

SERVICE MANUAL DOCUMENTATION TECHNIQUE TECHNISCHE DOKUMENTATION DOCUMENTAZIONE TECNICA DOCUMENTACION TECNICA

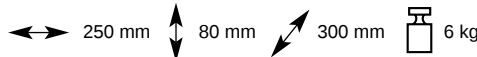
CS1200VD

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

Type of set : Stereo pre-main amplifier - DVD Type d'appareil : Préampli-ampli stéréophonique - DVD Geräteart : Stéreo-Vollverstärker - DVD Tipo d'apparecchio : Preamplificatore-amplificatore stereo -DVD Tipo de aparato : Préamplificador-amplificador estereo -DVD			
Power supply : Alimentation : Stromversorgung : ~ 230 V - 50Hz Alimentazione : Alimentación :		Nominal output power : Puissance nominale de sortie : Nennausgangsleistung : 2 x 20 W (RMS) Potenza nominale di uscita : 1 x 40 W (RMS) Potencia nominal de salida :	
	FM - MF : 87.5 - 108 MHz MW - PO : 522 - 1620 kHz LW - GO : 150 - 283 kHz	Sensitivity : Sensibilité : FM - MF : 20 µV (S/N = 26 dB) Empfindlichkeit : MW - PO : 1000 µV/m (S/N = 20 dB) Sensibilità : LW - GO : 2800 µV/m (S/N = 20 dB) Sensibilidad :	
	DVD Standard : Standard : Norm : PAL and NTSC Stantard : Estandar :	Signal to noise ratio : Rapport signal / bruit : Geräuschspannungsabstand : 60 dB Rapporto segnale / disturbo : Relación señal / ruido :	



WARNING : Before servicing this chassis please 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 : 357 339 80 - 1103 / 3,7M - ASMP1003 Print.



Do not disconnect modules when they are energized!

Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu'ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'à travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfernen!

Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

Non scollegare le piastre quando sono alimentate!

Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.

No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.



Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ) gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione dei componenti di sicurezza (evidenziati con il segno ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità" del costruttore.

La sustitución de elementos de seguridad (marcados con el símbolo ) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER

On UHF, input level: 1 mV, bar test pattern:

- PAL, 1 standard, 100% white.

Via the scart socket, input level: 1 Vpp, bar test pattern:

Colour, contrast and brightness at mid-position, sound at minimum.

Programme selected: PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RICEVITORE:

In UHF, livello d'entrata 1 mV, monoscopio barre:

- PAL, norma G, bianco 100%.

Via SCART, livello d'entrata 1 Vpp, monoscopio barre:

Colore, Contrasto, Luminosità media, Suono minimo.

Programma selezionato PR 01.

Tensioni continue rilevate rispetto alla massa con un voltmetro digitale.

RECEPTEUR:

En UHF, niveau d'entrée 1 mV mire de barres

- SECAM, Norm L, Blanc 100%.

Par la prise Péritelvision, niveau d'entrée 1 Vcc, mire de barres.

Couleur, contraste, lumière à mi-course, son minimum.

Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

RECEPTOR:

En UHF, nivel de entrada 1 mV, mira de barras:

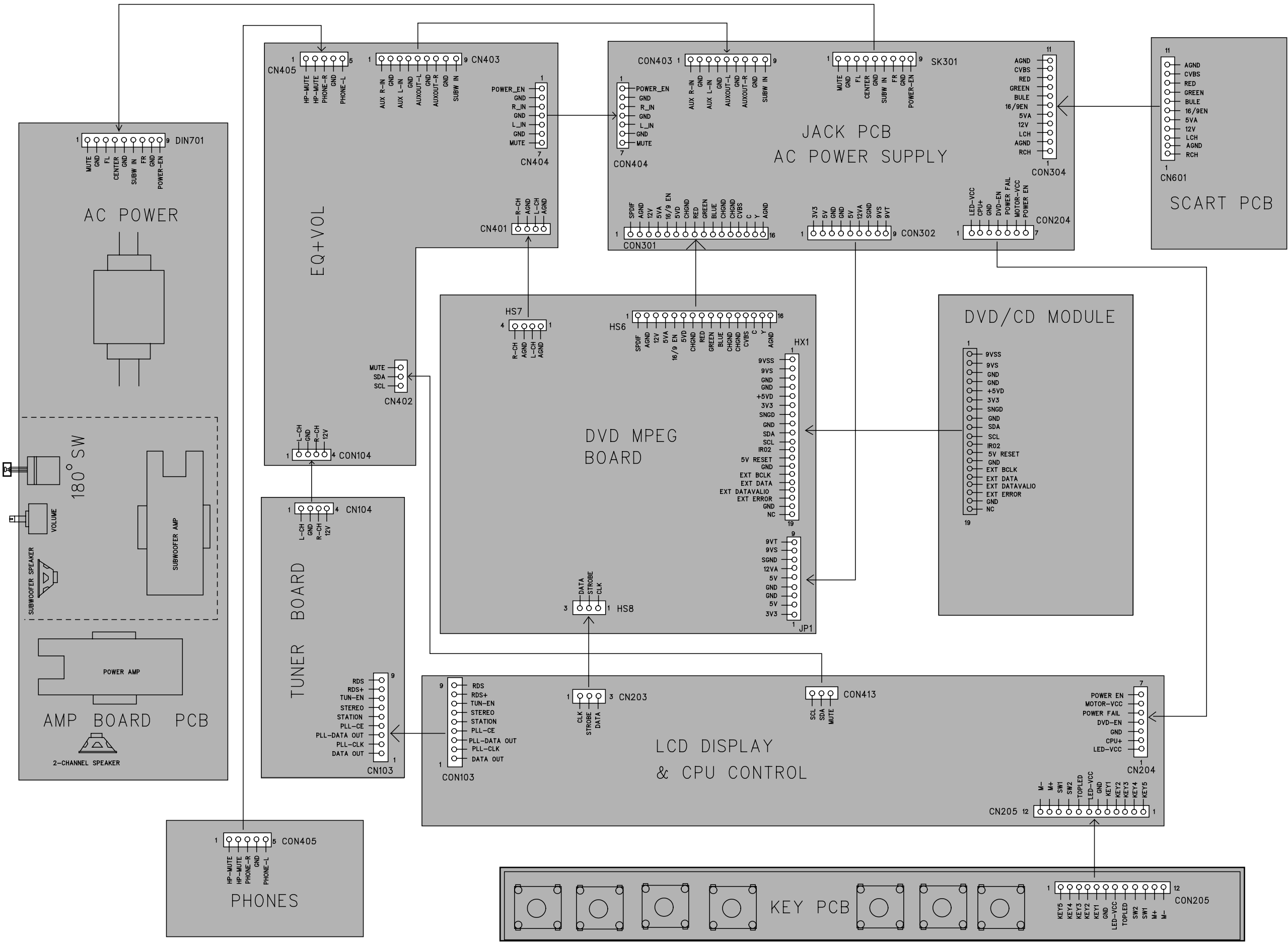
- PAL, norma G, blanco 100%.

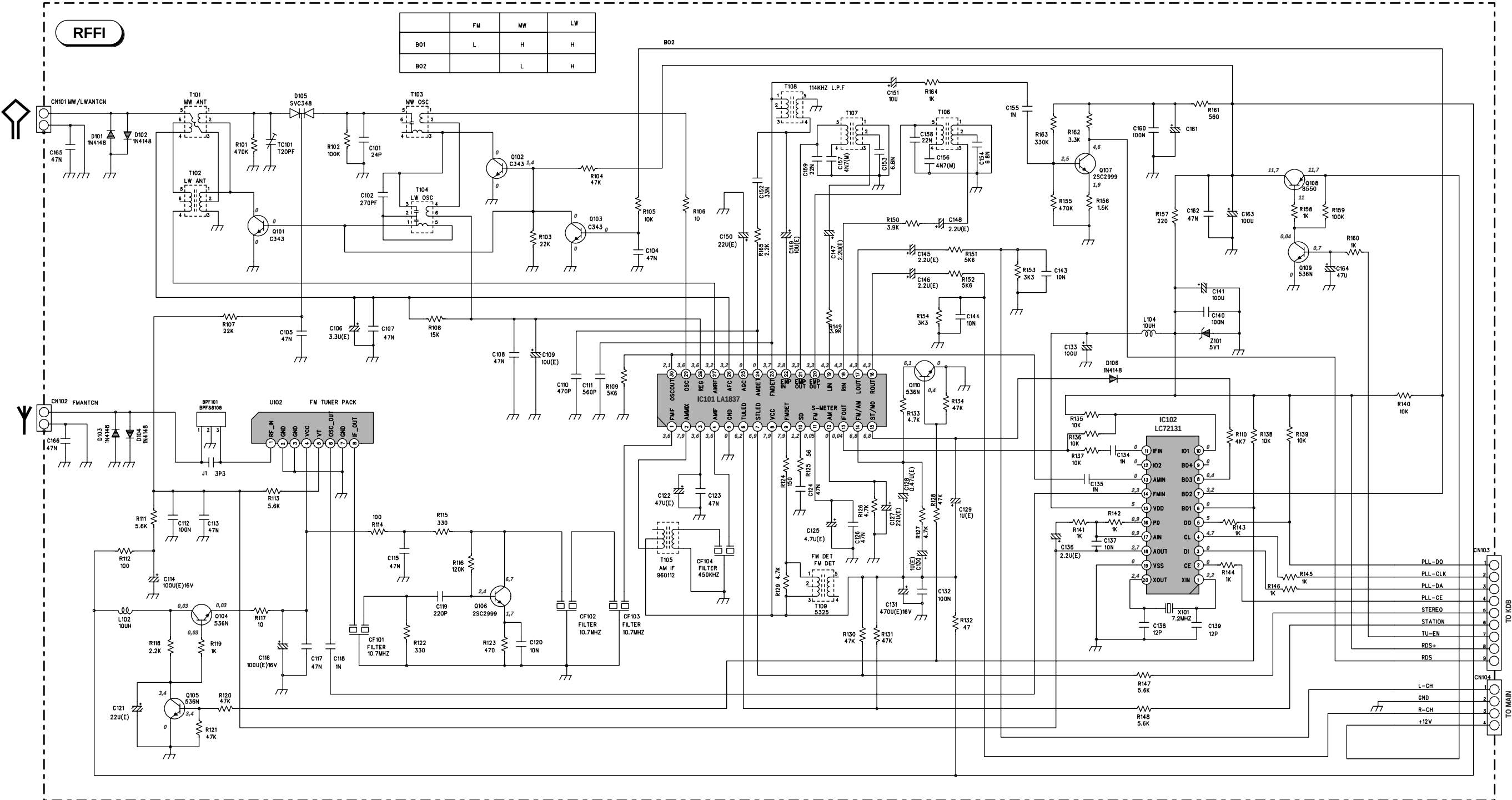
Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido mínimo.

Programa afectado PR 01.

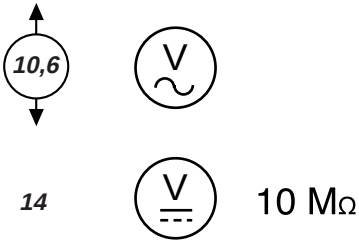
Tensiones continuas marcadas en relación a la masa con un voltmetro digital.





NOTES:

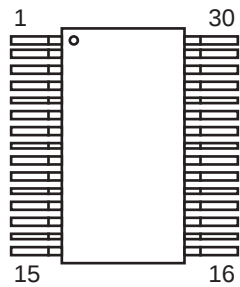
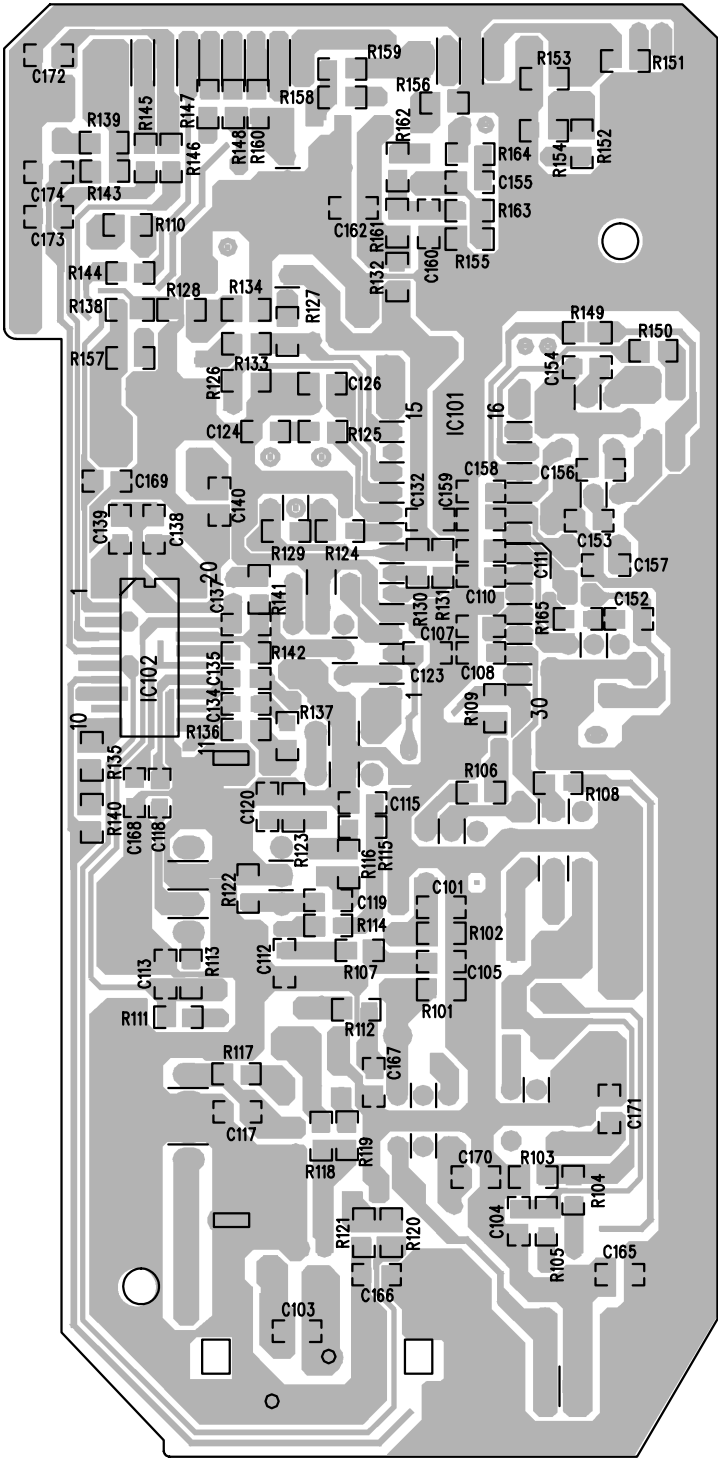
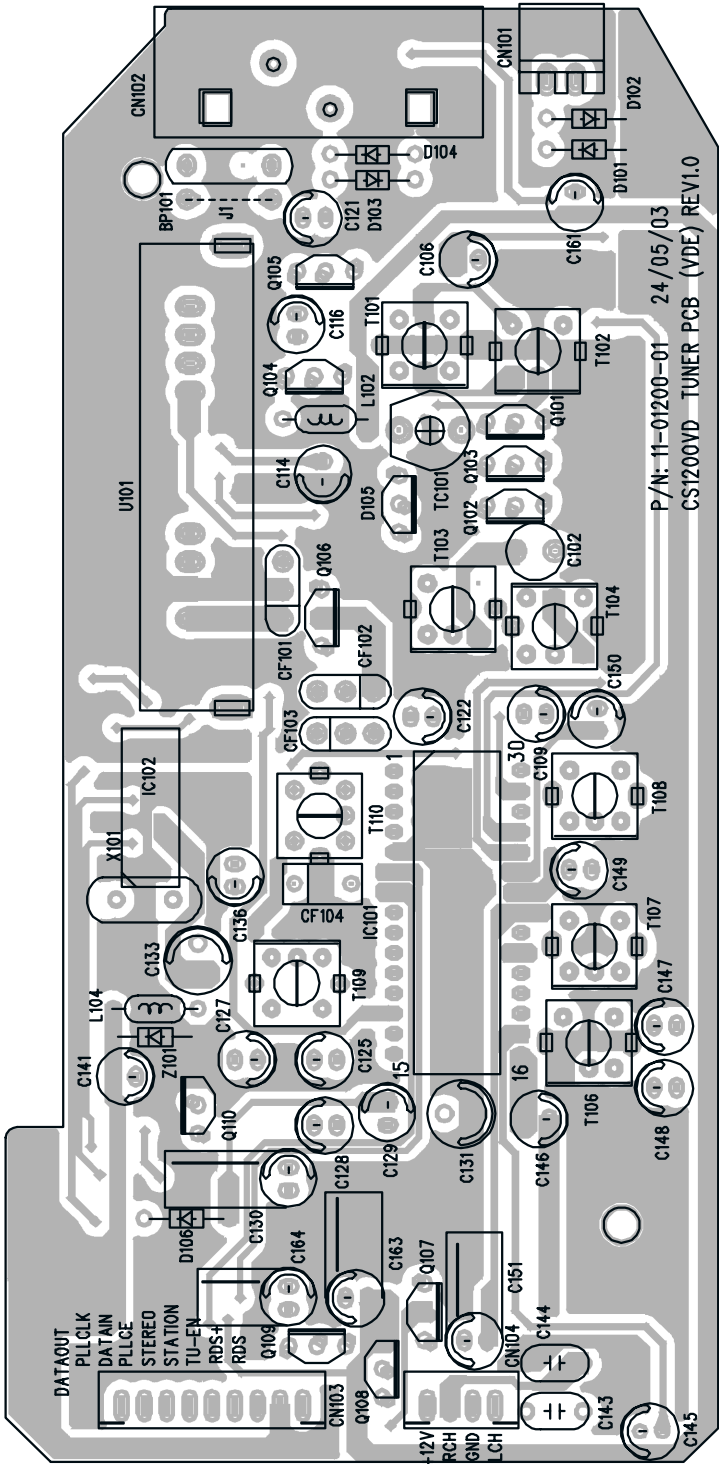
1. Unless otherwise specified:
A. All resistor values are in ohms, 1/10W
B. All Capacitor values are in uF
2. Voltages are positive with respect to ground under no signal conditions
3. Replace transistors with type specified from replacement parts list
4. Unless otherwise stated, all voltages taken in radio "on" position
5. * and  indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.



RF /IF P.C.B.
Platine HF / FI
Ltpl. HF / ZF
Piastra RF / FI
Platina RF / FI

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



LA1837



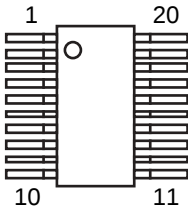
2SC945



2SC2999

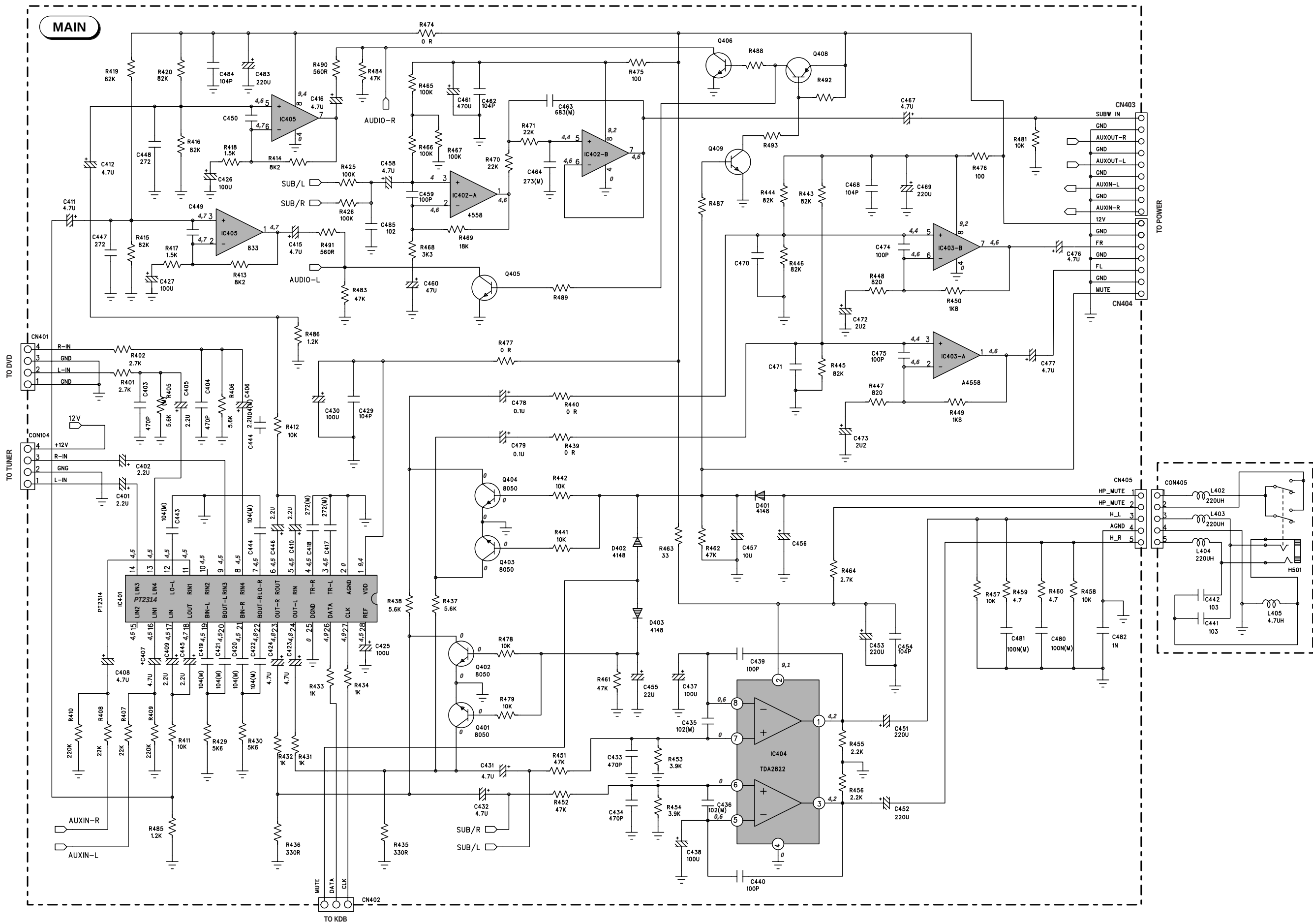


8550C



LC72131M

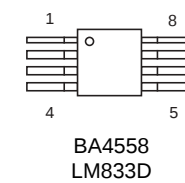
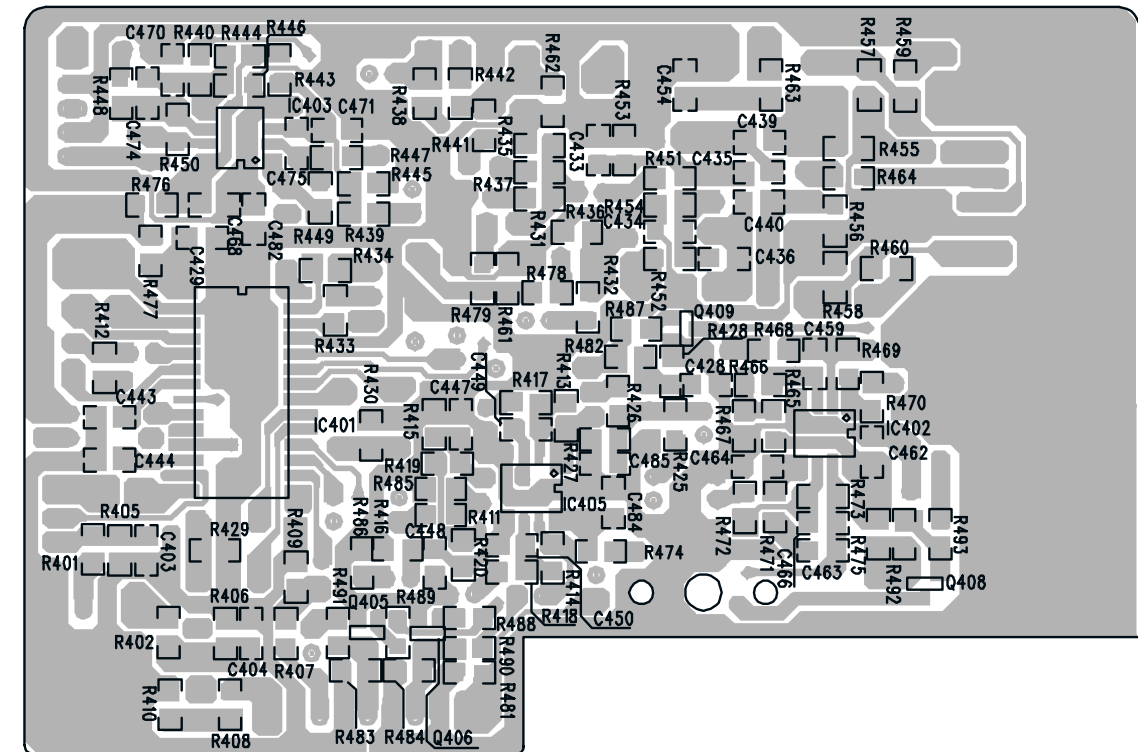
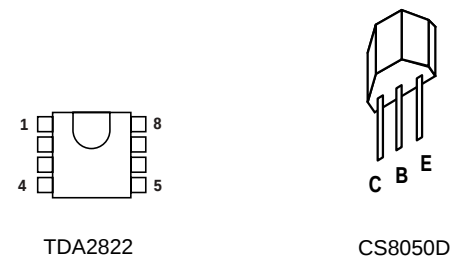
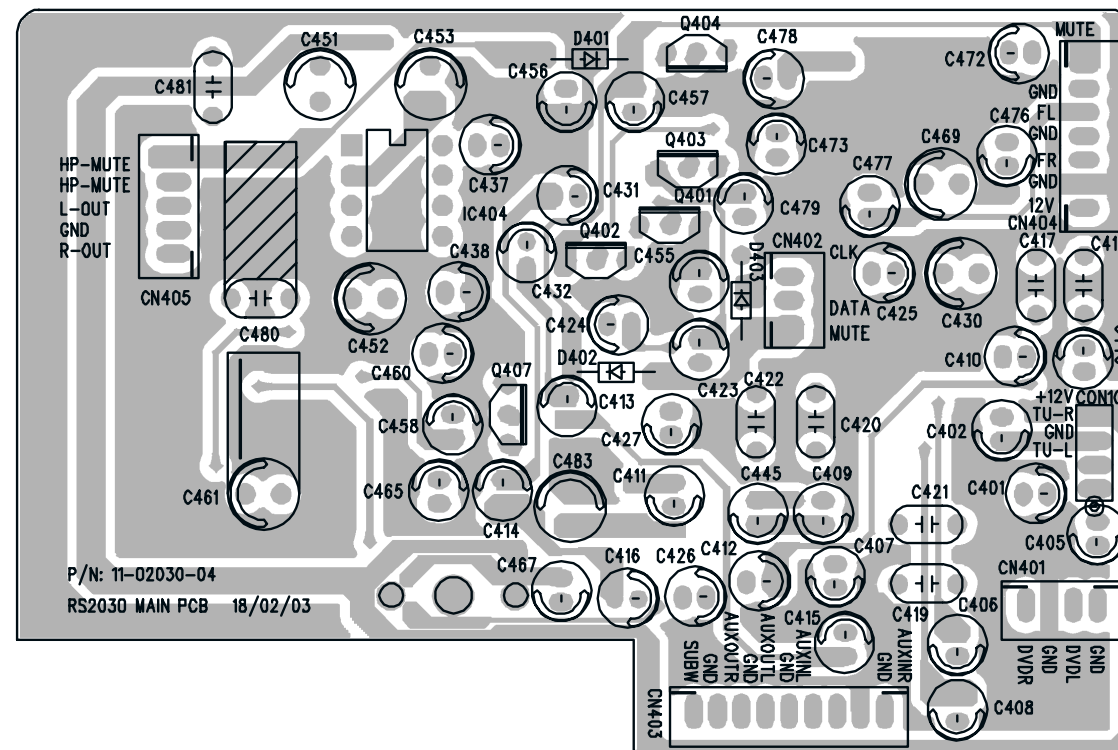
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD GRUNDPLATTE - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL

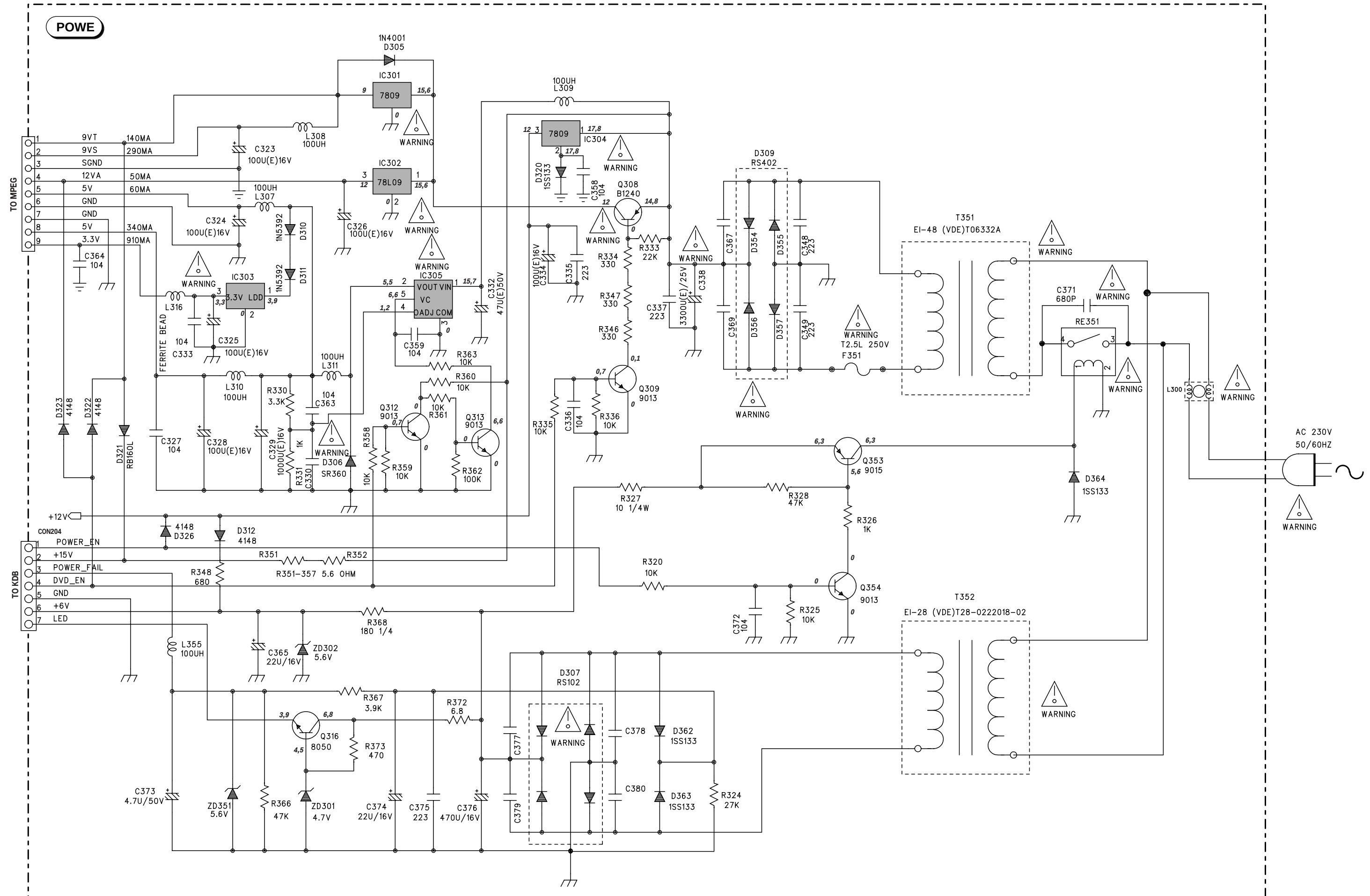


Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre

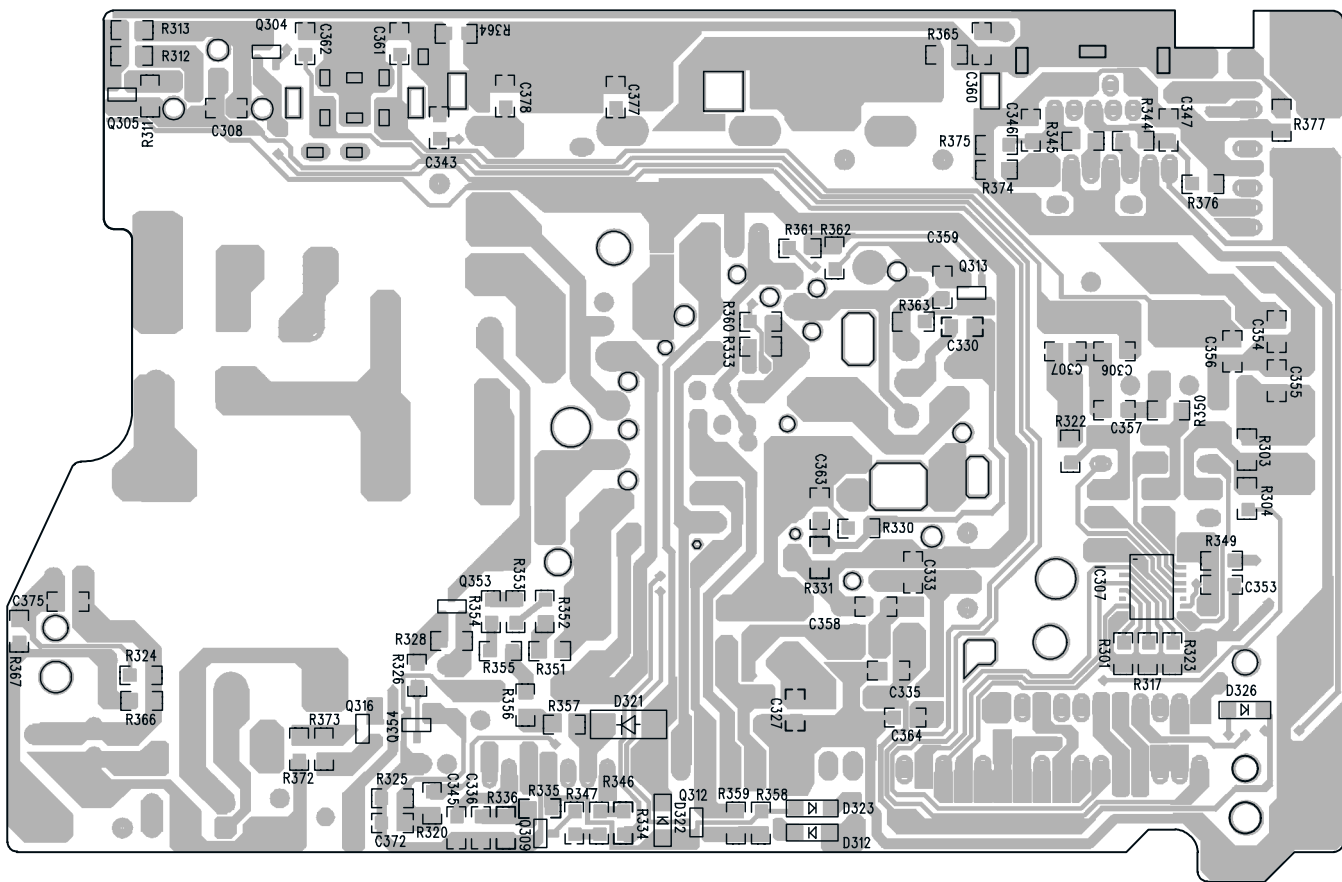
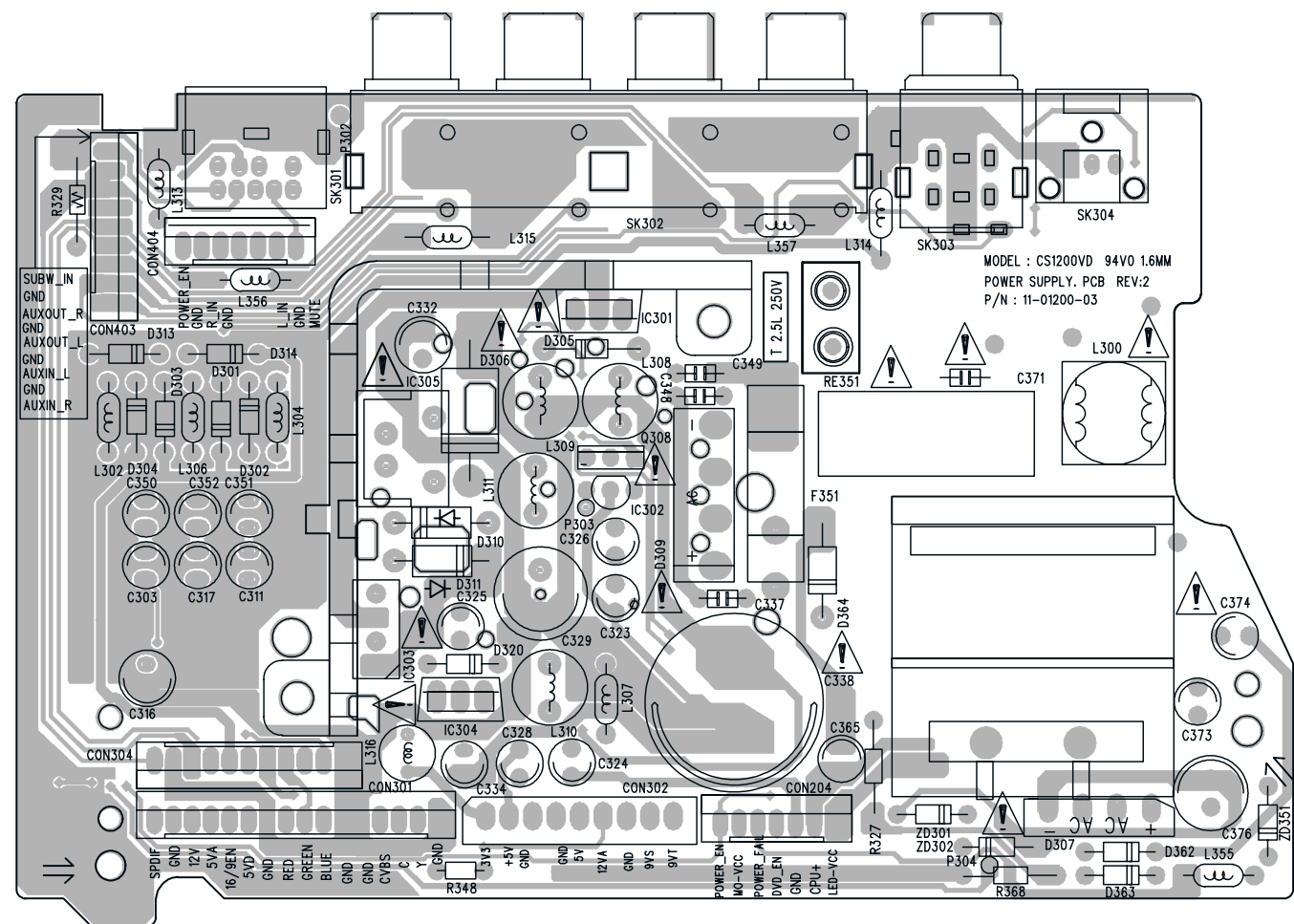




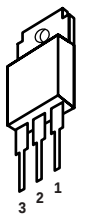
Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

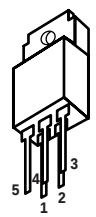
Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



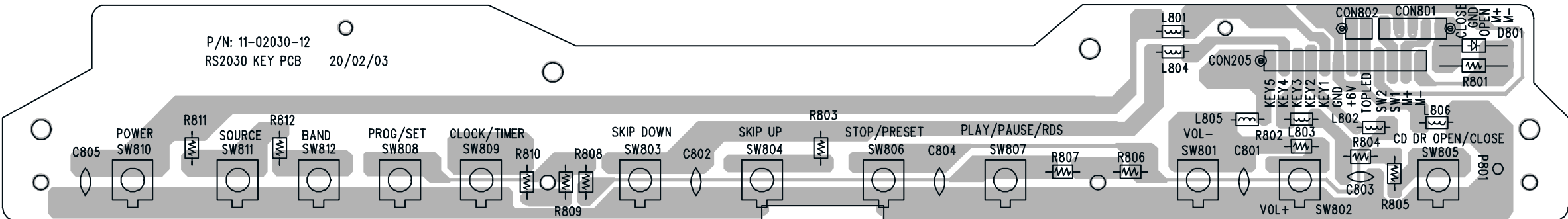
Controls P.C.B.
Platine commandes
Ltpl. Bedienteil
Piastra comandi
Platina de mandos

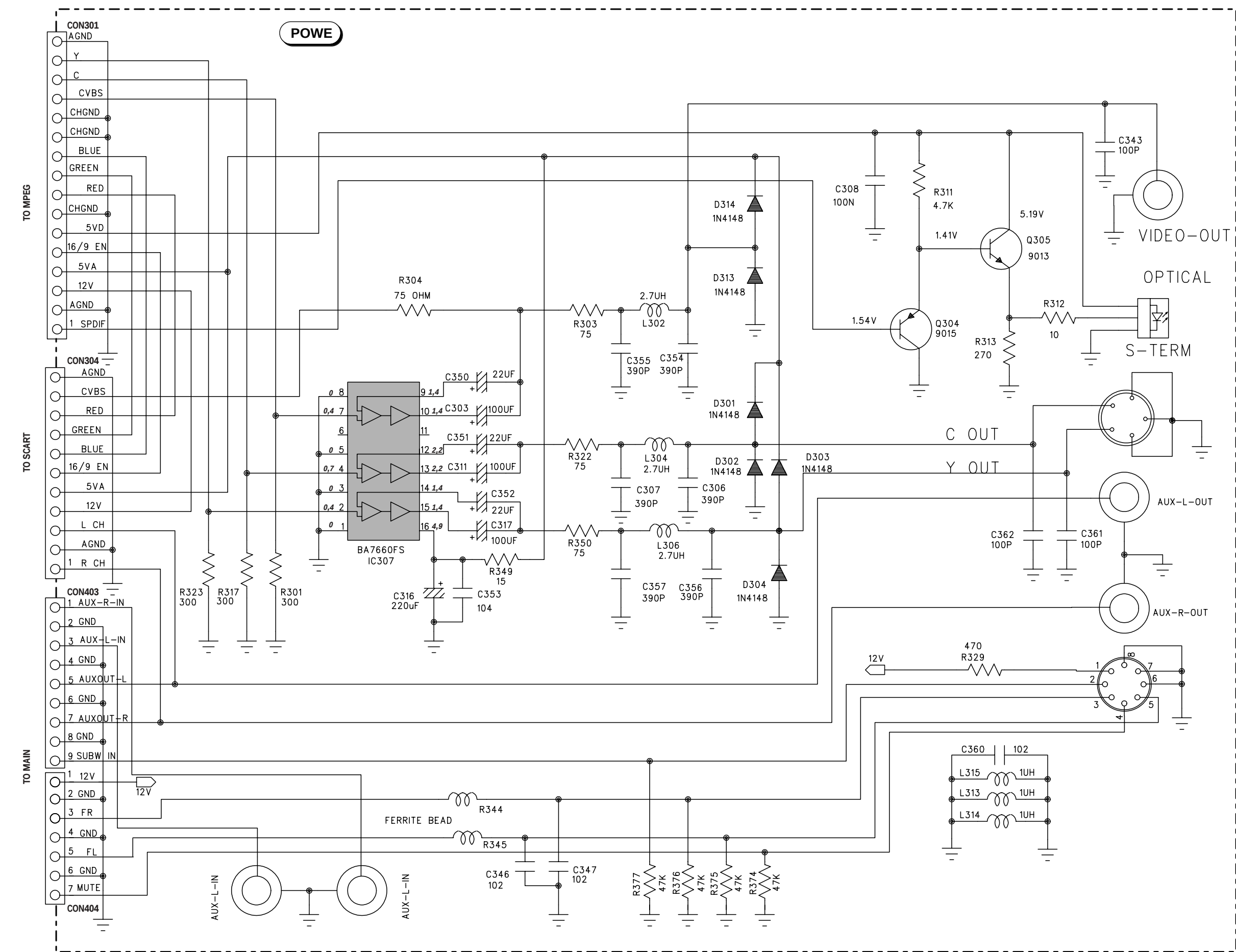


NJM7809

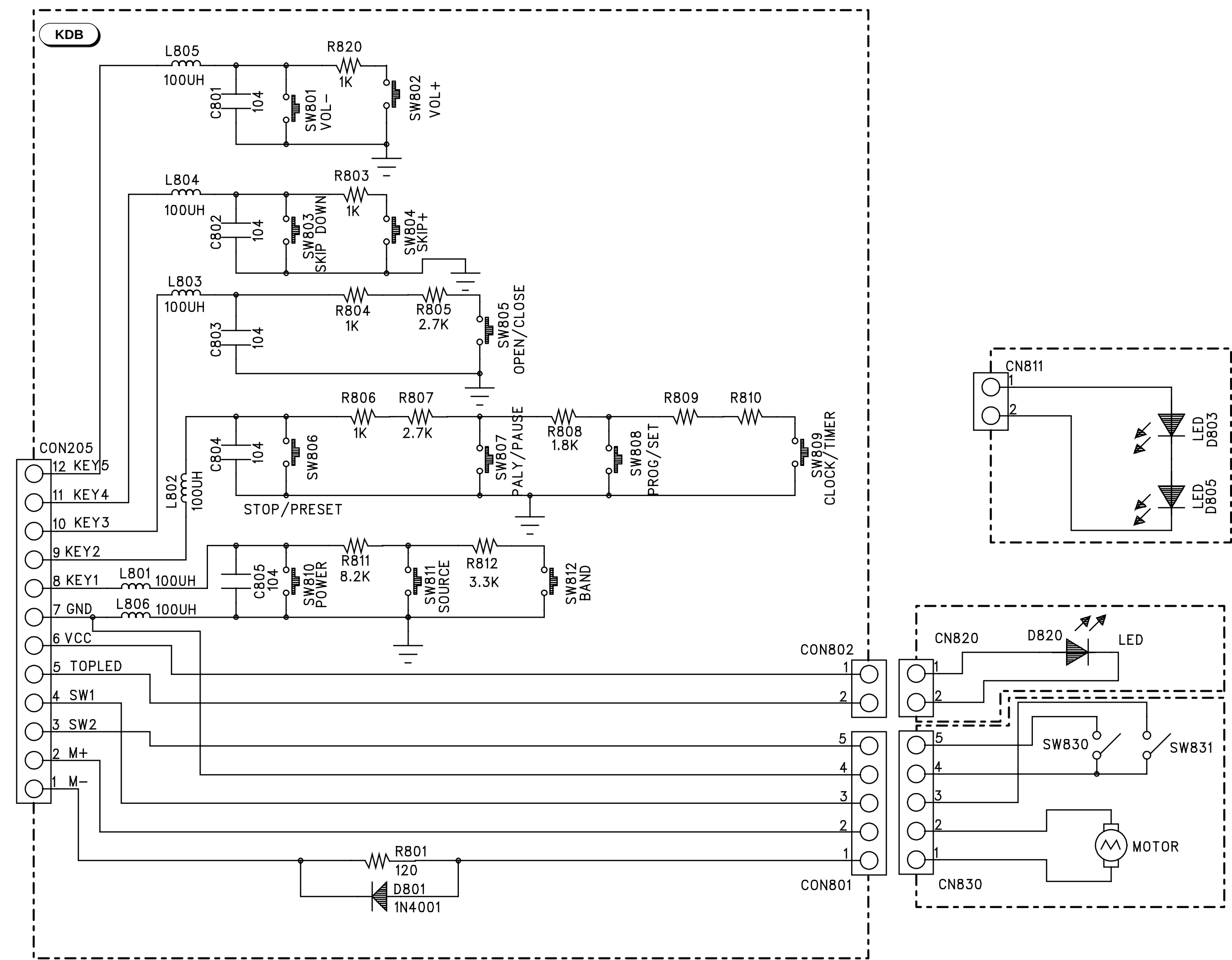


PQ1CG3032





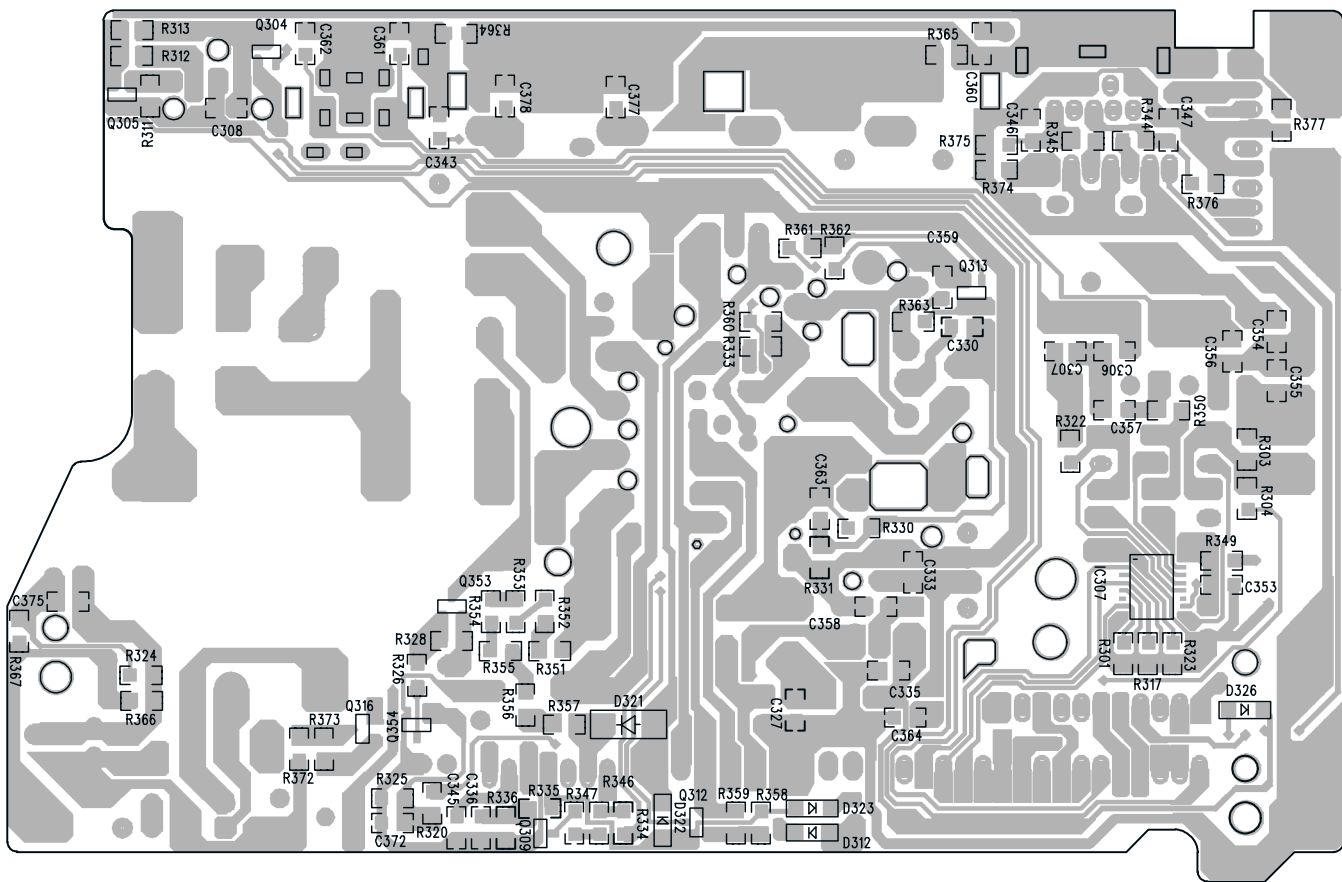
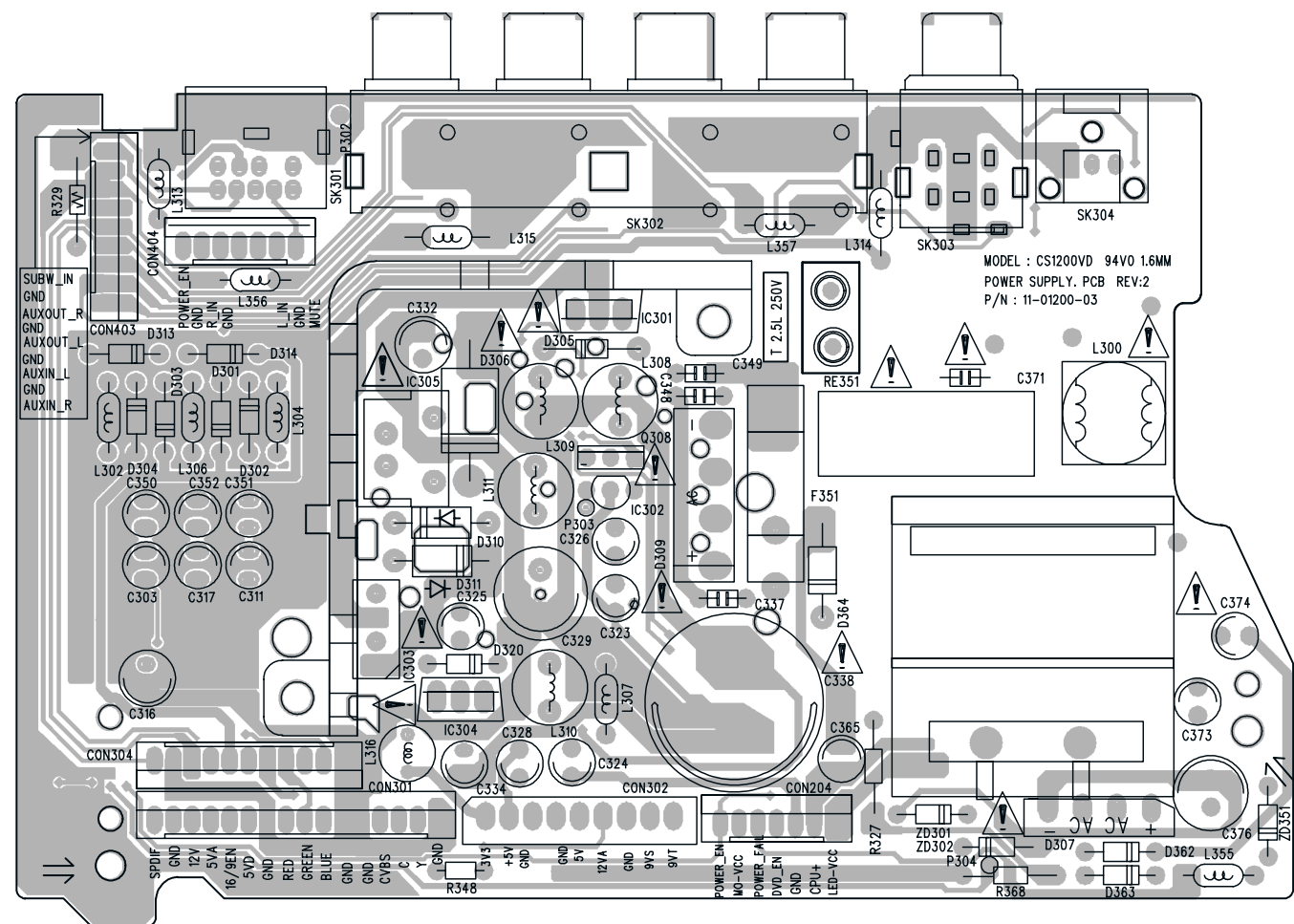
CONTROL SCHEMATIC DIAGRAM - SCHEMA COMMANDES - SCHALTBILD BEDIENTEIL - SCHEMA COMANDI - ESQUEMA MANDOS



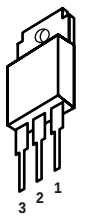
Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

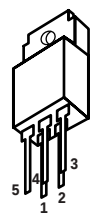
Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



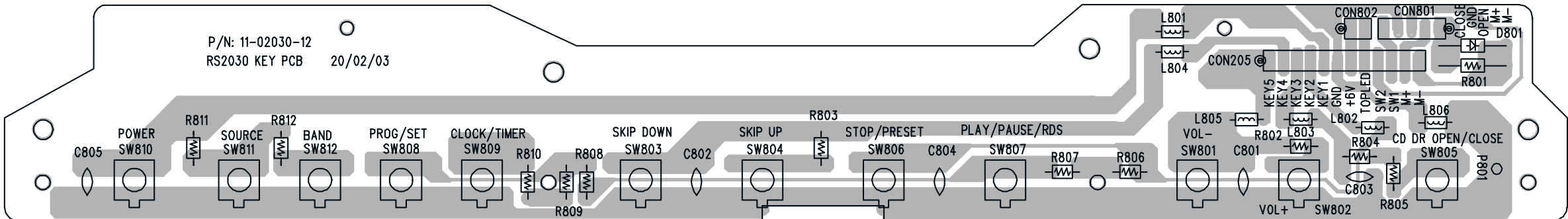
Controls P.C.B.
Platine commandes
Ltpl. Bedienteil
Piastra comandi
Platina de mandos



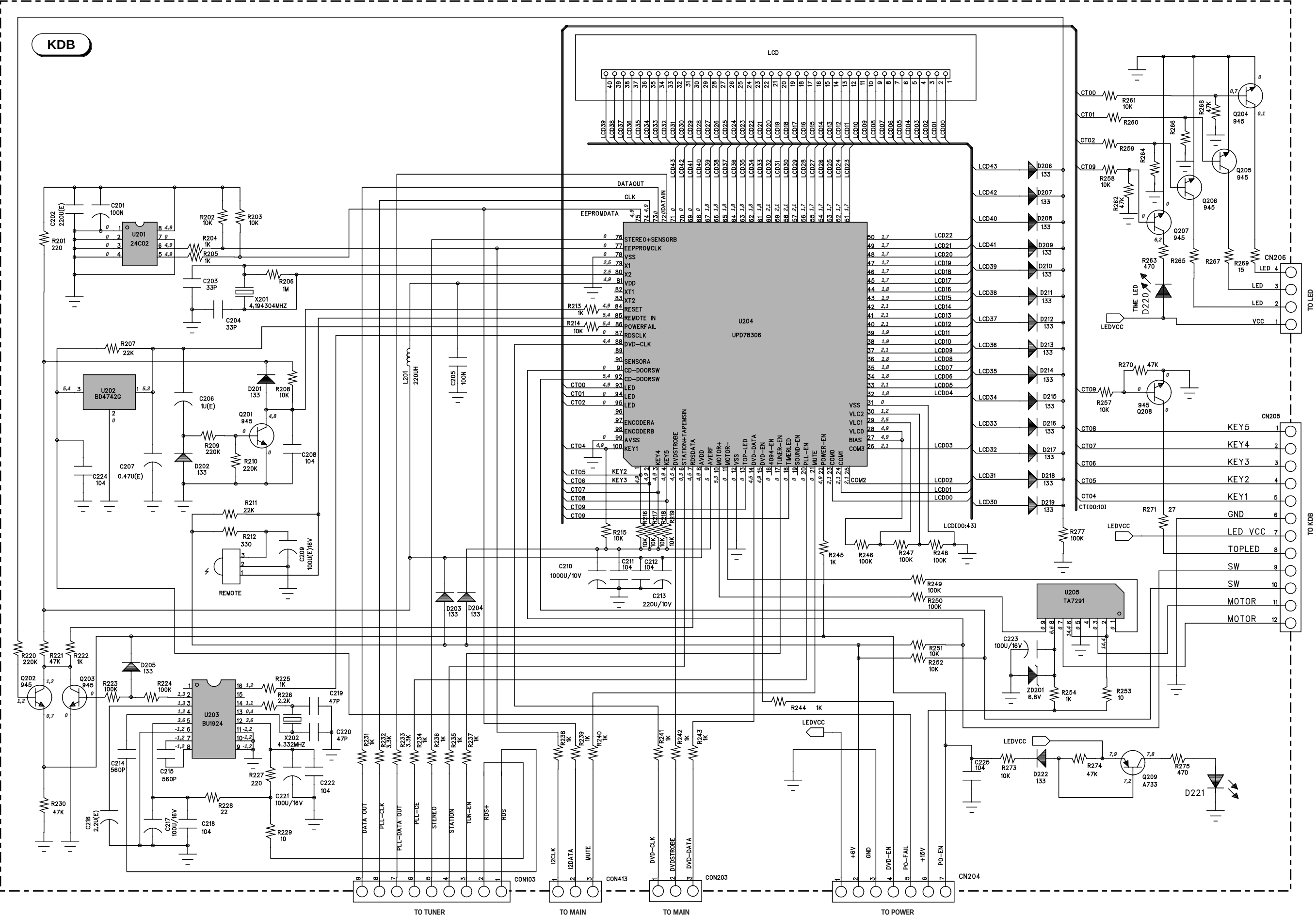
NJM7809



PQ1CG3032

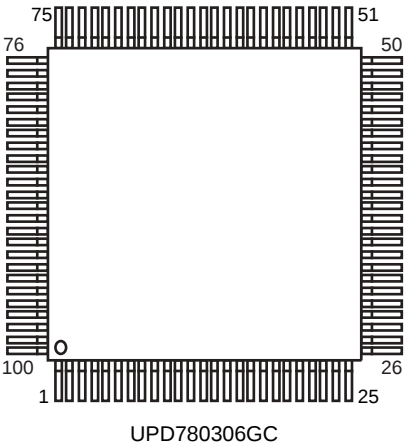
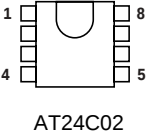
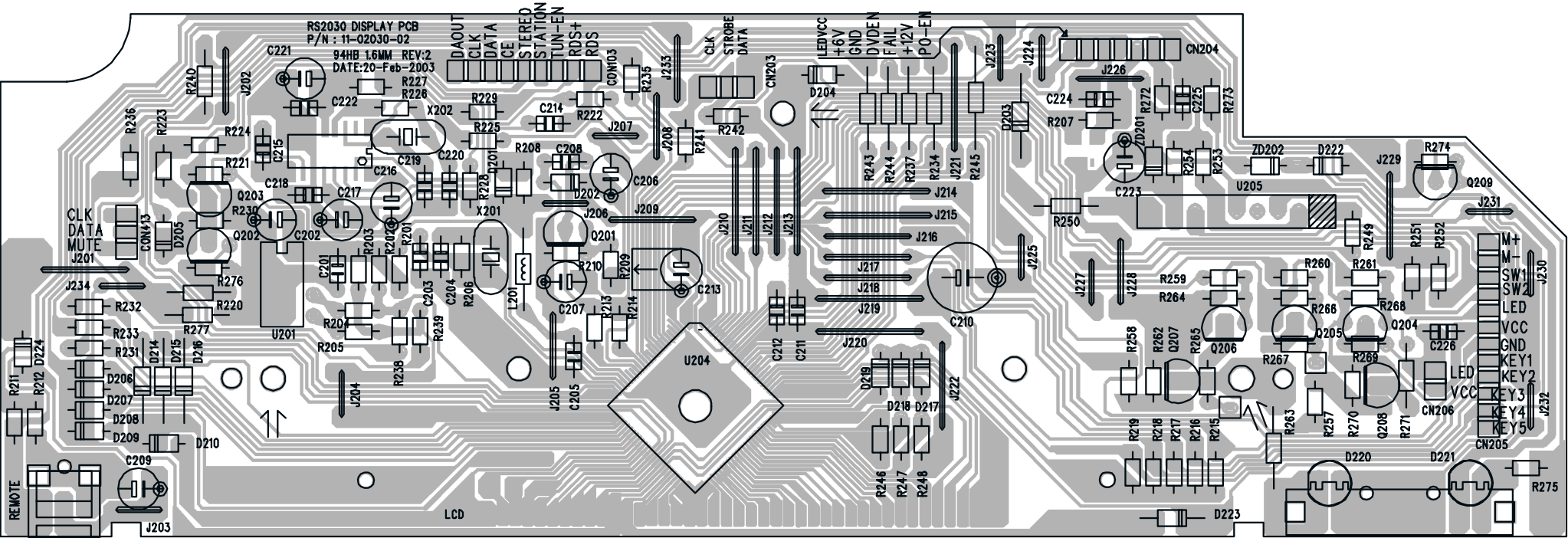


CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE -
SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR

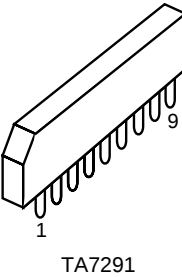
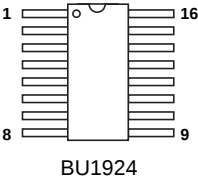
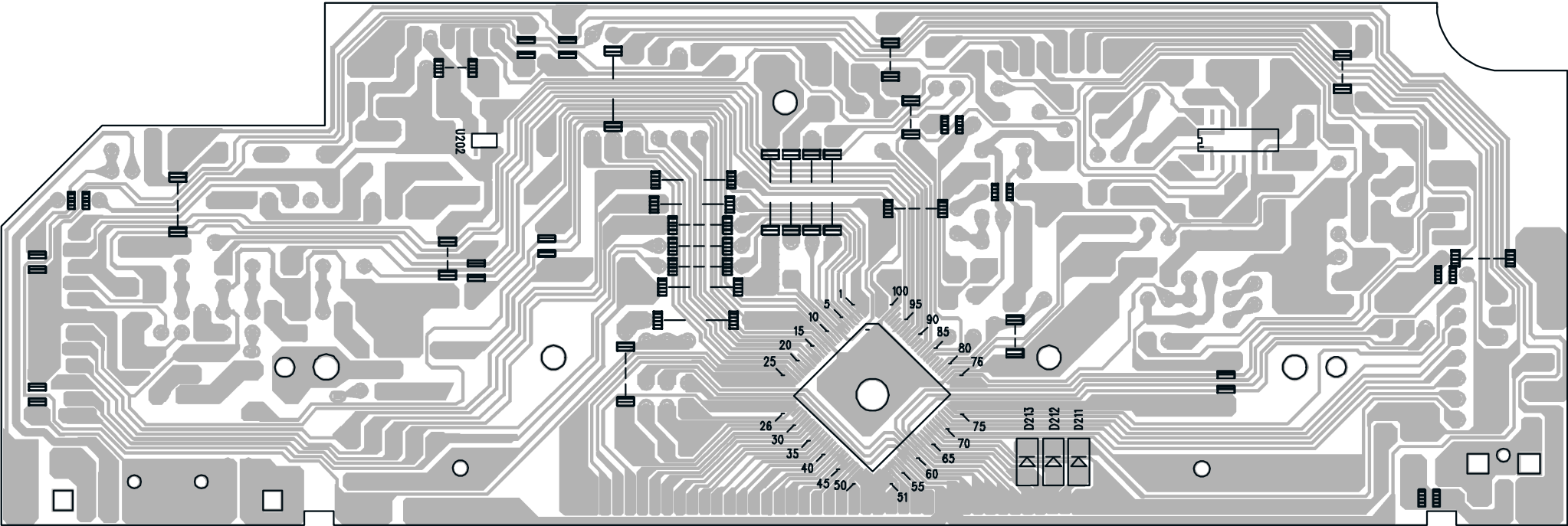


Controls / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicador

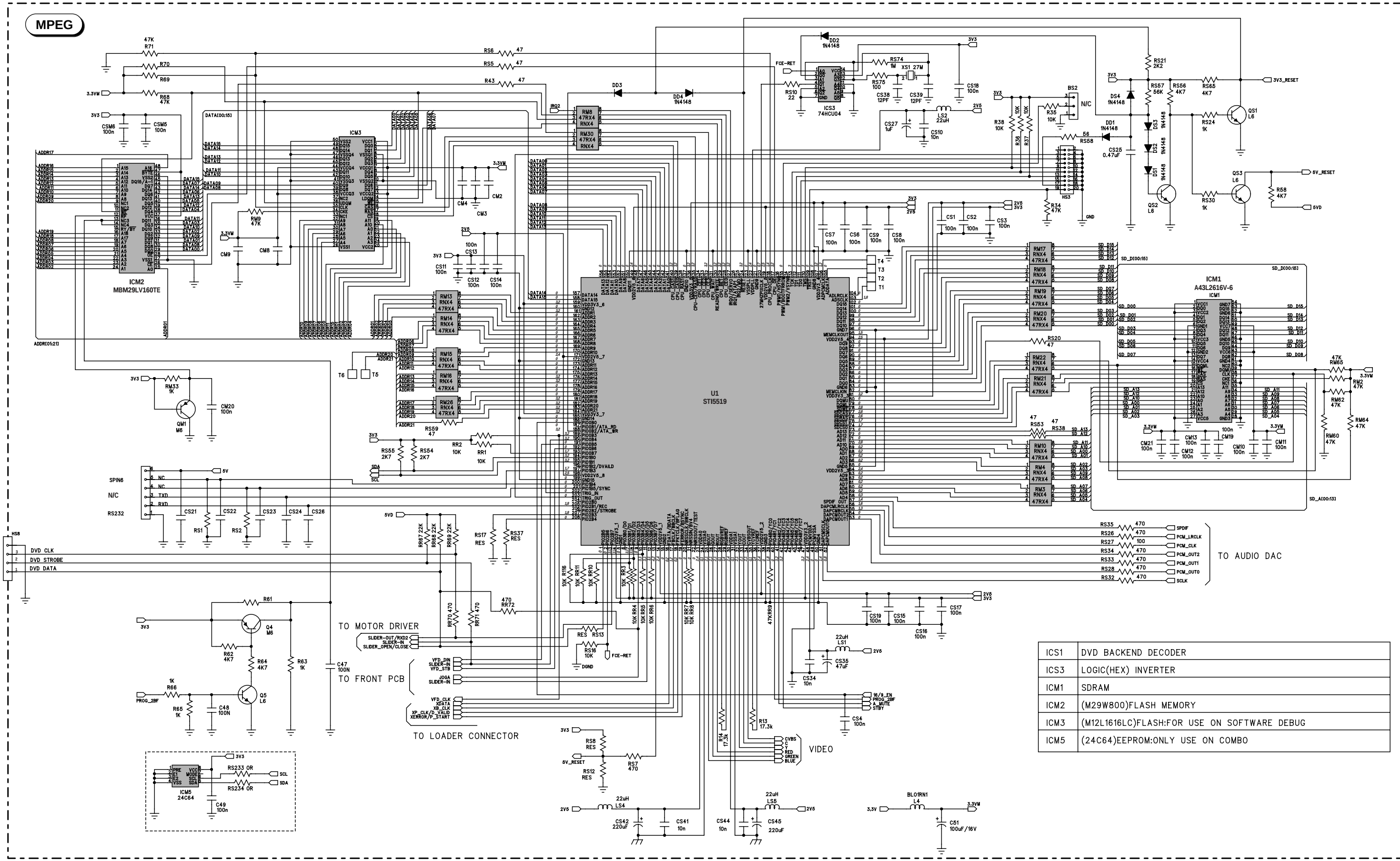
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre

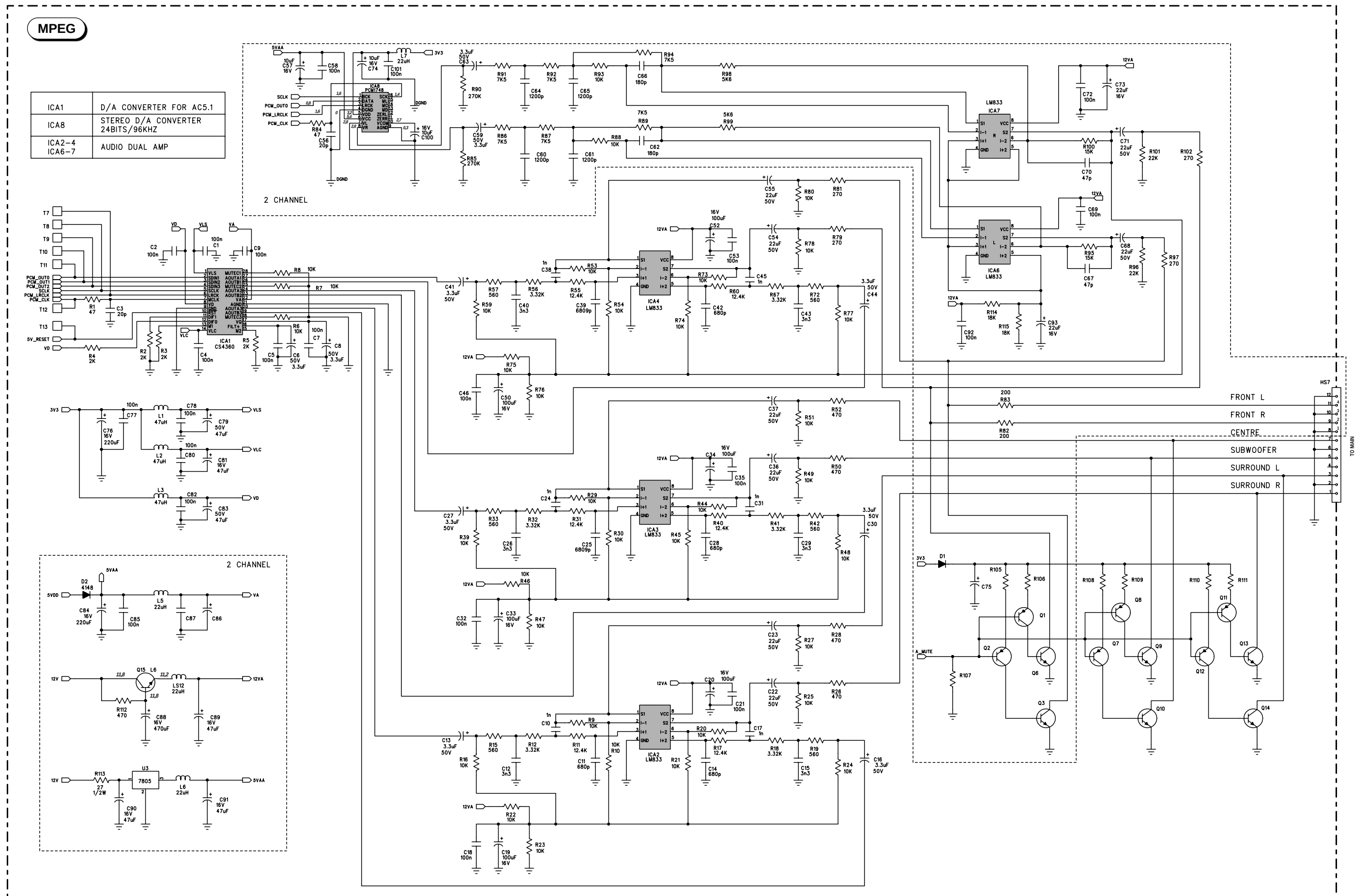


MPEG SHEMATIC DIAGRAM - SCHEMA DE LA PLATINE MPEG - SCHALTBIID MPEG - SCHEMA DELLA PIASTRA MPEG - ESQUEMA DE LA PLATINA MPEG (DECODER PART)

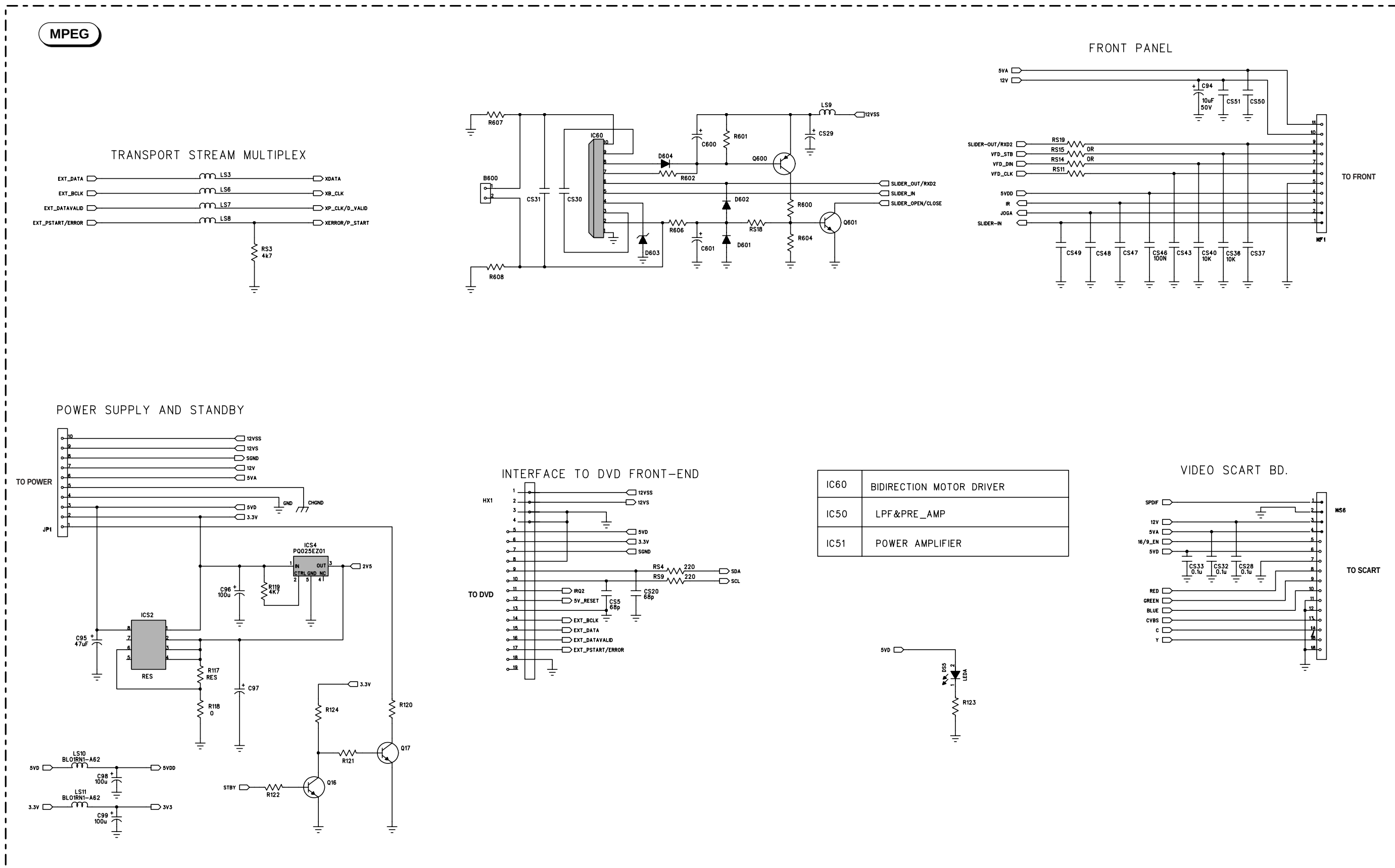


ICS1	DVD BACKEND DECODER
ICS3	LOGIC(HEX) INVERTER
ICM1	SDRAM
ICM2	((M29W800)FLASH MEMORY
ICM3	((M12L1616LC)FLASH:FOR USE ON SOFTWARE DEBUG
ICM5	((24C64)EEPROM:ONLY USE ON COMBO

MPEG SHEMATIC DIAGRAM - SCHEMA DE LA PLATINE MPEG - SCHALTBILD MPEG - SCHEMA DELLA PIASTRA MPEG - ESQUEMA DE LA PLATINA MPEG (AUDIO PART)



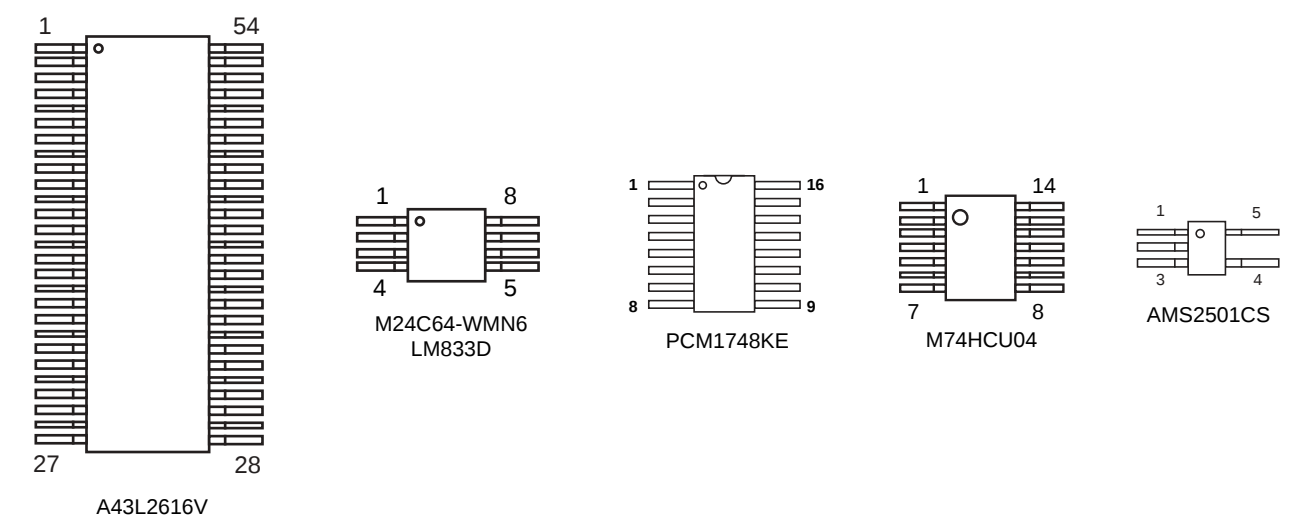
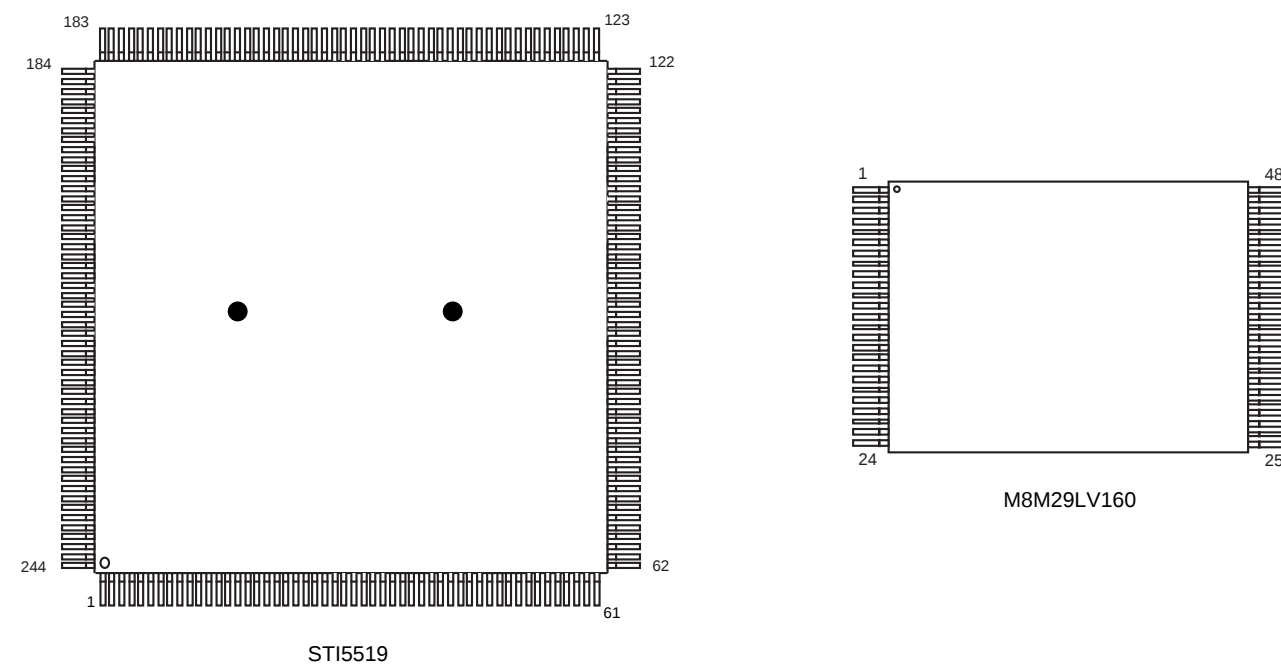
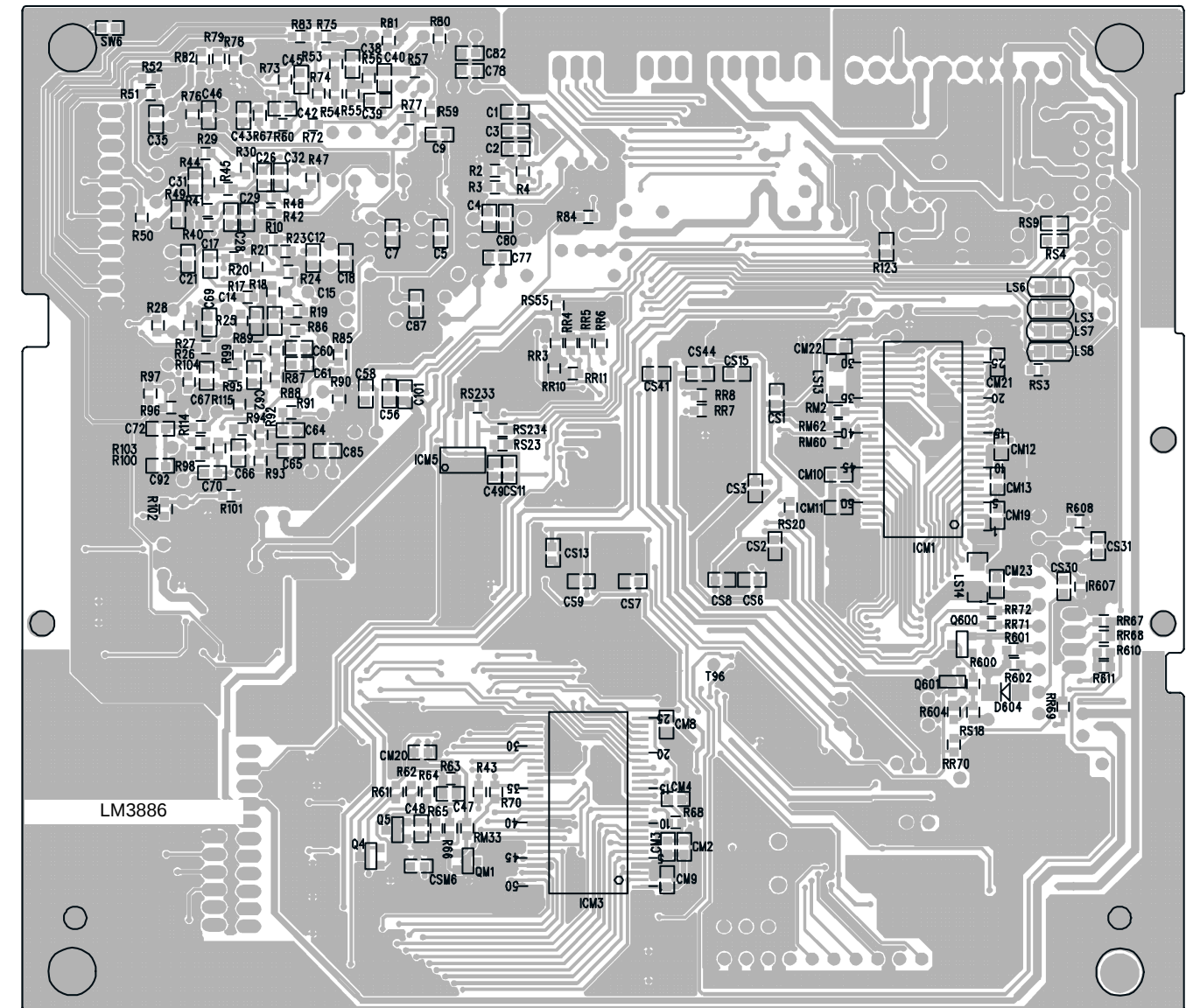
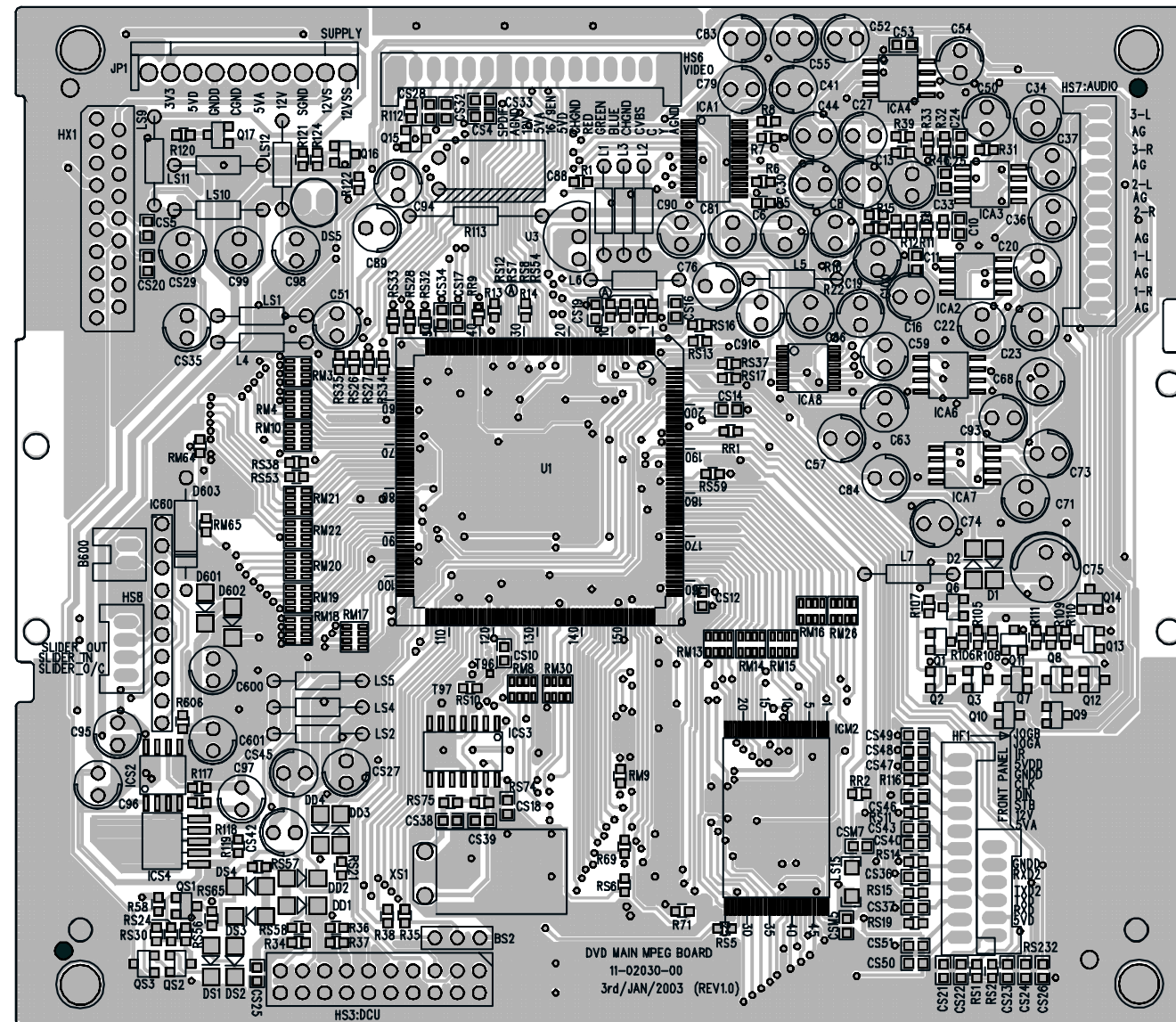
MPEG SHEMATIC DIAGRAM - SCHEMA DE LA PLATINE MPEG - SCHALTBILD MPEG - SCHEMA DELLA PIASTRA MPEG - ESQUEMA DE LA PLATINA MPEG (INPUT/OUTPUT PART)

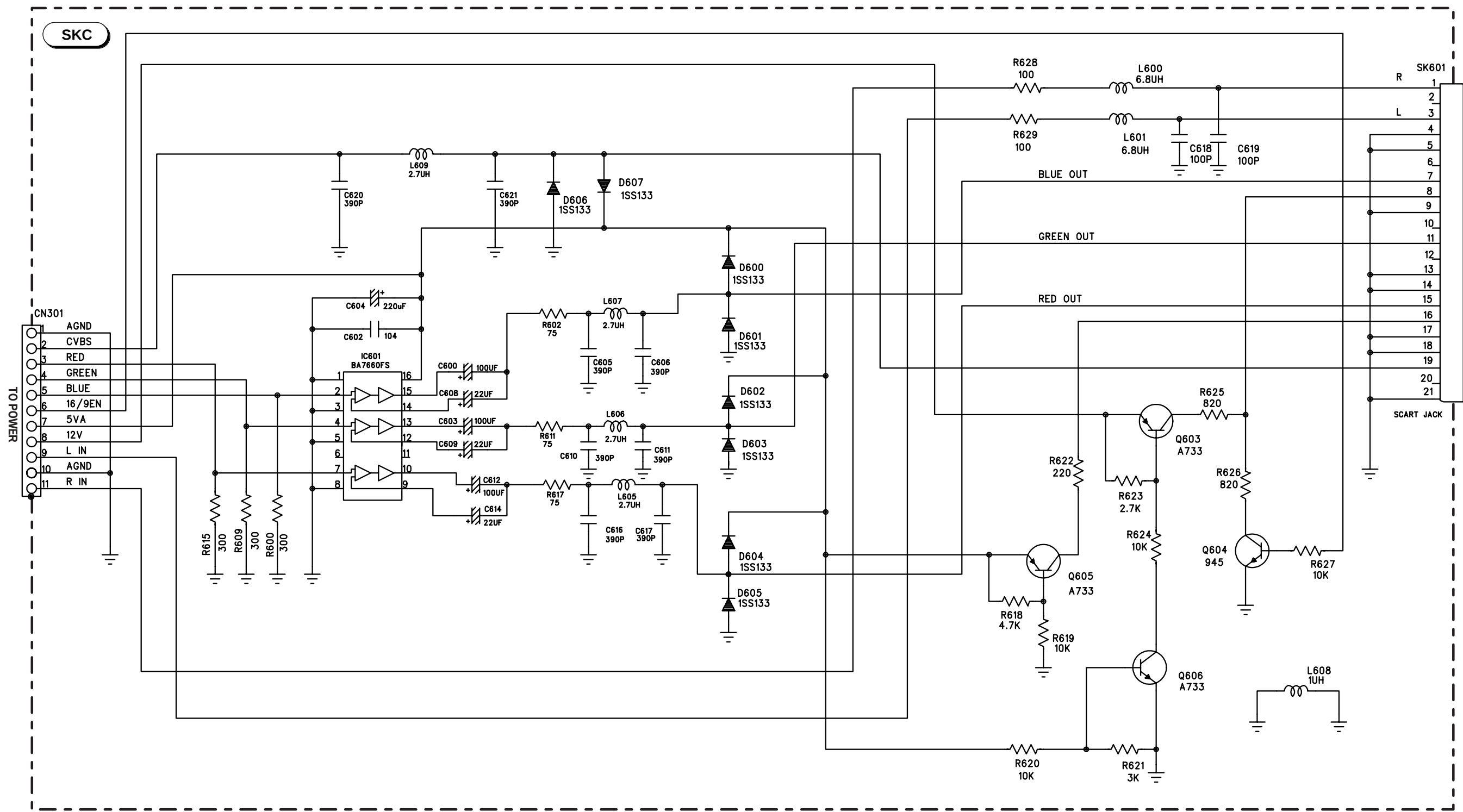


MPEG P.C.B.
Platine MPEG
Ltpl MPEG
Piastra MPEG
Platina MPEG

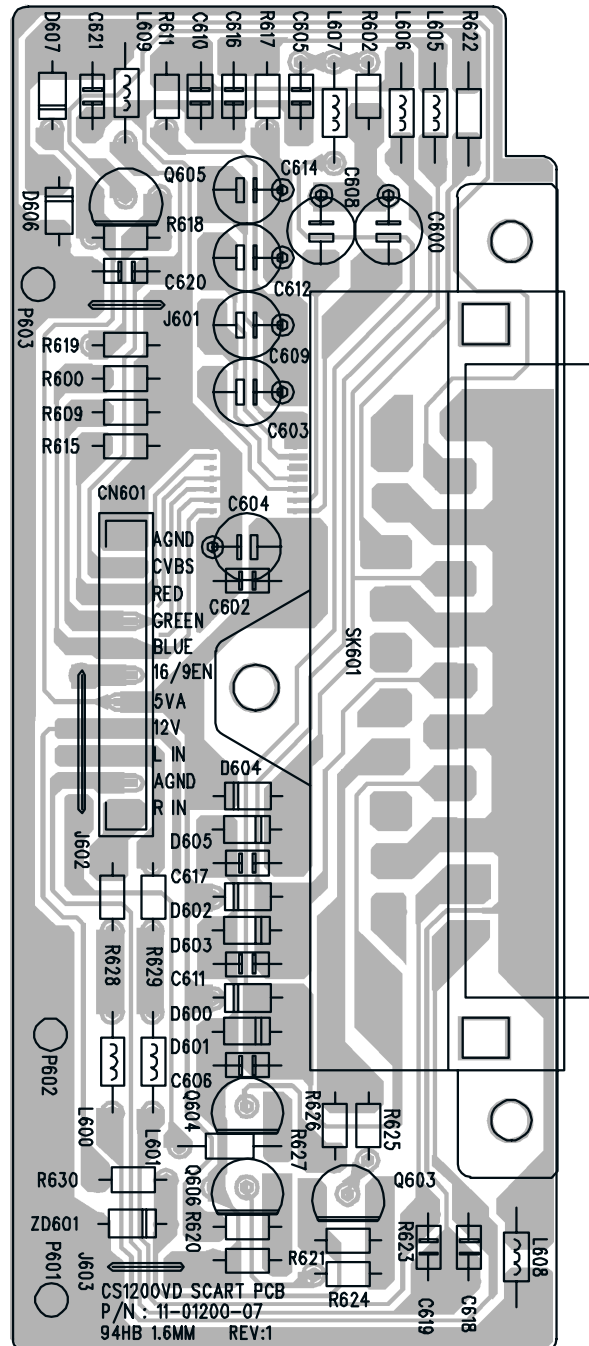
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre

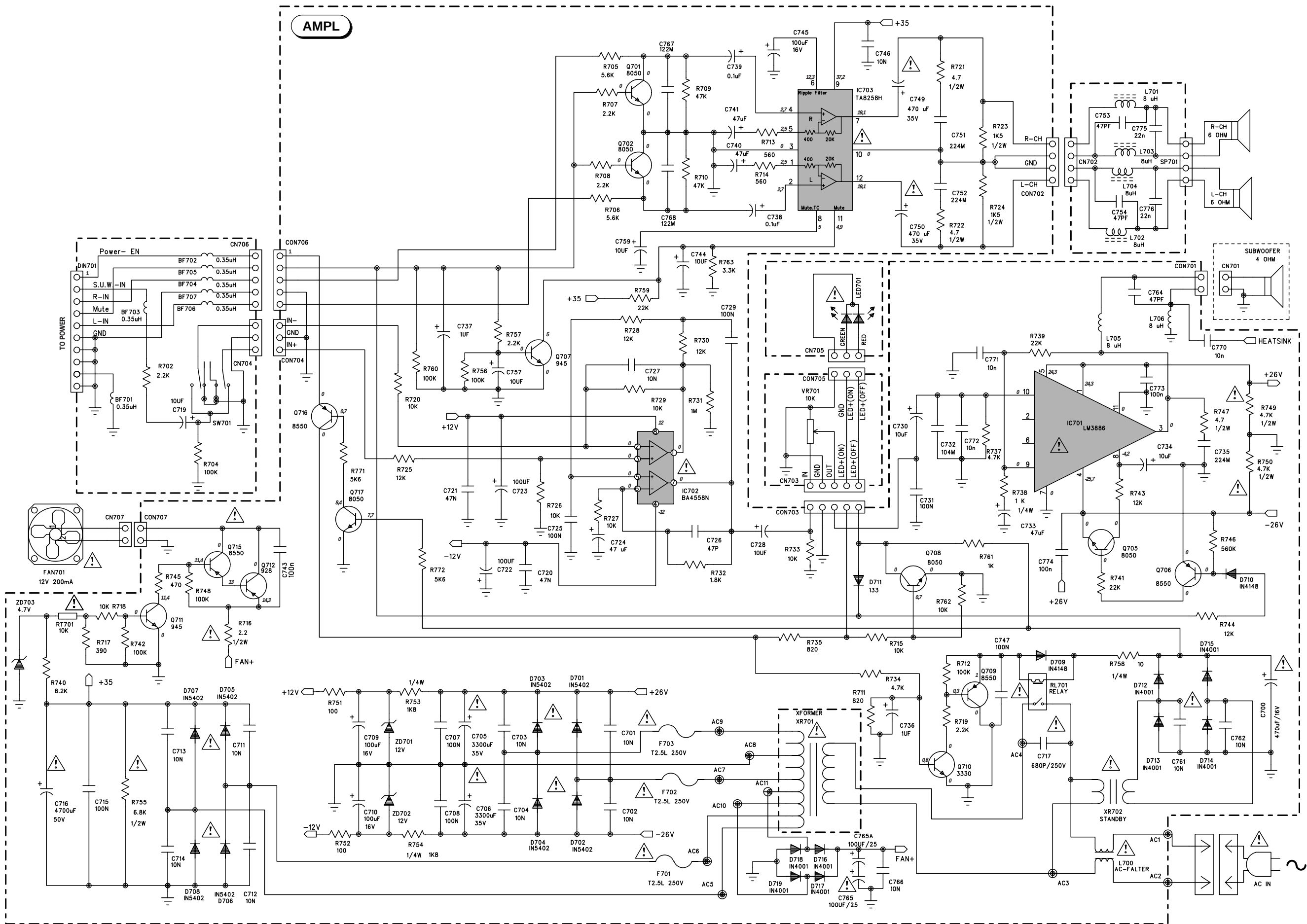




Scart interface P.C.B.
 Platine interface péritélévision
 Ltpl. Europa Normbuchse
 Piastra presa peritel
 Platina eurotoma



AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA DEL AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR
(LOUDSPEAKER BOX SUB)

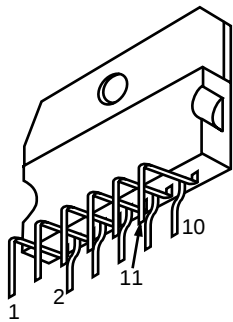
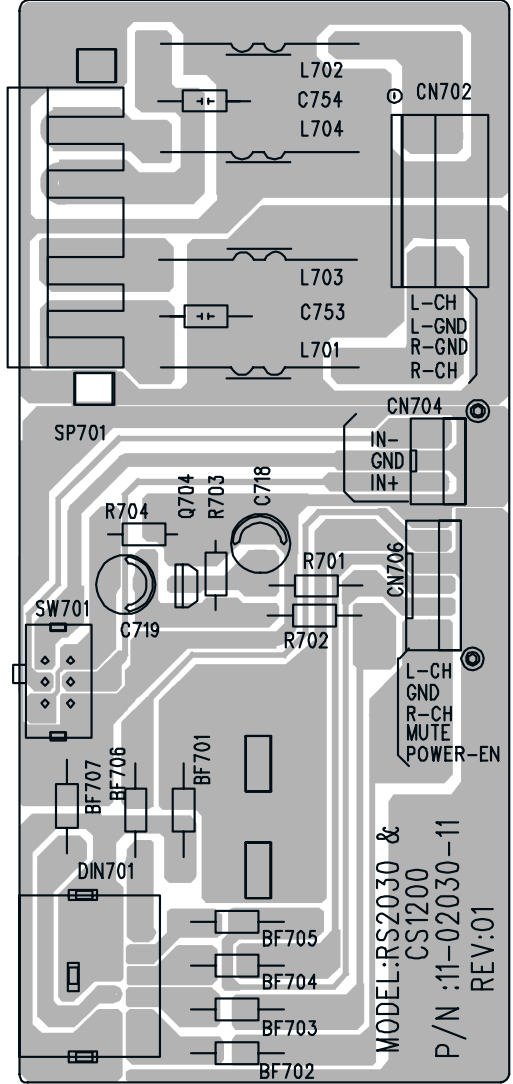
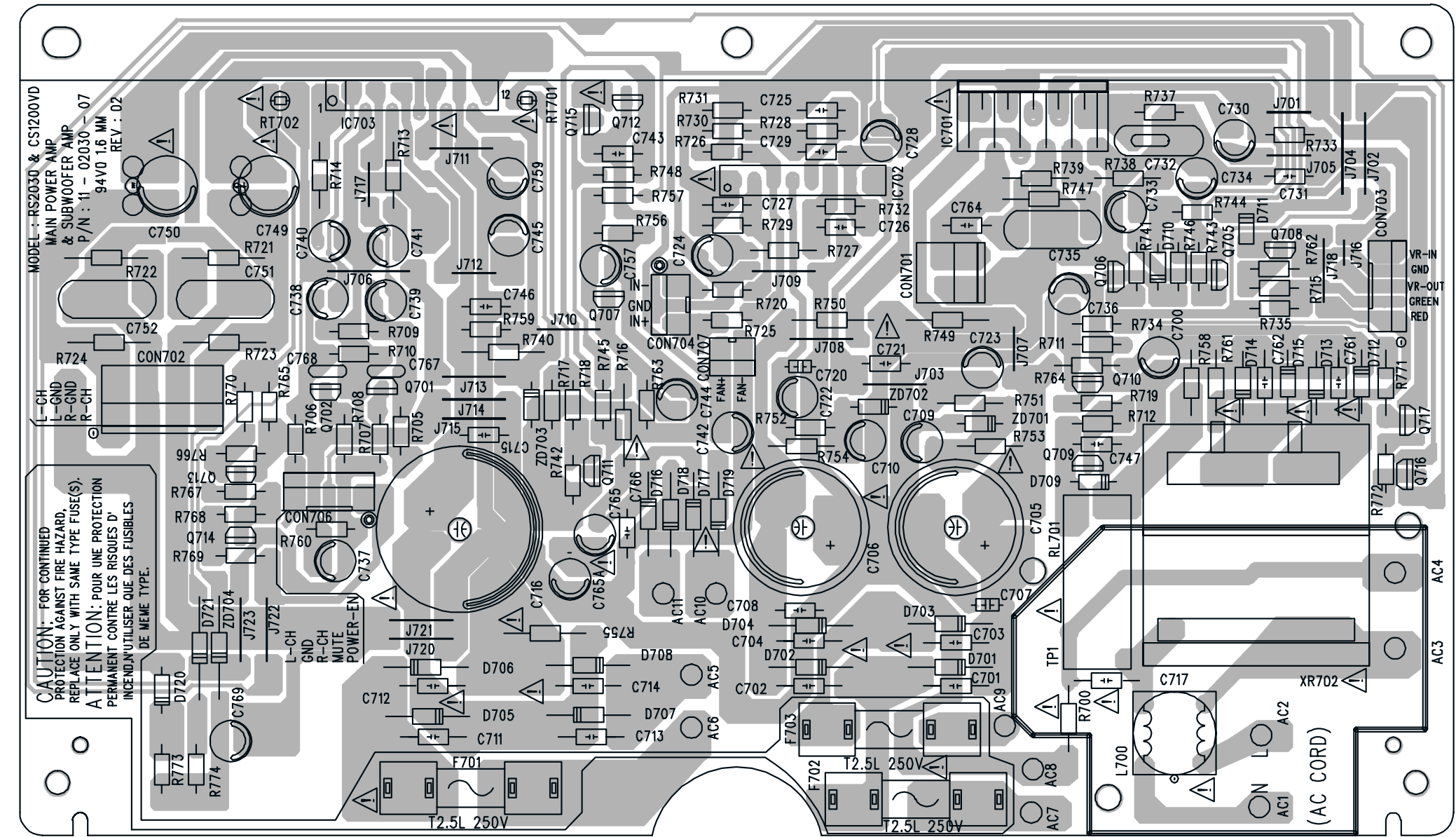


LOUDSPEAKER BOX SUB

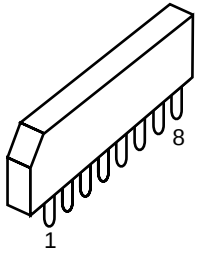
Power supply / amplifier P.C.B.
Platine alimentation / amplificateur
Ltpl. Netzteil und Endverstärker
Piastra alimentazione / amplificatore
Platina alimentación / amplificador

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

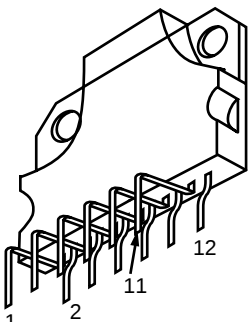
Connexion P.C.B.
Platine connexions
Anschlußplatte
Piastra connessione
Platina conexiones



LM3886



MC4558



TA8258H



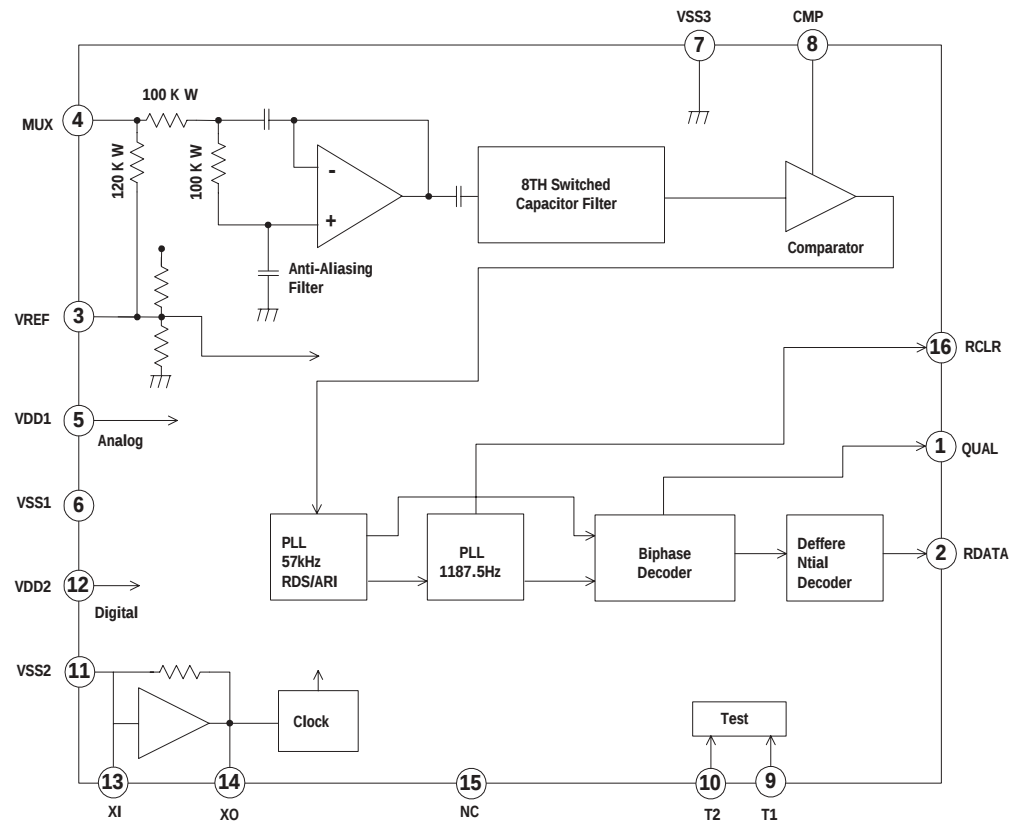
KSA928



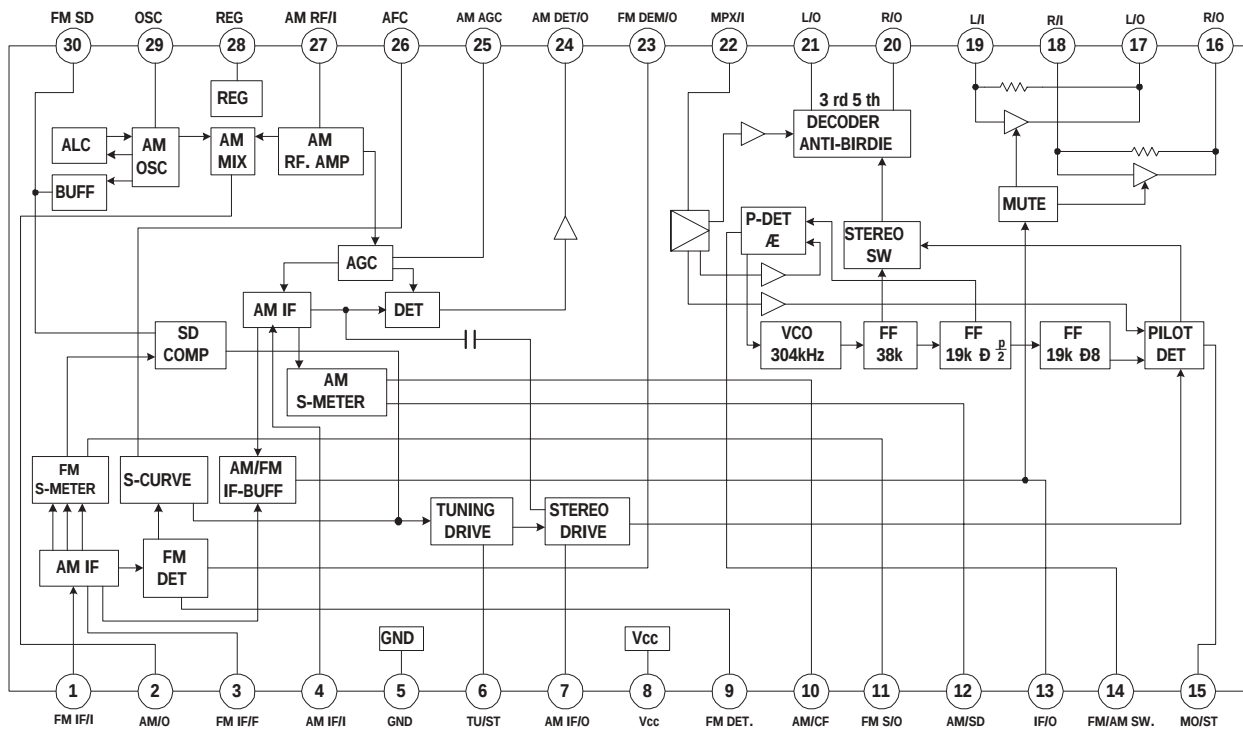
JE8050D



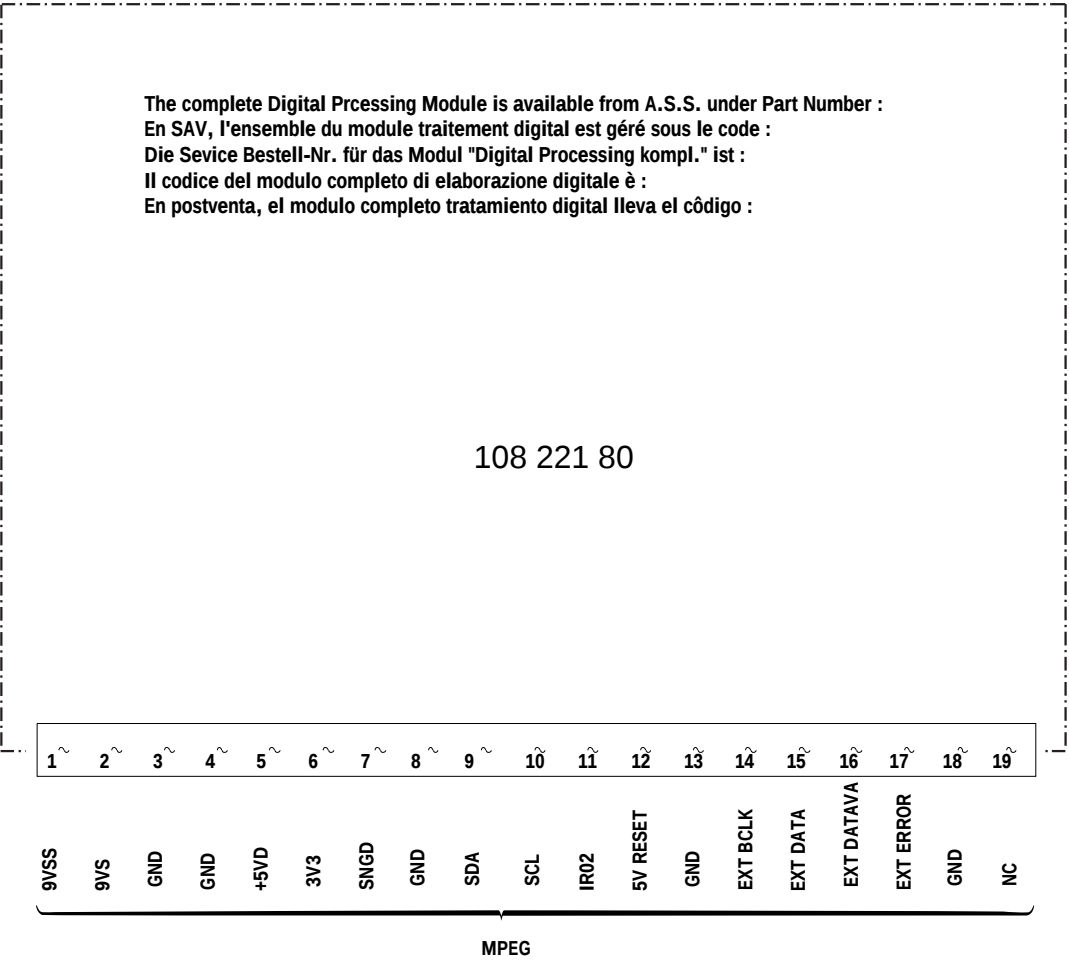
2SC333



LA1837



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



Abbreviations - Abreviations - Abkürzungen - Abbreviazioni - Abreviaciones

AC	Alternating Current	GCA	Gain Controlled Amplifier
ACC	Automatic Colour Control	HPF	High Pass Filter
AGC	Automatic Gain Control	I.R	Infra Red
A_IF	Audio IF	ID	Identification
ALC	Automatic Level Control	INP/IN	Input
AMP	Amplifier	KDB	Key Display Board
APC	Automatic Phase Control	LIM	Limiter
AV	Audio-Video	LPF	Low Pass Filter
BPF	Band Pass Filter	PCB	Printed Circuit Board
CH	Channel	PG	Pulse Generator
CLK	Clock	PLL	Phase Locked Loop
COMP	Comparator	PWM	Pulse Width Modulation
CONV	Converter	SCL	Serial Clock
CSYNC	Composite Synch	SDA	Serial Data
CTL	Control	SMPS	Switch Mode Power Supply
DC	Direct Current	SW	Switch
DET	Detector	VCA	Voltage Controlled Amplifier
DIG	Digital	VCO	Voltage Controlled Oscillator
ENV	Envelope	VD	Supply Voltage Digital
EQ	Equalizer	VE	Voltage (Ever)
FG	Frequency Generator	VS	Voltage (Switched)
GND	Ground		

This technical documentation is for use by maintenance technicians only
Documentation technique exclusivement destinée aux professionnels de la maintenance
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