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 Oxon OX9 4QY  
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 Email: enquiries@mauritron.co.uk

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**INTRODUKTION**

Beocenter 2600, type 2626 er elektrisk identisk med radio og båndoptagerdel i Beocenter 4600, type 2631.

Den elektriske styklister over LF-delen indeholder kun venstre kanals komponenter. Der er taget hensyn til dette ved nummereringen på diagrammet. De to sidste cifre er identiske. Venstre kanal begynder med 100 og højre med 200. Foruden et positionsnummer er hver komponent forsynet med en koordinatbetegnelse, f.eks. B3. Denne betegnelse angiver komponentens placering på PC-pladen, der er inddelt i kvadratiske felter.

I denne serviceanvisning er alle komponentplaceringstegninger vist fra print-siden.

**INTRODUCTION**

Beocenter 2600, type 2626 is electrically identical with the radio and tape recorder circuits in Beocenter 4600, type 2631.

The electrical parts list for the AF section deals with the components of the left channel, only. This has been taken into consideration at the numbering of the diagrams. 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 position of the component on the PC board which is divided into squares.

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

**FM SIGNALNIVEAUER/  
 FM SIGNAL LEVELS/  
 UKW SIGNAL NIVEAUS**

2TP40 8 mV
2TP41 600 mV
2TP42 40 mV

**FØLSOMHEDER/  
 SENSITIVITIES/  
 EMPFINDLICHKEITEN**

6TP100 180 mV
6TP200 180 mV
Tape 200 mV
Phono 2,5 mV

**MÅLEBETINGELSER FOR  
 DIAGRAM:**

Alle DC spændinger er målt i forhold til stel med voltmeter (indre modstand 11 M Ohm).

DC spændinger *uden parentes er målt med modtageren i stilling FM og antennesignal på 500 µV (1 mV EMK) med pilottone, volume på 0.*

DC spændinger i AM delen *uden parentes er målt med MW knappen aktiveret og signal på 1 V tilført kunstantenne (1MHz).*

DC spændinger i parentes er målt uden signal eller med muting aktiveret.

FM signalniveauer er målt ved  $\Delta f$  40 kHz, f mod. 1 kHz og antennesignal på 500 µV, (1 mV EMK).

LF følsomheder er målt ved 25 W output. Balance, bas, diskant på 0, volume på max. Udgang belastet med 4 Ohm, input 1 kHz.

Mekaniske omskiftere er vist i neutral stilling.

Signalvej vist henholdsvis AM (stilling LW), FM og for LF venstre kanal.



**Symbol for sikkerhedsmodstande**

Ved udskiftning af komponenter med dette symbol skal der anvendes samme type, samt samme værdier for ohm og watt. Den nye komponent skal monteres på samme måde som den udskiftede.

**CONDITIONS OF MEASUREMENT  
 FOR DIAGRAM**

All DC voltages are measured in proportion to chassis with voltmeter (inner resistance 11 M Ohm).

DC voltages *without brackets* are measured with the receiver in position FM and an aerial signal of 500 µV (1 mV EMK) with pilot signal, volume on 0.

DC voltages in the AM section *without brackets* are measured with the MW button activated and a signal of 1 V, supplied to the dummy load. (1 MHz).

DC voltages *with brackets* are measured without signal or with muting activated.

FM signal levels are measured at  $\Delta f$  40 kHz, f mod. 1 kHz and aerial signal 500 µV. (1 mV EMK).

AF sensitivities are measured at 25 W output. Balance, bass, treble on 0, volume on max. Output loaded with 4 Ohm, input 1 kHz.

Mechanical switches are shown in neutral position.



**Symbol for safety resistors**

In case of replacement of components with this symbol use the same type and the same values for Ohm and Watt. The new component is to be mounted in the same way as the replaced.

**MESSBEDINGUNGEN FÜR  
 SCHALTBILD**

Alle DC Spannungen sind im Verhältnis zu Chassis mit Voltmeter (inner Widerstand 11 M Ohm) gemessen.

DC Spannungen *ohne Klammern* sind mit dem Empfänger in Stellung FM und dem Antennensignal von 500 µV (1 mV EMK) mit Pilotton gemessen. Volume auf 0.

DC Spannungen im AM Teil *ohne Klammern* sind mit aktiviertem MW Knopf und einem Signal von 1 V an die Kunstantenne zugeleitet gemessen. (1 MHz).

DC Spannungen *in Klammern* sind ohne Signal oder mit aktivierter Stummabstimmung gemessen.

UKW Signalniveaus sind bei  $\Delta f$  40 kHz, f mod. 1 kHz und Antennensignal 500 µV gemessen. (1 mV EMK).

NF Empfindlichkeiten sind an 25 W Ausgang gemessen. Balance, Tiefton, Diskant auf 0, Volume auf max. Ausgang mit 4 Ohm. Eingang 1 kHz belastet.

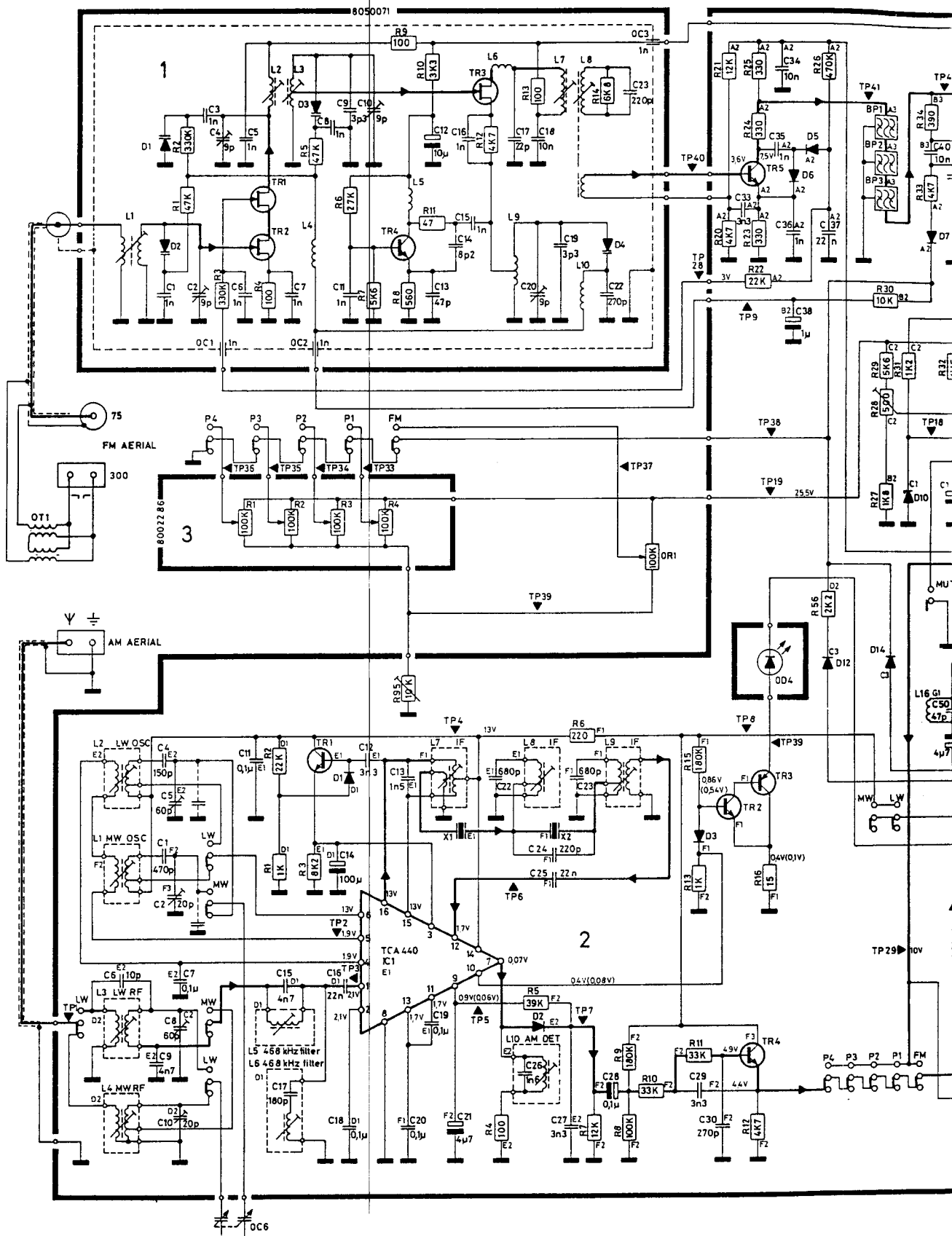
Mechanische Umschalter sind in neutraler Stellung gezeigt.

Signalweg für bzw. AM (Stellung LW), FM und NF linken Kanal gezeigt.

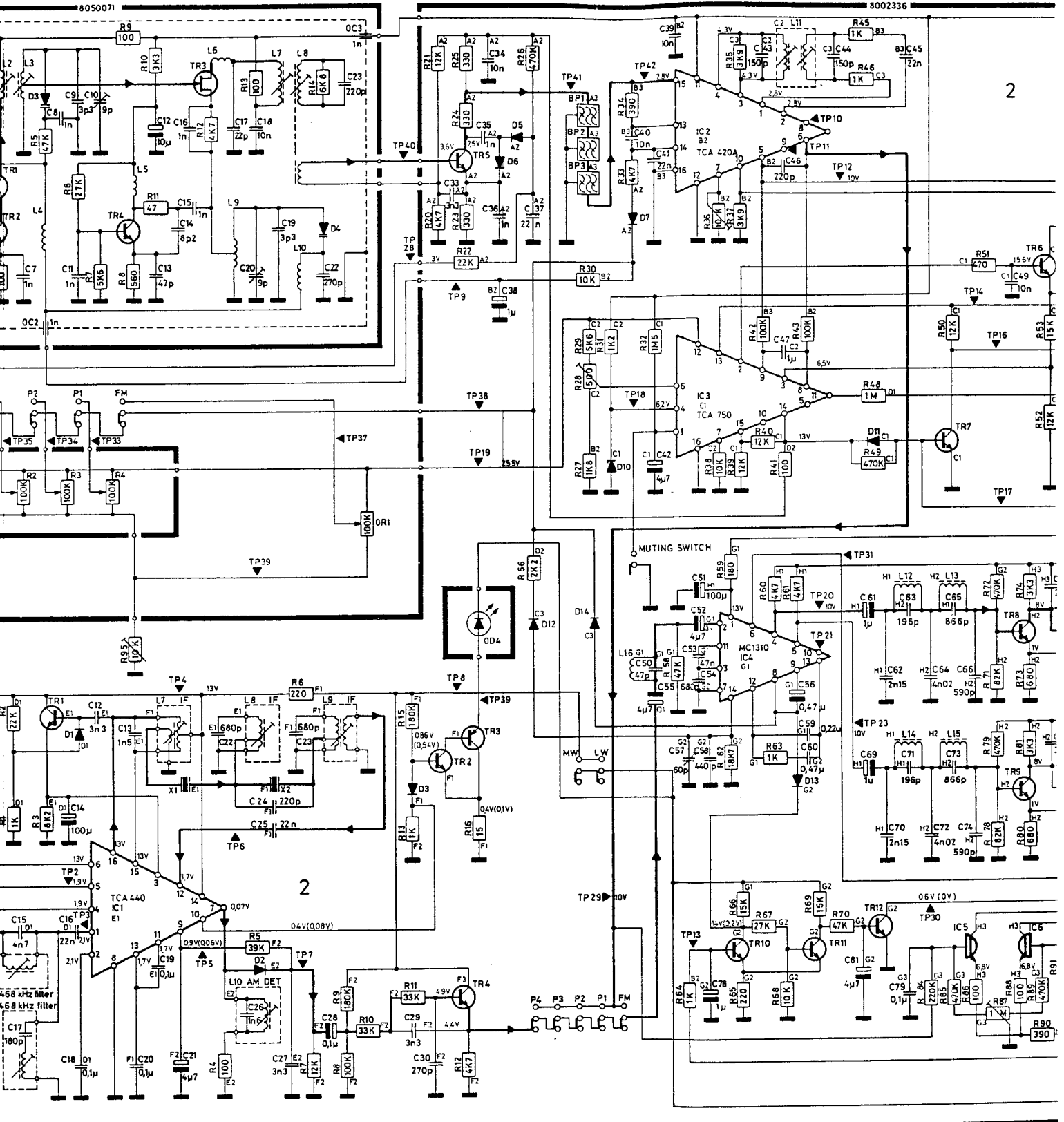


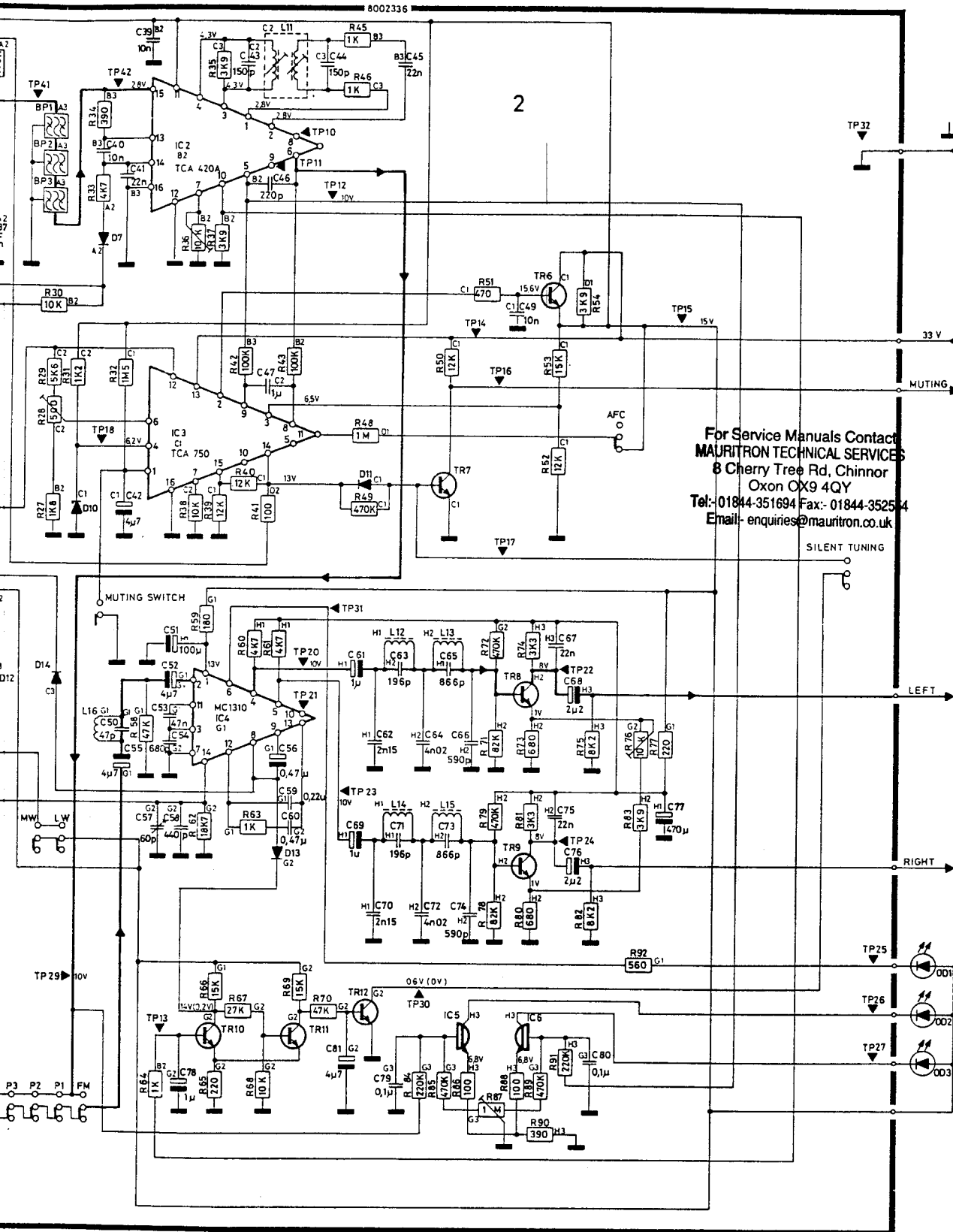
**Symbol für Sicherheitswiderstände**

Bei Auswechslung von Sicherheitswiderständen mit diesem Symbol den gleichen Typ und die gleichen Werte für Ohm und Watt benutzen. Der neue Komponent muß wie der ausgewechselte montiert werden.



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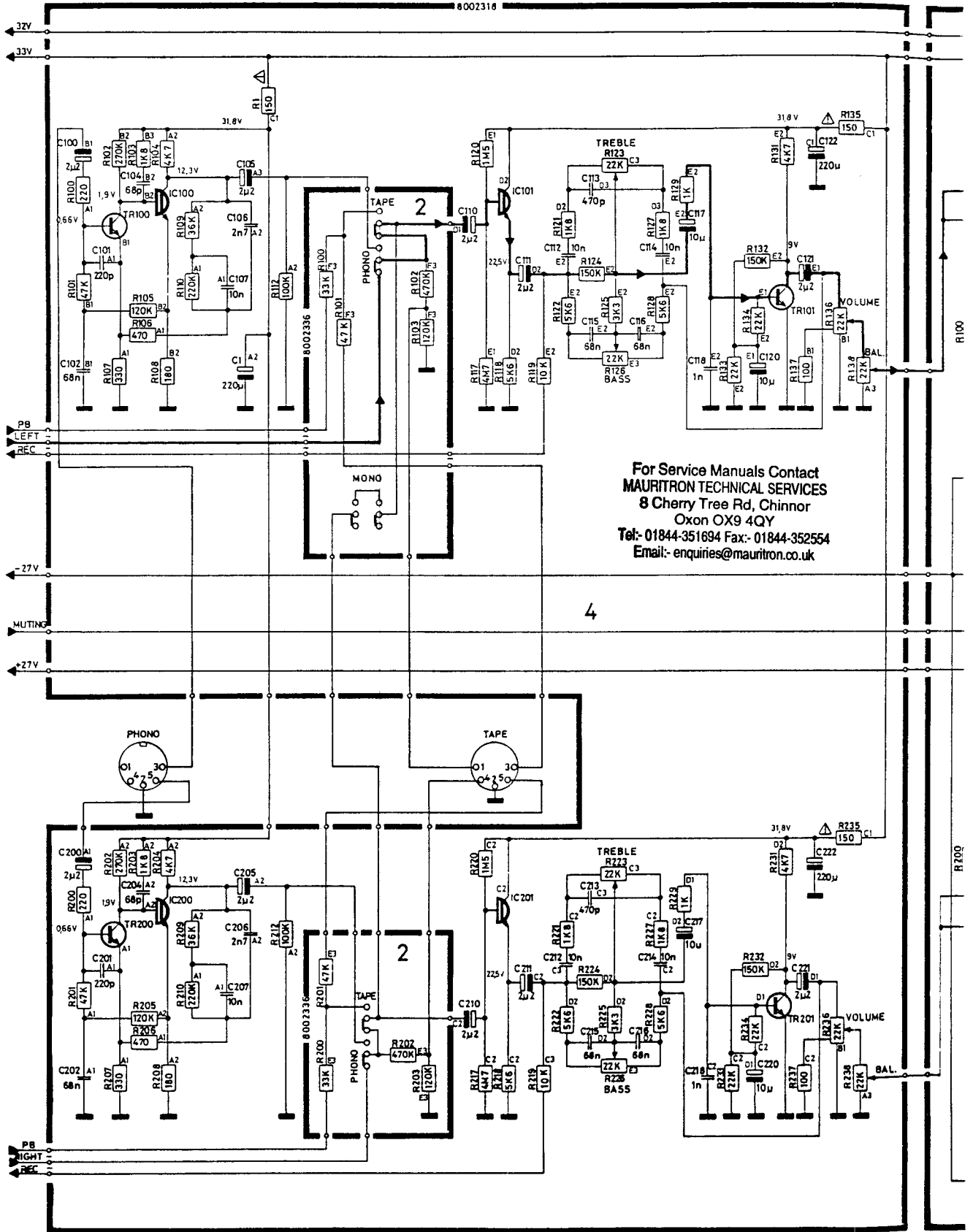




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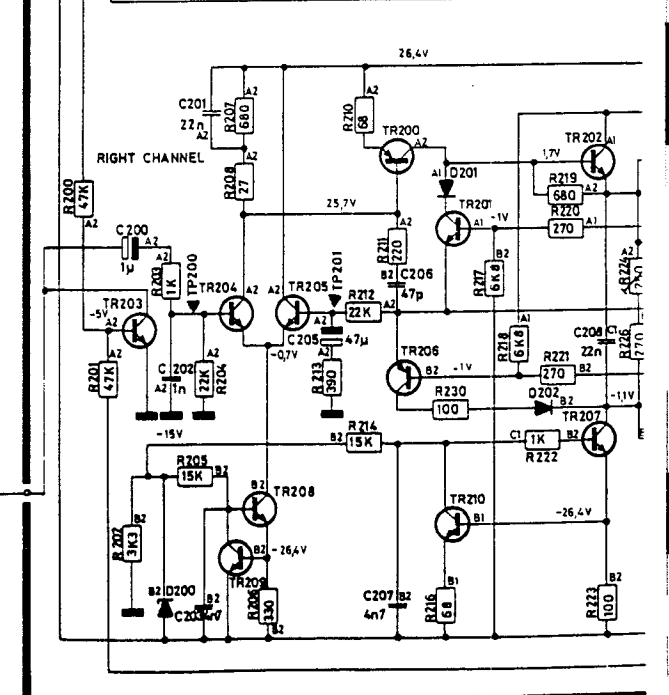
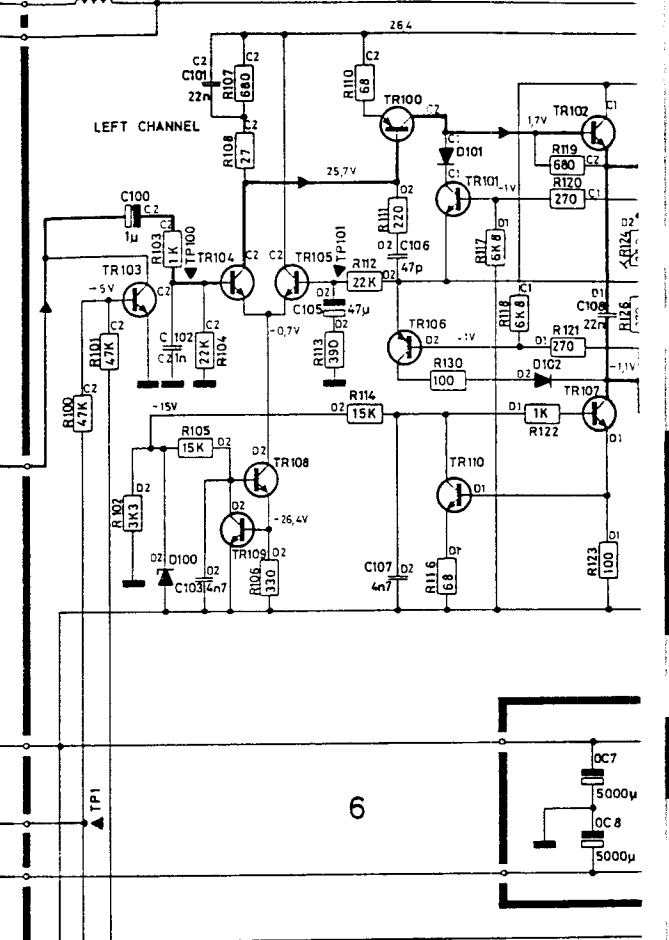
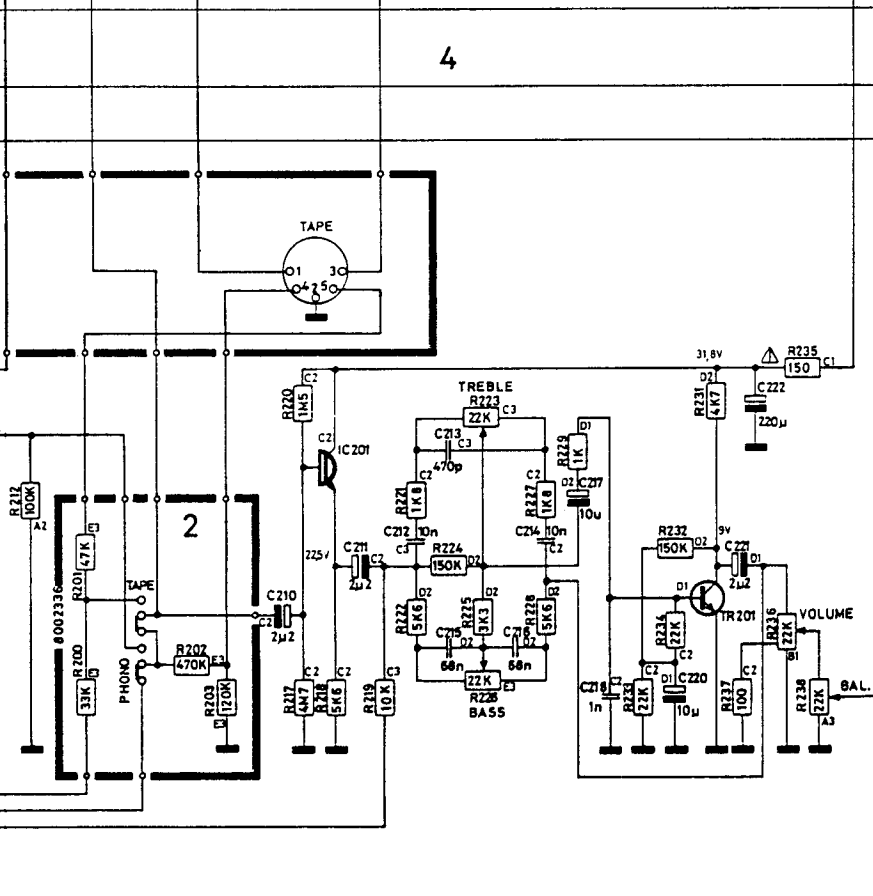
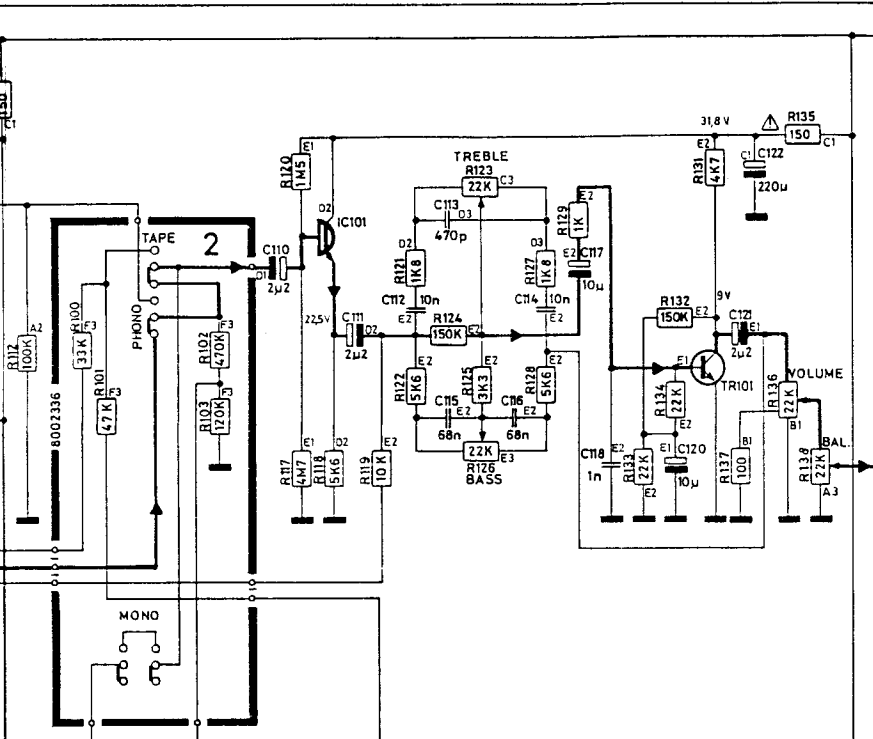
DIAGRAM 1

8002318



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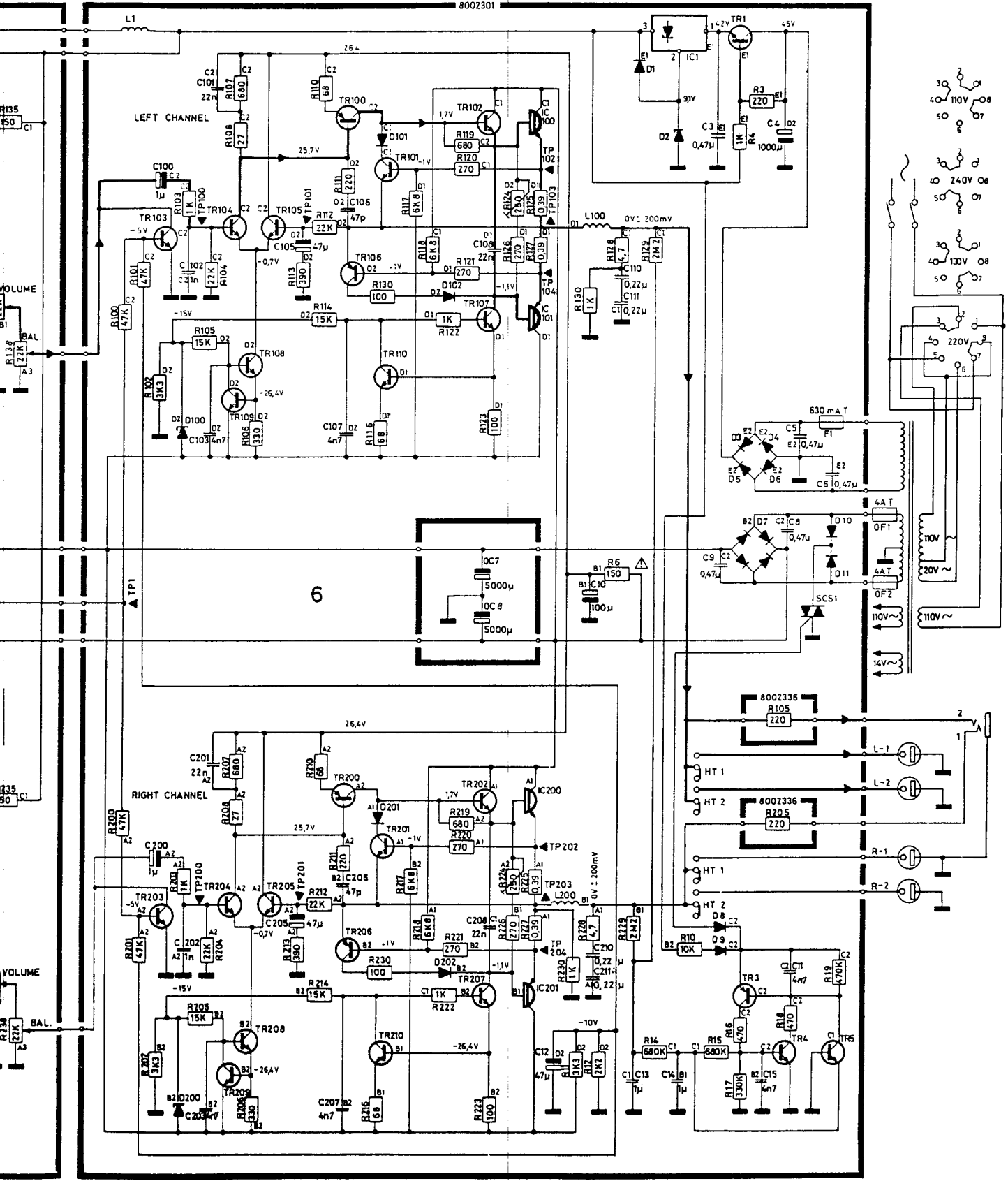
DIAGRAM 2



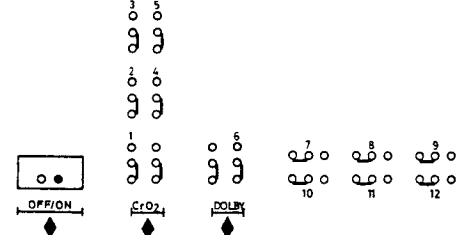
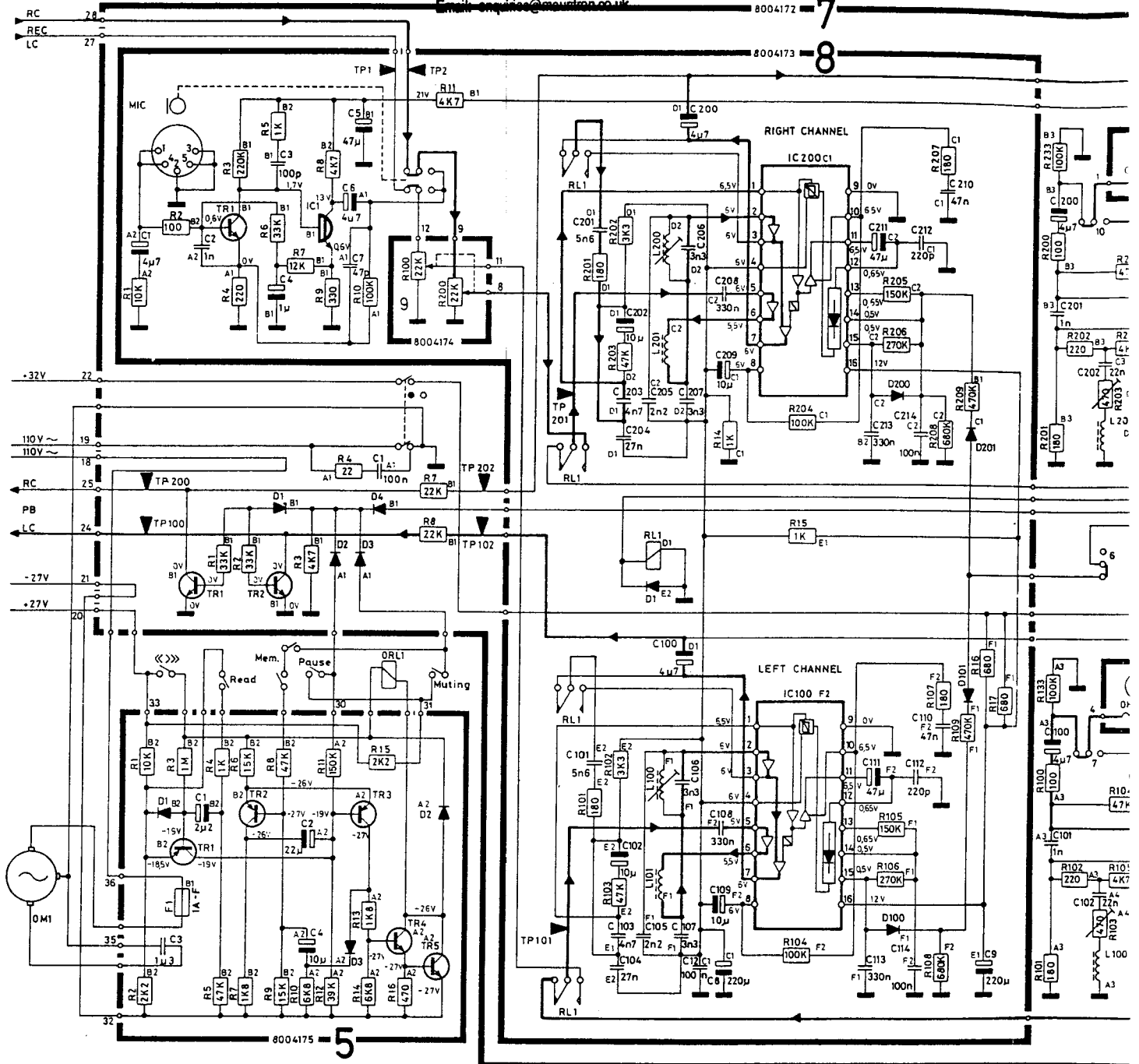
4

6

8002301



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**MÅLEPUNKTER DC**

Spændingerne på 8IC100 og 8IC200 er målt med Dolby-knapper indtrykket. Spændingerne på 7TR102 - 7TR103, 7TR3 - 7TR4 og 7TR202 - 7TR203 er målt i stilling Record.

**TEST POINTS DC**

**AC**

Gengive fra pegelbånd:  
 TP100 - TP200 ..... 700 mV  
 TP101 - TP201 ..... 40 mV  
 TP102 - TP202 ..... 700 mV

**AC**

**CrO<sub>2</sub>-knappen indtrykket og optageknappen i max.**

Optage:  
 TP3 ..... 65 V 98 kHz  
 TP1 - TP2 ..... 40 mV  
 TP101 - TP201 ..... 40 mV  
 TP102 - TP202 ..... 580 mV  
 TP103 - TP203 ..... 3 V  
 1 rød LED må lyse ved mono signal.

**CrO<sub>2</sub>-button depressed and recording button in max.**

**Mikrofon**

Optage:  
 Mikrofon indgang ..... 90 μV

**Microphone**

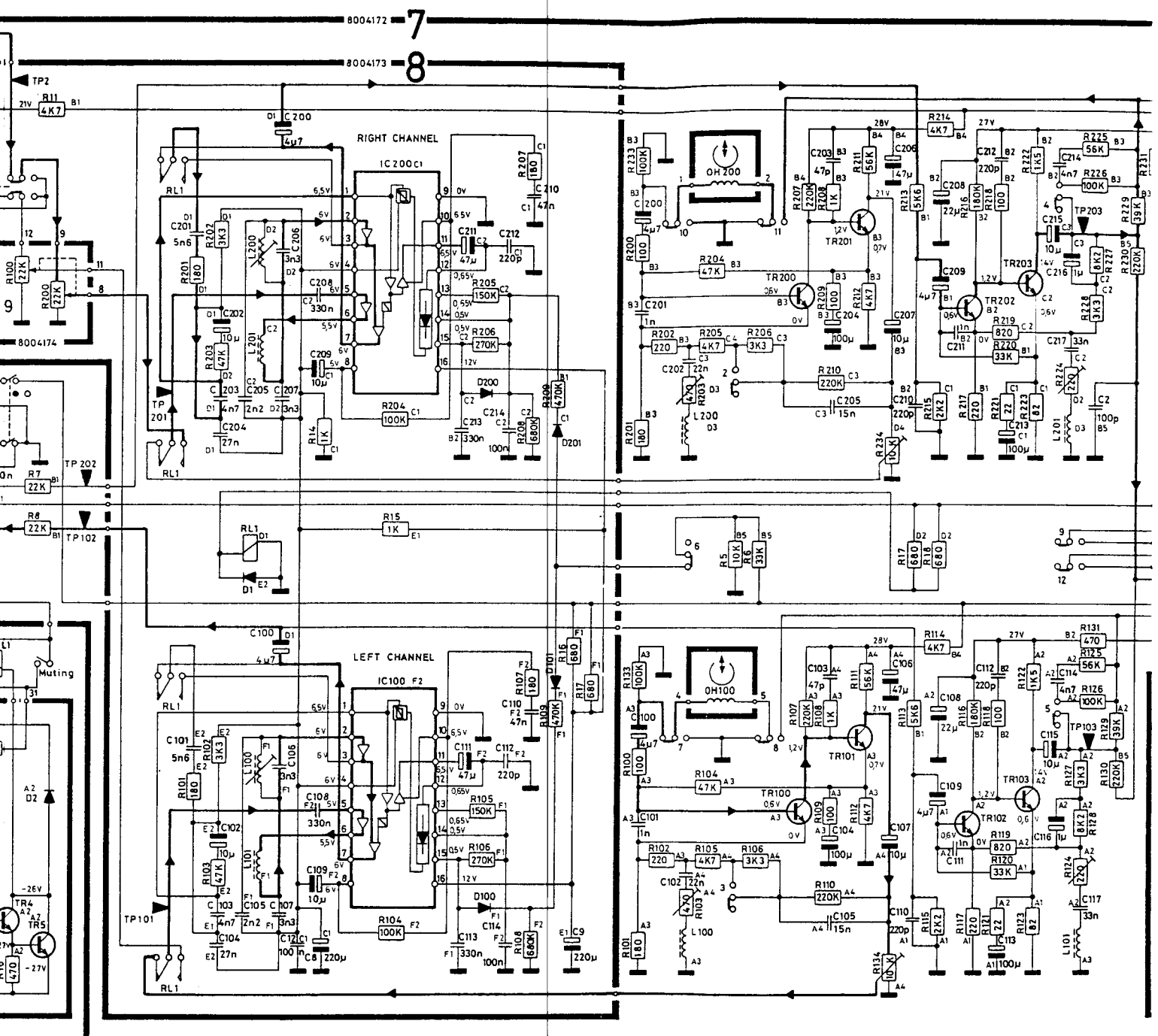
Signalvejen i optage position er vist i højre kanal, og gengive position er vist i venstre kanal.

The signal path in recording pos. is shown in right channel, and replay position is shown in left channel.

Der Signalweg in Aufnahme position is in rechten Kanal gezeigt, und die Wiedergabeposition ist in linkem Kanal gezeigt.

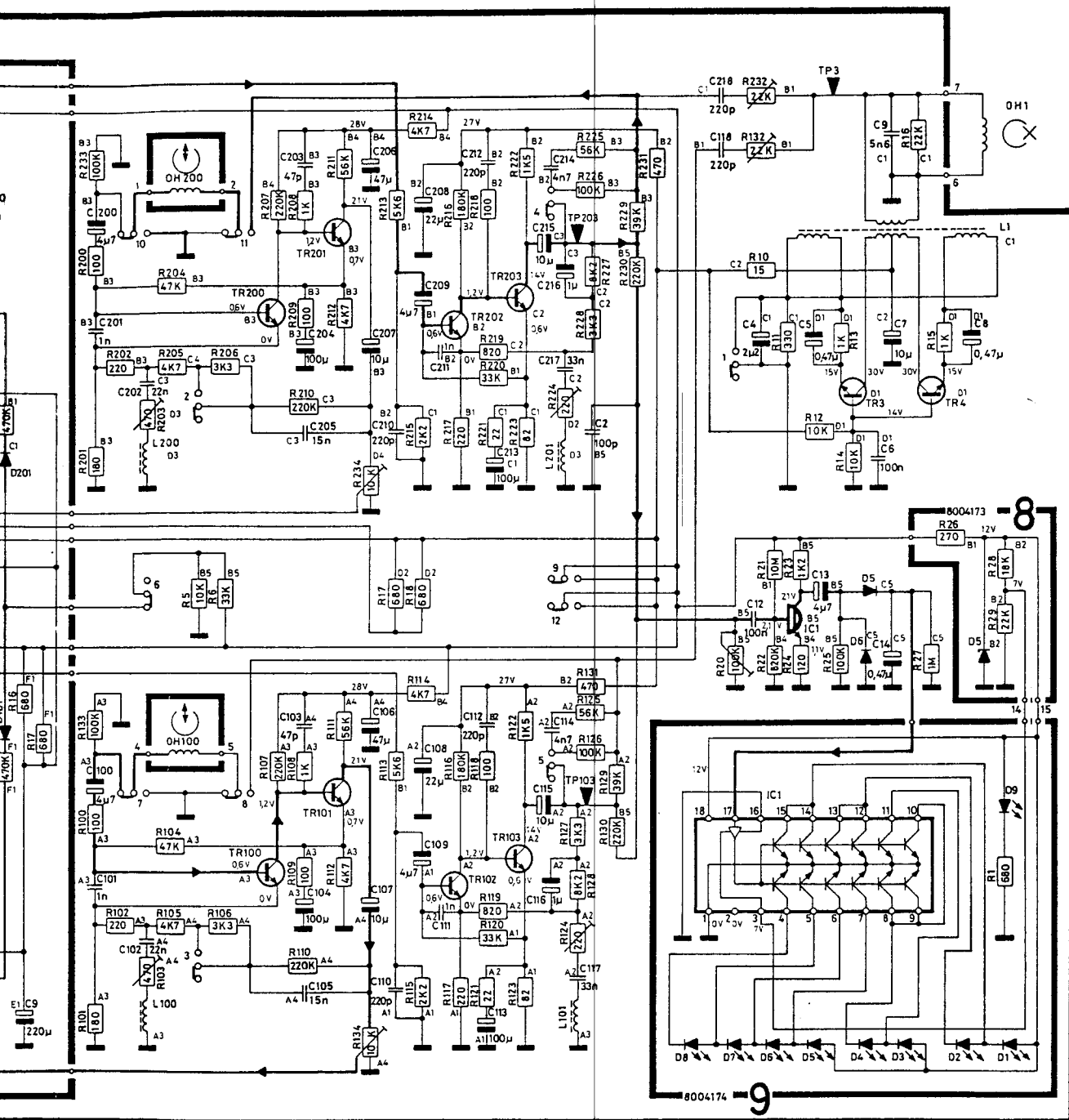
**DIAGRAM 3**





<b>MÅLEPUNKTER DC</b>	Spændingerne på 8IC100 og 8IC200 er målt med Dolby-knapper indtrykket. Spændingerne på 7TR102 - 7TR103, 7TR3 - 7TR4 og 7TR202 - 7TR203 er målt i stilling Record.
<b>AC</b>	Gengive fra pegelbånd: TP100 - TP200 ..... 700 mV TP101 - TP201 ..... 40 mV TP102 - TP202 ..... 700 mV
<b>CrO<sub>2</sub>-knappen indtrykket og optageknappen i max.</b>	Optage: TP3 ..... 65 V 98 kHz TP1 - TP2 ..... 40 mV TP101 - TP201 ..... 40 mV TP102 - TP202 ..... 580 mV TP103 - TP203 ..... 3 V 1 rød LED må lyse ved mono signal.
<b>Mikrofon</b>	Optage: Mikrofon indgang ..... 90 μV

<b>TEST POINTS DC</b>	The voltages on 8IC100 and 8IC200 have been measured with depressed Dolbybutton. The voltages on 7TR102 - 7TR103, 7TR3 - 7TR4 and 7TR202 - 7TR203 have been measured in position Record.	<b>TEST</b>
<b>AC</b>	Playing back from level tape: TP100 - TP200 ..... 700 mV TP101 - TP201 ..... 40 mV TP102 - TP202 ..... 700 mV	<b>AC</b>
<b>CrO<sub>2</sub>-button depressed and recording button in max.</b>	Recording TP3 ..... 65 V 98 kHz TP1 - TP2 ..... 40 mV TP101 - TP201 ..... 40 mV TP102 - TP202 ..... 580 mV TP103 - TP203 ..... 3 V 1 red LED must shine at mono signal.	<b>CrO<sub>2</sub> drück Knop</b>
<b>Microphone</b>	Recording: Microphone input ..... 90 μV	<b>Mikr</b>



### TEST POINTS DC

The voltages on 8IC100 and 8IC200 have been measured with depressed Dolby button. The voltages on 7TR102 - 7TR103, 7TR3 - 7TR4 and 7TR202 - 7TR203 have been measured in position Record.

### AC

Playing back from level tape:  
 TP100 - TP200 ..... 700 mV  
 TP101 - TP201 ..... 40 mV  
 TP102 - TP202 ..... 700 mV

### CrO<sub>2</sub>-button depressed and recording button in max.

Recording:  
 TP3 ..... 65 V 98 kHz  
 TP1 - TP2 ..... 40 mV  
 TP101 - TP201 ..... 40 mV  
 TP102 - TP202 ..... 580 mV  
 TP103 - TP203 ..... 3 V  
 1 red LED must shine at mono signal.

### Microphone

Recording:  
 Microphone input ..... 90 μV

### TESTPUNKTE DC

Die Spannungen auf 8IC100 und 8IC200 sind mit dem Dolby-Knopf eingedrückt gemessen. Die Spannungen auf 7TR102 - 7TR103, 7TR3 - 7TR4 und 7TR202 - 7TR203 sind in Position Record gemessen.

### AC

Von Pegelband wiedergeben:  
 TP100 - TP200 ..... 700 mV  
 TP101 - TP201 ..... 40 mV  
 TP102 - TP202 ..... 700 mV

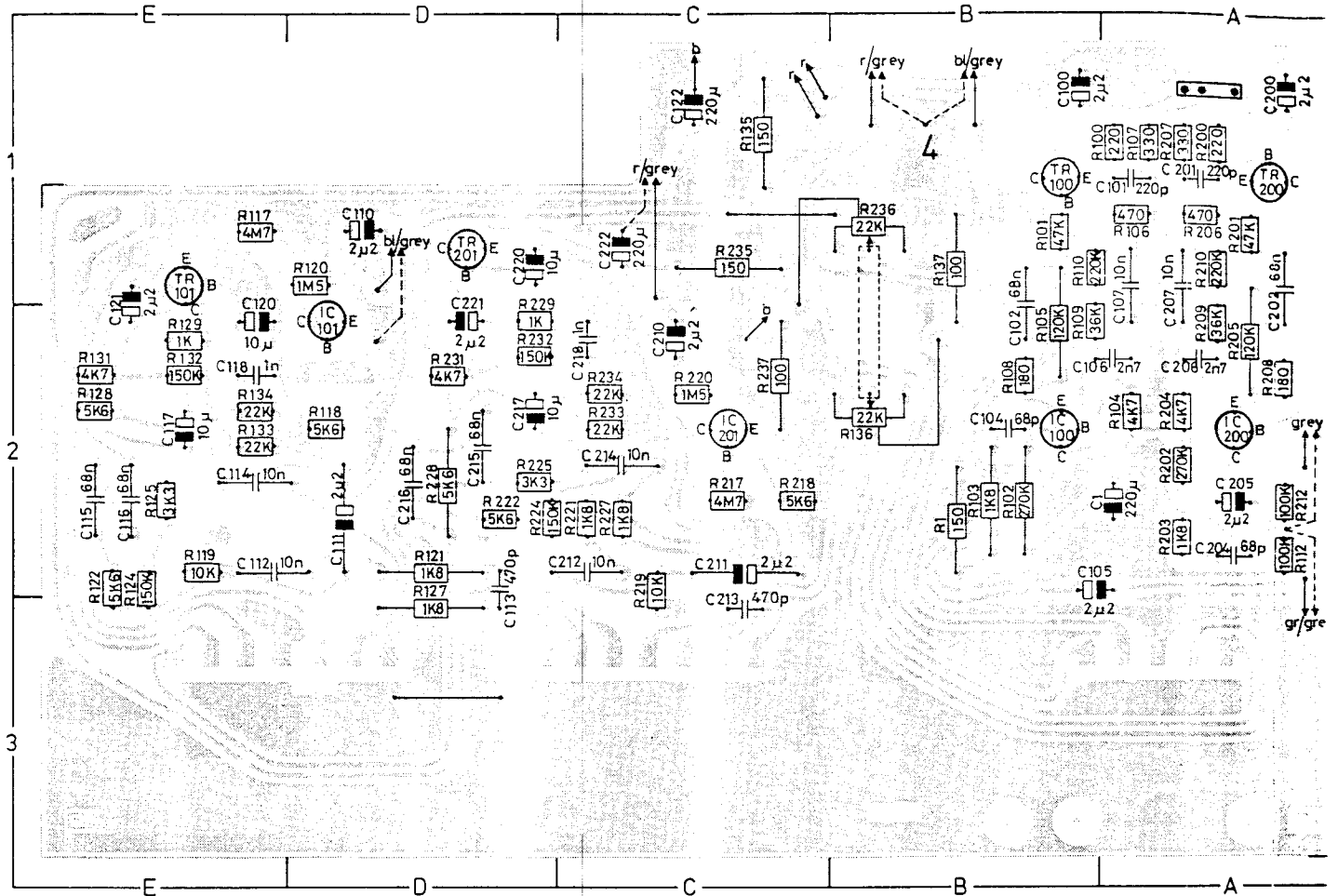
### CrO<sub>2</sub> Knopf eingedrückt und Aufnahme Knopf in max.

Aufnehmen:  
 TP3 ..... 65 V 98 kHz  
 TP1 - TP2 ..... 40 mV  
 TP101 - TP201 ..... 40 mV  
 TP102 - TP202 ..... 580 mV  
 TP103 - TP203 ..... 3 V  
 Bei Mono-Signal muß ein rotes LED leuchten.

### Mikrofon

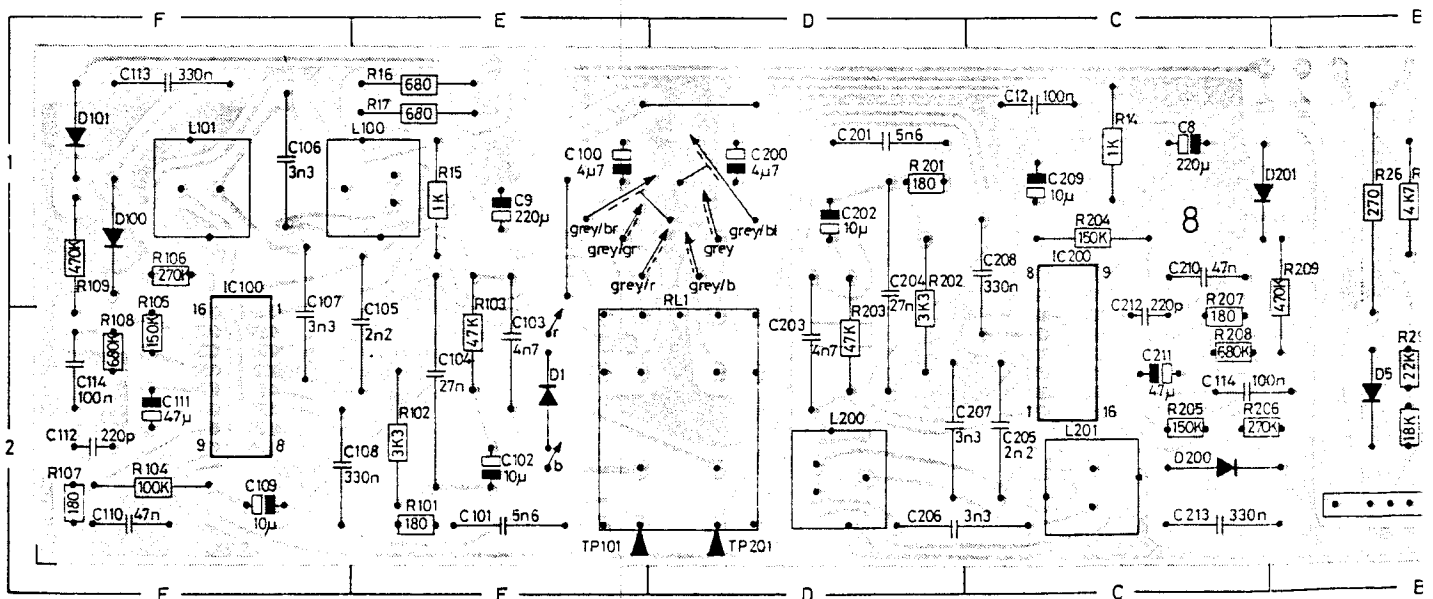
Aufnehmen:  
 Mikrophoneingang ..... 90 μV

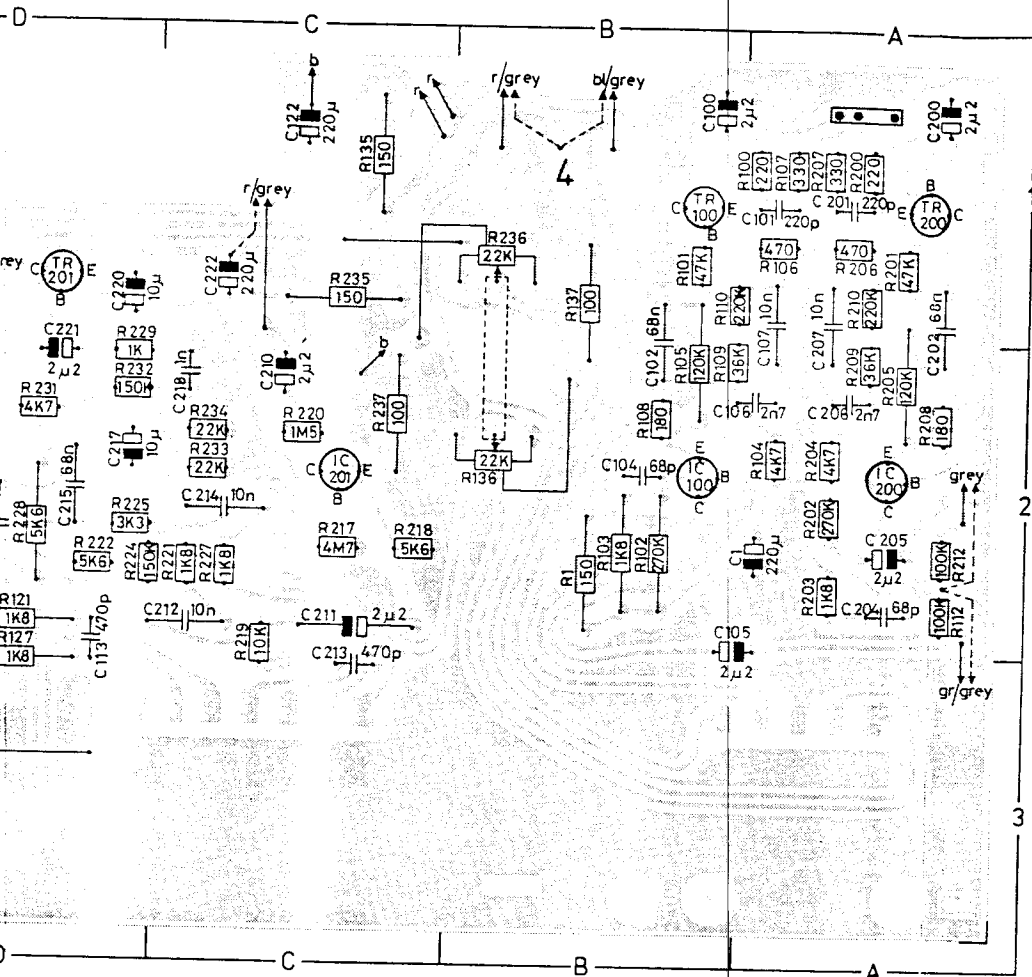
## Tone control and pre-amplifier, 8002318, PC4



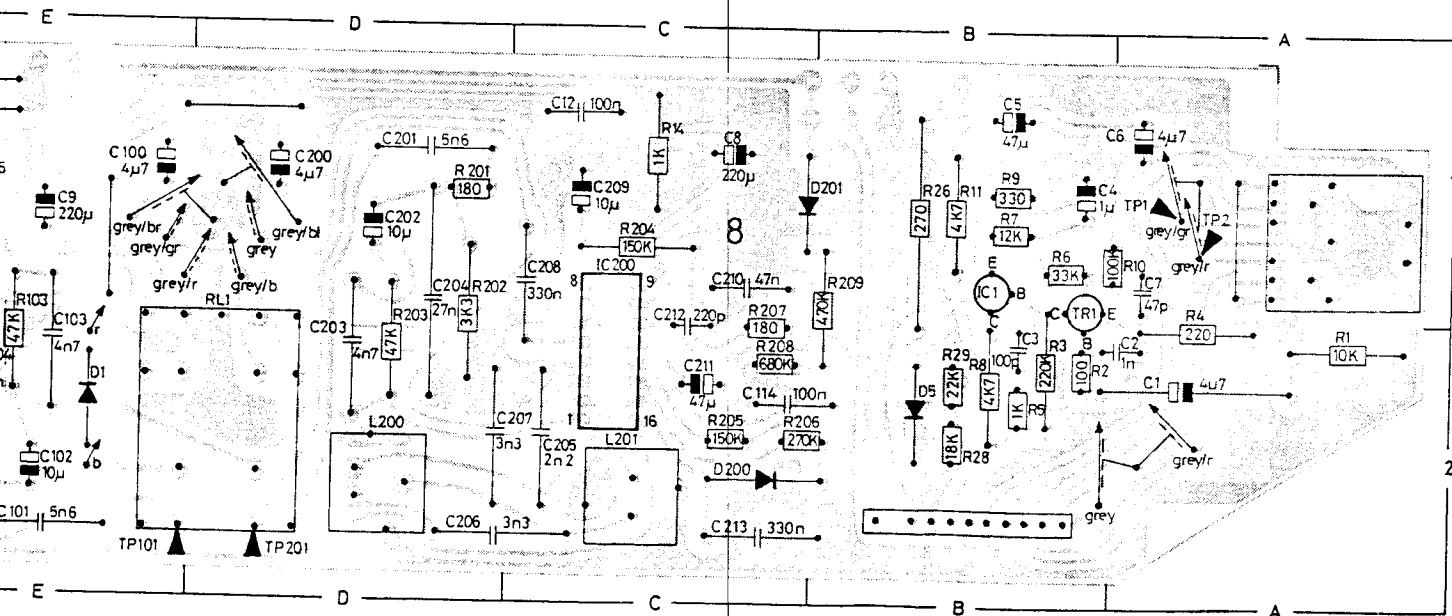
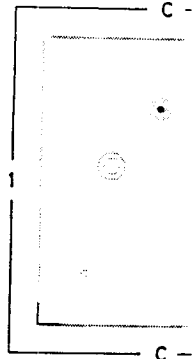
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## Mic. and Dolby, 8004173, PC8



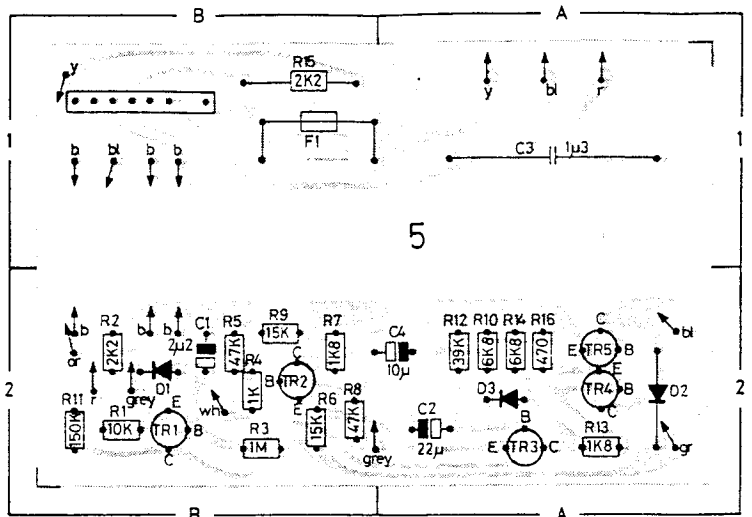


Indicator, 800

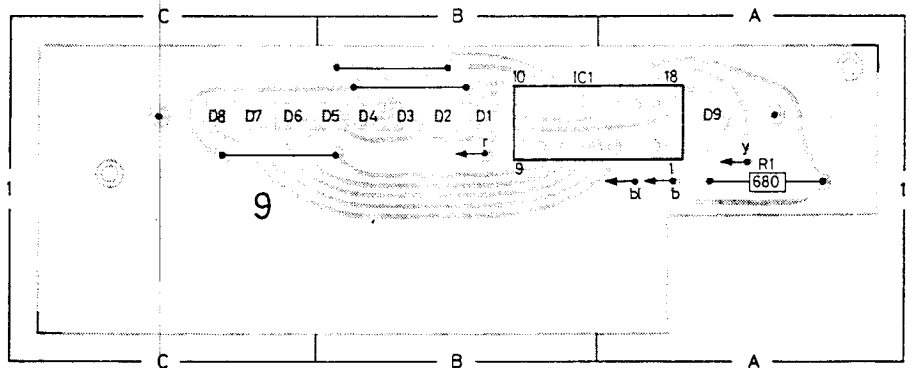


F  
L  
C  
b  
bl  
br  
gr  
or  
r  
v  
wl  
y

Auto-stop, 8004175. PC5



Indicator, 8004174. PC9



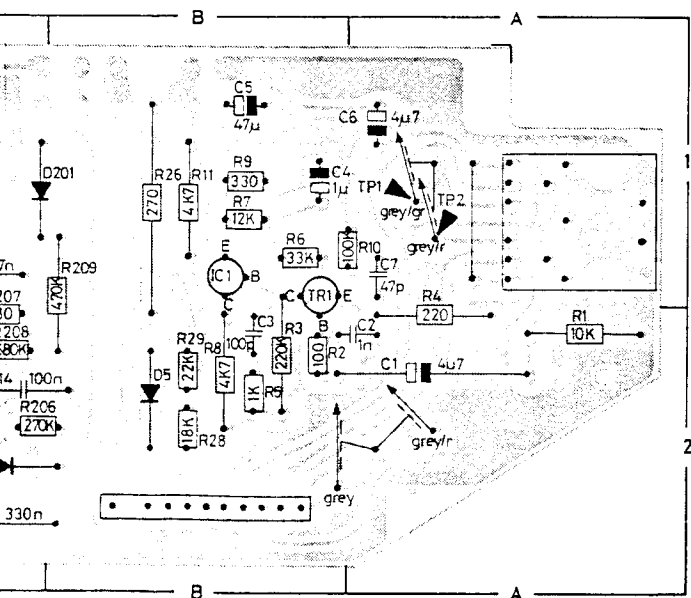
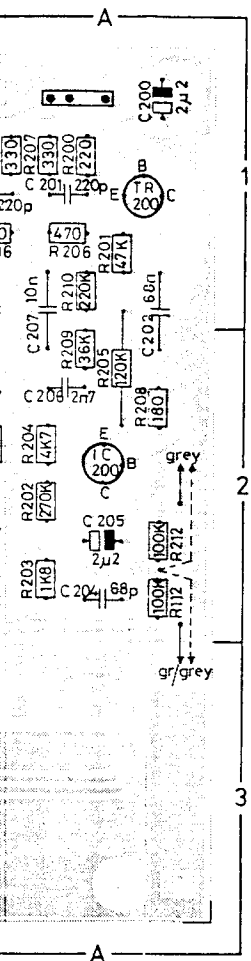
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PC Drawings are seen from copperfoil side

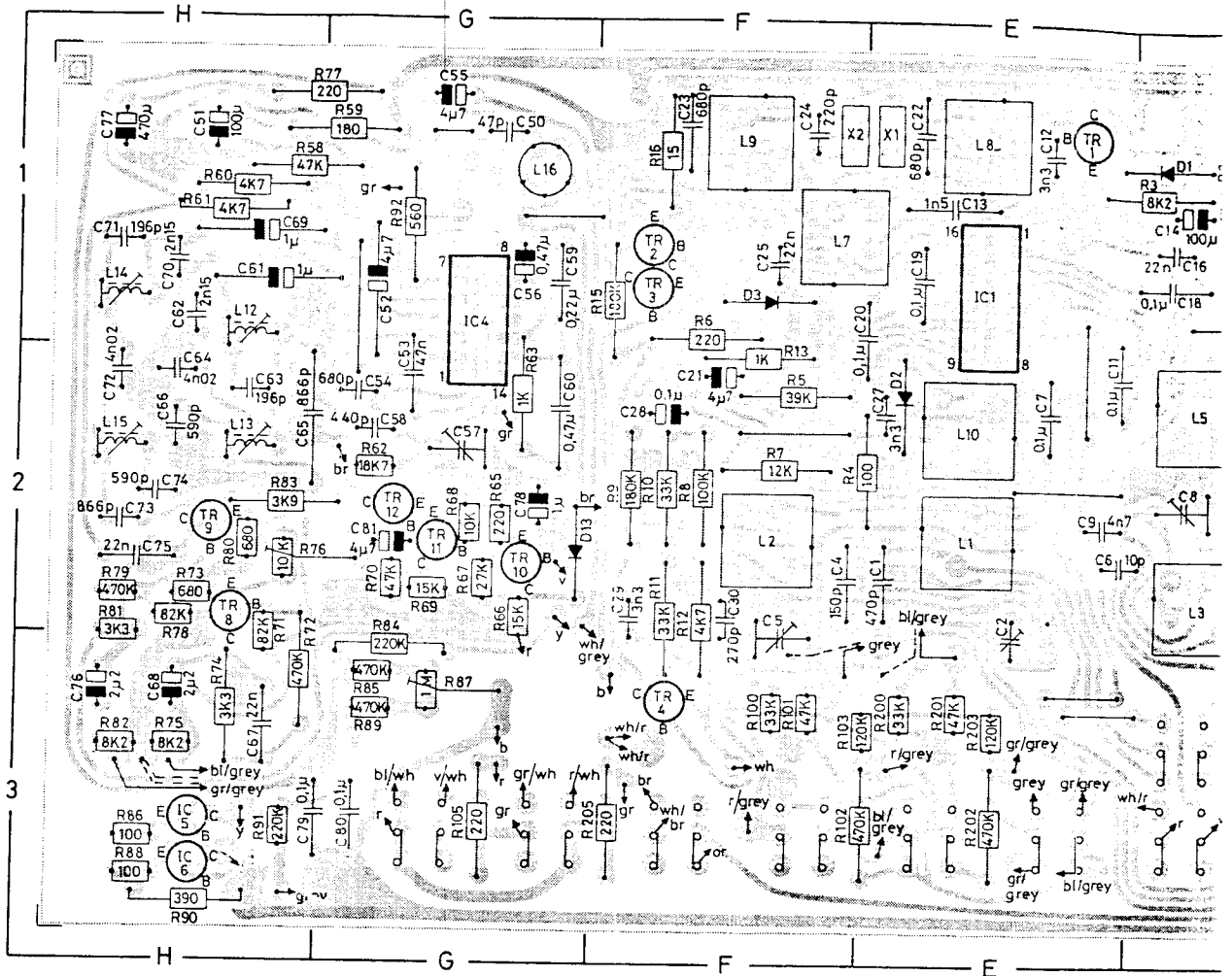
LEDNINGSFARVER  
 COLOUR OF WIRES

KABELFARBEN  
 COULEURS DES FILS

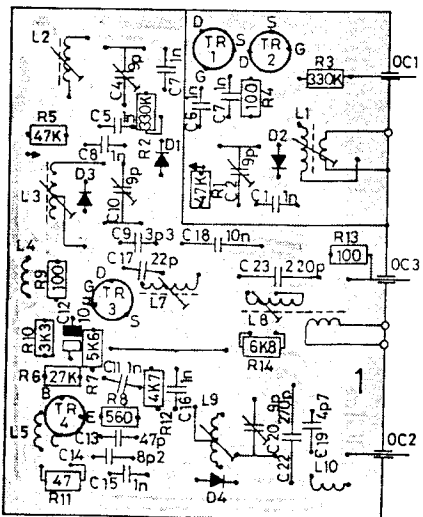
b	black	schwarz	sort	noir
bl	blue	blau	blå	bleu
br	brown	braun	brun	brun
gr	green	grün	grøn	vert
grey	grey	grau	grå	gris
or	orange	orange	orange	orange
r	red	rot	rød	rouge
v	violet	violett	violet	violet
wh	white	weiss	hvid	blanc
y	yellow	gelb	gul	gaune



FM, AM and stereodecoder, 8002336, PC2

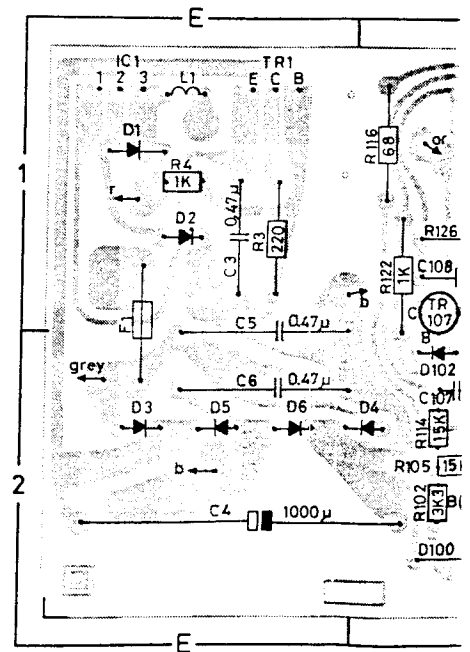


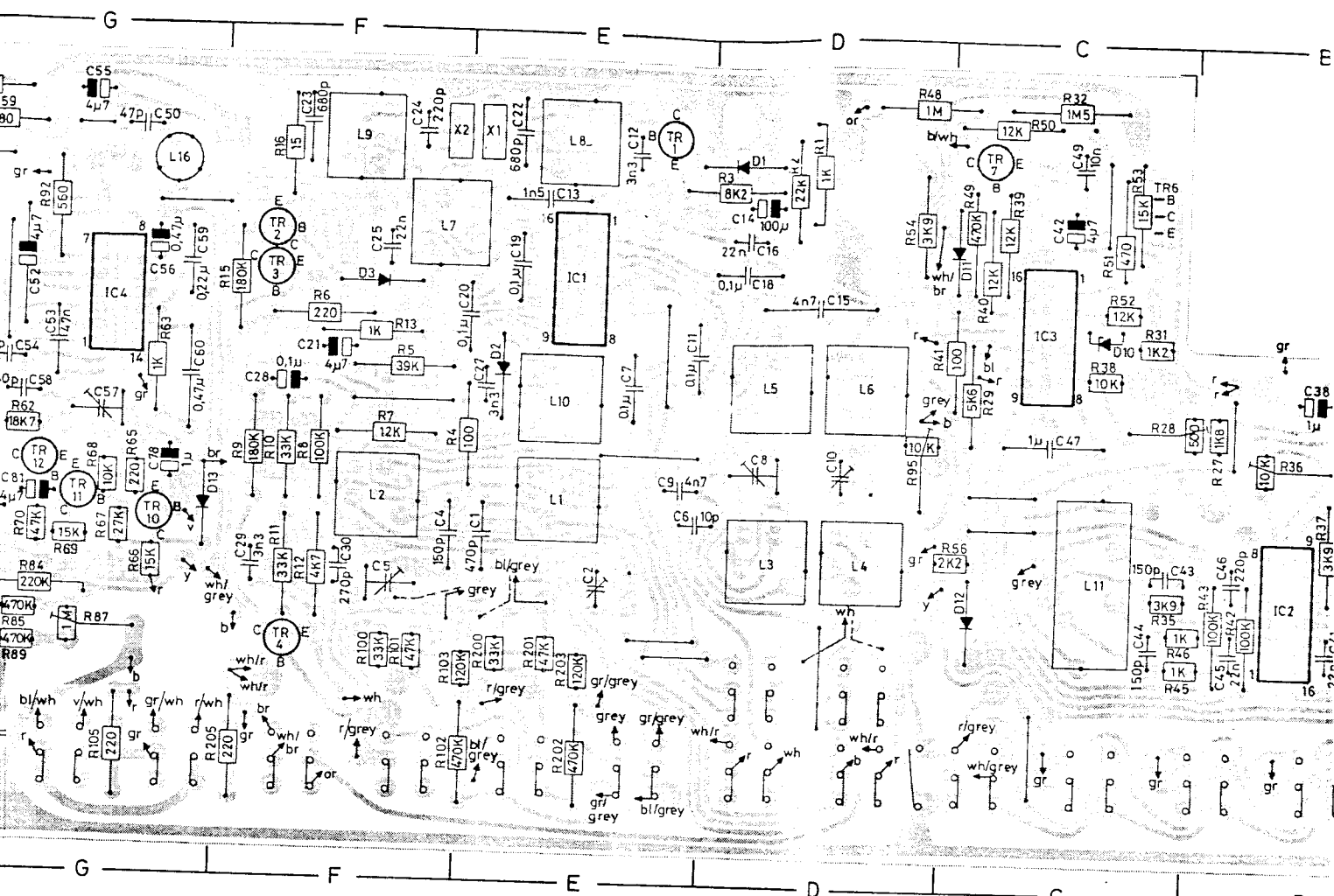
Front-end, tuner, 8050071, PC1



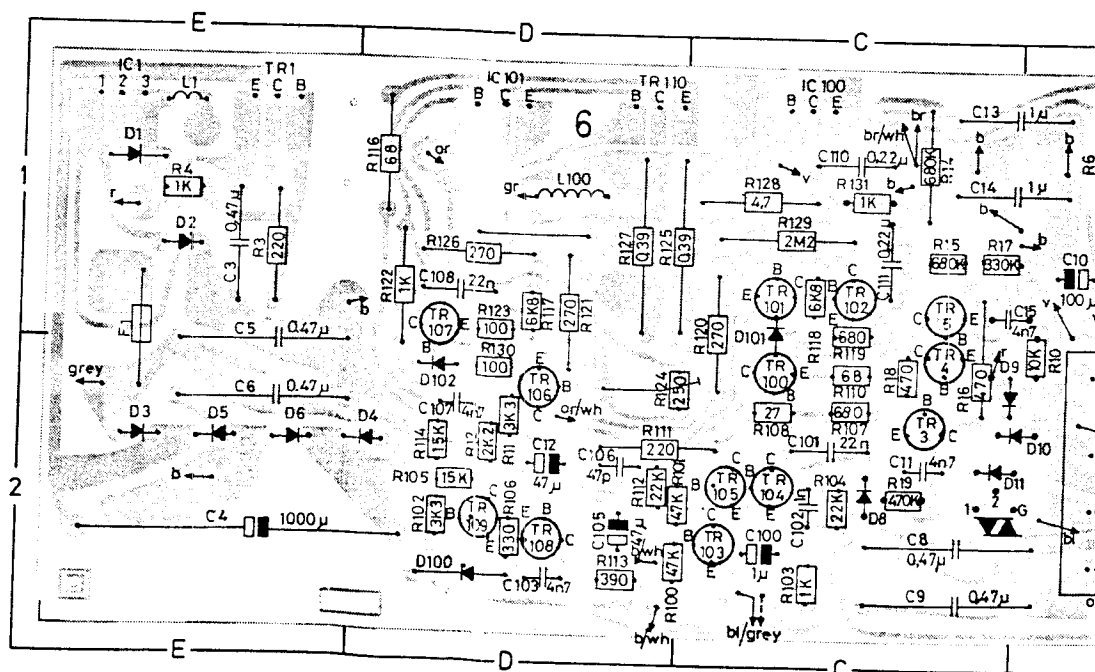
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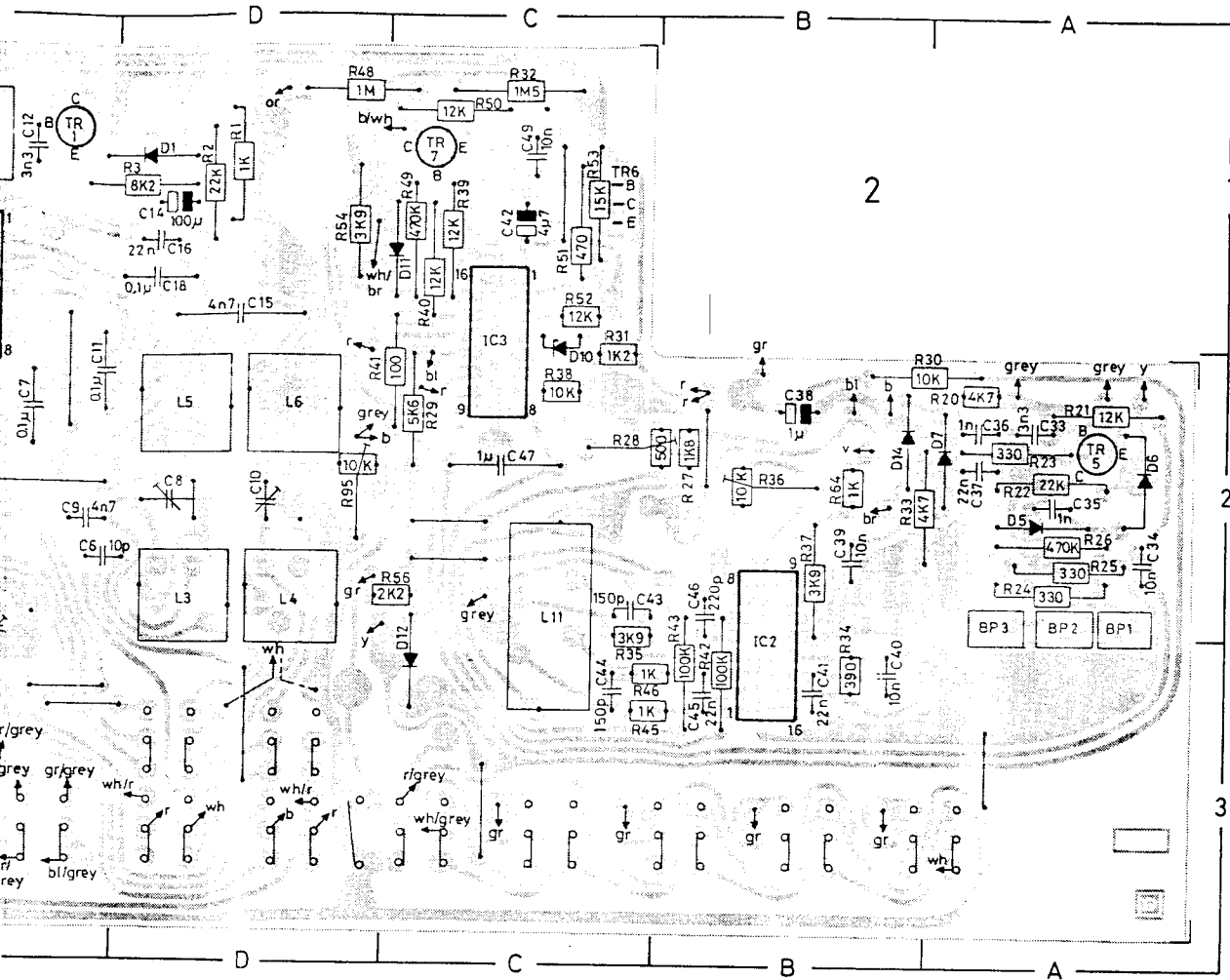
Output amplifier and power supply





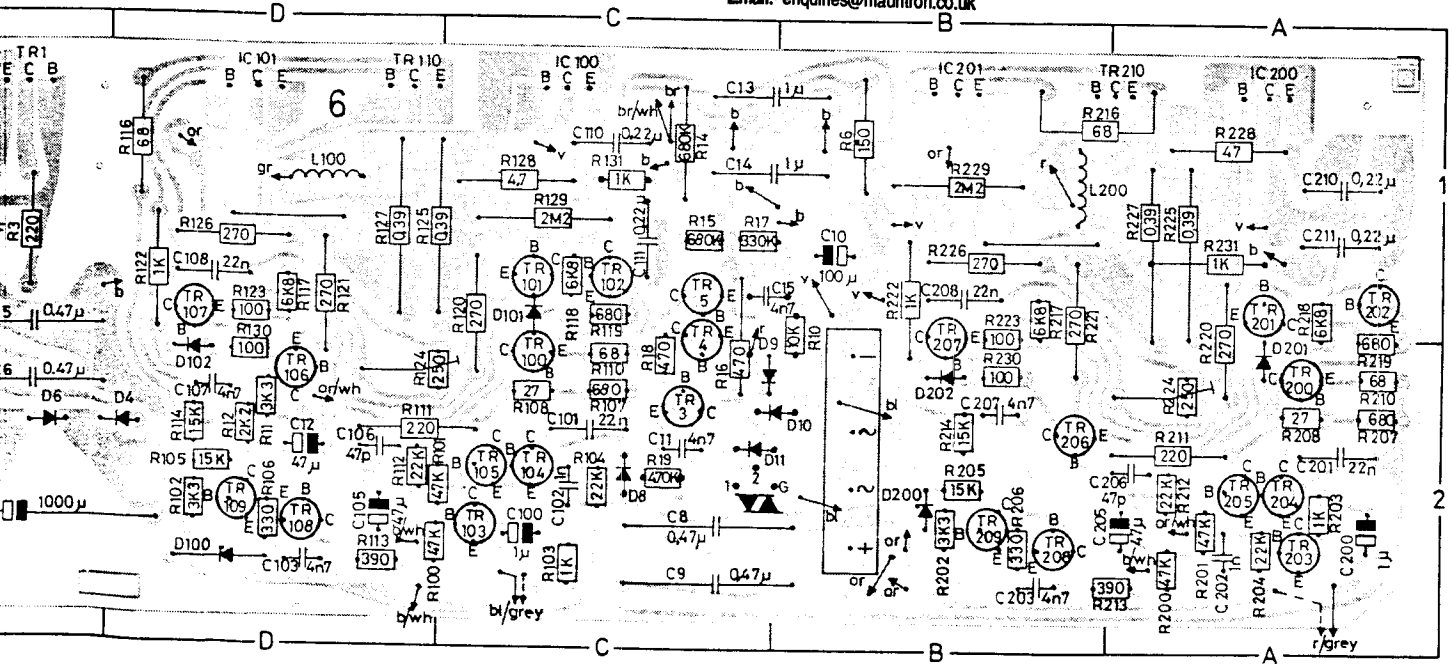
Output amplifier and power supply 8002301, PC6





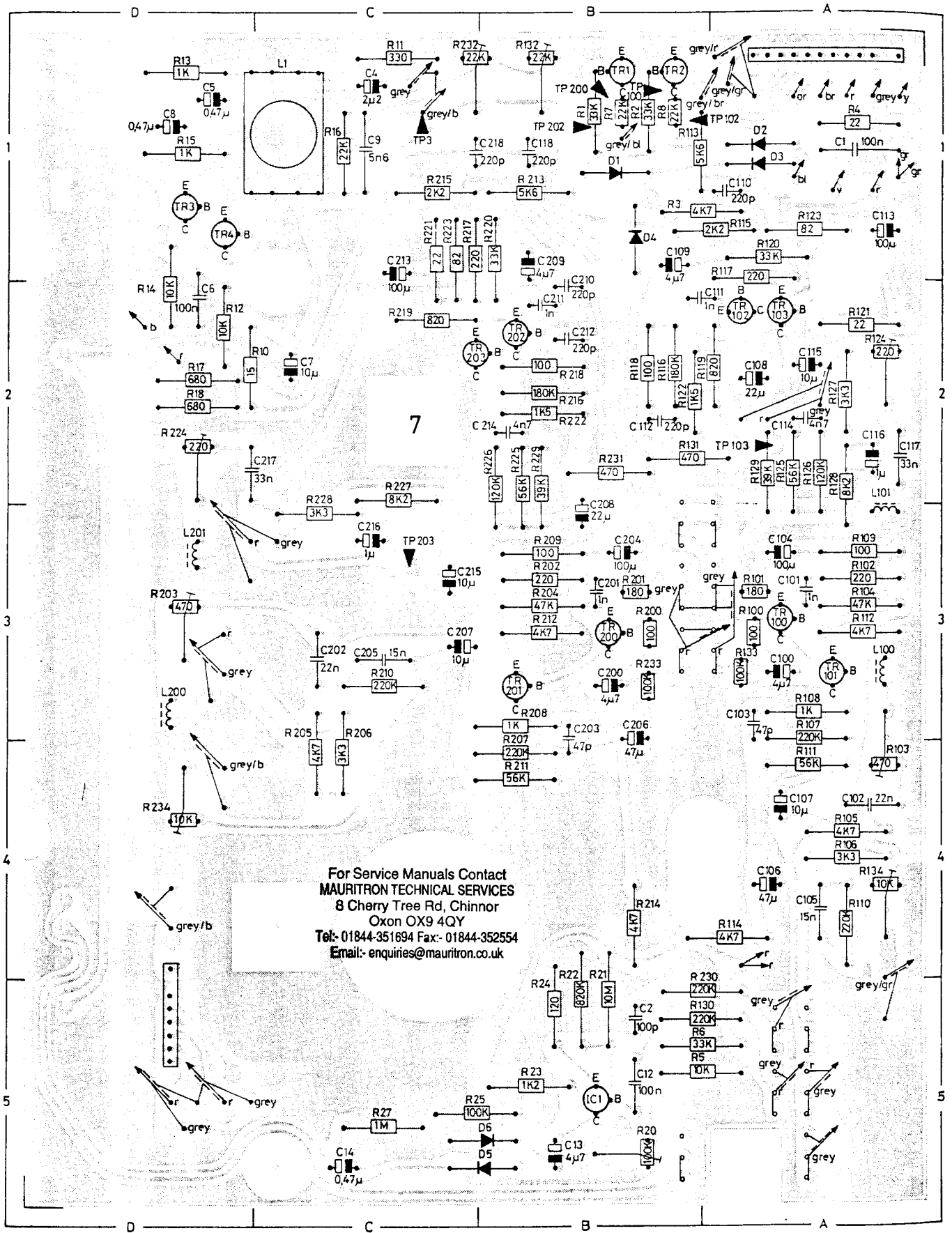
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and power supply 8002301, PC6



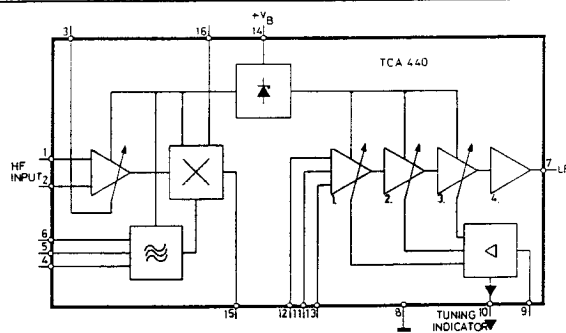


Tape amplifier, 8004172, PC 7

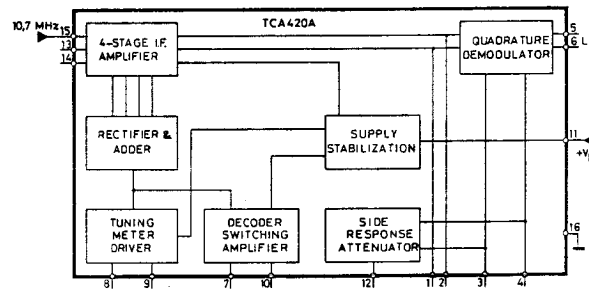


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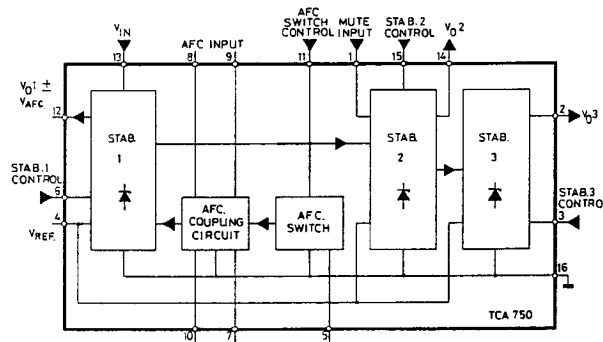
Block diagrams for IC's  
2IC1, TCA440



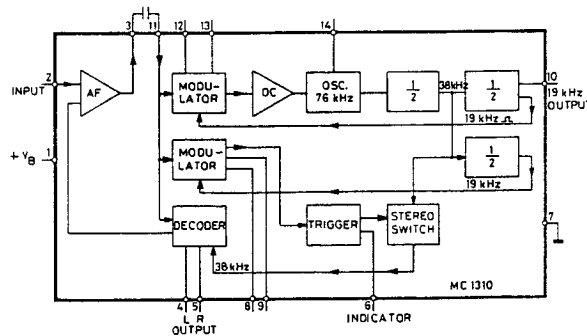
2IC2, TCA 420A



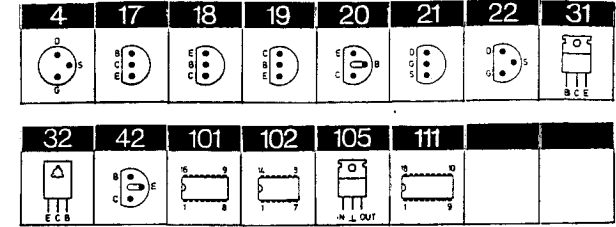
2IC3, TCA 750



2IC4, MC 1310



TRANSISTOR AND IC LIST



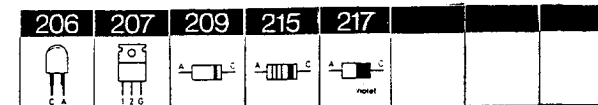
1TR1	8320119	21 TIS 88A	2IC2	8340033	101 TCA 420A
1TR2		21 2N 5245			
		4 U 1981E	2IC3	8340090	101 TCA 750
		22 2N 5245			
			2IC4	8340103	102 MC 1310
1TR3	8320136	21 TIS 88A			102 CA 1310E
		21 3C2			102 MC 1310N
		4 U 1981E	2IC5	8340054	19 MPSA-13
		21 SDF 2060	2IC6		
1TR4	8320112	42 BF 495			
		42 BF 255	4TR100/200	8320344*	20 BC 550B
					20 BC 384B/N
2TR1	8320108	20 BC 248B	4TR101/201	8320097	20 BC 547B
2TR2		20 BC 183B/BK			20 BC 182B/BK
		17 BC 183BL			17 BC 182BL
		20 BC 238B			20 BC 171
		20 BC 172B			20 237B
2TR3	8320324	19 MPSA-55	4IC100/200	8340054	19 MPSA-13
2TR4	8320108	20 BC 548B	4IC101/201		
		20 BC 183B/BK			
		17 BC 183BL	5TR1	8320152	20 BC 557B
		20 BC 238B	5TR2		20 BC 212B/BK
		20 BC 172B	5TR3		17 BC 212BL
					18 BC 307B
2TR5	8320311	42 BF 240			20 BC 251B
2TR6	8320239	32 BD 135/W	5TR4	8320323	19 MPSA-05
2TR7	8320097	20 BC 547B	5TR5	8320292	32 BD 137/W
		20 BC 182B/BK			
		17 BC 182BL	6TR1	8320296	32 BD 226
		20 BC 171	6TR3	8320408	20 BC 556B
		20 BC 237B	6TR4	8320409	20 BC 546B
2TR8	8320285	20 BC 548B	6TR5		
2TR9		20 BC 183C/CK			
		17 BC 183CL	6TR100/200	8320365	19 MPSH-54
2TR10	8320097	20 BC 547B	6TR101/201	8320097	20 BC 547B
2TR11		20 BC 182B/BK			20 BC 182B/BK
2TR12		17 BC 182BL			17 BC 182BL
		20 BC 171			20 BC 171
		20 BC 237B			20 BC 237B
2IC1	8340031	101 TCA 440	6TR102/202	8320323	19 MPSA-05

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6TR103/203	8320097	20 BC 547B	7TR1	8320237	20 BC 546B
		20 BC 182B/BK	7TR2		
		17 BC 182BL			
		20 BC 171	7TR3	8320137	20 BC 182B/BK
		20 BC 237B	7TR4		17 BC 182BL
6TR104/204	8320377	20 BC 547B	7TR100/200	8320344*	20 BC 550B
6TR105/205		20 BC 182C/CK			20 BC 384B/N
		17 BC 182CL			
6TR106/206	8320152	20 BC 557B	7TR101/201	8320095*	20 BC 549B
		20 BC 212B/BK	7TR102/202		20 BC 184B/N
		17 BC 212BL			
		18 BC 307B	7TR103/203	8320097	20 BC 547B
		20 BC 251B			20 BC 182B/BK
					17 BC 182BL
6TR107/207	8320323	19 MPSA-05			20 BC 171
					20 BC 237B
6TR108/208	8320097	20 BC 547B	71C1	8340054	19 MPSA-13
6TR109/209		20 BC 182B/BK			
		17 BC 182BL	8TR1	8320344*	20 BC 550B
		20 BC 171			20 BC 384B/N
		20 BC 237B			
6TR110/210	8320383	32 BO 135	81C1	8340054	19 MPSA-13
		32 BD 135S			
61C1	8340126	105 $\mu$ A78M24CU	81C100/200	8340046	101 NE 545N
61C100/200	8340117	31 BDX 33A	91C1	8340097	111 UAA 180
61C101/201	8340118	31 BDX 34A			

- \* Speciel udvalgt eller bearbejdet eksemplar
- \* Specially selected or adapted sample
- \* Speziell ausgewähltes und bearbeitets Exemplar

## DIODE LIST



0D1	8300256	206 CQX 11	6D8-9	8300058	217 SFD 184
					215 1N 4148
0D2-4	8300255	206 CQX 10			209 1N 4148
1D1	8300041	209 BB 103green	6D10-11	8300294	209 MR 501
					209 1N 5401
1D2	8300050	209 BB 103blue	6D100/200	8300029	209 ZPD 12V 5%
1D3	8300041	209 BB 103green			209 BZX 79
					C12V0
1D4	8300295	209 BB 103blue			209 BZX 83
					C12V0
2D1	8300058	217 SFD 184	6D101/201	8300058	217 SFD 184
		215 1N 4148	6D102/202		215 1N 4148
		209 1N 4148			209 1N 4148
2D2	8300024	209 AA 119	6SC51	8300230	207 2N 6342A/W
					207 T 2800B
2D3-9	8300058	217 SFD 184	7D1	8300028	209 ZPD 9.1V 5%
		215 1N 4148			209 BZX 79
		209 1N 4148			C9V1
2D10	8300283	209 BZV 38			209 BZX 83
					C9V1
2D11-13	8300058	217 SFD 184	7D2-6	8300058	217 SFD 184
5D1		215 1N 4148			215 1N 4148
		209 1N 4148			209 1N 4148
5D2	8300023	209 1N 4002/RL	8D1	8300023	209 1N 4002/RL
		209 1N 4003			209 1N 4003
5D3	8300058	217 SFD 184	8D5	8300034	209 ZY 12 5%1W
		215 1N 4148			209 LMZ 12
		209 1N 4148	8D100/200	8300042	209 OA 91
6D1	8300023	209 1N 4002/RL	8D101/201	8300058	217 SFD 184
		209 1N 4003			215 1N 4148
6D2	8300028	209 ZPD 9.1V 5%			209 1N 4148
		209 BZX 79			
		C9V1			
		209 BZX 83	9D1-6	8300256	206 CQX 11
		C9V1			
6D3-6	8300023	209 1N 4002/RL	9D7-9	8300255	206 CQX 10
		209 1N 4003			
8D7	8310020	B80C3200/ 2200			

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Tone control and pre-amplifier,  
8002318, PC4

R1	5010611	150 ohms ± 5% 1/8 W	R121	5010066	1.8 kohms ± 5% 1/8 W
R100	5010092	220 ohms ± 1/8 W	R122	5010041	5.6 kohms ± 5% 1/8 W
R101	5010045	47 kohms ± 5% 1/8 W	R123	5310074	2 × 22 kohms TREBLE
R102	5010083	270 kohms ± 5% 1/8 W	R124	5010063	150 kohms ± 5% 1/8 W
R103	5010066	1.8 kohms ± 5% 1/8 W	R125	5010076	3.3 kohms ± 5% 1/8 W
R104	5010048	4.7 kohms ± 5% 1/8 W	R126	5310074	2 × 22 kohms BASS
R105	5010047	120 kohms ± 5% 1/8 W	R127	5010066	1.8 kohms ± 5% 1/8 W
R106	5010058	470 ohms ± 5% 1/8 W	R128	5010041	5.6 kohms ± 5% 1/8 W
R107	5010044	330 ohms ± 5% 1/8 W	R129	5010040	1 kohms ± 5% 1/8 W
R108	5010362	180 ohms ± 5% 1/8 W	R131	5010048	4.7 kohms ± 5% 1/8 W
R109	5020019	36 kohms ± 2% 1/8 W	R132	5010063	150 kohms ± 5% 1/8 W
R110	5010120	220 kohms ± 5% 1/8 W	R133	5010079	22 kohms ± 5% 1/8 W
R112	5010049	100 kohms ± 5% 1/8 W	R134	5010079	22 kohms ± 5% 1/8 W
R117	5011078	4.7 Mohms ± 1/4 W	R135	5010611	150 ohms ± 5% 1/8 W
R118	5010041	5.6 kohms ± 5% 1/8 W	R136	5310040	2 × 22 kohms VOL.
R119	5010059	10 kohms ± 5% 1/4 W	R137	5010065	100 ohms ± 5% 1/8 W
R120	5011071	1.5 Mohms ± 5% 1/4 W	R138	5310073	2 × 22 kohms BAL.

C1	4200299	220 µF 40 V	C112	4130109	10 nF ± 10% 250 V
C100	4200296	2.2 µF 63 V	C113	4010024	470 pF ± 10% 100 V
C101	4010021	220 pF ± 10% 100 V	C114	4130109	10 nF ± 10% 250 V
C102	4130100	68 nF ± 10% 250 V	C115	4130100	68 nF ± 10% 250 V
C104	4000078	68 pF ± 2% 63 V	C116	4130100	68 nF ± 10% 250 V
C105	4200296	2.2 µF 63 V	C117	4201065	10 µF 63 V
C106	4010065	2.7 nF ± 10% 63 V	C118	4010027	1 nF ± 10% 100 V
C107	4130109	10 nF ± 10% 250 V	C120	4201065	10 µF 63 V
C110	4200296	2.2 µF 63 V	C121	4200296	2.2 µF 63 V
C111	4201035	2.2 µF 63 V	C122	4200299	220 µF 40 V

7220131 Socket 3 pol.

## Auto. stop, 8004175, PC5

R1	5001042	10 kohms ± 10% 1/2 W	R9	5010053	15 kohms ± 5% 1/8 W
R2	5001034	2.2 kohms ± 10% 1/2 W	R10	5010052	6.8 kohms ± 5% 1/8 W
R3	5010054	1 Mohms ± 5% 1/8 W	R11	5010063	150 kohms ± 5% 1/8 W
R4	5001029	1 kohms ± 10% 1/2 W	R12	5010060	39 kohms ± 5% 1/8 W
R5	5010045	47 kohms ± 10% 1/8 W	R13	5001033	1.8 kohms ± 10% 1/2 W
R6	5001044	15 kohms ± 10% 1/2 W	R14	5010052	6.8 kohms ± 5% 1/8 W
R7	5010066	1.8 kohms ± 5% 1/8 W	R15	5001034	2.2 kohms ± 10% 1/2 W
R8	5010045	47 kohms ± 5% 1/8 W	R16	5001024	470 ohms ± 10% 1/2 W

C1	4201069	2.2 µF 35 V	C3	4130099	1.3 µF ± 10% 170 V
C2	4200100	22 µF 40 V	C4	4201065	10 µF 63 V

Output amplifier and power  
supply, 8002301, PC6

F1	6604023	1 A-F IEC 127 QUICK	7220116	Plug 7 pol
	7500002	Fuse holder		

R3	5001019	220 ohms ± 10% 1/2 W	R110	5010039	68 ohms ± 5% 1/8 W
R4	5002024	1 kohms ± 10% 1 W	R111	5010092	220 ohms ± 5% 1/8 W
R6	5010611	150 ohms ± 5% 1/8 W	R112	5010079	22 kohms ± 5% 1/8 W
R10	5010059	10 kohms ± 5% 1/8 W	R113	5010070	390 ohms ± 5% 1/8 W
R11	5010076	3.3 kohms ± 5% 1/8 W	R114	5010053	15 kohms ± 5% 1/8 W
R12	5010064	2.2 kohms ± 5% 1/8 W	R116	5010039	68 ohms ± 5% 1/8 W
R14	5010074	680 kohms ± 5% 1/8 W	R117	5011042	6.8 kohms 5% 1/4 W
R15	5010074	680 kohms ± 5% 1/8 W	R118	5011042	6.8 kohms 5% 1/4 W
R16	5010058	470 ohms ± 5% 1/8 W	R119	5010144	680 ohms ± 5% 1/8 W
R17	5010117	330 kohms ± 5% 1/8 W	R120	5010000	270 ohms ± 5% 1/8 W
R18	5010058	470 ohms ± 5% 1/8 W	R121	5010000	270 ohms ± 5% 1/8 W
R19	5010077	470 kohms ± 5% 1/8 W	R122	5010040	1 kohms ± 5% 1/8 W
R100	5010045	47 kohms ± 5% 1/8 W	R123	5010065	100 ohms ± 5% 1/8 W
R101	5010045	47 kohms ± 5% 1/8 W	R124	5370174	250 ohms ± 20% 0.1 W
R102	5010076	3.3 kohms ± 5% 1/8 W	R125	5102007	0.39 ohms ± 10% 1 W
R103	5010040	1 kohms ± 5% 1/8 W	R126	5010000	270 ohms ± 5% 1/8 W
R104	5010079	22 kohms ± 5% 1/8 W	R127	5102007	0.39 ohms ± 10% 1 W
R105	5010053	22 kohms ± 5% 1/8 W	R128	5000085	4.7 ohms ± 10% 1/2 W
R106	5010044	330 ohms ± 5% 1/8 W	R129	5011074	2.2 Mohms ± 10% 1/4 W
R107	5010144	680 ohms ± 5% 1/8 W	R130	5010065	100 ohms ± 5% 1/8 W
R108	5010403	27 ohms ± 5% 1/8 W			

C3	4130114	0.47 µF ± 10% 100 V	C15	4011022	4.7 nF ± 20 +100% 40 V
C4	4200373	1000 µF 63 V	C100	4200298	1 µF 63 V
C5	4130029	0.47 µF ± 10% 250 V	C101	4130079	22 nF ± 20 % 250 V
C6	4130029	0.47 µF ± 10% 250 V	C102	4010027	1 nF ± 10% 100 V
C8	4130029	0.47 µF ± 10% 250 V	C103	4011022	4.7 nF ± 20 +100% 40 V
C9	4130029	0.47 µF ± 10% 250 V	C105	4200092	47 µF 16 V
C10	4201060	100 µF 40 V	C106	4000057	47 pF ± 5% 63 V
C11	4011022	4.7 nF ± 20 +100% 40 V	C107	4011022	4.7 nF ± 20 +100% 40 V
C12	4200092	47 µF 16 V	C108	4130079	22 nF ± 20% 250 V
C13	4130136	1 µF ± 20% 100 V	C110	4130104	0.22 µF ± 20% 100 V
C14	4130136	1 µF ± 20% 100 V	C111	4130104	0.22 µF ± 20% 100 V

L1	8022080	2.5 mH	L100	6850114	0.5 µH
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## Tape amplifier, 8004172, PC7

R1	5010075	33 kohms ± 5% 1/8 W	R106	5010076	3.3 kohms ± 5% 1/8 W
R2	5010075	33 kohms ± 5% 1/8 W	R107	5010120	220 kohms ± 5% 1/8 W
R3	5010048	4.7 kohms ± 5% 1/8 W	R108	5010040	1 kohms ± 5% 1/8 W
R4	5001004	22 ohms ± 10% 1/2 W	R109	5010065	100 ohms ± 5% 1/8 W
R5	5010059	10 kohms ± 5% 1/8 W	R110	5010120	220 kohms ± 5% 1/8 W
R6	5010075	33 kohms ± 5% 1/8 W	R111	5010061	56 kohms ± 5% 1/8 W
R7	5010079	22 kohms ± 5% 1/8 W	R112	5010048	4.7 kohms ± 5% 1/8 W
R8	5010079	22 kohms ± 5% 1/8 W	R113	5010041	5.6 kohms ± 5% 1/8 W
R10	5020121	15 ohms ± 5% 1/8 W	R114	5001038	4.7 kohms ± 10% 1/2 W
R11	5001021	330 ohms ± 10% 1/2 W	R115	5010064	2.2 kohms ± 5% 1/8 W
R12	5010059	10 kohms ± 5% 1/8 W	R116	5010072	180 kohms ± 5% 1/8 W
R13	5010040	1 kohms ± 5% 1/8 W	R117	5010092	220 ohms ± 5% 1/8 W
R14	5010059	10 kohms ± 5% 1/8 W	R118	5010065	100 ohms ± 5% 1/8 W
R15	5010040	1 kohms ± 5% 1/8 W	R119	5010068	820 ohms ± 5% 1/8 W
R16	5010079	22 kohms ± 5% 1/8 W	R120	5010075	33 kohms ± 5% 1/8 W
R17	5001026	680 ohms ± 10% 1/2 W	R121	5010448	22 ohms ± 5% 1/8 W
R18	5001026	680 ± 10% 1/2 W	R122	5010247	1.5 kohms ± 5% 1/8 W
R20	5370128	100 kohms 0.1 W Lin.	R123	5010056	82 ohms ± 5% 1/8 W
R21	5011083	10 Mohms ± 5% 1/4 W	R124	5370059	250 ohms 0.1 W Lin.
R22	5011068	820 kohms ± 5% 1/4 W	R125	5010061	56 kohms ± 5% 1/8 W
R23	5010153	1.2 kohms ± 5% 1/8 W	R126	5010049	100 kohms ± 5% 1/8 W
R24	5010128	120 ohms ± 5% 1/8 W	R127	5010076	3.3 kohms ± 5% 1/8 W
R25	5010049	100 kohms ± 5% 1/8 W	R128	5010154	8.2 kohms ± 5% 1/8 W
R27	5010054	1 Mohms ± 5% 1/8 W	R129	5010060	39 kohms ± 5% 1/8 W
R100	5010065	100 ohms ± 1/8 W	R130	5010120	220 kohms ± 5% 1/8 W
R101	5010362	180 ohms ± 5% 1/8 W	R131	5001024	470 ohms ± 10% 1/2 W
R102	5010092	220 ohms ± 5% 1/8 W	R132	5370153	25 kohms 0.1 W Lin.
R103	5370150	500 ohms 0.1 W Lin.	R133	5010049	100 kohms ± 5% 1/8 W
R104	5010045	47 kohms ± 5% 1/8 W	R134	5370152	10 kohms 0.1 W Lin.
R105	5010048	4.7 kohms ± 5% 1/8 W			

C1	4130098	100 nF ± 20% 400 V	C104	4200098	100 µF 6 V
C2	4000069	100 pF ± 5% 63 V	C105	4130097	15 nF ± 10% 250 V
C4	4201069	2.2 µF 35 V	C106	4201074	47 µF 40 V
C5	4201058	0.47 µF 35 V	C107	4201065	10 µF 63 V
C6	4130103	100 nF ± 20% 250 V	C108	4200100	22 µF 40 V
C7	4201065	10 µF 63 V	C109	4201061	4.7 µF 63 V
C8	4201058	0.47 µF 35 V	C110	4010021	220 pF ± 10% 100 V
C9	4100049	5.6 nF ± 1% 63 V	C111	4010027	1 nF ± 10% 100 V
C12	4130103	100 nF ± 2% 250 V	C112	4010021	220 pF ± 10% 100 V
C13	4201061	4.7 µF 63 V	C113	4200098	100 µF 6 V
C14	4201058	0.47 µF 35 V	C114	4010063	4.7 nF ± 10% 63 V
C100	4201061	4.7 µF 63 V	C115	4201065	10 µF 63 V
C101	4010025	1 nF ± 10% 100 V	C116	4200325	1 µF 35 V
C102	4130089	22 nF ± 10% 250 V	C117	4130088	33 nF ± 10% 250 V
C103	4000057	47 pF ± 5% 63 V	C118	4010021	220 pF ± 10% 100 V

L1	8020267	100 kHz osc.
L100	8022090	
L101	8022043	
	7400166	Record switch
	7400165	Push button switch
	7220116	Plug 8/7 pin
	7220117	Plug 12/11 pin

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## Mic. and Dolby 8004173 PCS

R1	5010059	10 kohms ± 5% 1/8 W	R17	5001026	680 ohms ± 10% 1/2 W
R2	5010065	100 ohms ± 5% 1/8 W	R26	5100255	270 ohms ± 10% 5 W
R3	5010120	220 kohms ± 5% 1/8 W	R28	5010135	18 kohms ± 5% 1/8 W
R4	5010092	220 ohms ± 5% 1/8 W	R29	5010079	22 kohms ± 5% 1/8 W
R5	5010040	1 kohms ± 5% 1/8 W	R101	5010362	180 ohms ± 5% 1/8 W
R6	5010075	33 kohms ± 5% 1/8 W	R102	5010265	3.3 kohms ± 2% 1/4 W
R7	5010046	12 kohms ± 5% 1/8 W	R103	5010045	47 kohms ± 5% 1/8 W
R8	5010048	4.7 kohms ± 5% 1/8 W	R104	5010049	100 kohms ± 5% 1/8 W
R9	5010044	330 ohms ± 5% 1/8 W	R105	5010063	150 kohms ± 5% 1/8 W
R10	5010049	100 kohms ± 5% 1/8 W	R106	5010083	270 kohms ± 5% 1/8 W
R11	5001038	4.7 kohms ± 10% 1/2 W	R107	5010362	180 ohms ± 5% 1/8 W
R14	5001028	1 kohms ± 5% 1/2 W	R108	5010074	680 kohms ± 5% 1/8 W
R15	5001028	1 kohms ± 5% 1/2 W	R109	5010077	470 kohms ± 5% 1/8 W
R16	5001026	680 ohms ± 10% 1/2 W			

C1	4201040	4.7 µF 63 V	C103	4100031	4.7 nF ± 1% 63 V
C2	4010027	1 nF ± 10% 100 V	C104	4100048	27 nF ± 1% 63 V
C3	4000069	100 pF ± 5% 63 V	C105	4100029	2.2 nF ± 5% 63 V
C4	4200298	1 µF 63 V	C106	4100033	3.3 nF ± 5% 63 V
C5	4201074	47 µF 40 V	C107	4100033	3.3 nF ± 5% 63 V
C6	4201061	4.7 µF 63 V	C108	4130102	330 nF ± 20% 250 V
C7	4000057	47 pF ± 5% 63 V	C109	4201065	10 µF 63 V
C8	4200097	220 µF 16 V	C110	4130087	47 nF ± 10% 250 V
C9	4200097	220 µF 16 V	C111	4200092	47 µF 16 V
C12	4130103	100 nF ± 20% 250 V	C112	4010021	220 pF ± 10% 100 V
C100	4201061	4.7 µF 63 V	C113	4130102	330 nF ± 20% 250 V
C101	4100049	5.6 nF ± 1% 63 V	C114	4130103	100 nF ± 20% 250 V
C102	4201065	10 µF 63 V			

L100	8022067	22 mH	RL1	(7600035) 24 V (ISE 7600041)
L101	8022068	36 mH	7210159	Mic. socket
			7220139	Plug 11/10 pin

## Indicator 8004174 PC9

R1	5001026	680 ohms
R100/	5310079	2 x 22 kohms
200		

6275369 Wire bundle with plug  
3322045 Glass for LED

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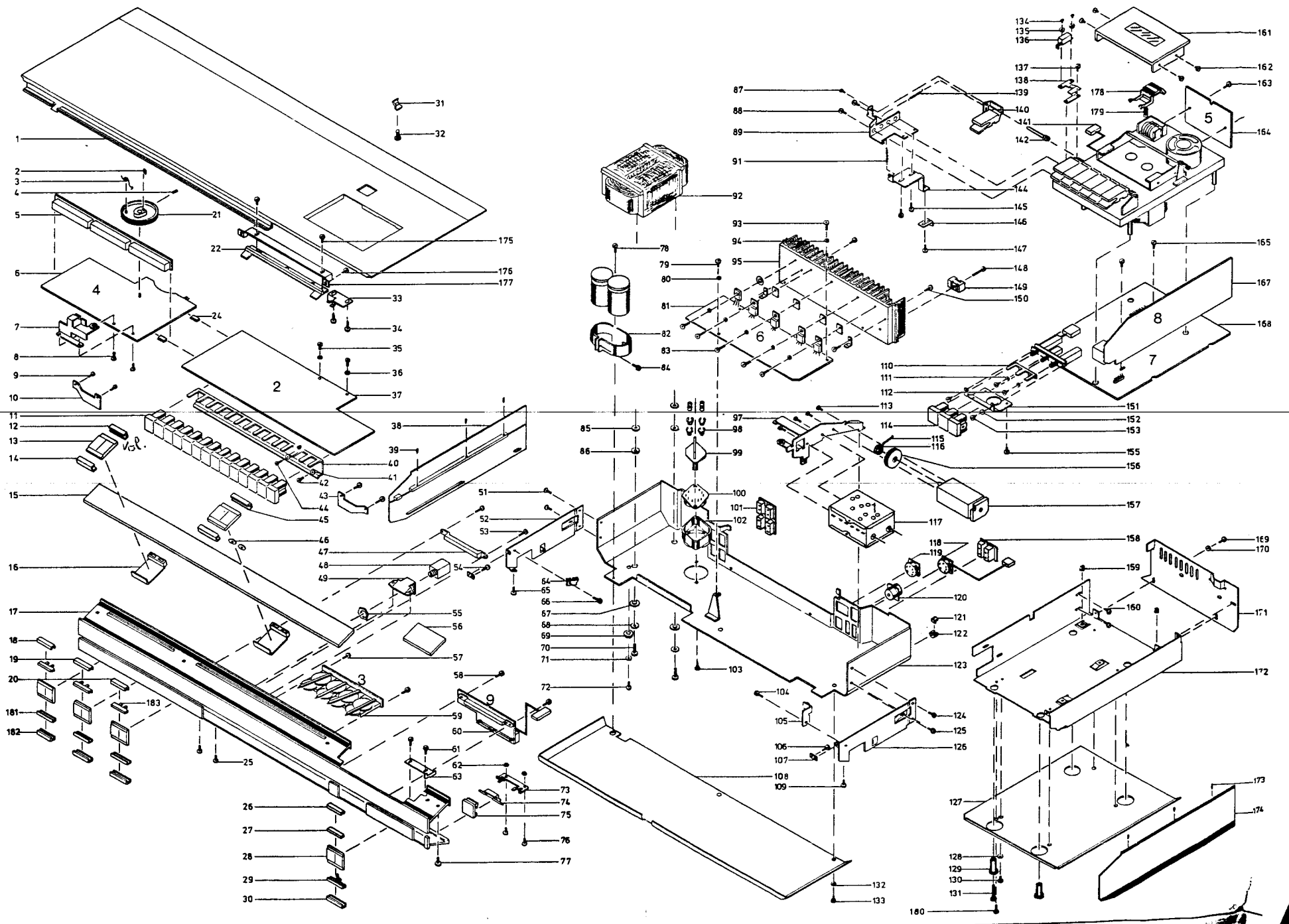
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MECHANICAL PARTS LIST

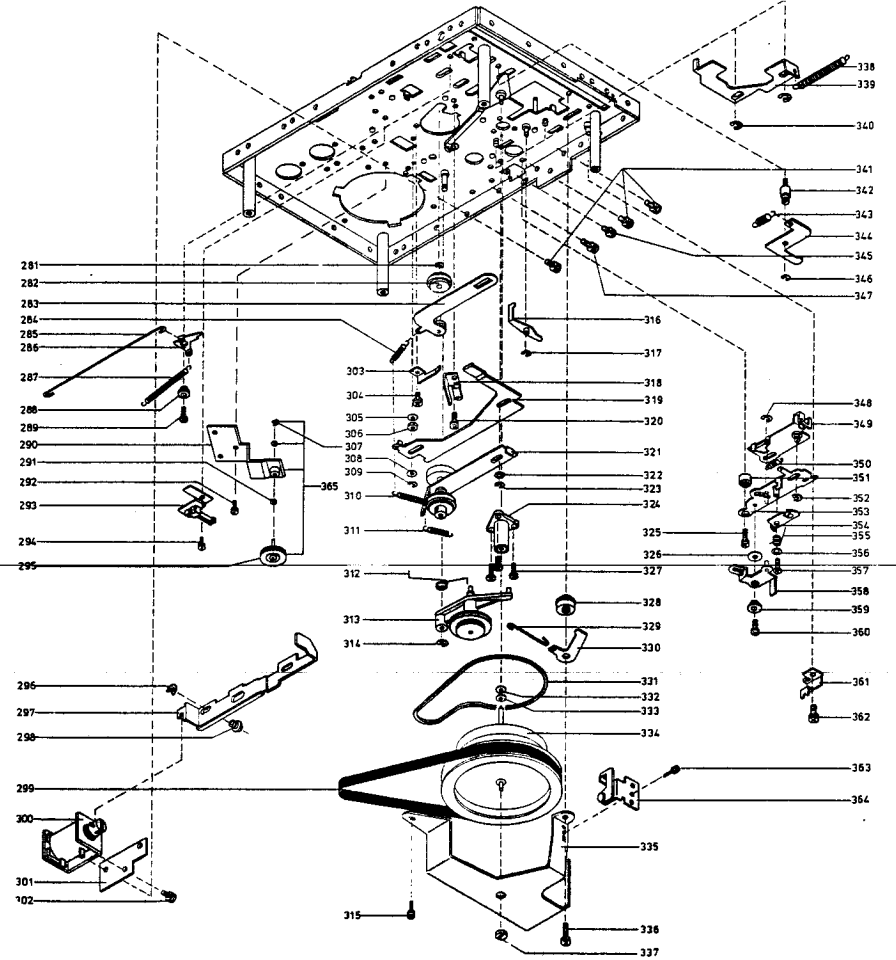
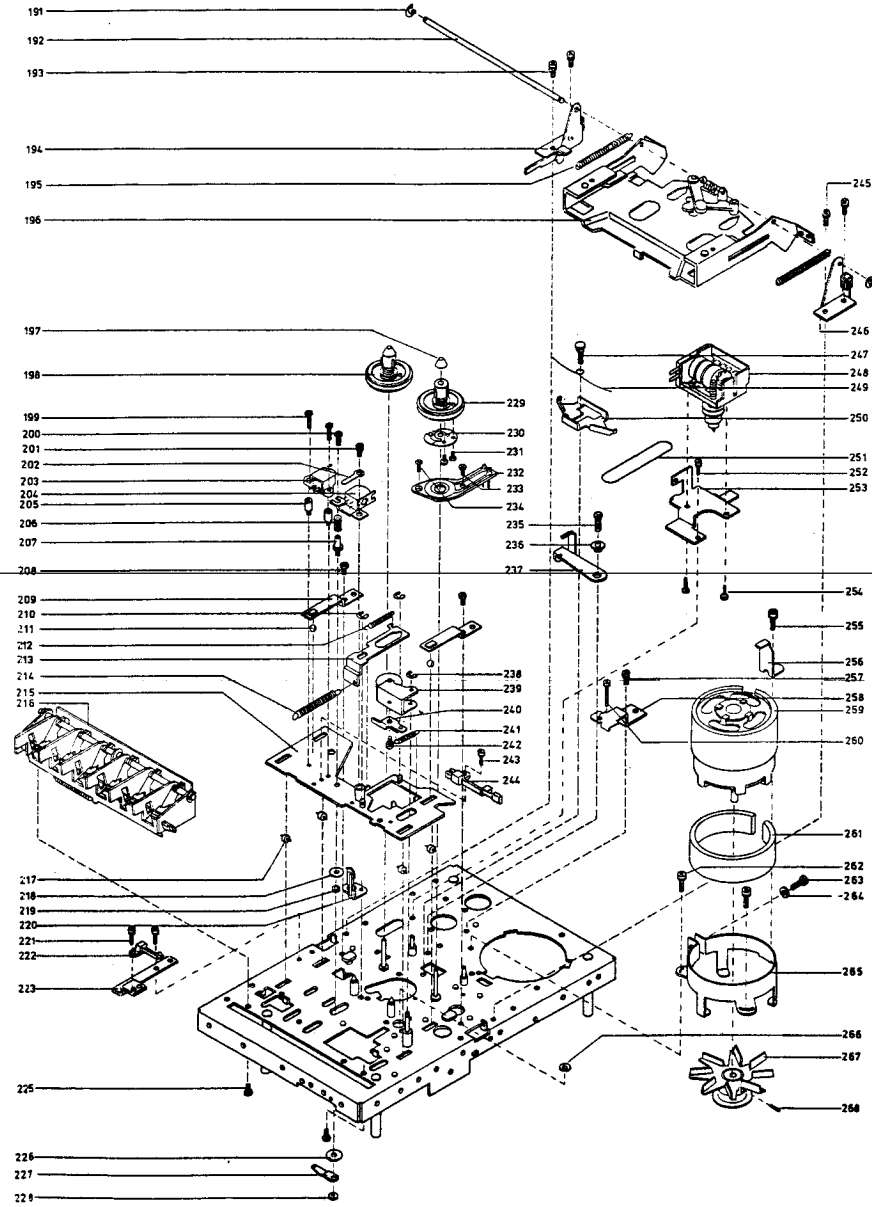
1	3412631	Cabinet, complete, teak	47	3322050	Window	115	2812043	Spring
	3412633	Cabinet complete, rosewood	48	7212021	Jack socket	116	2395031	Spire
	3412634	Cabinet, complete, oak	49	2548141	Bracket	117	8050071	Tuner
2	2380003	Square nut, M3	51	2038007	Screw AM3 x 6 DIN963	118	6270198	Socket, complete
3	0335149	Spring	52	3470083	Side plate	119	7211049	Socket, 5-contact
4	2072706	Threaded pin M3 x 10DIN438	53	2038247	Screw AM3 x 6 DIN84	120	7211050	Socket, 75 ohms
5	8002319	PC unit	54	2038247	Screw AM3 x 6 DIN84	121	2641062	Locking plate
6	8002318	PC4	55	2380092	Nut	122	2641061	Bushing
	2548134	Bracket	56	3191113	Profile	123	8052107	Chassis
7	2548146	Bracket	57	2038247	Screw AM3 x 6 DIN84	124	2038007	Screw AM3 x 6 DIN963
8	2038206	Screw AM3 x 4 DIN84	58	2038216	PC3	125	2038247	Screw AM3 x 6 DIN84
9	2038247	Screw AM3 x 6 DIN84	59	8002286	PC9	126	3470084	Side plate
10	3151155	Bracket	60	8004174	PC9	127	3454233	Bottom
11	2775593	Button, SPKR 1	61	2039006	Screw	128	2622015	Washer
	2775594	Button, SPKR 2	62	2380011	Hexagon nut M3	129	2930075	Bushing
	2775595	Button, ST-AFC	63	2542467	Bracket	130	2038247	Screw AM3 x 6 DIN84
	2775596	Button, MONO	64	2548147	Bracket	131	2042239	Screw AM4 x 25 DIN84
	2775597	Button, TAPE	65	2038007	Screw AM3 x 6 DIN963	132	2622015	Washer
	2775598	Button, PHONO	66	2038201	Screw AM3 x 3 DIN84	133	2038247	Screw AM3 x 6 DIN84
	2775599	Button, LW	67	2938081	Rubber bushing	134	2034236	Screw AM2 x 3 DIN84
	2775600	Button, MW	68	2622024	Washer	135	2624044	Washer
	2775601	Button, FM	69	0585027	Plastic foot	136	7510029	Switch
	2775602	Button, P1	70	2015009	Screw 3/5 x 13 mm	137	2038247	Screw AM3 x 6 DIN84
	2775603	Button, P2	71	2622015	Washer	138	2542466	Bracket
	2775604	Button, P3	72	2038216	Screw AM 3 x 10 DIN84	139	2810094	Spring
	2775605	Button, P4	73	2816150	Bronze spring	140	2775665	Button, memory
	2775606	Button, OFF	74	3030037	Hinge	141	6275371	Wire bundle with socket
12	3302274	Screen, volume	75	3162120	Cover, mic.	142	2834062	Shaft
13	3190066	Pointer glass	76	2038007	Screw AM3 x 6 DIN963	144	3151157	Holder
14	3302109	Screen	77	2043012	Screw AM3 x 8 DIN965	145	2038066	Screw
15	3191115	Dial with sliders	78	2038206	Screw AM 3 x 4 DIN84	146	2542468	Bracket
16	3015079	Slide	79	2013201	Screw 2.9 x 6.5 mm DIN7981	147	2038247	Screw AM3 x 6 DIN84
17	2568523	Front profile with sliders	80	2622052	Fibre washer	148	2038235	Screw AM3 x 25 DIN84
18	3152241	Screen, bass	81	8002301	PC6	149	3152100	Holder
19	3152243	Screen, treble		2548111	Bracket	150	2039901	Screw AM3x8DIN7985.black
20	3152242	Screen, balance		2622248	Mica sheet TO-220	151	2542469	Bracket
21	2724050	Wheel		2624032	Spring washer TO-220	152	2622041	Washer
22	2568483	Bracket		2938140	Bushing TO-220	153	2013062	Screw 2.84 x 6.35 mm
24	3152063	Holder	82	2514022	Clamp	155	2013247	Screw AM3 x 6 DIN84
25	2038007	Screw AM3 x 6 DIN963	83	2039010	Screw AM3x6DIN7985,black	156	2724033	Wheel
26	3152234	Screen, level	84	2038220	Screw AM3 x 10 DIN84	157	4310011	Variable capacitor
27	3015032	Slide	85	2622024	Washer	158	7211042	Socket FM
28	3190076	Pointer glass	86	2938081	Rubber bushing		7211043	Socket AM
29	3015084	Slide	87	2034231	Screw AM2 x 4 DIN84	159	2576050	Spacer
30	3152093	Screen	88	2038007	Screw AM3 x 6 DIN963	160	2038247	Screw AM3 x 6 DIN84
31	2640034	Clamp	89	2542465	Bracket	161	3164333	Cover
32	2042240	Screw AM4 x 10 DIN84	91	2810094	Spring	162	2034042	Screw
33	2542470	Bracket	92	8013193	Mains transformer	163	2013024	Screw 2.9 x 6.5DIN7981
34	2013024	Screw 2.9 x 6.5 DIN7981	93	2039010	Screw AM3x6DIN7985,black	164	8004175	PC5
35	2038247	Screw AM3 x 6 DIN84	94	2622052	Fibre washer	165	2038076	Screw
36	2622052	Fibre washer	95	3358119	Heat sink	167	8004173	PC8
37	8002336	PC2	97	2542447	Bracket	168	8004172	PC7
	2548143	Bracket, left	98	7500033	Fuse holder	169	2038247	Screw AM 3 x 6 DIN84
	2548134	Bracket, right	99	3120194	Holder	170	2622015	Washer
	2622245	Mica sheet TO-126	100	7401001	Mains-voltage switch	171	3452326	Back plate
	2624031	Spring washer TO-126	101	7211047	Socket, 2-contact	172	3112221	Chassis
38	3412911	Cabinet, side plate, teak, left	102	0534104	Screen	173	2070702	Threaded Pin M3 x 5 DIN553
	3412913	Cabinet, side plate, rosewood, left	103	2013017	Screw 2.9x13DIN7981,black	174	3412921	Cabinet, side plate, right, teak
	3412914	Cabinet, side plate, oak, left	104	2038201	Screw AM3 x 3 DIN84		3412923	Cabinet, side plate, right, rosewood
39	2070702	Threaded pin M3 x 5 DIN553	105	2548158	Bracket		3412924	Cabinet, side plate, right, oak
40	2542450	Bracket	106	2038247	Screw AM3 x 6 DIN84	175	2038206	Screw AM3 x 4 DIN84
41	2622041	Washer	107	2643014	Clamp	176	2038206	Screw AM3 x 4 DIN84
42	2013062	Screw 2.84 x 6.35 mm	108	3454247	Bottom	177	2542495	Bracket
43	3151155	Bracket	109	2038007	Screw AM3 x 6 DIN963	178	3322052	Counter knob
44	2013062	Screw 2.84 x 6.35 mm	110	2542449	Bracket	179	2812081	Spring
45	3302110	Screen, tuning	111	2622041	Washer	180	2038075	Screw AM3 x 10 DIN84,nylon
46	2794023	Wheel	112	2013024	Screw 2.9 x 6.5 DIN7981	181	3015032	Slide
			113	2036203	Screw AM2.6 x 4 DIND84	182	3152092	Screen
			114	2775607	Button, ON-OFF	183	3015033	Slide
				2775608	Button, Dolby-NR			
				2775609	Button, CrO2			

1400/60

7400/65





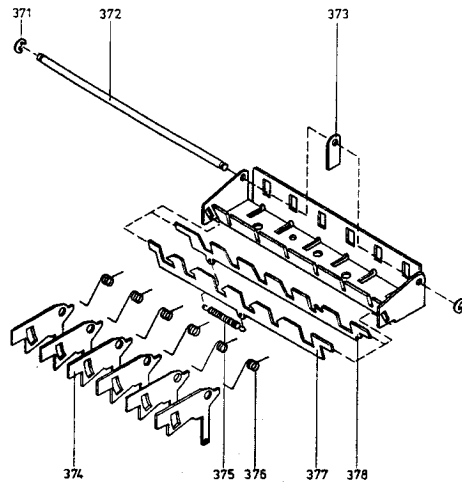


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191	2390073	E-ring	216	7410017	Pushbutton unit with buttons	240	2530332	Bracket
192	2831018	Shaft		2775666	Pushbutton <<	241	2818043	Spring
193	2036008	Screw AM2.6 × 5 with washer		2775667	Pushbutton >>	242	2034236	Screw AM2 × 3
194	2542482	Bracket		2775668	Pushbutton >	243	2036009	Screw 2.6 × 6 with washer
	3010009	Stop (rubber)		2775669	Pushbutton eject/stop	244	7510027	Pause contact
195	2818025	Spring		2775670	Pushbutton record	245	2036008	Screw AM2.5 × 5 with washer
196	3151159	Cassette holder complete		2775671	Pushbutton pause	246	2542483	Bracket
	2818053	Spring for eject		3980941	Glue for buttons		3010009	Stop (rubber)
	2854063	Arm right (eject)	217	2794037	Roller	247	2831029	Shaft
	2854064	Arm left (eject)	218	2622196	Washer	248	3370126	Counter
	2390073	E-ring 2.5ø	219	2389034	Special nut	249	2819124	Spring
	2992075	Brass tap	220	2850086	Arm	250	2542432	Bracket
197	3164143	Cover	221	2036008	Screw AM2.6 × 5 with washer	251	2732046	Belt
198	2726120	Turntable	222	7400138	Switch	252	2036008	Screw AM2.6 × 5 with washer
199	2024239	Screw AM2 × 12	223	2542485	Bracket	253	2542500	Bracket
200	2034207	Screw AM2 × 5	225	2036008	Screw AM2.6 × 5 with washer	254	2038952	Screw AM3 × 4
201	2034036	Screw AM2 × 4 with washer	226	2622256	Washer	255	2038063	Screw 3 × 5 with washer
202	7530076	Solder tag	227	2854029	Arm	256	2542486	Bracket
203	860039	Erase head	228	2380113	Nut	257	2036008	Screw AM2.6 × 5 with washer
204	8600038	Tapehead	229	2726120	Turntable	258	2542484	Bracket
205	2576052	Spacer	230	2819127	Contact spring	259	3400047	Motor
206	2818024	Spring	231	2033008	Screw AM 1.7 × 3	260	2036014	Screw AM2.6 × 15
207	2576053	Spacer	232	6140533	Print contact	261	3170117	Insulation for motor
208	2036012	Screw AM2.6 × 3	233	2034033	Screw AM2 × 3	262	2038063	Screw AM3 × 5 with washer
209	2542363	Bracket	234	2034033	Screw AM2 × 3	263	2039908	Screw AM3 × 10
210	2390073	E-ring 2.5ø	235	2036203	Screw AM 2.6 × 4	264	2622013	Washer ø3
211	2917012	Ball ø3	236	2932055	Bushing	265	3151160	Holder for motor
212	2818042	Spring	237	2548130	Bracket	266	2624040	Washer
213	2542426	Bracket	238	2390073	E-ring 2.5ø	267	<del>2070702</del>	Fan blade 3410007
214	2818048	Spring	239	2804036	Thrust roller	268	2070702	Threaded pin
215	3112226	Tapehead chassis						

Pieseek Cveei 3302290

281	2390056	E-ring 1.5ø	309	2390056	E-ring 1.5ø	338	2818047	Spring
282	2804029	Idler wheel	310	2818028	Spring	339	2854028	Arm
283	2853049	Arm for idler wheel	311	2818044	Spring	340	2390072	E-ring 3ø
284	2818045	Spring	312	2819142	Spring	341	2038063	Screw AM3 × 5 with washer
285	2850056	Arm	313	2854050	Clutch, complete	342	2834058	Shaft for arm
286	2542356	Bracket	314	2390073	E-ring 2.5ø	343	2818046	Spring
287	2818052	Spring	315	2038063	Screw AM3 × 5 with washer	344	2851066	Arm
288	2932055	Bushing	316	2854048	Pause arm	345	2036009	Screw AM2.6 × 6 with washer
289	2036008	Screw AM2.6 × 5 with washer	317	2390056	E-ring 1.5ø	346	2390073	E-ring 2.5ø
290	2542501	Bracket	318	3015038	Guide plate	347	2038063	Screw AM3 × 5 with washer
291	2624039	Washer	319	2854026	Arm	348	2390073	E-ring 2.5ø
292	2038063	Screw AM3 × 5 with washer	320	2036008	Screw AM2.6 × 5 with washer	349	2853051	Arm
293	7510026	Bracket with switch	321	2853048	Arm complete	350	2818049	Spring
294	2036009	Screw AM2.6 × 6 with washer	322	2641041	Washer, complete	351	2932079	Bushing
295	2724057	Pulley	323	2390056	E-ring	352	2390073	E-ring 2.5ø
296	2390072	E-ring 3ø	324	2905069	Capstan shaft	353	2542428	Bracket
297	2542431	Bracket	325	2036010	Screw AM2.6 × 8 with washer	354	2854051	Pause arm
298	2932077	Bushing	326	2622257	Washer ø4	355	2819126	Spring
299	2732042	Drive belt	327	2036903	Screw AM2.6 × 5	356	2622254	Washer M2
300	6840217	Magnet Coil	328	2932078	Bushing	357	2034036	Screw AM2 × 6 with washer
	2818050	Spring	329	2850085	Arm	358	2854049	Arm
301	3151148	Holder for magnet coil	330	2530333	Bracket	359	2932080	Bushing
302	2038069	Screw AM3 × 4 with washer	331	2732044	Belt	360	2034037	Screw AM2 × 6 with washer
303	2816097	Guide plate, spring	332	2622253	Washer	361	2542480	Bracket
304	2036012	Screw AM2.6 × 3	333	2622253	Washer	362	2036007	Screw AM2.6 × 4 with washer
305	2624036	Spring washer M2.6	334	2794073	Flywheel	363	2038063	Screw AM3 × 5 with washer
306	2380113	Nut M2.6	335	2548149	Bracket for flywheel	364	2542479	Bracket
307	2390056	Locking plate	336	2036007	Screw AM2.6 × 4 with washer	365	2542502	Bracket with pulley
308	2624041	Washer, plastic	337	2905072	Bottom bearing			



- 371 2390002 E-ring 3.2ø
- 372 2831030 Shaft
- 373 3151150 Holder
- 374 2853054 Arm
- 375 2819129 Spring
- 376 2819130 Spring
- 377 2853052 Slide arm
- 378 2853053 Slide arm

PARTS NOT SHOWN

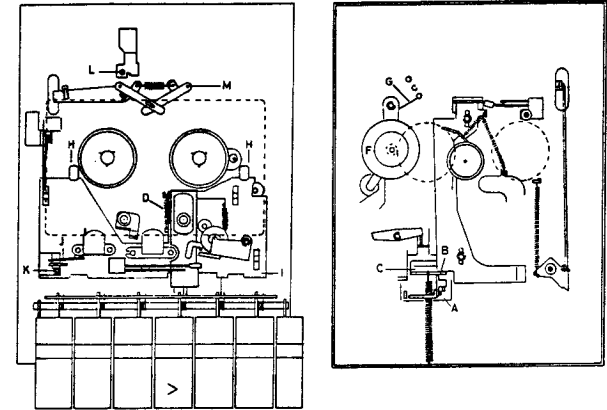
- 3532134 Diagram
- 3391520 Outer carton
- 3397303 Foam packing, front
- 3397304 Foam packing, rear
- 6271101 Mains lead with Euro-plug
- 6780041 Test tape kit
- 6270202 Wire kit for repair (recorder)
- 6275370 Wire bundle, radio to recorder
- 7210130 Socket/housing 12/11-contact
- 6275368 Wire bundle, recorder
- 7210129 Socket/housing 8/7-contact
- 7500114 Contact pin
- 8410008 60 Hz kit

To convert from 60 cycles to 50 cycles  
 1st 4130099  
 1st 8410007

MECHANICAL FUNCTION AND ADJUSTMENT

The sketches below show the mechanical functions of the tape mechanism. Only activate mechanical parts are accentuated.

Play



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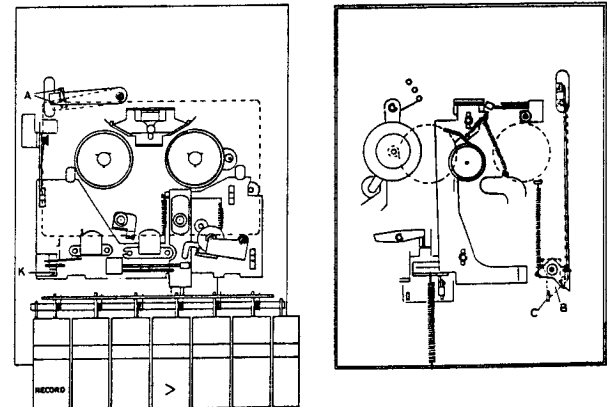
When the Play button is in its depressed and locked position there should be contact between A, B and C; and spring D should be tight. Also, plate I should go all the way forwards against stop blocks H.

When the right-hand reel is stopped, clutch F should slide in the friction between felt and Delrin (Delrin is a Plastic). If it does not, tighten spring G or replace clutch F.

The switch J must be OFF, but take care that the switch J is ON in position stop and fast tape motion. This may be adjusted by the screw K.

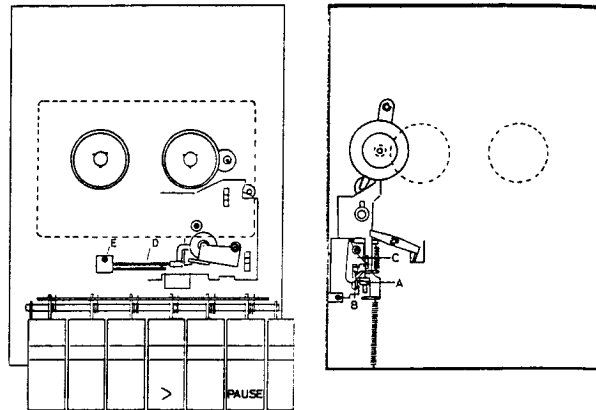
The screw L is adjusted until the release lever M is easily released by depressing the cassette holder, with a cassette in it.

Record



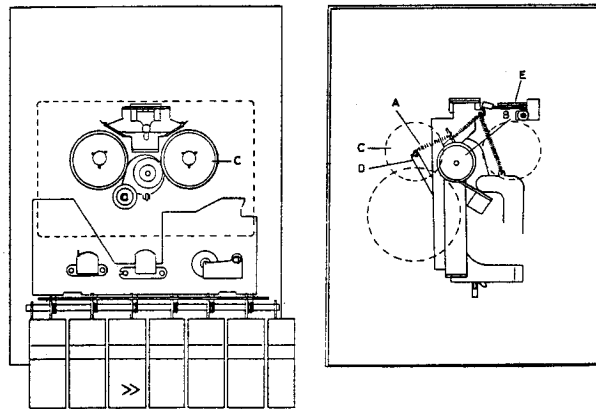
Arm A should be adjusted (bent) so that angle B provides positive locking of arm C (Record button) when a cassette is inserted with the record lock window open and so that arm B is positively disengaged from arm C when the cassette record lock window is closed.

## Pause



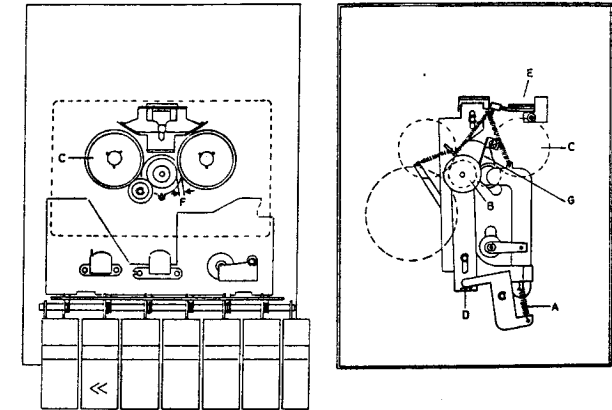
Tag A should be bent so that the thrust roller is pulled positively clear of the capstan shaft and so that pin B is positively gripped by locking mechanism C when the pause button is depressed. Switch D should be ON. This can be adjusted by loosening screw E and turning switch D.

## Fast forward



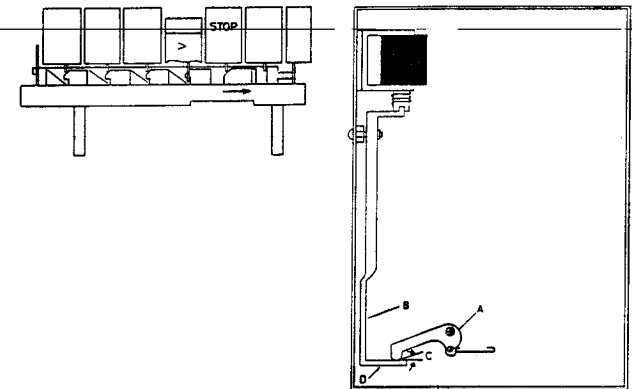
Spring A should be only just tight enough so that the transmission slips in the clutch below idler wheel B when reel C is held fast. Adjustment is carried out by bending D. (Spring A must not be tight during Rewind). It may be necessary to replace or adjust idler wheel and clutch B. Switch E should be ON.

## Rewind



With the unit set at Stop, adjust leaf spring G so that spacing F  $\cong$  0.4 mm. Spring A should be only just tight enough so that the transmission slips in the clutch below idler wheel B when reel C is held fast. It may be necessary to adjust or replace clutch B. Switch E should be ON.

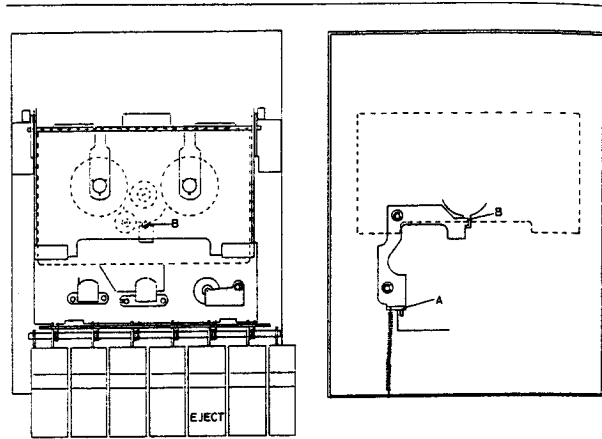
## Stop/automatic stop



The arm B should be bent at point D so that spacing C between A and B is zero with the unit in the Stop and Play positions.

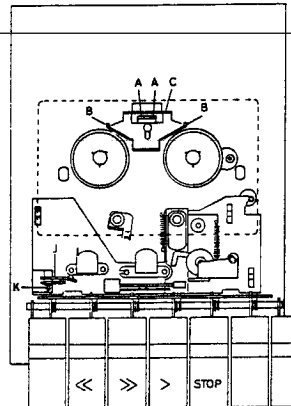
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## Eject



Eject should be adjusted so that notch B locks the cassette holder when the latter is pressed down and so that it releases positively when the Eject button is depressed (with all other buttons released). Adjustment is performed by bending the angle A.

## Brakes



Brakes B should disengage positively and simultaneously from the reels when one of the fast tape movements or Play are operated. The brakes are adjusted by bending tags A. In addition, adjustment should be so that clearance exists between A and brake disc C with the unit set at Stop.

## Lubrication

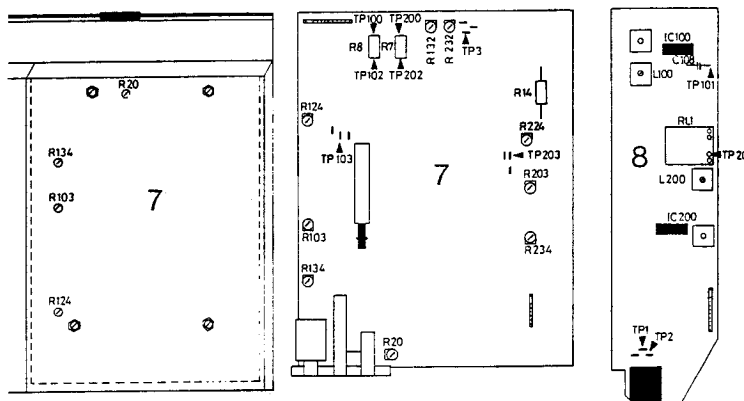
The need for lubrication is negligible, but the directions given below should be followed during overhauls and when replacing major mechanical components.

Capstan shaft bearing (top) 2 x Sliding surface against pulley	3984211 Oilit, Castrol (small amount)
Idler wheel 282: Face sliding against shaft 283 Angle 354: Face sliding against arm 349, arm 354 and arm 358 Angle 283: Face sliding against arm 277 Angle 339: Face sliding against chassis and washers on two guide pins Shafts for turntables	3984216  Molykote (pasta G, small amount)
Ball 211: Surface of contact with 209 and 215 Tape head bridge 215: Surface of contact with 217  (4 rollers) Roller 217: Surface of contact between chassis and 215 Arm 213: Face sliding against chassis 215	3984217 Gear grease Bosch (small amount)
Capstan bearing (bottom)	Keep clean

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ELECTRICAL ADJUSTMENTS  
TAPE RECORDER

Non-bracketed references apply to left channel; bracketed ones apply to right channel.



## Azimuth

Demagnetise sound head and erase head.  
Connect AF vacuum-tube voltmeter at 7TP100 (7TP200).  
Insert azimuth tape 6780036.  
Adjust screw A for max. response in **both** channels and identical output for left and right channels (mean value).  
Lock screw A with glue.

## 19 kHz Filter

Connect tone generator at 8TP101 (8TP201). Set generator to deliver 19 kHz 100 mv.  
7R134(7R234) to mid-scale.  
Connect AF vacuum-tube voltmeter at 7TP102(7TP202).  
Adjust 8L100(8L200) for min. AF vacuum-tube voltmeter reading.

## Playback level

Insert Pegel tape (333 Hz), 6780035.  
Adjust 7R134 for 720 mV as measured with AF vacuum-tube voltmeter at 7TP100.  
Adjust 7R234 for 720 mV as measured at 7TP200.

## Playback frequency response

Activate CrO<sub>2</sub>.  
Insert playback frequency tape 6780056 (time constants 70 μsec. and 3180 μsec.).  
Adjust 7R103 so that 12.5 kHz level is max. 1.5 dB below 250 Hz level as measured with AF vacuum-tube voltmeter at 9TP100. (7R203 at 7TP200).

Indicator and  
Record Amplifier

Stop erase generator (short-circuit 7C6).  
Set tone generator to deliver 333 Hz 100 mV as measure with AF vacuum-tube voltmeter at 8TP1.  
Connect AF vacuum-tube voltmeter at 7TP103.  
Set record potentiometer so that 3 V is measured at 7TP103.  
Adjust 7R20 so that first red LED lights.  
Back off tone generator 20 dB.  
Read and note voltage at 7TP103.  
Set tone generator to deliver 12.5 kHz.  
Adjust 7R124 so that 12.5 kHz level at 7TP103 is 14 dB higher than 333 Hz level.  
Set tone generator to deliver 333 Hz 100 mV as measured with AF vacuum-tube voltmeter at (8TP2).  
Connect AF vacuum-tube voltmeter at (7TP203).  
Set record potentiometer so that 3 V is measured at (7TP203).  
Back off tone generator 20 dB.  
Read and note voltage at (7TP203).  
  
Set tone generator to deliver 12.5 kHz.  
Adjust (7R224) so that 12.5 kHz level at (7TP203) is 14 dB higher than 333 Hz level.  
Remove short-circuit from across 7C6.

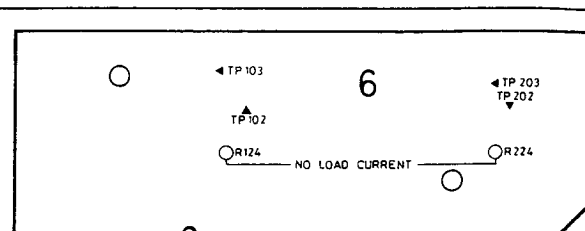
## Bias

Set tone generator to deliver 333 Hz 100 Hz 100 mV as measured with AF vacuum-tube voltmeter at 8TP(8TP2).  
Connect AF vacuum-tube voltmeter at 7TP100 (7TP200).  
Insert standard tape 6780040.  
Adjust record potentiometer so that first red LED only just lights.  
Back off tone generator 20 dB.  
Record and play back 333 Hz and 12.5 kHz. Adjust 7R132(7R232) so that 12.5 kHz level is 1 dB below 333 Hz level.

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## ADJUSTMENT RADIO PART

## No-signal current

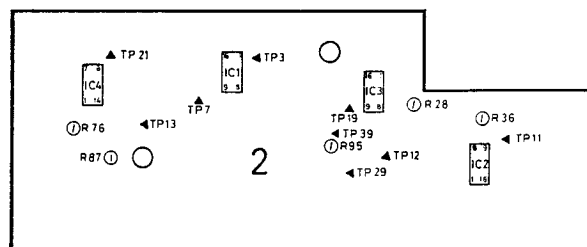


No-signal current is adjusted with the receiver cold and with the volume control turned fully down. *Speakers must not be connected.*

With 6R124 (6R224) adjust for 25 mA collector current in 6IC100 (6IC200) or 10 mV across 6R125 (6R225), 6TP102 and 6TP103 (6TP202 and 6TP203).

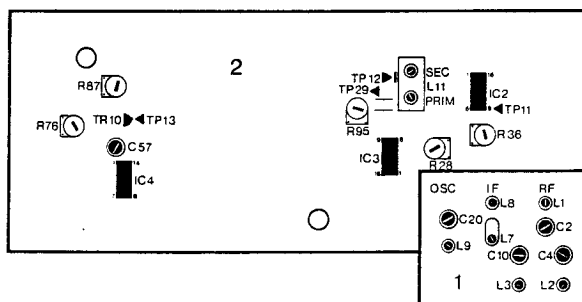
After power has been applied for 10 minutes with the volume control turned fully down, check the no-signal current and again adjust for 25 mA or 10 mV across the emitter resistor.

## Tuning Voltage



Depress the FM button and turn the FM dial pointer against the right-hand stop. Adjust 2R28 for 25.5 V at 2TP19. Turn FM dial pointer against the left-hand stop. Adjust 2R95 for 4.6 V at 2TP39.

## Front end, tuner



With the tuning control set the dial pointer to 89 MHz and the sweep generator to 89 MHz. With 1L9, 1L1, 1L2 and 1L3 adjust for max. response and symmetrical IF curve at pin 15 of 2IC2.

With the tuning control set the dial pointer to 106 MHz and the sweep generator to 106 MHz.

With 1C20, 1C2, 1C4 and 1C10 adjust for max. response and symmetric IF curve.

Check the dial calibration and repeat adjustment if necessary.

With the tuning control set the dial pointer to 97 MHz and the sweep generator to 97 MHz. With 1L7 and 1L8 adjust for max. response and symmetrical IF curve.

## IF and detector

Tune in a weak sweep signal. AFC OFF.

Take off S-curve at pin 5 of 2IC2. With 2L11 prim. and sec.

Adjust for max. response and symmetrical S-curve.

While alternately switching the AFC on and off adjust 2L11 sec. until the AFC function does not affect the S-curve.

## Tuning indicator

Tune the receiver correctly to an FM station (0 V between pin 5 and pin 6 of 2IC2 (2TP12 and 2TP29).

With 2R87 adjust for identical brightness of both lamps.

## Level

Apply a 10µV signal to the aerial input.

Depress AFC/ST button.

Tune receiver accurately to the signal generator frequency, say 97 MHz.

Adjust 2R36 so that muting only just operates.

## Decoder

Shut off the stereo decoder input by shorting 2R58. With 2C57 adjust the internal oscillator accurately to 19 kHz as measured at 2TP21.

The accuracy can be checked in two ways:

1. By connecting a frequency counter to 2TP21.
2. By applying 19 kHz from 2TP21 to the oscilloscope y-input and 19 kHz from a stereo coder to the oscilloscope x-input. When the Lissajous figure is stationary, adjustment is correct.

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

3. Tune in a stereo signal. Turn 2C57 to one side until the stereo lamp goes out. Then turn 2C57 to the other side until the stereo lamp goes out. The setting midway between these two settings represents correct adjustment.

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## Channel separation

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

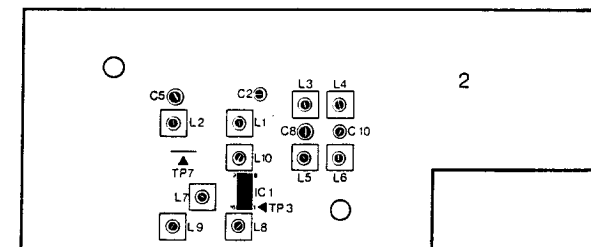
Connect wattmeter to amplifier output.

Set treble control at min. With 2R76 adjust for min. output in the unmodulated channel.

Make this adjustment both with unmodulated left channel and with unmodulated right channel.

Coils 2L12, 2L13, 2L14 and 2L15 are factory adjusted and should not be touched.

## AM IF



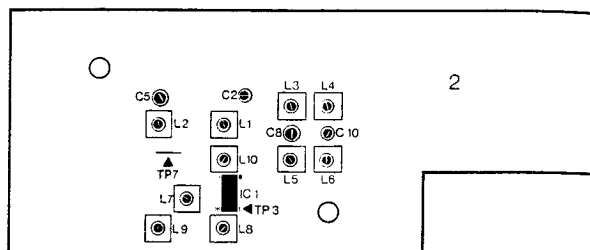
Set receiver to MW, approx. 575 kHz.

Connect sweep generator to pin 1 of 2IC1 (2TP3).

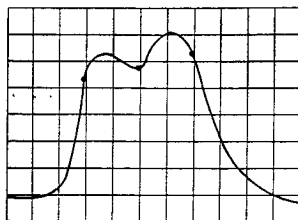
Set sweep generator at 468 kHz, Δ f 10 kHz (IF can be 468 kHz ± 1.5 kHz due to ceramic filter tolerances).

Connect oscilloscope to 2TP7.

Turn dust cores of 468 kHz parallel trap 2L5 and series trap 2L6 all the way out.



With 2L7, 2L8, 2L9 and 2L10 adjust for maximim IF curve (as shown in sketch).



NOTE: Use weakest possible signal while aligning, so as avoid operating the AGC.

#### Parallel and series traps

Connect signal generator to aerial input through dummy aerial. Set generator to deliver 468 kHz, mod. 30%, 400 Hz.  
Connect wattmeter to amplifier output. Set treble control at min.  
Set signal generator frequency to centre of receiver IF passband.  
With 2L5 and 2L6 adjust for min. wattmeter reading.

#### MW oscillator and signal frequency circuits

Connect signal generator to aerial input through dummy aerial. Set generator to deliver 575 kHz, mod. 30%, 400 Hz.  
Connect wattmeter to aerial output.  
Depress MW button. Set receiver to 575 kHz.  
With 2L1 align oscillator so that receiver is centered on the transmitting frequency.  
With 2L4 adjust for max. wattmeter reading.  
Set signal generator and receiver at 1495 kHz.  
With 2C2 align oscillator.  
With 2C10 adjust signal-frequency circuit for max. response.  
Repeat adjustment procedure until correct dial matching and max. signal-frequency circuit response are obtained.  
End with 2C10.

#### LW oscillator and signal frequency circuits

Depress LW button. Set signal generator and receiver at 155 kHz.  
With 2L2 align oscillator.  
With 2L3 adjust signal-frequency circuit for max. response.  
Set signal generator and receiver at 320 kHz.  
With 2C5 align oscillator.  
With 2C8 adjust signal-frequency circuit for max. response.  
Repeat adjustment procedure until correct dial matching and max. signal frequency circuit response are obtained.  
End with 2C8.

NOTE: Use a weak signal when adjusting the AM oscillators. Adjust, by listening, for max. noise suppression in the centre of the frequency.

TECHNICAL DATA, DIN 45500

Amplifier

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

#### FM tuner

Power output	2 x 25 W RMS/4 ohms
	2 x 20 W RMS/8 ohms
	2 x 40 W music/4 ohms
	2 x 25 W music/8 ohms
Speaker impedance	4 ohms
Harmonic distortion	< 0.1%
Intermodulation	< 0.15%
Frequency range $\pm 1.5$ dB	20 - 30,000 Hz
Damping factor	> 35
PHONO, inputs	2.2 mV/47 kohms
Overload margin	80 mV
Signal-to-noise ratio	> 60 dB
TAPE, inputs	400 mV/100 kohms
Signal-to-noise ratio	> 60 dB
Channel separation 1000 Hz	> 56 dB
Channel separation 250 - 10,000 Hz	> 40 dB
TAPE, outputs (norm. input phono)	30 mV/100 kohms
Headphones	14 V/220 ohms
BASS control at 40 Hz	$\pm 12$ dB
TREBLE control at 12,500 Hz	$\pm 12$ dB
BALANCE control	$\pm 60$ dB

#### AM tuner

Aerial impedance	75/300 ohms
Range	87.5 - 108 MHz
Sensitivity, stereo, 46 dB	35 $\mu$ V/75 ohms
Frequency range	20 - 15,000 Hz
Harmonic distortion	< 0.4%
Channel separation, 1000 Hz	> 35 dB
Channel separation, 250 - 10,000 Hz	> 30 dB
Pilot suppression, 19 kHz	> 65 dB
38 kHz	> 70 dB

#### Tape recorder

LW	147 - 350 kHz
MW	520 - 1610 kHz
Sensitivity LW 200 kHz, 20 dB S/N IEC	90 $\mu$ V
MW 1000 kHz, 20 dB S/N IEC	90 $\mu$ V
Bandwidth 3 dB	6 kHz

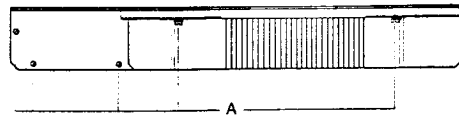
#### Other data

Compact cassette	C60 - C90
Tape head	Super permalloy
Wow & flutter	< $\pm 0.20\%$
Speed deviation	< $\pm 1\%$
Fast forward and rewind	85 sec.
Frequency range, chrom	30 - 14,000 Hz
Signal-to-noise ratio chrom	> 56 dB
Signal-to-noise ratio chrom with Dolby	> 63 dB
Erase	> 70 dB
Microphone input	0.1 mV/10 kohms

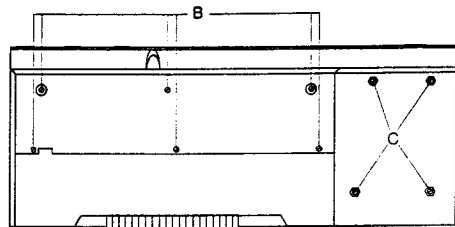
Power supply	110 - 130 - 220 - 240 volt
Frequency	50 Hz
Power consumption	20 - 160 watts
Dimensions W x H x D	68 x 9 x 27 cm
Weight	11 kg

Subject to change without notice



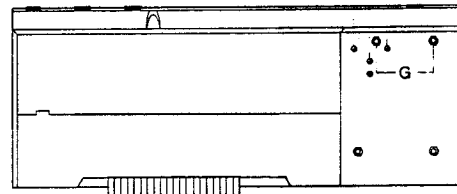
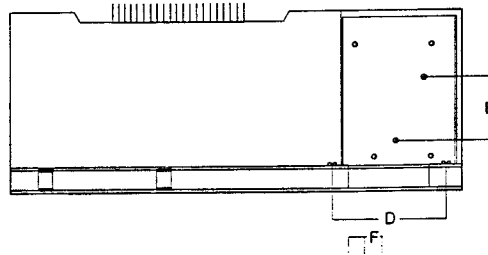
ADSKILLELSE/  
DISASSEMBLY

Skrueerne mærket A fjernes og den lille bagplade samt toppladen kan aftages.  
Remove screw A and the small back plate and the top plate may be dismantled.



Skrueerne mærket B fjernes og bundpladen under radiodel kan aftages.  
Skrueerne C og D fjernes, det lille profilstykke fjernes og kassetteværket kan udtages (HUSK at aftage de to stikforbindelser).

Remove screws B and the bottom plate under the radio unit may be dismantled.  
Remove screws C and D, remove the small profile and the tapedeck may be dismantled. (Do not forget to remove the two plug connections).

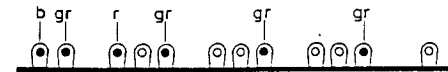


Skrueerne E, F og bøsningerne G fjernes. PC7 og 8 kan nu forsigtig trækkes bagud og tages ud af chassiet (HUSK at aftage de to stikforbindelser).  
Ved samling af apparatet justeres de to bøsninger G indtil højden af kassetteværket passer med topplade og frontprofil.

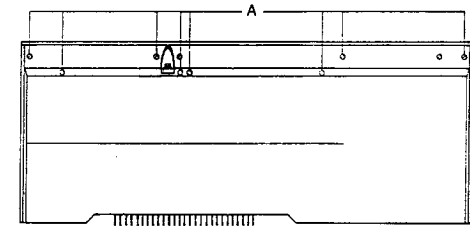
Remove screws E and F and the bushings G. PC7 and 8 may now be pulled carefully backwards and removed from the chassis.  
(Do not forget to remove the two plug connections).  
When assembling the set, adjust the two bushings G till the tapedeck height levels with topplate and front profile.

SERVICE TIPS  
Dismantling of front profile

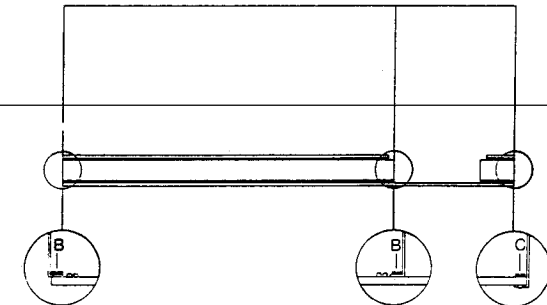
Dismantle top plate, bottom plate radio, tapedeck, and cabinet sides.



Push volume knob and tuning knob all the way to the left. Carefully take the dial cord out of the arms on the volume and the tuning knobs.  
Unsolder the leads on the preset unit.



Remove screws A and B.



Loosen screw C and carefully take the chassis sidepiece out of the notch in the front profile.

(The chassis bottom for the cassette unit may be loosened).

Remove plug from the VU indicator.

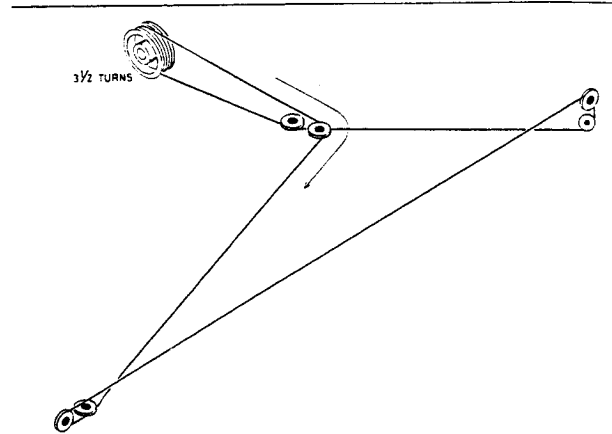
Carefully pull the front profile out (mind the cord drives) and remove the indicator holder.

When mounting the front profile make sure that the shafts of the slide potentiometers mesh with the slide knobs of the front profile.

Secure the dial cords with glue when they have been mounted.

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Dial drive



Dial cord is cut a length of 125 cm and mounted as shown in the sketch. (Dial cord, code no. 3955016).

Tape deck

A few Beocenter 2600 may be provided with tape decks which are not identical to the mechanical parts lists. The change includes the following points:

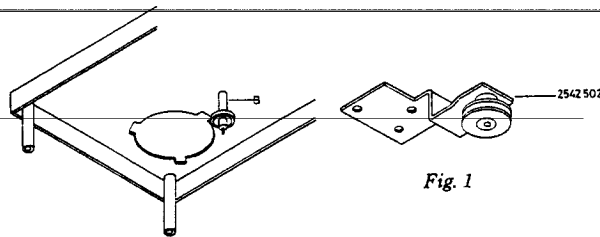
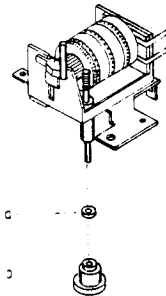


Fig. 1

1. Idler wheel pos. 295.  
When replacing idler wheel pos. 295 in tape decks as shown in fig. 1, the shaft B is broken off, and idler wheel and bracket No. 2542502 are mounted.
2. Counter pos. 248.  
When replacing the counter in tape decks where the counter is run from the underside of the chassis, pulley C and bushing D are dismantled. Pulley and bushing are turned and remounted (see fig. 2). Counter belt for this type of counter has code No. 2732043.

Fig. 2



Frekvens

Frekvens

0,3, 0,6 Hz  
1,2 Hz  
1,8 Hz, 3,6 Hz  
3,9 Hz  
4,3 Hz  
6 Hz  
10 Hz  
15 Hz  
25 Hz

Fejlkilde

Venstre og højre spole  
Trykrulle  
Opsamlekobling  
Koblingsrem (331)  
Drivrem  
Svinghjul  
Opsamlekobling  
Mellemhjul for kobling (295)  
Motor

Wow frequencies

Wow frequencies Source of Failure

0,3 Hz, 0,6 Hz Left and right reel  
1,2 Hz Thrust roller  
1,8 Hz, 3,6 Hz Take-up clutch  
3,9 Hz Clutch belt  
4,3 Hz Drive belt  
6 Hz Flywheel  
10 Hz Take-up clutch  
15 Hz Idler wheel for clutch  
25 Hz Motor

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