



ALTIMA 260 ALTIMA 360 ALTIMA 460

THOMSON

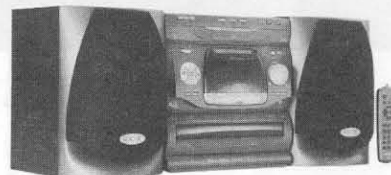
Version (PC*) : A

SERVICE MANUAL DOCUMENTATION TECHNIQUE TECHNISCHE DOKUMENTATION DOCUMENTAZIONE TECNICA DOCUMENTACION TECNICA

*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.



ALTIMA 260



ALTIMA 360/ALTIMA 460

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

Type of set : Two-in-one horizontal, combination Hifi/CD Type d'appareil : Ensemble compact stéréophonique Hifi/CD Geräteart : 2er Horizontal Kompaktanlage Hifi/CD Tipo de aparato : Equipo compacto estereofónico Hifi/CD Tipo d'apparecchio : Insieme compatto stereofonico Hifi/CD			
Power supply : Alimentation : 230 V ~ 50 Hz Stromversorgung : Alimentazione : Alimentación :		Nominal output power : Puissance nominale de sortie : 2x16 W (rms) Nennausgangsleistung : Potenza nominale di uscita : 2x40 W (rms) Potencia nominal de salida :	
	Signal to noise ratio : Rapport signal / bruit : 55 dB Geräuschspannungsabstand : Relación señal / ruido : Rapporto segnale / disturbo :	Sensitivity : Sensibilité : FM - MF : 4 µV (S/N = 26 dB) Empfindlichkeit : MW - PO : 800 µV/m (S/N = 20 dB) Sensibilità : LW - GO : 2000 µV/m (S/N = 20 dB) Sensibilidad :	
	Frequency response : Courbe de réponse : 125 Hz - 10 kHz Frequenzgang : (-5 dB) Curva di risposta : Curva de respuesta :	Signal to noise ratio : Rapport signal / bruit : 44 dB Geräuschspannungsabstand : Rapporto segnale / disturbo : Relación señal / ruido :	
	Wow and flutter : Fluctuations : 0,25 % Gleichlauf : Fluttuazioni : Fluctuaciones :		
	Disc rotation speed : Vitesse de rotation du disque : 200 → 500 tr/m CD-Drehgeschwindigkeit : Velocità di rotazione del disco : Velocidad de rotación del disco :	Frequency response : Courbe de réponse : 40 Hz - 16 kHz Frequenzgang : (-4 dB) Curva di risposta : Curva de respuesta :	
DAD	Total harmonic distortion : Distorsion harmonique : 0,5 % Klirrfaktor : Distorsione armonica : Distorsión armónica :	Signal to noise ratio : Rapport signal / bruit : 65 dB Geräuschspannungsabstand : Rapporto segnale / disturbo : Relación señal / ruido :	



WARNING : Before servicing this set read the safety recommendations.
ATTENTION : Avant toute intervention sur cet appareil, lire les recommandations de sécurité.
ACHTUNG : Bei jedem Eingriff in das Gerät, die Sicherheitsvorschriften beachten.
ATTENZIONE : Prima di intervenire sull'apparecchio, leggere le norme di sicurezza.
IMPORTANTE : Antes de cualquier intervención, leer las recomendaciones de seguridad.



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

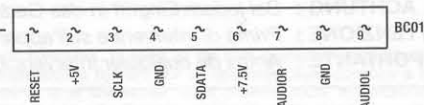
IMPORTANTE :

El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.

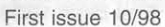
**DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL
- SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE -
ESQUEMA DEL TRATAMIENTO DIGITAL**

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 :

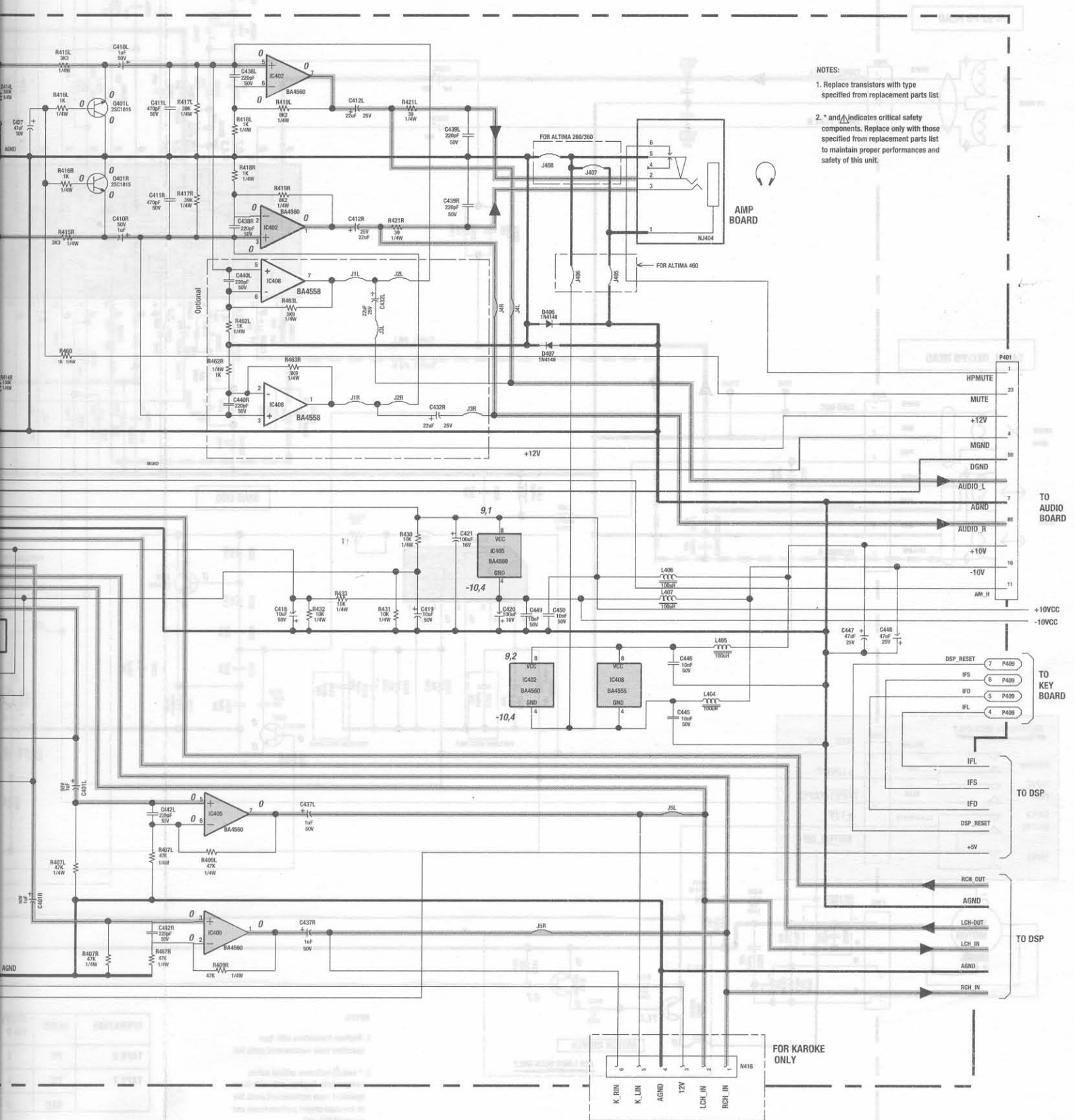
105 428 80



(AUDIO PART)

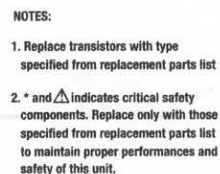


MIAM



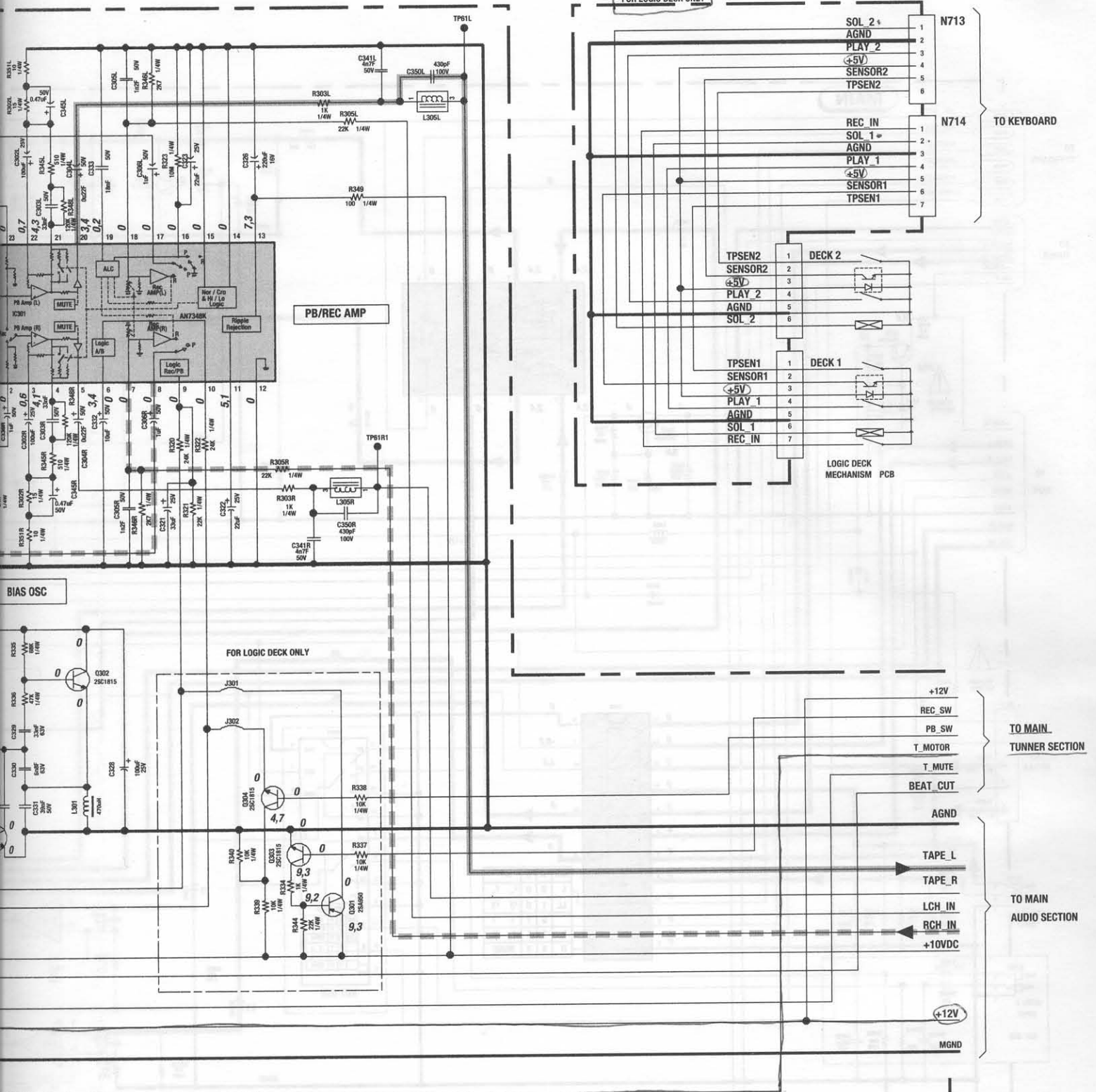
- NOTES:
1. Replace transistors with type specified from replacement parts list
 2. * and Δ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit.

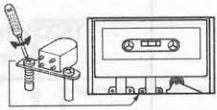
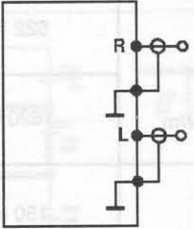
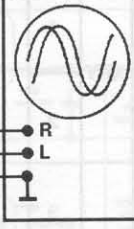
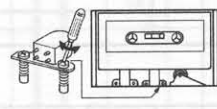
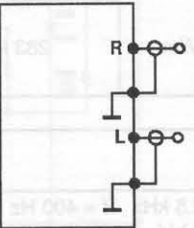
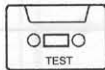
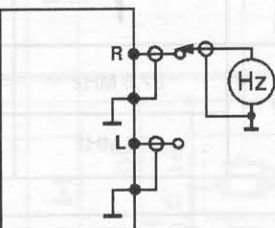
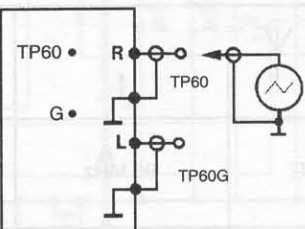
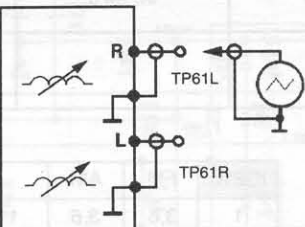
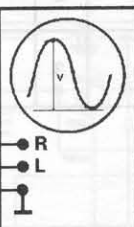
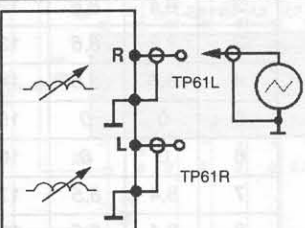
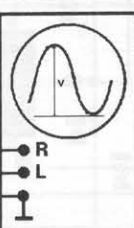
MAIN SCHEM (TAPE PART)



OPERATION	MODE	P	F
TAPE 2	PB		
TAPE 1	PB		
	REC		

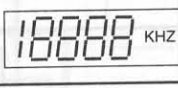
NDPLATTE SCHALTBIELD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL

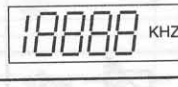


ADJUSTMENTS	REGLAGES	EINSTELLUNGEN	REGOLAZIONE	AJUSTES
1 Tape tension Tension de bande Bandzug Tensione del nastro Tensión de la cinta	 DYNAMOMETER			 40 g / cm < M < 60 g / cm << <<<>>> >>>>>> 80 g / cm < M < 150 g / cm
2 Azimuth adjustment Réglage d'azimut Tonkopfeinstellung Regolazione azimut Ajuste de azimut  1 / A  2 / B	 TEST  f = 12,5 kHz			$\varnothing R = \varnothing L$ 
3 Azimuth adjustment Réglage d'azimut Tonkopfeinstellung Regolazione azimut Ajuste de azimut  1 / A	 TEST  f = 12,5 kHz			$\varnothing R = \varnothing L$ 
4 Tape speed Vitesse de défilement Bandgeschwindigkeit Velocità del nastro Velocidad de la cinta	 TEST  f = 3 kHz	 1 / A  2 / B  RV301		f = 3 KHz $\pm$ 90 Hz
5 Bias adjutment Courant de pré-magnétisation Vormagnetisierung Corrente di pre-magnetizzazione Corriente de pre-magnetización	 NORMAL  A / 1	 RV302		V = 24,5 V $\pm$ 1V f = 76 KHz $\pm$ 5 KHz
6 Altima 260 Record bias leakage Réjecteur pré-magnétisation Abgleich Sperrkreise Vormagnetisierungsfrequenz Relettore corrente di pre-magnetizzazione Trampa corriente de pre-magnetización	 NORMAL  A / 1	L305L L305R		v Min. 
7 Altima 360 / Altima 460 Record bias leakage Réjecteur pré-magnétisation Abgleich Sperrkreise Vormagnetisierungsfrequenz Relettore corrente di pre-magnetizzazione Trampa corriente de pre-magnetización	 NORMAL  A / 1  B / 2	L305L L305R		v Min. 

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

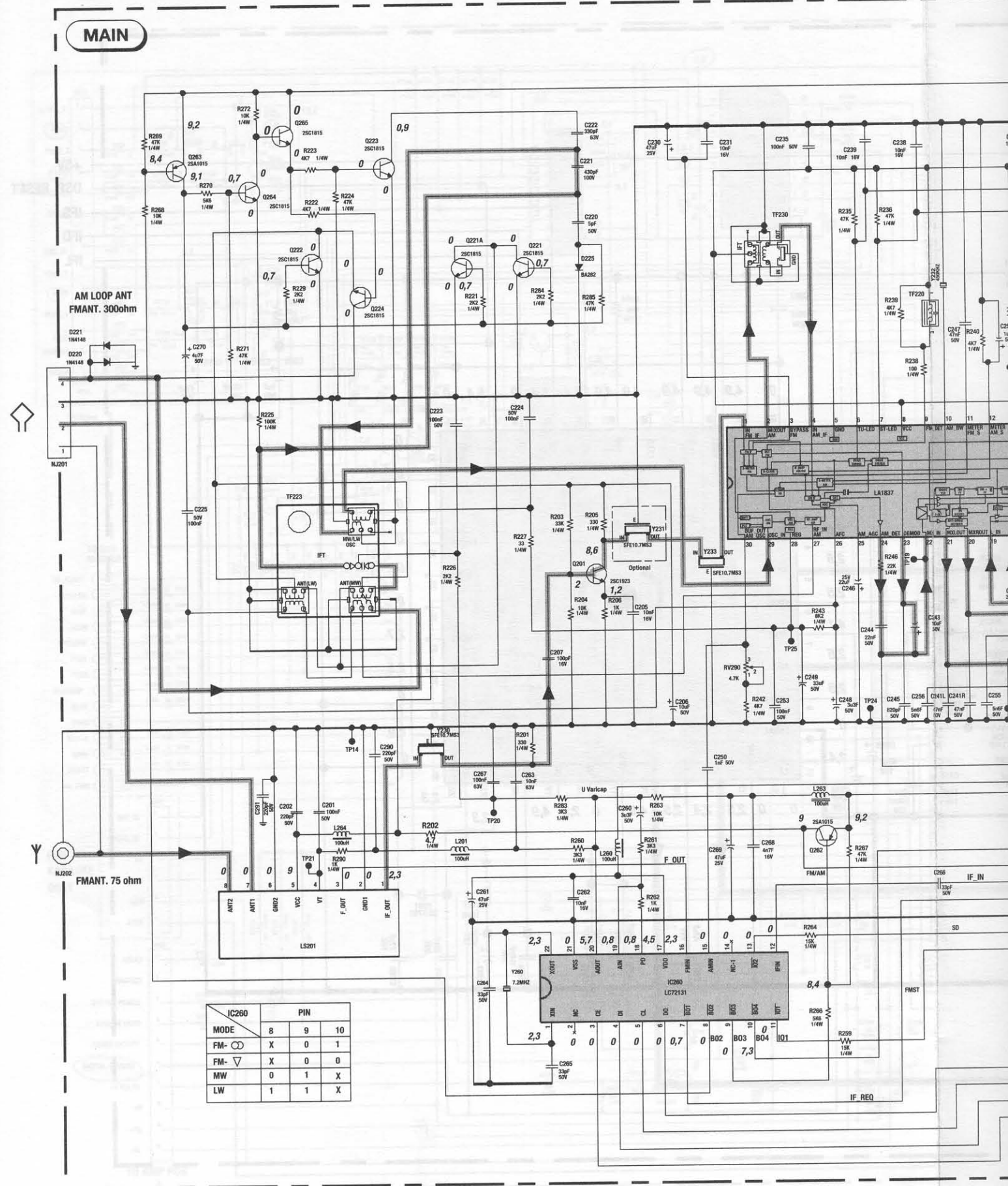
AM alignment						
		 	f		 	 
MW	1		522 kHz	522 kHz		TP20 $V = 1,5\text{ V} \pm 0,5\text{V}$
	2	$V_e > 1000\text{ }\mu\text{V/m}$	1620 kHz	1620 kHz		TP20 $V = 7,2\text{ V} \pm 0,5\text{V}$
LW	3		150 kHz	150 kHz		TP20 $V = 1,2\text{ V} \pm 0,4\text{V}$
	4	$V_e > 2500\text{ }\mu\text{V/m}$	283 kHz	283 kHz		TP20 $V = 6\text{ V} \pm 0,5\text{V}$

FM alignment						
		$\Delta f = 22,5\text{ kHz}$ $f = 400\text{ Hz}$  	f		 	 
FM	1	 $10\text{ }\mu\text{V}$	87,5 MHz	87,5 MHz		$V = 2\text{ V} \pm 0,5\text{V}$
			108 MHz	108 MHz		$V = 7\text{ V} \pm 0,6\text{V}$

FM Auto stop alignment						
		 	f		 	
	1	$V_e = 45\text{ }\mu\text{V}$	98 MHz	98 MHz	TF 220	TP25 R243 IC210 (26) $V = 0\text{ V} \pm 0,2\text{ V}$
	2	$V_e = 20\text{ }\mu\text{V}$	98 MHz	98 MHz	RV 290	IC210 (6) $V = 0,6\text{ V} \pm 0,2\text{ V}$
	3			98,5 MHz		IC210 (6) $V > 5\text{V}$

IC210	FM	AM		FM	AM		FM	AM
1	3,6	3,6	11	3,5	0	21	3,3	3,3
2	8,4	8,6	12	0	2,3	22	2,9	2,9
3	3,6	8,6	13	0,2	0,2	23	3,7	3
4	3,6	3,6	14	7,3	4,4	24	0	1,2
5	0	0	15	7,3	7,4	25	0	1,1
6	0	0	16	4,3	4,3	26	3,5	3,6
7	8,4	8,5	17	4,3	4,3	27	3,5	3,6
8	8,4	8,6	18	4,3	4,3	28	3,7	3,7
9	8,4	8,6	19	4,3	4,3	29	3,7	3,7
10	1,3	1,3	20	3,3	3,3	30	2,2	2

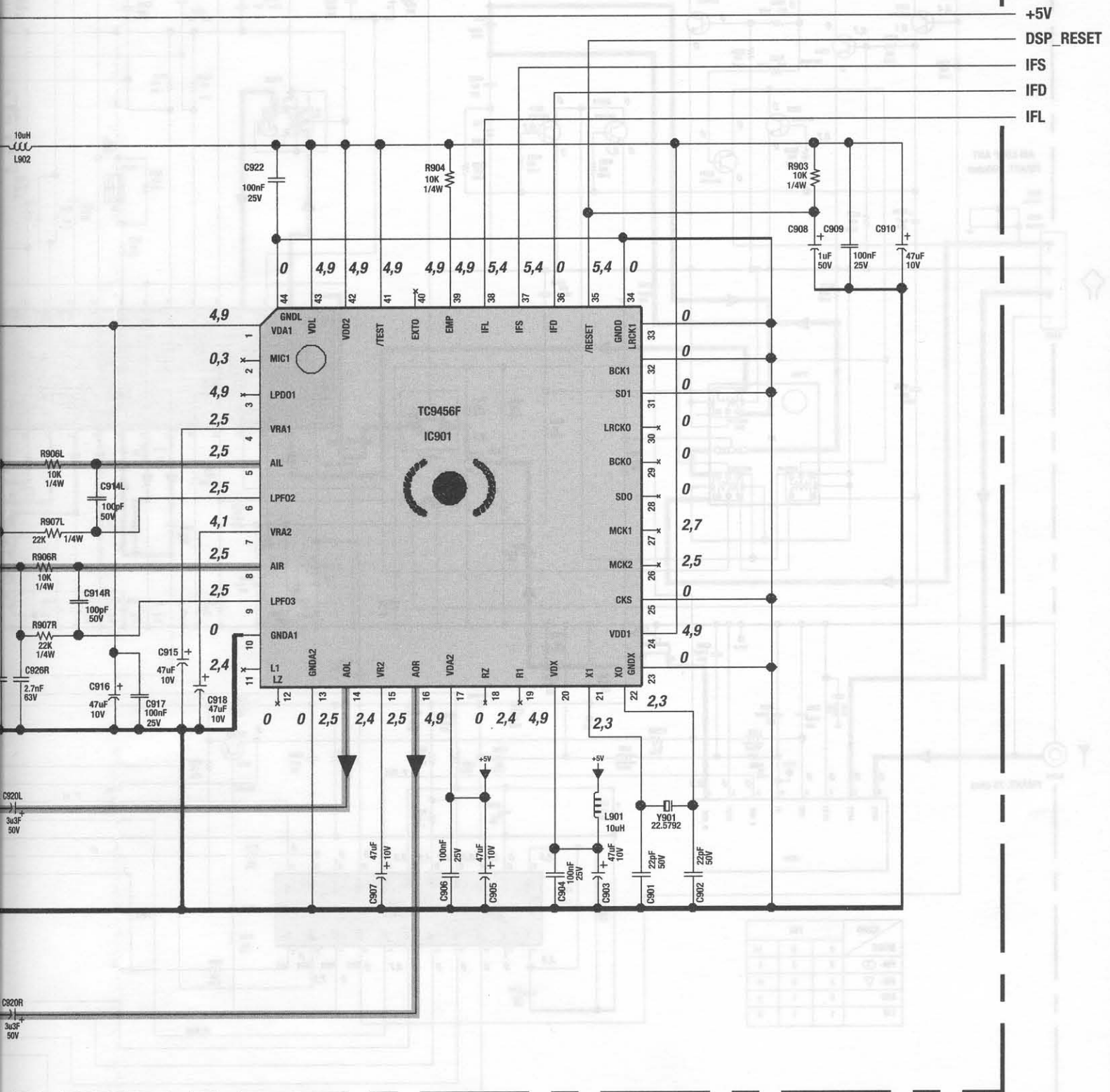
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILOD (TUNER PART)

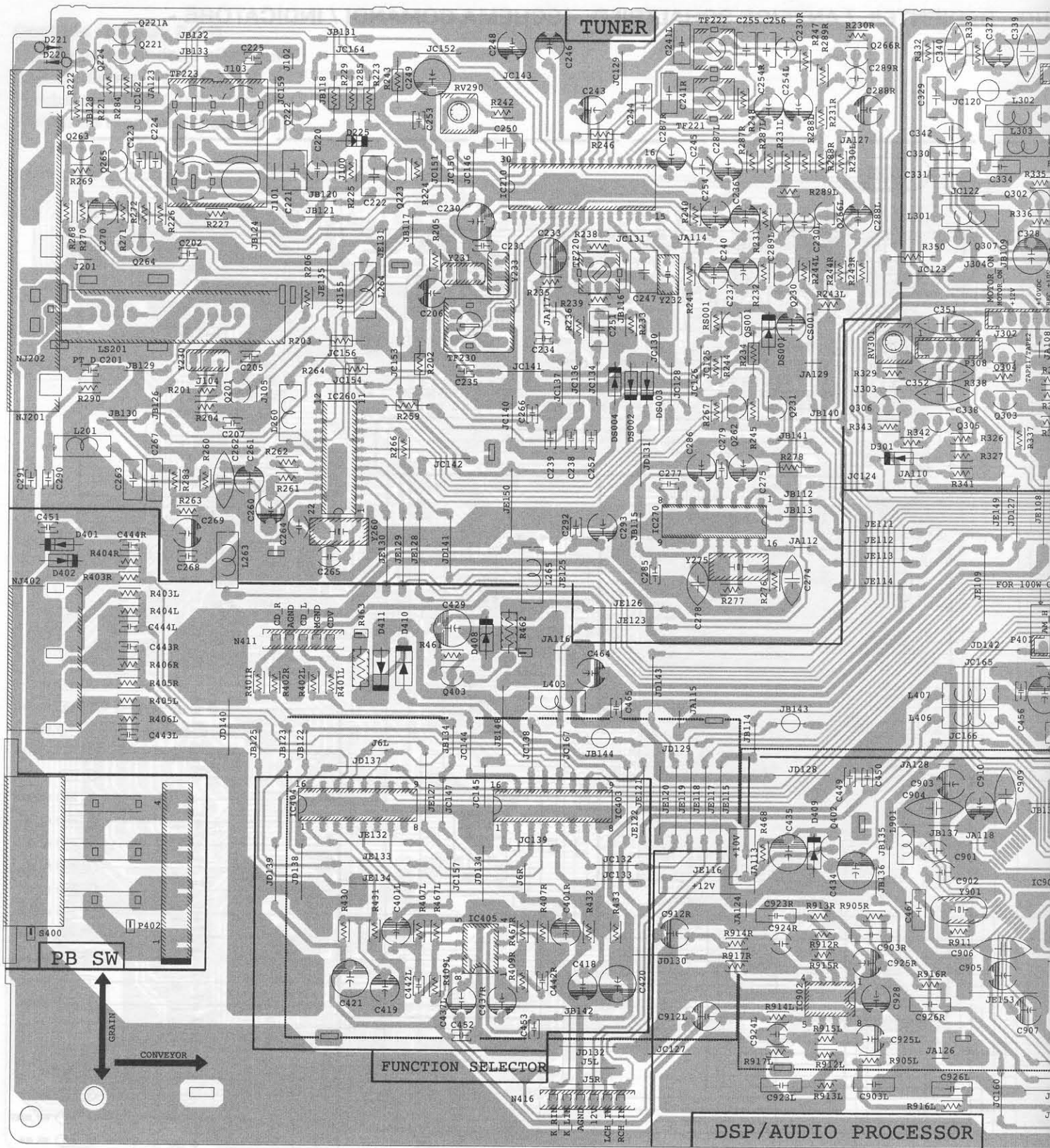




(DIGITAL SOUND PROCESSOR PART)







Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

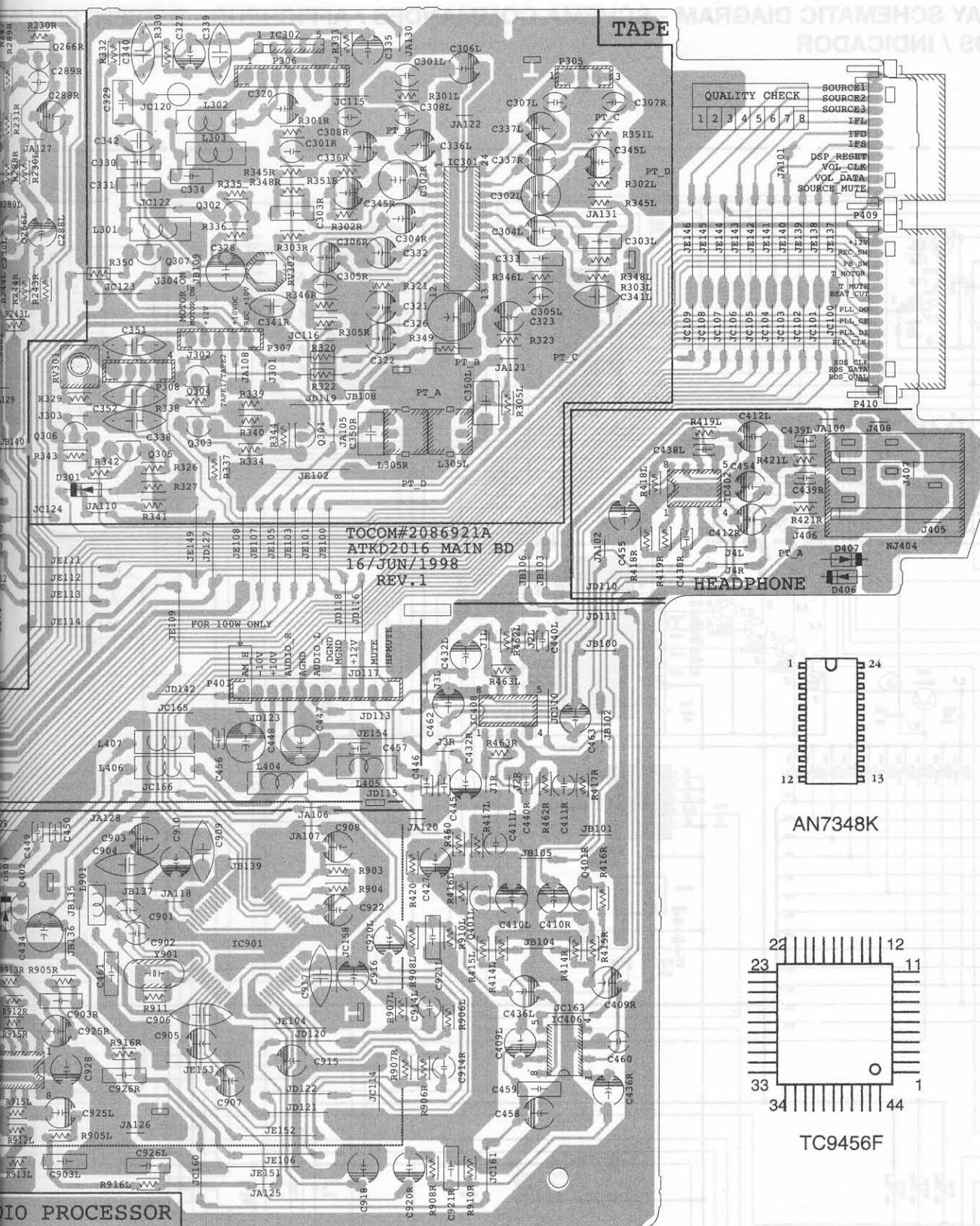


BA7755A



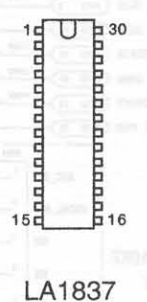
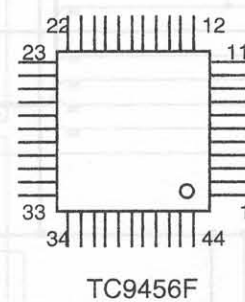
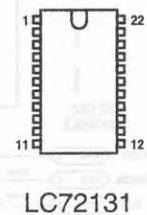
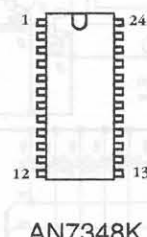
2SA1015
2SA950
2SC1815
2SC2120
2SC2236

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

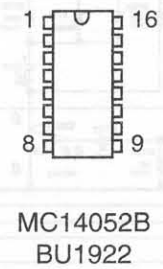


QUALITY CHECK

1	2	3	4	5	6	7	8
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- 2SA1015
- 2SA950
- 2SC1815
- 2SC2120
- 2SC2236

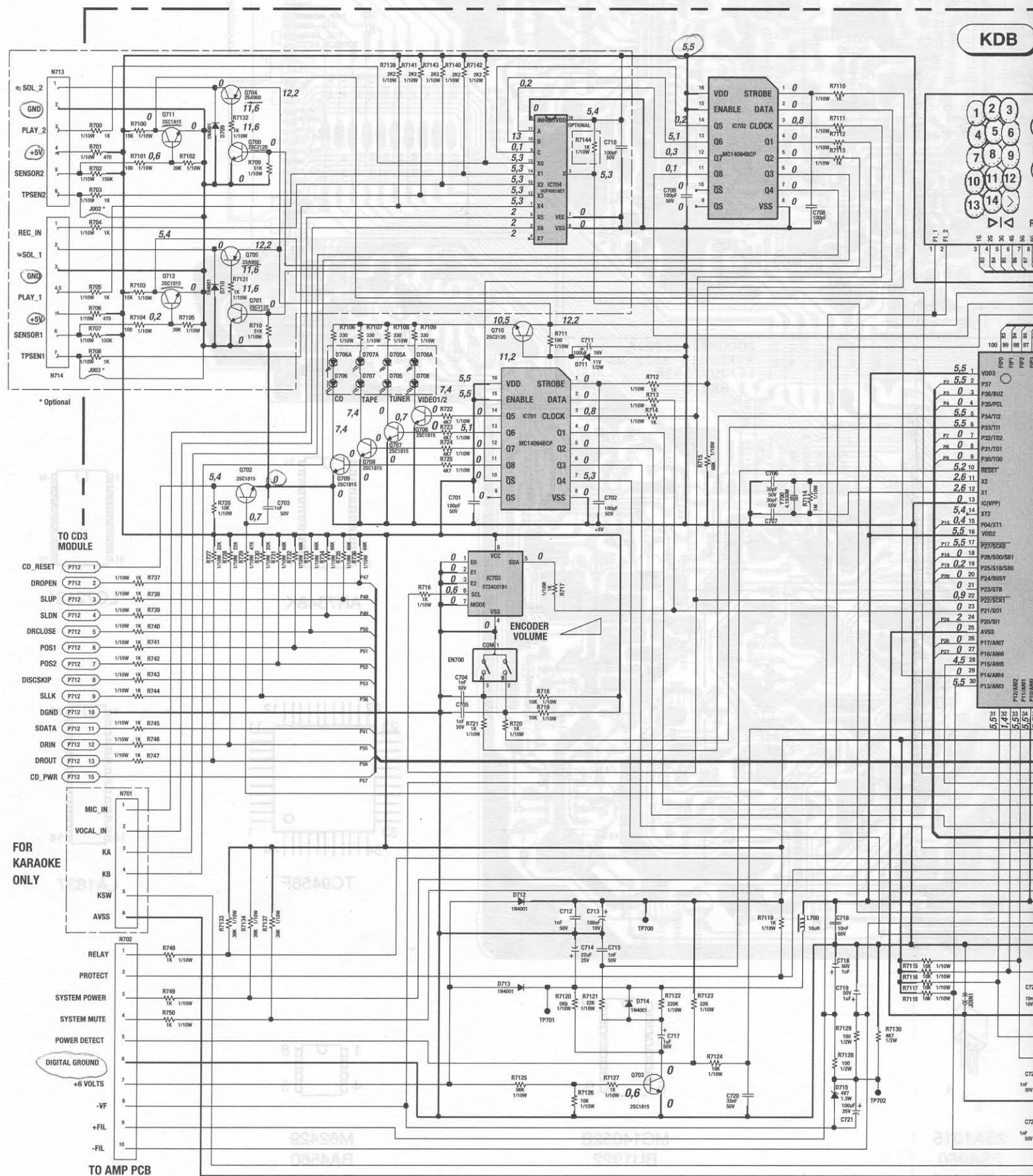


- BU1922

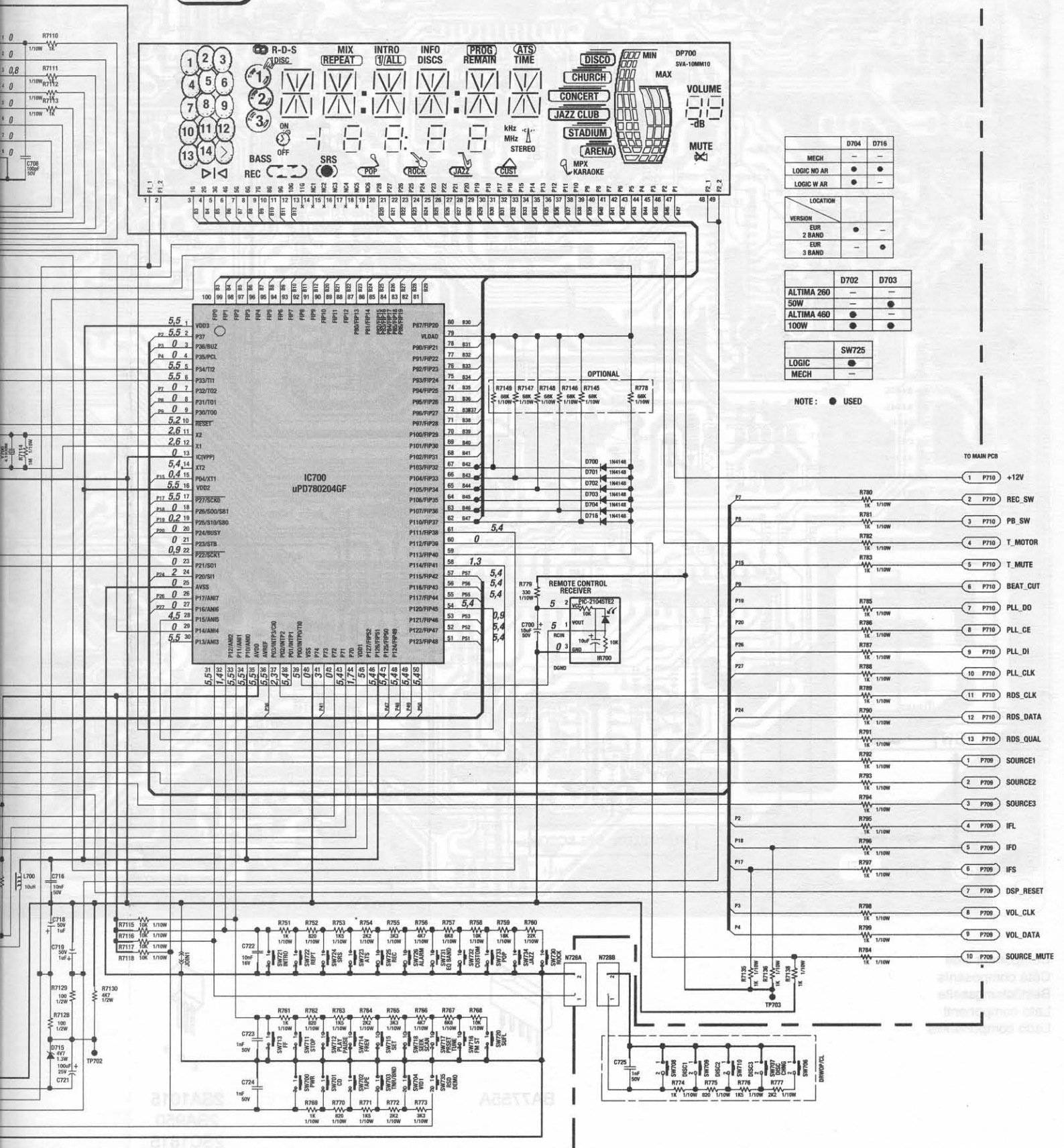


- BA4560
- BA4552

CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL / ESQUEMA MANDOS / INDICADOR



KDB



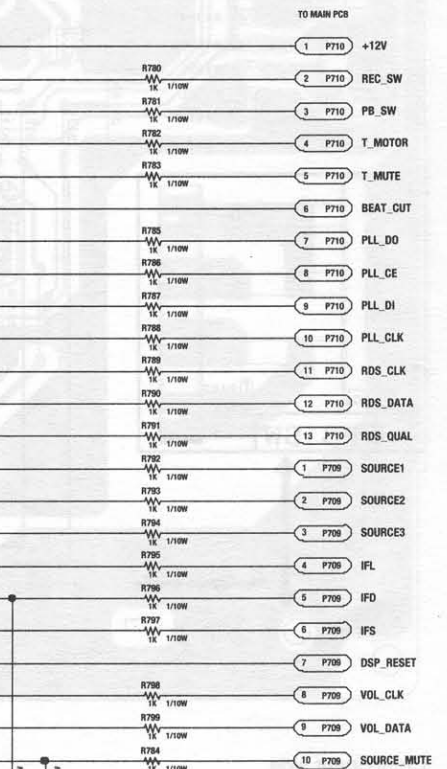
	D704	D716
MECH	—	—
LOGIC NO AR	•	•
LOGIC W AR	•	•

LOCATION	
VERSION	
EUR 2 BAND	•
EUR 3 BAND	•

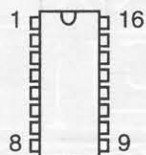
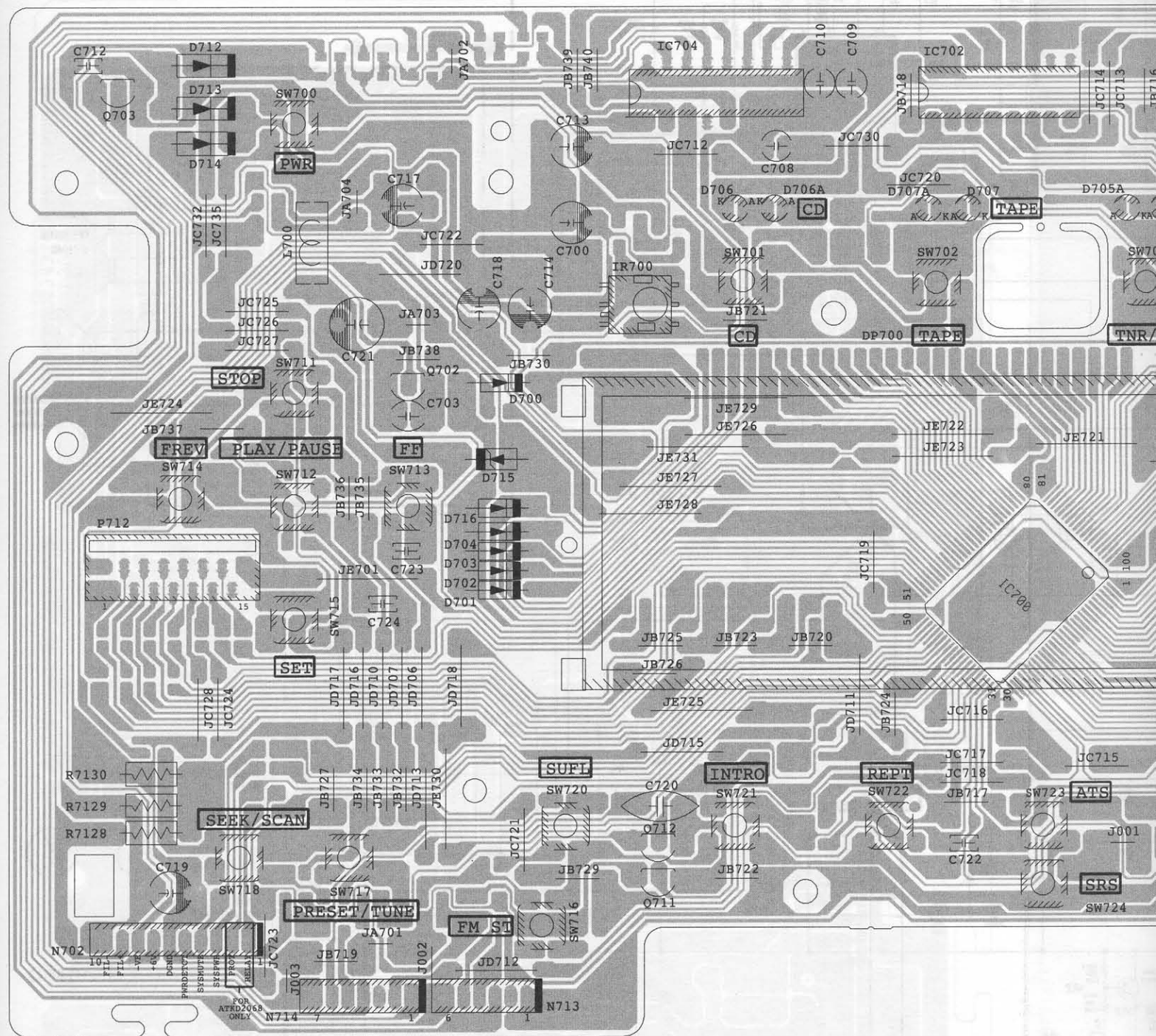
	D702	D703
ALTIMA 260	—	—
50W	—	—
ALTIMA 460	•	•
100W	•	•

	SW725
LOGIC	•
MECH	—

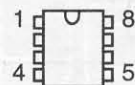
NOTE: • USED



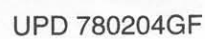
Controls / display P.C.B.
 Platine commandes / afficheurs
 Ltpl. Bedienteil / Anzeige
 Piastra comandi / indicatori
 Platina de mandos / indicadores



MC14094BCP



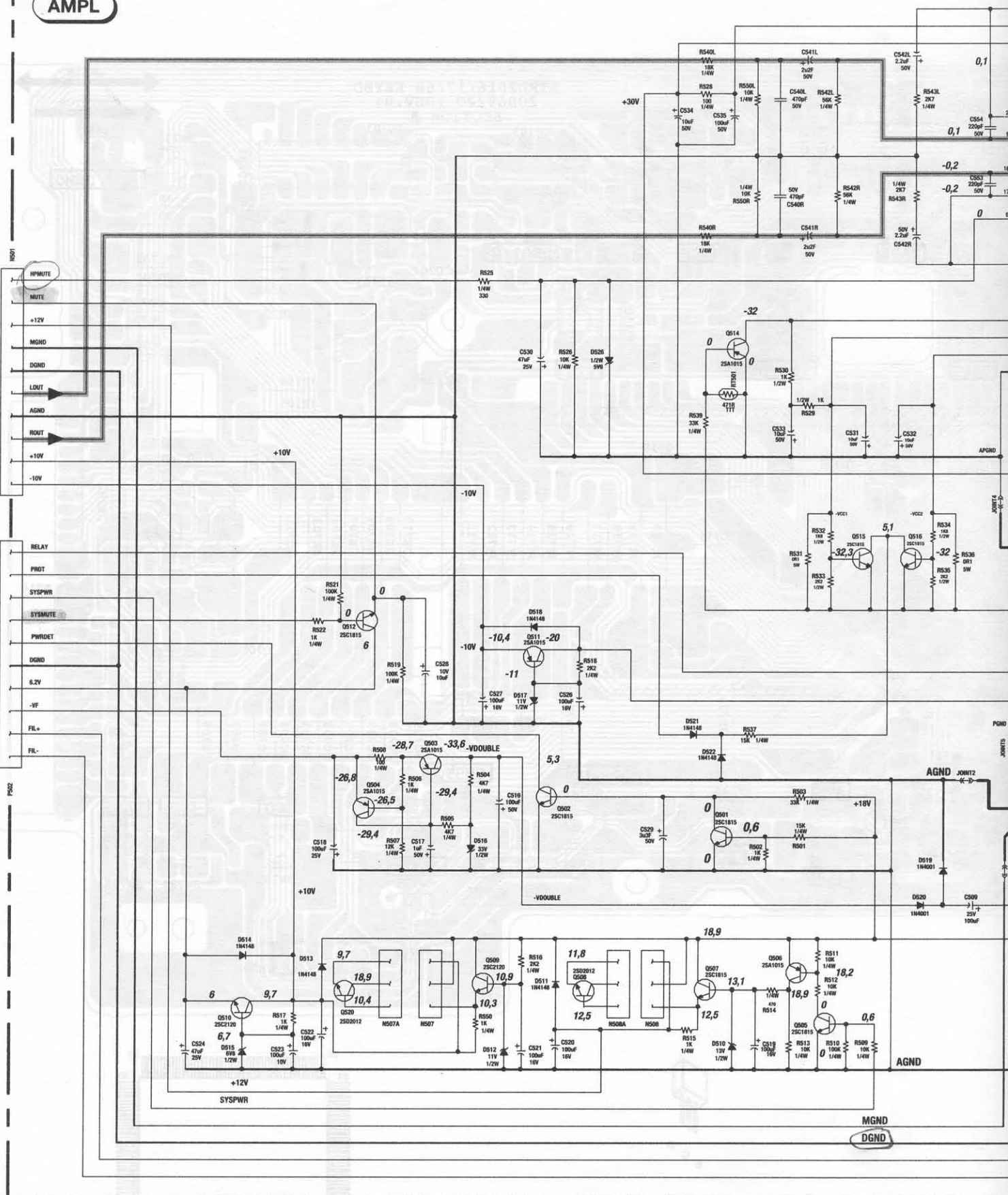
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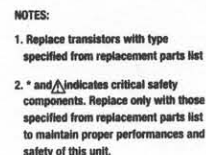


AMPL

TO
MAIN
BOARD

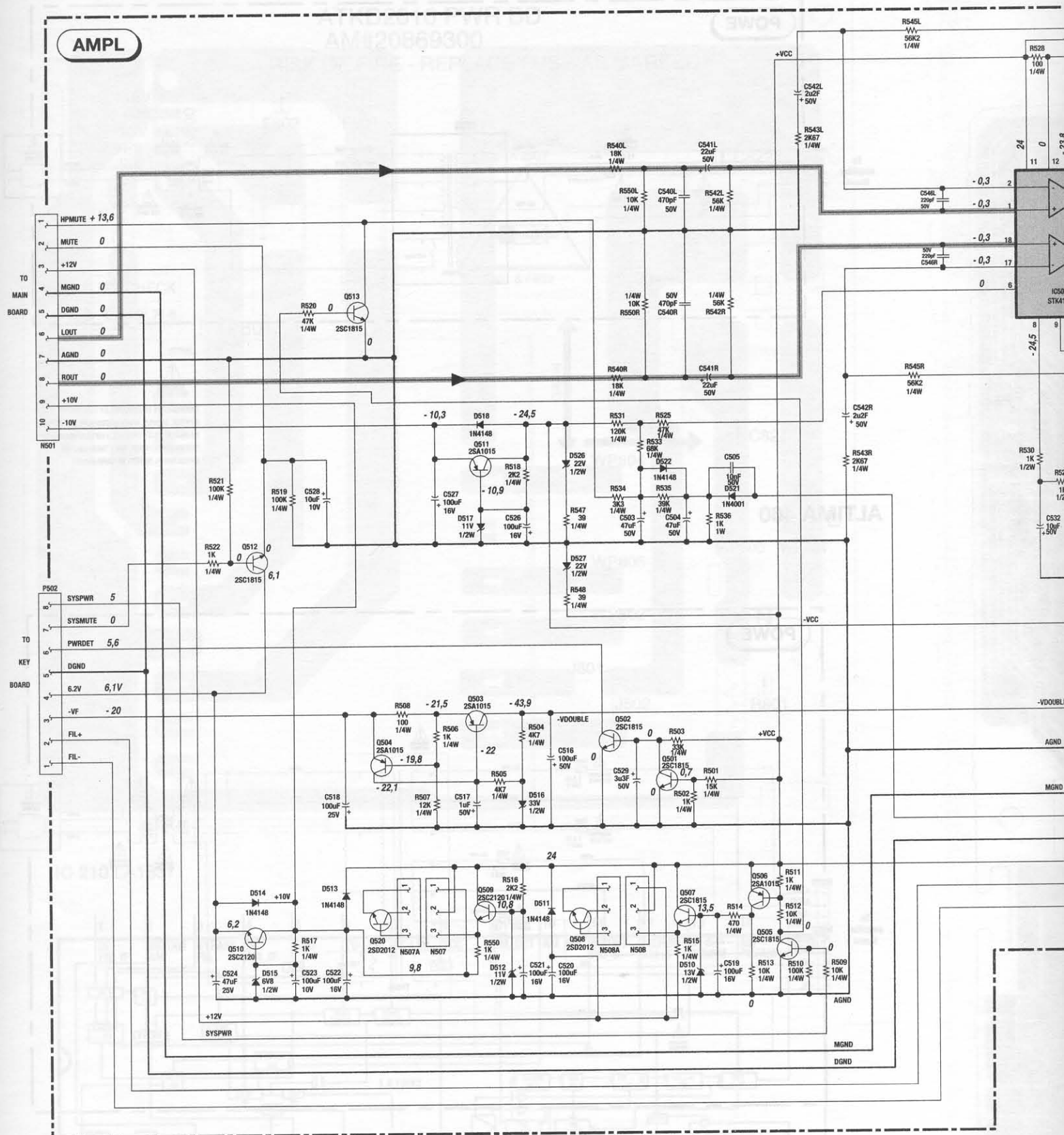
TO
KEY
BOARD

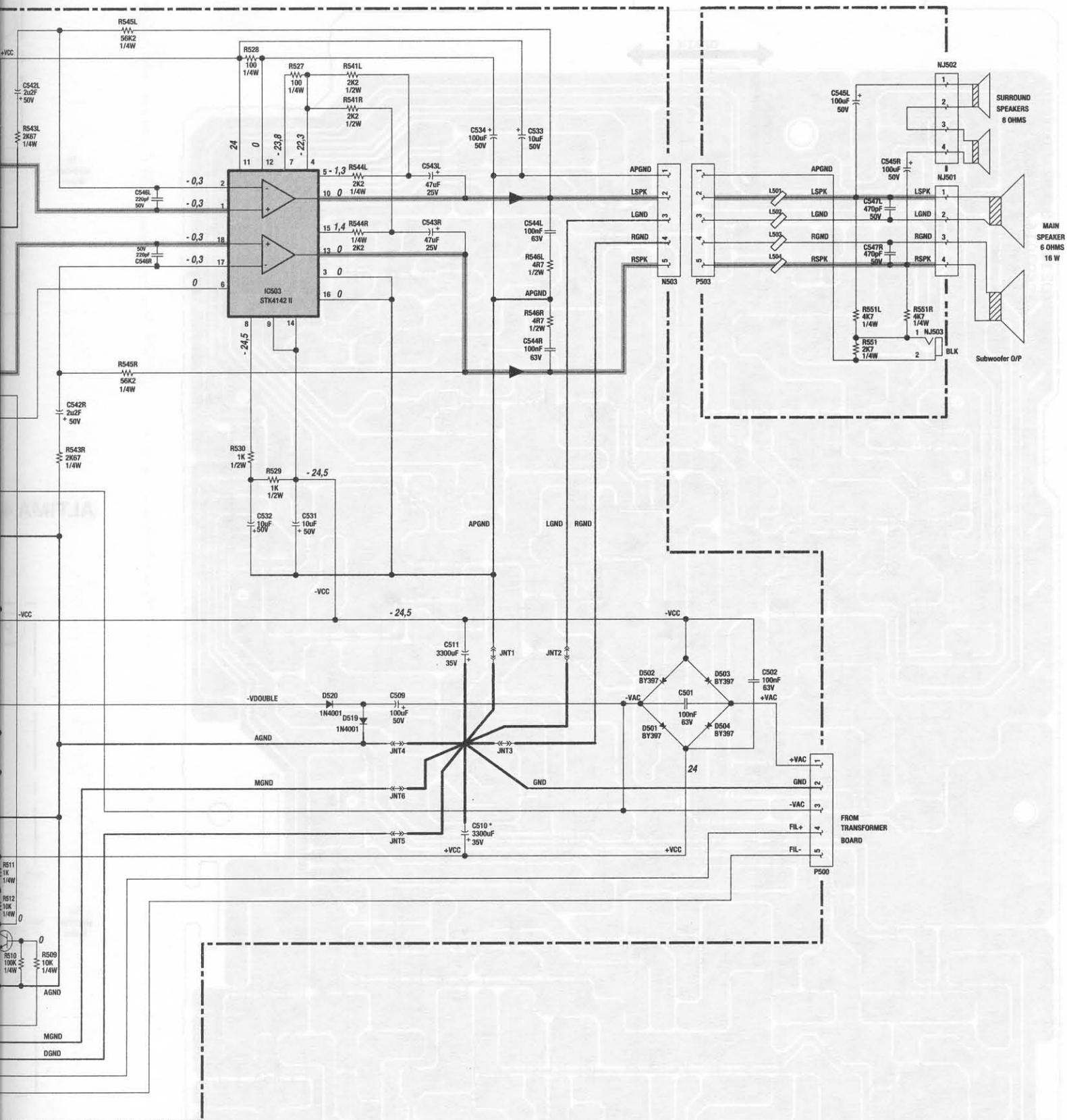




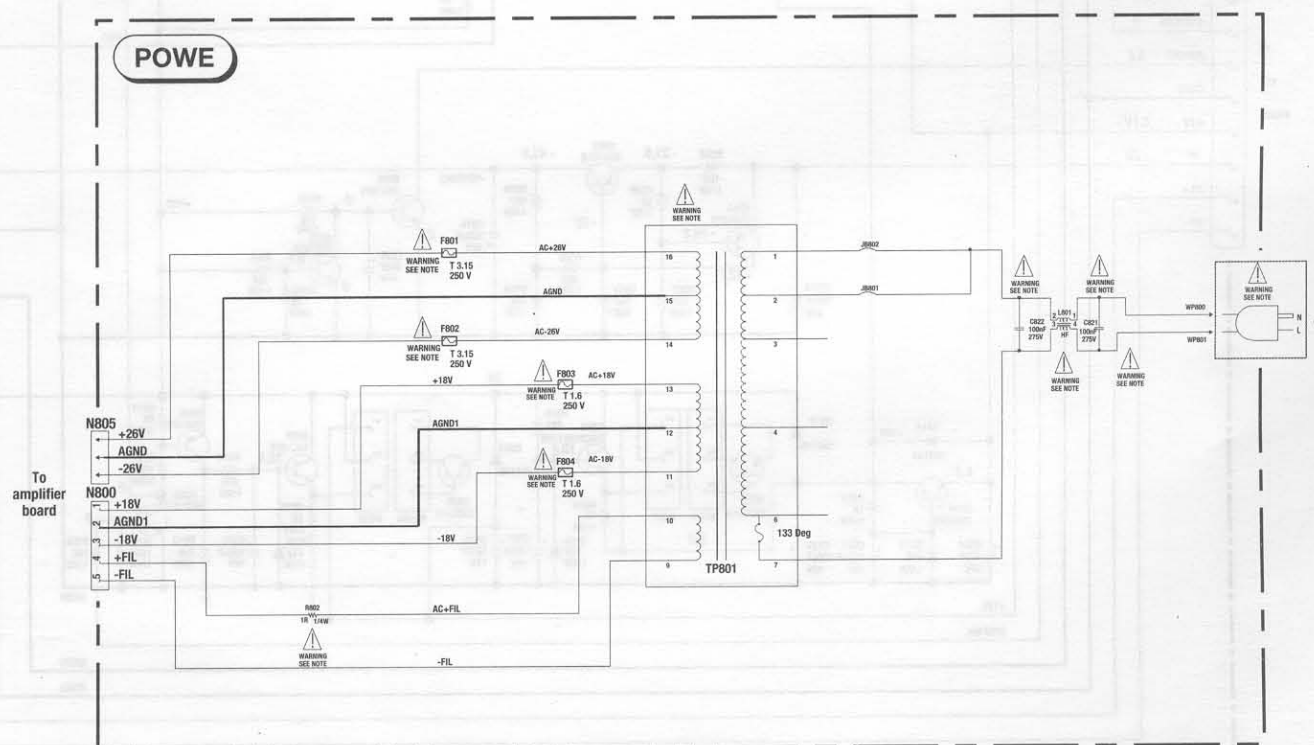
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER

(ALTIMA 260/ALTIMA 360)

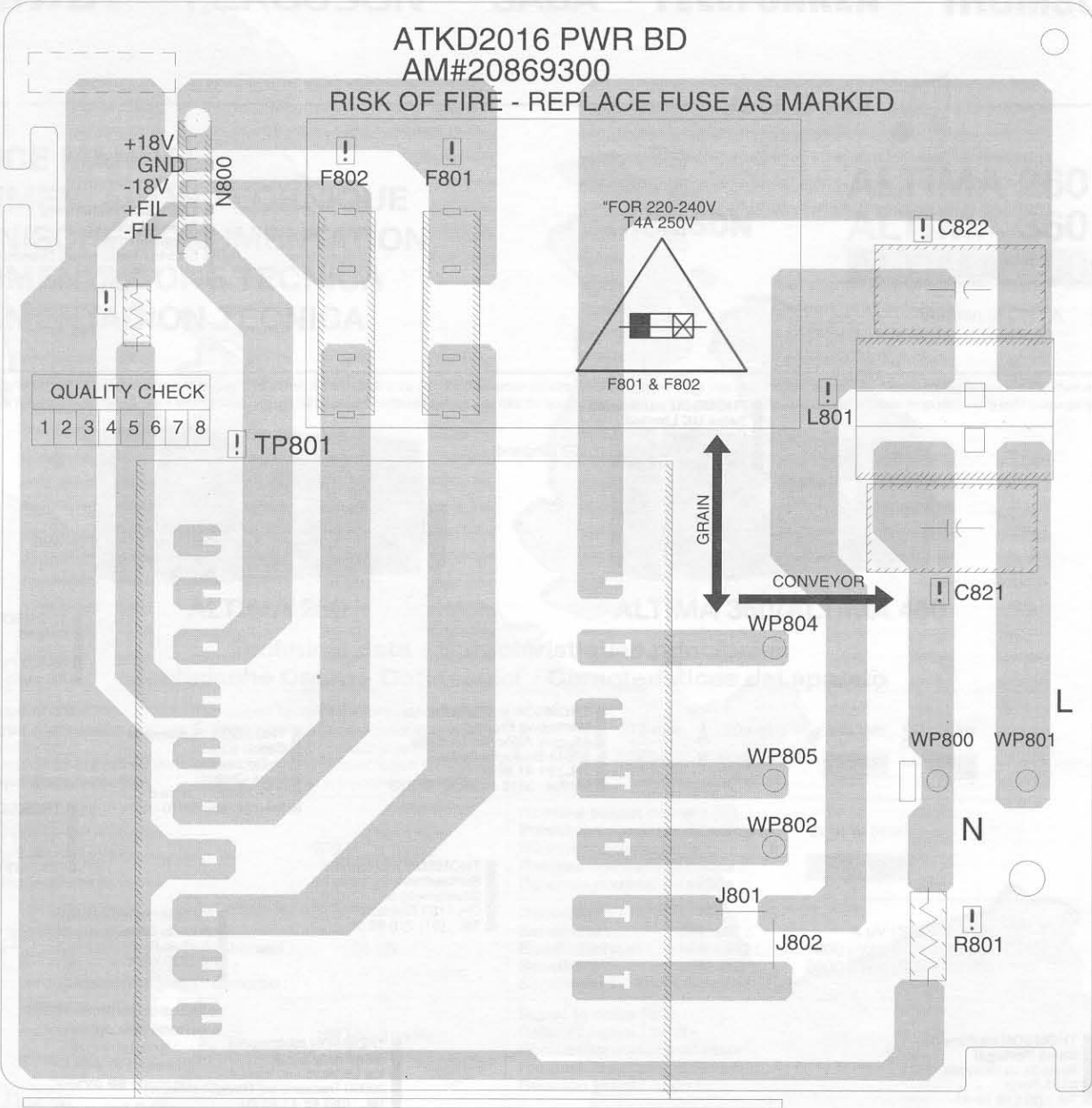




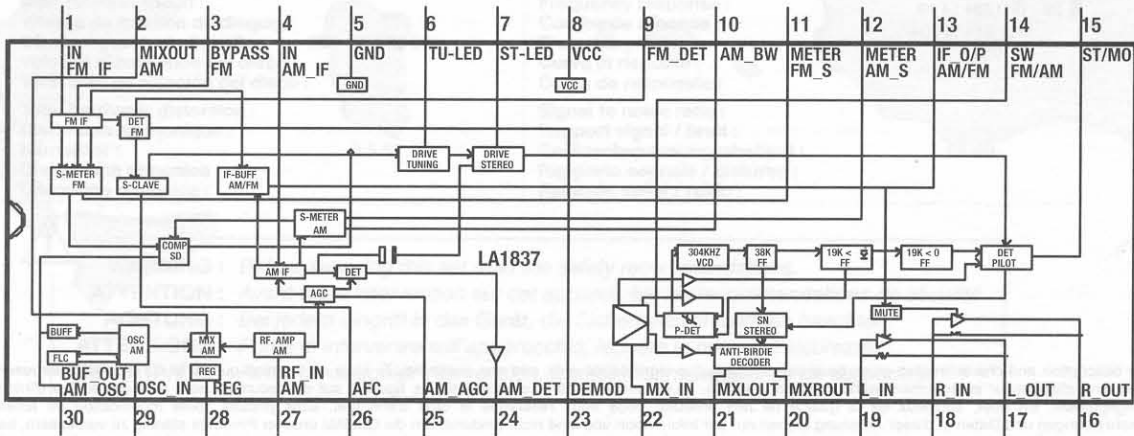
ALTIMA 260/ALTIMA 360



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



IC 210 LA1837



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