



**SERVICE MANUAL  
DOCUMENTATION TECHNIQUE  
TECHNISCHE DOKUMENTATION  
DOCUMENTAZIONE TECNICA  
DOCUMENTACION TECNICA**

**THOMSON** AM 3300  
AM 3305

Version (PC\*): A

\*PC: The version code is indicated either in the battery compartment or on the back of the unit - ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC: Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - el código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



**Technical data - Caractéristiques principales  
Technische Daten - Dati tecnici - Características del aparato**

|                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type of set :</b> Cassette radio recorder / compact disc<br><b>Type d'appareil :</b> Combiné radio cassette / CD<br><b>Geräteart :</b> CD-Radio Cassetten Portable<br><b>Tipo d'apparecchio :</b> Insieme radio cassette / CD<br><b>Tipo de aparato :</b> Radio cassette / CD |  |                                                                                                                                                                                                                            |
| <b>Power supply :</b><br><b>Alimentation :</b><br><b>Stromversorgung :</b> 230 V ~<br><b>Alimentazione :</b><br><b>Alimentación :</b>                                                                                                                                            |  | <b>Nominal output power :</b><br><b>Puissance nominale de sortie :</b><br><b>Nennausgangsleistung :</b> 2 x 25 W (Rms)<br><b>potenza nominale di uscita :</b> 2 x 75 W (Music.)<br><b>Potencia nominal de salida :</b>     |
| <b>FM - MF :</b> 87,5 - 108 MHz<br><b>MW - PO :</b> 520 - 1620 kHz<br><b>LW - GO :</b> 150 - 283 kHz                                                                                                                                                                             |  | <b>Sensitivity :</b><br><b>Sensibilité :</b> FM - MF : 8 µV (S/N = 26 dB)<br><b>Empfindlichkeit :</b> MW - PO : 1000 µV/m (S/N = 20 dB)<br><b>Sensibilità :</b> LW - GO : 2500 µV/m (S/N = 20 dB)<br><b>Sensibilidad :</b> |
| <b>Frequency response :</b><br><b>Courbe de réponse :</b> 200 Hz - 6 kHz<br><b>Frequenzgang :</b> (+5 / - 5 dB)<br><b>Curva di risposta :</b><br><b>Curva de respuesta :</b>                                                                                                     |  | <b>Signal to noise ratio :</b><br><b>Rapport signal / bruit :</b><br><b>Geräuschspannungsabstand :</b> 42 dB<br><b>Rapporto segnale / disturbo :</b><br><b>Relación señal / ruido :</b>                                    |
| <b>Wow and flutter :</b><br><b>Fluctuations :</b> 0,3 %<br><b>Gleichlauf :</b><br><b>Fluttuazioni :</b><br><b>Fluctuaciones :</b>                                                                                                                                                |  |                                                                                                                                                                                                                            |
| <b>Disc rotation speed :</b><br><b>Vitesse de rotation du disque :</b> 200 → 500 tr/m<br><b>CD-Drehgeschwindigkeit :</b><br><b>Velocità di rotazione del disco :</b><br><b>Velocidad de rotación del disco :</b>                                                                 |  | <b>Frequency response :</b><br><b>Courbe de réponse :</b> 200 Hz - 20kHz<br><b>Frequenzgang :</b> (0 dB)<br><b>Curva di risposta :</b><br><b>Curva de respuesta :</b>                                                      |
| <b>DAD Stereo separation :</b><br><b>Diaphonie :</b> 40 dB<br><b>Diaphonia :</b><br><b>Diafonia :</b>                                                                                                                                                                            |  | <b>Signal to noise ratio :</b><br><b>Rapport signal / bruit :</b><br><b>Geräuschspannungsabstand :</b> 60 dB<br><b>Rapporto segnale / disturbo :</b><br><b>Relación señal / ruido :</b>                                    |



**WARNING :** Before servicing this chassis read the safety recommendations.  
**ATTENTION :** Avant toute intervention sur ce châssis, lire les recommandations de sécurité.  
**ACHTUNG :** Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.  
**ATTENZIONE :** Prima di intervenire sullo chassis, leggere le norme di sicurezza.  
**IMPORTANTE :** Antes de cualquier intervención, leer las recomendaciones de seguridad.

**Code : 351 644 80 - 08/01 / 4,1M - CRKD2531 Print.**



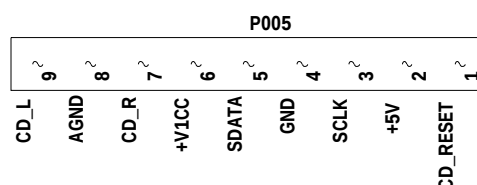
CLASS 1 LASER PRODUCT  
APPAREIL A LASER DE CLASSE 1  
LASER KLASSE 1  
APPARECCHIO CON LASER DI CLASSE 1  
APARATO CON LASER DE CLASE 1

|                                   |                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DANGER :</b>                   | Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.                                                   |
| <b>ATTENTION :</b>                | Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.                                                                      |
| <b>VORSICHT BEI REPARATUREN :</b> | Bei geöffneter Schublade und Defekt der Sicherheitsvorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen. |
| <b>ATTENZIONE :</b>               | Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.                                                                   |
| <b>IMPORTANTE :</b>               | El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.                                                              |

## DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

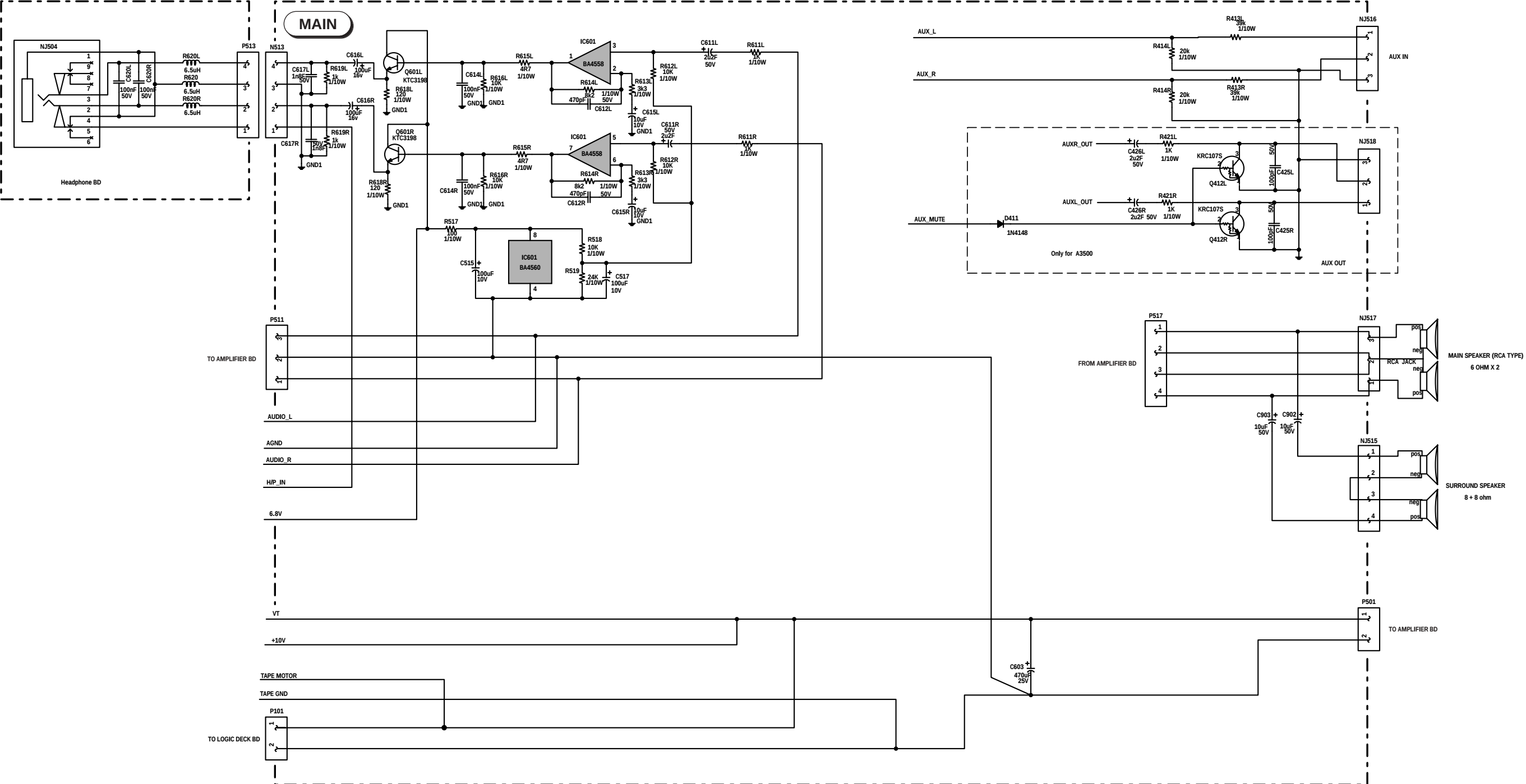
The complete Digital Processing Module is available from A.S.S. under Part Number :  
En SAV, l'ensemble du module traitement digital est géré sous le code :  
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :  
Il codice del modulo completo di elaborazione digitale è :  
En postventa, el modulo completo tratamiento digital lleva el código :

106 638 90



[illegible]

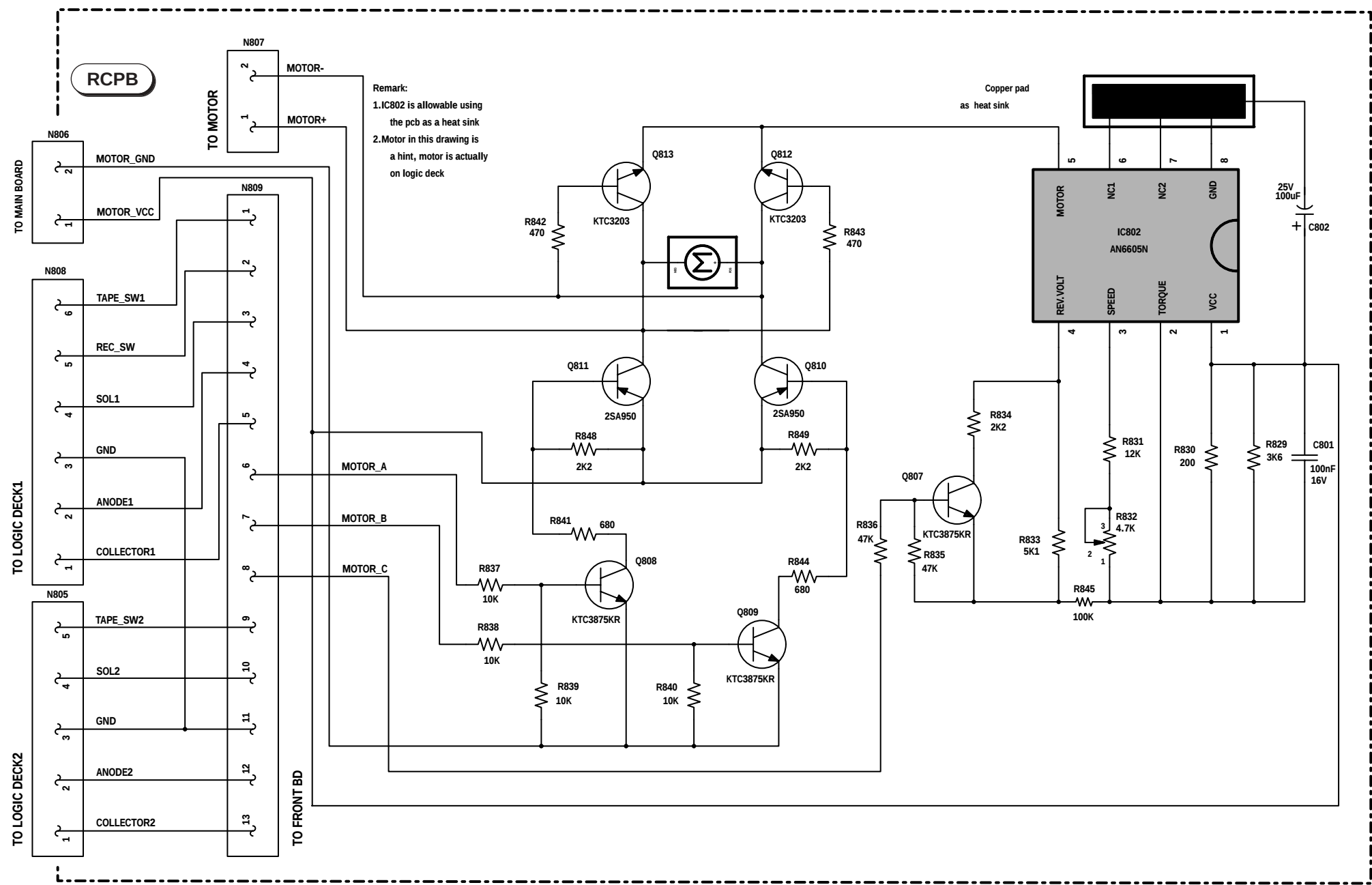
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD GRUNDPLATTE - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL  
(INPUT/OUTPUT PART)



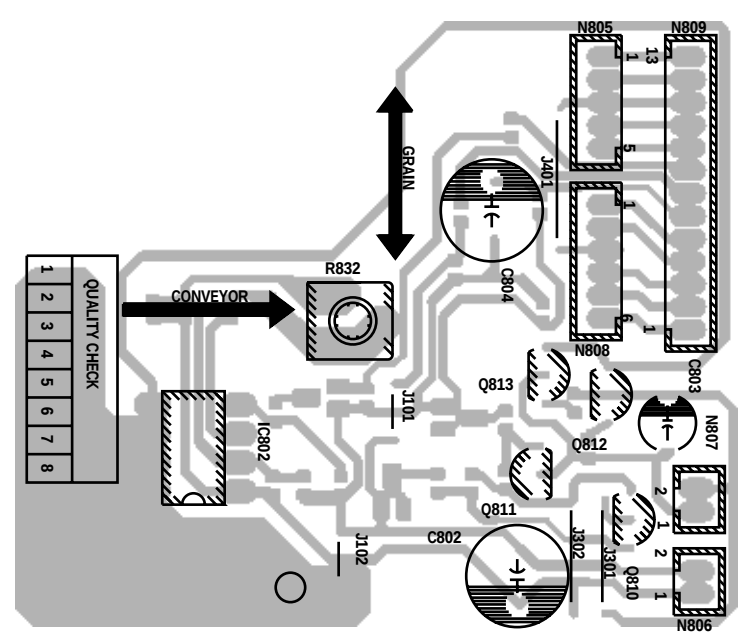


| IC300 | PLAY A | PLAY B | PLAY/REC | EXT/REC |    | PLAY A | PLAY B | PLAY/REC | EXT/REC |
|-------|--------|--------|----------|---------|----|--------|--------|----------|---------|
| 1     | 0      | 0      | 0        | 0       | 13 | 6,8    | 6,8    | 2,1      | 2,1     |
| 2     | 0,7    | 0,7    | 0,7      | 0,7     | 14 | 0      | 0      | 0,7      | 0,7     |
| 3     | 3,9    | 3,9    | 3,9      | 3,9     | 15 | 0      | 0      | 3,8      | 3,8     |
| 4     | 3,9    | 3,9    | 3,9      | 3,9     | 16 | 0      | 0      | 3,2      | 3,2     |
| 5     | 3,2    | 3,2    | 3,2      | 3,2     | 17 | 0      | 0      | 2,8      | 2,8     |
| 6     | 0      | 2,8    | 0        | 0       | 18 | 0      | 0      | 0        | 0       |
| 7     | 0      | 0      | 0        | 0       | 19 | 0,2    | 0,2    | 3,2      | 3,2     |
| 8     | 0,1    | 0,1    | 0,1      | 0,1     | 20 | 3,1    | 3,1    | 3,2      | 3,2     |
| 9     | 0      | 0      | 0        | 0       | 21 | 3,8    | 3,8    | 1,4      | 0       |
| 10    | 0      | 1,4    | 0        | 0       | 22 | 0,7    | 0,7    | 3,9      | 3,9     |
| 11    | 4,9    | 4,9    | 4,9      | 4,9     | 23 | 0      | 0      | 4,9      | 4,9     |
| 12    | 0      | 0      | 0        | 0       | 24 | 0      | 0      | 0        | 0       |

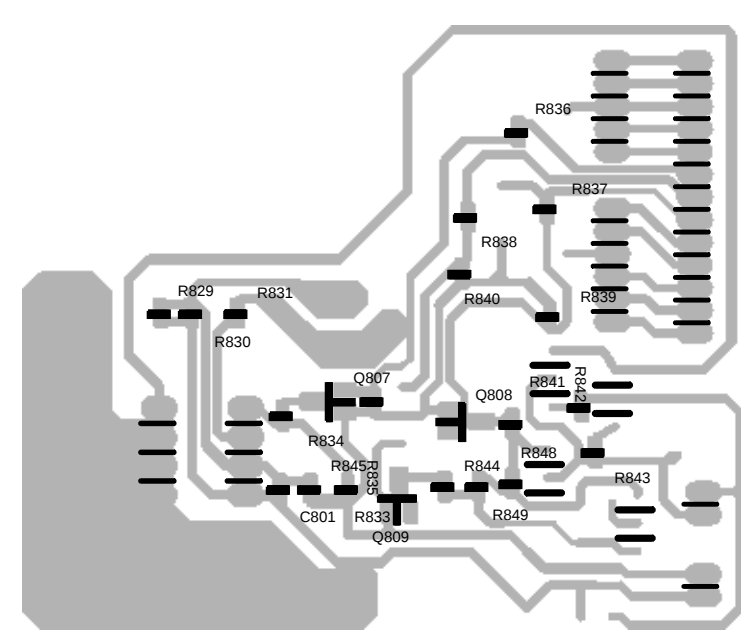
TAPE SCHEMATIC DIAGRAM - SCHEMA PLATINE CASSETTES - SCHALTBILD RECORDER - SCHEMA PIASTRA DI CASSETTE - ESQUEMA GRABADORES



Tape P.C.B.  
Platine cassettes  
Ltpl. Recorder  
Piastra di cassette  
Platina grabadores

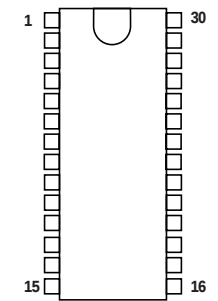
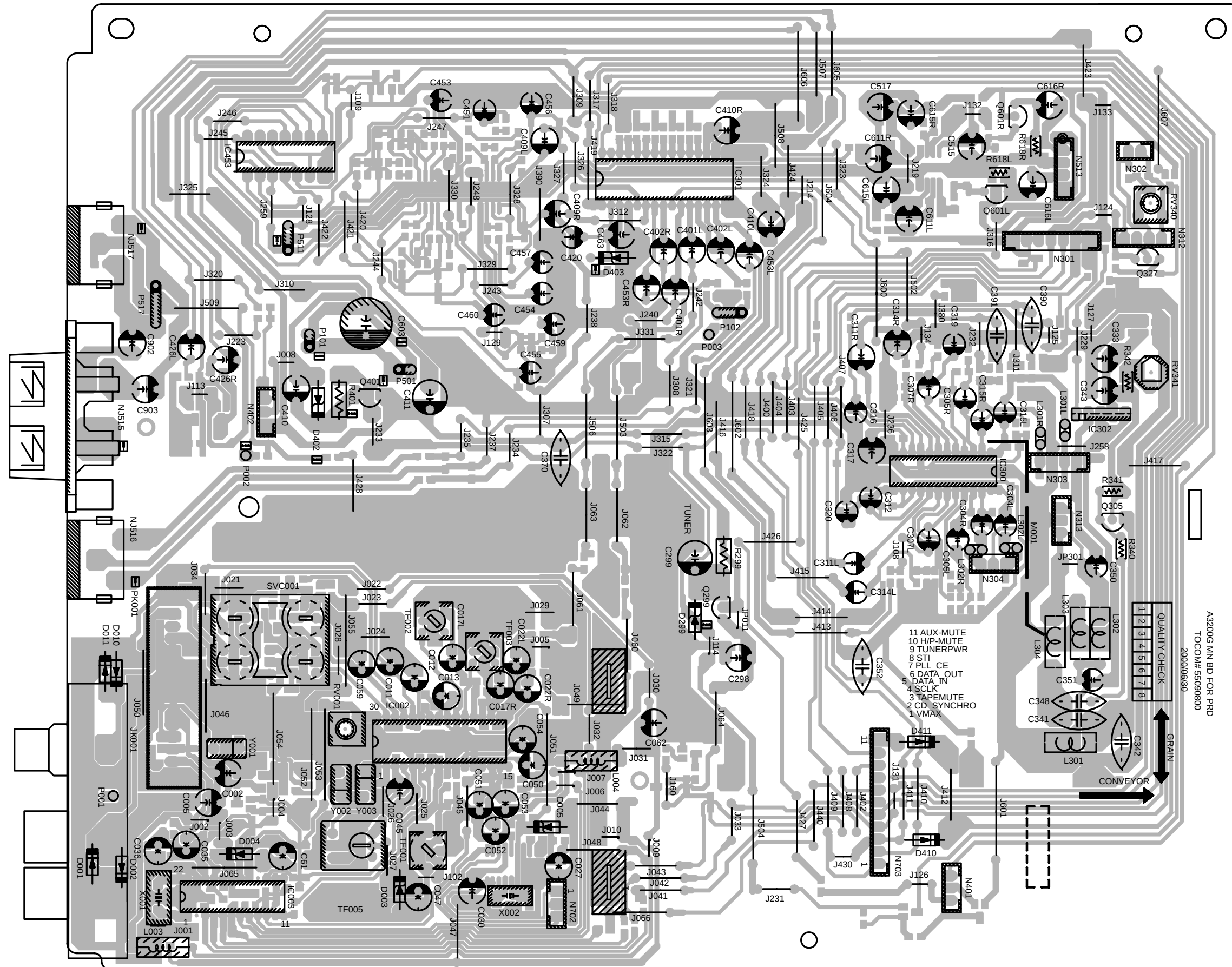


Component side  
Côté composants  
Bestückungsseite  
Lato componenti  
Lado componentes

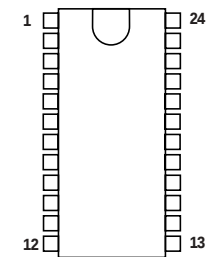


Solder side  
Côté soudure  
Lôtseite  
Lato saldature  
Lado del cobre

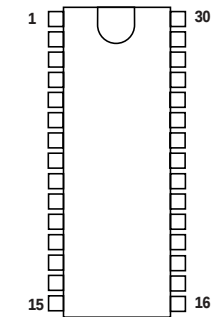
|                           |                  |
|---------------------------|------------------|
| <b>Main P.C.B.</b>        | Component side   |
| <b>Platine principale</b> | Côté composants  |
| <b>Grundplatte</b>        | Bestückungsseite |
| <b>Piastra principale</b> | Lato componenti  |
| <b>Platina principal</b>  | Lado componentes |



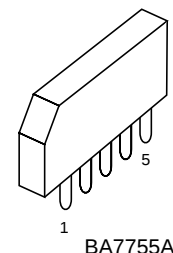
LA1837



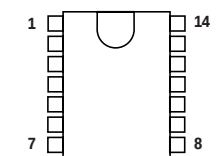
AN7348K



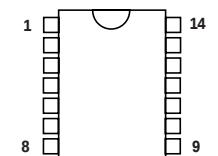
TDA 7439



BA7755A



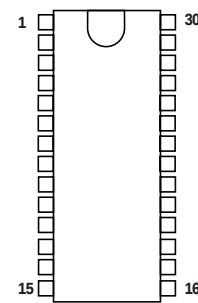
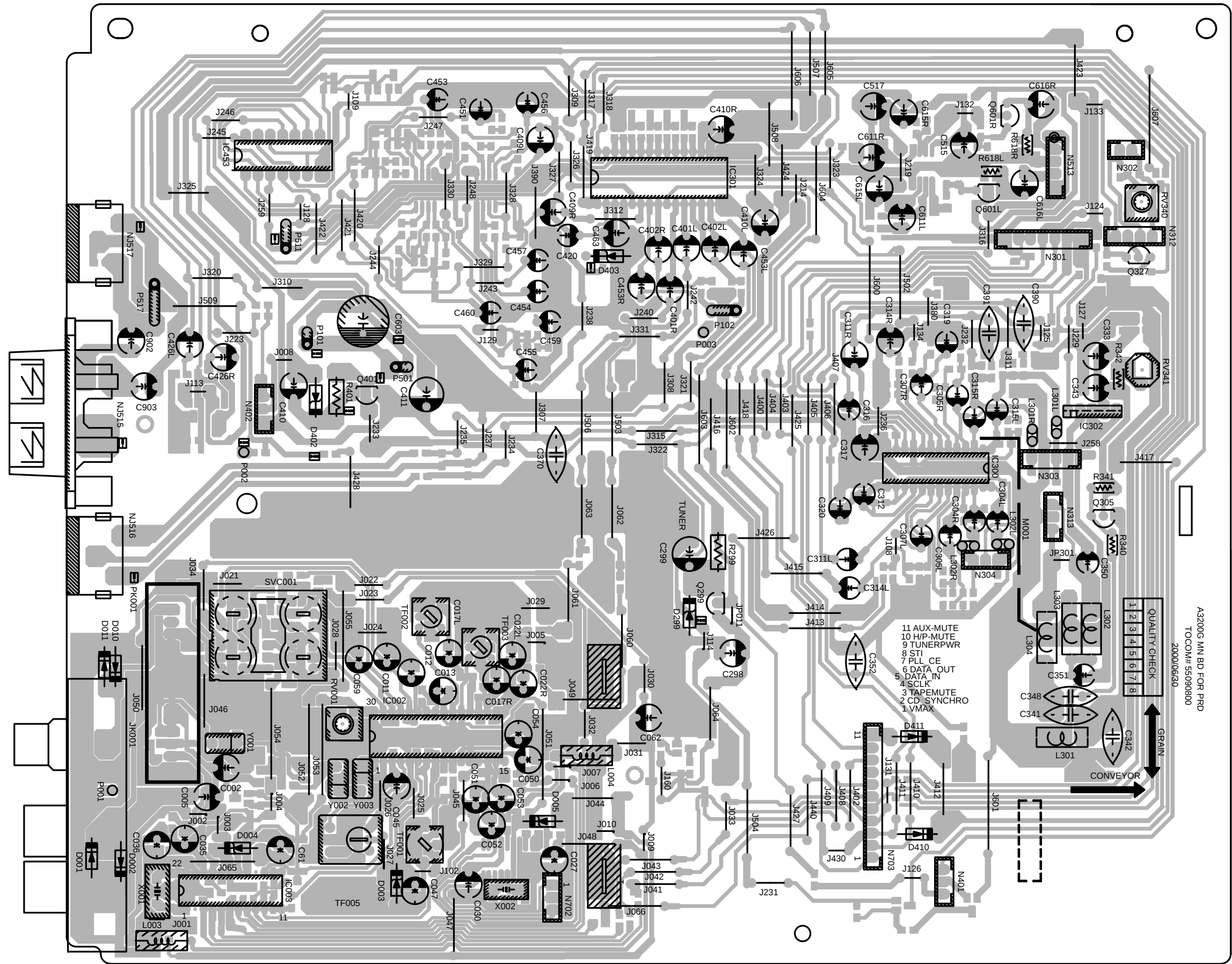
BU4066BC



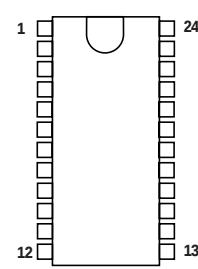
MC1466BCP

Main P.C.B.  
Platine principale  
Grundplatte  
Piastra principale  
Platina principal

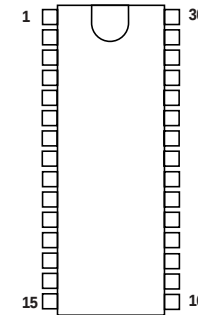
Component side  
Côté composants  
Bestückungsseite  
Lato componenti  
Lado componentes



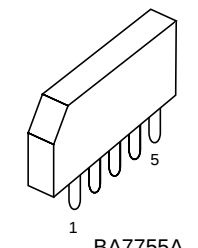
LA1837



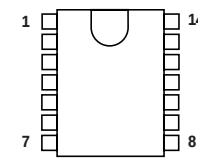
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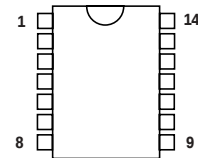
TDA 7439



BA7755A

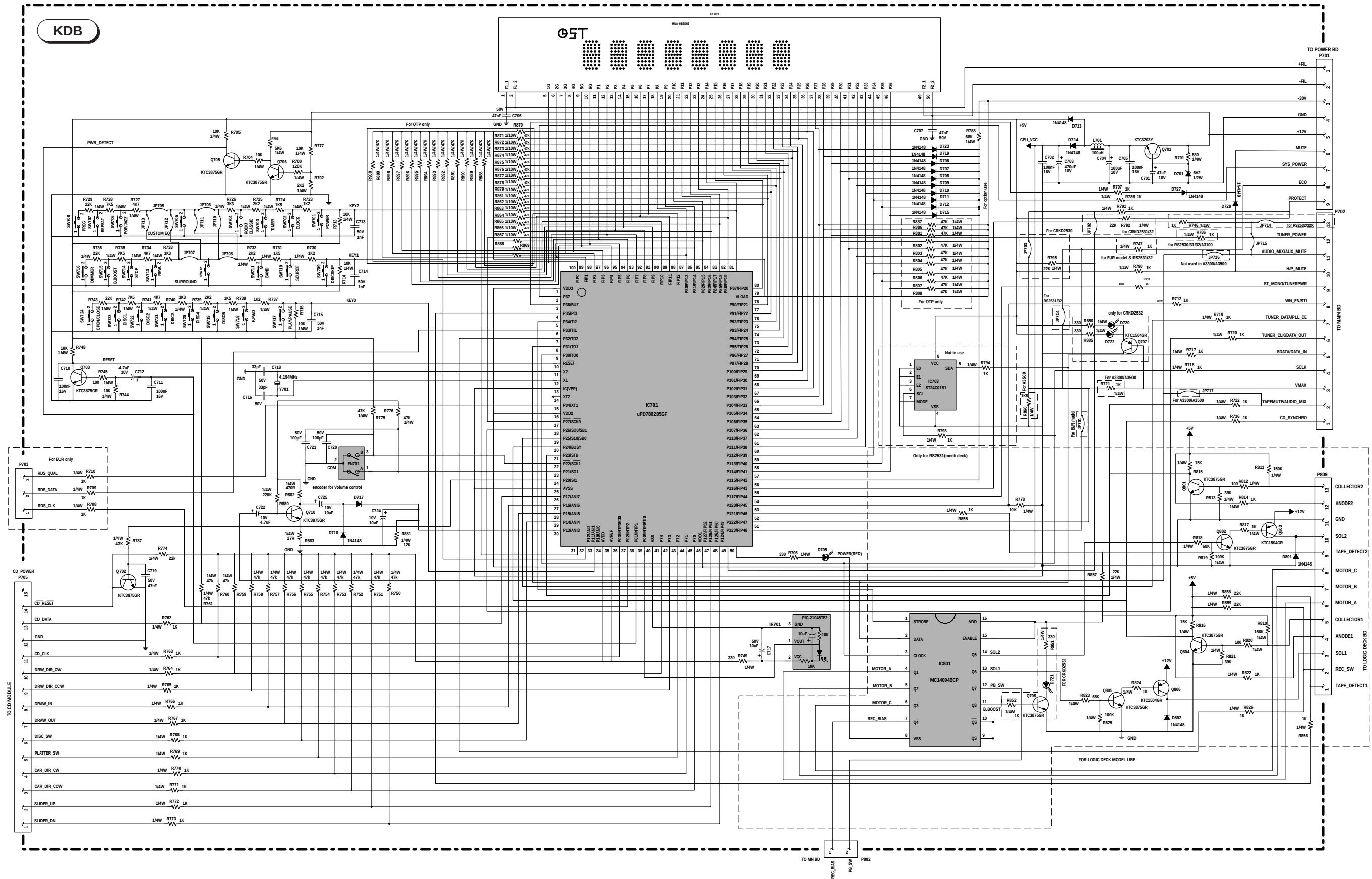


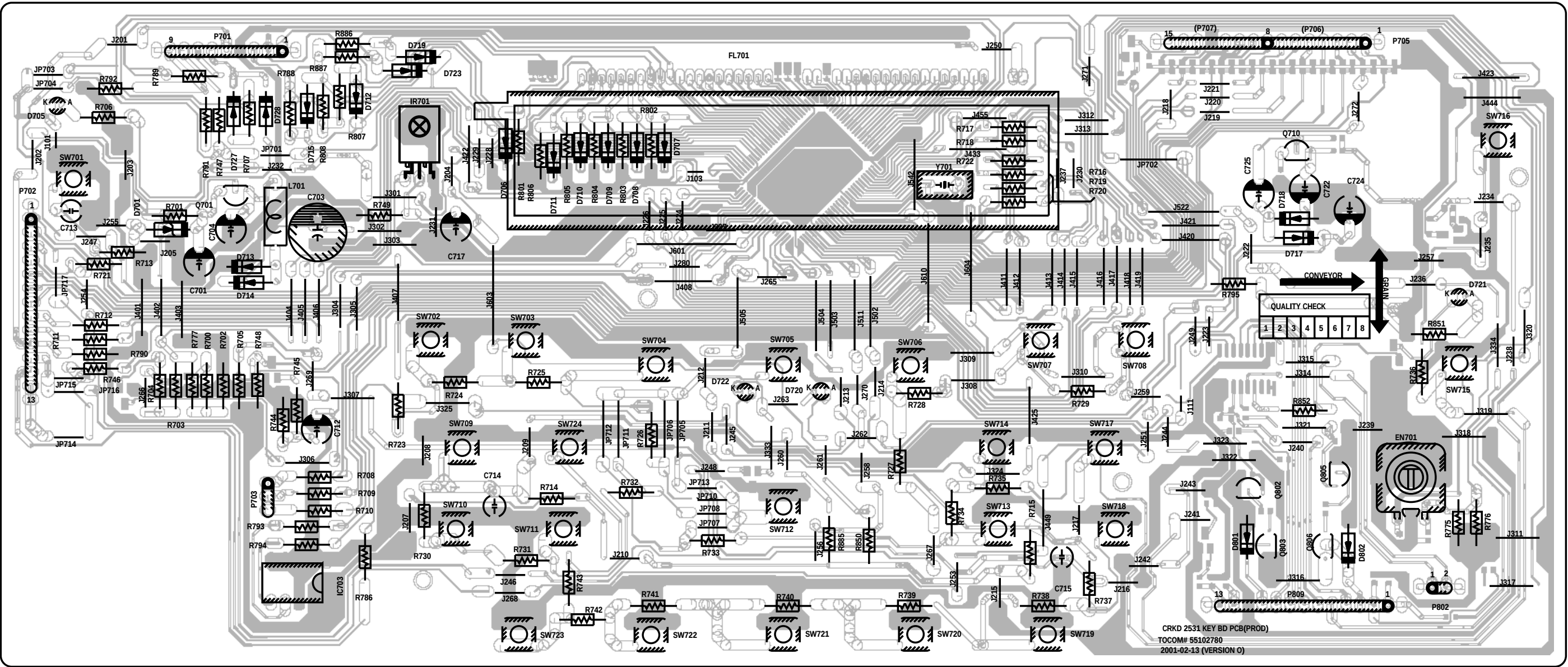
BU4066BC



MC1466BCP

CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



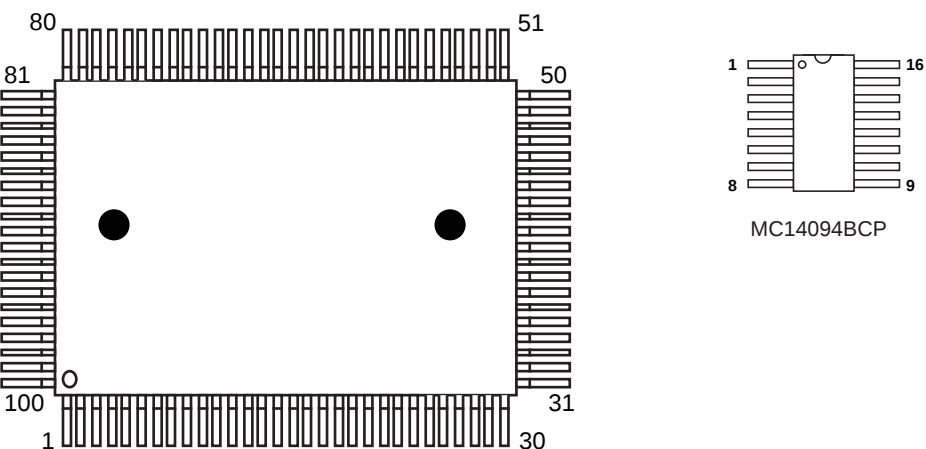


| Comp. Name | P702                | JP703 & R795 | JP704 | R722 & R716 | R721 | JP701 | JP714 | JP715 | JP716 | R746 | R747 | R786 | JP702 & R792 | JP717 |
|------------|---------------------|--------------|-------|-------------|------|-------|-------|-------|-------|------|------|------|--------------|-------|
| Model      |                     |              |       |             |      |       |       |       |       |      |      |      |              |       |
| A3100      | 9 pins (P4 to P12)  | ✓            | X     | X           | X    | ✓     | X     | X     | ✓     | X    | ✓    | ✓    | X            | X     |
| A3100G     | 8 pins (P4 to P11)  | ✓            | X     | X           | X    | ✓     | X     | X     | ✓     | X    | ✓    | X    | X            | X     |
| A3300      | 9 pins (P2 to P10)  | X            | X     | X           | ✓    | ✓     | X     | X     | X     | X    | ✓    | X    | ✓            | ✓     |
| A3500      | 10 pins (P2 to P11) | X            | X     | X           | ✓    | ✓     | X     | ✓     | X     | ✓    | ✓    | X    | ✓            | ✓     |

| 1: HAVE DIODE<br>0: NO DIODE |          | VMAX | LOCATION   |      | Function | D713 Model | Magic Demo (For logic deck model) |
|------------------------------|----------|------|------------|------|----------|------------|-----------------------------------|
| MODEL                        | LOCATION | D706 | LOCATION   | D723 |          |            |                                   |
| A3100                        |          | 0    | Bass Boost | 0    |          | 0          | A3100                             |
| A3300<br>A3500               |          | 1    | Sub-woofer | 1    |          | 1          | A3300<br>A3500                    |

| 1: HAVE DIODE<br>0: NO DIODE |          |      |      |          |
|------------------------------|----------|------|------|----------|
| D707                         | D708     | D709 | D710 | D711     |
| 9K/10K                       | 50K/200K | RDS  | LW   | 24/12HRS |

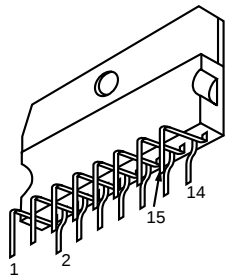
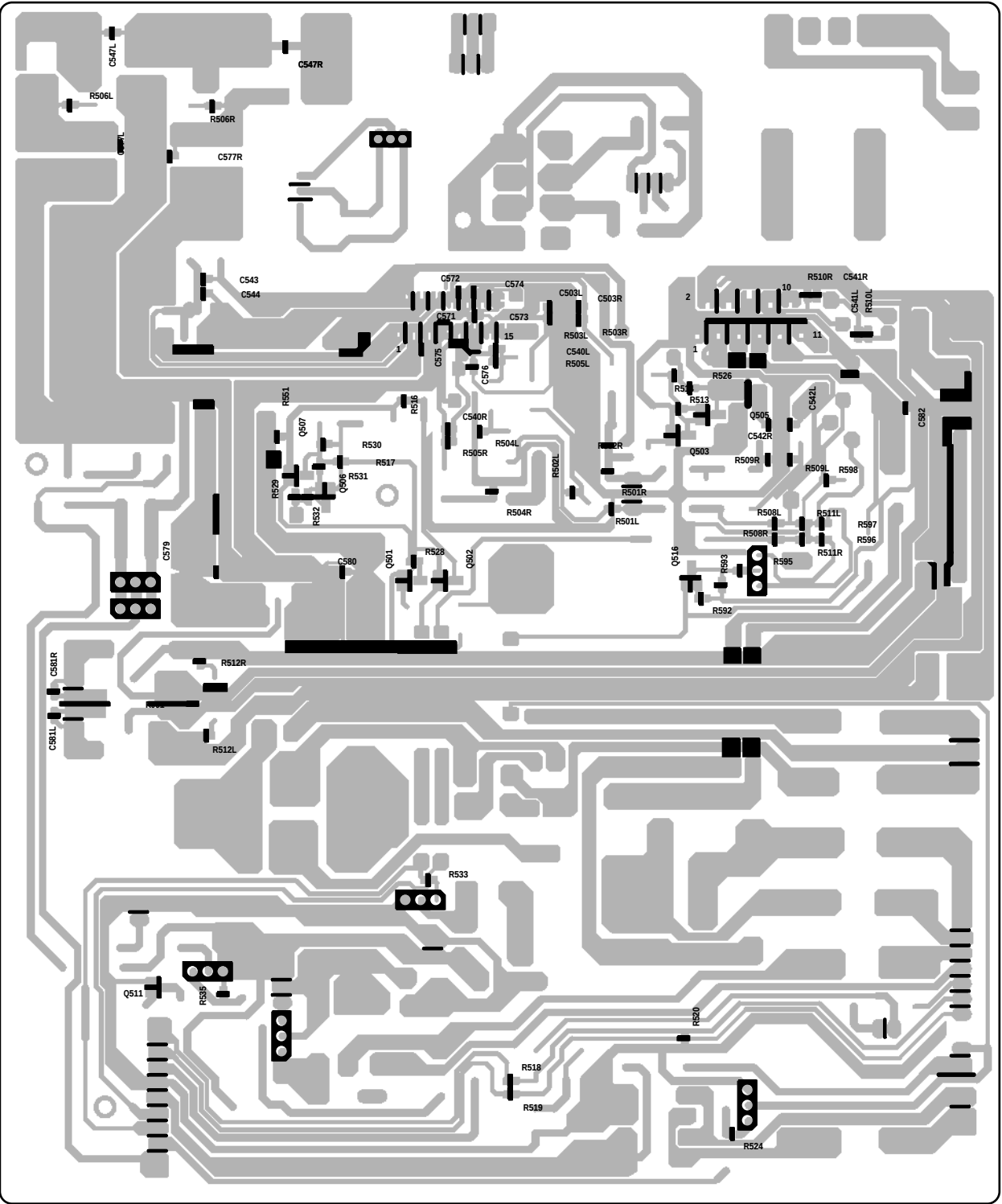
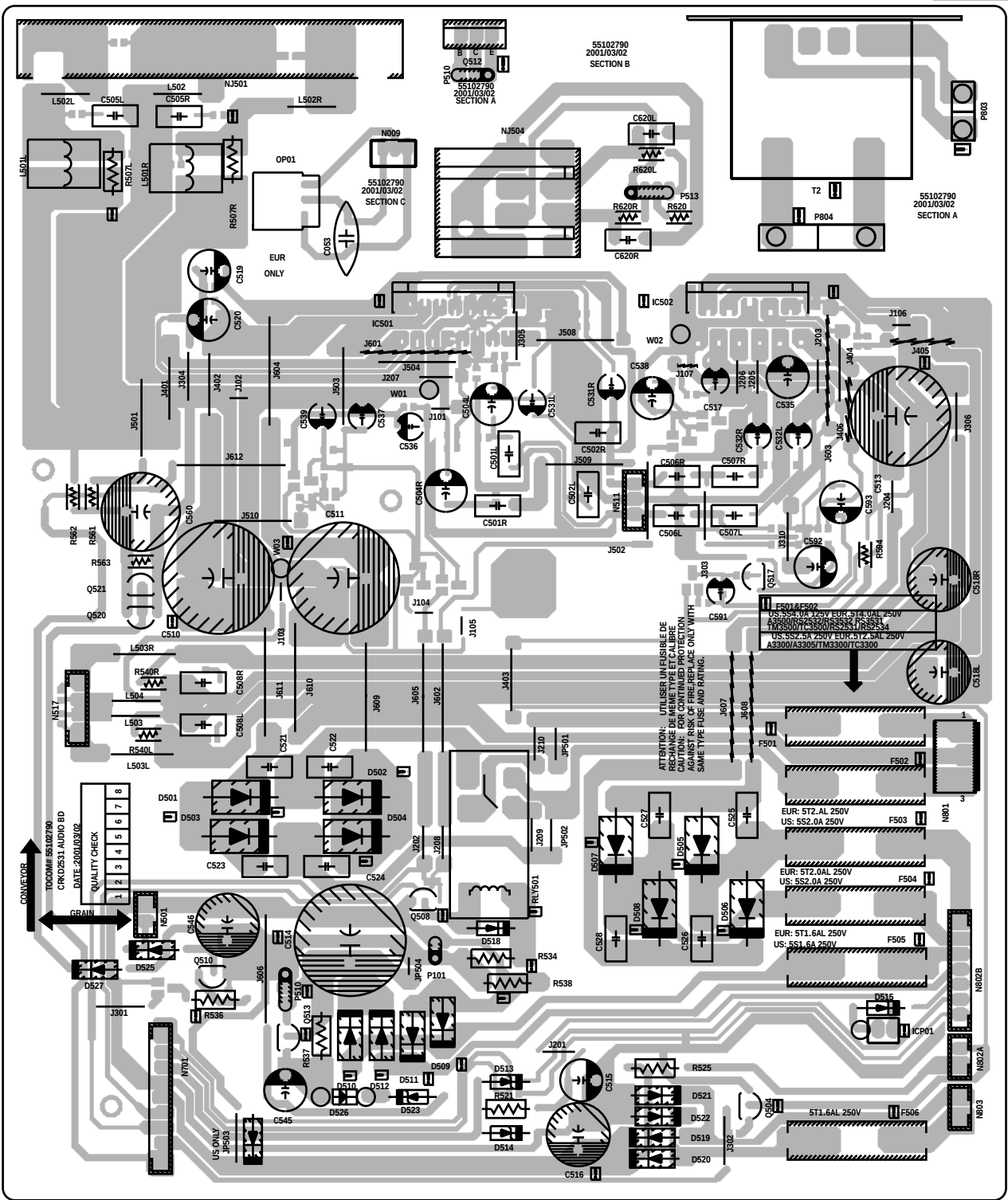
| (Only for tuner TEA5757)<br>1: HAVE DIODE<br>0: NO DIODE |          |      | SELECT SENSITIVITY |  |
|----------------------------------------------------------|----------|------|--------------------|--|
| VERSION                                                  | LOCATION | D712 | D715               |  |
| 1st rate                                                 |          | 0    | 0                  |  |
| 2nd rate                                                 |          | 0    | 1                  |  |
| 3rd rate                                                 |          | 1    | 0                  |  |
| poor rate                                                |          | 1    | 1                  |  |



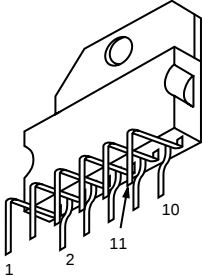
Power supply / amplifier P.C.B.  
Platine alimentation / amplificateur  
Ltpl. Netzteil und Endverstärker  
Piastra alimentazione / amplificatore  
Platina alimentación / amplificador

Component side  
Côté composants  
Bestückungsseite  
Lato componenti  
Lado componentes

Solder side  
Côté soudure  
Lötseite  
Lato saldature  
Lado del cobre



LM 1876



TDA7269



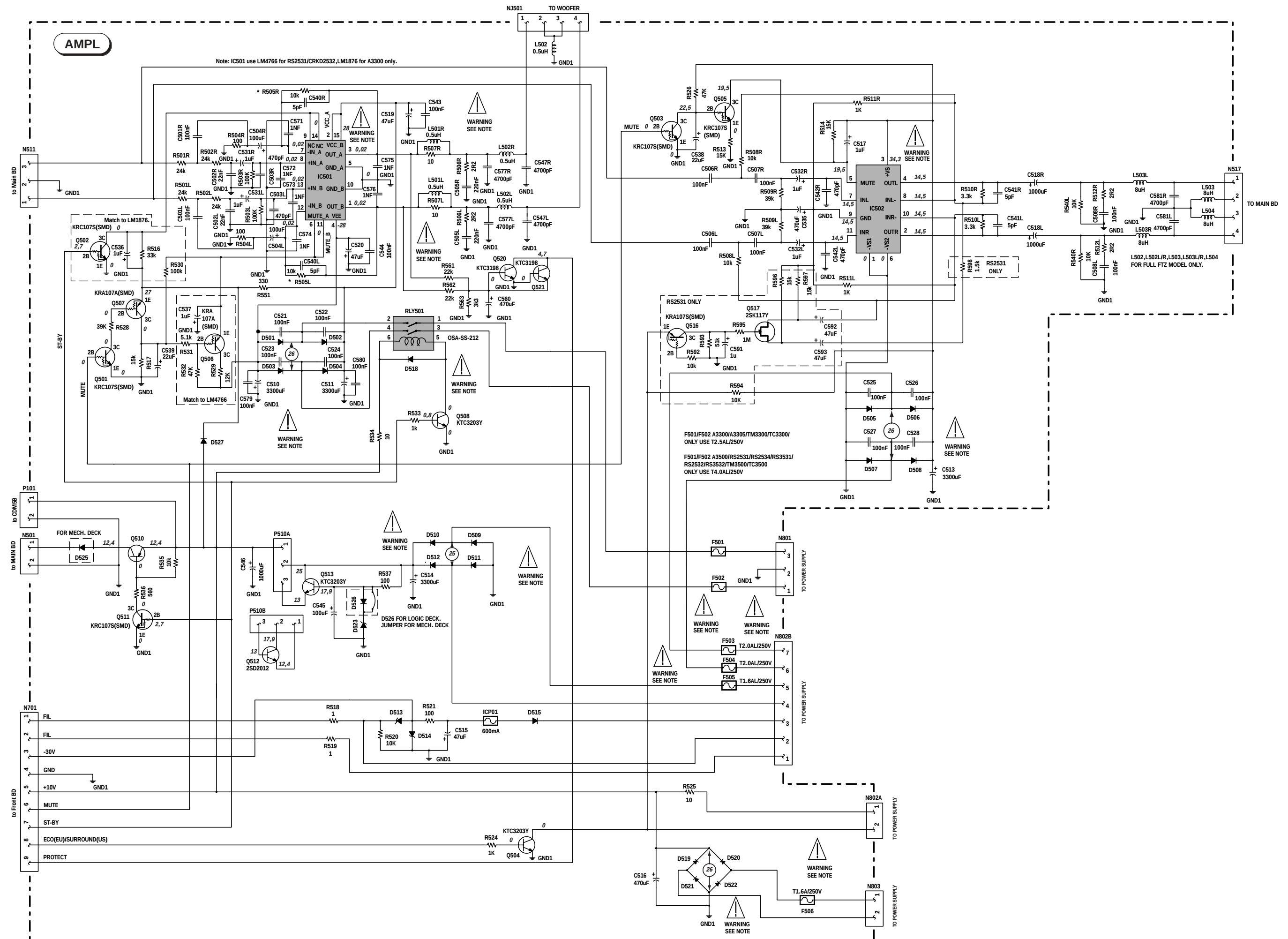
KTC3203Y



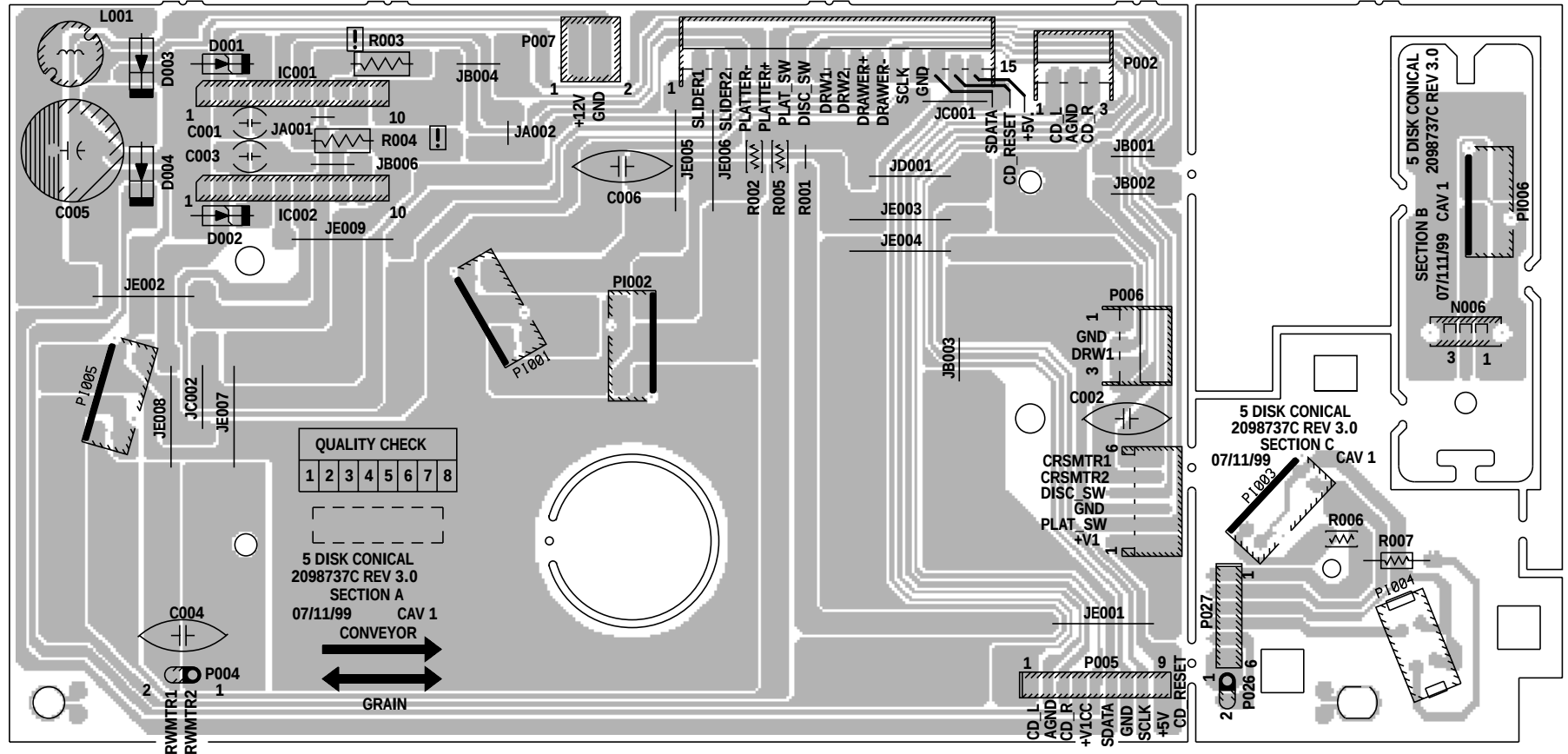
KTC3198



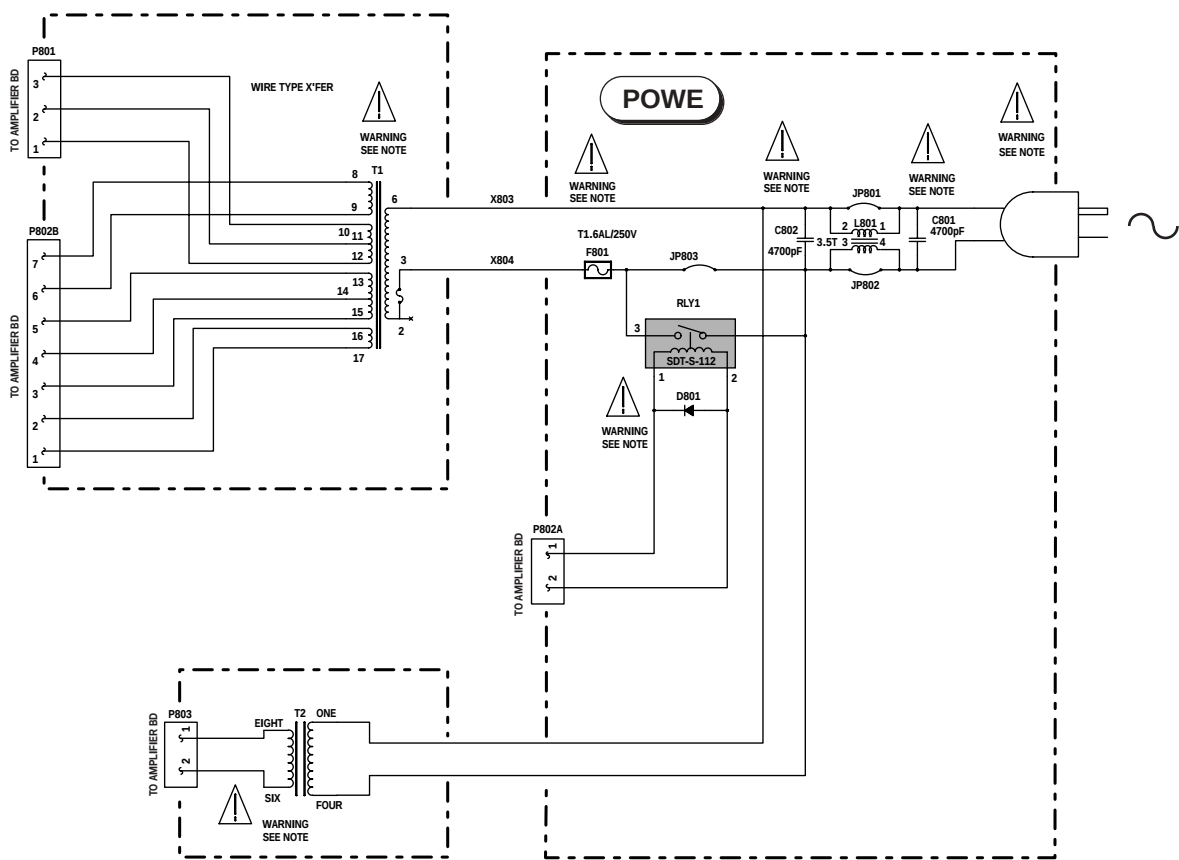
2SK117Y



CD control P.C.B.  
 Platine commandes CD  
 Ltpl. CD Bedienteil  
 Piastra comandi CD  
 Platina de mandos CD



POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION -  
SCHALTBILD NETZTEIL - SCHEMA DELL' ALIMENTAZIONE - ESQUEMA DE LA  
ALIMENTACIÓN



Power unit P.C.B.  
Platine secteur  
Netzanschluss Ltpl.  
Piastra di rete  
Platina de red

Component side  
Côté composants  
Bestückungsseite  
Lato componenti  
Lado componentes

