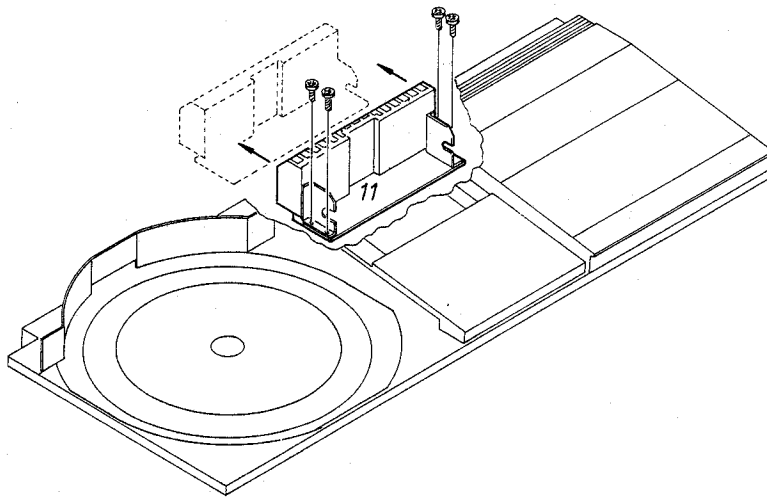
Remove rear profile with dust cover.

De fire viste skruer i bunden og de to i toppladen skrues af.

Unscrew the four bottom screws shown and the two in the top plate.

Udgangsførsterker, PCB11

Output Amplifier, PCB11



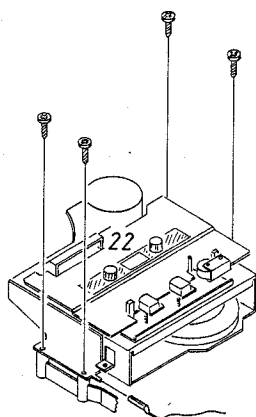
Bagprofil med støvlåg afmonteres.

Remove the rear profile with dust cover.

Nu er PCB11 tilgængelig og kan rykkes ud i servicestilling ved at skrue de fire viste skruer ud.

PCB11 is now accessible and can be pulled into servicing position after unscrewing the four screws shown.

Båndoptager

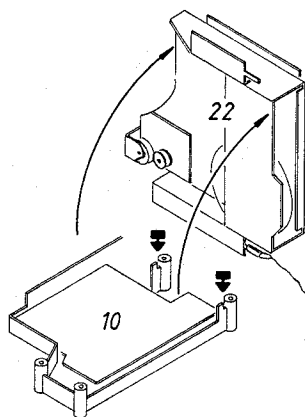


Toppladen for pladespilleren afmonteres og radio-delen anbringes i servicestilling.

De fire viste skruer fjernes.

Båndoptagerløbeværket kan nu løftes op og anbringes i servicestilling (de to viste hak i støttebenene på bundpladen).

Tape Recorder



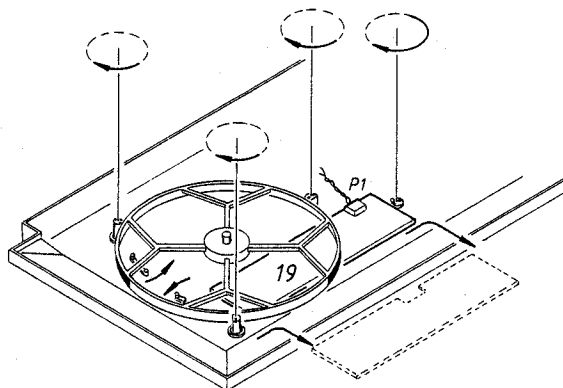
Remove the top plate of the record player and place the radio section in servicing position.

Unscrew the four screws shown.

The tape recorder drive train can now be lifted and placed into servicing position (the two notches shown in the bottom plate supports).

Pladespillerkredsløb, PCB19

Record Player Circuit, PCB19



Toppladen for pladespilleren aftages:

De tre viste stop for svingning drejes 1/4 omdr. med uret.

Rem og svingring aftages.

De to arme/ledningsholdere drejes, således at ledningsbundtet for motoren kan frigøres.

Aftag P1.

Drej det viste stop for PCB19 1/2 omdr.

Ved at skubbe PCB19 til højre kan den nu trækkes ud over apparatets forkant som vist.

Remove the top plate of the record player.

Turn the three stops of the fly-wheel 1/4 turn clockwise.

Remove belt and fly-wheel.

Turn the two arms/wire holders in such a way that the bundled wires for the motor can be released.

Remove P1.

Turn the stop shown for PCB19 1/2 turn.

By pushing PCB19 to the right it can now be pulled over the front edge of the set, as shown.

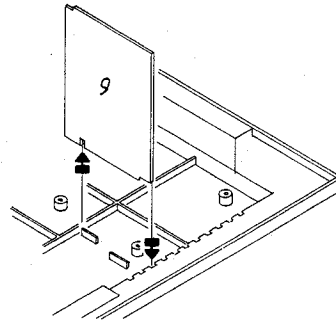
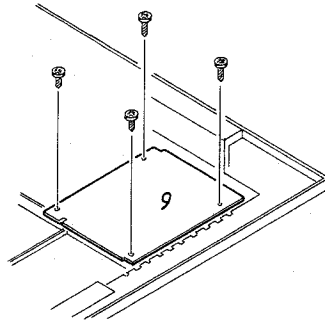
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

NB: Husk at dreje de tre stop for svingring tilbage ved samling af apparatet.

NOTE: Do not forget to turn the three stops back when re-assembling the set.

Gengiveforstærker og Dolby, PCB9

Play-back Amplifier and Dolby, PCB9



De fire viste skruer skrues ud.

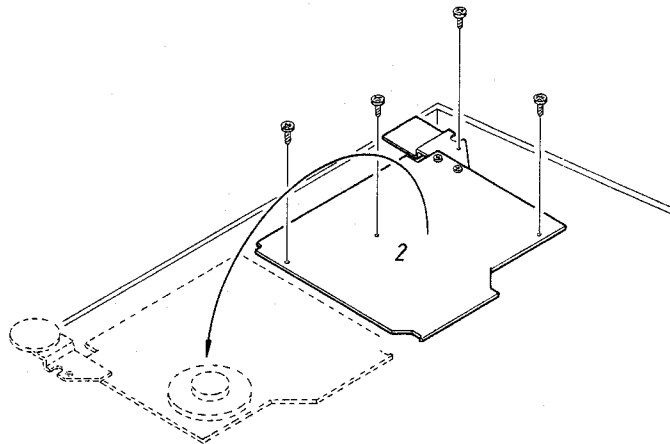
Unscrew the four screws shown.

PCB9 kan nu anbringes i en af udskæringerne i bundes forkant og med det viste hak i PCB9 i indgreb med bundribben.

PCB9 can now be placed in one of the notches at the front edge of the bottom so that the notch of PCB9 engages the bottom comb.

AM-FM del

AM-FM Section



Når de fire viste skruer er afmonteret kan PCB2 vippes over i servicestilling ovenpå PCB 5/6/8. – Der bør dog anbringes et stykke isolerende materiale mellem disse og PCB2!

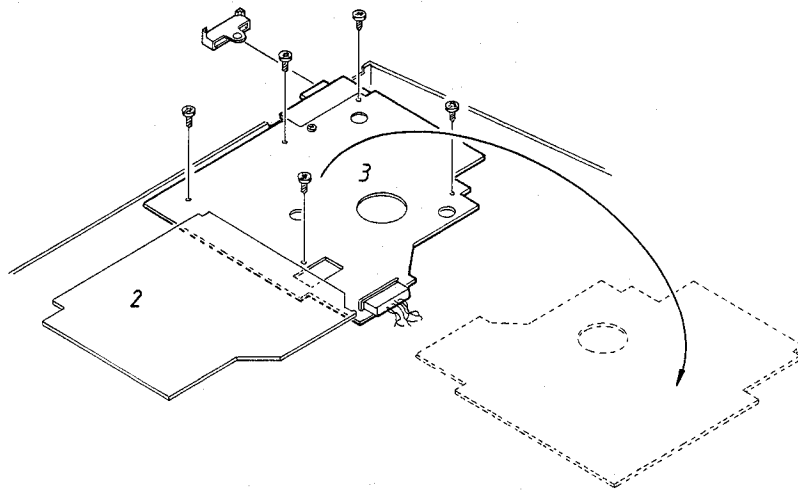
When the four screws shown are unscrewed, PCB2 is tiltable into servicing position on top of PCB 5/6/8. – However, an insulating material should be inserted between these and PCB2!

NB: Husk kontrol af skalapasning ved samling (se justeringer og servicetips).

NOTE: Do not forget to check dial alignment when re-assembling (see adjustments and service tips).

Kontrolkredsløb PCB3

Control Circuit, PCB3



PCB2 anbringes i servicestilling.

Styr for skalaknap trækkes af.

Når de fem skruer er skruet ud, kan PCB3 vippe over som vist.

Place PCB2 into servicing position.

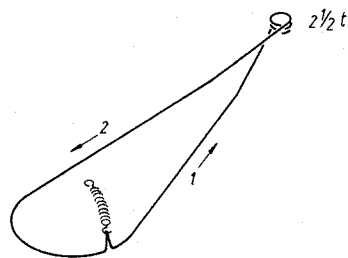
Pull off guide for dial knob.

When the five screws are unscrewed, PCB3 is tiltable, as shown.

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351634 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

SERVICETIPS

Skalasnor

**Mekanisk skalapasning**

Skala og afmaskning afmonteres (se adskillelse).

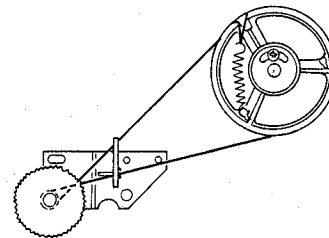
Drejekondensatoren drejes helt ud (min. kapacitet).

Skruen A løsnes og skalaviseren (OD1) justeres til at være ud for mærket B.

Skruen A strammes.

SERVICETIPS

Dial Cord

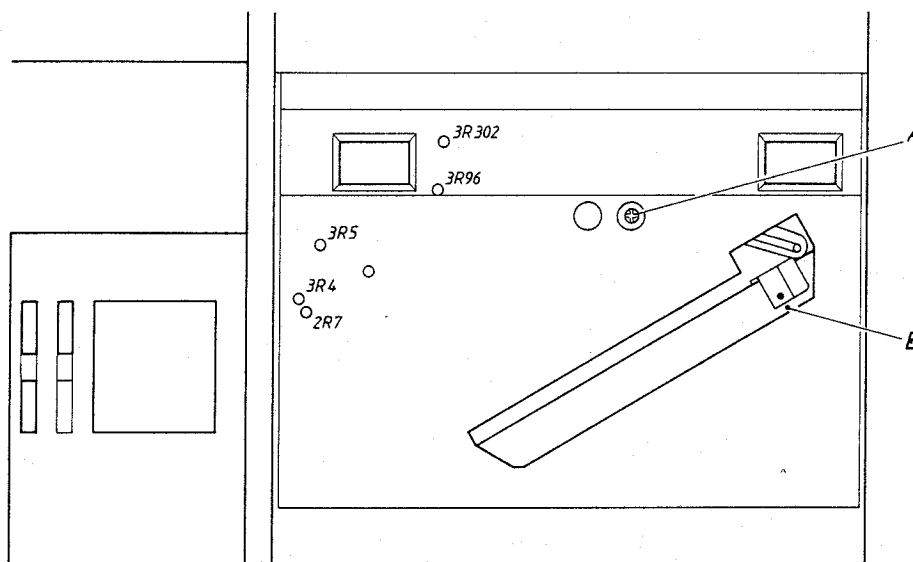
**Mechanical Dial Calibration**

Remove dial and masking (see Dismantling).

Turn the variable capacitor all the way out (min. capacitance).

Loosen the screw A and set the dial pointer (OD1) opposite the indication point B.

Tighten the screw A.

**PCB2 og PCB3 justeringer**

Følgende justeringer er tilgængelige gennem huller i betjeningspanelet, når skala m.m. er afmonteret (se adskillelse):

| | |
|-------|--------------------------------|
| 3R96 | Next pause |
| 3R302 | Next følsomhed |
| 3R4 | PPM -20 dB |
| 3R5 | PPM 0 dB |
| 2R7 | Afstemningsspænding 108,5 MHz. |

PCB2 and PCB3 Adjustments

The following adjustments are accessible through apertures in the operating panel when the dial etc. has been removed (see Dismantling):

| | |
|-------|--------------------------|
| 3R96 | Next pause |
| 3R302 | Next sensitivity |
| 3R4 | PPM -20 dB |
| 3R5 | PPM 0 dB |
| 2R7 | Tuning voltage 108.5 MHz |

Smøring

Behovet for eftersmøring er minimalt, men ved større eftersyn og ved udskiftning af vigtige mekaniske dele, bør disse retningslinier følges.

Lubrication

The need for lubrication is negligible, but the directions given below should be followed during overhauls and when replacing major mechanical components.

| | | |
|--|---|---------------------------------------|
| <p>Tonehovedbro 22012: Glideflader mod tappe i topchassis, vinkel 22013 og kugle 22025.</p> <p>Kobling 22060: Glideflade mod vinkel 22066 og vinkel 22064.</p> <p>Kurvehjul 22097 og 22104: Glideflade mod aksel i topchassis.</p> | <p>Tape head bridge 22010: Fase slidings against taps in top chassis, bracket 22013 and ball 22025.</p> <p>Clutch 22060: Fase sliding against bracket 22066 and bracket 22064.</p> <p>Cam lifting wheel 22097 and 22104: Fase sliding against shaft in top chassis.</p> | <p>3984216 Rocol MTS 1000</p> |
| <p>Trykrulle 22020: Glideflade mod aksel.</p> <p>Svinghjul 22122: Glideflade mod bundleje</p> | <p>Pressure wheel 22020: Fase sliding against shaft.</p> <p>Flywheel 22122: Fase sliding against bottom bearing 22124.</p> | <p>3984021</p> <p>Eprohon grease</p> |
| <p>Spoletallerkener 22034 og 22048: Glideflader mod aksler i topchassis og ring 22036.</p> <p>Berøringsflader mellem aksel 22029, vinkel 22044 og vinkel 22043.</p> | <p>Shafts for turntables 22034 and 22048: Fase slidings against shafts in top chassis and ring 22036.</p> <p>Surfaces of contact between shaft 22029, bracket 22044 and bracket 22043.</p> | <p>3984022 Floil GB-TS-1</p> |

Wow frekvenser

Wow frequencies

| Frekvens/Frequency | Fejlkilde | Source of Failure | Pos. nr./Pos. no. |
|--------------------|---------------------------------|-------------------------------|-------------------|
| 0.37 Hz | Remskive | Pulley | 22096 |
| 1.17 Hz | Trykrulle | Thrust roller | 22020 |
| 2.7 Hz | Spoletallerkener (midt på bånd) | Supply reels (middle of tape) | 22034/22048 |
| 3 Hz | Rem | Belt | 22065 |
| 4.2 Hz | Rem | Belt | 22123 |
| 6 Hz | Svinghjul | Flywheel | 22122 |
| 9.6 Hz | Opsamlekobling | Take-up clutch | 22061 |
| 12.7 Hz | Remskive | Pulley | 22109 |
| 36.7 Hz | Remskive | Pulley | 22141 |

Ledningsfarver

Colour of Wires

| | | | | |
|------|--------|----------|--------|--------|
| b | black | schwartz | sort | noir |
| bl | blue | blau | blå | bleu |
| br | brown | braun | brun | brun |
| gr | green | grün | grøn | vert |
| grey | grey | grau | grå | gris |
| or | orange | orange | orange | orange |
| r | red | rot | rød | rouge |
| v | violet | violett | violet | violet |
| wh | white | weiss | hvid | blanc |
| y | yellow | gelb | gul | gaune |

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

Permanent tilslutning af ekstern båndoptager

Ved permanent tilkobling af f.eks. en båndoptager til TAPE COPY stikdåsen kan der monteres 8 stk. 8 mm høje glidesko under apparatet, således at ledningen til den eksterne båndoptager kan placeres under apparatet.

Glideskoene leveres i sæt af 4 stk., under reservedelsnr. 3103122.

Tonehovedbro går fast

I de først producerede apparater kan der forekomme en fejl, hvor tonehovedbroen går fast (for lidt frigang).

Problemet løses ved at udskifte styret pos. nr. 22008. Det nye styr leveres sammen med en kugle (som pos. nr. 22024).

Ændringen er indført i produktionen.

Apparat starter ikke på P1

Apparatet starter periodisk ikke på P1, når det (i varm tilstand) slukkes, og tændes umiddelbart efter.

Problemet kan løses ved at afbryde 12 V forsyningen til ben 13-14 på 3IC3 og indskyde en modstand 22 k Ω , samt montere en kondensator 22 μ F/16 V fra ben 13-14 til stel.

Ændringen er indført i produktionen efter ca. 12.500 apparater.

Kontrol af bias

Bias kan kontrolleres ved forvrængningsmåling:

Fe₂O₃ 2%
CrO₂ 2%
Metal 1%

Permanent Hook-up With External Tape Recorder

For permanent hook-up of, say, a tape recorder to the TAPE COPY plug, fit 8 of 8 mm high sliding shoes below the set so the hook-up wiring for the external tape recorder can be concealed below the set.

The sliding shoes are available in sets of 4 as spare part No. 3103122.

Tape head bridge seizes

In the early sets a fault may arise that the tape head bridge seizes (too little clearance).

The problem may be solved by replacing guide pos. no. 22008. The new guide is delivered together with a ball (like pos. no. 22024).

Modification has been introduced in production.

Set Does Not Start On P1

The set periodically does not start on P1, when it is (in warm condition) switched off, and immediately after switched on.

The problem can be solved by interrupting the 12 V supply to pins 13-14 on 3IC3 and inserting a resistor 22 k Ω , as well as mounting a capacitor 22 μ F/16 V from pins 13-14 to chassis.

The modification was introduced in production after approx. 12,500 sets.

Check of Bias

Bias may be checked by means of distortion measurements:

Fe₂O₃ 2%
CrO₂ 2%
Metal 1%

ISOLATIONSTEST

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

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren.

Netafbryder sættes i position ON.

Den anden terminal fra isolationstesteren tilsluttes stelbenet i en af højttalerstikdåserne.

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 til 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 record player **must** be insulation tested after having been dismantled. The test is to be made when the record player has been reassembled completely and is ready for delivery to the customer (with the transit screws tightened).

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect one of the terminals to the insulation tester.

Set the mains switch in position ON.

Connect the other terminal of the insulation tester to the chassis pin in one of the speakers sockets.

NOTE!

To avoid ruining the record player it is essential that both insulation tester terminals are in really good mechanical contact.

Now slowly turn 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 the voltage down again.

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

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