

SERVICE MANUAL DOCUMENTATION TECHNIQUE TECHNISCHE DOKUMENTATION DOCUMENTAZIONE TECNICA DOCUMENTACION TECNICA

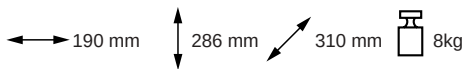
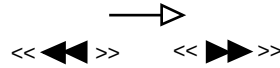
CS190

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

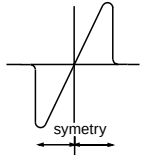
Type of set: Two-in-one horizontale combination/DAD Type d'appareil: Ensemble compact stéréophonique Geräteart: DAD-2er Horizontal Kompaktanlage Tipo d'apparecchio: Compatto HiFi/CD Tipo de aparato: Equipo compacto estereofónico/DAD			
Power supply: Alimentation: Stromversorgung: 230 V ~ 50Hz Alimentazione: Alimentación:		Nominal output power: Puissance nominale de sortie: Nennausgangsleistung: 2 x 100W (rms) Potenza nominale di uscita: 2 x 300W (music) Potencia nominal de salida:	
	FM - MF: 87.5 - 108 MHz MW - PO: 522 - 1611 kHz LW - GO: 150 - 283 kHz	Sensitivity: Sensibilité: FM - MF: 8µV (S/N = 26 dB) Empfindlichkeit: MW - PO: 1000µV/m (S/N = 20 dB) Sensibilità: LW - GO: 2500µV/m (S/N = 20 dB) Sensibilidad:	
	Frequency response: Courbe de réponse: Frequenzgang: 125 Hz - 6.3 kHz Curva di risposta: (5 dB) Curva de respuesta:	Signal to noise ratio: Rapport signal / bruit: Geräuschspannungabstand: 38 dB Rapporto segnale / disturbo: Relación señal / ruido:	
	Wow and flutter: Fluctuations: Gleichlauf: 0,3% Fluttuazioni: Fluctuaciones:	Signal to noise ratio: Rapport signal / bruit: Geräuschspannungabstand: 4,75 cm/s Rapporto segnale / disturbo: C60: 170s Relación señal / ruido:	
DAD	Disc rotation speed: Vitesse de rotation du disque: CD-Drehgeschwindigkeit: 200 → 500 tr/mn Velocità di rotazione del disco: Velocidad de rotación del disco:	Frequency response: Courbe de réponse: Frequenzgang: 60 Hz - 16 kHz Curva di risposta: (-3 dB) Curva de respuesta:	
	Stereo separation : Diaphonie : Übersprechdämpfung : 40 dB Diafonia : Diafonía :	Signal to noise ratio: Rapport signal / bruit: Geräuschspannungabstand: 60 dB Rapporto segnale / disturbo: Relación señal / ruido:	



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.

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

AM alignment						
		 	f		 	  
IF	1		450 kHz		T201	Max.
Osc	2	MW	522 kHz		L206	$V_t = 1.1 \pm 0.1 \text{ V}$
	3		1620 kHz			$V_t = 7.5 \pm 0.5 \text{ V}$
	4	LW	150 kHz		L205	$V_t = 1.8 \pm 0.1 \text{ V}$
	5		283 kHz			$V_t = 5.5 \pm 0.5 \text{ V}$
MW	6	 	603 kHz	603 kHz	MW coil	Max.
	7		1404 kHz	1404 kHz	TC203	
LW	8	$V_e = 1 \text{ mV}$	164 kHz	164 kHz	LW coil	Max.
	9		272 kHz	272 kHz	TC202	

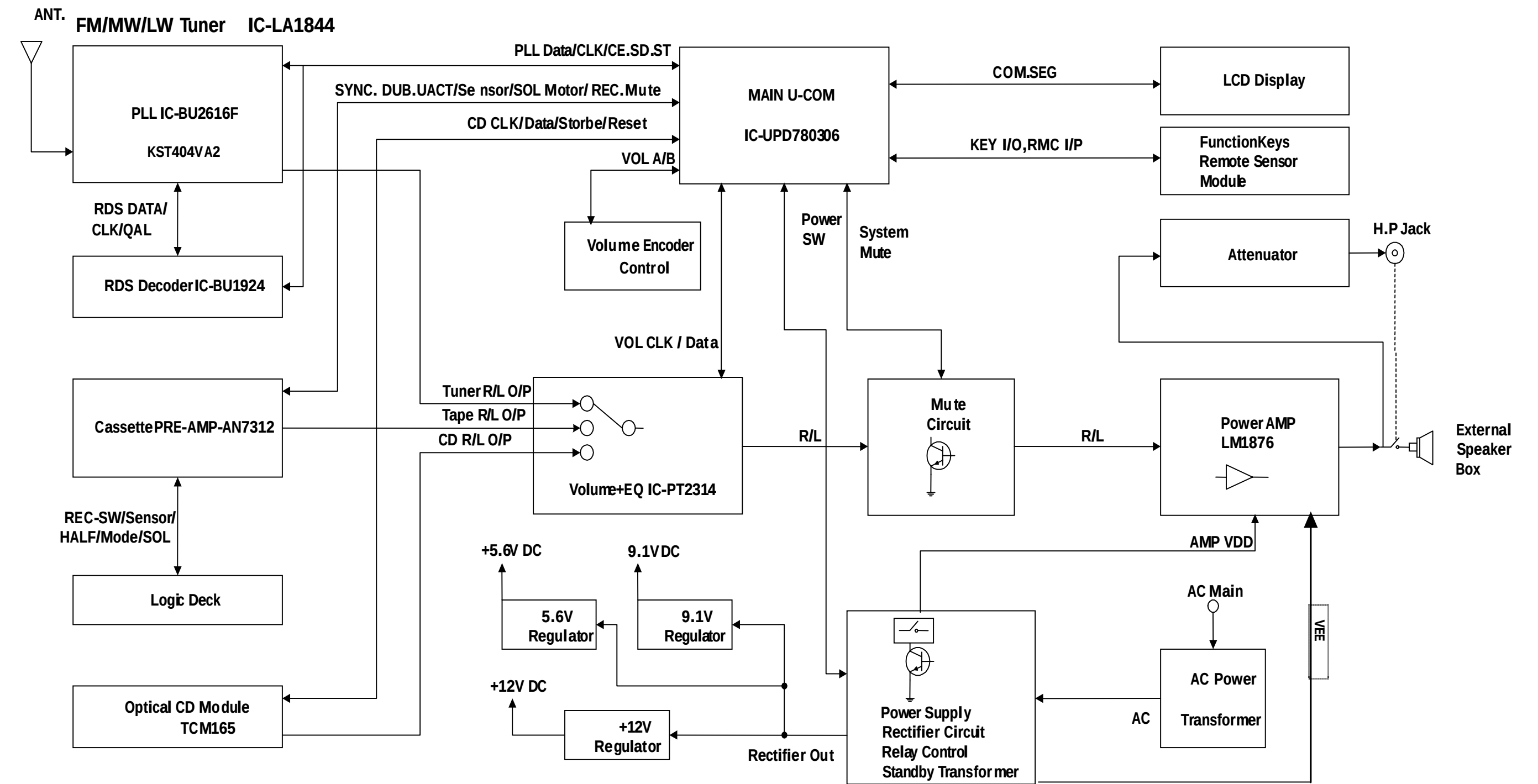
FM alignment						
		 	f		 	  
IF	1	 $V_e = 1 \text{ mV}$	10.7 MHz			Max. 
Osc	2	 $V_e = 1 \text{ mV}$	87.5 MHz		L202	$V_t = 2.0 \pm 0.1 \text{ V}$
	3		108 MHz			$V_t = 7.0 \pm 0.5 \text{ V}$
RF	4	 $V_e = 1 \text{ mV}$	90.1 MHz	90.1 MHz	L201	Max.
	5		106.1 MHz	106.1 MHz	TC201	

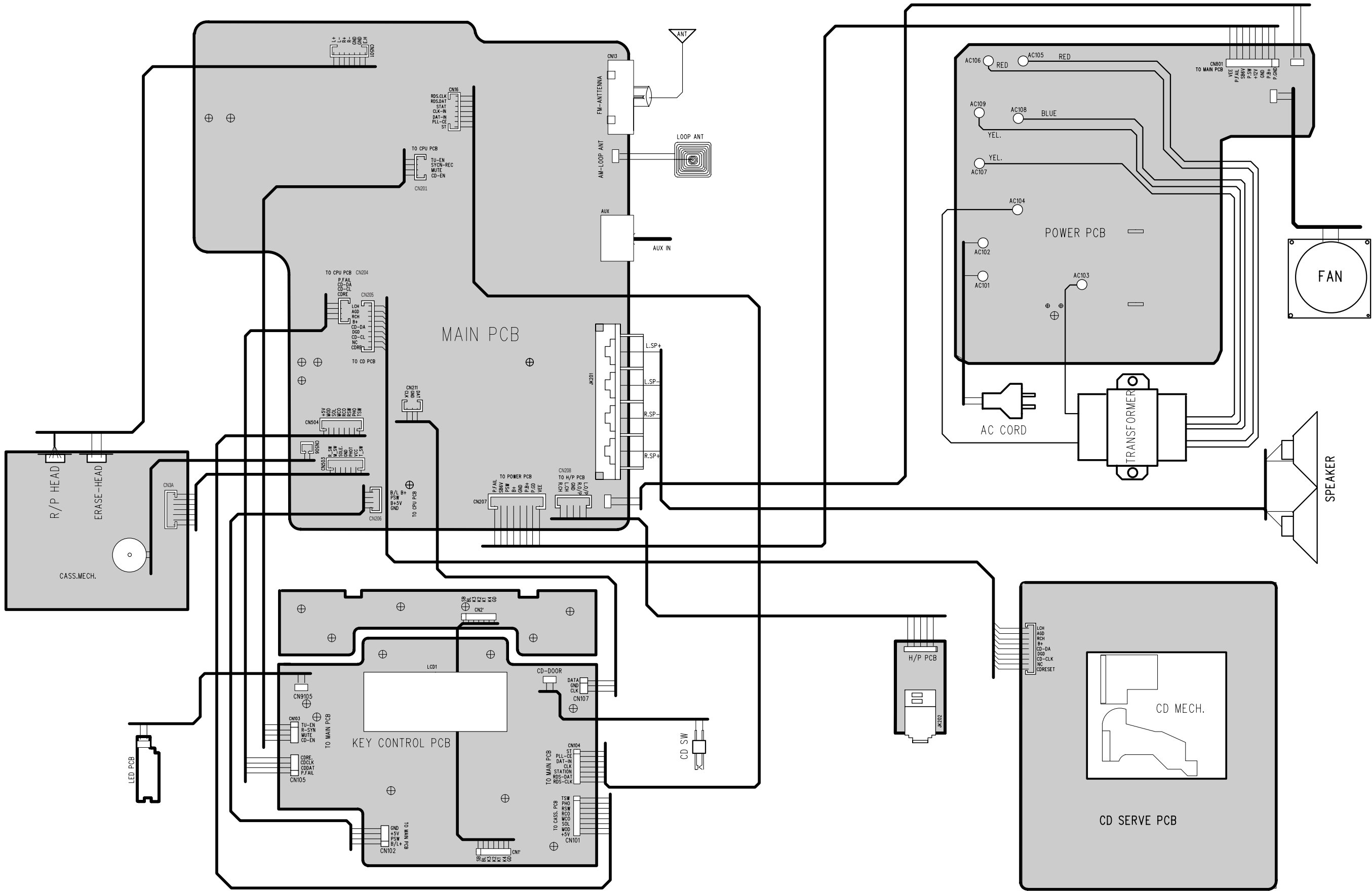
DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

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 :

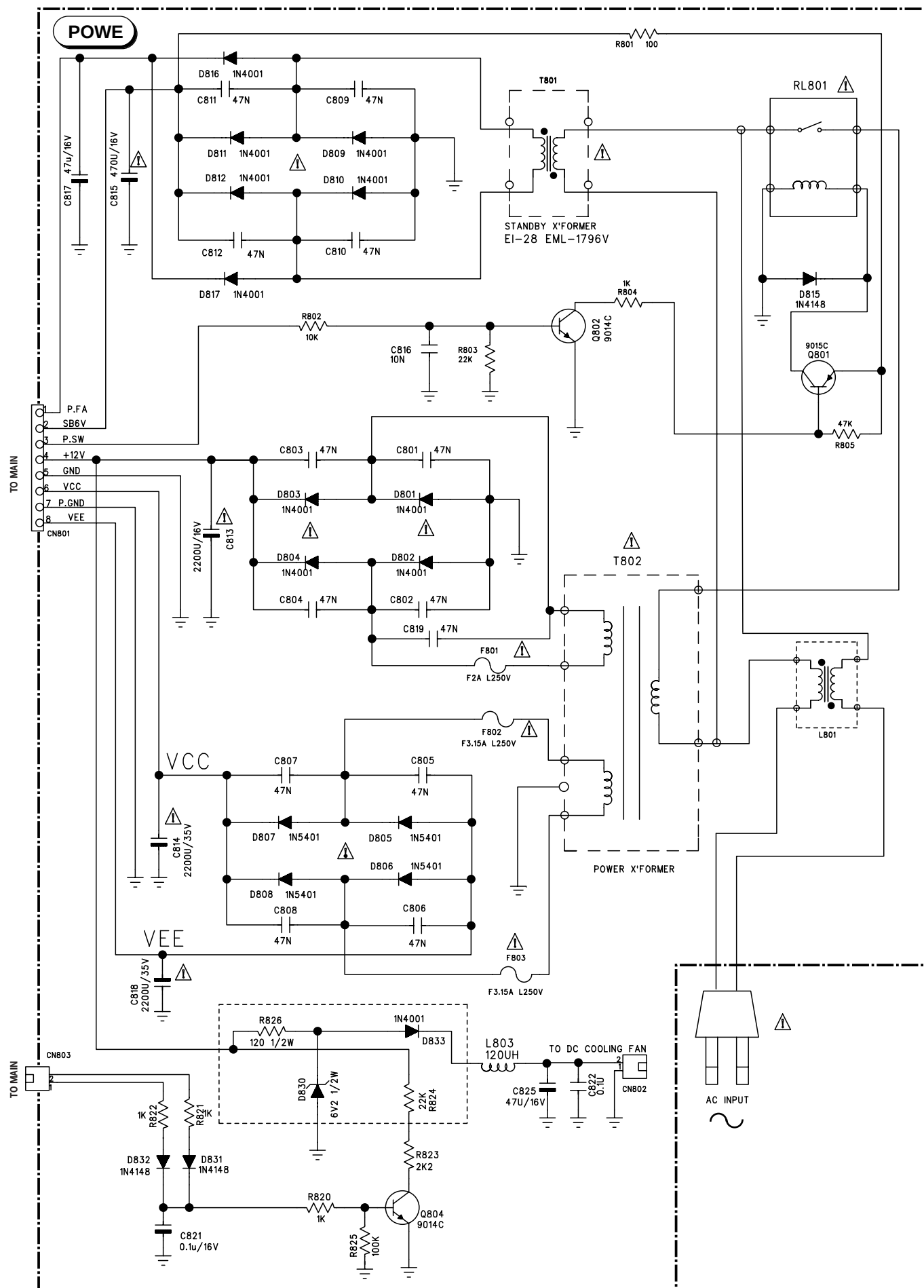
108 578 80

359 480 80 (SVB)

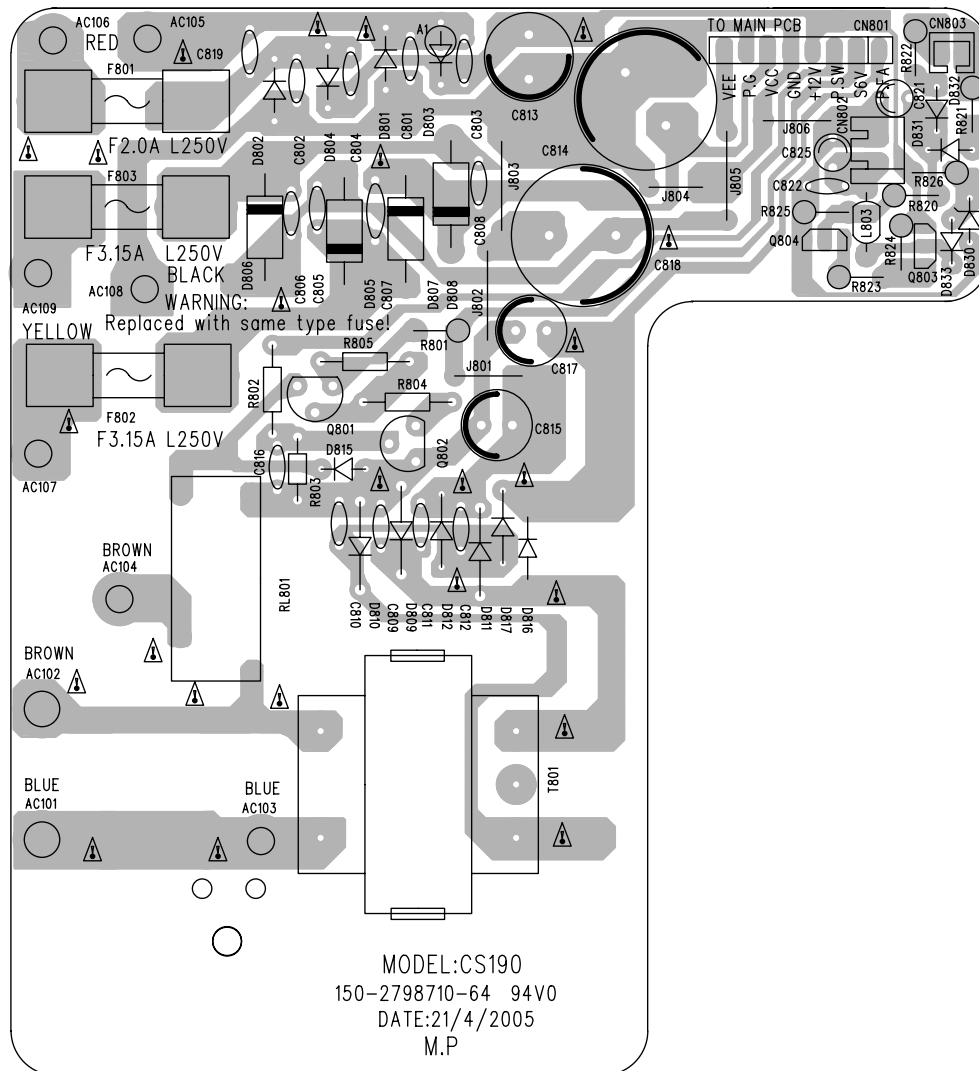




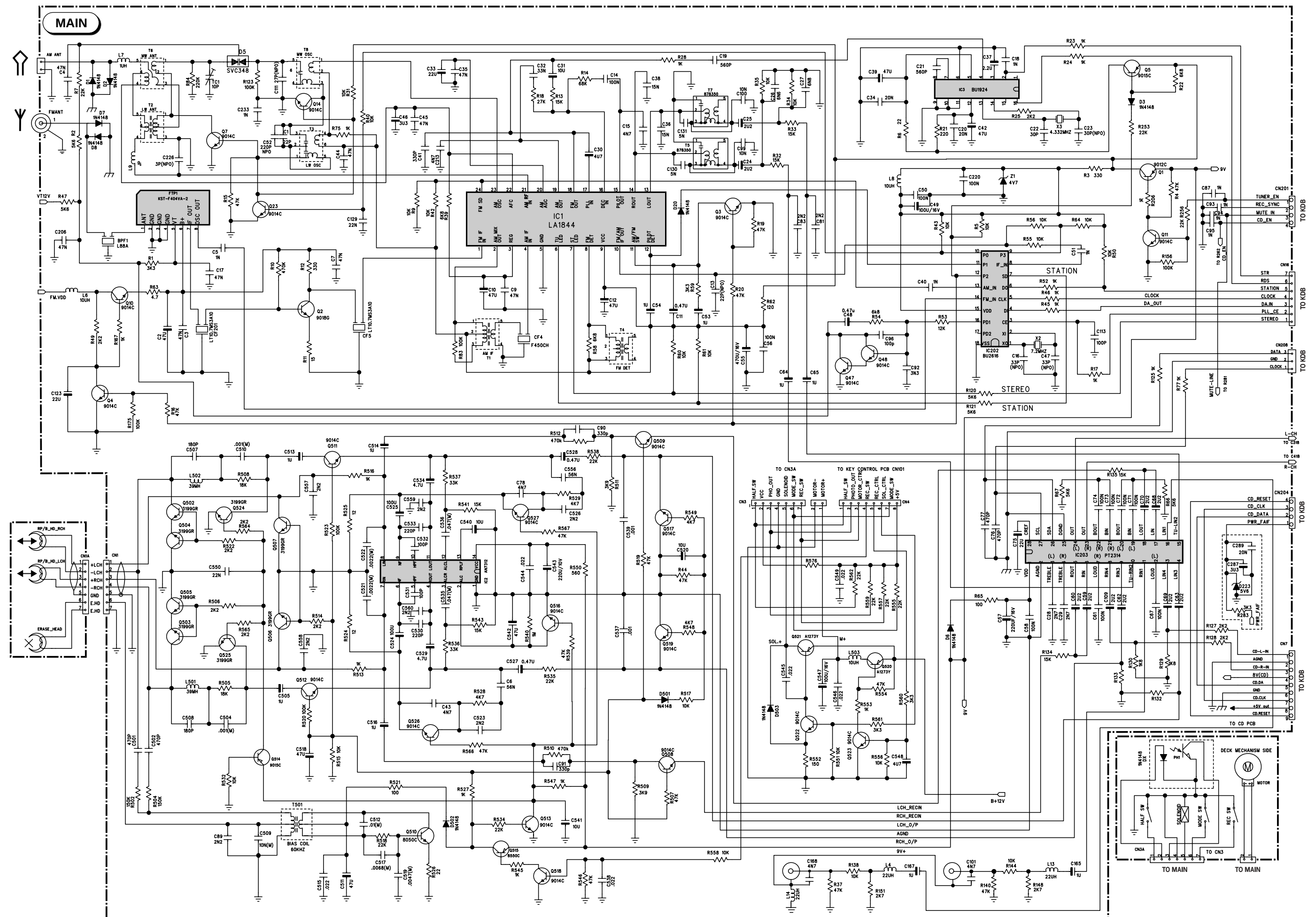
POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL SCHEMA DELL'ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



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

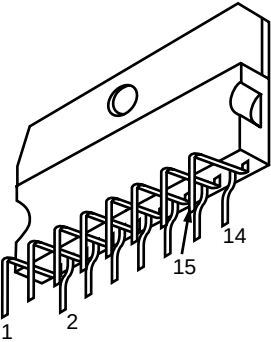
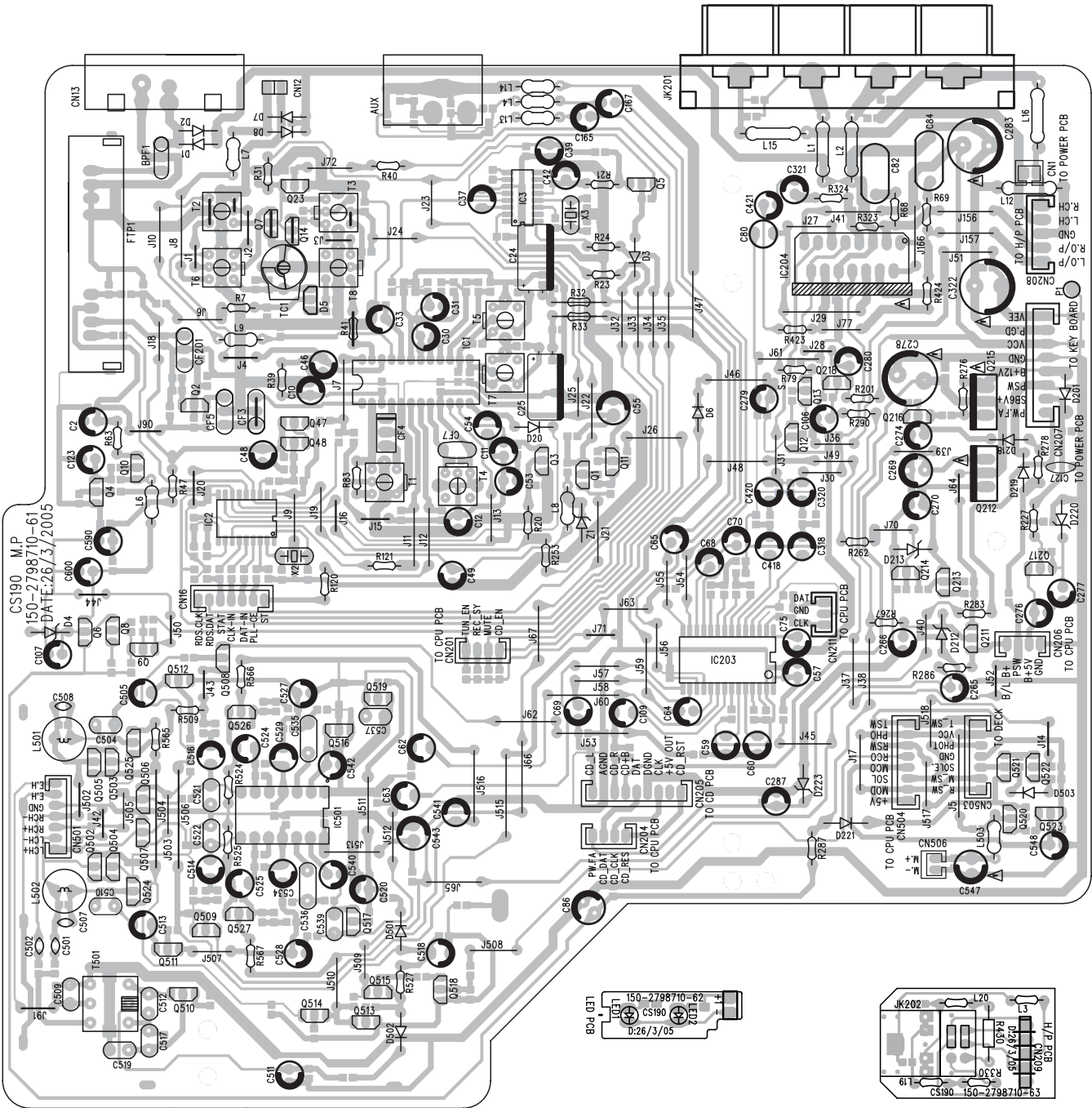




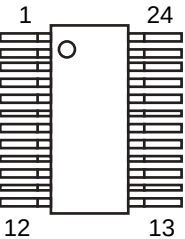


Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

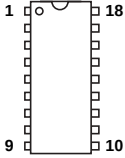
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



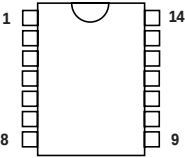
LM1876



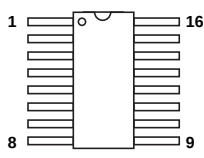
LA1844



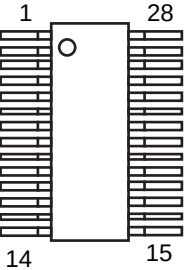
BU2616



AN7312

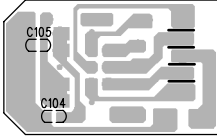
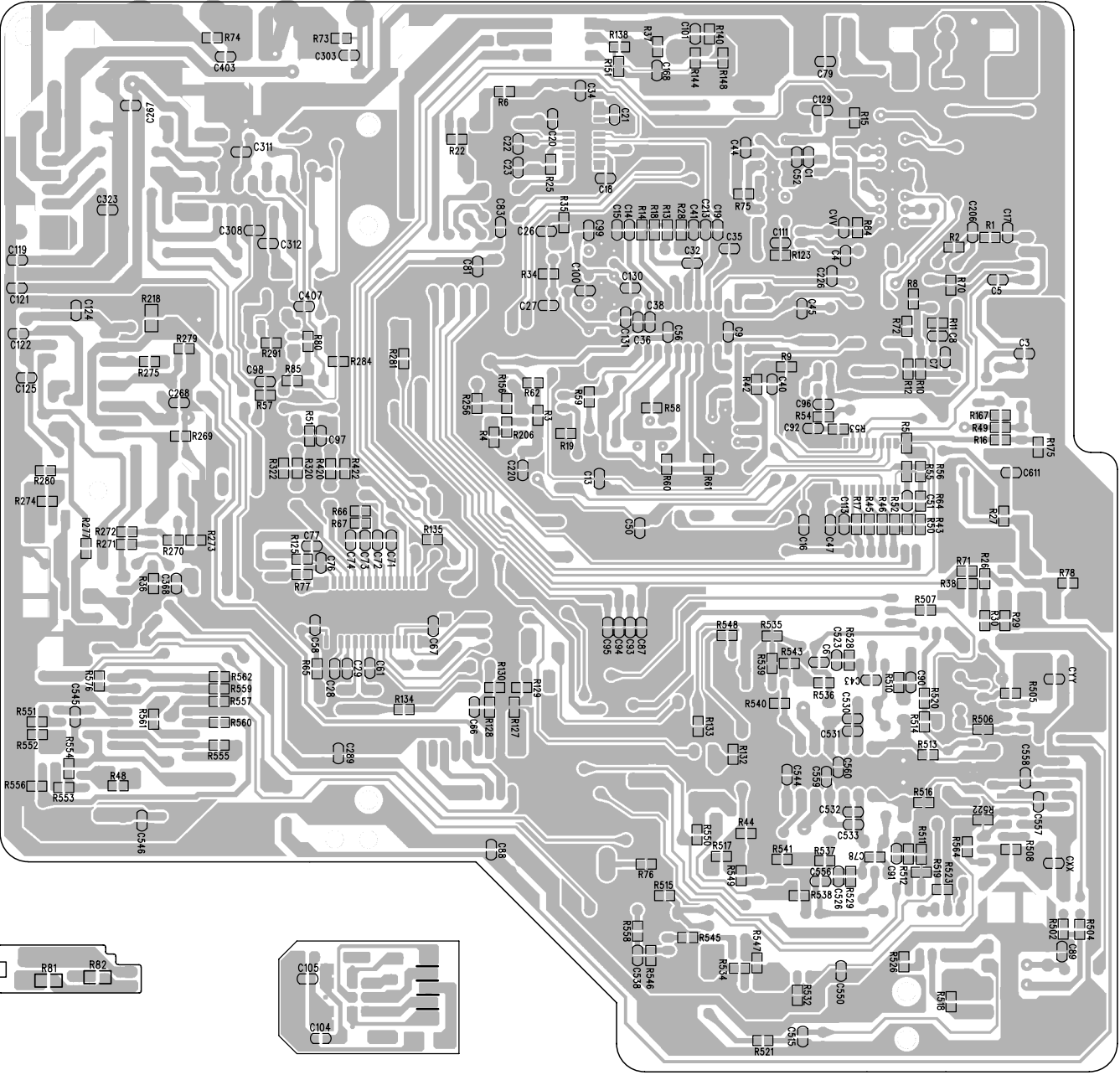


BU1924

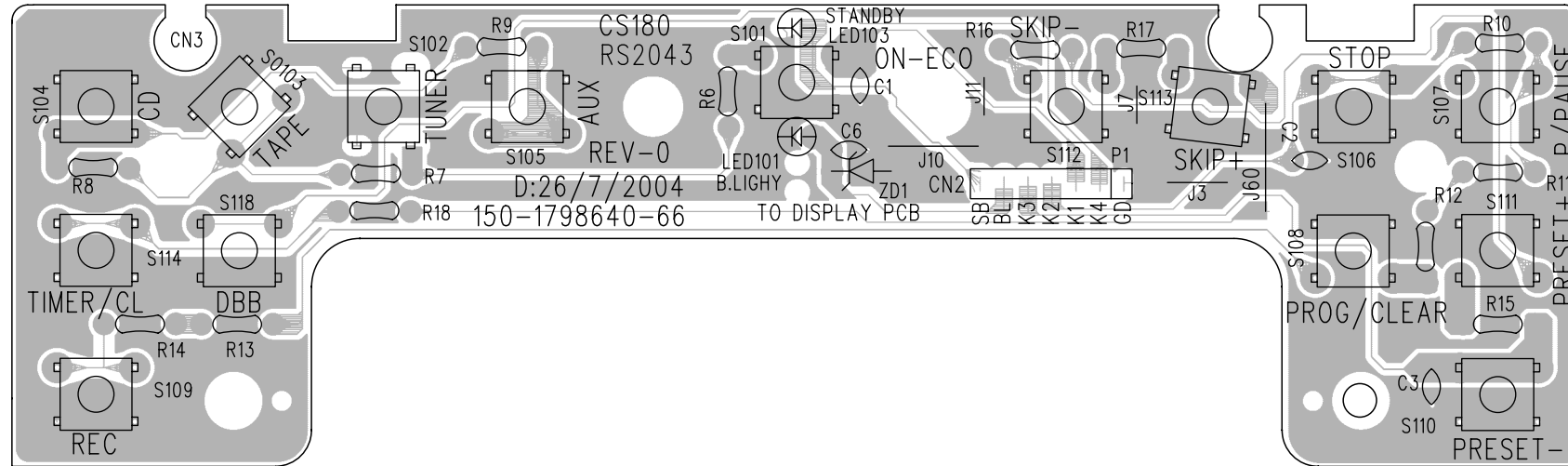


PT2314

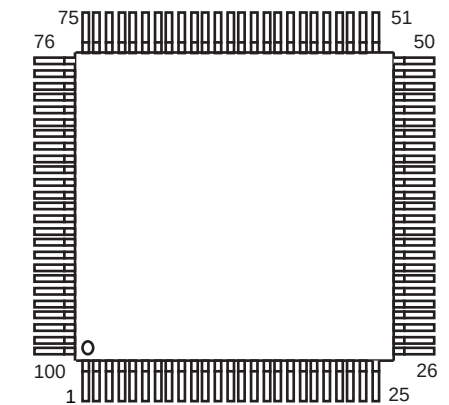
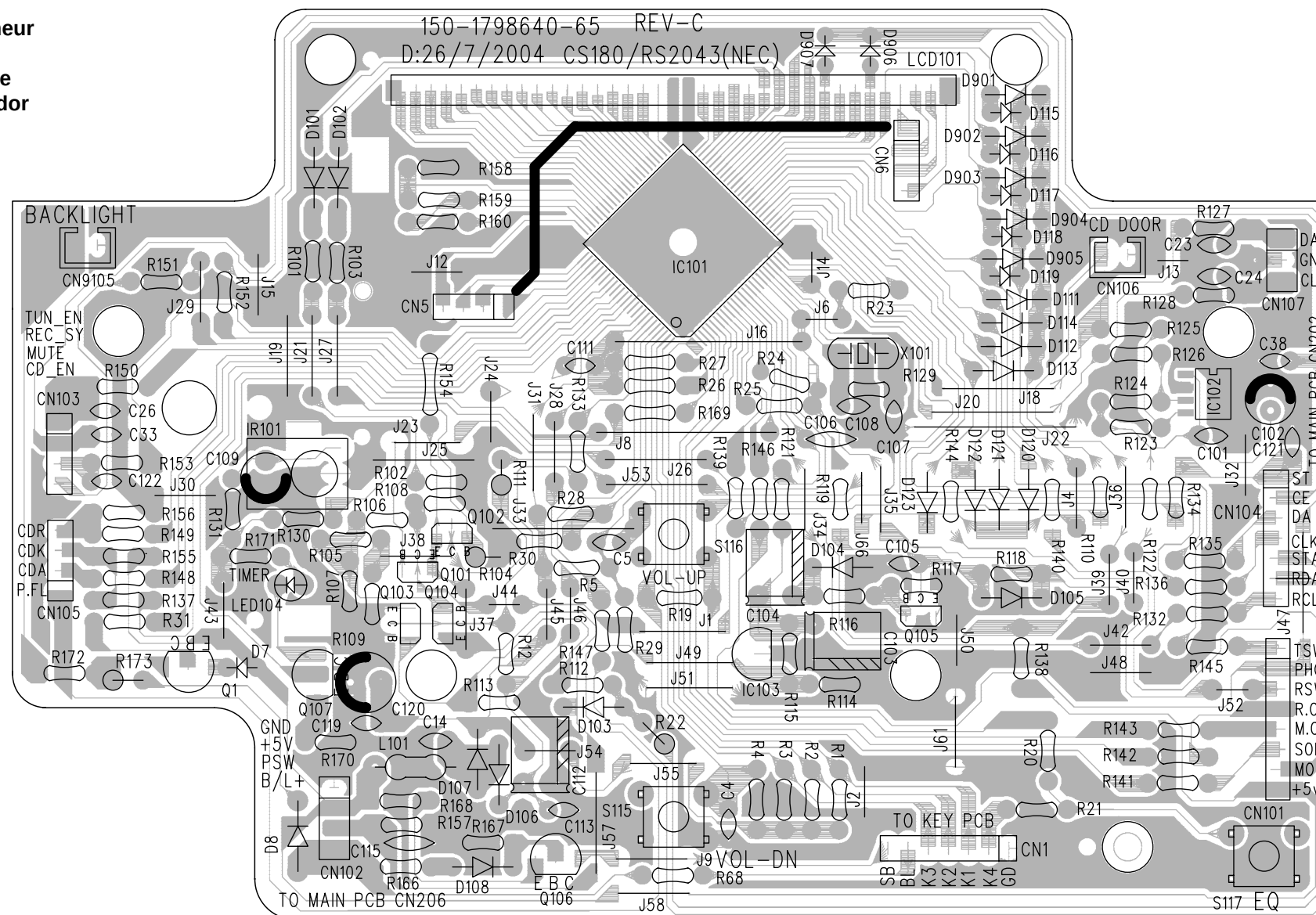
Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre



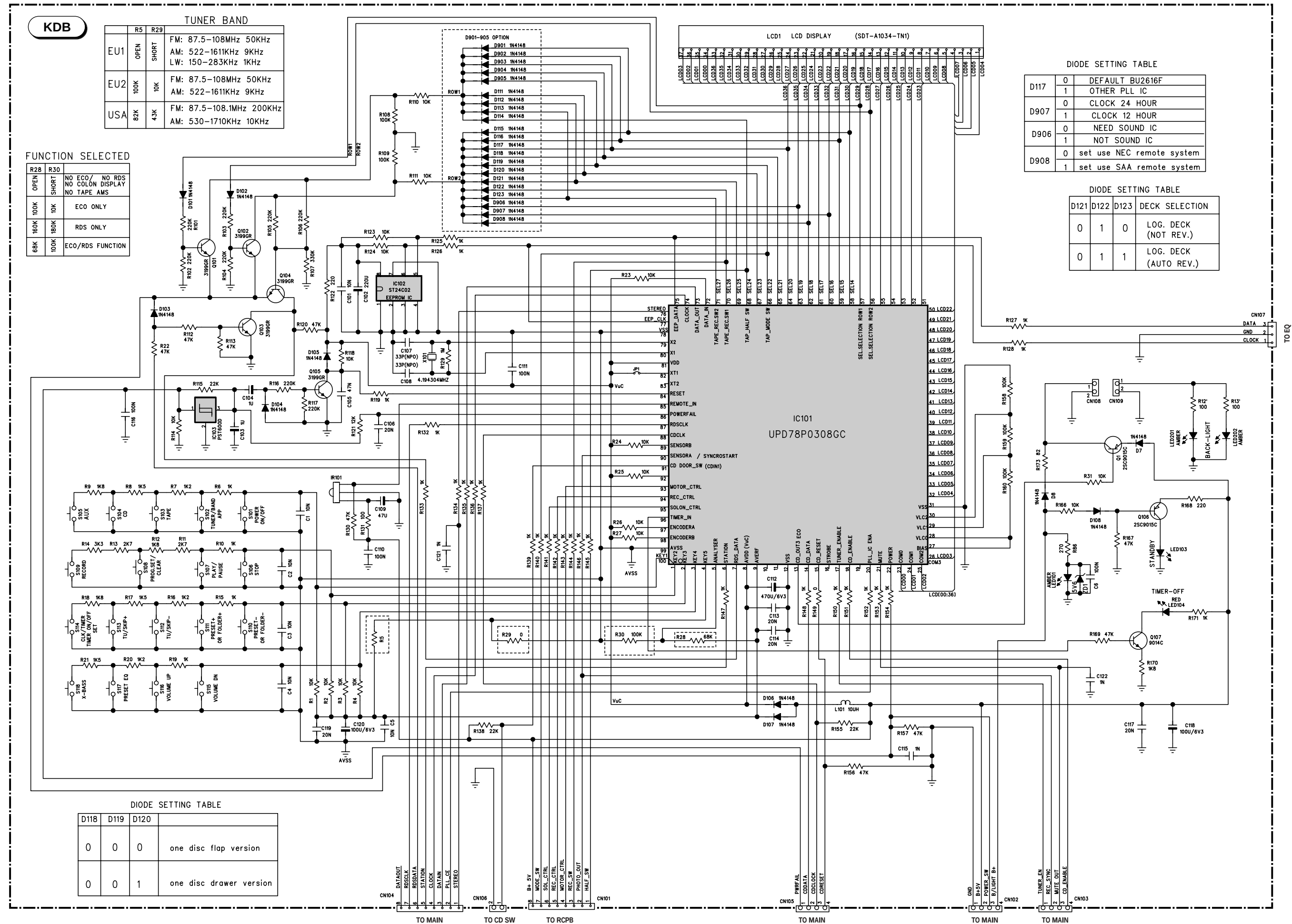
Key P.C.B.
Platine touches
Ltpl. Tasten
Piastra tastiera
Platina teclas

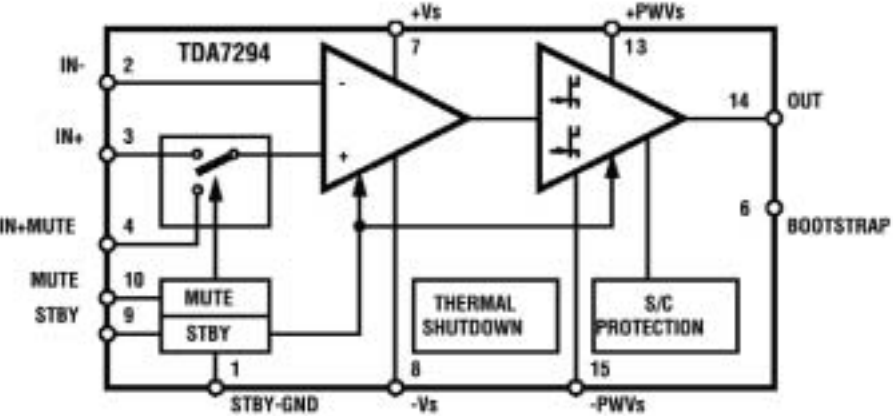
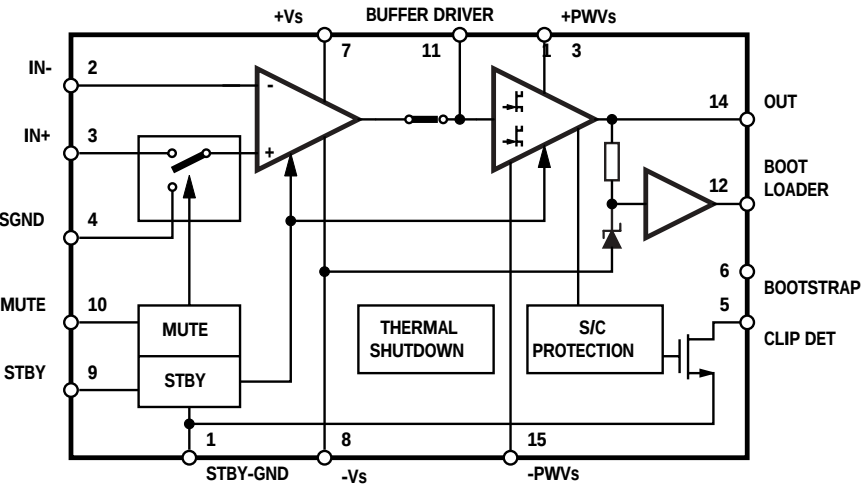
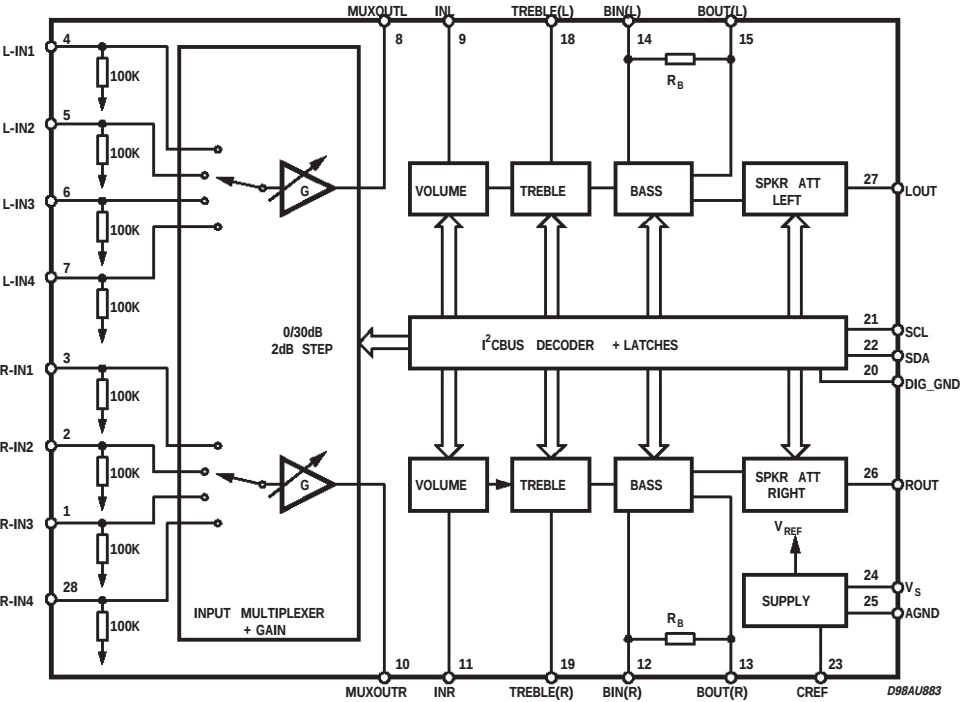


Control / display P.C.B.
Platine commandes / afficheur
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicador



UPD78P0308





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		

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