

# G1854

# GRUNDIG SERVICE MANUAL



ⓓ Btx ★ 32700 #

**STUDIO / INE**

**RR 9900 CD**

75987-519.00

**COMPACT  
disc  
DIGITAL AUDIO**



ⓓ

ⓖⓑ

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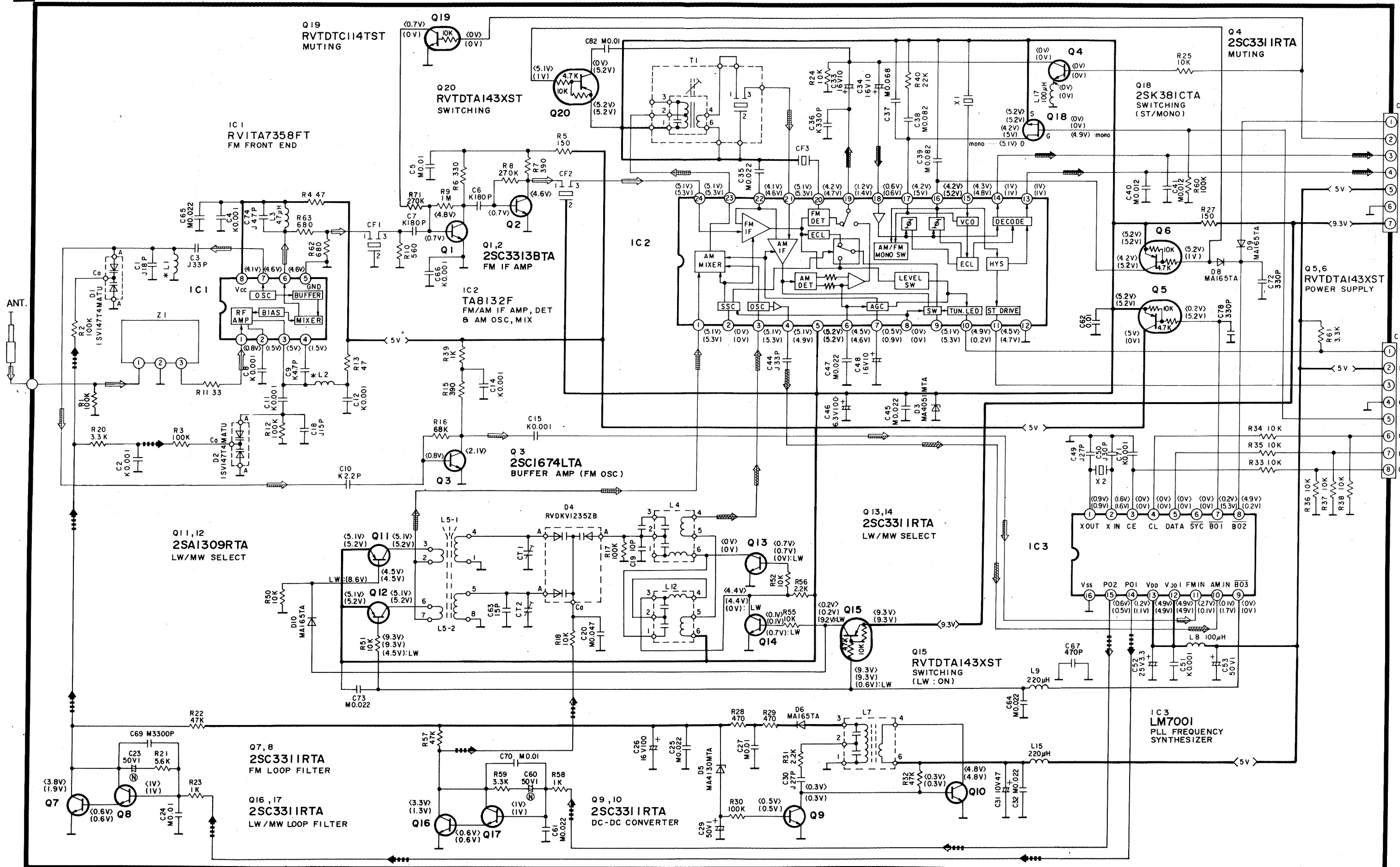
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**D** **Achtung:** Bei Eingriffen ins Gerät sind die Sicherheitsvorschriften nach VDE 701 (reparaturbezogen) bzw. VDE 0860 / IEC 65 (gerätebezogen) zu beachten!

Bauteile nach IEC- bzw. VDE-Richtlinien! Im Ersatzfall nur Teile mit gleicher Spezifikation verwenden!

**MOS -** Vorschriften beim Umgang mit MOS - Bauteilen beachten!

**GB** **Attention:** Please observe the applicable safety requirements according to VDE 701 (concerning repairs) and VDE 0860 / IEC 65 (concerning type of product)

Components to IEC or VDE guidelines! Only use components with the same specifications for replacement!

Observe **MOS** components handling instructions when servicing!

**E** **Atención:** Recomendamos las normas de seguridad VDE u otras normas equivalentes, por ejemplo: VDE 701 para reparaciones, VDE 0860 / IEC 65 para aparatos!

Componentes que cumplen las normas VDE/IEC. En caso de sustitución, emplear componentes con idénticas especificaciones!

Durante la reparación observar las normas sobre componentes **MOS**!

**F** **Attention:** Priere d'observer les prescriptions de securite VDE 701 (concernant les reparations) et VDE 0860 / IEC 65 (concernant le type de produit)!

Composants répondant aux normes VDE ou IEC. Les remplacer uniquement par des composants ayant les memes spécifications.

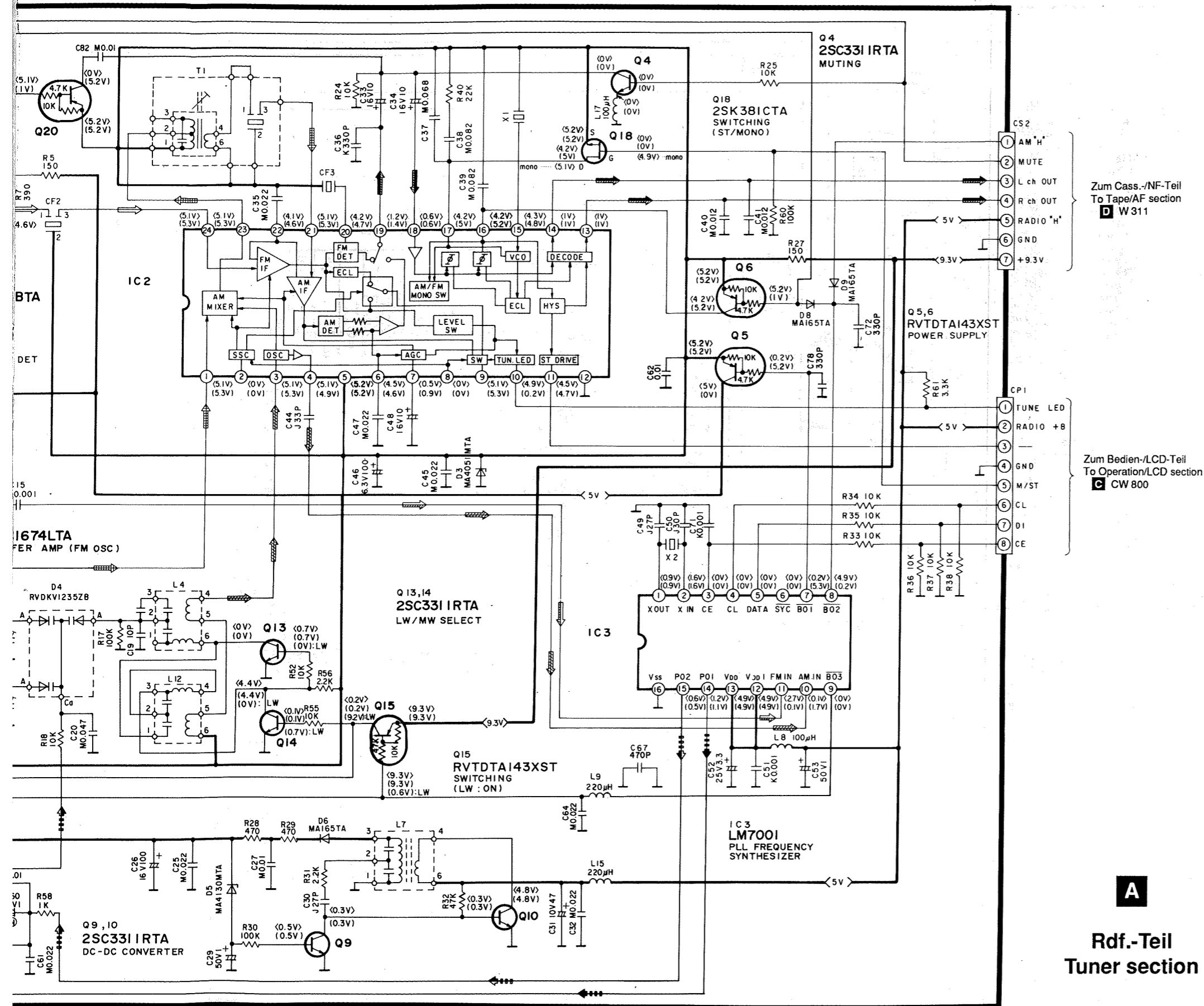
Lors de la manipulation des circuits **MOS**, respecter les prescriptions **MOS**!

**I** **Attenzione:** Osservare le corrispondenti prescrizioni di sicurezza VDE 701 (concernante servizio) e VDE 0860 / IEC 65 (concernante il tipo di prodotto)!

Componenti secondo le norme VDE risp. le IEC! In caso di sostituzione impiegare solo componenti con le stesse caratteristiche.

Osservare le relative prescrizioni durante, lavori con componenti **MOS**!

ANDE  
SUBJ  
MODI  
CON  
RESE



- HINWEISE:**  
**NOTES:**
- : FM-SIGNAL
  - ▤ : AM-SIGNAL
  - ▨ : FM/AM-SIGNAL
  - ▧ : FM OSC-SIGNAL
  - ▩ : AM OSC-SIGNAL
  - ▦ : FM } V-cap CONTROL SIGNAL
  - ▧ : AM } ABSTIMMSPANNUNG
  - ▨ : PLAYBACK/WIEDERGABE-SIGNAL
  - ▩ : RECORD/AUFNAHME-SIGNAL
  - ▧ : MIC-SIGNAL
  - ▨ : CD-SIGNAL
  - ▩ : MAIN/NF-SIGNAL
  - ←V→ : +

Gleichspannungen gemessen gegen Minus.  
DC-Voltages measured against minus terminal.

(V) ..... AM;  
<V> ..... UKW/FM;  
(V) ..... CD;  
[V] ..... Radio/Tuner;  
[[V]] ..... Autom.-Aufn./ATLS;  
[V] ..... Muting;  
[V] ..... Aufnahme/Record;  
No mark ... Tape Playback.

Zum Cass.-/NF-Teil  
To Tape/NF section  
D W 311

Zum Bedien-/LCD-Teil  
To Operation/LCD section  
C CW 800

**CLASS 1  
LASER PRODUCT**

VORSICHT! Unsichtbare Laserstrahlung wenn die Abdeckung geöffnet und der Sicherheitsschalter überbrückt wird. Nicht direkt in den Laserstrahl blicken.

DANGER-Invisible laser radiation when open and interlock defeated. Avoid direct exposure to beam.

**A**  
Rdf.-Teil  
Tuner section

**GRUNDIG**  
**STUDIO LINE**  
**RR 9900 CD**

**E** Atención: Recomendamos las normas de seguridad VDE u otras normas equivalentes, por ejemplo: VDE 701 para reparaciones, VDE 0860 / IEC 65 para aparatos!

Componetes que cumplen las normas VDE/IEC. En caso de sustitución, emplear componentes con idénticas especificaciones!  
Durante la reparación observar las normas sobre componentes MOS!

**F** Attention: Priere d'observer les prescriptions de securite VDE 701 (concernant les reparations) et VDE 0860 / IEC 65 (concernant le type de produit)

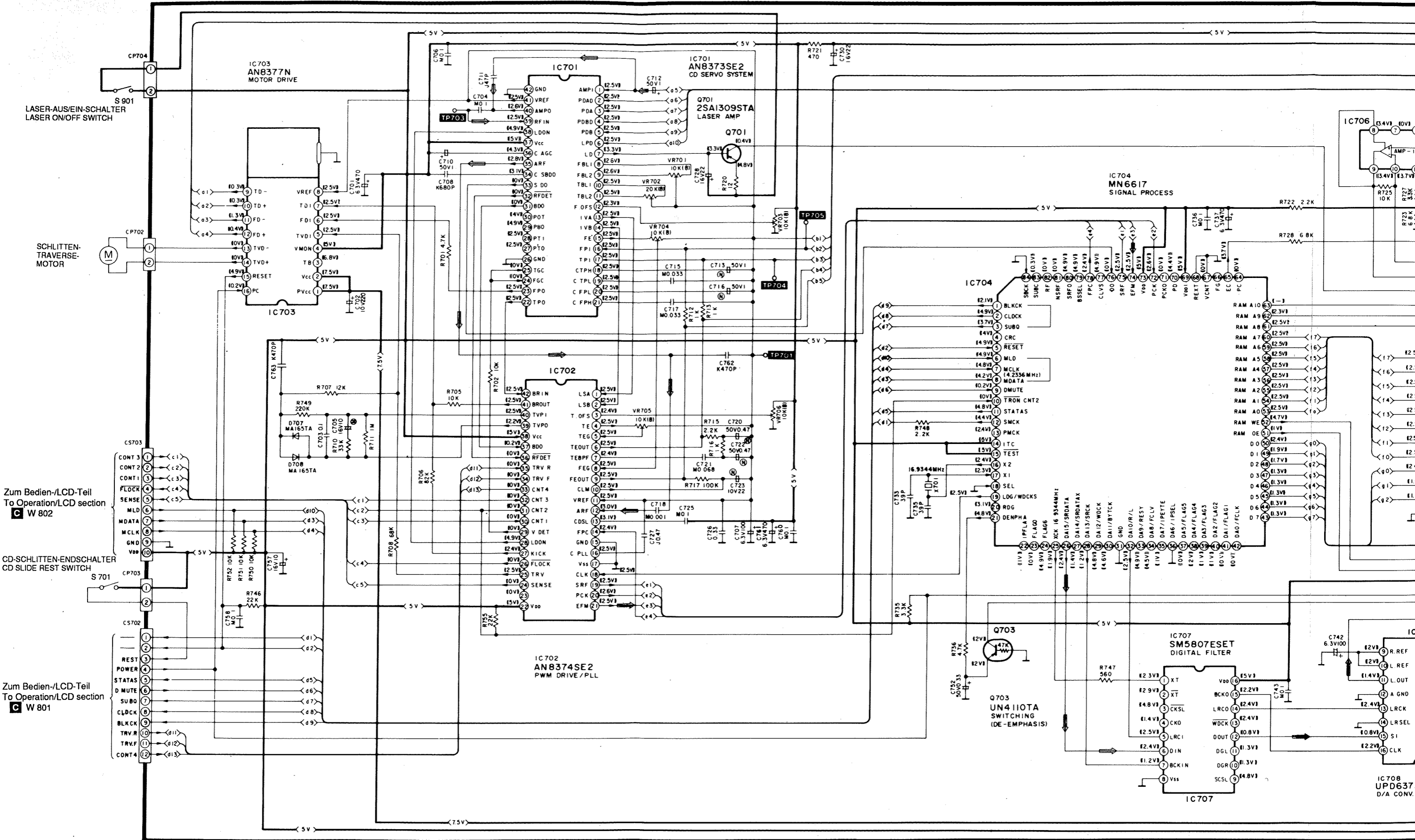
Composants répondant aux normes VDE ou IEC. Les remplacer uniquement par des composants ayant les memes spécifications.  
Lors de la manipulation des circuits MOS, respecter les prescriptions MOS!

**I** Attenzione: Osservare le corrispondenti prescrizioni di sicurezza VDE 701 (concernante servizio) e VDE 0860 / IEC 65 (concernente il tipo di prodotto)

Componenti secondo la norme VDE risp. la IEC! In caso di sostituzione impiegare solo componenti con le stesse caratteristiche.  
Osservare le relative prescrizioni durante, lavori con componenti MOS!

ÄNDERUNGEN VORBEHALTEN.  
SUBJECT TO ALTERATION.  
MODIFICATIONS RESERVEES.  
CON RISERVA DI MODIFICA.  
RESERVADO EL DERECHO DE MODIFICACION.

B CD



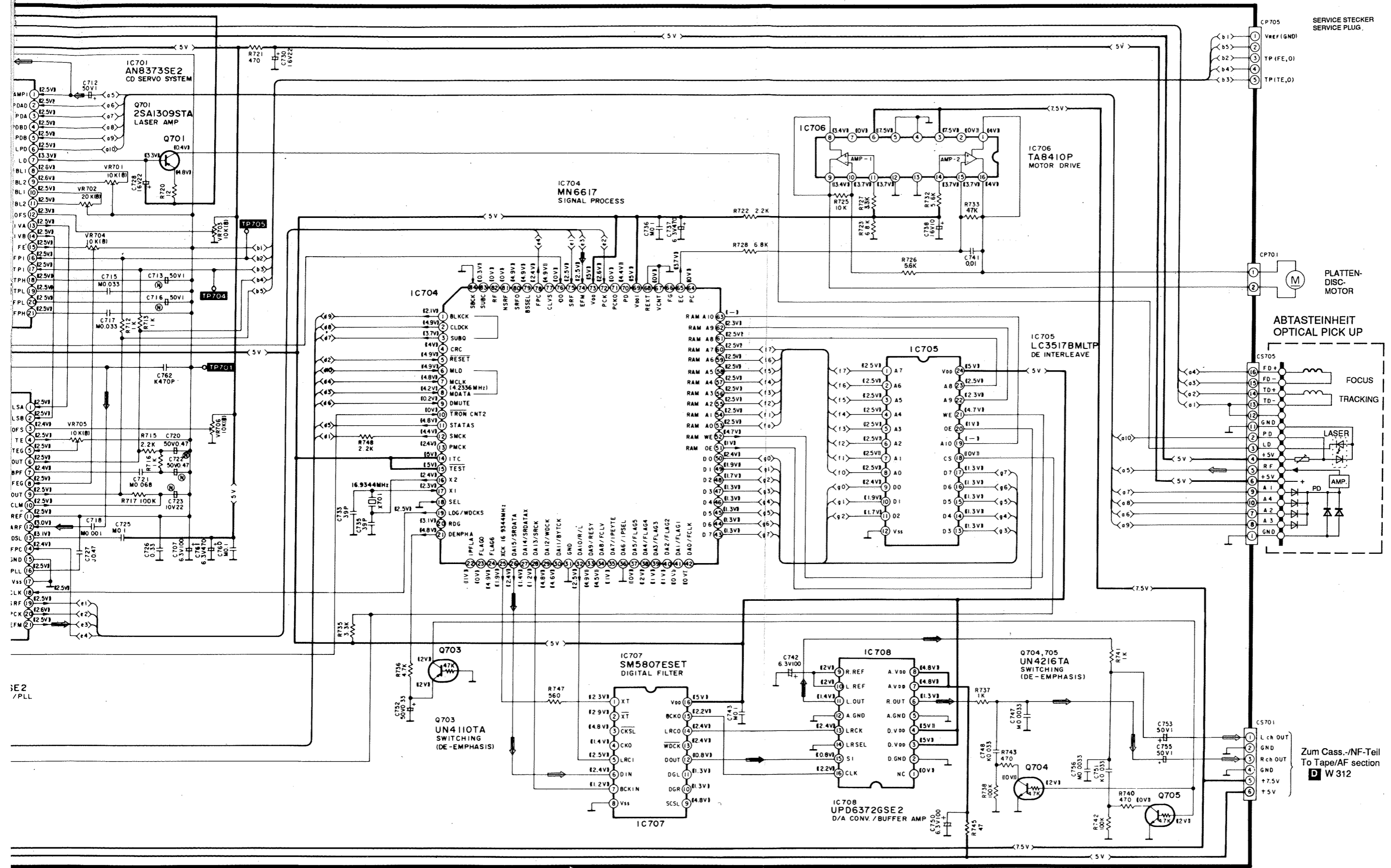
**GRUNDIG**  
**STUDIO LINE**  
**RR 9900 CD**

**B**  
**CD - Teil**  
**CD section**

**CLASS 1**  
**LASER PRODUCT**

VORSICHT! Unsichtbare Laserstrahlung wenn die Abdeckung geöffnet und der Sicherheitsschalter überbrückt wird. Nicht direkt in den Laserstrahl blicken.

DANGER-Invisible laser radiation when open and interlock defeated. Avoid direct exposure to beam.



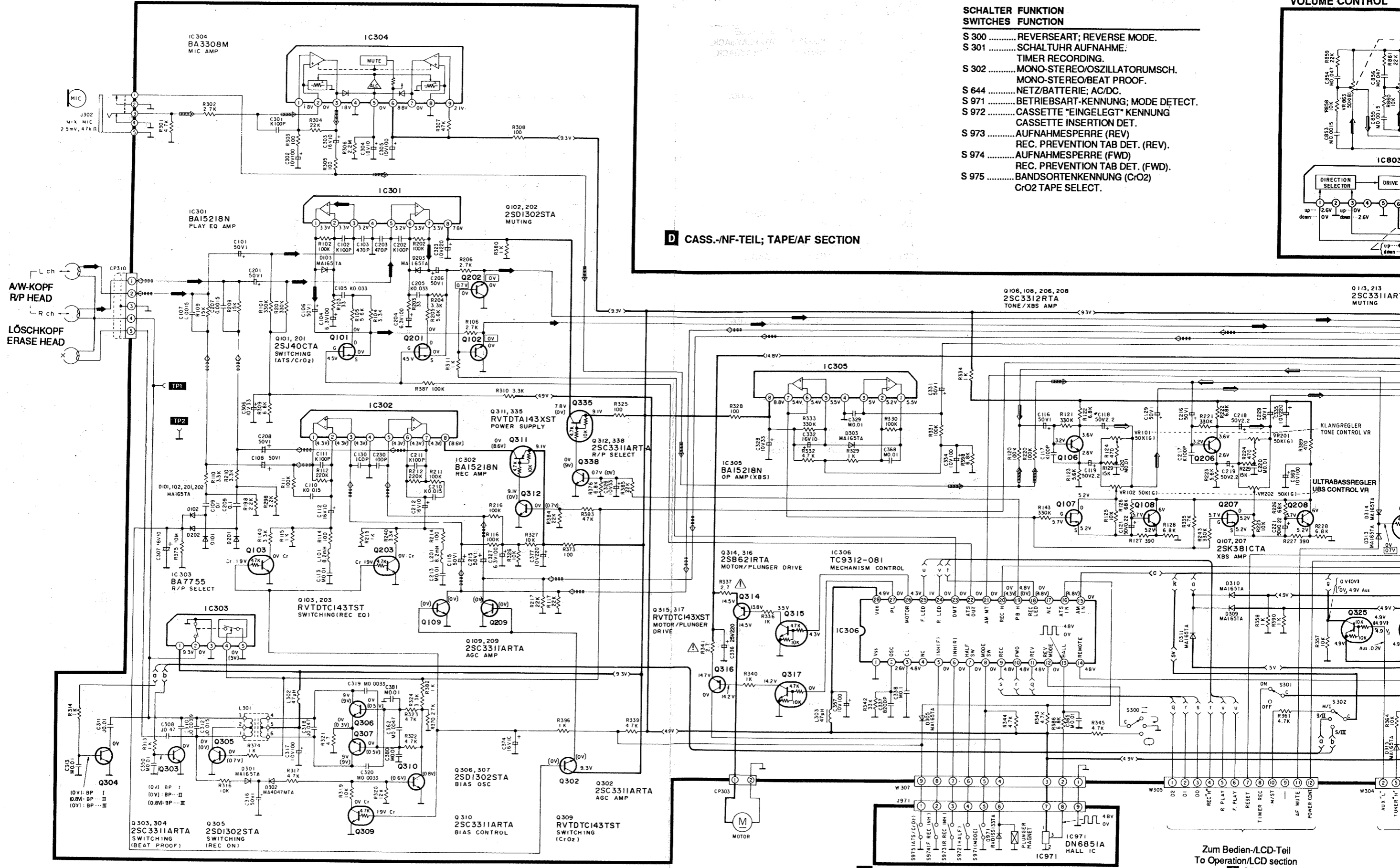
**CLASS 1  
LASER PRODUCT**

VORSICHT! Unsichtbare Laserstrahlung wenn die Abdeckung geöffnet und der Sicherheitsschalter überbrückt wird. Nicht direkt in den Laserstrahl blicken.

DANGER-Invisible laser radiation when open and interlock defeated. Avoid direct exposure to beam.

**EINSTELLREGLER; ADJUSTMENT VR**  
 VR 701 .... HF; RF AMPL.  
 VR 702 .... TRACKING BALANCE  
 VR 703 .... FOCUS OFFSET  
 VR 704 .... FOCUS GAIN  
 VR 705 .... TRACKING GAIN  
 VR 706 .... TRACKING OFFSET



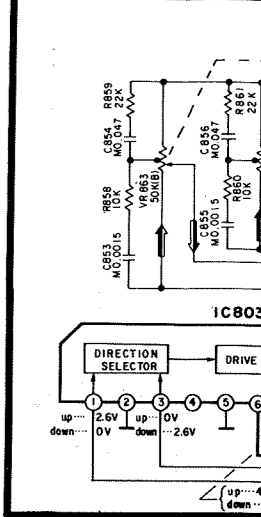


**SCHALTER FUNKTION  
SWITCHES FUNCTION**

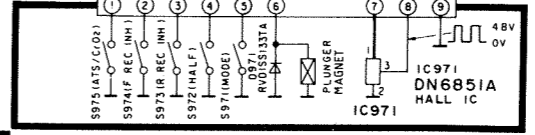
- S 300 ..... REVERSEART; REVERSE MODE.
- S 301 ..... SCHALTUHR AUFNAHME.  
TIMER RECORDING.
- S 302 ..... MONO-STEREO/OSZILLATORUMSCH.  
MONO-STEREO/BEAT PROOF.
- S 644 ..... NETZ/BATTERIE; AC/DC.
- S 971 ..... BETRIEBSART-KENNUNG; MODE DETECT.
- S 972 ..... CASSETTE "EINGELEGT" KENNUNG  
CASSETTE INSERTION DET.
- S 973 ..... AUFNAHMESPERRE (REV)  
REC. PREVENTION TAB DET. (REV).
- S 974 ..... AUFNAHMESPERRE (FWD)  
REC. PREVENTION TAB DET. (FWD).
- S 975 ..... BANDSORTENKENNUNG (CrO2)  
CrO2 TAPE SELECT.

**D CASS.-/NF-TEIL; TAPE/AF SECTION**

**F LAUTSTÄRKEREGLER  
VOLUME CONTROL**



**E CASS.-LAUFWERK; MECHANISM**



Zum Bedien-/LCD-Teil  
To Operation/LCD section  
CS 805

**F LAUTSTÄRKEREGLER - STEUERUNG**  
**VOLUME CONTROL**

Zum Rdf.-Teil; To Tuner section

Zum CD-Teil; To CD section

**A CS 2**

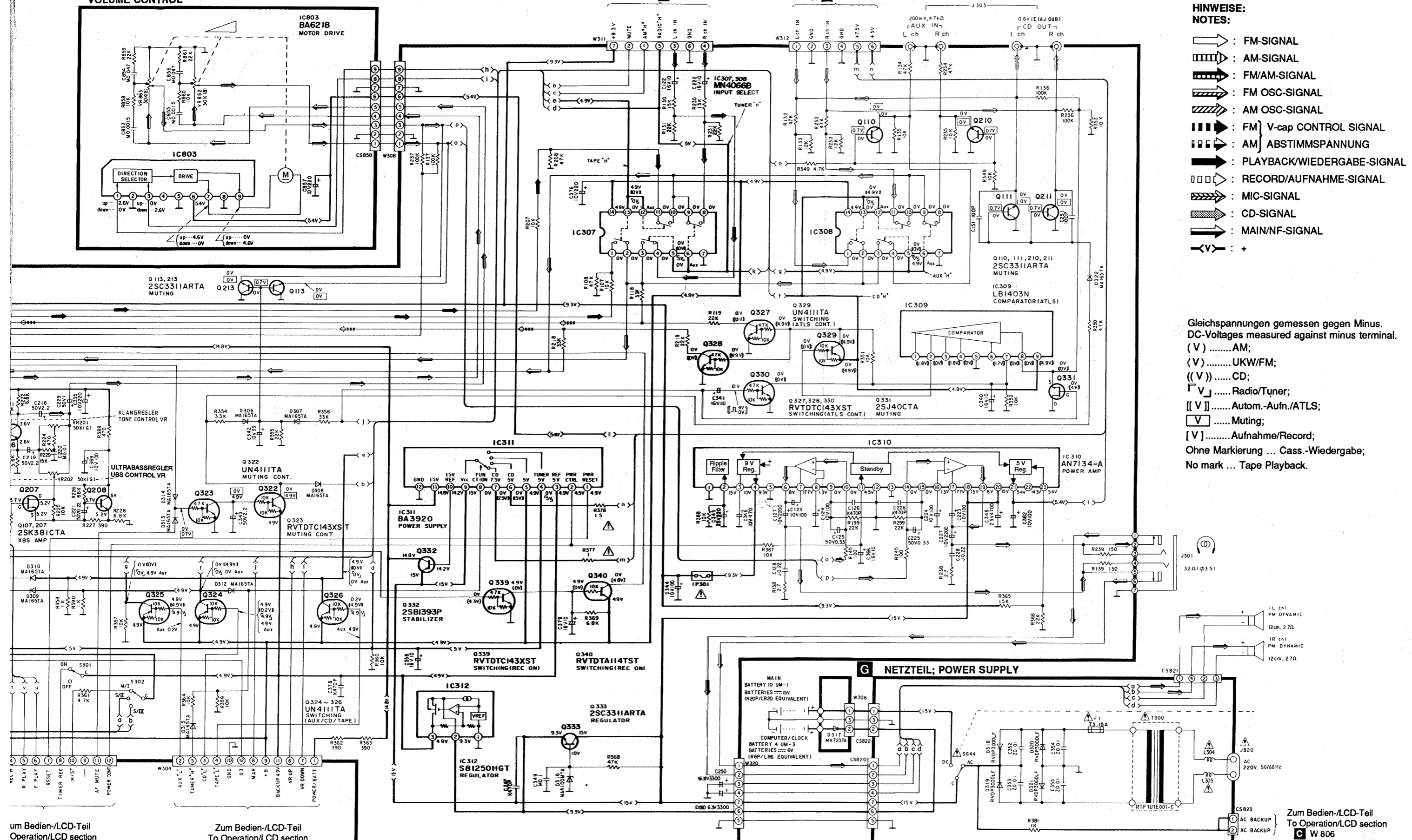
**B CS 701**

**HINWEISE:**  
**NOTES:**

- : FM-SIGNAL
- ▢→ : AM-SIGNAL
- ▨→ : FM/AM-SIGNAL
- ▧→ : FM OSC-SIGNAL
- ▩→ : AM OSC-SIGNAL
- ▤→ : FM V-cap CONTROL SIGNAL
- ▥→ : AM ABSTIMMSPANNUNG
- ▦→ : PLAYBACK/WIEDERGABE-SIGNAL
- ▧→ : RECORD/AUFNAHME-SIGNAL
- ▨→ : MIC-SIGNAL
- ▩→ : CD-SIGNAL
- : MAIN/NF-SIGNAL
- ←V> : +

Gleichspannungen gemessen gegen Minus.  
DC-Voltages measured against minus terminal.

- (V) ..... AM;
- <V> ..... UKW/FM;
- ((V)) ..... CD;
- [V] ..... Radio/Tuner;
- [V] ..... Autom.-Aufn./ATLS;
- [V] ..... Muting;
- [V] ..... Aufnahme/Record;
- Ohne Markierung ... Cass.-Wiedergabe;
- No mark ... Tape Playback.



um Bedien-/LCD-Teil  
Operation/LCD section  
**C CS 805**

Zum Bedien-/LCD-Teil  
To Operation/LCD section  
**C CS 804**

Zum Bedien-/LCD-Teil  
To Operation/LCD section  
**C W 806**

**D E F** Cass.-/ NF-Teil  
Tape / AF section

**G** Netzteil  
Power supply

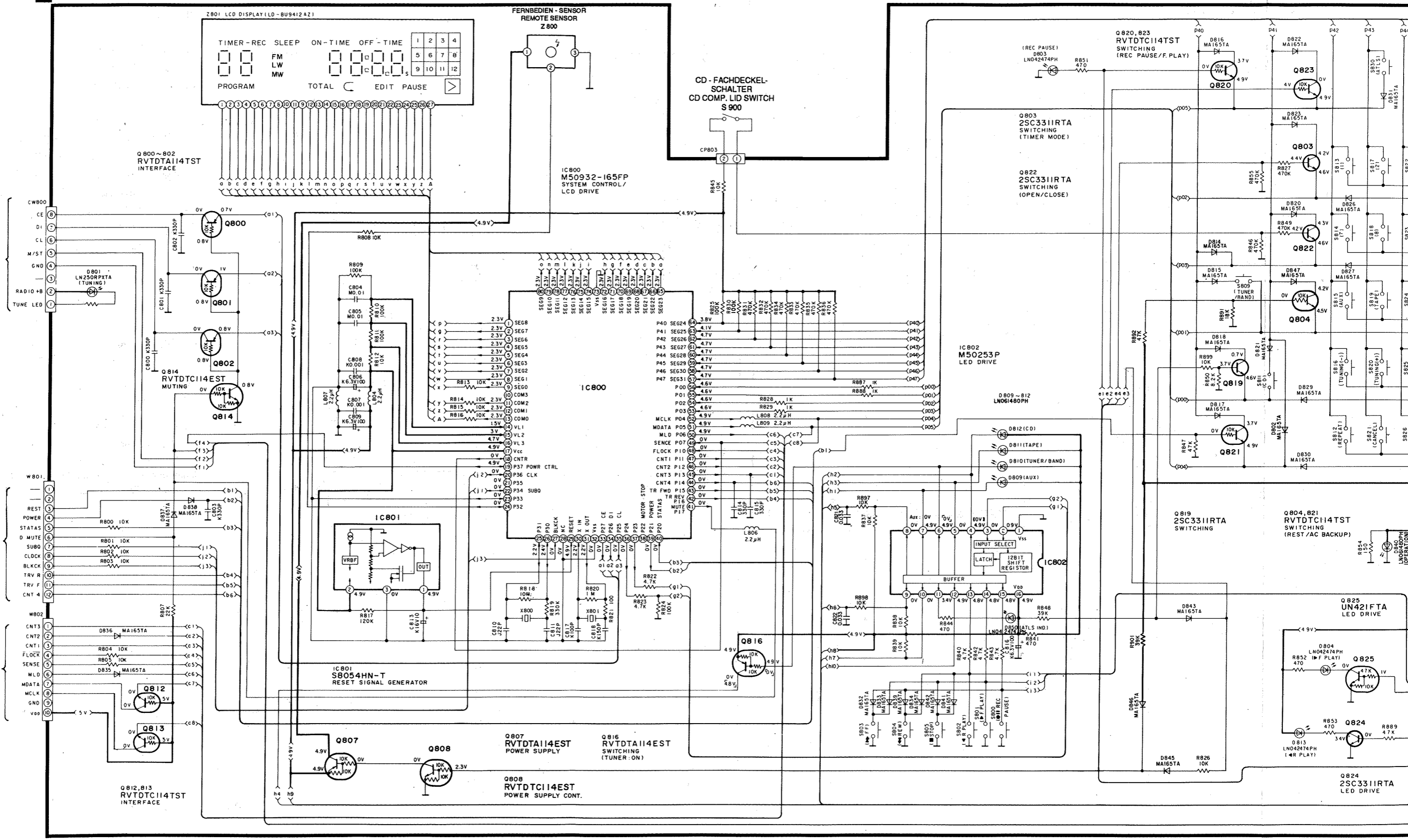
**GRUNDIG**  
**STUDIO LINE**  
**RR 9900 CD**

C

Zum Rdf.-Teil  
To Tuner section  
A CP 1

Zum CD-Teil  
To CD section  
B CS 702

Zum CD-Teil  
To CD section  
B CS 703



**GRUNDIG**  
 STUDIO LINE  
 RR 9900 CD

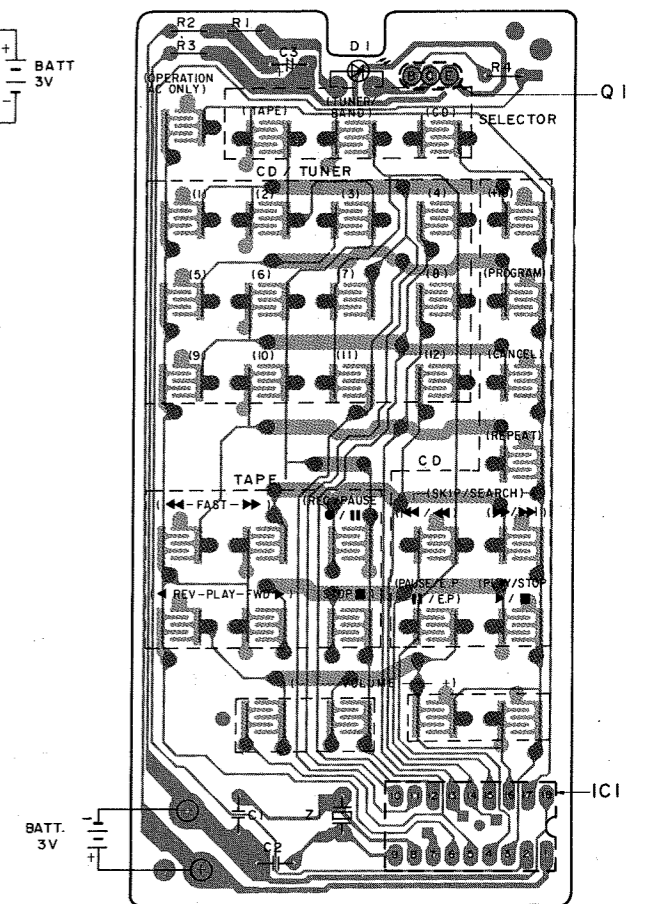
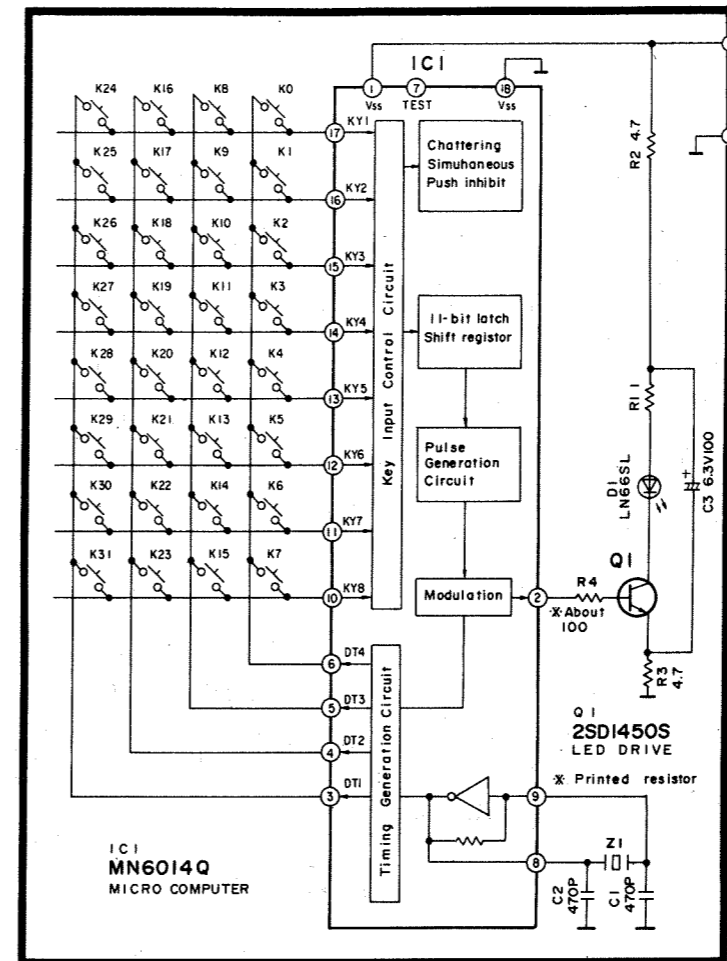
**C**  
 Bedien-/LCD - Teil  
 Operation/LCD section



# FERNBEDIENUNG REMOTE CONTROL ERC 9900

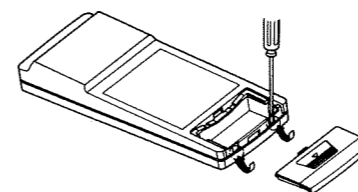
## SCHALTER FUNKTION SWITCHES FUNCTION

- S 800 ..... AUFN.-PAUSE; RECORD PAUSE.
- S 801 ..... FWD WIEDERGABE; FWD PLAYBACK.
- S 802 ..... REV WIEDERGABE; REV PLAYBACK.
- S 803 ..... FF.
- S 804 ..... REW.
- S 805 ..... STOP.
- S 809 ..... RUND F./BEREICH; TUNER/BAND.
- S 811 ..... CD.
- S 812 ..... CD "REPEAT".
- S 813 ..... CD/TUNER "1".
- S 814 ..... CD/TUNER "7".
- S 815 ..... AUX.
- S 816 ..... TIME SET/TUNING "-".
- S 817 ..... CD/TUNER "2".
- S 818 ..... CD/TUNER "8".
- S 819 ..... CASSETTE; TAPE.
- S 820 ..... TIME SET/TUNING "+".
- S 821 ..... TIME SET/TUNING "CANCEL".
- S 822 ..... CD/TUNER "3".
- S 823 ..... CD/TUNER "9".
- S 824 ..... EIN-AUS; ON-OFF.
- S 825 ..... TIME SET/TUNING "ADJUST".
- S 826 ..... CD "▶/■".
- S 827 ..... CD "II.E.P".
- S 828 ..... CD/TUNER "4".
- S 829 ..... CD/TUNER "10".
- S 830 ..... ATLS.
- S 831 ..... TIME SET/TUNING "ON/OFF TIME".
- S 832 ..... CD "▶▶/▶▶".
- S 834 ..... CD/TUNER "5".
- S 835 ..... CD/TUNER "11".
- S 836 ..... CD/TUNER "PROGRAM".
- S 837 ..... SLEEP.
- S 838 ..... CD/TUNER "6".
- S 839 ..... CD/TUNER "12".
- S 840 ..... CD/TUNER "10".
- S 841 ..... TIMER.
- S 842 ..... CD "◀◀/◀◀".
- S 900 ..... CD-FACHDECKEL-SCHALTER  
CD COMP. LID SWITCH.

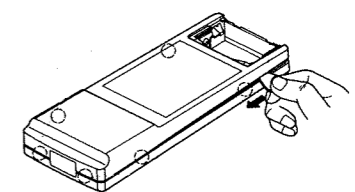


TASTE NR. KEY NO.	FUNKTION FUNCTION	TASTE NR. KEY NO.	FUNKTION FUNCTION	TASTE NR. KEY NO.	FUNKTION FUNCTION	TASTE NR. KEY NO.	FUNKTION FUNCTION
K 0	POWER	K 8	TAPE	K 16	TUNER	K 24	CD
K 1	◀ PLAY (REW)	K 9	VOLUME (-)	K 17	II PAUSE	K 25	VOLUME (+)
K 2	▶ PLAY (FWD)	K 10	■ STOP	K 18	◀◀/◀◀	K 26	▶/■
K 3	▶▶ FF	K 11	● II REC PAUSE	K 19	12	K 27	▶▶/▶▶
K 4	◀◀ REW	K 12	10	K 20	8	K 28	REPEAT
K 5	9	K 13	6	K 21	4	K 29	CANCEL
K 6	5	K 14	3	K 22	11	K 30	PROGRAM
K 7	1	K 15	2	K 23	7	K 31	+ 10

### Ausbauhinweis Disassembly Instruction

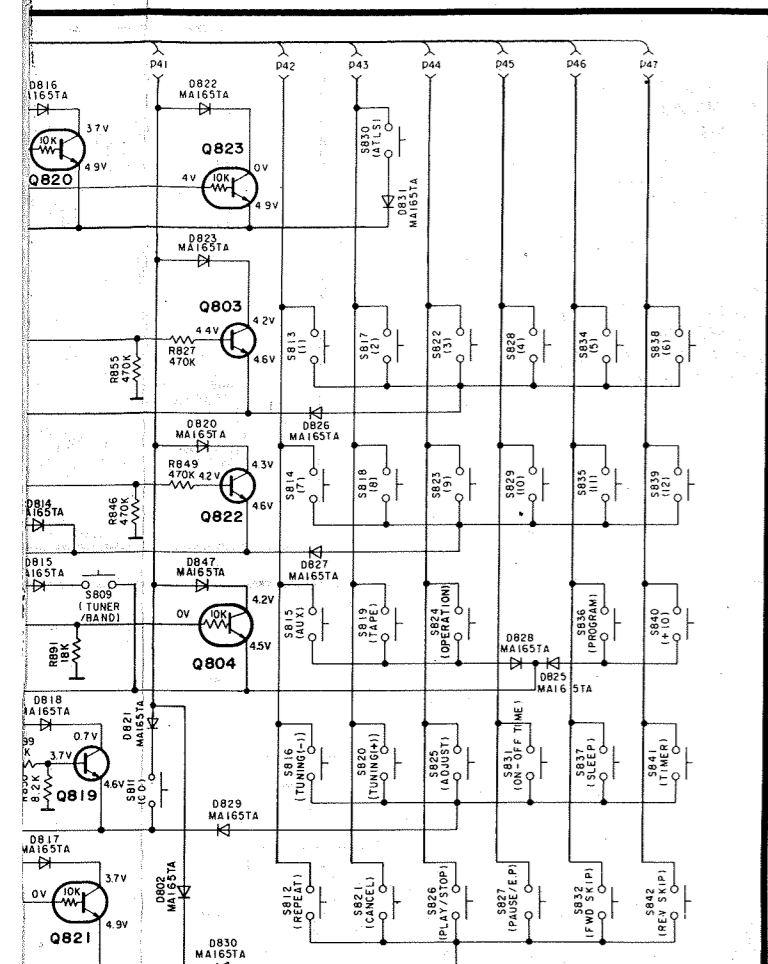


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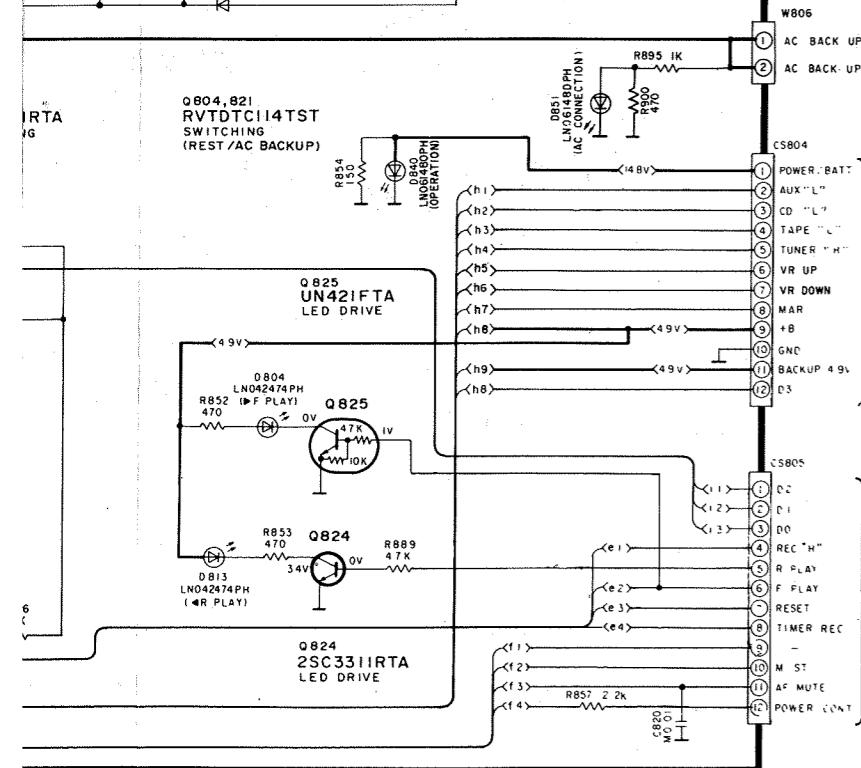


B

ÄNDERUNGEN VORBEHALTEN.  
SUBJECT TO ALTERATION.



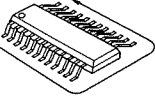

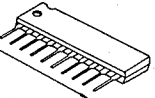
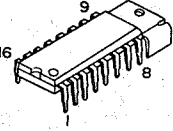
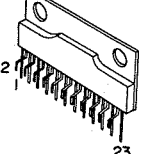
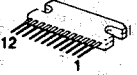
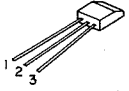
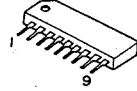
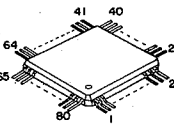
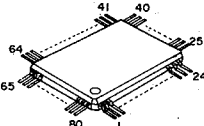
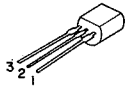

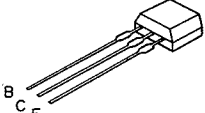
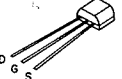

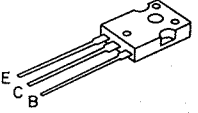
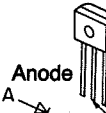
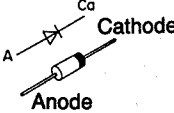
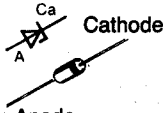
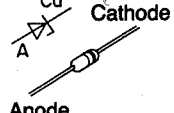
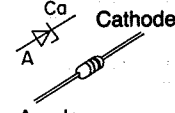
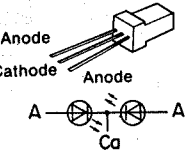
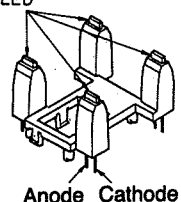
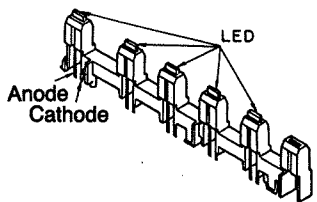
Zum Netzteil  
To Power supply section  
G CS 823



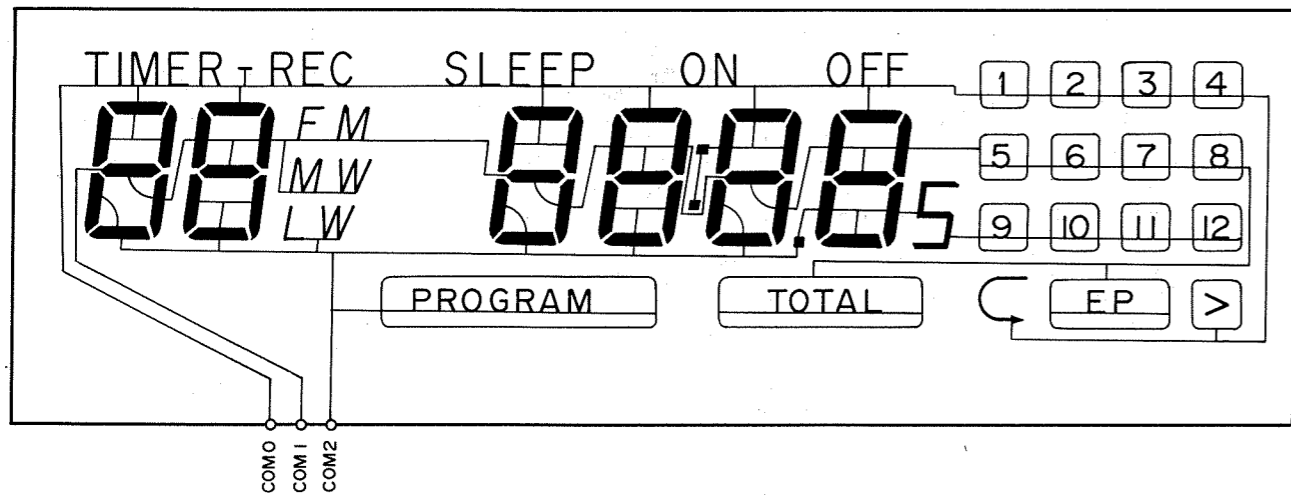
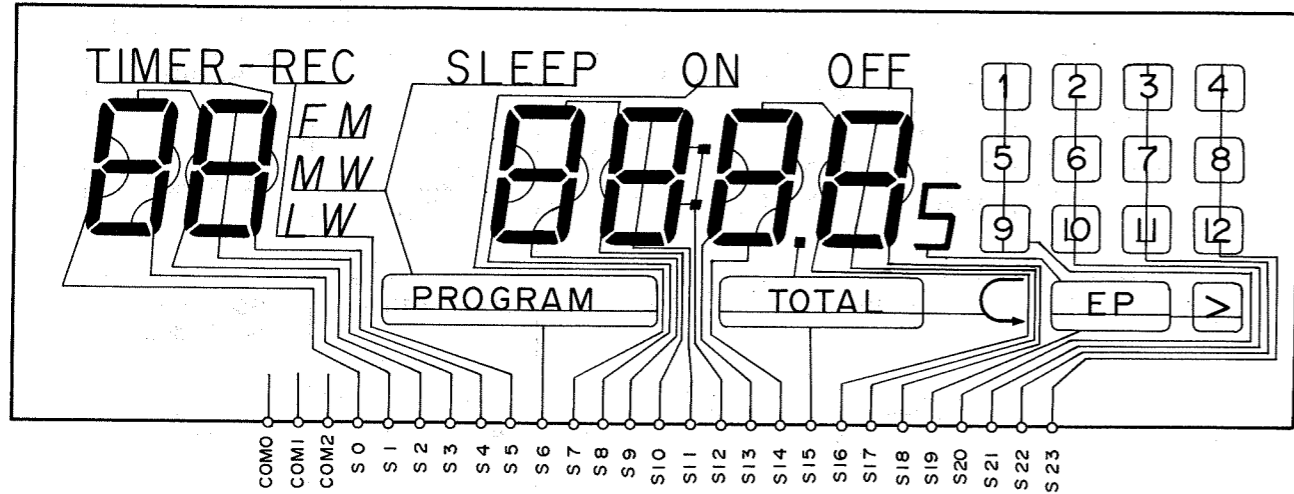
Zum Cass.-/NF-Teil  
To Tape/AF section  
D W 304

Zum Cass.-/NF-Teil  
To Tape/AF section  
D W 305

Gleichspannungen gemessen gegen Minus.  
DC-Voltages measured against minus terminal.  
( ( V ) ) ..... CD;  
┌ V ┐ ..... Radio/Tuner;  
Ohne Markierung ... Cass.-Wiedergabe;  
No mark ... Tape Playback.

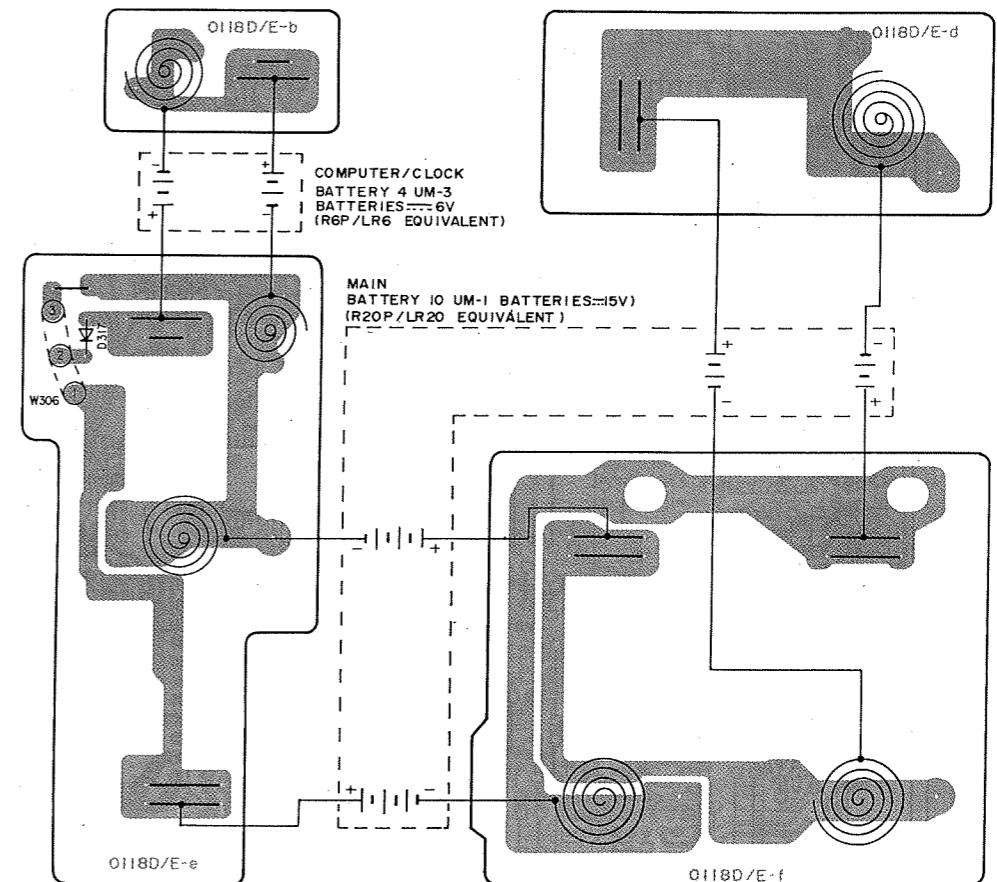
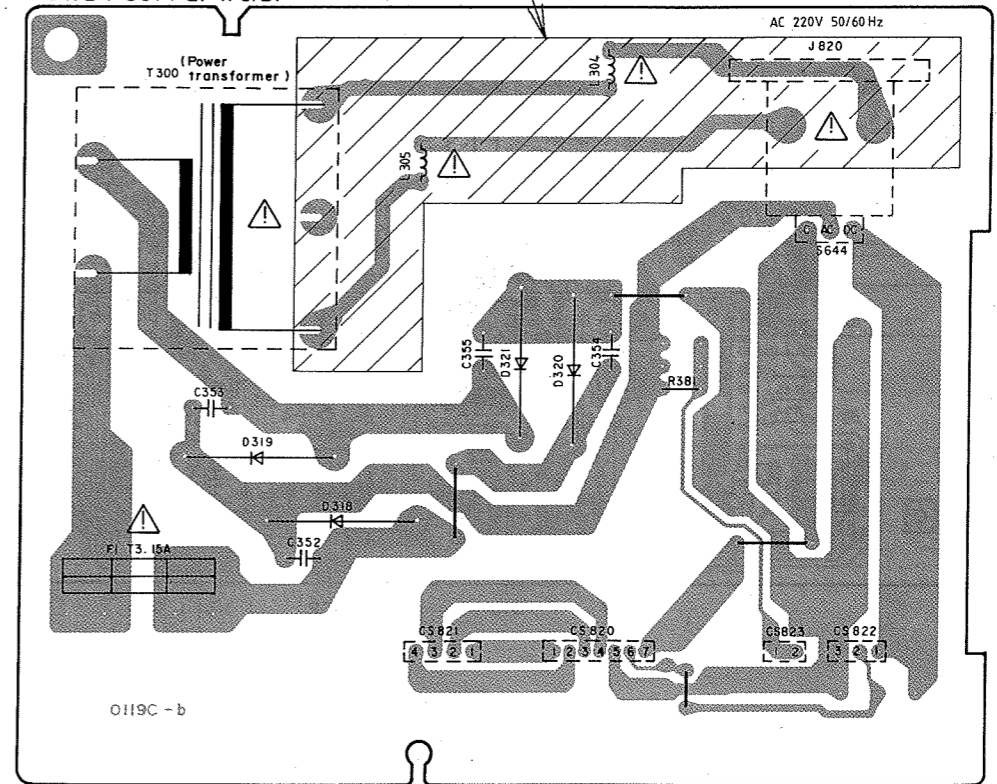
 <p>No.1</p>	<table border="1"> <tr><td>AN8373SE2</td><td>42Pin</td><td>TA8132F</td><td>24Pin</td></tr> <tr><td>AN8374SE2</td><td>42Pin</td><td>UPD6372GSE2</td><td>16Pin</td></tr> <tr><td>LC3517BMLTP</td><td>24Pin</td><td></td><td></td></tr> <tr><td>RVITA7358FT</td><td>8 Pin</td><td></td><td></td></tr> <tr><td>SM5807ESET</td><td>16Pin</td><td></td><td></td></tr> </table>	AN8373SE2	42Pin	TA8132F	24Pin	AN8374SE2	42Pin	UPD6372GSE2	16Pin	LC3517BMLTP	24Pin			RVITA7358FT	8 Pin			SM5807ESET	16Pin			 <p>No.1</p>	<table border="1"> <tr><td>LM7001</td><td>16Pin</td></tr> <tr><td>MN4066B</td><td>14Pin</td></tr> <tr><td>M50253P</td><td>16Pin</td></tr> <tr><td>TA8410P</td><td>16Pin</td></tr> <tr><td>TC9312-081</td><td>28Pin</td></tr> </table>	LM7001	16Pin	MN4066B	14Pin	M50253P	16Pin	TA8410P	16Pin	TC9312-081	28Pin
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 <p>E C B</p>	<p>2SA1309STA 2SC3311ARTA 2SC3311RTA 2SC3312RTA 2SC3313BTA UN4110TA UN4111TA UN4216TA UN421FTA</p>	 <p>B C E</p>	<p>RVTDTA114EST RVTDTC114ECT RVTDTA143XST</p>	<p>2SJ40CTA 2SK381CTA</p>  <p>D G S</p>																													
<p>2SB621RTA 2SC1674LTA 2SD1302STA</p>  <p>E C B</p>	<p>2SB1311Q</p>  <p>E C B</p>	<p>RVDKV1260A RVDKV1330A2</p>  <p>Anode Cathode</p>	<p>RVDP300DLF</p>  <p>Anode Cathode</p>	<p>MA165TA MA723TA</p>  <p>Anode Cathode</p>																													
<p>MA4100MTA MA4130MTA</p>  <p>Anode Cathode</p>	<p>MA4047MTA MA4051MTA</p>  <p>Anode Cathode</p>	<p>LN250RPXTA</p>  <p>Anode Cathode</p>																															
<p>LN042474PH</p>  <p>LED Anode Cathode</p>	<p>LN051480PH</p>  <p>LED Anode Cathode</p>																																

LCD DISPLAY  
RR 9900 CD



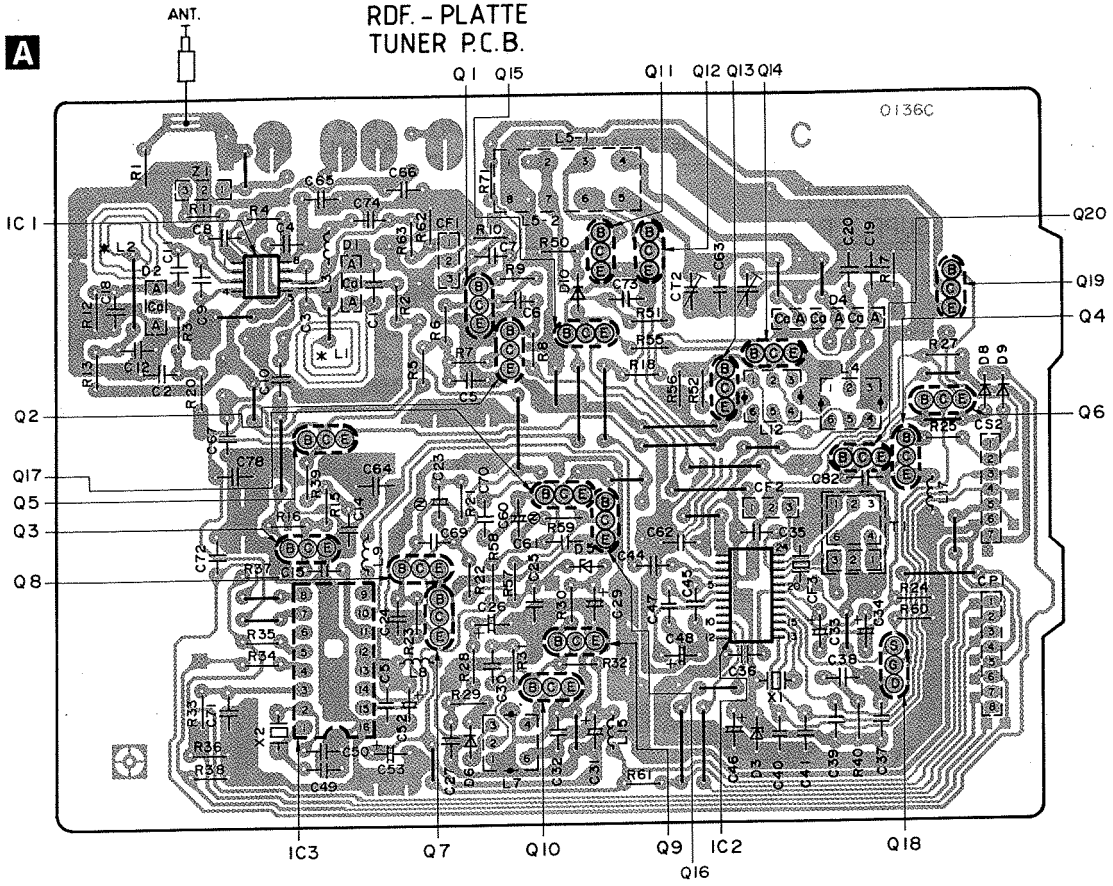
NETZTEIL - PLATTE  
POWER SUPPLY P.C.B.

ACHTUNG  
NETZSPANNUNG  
CAUTION  
RISK OF ELECTRIC SHOCK  
AC VOLTAGE LINE

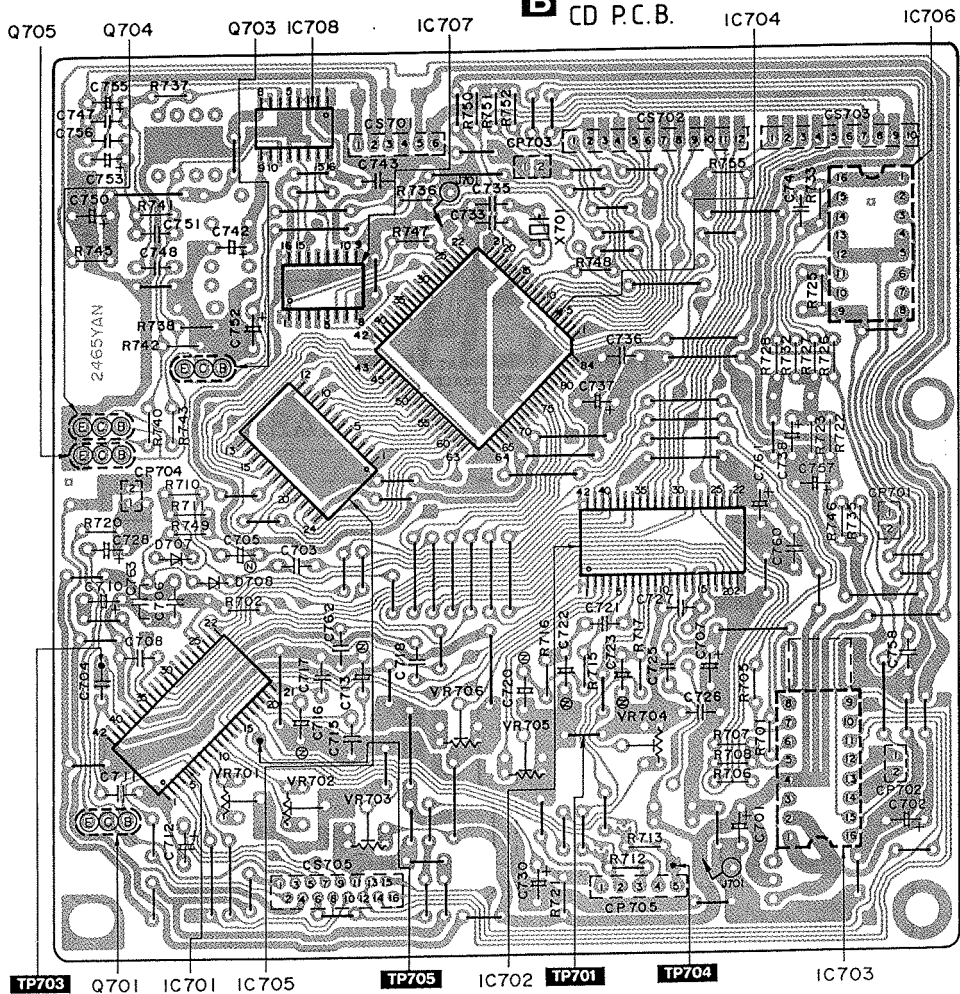


RDF. - PLATTE  
TUNER P.C.B.

**A**

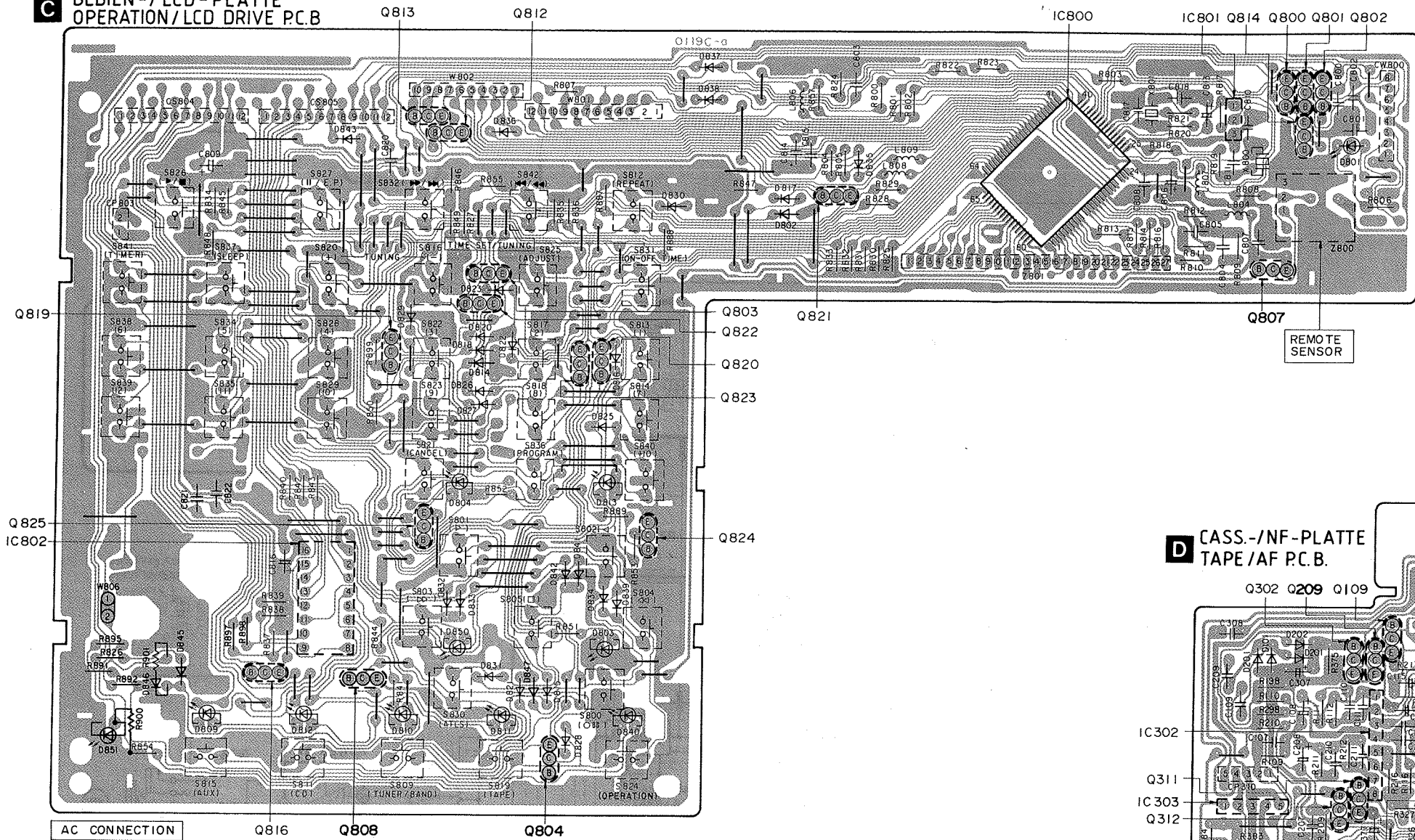


**B** CD - PLATTE  
CD P.C.B.

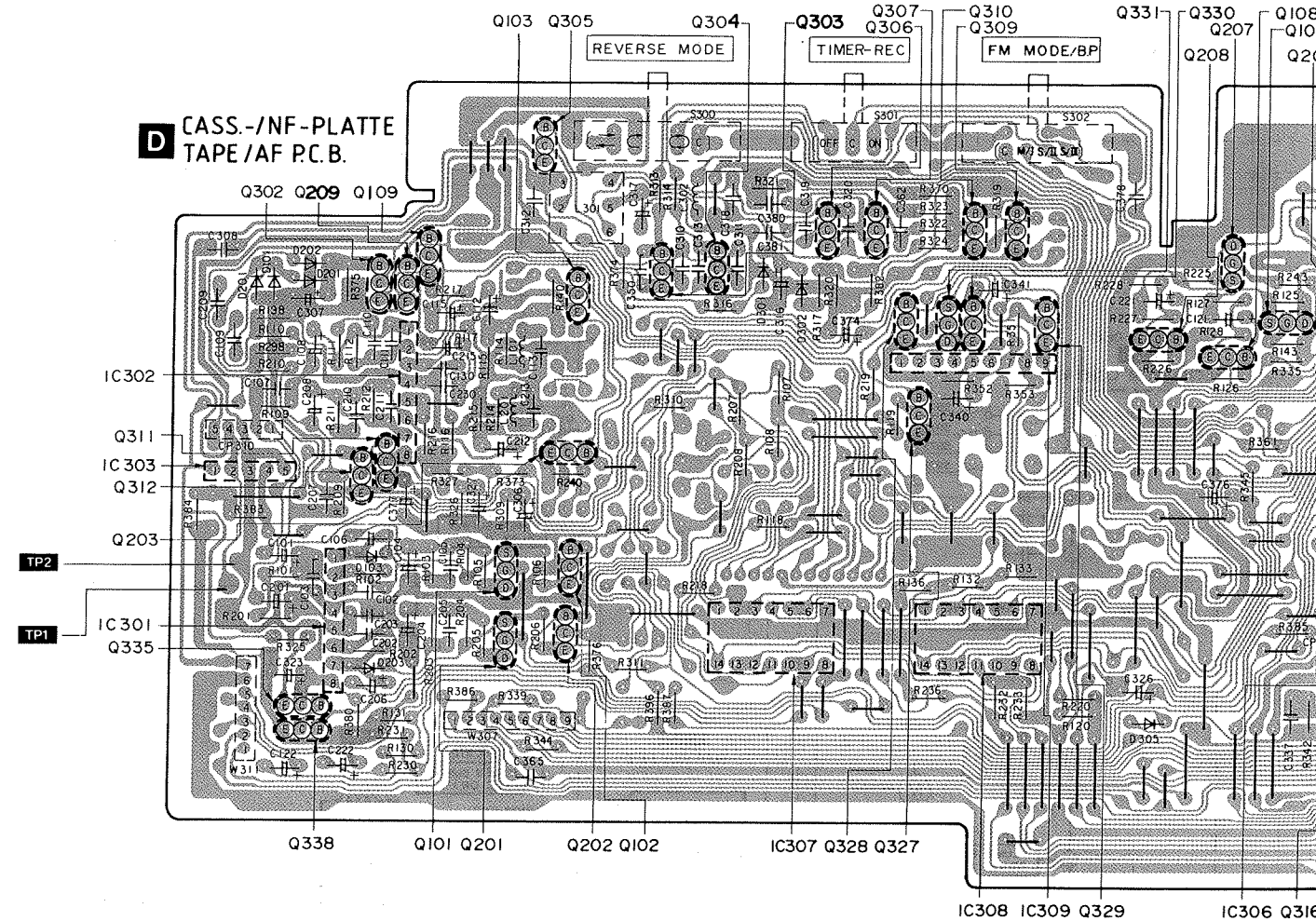




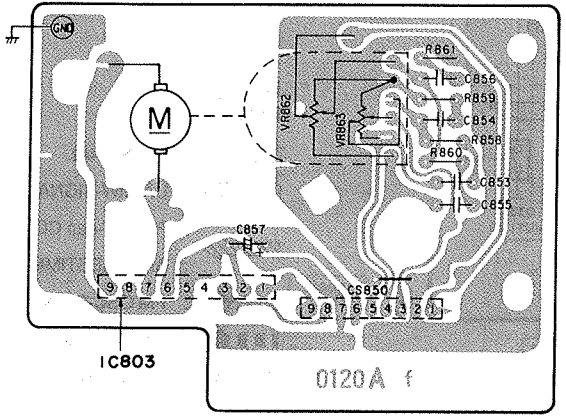
**C** BEDIEN-/LCD-PLATTE  
OPERATION/LCD DRIVE P.C.B.



**D** CASS.-/NF-PLATTE  
TAPE/AF P.C.B.

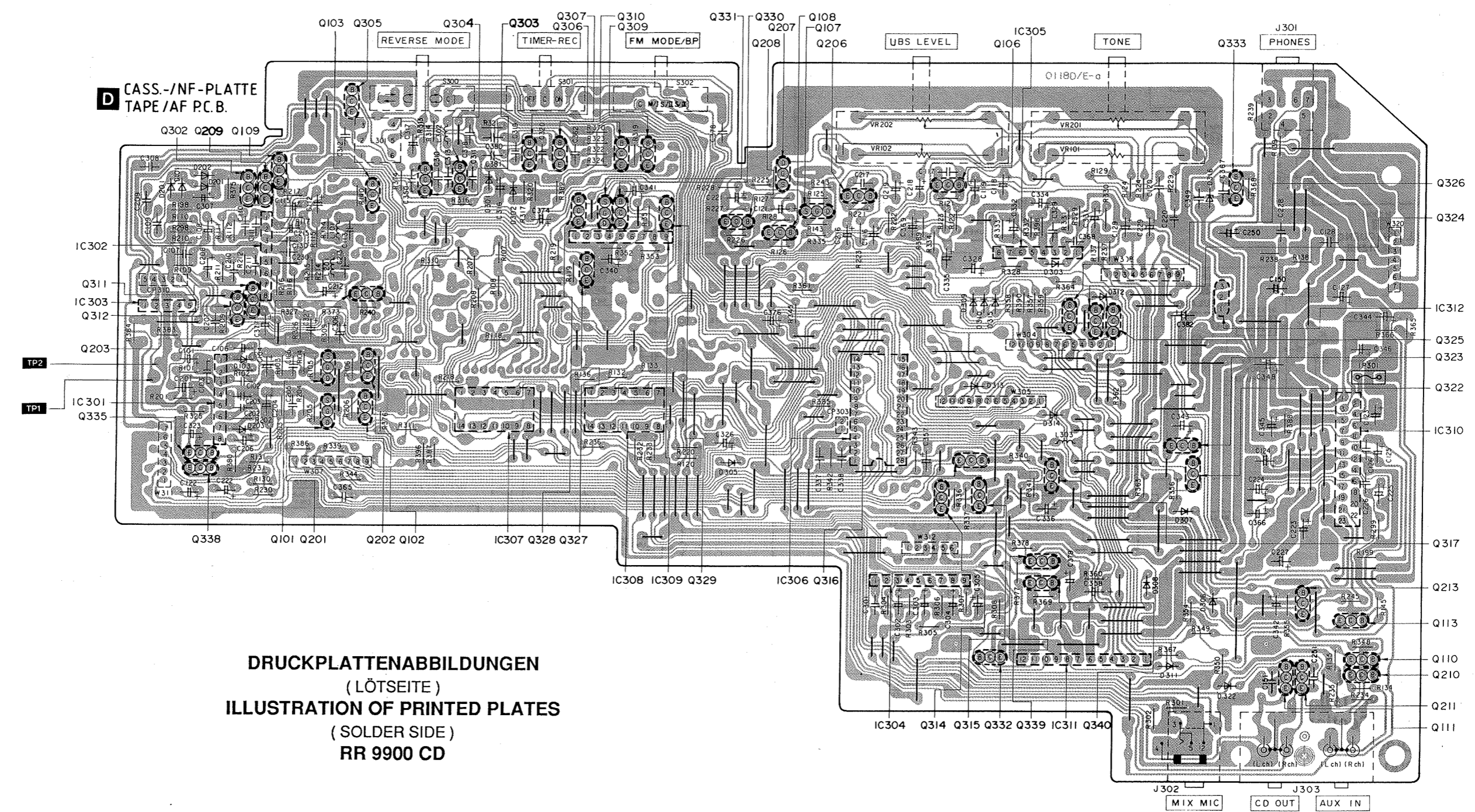
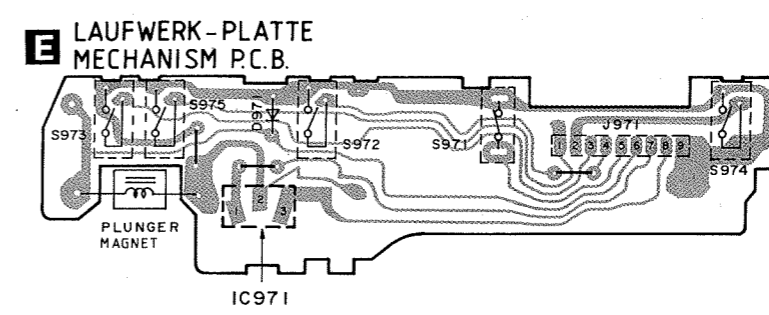
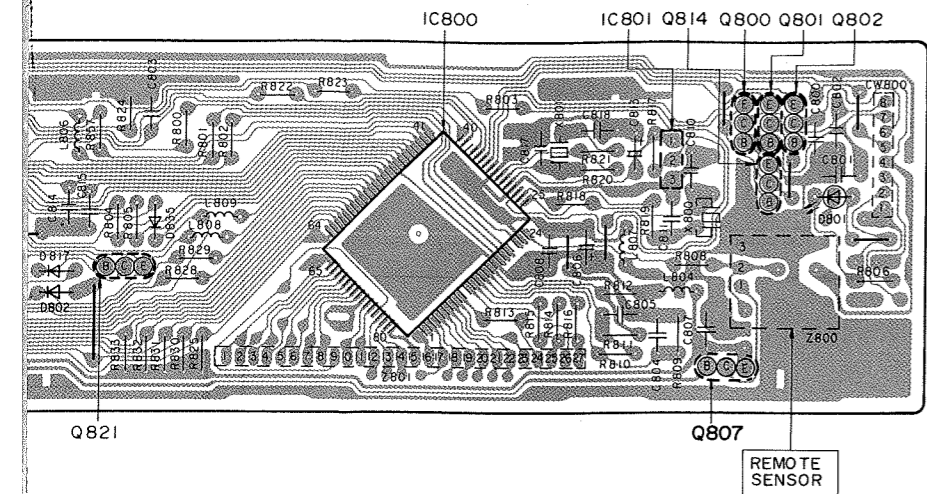


**F** LAUTSTÄRKE-  
REGLER - PLATTE  
VOLUME P.C.B.

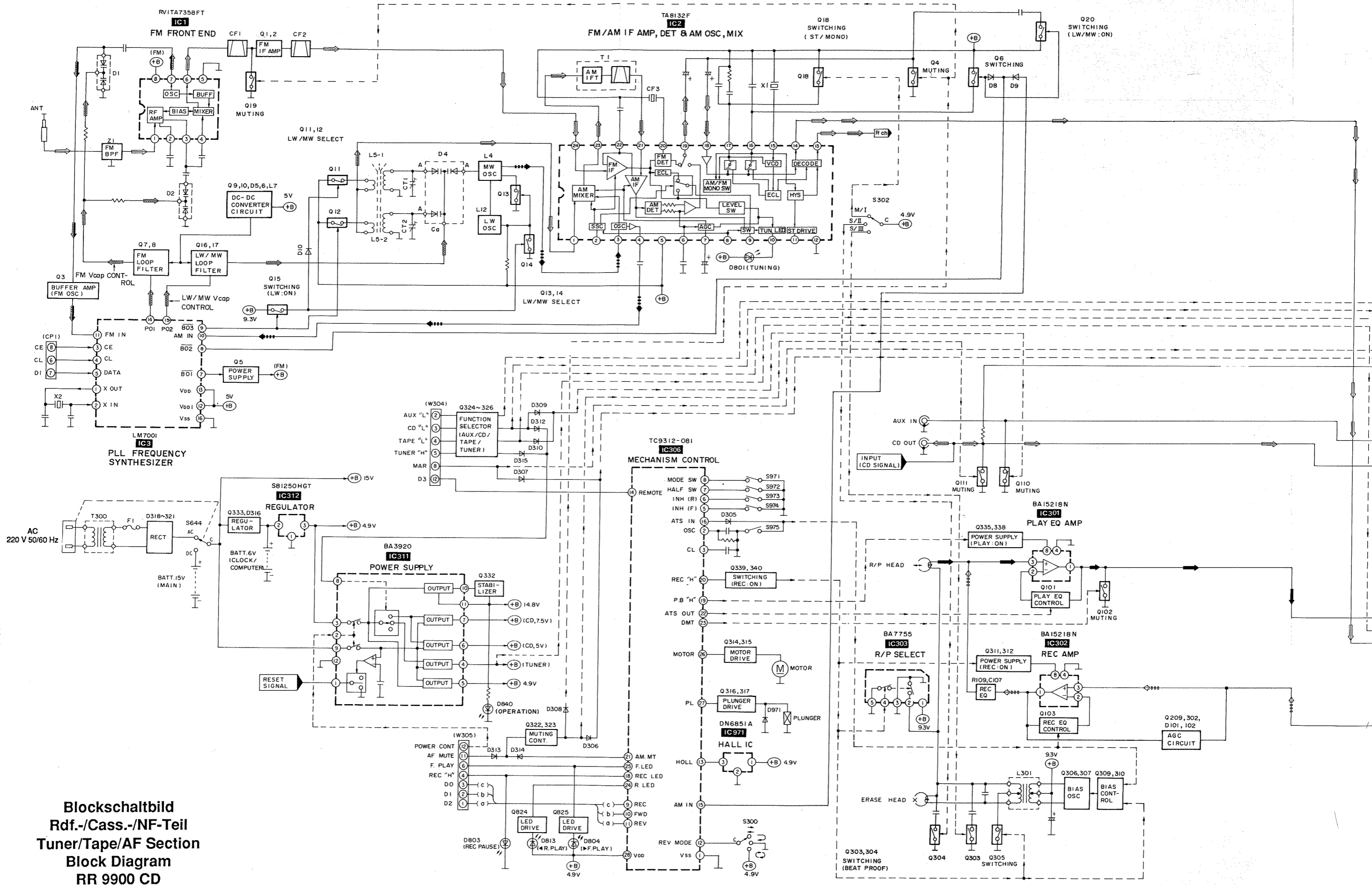


DRUCKPLATTENABBILDUNGEN  
(LÖTSEITE)  
ILLUSTRATION OF PRINTED PLATES  
(SOLDER SIDE)  
RR 9900 CD

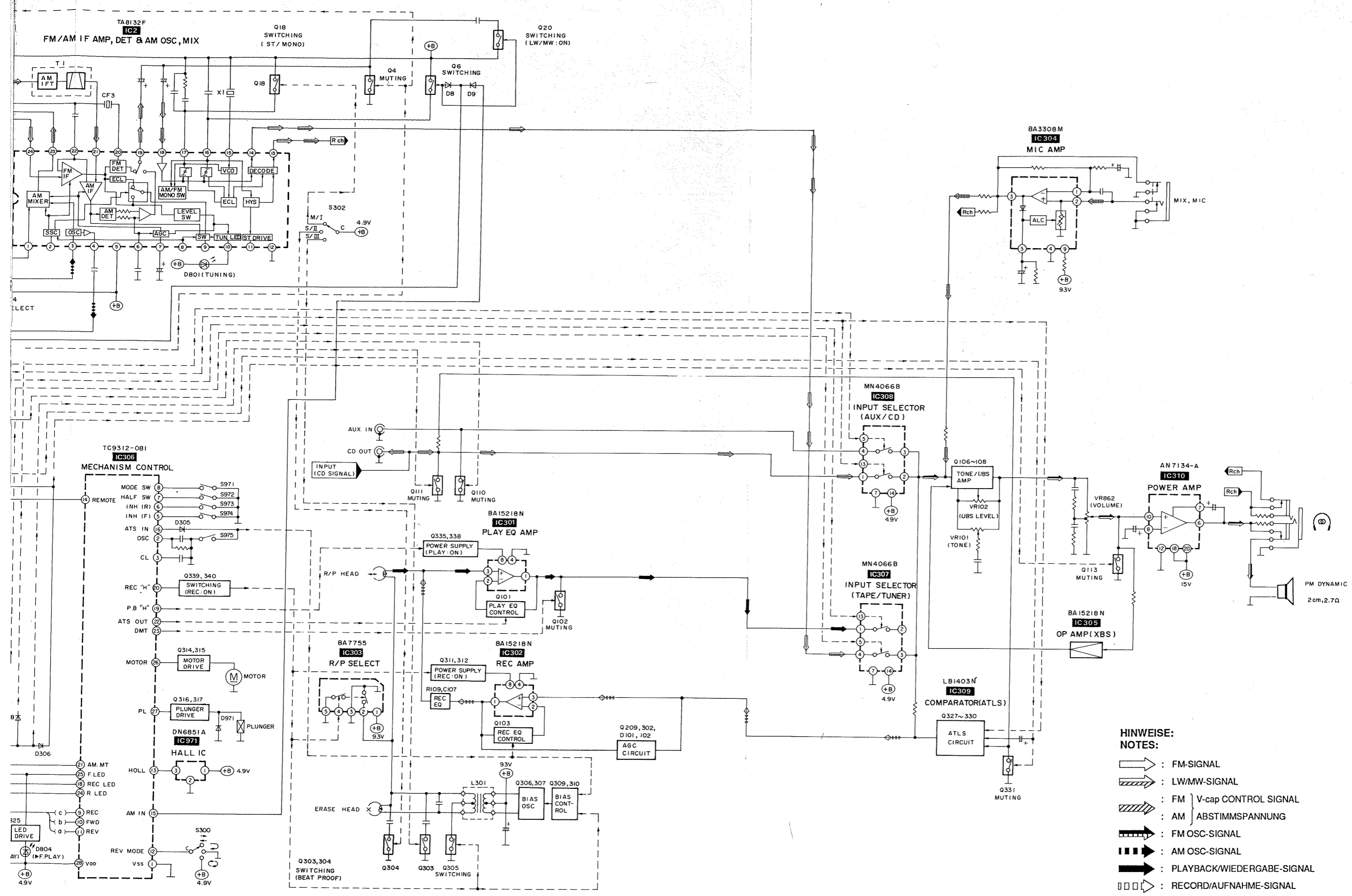




**DRUCKPLATTENABBILDUNGEN**  
(LÖTSEITE)  
**ILLUSTRATION OF PRINTED PLATES**  
(SOLDER SIDE)  
**RR 9900 CD**

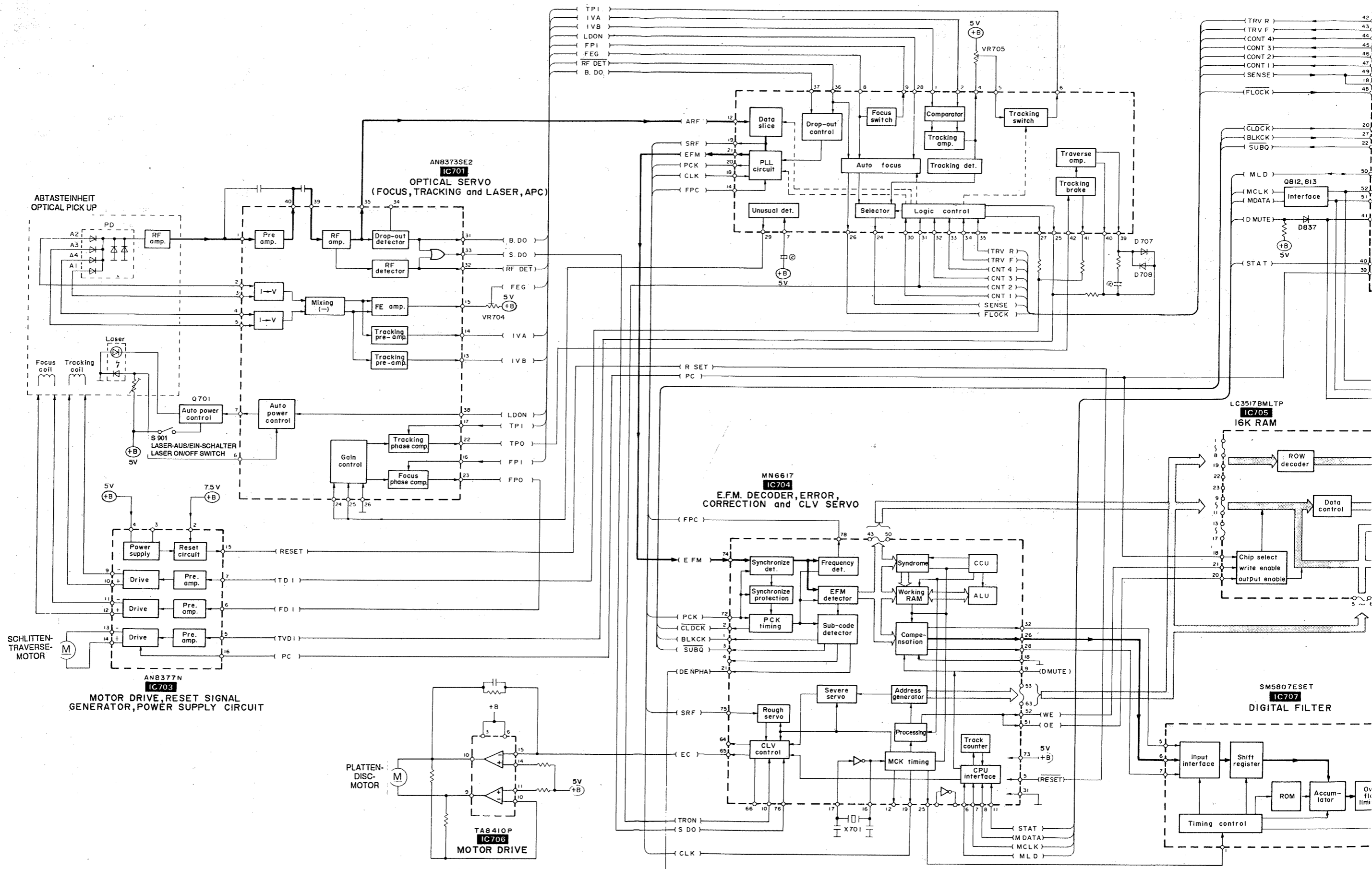


**Blockschaltbild**  
**Rdf.-/Cass.-/NF-Teil**  
**Tuner/Tape/AF Section**  
**Block Diagram**  
**RR 990 CD**



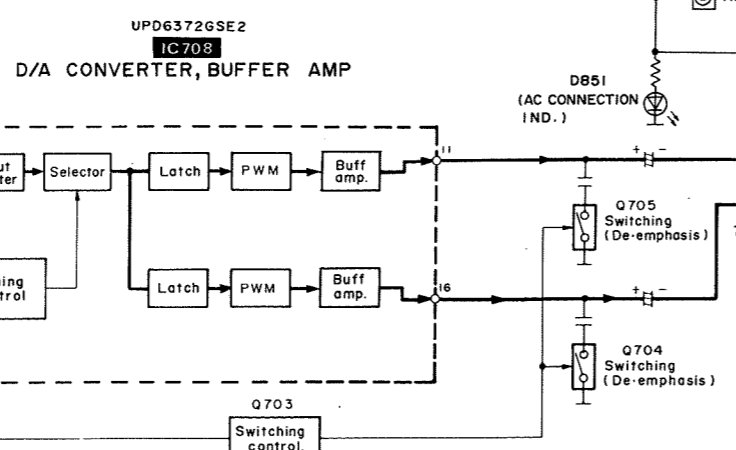
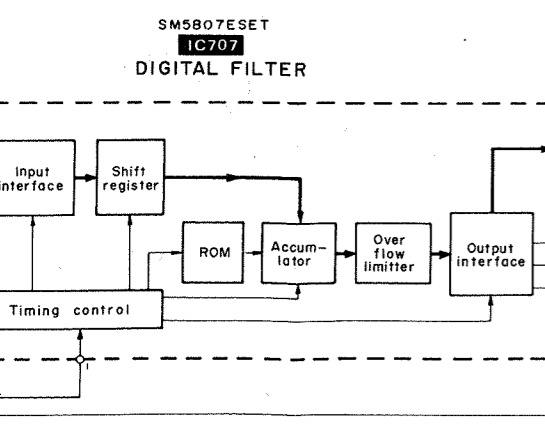
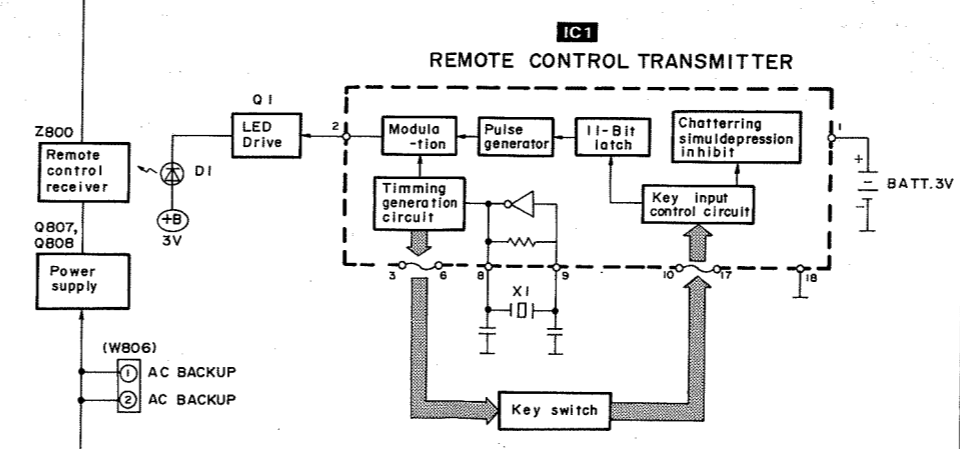
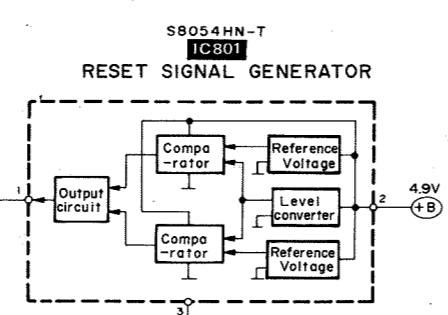
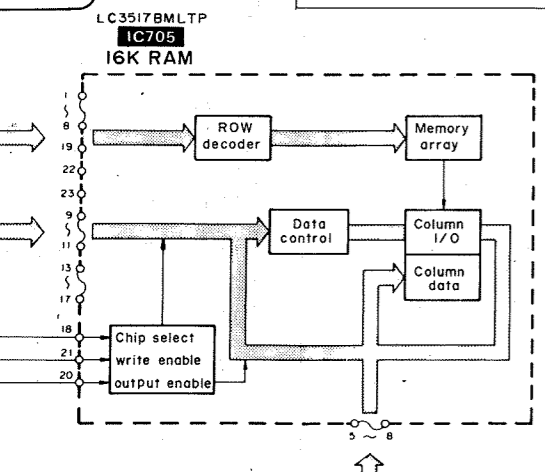
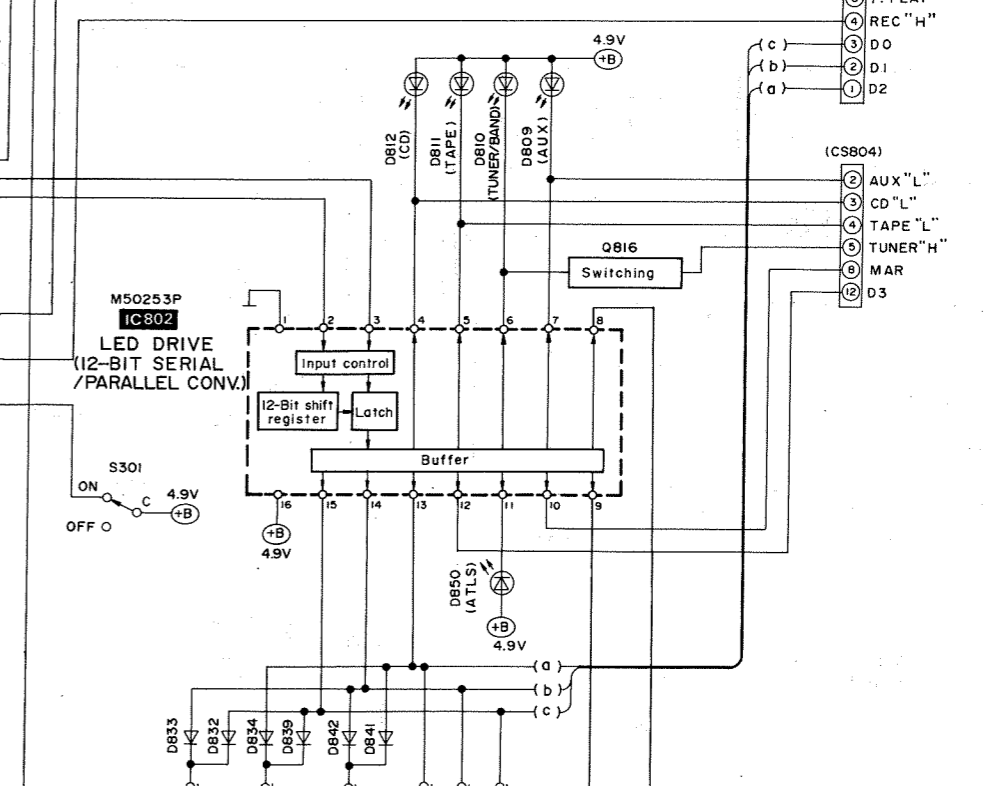
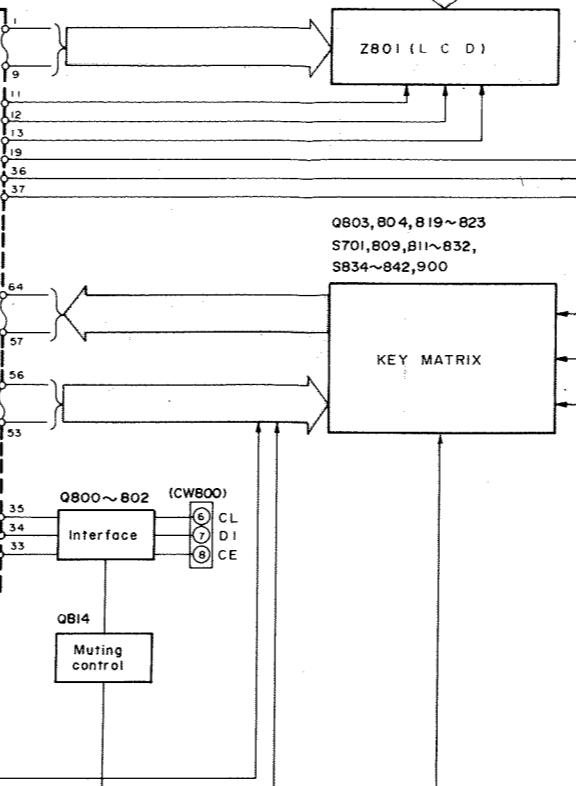
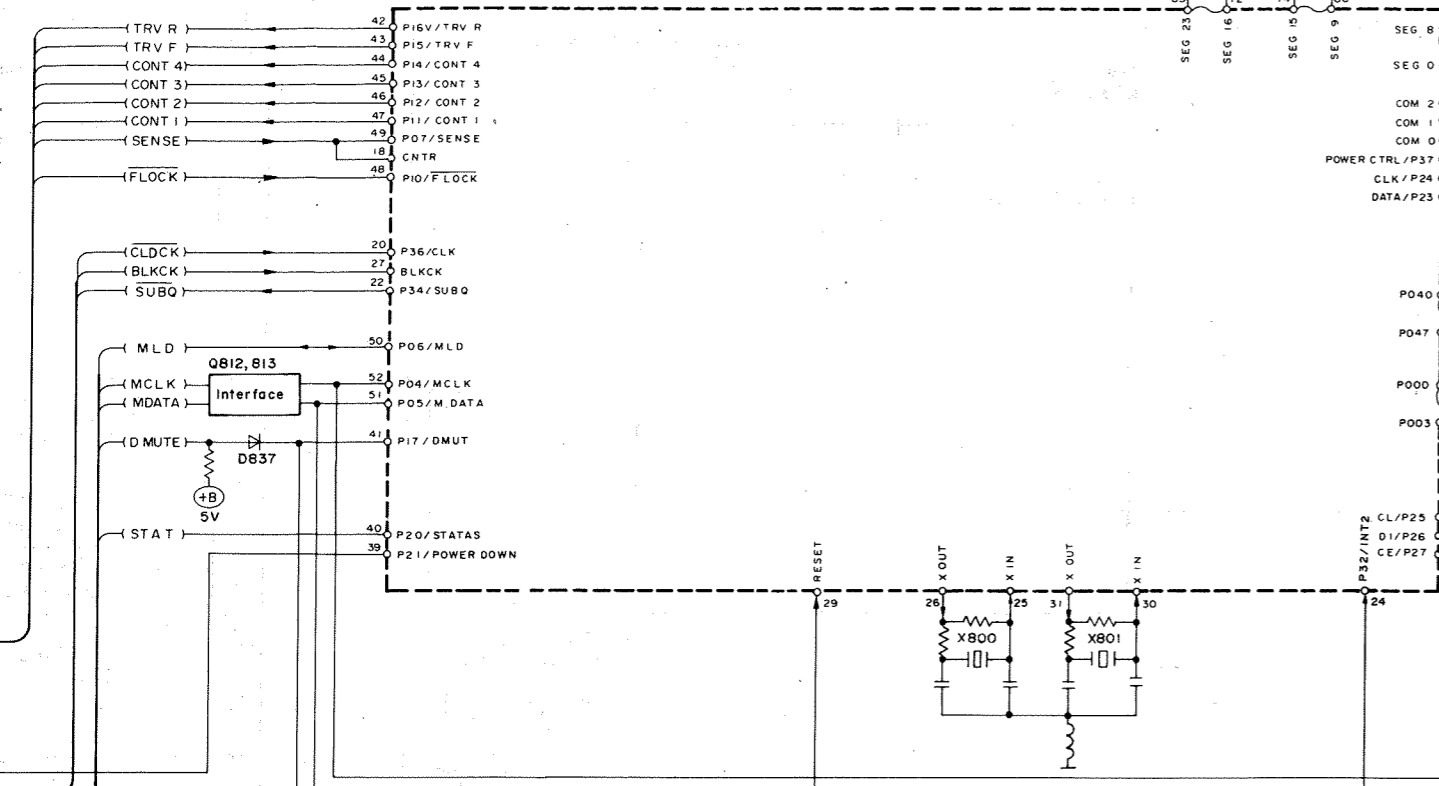
- HINWEISE:**  
**NOTES:**
- : FM-SIGNAL
  - : LW/MW-SIGNAL
  - : FM } V-cap CONTROL SIGNAL
  - : AM } ABSTIMMSpannung
  - : FM OSC-SIGNAL
  - : AM OSC-SIGNAL
  - : PLAYBACK/WIEDERGABE-SIGNAL
  - : RECORD/AUFNAHME-SIGNAL
  - : CD-SIGNAL
  - : MAIN/NF-SIGNAL
  - : MIC-SIGNAL

AN8374SE2  
**IC702**  
 DATA SLICE, PLL, FOCUS, TRACKING and TRAVERSE SERVO



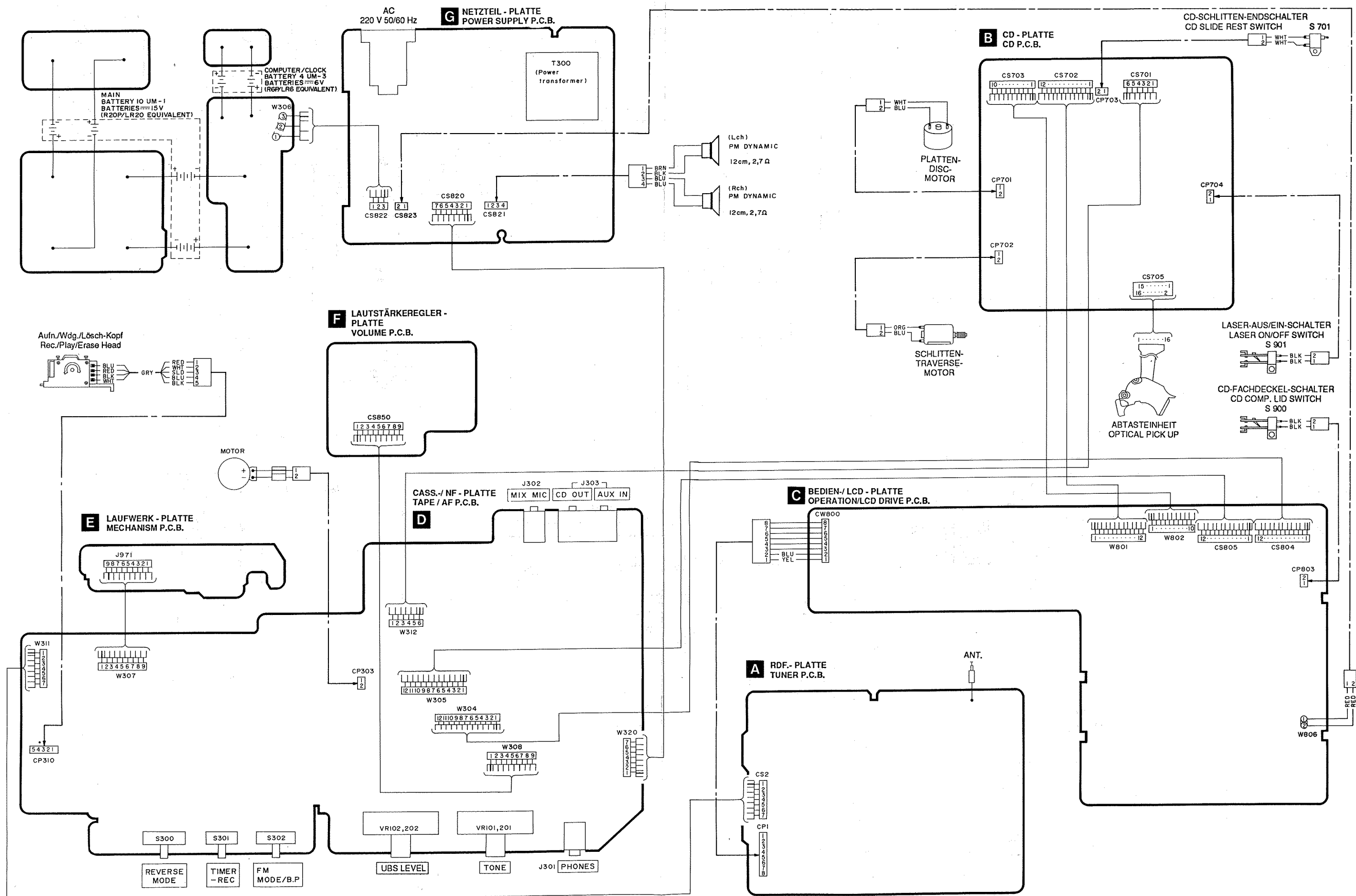


M50932-165FP  
**IC800**  
 SYSTEM CONTROL/LCD DRIVE



Blockschaltbild  
 Bedien-/CD-Teil  
 Block Diagram  
 Operation/CD Section  
 RR 9900 CD





Verdrahtungsplan  
Wiring Diagram  
RR 9900 CD