

SERVICE MANUAL DOCUMENTATION TECHNIQUE TECHNISCHE DOKUMENTATION DOCUMENTAZIONE TECNICA DOCUMENTACION TECNICA

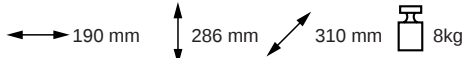
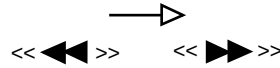
CS190

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: 230 V ~ 50Hz Stromversorgung: Alimentazione: Alimentación:		Nominal output power: Puissance nominale de sortie: 2 x 100W (rms) Nennausgangsleistung: 2 x 300W (music) Potenza nominale di uscita: 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: 38 dB Geräuschspannungabstand: Rapporto segnale / disturbo: Relación señal / ruido:	
	Wow and flutter: Fluctuations: 0,3% Gleichlauf: Fluttuazioni: Fluctuaciones:		4,75 cm/s C60: 170s
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 : 40 dB Übersprechdämpfung : Diafonia : Diafonia :	Signal to noise ratio: Rapport signal / bruit: 60 dB Geräuschspannungabstand: Rapporto segnale / disturbo: Relación señal / ruido:	

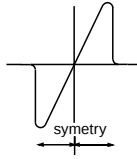


WARNING : Before servicing this chassis read the safety recommendations.
ATTENTION : Avant toute intervention sur ce châssis, lire les recommandations de sécurité.
ACHTUNG : Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.
ATTENZIONE : Prima di intervenire sullo chassis, leggere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

0805 - CRKD2158

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	

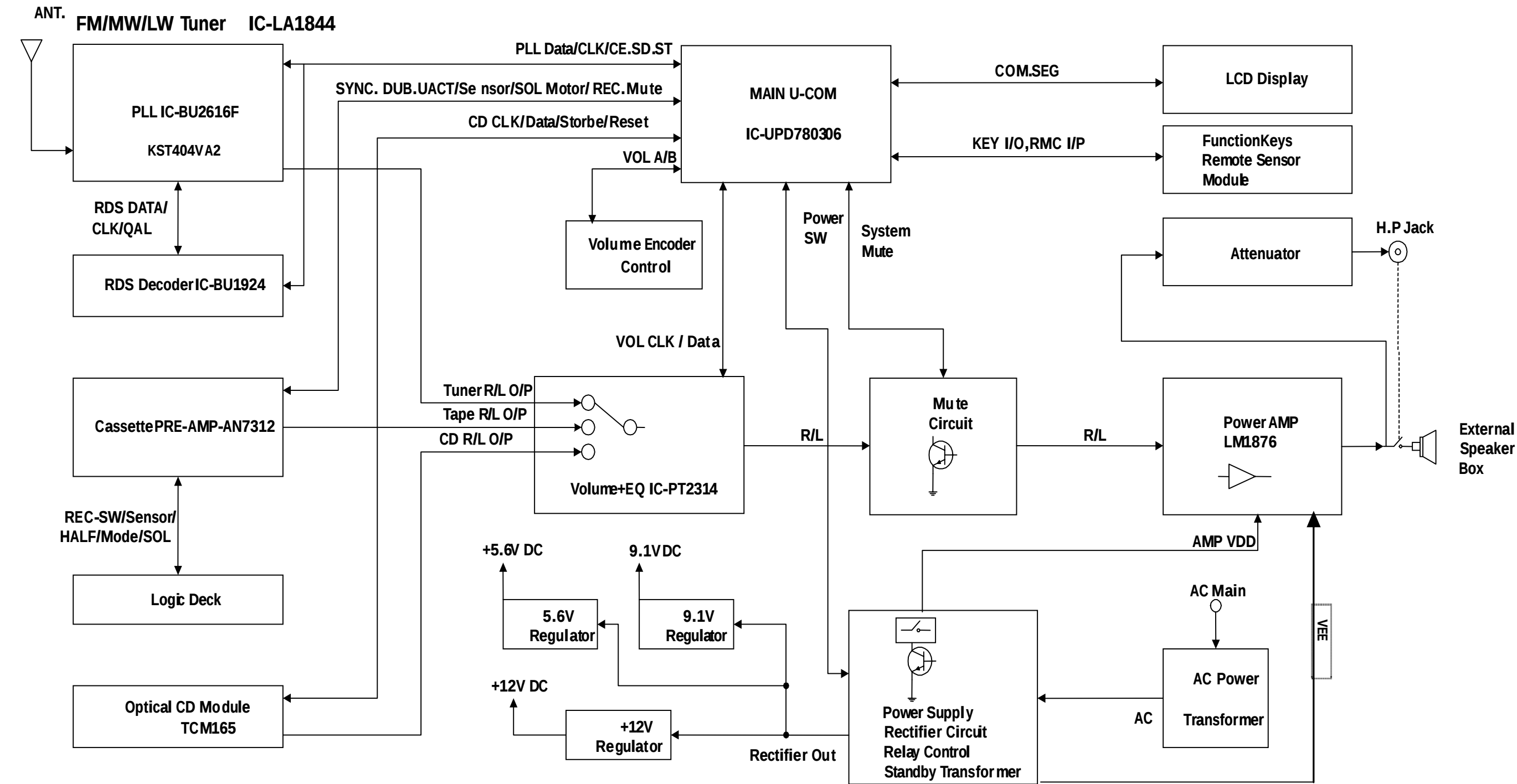
FM alignment						
		 	f		 	  
IF	1	 $V_e = 1 \text{ mV}$	10.7 MHz			Max. 
Osc	2	 $V_e = 1 \text{ mV}$	87.5 MHz		L202	$V_t = 2.0 \pm 0.1 \text{ V}$
	3		108 MHz			$V_t = 7.0 \pm 0.5 \text{ V}$
RF	4	 $V_e = 1 \text{ mV}$	90.1 MHz	90.1 MHz	L201	Max.
	5		106.1 MHz	106.1 MHz	TC201	

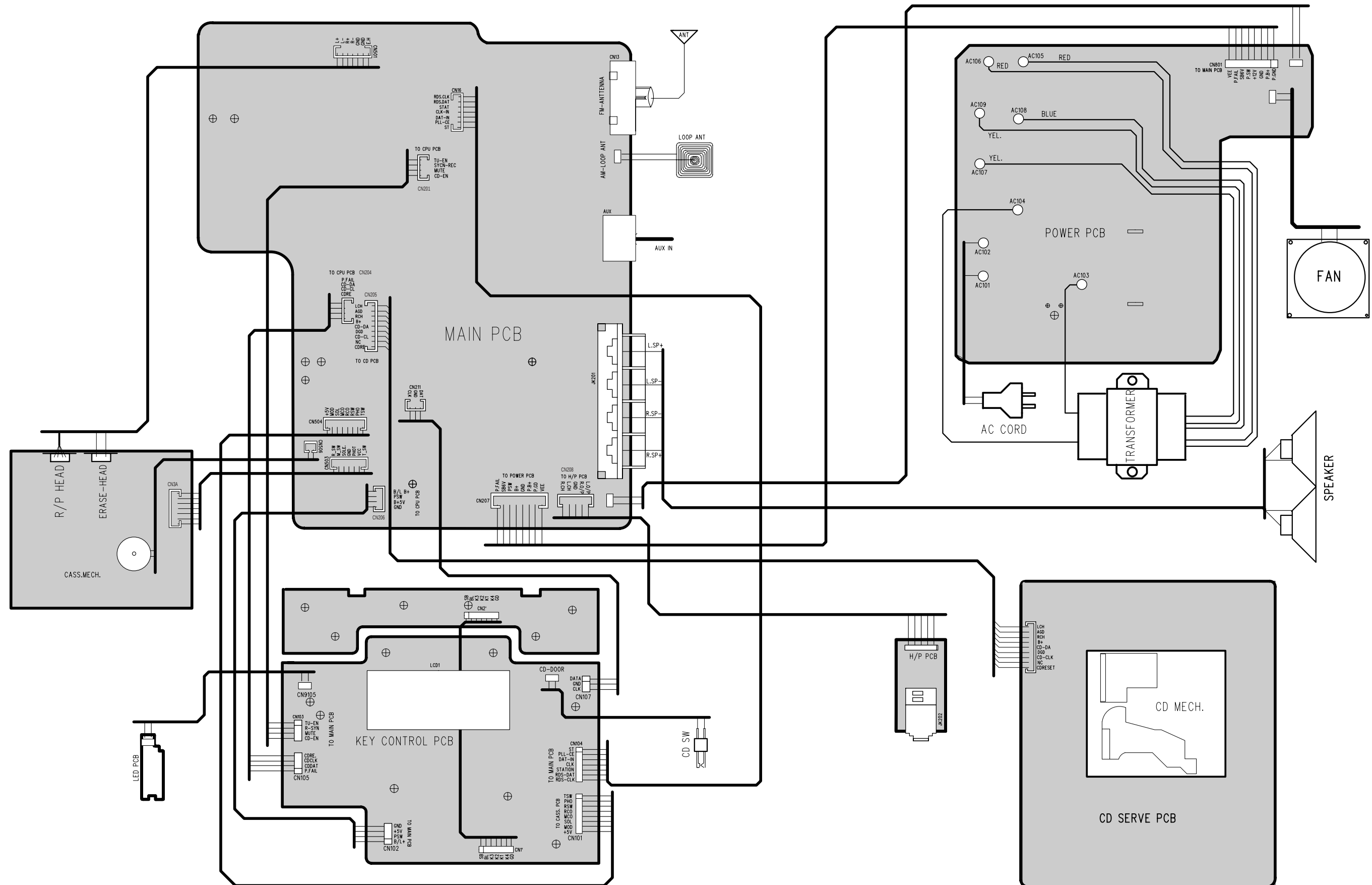
DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

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 :

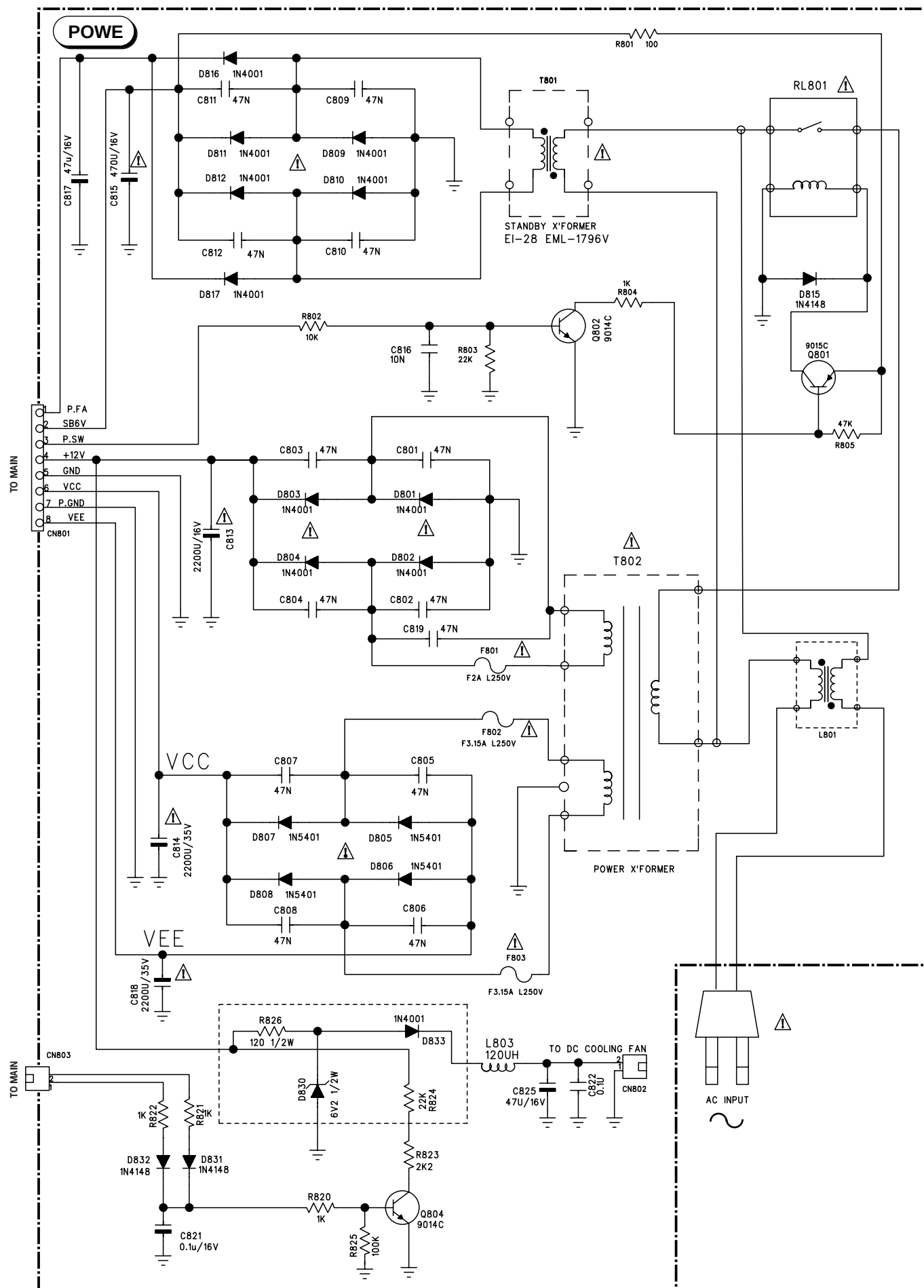
108 578 80

359 480 80 (SVB)

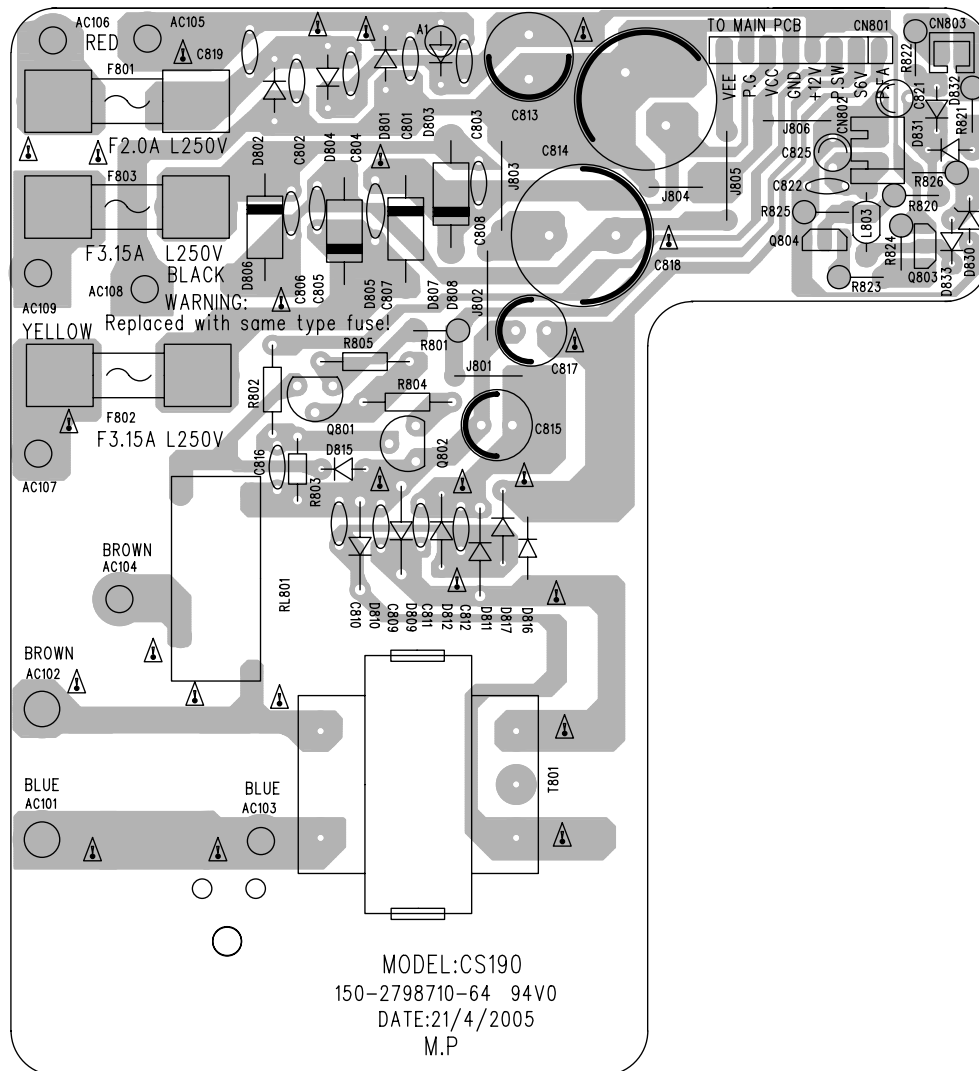




POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL SCHEMA DELL'ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



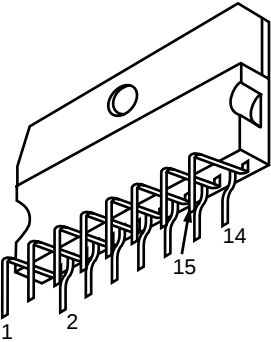
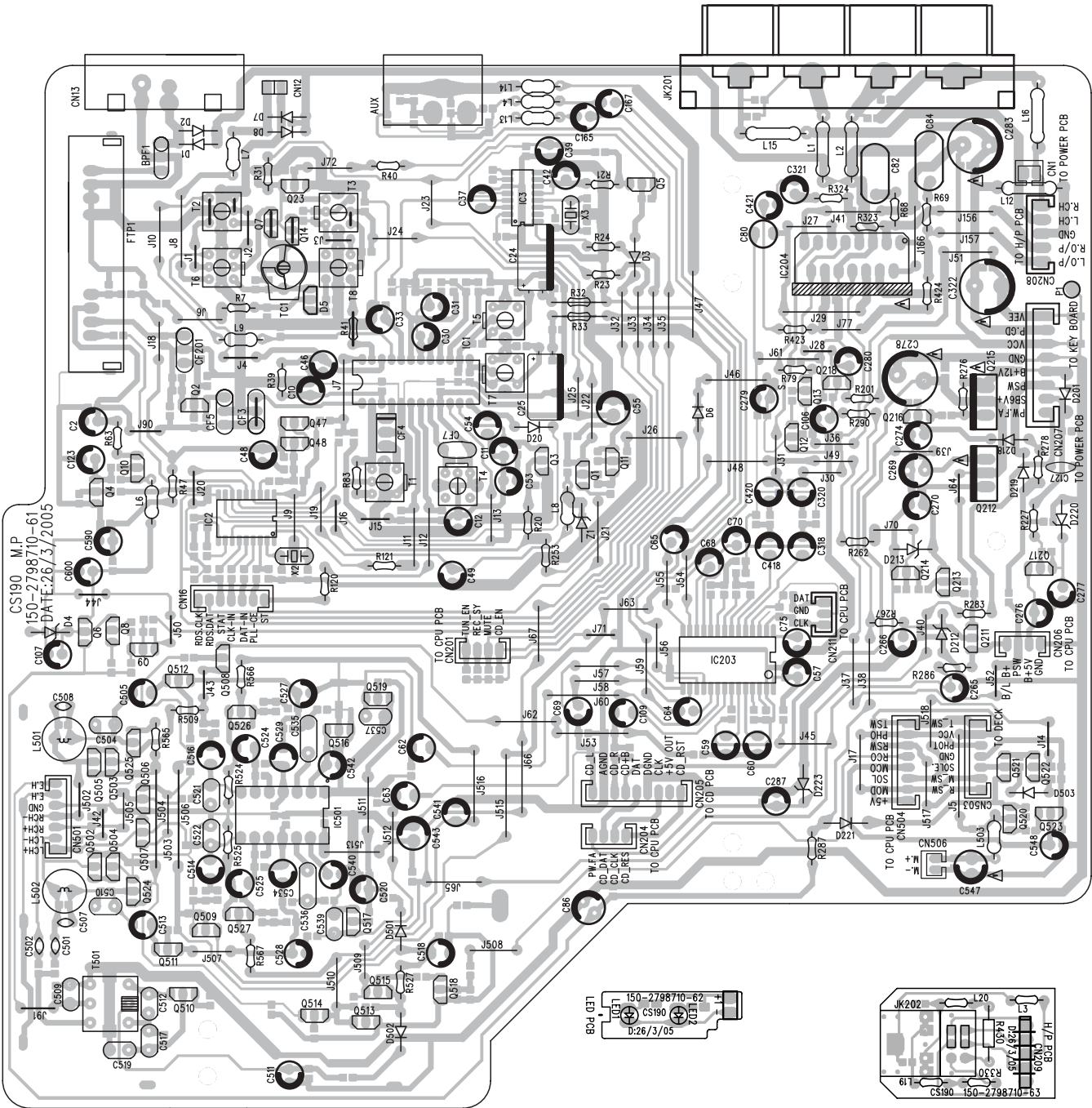
Power unit P.C.B.
 Platine secteur
 Ltpl. Netzanschluss
 Piastra di rete
 Platina de red



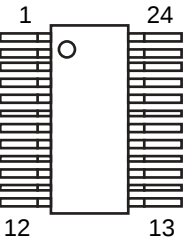


Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

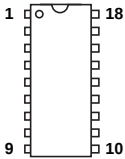
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



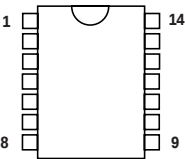
LM1876



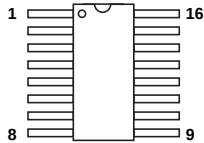
LA1844



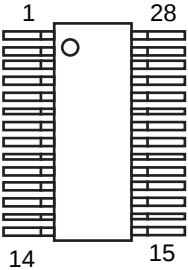
BU2616



AN7312

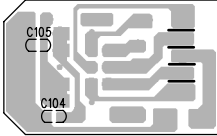
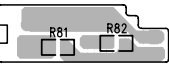
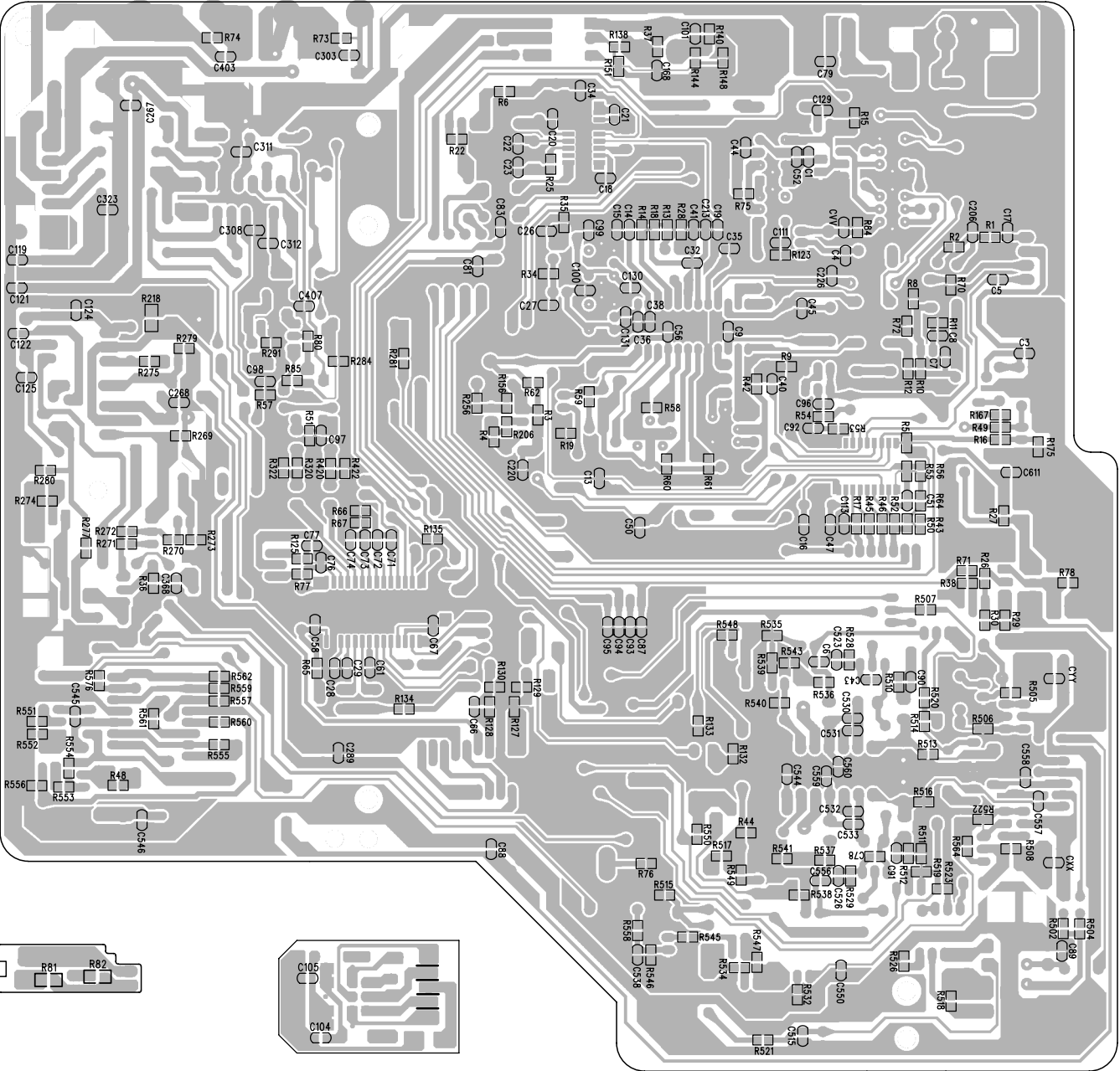


BU1924

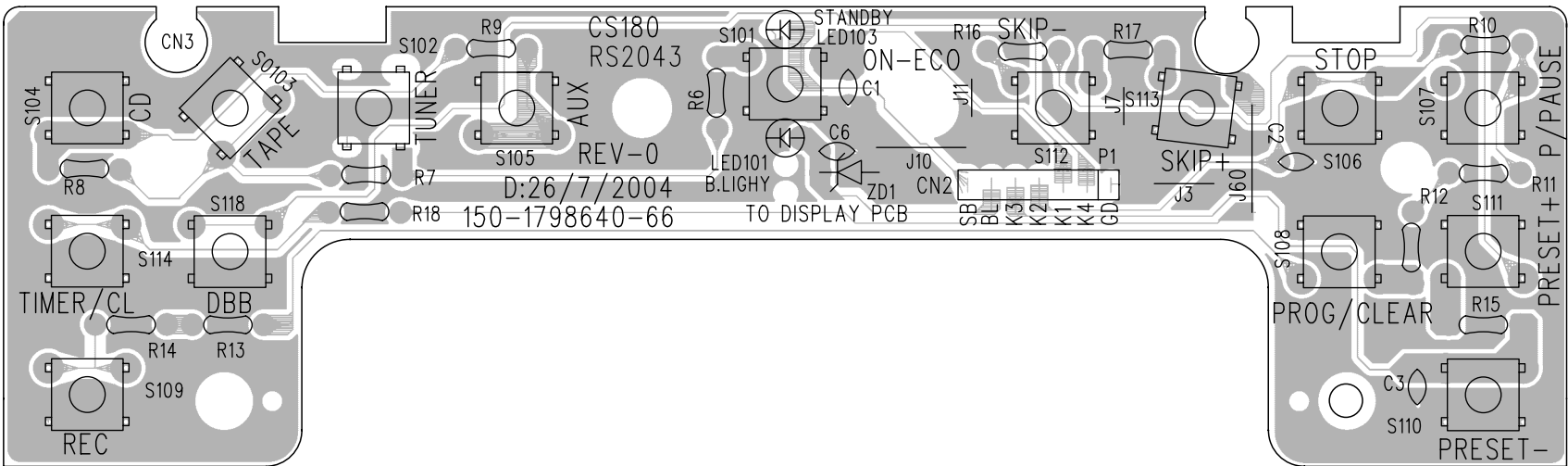


PT2314

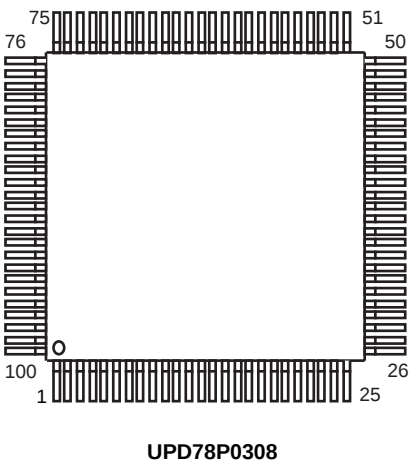
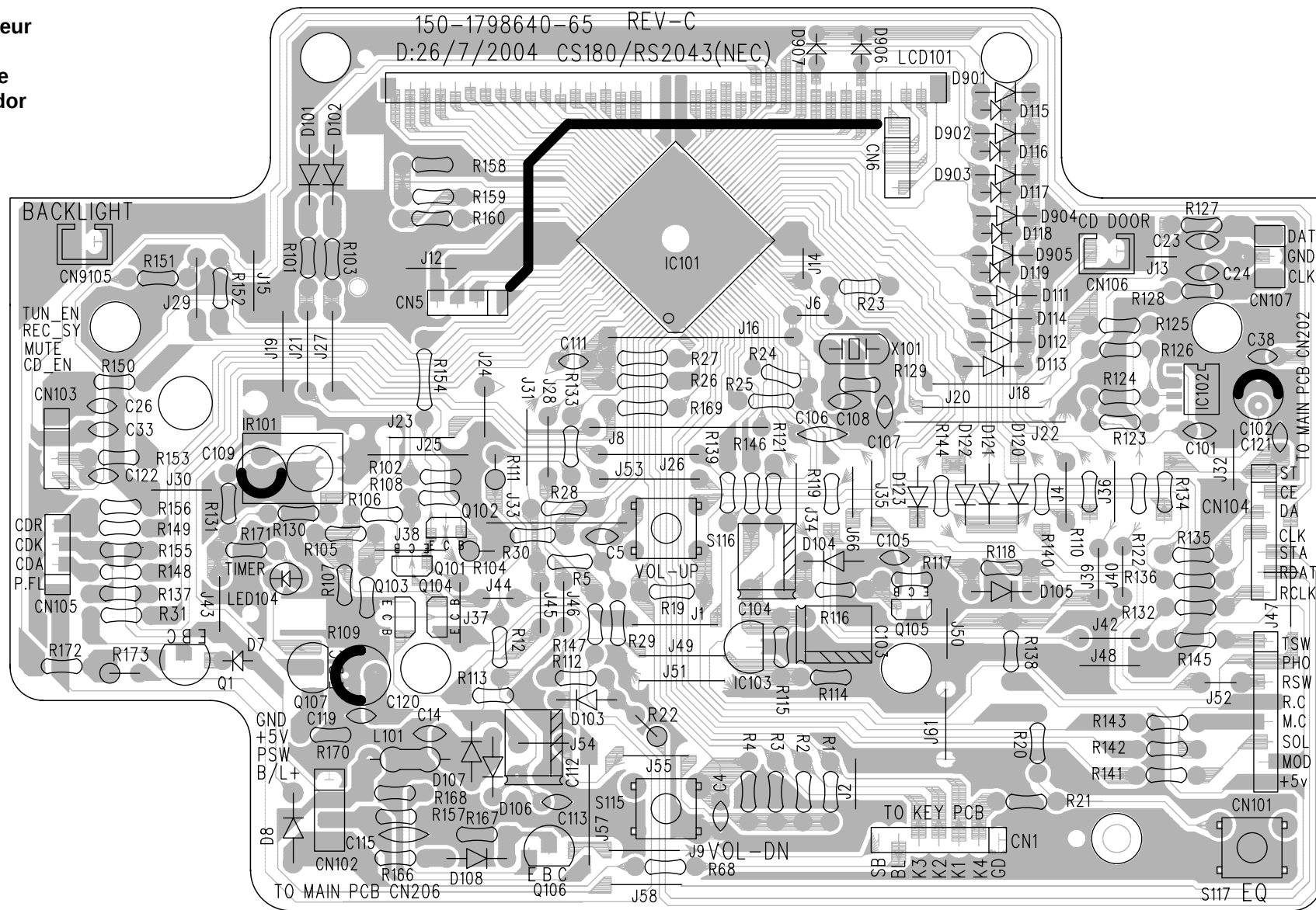
Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre

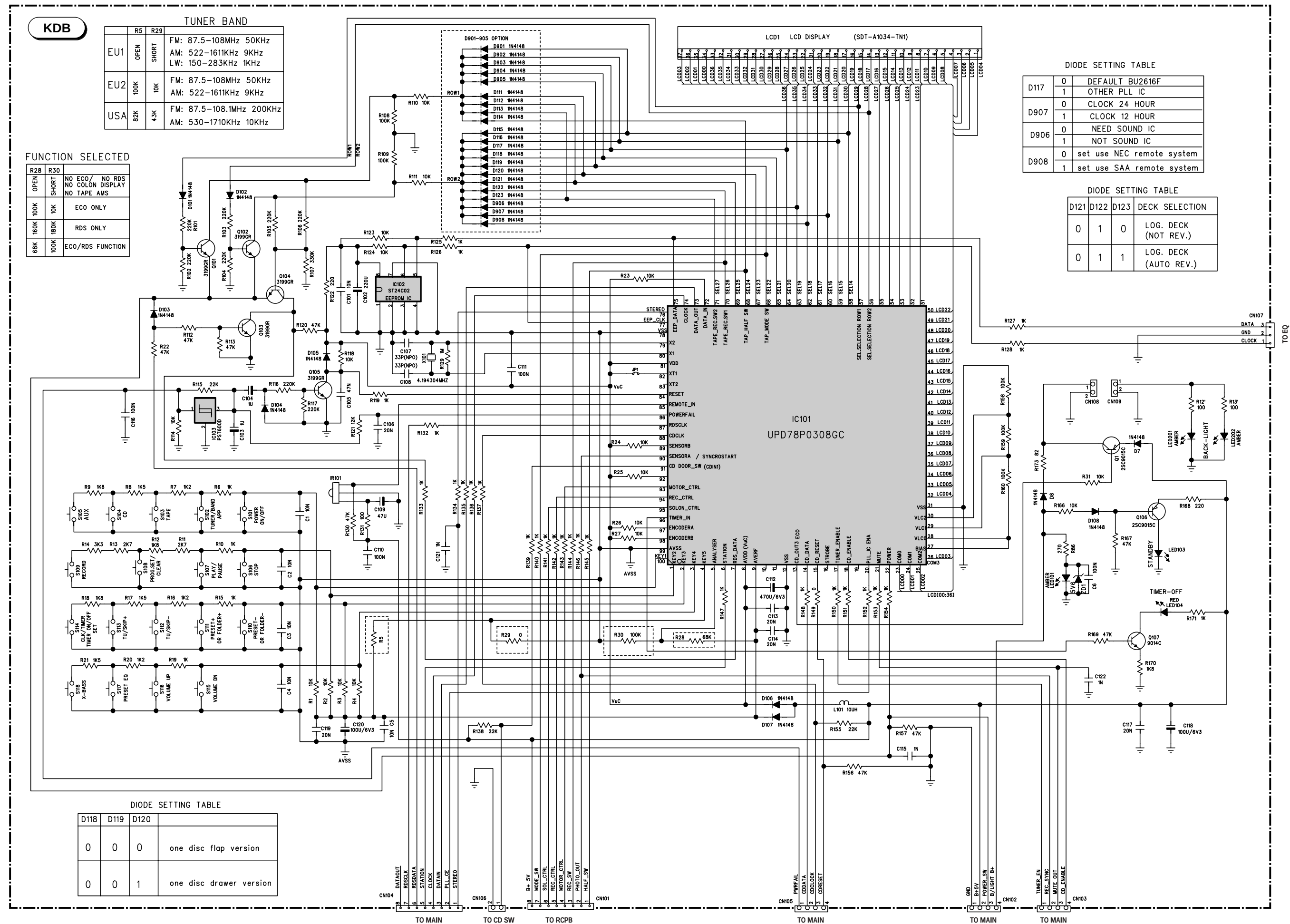


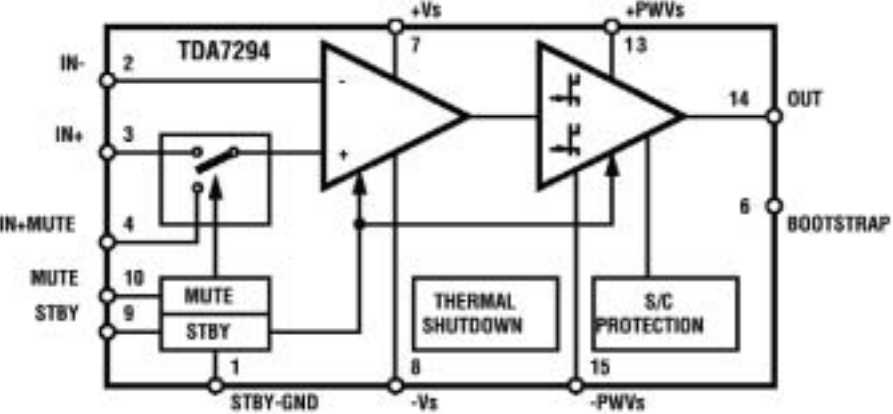
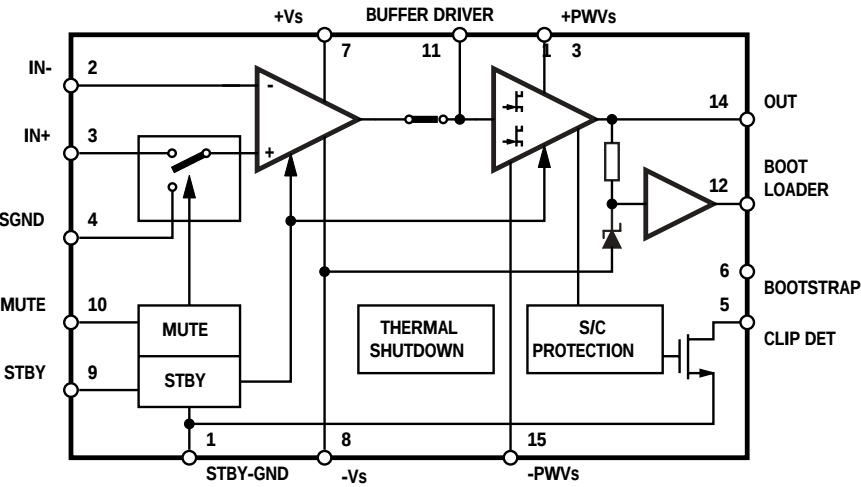
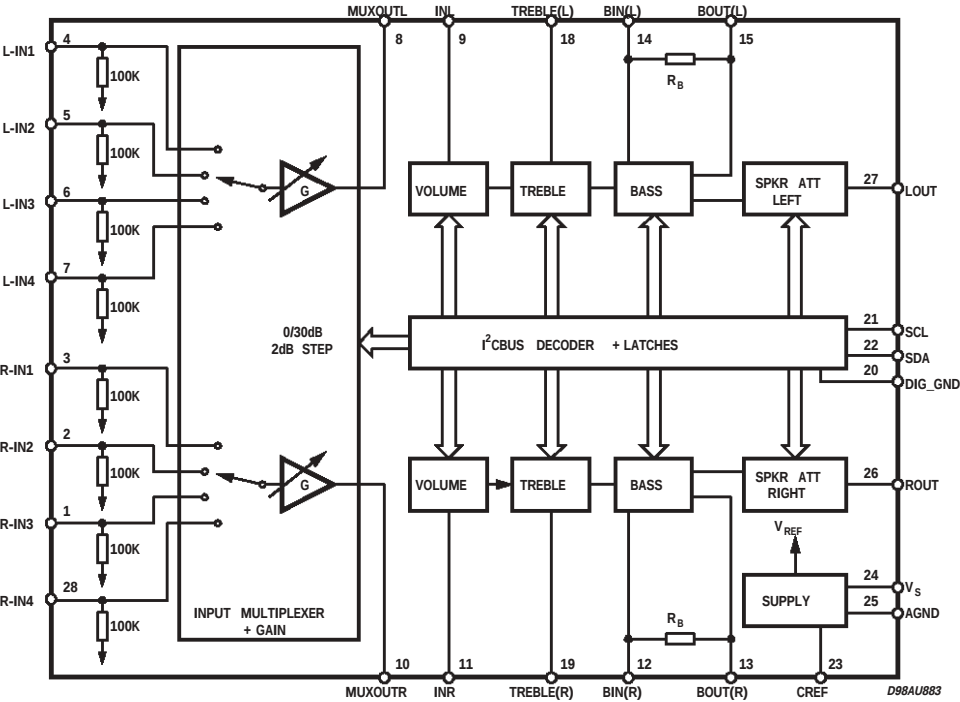
Key P.C.B.
Platine touches
Ltpl. Tasten
Piastra tastiera
Platina teclas



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







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
Diese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt
Documentazione tecnica destinata esclusivamente ai tecnici dell'assistenza
Documentación técnica destinada exclusivamente a los profesionales de mantenimiento

Thomson Sales UK Limited
Bath Road
West Drayton
Middlesex UB7 0DB (England)

**Thomson multimedia
Scandinavia AB**
Florettgatan 29 C
S-25467 Helsingborg (Sweden)
Tel. : 042 25 75 00

**Thomson multimedia
Sales Germany GmbH & Co oHG**
Karl-Wiechert-Allee 74
30625 Hannover

**Thomson
Consumer Electronics Poland**
ul. Gen. L. Okulickiego 7/9
05-500 Piaseczno (Varsovie)
Tel. : (22) 757 10 80

**Thomson multimedia
Sales France**
46, quai Alphonse Le Gallo
92648 Boulogne cedex
Tel. : 01 41 86 60 00
Internet : www.thomson-network.com

**Thomson multimedia
Czech s.r.o.**
ul. Dopravaku - dum Genius 1
Dolní Chabry
CZ - 18400 Prague 8
Tel. : (2) 688 67 70

**Thomson multimedia
Switzerland**
Seewenweg 5
CH-4153 Reinach
Tel. : (61) 716 96 60

**Thomson multimedia
Hungary KFT**
Lajos u. 78. II.em.
H-1036 Budapest
Tel. : 00 36 14 5334/80

**Thomson multimedia
Sales Portugal**
Avenida da Boavista, 3521
4106 Porto
Tel. : (2) 26 18 76 41

**Thomson multimedia
Sales Spain**
Avenida Isla Graciosa, 1
Edificio Ancora
Parque Empresarial La Marina
28700 San Sebastián de los Reyes (Madrid)
Tel. : (91) 384 14 19

**Thomson multimedia
Sales Italy S.p.A.**
Via Leonardo da Vinci, 43
20090 Trezzano sul naviglio (Milano)
Tel. : (02) 48 414 111