



ALTIMA 260 ALTIMA 360 ALTIMA 460

THOMSON

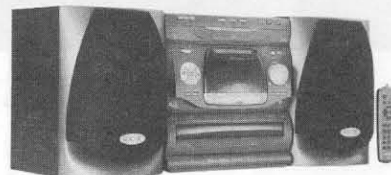
Version (PC*) : A

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.

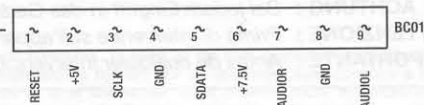
IMPORTANTE :

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

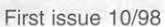
**DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL
- SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE -
ESQUEMA DEL TRATAMIENTO DIGITAL**

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

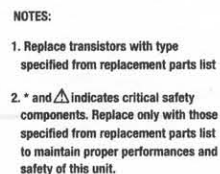


(AUDIO PART)



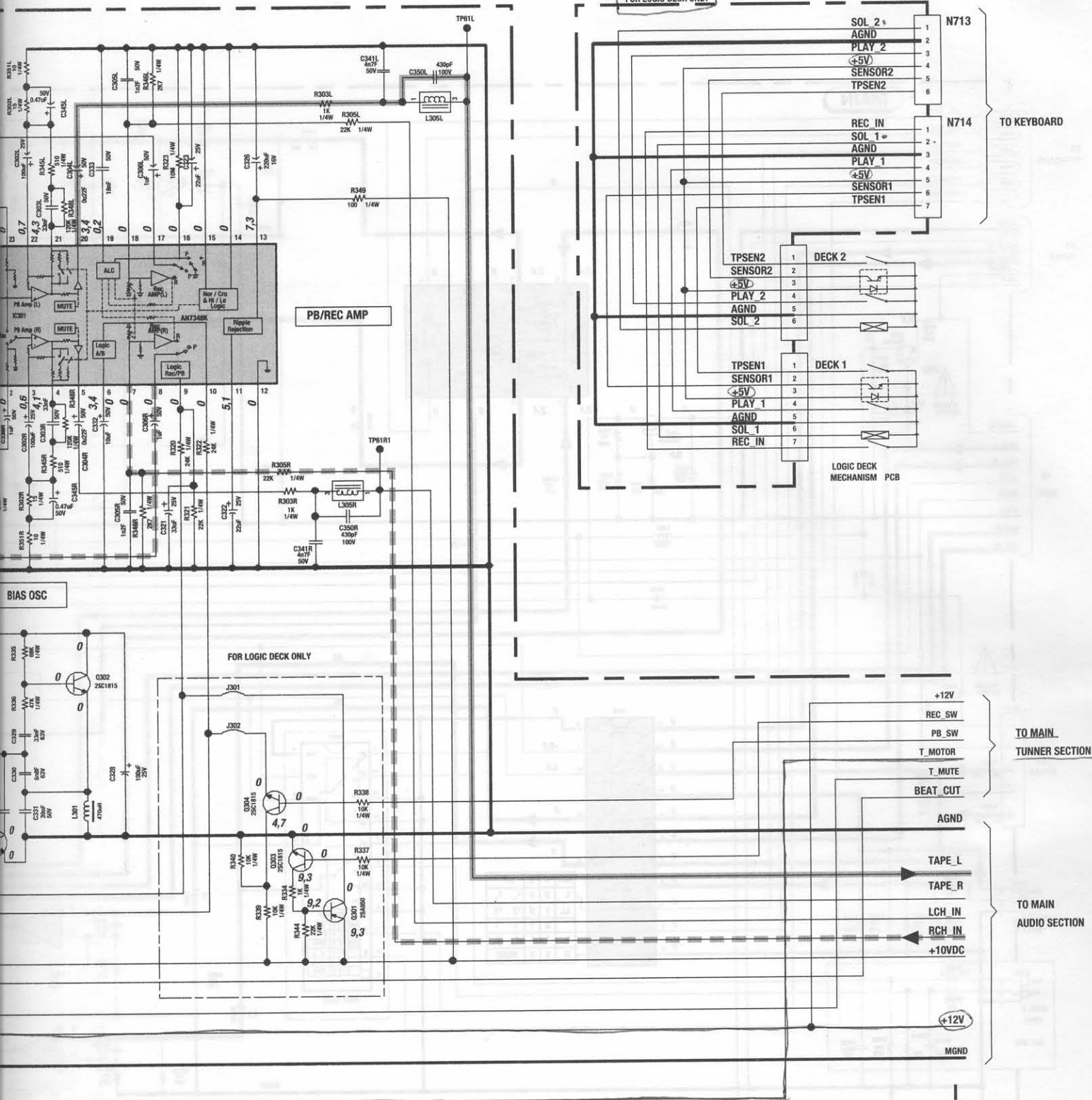


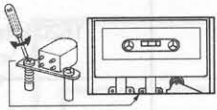
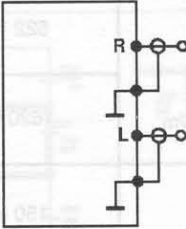
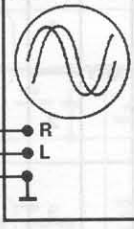
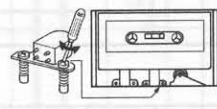
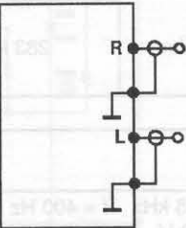
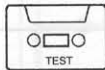
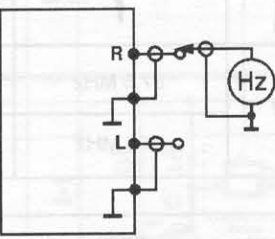
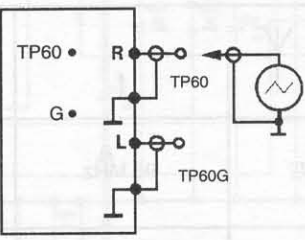
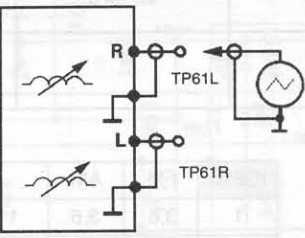
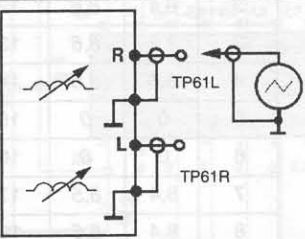
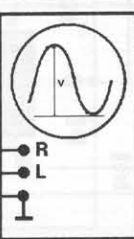
MAIN SCHEM (TAPE PART)



OPERATION	MODE	P	F
TAPE 2	PB		
TAPE 1	PB		
	REC		

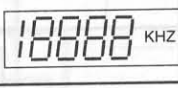
NDPLATTE SCHALTBIKD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL

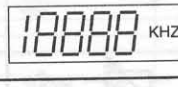


ADJUSTMENTS	REGLAGES	EINSTELLUNGEN	REGOLAZIONE	AJUSTES
1 Tape tension Tension de bande Bandzug Tensione del nastro Tensión de la cinta	 DYNAMOMETER			 40 g / cm < M < 60 g / cm << <<<>>> >>>>>> 80 g / cm < M < 150 g / cm
2 Azimuth adjustment Réglage d'azimut Tonkopfeinstellung Regolazione azimut Ajuste 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

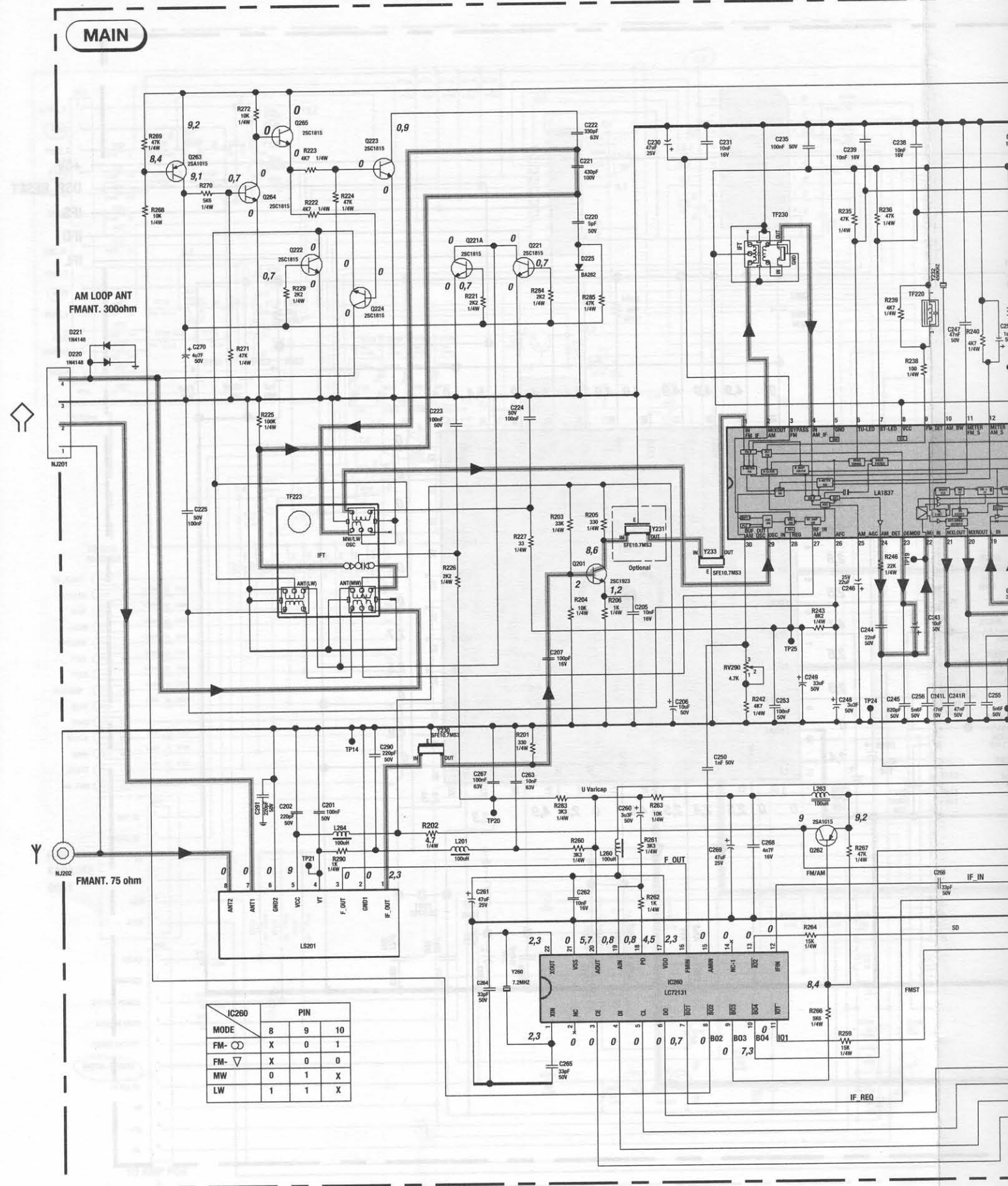
AM alignment						
		 	f		 	 
MW	1		522 kHz	522 kHz		TP20 $V = 1,5\text{ V} \pm 0,5\text{V}$
	2	$V_e > 1000\text{ }\mu\text{V/m}$	1620 kHz	1620 kHz		TP20 $V = 7,2\text{ V} \pm 0,5\text{V}$
LW	3		150 kHz	150 kHz		TP20 $V = 1,2\text{ V} \pm 0,4\text{V}$
	4	$V_e > 2500\text{ }\mu\text{V/m}$	283 kHz	283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

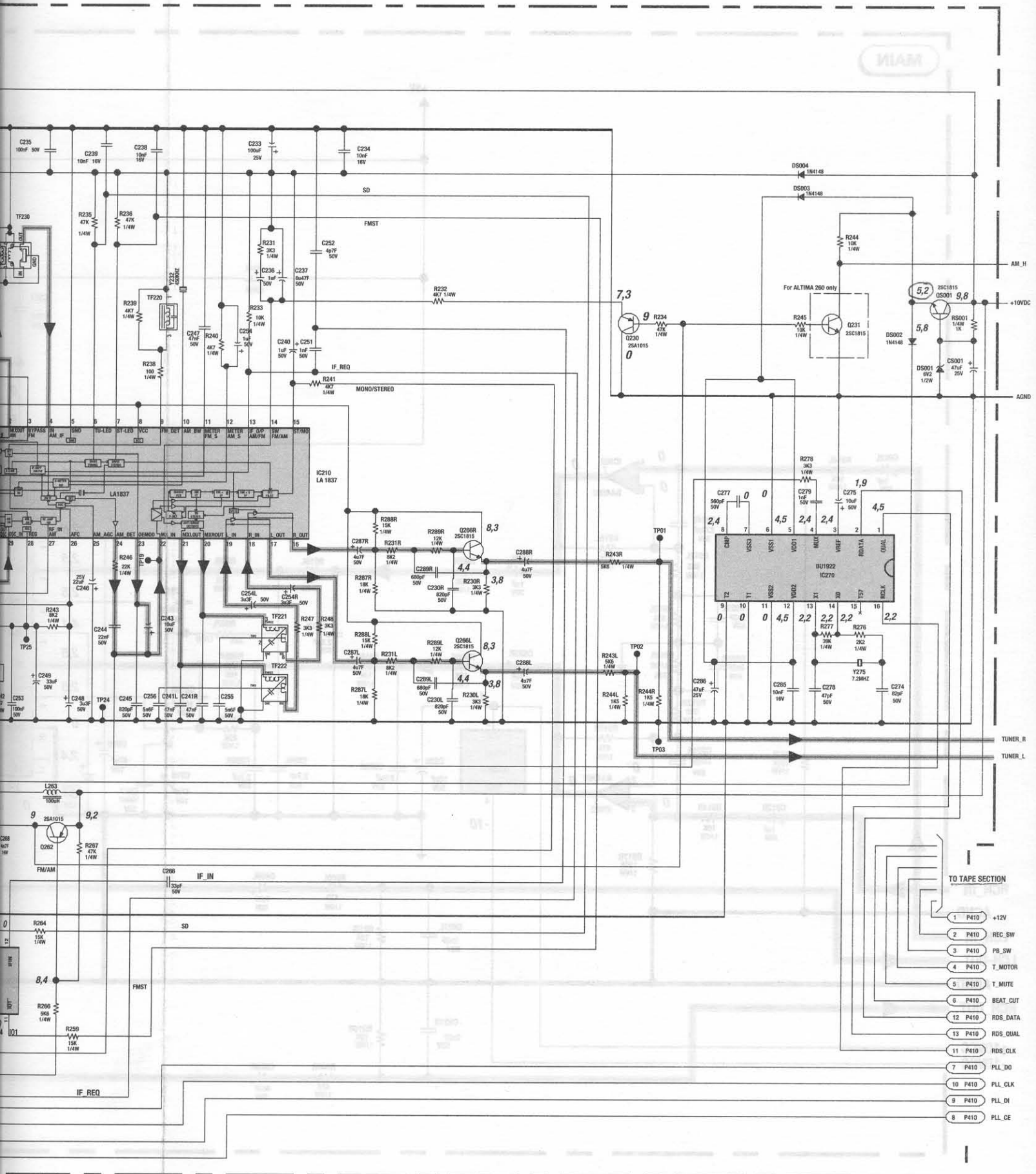
FM alignment						
		$\Delta f = 22,5\text{ kHz}$ $f = 400\text{ Hz}$  	f		 	 
FM	1	 $10\text{ }\mu\text{V}$	87,5 MHz	87,5 MHz		$V = 2\text{ V} \pm 0,5\text{V}$
			108 MHz	108 MHz		$V = 7\text{ V} \pm 0,6\text{V}$

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

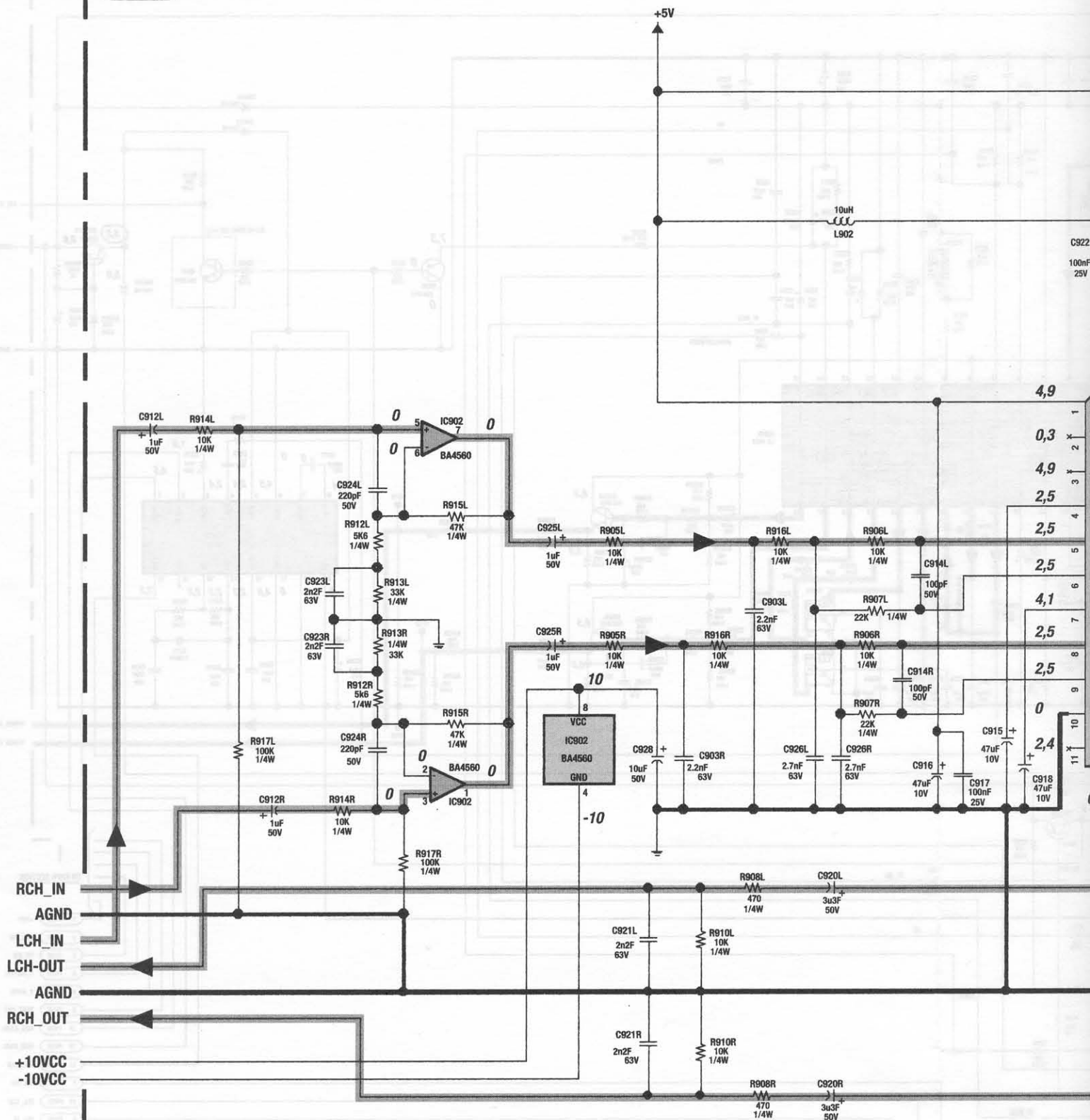
MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD (TUNER PART)

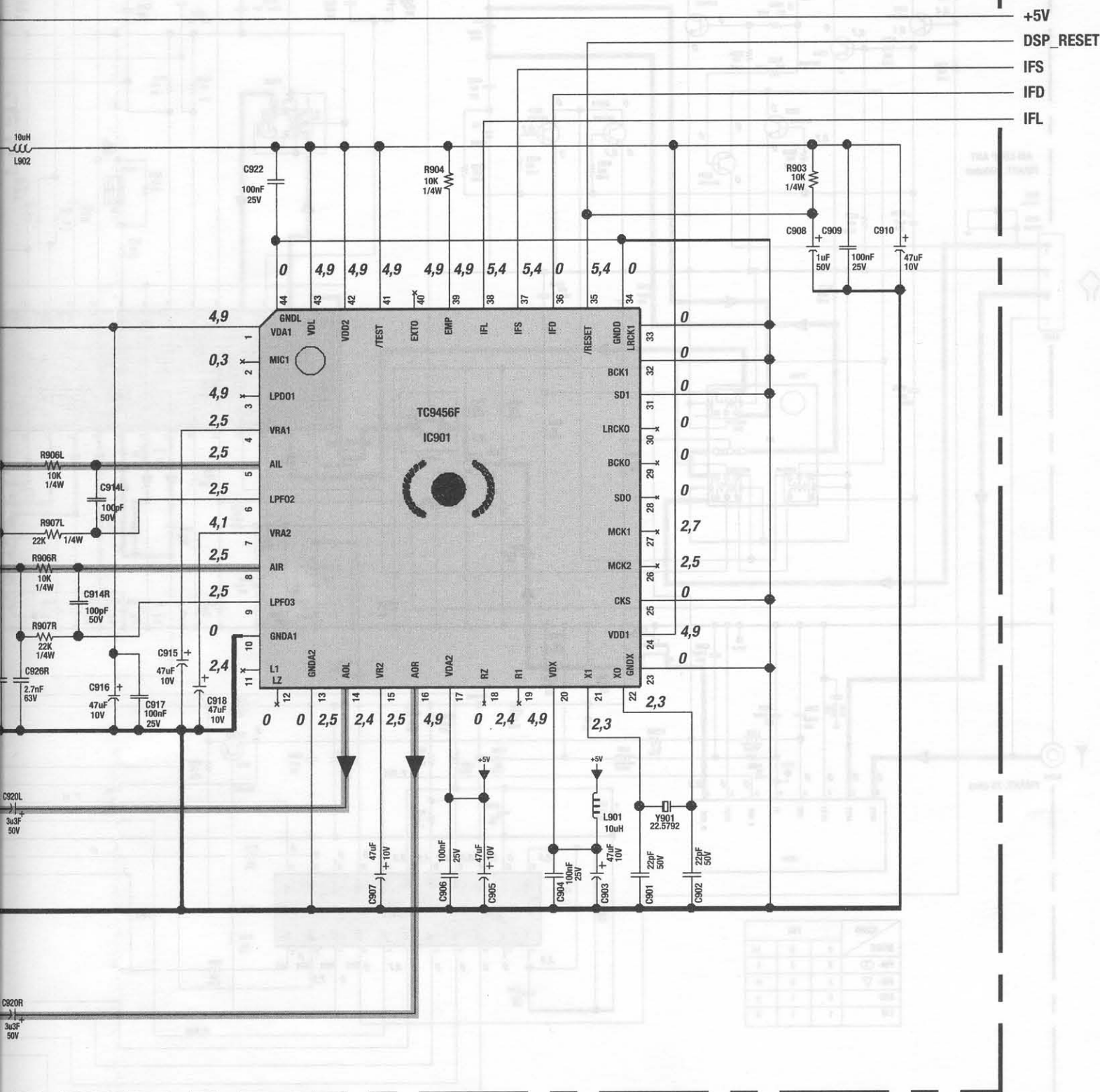




(DIGITAL SOUND PROCESSOR PART)

MAIN



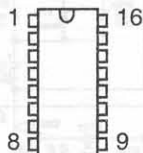




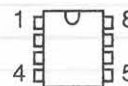
Main P.C.B.
Platine principale



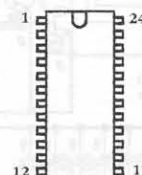
2SA1015
2SA950
2SC1815
2SC2120
2SC2236



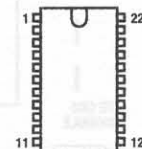
MC14052B
BU1922



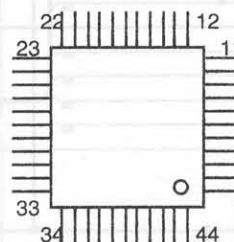
M62429
BA4560
BA4552



AN7348K



LC72131

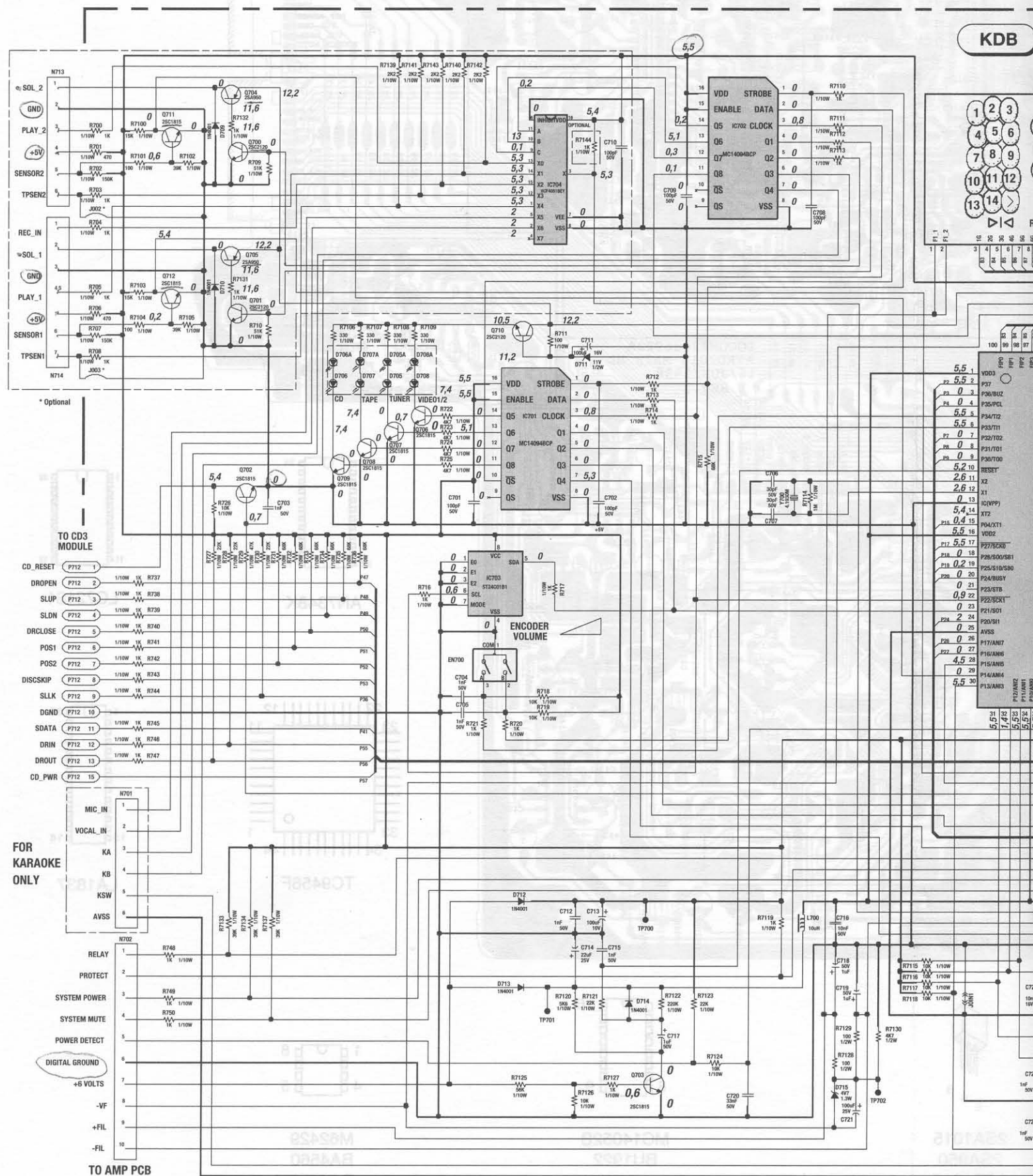


TC9456F

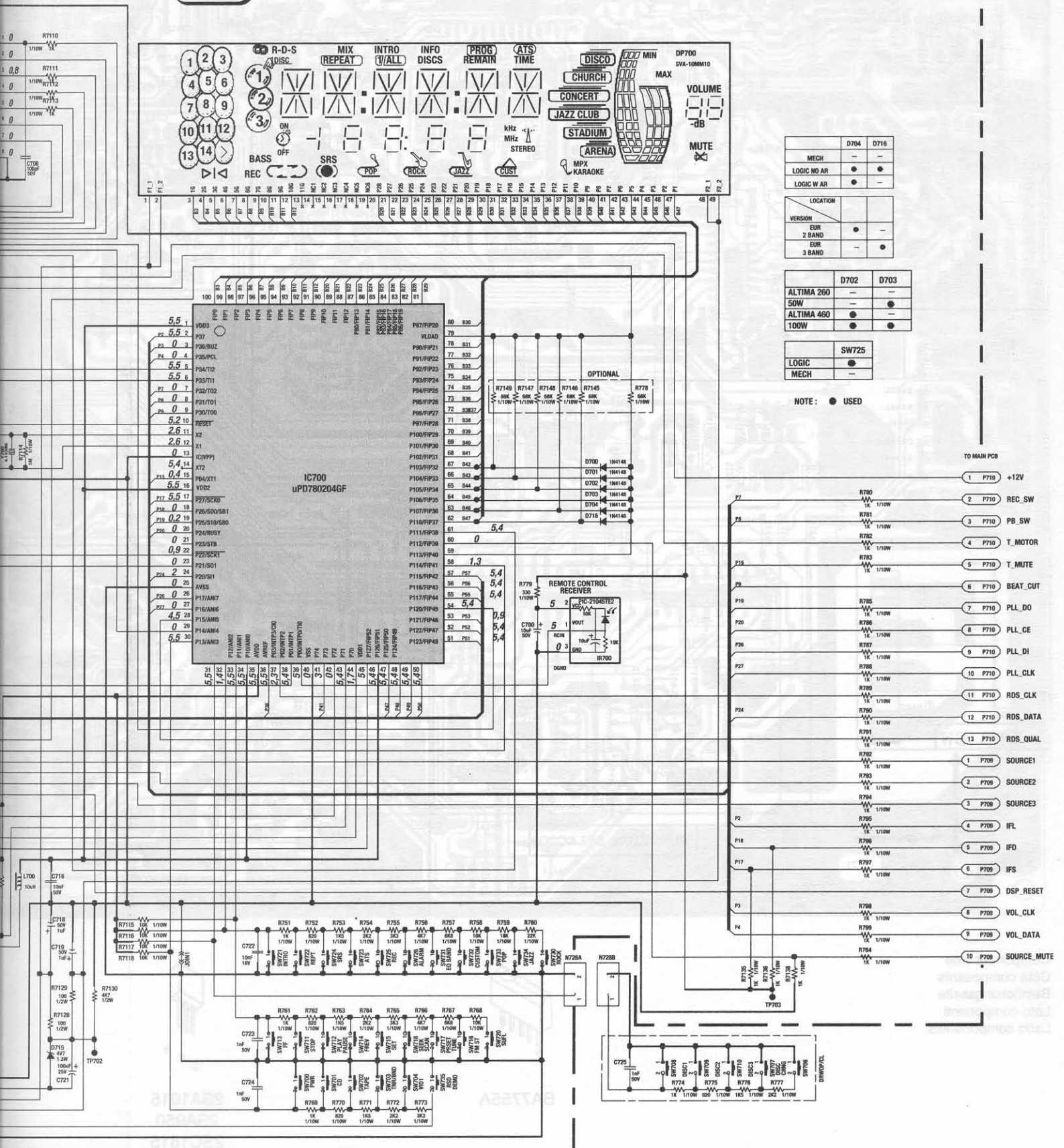


LA1837

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



KDB



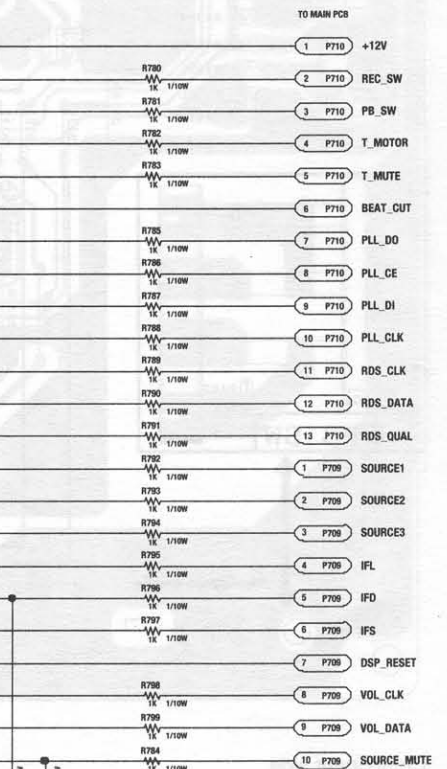
	D704	D716
MECH	—	—
LOGIC NO AR	•	•
LOGIC W AR	•	•

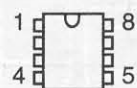
LOCATION	
VERSION	
EUR 2 BAND	•
EUR 3 BAND	•

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

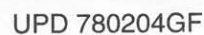
	SW725
LOGIC	•
MECH	—

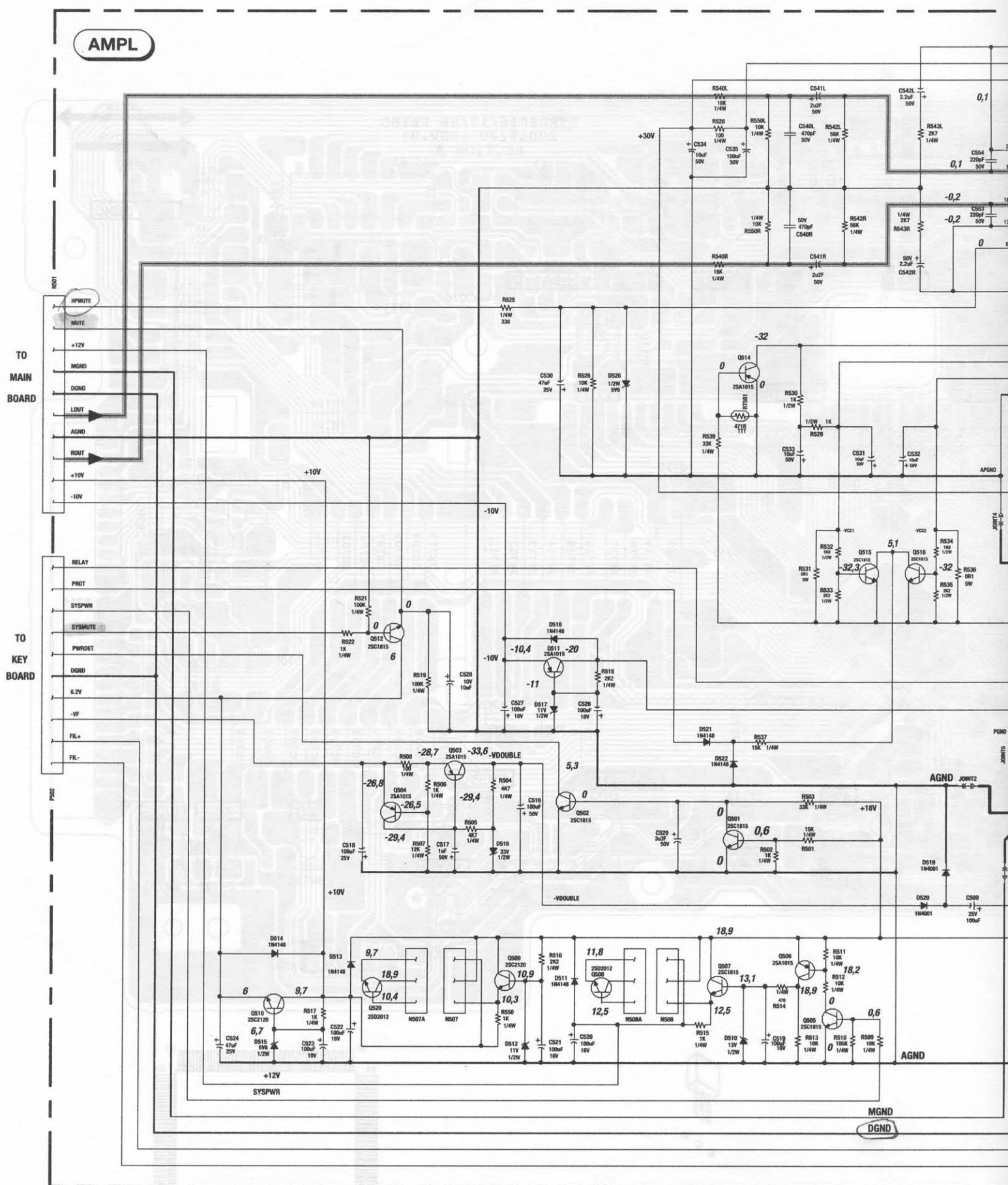
NOTE: • USED





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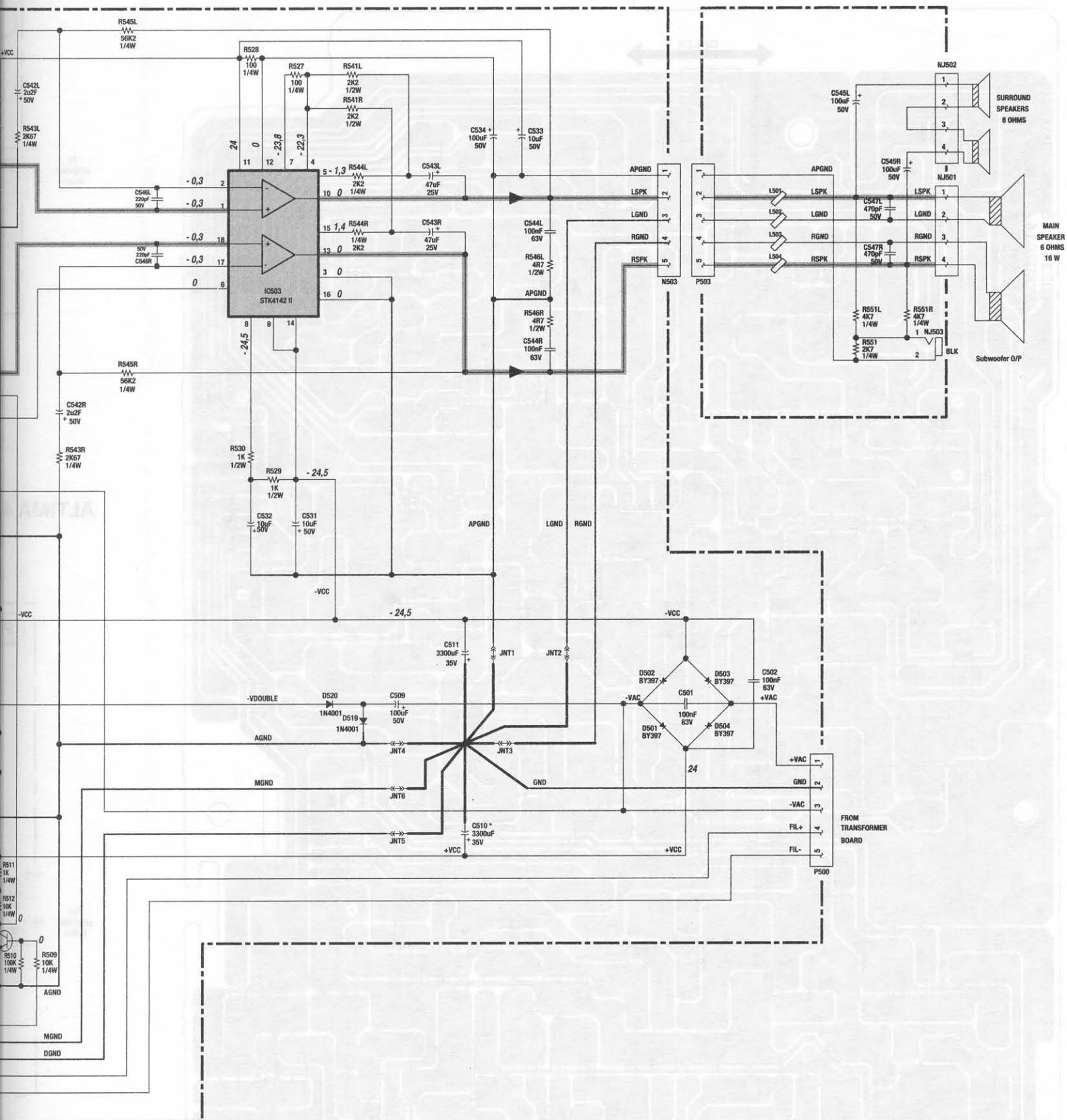




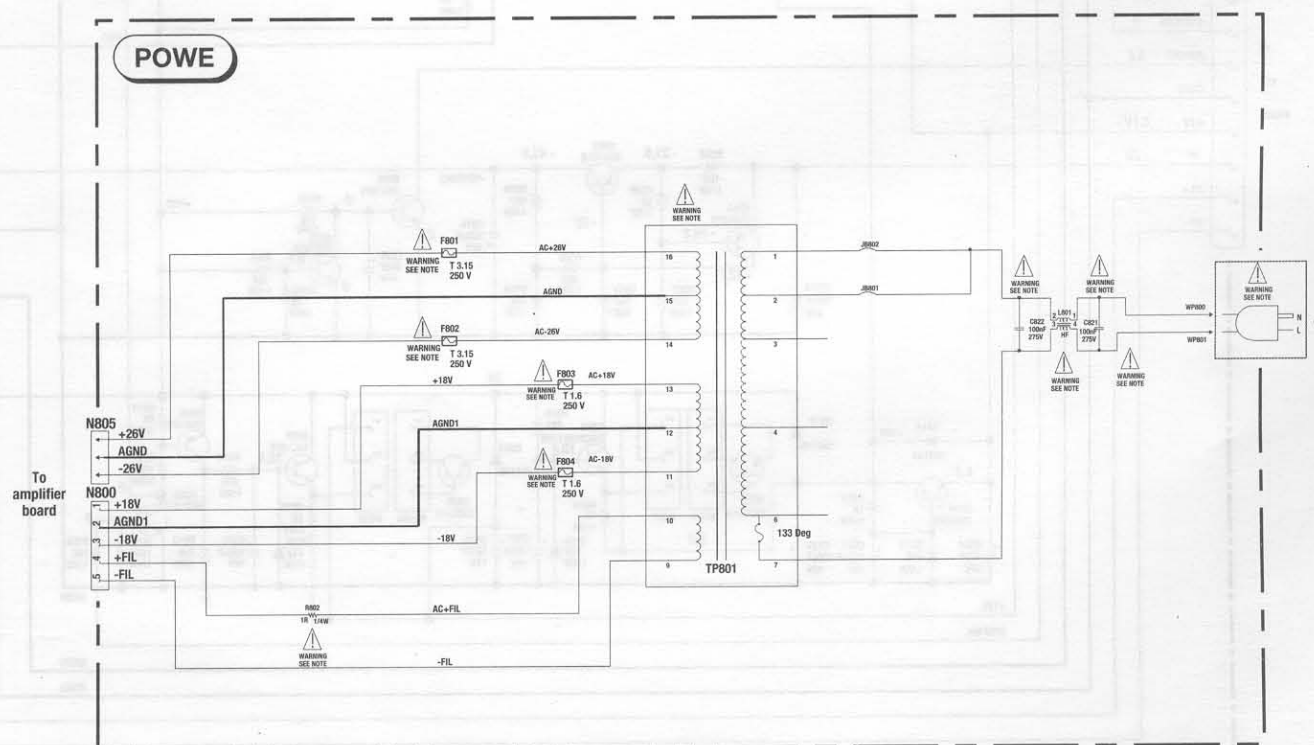
(ALTIMA 260/ALTIMA 360)



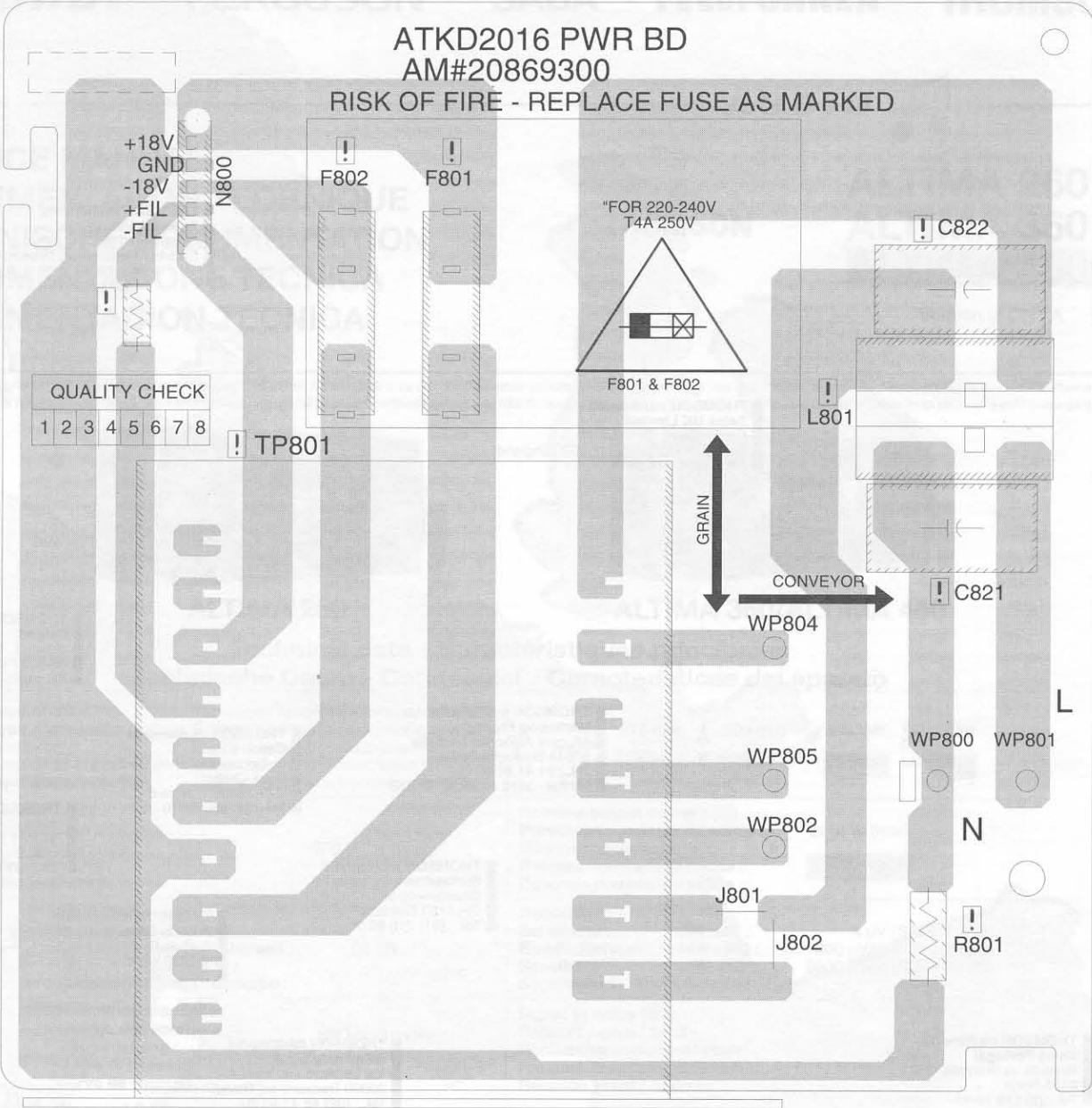
HALTBILD ENDVERSTÄRKER - SCHEMA AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR



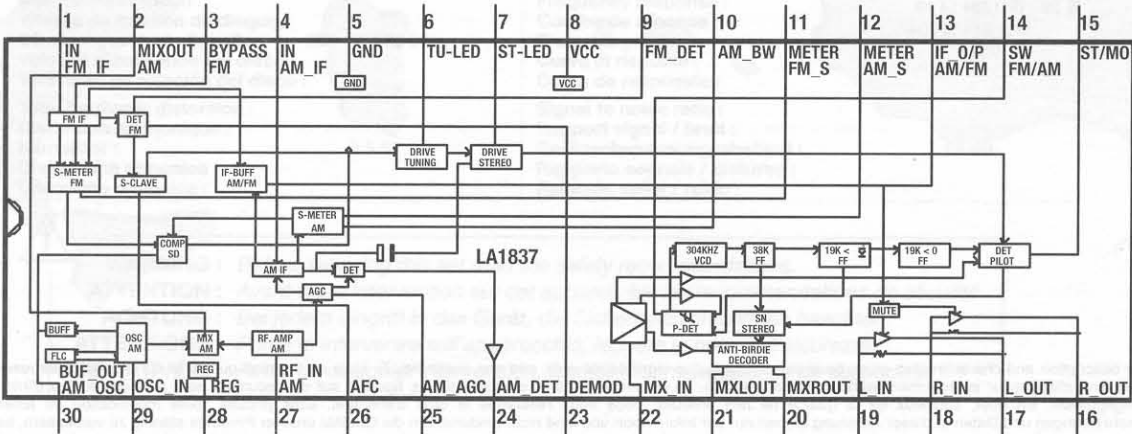
ALTIMA 260/ALTIMA 360



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



IC 210 LA1837



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