

GOODMANS

Mod.2580

MODEL

SERVICE MANUAL

NORDMENDE
THOMSON TECHNOLOGY

SABA

TELEFUNKEN

THOMSON

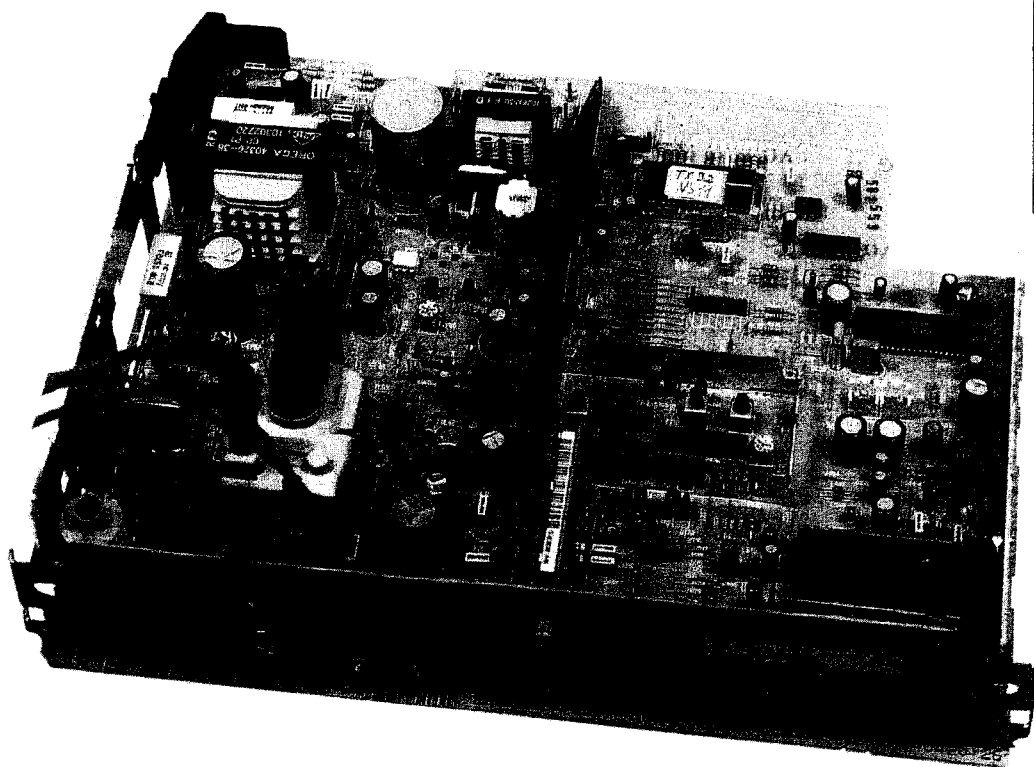


SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

TX92


TX 92 X Y Z 6A —


0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9





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.*


Code : 103.707.40 - 07/95

 Indicates specially selected or critical safety components and identical components should be used for their 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 entraîne 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 normgerechte 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 símbolo ) por componentes no homologados según 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

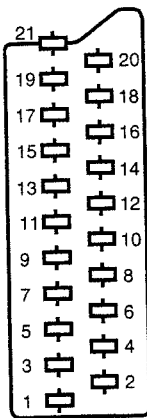
RECEIVER: UHF input level: 1 mV, test bar pattern:
- PAL, 1 standard, 100% white.
Scart input level: 1.00 Vpp, test bar pattern.
Programme PR 01.
Customer controls: Contrast, brightness and colour set at mid point and sound at minimum.
All DC voltages are measured with a digital meter between ground and the reference point.

RICEVITORE: In UHF, livello d'entrata 1 mV, monocoscio per barre:
- PAL, norma G, bianco 100%.
Per la presa SCART, livello d'entrata 1 Vcc, monocoscio per barre:
Colore, Contrasto, Luce a metà corsa, Suono minimo.
Programma designato PR 01.
Tensioni continue rilevate rispetto alla massa con un voltmetro numerico.

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.

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 relación a la masa con un voltímetro 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.

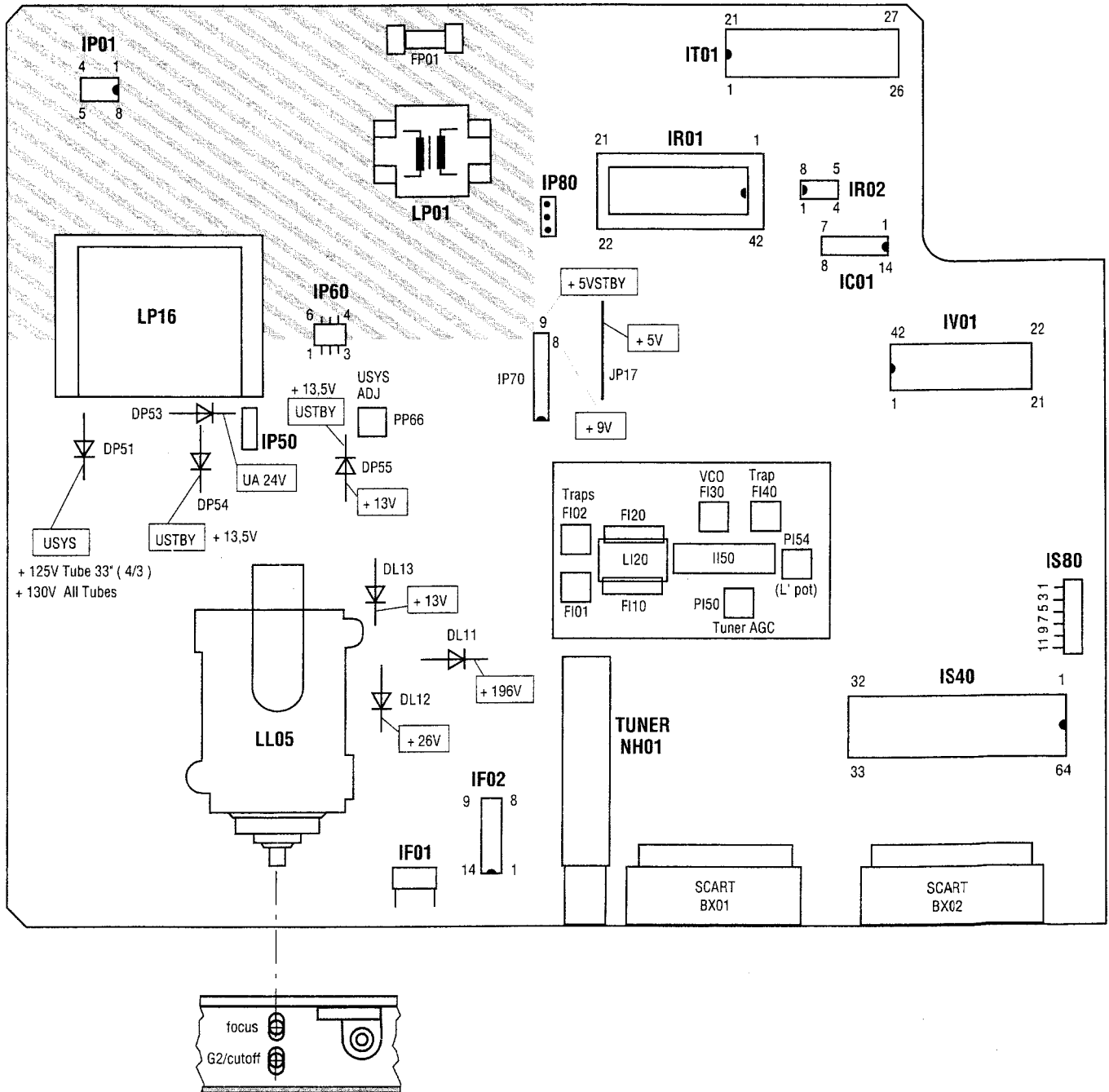
	ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1 	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2 	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3 	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4 	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5 	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6 	AUDIO "L" MONO	AUDIO "G" MONO	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 SINCRIO	VIDEO O SINCRIO
21 	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	ARMATURA DELLA SPINA	BLINDAJE DE LA ENCHUFE

 : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA

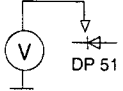
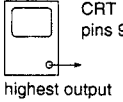


 : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA

 : EARTH - MASSE - MASSE - MASSA - MASA

**LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES -
SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO -
SITUACIÓN DE LOS AJUSTES**



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN REGOLAZIONE - AJUSTES

U Sys	PP 66	Contrast, brightness and volume to minimum		125V - Tube 33" (4/3) (A79 ECU 13x41) JL52 130V - all tubes tous tubes JL51																
U G2 / cutoff	SCREEN	AV (no Signal, black screen)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border-right: 1px solid black;">Tube type</td> <td style="width: 55%;">Cutoff</td> </tr> <tr> <td style="border-right: 1px solid black;">A51 ECN</td> <td>150V</td> </tr> <tr> <td style="border-right: 1px solid black;">AXX EAS</td> <td>150V</td> </tr> <tr> <td style="border-right: 1px solid black;">AXX ECY</td> <td>160V</td> </tr> <tr> <td style="border-right: 1px solid black;">A79 ECU</td> <td>160V</td> </tr> <tr> <td style="border-right: 1px solid black;">W56 EGX</td> <td>160V</td> </tr> <tr> <td style="border-right: 1px solid black;">W66 EDX</td> <td>160V</td> </tr> <tr> <td style="border-right: 1px solid black;">W76 EGC</td> <td>160V</td> </tr> </table>	Tube type	Cutoff	A51 ECN	150V	AXX EAS	150V	AXX ECY	160V	A79 ECU	160V	W56 EGX	160V	W66 EDX	160V	W76 EGC	160V
Tube type	Cutoff																			
A51 ECN	150V																			
AXX EAS	150V																			
AXX ECY	160V																			
A79 ECU	160V																			
W56 EGX	160V																			
W66 EDX	160V																			
W76 EGC	160V																			
FOCUS	FOCUS	 Test pattern (standard values)		Sharp picture																

SERVICE-MODE GB

MODE SERVICE F

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 Usystem, 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 right 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.

Le 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 apparait 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 péritélévision.

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 coté 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 en NVM.
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.

SERVICE-MODE



Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Systemspannung, Fokuseinstellung und Schirmgitterspannung).

1. Service-Mode einschalten

- 1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
- 1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
- 1.3 Die blaue Taste der Fernbedienung gedrückt halten und gleichzeitig das Gerät mit dem Netzschalter einschalten.
- 1.4 Das folgende Menü erscheint nach erneutem Drücken der blauen Taste

SET-UP	VIDEO	GEOM
TX92 WS11		Configuration

Attention : Der Service-Mode läßt sich nicht einschalten, wenn an einer Euro-AV-Buchse ein Gerät aktiviert ist, d.h. die Schaltspannung anliegt.

2. Funktionswahl oder Seitenwahl (GEOM)

Mit den Tasten +/- wird das entsprechende Menü gewählt, welches mit der blauen Taste "durchgeblättert wird" oder die ausgewählte Seite (1 oder 2).

3. Umschalten zwischen Service- und TV-Betrieb

Im Service-Mode sind die normalen Fernsehfunktionen nicht bedienbar. Werden diese im Service-Mode benötigt (z.B. Programmwechsel), kann mit der Taste (TV) in den normalen TV-Betrieb geschaltet werden. Durch Drücken der blauen Taste gelangt man zurück zum Service Mode.

4. Abgleich der gewählten Funktion und Speichern

Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugleichenden Position angegeben und kann mit der Taste + bzw. - auf der Fernbedienung verändert werden. Die Änderungen des jeweiligen Menüs können unter MEMO mit der + Taste gespeichert, bzw. unter R-STO(RE) rückgängig gemacht werden. Im Menüpunkt ROM kann man die Software-Defaultwerte laden. Sie sind aber nur eine grobe Annäherung an den noch vorzunehmenden Abgleich und sollten nur im Notfall verwendet werden. Im Service-Menü : Durch längeren Druck (mehr als 3 Sek.) wird das Gerät auf die im Werk eingestellten Werte zurückgesetzt.

5. Service-Mode verlassen

Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

MODO SERVICIO



Se necesita el MODO SERVICIO para ajustar el aparato. Todos los ajustes se hacen con el mando a distancia (a excepción de la tensión del sistema, los ajustes del foco y las tensiones de la rejilla de pantalla).

1. Ajustar el MODO SERVICIO

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- 1.3 Mantener pulsada la tecla azul y conectar el aparato simultáneamente con el interruptor de red.
- 1.4 El menú siguiente aparece volviendo a pulsar la tecla azul.

SET-UP	VIDEO	GEOM
TX92 WS11		Configuration

Atencion : No se puede conectar el MODO SERVICIO cuando en Eurotoma-AV está activado un aparato, es decir, cuando existe tensión de conexión.

2. Selección de las funciones o selección de página (GEOM)

Con las teclas +/- se selecciona el menú correspondiente que "hojea" con la tecla azul o la página seleccionada (1 o 2).

SERVICE-MODE



Il Service-Mode è necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (a parte la tensione del sistema, le regolazione del fuoco e le tensioni della griglia schermo).

1. Attivazione del Service-Mode

- 1.1 Commutare il televisore in stand-by con il telecomando.
- 1.2 Spegnerne l'apparecchio con l'interruttore di rete (attendere finché il LED è spento).
- 1.3 Tenere premuto il pulsante blu e accender e contemporaneamente l'apparecchio con l'interruttore di rete.
- 1.4 Il seguente menu appare non appena si aziona nuovamente il pulsante blu.

SET-UP	VIDEO	GEOM
TX92 WS11		Configuration

Attenzione : Il Service-Mode non si può attivare se è attivato un apparecchio collegato alla presa di peritelevisione AV, cioè se è presente la tensione ausiliaria.

2. Scelta della funzione o selezione pagina (GEOM).

Con i tasti +/- si seleziona il relativo menu che può "essere sfogliato" con il pulsante blu o selezionata la pagina 1 or 2.

3. Commutazione fra funzione Service-Mode e TV

Nella modalità Service-Mode non si possono attivare le normali funzioni televisive. Se occorre richiamarle in Service-Mode (ad es. se si vuole cambiare il programma), si può attivare la normale modalità TV con il pulsante (TV). Premendo il pulsante blu si riattiva il Service-Mode.

4. Taratura della funzione scelta e memorizzazione

Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alla posizione da allineare e può essere cambiato con il pulsante + o - del telecomando. Le modifiche effettuate nel relativo menu si possono memorizzare in MEMO con il pulsante + oppure annullare in R-STO(RE). Nell'opzione di menu ROM si possono caricare i valori di default del software. Essi rappresentano però una taratura approssimativa prima di eseguire quella definitiva e si dovrebbero usare solo in caso di emergenza. Mentre si è nel «Menu Service», una lunga pressione (più di 3s) del tasto «0» riporterà il TV alle «condizioni di default di fabbrica».

5. Disattivazione del Service-Mode

Per disattivare il ServiceMode, commutare l'apparecchio in stand-by o spegnerlo con l'interruttore di rete.

3. Conmutar entre funcionamiento Servicio y TV

En el MODO SERVICIO las funciones de televisión normales no pueden operarse. Si se necesitan éstas en MODO SERVICIO (p.ej., cambio de programa), con la tecla (TV) puede conmutarse a la operación TV normal. Pulsando la tecla azul se vuelve al MODO SERVICIO.

4. Ajuste de la función elegida y almacenamiento

El valor momentáneo de la función elegida es indicado de modo hexadecimal a la derecha, al lado de la posición a ajustar, y puede cambiarse con la tecla + o bien - en el mando a distancia. Los cambios del menú respectivo pueden almacenarse bajo MEMO con la tecla + o bien anular bajo RESTORE. En el punto de menú ROM se pueden cargar los valores por defecto del software. Sin embargo, son sólo una aproximación. Basta al ajuste aún a realizar y deben usarse sólo en caso de emergencia. En modo servicio, si se mantiene pulsada (más de 3 seg.) la tecla «0» toma por defecto los valores de «ajuste en fábrica».

5. Salir del MODO SERVICIO

Conmute el aparato a STANDBY a fin de salir del MODO SERVICIO o desconectar con el interruptor de la red.

TV mono :

SET-UP				
Software code and configuration				
BRAND	1	2	3	NONE
NORM	I	B	BD	BLD BIL
- R-STO		+ MEMO		O ROM

VIDEO			
R - DC	00 - 3F	24	
G - DC	00 - 3F	12	
R' - DRV	00 - 3F	1F	
G' - DRV	00 - 3F	1E	
B - DRV	00 - 3F	1C	
PEAK		(-/+)	
+ MEMO			
+ R - STORE		- ROM	

page 1

GEOM		
V - POS	00 - 1F	0F
V - AMP	00 - 7F	3F
V - LIN	00 - 0F	07
H - PHA	00 - 3F	1F
H - AMP	00 - 3F	20

TV stereo :

SET-UP				
Software code and configuration				
BRAND	1	2	3	NONE
NORM	I	B	BD	BLD BIL
DEC	PR4	On	OFF	

page 2

GEOM		
EW - TILT	00 - 1F	10
EW - AMP	00 - 1F	3F
EW - SHP	00 - 0F	07
STORE	(+)	
RESTORE	(+)	
ROM	(+)	

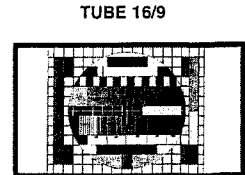
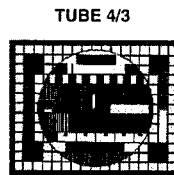
Test Bar pattern used : 4/3 with geometric circle.
 Mire utilisée : 4/3 avec un cercle de géométrie.
 Testbild : 4/3 mit geometrischem Kreis.
 . adjust separate for 4/3 and 16/9 format
 . régler séparément pour les formats 4/3 et 16/9
 . für 4/3 and 16/9 getrennt einstellen
 . regolare separatamente per 4/3 e 16/9
 . ajustar separadamente para 4/3 y 16/9

SET-UP	
BRANDT	Brand Selection 1 : TELEFUNKEN 2 : SABA/FERGUSON 3 : THOMSON/ NORDMENDE None : No brand Selected
NORM	Standards B = BG PAL SECAM (Sound FM 5,5MHz) ----- I = I PAL (UK/IRELAND) (Sound FM 6MHz) ----- L = L SECAM (France) (Sound AM 6.5MHz) ----- D = DKK' SECAM (SOUND AM 6.5 MHz) ----- M = NTSC M (Sound FM 4.5MHz)
DEC PR4 (TX92 stereo)	NICAM From Canal+ decoder NICAM du Decod. Canal+ On : Enable OFF : Disable The special sound path handling for Canal+ on PRO4 Validation NICAM issu du decodeur Canal + (PRO4)

VIDEO																						
R - DC*		 grau, grey																				
G - DC*		 grau, grey																				
R - DRV		 weiß, white																				
G - DRV		 weiß, white																				
B - DRV		 weiß, white																				
PEAK	 ☀ + 🌐 = 50% 🌐 = 100%	25" : 70V <table border="1"> <tr><td>Tube 4/3</td><td>Nits</td></tr> <tr><td>25° FS</td><td>420</td></tr> <tr><td>28° FS</td><td>420</td></tr> <tr><td>25° MP</td><td>420</td></tr> <tr><td>28° MP</td><td>350</td></tr> <tr><td>33° MP</td><td>280</td></tr> <tr><td>Tube 16/9</td><td>Nits</td></tr> <tr><td>24° SF</td><td>600</td></tr> <tr><td>28° MP</td><td>480</td></tr> <tr><td>32°MP</td><td>380</td></tr> </table> CRT Pin 6,8,11 Oscillo. or colorimeter	Tube 4/3	Nits	25° FS	420	28° FS	420	25° MP	420	28° MP	350	33° MP	280	Tube 16/9	Nits	24° SF	600	28° MP	480	32°MP	380
Tube 4/3	Nits																					
25° FS	420																					
28° FS	420																					
25° MP	420																					
28° MP	350																					
33° MP	280																					
Tube 16/9	Nits																					
24° SF	600																					
28° MP	480																					
32°MP	380																					

Notes :
 * adjust separate for PAL/NTSC and SECAM
 * régler séparément pour PAL/NTSC et SECAM
 * für PAL/NTSC und SECAM getrennt einstellen
 * regolare separatamente per PAL/NTSC e SECAM
 * ajustar separadamente para PAL/NTSC y SECAM

GEOM		
V - Pos		
V - Amp		
V - Lin		
H - PHA		
H - AMP		



Display mode : 4/3
 Overscan : V = 107%
 H = 107%

Display mode : 4/3
 Overscan : V = 107%
 H = 75%

Software Code :

Software Release Code	Description
TX92NS11	TX92 Stereo (4/3) Software Rel 11
TX92WS11	TX92 Stereo (16/9) Software Rel 11
TX92NM11	TX92 Mon (4/3) Software Rel 11

TV Configuration :

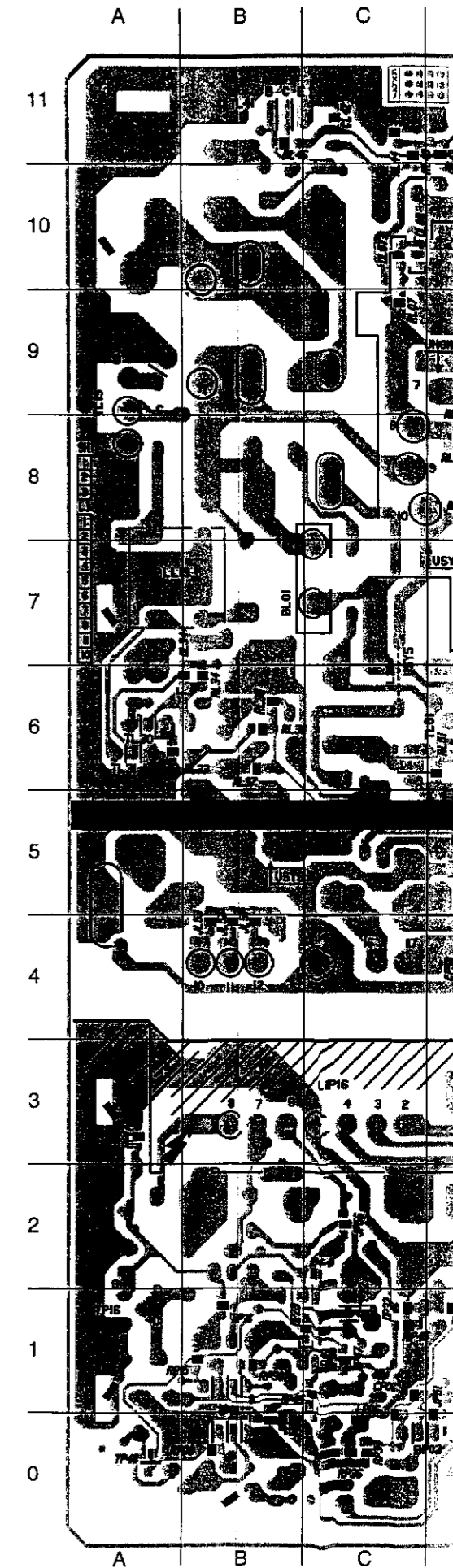
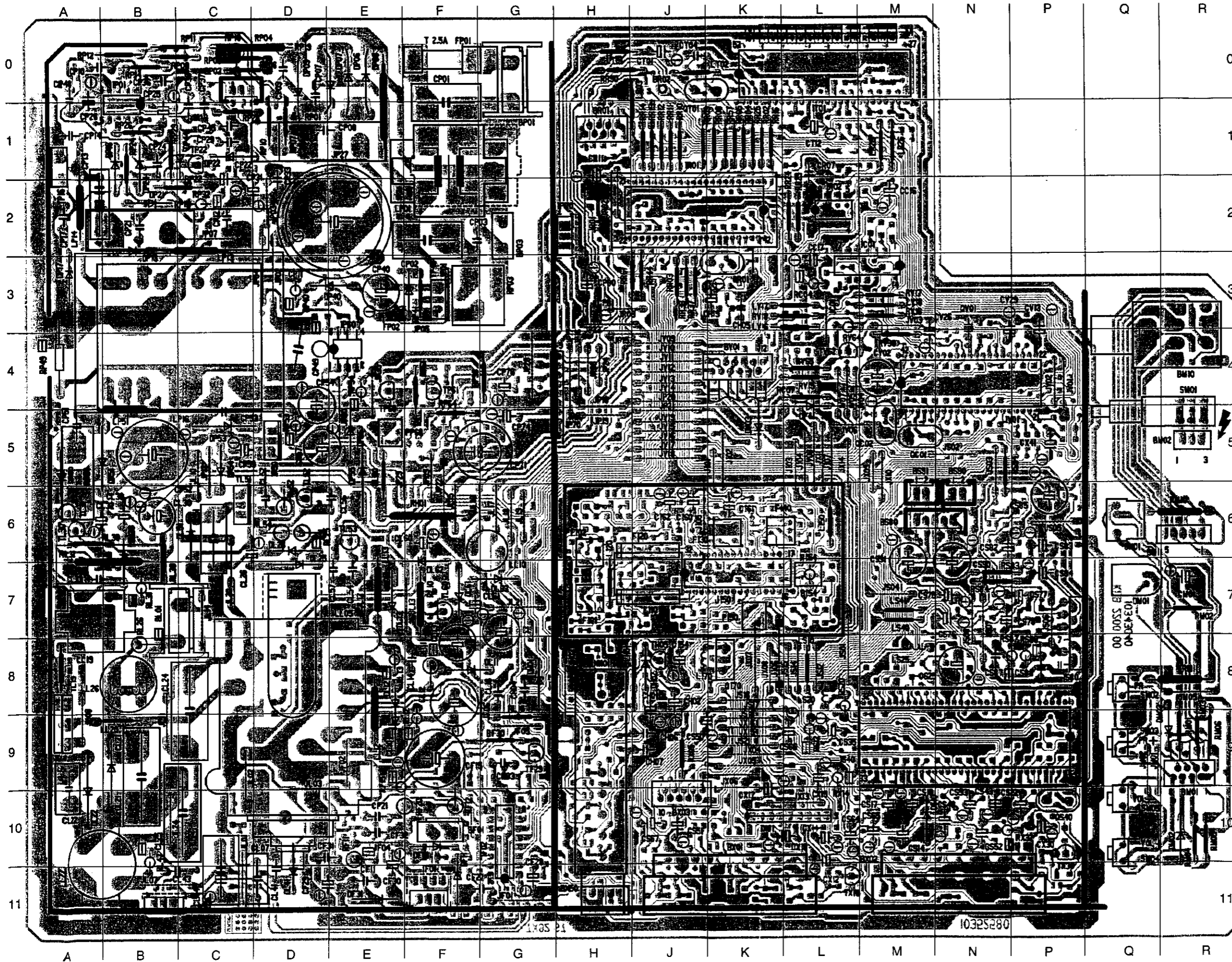
T	TEXT MODULE
S	STEREO MODULE

EW - TILT		
EW - AMP		
EW - SHP		

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


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

SOLDER SIDE - CÔTE SOUDURES - LÛT

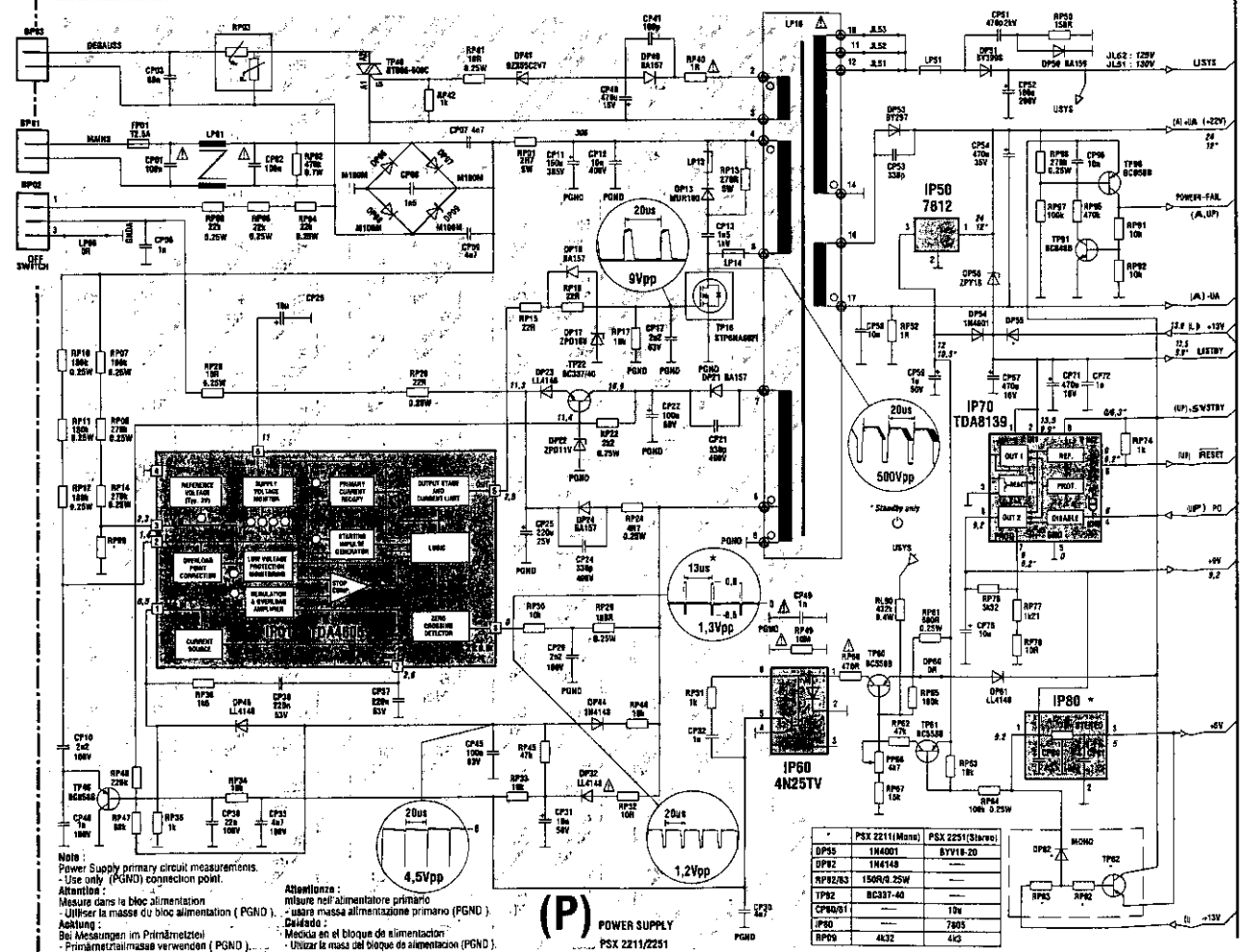
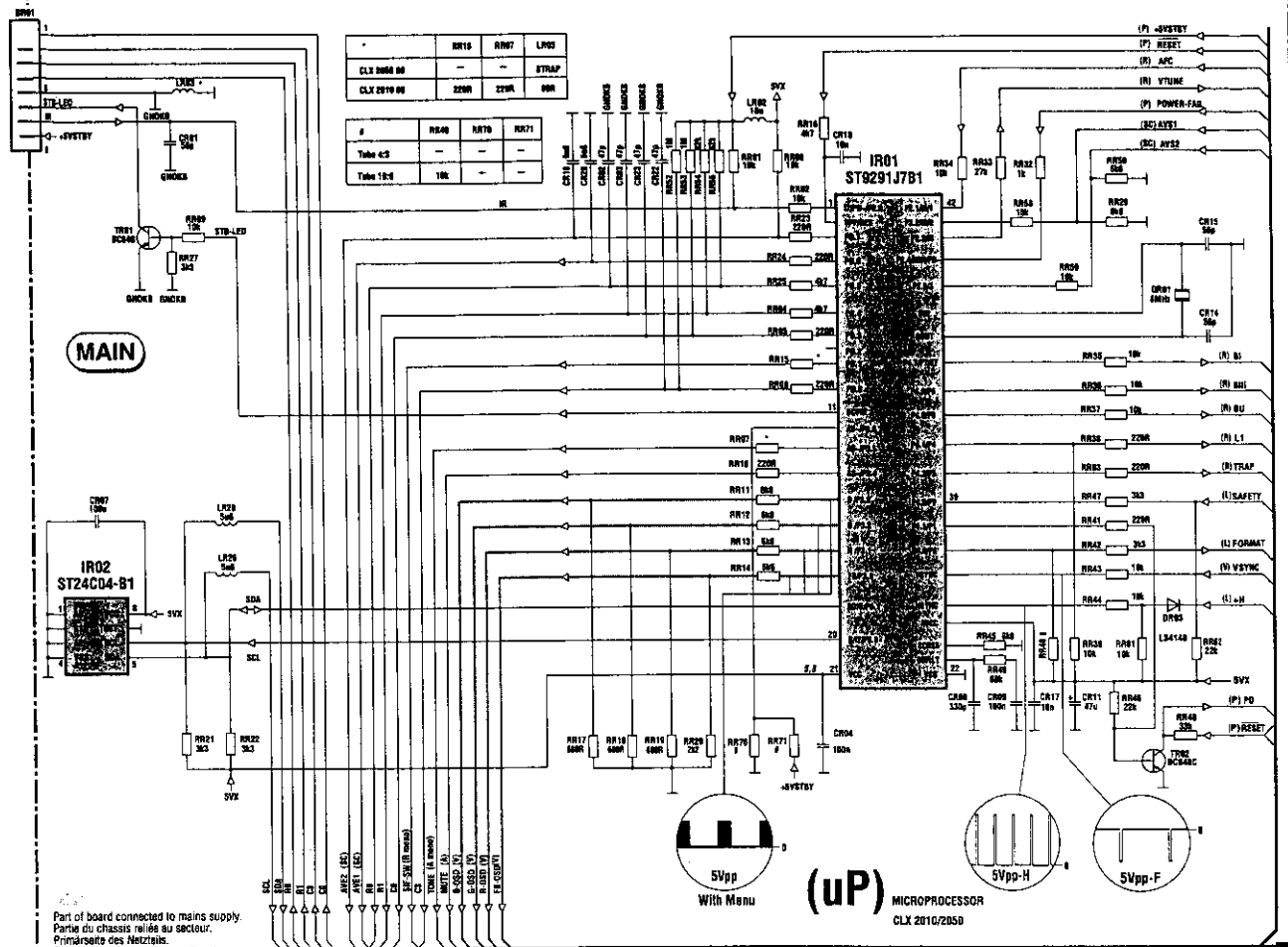


COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

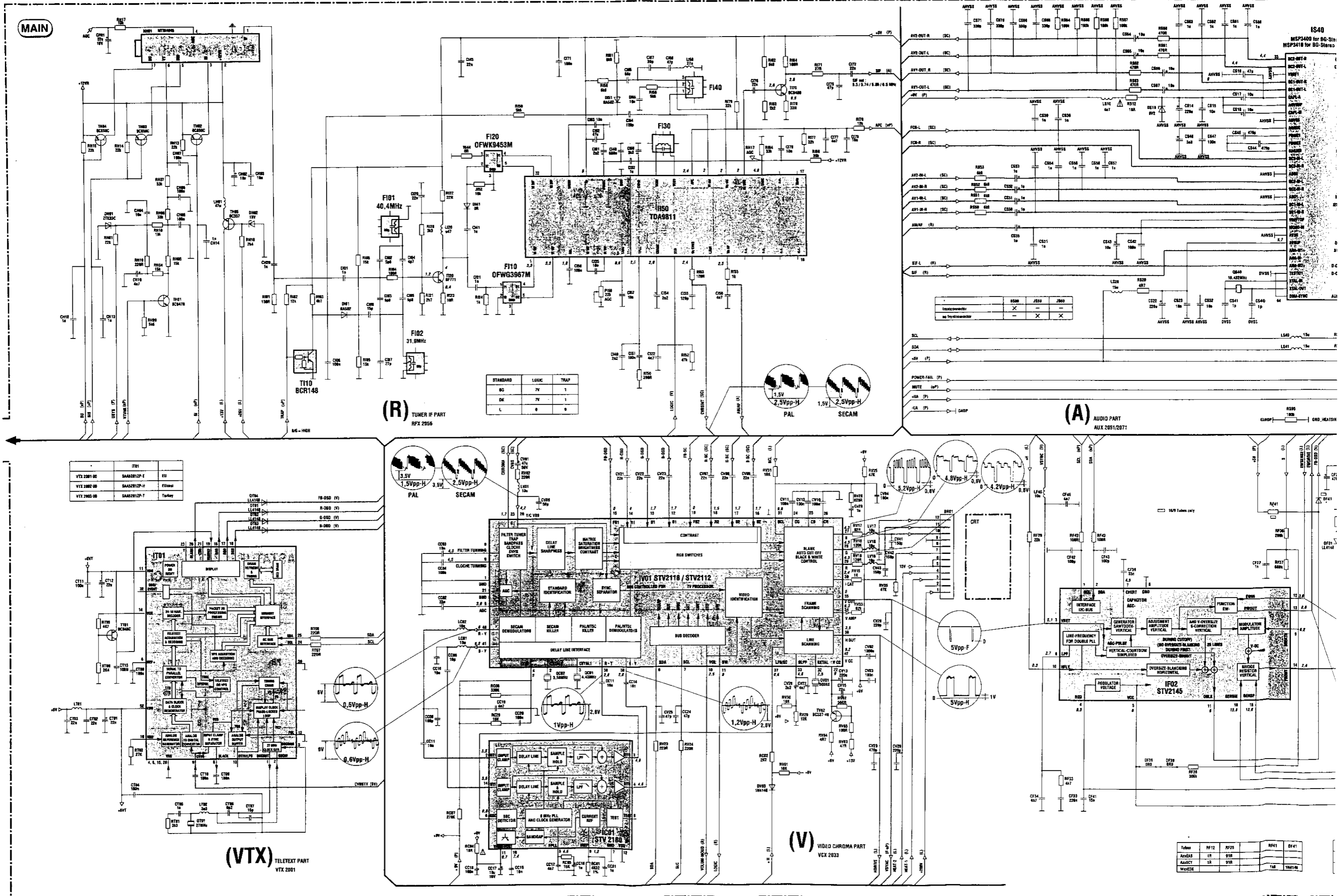
* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

 DF01 F10 DF02 F10 DF07 E10 DF11 F11 DF30 F11 DF31 E11 DF38 F9 DF39 G9 DF41 L5 DF45 G9 DH01 G8 DH02 J8 DI01 H6 DI02 H6 DI40 J7 DI41 H7 DI51 K6 DL06 C10 DL07 C10 DL08 D7 DL11 F8 DL12 E8 DL13 E8 DL15 G7 DL21 B10 DL22 A10 DL25 D7 DL26 D6 DL34 A7 OL38 B6 DL41 D11 DL51 C6 DL60 F6 DL61 F7 DL62 F7 DL63 G7 DP06 E0 DM01 Q7 DM02 R11 DM03 R9 DP06 E0 DP07 E0 DP07 E0 DP08 E0 DP08 E0 DP09 D0 DP09 D0 DP13 B0 DP16 B1 DP17 A3 DP21 B2 DP22 C1 DP23 B1 DP24 B1 DP32 C1 DP40 D3 DP41 E3 DP44 C1 DP45 B1 DP50 A5 DP51 B5 DP53 C5 DP54 C5 DP55 E5 DP56 E5 DP60 F4 DP61 F4 DR03 J4 DS10 N10 DS40 P9 DS41 N9 DT01 L1 DT02 L1 DT03 M1 DT04 M1 DV03 K5 DX13 L11	II07 L5 II50 K7 II50 L6 IP01 B0 IP01 B1 IP50 D5 IP50 D5 IP60 E4 IP60 E4 IP70 H5 IP70 H4 IP80 H2 IR01 J1 IR01 K2 IR02 L2 IR02 L2 IS40 L9 IS40 P8 IS80 P7 IS80 P7 IT01 L1 IT01 K1 IV01 P4 IX01 K10 IX01 L10	JP16 H4 JP17 H4 JP18 H4 JP19 H5 JP20 J4 JP21 J4 JP22 F5 JP23 H3 JP24 H4 JP27 E1 JP28 G4 JP29 E5 JP30 E5 JP35 E4 JP51 C1 JP51 C1 JP55 B0 JP55 D5 JP56 C2 JP57 D3 JP60 F4 JR01 H2 JR02 H2 JR03 H3 JR08 H4 JR53 L2 JR54 L1 JR55 L1 JR55 L1 JR57 M1 JS01 L8 JS02 N5 JS03 N5 JS04 M7 JS05 P6 JS06 P7 JS07 N7 JS08 N7 JS12 L8 JS14 L8 JS15 L8 JS16 K8 JS17 K8 JS18 K9 JS21 K9 JS50 M11 JS51 M10 JS52 M10 JS53 M9 JS54 M9 JS55 M9 JS56 M9 JS57 M8 JS58 M8 JS59 M6 JS60 N6 JS61 N5 JS62 P9 JS63 P9 JS64 H10 JS65 M9 JS66 M9 JS67 N9 JS68 M7 JS70 N11 JT50 K0 JT51 K0 JT52 L0 JV01 P4 JV02 P4 JV03 M3 JV04 L4 JV05 L4 JV06 L5 JV07 L4 JV08 L5 JV09 J4 JV10 J4 JV11 J4 JV12 J4 JV13 J4 JV14 J4 JV15 J5 JV16 J5 JV17 J5 JV18 J5 JV19 J5 JV50 N3 JV51 M4 JV52 M4 JV53 P5 JV54 P3 JV55 L4 JV56 P5 JV57 N5 JV58 M5 JV60 L4 JX04 K9 JX05 K9	JX06 K9 JX07 K8 JX08 K8 JX09 M5 JX10 M5 JX11 L5 JX13 L10 JX14 L5 JX15 K9 JX16 K9 JX52 J11 JX53 K11 JX54 K11 JX55 N11 JX56 N11 JX57 J9 JX58 L10 JX59 K8 JX60 K8 JX63 P10 JX65 P6	RF25 G10 RF28 G10 RF29 G9 RF30 G9 RF33 G9 RF36 G10 RF37 G9 RF38 F10 RF41 H5 RF42 G10 RF43 G11 RH01 F6 RH04 K3 RH05 K3 RH06 H9 RH07 H9 RH09 K3 RH10 G8 RH13 H10 RH14 H9 RH15 H10 RH16 H8 RH17 H9 RH19 G6 RI01 H8 RI02 J6 RI03 J6 RI04 H7 RI05 H6 RI06 H6 RI07 H6 RI08 H6 RI17 K7 RI20 H7 RI21 H7 RI22 H6 RI23 J7 RI24 J7 RI41 J6 RI42 H6 RI43 H6 RI44 J7 RI50 J7 RI52 K5 RI53 K7 RI54 L7 RI55 K7 RI56 L6 RI58 K6 RI59 L6 RI60 J8 RI61 L8 RI64 J6 RI70 L7 RI71 K7 RI73 K8 RI76 L7 RI78 J6 RI79 K6 RI82 L7 RI83 L7 RI84 L7 RL03 D8 RL04 D8 RL05 D8 RL06 D8 RL07 C9 RL08 D8 RL10 F7 RL11 F8 RL12 F9 RL13 E8 RL15 E9 RL16 G9 RL25 D6 RL26 B7 RL30 B6 RL31 B7 RL32 A6 RL33 A6 RL34 B6 RL35 B6 RL36 B6 RL37 B6 RL38 B7 RL41 D10 RL42 G11 RL43 D11 RL44 C11 RL46 B11 RL47 B10 RL48 C11 RL49 A8 RL51 D6 RL52 D6 RL54 D6 RL55 E6 RL56 D6	RL57 E6 RL61 F6 RL62 F7 RL63 F7 RL64 F7 RL65 G7 RL90 E5 RM01 R9 RM02 R7 RM03 R9 RM04 R10 RM05 R10 RM06 R11 RM10 R6 RM11 R8 RP01 D1 RP02 E0 RP03 G3 RP03 G3 RP04 D0 RP05 C0 RP06 D0 RP07 D1 RP08 C0 RP09 B0 RP10 D1 RP11 C0 RP12 A0 RP13 C2 RP14 B0 RP15 B1 RP16 B1 RP17 A3 RP18 C0 RP19 D0 RP22 C2 RP24 B1 RP26 B1 RP28 C1 RP29 B1 RP30 B1 RP31 D3 RP32 C2 RP33 D1 RP34 C0 RP36 C0 RP38 C0 RP40 D3 RP41 F3 RP42 F3 RP44 C2 RP45 C1 RP47 C1 RP48 C1 RP49 A4 RP50 A5 RP52 D4 RP53 D5 RP54 E4 RP60 E4 RP61 F4 RP62 F4 RP63 F5 RP64 F5 RP65 E4 RP66 E5 RP67 E5 RP71 H4 RP76 G4 RP77 G4 RP78 G4 RP91 F4 RP92 G5 RP95 F5 RP97 G4 RP98 G4 RR01 H1 RR02 K1 RR03 J3 RR04 K1 RR05 K1 RR06 K2 RR08 K1 RR09 K1 RR10 J1 RR11 J1 RR12 J1 RR13 J1 RR14 J1 RR16 K1 RR17 J1 RR18 J1 RR19 J1 RR20 J1 RR21 L1 RR22 M1 RR23 L2 RR24 L2	RR25 K1 RR27 J1 RR29 K2 RR31 K2 RR32 K3 RR33 K3 RR34 K3 RR35 J3 RR36 J3 RR37 J3 RR38 J3 RR39 J2 RR40 J2 RR41 J2 RR42 J3 RR43 J3 RR44 J3 RR45 H2 RR46 H3 RR47 J3 RR48 H3 RR49 J2 RR50 K2 RR52 H1 RR53 H1 RR54 H1 RR55 H1 RR56 H0 RR57 K1 RR58 K2 RR59 K2 RR61 H3 RR62 H3 RR70 J2 RR71 J2 RR90 H0 RS12 L9 RS20 L8 RS27 M8 RS28 N8 RS29 N8 RS40 N8 RS41 N8 RS50 J10 RS51 J10 RS52 N10 RS53 N10 RS60 L10 RS61 M10 RS62 J10 RS63 J11 RS64 M11 RS65 N11 RS66 J11 RS67 J11 RS75 N7 RS78 N7 RS77 N7 RS78 N7 RS79 P7 RS80 P7 RS81 M7 RS82 P6 RS83 N7 RS84 N7 RS85 N7 RS86 N7 RS87 P7 RS88 P7 RS90 P6 RS91 N6 RS92 P6 RS93 P6 RS94 P5 RS95 P6 RT01 J0 RT02 L0 RT03 P6 RT05 P6 RT06 M0 RT07 M1 RT08 M1 RT09 L0 RV01 L4 RV02 P5 RV15 L3 RV16 M4 RV17 M3 RV18 K3 RV23 N5 RV24 N5 RV25 L4 RV28 N3 RV29 N3 RV30 M4 RV31 G6 RV33 N4 RV35 L4	RV62 L4 RV63 L4 RV64 L4 RV65 L4 RX01 K10 RX02 J10 RX03 K10 RX04 K10 RX05 J9 RX06 K11 RX07 K11 RX08 K11 RX09 K11 RX0 L11 RX1 L11 RX12 L11 RX14 L10 RX16 L10 RX17 L9 RX18 L10 RX19 N10 RX20 H11 RX21 H11 RX25 P10 RX26 P11 RX27 P10 RX28 P10 RX29 P10 RX30 P10 RX31 P11 RX32 P10 RX33 J10 RX35 K10 RX36 N10 RX38 K10 RX39 K10 RX40 P11 RX7 L2
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**MICROPROCESSOR / POWER SUPPLY - MICROPROCESSEUR / ALIMENTATION -
MIKROPROZESSOR / NETZTEIL - MICROPROCESSORE / ALIMENTAZIONE - MICROPROCESADOR / ALIMENTACION**



MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE SCHALTBILD - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL

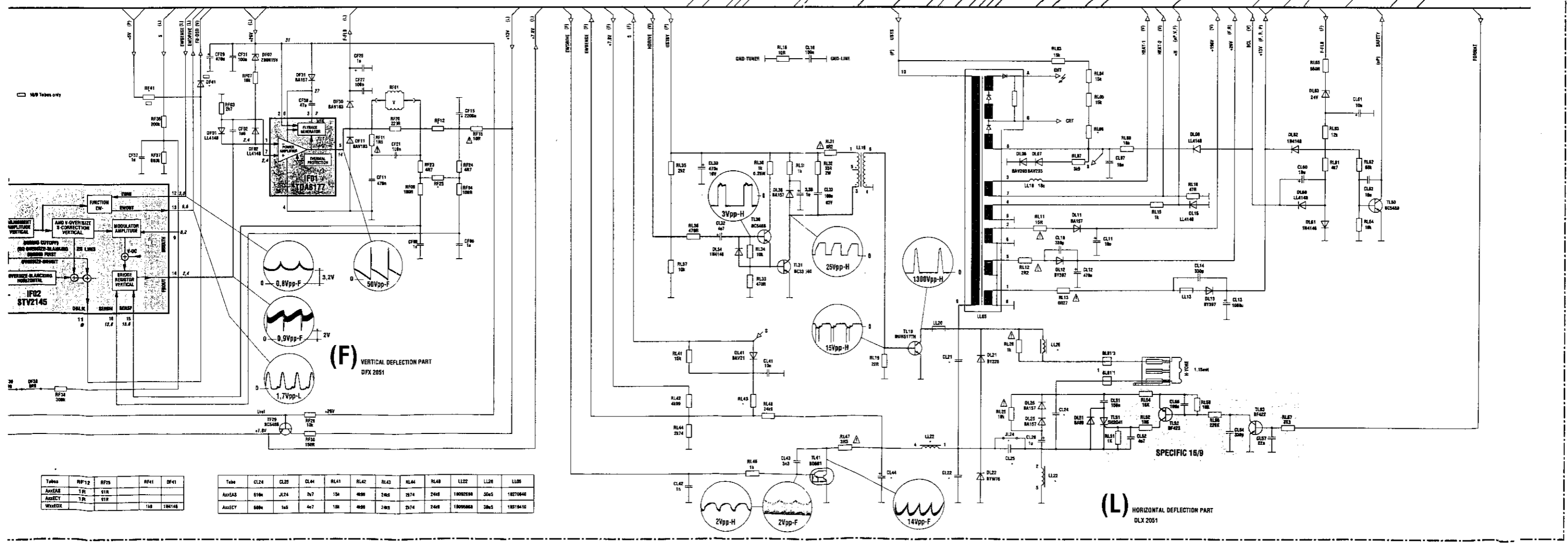
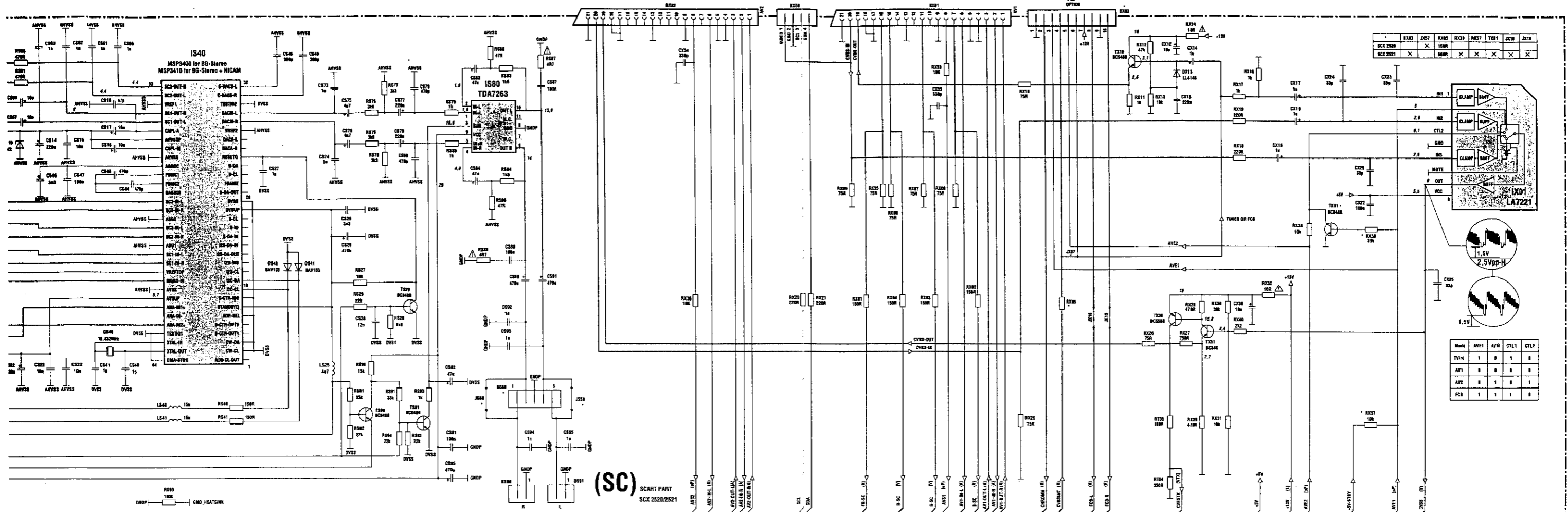


STANDARD	LOGIC	TRAP
BG	7V	1
DE	7V	1
L	0	0

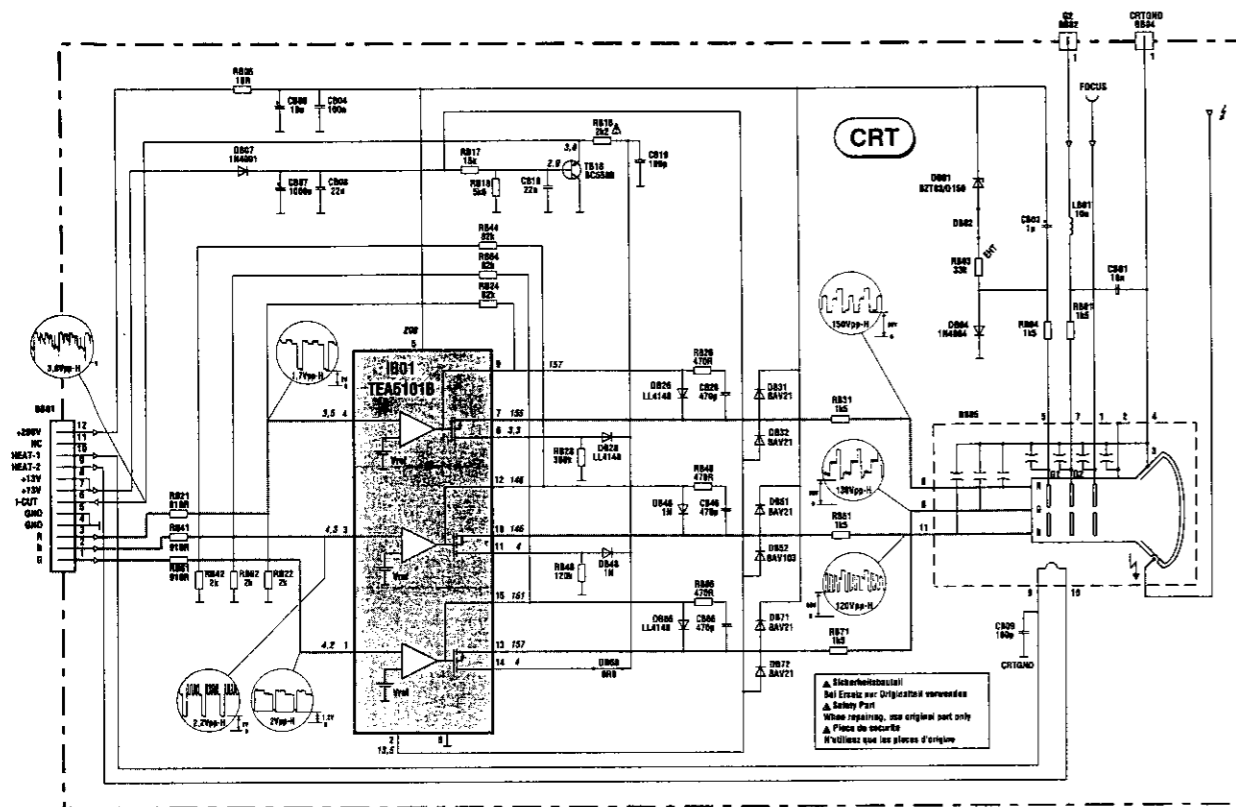
Transconductors	J550	J600
no Transconductors	-	X

ITEM	DESCRIPTION	REMARKS
VTX 2301 00	SAAS212P-E	EU
VTX 2302 00	SAAS212P-H	EU/USA
VTX 2303 00	SAAS212P-T	TURKEY

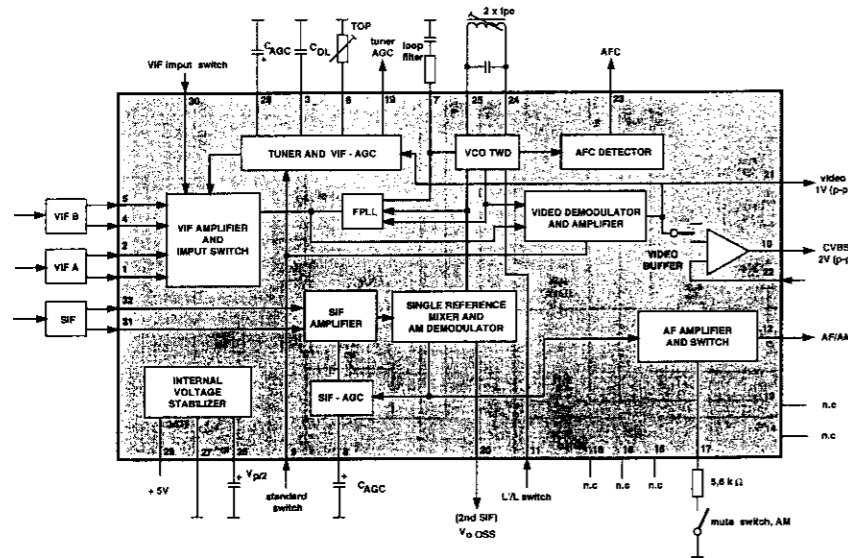
Table	RF12	RF25	RF41	DF41
ArxEAR	1R	910		
ArxECY	1R	910		
WxEDX			1R	104140



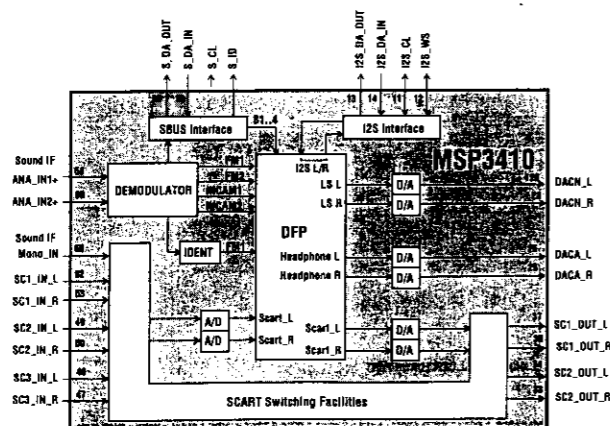
VIDEO AMPLIFIER - AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKER -
AMPLIFICATORE VIDEO - AMPLIFICADOR VIDEO



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



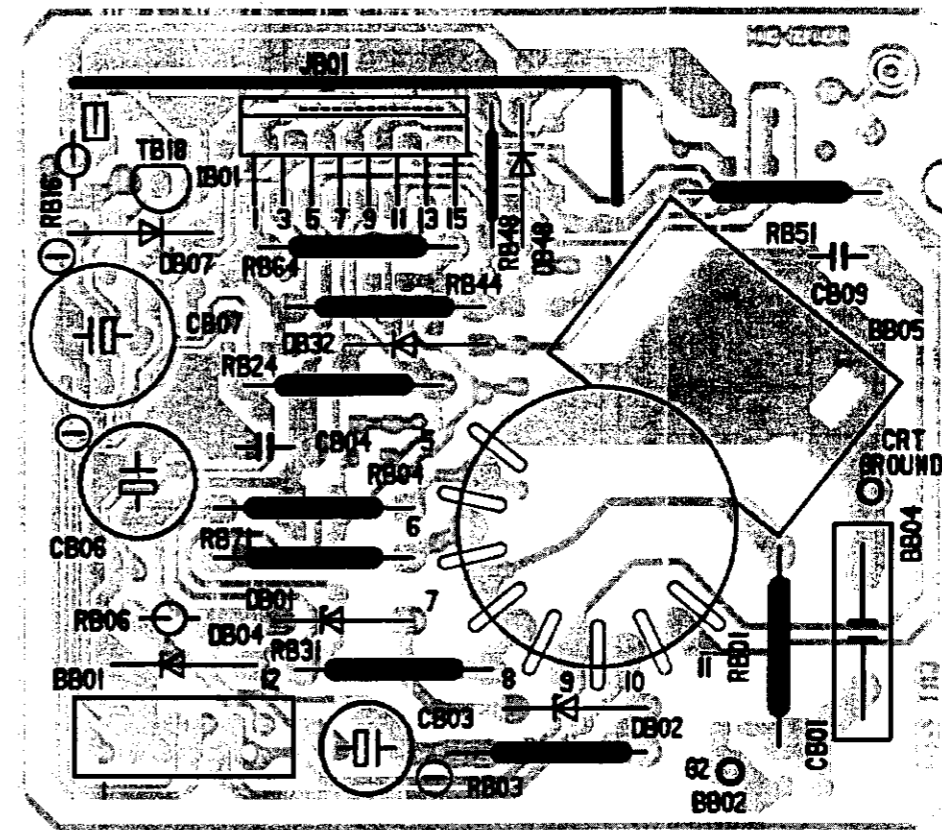
MSP3400 / MSP3410 BLOCK DIAGRAM SOUNDPROCESSOR



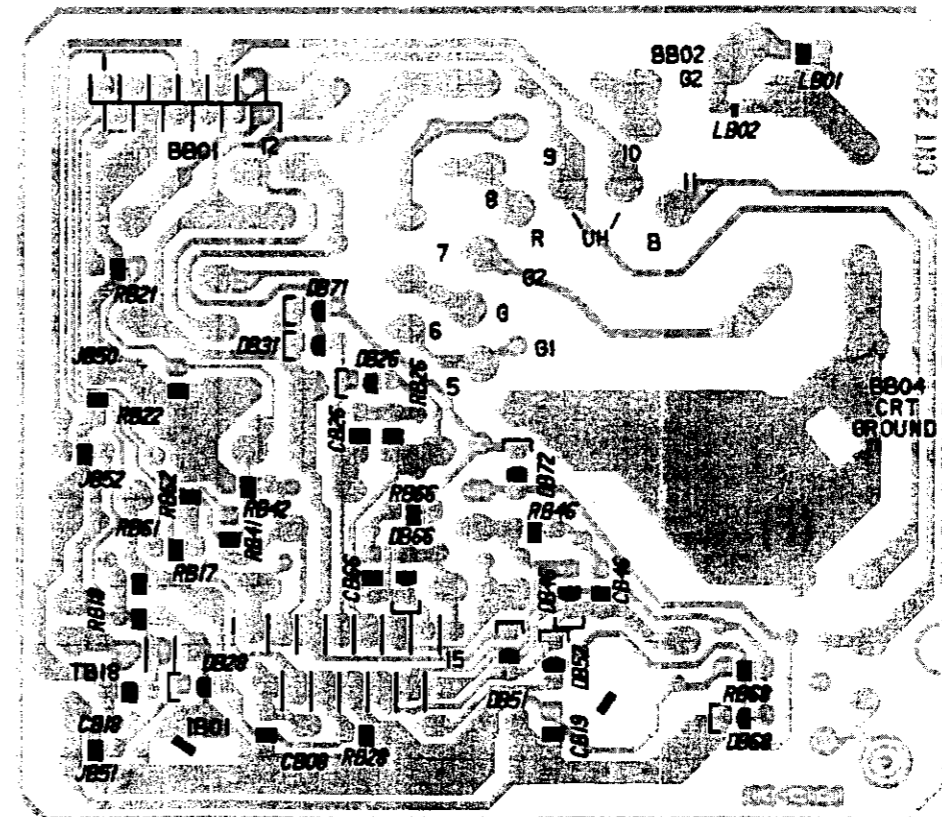
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO

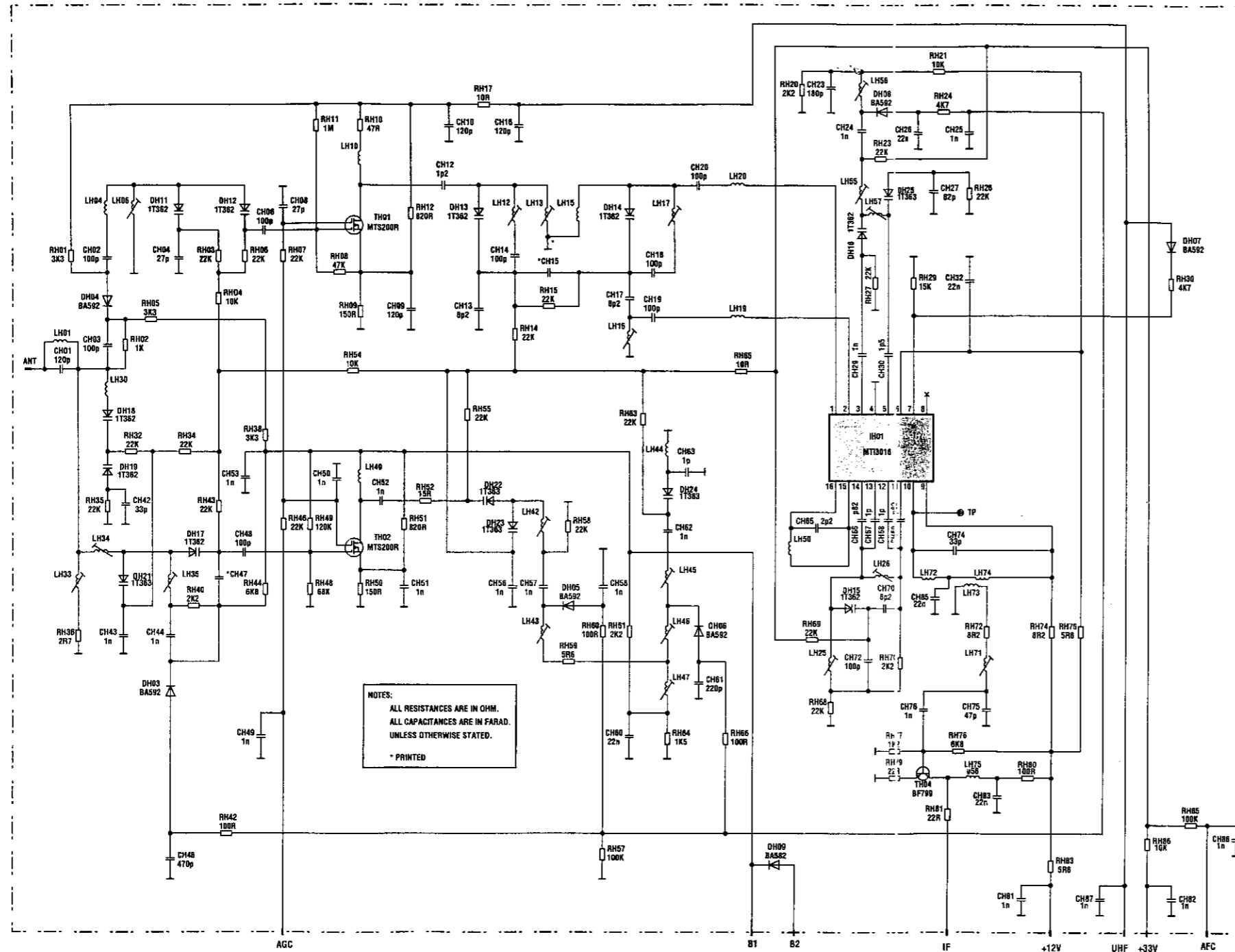
VHF / UH

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

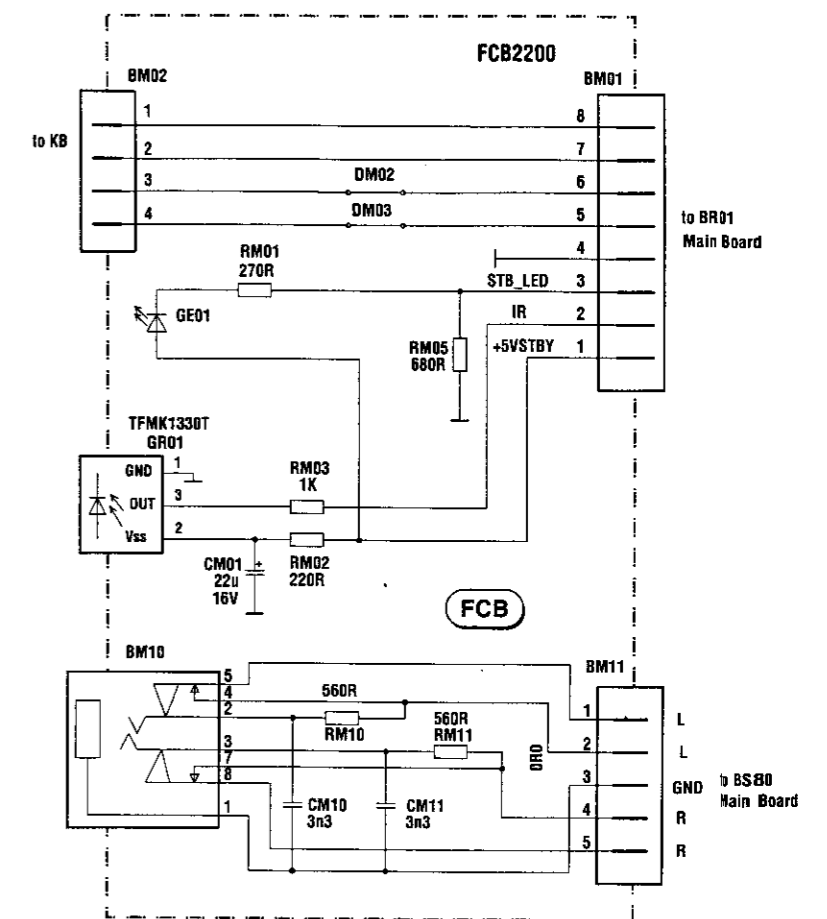


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

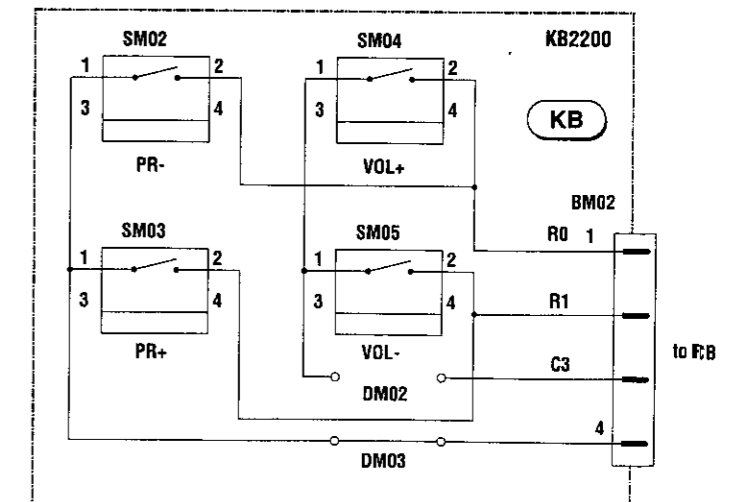




FRONT CONNECTOR BOARD -
MODULE PRISE ET INTERCONNEXION DU CLAVIER
FRONTANSCHLUSSPLATTE -
PIASTRA CONNESSIONE FRONTALE
- PLÁTINA MANDOS FRONTAL



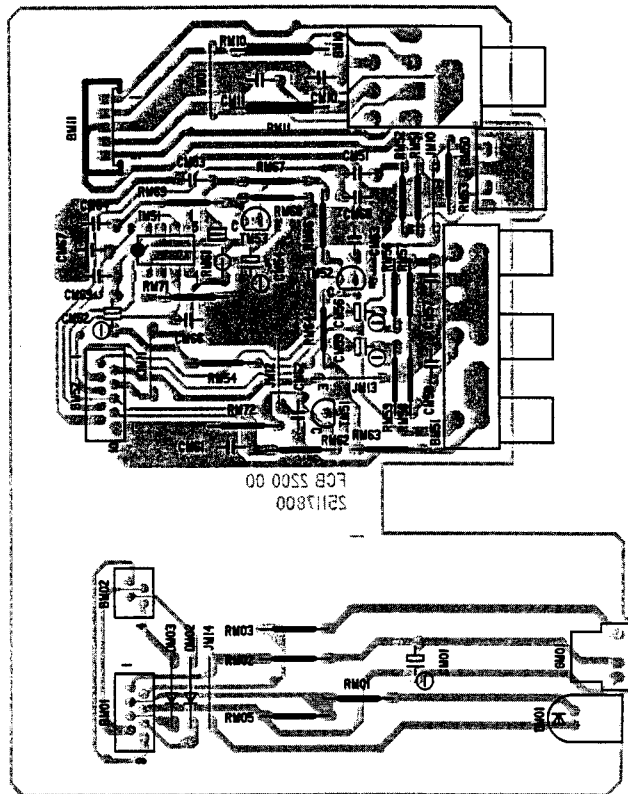
KEYBOARD MODULE - PLATINE CLAVIER -
TASTATURPLATTE -PIASTRA COMANDI -
PLATINA TECLADO



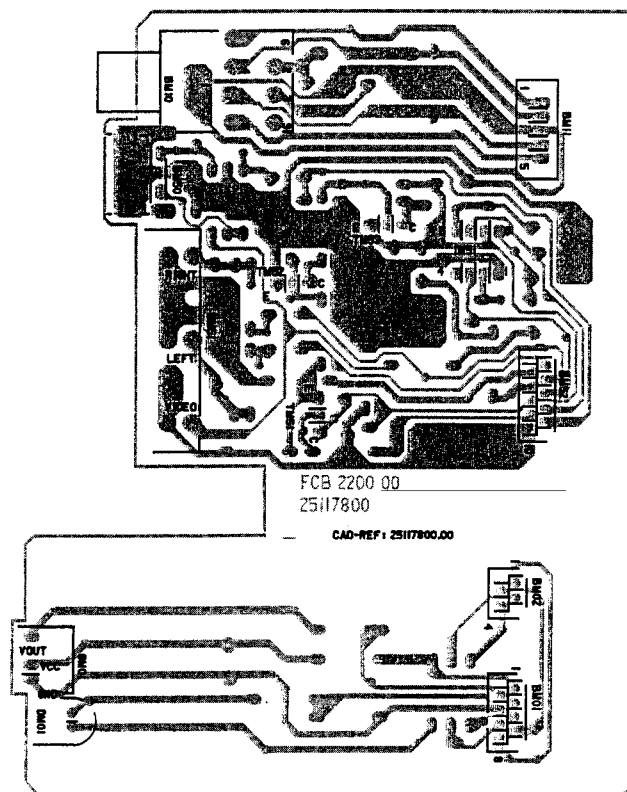
FRONT CONNECTOR BOARD - MODULE PRISE EN FACADE ET INTERCONNEXION DU CLAVIER
FRONTANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS

FCB2200

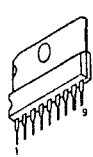
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



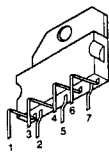
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



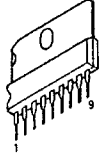
**INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR
 CIRCUITOS INTEGRADOS Y TRANSISTORES**



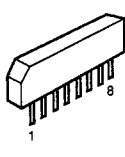
TDA 8139



TDA 8177



TEA 5101B



SDA 9187
SDA 9188



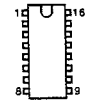
4N25TV



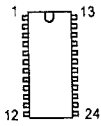
TDA4605
ST24C04-B1



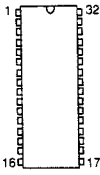
STV2180



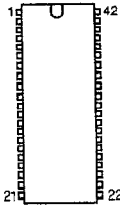
STV2145



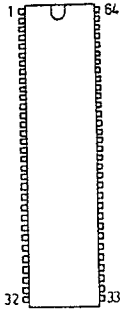
TDA 7263



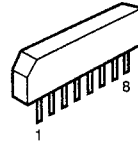
TDA9811



TDA9811



MPS3400
MPS3410



LA7221



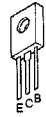
BC 847B
BC 858 B/C
BC 848 A/B/C
BF 771



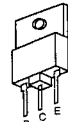
BF 422
BF423



BC 337
BC 548B
BC 558B



BP 681



BUH 517 TH



7805
7812



BT806 -600C



STP6 NA60F1

Pos.	Art-Nr Part No. Code	Bezeichnung	Part	Désignation
		MODULE/AUSTAUSCHTEILE:	EXCHANGE PARTS:	PLATINE:
CRT TX92	103.520.20	CRT TX92 BILDROHRANSCHLUSS	CRT TX92 PCB CRT	CRT TX92 PLATINE TUBE
MTM4045	202.483.90	MTM4045 TUNER	MTM4045 TUNER	MTM4045 TUNER
		CHASSIS-TEILE	CHASSIS PARTS	CHASSIS-PARTIE
BB01	260.789	Stiftleiste 12polig, MICS 12	Contact strip, 12-pole, black	Connecteur male, 12 broches
BB05	249.769	Bildrohrfassung, 10-polig	Cathode ray tube socket	Support tube cathodique
BL01A	102.381.10	Halter Netzleitung (auf Ltp.)	Holder	Support
BP01A	102.381.10	Halter Netzleitung (auf Ltp.)	Holder	Support
BR01	266.862	Stiftleiste 8pol MICS08 SW	8 pin wafer, black	Barrette de contact, 8, noir
BS80	243.597	Stiftleiste, 5polig, UF	Contact strip, 5-pole	Connecteur male, 5 broches
BS90	239.037	Stiftleiste 2polig, rot UF	2 pin contact housing, red	Culot a 2 broches, rouge
BS91	239.038	Stiftleiste 2polig, grün UF	2 pin contact housing, green	Culot a 2 broches, vert
BV01	260.789	Stiftleiste 12polig, MICS 12	Contact strip, 12-pole, black	Connecteur male, 12 broches
BX01	309.651.034	Buchse, Euro AV (SCART)	Scart socket	Prise femelle peritelevision
BX02	309.651.034	Buchse, Euro AV (SCART)	Scart socket	Prise femelle peritelevision
BX50	309.650.092	Stiftleiste, 4polig Liegend	Contact strip, 4-pole	Connecteur male, 4 broches
CB01	309.441.641	10NF 3KV Keramik-Kondensator	10NF 3KV C cap	10NF 3KV C ceramique
CB03	100.608.30	1U0F 250V 20% Elko	1U0F 250V 20% E cap	1U0F 250V 20% C chimique
CB06	276.029	10UF 250V 20% Elko	10UF 250V 20% E cap	10UF 250V 20% CC
CB09	266.247	100PF 1KV 20% Keramik-Kondensator	100PF 1KV 20% C cap	100PF 1KV 20% C ceramique
CL07	140.358.70	0U01F 400V 5% Kondensator	0U01F 400V 5% Capacitor	0U01F 400V 5% Condensateur
CL10	266.243	330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap	330PF 1kv 10% CC
CL11	239.322	10UF 250V 20% Elko	10UF 250V 20% E cap	10UF 250V 20% CC
CL14	266.243	330PF 1KV 10% Keramik-Kondensator	330PF 1KV 10% C cap	330PF 1kv 10% CC
CL21	100.427.50	14N4F 1K6V 3,5% Filmkondensator	14N4F 1K6V 3,5% Film cap	14N4F 1K6V 3,5% Condensateur
CL22	102.635.40	27N0F 400V 5% Filmkondensator	27N0F 400V 5% Film cap	27N0F 400V 5% Condensateur
CL25	256.712	1U5F 160V 10% Filmkondensator	1U5F 160V 10% Film cap	1U5F 160V 10% Condensateur film
CL26	100.608.30	1U0F 250V 20% Elko	1U0F 250V 20% E cap	1U0F 250V 20% C chimique
CL44	101.220.40	4U7F 160V 20% Elko	4U7F 160V 20% E cap	4U7F 160V 20% C chimique
CP01	103.139.00	0U1F 275V 20% Kondensator	0U1F 275V 20% MPoly cap	0U1F 275V 20% C MP
CP02	103.139.00	0U1F 275V 20% Kondensator	0U1F 275V 20% MPoly cap	0U1F 275V 20% C MP
CP07	100.587.40	4N7F 1KV Keramik-Kondensator	4N7F 1KV C cap	4N7F 1KV C ceramique
CP08	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap	1N5F 1KV C ceramique
CP09	100.587.40	4N7F 1KV Keramik-Kondensator	4N7F 1KV C cap	4N7F 1KV C ceramique
CP11	309.418.404	150UF 385V Elko	150UF 385V E cap	150UF 385V CC
CP13	339.590.226	1500PF 1KV Kondensator	1500PF 1KV Cap	1500PF 1KV Condensateur
CP21	238.266	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap	330PF 400V 20% C ceramique
CP24	238.266	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap	330PF 400V 20% C ceramique
CP49	309.440.686	1NF 400V 20% Keramik-Kondensator	1NF 400V 20% C capacitor	1NF 400V 20% Condensateur
CP51	309.442.975	470PF 2KV Keramik-Kondensator	470PF 2KV C cap	470PF 2kV CC
CP52	102.441.20	100UF 200V 20% Elko	100UF 200V 20% E cap	100UF 200V 20% CC
CP53	238.266	330PF 400V 20% Keramik-Kondensator	330PF 400V 20% C cap	330PF 400V 20% C ceramique
DB01	704.023.51	BZT03/D150 Diode	BZT03/D150 Diode	BZT03/D150 Diode
DB04	464.612	1N4004 Diode	1N4004 Diode	1N4004 Diode

Pos.	Art.-Nr Part No. Code	Bezeichnung	Part	Désignation
DB07	309.325.951	1N4001 Diode	1N4001 Diode	1N4001 Diode
DB26	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DB28	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DB31	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DB32	462.299	BAV21 Diode	BAV21 Diode	BAV21 Diode
DB46	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DB48	309.325.927	1N4148 Diode	1N4148 Diode	1N4148 Diode
DB51	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DB52	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DB66	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DB71	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DB72	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DF01	309.325.927	1N4148 Diode	1N4148 Diode	1N4148 Diode
DF02	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DF07	160.300.60	ZMM15 Z-Diode SMD	ZMM15 Z-Diode	ZMM15 Z-Diode
DF11	103.518.80	P4KE56A Z-Diode	P4KE56A Z-Diode	P4KE56A Z-Diode
DF30	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DF31	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DH01	353.111.2001	ZTK33C IC	ZTK33C IC	ZTK33C CI
DH02	243.375	BZX55B13V Z-Diode	BZX55B13V Z-Diode	BZX55B13V Z-Diode
DI01	309.325.201	BA582 Diode SMD	BA582 Diode	BA582 Diode
DI51	309.325.201	BA582 Diode SMD	BA582 Diode	BA582 Diode
DL06	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DL07	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DL08	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DL11	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DL12	266.534	BY397 Diode	BY397 Diode	BY397 Diode
DL13	266.534	BY397 Diode	BY397 Diode	BY397 Diode
DL15	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DL21	276.169	BY228 Diode	BY228 Diode	BY228 Diode
DL22	266.280	BYW76 Diode	BYW76 Diode	BYW76 Diode
DL25	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DL26	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DL34	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DL38	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DL41	462.299	BAV21 Diode	BAV21 Diode	BAV21 Diode
DL60	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DL61	309.325.927	1N4148 Diode	1N4148 Diode	1N4148 Diode
DL62	309.325.927	1N4148 Diode	1N4148 Diode	1N4148 Diode
DL63	339.529.957	ZPD24 Z-Diode	ZPD24 Z-Diode	ZPD24 Z-Diode
DP06	102.661.30	M100M Diode	M100M Diode	M100M Diode
DP07	102.661.30	M100M Diode	M100M Diode	M100M Diode
DP08	102.661.30	M100M Diode	M100M Diode	M100M Diode
DP09	102.661.30	M100M Diode	M100M Diode	M100M Diode
DP13	490.007.4145	MUR160 Diode	MUR160 Diode	MUR160 Diode
DP17	266.939	ZPD15V Z-Diode	ZPD15V Z-Diode	ZPD15V Z-Diode
DP21	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DP22	110.736.70	BZX55C11 Z-Diode	BZX55C11 Z-Diode	BZX55C11 Z-Diode
DP23	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DP24	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DP32	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DP40	309.325.056	BA157 Diode	BA157 Diode	BA157 Diode
DP41	309.327.124	ZPD2,7, Z-Diode	ZPD2,7, Z-Diode	ZPD2,7, Z-Diode
DP44	309.325.927	1N4148 Diode	1N4148 Diode	1N4148 Diode
DP45	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DP50	464.449	BA159 Diode	BA159 Diode	BA159 Diode
DP51	160.085.60	BY399S Diode	BY399S Diode	BY399S Diode

Pos.	Art.-Nr Part No. Code	Bezeichnung	Part	Désignation
DP53	309.325.087	BY297 Diode	BY297 Diode	BY297 Diode
DP54	309.325.951	1N4001 Diode	1N4001 Diode	1N4001 Diode
DP55	160.089.00	BYV10-20 Diode	BYV10-20 Diode	BYV10-20 Diode
DP61	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DR03	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DS10	309.325.104	BZX85C8V2 Diode	BZX85C8V2 Diode	BZX85C8V2 Diode
DS40	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DS41	102.224.20	BAV203 Diode SMD	BAV203 Diode SMD	BAV203 Diode SMD
DT01	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DT02	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DT03	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DT04	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
DV03	309.325.927	1N4148 Diode	1N4148 Diode	1N4148 Diode
DX13	339.527.177	LL4148 Diode SMD	LL4148 Diode	LL4148 Diode
FI01	103.192.60	38M9HZ Filter LA7x7	38M9HZ Filter	38M9HZ Filtre
FI02	103.192.60	38M9HZ Filter LA7x7	38M9HZ Filter	38M9HZ Filtre
FI10	102.294.20	OFWG3967M Oberflächenwellenfilter	Surface acoustic wave filter	Filtre a onde de surface
FI20	101.764.50	OFWK9453M Oberflächenwellenfilter	Surface acoustic wave filter	Filtre a onde de surface
FI30	103.384.60	77M8HZ Filter LA7x7	77M8HZ Filter	77M8HZ Filtre
FI40	103.193.50	6M6HZ Filter LA7x7	6M6HZ Filter	6M6HZ Filtre
FP01	309.627.916	2,5AT 250V Sicherung	2,5A Fuse	2,5A Fusible
IB01	102.314.40	TEA5101B IC	TEA5101B IC	TEA5101B CI
IB01C	261.825	Montageclip 1	Clip 1	Agrafe 1
IC01	201.669.90	STV2180 IC	STV2180 IC	STV2180 CI
IF01	150.534.40	TDA8177 IC	TDA8177 IC	TDA8177 CI
IF01B	252.593	Silikonscheibe	Silicon plate	Rondelle silicone
IF01C	261.827	Montageclip	Clip	Agrafe
IF02	102.645.10	STV2145 IC	STV2145 IC	STV2145 CI
II50	102.878.30	TDA9811/V1 IC	TDA9811/V1 IC	TDA9811/V1 CI
IP01	101.617.50	TDA4605 IC	TDA4605 IC	TDA4605 CI
IP50	276.680	MC7812CT IC	IC, MC7812CT	CI, MC7812CT
IP60	103.373.70	4N25TV Fotokoppler	4N25TV Photo couplers	4N25TV Photo coupleur
IP70	309.368.734	TDA8139 IC	TDA8139 IC	TDA8139 CI
IP70C	309.903.844	Montageclip	Clip metal	Agrafe
IP80	309.368.470	UA7805CSP/MC7805 IC	UA7805CSP IC	UA7805CSP CI
IP80C	261.827	Montageclip	Clip	Agrafe
IR01	103.421.60	ST9291J7B1 IC prog. o. S.	ST9291J7B1 IC	ST9291J7B1 CI
IR01	300.496.10	ST9291J7B1 IC prog. m. S.	ST9291J7B1 IC	ST9291J7B1 CI
IR01A	309.689.966	42polig IC-Fassung	IC socket 42pole	Support CI 42 voies
IR02	490.008.0378	ST24C04/B1 IC	ST24C04/B1 IC	ST24C04/B1 CI
IS40	101.810.00	MSP3410-TC15/24 IC	MSP3410-TC15/24 IC	MSP3410-TC15/24 CI
IS40	103.191.70	MSP3400C IC	MSP3400C IC	MSP3400C CI
IS80	102.811.50	TDA7263 IC	TDA7263 IC	TDA7263 CI
IS80C	102.954.80	Montageclip 4	Clip 4	Agrafe 4
IT01	102.588.10	SAA5281ZP/E IC	SAA5281ZP/E IC	SAA5281ZP/E CI
IV01	201.658.10	STV2118 IC	STV2118 IC	STV2118 CI

Pos.	Art.-Nr Part No. Code	Bezeichnung	Part	Désignation
IX01	309.368.592	LA7221 IC	LA7221 IC	LA7221 CI
LB01	140.366.40	10UH Spule SMD	10UH Coil SMD	10UH Bobine SMD
LC01	140.366.40	10UH Spule SMD	10UH Coil SMD	10UH Bobine SMD
LC02	140.366.40	10UH Spule SMD	10UH Coil SMD	10UH Bobine SMD
LF45	140.366.40	10UH Spule SMD	10UH Coil SMD	10UH Bobine SMD
LI50	339.349.718	27UH Spule	27UH Coil	27UH Self
LL05	103.194.10 S	Diodensplit-Trafo M30	Diode split transformer	Transformateur THT
LL10	100.626.10	18U 10% Drossel	18U 10% Choke coil	18U 10% Self
LL19	309.309.992 S	Treibertransformator	Driver transformer	Transformateur
LL22	100.950.60 S	Kombi-Spule	Combi coil	Bobine
LL26	508.732.54 S	30U5H Spule, H-Linearität	30U5H H-Linearity coil	30U5H Bobine linearite
LP01	102.615.30 S	60MIH Filter TF-Mains	Line filter	Self de filtrage
LP16	103.027.20 S	Trafo Schaltnetzteil SMT4	Switched mode power transformer	Transformateur d'alimentation
LR02	140.366.40	10UH Spule SMD	10UH Coil SMD	10UH Bobine SMD
LR26	150.401.10	3U3H 10% Drossel	3U3H 10% Choke coil	3U3H 10% Self
LR28	150.401.10	3U3H 10% Drossel	3U3H 10% Choke coil	3U3H 10% Self
LS10	309.250.052	4U7H Drossel	4U7H Choke coil	4U7H Self
LS25	246.995	4U7H 10% Drossel	4U7H 10% Choke coil	4U7H 10% Self
LS40	130.919.50	15UH 10% Drossel	15UH 10% Choke coil	15UH 10% Self
LS41	130.919.50	15UH 10% Drossel	15UH 10% Choke coil	15UH 10% Self
LV16	266.408	10UH Drossel	10UH Choke coil	10UH Self
LV17	266.408	10UH Drossel	10UH Choke coil	10UH Self
LV18	266.408	10UH Drossel	10UH Choke coil	10UH Self
LX41	140.366.40	10UH Spule SMD	10UH Coil SMD	10UH Bobine SMD
PI50	339.509.716	22KR 30% Trimmwiderstand	22KR 30% Trimmer resistor	22KR 30% Resistance aju stable
PP66	339.509.703	4K7 Potentiometer	4K7 Potentiometer	4K7 Potentiometre
QC01	100.877.10	4M433619 HZ Quarz	4M433619HZ Crystal	4M433619HZ Quartz
QC02	100.877.20	3M579545HZ Quarz	3M579545HZ Crystal	3M579545HZ Quartz
QR01	309.335.731	8M0HZ Quarz	8M0HZ Crystal	8M0HZ Quartz
QS40	103.346.70	18M432HZ Quarz	18M432HZ Crystal	18M432HZ Quartz
QS40	242.224	18M432HZ Quarz	18M432HZ Crystal	18M432HZ Quartz
QT01	102.541.20	27MHZ Quarz	27MHZ Crystal	27MHZ Quartz
QV01	309.160.840	CSB503B Keramikfilter	CSB503B Ceramic filter	CSB503B Filtre ceramica
RB01	101.218.80	1K5R 0,5W 5% Widerstand	1K5R 0,5W 5% Resistor agglom.	1K5R 0,5W 5% Resistanc e
RB04	101.218.80	1K5R 0,5W 5% Widerstand	1K5R 0,5W 5% Resistor agglom.	1K5R 0,5W 5% Resistanc e
RB16	266.672 S	2K2R 0,3W 5% Sicherheitswiderstand	2K2R 0,3W 5% Fusible resistor	2K2R 0,3W 5% Résistanc e fusible
RB24	804.362.30	82K 0,5W 5% Widerstand	82K 0,5W 5% Resistor agglom.	82K 0,5W 5% Resistance
RB31	101.218.80	1K5R 0,5W 5% Widerstand	1K5R 0,5W 5% Resistor agglom.	1K5R 0,5W 5% Resistanc e
RB44	804.362.30	82K 0,5W 5% Widerstand	82K 0,5W 5% Resistor agglom.	82K 0,5W 5% Resistance
RB51	101.218.80	1K5R 0,5W 5% Widerstand	1K5R 0,5W 5% Resistor agglom.	1K5R 0,5W 5% Resistanc e
RB64	804.362.30	82K 0,5W 5% Widerstand	82K 0,5W 5% Resistor agglom.	82K 0,5W 5% Resistance
RB71	101.218.80	1K5R 0,5W 5% Widerstand	1K5R 0,5W 5% Resistor agglom.	1K5R 0,5W 5% Resistanc e
RC04	339.537.716 S	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor	10R 0,3W 5% Resistance fusible

Pos.	Art.-Nr Part No. Code	Bezeichnung	Part	Désignation
TP22	339.556.787	BC337-40 Transistor	BC337-40 Transistor	BC337-40 Transistor
TP40	102.599.10	BTB06-600C TRIAC Transistor	BTB06-600C TRIAC Transistor	BTB06-600C TRIAC Transistor
TP48	249.250	BC858B Transistor SMD	BC858B Transistor	BC858B Transistor
TP60	309.001.226	BC558B Transistor	BC558B Transistor	BC558B Transistor
TP61	309.001.226	BC558B Transistor	BC558B Transistor	BC558B Transistor
TP91	339.555.241	BC848B Transistor SMD	BC848B Transistor	BC848B Transistor
TP96	249.250	BC858B Transistor SMD	BC858B Transistor	BC858B Transistor
TR01	242.013	BC848C Transistor, SMD	BC848C Transistor, SMD	BC848C Transistor, SMD
TR02	242.013	BC848C Transistor, SMD	BC848C Transistor, SMD	BC848C Transistor, SMD
TS20	339.555.241	BC848B Transistor SMD	BC848B Transistor	BC848B Transistor
TS81	339.555.241	BC848B Transistor SMD	BC848B Transistor	BC848B Transistor
TS90	339.555.241	BC848B Transistor SMD	BC848B Transistor	BC848B Transistor
TT01	242.013	BC848C Transistor, SMD	BC848C Transistor, SMD	BC848C Transistor, SMD
TV62	339.556.787	BC337-40 Transistor	BC337-40 Transistor	BC337-40 Transistor
TX10	309.001.293	BC548B Transistor	BC548B Transistor	BC548B Transistor
TX30	309.001.226	BC558B Transistor	BC558B Transistor	BC558B Transistor
TX31	339.555.241	BC848B Transistor SMD	BC848B Transistor	BC848B Transistor
-	309.699.432	Hochspannungskabel Anode	High tension cable	D'energie haute tension
-	309.699.434	Fokuskabel dünn 460mm	Focus cable 460mm	Cable focus 460mm
-	100.005.80	Halter PSB	Holder PSB	Support PSB
-	102.997.70	Klemmstück	Guide Wire	Guide Cable
-	246.545	Schutzkappe 4,3 Spannungskabel	Protection cap for high voltage cable	Capot plastique
-	251.200.40	Chassisrahmen	Chassis frame	Chassis plastique

Pos.	Art-Nr Part No. Code	Bezeichnung	Part	Désignation
RF11	309.580.973 S	1R5 0,5W 5% Sicherheitswiderstand	1R5 0,5W 5% Fusible resistor	1R5 0,5W 5% Resistance fusible
RF12	309.530.698	1R 0,7W 5% Metalloxydwiderstand	1R 0,7W 5% Metal oxide resistor	1R 0,7W 5% Resistance metallique
RF15	108.833.00 S	10R 0,5W 5% Sicherheitswiderstand	10R 0,5W 5% Fusible resistor	10R 0,5W 5% Résistance fusible
RF20	102.337.20	220R 0,7W 1% Metallfilmwiderstand	220R 0,7W 1% Metal film resistor	220R 0,7W 1% Resistance metall.
RH01	130.015.40	22KR 2W 5% Metalloxydwiderstand	22KR 2W 5% Metal oxide resistor	22KR 2W 5% Resistance metallique
RL10	102.332.20	47R 0,5W 5% Widerstand	47R 0,5W 5% Resistor agglom.	47R 0,5W 5% Resistance
RL11	309.580.969 S	15R 0,5W 5% Sicherheitswiderstand	15R 0,5W 5% Fusible resistor	15R 0,5W 5% Resistance fusible
RL12	243.800 S	2R2 0,5W 5% Sicherheitswiderstand	2R2 0,5W 5% Fusible resistor	2R2 0,5W 5% Résistance fusible
RL13	130.501.70 S	0R270 0,7W +5% Sicherheitswiderstand	0R270 0,7W +5% Fusible resistor	0R270 0,7W +5% Resistance fusible
RL25	600.226.00 S	10KR 0,5W 5% Sicherheitswiderstand NB	10KR 0,5W 5% Fusible resistor	10KR 0,5W 5% Résistance fusible
RL26	309.580.952 S	1KR 0,5W 10% Sicherheitswiderstand	1KR 0,5W 10% Fusible resistor	1KR 0,5W 10% Resistance fusible
RL31	309.580.990 S	8R2 0,3W 5% Sicherheitswiderstand	8R2 0,3W 5% Fusible resistor	8R2 0,3W 5% Résistance fusible
RL32	309.536.940	33R 2W 5% Metalloxydwiderstand	33R 2W 5% Metal oxide resistor	33R 2W 5% Resistance metallique
RL47	411.198.02 S	3R3 0,35W 5% Sicherheitswiderstand	3R3 0,35W 5% Fusible resistor	3R3 0,35W 5% Résistance fusible
RL90	004.114.2109	432KR 0,4W 1% Metallfilmwiderstand	432KR 0,4W 1% Metal film resistor	432KR 0,4W 1% Resistance metall.
RP01	102.838.40	2R7 2,5W 5% Drahtwiderstand	2R7 2,5W 5% Wire resistor	2R7 2,5W 5% Resistance bobine
RP02	309.540.641	470KR 0,7W 5% Schichtwiderstand	470KR 0,7W 5% Film resistor	470KR 0,7W 5% Resist. a couche
RP03	309.560.952	25R PTC-Widerstand	25R PTC resistor	25R Resistance CTP
RP10	490.008.0173	220KR 0,4W 1% Metallfilmwiderstand	220KR 0,4W 1% Metal film resistor	220KR 0,4W 1% Resistance metall.
RP11	490.008.0173	220KR 0,4W 1% Metallfilmwiderstand	220KR 0,4W 1% Metal film resistor	220KR 0,4W 1% Resistance metall.
RP12	490.008.0173	220KR 0,4W 1% Metallfilmwiderstand	220KR 0,4W 1% Metal film resistor	220KR 0,4W 1% Resistance metall.
RP13	100.092.80	270R 5W 5% Drahtwiderstand	270R 5W 5% Wire resistor	270R 5W 5% Resistance bobine
RP32	339.537.716 S	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor	10R 0,3W 5% Resistance fusible
RP40	339.537.717 S	1R 0,3W 5% Sicherheitswiderstand	1R 0,3W 5% Fusible resistor	1R 0,3W 5% Résistance fusible
RP49	406.517	10MR 0,7W 5% Schichtwiderstand	10MR 0,7W 5% Film resistor	10MR 0,7W 5% Resist. a couche
RP50	309.556.316	150R 3W 5% Drahtwiderstand	150R 3W 5% Wire resistor	150R 3W 5% Resistance bobine
RS12	309.533.636 S	18R 0,3W 5% Sicherheitswiderstand	18R 0,3W 5% Fusible resistor	18R 0,3W 5% Resistance fusible
RS87	400.164 S	4R7 0,3W 5% Sicherheitswiderstand	4R7 0,3W 5% Fusible resistor	4R7 0,3W 5% Résistance fusible
RS88	400.164 S	4R7 0,3W 5% Sicherheitswiderstand	4R7 0,3W 5% Fusible resistor	4R7 0,3W 5% Résistance fusible
RX14	339.537.716 S	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor	10R 0,3W 5% Resistance fusible
RX32	339.537.716 S	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor	10R 0,3W 5% Resistance fusible
TB18	309.001.226	BC558B Transistor	BC558B Transistor	BC558B Transistor
TF29	309.001.293	BC548B Transistor	BC548B Transistor	BC548B Transistor
TH01	249.063	BC847B Transistor SMD	BC847B Transistor	BC847B Transistor
TH02	242.012	BC858/C Transistor SMD	BC858/C Transistor	BC858/C Transistor
TH03	242.012	BC858/C Transistor SMD	BC858/C Transistor	BC858/C Transistor
TH04	242.012	BC858/C Transistor SMD	BC858/C Transistor	BC858/C Transistor
TH05	339.556.787	BC337-40 Transistor	BC337-40 Transistor	BC337-40 Transistor
TI10	339.553.077	DTC144EK Transistor	DTC144EK Transistor	DTC144EK Transistor
TI20	905.613.25	BF771 Transistor SMD	BF771 Transistor	BF771 Transistor
TI70	339.555.241	BC848B Transistor SMD	BC848B Transistor	BC848B Transistor
TL19	309.001.371	BUH517TH Transistor	BUH517TH Transistor	BUH517TH Transistor
TL19C	261.825	Montageclip 1	Clip 1	Agrafe 1
TL30	309.001.293	BC548B Transistor	BC548B Transistor	BC548B Transistor
TL31	339.556.787	BC337-40 Transistor	BC337-40 Transistor	BC337-40 Transistor
TL41	450.493.00	BD681 Transistor	BD681 Transistor	BD681 Transistor
TL41B	252.593	Silikon-scheibe	Silicon plate	Rondelle silicone
TL41C	703.966.00	Montageclip	Clip	Agrafe
TL60	309.001.293	BC548B Transistor	BC548B Transistor	BC548B Transistor
TP16	102.375.50	STP6NA60FI Trans.PWR-SWITCH	STP6NA60FI Trans.PWR-SWITCH	STP6NA60FI Trans.PWR-SWITCH
TP16C	261.827	Montageclip	Clip	Agrafe

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