



FERGUSON

THOMSON TECHNOLOGY

TV

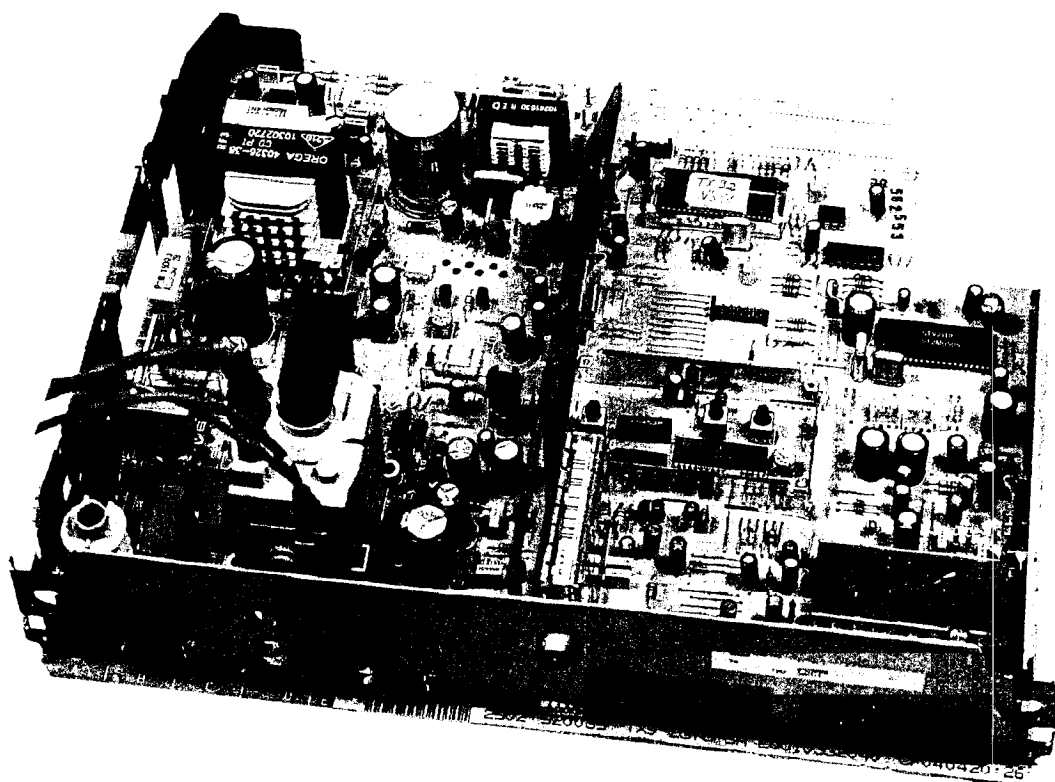


SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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TX92

≡ Goodmans.
GP-2880.



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.

 Indicates specially selected or critical safety components and identical components should be used for there replacement. This is necessary in order to maintain the operational safety of the receiver.

Le remplacement des éléments de sécurité (repérés avec le symbole ) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ) gekennzeichnet) durch nicht normengerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità" del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER: UHF input level: 1 mV, test bar pattern:
- PAL, 1 standard, 100% white.

Scart input level: 1.00 Vpp, test bar pattern.

Programme PR 01.

Customer controls: Contrast, brightness and colour set at mid point and sound at minimum.

All DC voltages are measured with a digital meter between ground and the reference point.

RECEPTEUR: En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritelvision, niveau d'entrée 1 Vcc, mire de barres.

Couleur, contraste, lumière à mi-course, son minimum.

Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER: Bei UHF Eingangsspegel 1 mV, Farbbalken:
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse: Eingangsspegel 1 Vss, Farbbalken:

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.

Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE: In UHF, livello d'entrata 1 mV, monoscopia per barre:
- PAL, norma G, bianco 100%.

Per la presa SCART, livello d'entrata 1 Vcc, monoscopia per barre:

Cokore, Contrasto, Luce a metà corsa, Suono minimo.

Programma designato PR 01.

Tensioni continue rilevate rispetto alla massa con un voltmetro numerico.

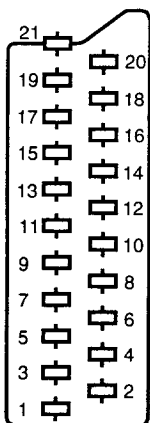
RECEPTOR: En UHF, nivel de entrada 1 mV, mira de barras:
- PAL, norma G, blanco 100%.

Por la toma Peritelvision, nivel de entrada 1 V pp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido mínimo.

Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltmetro digital



NOTE: **(MAIN)** ... etc. identifies each pcb module.

NOTE: **(MAIN)** ... etc. repères des platines constituant l'appareil.

HINWEIS: **(MAIN)** ... usw.
Kennzeichnungen der Platinen, aus denen das Gerät zusammengesetzt ist.

NOTA: **(MAIN)** ... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

NOTA: **(MAIN)** ... etc. marcas de las placas que constituyen el aparato.

	ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1 	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2 	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3 	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4 	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5 	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6 	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7 	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8 	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9 	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10 NC					
11 	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12 NC					
13 	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14 NC					
15 	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16 	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17 	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18 	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19 	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20 	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21 	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	ARMATURA DELLA SPINA	BLINDAJE DEL ENCHUFE

 : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA

 : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA

ABBREVIATIONS - ABREVIATIONS - ABKÜRZUNGEN - ABBREVIAZIONI - ABREVIACIONES

● AF	AUDIO FREQUENCY FREQUENCE AUDIO
● BCL	BEAM CURRENT INFORMATION INFORMATION COURANT DE FAISCEAU
● BU	TUNER UHF BAND CONTROL OUTPUT SELECTION DE LA BANDE UHF DU TUNER
● BI	TUNER BAND 1 CONTROL OUTPUT SELECTION DE LA BANDE I
● BIII	TUNER BAND 3 CONTROL OUTPUT SELECTION DE LA BANDE 3
● CVBS	COMPOSITE VIDEO / LUMINANCE SIGNAL SIGNAL VIDEO COMPOSITE
● DEGAUSS	DEGAUSS SIGNAL SIGNAL DE COMMANDE DE DEMAGNETISATION
● EWDRIVE	DRIVE SIGNAL FOR EAST-WEST CORRECTION SIGNAL DE COMMANDE CORRECTION EST-OUEST
● EWSENSE	FEED BACK SIGNAL OF EAST-WEST CORRECTION SIGNAL DE CONTRE-REACTION EST-OUEST
● FORMAT	COMMAND USED TO CHANGE THE PICTURE FORMAT COMMANDE UTILISEE POUR CHANGER LE FORMAT
● FB	FAST BLANKING COMMUTATION RAPIDE
● HDRV	HORIZONTAL DEFLECTION SIGNAL SIGNAL DE COMMANDE DE BALAYAGE HORIZONTAL
● + H	POSITION FLY BACK PULSE IMPULSION DE RETOUR LIGNE DE REFERENCE
● HEATER	HEATER VOLTAGE TENSION DE FILAMENT
● I-CUT	CUTOFF CURRENT COURANT DE CUTOFF
● IR	DATA FROM INFRARED RECEIVER DONNEES ISSUES DU RECEPTEUR INFRAROUGE
● S	VERTICAL S - CORRECTION CORRECTION S VERTICALE
● SAFETY	SIGNAL FOR DETECT. OF ERRORS ON THE DEFLEC.PART SIGNAL DE DETECT. D'ERREURS PARTIE DEFLECTION
● SCL	SERIAL CLOCK SIGNAL HORLOGE SERIE
● SDA	SERIAL DATA DONNEE SERIE
● SIF	SOUND IF FI SON
● VTUNE	TUNING VOLTAGE TENSION DU TUNER
● VSYNC	VERTICAL DEFLECTION SIGNAL SIGNAL DE COMMANDE BALAYAGE VERTICAL

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TECHNICAL DATA AND COMPOSITION OF RECEIVERS

- Type of set : Colour receiver
- Colour decoding system : - PAL / SECAM / NTSC

Selection of 60 programmes and 1 audiovisual by infra red RCU
On Screen Display (OSD) :

- for programming and channel identification
- for Customer level settings

COMMERCIAL REFERENCES	H X W x D (mm) Weight (kg)	Cons. (W/h) Sound (W RMS/Ω)	TRC - / °	Standard Decoding.	CHAPTER		SUB ASSEMBLIES						Parts Lists
					Adjustments Service mode	Description ==> Block Diagram Schema: P.C.B.	Main Board	Video Amplifier	VHF / UHF Tuner	Teletext Part	Front Connector Module		
GD2580B	502x762x448 30,5	90 WH 2 x 5 / 8	25" 110	I PAL	3 - 6	Description ==> Block Diagram Schema: P.C.B.	MAIN 12 - 16 7 - 11	CRT 21 27	MTM 4045 28 - 29	VTX 13 7 - 11	FCB 2022 29 - 30 31	- - -	
GD2880B	548x778x475 35	90 WH 2 x 5 / 8	28" 110	I PAL	3 - 6	Description ==> Block Diagram Schema: P.C.B.	MAIN 12 - 16 7 - 11	CRT 21 27	MTM 4045 28 - 29	VTX 13 7 - 11	FCB 2022 29 - 30 31	- - -	
T59F	470x664x455 30	90 WH 2 x 5 / 8	25" 110	I PAL/SECAM/NTSC	3 - 6	Description ==> Block Diagram Schema: P.C.B.	MAIN 12 / 17 - 20 23 - 26	CRT 21 27	MTM 4045 28 - 29	VTX 17 23 - 26	KB 2052 -	- - -	
T59N	470x664x455 30	90 WH 2 x 5 / 8	25" 110	I PAL/SECAM/NTSC	3 - 6	Description ==> Block Diagram Schema: P.C.B.	MAIN 12 - 16 7 - 11	CRT 21 27	MTM 4045 28 - 29	VTX 13 7 - 11	KB2200 30 -	- - -	
T68N	514x724x483 35	90 WH 2 x 5 / 8	28" 110	I PAL/SECAM/NTSC	3 - 6	Description ==> Block Diagram Schema: P.C.B.	MAIN 12 - 16 7 - 11	CRT 21 27	MTM 4045 28 - 29	VTX 13 7 - 11	KB2200 30 -	- - -	

U Sys	PP 66	Contrast, brightness and volume to minimum	125V Tube 33" (43") (A79 ECU 13441)	JL52
U G2 / cutoff	SCREEN	AV (no signal, black screen)	130V - all tubes tous tubes	JL51
FOCUS	FOCUS	Test pattern (standard values)	CRT ID01: pins 9 / 12 / 15 highest output	Cutoff A51 ECU AXX EAS AXX ECU A79 ECU W56 EGV W66 EDX W76 EGC 150V 150V 160V 160V 160V 160V 160V
			Sharp picture	

SERVICE-MODE (GB)

It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Usteyim, Focus and Screen voltages.

1. Service Mode Access

- 1.1 With the RCU, switch the TV set into the "Standby" mode.
- 1.2 Switch "off" the TV set by mains supply switch (wait until LED is dark).
- 1.3 Whilst depressing the RCU "Blue (VT)" button, switch "On" the TV set using the mains supply switch.
- 1.4 Release and press once again the RCU "Blue (VT)" button, the following "Set-Up" menu should be displayed.

SET-UP	VIDEO	GEOM
TX92 WS11		Configuration

Important : The Service Mode cannot be entered if any equipment is connected to the Scart socket, i.e. pin 8 switching voltage present.

2. Function or Page Selection (GEOM)

- 2.1 With the RCU Volume "+" and "-" buttons, highlight the menu containing the function to be aligned.
- 2.2 Press the RCU "Blue (VT)" button to highlight the function to be aligned, or selected the page (1 or 2).

3. Switching between Service and TV modes

- 3.1 Whilst in the Service Mode, normal TV controls are disabled, to enable these controls whilst in the Service Mode (i.e. for channel changing etc.) press the "TV" button on the RCU. To return to the Service Mode, press the "Blue (VT)" button on the RCU.

4. Alignment and storing new function value

- 4.1 The current value of the selected function is displayed in a hexadecimal form to the left of the function name. This value is adjusted by means of the RCU Volume "+" and "-" buttons.
- 4.2 To STORE the functions new value, highlight MEMO and press the RCU Volume "+" button.
- 4.3 To RESTORE the functions original value, highlight R-STO(RE) and press the RCU Volume "+" button.
- 4.4 Selection the ROM functions downloads the production software default values, these are not very accurate and should only be used in very special cases.

Whilst in the "Service-Mode" a long press (more than 3s) of the RCU "0" button, will reset the TV to the "factory default conditions".

5. Leaving the Service Mode

- 5.1 To leave the Service mode either, switch the TV set into "Standby" or switch "Off" the mains supply.

MODE SERVICE (F)

The mode service sert au réglage de l'appareil. Toutes les opérations de réglage s'effectuent à l'aide de la télécommande (sauf la tension de système, les réglages de Focus et de tension de grille-écran).

1. Accès au mode service

- 1.1 Commuter le téléviseur en position de veille avec la télécommande.
- 1.2 Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- 1.3 Maintenir la touche bleue enfoncée et mettre simultanément le téléviseur en marche avec l'interrupteur secteur.
- 1.4 Le menu suivant apparaît après avoir appuyé à nouveau sur la touche bleue, (VT).

SET-UP	VIDEO	GEOM
TX92WS11		Configuration

Attention : Le mode service n'est pas accessible si un appareil est connecté à la prise péritel.

2. Sélection de la fonction ou de la page (GEOM)

- Par les touches +/- de la télécommande vous pouvez choisir le menu correspondant (SET UP-VIDEO ou GEOM) et le "feuilleter" ou la page (1 ou 2) avec la touche bleue (VT).

3. Inversion entre modes service et TV

Les fonctions télévision normales ne sont pas utilisables en mode service. Si elles sont nécessaires en mode service (p. ex. changement de programme), la touche (TV) permet de commuter en mode TV. Vous pouvez revenir au mode service en appuyant sur la touche bleue.

4. Réglage des fonctions sélectionnées: mémorisation

La valeur momentanée de la fonction sélectionnée est indiquée sous forme hexadécimale à droite, à côté de la position à régler et peut être modifiée avec la télécommande par la touche + ou -.

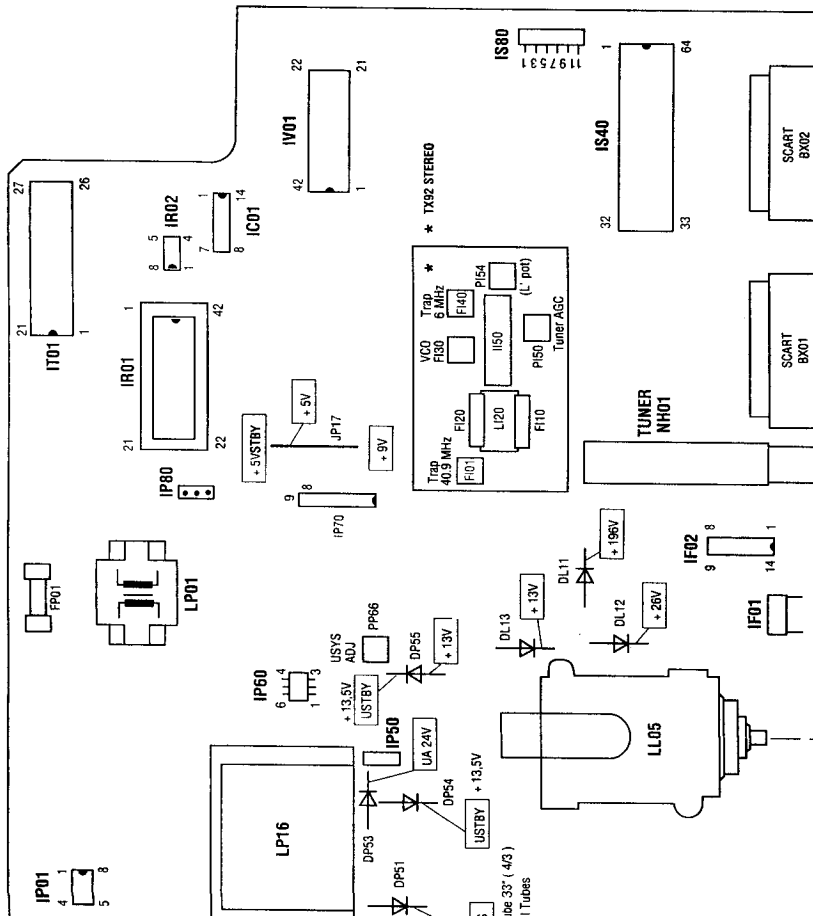
La ligne MEMO permet de mémoriser les nouvelles valeurs de réglage avec la touche +.

La ligne R-STO(RE) permet de rappeler les valeurs mémorisées. Les valeurs par défaut du logiciel peuvent être chargées en sélectionnant la fonction ROM. Elles ne constituent cependant qu'une approximation du réglage et ne doivent être utilisées qu'en cas de nécessité.

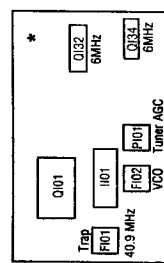
En mode service une longue pression (plus de 3s) sur la touche "0" reset le TV aux valeurs par défaut des réglages usine.

5. Sortie du mode service

Pour sortir du mode service, commuter le téléviseur en position de veille ou le mettre hors service par l'interrupteur secteur.



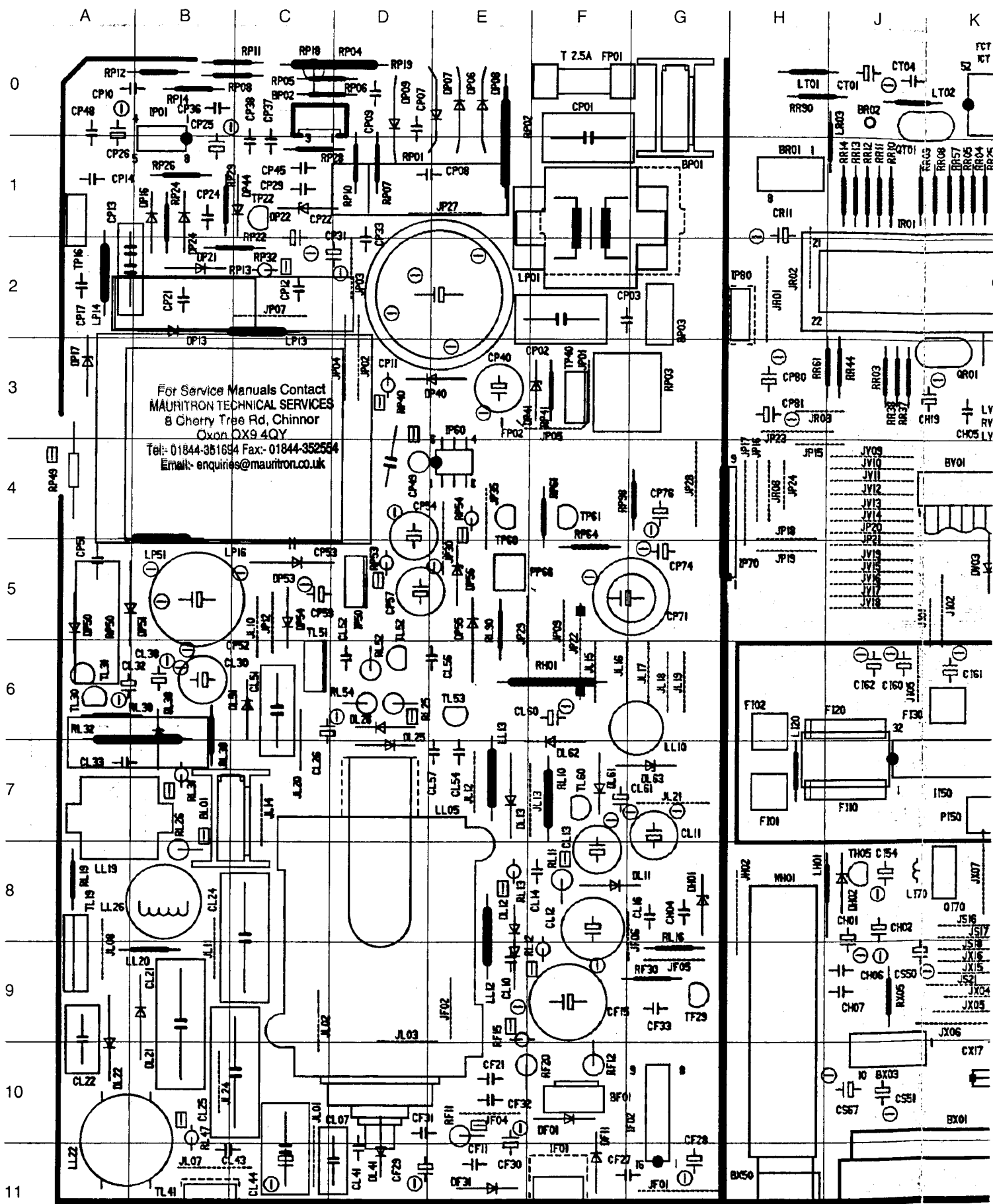
* TX92 MEMO



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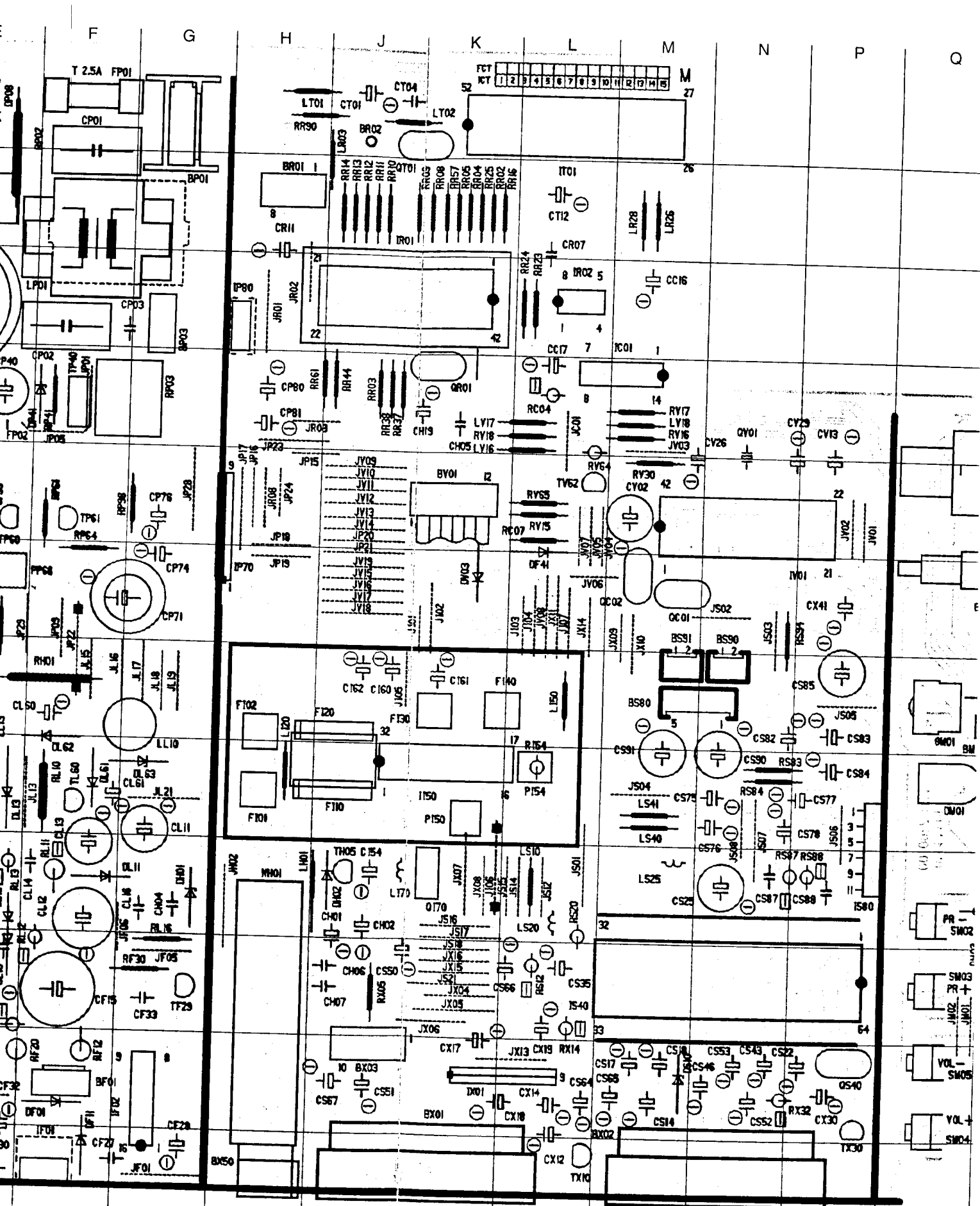
MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLA

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES

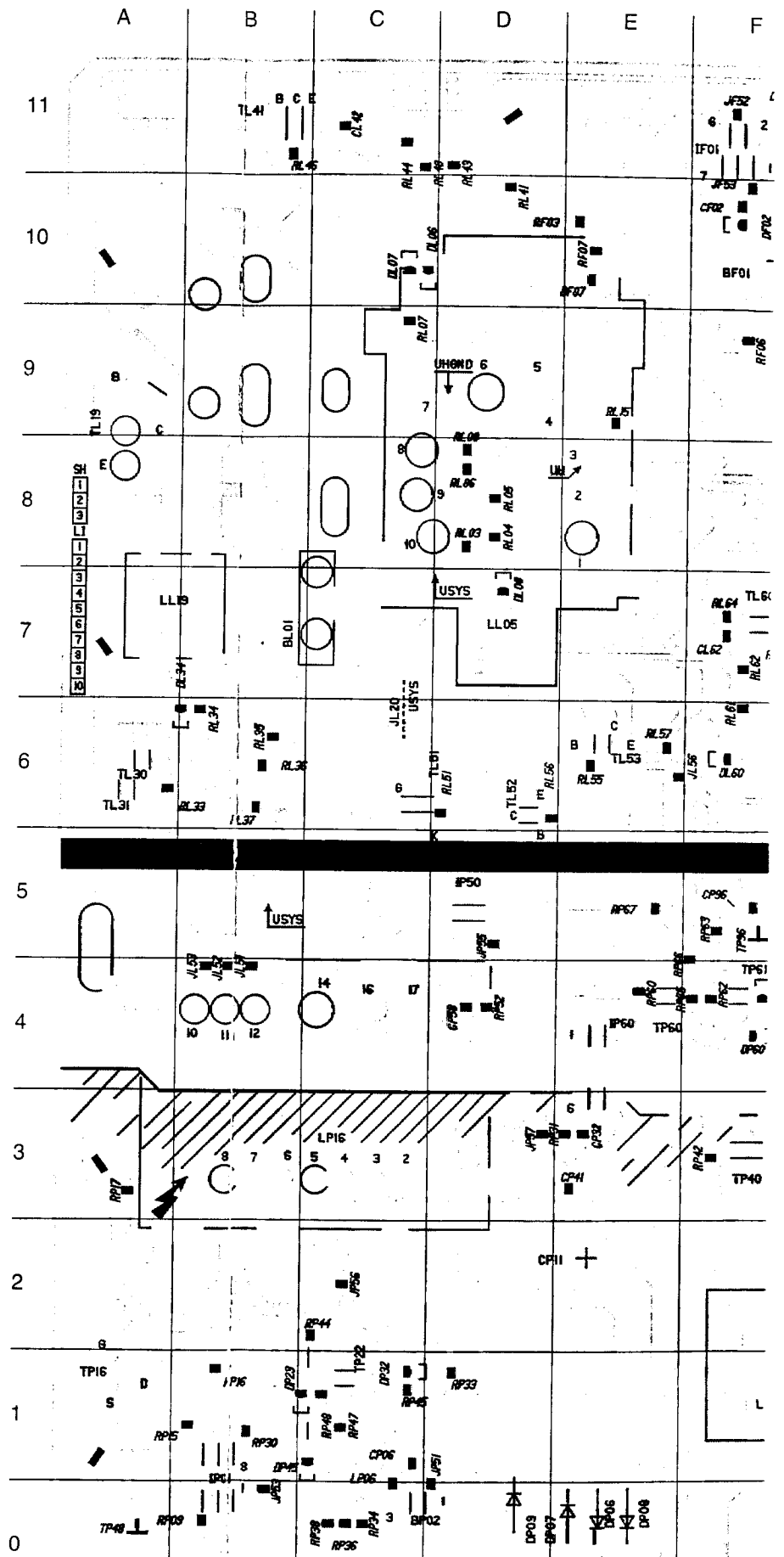
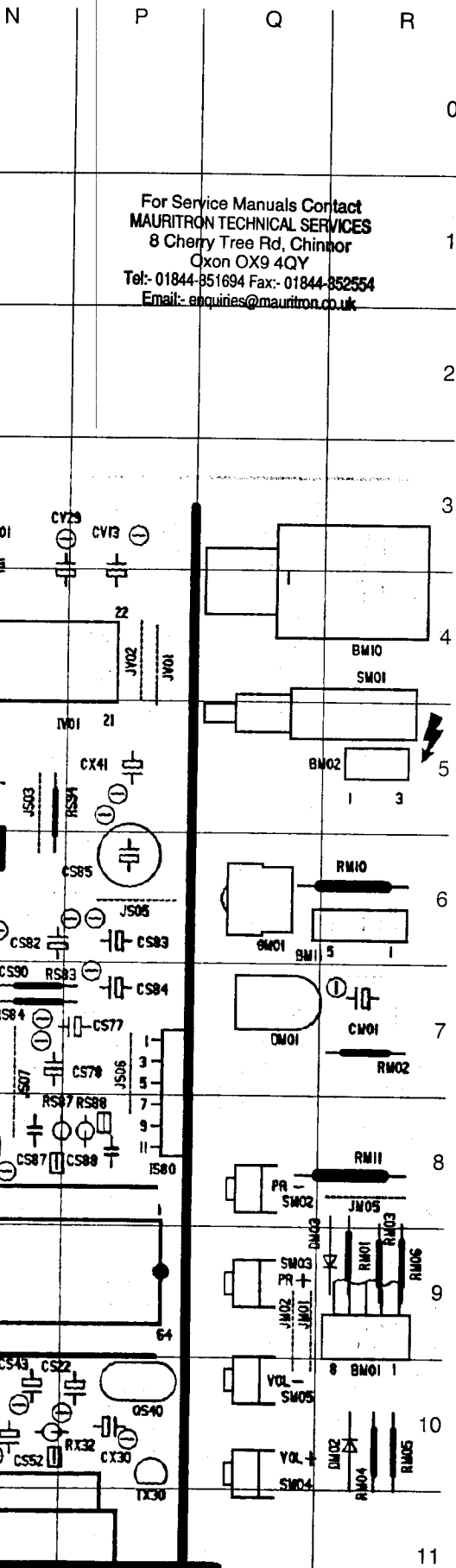


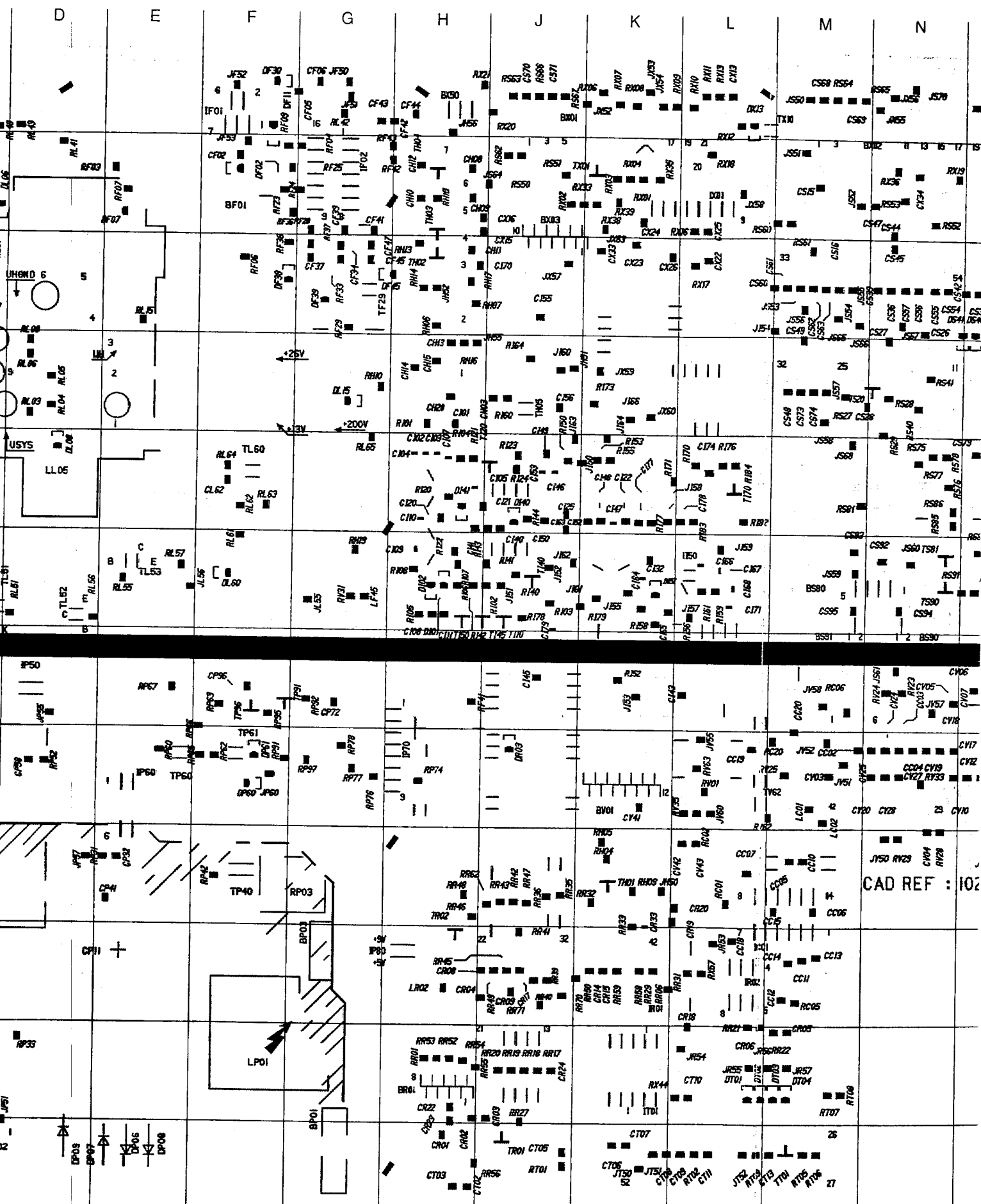
SSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL (STEREO)

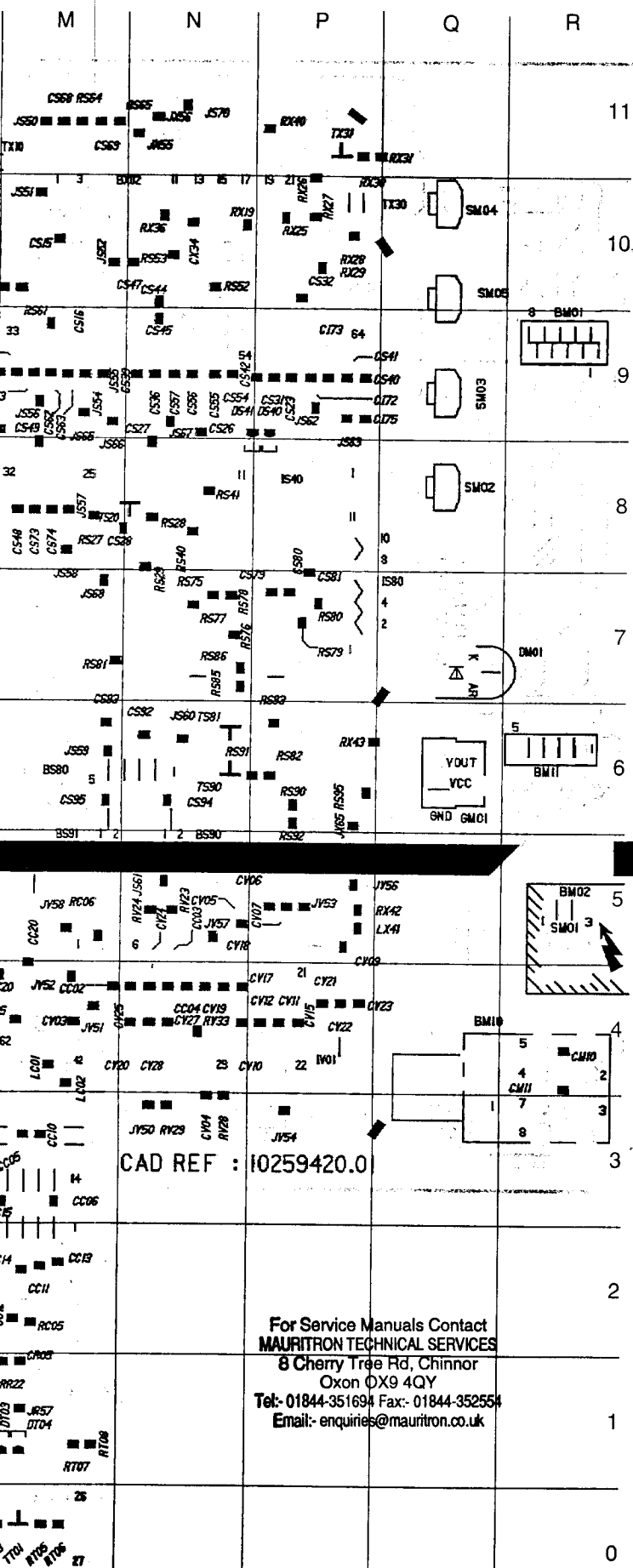
KUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



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	1	2	3
BF01	F10		
BF01*	F10		
BL01	B7		
BL01*	B7		
BM01	R9		
BM02	R5		
BM11	R6		
BP01	G1		
BP01*	G0		
BP02	C0		
BP02*	C0		
BP03	G2		
BP03*	G1		
BR01	H1		
BR01*	H1		
BR02	J0		
BS80	M6		
BS80*	M6		
BS90	N5		
BS90*	N6		
BS91	M5		
BS91*	M6		
BV01	K4		
BV01*	K4		
BX01	K10		
BX01*	J11		
BX02	M10		
BX02*	M11		
BX03	J10		
BX03*	J10		
BX50	H11		
BX50*	H11		

CC02*	M4
CC03*	N5
CC04*	N4
CC05*	M3
CC07*	L3
CC10*	M3
CC11*	M2
CC12*	M2
CC13*	M2
CC14*	M2
CC15*	M3
CC16*	M2
CC17*	L2
CC18*	L2
CC19*	L4
CC20*	M5
CC06*	M3
CF02*	F10
CF05*	F11
CF06*	F11
CF11	E11
CF15	F9
CF21	E10
CF27	F11
CF28	G10
CF29	D11
CF30	E11
CF31	D10
CF32	E10
CF33	G9
CF34*	G9
CF37*	G9
CF39*	G10
CF42*	G11
CF43*	G11
CF44*	H11
CF45*	G9
CF46*	G11
CF47*	G9
CH01	J8
CH02	J8
CH04	G8
CH05	K3
CH06	J9
CH07	J9
CH08*	H10
CH09*	H10
CH10*	H10
CH11*	H9
CH12*	H10
CH13*	H8
CH14*	H8
CH15*	H8
CH19	K3
CH20*	H8
CI01*	H8
CI02*	H7
CI03*	H7
CI04*	H7
CI05*	J7
CI07*	H7
CI08*	H6
CI09*	H6
CI10*	H7
CI11*	H6

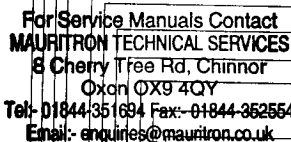
CI21*	H7
CI22*	K7
CI25*	J7
CI32*	K6
CI40*	J6
CI41*	H6
CI43*	K5
CI45*	J5
CI46*	J7
CI47*	K7
CI48*	K7
CI49*	J8
CI50*	J6
CI52*	J7
CI53*	J7
CI54	J8
CI55*	J9
CI56*	J8
CI60	J6
CI61	K6
CI62	J6
CI63*	J7
CI64*	K6
CI65*	K6
CI66*	L6
CI67*	L6
CI68*	L6
CI70*	H9
CI71*	L6
CI72*	P9
CI73*	P9
CI74*	L7
CI75*	P9
CI77*	K7
CI78*	L7
CI79*	J6
CL07	D10
CL10	E9
CL11	G7
CL12	F8
CL13	F8
CL14	F8
CL16	G8
CL21	B9
CL22	A10
CL24	B8
CL25	B10
CL26	C7
CL30	C6
CL32	B6
CL33	A7
CL38	B6
CL41	D11
CL42*	C11
CL43	B11
CL44	C11
CL51	C6
CL52	D5
CL54	E7
CL56	E6
CL57	E7
CL60	F6
CL61	G7
CL62*	F7
CM01	R7
CM10*	R4
CM11*	R4
CP01	F0
CP02	F2
CP03	F2
CP06*	C1
CP07	D0
CP08	E1
CP09	D0
CP10	A0
CP11	D3
CP11*	E2
CP12	C2
CP13	A1
CP14	A1
CP17	A2
CP21	B2
CP22	C1
CP24	B1
CP25	B0
CP26	A1
CP29	C1
CP31	D2
CP32*	E3
CP33	D2
CP36	B0
CP37	C0
CP38	C0
CP40	E3
CP41*	E3
CP45	C1
CP48	A0
CP49	D4
CP51	A5
CP52	C6
CP53	C5
CP54	D4

CP57	D5
CP58*	D4
CP59	C5
CP71	G5
CP72*	G5
CP74	G5
CP76	G4
CP80	H3
CP81	H3
CP96*	F5
CR01*	H0
CR02*	H1
CR03*	J1
CR04*	H2
CR05*	M1
CR06*	L1
CR07	L1
CR08*	H2
CR09*	J2
CR11	H1
CR14*	K2
CR15*	K2
CR17*	J2
CR18*	L2
CR19*	L2
CR20*	L3
CR22*	H1
CR23*	H1
CR24*	J1
CS14	M10
CS15*	M10
CS16*	M9
CS17	M10
CS18	M10
CS22	P10
CS23*	P9
CS25	M8
CS26*	N9
CS27*	N9
CS28*	M8
CS31*	P9
CS32*	P10
CS35	L9
CS36*	N9
CS39*	M9
CS40*	P9
CS41*	P9
CS42*	N9
CS43	N10
CS44*	N10
CS45*	N9
CS46	N10
CS47*	M10
CS48*	M8
CS49*	M9
CS50	J9
CS51	J10
CS52	N10
CS53	N10
CS54*	N9
CS55*	N9
CS56*	N9
CS57*	N9
CS60*	L9
CS61*	L9
CS62*	M9
CS63*	M9
CS64	L10
CS65	M10
CS66	L9
CS67	J10
CS68*	M11
CS69*	M11
CS70*	J11
CS71*	J11
CS73*	M8
CS74*	M8
CS75	N7
CS76	N7
CS77	P7
CS78	P7
CS79*	P7
CS80*	P8
CS81*	P7
CS82	N6
CS83	P6
CS84	P7
CS85	P6
CS87	N8
CS88	P7
CS90	N7
CS91	M6
CS92*	N6
CS93*	M7
CS94*	N6
CS95*	M6
CT01	J0
CT02*	H0
CT03*	H0
CT04	J0
CT05*	J0
CT06*	K0

CT07*	K0
CT08*	K0
CT09*	L0
CT10*	L1
CT11*	L0
CT12	L1
CT13*	L0
CV01	P5
CV02	M4
CV03*	M4
CV04*	N3
CV05*	N5
CV06*	N5
CV07*	P5
CV09*	P5
CV10*	N4
CV11*	P4
CV12*	P4
CV13	P3
CV15*	P4
CV17*	P4
CV18*	N5
CV20*	M4
CV21*	P4
CV22*	P4
CV23*	P4
CV24*	N5
CV25*	N4
CV26	N3
CV27*	N4
CV28*	N4
CV29	P3
CV42*	L3
CV43*	L3
CX12	L11
CX13*	L11
CX14	L10
CX15*	H10
CX16*	H10
CX17	K10
CX18	L10
CX19	L10
CX22*	L9
CX23*	K9
CX24*	K10
CX25*	L10
CX26*	K9
CX30	P10
CX33*	K9
CX34*	N10
CY19*	N4
CY41*	K4

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

[illegible]



5Vpp
With Menu

(uP)

MICROPROCESSOR
CLX 2010/2050

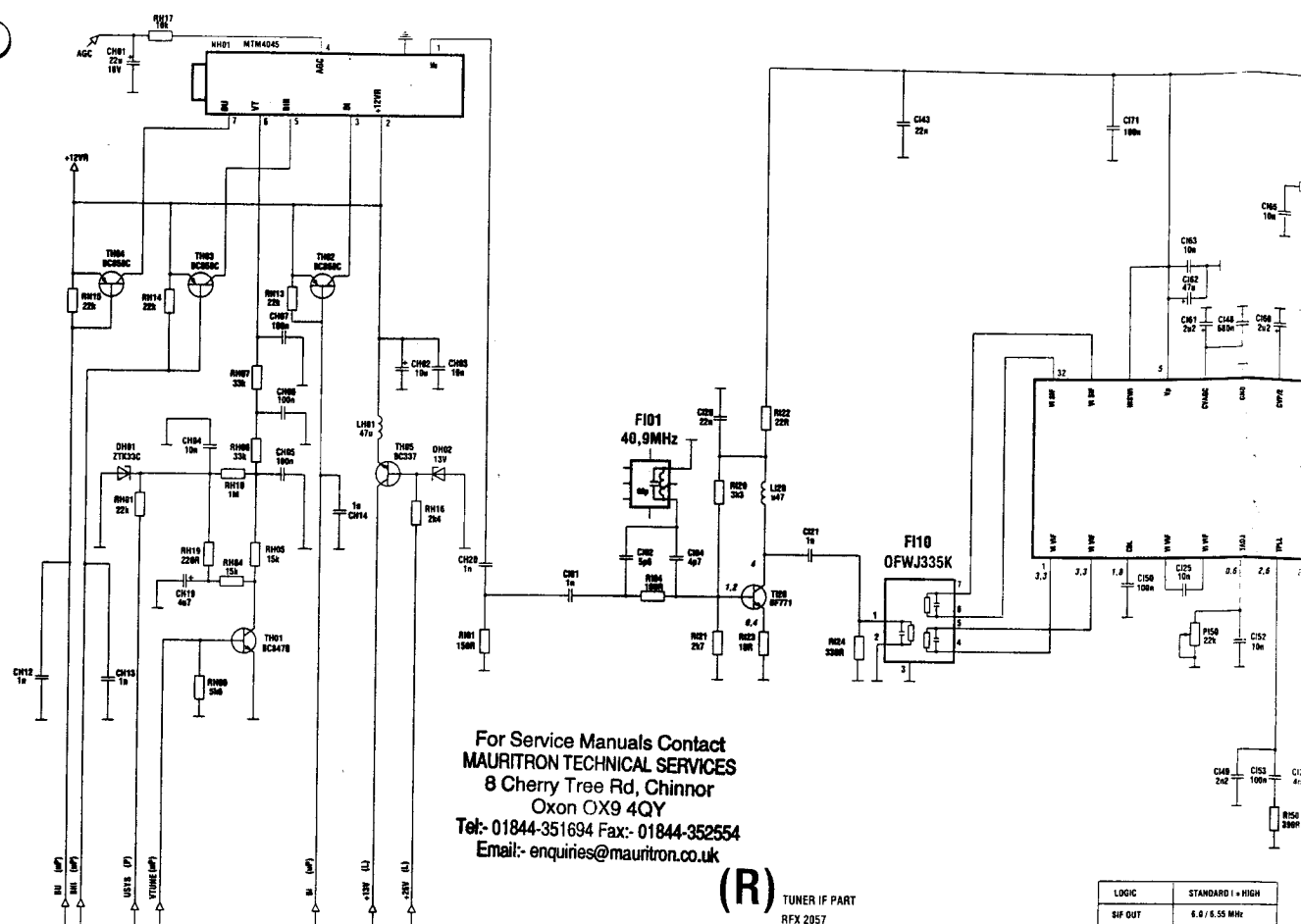


Cuidado :
Medida en el bloque de alimentación

(P) POWER SUPPLY

MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE SCH

MAIN

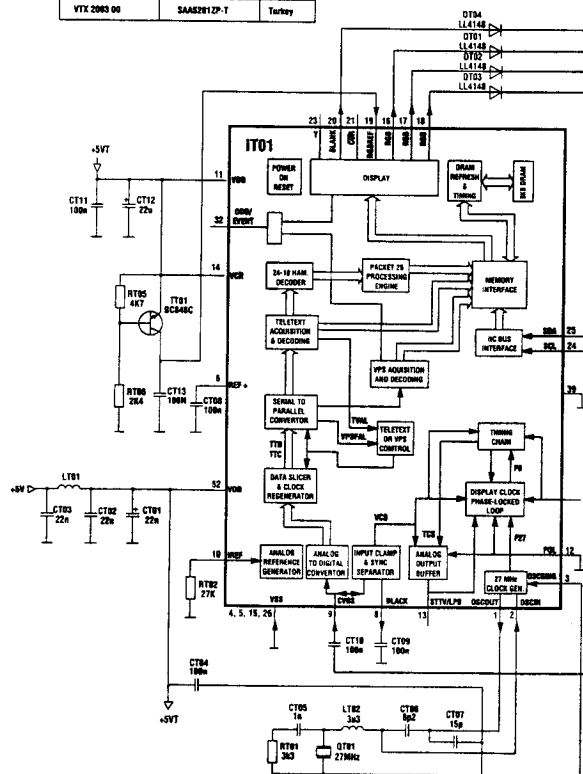


For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

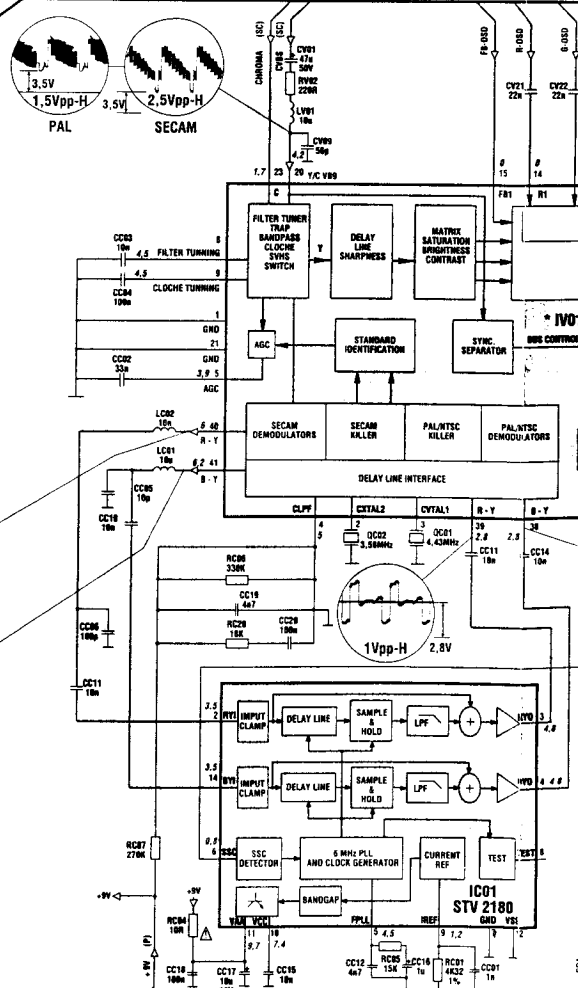
(R) TUNER IF PART
 RFX 2057

LOGIC	STANDARD = HIGH
SIF OUT	6.0 / 5.55 MHz

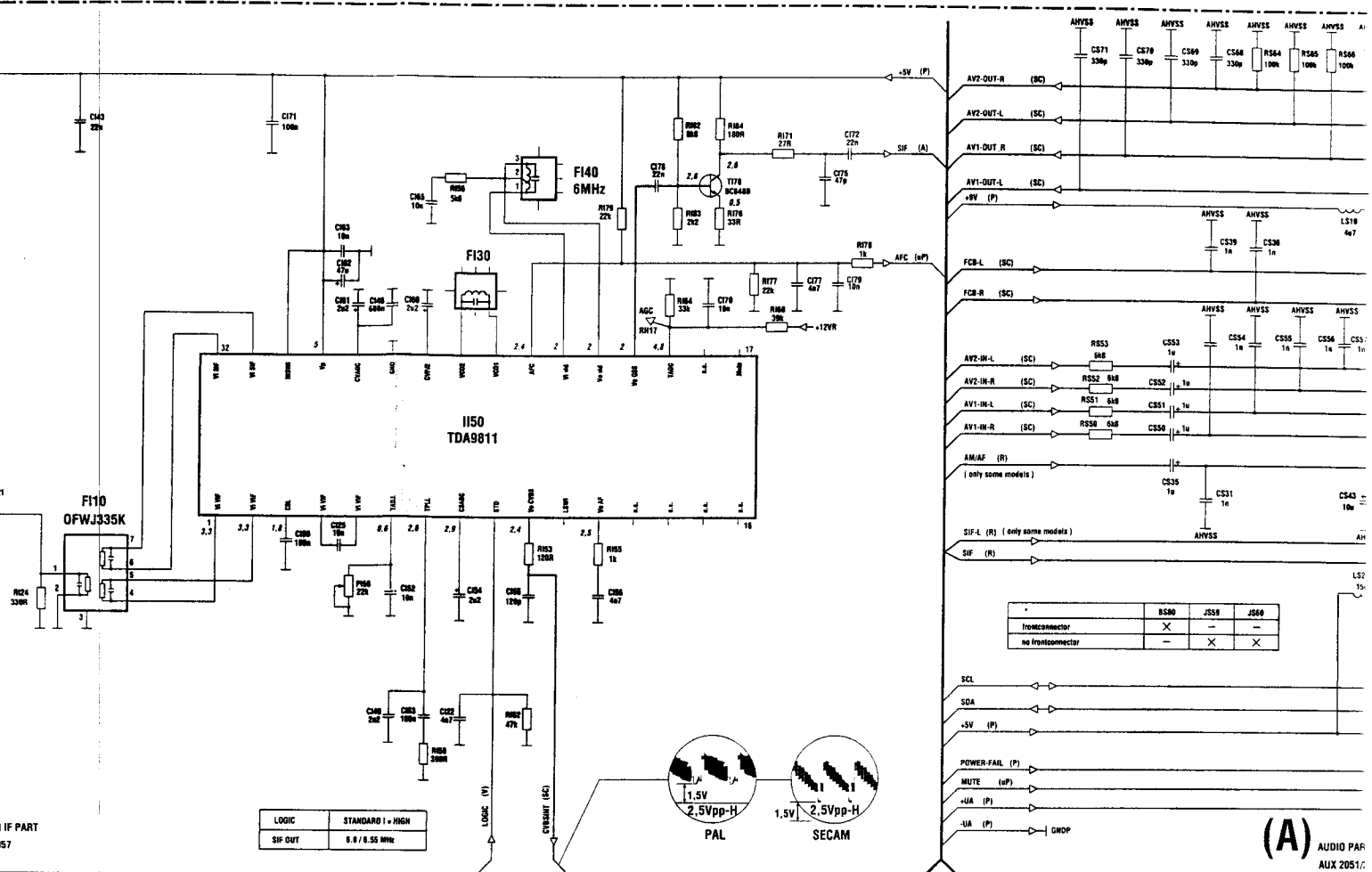
IT01		
VTX 2001 00	SAAS2812P-E	EU
VTX 2002 00	SAAS2812P-H	EU/US
VTX 2003 00	SAAS2812P-T	Turkey



(VTX) TELETEXT PART
 VTX 2001

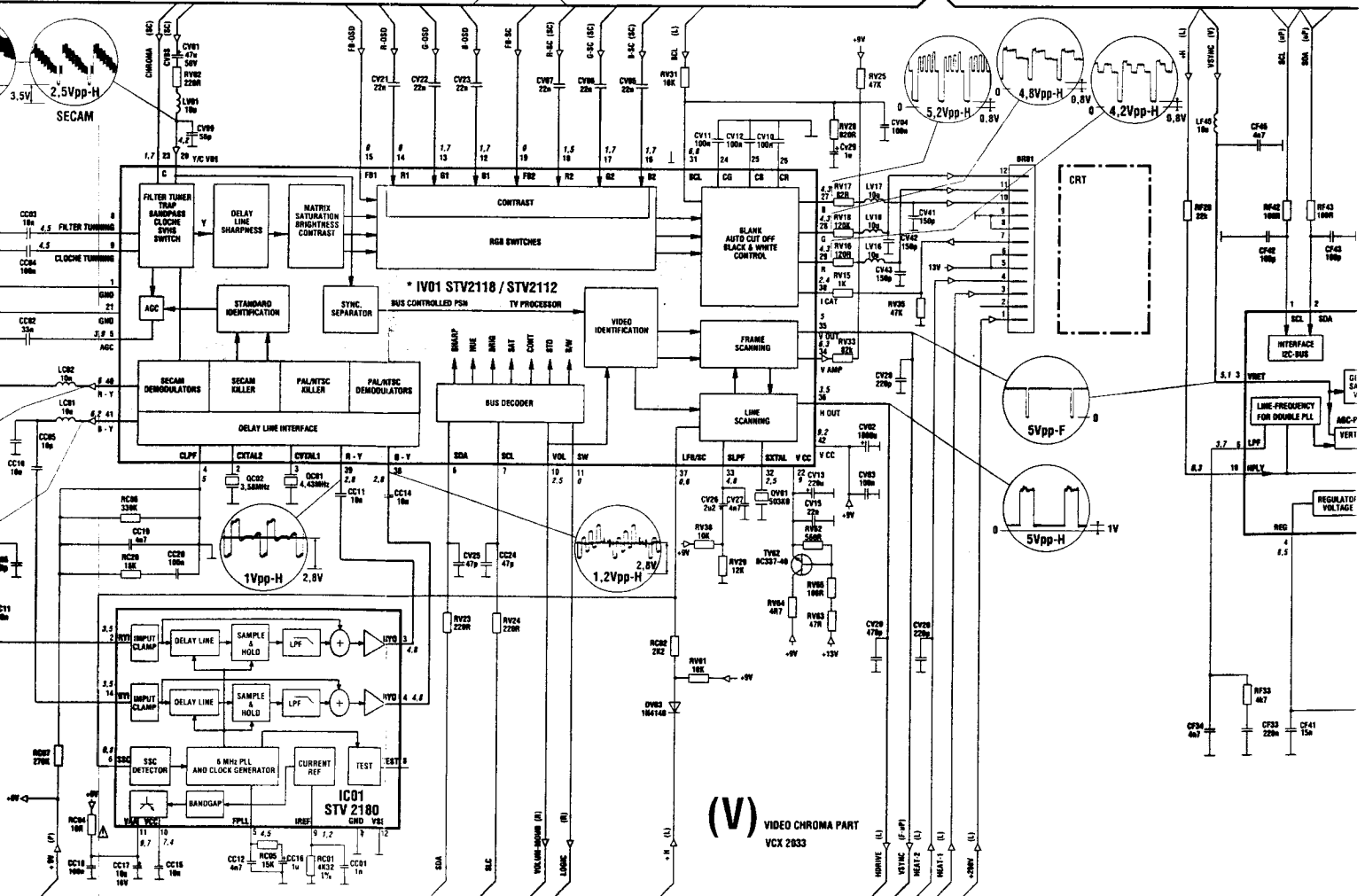


E - CHASSIS GRUNDPLATTE SCHALTBIELD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PF



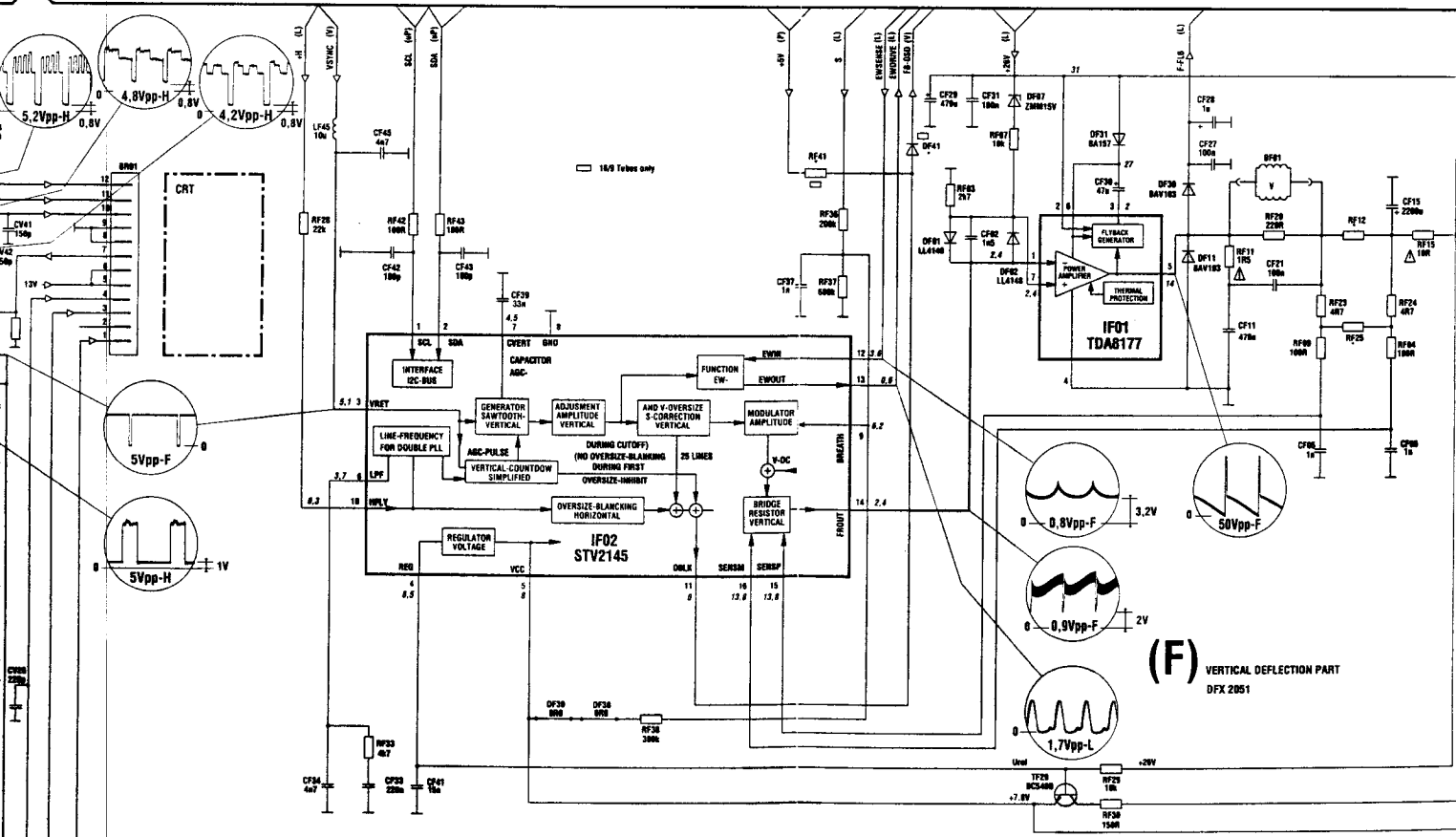
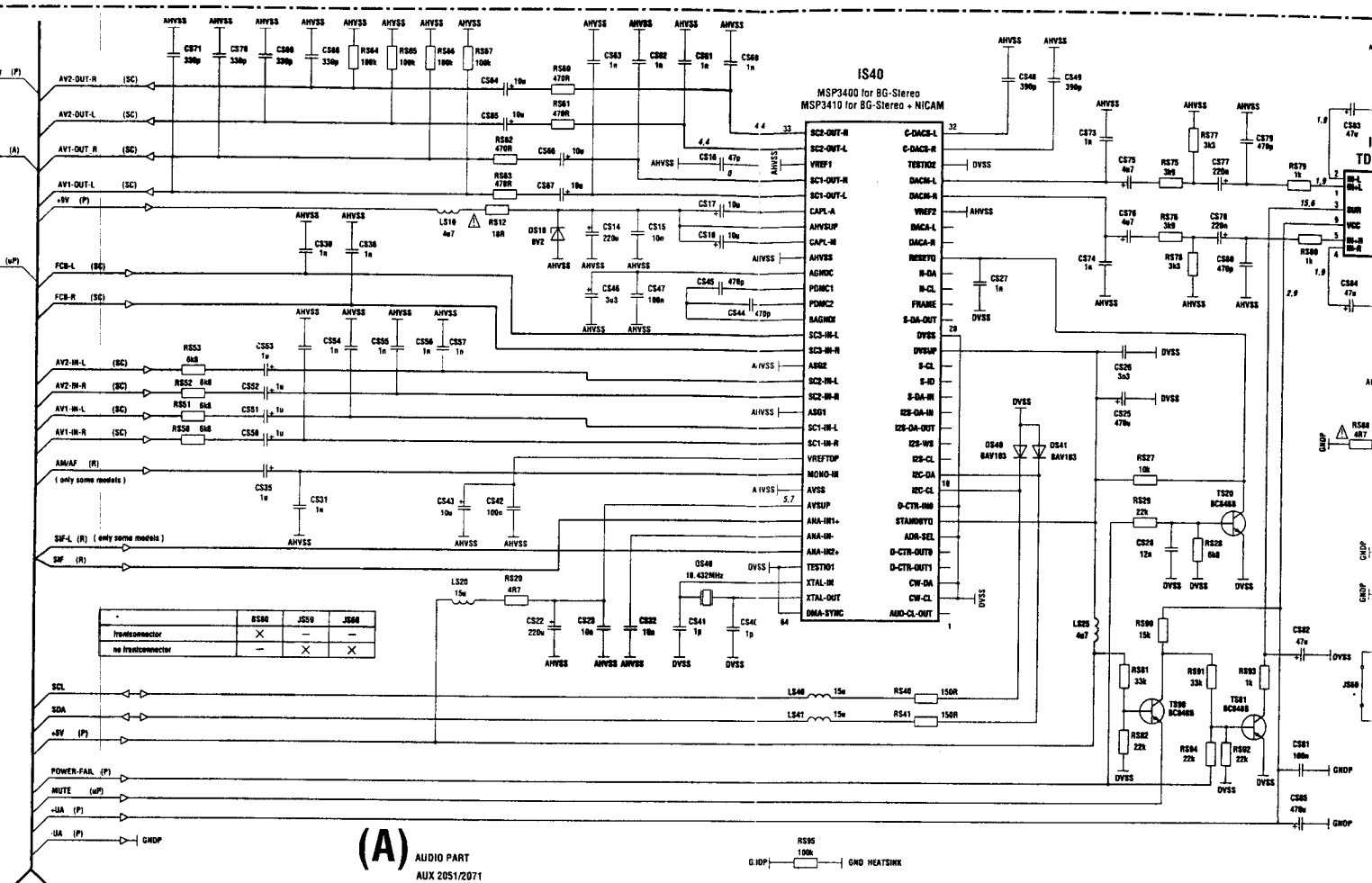
IF PART
57

(A) AUDIO PAR
AUX 2051:



(V) VIDEO CHROMA PART
VCX 2033

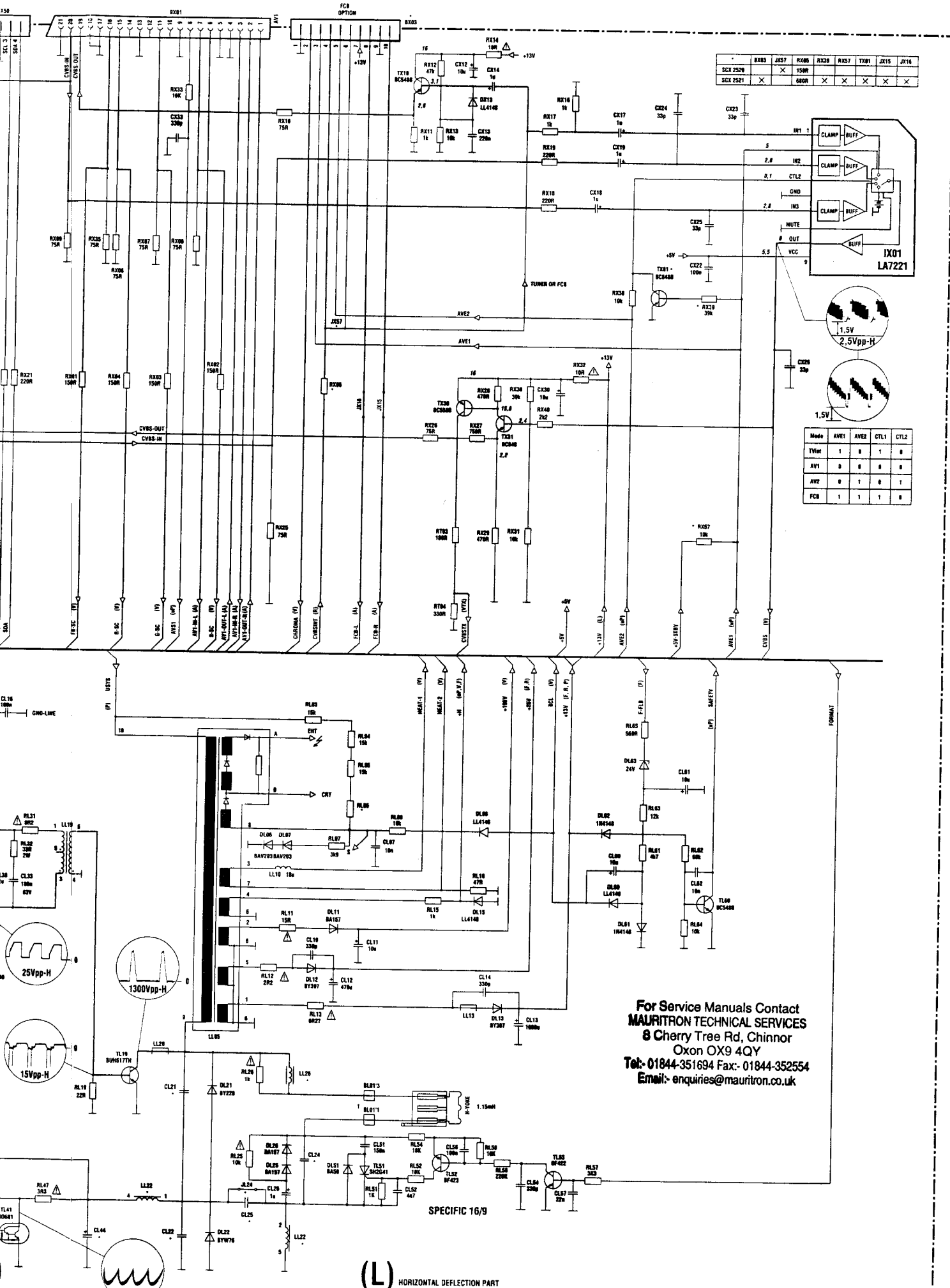
PRINCIPAL - ESQUEMA PLATINA PRINCIPAL (STEREO)



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8 Cherry Tree Rd, Chinnor
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Tel: 01844-351694 Fax: 01844-352554



CL24	CL25	CL44	RL41	RL42	RL43	RL44	RL48	LL22	LL26	LL38
510a	JK24	2x7	15a	4x99	24x9	2x74	24x9	10092990	30x5	18279940
600a	1x5	4x7	15a	4x99	24x9	2x74	24x9	10095000	30x5	18319490

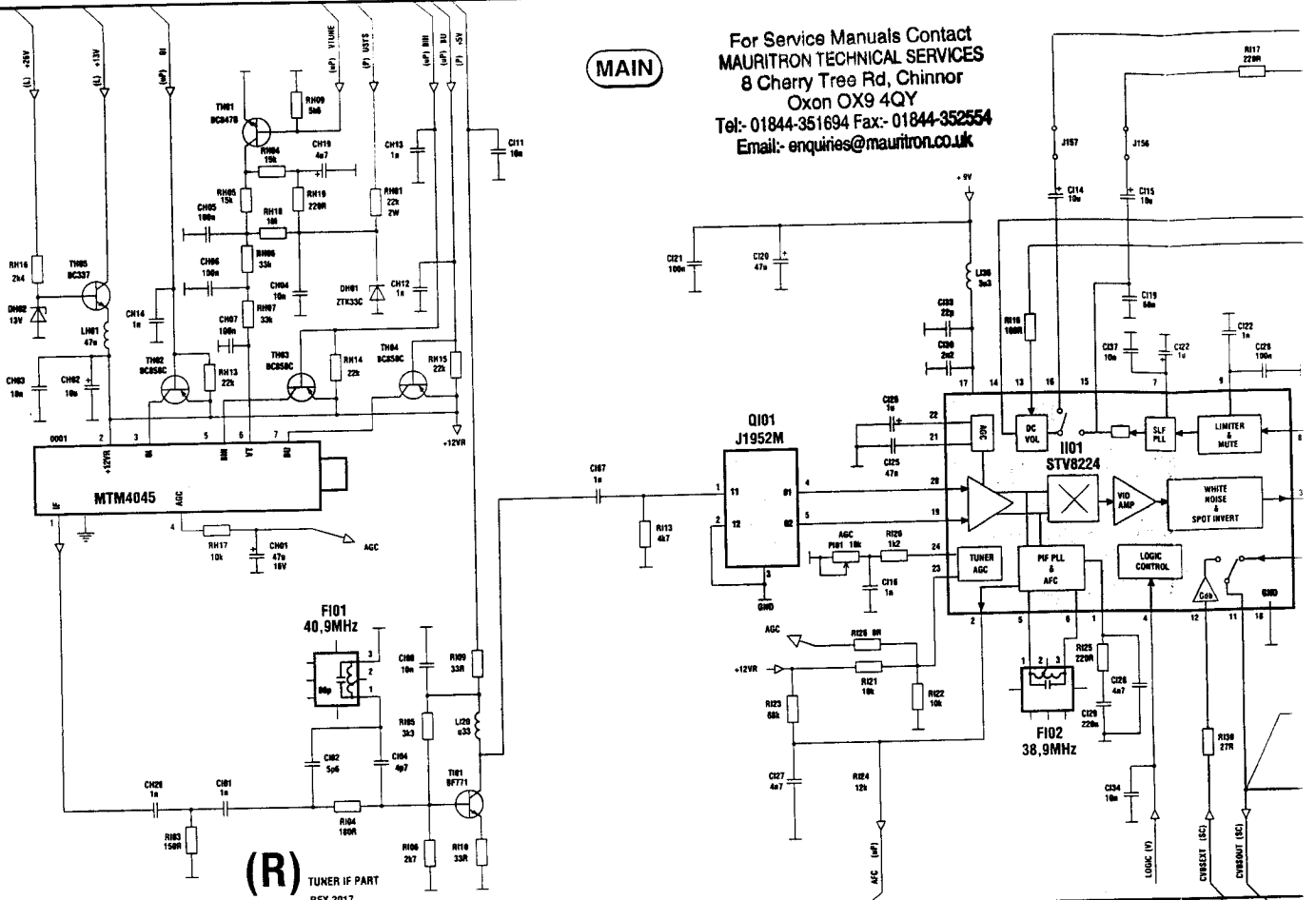


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MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE SCHAL

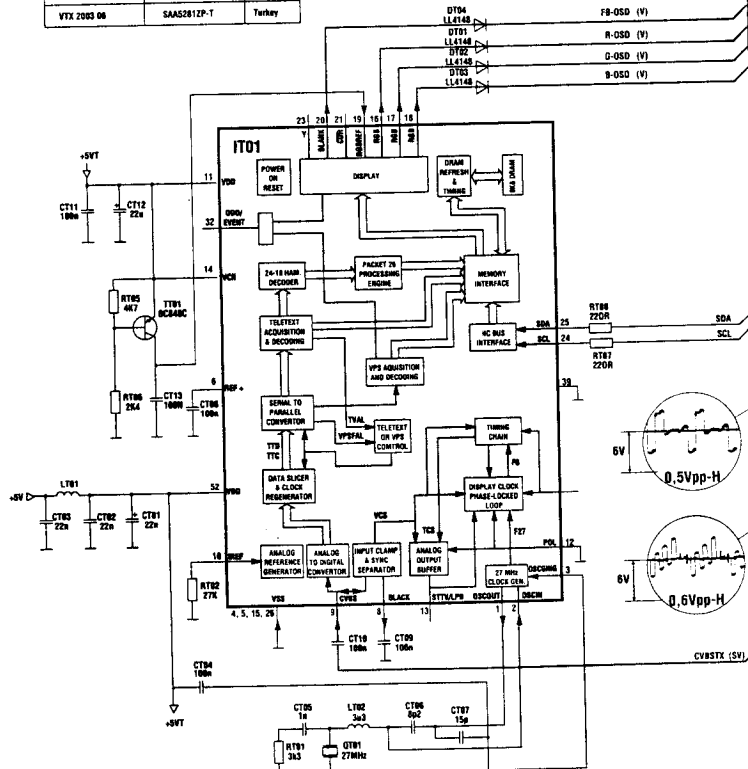
MAIN

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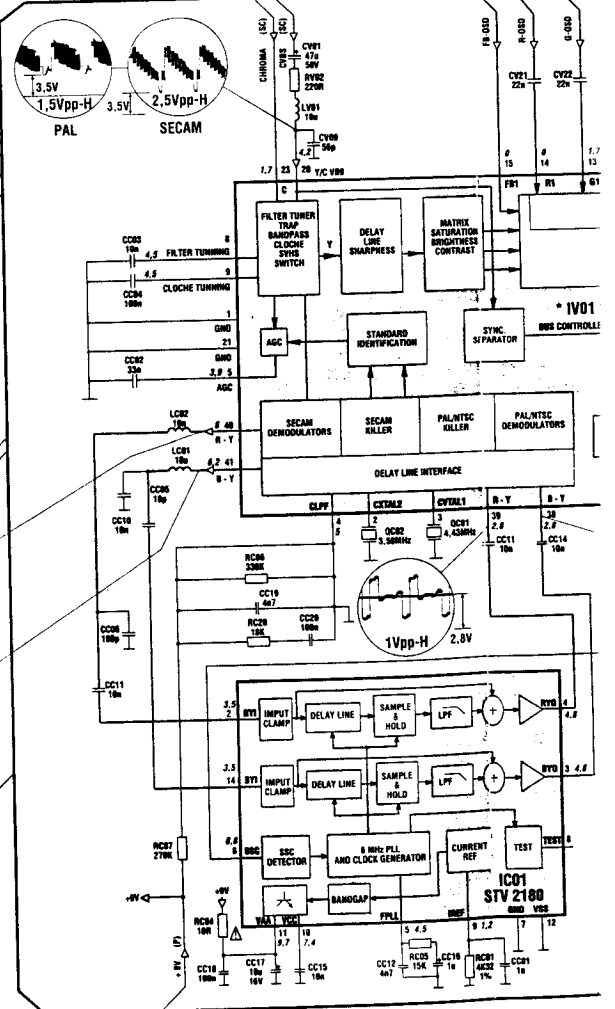


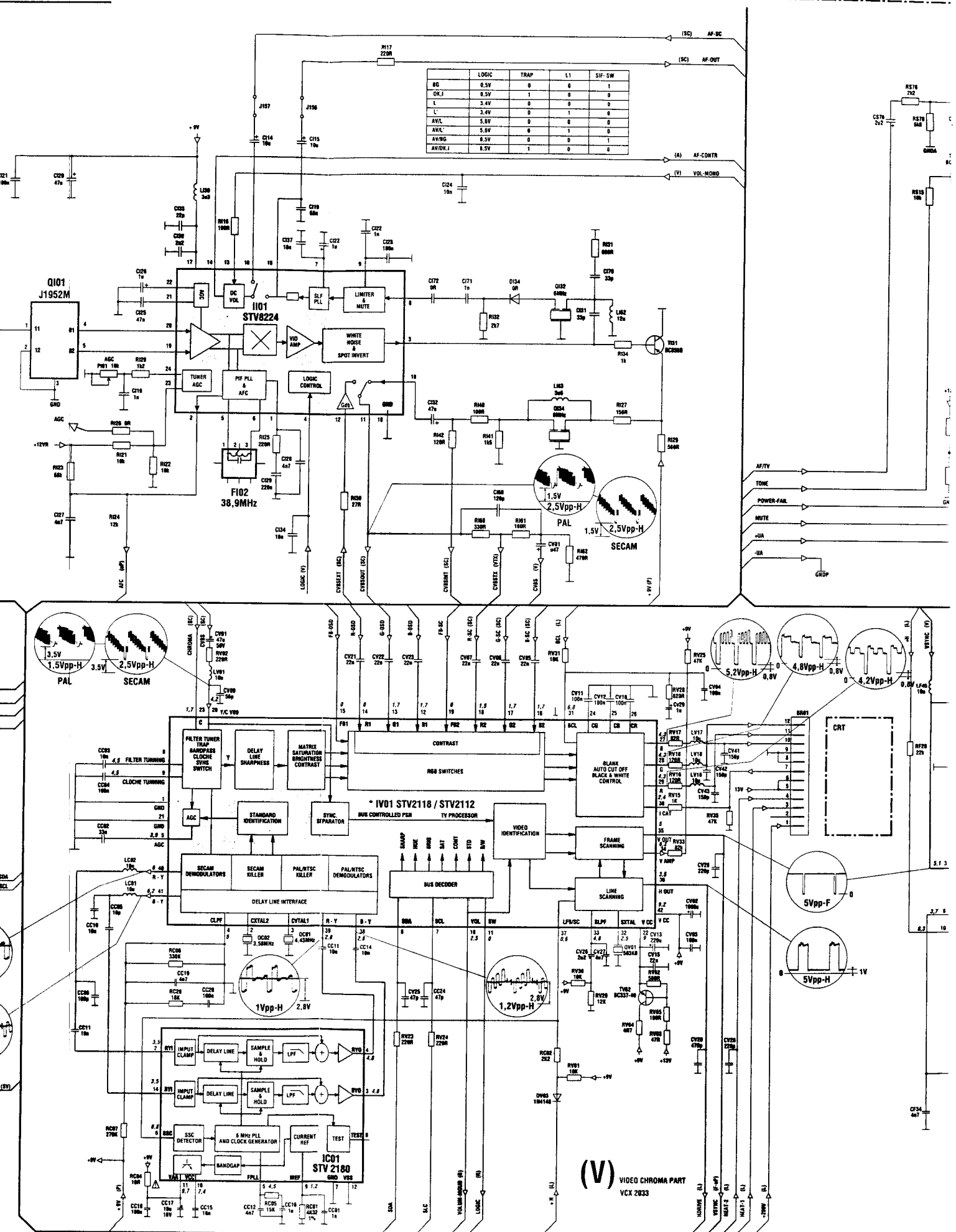
(R) TUNER IF PART
RFX 2017

	IT01	
VTX 2001 00	SAAS2012P-E	EU
VTX 2002 00	SAAS2012P-H	Elceast
VTX 2003 00	SAAS2012P-T	Turkey

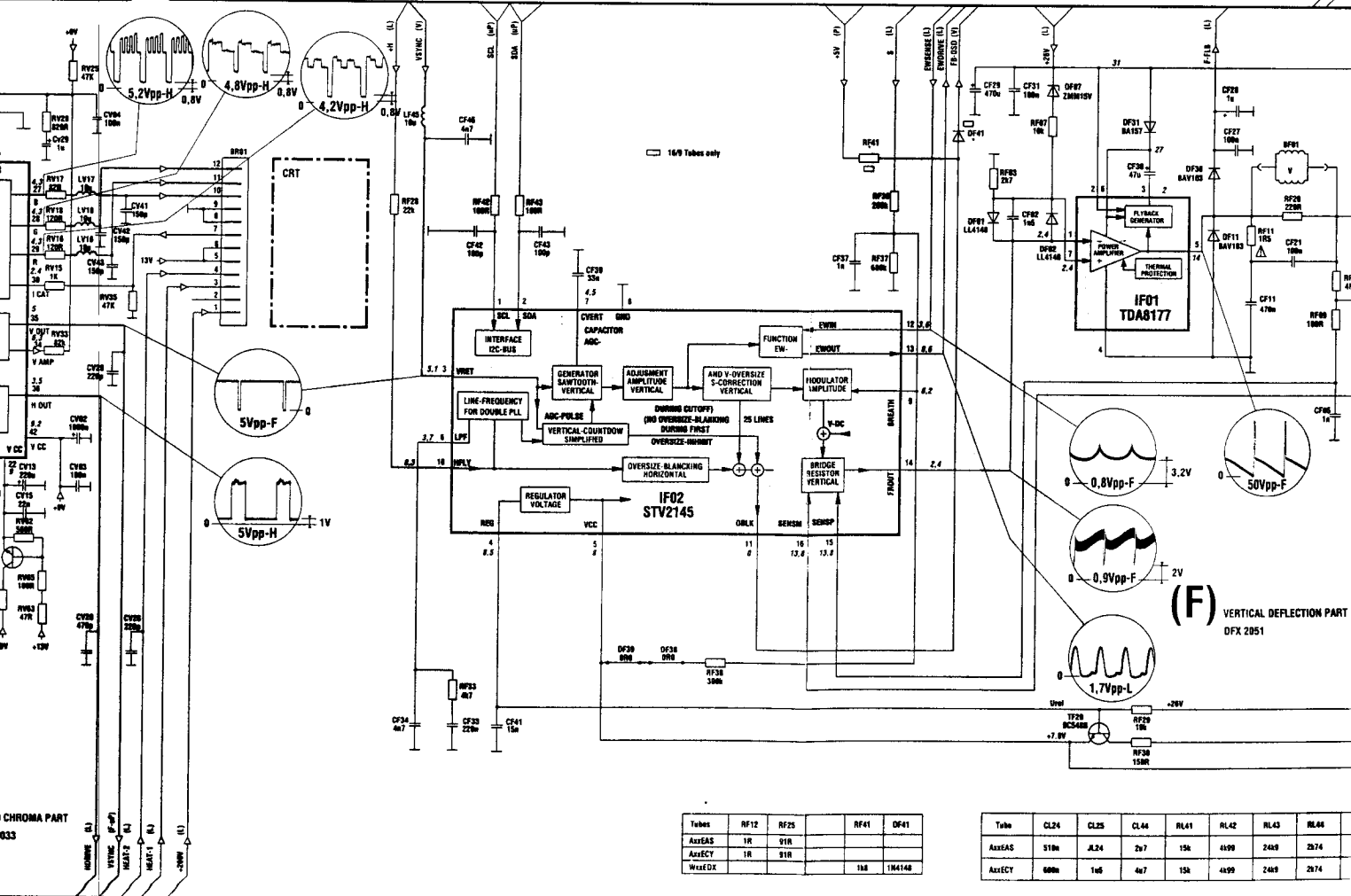
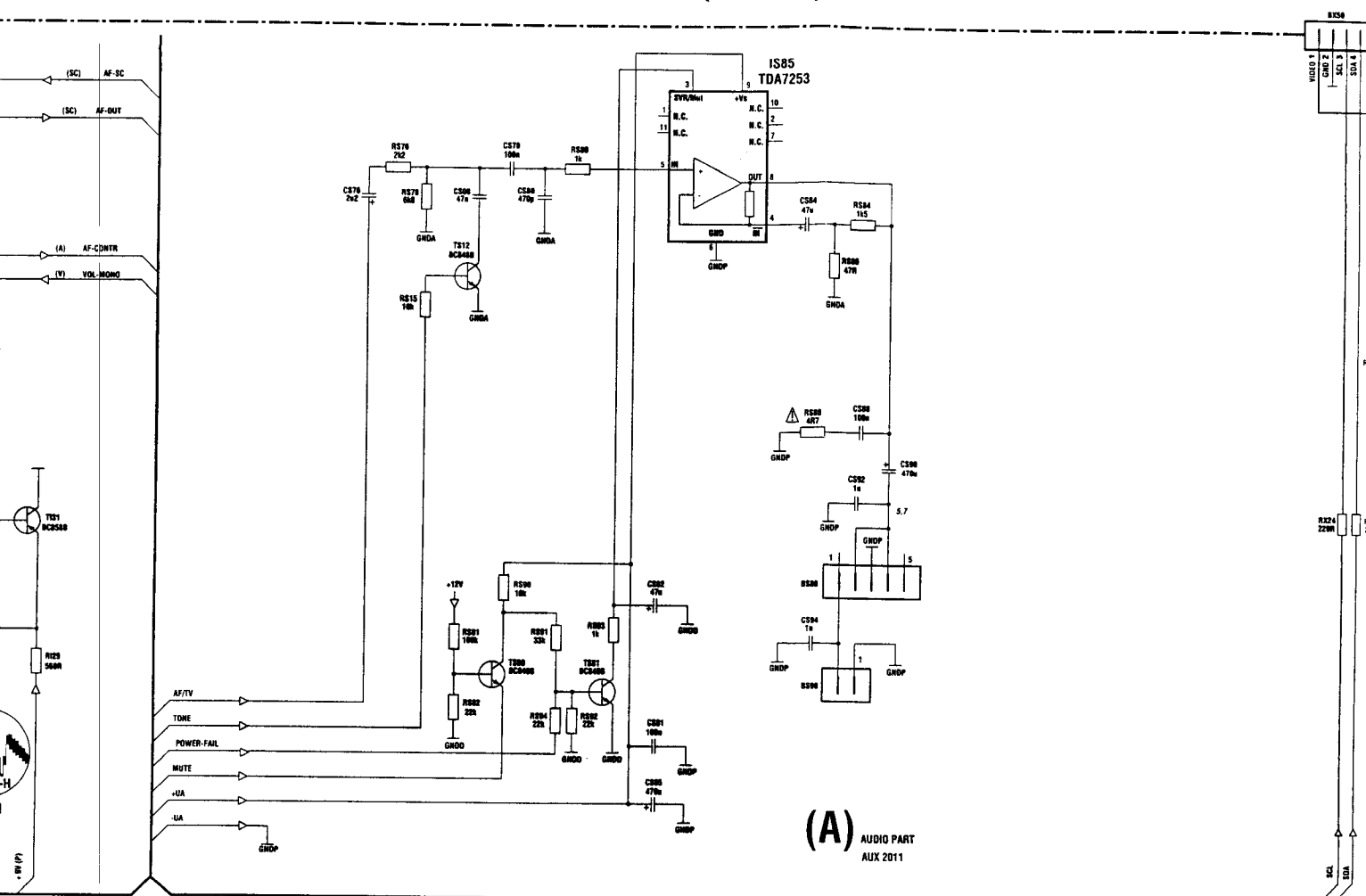


(VTX) TELETEXT PART
VTX 2001



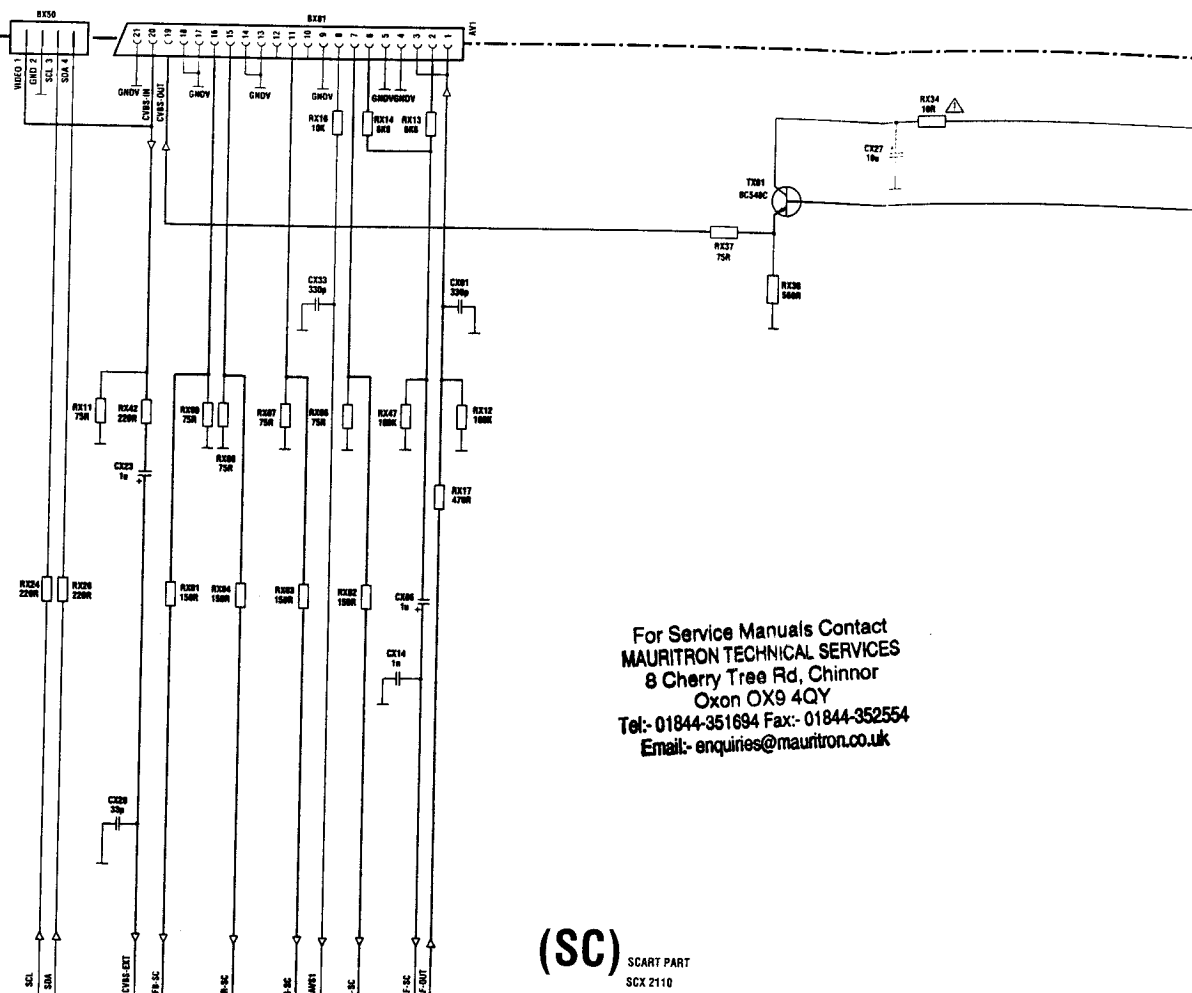


TRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL (MONO)

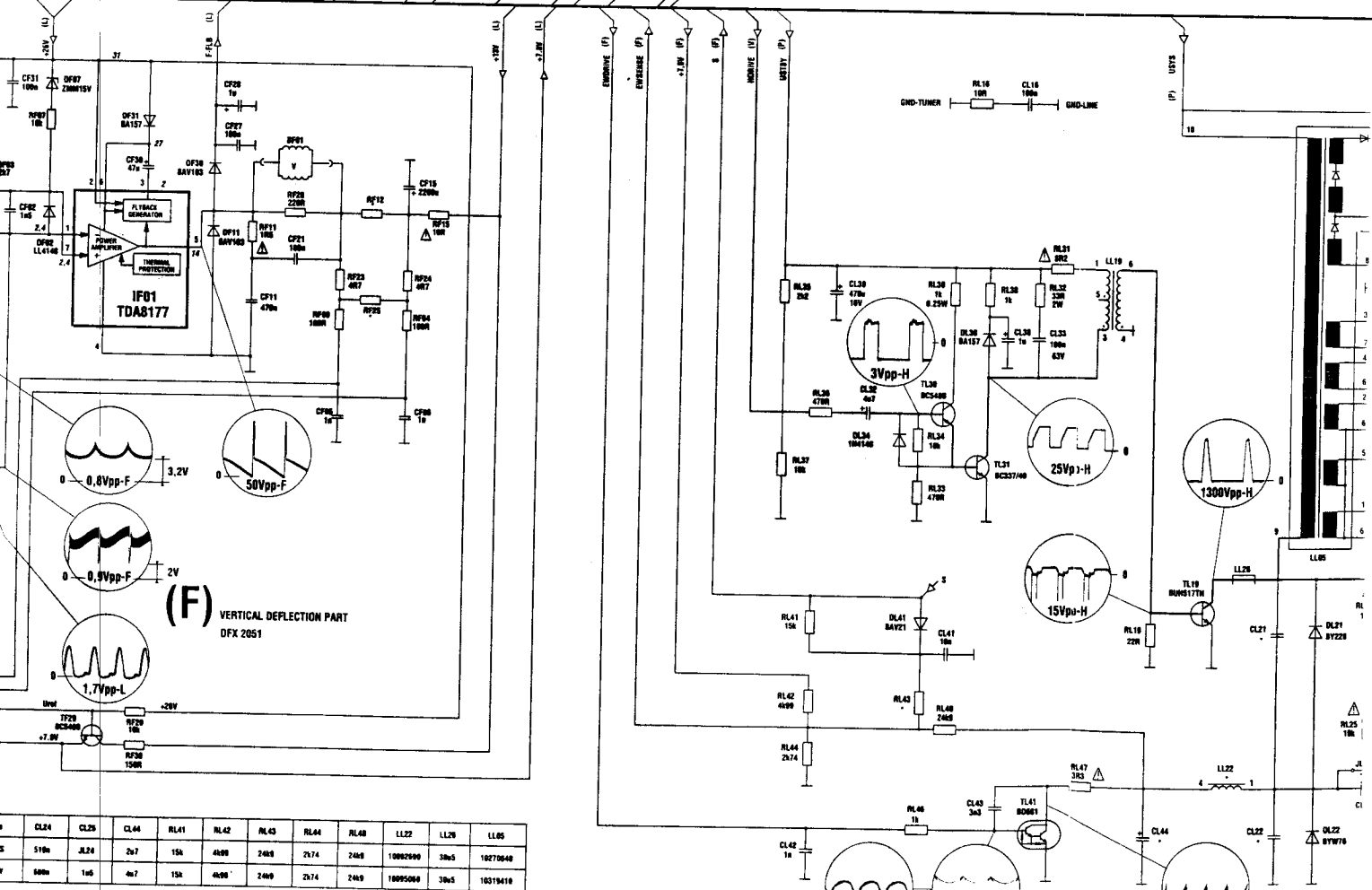


Tubes	RF12	RF25		RF41	DF41
AxxEAS	1R	91R			
AxxECY	1R	91R			
WxxEDX				1h8	1N4148

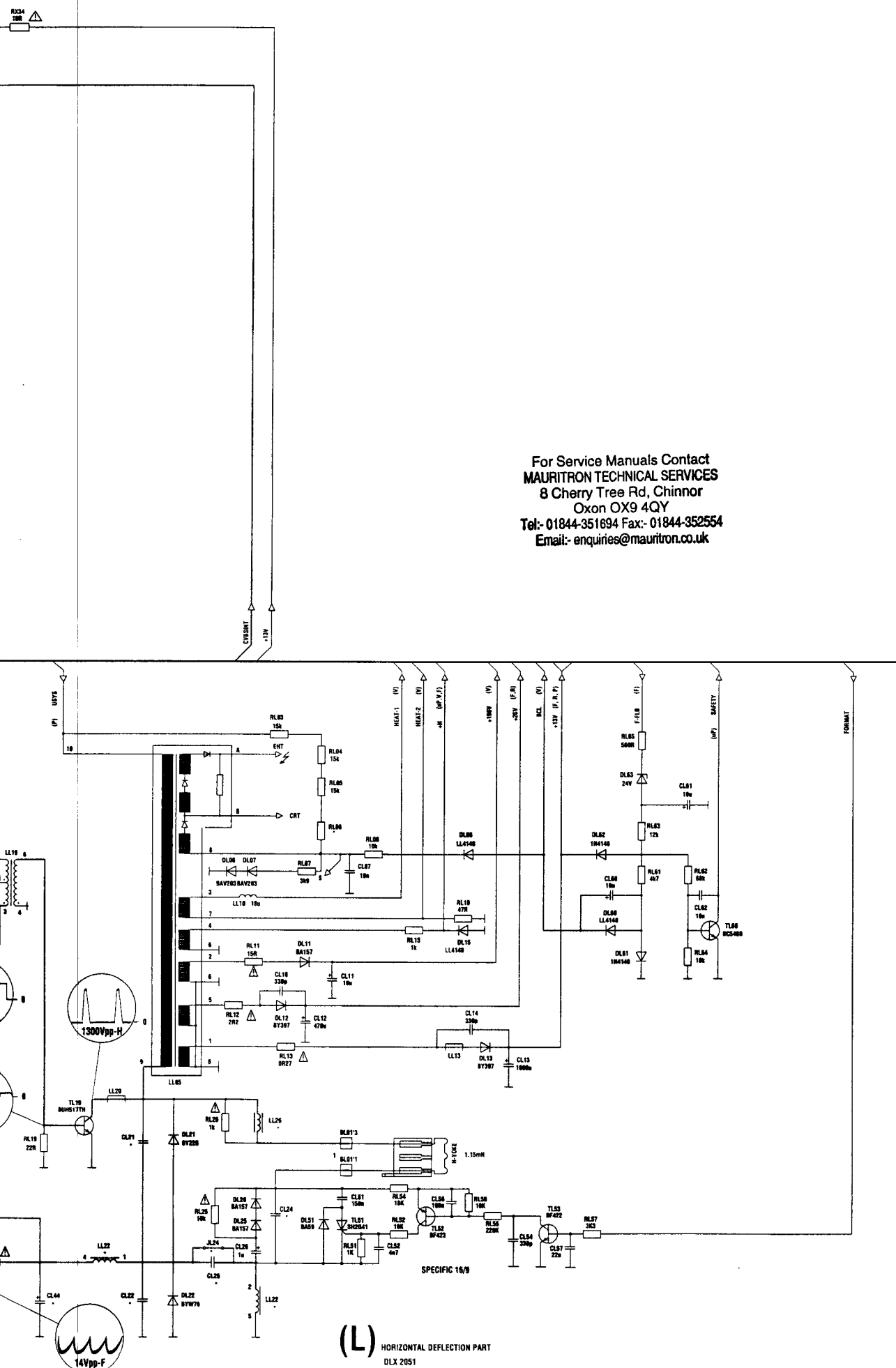
Tube	CL24	CL25	CL44	RL41	RL42	RL43	RL44
AsxEAS	510n	JL24	2x7	15k	4k99	24k9	2k74
AsxEYC	600n	1u5	4u7	15k	4k99	24k9	2k74



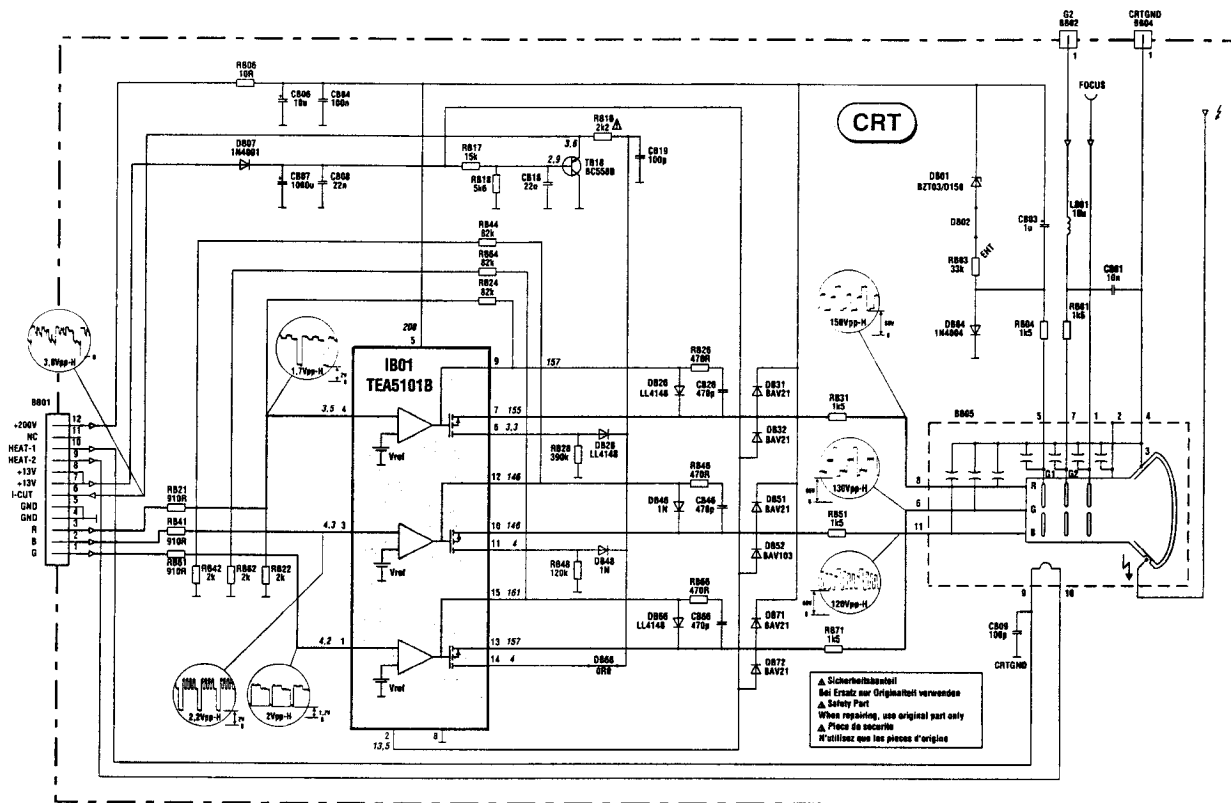
(SC) SCART PART
 SCX 2110



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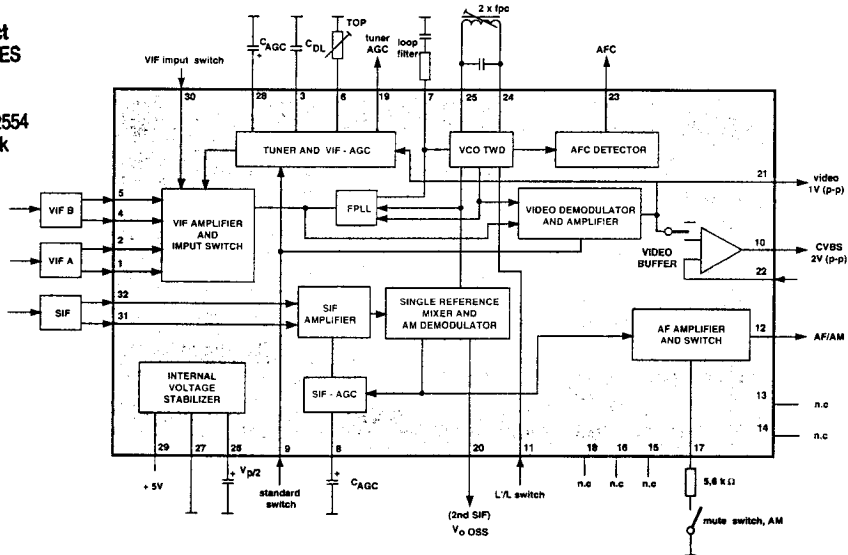


**VIDEO AMPLIFIER - AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKER -
AMPLIFICATORE VIDEO - AMPLIFICADOR VIDEO**

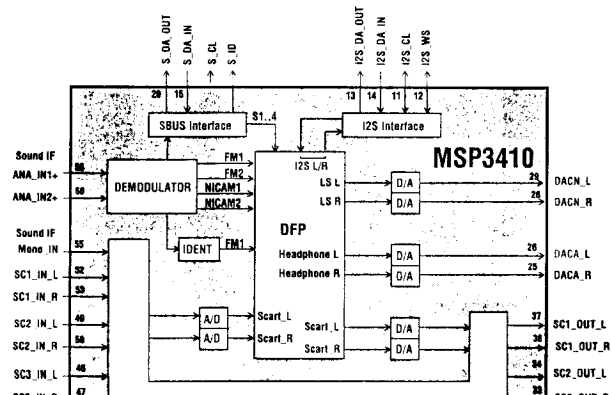


TDA9811 BLOCK DIAGRAM
MULTISTANDARD VIF - PLL WITH QSS-IF AND AM DEMODULATOR

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MSP3400 / MSP3410 BLOCK DIAGRAM SOUNDPROCESSOR



COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1	2	3
BB01	N2	
BB01*	N2	
BB02	R3	
BB02*	Q3	
BB04	R2	
BB04*	R1	
BB05	R1	
BF01	F10	
BF01*	F10	
BL01	B7	
BL01*	B7	
BM01	R9	
BM01*	R9	
BM02	R5	
BM02*	R5	
BM10	R4	
BM10*	Q4	
BM11	R6	
BM11*	R6	
BP01	G1	
BP01*	G1	
BP02	C0	
BP02*	C0	
BP03	G2	
BP03*	G2	
BR01	H1	
BR01*	H1	
BR02	J0	
BS02	N8	
BS80	N7	
BS80*	N7	
BS90	N6	
BS90*	N6	
BV01	K4	
BV01*	K4	
BX01	K10	
BX01*	J1	
BX02	N10	
BX02*	N11	
BX03	N9	
BX03*	P10	
BX50	H11	



C124*	M8
CB01	R2
CB03	P2
CB04	P1
CB06	N2
CB07	N1
CB08*	P0
CB09	R1
CB18*	N0
CB19*	Q0
CB26*	P1
CB46*	Q0
CB66*	P1
CC01*	M5
CC02*	M4
CC03*	N5
CC04*	N4
CC05*	L3
CC06*	M3
CC07*	L3
CC10*	M3
CC11*	M2
CC12*	M2
CC13*	M2
CC14*	M2
CC15*	L3
CC16	M2
CC17	L3
CC18*	L2
CC19*	L4
CC20*	M5
CF02*	F10
CF05*	G11
CF06*	G11
CF11	E10
CF15	F9
CF21	E10
CF27	G11
CF28	G10
CF29	D11
CF30	E11
CF31	D10
CF32	E10
CF33	G9
CF34*	G10
CF37*	G10
CF39*	G10
CF41*	G10

CF42*	H11
CF43*	G11
CF44*	H11
CF45*	G10
CF47*	G10
CH01	J9
CH02	J8
CH03*	C8
CH04	G8
CH05	K3
CH06	J9
CH07	J9
CH08*	H10
CH09*	H10
CH10*	H10
CH11*	J10
CH12*	H10
CH13*	C8
CH14*	C8
CH15*	J10
CH19	K3
CH20*	C8
CI01*	C8
CI02*	C8
CI04*	H7
CI05*	H6
CI06*	H6
CI07*	H7
CI08*	H7
CI09*	H6
CI10*	H7
CI11*	K5
CI12	L5
CI13*	K6
CI14	K6
CI140*	H7
CI15	L6
CI16*	K8
CI17	L6
CI18	J8
CI19	L7
CI20	K5
CI21*	K6
CI22	L8
CI23*	L6
CI25*	J7
CI26	K8
CI27*	H7
CI28*	K7
CI29*	J8
CI30*	K6
CI31*	L8
CI32	L7
CI33*	K6
CI34*	L8
CI36*	L6
CI37*	J7
CI41*	J7
CI52*	J7
CI53*	J7
CI54	J7
CI59*	P5
CI60*	P5
CI61	P5
CI70*	L7
CI71*	L6
CI72*	L6
CL07	D10
CL10	E9
CL11	G7
CL12	F8
CL13	F8
CL14	F8
CL16	G8
CL21	B9
CL22	A10
CL24	B8
CL25	B10
CL26	C7
CL30	C6
CL32	A6
CL33	A7
CL38	B6
CL41	D11
CL42*	C11
CL43	B11
CL44	C11
CL51	C6
CL52	D5
CL54	E7
CL56	D6
CL57	E7
CL60	F6
CL61	G7
CL62*	F7
CM01	R7
CM10*	R4
CM11*	R4

CP01	F0
CP02	F2
CP03	F2
CP06*	C1
CP07	D0
CP08	D1
CP09	D0
CP10	A0
CP11	D2
CP11*	C2
CP12	E2
CP13	A1
CP14	A1
CP17	A2
CP21	B2
CP22	C1
CP24	B1
CP25	B0
CP26	A1
CP29	C1
CP31	D1
CP32*	E3
CP33	D1
CP36	B0
CP37	C0
CP38	C0
CP40	E3
CP41*	E3
CP45	C1
CP48	A0
CP49	D4
CP51	A5
CP52	C6
CP53	C5
CP54	D4
CP57	D5
CP58*	D4
CP59	C5
CP71	G5
CP72*	G5
CP74	G5
CP76	G4
CP96*	F5
CR01*	H0
CR02*	J1
CR03*	H0
CR04*	H2
CR05*	L1
CR06*	L1
CR07	L1
CR08*	H2
CR09*	J2
CR11	H1
CR14*	K2
CR15*	K2
CR17*	J2
CR18*	L2
CR19*	L2
CR20*	L3
CR22*	H1
CR23*	H1
CR24*	J1
CR33*	K2
CS08	N8
CS76	N8
CS78	P8
CS80*	P7
CS81*	P8
CS82	P6
CS84	P7
CS85	P6
CS88	P8
CS90	N7
CS92*	N7
CS94*	P7
CT01	J0
CT02*	H0
CT03*	H0
CT04	J0
CT05*	J0
CT06*	K0
CT07*	K0
CT08*	K0
CT09*	L0
CT10*	L1
CT11*	L0
CT12	L1
CT13*	L0
CV02	M4
CV03*	M4
CV04*	N3
CV05*	N5
CV06*	N5
CV07*	P5
CV09*	P5
CV10*	N4
CV11*	P4
CV12*	P4

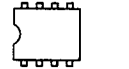
CV13	P3
CV15*	P4
CV17*	P4
CV18*	N5
CV19*	N4
CV20*	M4
CV21*	P4
CV22*	P4
CV23*	P4
CV24*	N5
CV25*	M4
CV26	N3
CV27*	N4
CV28*	N4
CV29	P3
CV41*	K4
CV42*	L3
CV43*	L3
CX01*	J1
CX01*	P10
CX02*	M11
CX06	J9
CX07	M10
CX08	J10
CX09	M10
CX11	P10
CX12	L9
CX13	P9
CX14*	L9
CX15*	P11
CX16*	M10
CX17*	J10
CX18*	N10
CX19*	N9
CX20*	L10
CX21*	M10
CX22*	M9
CX23	L10
CX24	N10
CX27	L11
CX30	P9
CX31	N9
CX32*	N9
CX33*	K10
CX34*	N10
CX35*	M9
CX36*	J9
CX37*	N10
CX38	K10
CX39*	M10
CX41	M9
CX42	M9
CX43	L9



DB01	P2
DB02	Q2
DB04	N2
DB07	N0
DB26*	P1
DB28*	N0
DB31*	P1
DB32	P1
DB46*	Q0
DB48	Q0
DB51*	Q0
DB52*	Q0
DB66*	P1
DB68*	R0
DB71*	P2
DB72*	Q1
DF01	F10
DF02*	F10
DF07*	E10
DF11	F10
DF11*	F11
DF30*	F11
DF31	E11
DF38*	F9
DF39*	G10
DF41	L4
DF45*	G10
DH01	G8
DH02	J8
DI01*	J6
DI02*	H6
DI26*	J9
DI34*	M6
DI50*	J7
DI51*	H6
DI52*	J7
DL06*	C10
DL07*	C10
DL08*	D7
DL11	G8

DL12	E8
DL13	E7
DL15*	G8
DL21	B10
DL22	A10
DL25	D6
DL26	D6
DL34*	A7
DL38	B6
DL41	D11
DL51	C6
DL60*	F6
DL61	F7
DL62	F6
DL62	F7
DL63	J10
DM01	Q7
DM01*	Q7
DM02	R10
DM03	R9
DP06	E0
DP06*	E0
DP07	E0
DP07*	D0
DP08	E0
DP08*	E0
DP09	D0
DP09*	D0
DP13	B2
DP16	B1
DP17	A3
DP21	B2
DP22	C1
DP23*	B1
DP24	B2
DP32*	C1
DP40	D2
DP41	E3
DP44	C1
DP45*	B1
DP50	A5
DP51	A5
DP53	C5
DP54	C5
DP55	E5
DP56	E5
DP60*	F4
DP61*	F4
DP82	H4
DR03*	H3
DT01*	L1
DT02*	L1
DT03*	L1
DT04*	M1
DV03	K5

FI01	H7
FI02	K7
FP01	F0
FP02	E3
FR24*	F10



IB01	N0
IB01*	N0
IC01	M2
IC01*	M2
IF01*	F11
IF02	G10
IF02*	G10
II01	J7
II02	L6
IP01	B0
IP01*	B1
IP50	D5
IP50*	D5
IP60	E3
IP60*	E4
IP70	H5
IR01	J1
IR02	L2
IR02*	L2
IS85	P8
IS85*	Q7
IT01	M1
IT01*	L0
JP09	F5
JP10	E1
JP10*	E1
JP10*	E1



JB01	P0
JB50*	N1
JB51*	N0
JB52*	N1
JC01	L3
JF01	F11
JF01	G11
JF02	E9
JF04	E10
JF05	G9
JF06	G8
JF50*	G11
JF51*	G11
JF52*	F11
JF53*	F11
JH01	J8
JH02	H8
JH50*	K3
JH55*	C8
JH56*	H11
JI01	M5
JI02	K5
JI03	K5
JI04	K6
JI05	J6
JI06	K7
JI07	L5
JI08	L7
JI09	L7
JI10	M6
JI11	K5
JI12	M8
JI13	M8
JI15	K8
JI16	L5
JI17	L8
JI18	K8
JI19	K7
JI50*	J5
JI51*	H6
JI52*	J6
JI53*	J6
JI54*	J6
JI55*	J7
JI56*	L6
JI57*	L6
JI58*	L7
JI59*	K8
JI60*	J9
JI61*	L8
JI62*	J6
JI63*	J6
JI64*	L7
JI65*	N5
JI66*	K7
JI67*	L6
JI68*	K7
JI69*	K7
JI70*	L7
JL01	C10
JL02	C9
JL03	D9
JL07	B11
JL08	A8
JL10	C5
JL11	B8
JL12	E7
JL13	F7
JL14	C7
JL15	F6
JL16	F6
JL17	G6
JL18	G6
JL19	G6
JL20	C7
JL20*	C7
JL21	G7
JL24	B10
JL51*	B4
JL52*	B4
JL52*	C9
JL53*	B4
JL55*	G6
JL56*	E6
JM01	Q9
JM02	Q9
JM05	R8
JP01	F3
JP02	D2
JP03	D2
JP04	D2
JP05	E3
JP07	C2
JP09	F5
JP10	E1
JP10*	E1
JP10*	E1

JP15	H4
JP16	H4
JP17	H4
JP18	H4
JP19	H5
JP22	F5
JP24	H4
JP27	E1
JP28	G4
JP29	E5
JP30	D5
JP31	H3
JP35	E4
JP51*	C1
JP53*	B0
JP55*	D5
JP56*	C2
JP57*	D3
JP60*	F4
JR01	H2
JR02	H2
JR08	H4
JR53*	L2
JR54*	L1
JR55*	L1
JR57*	M1
JS03	N6
JS05	P6
JS08	P7
JS09	N6
JS14	M8
JS52*	N7
JS70*	N11
JT03	H3
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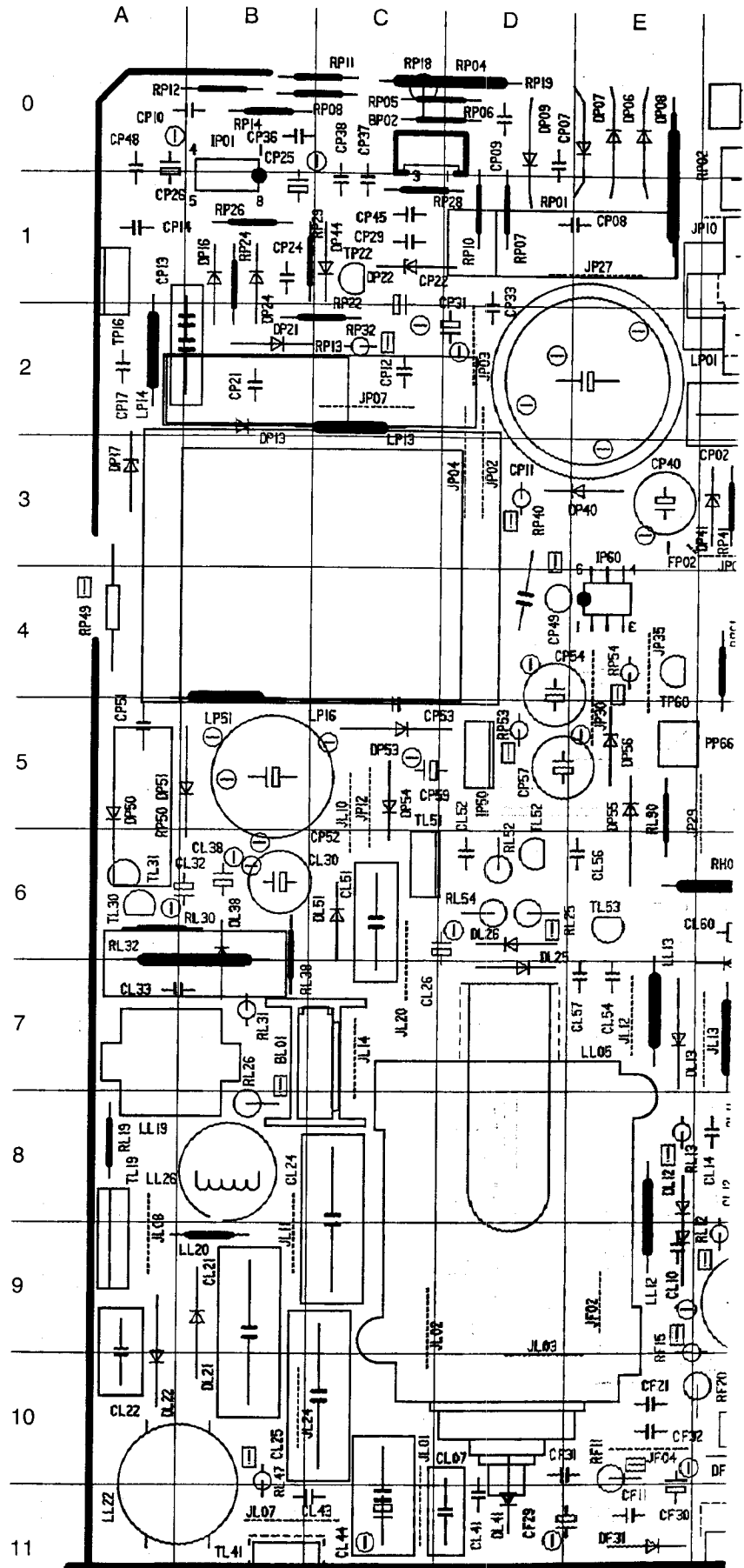
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MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNT

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE -

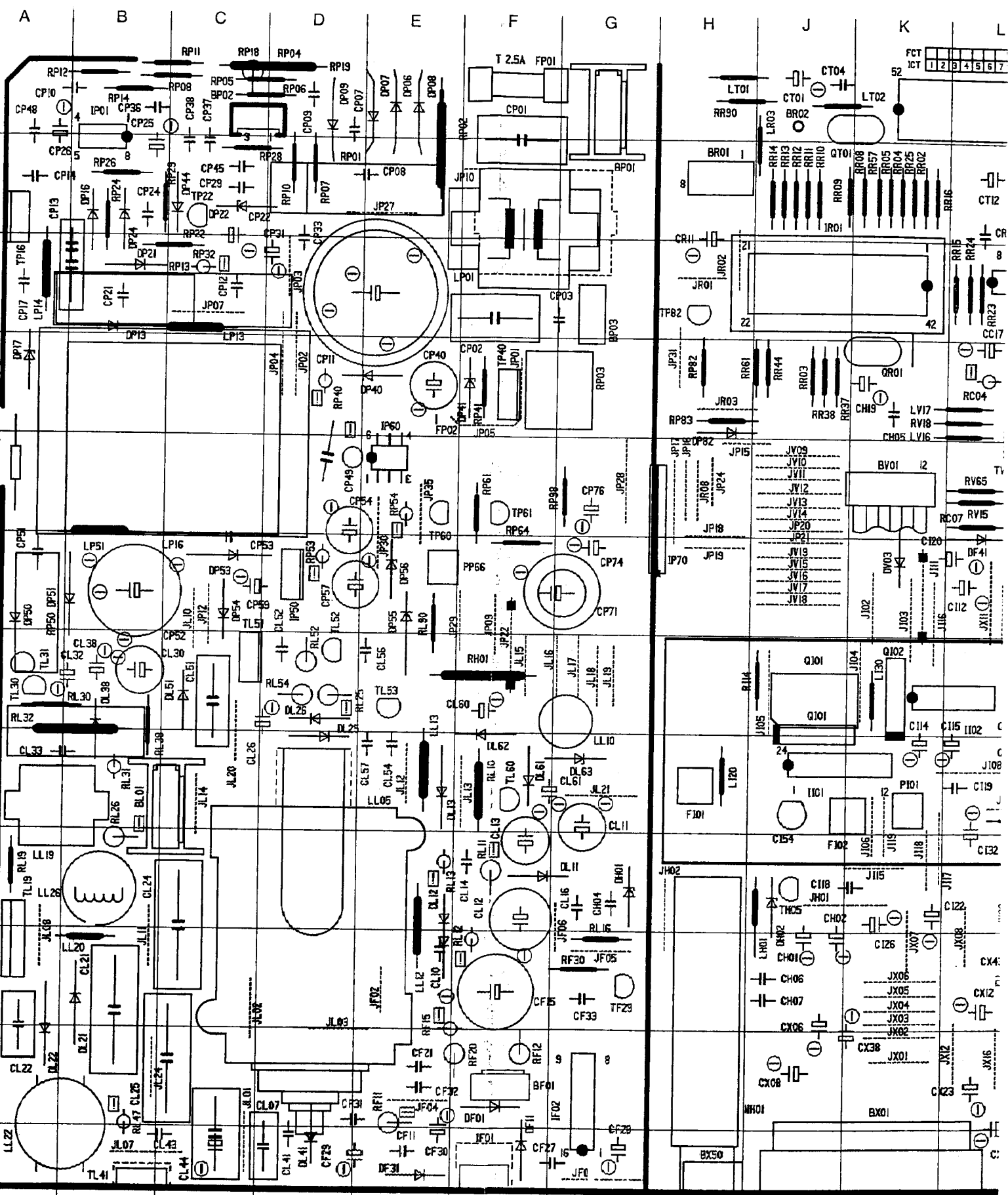
RC06*	M5	RL35*	B6	RR11	J1	RX16*	J10
RC07	L4	RL36*	B6	RR12	J1	RX17*	J10
RC20*	L4	RL37*	B6	RR13	J1	RX18*	M10
RF03*	D10	RL38	B7	RR14	L1	RX19*	M11
RF04*	G11	RL41*	D11	RR15	L2	RX21*	M10
RF06*	F9	RL42*	G11	RR16	K1	RX22*	M10
RF07*	E10	RL43*	C11	RR17*	J1	RX23*	N10
RF09*	F11	RL44*	C11	RR18*	J1	RX24*	H11
RF11	E10	RL46*	B11	RR19*	J1	RX26*	H11
RF12	F10	RL47	B10	RR20*	J1	RX27*	P10
RF15	E9	RL48*	C11	RR21*	L2	RX28*	P10
RF20	F10	RL51*	C6	RR22*	L2	RX29*	P11
RF23*	F10	RL52	D6	RR23	L2	RX31*	P10
RF25*	G10	RL54	D6	RR24	L2	RX32*	P11
RF29*	G10	RL55*	E6	RR25	K1	RX33	N10
RF30	G9	RL56*	D6	RR27*	J1	RX34	M10
RF33*	G10	RL57*	E6	RR29*	K2	RX37*	L11
RF36*	F10	RL61*	F7	RR30*	L2	RX38*	L11
RF37*	G10	RL62*	F7	RR32*	K3	RX40*	N8
RF38*	F10	RL63*	F7	RR33*	K2	RX41	N8
RF38*	F10	RL64*	F7	RR35*	J3	RX42*	K10
RF41*	K5	RL65*	G8	RR36*	J3	RX43*	N10
RF42*	G10	RL90	E5	RR37	J3	RX44	M8
RF43*	G11	RM01	R7	RR38	J2	RX45*	P9
RH01	F6	RM02	R9	RR39*	J3	RX46	M8
RH04*	J3	RM03	R9	RR40*	J2	RX47*	M9
RH05*	K3	RM04	R10	RR41*	J2	RX48*	M10
RH06*	C9	RM05	R10	RR42*	J3	RX51*	M9
RH07*	C9	RM06	R9	RR43*	J3	RX52*	L9
RH09*	K3	RM10	R6	RR44	J3	RX53*	L9
RH10*	G8	RM11	R8	RR45*	H2	RX54*	L9
RH13*	H10	RP01	D1	RR46*	H3		
RH14*	C9	RP02	E0	RR47*	J3		
RH15*	H10	RP03	G3	RR48*	H3		
RH16*	C8	RP03*	G3	RR49*	J2		
RH17*	C9	RP04	D0	RR50*	K2		
RH19*	G6	RP05	C0	RR52*	H1		
RI02*	H6	RP06	D0	RR53*	H1		
RI03*	C8	RP07	D1	RR54*	H1		
RI04*	C8	RP08	C0	RR55*	J1		
RI05*	H7	RP09*	A0	RR56*	H0		
RI06*	H7	RP10	D1	RR57	K1		
RI07*	H7	RP11	C0	RR58*	K2		
RI08*	H7	RP12	A0	RR59*	K2		
RI09*	H7	RP13	C2	RR61	J3		
RI10*	C8	RP14	B0	RR62*	H3		
RI11*	H6	RP15*	A1	RR70*	J2		
RI12*	J6	RP16*	B1	RR71*	J2		
RI13*	J6	RP17*	A3	RS90	H0		
RI14	J6	RP18	C0	RS15	H8		
RI16*	L7	RP19	D0	RS16*	N8		
RI17*	L6	RP22	C1	RS75*	P8		
RI20*	J8	RP24	B1	RS76*	N8		
RI21*	J8	RP26	B1	RS77*	P8		
RI22*	J9	RP28	C1	RS78*	P9		
RI23*	J8	RP29	B1	RS80*	P7		
RI24*	J3	RP30*	B1	RS81*	N7		
RI25*	J7	RP31*	D3	RS82*	P6		
RI26*	J9	RP32	C2	RS84	P7		
RI27*	M7	RP33*	D1	RS86*	P7		
RI29*	M7	RP34*	C0	RS88	P8		
RI30*	J9	RP36*	C0	RS90*	P6		
RI31*	M7	RP38*	C0	RS91*	P6		
RI32*	M6	RP40	D2	RS92*	P6		
RI33	M6	RP40*	F3	RS93*	P6		
RI33*	L6	RP41	F3	RS94	N6		
RI35*	M6	RP42*	F3	RS95*	O6		
RI36*	L6	RP44*	C2	RT01*	J0		
RI38	M6	RP45*	C1	RT02*	L0		
RI40*	L8	RP47*	C1	RT04*	K1		
RI41*	L7	RP48*	C1	RT05*	M0		
RI42*	K9	RP49	A4	RT06*	M0		
RI47*	M6	RP50	A5	RT07*	M1		
RI48*	J6	RP52*	D4	RT08*	M1		
RI49*	H6	RP53	D5	RT09*	L0		
RI50*	J6	RP54	E4	RV15	L4		
RI51*	H6	RP60*	E4	RV16	M3		
RI52*	H6	RP61	F4	RV17	M3		
RI53*	L8	RP62*	F4	RV18	K3		
RI56*	K8	RP63*	F5	RV23*	N5		
RI58*	K8	RP64	F5	RV24*	N5		
RI60*	P5	RP65*	E4	RV25*	L4		
RI61*	P5	RP66*	E5	RV28*	N4		
RI62*	P5	RP67*	E5	RV29*	N3		
RL03*	D8	RP74*	H4	RV30	M4		
RL04*	D8	RP76*	G4	RV31*	G6		
RL05*	D8	RP77*	G4	RV33*	N4		
RL06*	D8	RP78*	G4	RV35*	K4		
RL07*	C9	RP82	H3	RV62*	L4		
RL08*	D9	RP83	H3	RV63*	L4		
RL10	F7	RP91*	F4	RV64	L4		
RL11	F8	RP92*	G5	RV65	L4		
RL12	F9	RP97*	G4	RX01*	K10		
RL13	E8	RP98	G4	RX02*	J10		
RL15*	E9	RR01*	H1	RX03*	K10		
RL16	G8	RR02	K1	RX04*	K10		
RL19	A8	RR03	J3	RX06*	K11		
RL25	D6	RR04	K1	RX07*	K11		
RL26	B7	RR05	K1	RX08*	K11		
RL30	B6	RR06*	L2	RX09*	K10		
RL31	B7	RR07*	L1	RX11*	K11		
RL32	A6	RR08	K1	RX12*	J1		
RL33*	A6	RR09	J1	RX13*	J10		
RL34*	B6	RR10	J1	RX14*	J10		

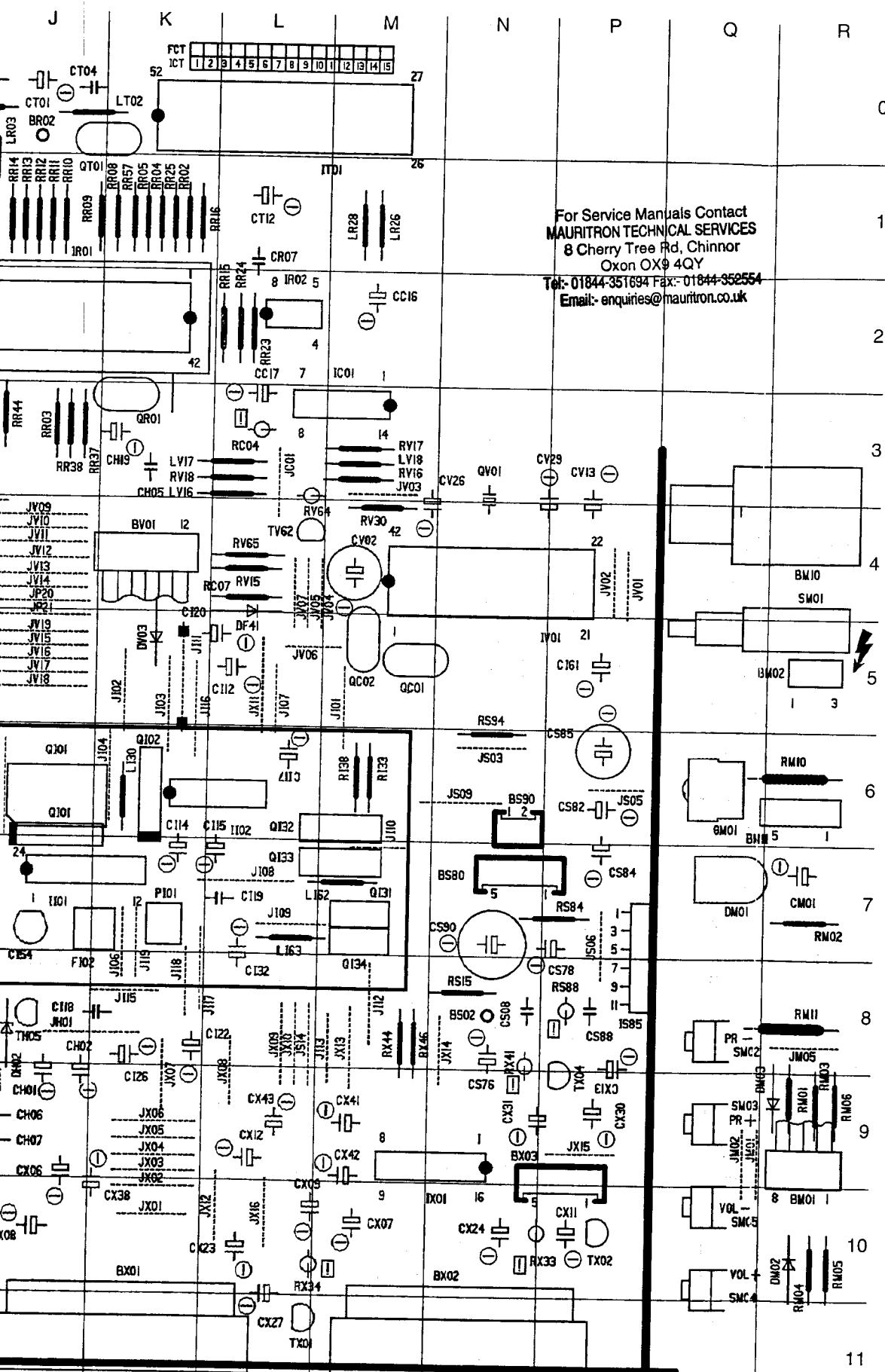
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TF29*	G10
TH01*	K3
TH02*	C9
TH03*	H10
TH04*	H10
TH05	J8
TH05*	J8
TI01*	C8
TI03*	H6
TI04*	H6
TI12*	H6
TI28*	L7
TI30*	M6
TI31*	L7
TI50*	H6
TL19	A8
TL19*	A9
TL30	A6
TL30*	A6
TL31	A6
TL31*	A6
TL41	B11
TL41*	B11
TL51	C5
TL51*	C8
TL52	D5
TL52*	D6
TL53	E6
TL53*	E6
TL60*	F7
TL80	F7
TP16	A2
TP16*	A1
TP22	C1
TP22*	C1
TP40	F3
TP48*	A0
TP60	E4
TP60*	E4
TP61	F4
TP61*	F4
TP82	H2
TP82*	H2
TP91*	G5
TP95*	F5
TP96*	F5
TR01*	J0
TR02*	H3
TS12*	N8
TS70*	P8
TS81*	P6
TS90*	N6
TV01*	M0
TV62	L4
TV62*	L4
TX01	M11
TX02	P10
TX02*	P10
TX03*	L9
TX04	P8
TX04*	P8

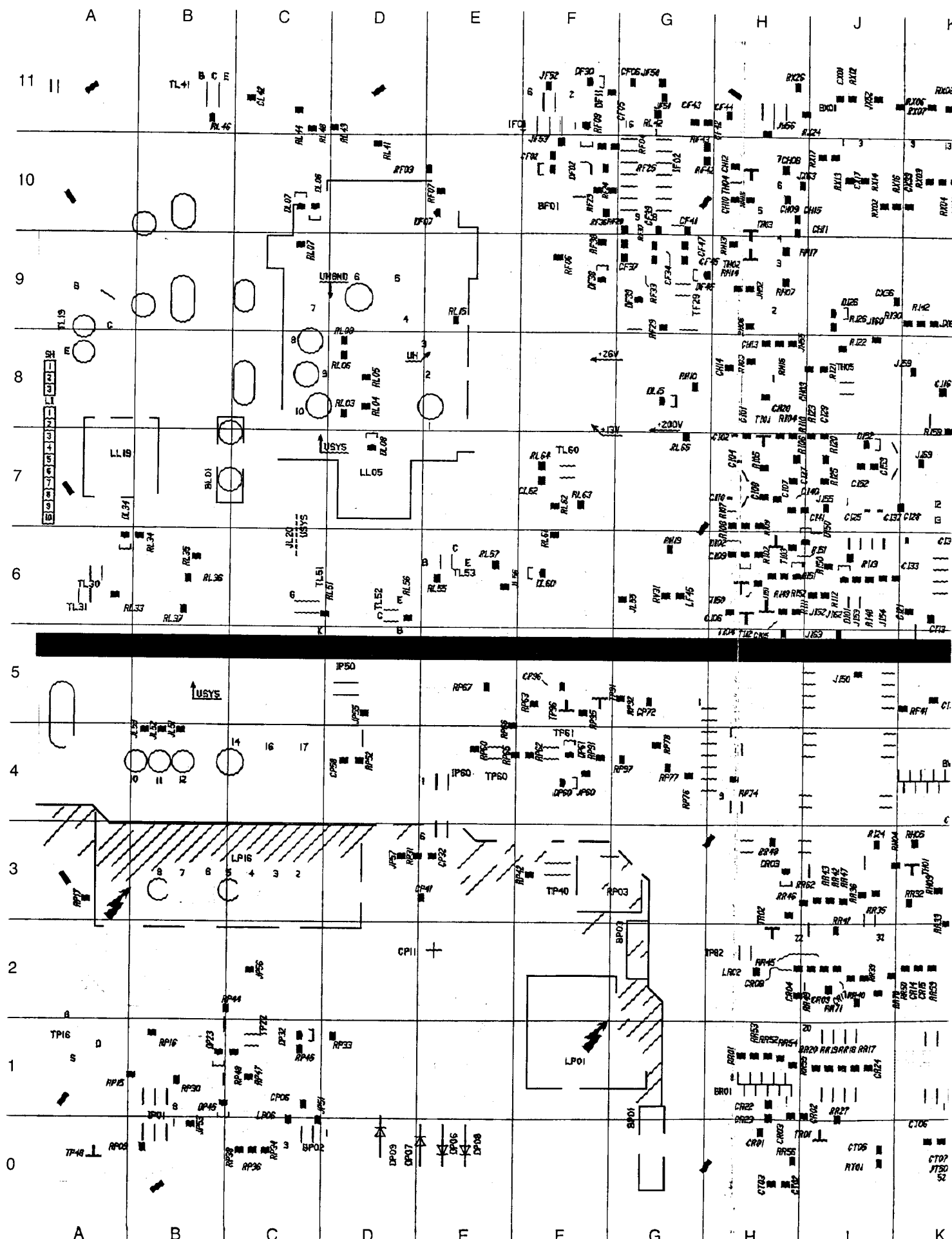


BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LATO COMPONENTES



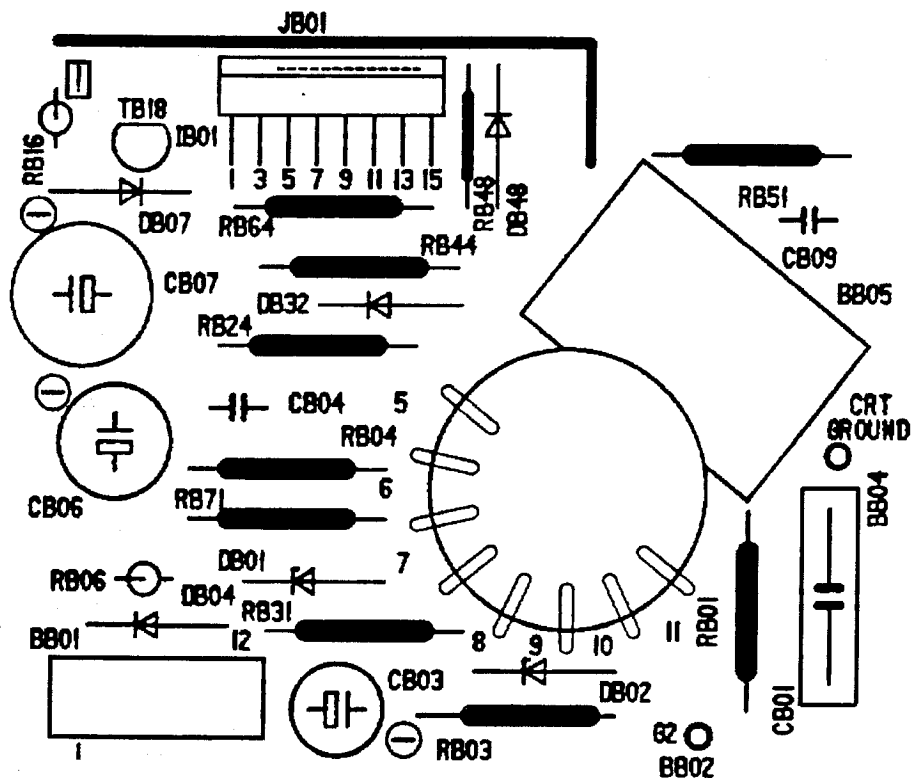




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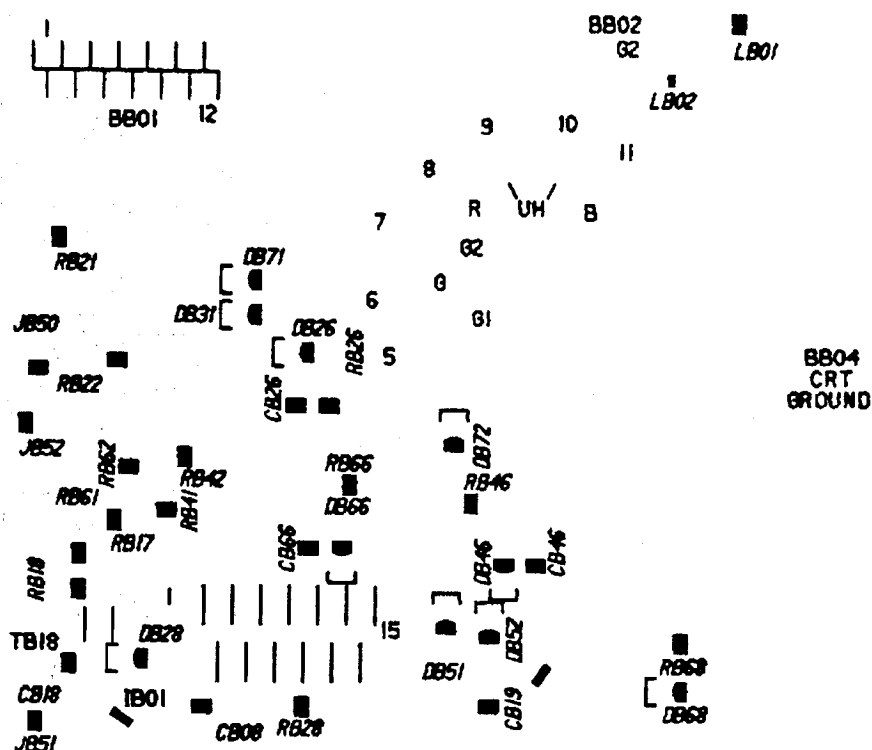
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATT
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTE

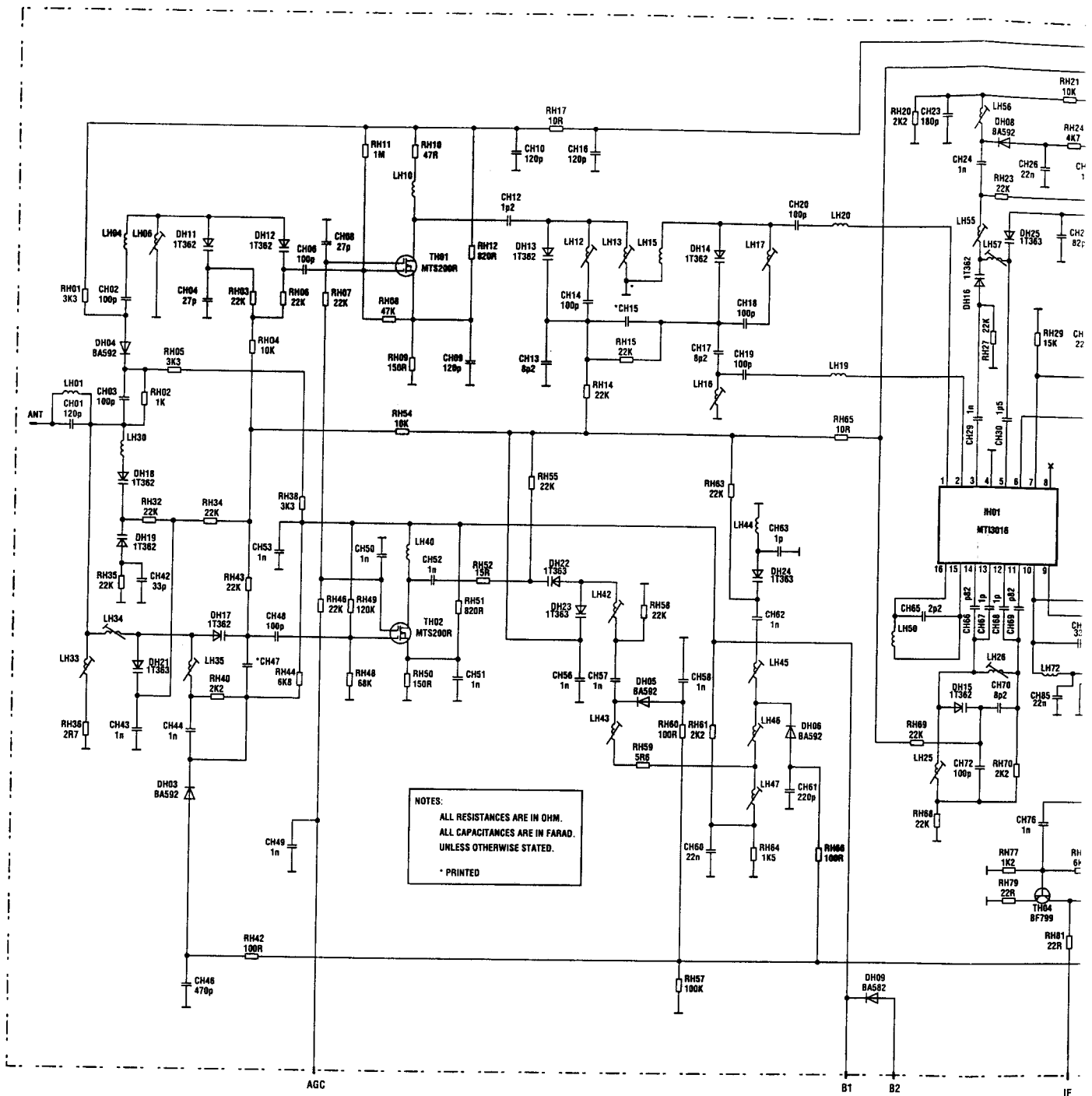


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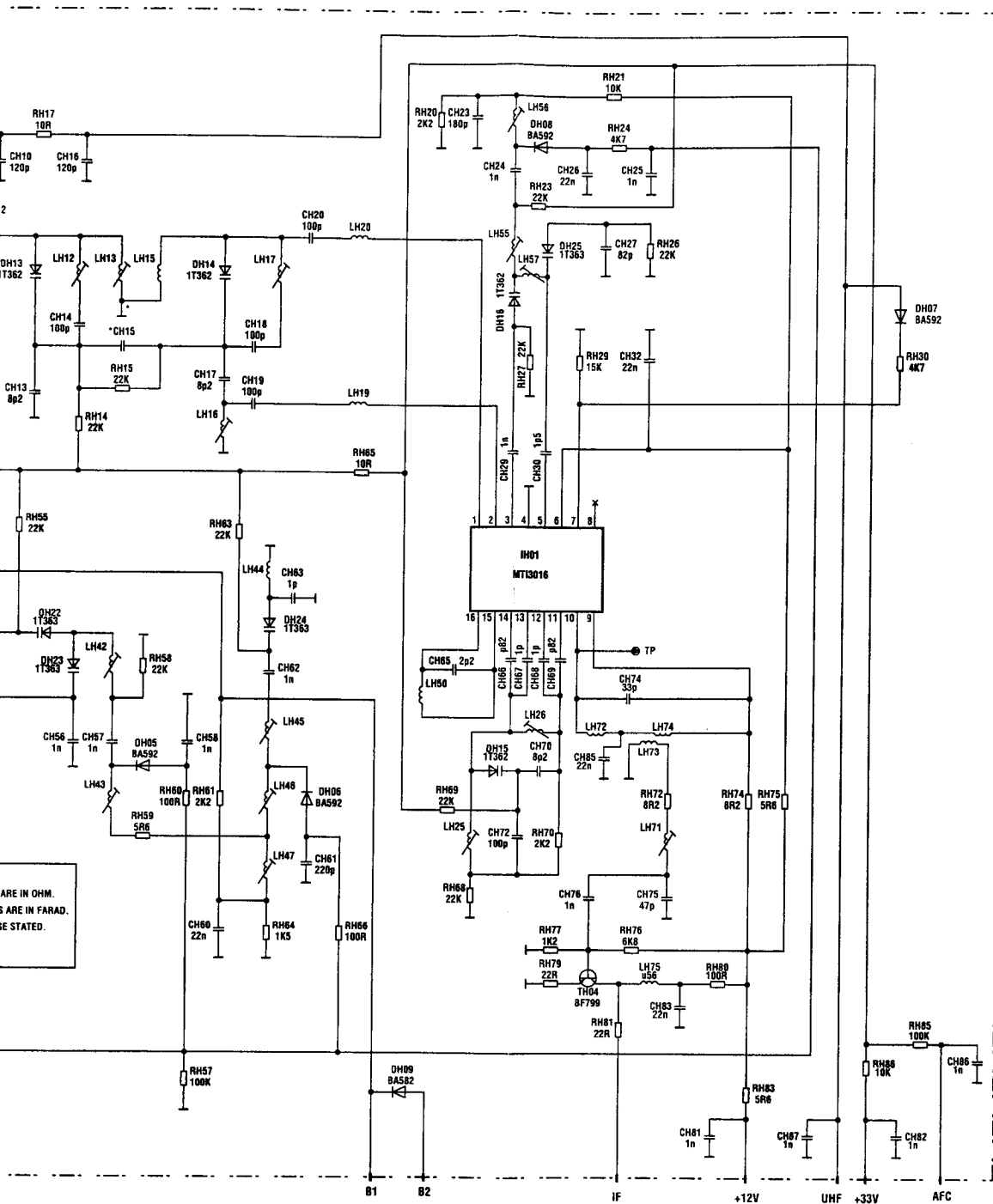
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



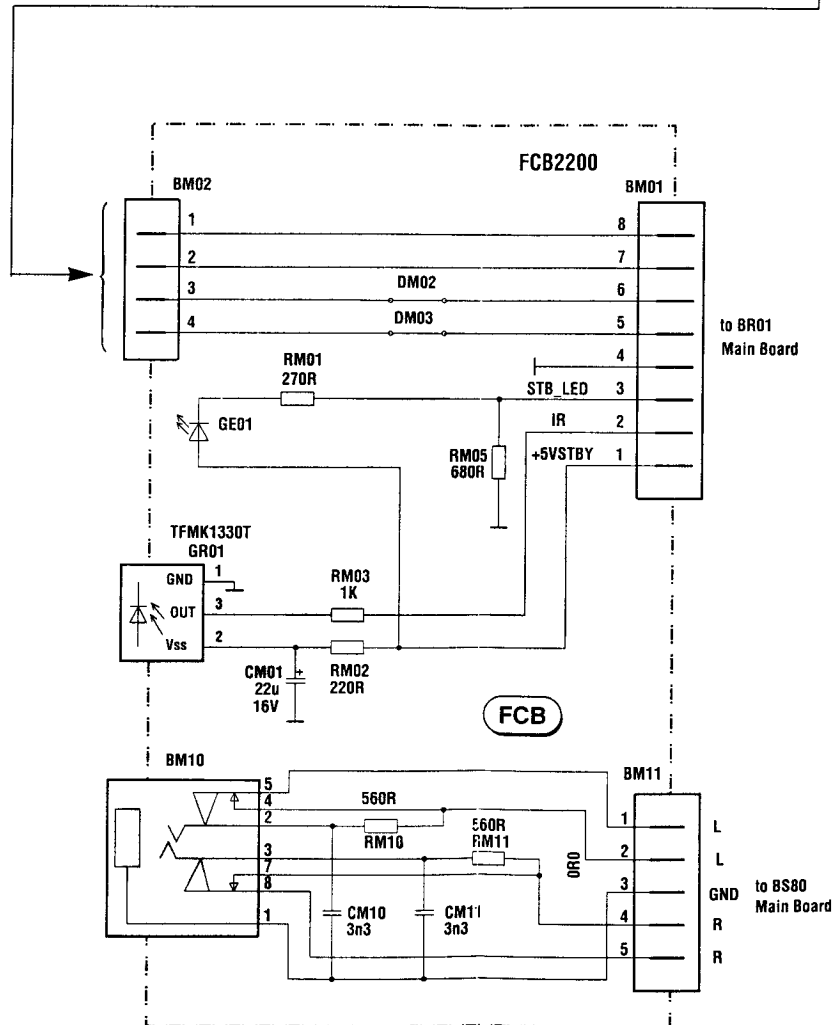
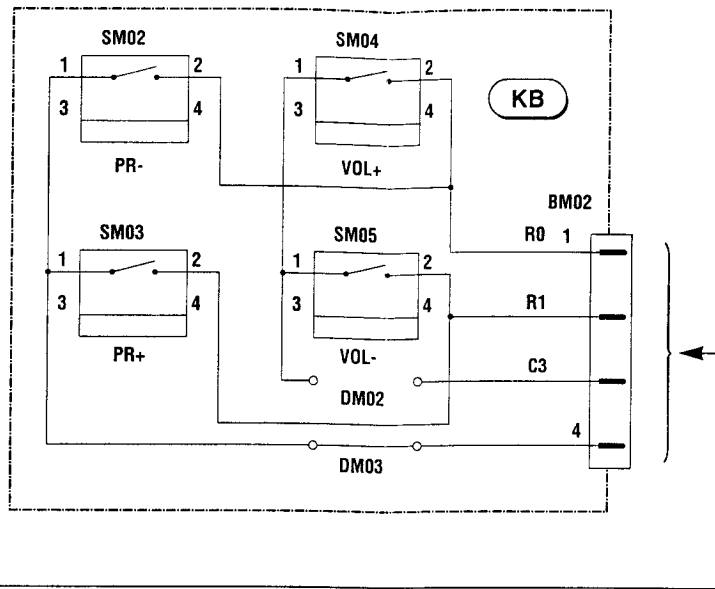
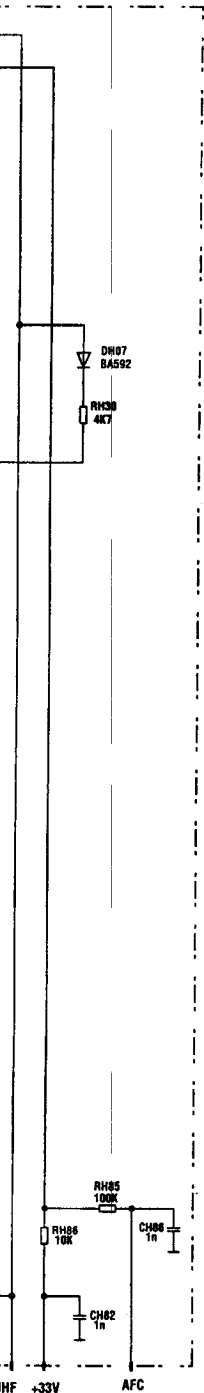
VHF / UHF TUNER MTM 4045 (For information only)



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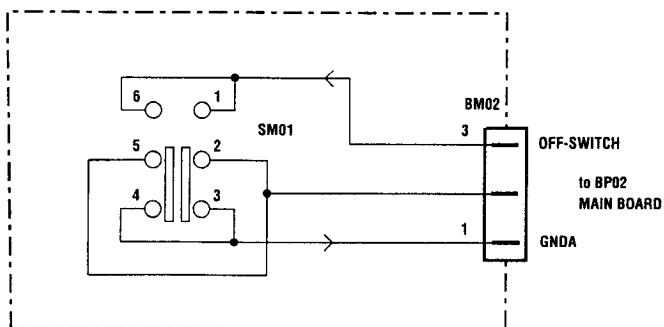
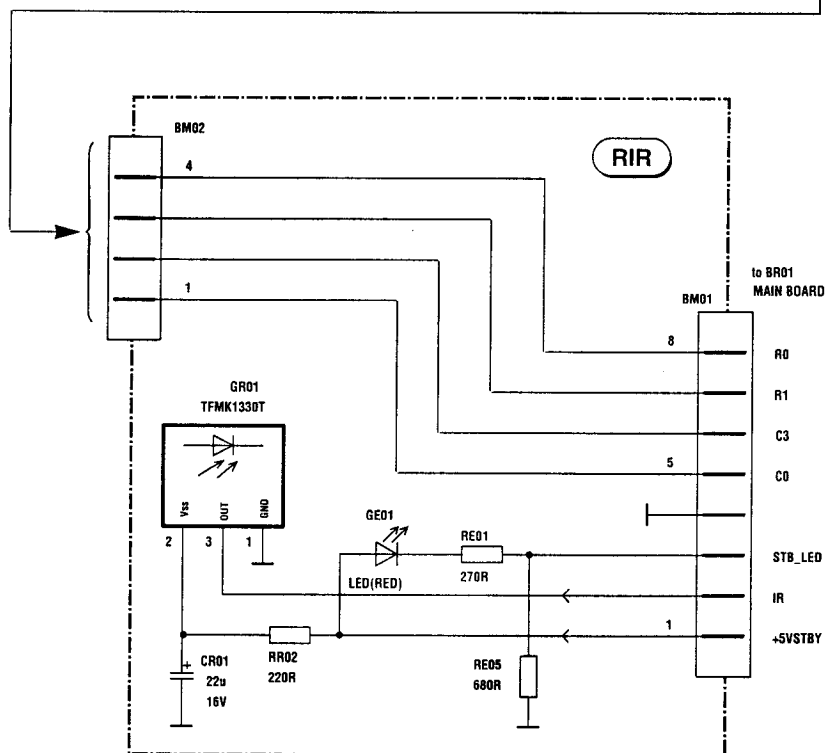
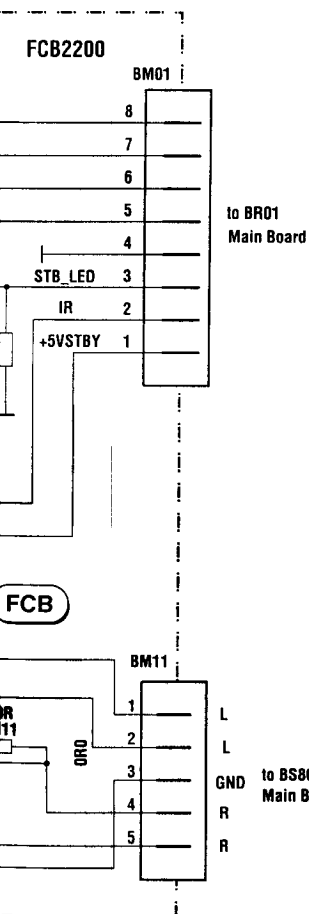
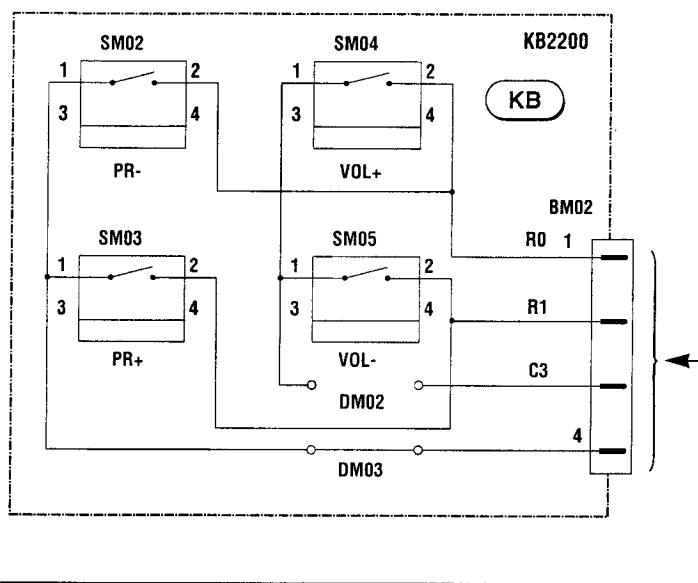
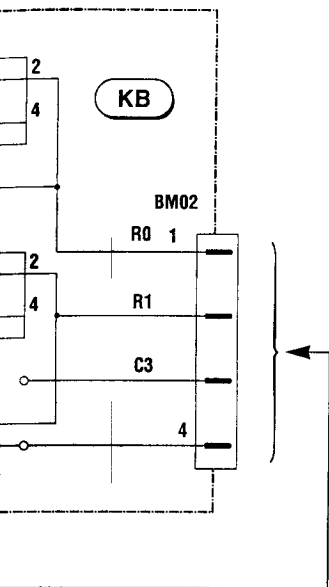


FRONT CONNECTOR BOARD - MODULE PRISE EN FACADE ET INTE PIASTRA CONNESSIONE FRONTALE - I



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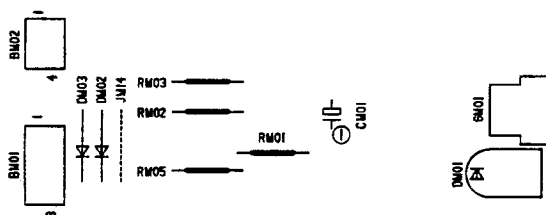
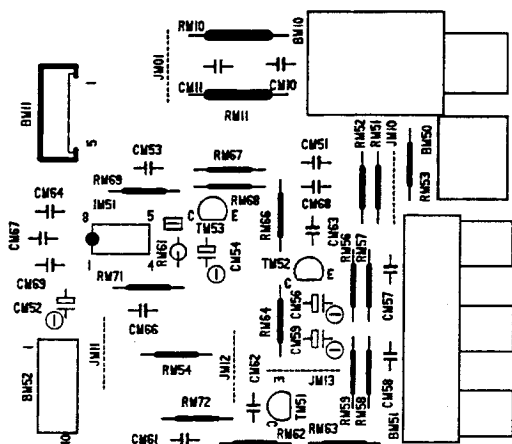
LE PRISE EN FACADE ET INTERCONNEXION DU CLAVIER - FRONTANSCHLUSSPLATTE - A CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL



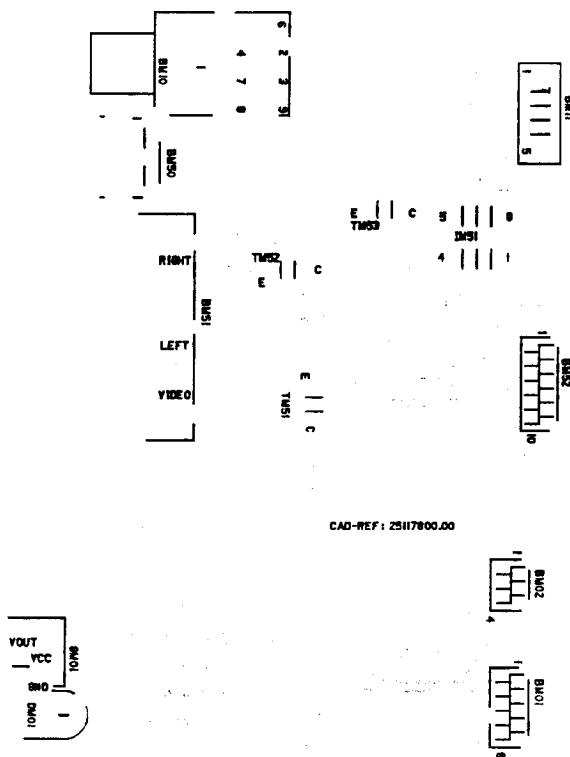
FRONT CONNECTOR BOARD - MODULE PRISE EN FACADE ET INTERCONNEXION DU CLAVIER
FRONTANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

FCB2200

COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



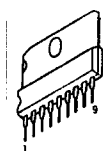
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



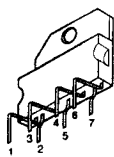
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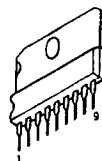
INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR CIRCUITOS INTEGRADOS Y TRANSISTORES



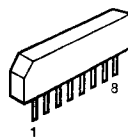
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TDA 8177



TEA 5101B



SDA 9187
SDA 9188



4N25TV



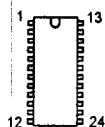
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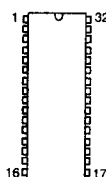
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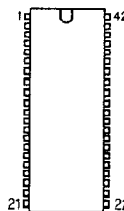
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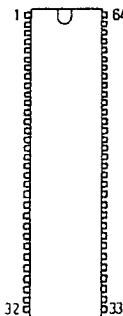
TDA 7263



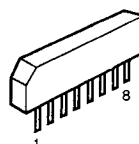
TDA9811



TDA9811



MPS3400
MPS3410



LA7221



BC 847B
BC 858 B/C
BC 848 A/B/C
BF 771



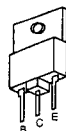
BF 422
BF423



BC 337
BC 548B
BC 558B



BP 681



BUH 517 TH



7805
7812



BT806 -600C



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