



C 846

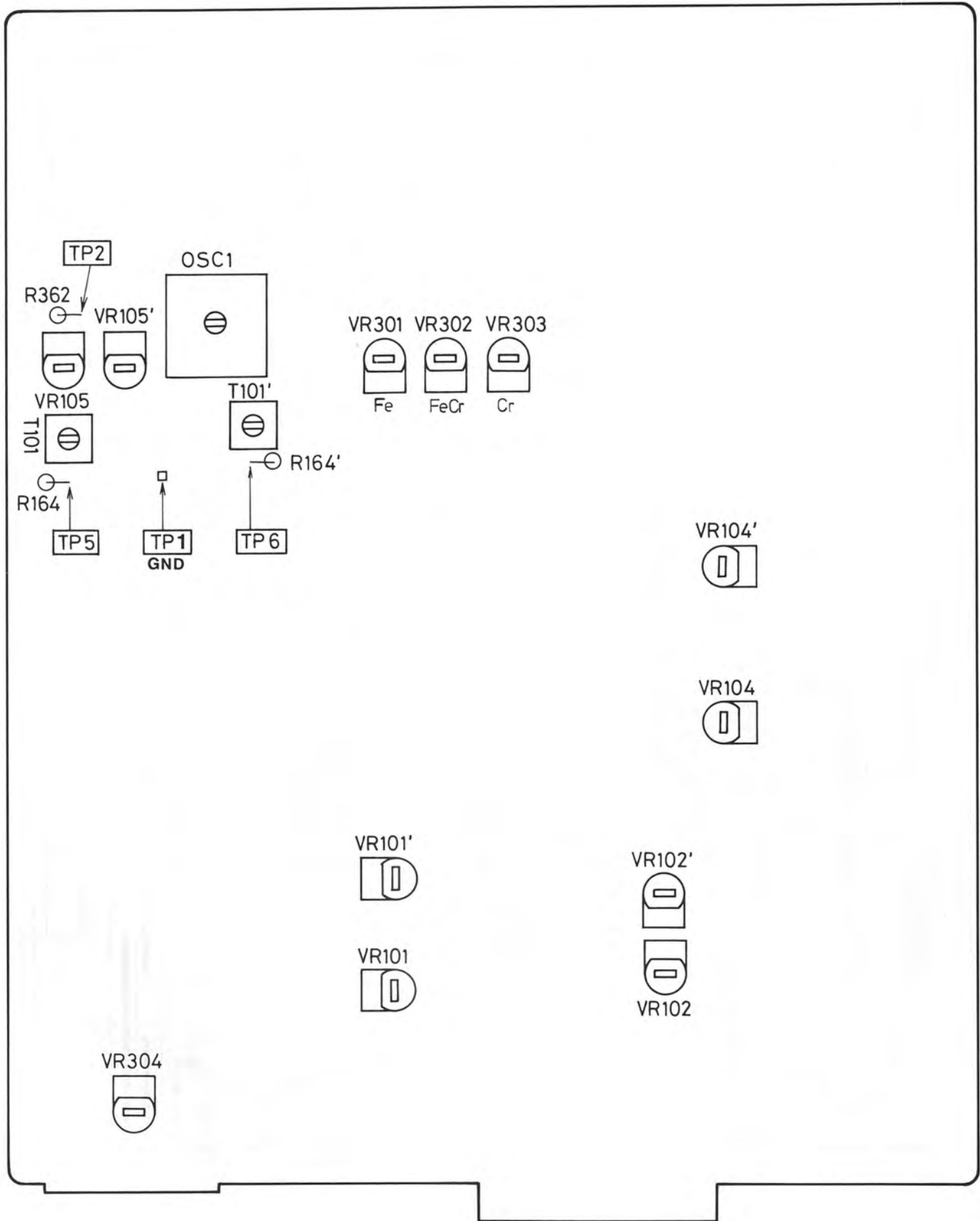


Service-Anleitung Service Manual Instructions de Service

Technische Daten (typische Werte)	Technical Data (typical values)	Caractéristiques techniques (valeurs caractéristiques)				
			Dolby B	Dolby C	Dolby B	Dolby C
Das Gerät erfüllt bzw. übertrifft die in DIN 45 500 festgelegten Anforderungen an Geräte der Heimstudio-Technik (HiFi).	The unit meets the requirements of DIN 45 500 for domestic HiFi equipment. The data given are based on the current DIN reference tapes.	Cet appareil surpasse par ses performances les exigences de la norme DIN 45 500 (matériel HiFi, grand public).				
Bandgeschwindigkeit	Tape speed	Vitesse de la bande	9,5 cm/s		4,75 cm/s	
Kurzzeitige Geschwindigkeitsschwankungen (Tonhöhenschwankungen) W.R.M.S. nach DIN Aufnahme/Wiedergabe	Wow and flutter Weighted RMS to DIN for recording/playback	Fluctuations instantanées de la vitesse (variations de la hauteur du son) W.R.M.S. selon DIN enregistrement/lecture	0,03 % 0,07 %		0,045 % 0,12 %	
Übertragungsbereich (bezogen auf DIN-Toleranzfeld) Fe-Band CrO ₂ -Band FeCr-Band Reineisen-Band	Frequency response (ref. to DIN tolerances) Standard Fe tape CrO ₂ tape FeCr tape Metal tape	Bande passante (ramenée à la plage de tolérance DIN) Bande Fe Bande CrO ₂ Bande FeCr Bande fer pur	25 – 24 000 Hz 25 – 24 000 Hz 25 – 24 000 Hz 25 – 24 000 Hz		25 – 16 000 Hz 25 – 17 000 Hz 25 – 18 000 Hz 25 – 19 000 Hz	
Ruhegeräuschspannungsabstand mit Dolby NR Fe-Band CrO ₂ -Band FeCr-Band Reineisen-Band	Signal-to-noise ratio with Dolby NR Standard Fe tape CrO ₂ tape FeCr tape Metal tape	Rapport signal/bruit avec Dolby NR Bande Fe Bande CrO ₂ Bande FeCr Bande fer pur	67 67 69 69	74 74 76 76	65 65 67 67	72 72 74 74
Übersprechdämpfung (bei 1000 Hz) zwischen zusammengehörigen Kanälen zwischen Kanälen in Gegenrichtung	Channel separation (at 1,000 Hz) between stereo channels in opposite direction	Diaphonie (à 1000 Hz) en sens stéréo en sens inverse	40 dB 70 dB			
Löschdämpfung (bei 1000 Hz)	Erasure (at 1000 Hz)	Atténuation d'effacement (à 1000 Hz)	70 dB			
Oszillator-Frequenz (Gegentaktoszillator)	Oscillator (push/pull oscillator)	Fréquence de l'oscillateur (oscillateur push-pull)	105 kHz			
Eingänge (Empfindlichkeit für 0 dB) Mikrofon (1/4" Koax.-Buchse) Receiver/Verstärker (RCA-Buchsen)	Inputs (sensitivity at 0 dB) Microphone (1/4" coaxial jack) Receiver/amplifier (RCA jacks)	Entrées (sensibilité pour 0 dB) Micro (prise coaxiale de 1/4") Ampli-tuner/amplificateur (prises RCA)	0,4 mV / 10 kΩ 70 mV / 60 kΩ			
Ausgänge Receiver/Verstärker (RCA-Buchsen) Kopfhörer (1/4" Koax.-Buchse)	Outputs Receiver/amplifier (RCA jacks) Headphones (1/4" coaxial jack)	Sorties Ampli-tuner/amplificateur (prises RCA) Casque d'écoute (prise coaxiale de 1/4")	560 mV / 4 kΩ 4 – 2000 Ω			
Umspulzeit für C 60 Cassette	Fast winding time for C 60 cassettes	Temps de rebobinage pour cassette C 60	80 s			
Bandlaufüberwachung (elektronisch) Abschaltzeit	Tape monitor (electronic) shut-off time	Contrôle du défilement de bande (électronique) Temps de déclenchement	1,5 s			
Netzspannung	Line voltage	Tension secteur	Model Europe 230 V Model USA/Kanada 115 V			
Netzfrequenz	Line frequency	Fréquence secteur	50/60 Hz			
Leistungsaufnahme	Power requirement	Consommation	40 W			

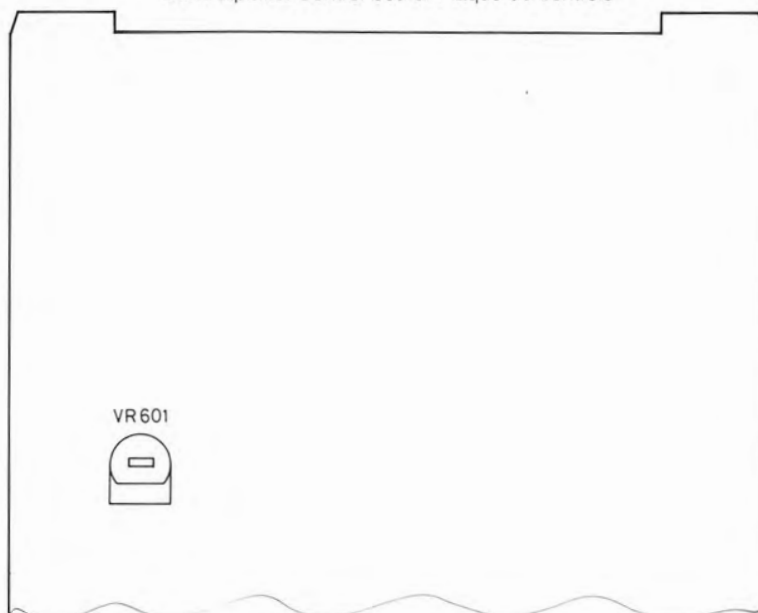
Abgleichanleitung C 846 · Adjustment instructions C 846

Signalquelle Signal source	Einstellung Signalquelle Signal source adjustment	Einstellung Gerät Unit adjustment	Meßgerät-Anschluß Testgear connection	Abgleichposition Adjustment position	Abgleich, Bemerkung Adjustment, Remarks
Bandlauf, Bandzug · Tape Run, Tape Tension (4,75 cm/s)					
Spiegelkassette Mirror cassette		Play: ON			Bandlauf prüfen Check tape run
Bandzugmeßkassette Torque Meter cassette				VR 601	50 ± 5 p/cm
Bandgeschwindigkeit · Tape Speed					
Meßkassette 1 Test cassette 1	3150 Hz	Play: ON Double Speed: OFF	Frequenzzähler an Frequency counter to OUTPUT L/R	VR 701	3150 Hz, \pm 4,75 cm/s
		Double Speed: ON		VR 702	6300 Hz, \pm 9,5 cm/s
Azimut · Azimuth (4,75 cm/s)					
Meßkassette 21 Test cassette 21	10 kHz	Play: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Azimutschraube A Azimuth screw A	Maximum, mit Lack sichern Lock with Lacquer
Wiedergabepegel · Playback level (4,75 cm/s)					
Meßkassette 21 Test cassette 21	400 Hz Dolby	Play: ON Dolby B: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	VR 102 L CH VR 102' R CH	560 mV
Wiedergabefrequenzgang · Frequency response (4,75 cm/s)					
Meßkassette 21 Test cassette 21	400 Hz/10 kHz (-20 db)	Play: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	VR 101 L CH VR 101' R CH	10-kHz-Pegel auf 400-Hz-Pegel angleichen. Adjust to level symmetry
Oszillator, HF-Sperrkreis · Oscillator, RF-trap (4,75 cm/s)					
IEC IV-Kassette IEC IV-cassette		Tape: Met Record: ON	Frequenzzähler an Frequency counter to TP 2 (R 362)	OSC 1	105 kHz \pm 2 kHz
			NF-Voltmeter an AF-voltmeter to TP 5 (R 164) TP 6 (R 164')	T 101 L CH T 101' R CH	Minimum HF Minimum RF
Aufnahmepegel · Record Level (4,75 cm/s)					
NF-Generator an AF-generator to INPUT L/R	400 Hz ca. 100 mV TDK MA AC-712 IEC IV	Tape: Met Record: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Record Level	560 mV OUTPUT L/R
				VR 104 L CH VR 104' R CH	560 mV
HF-Vormagnetisierung · RF-Magnetic-Biasing (4,75 cm/s)					
NF-Generator an AF-generator to INPUT L/R	400 Hz, 12 kHz ca. 100 mV TDK MA AC-712	Record: ON Monitor: ON Tape: Met	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Record Level	56 mV OUTPUT L/R
	BASF IEC I	Tape: Fe		VR 105 L CH VR 105' R CH	Bei Wiedergabe wird der 12-kHz-Pegel dem 400-Hz-Pegel angeglichen. Mehr Höhen = gegen den Uhrzeigersinn drehen. Adjust to level symmetry on playback test frequency, at treble emphasis: turn counter clockwise
	BASF IEC II	Tape: Cr		VR 301	
	Sony Duad IEC III	Tape: FeCr		VR 303	
		VR 302			
Pegelanzeige · Level indicator (4,75 cm/s)					
NF-Generator an AF-generator to INPUT L/R	400 Hz ca. 100 mV IEC IV Cassette	Tape: Met Dolby B: ON Record: ON Monitor: OFF	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Record Level	560 mV OUTPUT L/R
				VR 201 L CH VR 201' R CH	VU-Meter +3 db
				Record Level	630 mV OUTPUT L/R
				VR 304	LED Indicator 150%
Meßkassette 1: Gleichlaufkassette 3150 Hz Meßkassette 21: 400 Hz Dolby-Pegel, 200 nWb/m 400 Hz - 20 dB, 10 kHz - 20 dB		Test cassette 1: Tape speed test cassette 3150 Hz Test cassette 21: 400 Hz Dolby-level 200 nWb/m 400 Hz - 20 dB, 10 kHz - 20 dB			

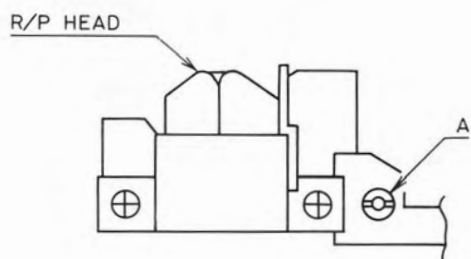
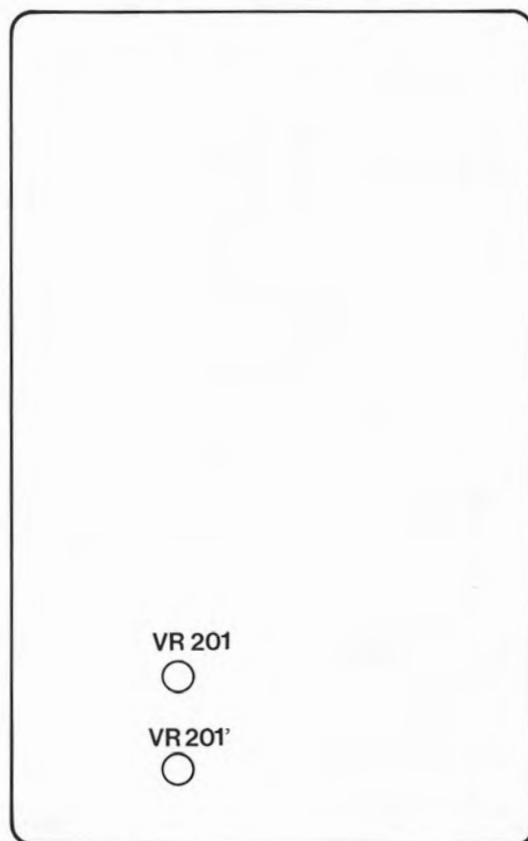


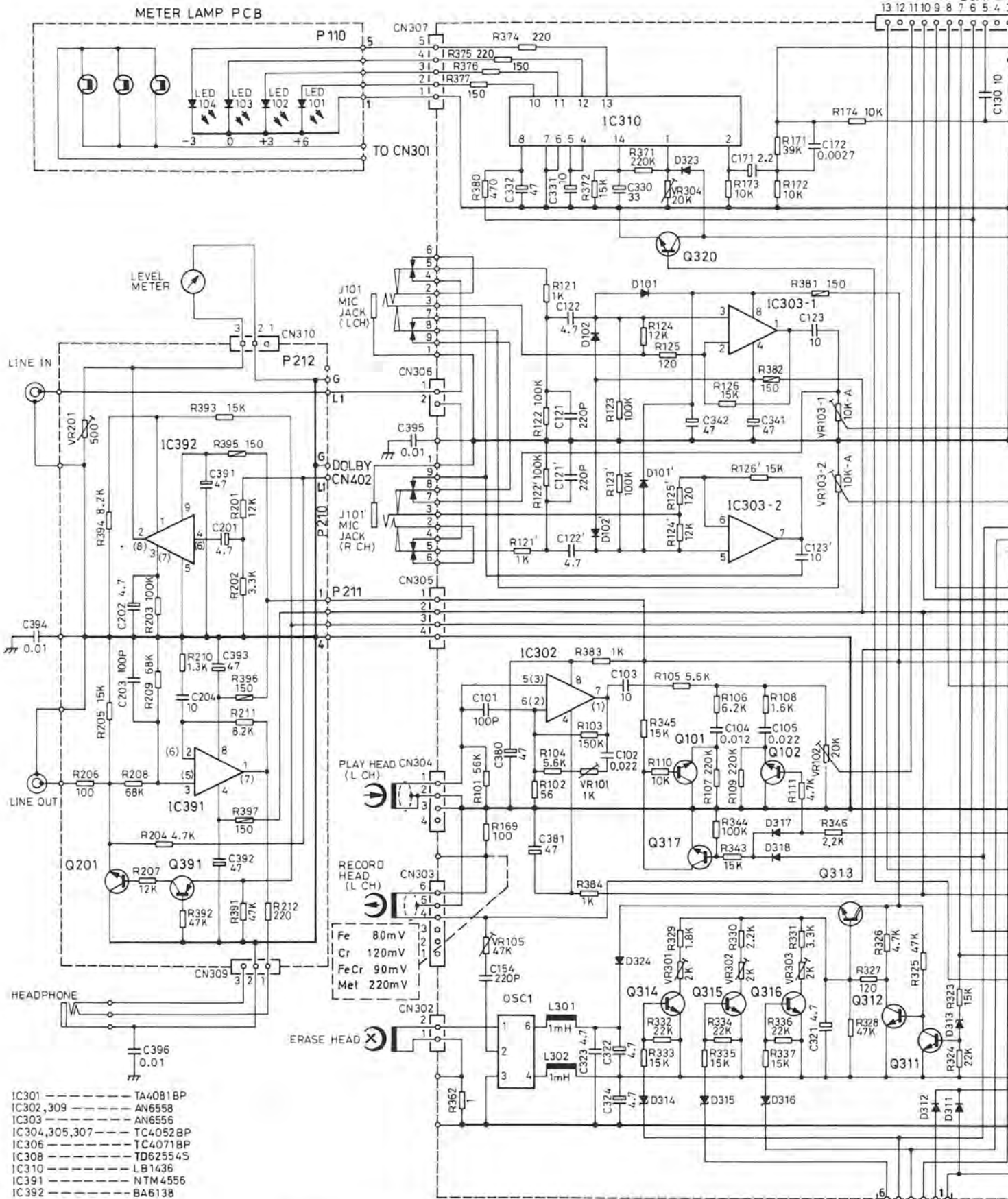


Controllplatte/Control board/Plaque de controle



Anschlußplatte/Connection plate/Plaque de branchement



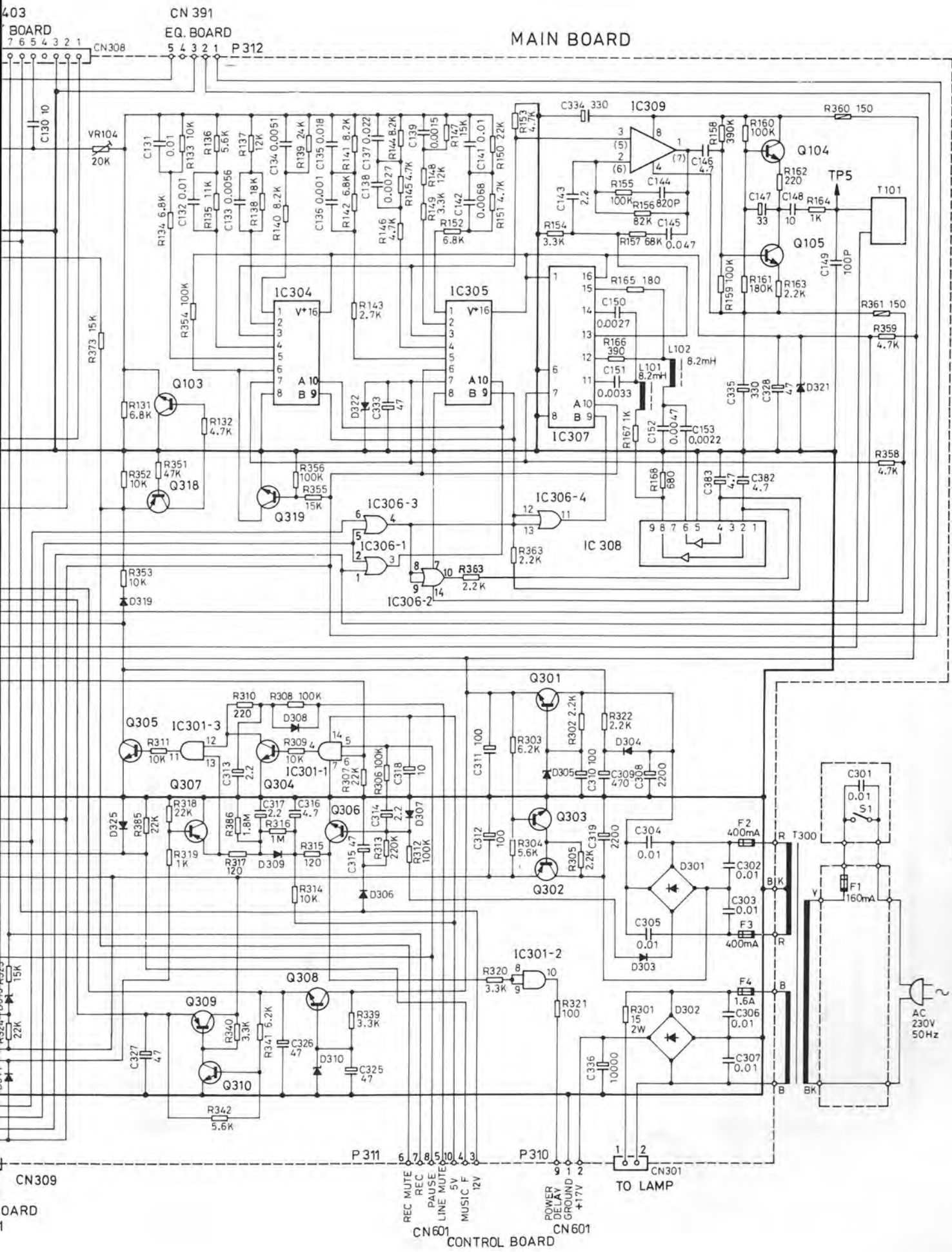


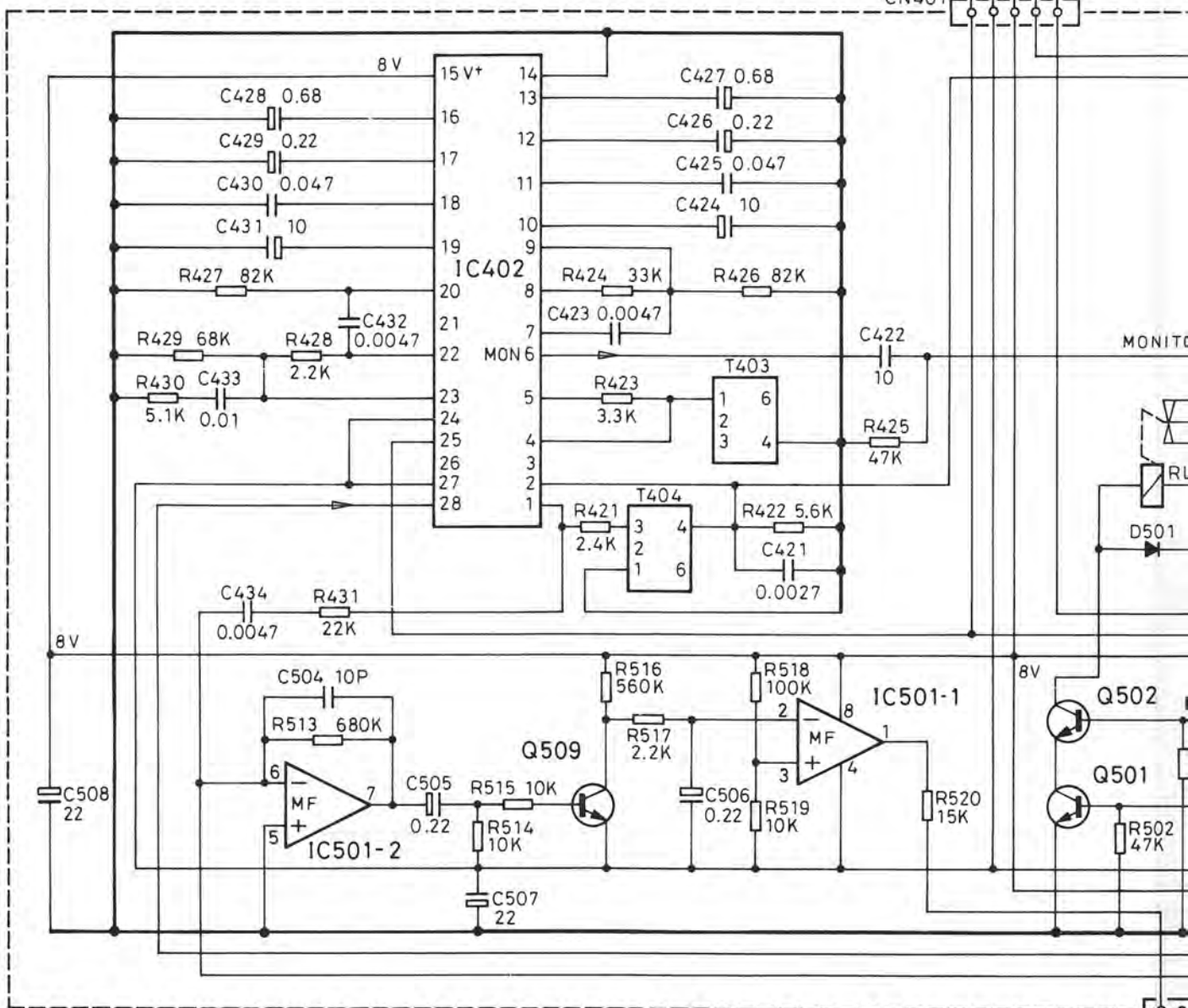
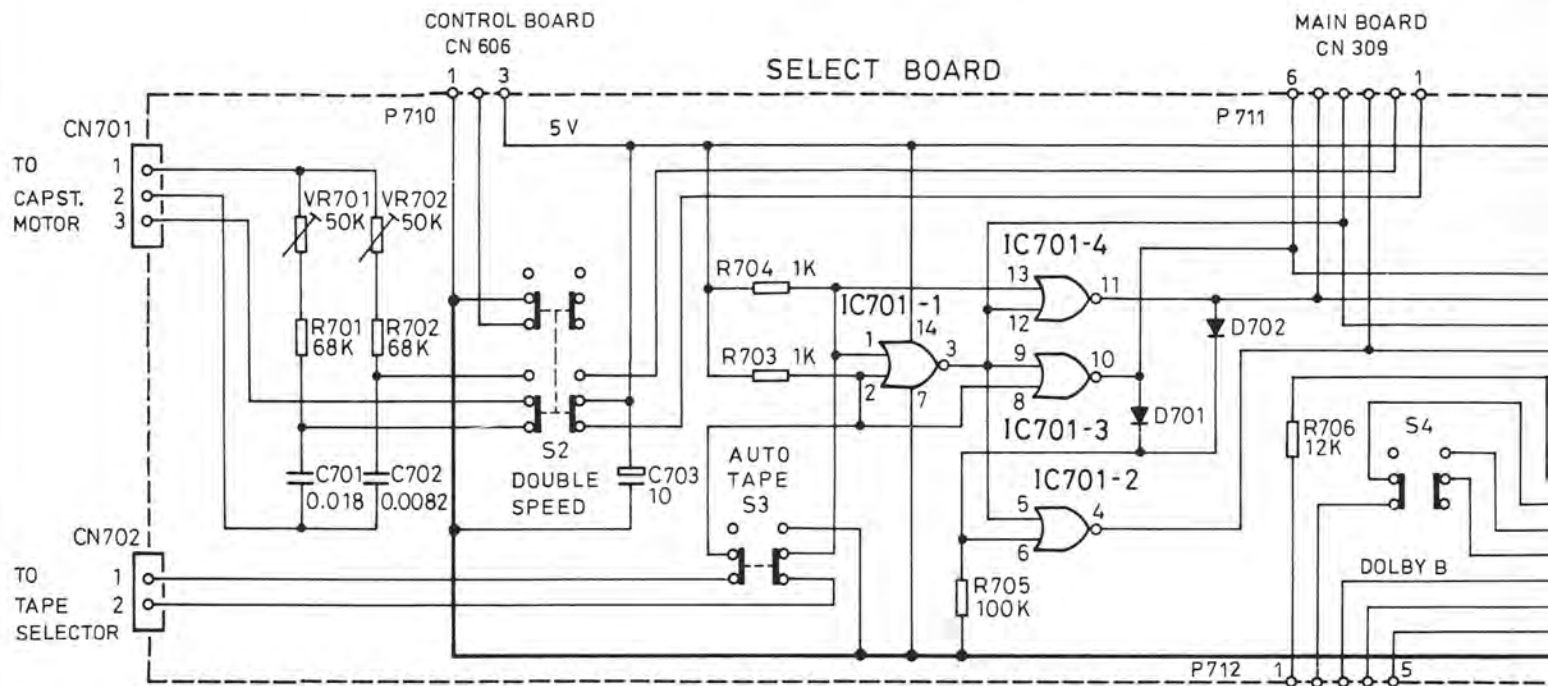
- IC301 ----- TA4081BP
- IC302, 309 ----- AN6558
- IC303 ----- AN6556
- IC304, 305, 307 ----- TC4052BP
- IC306 ----- TC4071BP
- IC308 ----- TD62554S
- IC310 ----- LB1436
- IC391 ----- NTM4556
- IC392 ----- BA6138

- Q101, 102, 104, 105, 101, 102, 104, 105, 304, 305, 312, 314 ~ 317, 319 ----- 2SC1685-S
- Q103, 103', 201 ----- 2SD1302-T
- Q301, 308 ----- 2SD1406-GR
- Q302, Q309 ----- 2SB1015-GR
- Q303, 307, 310, 318, 391 ----- 2SA564-S
- Q306, 311 ----- 2SC3112-B
- Q313 ----- 2SD1198-R
- Q320 ----- UN4211

- D 101, 102, 101', 102', 303, 306, 308, 309, 311, 312, 317 ~ 319, 323, 324 ----- MA150
- D 301 ----- 2W02
- D 302 ----- W02
- D304 ----- SR1K-2
- D305 ----- HZ12C-1L
- D307, 325 ----- OA90-AM
- D310 ----- HZ9C-1L
- D313 ~ 316 ----- HZ15-1
- D321, 322 ----- HZ6B-3

FeCr
FeCr
FeCr
Mn
4 7 6
5 5
CN309
SELECT BOARD
P 711

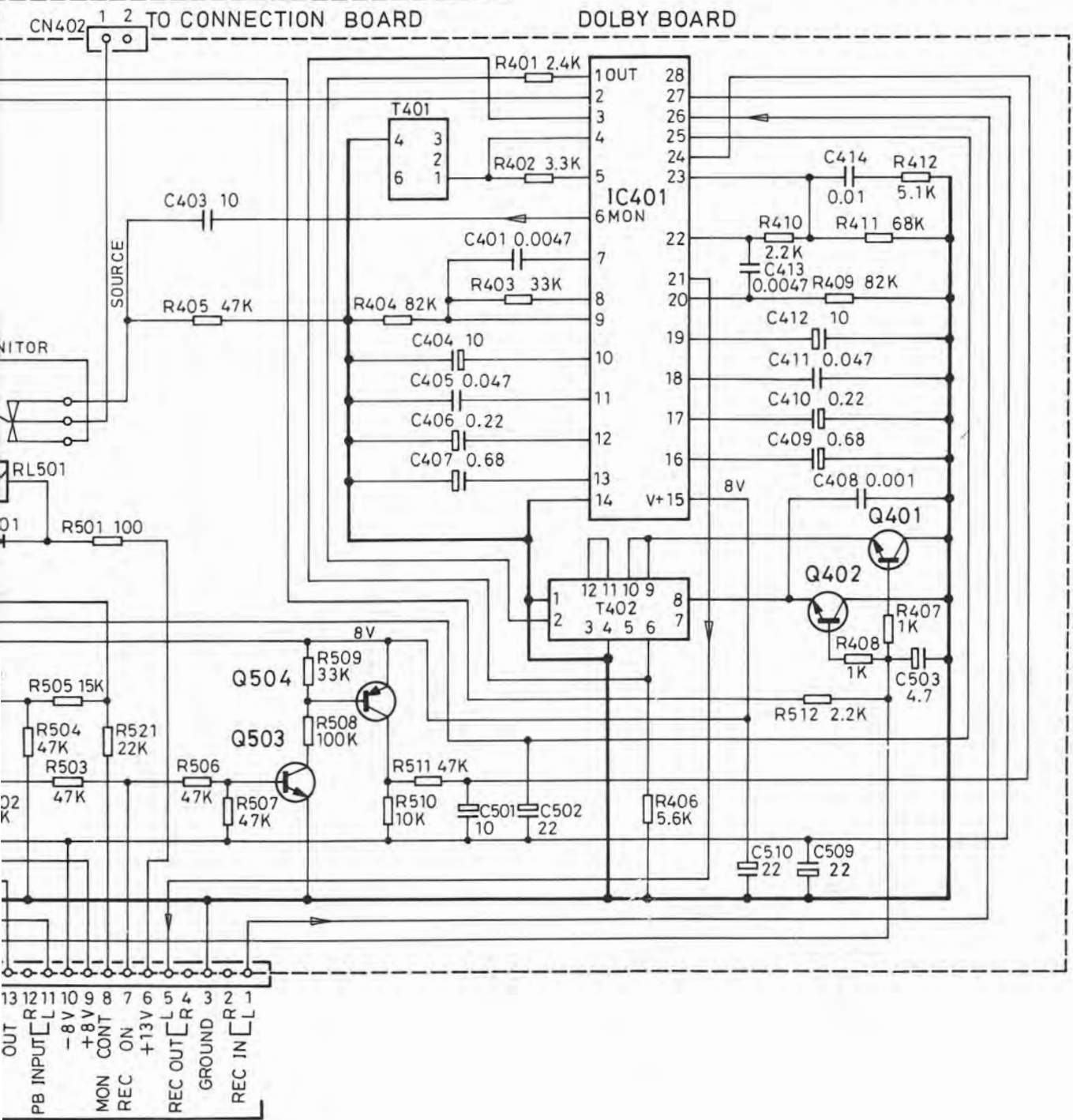
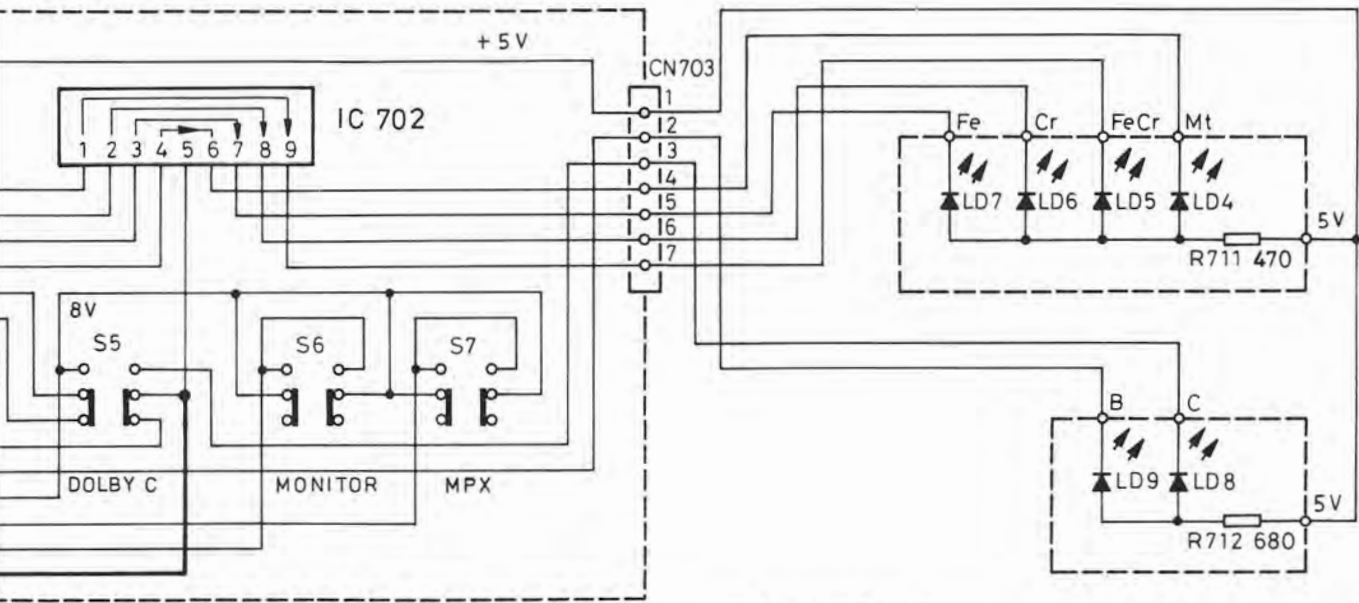


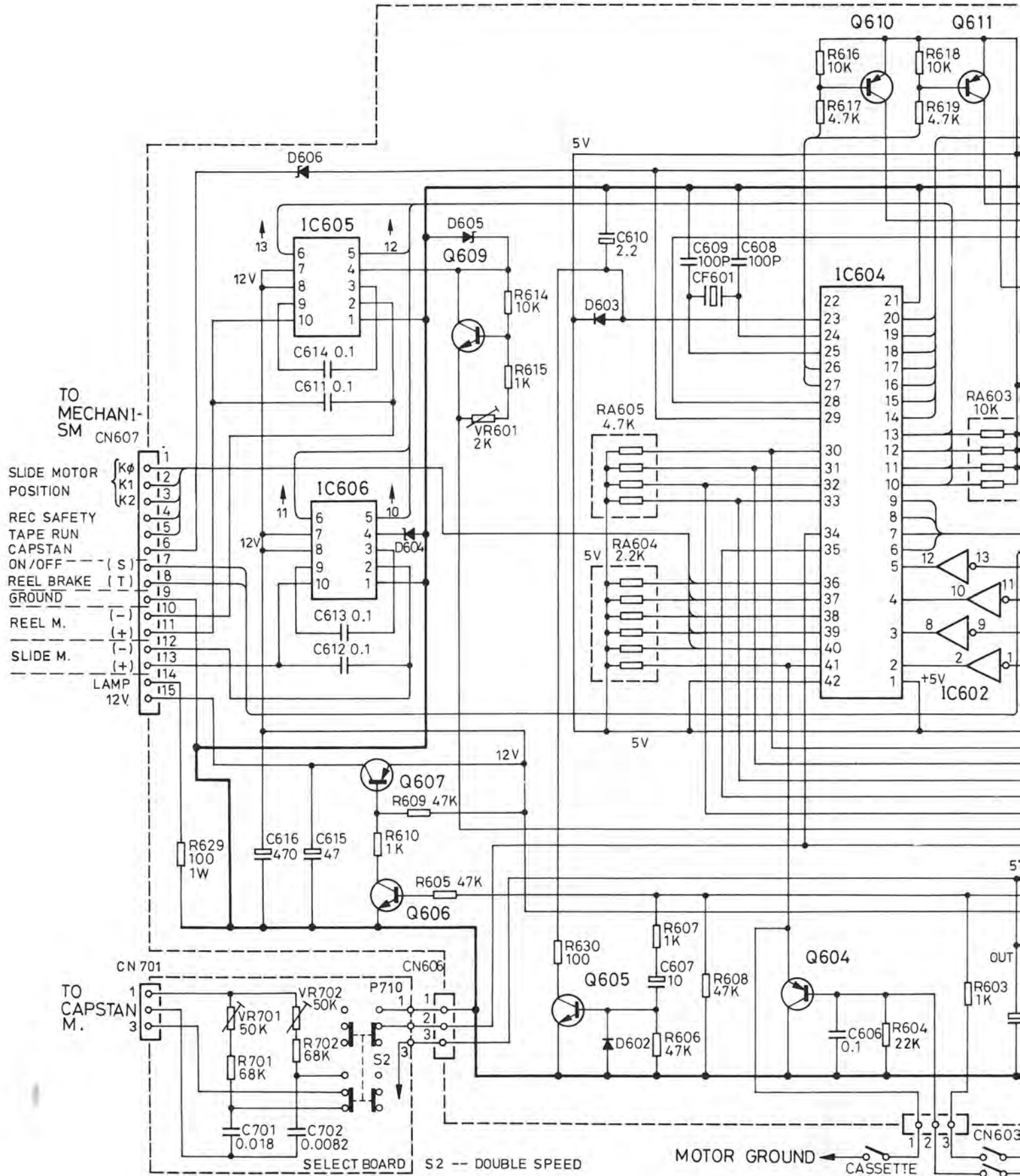


- IC401,402 ---TEA0665
- IC501 ---AN6556
- IC701 ---TC4001BP
- IC702 ---TD62554S
- Q401,402,502,
509 ---2SC1685-S

- Q501,503 ---2SC3112-B
- Q504 ---2SA564-S
- D501,701,702 ---MA150
- LD4~7 ---GL-9NG24
- LD8,9 ---GL-9HY24

- S2 --- DOUBLE SPEED SWITCH(4.76cm/sec POSITION)
- S3 --- AUTO TAPE SWITCH(AUTO POSITION)
- S4 --- DOLBY NR B SWITCH(OFF POSITION)
- S5 --- DOLBY NR C SWITCH(OFF POSITION)
- S6 --- MONITOR SWITCH(OFF POSITION)
- S7 --- MPX FILTOR SWITCH(OFF POSITION)





IC601 ---- M54560P
 IC602 ---- TC4049UBP
 IC603 ---- TD62104P
 IC604 ---- TMP4321
 IC605 ---- BA6109
 IC606 ---- BA6209
 IC607 ---- AN7805

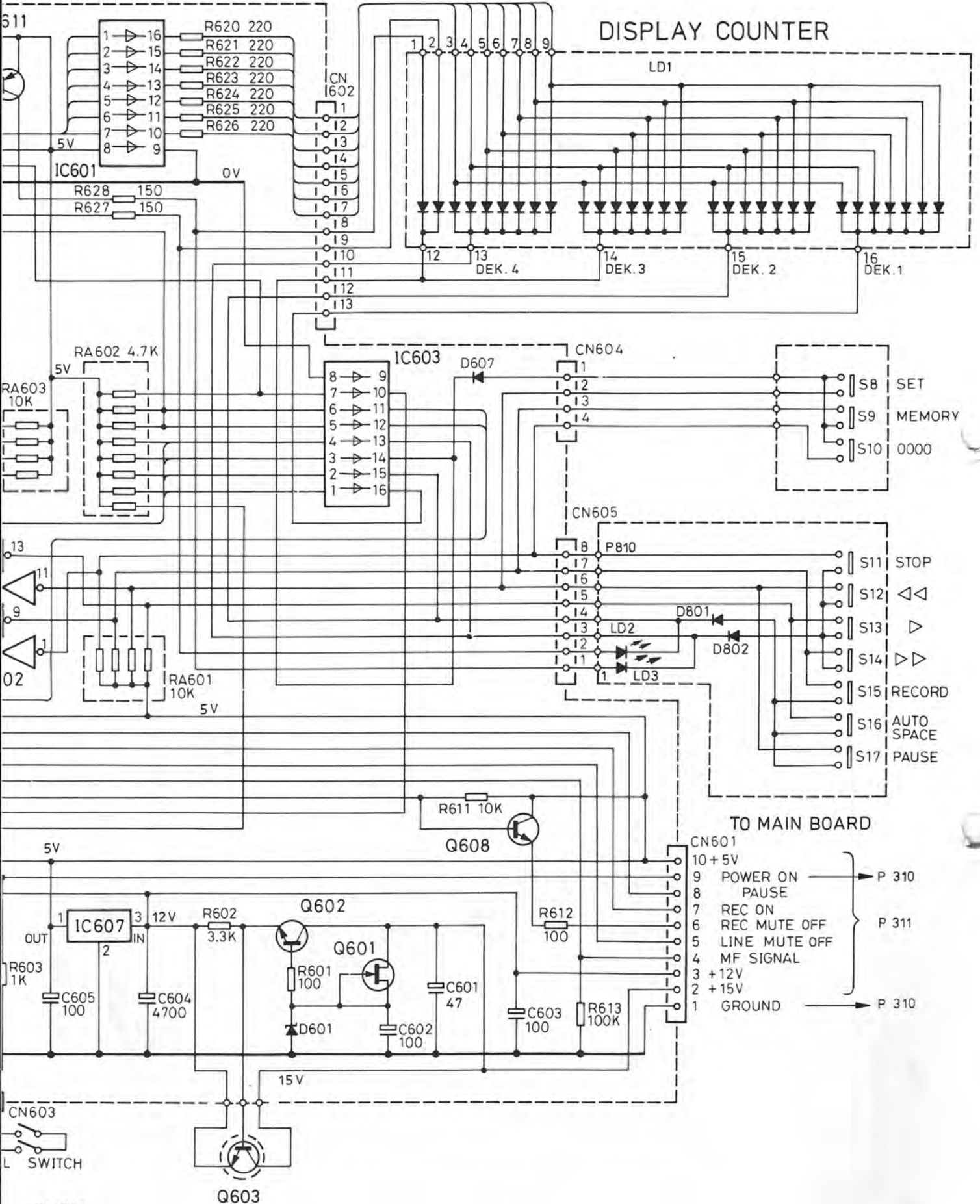
Q601 ---- 2SK246-Y1
 Q602 ---- 2SC1685-Q
 Q603 ---- 2SC1406-O
 Q604,610,611--2SA564-S
 Q605,606---- 2SC3112-B
 Q607 ---- 2SB1015-GR
 Q608,609 -- 2SC1685-S

D601 ---- HZ12-C1
 D602 603,607,
 801,802 -- MA150
 D604 ---- HZ9C-1
 D605 ---- HZ7B-1
 D606 ---- HZ3B-2

LD 1 ---- SL
 LD 2 ---- GL
 LD 3 ---- GL

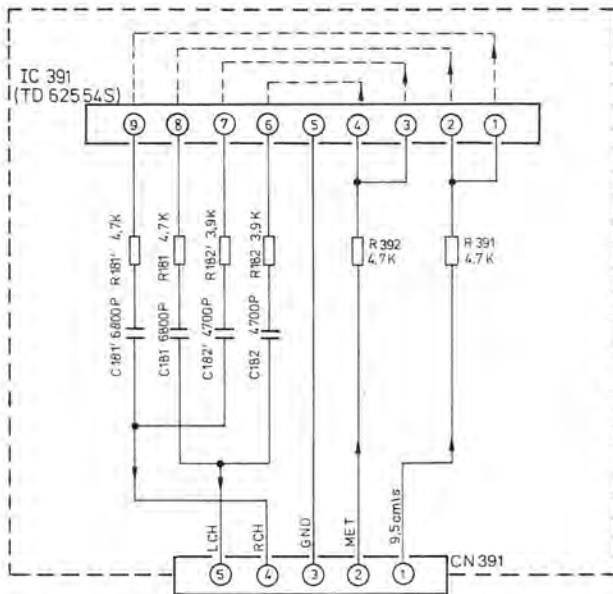
CONTROL BOARD

DISPLAY COUNTER



- SL1012
- GL-9NG24
- GL-9PR24

EQUALIZER BOARD



P 312
TO MAIN BOARD

Legende IC 304, IC 305

IC 304 activ: Low to Pin 6 (INH) \triangleq 9,5 cm/s
IC 305 activ: Low to Pin 6 (INH) \triangleq 4,75 cm/s

Pin	B 9	A 10	Y 3
Fe	H	L	2
Cr	H	H	4
FeCr	L	L	1
Met	L	H	5

Legende IC 307

	Pin	B 9	A 10	X 13
4,75 cm/s	Fe	H	L	15
	Cr	H	L	15
	FeCr	L	L	12
	Met	L	L	12
9,5 cm/s	Fe	H	H	11
	Cr	H	H	11
	FeCr	L	H	14
	Met	L	H	14

Legende IC 308

Pin	4	2
Fe	H	H
Cr	H	H
FeCr	L	L
Met	L	L



2SA 564
2SC 1685
2SC 3112
2SD 1302



2SK 246



UN 4211



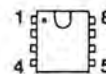
2SD 1198



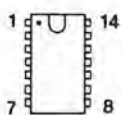
2SB 1015
2SD 1405
2SD 1406



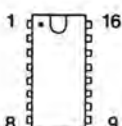
AN 7805



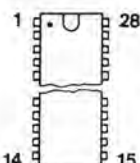
AN 6556
AN 6558
NTM 4556



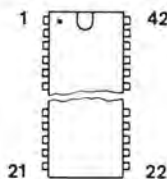
TC 4001
TC 4071
TC 4081
TC 1436



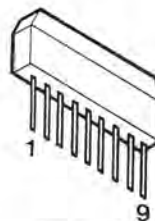
TC 4052
TC 4069
TD 62104
LB 1436



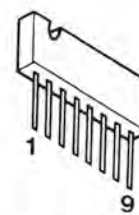
TEA 0665



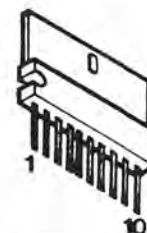
TMP 4321



TD 62554



5A 5138



BA 6109
BA 6209

Verbindungen/Connections

Grundplatte/Main Board

CN 301 → Lamp VU-Meter
CN 302 → Erese, Head
CN 303 → Record Head
CN 304 → Play Head
CN 305 → P 211 Connection Board
CN 306 → P 212 Connection Board
CN 307 → P 110 Peak Level Board
CN 308 → CN 403 Dolby Board
CN 309 → P 711 Selection Board
P 310 → CN 601 Control Board
P 311 → CN 601 Control Board
P 312 → CN 391 Equalizer Board

Controllplatte/Control Board

CN 601 → P 310, P 311 Main Board
CN 602 → Counter Board
CN 603 → DLL, Cassette Switch
CN 604 → Memory Switch
CN 605 → P 810 Touch Switch Board
CN 606 → P 710 Selection Board
CN 607 → Laufwerk

Anschlußplatte/Connection Board

CN 309 → Headphone
CN 310 → VU-Meter
P 210 → CN 402 Dolby Board
P 211 → CN 305 Main Board
P 212 → CN 306 Main Board

Dolbyplatte/Dolby Board

CN 401 → P 712 Selection Board
CN 402 → P 210 Connection Board
CN 403 → CN 308 Main Board

Selectionplatte/Selection Board

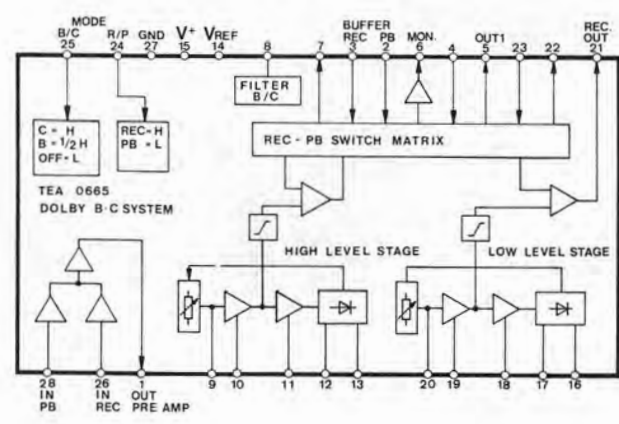
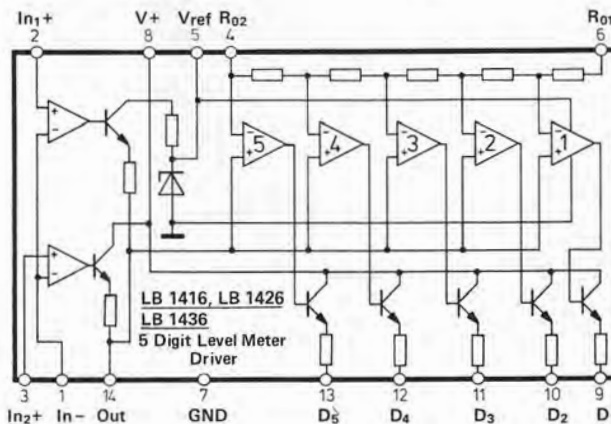
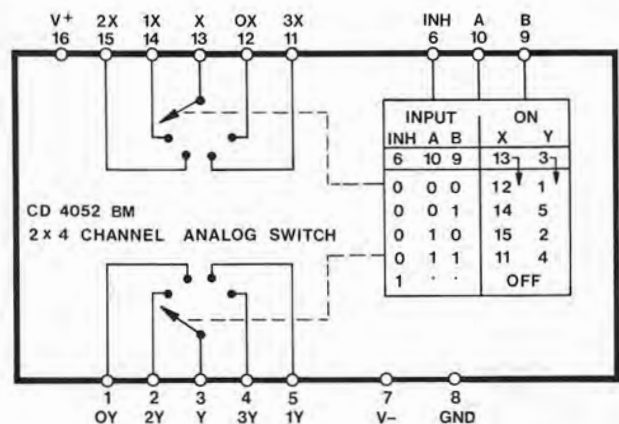
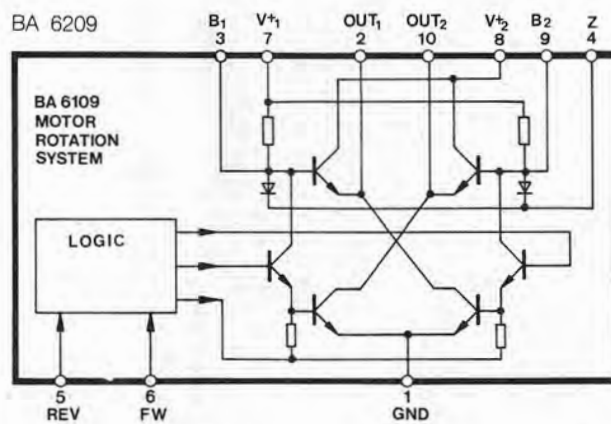
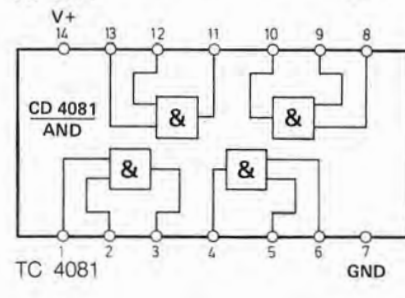
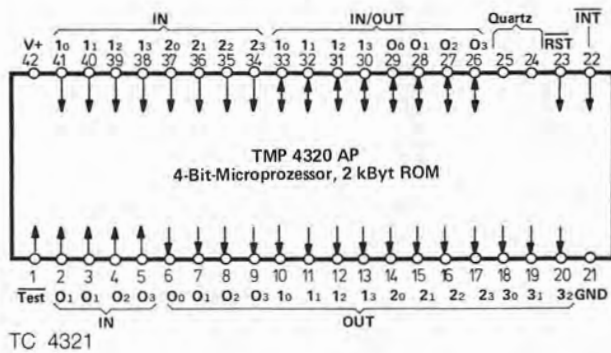
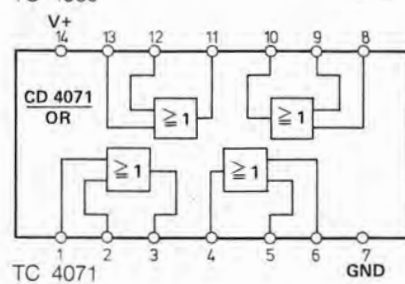
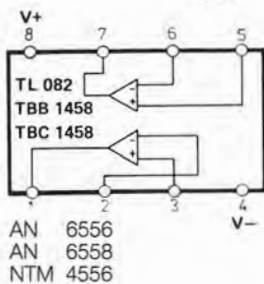
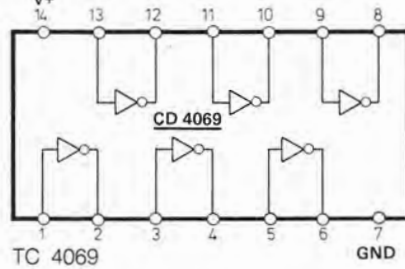
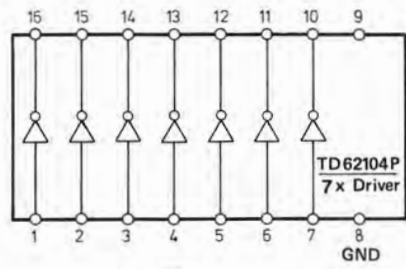
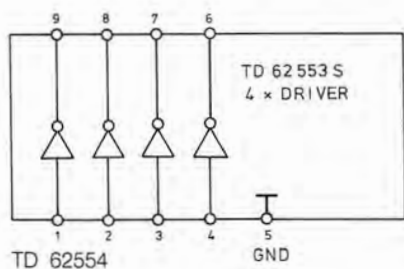
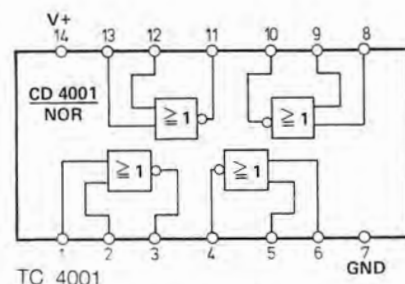
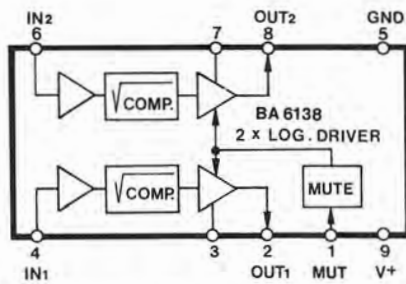
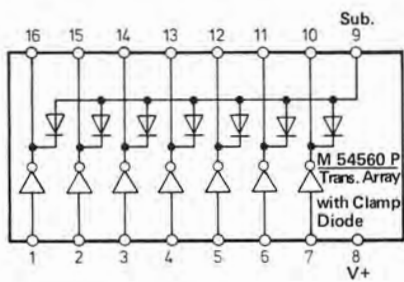
CN 701 → Capstan Motor
CN 702 → Tape Selector (Laufwerk)
CN 703 → Autotape Indicator
P 710 → CN 606 Control Board
P 711 → CN 309 Main Board
P 712 → CN 401 Dolby Board

Tipptastenplatte/Touch Switch Board

P 810 → CN 605 Control Board

Entzerrerplatte/Equalizer Board

CN 391 → P 312 Main Board



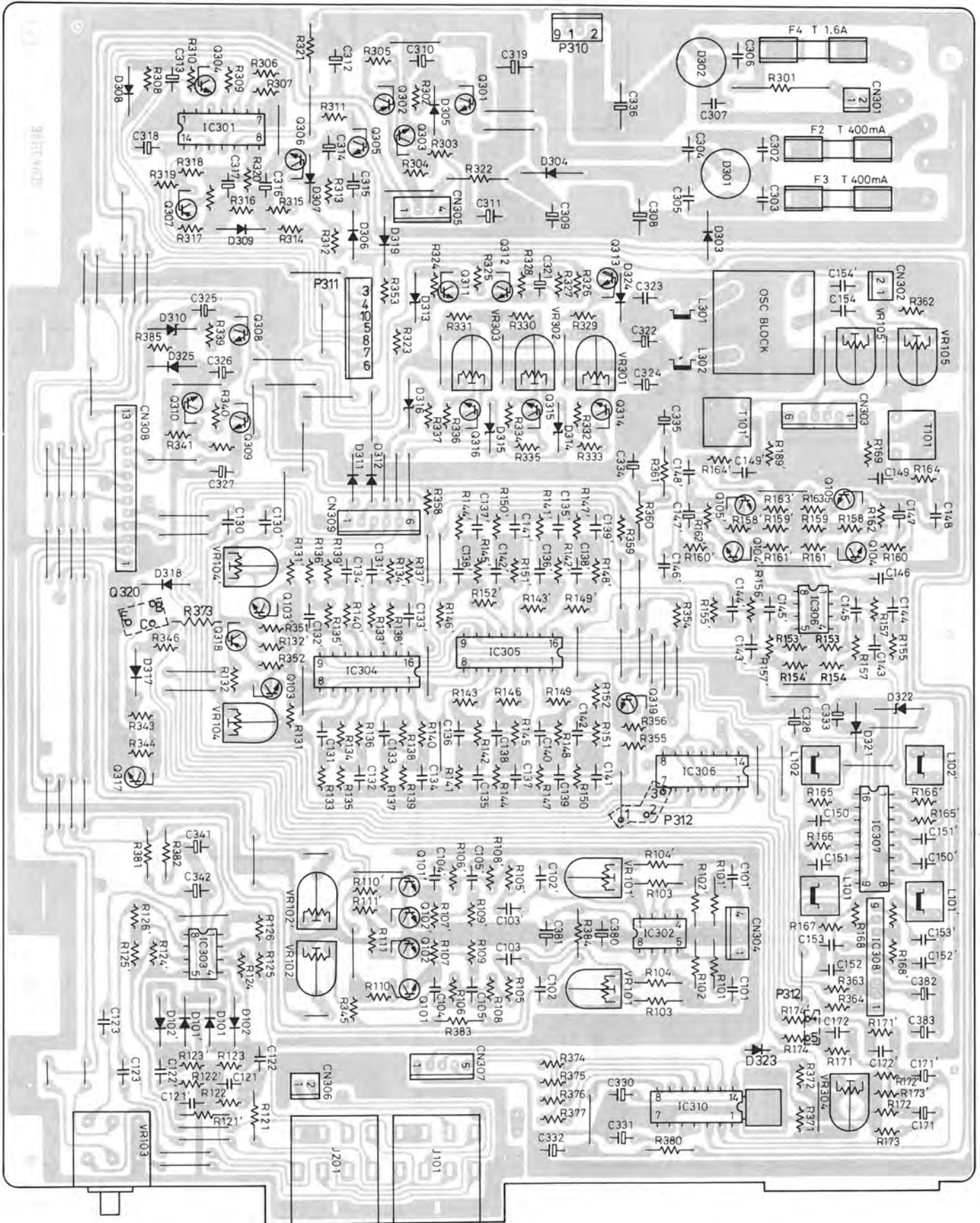
Grundplatte/Main Board L

- CN 301 → Lamp VU-Meter
- CN 302 → Ereset, Head
- CN 303 → Record Head
- CN 304 → Play Head
- CN 305 → P 211 Connection Board
- CN 306 → P 212 Connection Board
- CN 307 → P 110 Peak Level Board
- CN 308 → CN 403 Dolby Board
- CN 309 → P 711 Selection Board
- P 310 → CN 601 Control Board
- P 311 → CN 601 Control Board
- P 312 → CN 391 Equalizer Board

L = Leiterseite/Wiring side/Côte de conducteur

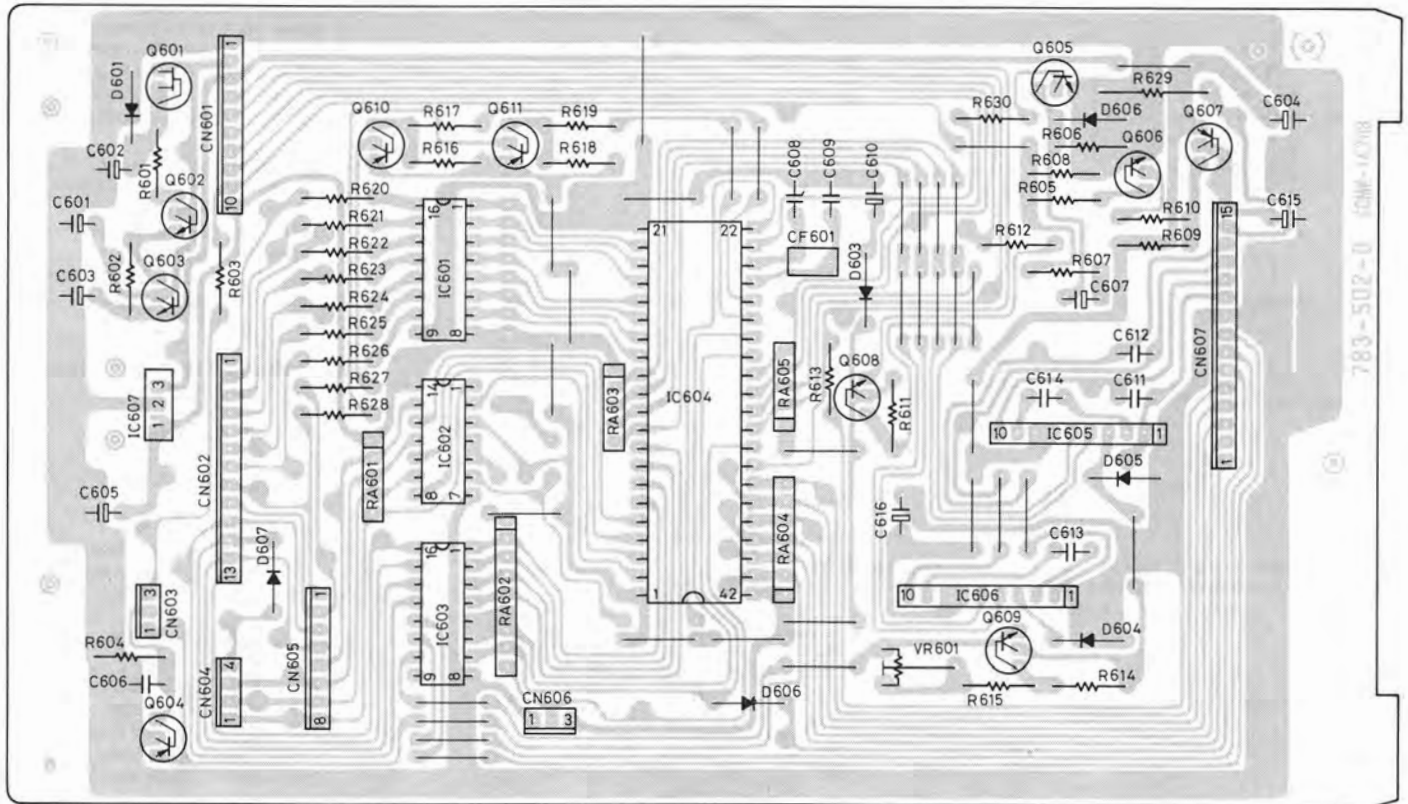
Contro

- CN 60
- CN 60
- CN 60
- CN 60
- CN 60
- CN 60
- CN 60



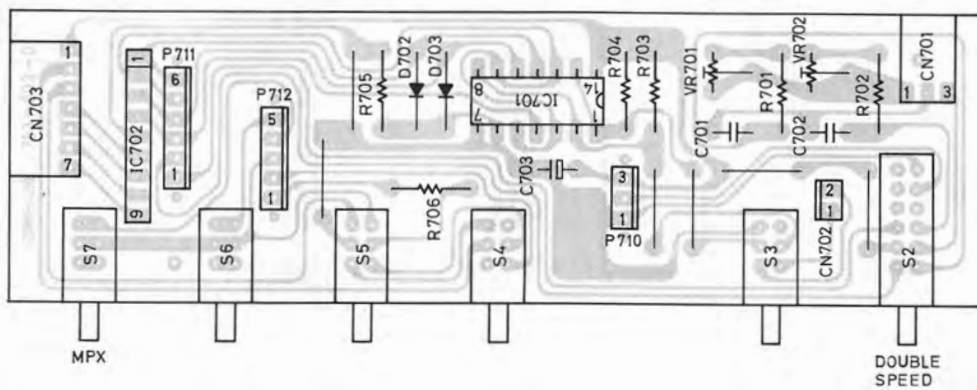
Controllplatte/Control Board L

- CN 601 → P 310, P 311 Main Board
- CN 602 → Counter Board
- CN 603 → DLL, Cassette Switch
- CN 604 → Memory Switch
- CN 605 → P 810 Touch Switch Board
- CN 606 → P 710 Selection Board
- CN 607 → Laufwerk



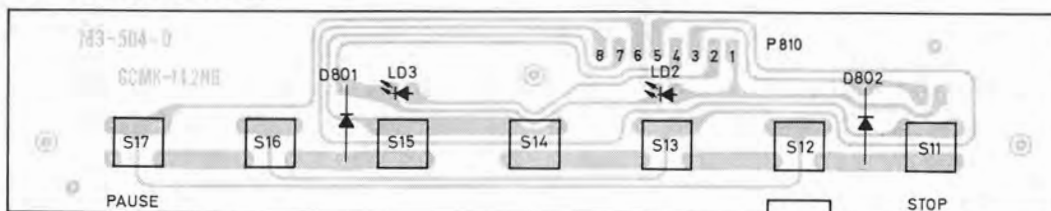
Selectionplatte/Selection Board L

- CN 701 → Capstan Motor
- CN 702 → Tape Selector (Laufwerk)
- CN 703 → Autotape Indicator
- P 710 → CN 606 Control Board
- P 711 → CN 309 Main Board
- P 712 → CN 401 Dolby Board



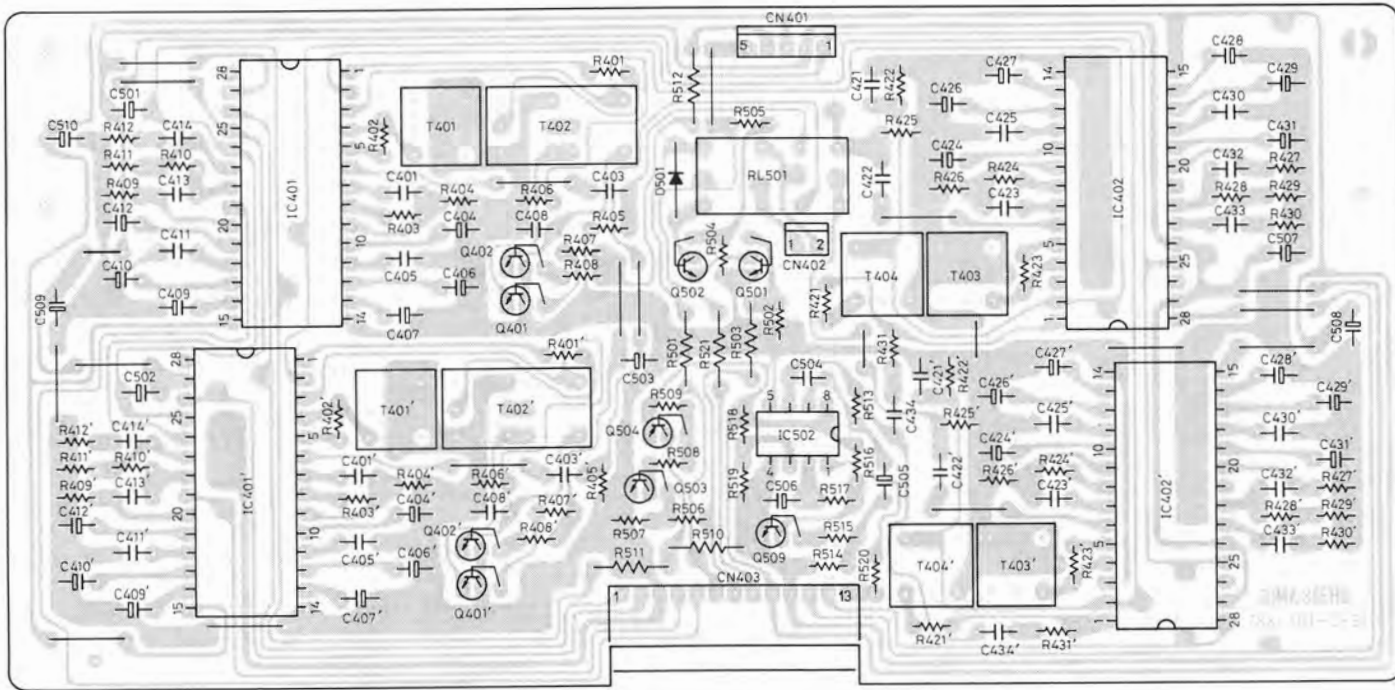
Tipptastenplatte/Touch Switch Board L

- P 810 → CN 605 Control Board



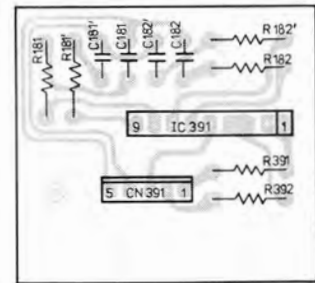
Dolbyplatte/Dolby Board L

CN 401 → P 712 Selection Board
 CN 402 → P 210 Connection Board
 CN 403 → CN 308 Main Board



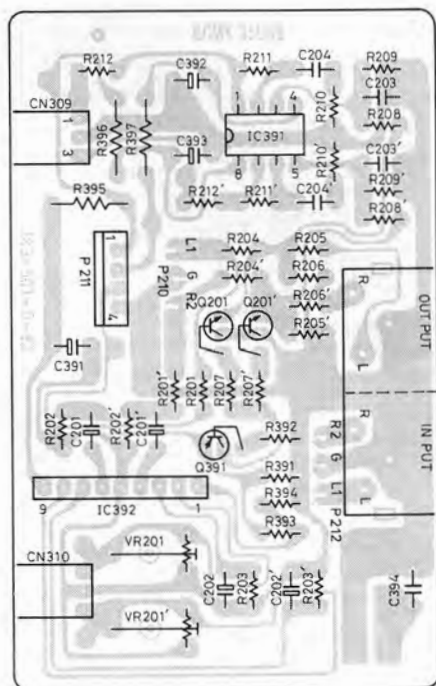
Entzerrerplatte/Equalizer Board L

CN 391 → P 312 Main Board

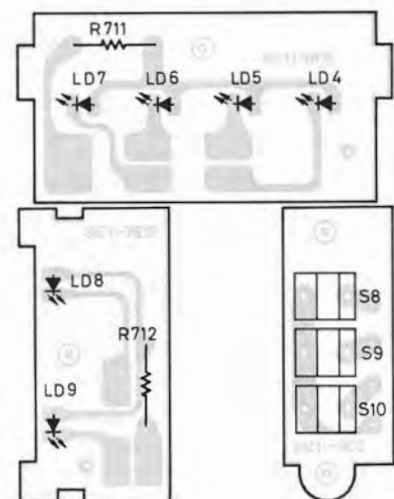


Anschlußplatte/Connection Board L

CN 309 → Headphone
 CN 310 → VU-Meter
 P 210 → CN 402 Dolby Board
 P 211 → CN 305 Main Board
 P 212 → CN 306 Main Board



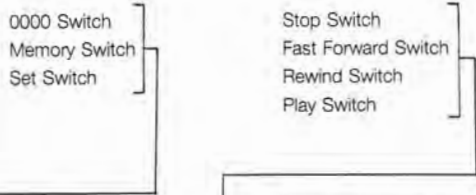
LED-Platte/LED board L



Prozessor TMP 4321 (IC 604) Pin Connection · Pinbelegung

Pin Signal

1 ←	⌋	+ 5 Volt
2 ←	⌋	
3 ←	⌋	Record Switch
4 ←	⌋	Pause Switch
5 ←	⌋	Auto Space Switch
6 →	⌋	Pulse Dekade 1
7 →	⌋	Pulse Dekade 2
8 →	⌋	Pulse Dekade 3
9 →	⌋	Pulse Dekade 4
10 →	⌋	Slide Motor Forward ON
11 →	⌋	Slide Motor Reverse ON
12 →	⌋	Reel Motor Forward ON
13 →	⌋	Reel Motor Reverse ON
14 →	⌋	Pulse Segment a
15 →	⌋	Pulse Segment b
16 →	⌋	Pulse Segment c
17 →	⌋	Pulse Segment d
18 →	⌋	Pulse Segment e
19 →	⌋	Pulse Segment f
20 →	⌋	Pulse Segment g
21		GND
22		+ 5 Volt
23 ←	⌋	Reset
24		} Quartz
25		
26 →	⌋	Pulse LED Record
27 →	⌋	Pulse LED Play
28 →	⌋	Right Reel Brake ON (rechte Bandwickelbremse)
29 →	⌋	Capstan Motor ON, Reel Motor Tape Tension Level ON (Bandzug-Pegel)
30 →	⌋	Pause, Muting, OFF
31 →	⌋	Record ON, Oscill. ON
32 →	⌋	Record Amp Muting OFF
33 →	⌋	Line Muting OFF
34 ←	⌋	Double Speed (9.5 cm/s) ON
35 ←	⌋	Signal Space (Musiklücke)
36 ←	⌋	Tape Run Sensor
37 ←	⌋	Record Safety Switch
38 ←		} Slide Motor Position see Logic Matrix
39 ←		
40 ←		
41 ←	⌋	DLL ON, Cassette Switch
42		U _{BAT} + 5 Volt



Remarks · Bemerkungen

FF, RW
 Play, Record SB, Record, Auto Space, Pause
 Play, Auto Space, FF, MF ▶▶
 RW, MF ◀◀

Power ON

Record SB, Record | Set
 Play, Record SB | Memory
 Play →, Record →, FF →, RW →, Stop
 Play, Record, Record SB, Pause

Record SB, Pause
 Record SB, Record
 Record
 Play, Record SB, Record
 Double Speed
 MF ▶▶, ◀◀
 FF, RW, Play, MF ▶▶, ◀◀
 Musicassette

} Position Tonkopfschlitten

Without a cassette, Kasette entfernt

Logic Matrix

Pin	38	39	40	in function
	L	L	H	Pause, Rec. SB, MF ▶▶, ◀◀ Tonkopfschlitten in Pos. Pause
	L	H	L	Play, Record, Auto Space Tonkopfschlitten in Pos. Play
	H	H	L	FF, RW } Tonkopfschlitten
	H	L	L	Stop } in Pos. Stop

Signification · Bezeichnung:

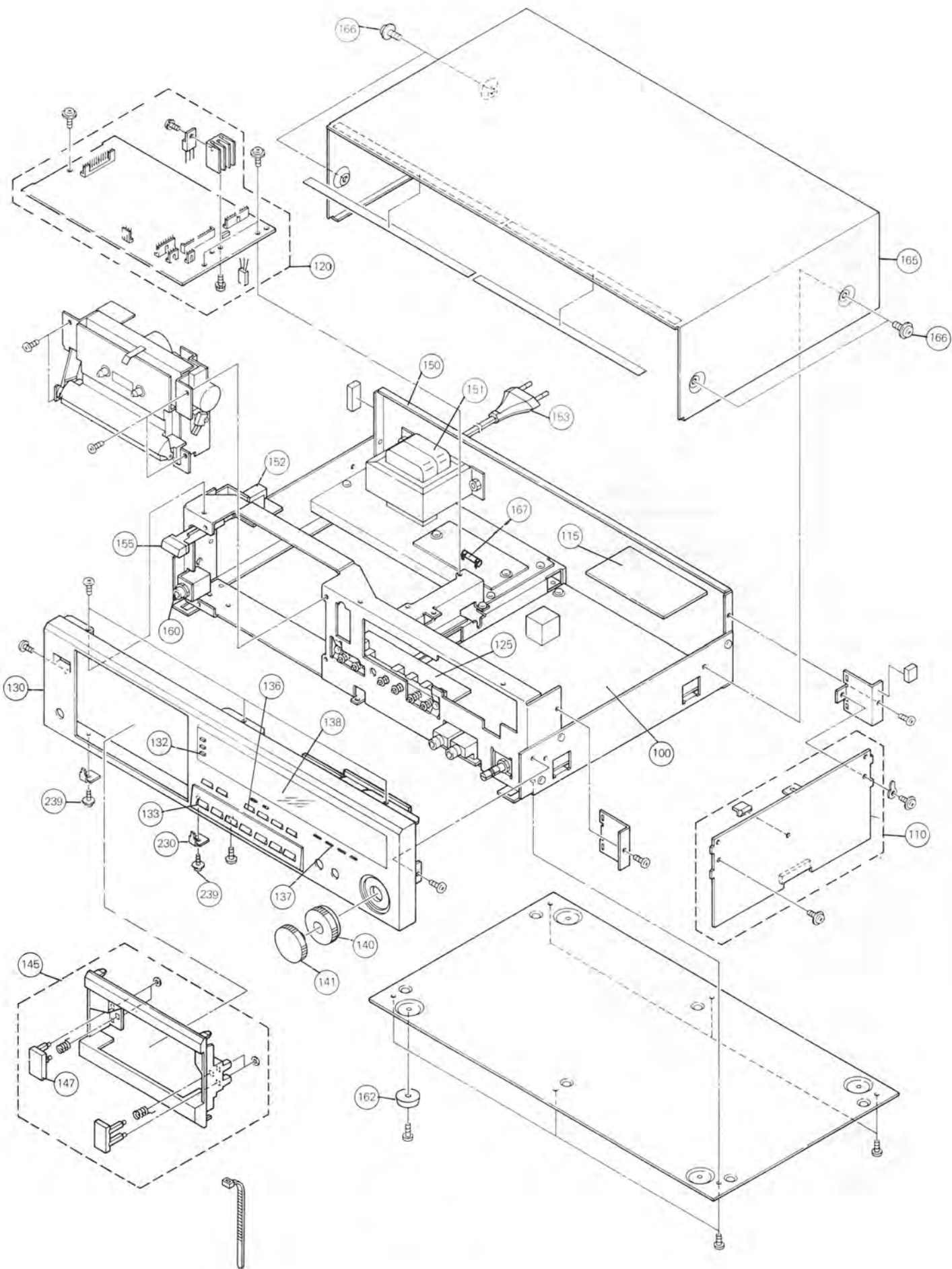
2 ← Input
 7 → Output
 ⌋ Signal HIGH active
 ⌋ Signal LOW active
 Record SB = Record Stand By
 FF = Fast Forward
 RW = Rewind
 MF = Music Finder
 Slide Motor = Motor für Laufwerkfunktionen

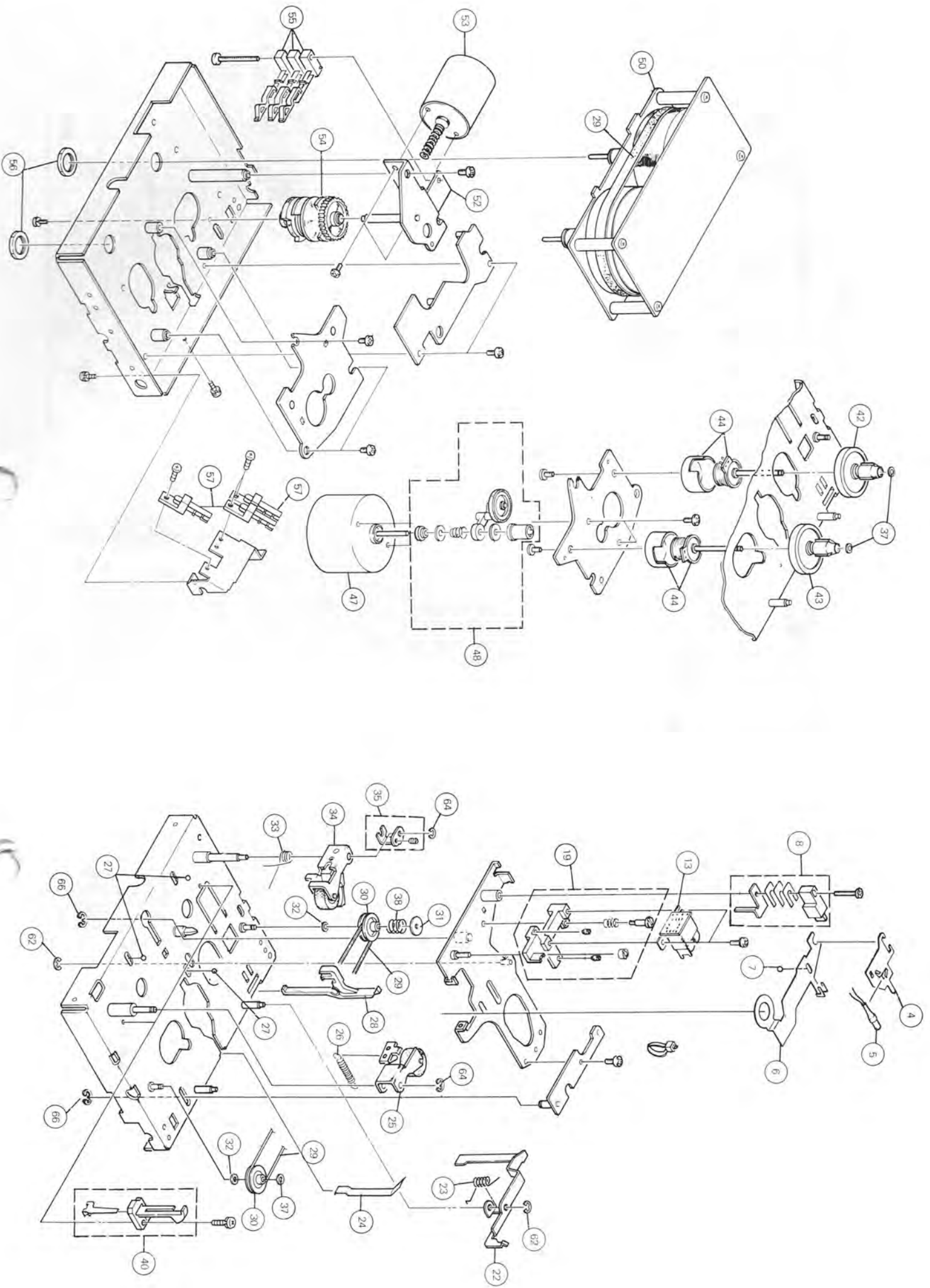
Connector Main Board

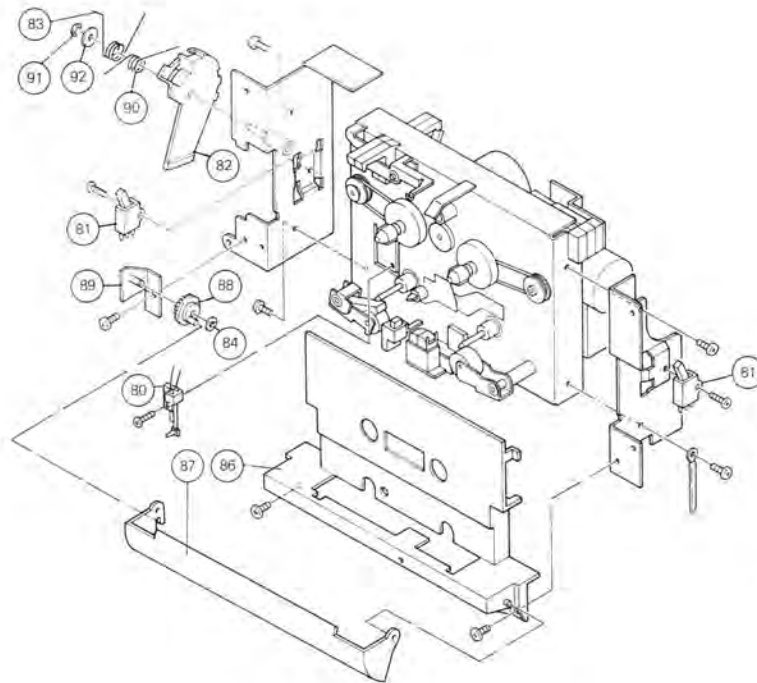
CN 309	
Pin	Signal
1 ←	⌋ 9,5 cm/s
2 ←	⌋ 4,75 cm/s
3 ←	⌋ Met Tape
4 ←	⌋ Cr Tape
5 ←	⌋ Fe Tape
6 ←	⌋ FeCr Tape

P 311

Pin	Signal
3 ←	+12 V
4 →	⌋ Signal Space (Musiklücke)
10 ←	+5 V
5 ←	⌋ Line Mute OFF
8 ←	⌋ Pause
7 ←	⌋ Record ON
6 ←	⌋ Record Mute OFF







Ersatzteile · Replacement parts · Pièces détachée · C 846

Pos.	Art.-Nr.	Stck	Bezeichnung
4	278 456	1	Lampenhalter
5	278 457	1	Lampe
6	278 458	1	Stütze
7	278 459	1	Kugel
8	278 518	1	Löschkopf
13	278 519	1	AW-Kopf
19	278 520	1	Kopfträger kpl.
22	278 469	1	Schalthebel
23	278 470	1	Schenkelfeder
24	278 471	1	Cassettenhalter
25	278 472	1	Andruckhebel kpl. R
26	278 473	1	Zugfeder
27	209 353	3	Kugel 2,0
28	278 474	2	Recordhebel
29	278 665	1	Riemensatz
30	278 476	2	Rolle
31	278 477	1	Scheibe 1,8/8/0,5
32	278 478	2	Scheibe 2,1/4/0,5
33	278 479	1	Schenkelfeder
34	278 480	1	Andruckhebel kpl. L
35	278 521	1	Justageplatte kpl.
37	278 483	3	Scheibe 1,8/3,2/0,5
38	278 484	1	Druckfeder
40	278 522	2	Cassettenhalter
42	278 487	1	Mitnehmer L
43	278 488	1	Mitnehmer R
44	278 523	2	Mitnehmerachse kpl.
47	278 188	1	Motor (Reel)
48	278 524	1	Antriebsrolle kpl.
50	278 187	1	Motor (Capstan)
52	278 498	1	Getriebesupport
53	278 189	1	Motor (Getriebe)
54	278 499	1	Getriebe
55	278 500	3	Schalter
56	278 501	2	Mutter M9
57	278 502	3	Schalter
62	278 503	2	Sicherungsscheibe 2,5
64	278 504	2	Sicherungsscheibe 2,0
66	278 505	2	Sicherungsscheibe 3,0
80	278 234	1	Schalter
81	278 071	2	Schalter
82	270 170	1	Dämpfungshebel
83	271 053	1	Schenkelfeder
84	278 235	1	Stopper
86	278 236	1	Abdeckung SM
86	278 580	1	Abdeckung AM
87	278 237	1	Kopfschutz
88	278 238	1	Dämpfungsrad
89	278 239	1	Getriebelager
90	268 263	1	Spiralfeder B
91	278 503	2	Sicherungsscheibe 2,5
92	269 484	1	Scheibe 3,7/9/0,5

Pos.	Art.-Nr.	Stck	Bezeichnung
100	278 179	1	Grundplatte
D 101	264 086	15	Diode MA 150
D 102	264 086	15	Diode MA 150
D 301	265 534	1	Diode WO 2
D 302	272 681	1	Diode 2 W 02
D 303	264 086	15	Diode MA 150
D 304	272 334	1	Diode SR 1 K 2 LF
D 305	278 507	1	Diode HZ 12 C 1
D 306	264 086	15	Diode MA 150
D 307	245 343	1	Diode DA 90
D 308	264 086	15	Diode MA 150
D 309	264 086	15	Diode MA 150
D 310	278 210	1	Diode HZ 9 C 1 L
D 311	264 086	15	Diode MA 150
D 312	264 086	15	Diode MA 150
D 313	270 137	4	Diode HZ 15-1
bis			
D 316	270 137	4	Diode HZ 15-1
D 317	264 086	15	Diode MA 150
D 318	264 086	15	Diode MA 150
D 319	264 086	15	Diode MA 150
D 321	268 327	2	Diode HZ 6 B 3
D 322	268 327	2	Diode HZ 6 B 3
D 323	264 086	15	Diode MA 150
D 324	264 086	15	Diode MA 150
D 325	245 343	2	Diode OA 90
F 2	237 146	1	Sicherung T 0,4 A
F 3	237 146	1	Sicherung T 0,4 A
F 4	237 710	1	Sicherung T 1,6 A
J 101	272 949	2	Buchse (MIC)
L 101	278 196	1	Spule
L 102	278 196	4	Spule
L 301	273 777	2	Spule 1 mH
L 302	273 777	2	Spule 1 mH
Q 101	273 779	12	Transistor 2 SC 1685 S
Q 102	273 779	12	Transistor 2 SC 1685 S
Q 103	274 774	1	Transistor 2 SD 1302 T
Q 104	273 779	12	Transistor 2 SC 1685 S
Q 105	273 779	12	Transistor 2 SC 1685 S
Q 301	278 195	2	Transistor 2 SD 1406 GR
Q 302	278 193	2	Transistor 2 SB 1015 GR
Q 303	265 578	3	Transistor 2 SA 564
Q 304	273 779	12	Transistor 2 SC 1685 S
Q 305	273 779	12	Transistor 2 SC 1685 S
Q 306	278 217	2	Transistor 2 SC 3112 B
Q 307	265 578	3	Transistor 2 SA 564
Q 308	278 195	2	Transistor 2 SD 1406 GR
Q 309	278 193	2	Transistor 2 SB 1015 GR
Q 310	265 578	3	Transistor 2 SA 564
Q 311	278 217	2	Transistor 2 SC 3112 B
Q 312	273 779	12	Transistor 2 SC 1685 S

Pos.	Art.-Nr.	Stck	Bezeichnung
Q 313	278 206	1	Transistor 2 SD 1198 R
Q 314	273 779	12	Transistor 2 SC 1685 S
bis			
Q 317	273 779	12	Transistor 2 SC 1685 S
Q 318	265 578	4	Transistor 2 SA 564
Q 319	273 779	12	Transistor 2 SC 1685 S
Q 320	278 794	1	Transistor UN 4211
R 261	278 508	2	Sicherungswiderstand 150 Ω
R 360	278 508	2	Sicherungswiderstand 150 Ω
R 361	278 508	2	Sicherungswiderstand 150 Ω
T 101	278 197	1	Spule
IC 301	263 172	1	IC MC 14081
IC 302	278 207	2	IC AN 6558
IC 303	260 189	1	IC TBB 1458 B
IC 304	278 209	3	IC TC 4052 BP
IC 305	278 209	3	IC TC 4052 BP
IC 306	273 836	1	IC 4071 BP
IC 307	278 209	3	IC TC 4052 BP
IC 308	278 208	1	IC TD 62554 S
IC 309	278 207	1	IC AN 6558
IC 310	271 144	1	IC LB 1436
OC 1	278 202	1	Spule
VR 101	278 199	1	Steller 1 kΩ
VR 102	263 041	3	Steller 20 kΩ
VR 103	278 198	1	Steller 10 kΩ
VR 104	263 041	3	Steller 20 kΩ
VR 105	278 201	1	Steller 47 kΩ
VR 301	278 200	2	Steller 2 kΩ
VR 302	278 200	2	Steller 2 kΩ
VR 303	270 193	1	Steller 5 kΩ
VR 304	263 041	3	Steller 20 kΩ
110	278 497	1	Dolby-Platte kpl.
D 501	264 086	1	Diode MA 150
Q 401	273 779	3	Transistor 2 SC 1685 S
Q 402	273 779	3	Transistor 2 SC 1685 S
Q 501	278 217	2	Transistor 2 SC 3112 B
Q 502	273 779	3	Transistor 2 SC 1685 S
Q 503	278 217	1	Transistor 2 SC 3112 B
Q 504	265 578	1	Transistor 2 SA 564
Q 509	273 779	4	Transistor 2 SC 1685 S
T 401	273 776	2	Spule
T 402	278 216	1	Filter
T 403	273 776	2	Spule
T 404	278 214	1	Spule
IC 401	278 218	2	IC TEA 0665
IC 402	278 218	2	IC TEA 0665
IC 501	260 189	1	IC TBB 1458 B
RL 501	278 215	1	Relais
115	278 506	1	Anschlußplatte
116	278 327	1	Anschlußbuchsen
Q 201	274 774	1	Transistor 2 SD 1302 T
Q 391	265 578	1	Transistor 2 SA 564
R 395	278 508	3	Sicherungswiderstand 150 Ω
R 396	278 508	2	Sicherungswiderstand 150 Ω
R 397	278 508	3	Sicherungswiderstand 150 Ω
IC 391	278 219	1	IC NJM 4556
IC 392	278 220	1	IC BA 6138
VR 201	263 222	1	Steller 500 Ω
120	278 181	1	Controlplatte
D 601	278 507	1	Diode HZ 12 C 1
D 602	264 086	3	Diode MA 150
D 603	264 086	3	Diode MA 150
D 604	278 227	1	Diode HZ 9 C 1
D 605	278 509	1	Diode HZ 7 B 1
D 606	278 228	1	Diode HZ 3 B 2
D 607	264 086	3	Diode MA 150
Q 601	273 904	1	Transistor 2 SK 246 Y
Q 602	278 223	1	Transistor 2 SC 1685 Q
Q 603	278 195	1	Transistor 2 SD 1406 GR
Q 604	265 578	1	Transistor 2 SA 564
Q 605	278 217	1	Transistor 2 SC 3112 B
Q 606	278 217	1	Transistor 2 SC 3112 B
Q 607	278 193	1	Transistor 2 SB 1015 GR
Q 608	273 779	2	Transistor 2 SC 1685 S
Q 609	273 779	2	Transistor 2 SC 1685 S
Q 610	265 578	1	Transistor 2 SA 564
Q 611	265 578	2	Transistor 2 SA 564
CF 601	271 101	1	Keramik-Filter
IC 601	270 225	1	IC M 54560 P
IC 602	270 180	1	IC TC 4069 UBP
IC 603	271 105	1	IC TD 62104 P
IC 604	278 221	1	IC UP TMP 4321

Pos.	Art.-Nr.	Stck	Bezeichnung
IC 605	273 973	1	IC BA 6109
IC 606	278 226	1	IC BA 6209
IC 607	278 225	1	IC AN 7805
RA 601	278 510	2	Netzwerk 10 K
RA 602	278 511	1	Netzwerk 4,7 K
RA 603	278 510	2	Netzwerk 10 K
RA 604	278 512	1	Netzwerk 2,2 K
RA 605	278 513	1	Netzwerk 4,7 K
VR 601	278 200	1	Steller 2 kΩ
125	278 182	1	Selectionsplatte
D 701	264 086	1	Diode MA 150
D 702	264 086	1	Diode MA 150
S 2-7	278 232	1	Drucktastenset
IC 701	273 840	1	IC TC 4001 BP
IC 702	278 208	1	IC TD 62554 S
VR 701	278 231	2	Steller 50 kΩ
VR 702	278 231	2	Steller 50 kΩ
130	278 184	1	Frontteil SM kpl.
130	278 781	1	Frontteil AM kpl.
131	278 243	1	Frontblende SM
131	278 793	1	Frontblende AM
132	278 244	1	Knopf SM
132	278 789	1	Knopf AM
133	278 515	1	Tipptastenplatte
134	274 053	1	Taste SM kpl.
134	278 594	1	Taste AM kpl.
136	274 056	1	Taste SM
136	278 792	1	Taste AM kpl.
137	278 516	1	LED-Platte
138	278 242	1	Anzeigelinstrument
D 801	264 086	2	Diode DD 150
D 802	264 086	2	Diode DD 150
S 8	270 221	3	Tipptaster
S 9	270 221	3	Tipptaster
S 10	270 221	3	Tipptaster
S 11	274 447	7	Tipptaster
bis			
S 17	274 447	7	Tipptaster
LD 1	278 245	1	LED SL 1012
LD 2	273 786	5	LED GL 9 NG 24
LD 3	274 417	1	LED GL 9 PR 24
LD 4	273 786	5	LED GL 9 NG 24
bis			
LD 7	273 786	5	LED GL 9 NG 24
LD 8	278 086	2	LED GL 9 HY 24
LD 9	278 086	2	LED GL 9 HY 24
128	278 783	1	Entzerrerplatte LED
IC 391	278 208	1	IC TD 62554 S
140	278 079	1	Drehknopf R SM
140	278 786	1	Drehknopf R AM
141	272 326	1	Drehknopf L SM
141	278 785	1	Drehknopf L AM
145	278 185	1	Cassetten-Abdeckung SM
145	278 782	1	Cassetten-Abdeckung AM
147	278 332	1	Taste SM kpl.
147	278 795	1	Taste AM kpl.
150	278 186	1	Rückwand kpl.
150	278 248	1	Rückwand
151	278 247	1	Netztrafo
152	277 989	1	Netzschalter
153	243 750	1	Netzkabel Europa
155	278 192	1	Taste SM
155	278 784	1	Taste AM
156	278 517	1	Tastenverlängerung
157	268 311	1	Gelenkfeder
160	266 528	1	Kopfhörerbuchse
162	268 315	4	Fuß
164	274 717	1	Stromversorgungsplatte
165	272 671	1	Gehäuseblech SM
165	275 896	1	Gehäuseblech AM
166	272 673	4	Schraube 4 x 6
166	275 907	4	Schraube 4 x 6 AM
167	221 269	1	Sicherung T 0,16 A
277 966		1	Bedienungsanleitung C 846
278 274		1	Verpackungskarton SM
278 791		1	Verpackungskarton AM
278 275		1	Seitenteil L
278 276		1	Seitenteil R
278 277		1	Seitenteil F

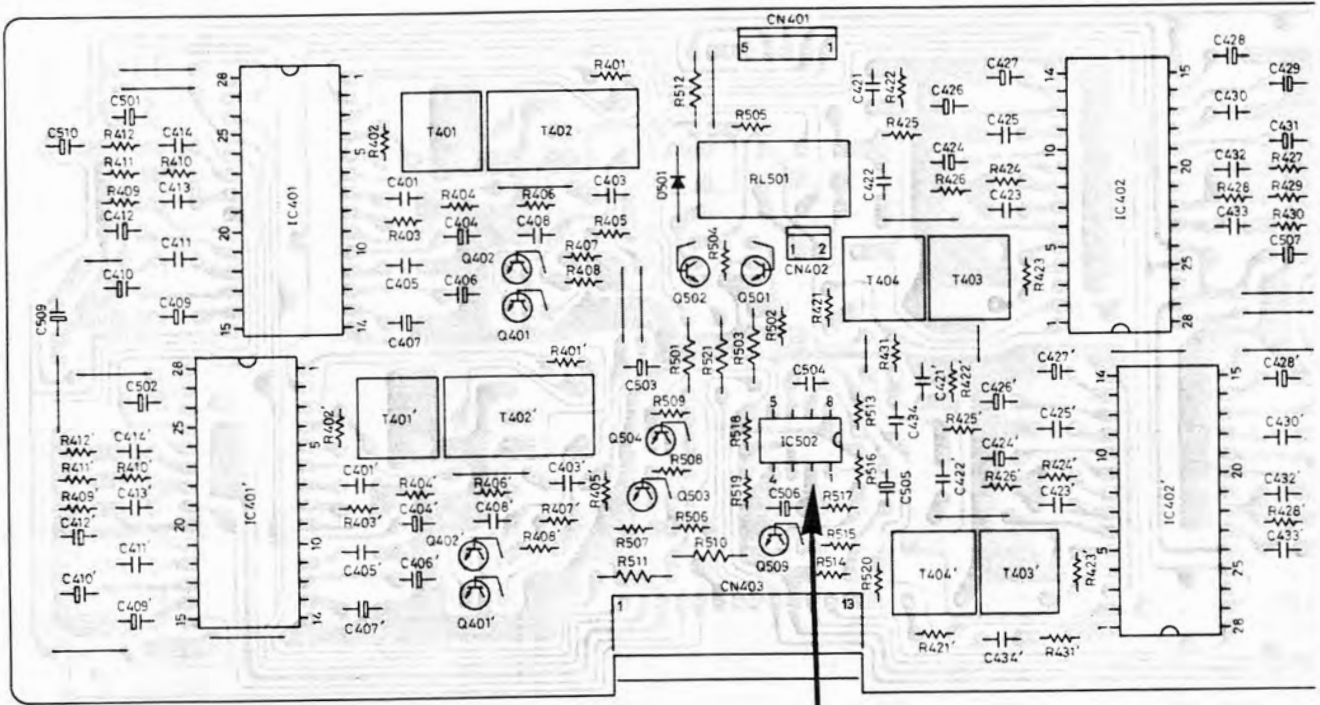
Drucksachen - Korrektur Correction Imprimés rectification



Datum/Date/Date 29.01.1987	Zeichen-Ref./N/réf. KD/N	Geräte Nr. Serial number No. de l'appareil	No 1/C846
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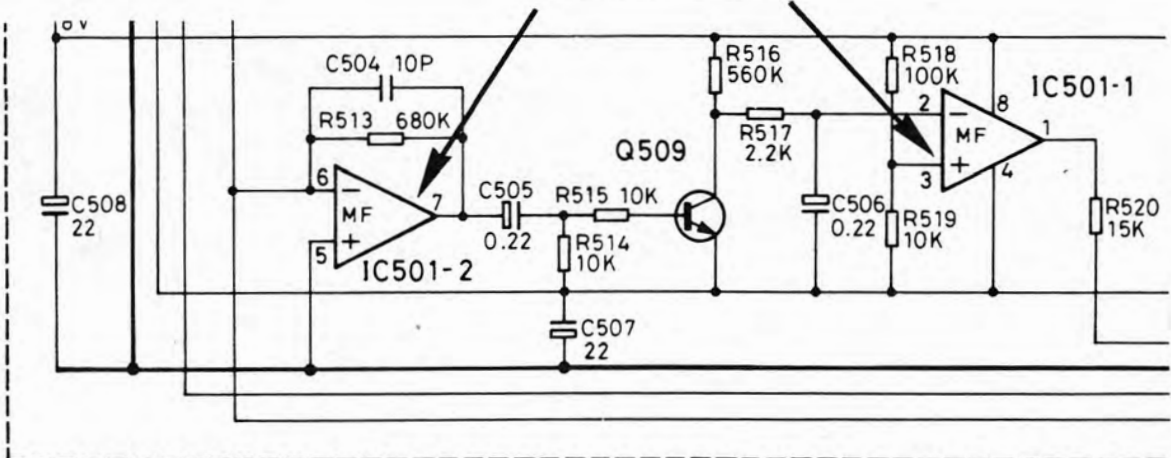
Dolbyplatte/Dolby Board L

- CN 401 → P 712 Selection Board
- CN 402 → P 210 Connection Board
- CN 403 → CN 308 Main Board

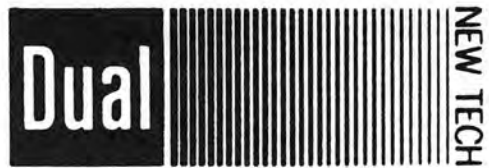


IC 502 \cong IC 501

IC 501 \cong IC 502



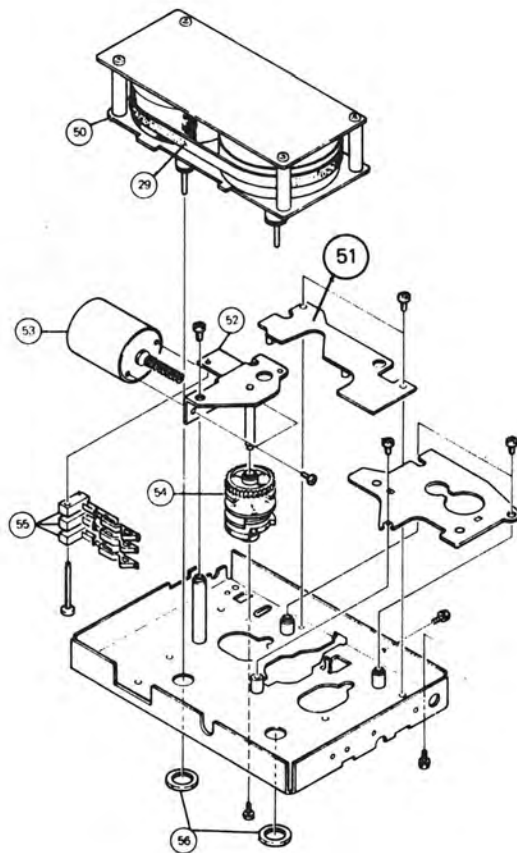
Drucksachen - Korrektur Correction Imprimés rectification



Datum-Date-Date 17.03.1987	Zeichen-Ref.-N/réf. KD/Ju - Wa	Geräte Nr. Serial number- No. de l'appareil	No 2/C 846
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Service-Anleitung C 846
Service-Manual
Instructions de Service

Pos.	Art-Nr.	Bezeichnung
51	279 575	Sensorplatte
134	278 333	Taste SM
138	271 797	Lampe 12 V/110 mA



Änderungs - Mitteilung Modification Information Information de modification



Datum-Date-Date 30.04.85	Zeichen-Ref.-N/réf. KD 12/Bm	Geräte Nr.-Serial number. No. de l'appareil Ab Fabr.-Nr. 12 961	No 1/C 846
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Erscheinung: Bei schwergängiger Cassette und Betriebsart "music finder ◀" schaltet das Gerät in den schnellen Vorlauf um und kann durch Betätigung der Bedientasten nicht mehr beeinflusst werden.
Achtung: Wickelmotor schaltet am Bandende nicht ab.

Abhilfe: IC 604, DUAL-µP TMP 4321, Art-Nr. 278 221 tauschen.
Zusätzlich ist C 313' von 2,2 µF in 4,7 µF zu ändern.
(Verzögerung der Mutingschaltung).

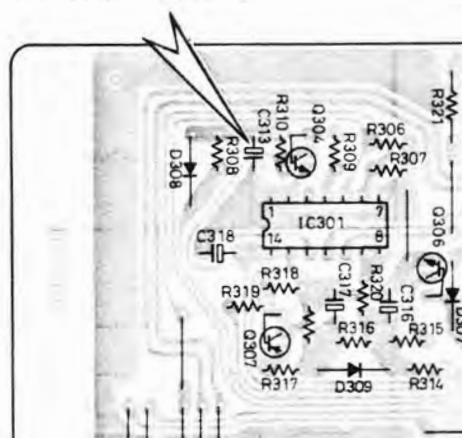
Symptom: When the cassette in running hard and unit is in position "music finder ◀" the unit is turning into function ▶. A pressing of the keys shows no influence.
Attention: Winding motor does not cut off at the end of tape.

Remedy: Exchange IC 604, DUAL-µP TMP 4321 part-no. 278 221.
In addition C 313' has to be modified from 2,2 µF to 4,7 µF (lag of muting circuit).

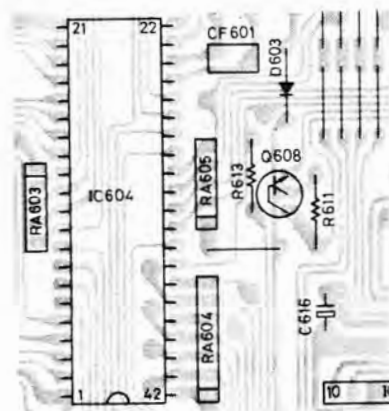
Phénomène: Si la cassette est dure et l'appareil est en position "music finder ◀" il tourne en fonction ▶. Pressant les touches n'est pas du succès.
Attention: Moteur u'arrête pas au fin de la bande.

Remède: Echangez IC 604, DUAL-µP TMP 4321 ref. 278 221.
Additivement il faut modifier C 313' du 2,2 µF à 4,7 µF.
(Délai du circuit muting).

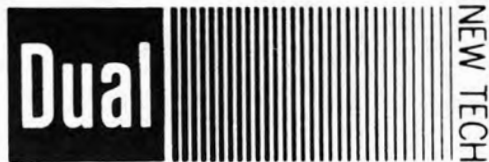
Grundplatte/Main Board



Controllplatte/Control Board



Änderungs - Mitteilung Modification Information Information de modification

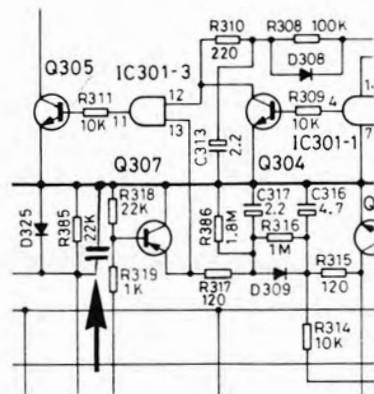
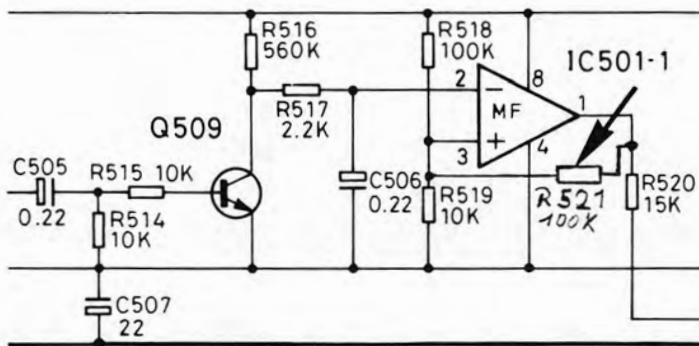


Datum Date-Date 02.12.1986	Zeichen-Ref -N/réf. KD/N	Geräte Nr., Serial number No. de l'appareil = 11680	Gerat-Model-Appareil Z/C 846
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Erscheinung: Hörbare Verzerrungen im rechten Kanal

- Abhilfe : - Über IC 501 Pin 1 und Pin 3 einen Widerstand 100 kOhm
1/4 W (R 521) löten
- Über R 385 einen keramischen Kondensator 0,015 µF/25 V
löten

Ab obengen. Fabr. Nr. ist die Änderung bereits durchgeführt.



- Sympton : Audible distortion at right channel
- Remedy : - Solder via IC 501 pin 1 and pin 3 a resistor 100 kohms
1/4 W (R 521)
- Solder parallel via R 385 a ceramic capacitor
0,015 µF/25 V

On units above serial no. 11681 is the modification already made.