

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

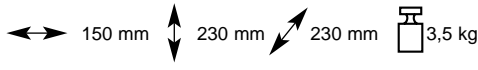




**THOMSON** AM 1280  
AM 1285

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 <b>Type d'appareil :</b> Combiné radio cassette / CD <b>Geräteart :</b> CD-Radio Cassetten Portable <b>Tipo d'apparecchio :</b> Insieme radio cassette / CD <b>Tipo de aparato :</b> Radio cassette / CD	
<b>Power supply :</b> <b>Alimentation :</b> 230 V ~ <b>Stromversorgung :</b> <b>Alimentazione :</b> <b>Alimentación :</b>	<b>Nominal output power :</b> <b>Puissance nominale de sortie :</b> 2 x 12 W (Rms) <b>Nennausgangsleistung :</b> 2 x 30 W (Music.) <b>potenza nominale di uscita :</b> <b>Potencia nominal de salida :</b>
 <b>FM - MF :</b> 87.5 - 108 MHz <b>MW - PO :</b> 522 - 1620 kHz <b>LW - GO :</b> 150 - 283 kHz	<b>Sensitivity :</b> <b>Sensibilité :</b> FM - MF : 8 µV (S/N = 30 dB) <b>Empfindlichkeit :</b> MW - PO : 1000 µV/m (S/N = 20 dB) <b>Sensibilità :</b> LW - GO : 2500 µV/m (S/N = 20 dB) <b>Sensibilidad :</b>
 <b>Frequency response :</b> <b>Courbe de réponse :</b> 125 Hz - 6,3 kHz <b>Frequenzgang :</b> (+5 / - 5 dB) <b>Curva di risposta :</b> <b>Curva de respuesta :</b>	<b>Signal to noise ratio :</b> <b>Rapport signal / bruit :</b> 42 dB <b>Geräuschspannungsabstand :</b> <b>Rapporto segnale / disturbo :</b> <b>Relación señal / ruido :</b>
 <b>Wow and flutter :</b> <b>Fluctuations :</b> 0,35 % <b>Gleichlauf :</b> <b>Fluttuazioni :</b> <b>Fluctuaciones :</b>	
<b>DAD</b> <b>Disc rotation speed :</b> <b>Vitesse de rotation du disque :</b> 200 → 500 tr/m <b>CD-Drehgeschwindigkeit :</b> <b>Velocità di rotazione del disco :</b> <b>Velocidad de rotación del disco :</b>	<b>Frequency response :</b> <b>Courbe de réponse :</b> 100 Hz - 16kHz <b>Frequenzgang :</b> (-4/+2 dB) <b>Curva di risposta :</b> <b>Curva de respuesta :</b>
<b>Stereo separation :</b> <b>Diaphonie :</b> 45 dB <b>Übersprechdämpfung :</b> <b>Diafonia :</b> <b>Diafonia :</b>	<b>Signal to noise ratio :</b> <b>Rapport signal / bruit :</b> 54 dB <b>Geräuschspannungsabstand :</b> <b>Rapporto segnale / disturbo :</b> <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 : 355 857 20 - 1002 / 3,7M - CRKD2102 Print.**



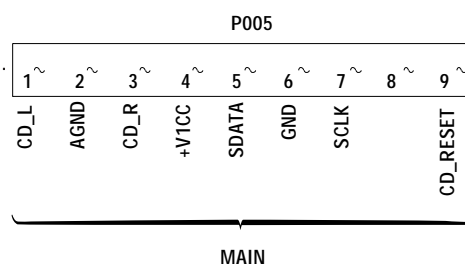
**CLASS 1 LASER PRODUCT**  
**APPAREIL A LASER DE CLASSE 1**  
**LASER KLASSE 1**  
**APPARECCHIO CON LASER DI CLASSE 1**  
**APARATO CON LASER DE CLASE 1**

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

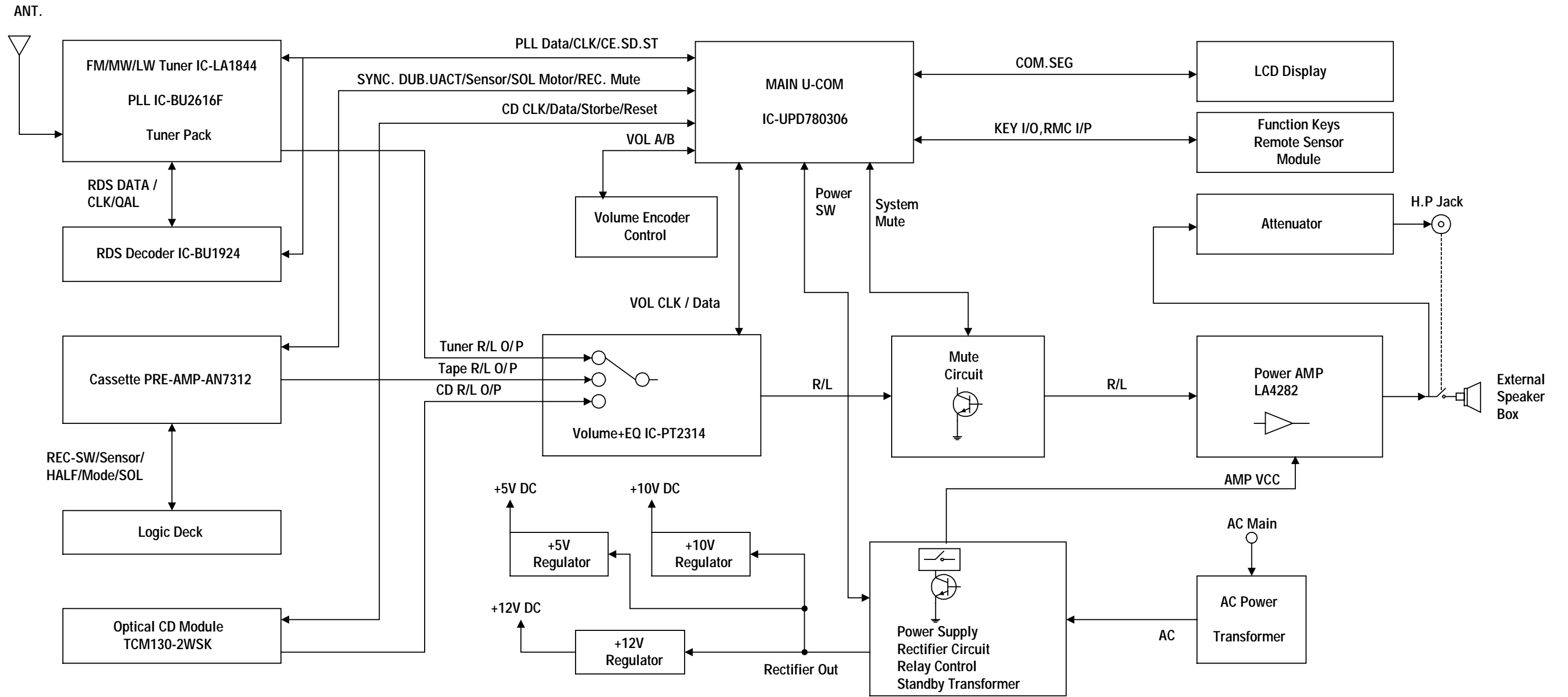
## DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

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 :

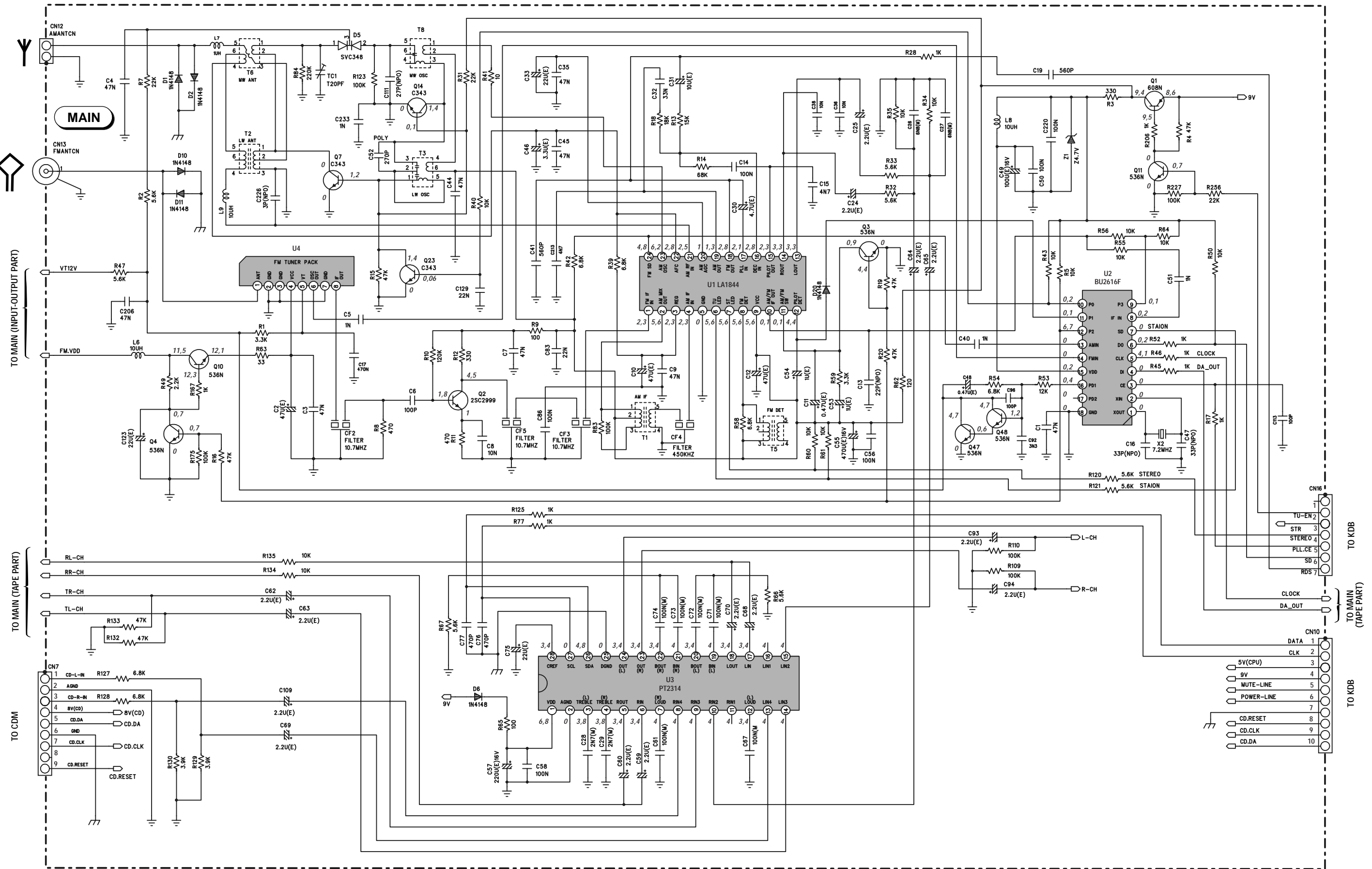
107 284 40



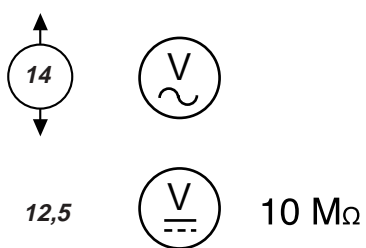
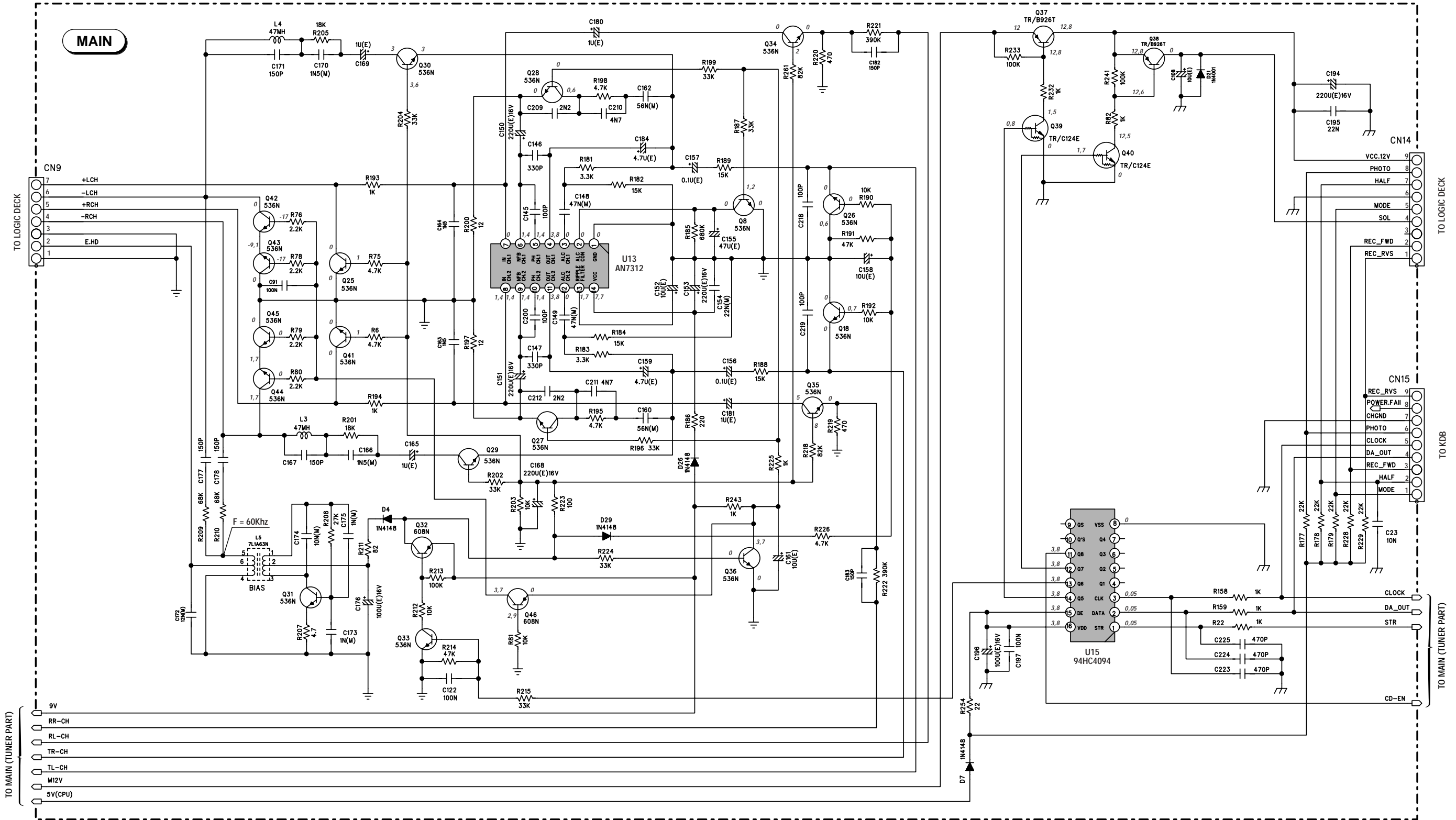
BLOCK DIAGRAM - SCHÉMA SYNOPTIQUE - BLOCKSCHALTBIID - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



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

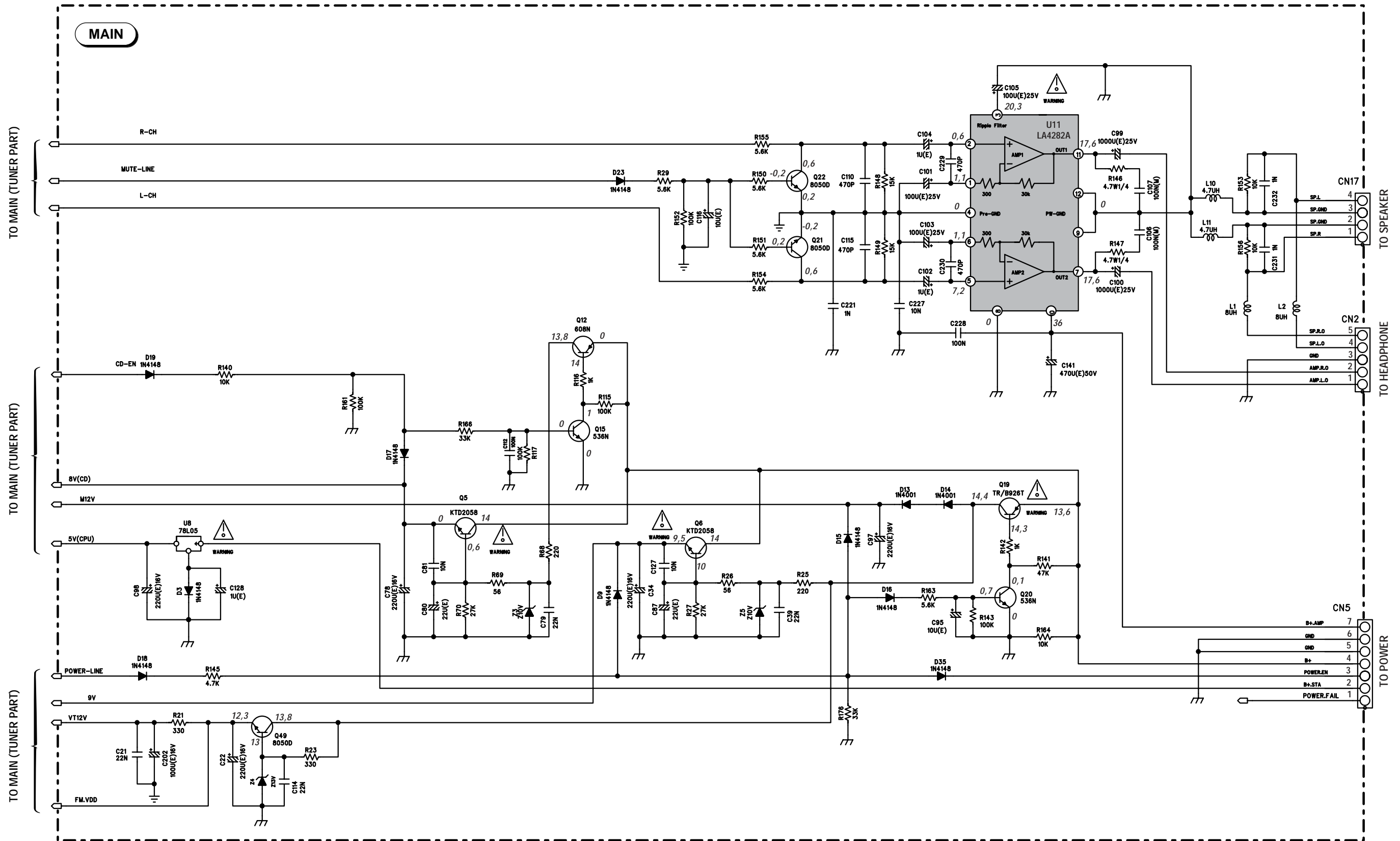


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - SCHALTBILD GRUNDPLATTE - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (TAPE PART)



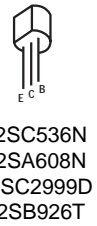
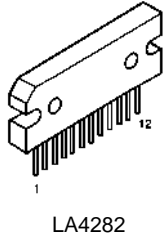
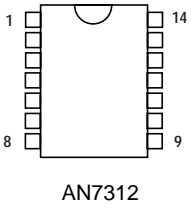
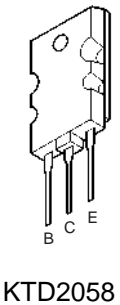
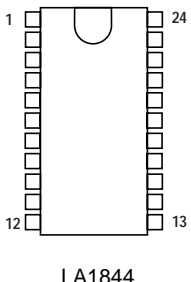
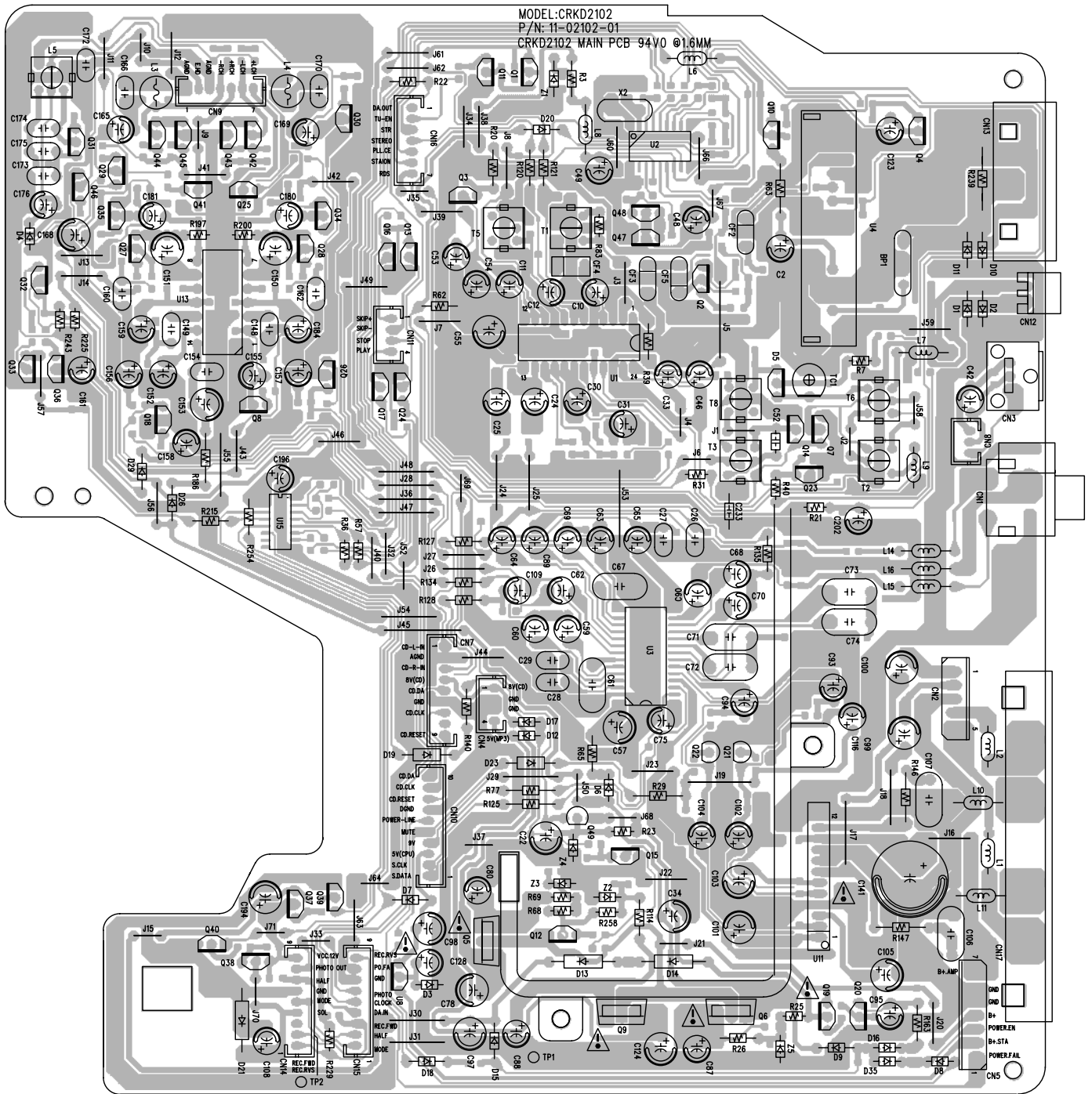
	↑			↓		
	E	B	C	E	B	C
Q31	0,1	5,6	0	0,1	-0,4	6
Q32	8,6	9,2	9,3	0	9,3	9,3
Q33	0	0	0,7	0	9,9	0

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



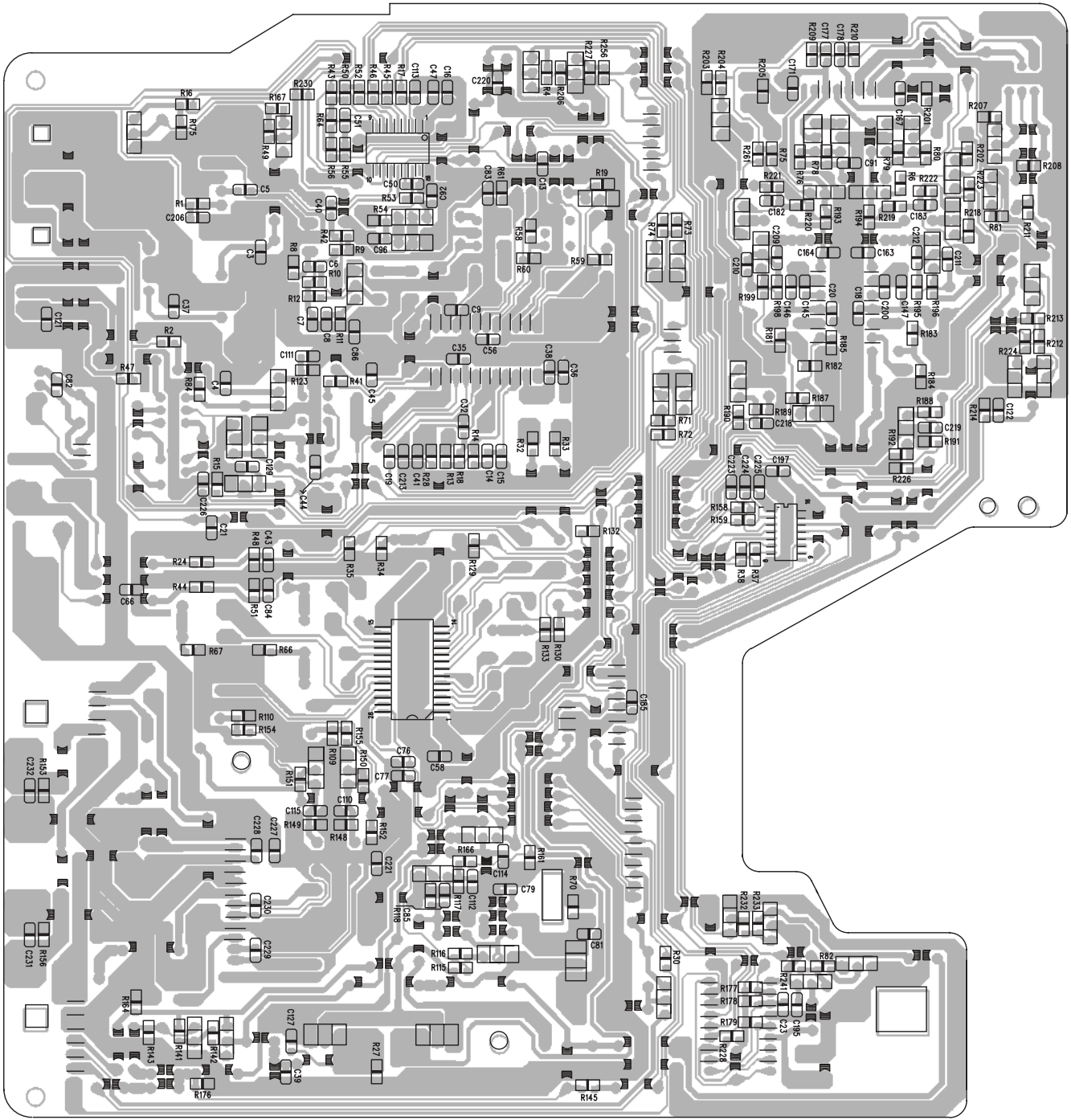
Main P.C.B.  
 Platine principale  
 Grundplatte  
 Piastra principale  
 Platina principal

Component side  
 Côté composants  
 Bestückungsseite  
 Lato componenti  
 Lado componentes

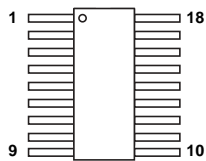


- 2SC536N
- 2SA608N
- 2SC2999D
- 2SB926T

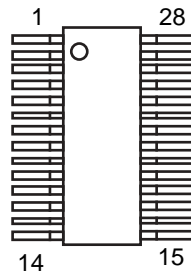
Solder side  
 Côté soudure  
 Lötseite  
 Lato saldature  
 Lado del cobre



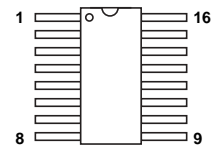
DTC343TS  
 DTC124ES



BU2616F



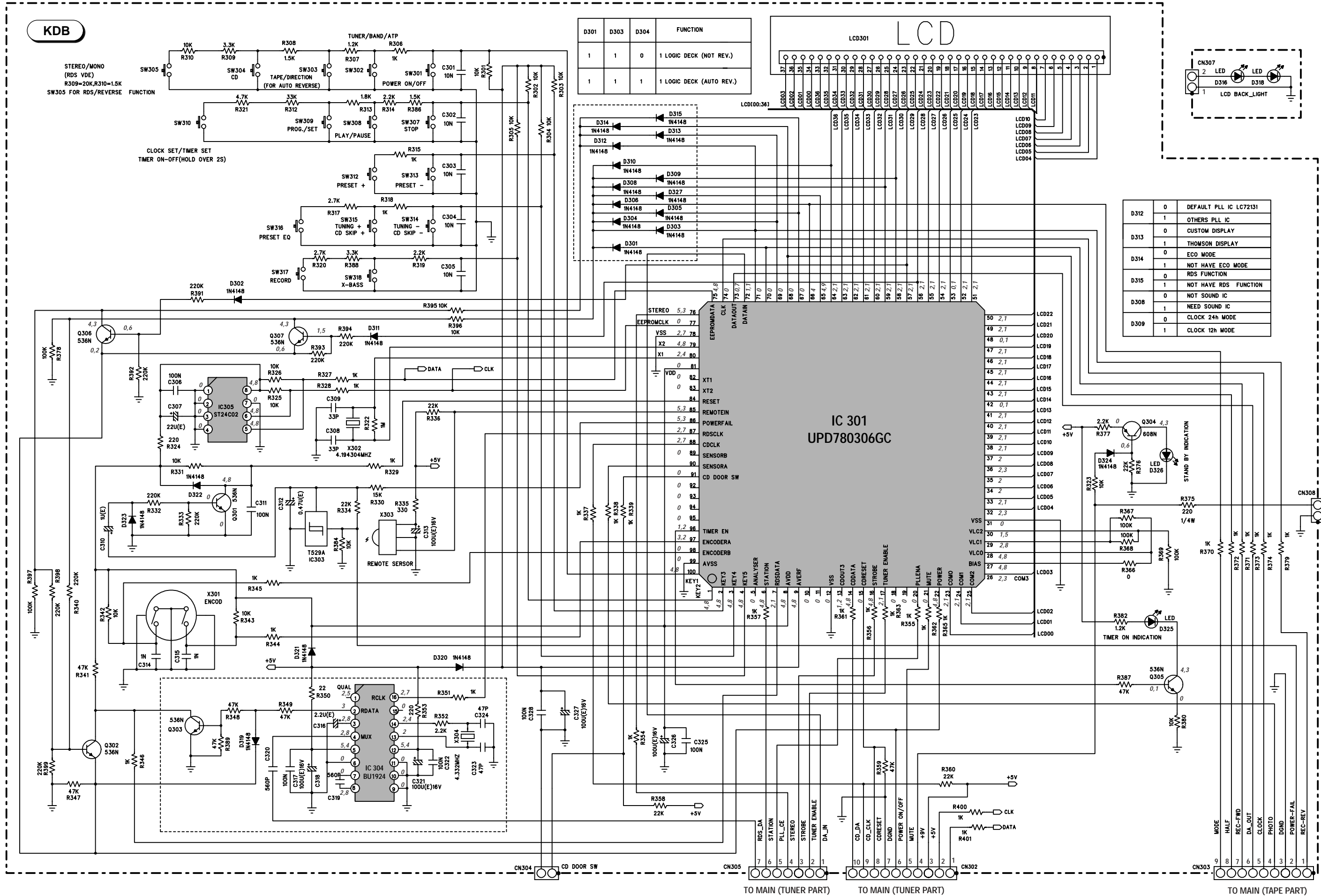
PT2314



HC4094



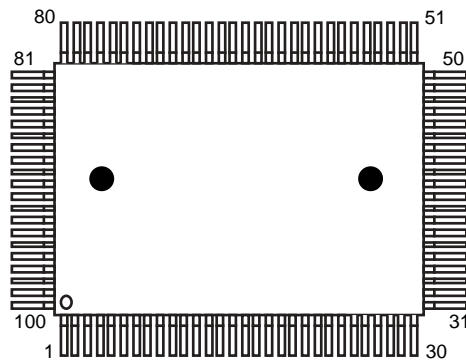
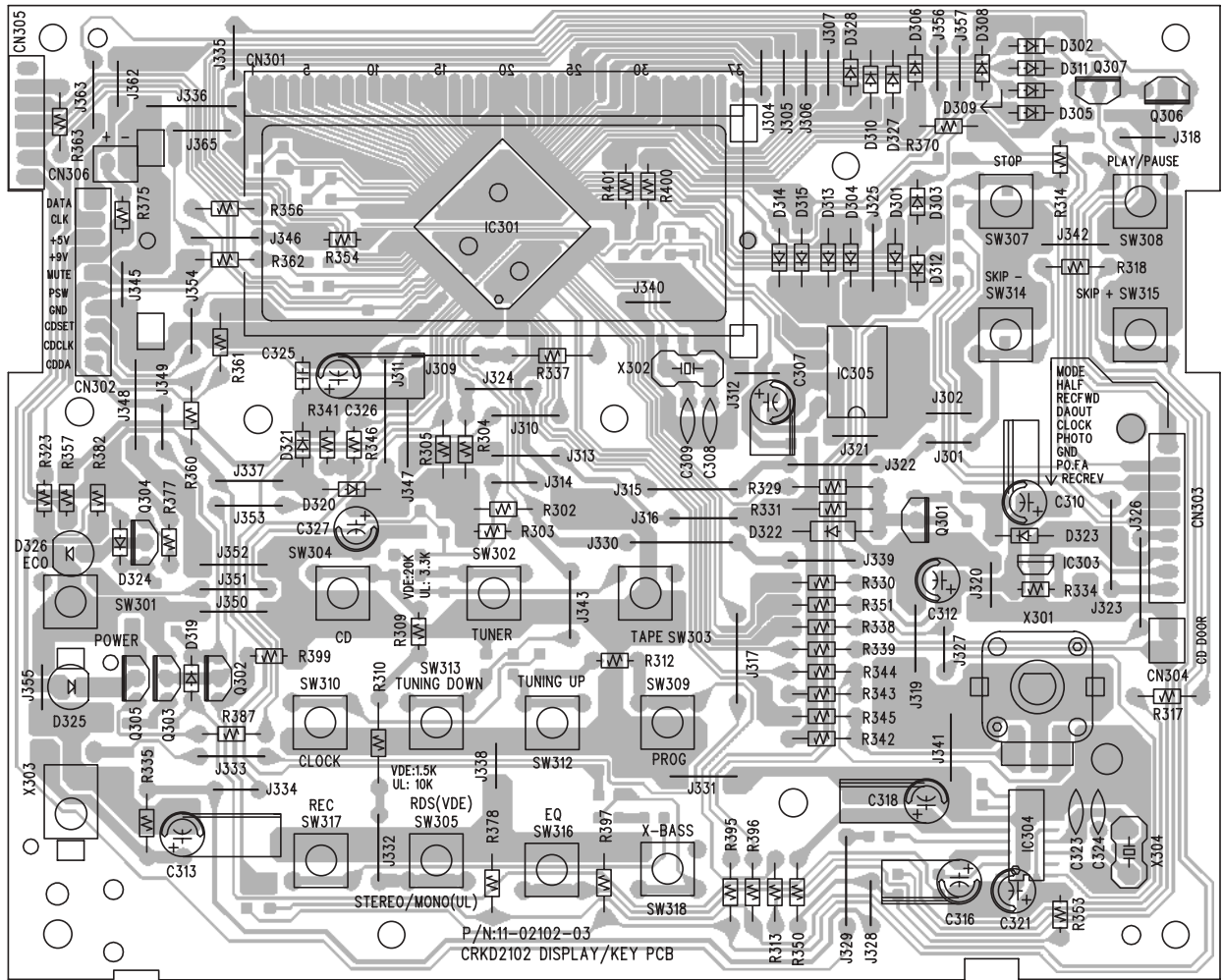
CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



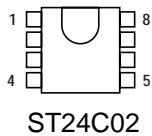
D301	D303	D304	FUNCTION
1	1	0	1 LOGIC DECK (NOT REV.)
1	1	1	1 LOGIC DECK (AUTO REV.)

D312	0	DEFAULT PLL IC LC72131
D312	1	OTHERS PLL IC
D313	0	CUSTOM DISPLAY
D313	1	THOMSON DISPLAY
D314	0	ECO MODE
D314	1	NOT HAVE ECO MODE
D315	0	RDS FUNCTION
D315	1	NOT HAVE RDS FUNCTION
D308	0	NOT SOUND IC
D308	1	NEED SOUND IC
D309	0	CLOCK 24h MODE
D309	1	CLOCK 12h MODE

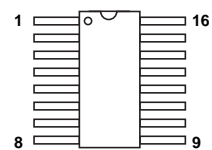
**Controls / display P.C.B.**  
**Platine commandes / afficheurs**  
**Ltpl. Bedienteil / Anzeige**  
**Piastra comandi / indicatori**  
**Platina de mandos / indicadores**



UPD780306GC



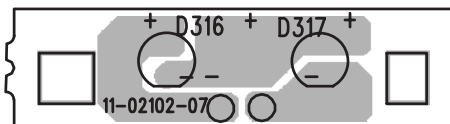
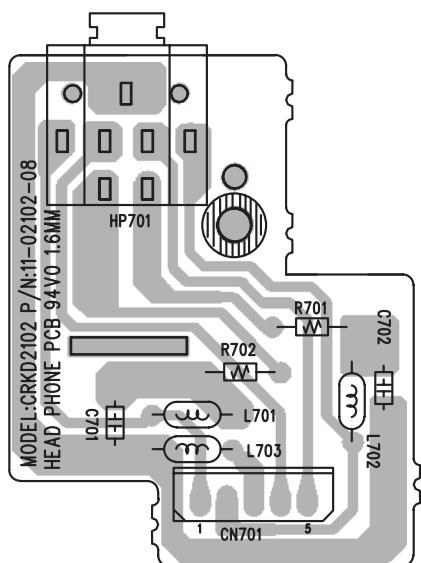
ST24C02



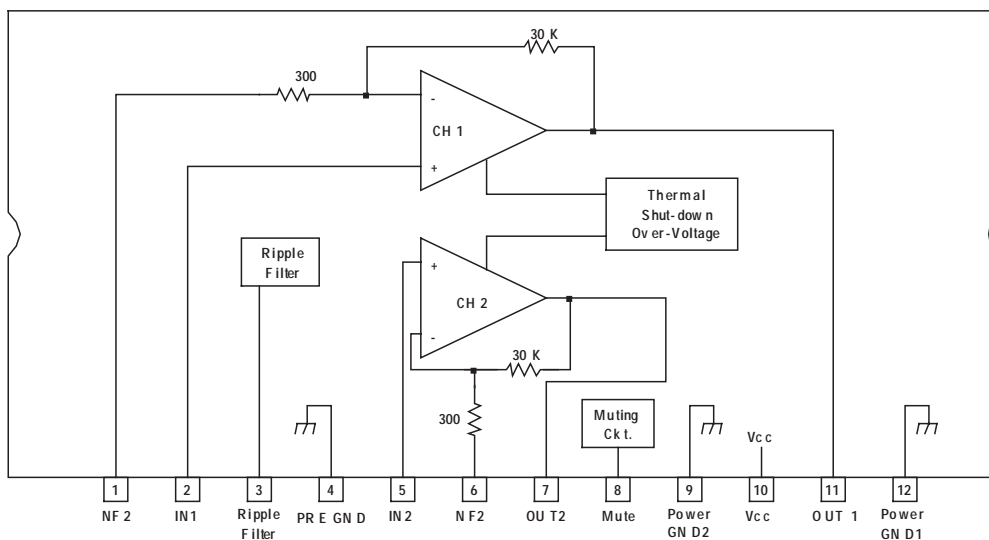
BU1924F

Headphone-jack P.C.B.  
 Platine prise-casque  
 Ltpl.Kopfhörerbuchse  
 Piastra presa per cuffia  
 Platina toma auriculares

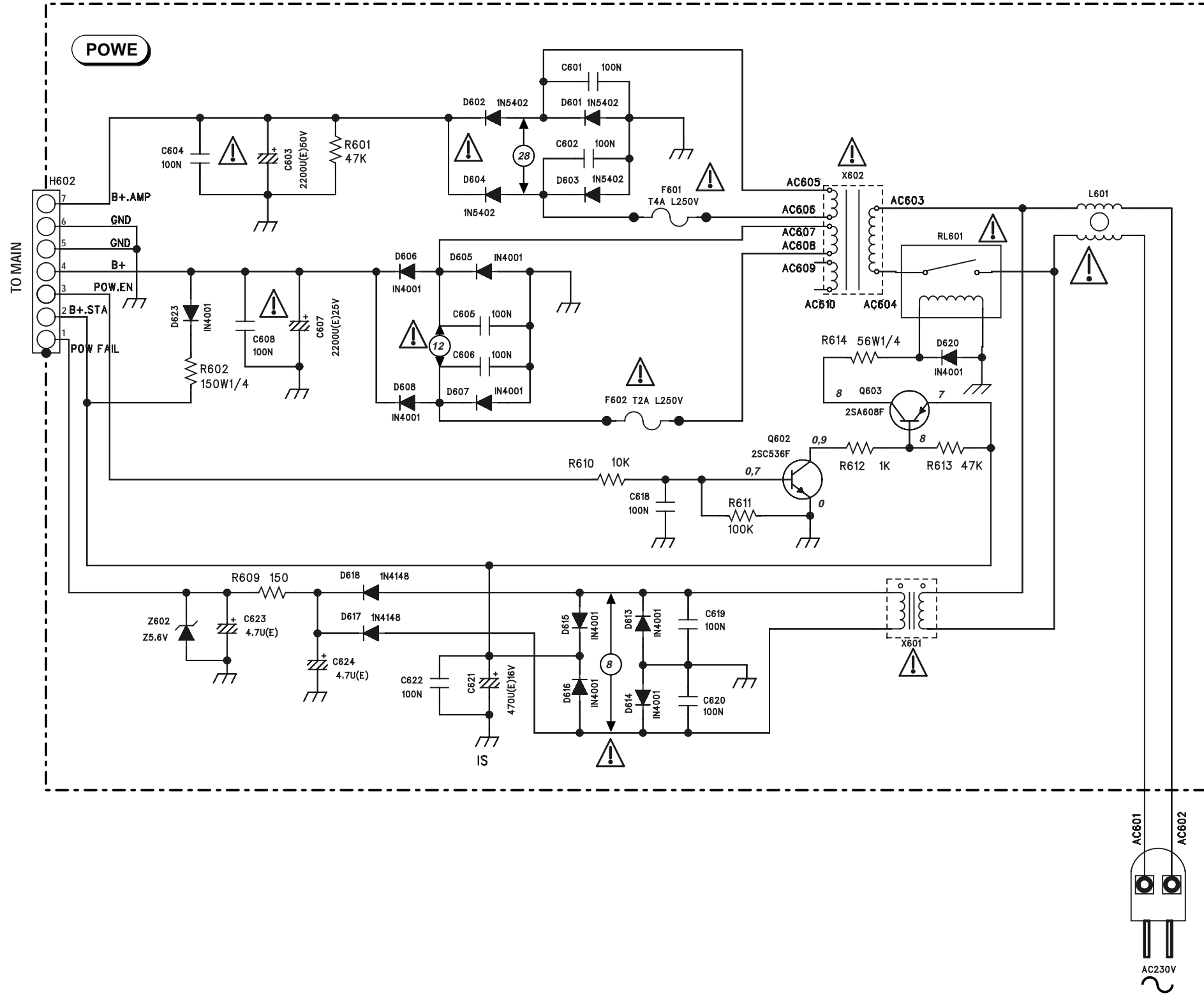
IR receiver P.C.B.  
 Platine récepteur IR  
 Ltpl. IR Empfänger  
 Piastra ricevitor IR  
 Platina receptor IR



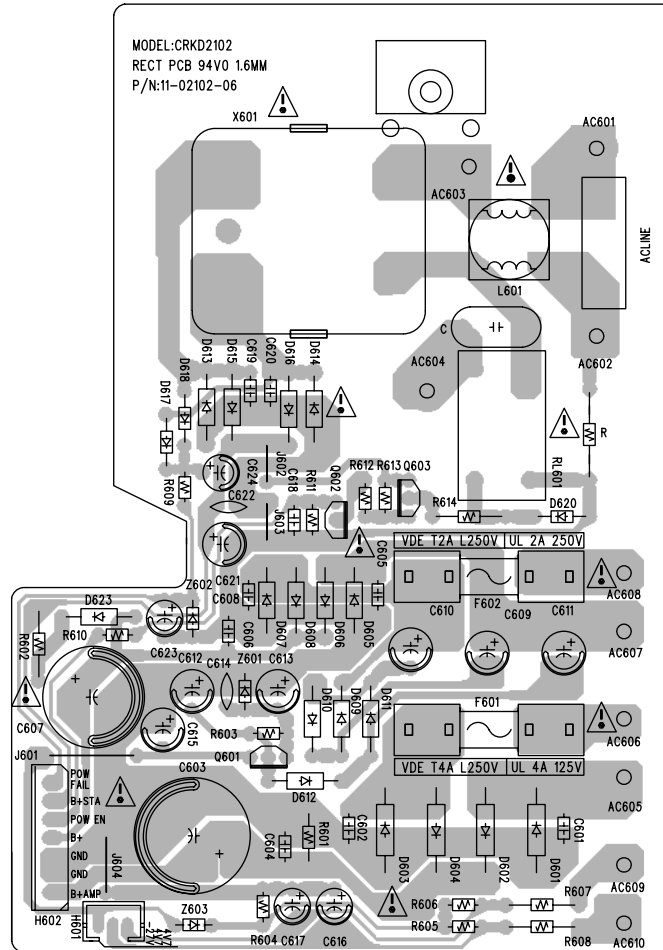
U11 LA4282
























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










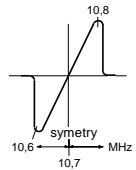






Power unit P.C.B.  
 Platine secteur  
 Ltpl. Netzanschluss  
 Piastra di rete  
 Platina de red



# ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

AM alignment						
		   or TP	f	 18888 KHZ	 	  
IF	1		450 kHz	450 kHz	T1	 Maximum output
MW	2		522 kHz	522 kHz	T8	 Vt V = 1,2V +/-0,1V
	3		1620 kHz	1620 kHz		 Vt V = 7,9 +/-0,5V
LW	4		150 kHz	150 kHz	T3	 Vt V = 2,4V +/-0,1V
	5		283 kHz	283 kHz		 Vt V = 7 +/-0,5V
MW	6	 	603 kHz	603 kHz	T6	 Maximum output
	7		1404 kHz	1404 kHz	TC1	
LW	8	 	164 kHz	164 kHz	T2	 Maximum output
	9		272 kHz	272 kHz		 Maximum output

FM alignment						
		   or TP	f	 18888 KHZ	 	  
IF	1		10.7 MHz	10.7 MHz	T5	Max. 
FM	2		87.5 MHz	87.5 MHz		 Vt V = 1,6V +/-0,1V
	3		108 MHz	108 MHz		 Vt 7,3 < V < 8,2