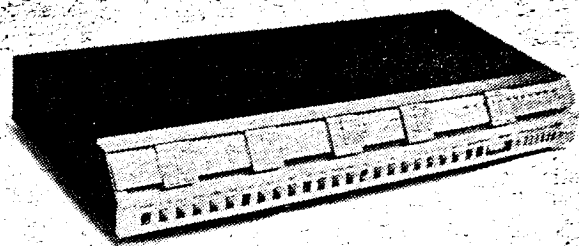


Bang & Olufsen



BEOMASTER 4400

TYPE 2417

BEOMASTER 4401

TYPE 2416

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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SERVICE MANUAL

CONTENTS

| | SECTION |
|---|---------|
| Technical data | 1 |
| Adjustments | 2 |
| Electrical parts list | 3 |
| Mechanical parts list | 4 |
| Diagrams, PC-boards, transistor and diode lists | 5 |

INTRODUCTION

This service manual comprises both Beomaster 4400 and Beomaster 4401, types 2417 and 2416.

Electrically these two apparatuses are identical. Mechanically they differ as Beomaster 4401 type 2416 has black front.

In the electrical parts lists only the left channel components are stated for the AF unit. This has been taken into account at the numbering on the diagramme. The last two digits are identical.

Left channel begins with 100, right channel with 200.

Besides a number each component is provided with a co-ordinate designation, e.g. B3. This designation refers to the placing of the component on the PC board which is divided into square sections.

The drawings of the component placing in this service manual are all shown from the copperfoil side.

TECHNICAL DATA DIN 45 500 AMPLIFIER

| | |
|---|------------------------|
| Power output | 2 x 75 watts / 4 ohms |
| | 2 x 50 watts / 8 ohms |
| Music power | 2 x 110 watts / 4 ohms |
| | 2 x 60 watts / 8 ohms |
| Speaker impedance | 4 ohms |
| Harmonic distortion | < 0.05% |
| Intermodulation | < 0.1% |
| Frequency range | 20 - 35,000 Hz |
| Damping factor | > 65 |
| Input pickup low impedance | 2.2 mV / 47 kohms |
| Input high impedance | 200 mV / 470 kohms |
| Overload margin | > 31 dB |
| Signal-to-noise ration pickup low impedance | > 60 dB |
| High impedance | > 60 dB |
| Channel separation 1000 Hz | > 45 dB |
| 250 - 10,000 Hz | > 35 dB |
| Output tape recorder | 100 mV / 100 kohms |
| Headphones | Max. 17V / 200 ohms |
| Bass control at 40 Hz | ± 10 dB |
| Treble control at 12,500 Hz | ± 10 dB |
| HI filter | 7000 Hz 12 dB / octave |
| Lo filter | 60 Hz 12 dB / octave |

FM TUNER

| | |
|---------------------------|-------------------|
| FM tuner range | 87.5 - 108 MHz |
| Sensitivity stereo 46 dB | < 20 µV / 75 ohms |
| Frequency range | 20 - 15,000 Hz |
| Harmonic distortion | < 0.3% |
| Stereo channel separation | > 35 dB |
| Pilot suppression 19 kHz | > 65 dB |
| 38 kHz | > 100 dB |

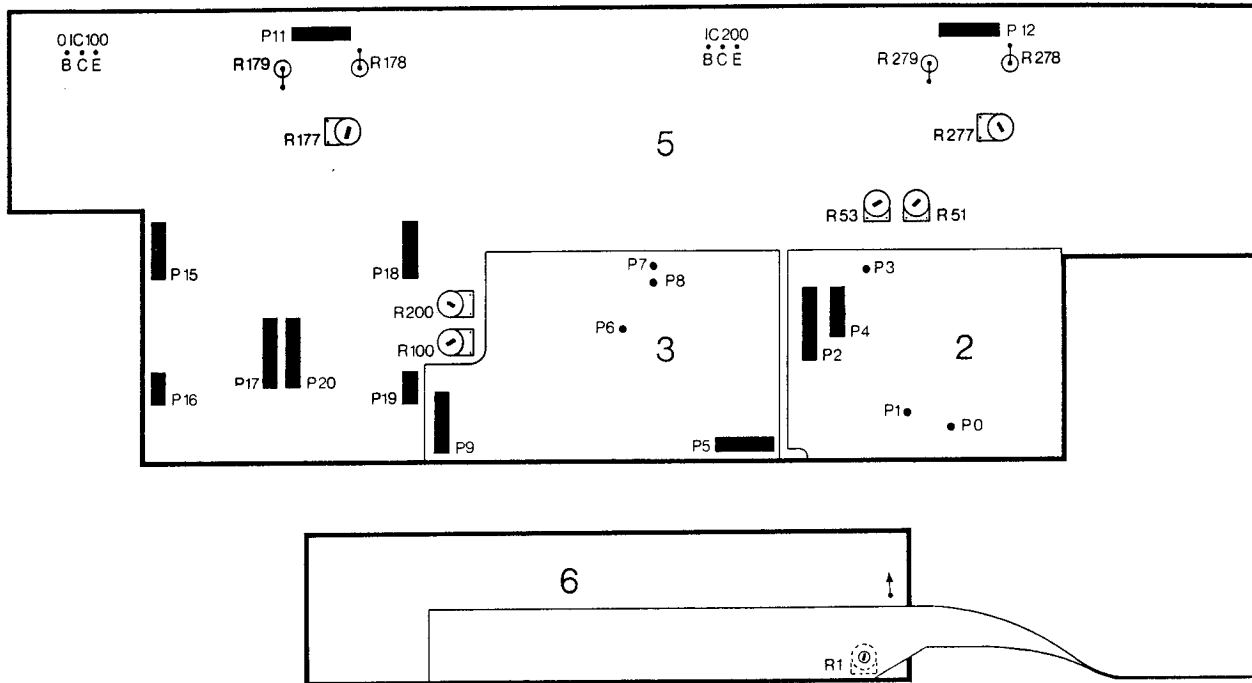
OTHER DATA

| | |
|----------------------|-----------------------------|
| Power supply | 110 - 130 - 220 - 240 volts |
| Power consumption | 30 - 310 watts |
| Dimensions W x H x D | 57,5 x 9,5 x 28 cm |
| Weight | 10 kg |

Subject to change without notice

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ADJUSTMENTS



ADJUSTMENT OF NO-SIGNAL-CURRENT

Adjust no-signal-current with receiver cold and volume control turned down.

Speakers must not be connected.

With 5R177 (5R277) adjust within the area 25-40 mA in collector of 0IC100 (0IC200), or adjust to 10-15 mV measured across both emitter resistors 5R178 and 5R179 (5R278 and 5R279).

Note: If, in case of failure in the apparatus, there has been DC on the output, 5C138/238 must be replaced.

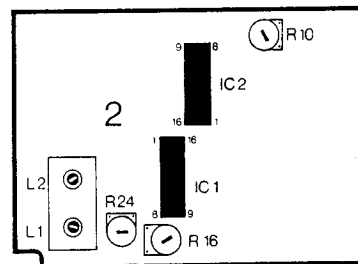
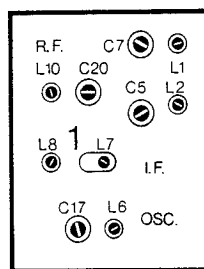
TUNING VOLTAGE

Depress FM and turn FM dial toward mechanical stop in the right side.

Adjust 2R10 to 25.5 V, measured on pin 12 on 2IC2.

Turn FM dial toward mechanical stop in the left side.

Adjust 6R1 to 4.6 V, measured on grey/white cable on pushbutton switch PC.



TUNER

Set dial to 89 MHz.

Set sweep generator to 89 MHz.

With 1L10, 1L1, 1L2 and 1L6 adjust to max. IF curve, measured on pin 10 of 2IC1.

Set dial to 106 MHz.

Set sweep generator to 106 MHz.

With 1C20, 1C7, 1C5 and 1C17 adjust to max. IF curve.

Check dial alignment - repeat adjustment procedure if necessary.

Set dial to 97 MHz.

Set sweep generator to 97 MHz.

With 1L7 and 1L8 adjust to max. IF curve.

IF AND DETECTOR

Set receiver to weak signal, < 10 μ V. AFC off, and measure DC voltage on pin 10 of 2IC1.

Set receiver to min. DC voltage, (< 1 V) on pin 10, which corresponds to correct setting on signal.

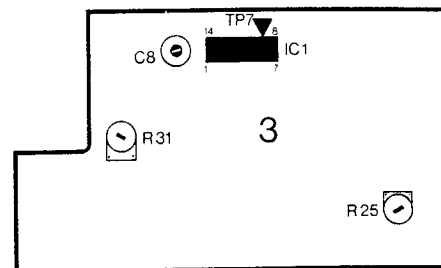
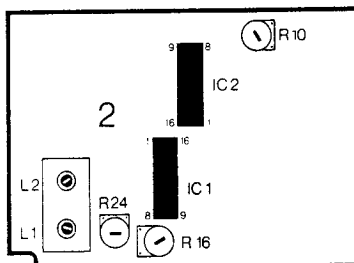
Set receiver to a strong signal, 0.5 mV.

With detector coils, 2L1 and 2L2, adjust to max. output measured on pin 5 of 2IC1.

With 2L2 may be adjusted to min. distortion, measured on pin 5 of 2IC1.

Adjust then 2R24 to 0 V between pin 5 and pin 6 of 2IC1.

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ZERO ADJUSTMENT OF RADICATOR

Depress FM button and set dial out of station. With 5R51 adjust radicator to zero.

MAX. ADJUSTMENT OF RADICATOR

Supply a signal of 0.5 mV to aerial input and set dial to receive this signal. With 5R53 adjust radicator to a deflection of 4.5.

TUNING INDICATOR

Tune in a FM station correctly. (0 V between pin 5 and pin 6 on 2IC1). Adjust with 3R25 till both lamps show identical brilliance.

LEVEL

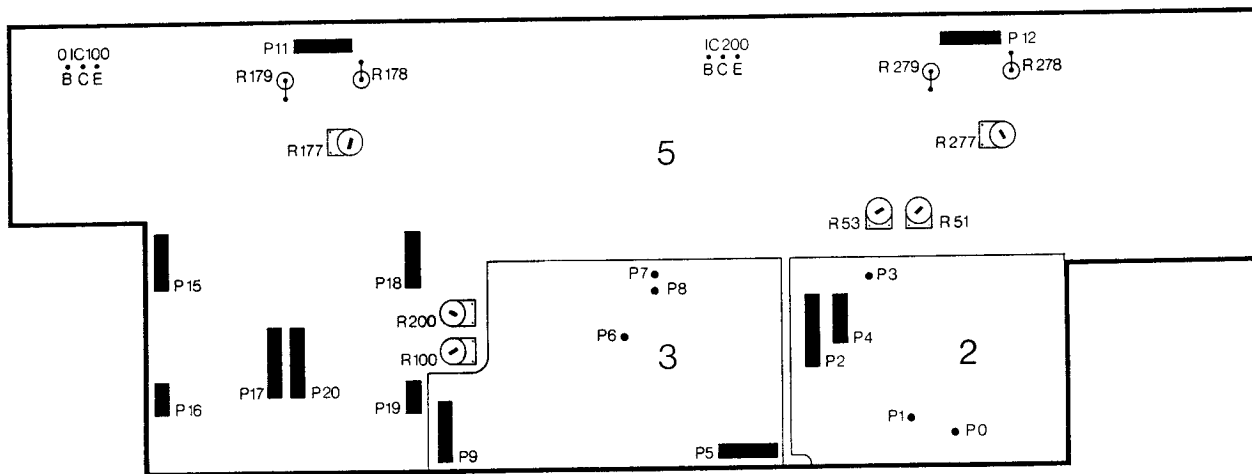
Apply a signal of 5 μ V to aerial input.

Set treble control to mid-position, AFC not to be activated.

Set receiver correctly to signal generator frequency, e.g. 97 MHz.

Adjust 2R16 so that indicator lamps just go out.

This adjustment is accessible from outside in case of special reception conditions.



DECODER

Tune in a mono station.

With 3C8 adjust internal oscillator exactly to 19 kHz, measured on 3TP7.

The accuracy can be checked in two ways:

1. Connect frequency counter to 3TP7.
2. Connect 19 kHz from 3TP7 to Y-input on oscilloscope and 19 kHz from a stereocoder to the X-input. When the Lissajous figure is stationary, the adjustment is correct.

A third way to adjust the internal oscillator is as follows:

3. Tune in a stereo station.
 Turn 3C8 to one side until the stereo lamp turns off. Turn then 3C8 to the other side until the stereo lamp turns off. The setting midway between these two settings represents the correct adjustment.

CHANNEL SEPARATION

Connect stereo decoder to aerial input f.mod. 1 kHz, Δf 40 kHz, pilot 8-10%, AFC on.

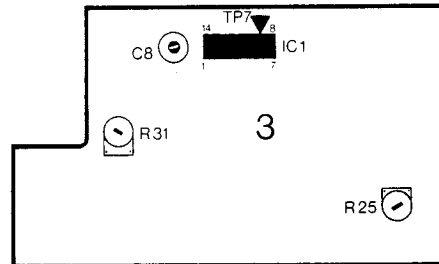
Connect wattmeter to amplifier output.

Set treble control to min.

With 3R31 adjust to min. output in unmodulated channel.

Adjustment should be made both with unmodulated left channel and unmodulated right channel.

The coils 3L3, 3L4, 3L5, and 3L6 are factory pre-adjusted and should not be touched.



AF LEVEL ADJUSTMENT

Phono (4R112/212) may be adjusted within the area: 2 mV - 20 mV.

Tape 1 and 2 (4R126/226 and 4R119/219) may be adjusted within the area 180 mV - 2 V).

FM LEVEL ADJUSTMENT

Adjust FM (5R100/200) to rated output (75 W, volume in max., and linear button activated) at Δf 15 kHz.

ELECTRICAL PARTS LIST

| | | | | | |
|-------|---------|----------------------------|-------|---------|--------------------------|
| OR100 | 5310067 | 2 x 20 KOHms LOG. VOLUME | OR102 | 5310065 | 2 x 20 KOHms LIN. TREBLE |
| OR101 | 5310066 | 2 x 20 KOHms SPEC. BALANCE | OR103 | 5310065 | 2 x 20 KOHms LIN. BASS |

| | | | | | |
|-----|---------|-----------------|-----|---------|-----------------|
| OC1 | 4010018 | 1 nF 250V | OC7 | 4130075 | 0,1 µF 20% 250V |
| OC2 | 4010018 | 1 nF 250V | OC8 | 4200351 | 10000 µF 50V |
| OC3 | 4010018 | 1 nF 250V | OC9 | 4200351 | 10000 µF 50V |
| OC6 | 4130075 | 0,1 µF 20% 250V | | | |

| | | | | | |
|------|---------|----------|-----|---------|---------------------|
| OIL1 | 8230039 | 6V/30 mA | OF1 | 6600020 | 2,5A 250V S IEC 127 |
| OIL2 | 8230064 | 6V/80 mA | OF2 | 6600020 | 2,5A 250V S IEC 127 |
| OIL3 | 8230064 | 6V/80 mA | | | |
| OIL4 | 8230064 | 6V/80 mA | | | |
| OIL5 | 8230064 | 6V/80 mA | | | |

FRONT END PC1, 8050063

| | | | | | |
|----|---------|--------------------|-----|---------|--------------------|
| R1 | 5001050 | 47 KOHms 10% 1/2W | R8 | 5010067 | 560 Ohms 5% 1/8W |
| R2 | 5010141 | 27 KOHms 5% 1/8W | R9 | 5010411 | 47 Ohms 5% 1/8W |
| R3 | 5010041 | 5,6 KOHms 5% 1/8W | R10 | 5001038 | 4,7 KOHms 10% 1/2W |
| R4 | 5001062 | 330 KOHms 10% 1/2W | R11 | 5001062 | 330 KOHms 10% 1/2W |
| R5 | 5001050 | 47 KOHms 10% 1/2W | R12 | 5001013 | 100 Ohms 10% 1/2W |
| R6 | 5001013 | 100 Ohms 10% 1/2W | R13 | 5001013 | 100 Ohms 10% 1/2W |
| R7 | 5010076 | 3,3 KOHms 5% 1/8W | R14 | 5001040 | 6,8 KOHms 10% 1/2W |

| | | | | | |
|-----|---------|-----------------------|-----|---------|----------------------|
| C1 | 4010008 | 1 nF -20 +50% 400V | C13 | 4010008 | 1 nF -20 +50% 400V |
| C2 | 4010008 | 1nF -20 +50% 400V | C14 | 4003059 | 22 pF 5% 250V |
| C3 | 4010008 | 1 nF -20 +50% 400V | C15 | 4010008 | 1 nF -20 +50% 400V |
| C4 | 4003012 | 3,3 pF ± 0.25 pF 400V | C16 | 4130081 | 10 nF 20% 250V |
| C5 | 4330001 | 9 pF Cer. | C17 | 4330001 | 9 pF Cer. |
| C6 | 4010008 | 1 nF -20 +50% 400V | C18 | 4000089 | 8,2 pF ± 0.5 pF 250V |
| C7 | 4330001 | 9 pF Cer. | C19 | 4010011 | 8,2 pF ± 0.5 pF 400V |
| C8 | 4200107 | 10 µF 10V | C20 | 4330001 | 9 pF Cer. |
| C9 | 4010015 | 8,2 pF ± 0,25 pF 63V | C21 | 4101031 | 270 pF 5% 63V |
| C10 | 4003130 | 47 pF 2% 63V | C22 | 4010008 | 1 nF -20 +50% 400V |
| C11 | 4010008 | 1 nF -20 +50% 400V | C23 | 4101007 | 220 pF 5% 63V |
| C12 | 4010008 | 1 nF -20 +50% 400V | | | |

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| | | | | | |
|----|---------|------------------------------|-----|---------|-------------|
| L1 | 8020121 | RF (prim.) | L6 | 8020183 | OSC. |
| L2 | 8020122 | RF (sec.) | L7 | 8020124 | 10.7 MHz |
| L3 | 6830052 | 3,8 µH 5% | L8 | 8020137 | 10.7 MHz |
| L4 | 6830052 | 3,8 µH 5% | L9 | 6830052 | 3,8 µH 5% |
| L5 | 6710001 | Ferrit tube 3 x 1.2 x 3.5 mm | L10 | 8020120 | Aerial coil |

6702001 Ferrit-core F100 (white)
 6702008 Ferrit-core F10 (red)
 6479001 Glassbushing

PRE-AMPLIFIER PC4, 8052101

| | | | | | |
|-----|---------|--------------------|-----|---------|--------------------|
| R1 | 5010079 | 22 KOHms 5% 1/8W | R21 | 5010049 | 100 KOHms 5% 1/8W |
| R2 | 5010046 | 12 KOHms 5% 1/8W | R22 | 5010046 | 12 KOHms 5% 1/8W |
| R3 | 5010048 | 4,7 KOHms 5% 1/8W | R23 | 5010065 | 100 Ohms 5% 1/8W |
| R4 | 5010070 | 390 Ohms 5% 1/8W | R24 | 5370128 | 100 KOHms 20% LIN. |
| R5 | 5010044 | 330 Ohms 5% 1/8W | R25 | 5010049 | 100 KOHms 5% 1/8W |
| R6 | 5010044 | 330 Ohms 5% 1/8W | R27 | 5010040 | 1 KOHms 5% 1/8W |
| R7 | 5010077 | 470 KOHms 5% 1/8W | R28 | 5010040 | 1 KOHms 5% 1/8W |
| R8 | 5010059 | 10 KOHms 5% 1/8W | R29 | 5010381 | 3,3 MOHms 10% 1/4W |
| R9 | 5010041 | 5,6 KOHms 5% 1/8W | R30 | 5010381 | 3,3 MOHms 10% 1/4W |
| R10 | 5370002 | 500 Ohms 20% LIN. | | | |
| R11 | 5010066 | 1,8 KOHms 5% 1/8W | | | |
| R12 | 5010070 | 390 Ohms 5% 1/8W | | | |
| R13 | 5010048 | 4,7 KOHms 5% 1/8W | | | |
| R14 | 5010066 | 1,8 KOHms 5% 1/8W | | | |
| R15 | 5010343 | 1,5 MOHms 10% 1/3W | | | |
| R16 | 5370058 | 5 KOHms 20% LIN. | | | |
| R17 | 5010059 | 10 KOHms 5% 1/+W | | | |
| R18 | 5010069 | 3,9 KOHms 5% 1/8W | | | |
| R19 | 5010069 | 3,9 KOHms 5% 1/8W | | | |
| R20 | 5010046 | 12 KOHms 5% 1/8W | | | |

IF-SECTION PC2,
CONTD.

| | | | | | |
|----|---------|---------------------|-----|---------|---------------------|
| C1 | 4200298 | 1 μ F 63V | C9 | 4010060 | 22 nF -20 +100% 40V |
| C2 | 4011025 | 3,3 nF 10% 100V | C10 | 4201061 | 4,7 μ F 63V |
| C3 | 4010027 | 1 nF 10% 100V | C11 | 4000094 | 150 pF 5% 63V |
| C4 | 4010041 | 10 nF -20 +100% 40V | C12 | 4000094 | 150 pF 5% 63V |
| C5 | 4010027 | 1 nF 10% 100V | C13 | 4010060 | 22 nF -20 +100% 40V |
| C6 | 4010060 | 22 nF -20 +100% 40V | C14 | 4000029 | 220 pF 5% 63V |
| C7 | 4010041 | 10 nF -20 +100% 40V | C15 | 4130136 | 1 μ F 20% 100V |
| C8 | 4010041 | 10 nF -20 +100% 40V | | | |

| | | | | | |
|-----|---------|----------|-----|---------|-------------|
| BP1 | 8030001 | 10.7 MHz | L1- | | |
| BP2 | 8030001 | 10.7 MHz | L2 | 8010141 | FM-Detector |
| BP3 | 8030001 | 10.7 MHz | L3 | 8020065 | 130 μ H |

| | | |
|----|---------|---------------|
| P2 | 7210135 | Socket 6 pol. |
| P4 | 7210137 | Socket 4 pol. |
| | 7500080 | Contact pin |

STEREO DECODER AND INDICATOR
CIRCUIT PC3, 8002299

| | | | | | |
|-----|---------|--------------------|-----|---------|-------------------|
| R1 | 5010045 | 47 KOhms 5% 1/8W | R18 | 5010076 | 3,3 KOhms 5% 1/8W |
| R2 | 5010040 | 1 KOhms 5% 1/8W | R19 | 5010091 | 82 KOhms 5% 1/8W |
| R3 | 5010362 | 180 Ohms 5% 1/8W | R20 | 5010144 | 680 Ohms 5% 1/8W |
| R4 | 5020034 | 18,7 KOhms 1% 1/8W | R21 | 5010077 | 470 KOhms 5% 1/8W |
| R5 | 5010053 | 15 KOhms 5% 1/8W | R22 | 5010076 | 3,3 KOhms 5% 1/8W |
| R6 | 5010065 | 100 Ohms 5% 1/8W | R23 | 5010091 | 82 KOhms 5% 1/8W |
| R7 | 5010040 | 1 KOhms 5% 1/8W | R24 | 5010144 | 680 Ohms 5% 1/8W |
| R8 | 5010049 | 100 KOhms 5% 1/8W | R25 | 5370049 | 1 MOhms 20% LIN. |
| R9 | 5010052 | 6,8 KOhms 5% 1/8W | R26 | 5001008 | 47 Ohms 10% 1/2W |
| R10 | 5010048 | 4,7 KOhms 5% 1/8W | R27 | 5010077 | 470 KOhms 5% 1/8W |
| R11 | 5010048 | 4,7 KOhms 5% 1/8W | R28 | 5010049 | 100 KOhms 5% 1/8W |
| R12 | 5010053 | 15 KOhms 5% 1/8W | R29 | 5010059 | 10 KOhms 5% 1/8W |
| R13 | 5010049 | 100 KOhms 5% 1/8W | R30 | 5010059 | 10 KOhms 5% 1/8W |
| R14 | 5010049 | 100 KOhms 5% 1/8W | R31 | 5370074 | 10 KOhms 20% LIN. |
| R15 | 5010077 | 470 KOhms 5% 1/8W | R32 | 5010069 | 3,9 KOhms 5% 1/8W |
| R16 | 5001008 | 47 Ohms 10% 1/2W | R33 | 5010092 | 220 Ohms 5% 1/8W |
| R17 | 5010077 | 470 KOhms 5% 1/8W | | | |

| | | | | | |
|-----|---------|-----------------------|-----|---------|----------------------|
| C2 | 4003130 | 47 pF 2% 63V | C18 | 4130150 | 0,1 μ F 20% 100V |
| C3 | 4200322 | 4,7 μ F 63V | C19 | 4100077 | 196 pF 2,5% 63V |
| C4 | 4200099 | 100 μ F 16V | C20 | 4100077 | 196 pF 2,5% 63V |
| C5 | 4200322 | 4,7 μ F 63V | C21 | 4100078 | 4,02 nF 2,5% 63V |
| C6 | 4130087 | 47 nF 10% 250V | C22 | 4100078 | 4,02 nF 2,5% 63V |
| C7 | 4010031 | 680 pF 10% 100V | C23 | 4100080 | 866 pF 2,5% 63V |
| C8 | 4340003 | 5,5 - 65 pF foil | C24 | 4100080 | 866 pF 2,5% 63V |
| C9 | 4100044 | 440 pF 1% 63V | C25 | 4100079 | 590 pF 2,5% 63V |
| C10 | 4201057 | 1 μ F 35V | C26 | 4100079 | 590 pF 2,5% 63V |
| C11 | 4201058 | 0,47 μ F 35V | C27 | 4130089 | 22 nF 10% 10% 250V |
| C12 | 4130104 | 0,22 μ F 20% 100V | C28 | 4130089 | 22 nF 10% 250V |
| C13 | 4130114 | 0,47 μ F 10% 100V | C29 | 4200296 | 2,2 μ F 63V |
| C14 | 4200333 | 1 μ F 63V | C30 | 4200296 | 2,2 μ F 63V |
| C15 | 4100081 | 2,15 nF 2,5% 63V | C31 | 4130150 | 0,1 μ F 20% 100V |
| C16 | 4200333 | 1 μ F 63V | C32 | 4200097 | 220 μ F 16V |
| C17 | 4100081 | 2,15 nF 2,5% 63V | | | |

| | | | | | |
|----|---------|---------|----|---------|---------------|
| L2 | 8022066 | 114 kHz | P5 | 7210135 | Socket 6 pol. |
| L3 | 8022079 | 78 mH | P9 | 7210134 | Socket 5 pol. |
| L4 | 8022079 | 78 mH | | | |
| L5 | 8022079 | 78 mH | | 7500080 | Contact pin |
| L6 | 8022079 | 78 mH | | | |

PRE-AMPLIFIER PC4, 8052101

| | | | | | |
|------|---------|--------------------|------|---------|--------------------|
| R1 | 5010045 | 47 KOhms 5% 1/8W | R118 | 5010048 | 4,7 KOhms 5% 1/8W |
| R100 | 5010077 | 470 KOhms 5% 1/8W | R119 | 5370061 | 50 KOhms 20% LIN. |
| R101 | 5010092 | 220 Ohms 5% 1/8W | R120 | 5010064 | 2,2 KOhms 5% 1/8W |
| R102 | 5010045 | 47 KOhms 5% 1/8W | R121 | 5010054 | 1 MOhms 5% 1/8W |
| R103 | 5010044 | 330 Ohms 5% 1/8W | R122 | 5011074 | 2,2 MOhms 10% 1/4W |
| R104 | 5010083 | 270 KOhms 5% 1/8W | R123 | 5011071 | 1,5 MOhms 10% 1/4W |
| R105 | 5010047 | 120 KOhms 5% 1/8W | R124 | 5010059 | 10 KOhms 5% 1/8W |
| R106 | 5010066 | 1,8 KOhms 5% 1/8W | R125 | 5010048 | 4,7 KOhms 5% 1/8W |
| R107 | 5010092 | 220 Ohms 5% 1/8W | R126 | 5370061 | 50 KOhms 20% LIN. |
| R108 | 5010048 | 4,7 KOhms 5% 1/8W | R127 | 5011071 | 1,5 MOhms 10% 1/4W |
| R109 | 5010058 | 470 Ohms 5% 1/8W | R128 | 5011071 | 1,5 MOhms 10% 1/4W |
| R110 | 5010705 | 220 KOhms 2% 1/4W | R129 | 5010079 | 22 KOhms 5% 1/8W |
| R111 | 5020075 | 36,5 KOhms 1% 1/8W | R130 | 5010059 | 10 KOhms 5% 1/8W |
| R112 | 5370061 | 50 KOhms 20% LIN. | R131 | 5010047 | 120 KOhms 5% 1/8W |
| R113 | 5010064 | 2,2 KOhms 5% 1/8W | R132 | 5010077 | 470 KOhms 5% 1/8W |
| R114 | 5010054 | 1 MOhms 5% 1/8W | R134 | 5010298 | 2,7 KOhms 5% 1/8W |
| R115 | 5011074 | 2,2 MOhms 10% 1/4W | R135 | 5010298 | 2,7 KOhms 5% 1/8W |
| R116 | 5010071 | 1,5 MOhms 10% 1/4W | R136 | 5010298 | 2,7 KOhms 5% 1/8W |
| R117 | 5010059 | 10 KOhms 5% 1/8W | | | |

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| | | | | | |
|------|---------|---------------------|------|---------|----------------------|
| C1 | 4201074 | 47 µF 40V | C109 | 4010008 | 1 nF -20 +50% 400V |
| C2 | 4010008 | 1 nF -20 +50% 400V | C110 | 4000021 | 6,8 pF ± 0.25 pF 63V |
| C3 | 4010060 | 22 nF -20 +100% 40V | C111 | 4201035 | 2,2 µF 63V |
| C100 | 4130152 | 2,2 µF 10% 100V | C113 | 4200333 | 1 µF 63V |
| C101 | 4130100 | 68 nF 10% 250V | C114 | 4010008 | 1 nF -20 +50% 400V |
| C102 | 4000029 | 220 pF 5% 63V | C115 | 4000021 | 6,8 pF ± 0.25 pF 63V |
| C103 | 4000091 | 68 pF 2% 63V | C116 | 4201035 | 2,2 µF 63V |
| C104 | 4100076 | 2,7 nF 2,5% 63V | C117 | 4200333 | 1 µF 63V |
| C105 | 4100075 | 10 nF 2% 63V | C118 | 4010008 | 1 nF -20 +50% 400V |
| C106 | 4201035 | 2,2 µF 63V | C119 | 4000021 | 6,8 pF ± 0.25 pF 63V |
| C108 | 4200333 | 1 µF 63V | C120 | 4200333 | 1 µF 63V |

| | | | | |
|-----|---------|----------------|---------|-------------------|
| P14 | 7210138 | Socket/housing | 7212013 | Socket 5 pol. DIN |
| | 7500114 | Contact pin | 6140115 | PC for DIN-socket |

AF AMPLIFIER, POWER SUPPLY, MUTING AND SILENT TUNING PC5, 8002307

| | | | | | |
|-----|---------|--------------------|------|---------|-------------------|
| R1 | 5001039 | 5,6 KOhms 10% 1/2W | R46 | 5010074 | 680 KOhms 5% 1/8W |
| R2 | 5010069 | 3,9 KOhms 5% 1/8W | R47 | 5010074 | 680 KOhms 5% 1/8W |
| R3 | 5010053 | 15 KOhms 5% 1/8W | R50 | 5010076 | 3,3 KOhms 5% 1/8W |
| R4 | 5010059 | 10 KOhms 5% 1/8W | R51 | 5370050 | 1 KOhms 20% LIN. |
| R5 | 5010053 | 15 KOhms 5% 1/8W | R52 | 5010067 | 560 Ohms 5% 1/8W |
| R6 | 5011028 | 1 KOhms 5% 1/4W | R53 | 5370058 | 5 KOhms 20% LIN. |
| R7 | 5010000 | 270 Ohms 5% 1/8W | R101 | 5010076 | 3,3 KOhms 5% 1/8W |
| R8 | 5001001 | 10 Ohms 10% 1/2W | R102 | 5010054 | 1 MOhms 5% 1/8W |
| R10 | 5010506 | 10 Ohms 5% 1/8W | R103 | 5010074 | 680 KOhms 5% 1/8W |
| R11 | 5010075 | 33 KOhms 5% 1/8W | R104 | 5010048 | 4,7 KOhms 5% 1/8W |
| R12 | 5010049 | 100 KOhms 5% 1/8W | R105 | 5010048 | 4,7 KOhms 5% 1/8W |
| R13 | 5010638 | 10 MOhms 10% 1/8W | R106 | 5010047 | 120 KOhms 5% 1/8W |
| R14 | 5010047 | 120 KOhms 5% 1/8W | R107 | 5010077 | 470 KOhms 5% 1/8W |
| R15 | 5010154 | 8,2 KOhms 5% 1/8W | R110 | 5010047 | 120 KOhms 5% 1/8W |
| R16 | 5001036 | 3,3 KOhms 10% 1/2W | R111 | 5010073 | 390 KOhms 5% 1/8W |
| R17 | 5010045 | 47 KOhms 5% 1/8W | R112 | 5020106 | 1,5 KOhms 5% 1/8W |
| R18 | 5010045 | 47 KOhms 5% 1/8W | R113 | 5010048 | 4,7 KOhms 5% 1/8W |
| R19 | 5010045 | 47 KOhms 5% 1/8W | R114 | 5020108 | 3,9 KOhms 5% 1/8W |
| R20 | 5010045 | 47 KOhms 5% 1/8W | R115 | 5010615 | 100 KOhms 5% 1/8W |
| R21 | 5010059 | 10 KOhms 5% 1/8W | R116 | 5010067 | 560 Ohms 5% 1/8W |
| R22 | 5010045 | 47 KOhms 5% 1/8W | R117 | 5010141 | 27 KOhms 5% 1/8W |
| R23 | 5010041 | 5,6 KOhms 5% 1/8W | R118 | 5010054 | 1 MOhms 5% 1/8W |
| R24 | 5010708 | 22 Ohms 5% 1/8W | R119 | 5010048 | 4,7 KOhms 5% 1/8W |
| R25 | 5010411 | 47 Ohms 5% 1/8W | R120 | 5010048 | 4,7 KOhms 5% 1/8W |
| R26 | 5010045 | 47 KOhms 5% 1/8W | R122 | 5010047 | 120 KOhms 5% 1/8W |
| R27 | 5010063 | 150 KOhms 5% 1/8W | R123 | 5010047 | 120 KOhms 5% 1/8W |
| R28 | 5010048 | 4,7 KOhms 5% 1/8W | R124 | 5010048 | 4,7 KOhms 5% 1/8W |
| R29 | 5010135 | 18 KOhms 5% 1/8W | R125 | 5010048 | 4,7 KOhms 5% 1/8W |
| R30 | 5010059 | 10 KOhms 1/8W | R126 | 5010075 | 33 KOhms 5% 1/8W |
| R31 | 5010064 | 2,2 KOhms 5% 1/8W | R127 | 5010059 | 10 KOhms 5% 1/8W |
| R32 | 5010120 | 220 KOhms 5% 1/8W | R128 | 5010059 | 10 KOhms 5% 1/8W |
| R33 | 5011075 | 2,7 MOhms 5% 1/4W | R129 | 5010047 | 120 KOhms 5% 1/8W |
| R35 | 5001008 | 47 Ohms 10% 1/2W | R130 | 5010048 | 4,7 KOhms 5% 1/8W |
| R36 | 5010615 | 100 KOhms 5% 1/8W | R131 | 5010041 | 5,6 KOhms 5% 1/8W |
| R37 | 5010045 | 47 KOhms 5% 1/8W | R132 | 5010066 | 1,8 KOhms 5% 1/8W |
| R38 | 5010048 | 4,7 KOhms 5% 1/8W | R133 | 5010076 | 3,3 KOhms 5% 1/8W |
| R39 | 5010059 | 10 KOhms 5% 1/8W | R136 | 5010041 | 5,6 KOhms 5% 1/8W |
| R40 | 5230008 | 50 Ohms 30% PTC | R137 | 5010066 | 1,8 KOhms 5% 1/8W |
| R41 | 5010074 | 680 KOhms 5% 1/8W | R138 | 5010120 | 220 KOhms 5% 1/8W |
| R42 | 5010074 | 680 KOhms 5% 1/8W | R139 | 5010048 | 4,7 KOhms 5% 1/8W |
| R43 | 5010074 | 680 KOhms 5% 1/8W | R140 | 5010615 | 100 KOhms 5% 1/8W |
| R44 | 5010053 | 15 KOhms 5% 1/8W | R141 | 5010063 | 150 KOhms 5% 1/8W |
| R45 | 5010074 | 680 KOhms 5% 1/8W | R142 | 5010615 | 100 KOhms 5% 1/8W |

AF AMPLIFIER PC5, 8002307
COND.T.

| | | | | | |
|------|---------|--------------------|------|---------|-------------------|
| R143 | 5010059 | 10 KOhms 5% 1/8W | R167 | 5010059 | 10 KOhms 5% 1/8W |
| R144 | 5010054 | 1 MOhms 5% 1/8W | R168 | 5020089 | 220 Ohms 10% 0,7W |
| R145 | 5010054 | 1 MOhms 5% 1/8W | R169 | 5010135 | 18 KOhms 5% 1/8W |
| R146 | 5010615 | 100 KOhms 5% 1/8W | R170 | 5010135 | 18 KOhms 5% 1/8W |
| R147 | 5010048 | 4,7 KOhms 5% 1/8W | R171 | 5010044 | 330 Ohms 5% 1/8W |
| R148 | 5010046 | 12 KOhms 5% 1/8W | R172 | 5010044 | 330 Ohms 5% 1/8W |
| R149 | 5010048 | 4,7 KOhms 5% 1/8W | R173 | 5010039 | 68 Ohms 5% 1/8W |
| R152 | 5010076 | 3,3 KOhms 5% 1/8W | R174 | 5010039 | 68 Ohms 5% 1/8W |
| R153 | 5010144 | 680 Ohms 5% 1/8W | R176 | 5010362 | 180 Ohms 5% 1/8W |
| R154 | 5010079 | 22 KOhms 5% 1/8W | R177 | 5370208 | 100 Ohms 20% LIN. |
| R155 | 5010247 | 1,5 KOhms 5% 1/8W | R178 | 5100224 | 0,18 Ohms 10% 2W |
| R156 | 5010253 | 33 Ohms 5% 1/8W | R179 | 5100224 | 0,18 Ohms 10% 2W |
| R157 | 5010144 | 680 Ohms 5% 1/8W | R180 | 5011028 | 1 KOhms 5% 1/4W |
| R158 | 5010040 | 1 KOhms 5% 1/8W | R181 | 5011026 | 820 Ohms 5% 1/4W |
| R159 | 5010066 | 1,8 KOhms 5% 1/8W | R182 | 5011024 | 680 Ohms 5% 1/4W |
| R160 | 5010067 | 560 Ohms 5% 1/8W | R183 | 5011024 | 680 Ohms 5% 1/4W |
| R162 | 5010064 | 2,2 KOhms 5% 1/8W | R184 | 5011026 | 820 Ohms 5% 1/4W |
| R163 | 5010079 | 22 KOhms 5% 1/8W | R185 | 5011028 | 1 KOhms 5% 1/4W |
| R164 | 5001167 | 2,2 KOhms 10% 1/2W | R186 | 5020087 | 4,7 Ohms 10% 0.7W |
| R165 | 5010151 | 56 Ohms 5% 1/8W | R187 | 5010064 | 2,2 KOhms 5% 1/8W |
| R166 | 5010411 | 47 Ohms 5% 1/8W | R188 | 5010059 | 10 KOhms 5% 1/8W |

| | | | | | |
|------|---------|--------------------------|------|---------|-------------------------|
| C1 | 4133015 | 0,1 μ F 10% 250V | C117 | 4000013 | 270 pF 10% 100V |
| C2 | 4200299 | 220 μ F 40V | C118 | 4130109 | 10 nF 10% 250V |
| C3 | 4200332 | 2200 μ F 25V | C119 | 4010024 | 470 pF 10% 100V |
| C4 | 4133015 | 0,1 μ F 10% 250V | C120 | 4130100 | 68 μ F 10% 250V |
| C5 | 4010008 | 1 nF -20 +50% 400V | C121 | 4130100 | 68 nF 10% 250V |
| C6 | 4200358 | 220 μ F 63V | C122 | 4130109 | 10 nF 10% 250V |
| C7 | 4200300 | 1000 μ F 16V | C123 | 4201035 | 2,2 μ F 63V |
| C13 | 4200322 | 4,7 μ F 63V | C124 | 4201035 | 2,2 μ F 63V |
| C14 | 4200296 | 2,2 μ F 63V | C126 | 4200333 | 1 μ F 63V |
| C15 | 4200108 | 4,7 μ F 35V | C127 | 4010027 | 1 nF 10% 100V |
| C16 | 4133015 | 0,1 μ F 10% 250V | C128 | 4010021 | 220 pF 10% 100V |
| C17 | 4010027 | 1 nF 10% 100V | C129 | 4010024 | 470 pF 10% 100V |
| C18 | 4010060 | 22 nF -20 +100% 40V | C130 | 4000021 | 6,8 \pm 0.25 pF 63V |
| C19 | 4010060 | 22 nF -20 +100% 40V | C131 | 4000013 | 270 pF 10% 100V |
| C20 | 4130136 | 1 μ F 20% 100V | C132 | 4200333 | 1 μ F 63V |
| C21 | 4130136 | 1 μ F 20% 100V | C133 | 4011025 | 3,3 nF 10% 100V |
| C100 | 4201035 | 2,2 μ F 63V | C134 | 4201060 | 100 μ F 40V |
| C101 | 4000013 | 270 pF 10% 100V | C135 | 4130109 | 10 nF 10% 250V |
| C102 | 4000021 | 6,8 pF \pm 0,25 pF 63V | C136 | 4010060 | 22 nF -20 +100% 40V |
| C103 | 4200322 | 4,7 μ F 63V | C137 | 4010060 | 22 nF -20 +100% 40V |
| C104 | 4200333 | 1 μ F 63V | C138 | 4200364 | 47 μ F 10V |
| C105 | 4000013 | 270 pF 10% 100V | C139 | 4010041 | 10 nF -20 +100% 40V |
| C106 | 4000021 | 6,8 pF \pm 0.25 pF 63V | C140 | 4000086 | 5,6pF \pm 0,25pF 100V |
| C107 | 4130136 | 1 μ F 20% 100V | C141 | 4000063 | 47 pF 2% 63V |
| C108 | 4201035 | 2,2 pF 63V | C143 | 4010041 | 10 nF -20 +100% 63V |
| C109 | 4130100 | 68 nF 10% 250V | C144 | 4010060 | 22 nF -20 +100% 40V |
| C110 | 4130100 | 68 nF 10% 250V | C145 | 4010027 | 1 nF 10% 100V |
| C111 | 4130141 | 8,2 nF 10% 250V | C146 | 4201060 | 100 μ F 40V |
| C112 | 4011025 | 3,3 nF 10% 100V | C147 | 4201060 | 100 μ F 40V |
| C113 | 4000021 | 6,8 pF \pm 0.25 pF 63V | C148 | 4010027 | 1 nF 10% 100V |
| C114 | 4200322 | 4,7 μ F 63V | C149 | 4133015 | 0,1 μ F 10% 250V |
| C115 | 4200322 | 4,7 μ F 63V | C150 | 4133015 | 0,1 μ F 10% 250V |
| C116 | 4201035 | 2,2 μ F 63V | C151 | 4133015 | 0,1 μ F 10% 250V |
| | | | C153 | 4010063 | 4,7 nF 10% 63V |

| | | | | | |
|-----|---------|-------------|------|---------|-------------|
| RL1 | 7600032 | Relay 14,5V | L100 | 6850114 | 0,5 μ H |
|-----|---------|-------------|------|---------|-------------|

| | | | | | |
|-----|---------|-------------|-----|---------|-------------------------------|
| P2 | 7220126 | 6 pins | P16 | 7220122 | 3 pins |
| P4 | 7220125 | 4 pins | P17 | 7220124 | 8 pins |
| P5 | 7220127 | 5 pins | P18 | 7220115 | 6 pin |
| P9 | 7220127 | 5 pins | P19 | 7220122 | 3 pins |
| P11 | 7500080 | Contact pin | P20 | 7220124 | 8 pins |
| P12 | 7500080 | Contact pin | | 7500127 | Crimp contact for transistors |
| P15 | 7220115 | 6 pins | | | |

AERIAL INPUT PC7, 8002326

C1 4010008 1 nF -20 +50% 400V
C2 4010008 1 nF -20 +50% 400V

L1 8010142 240 - 75 Ohms

LOUDNESS PC8, 8002304

R10 5010154 8,2 KOhms 5% 1/8W
R11 5010092 220 Ohms 5% 1/8W
R12 5010064 2,2 KOhms 5% 1/8W

C10 4201069 2,2 uF 35V
C11 4010061 2,2 nF 10% 63V

P13 7210157 Socket
0593070 Solder lug

PUSHBUTTON SWITCH PC 6 AND 9, 7400144

6R1 5370173 2,5 KOhms 20% LIN.
6R2 5010298 2,7 KOhms 5% 1/8W
6R4 5011015 150 Ohms 5% 1/4W
6R5 5011013 100 Ohms 5% 1/4W
6R6 5010061 56 KOhms 5% 1/8W
6R7 5010043 1 KOhms 5% 1/8W
9R1 5010061 56 KOhms 5% 1/8W
9R100 5002016 180 Ohms 10% 1W
9R200 5002016 180 Ohms 10% 1W

P13 7220120 12 pins
6140116 Flexible PC-board

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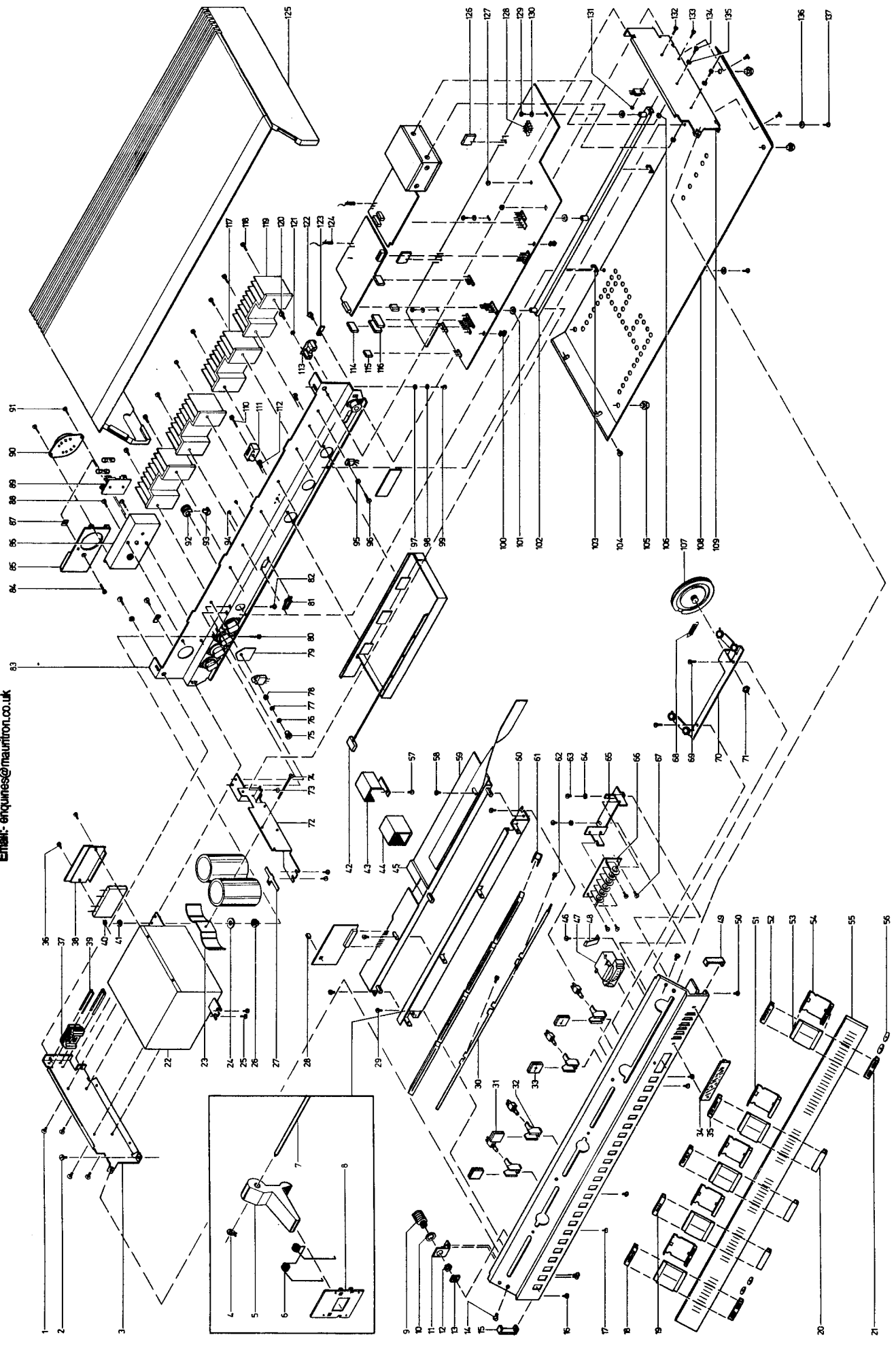
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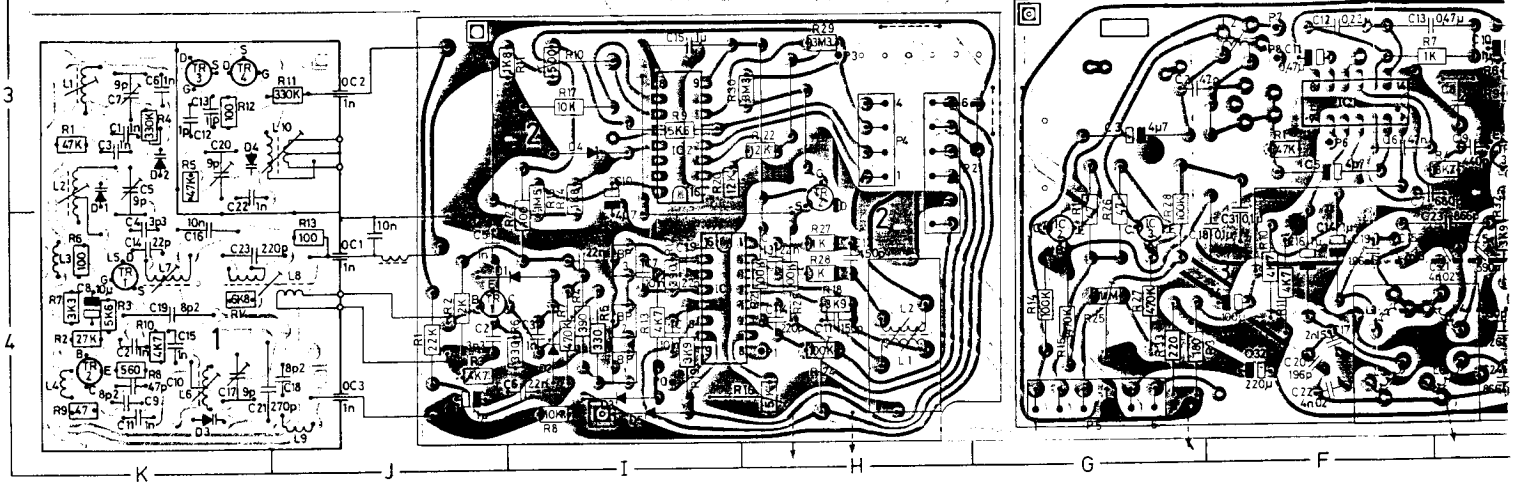
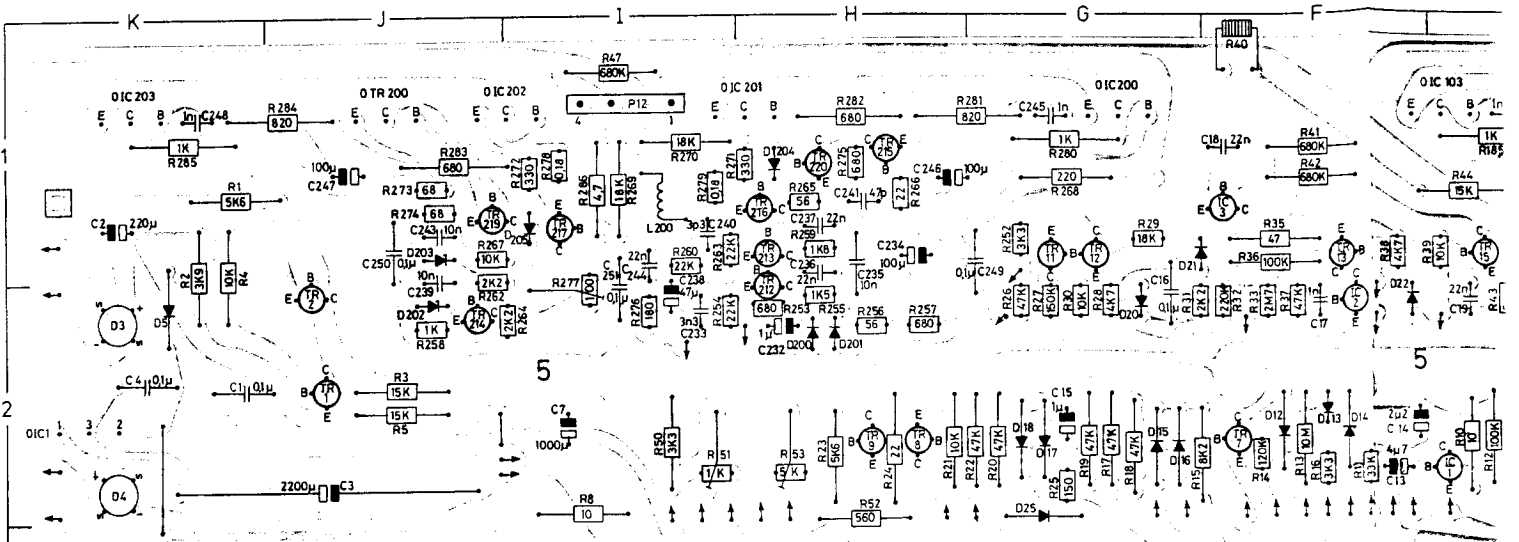
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|----|---------|-------------------------------|----|---------|---------------------------------|-----|---------|---------------------------------|
| 1 | 2043007 | Screw AM 4 x 6 DIN 965, black | 47 | 8450016 | Indicator | 92 | 2641061 | Bushing |
| 2 | 2042203 | Screw AM 4 x 5 DIN 84 | 48 | 8450021 | Indicator, black | 93 | 2641062 | Locking plate |
| 3 | 3470071 | Bracket | 49 | 3151042 | Bronze spring | 94 | 2034029 | Screw AM 2 x 4 DIN 963, black |
| 4 | 2390036 | Locking ring | 49 | 2568321 | End piece | 95 | 2622014 | Fibre washer |
| 5 | 2775070 | Pushbutton | 50 | 2568347 | End piece, black | 96 | 2038926 | Screw AM 3 x 6 DIN 84, black |
| | 2775198 | Pushbutton, black | 50 | 2568431 | Front moulding | | | |
| 6 | 2819017 | Spring | 51 | 2568432 | Front moulding, black | 97 | 2620028 | Rubber washer |
| 7 | 2830029 | Shaft | 51 | 3015046 | Slide | 98 | 2622015 | Washer |
| 8 | 3164061 | Cover plate | 52 | 3015075 | Slide, black | 99 | 2038208 | Screw AM 3 x 5 DIN 84 |
| | 3164137 | Cover plate, black | 52 | 3302119 | Screen TUNING | 100 | 3152063 | Holder |
| 9 | 7212018 | Jack-socket | 53 | 3302098 | Screen TUNING, black | 101 | 2938034 | Insulation bushing |
| 10 | 2622157 | Washer | 53 | 3190066 | Pointer | 102 | 2542430 | Bracket |
| 11 | 2530132 | Bracket | 54 | 3015011 | Slide | 103 | 3152025 | Holder |
| 12 | 2380078 | Nut | 55 | 3015037 | Slide, black | 104 | 2042936 | Screw AM 4 x 6 DIN 84, black |
| 13 | 3341002 | Cover plate | 55 | 3191081 | Front moulding | 105 | 0585027 | Rubber foot |
| | 3341007 | Cover plate, black | 56 | 3191079 | Front moulding, black | 106 | 2620028 | Rubber washer |
| 14 | 2042945 | Screw AM 4 x 6 DIN 963 | 56 | 2794023 | Wheel | 107 | 5300098 | Potentiometer |
| 15 | 2568322 | End piece | 57 | 2794031 | Wheel, black | 108 | 3454210 | Bottom plate |
| | 2568348 | End piece, black | 57 | 2039007 | Screw, AM 3 x 3 DIN 7985 | 109 | 3470070 | Bracket |
| 16 | 2038248 | Screw AM 3 x 4 DIN 84, black | 58 | 2038201 | Screw AM 3 x 3 DIN 84 | 110 | 2038068 | Screw AM 3 x 35 DIN 84, black |
| 17 | 2038248 | Screw AM 3 x 4 DIN 84, black | 59 | 7400144 | Pushbutton switch, complete | 111 | 3152006 | Holder |
| 18 | 3302263 | Screen, VOLUME | 60 | 2542141 | Bracket | 112 | 2576001 | Spacer |
| | 3302094 | Screen, VOLUME, black | 61 | 2816034 | Holder | 112 | 2043007 | Screw AM 4 x 6 DIN 965, black |
| 19 | 3302262 | Screen BASS | 62 | 2042201 | Screw AM 4 x 4 DIN 84 | 113 | 7211042 | Socket |
| | 3302095 | Screen BASS, black | 63 | 2038248 | Screw AM 3 x 4 DIN 84, black | 114 | 7210128 | Socket/housing |
| 20 | 3302264 | Screen | 64 | 2622041 | Washer | 115 | 7500114 | Contact pin |
| | 3302265 | Screen, black | 65 | 3031022 | Bracket | 115 | 7210113 | Socket/housing |
| 21 | 3302110 | Screen | 66 | 5320010 | Potentiometer | 116 | 7500114 | Contact pin |
| | 3302092 | Screen, black | 67 | 5320018 | Potentiometer, black | 116 | 7210155 | Socket/housing |
| 22 | 8013164 | Mains transformer | 67 | 2038051 | Screw AM 3 x 4 DIN 84, black | 117 | 7500114 | Contact pin |
| 23 | 2514030 | Clamp | 68 | 2810017 | Spring | 118 | 2568382 | Heat sink |
| 24 | 2938095 | Rubber bushing | 69 | 2039007 | Screw AM 3 x 3 DIN 7985 | 118 | 2038067 | Screw AM 3 x 22 DIN 84, black |
| 25 | 2038248 | Screw AM 3 x 4 DIN 84, black | 70 | 2542444 | Bracket | 119 | 2568381 | Heat sink, milled |
| 26 | 2932075 | Bushing | 71 | 2380047 | Nut M7 x 0.75 | 120 | 2043005 | Screw AM 4 x 6 DIN 7985, black |
| 27 | 7530077 | Solder tag | 72 | 2542140 | Bracket | 121 | 2625003 | Tooth-lock washer |
| 28 | 2576050 | Spacer | 73 | 2013200 | Screw 2.9 x 6.5 DIN 7981 | 122 | 2042240 | Screw AM 4 x 10 DIN 84, black |
| 29 | 2038248 | Screw AM 3 x 4 DIN 84, black | 74 | 2038241 | Screw AM 3 x 40 DIN 84 | 123 | 2530190 | Bracket |
| 30 | 2530147 | Bracket | 75 | 2389032 | Nut | 124 | 7500084 | Contact pin |
| 31 | 3370077 | Window, red | 76 | 2624032 | Spring washer | 125 | 3412503 | Cabinet, rosewood |
| 32 | 3302112 | Holder | 77 | 2622117 | Washer | | 3412504 | Cabinet, oak |
| 33 | 3370078 | Window, red | 78 | 2938109 | Bushing | | 3412491 | Cabinet, teak, black front |
| 34 | 3164052 | Cover | 79 | 2622250 | Mica sheet | | 3412493 | Cabinet, rosewood, black front |
| 35 | 3302260 | Screen BALANCE | 80 | 2038267 | Screw AM 3 x 16 DIN 84, black | 126 | 7210058 | Socket/housing |
| | 3302097 | Screen BALANCE, black | 81 | 7400102 | Switch | 127 | 7500084 | Contact pin |
| 36 | 2013203 | Screw 2.9 x 13 DIN 7981 | 82 | 2013024 | Screw 2.9 x 6.5 DIN 7981, black | 128 | 2576050 | Spacer |
| 37 | 8022044 | Ambio filter | 83 | 3452283 | Back plate | 129 | 3358027 | Heat sink |
| 38 | 8300274 | Bracket, mounted | 84 | 2039113 | Screw AM 3 x 12 DIN 9788 | 130 | 2013063 | Screw 2.9 x 6.5, black |
| 39 | 2510081 | Clamp | 85 | 3164249 | Cover (4400) | 131 | 2622014 | Fibre washer |
| 40 | 2380011 | Nut M3 | 86 | 3164238 | Cover (4401) | 132 | 2380011 | Nut M3 |
| 41 | 2622022 | Washer | 87 | 3131016 | Housing | 133 | 2038951 | Screw AM 3 x 6 DIN 963 |
| 42 | 7210138 | Socket/housing | 88 | 2390020 | Locking plate | 134 | 2013008 | Screw 2.9 x 6.5 DIN 7982, black |
| | 7500114 | Contact pin | 88 | 2038258 | Screw AM 3 x 5 DIN 84, black | 135 | 2039010 | Screw AM 3 x 6 DIN 7985, black |
| 43 | 3302125 | Screen | 89 | 3120192 | Mounting plate | 136 | 2938091 | Bushing |
| 44 | 3300018 | Housing | | 7500033 | Fuse holder | 137 | 2622015 | Washer |
| 45 | 7450010 | Mains switch | | 6600020 | Fuse 2,5A/250V slow | | 2013200 | Screw 2.9 x 6.5 DIN 7981 |
| 46 | 2038051 | Screw AM 3 x 3 DIN 84, black | 90 | 7401001 | Mains-voltage switch | | | |
| | | | 91 | 2013213 | Screw 2.9 x 9.5 DIN 7981, black | | | |

PARTS NOT SHOWN

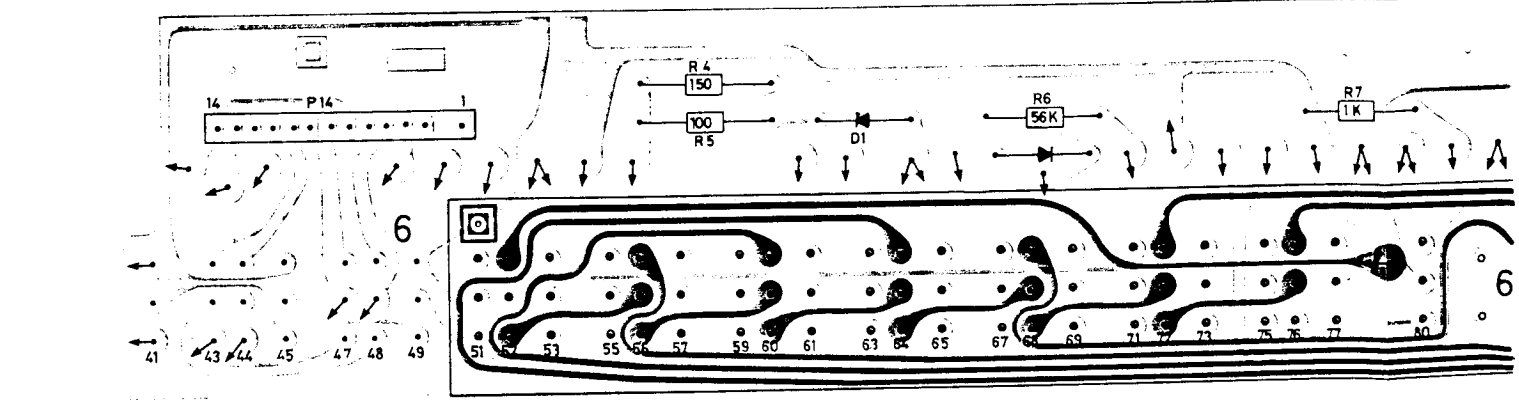
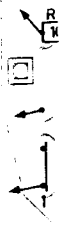
| | |
|---------|-----------------------------|
| 3391486 | Outer carton |
| 3391487 | Top/bottom insert |
| 3397069 | Foam packing |
| 3629006 | Screwdriver |
| 3532116 | Diagram |
| 3955001 | Dial cord |
| 6271101 | Mains lead with euro-plug |
| 7211019 | DIN-socket (loudspeaker) |
| 7211041 | DIN-socket (Aerial 75 Ohms) |

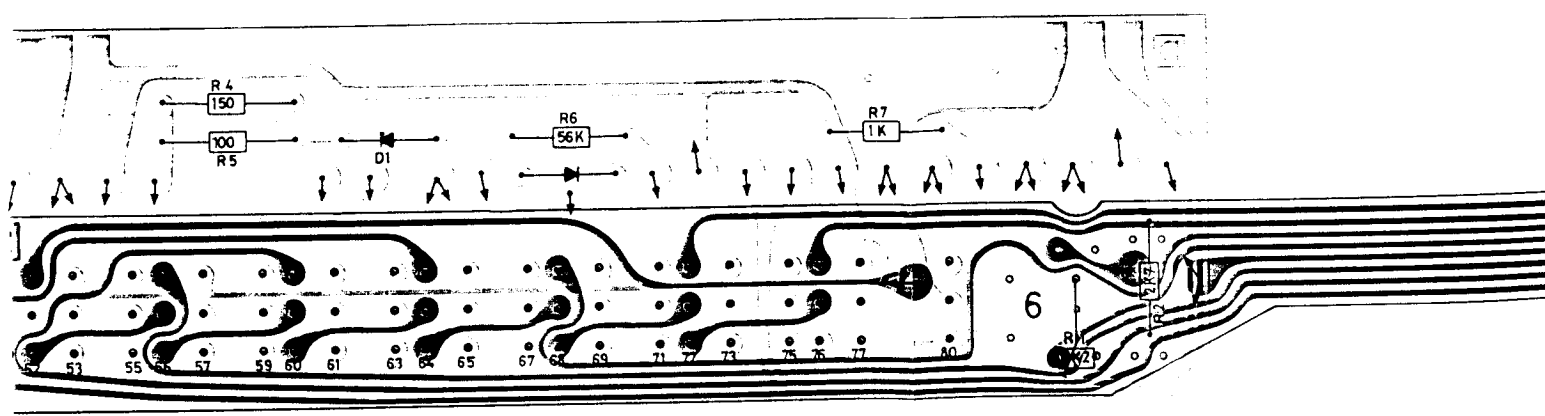
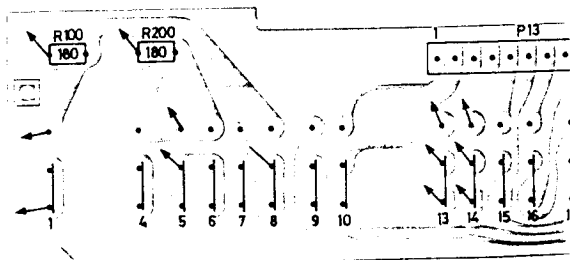
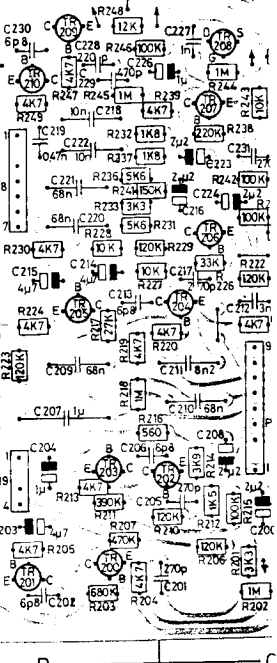
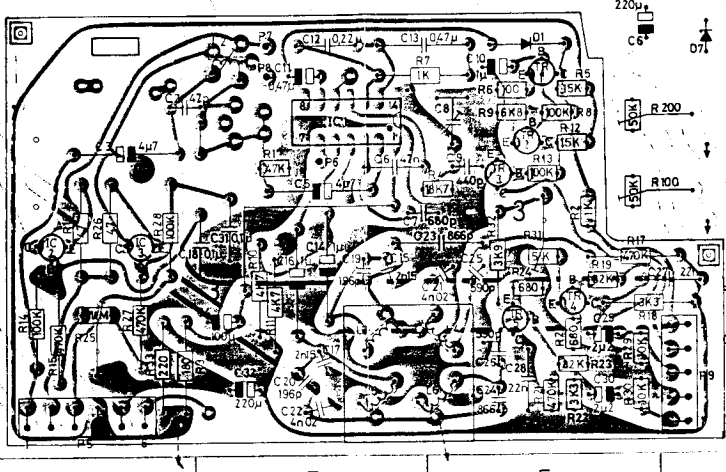
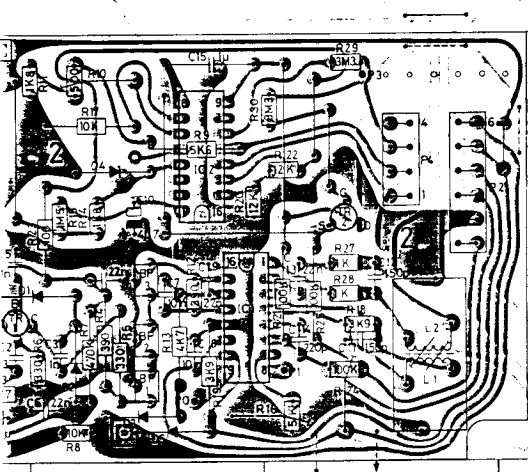
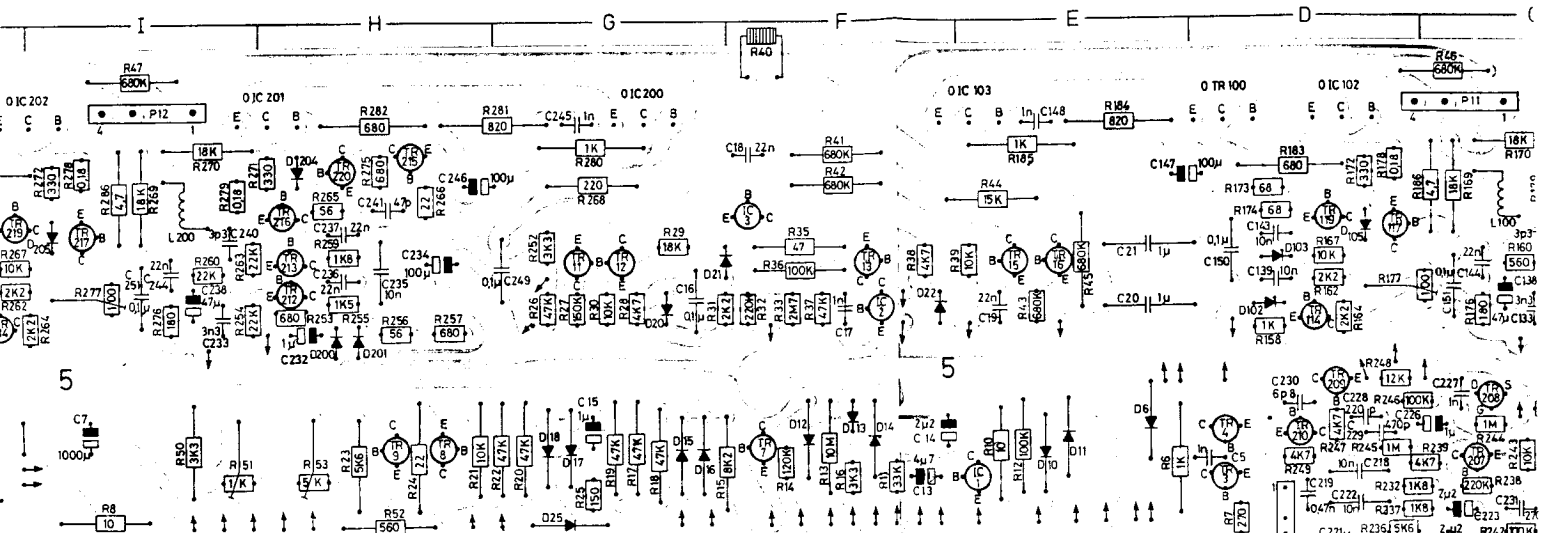
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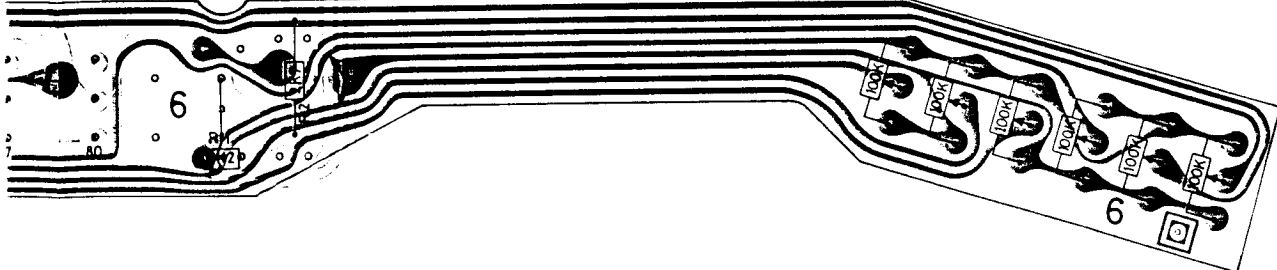
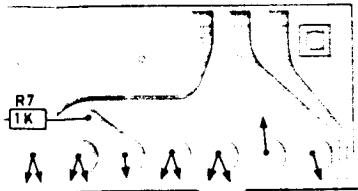
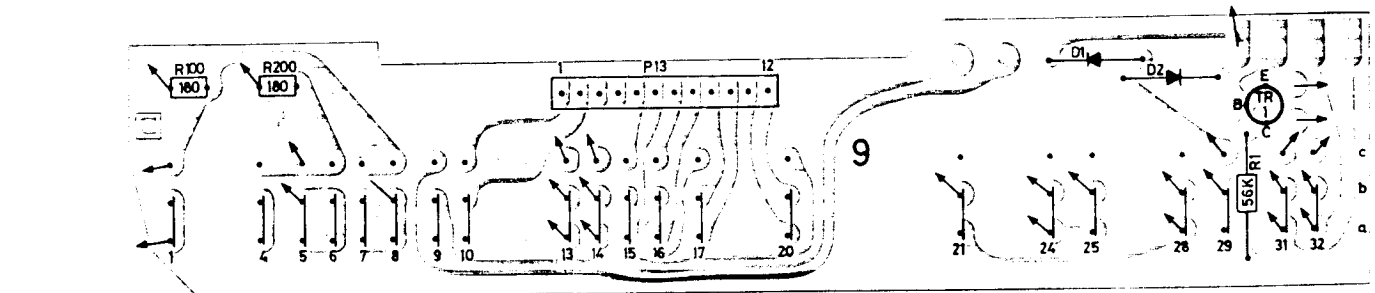
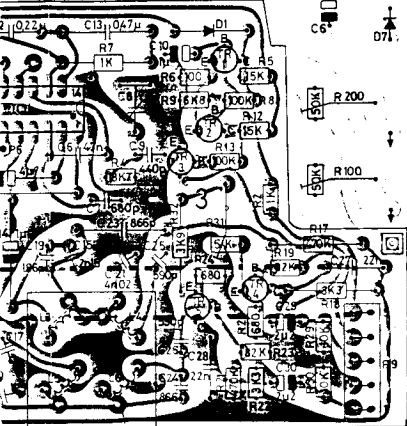
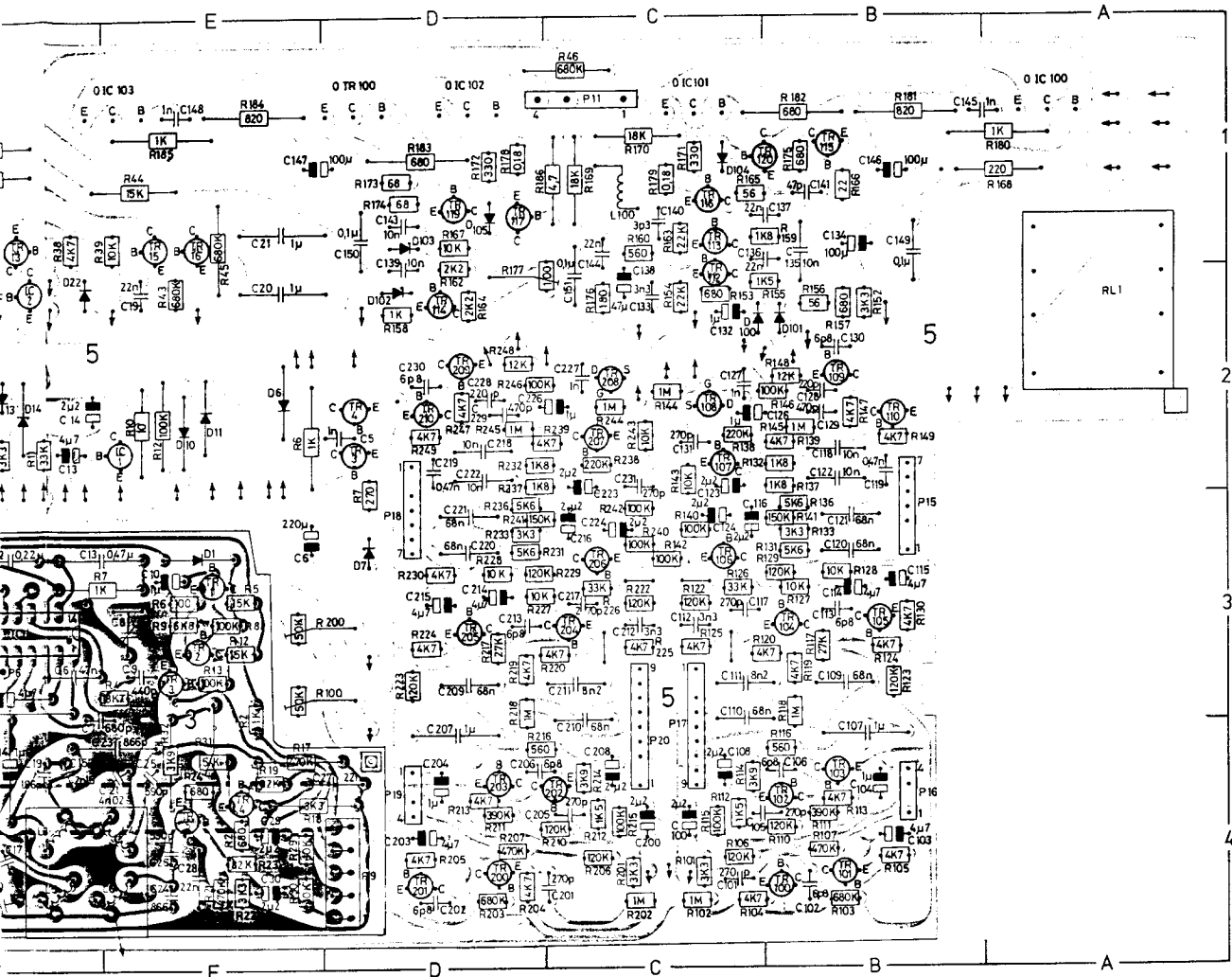




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 Email: enquiries@mauritron.co.uk

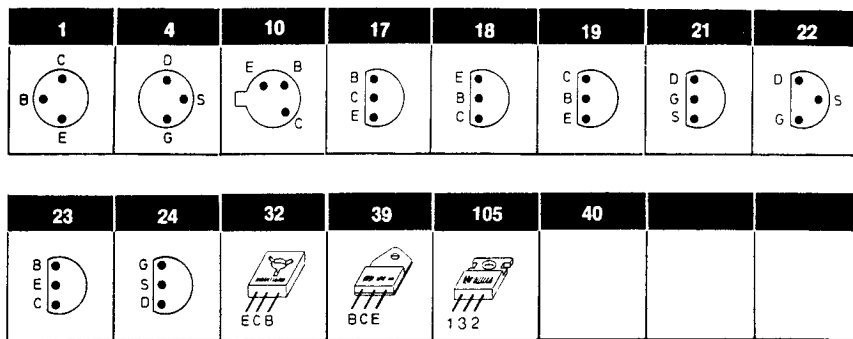






For Service Manuals Contact
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TRANSISTOR AND IC LIST



| | | | | | | | | | | |
|------------|---------|------------|--------------|--------------------|-----------|---------------------|-------|---------|-----------|-----------|
| OTR100/200 | 8320383 | 32 | ON 595 | 3IC1 | 8340103 | MC 1310 | 5TR1 | 8320242 | 18 | BC 256 B |
| | | 32 | BO 135 | | | MC 1310 N | | | | |
| | | 32 | BD 165 S | | | VA 1310 | 5TR2 | 8320148 | 10 | BC 142 |
| OIC1 | 8340064 | 105 | LM 340-15V | 3IC2 | 8340043 | 19 MPSA 13 | 5TR3 | 8320092 | 1 | BC 207 B |
| | | | 105 7815 CU | 3IC3 | | | 5TR4 | | 18 | BC 237 B |
| | | | 105 PA 7815C | | | | | | 18 | BC 547 B |
| OIC100/200 | 8340042 | 39 | TIP 141 | 4TR1 | 8320092 | 1 BC 207 B | | | 18 | BC 182 B |
| OIC101/201 | | | | | | 18 BC 237 B | | | 18 | BC 182 BL |
| | | | | | | 18 BC547 B | | | 18 | BC 182 B |
| OIC102/202 | 8340041 | 39 | TIP 146 | | | 18 BC 182 B | 5TR7 | 8320152 | 18 | BC 212 B |
| OIC103/203 | | | | | | 17 BC 182 BL | | | 17 | BC 212 BL |
| | | | | 4TR100/200*8320344 | 18 | BC 550 B | | | 10 | BC 261 B |
| 1TR1 | 8320136 | 21 | TIS 88A | | | 18 BC 384 BN | | | 18 | BC 251 B |
| | | 21 | 3C2 | | | | | | 18 | BC 307 B |
| | | 4 | U1981E | 4TR101/201*8320095 | 18 | BC 549 B | 5TR8 | 8320108 | 10 | BC 108 B |
| | | 22 | 3C2P | | | 18 BC 184 BN | | | 18 | BC 172 B |
| | | 21 | 2N5245 | | | | | | 1 | BC 113 |
| 1TR2 | 8320112 | 23 | BF 495 | 4TR102/202 | 8320069 | 18 BC 559 B | | | 18 | BC 238 B |
| | | 23 | BF 255 | | | 18 BC 214 B | | | 18 | BC 548 B |
| | | | | | | 17 BC 214 BL | | | 18 | BC 183 B |
| 1TR3 | 8320119 | 21 | TIS 88A | | | 18 BC 309 B | | | 17 | BC 183 BL |
| 1TR4 | | 21 | 2N 5245 | | | 18 BC 253 B | | | 19 | MPS 6515 |
| | | 4 | U 1981 E | 4TR103/203*8320095 | 18 | BC 549 B | | | 1 | BC 114 |
| | | | | | | 18 BC 184 BN | 5TR9 | 8320316 | 18 | BC 327 |
| 2TR1 | 8320311 | 23 | BF 240 | | | | | | | |
| | | | | 4TR104/204*8320069 | 18 | BC 559 B | 5TR11 | 8320152 | 18 | BC 212 B |
| 2TR2 | 8320289 | 24 | 2N 5458 | | | 18 BC 214 B | | | 17 | BC 212 BL |
| | | | | | | 17 BC 214 BL | | | 10 | BC 261 B |
| 2IC1 | 8340033 | | TCA 420 A | | | 18 BC 309 B | | | 18 | BC 251 B |
| | | | | | | 18 BC 253 B | | | 18 | BC 307 B |
| 2IC2 | 8340090 | | TCA 750 | | | | | | | |
| | | | | 4TR105/205 | 8320095 | 18 BC 549 B | 5TR12 | 8320097 | 18 | BC 547 B |
| 3TR1 | 8320097 | 18 | BC 547 B | | | 18 BC 184 BN | | | 18 | BC 237 B |
| 3TR2 | | 18 | BC 237 B | | | | | | 18 | BC 171 B |
| 3TR3 | | 18 | BC 171 B | 4TR106/206 | 8320069 | 18 BC 559 B | | | 19 | BC 317 B |
| | | 19 | BC 317 B | | | 18 BC 214 B | | | 18 | BC 182 B |
| | | 18 | BC 182 B | | | 17 BC 214 BL | | | 17 | BC 182 BL |
| | | 17 | BC 182 BL | | | 18 BC 309 B | | | 1 | BC 207 B |
| | | 1 | BC 207 B | | | 18 BC 253 B | | | | |
| 3TR4 | 8320285 | 18 | BC 183 C | 4IC100/200 | 8340054 | 19 MPSA 13 | 5TR13 | 8320104 | 18 | BC 558 B |
| 3TR5 | | 17 | BC 183 CL | | | | | | 18 | BC 308 B |
| | | | | | | | | | 18 | BC 212 B |
| | | | | | | | | | 17 | BC 212 BL |
| | | | | | | | | | 18 | BC 252 B |

| | | | |
|-------------------------------|---------|----|-----------|
| 5TR15 | 8320108 | 10 | BC 108 B |
| 5TR16 | | 18 | BC 172 B |
| | | 1 | BC 113 |
| | | 18 | BC 238 B |
| | | 18 | BC 548 B |
| | | 18 | BC 183 B |
| | | 17 | BC 183 BL |
| | | 19 | MPS 6515 |
| | | 1 | BC 114 |
| 5TR100/200* | 8320095 | 18 | BC 549 B |
| | | 18 | BC 184 BN |
| 5TR101/201 | 8320069 | 18 | BC 559 B |
| | | 18 | BC 214 B |
| | | 17 | BC 214 BL |
| | | 18 | BC 309 B |
| | | 18 | BC 253 B |
| 5TR102/202* | 8320095 | 18 | BC 549 B |
| | | 18 | BC 184 BN |
| 5TR103/203 | 8320069 | 18 | BC 559 B |
| | | 18 | BC 214 B |
| | | 17 | BC 214 BL |
| | | 18 | BC 309 B |
| | | 18 | BC 253 B |
| 5TR104/204* | 8320095 | 18 | BC 549 B |
| | | 18 | BC 184 BN |
| *Specially selected specimen. | | | |

| | | | |
|-------------|---------|----|-----------|
| 5TR105/205 | 8320069 | 18 | BC 559 B |
| | | 18 | BC 214 B |
| | | 17 | BC 214 BL |
| | | 18 | BC 309 B |
| | | 18 | BC 253 B |
| 5TR106/206* | 8320344 | 18 | BC 550 B |
| 5TR107/207 | | 18 | BC 384 BN |
| 5TR108/208 | 8320289 | 24 | 2N 5458 |
| 5TR109/209* | 8320095 | 18 | BC5493 |
| | | 18 | BC 184 BN |
| 5TR110/210 | 8320069 | 18 | BC 559 B |
| | | 18 | BC 214 B |
| | | 17 | BC 214 BL |
| | | 18 | BC 309 B |
| | | 18 | BC 253 B |
| 5TR112/212* | 8320382 | 18 | BC 547 C |
| 5TR113/213 | | 18 | BC 182 B |
| | | 17 | BC 182 BL |
| | | 18 | BC 237 |
| 5TR114/214 | 8320097 | 18 | BC 547 B |
| | | 18 | BC 237 B |
| | | 18 | BC 171 B |
| | | 19 | BC 317 B |
| | | 18 | BC 182 B |
| | | 17 | BC 182 BL |
| | | 1 | BC 207 B |

| | | | |
|------------|---------|----|-----------|
| 5TR115/215 | 8320365 | 19 | MPSH 54 |
| 5TR116/216 | 8320108 | 10 | BC 108 B |
| | | 18 | BC 172 B |
| | | 1 | BC 113 |
| | | 18 | BC 238 B |
| | | 18 | BC 548 B |
| | | 18 | BC 183 B |
| | | 17 | BC 183 BL |
| | | 19 | MPS 6515 |
| | | 1 | BC 114 |
| 5TR117/217 | 8320104 | 18 | BC 558 B |
| | | 18 | BC 308 B |
| | | 18 | BC 212 B |
| | | 17 | BC 212 BL |
| | | 18 | BC 252 B |
| 5TR119/219 | 8320321 | 19 | MPSA 06 |
| 5TR120/220 | | | |
| 5IC1 | 8340025 | 18 | BC 516 |
| 5IC2 | | 19 | MPSA 65 |
| 5IC3 | | 19 | SPS 5431 |
| 9TR1 | 8320152 | 18 | BC 212 B |
| | | 17 | BC 212 BL |
| | | 10 | BC 261 B |
| | | 18 | BC 251 B |
| | | 18 | BC 307 B |

DIODE LIST

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| | | |
|-----------|---------|---------------|
| 0D5 | 8310023 | B80C5000/3000 |
| 0D6 | 8300195 | TIL 209 A |
| | | LED-5075 B |
| 1D1-1D2 | 8300041 | BB 103 green |
| 1D3 - 1D4 | 8300050 | BB 103 blue |
| 2D1 - 2D3 | 8300058 | IN 4148 |
| | | SFD 184 |
| 2D4 | 8300283 | 6,4V 5% |
| 2D5 | 8300058 | IN 4148 |
| | | SFD 184 |
| 3D1 | 8300058 | IN 4148 |
| | | SFD 184 |
| 4D1 | 8300058 | IN 4148 |
| | | SFD 184 |
| 5D3-5D4 | 8300155 | B40C800 |
| | | B80C800 |
| 5D5-5D6 | 8300058 | IN 4148 |
| | | SFD 184 |
| 5D7 | 8300033 | ZPD 22V -5% |
| | | BZX 79 -22V |

| | | |
|-------------|---------|--------------|
| 5D10 - 5D13 | 8300058 | IN 4148 |
| | | SFD 184 |
| 5D14 | 8300029 | ZPD 12V -5% |
| | | BZX 79 -12V |
| 5D15 - 525 | 8300058 | IN 4148 |
| | | SF 184 |
| 5D100/200 | 8300212 | IN 4448 |
| 5D101/201 | | IN 916 B |
| 5D102/202 | 8300222 | ZPD 2,7V -5% |
| | | BZX 83 -2,7V |
| 5D103/203 | 8300029 | ZPD 12V -5% |
| | | BZX 79 -12V |
| 5D104/204 | 8300058 | IN 4148 |
| 5D105/205 | | SFD 184 |
| 6D1 | 8300128 | ZPD 5,6V -5% |
| | | BZX 79 -5,6V |
| 6D2 | 8300058 | IN 4148 |
| | | SFD 184 |
| 9D1-9D2 | 8300058 | IN 4148 |
| | | SFD 184 |

FM SIGNALNIVEAUER/
FM SIGNAL LEVELS/
UKW SIGNALNIVEAUS

| | |
|------|--------|
| 2TP1 | 20 mV |
| 2TP2 | 500 mV |
| 2TP3 | 50 mV |

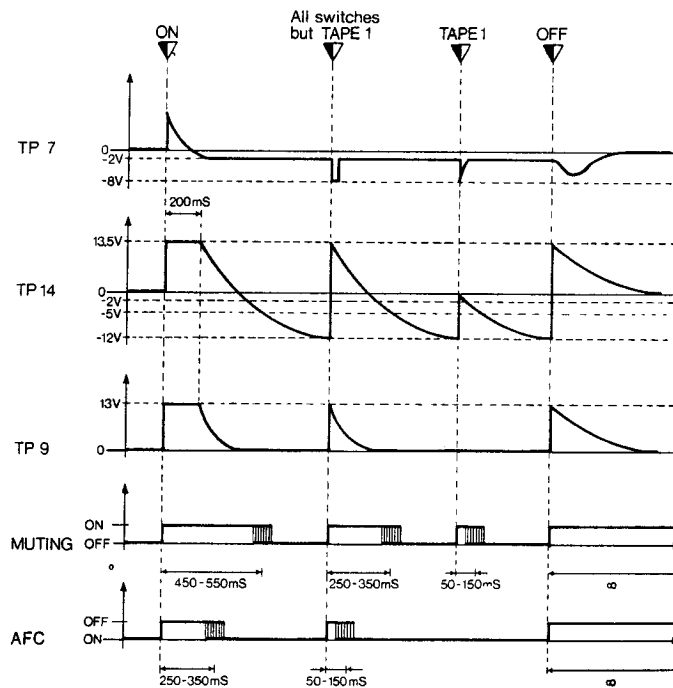
FØLSOMHEDER/SENSITIVITIES/
EMPFINDLICHKEITEN

| | | | |
|------------|--------------------|------------|--------------------|
| 4TP100/200 | 2,2 mV | 5TP102/202 | 538 mV |
| 4TP101/201 | 200 mV | | 492 mV pos. linear |
| 4TP102/202 | 200 mV | 5TP103/203 | 538 mV |
| 5TP100/200 | 166 mV | 5TP104/204 | 492 mV |
| | 152 mV pos. linear | 5TP105/205 | 492 mV |
| 5TP119/219 | 149 mV | 5TP120/220 | 492 mV |
| | 136 mV pos. linear | 5TP107/207 | 443 mV |

TESTPUNKTER/ TESTPOINTS/
TESTPUNKTE

| | |
|------------|--|
| 3TP7 | 19 kHz |
| 5TP109/209 | 2,0 V DC measured in rel. to -35V |
| 5TP110/210 | -2,0 V DC measured in rel. to 5TP113/213 |
| 5TP111/211 | 0 V ± 50 mV |
| 5TP112/212 | -2,0 V DC measured in rel. to 5TP113/213 |
| 5TP113/213 | -0,7 V DC measured in rel. to 5TP114/214 |
| 5TP115/215 | 0,65 V DC measured in rel. to -35V |
| 5TP117/217 | 10 - 15 mV DC measured across both emitter resistors 5R178 and 5R179 (5R278 and 5R279) |

PC 5 TESTPUNKTER/TESTPOINTS/
TESTPUNKTE



| Conditions | FM or P1 - P6 ON, TAPE1 OFF | | | | | | TAPE 1 | FM & P1-P6 |
|------------|-----------------------------|------------------------|-------------------|------------------------|--------------------------|---------|--------|------------|
| | V _{ant} > 10µV | | | | V _{ant} < 2.5µV | | | |
| | AFC-ST. ON | | AFC-ST. OFF | | AFC-ST. | AFC-ST. | | |
| | Indicator balance | Indicator max.off bal. | Indicator balance | Indicator max.off bal. | ON | OFF | | |
| INDICATOR | Balance | OFF Bal. | Balance | OFF Bal. | OFF | OFF | ON | OFF |
| MUTING | OFF | ON | OFF | OFF | ON | OFF | OFF | ON |
| TP6 | 4.6V | 4.6V | 4.6V | 4.6V | 4.6V | 4.6V | ON | 0V |
| TP9 | 0V | 0V | 15V | 15V | 0V | 15V | ON | 0V |
| TP10 | 11V | 11V | 15V | 15V | 0V | 0V | ON | 15V |
| TP20 | 2.75V | 2.75V | 2.75V | 2.75V | 0V | 0V | ON | 0V |
| TP14 | -12V | > 0V | -12V | -12V | > 0V | -12V | ON | -12V |
| TP11 | 4.5V | 4.5V | 4.5V | 4.5V | 8V | 8V | ON | 8V |
| TP12 | 11V | 9V/13V | 11V | 9V/13V | 15V | 15V | ON | 15V |
| TP13 | 11V | 13V/9V | 11V | 13V/9V | 15V | 15V | ON | 15V |

