



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.



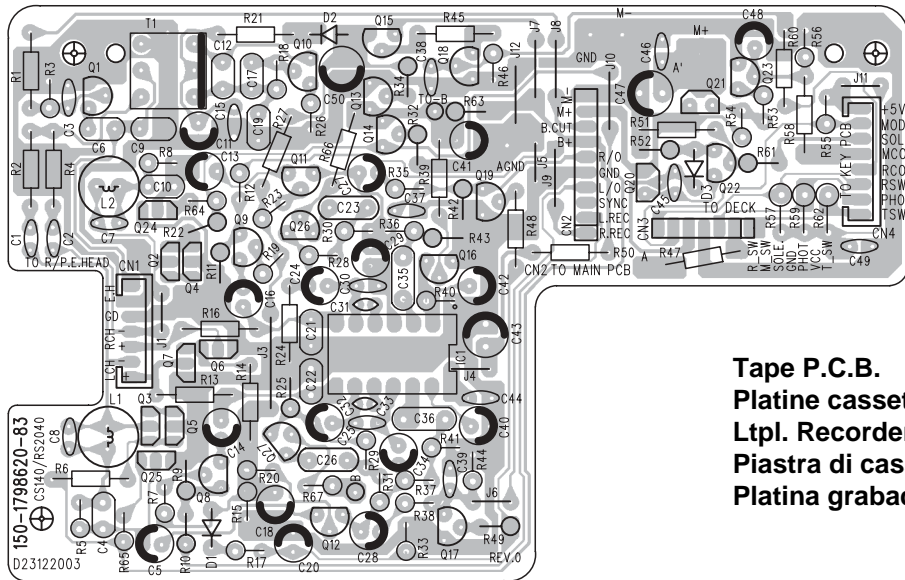
Technical data - Caractéristiques principales Technische Daten - Dati tecnici - Características del aparato

Type of set: Type d'appareil: Geräteart: Tipo d'apparecchio: Tipo de aparato:	Two-in-one horizontale combination/DAD Ensemble compact stéréophonique DAD-Zer 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:
 FM - MF: MW - PO: LW - GO:	87.5 - 108 MHz 522 - 1620 kHz 146 - 283 kHz	Sensitivity: Sensibilité: Empfindlichkeit: Sensibilità: Sensibilidad:
 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:
 Wow and flutter: Fluctuations: Gleichlauf: Fluttuazioni: Fluctuaciones:	0,35%	
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:
Dynamic range: Gamme dynamique: Dynamikumfang: Dinamica: Dinámica:	60 dB	Signal to noise ratio: Rapport signal / bruit: Geräuschspannungabstand: Rapporto segnale / disturbo: Relación señal / ruido:

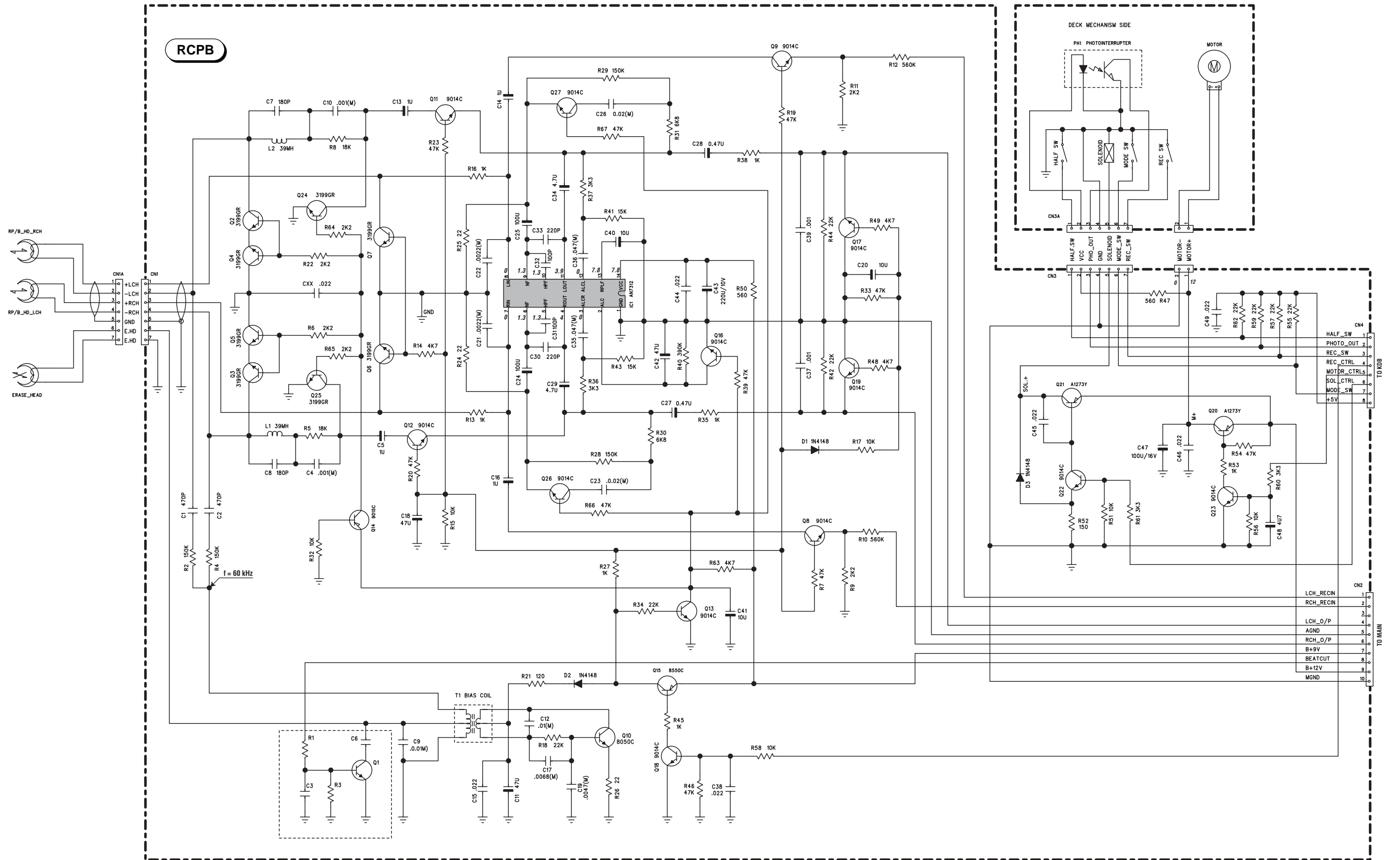


WARNING : Before servicing this chassis please read the safety recommendations.
ATTENTION : Avant toute intervention sur ce châssis, lire les recommandations de sécurité.
ACHTUNG : Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.
ATTENZIONE : Prima di intervenire sullo chassis,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

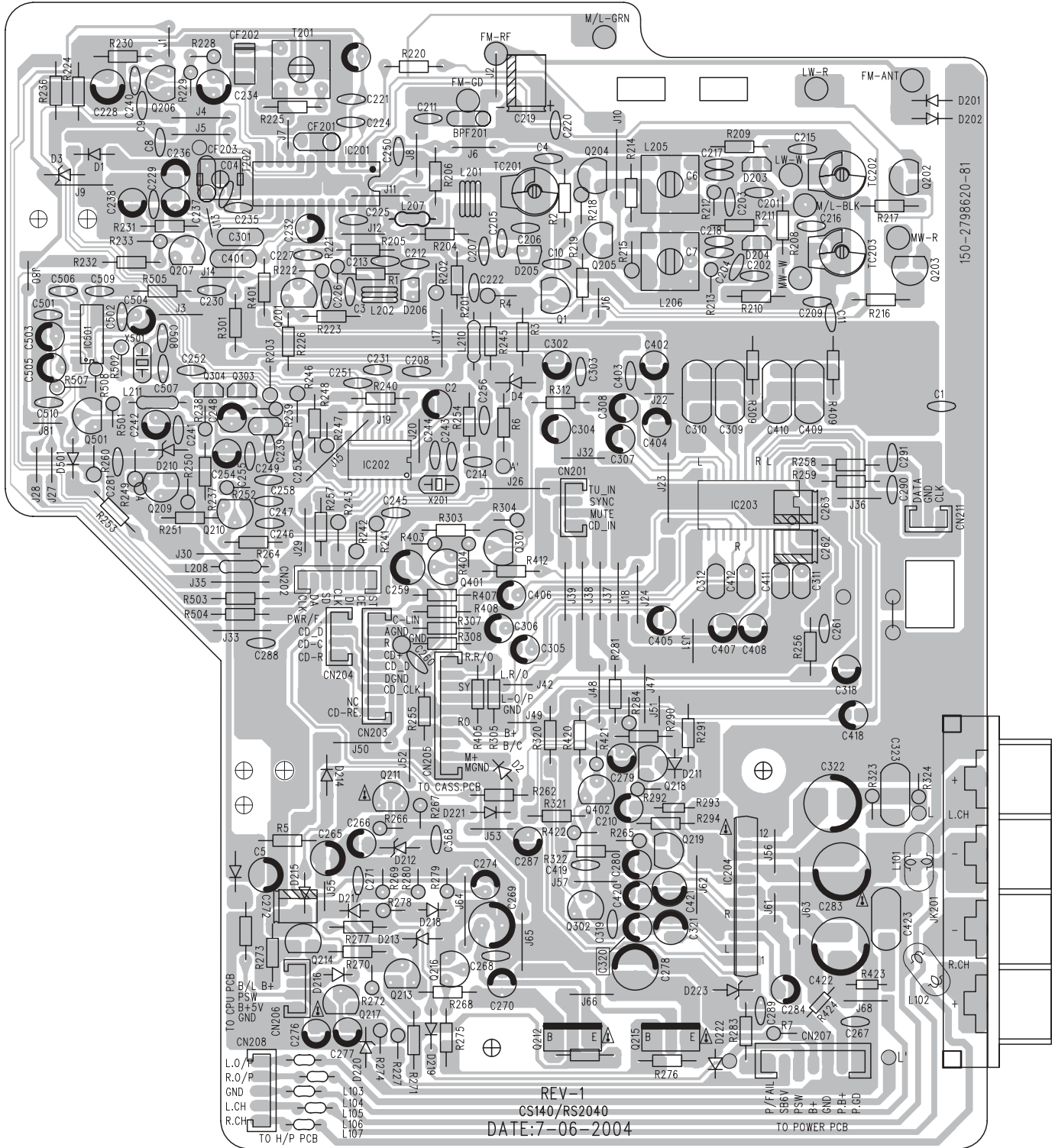
Code : 358 498 40 - 0305 / 3.7M - CRKD2142 Print.






















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













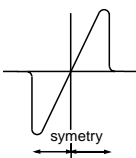









Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

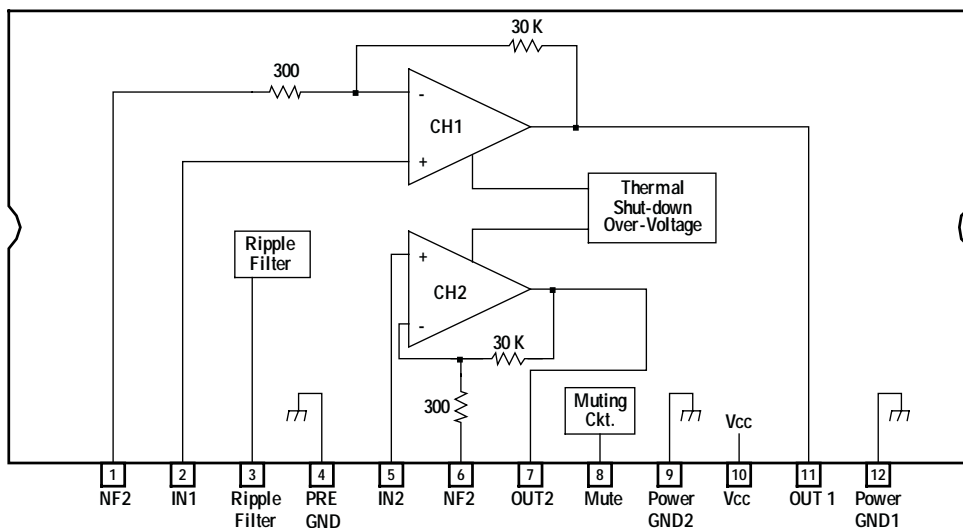


ADJUSTMENTS - RÉGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

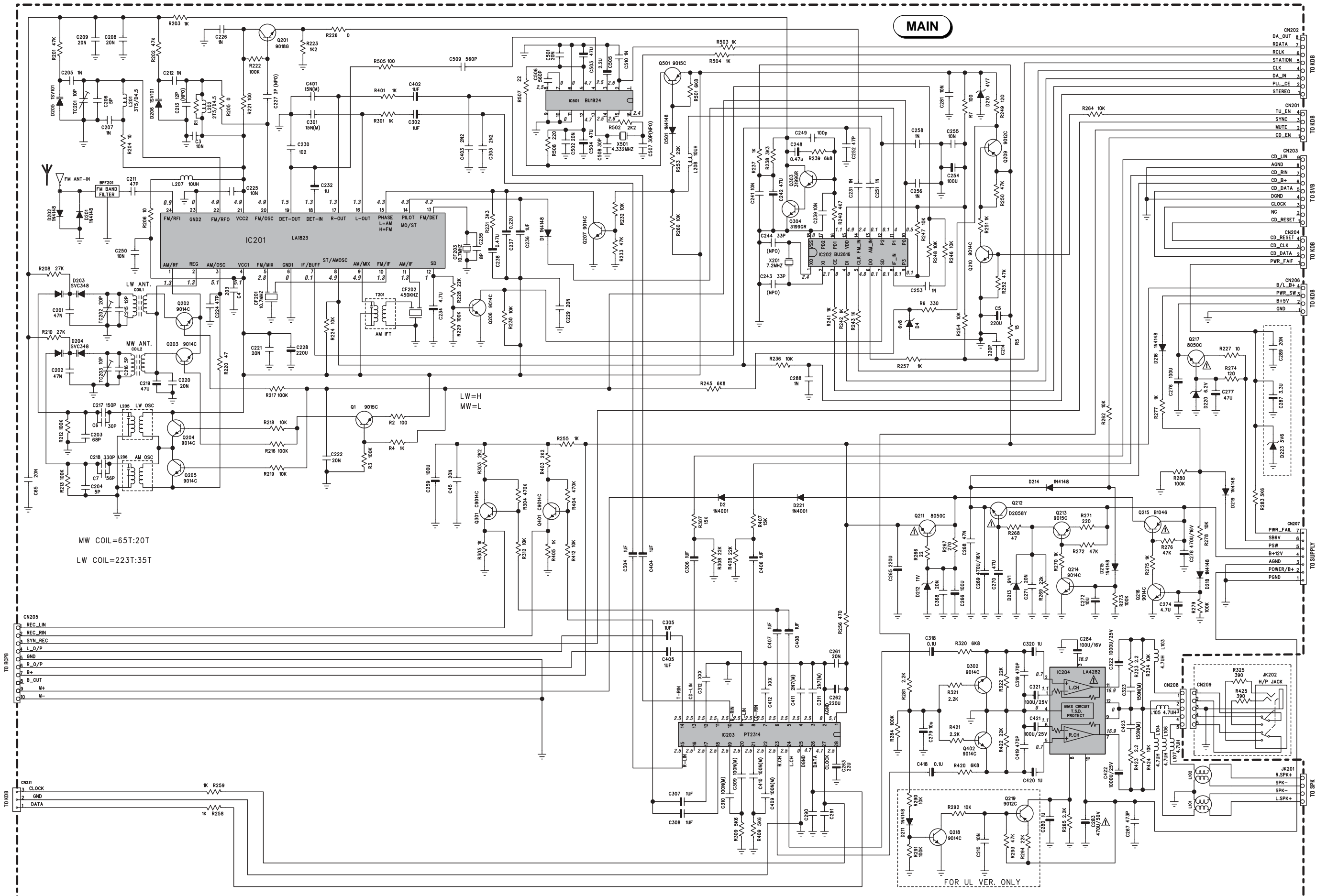
AM alignment										
				f						
IF	1			450 kHz	603 kHz		T201			Max.
Osc	2	MW		522 kHz			L206	↑		Vt = 1.1 ±0.1 V
	3			1620 kHz					↓	
	4	LW		150 kHz			L205	↑		Vt = 1.8 ±0.1V
	5			283 kHz					↓	
MW	6			603 kHz	603 kHz		MW coil	↑		Max.
	7			1404 kHz	1404 kHz		TC203	↓		
LW	8	Ve = 1 mV		164 kHz	164 kHz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

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

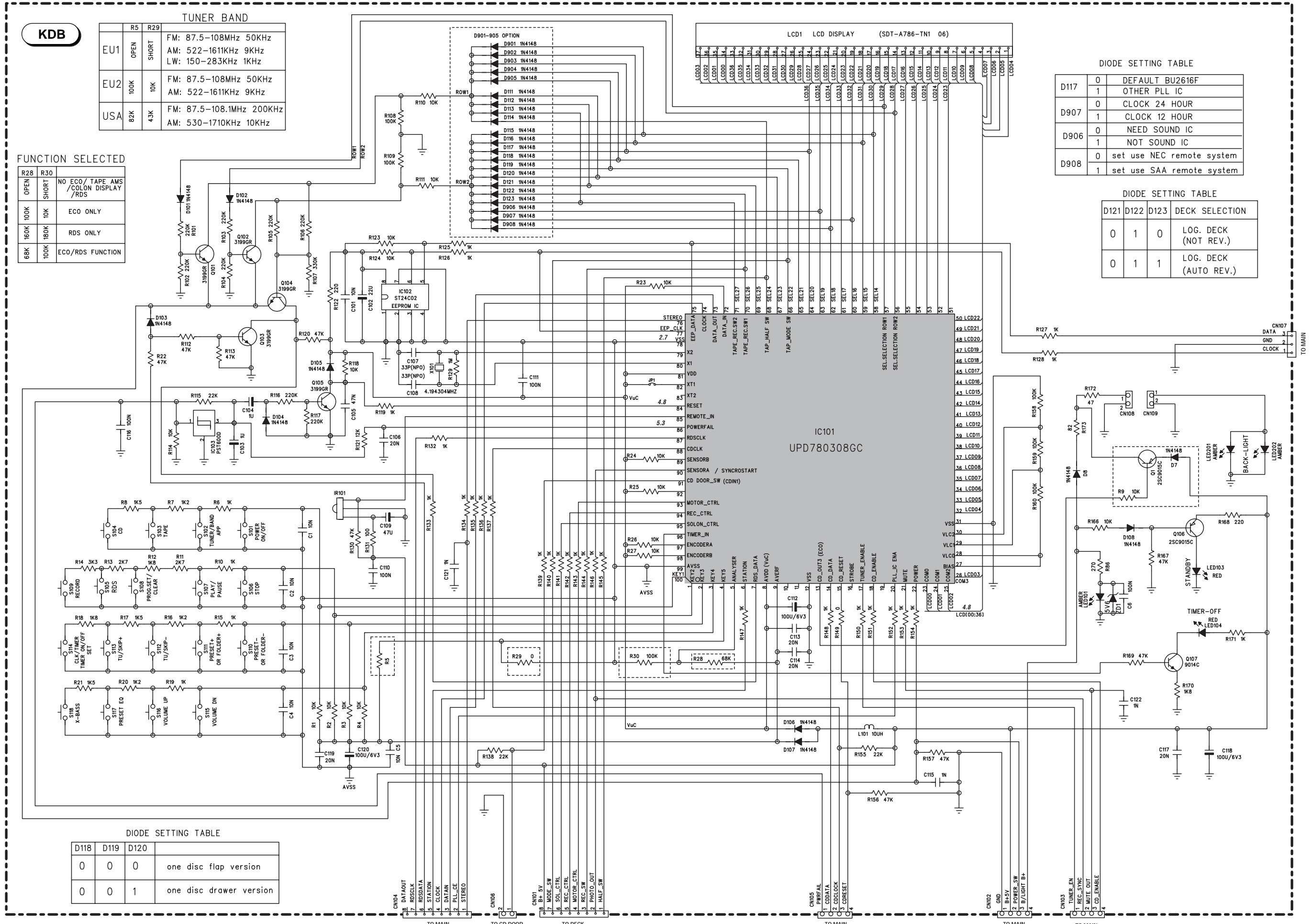
IC204 LA4282



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



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



KDB

TUNER BAND		
	R5	R29
EU1	OPEN	SHORT
EU2	100K	10K
USA	82K	43K

FM: 87.5-108MHz 50KHz
AM: 522-1611KHz 9KHz
LW: 150-283KHz 1KHz

FM: 87.5-108MHz 50KHz
AM: 522-1611KHz 9KHz

FM: 87.5-108.1MHz 200KHz
AM: 530-1710KHz 10KHz

FUNCTION SELECTED

R28	R30	
OPEN	SHORT	NO ECO / TAPE AMS / COLON DISPLAY / RDS
100K	10K	ECO ONLY
160K	180K	RDS ONLY
100K	100K	ECO/RDS FUNCTION

DIODE SETTING TABLE

D117		
0	DEFAULT	BU2616F
1	OTHER	PLL IC

D907		
0	CLOCK	24 HOUR
1	CLOCK	12 HOUR

D906		
0	NEED	SOUND IC
1	NOT	SOUND IC

D908		
0	set use	NEC remote system
1	set use	SAA remote system

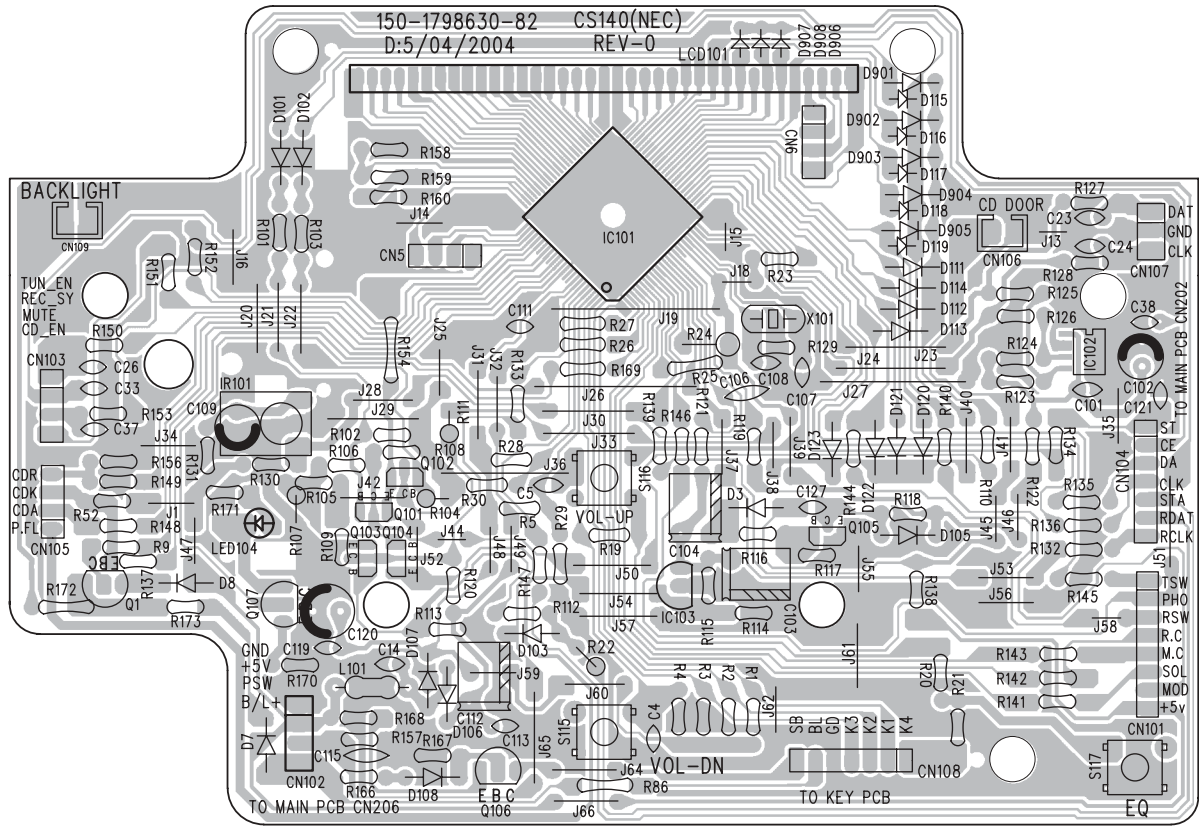
DIODE SETTING TABLE

D121	D122	D123	DECK SELECTION
0	1	0	LOG. DECK (NOT REV.)
0	1	1	LOG. DECK (AUTO REV.)

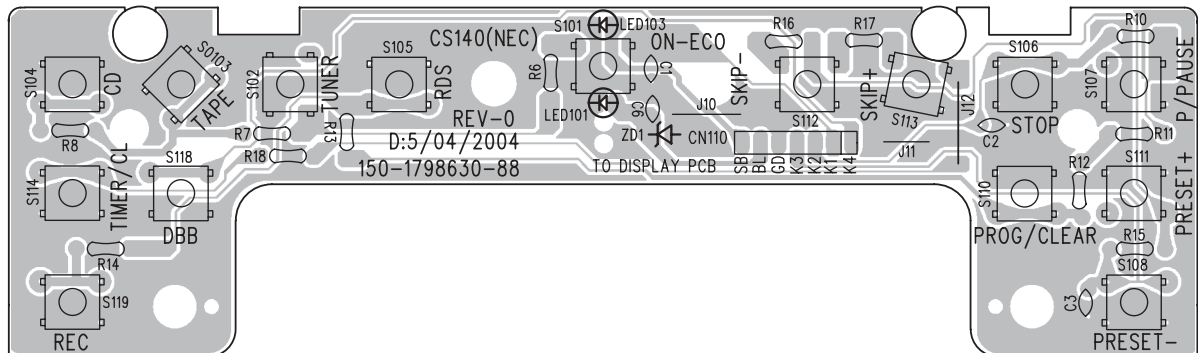
DIODE SETTING TABLE

D118	D119	D120	
0	0	0	one disc flap version
0	0	1	one disc drawer version

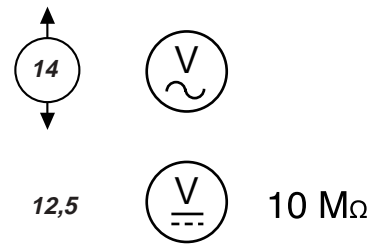
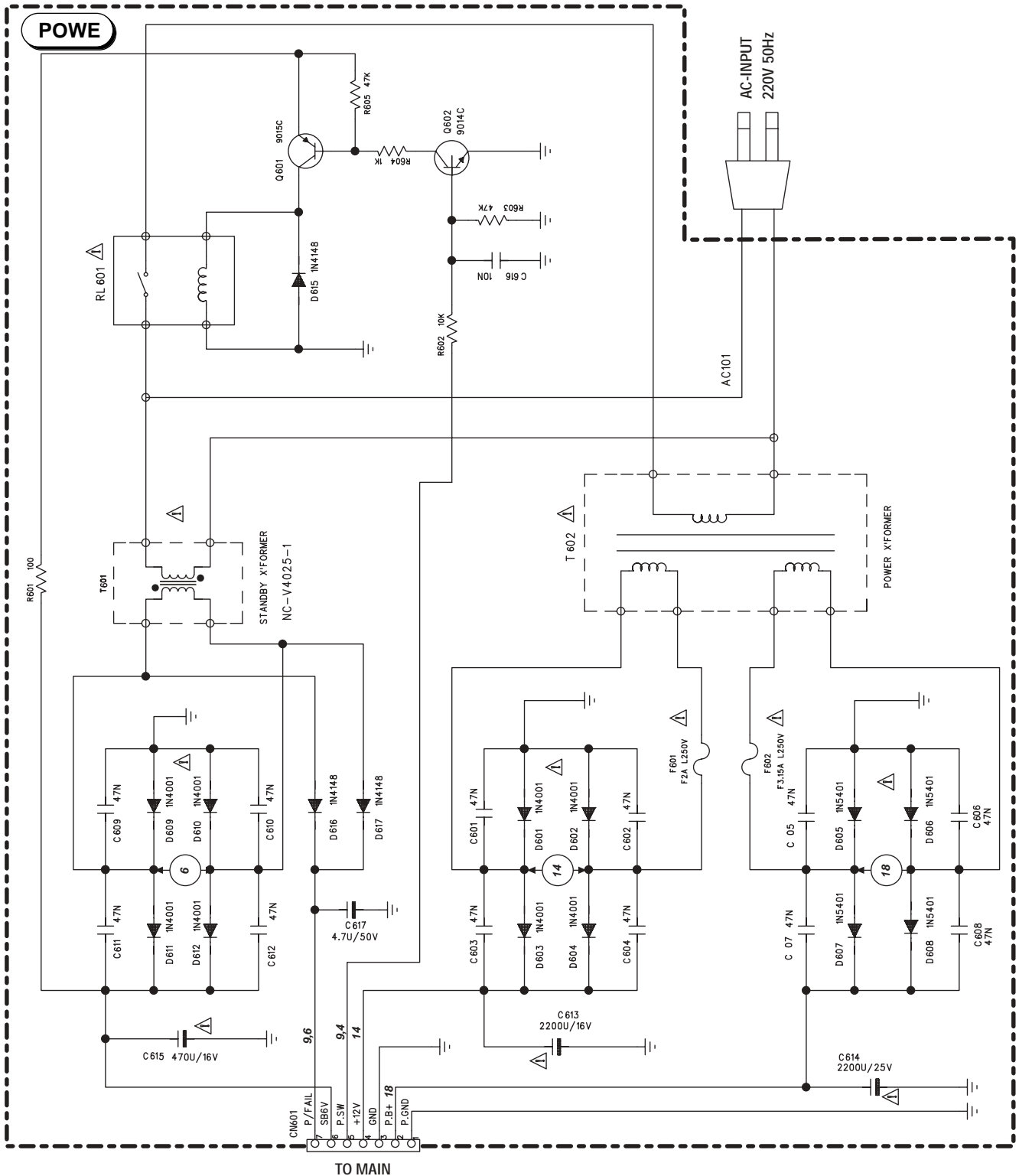
Controls / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatori
Platina de mandos / indicadores



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

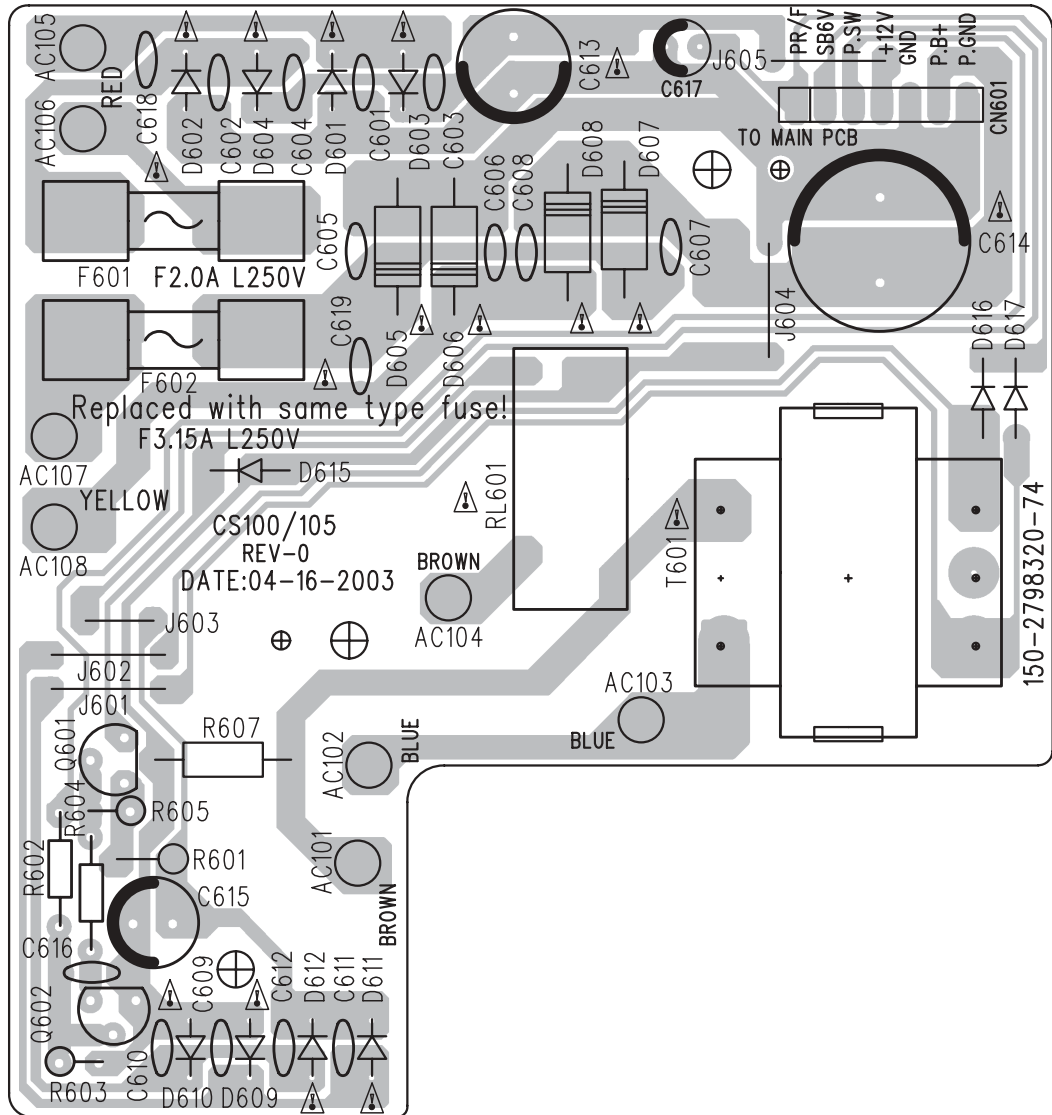


POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA DELL' ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



- NOTES:
1. Unless otherwise specified:
 A. All resistor values are in ohms, 1/10W
 B. All Capacitor values are in 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 Δ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

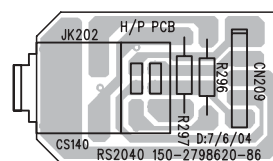
Power supply P.C.B.
 Platine alimentation
 Ltpl. Netzteil
 Piastra alimentazione
 Platina alimentación



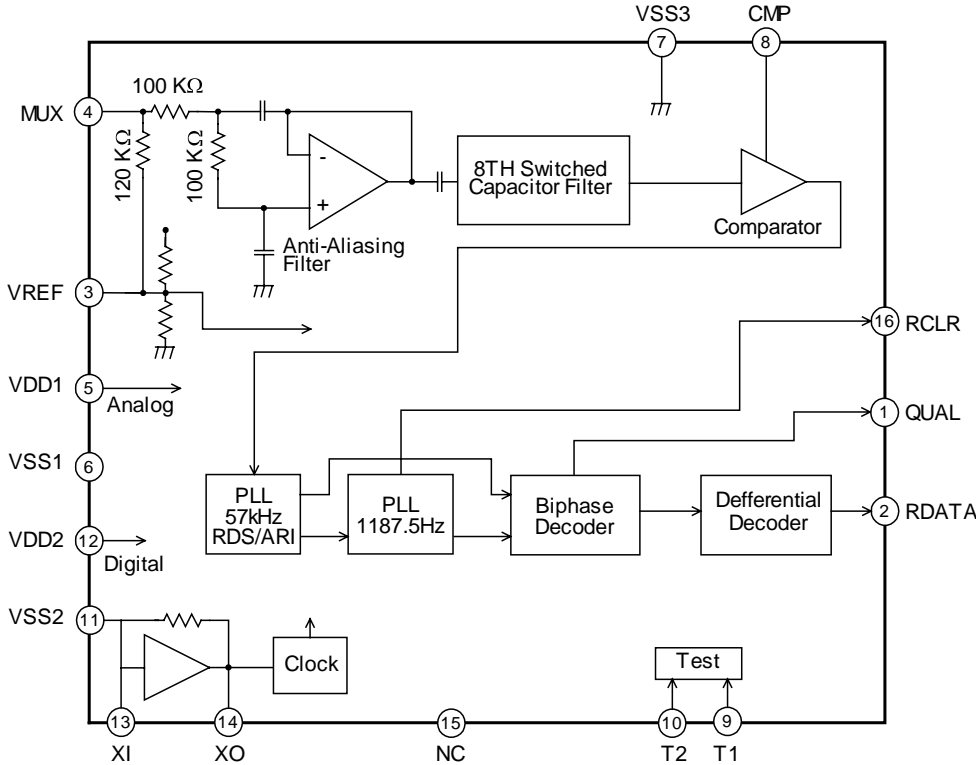
Led P.C.B.
 Platine Led
 Ltpl. Led
 Piastra Led
 Platina Led



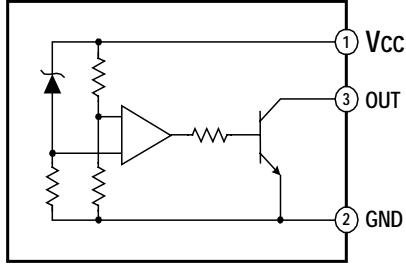
Headphone-jack P.C.B.
 Platine prise-casque
 Ltpl. Kopfhörerbuchse
 Piastra presa per cuffia
 Platina toma auriculares



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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