



THOMSON

AUDIO

SERVICE MANUAL DOCUMENTATION TECHNIQUE TECHNISCHE DOKUMENTATION DOCUMENTAZIONE TECNICA DOCUMENTACION TECNICA

CS140 CS140U

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.



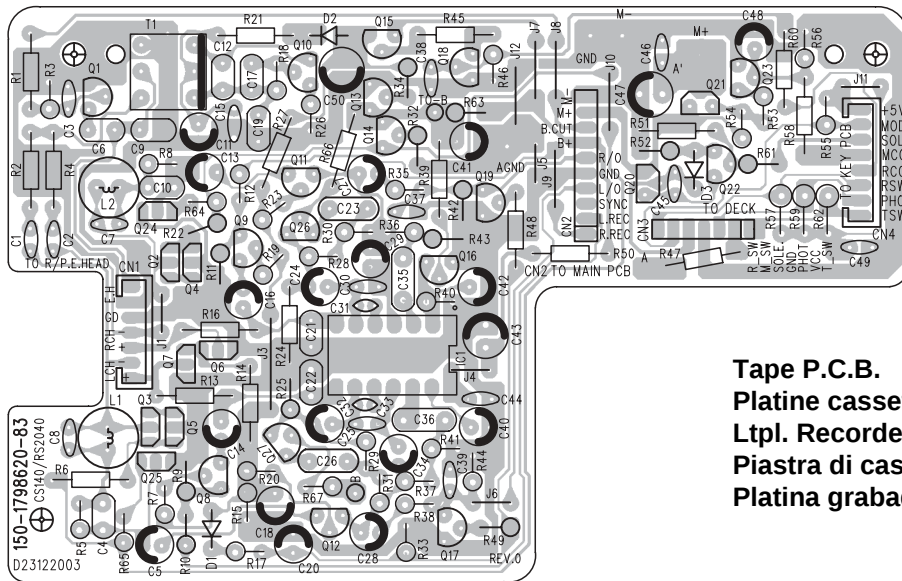
Technical data - Caractéristiques principales Technische Daten - Dati tecnici - Características del aparato

Type of set: Type d'appareil: Geräteart: Tipo d'apparecchio: Tipo de aparato:	Two-in-one horizontale combination/DAD Ensemble compact stéréophonique DAD-2er Horizontal Kompaktanlage Compatto HiFi/CD Equipo compacto estereofónico/DAD	
Power supply: Alimentation: Stromversorgung: Alimentazione: Alimentación:	230 V ~ 50Hz	Nominal output power: Puissance nominale de sortie: Nennausgangsleistung: Potenza nominale di uscita: Potencia nominal de salida:
		2 x 10W (rms) 2 x 20W (music)
 FM - MF: MW - PO: LW - GO:	87.5 - 108 MHz 522 - 1620 kHz 146 - 283 kHz	Sensitivity: Sensibilité: Empfindlichkeit: Sensibilità: Sensibilidad:
		FM - MF: 20µV (S/N = 30 dB) MW - PO: 2000µV/m (S/N = 20 dB) LW - GO: 2000µV/m (S/N = 20 dB)
 Frequency response: Courbe de réponse: Frequenzgang: Curva di risposta: Curva de respuesta:	125 Hz - 6.3 kHz (+3/-5 dB)	Signal to noise ratio: Rapport signal / bruit: Geräuschspannungabstand: Rapporto segnale / disturbo: Relación señal / ruido:
		40 dB
 Wow and flutter: Fluctuations: Gleichlauf: Fluttuazioni: Fluctuaciones:	0,35%	 4,75 cm/s C60: 170s
DAD Disc rotation speed: Vitesse de rotation du disque: CD-Drehgeschwindigkeit: Velocità di rotazione del disco: Velocidad de rotación del disco:	200 → 500 tr/mn	Frequency response: Courbe de réponse: Frequenzgang: Curva di risposta: Curva de respuesta:
		100 Hz - 16 kHz (-4/+2 dB)
Dynamic range: Gamme dynamique: Dynamikumfang: Dinamica: Dinámica:	60 dB	Signal to noise ratio: Rapport signal / bruit: Geräuschspannungabstand: Rapporto segnale / disturbo: Relación señal / ruido:
		54 dB

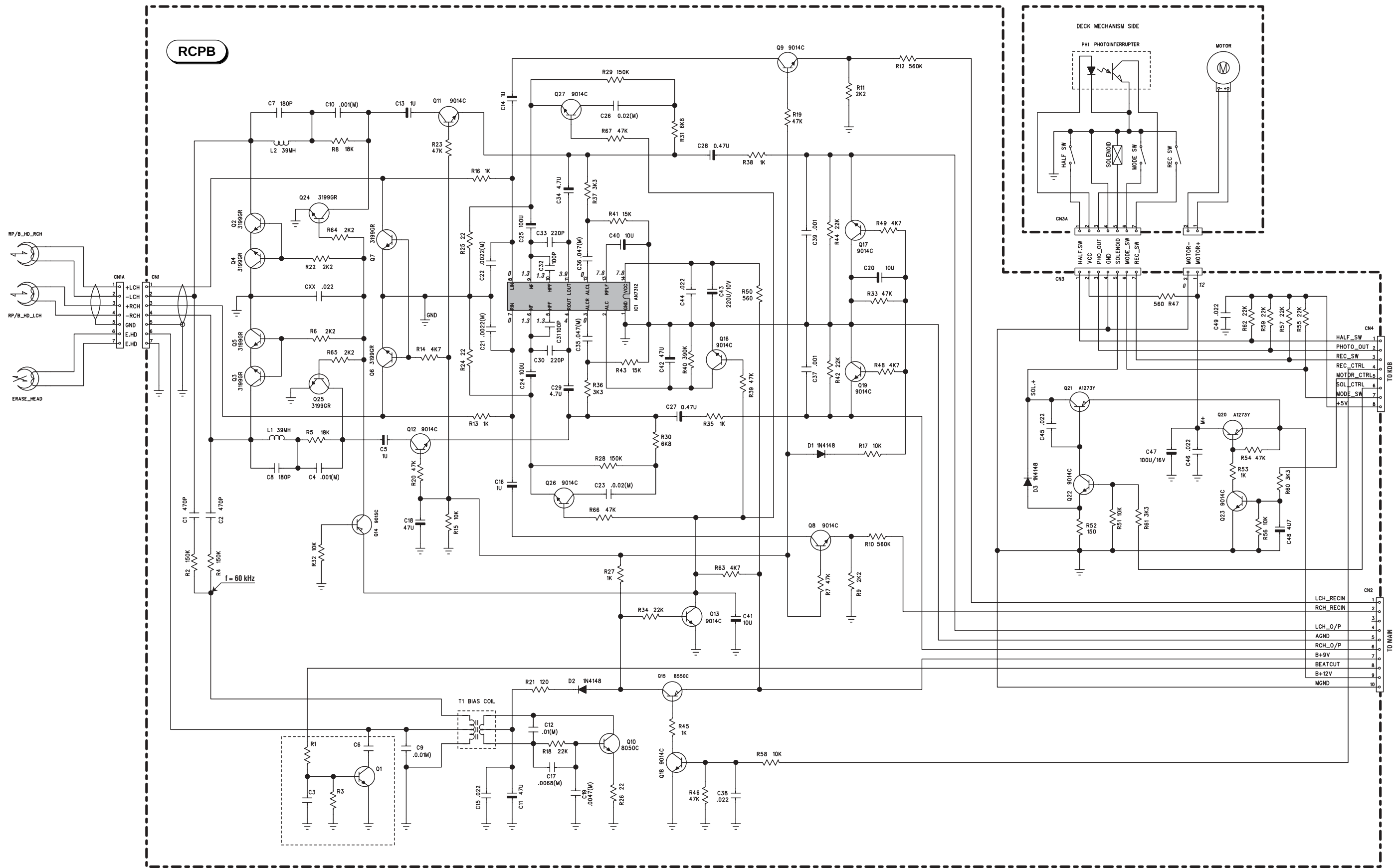


WARNING : Before servicing this chassis please read the safety recommendations.
ATTENTION : Avant toute intervention sur ce châssis, lire les recommandations de sécurité.
ACHTUNG : Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.
ATTENZIONE : Prima di intervenire sullo chassis,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

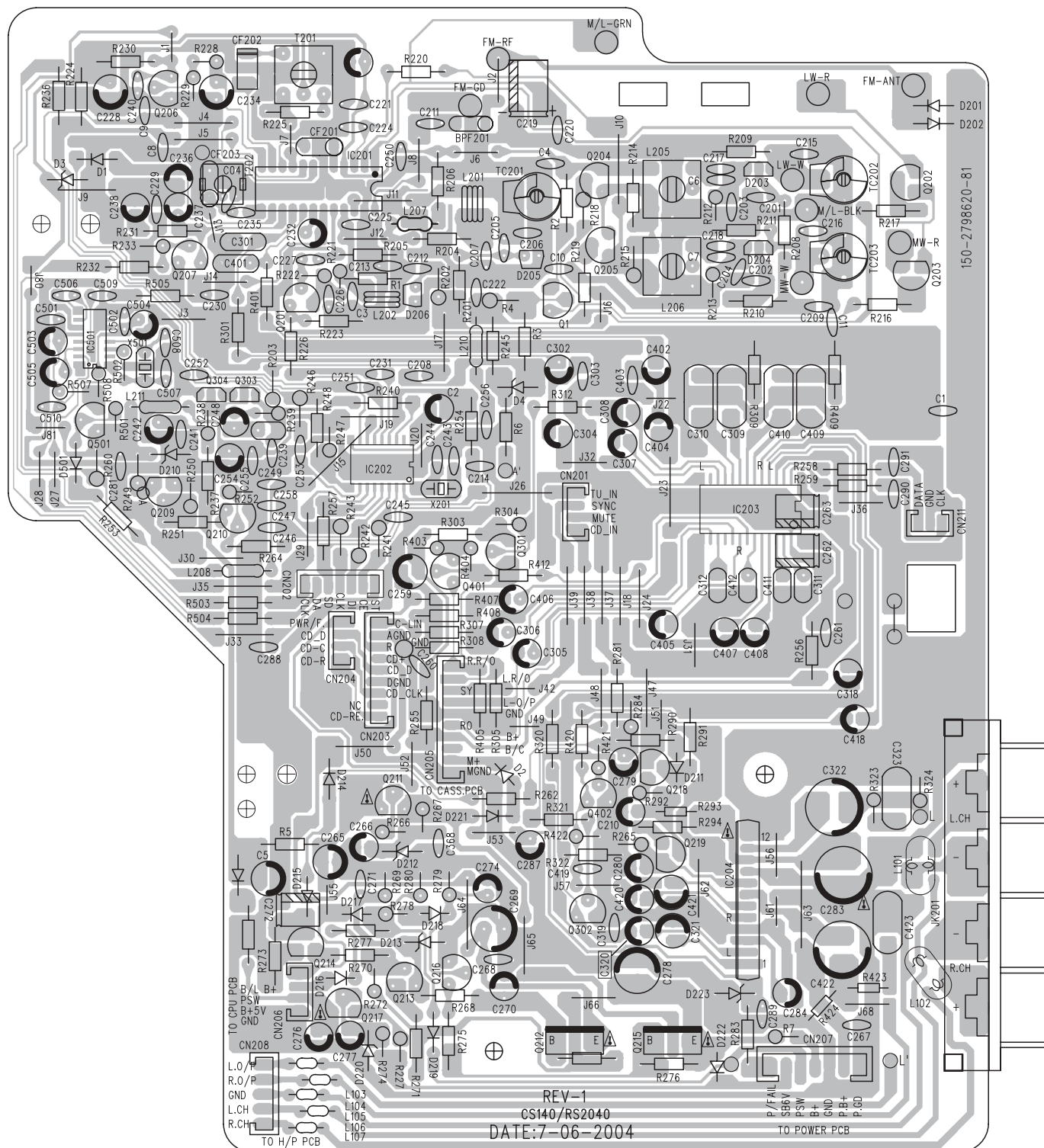
Code : 358 498 40 - 0305 / 3.7M - CRKD2142 Print.



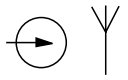
Tape P.C.B.
Platine cassettes
Ltpl. Recorder
Piastra di cassette
Platina grabadores

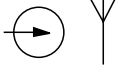
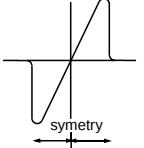


Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

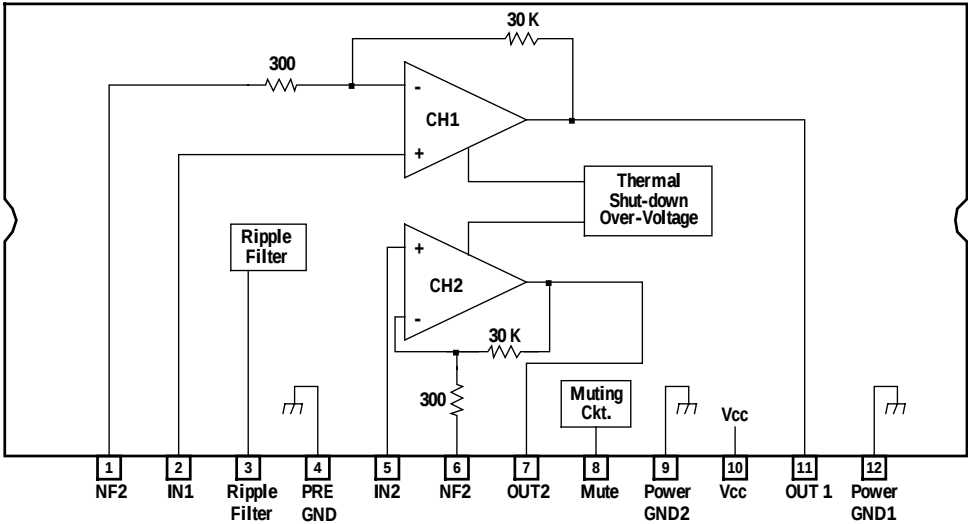


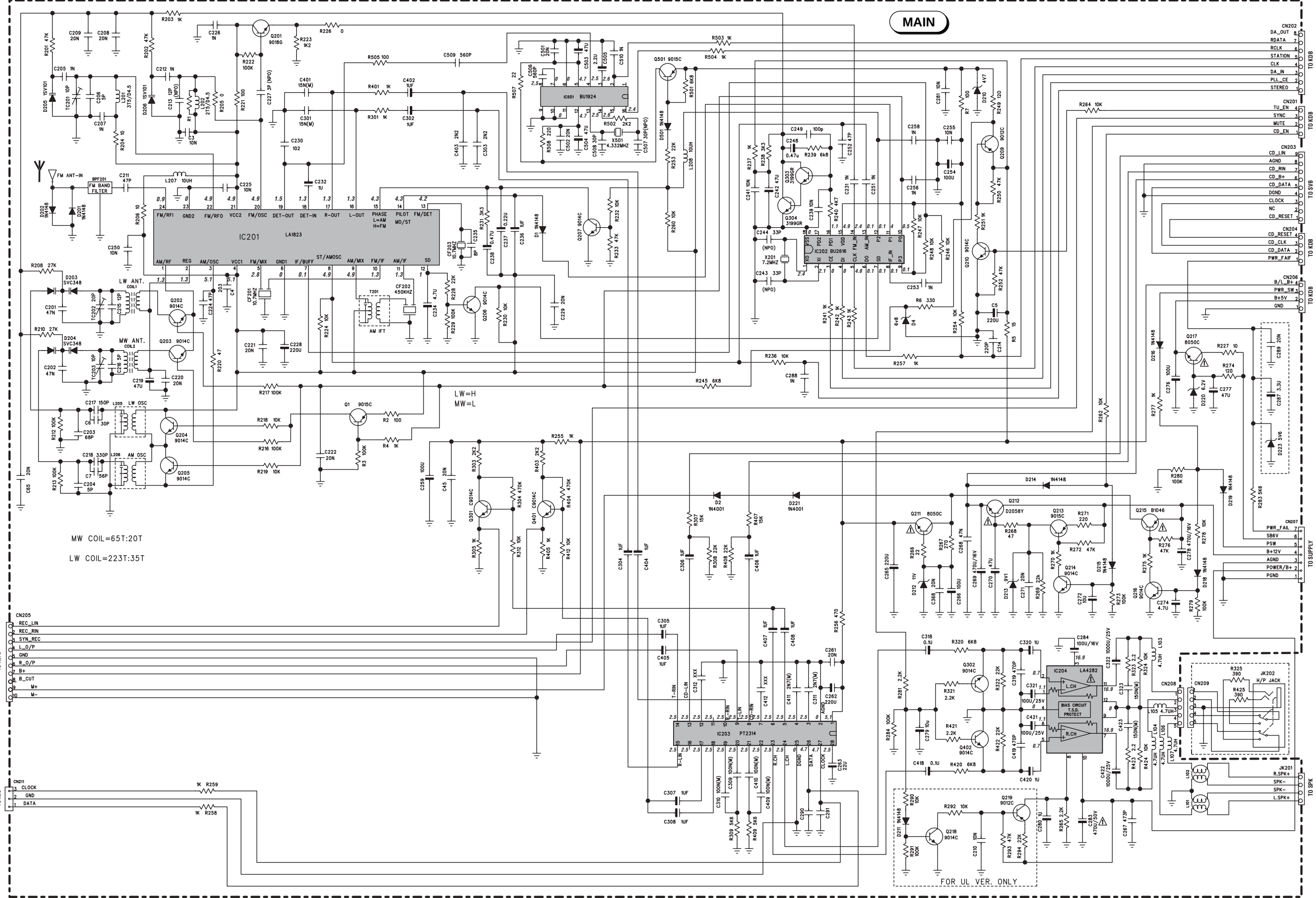
ADJUSTMENTS - RÉGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

AM alignment						
		 	f		 	  
IF	1		450 kHz	603 kHz	T201	Max.
Osc	2	MW	522 kHz		L206	↑ Vt = 1.1 ±0.1 V
	3		1620 kHz			↓ Vt = 7.5 ±0.5 V
	4	LW	150 kHz		L205	↑ Vt = 1.8 ±0.1V
	5		283 kHz			↓ Vt = 5.5 ±0.5V
MW	6	 	603 kHz	603 kHz	MW coil	Max.
	7		1404 kHz	1404 kHz	TC203	
LW	8	Ve = 1 mV	164 kHz	164 kHz	LW coil	Max.
	9		272 kHz	272 kHz	TC202	

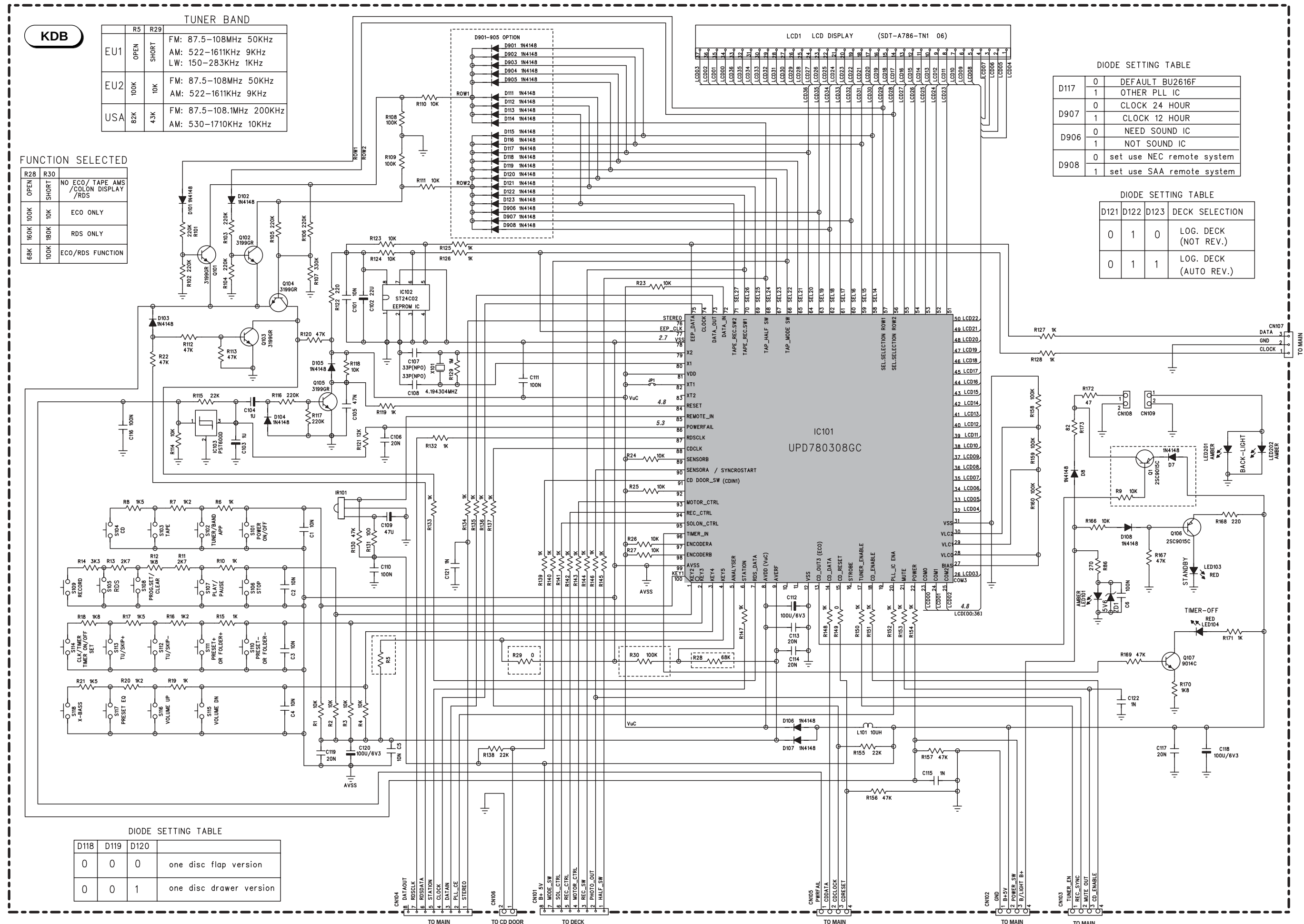
FM alignment						
		 	f		 	  
IF	1	 Ve = 1 mV	10.7 MHz			Max.  symmetry
Osc	2	 Ve = 1 mV	87.5 MHz		L202	↑ Vt = 2.0 ±0.1 V
	3		108 MHz			↓ Vt = 7.0 ±0.5 V
RF	4	 Ve = 1 mV	90 MHz	90 MHz	L201	Max.
	5		106 MHz	106 MHz	TC201	

IC204 LA4282

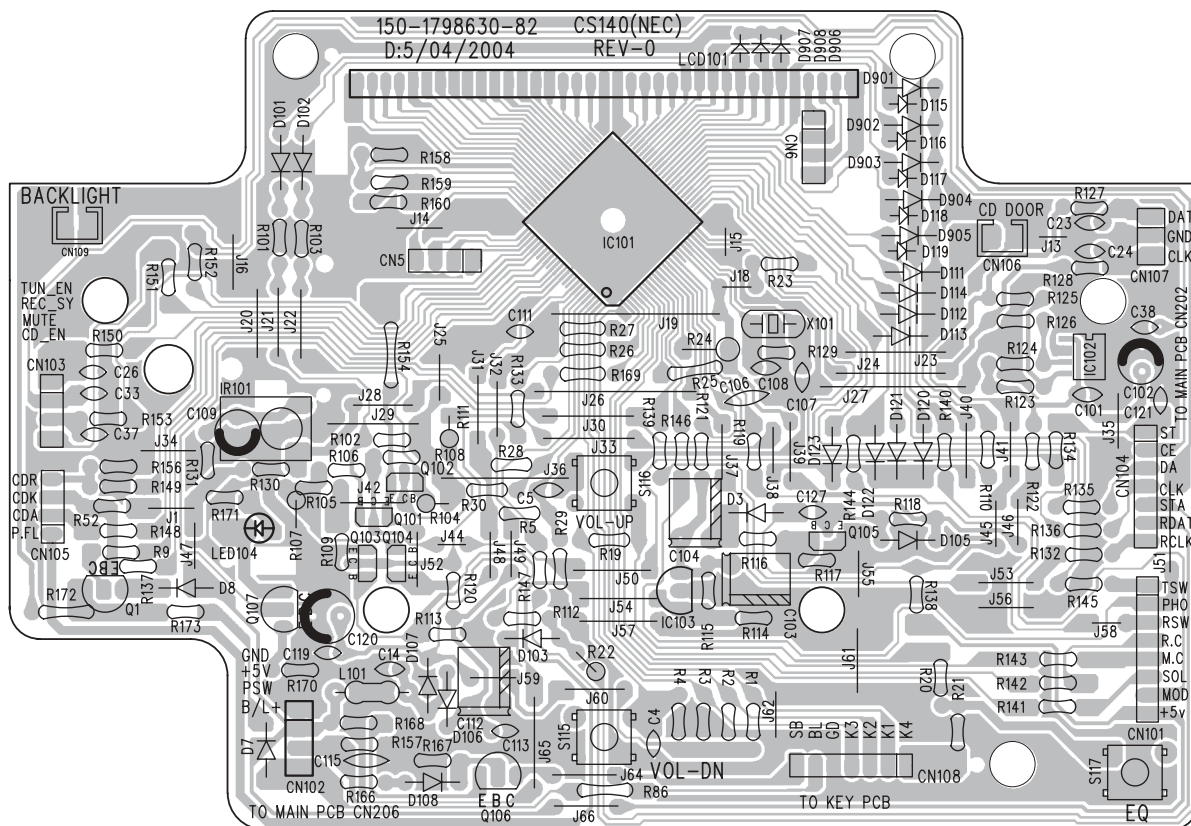




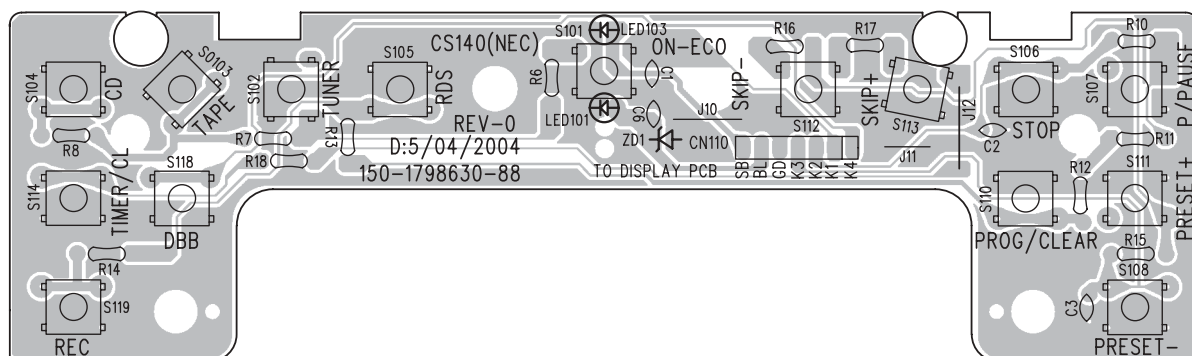
CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL / SCHALTBILD ANZEIGE - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



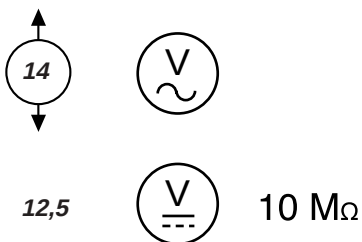
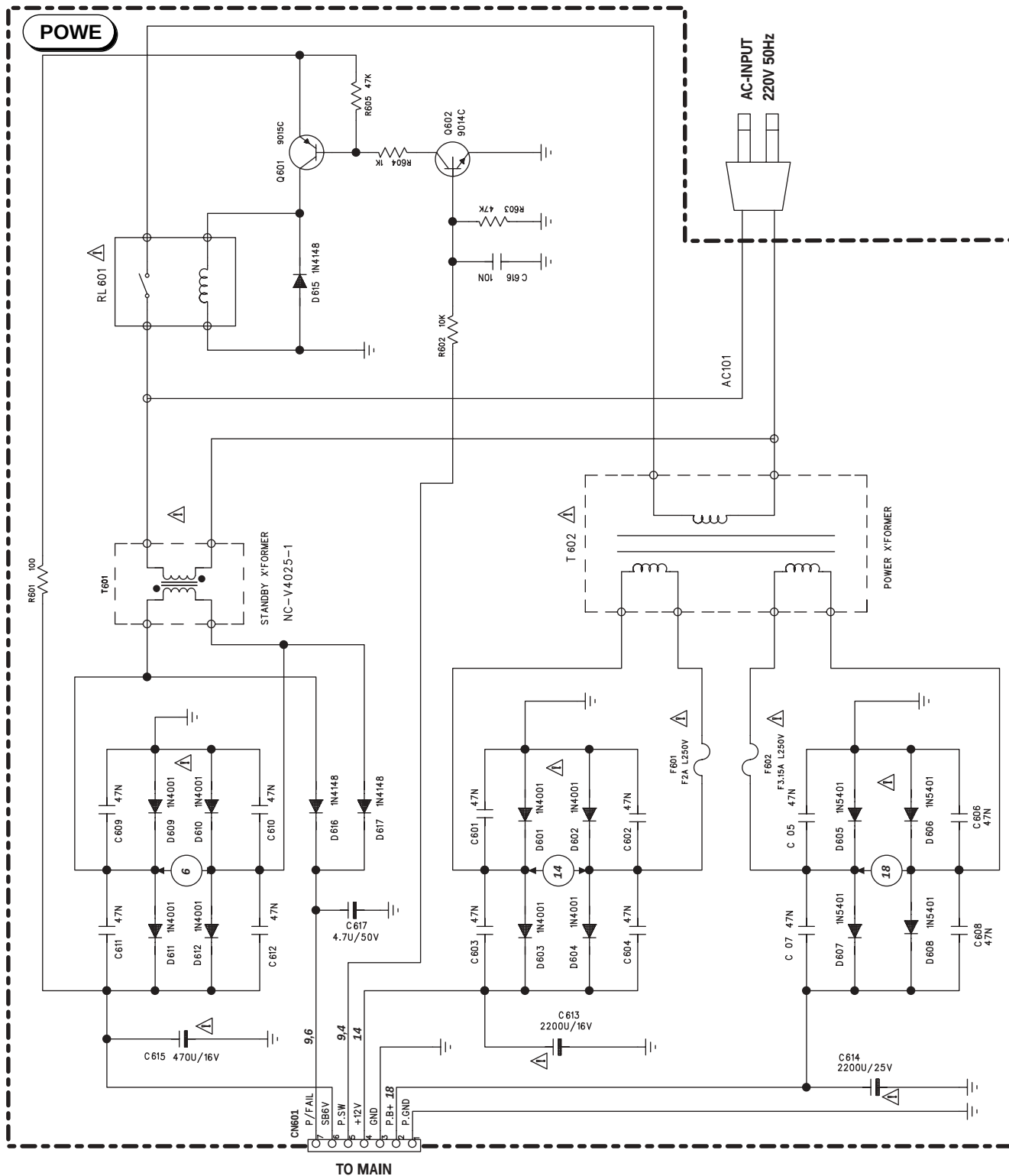
Controls / display P.C.B.
 Platine commandes / afficheurs
 Ltpl. Bedienteil / Anzeige
 Piastra comandi / indicatore
 Platina de mandos / indicadores



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



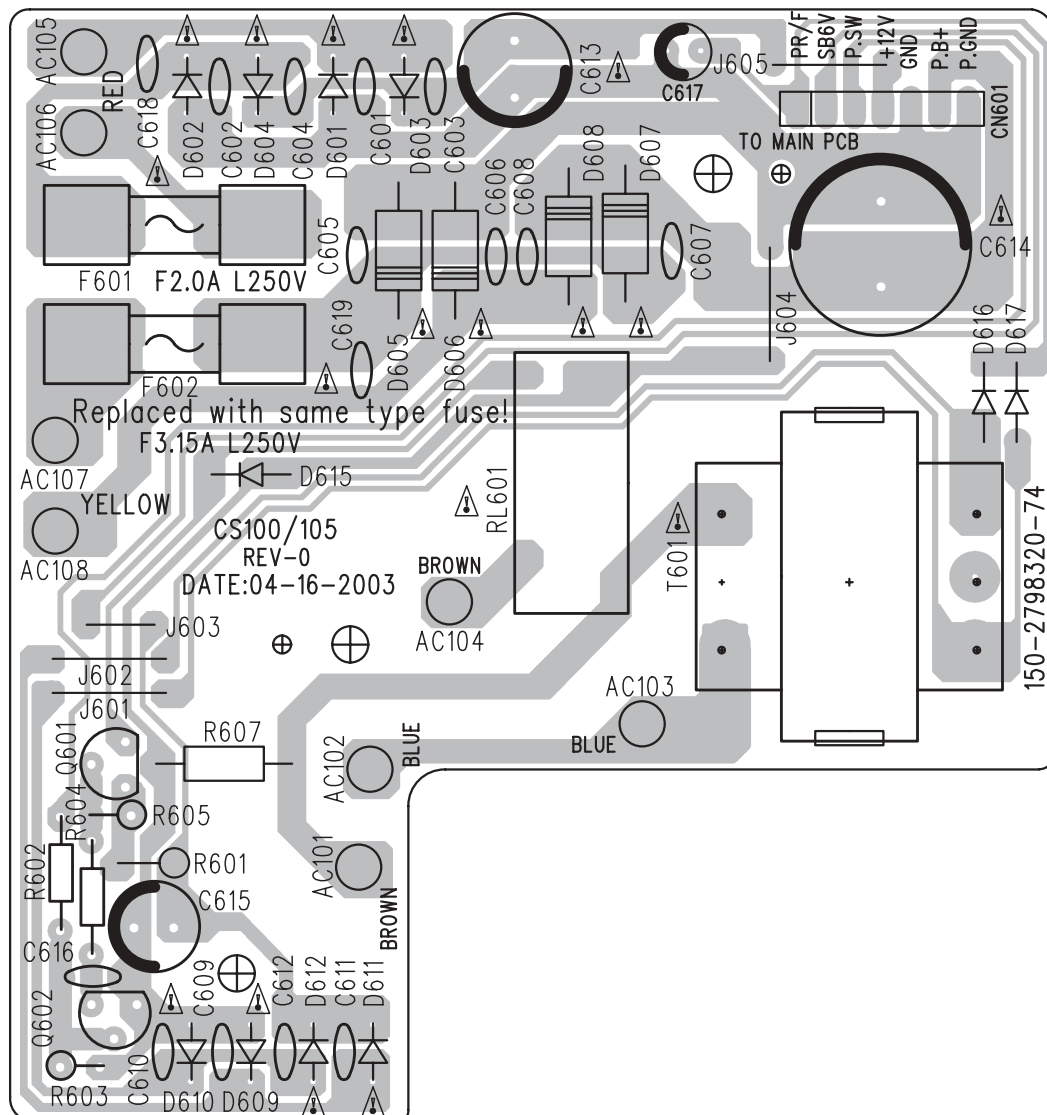
**POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD
NETZTEIL - SCHEMA DELL' ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN**



NOTES:

1. Unless otherwise specified:
 - A. All resistor values are in ohms, $1/10W$
 - B. All Capacitor values are in μF
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.

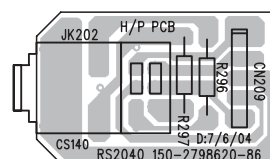
Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación



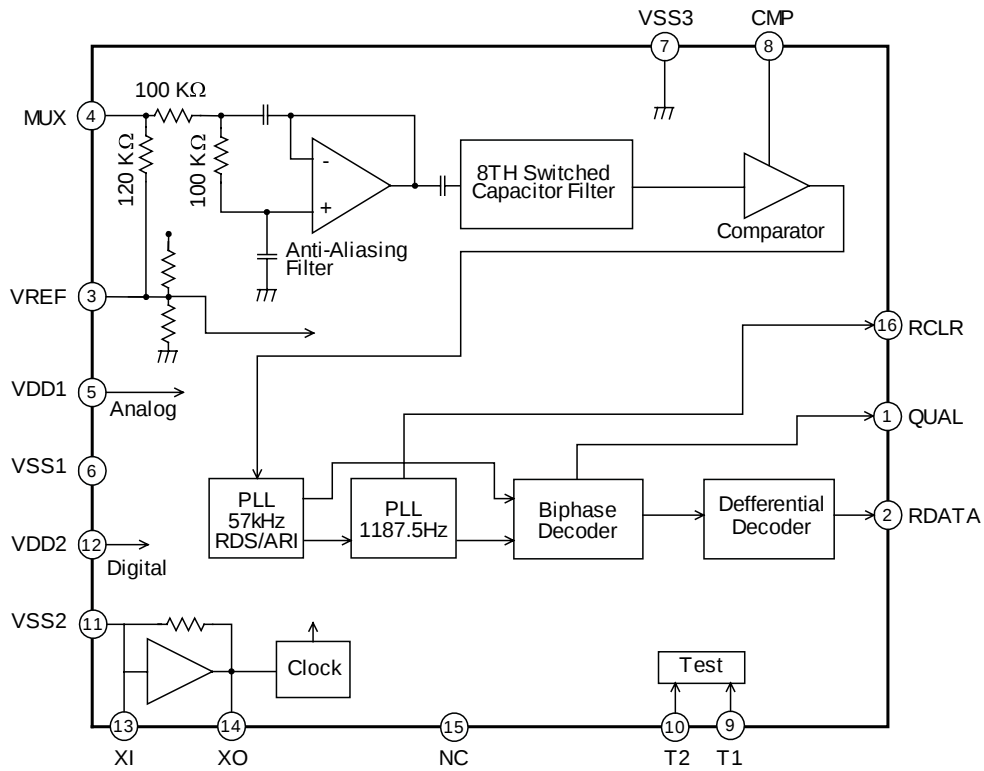
Led P.C.B.
Platine Led
Ltpl. Led
Piastra Led
Platina Led



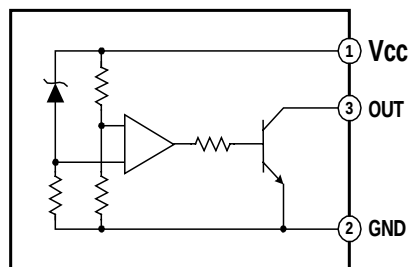
Headphone-jack P.C.B.
Platine prise-casque
Ltpl. Kopfhörerbuchse
Piastra presa per cuffia
Platina toma auriculares



IC501 BU1924F



IC103 PST600D



Abbreviations - Abreviations - Abkürzungen - Abbreviazioni - Abreviaciones

B_CUT	Beatcut	PWR_FAIL	Power Failure
CD_EN	CD Enable	PWR_SW	Power Switch
E. HD	Erase Head	R.SPK+	Right Speaker positive
GND	Ground	RCH	Right Chanel
L.SPK+	Left Speaker positive	RCH_O/P	Right Chanel Output
LCH	Left Chanel	REC_CTRL	Record Control
LCH_O/P	Left Chanel Output	REC_SW	Record Switch
LCH_RECIN	Left Chanel Record In	REC_SYNC	Record Synchronisation
LCH_RECIN	Right Chanel Record In	SPK-	Speaker negative
MOTOR_CTRL	Motor Control	SYN_REC	Synchronisation in Record mode
NC	Not Connected	TUNER_EN	Tuner Enable

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