

THOMSON 28DG40E

nicam television set 4/3 format

Chassis code ICCI9-2H
100 Hz IM technology
28 inch - 4/3 format
FST tube
Black Matrix processing
INVAR mask
Stereo sound
Nicam 2 x 20W
Built-in teletext
Standard : PAL / SECAM
NTSC via SCART connector
Norms : PanEuro-LL'BGIDKK'
NAVILIGHT system



- image
- sound
- special features
- connectors / general remarks



image

FST 28 inch tube - 4/3 format
BLACK MATRIX
Black Matrix processing for optimal contrast
INVAR mask
Intelligent contrast control
100Hz Intelligent Mastering
Zoom
Manual switch to 16/9 format
Total tube size : 28 inch diagonal
Picture size : 26 inch diagonal
Standard : PAL / SECAM / NTSC via Vidéo
Norms : PanEuro-LL'BGIDKK'
Toptext/Fasttext/Videotext EPG 2 : 488 pages



sound

Stereo sound NICAM L/BG/I
Power : 2 x 20 W music
4 speakers : 2 mediums, 2 tweeters
Spatial effects / pseudo
Acoustic system
Control bass - treble



special features

Automatically switches to standby mode when no signal is present after 5 minutes
Child lock
Sleep control
Wake up timer
NAVILIGHT system
Display of channel number
Memorize up to 99 channels + 3 AV channels
Personal value memory
Frequency synthesis tuner
Compatible with cable networks
8 MHz hyperband
RCT100 remote control

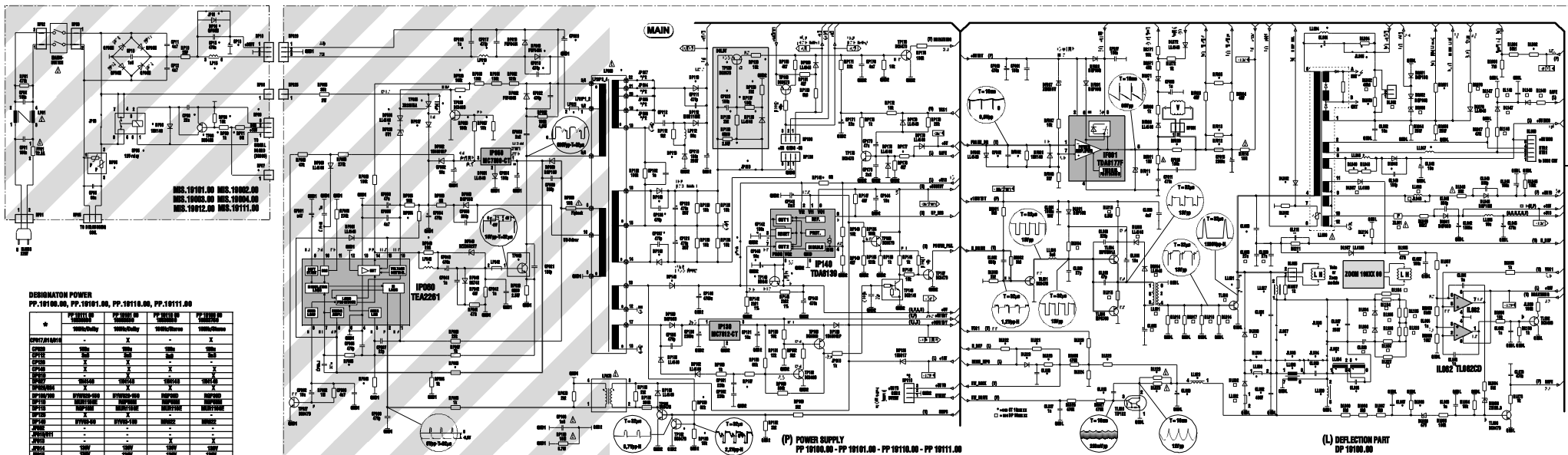


connectors / general remarks

Headphone jack (6.35 mm)
Front or side : cinches in : 2 Audio/1 Vidéo/1 S-vidéo
Rear : 1 antenna connector
3 SCART connectors including 1 S-VHS compatible
2 cinches audio out
Power supply : 220 - 240 V; 50/60 Hz
Consumption : 130 W/h - in stand-by mode 6 W/h
Weight : 31 kg
Dimensions (W x H x D) : 700 x 542 x 462 mm
Optional stand : ST TH2850



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



DESIGNATION POWER
PP 10106.00, PP 10101.00, PP 10110.00, PP 10111.00

	PP 10106.00	PP 10101.00	PP 10110.00	PP 10111.00
CP01	100000	100000	100000	100000
CP02	100000	100000	100000	100000
CP03	100000	100000	100000	100000
CP04	100000	100000	100000	100000
CP05	100000	100000	100000	100000
CP06	100000	100000	100000	100000
CP07	100000	100000	100000	100000
CP08	100000	100000	100000	100000
CP09	100000	100000	100000	100000
CP10	100000	100000	100000	100000
CP11	100000	100000	100000	100000
CP12	100000	100000	100000	100000
CP13	100000	100000	100000	100000
CP14	100000	100000	100000	100000
CP15	100000	100000	100000	100000
CP16	100000	100000	100000	100000
CP17	100000	100000	100000	100000
CP18	100000	100000	100000	100000
CP19	100000	100000	100000	100000
CP20	100000	100000	100000	100000
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CP97	100000	100000	100000	100000
CP98	100000	100000	100000	100000
CP99	100000	100000	100000	100000
CP100	100000	100000	100000	100000

X Inserted
- Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Parte dello chassis collegata alla rete.
Parte dello chassis conectada a la red.

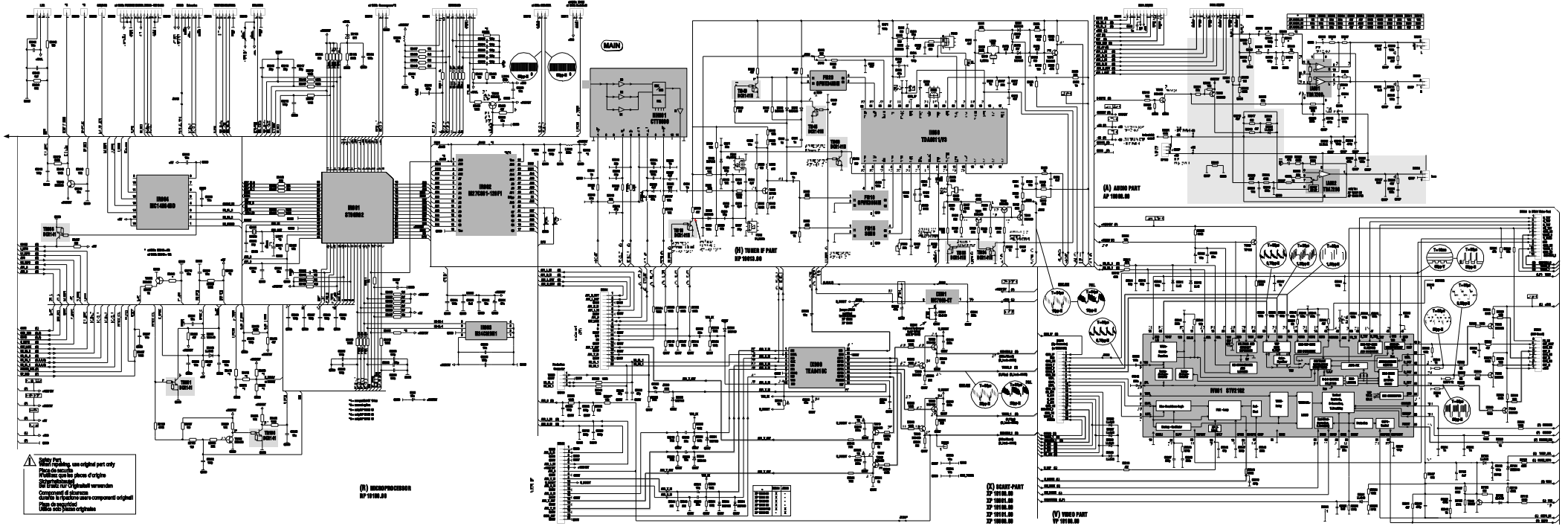
Use isolating mains transformer
Utilisez un transformateur bobineur de secteur
Eisen Trenntrio verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarti dalla rete

Safety Part
When repairing, use original part only
Pièce de sécurité
N'utilisez que les pièces d'origine
Sicherheitsbauteile
Bei Ersatz nur Originalteile verwenden
Componenti di sicurezza
durante la riparazione usare componenti originali
Pieza de seguridad
Utilice solo piezas originales

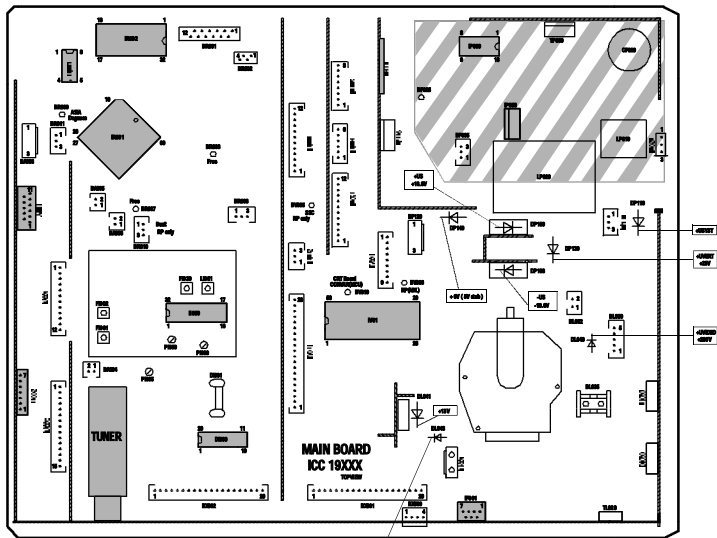
Note :
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attention :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (GND1).
Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (GND1).
Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (GND1).
Cuidado :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Indicatore - Index Partibus					
CT 1905 31	100000	100000	100000	100000	100000
CT 1905 32	100000	100000	100000	100000	100000
CT 1905 33	100000	100000	100000	100000	100000
CT 1905 34	100000	100000	100000	100000	100000
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CT 1905 73	10				

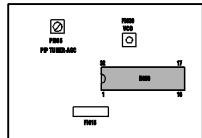
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LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES -
SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO -
SITUACIÓN DE LOS AJUSTES



RF-IF PART FEP 19100 PIP



Do not disconnect modules when they are energized!
Réglez en power supply section are to be carried out
only with leading hand.

Ne pas retirer les modules lorsqu'ils sont sous tension.
N'effectuer les travaux de maintenance sur la partie
réglée au secteur (Switch mode) qu'après l'arrêt d'un
transformateur d'alimentation.

Module nicht bei eingeschalteter Netz trennen!
Servisarbeiten am Netzteil nur unter Verwendung eines
Regelventilators durchführen.

Non scollegare i moduli quando sono alimentati!
I regolatori (switch mode) nella sezione rete solo
con trasformatore separato.

Ne desconectar los módulos cuando están encendidos!
Las reparaciones en la sección de alimentación de energía
deben ser ejecutadas únicamente con un transformador de
separación.

Part of Board connected to mains supply.
Partie du châssis reliée au secteur.
Rifornimento da Nucleo
Parte del pannello collegata alla rete di alimentazione
Parte del chassis conectada a la red

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

U Sys	SERVICE MODE	Standard TV - Settings : OMA Position TV to AV1 : Black test pattern		TUBE NAME DESCRIPTION Uys Uysr	Uys Uysr
IF Alignment	FD30	Switch set to standard BG		Adjust F80 / P164 for 2,5VDC +/-0.1V	
VCO Standard BG	PI030	Standard Signal BG (I)		Adjust PI030 : standard BG Adjust PI035 : standard L for V = 0.7 Vpp (Black/white level)	
VIDEO-LEVEL Alignment	PI030 PI035	Standard Signal BG (I) 15kHz test pattern		Adjust PI030 : standard BG Adjust PI035 : standard L for V = 0.7 Vpp (Black/white level)	
U G2 METHOD 1 Measurement method	G2 poten-tiometer (SFB) or R2 (NBD/FS 1930) according to models	Standard TV - Settings : OMA Position TV to AV1 : Black test pattern		CRT 1910X (100Hz): R signal : IB01 Pin 15 G signal : IB08 Pin 15 B signal : IB02 Pin 15	1 - Adjust VG2 : V= 160V +/- 5 V 2 - Adjust Focus 3 - Adjust VG2 : V= 160V +/- 3V
METHOD 2 Cut-off counter method	SERVICE MODE	Standard TV - Settings : OMA Position No test pattern (generated by internal test processor).		Initially set R_Cut-off and Q_Cut-off to 50H. Select G2 Alignment in Service Mode Adjust the lowest value to: Select "Random" in Service Mode and press "OK" to restore the cut-off values.	Tube Type Value --- --- AR86W 50H AR86L 50H AR86D 50H AR86G 50H AR86A --- AR86FX 50H WR86V 50H WR86G 50H WR86X 50H WR86K 50H WR86P 50H WR86L 50H
FOCUS	FOCUS			Sharp picture	

FOCUS ADJUSTMENT FOR EXTRA FLAT TUBE (XF) - REGLAGE FOCUS POUR LES TUBES EXTRA
PLATS (XF) - FOKUS-EINSTELLUNG BEI EXTRA FLAT-BILDROHREN (XF) - REGOLAZIONE FUOCO PER
TUBI EXTRA FLAT (XF) - AJUSTE DEL FOCO PARA T.R.C. EXTRAPLANO (XF)

FOCUS	TV : AV1 Standard TV - Settings : 	Test pattern Standard TV - Settings : 		Sharp picture
FOCUS DFB	PN601	GB 1 - Turn PN601 fully anticlockwise. 2 - Using PN600 adjust the focus of the centre section of the top horizontal line i.e. finest line without "flare". 3 - Using PN601 adjust the focus of the vertical line at the edge of the screen i.e. finest line without "flare". 4 - Re-adjust the focus of the centre section of the top horizontal line with PN600 if necessary.		1 - Tourner PN601 à fond dans le sens inverse des aiguilles d'une montre. 2 - Régler PN600 pour obtenir le centre de la ligne horizontale en haut d'écran la plus fine possible. 3 - Régler PN601 pour obtenir la ligne verticale au bord la plus fine possible. 4 - Retoucher PN600 sur le centre de la ligne horizontale en haut d'écran à cette dernière a été affectée par PN601.
	PN600	F 1 - Tourner PN601 à fond dans le sens inverse des aiguilles d'une montre. 2 - Régler PN600 pour obtenir le centre de la ligne horizontale en haut d'écran la plus fine possible. 3 - Régler PN601 pour obtenir la ligne verticale au bord la plus fine possible. 4 - Retoucher PN600 sur le centre de la ligne horizontale en haut d'écran à cette dernière a été affectée par PN601. D 1 - Drehen Sie PN601 im senso antiorario. 2 - Stellen Sie mit PN600 die Schärfe in der Mitte der obersten horizontalen Zeile auf Maximum (ohne Nachschleife) ein. 3 - Stellen Sie die Schärfe der vertikalen Linien in den Ecken auf Maximum (ohne Nachschleife) ein. 4 - Falls notwendig, wiederholen Sie die Einstellung der Blöckschärfe in der Mitte der obersten horizontalen Zeile mit PN600. I 1 - Ruotare PN601 in senso antiorario. 2 - Regolare la focalizzazione centrale della linea orizzontale nella parte alta dello schermo con PN600. Il più acuto possibile senza "flare". 3 - Regolare PN601 per avere la righe verticali al lati dello schermo il più acuto possibile senza "flare". 4 - Regolare se necessario PN600 per avere un'ottima focalizzazione centrale della linea orizzontale nella parte alta dello schermo. E 1 - Girar PN601 totalmente en sentido antiorario. 2 - Ajustar el enfoque con PN600 para obtener la parte central de líneas horizontal de la parte superior de la pantalla lo más fina posible. 3 - Ajustar PN601 para obtener las líneas verticales lo más fina posible y sin rebordes. 4 - Reajustar con PN600 el enfoque en el centro de la parte superior de la pantalla, si es necesario.		

RF / IF PART FEP 19100 PIP

IF Alignment	FD30	Switch set to standard BG		Adjust F80 for 2,5VDC +/-0.1V
VCO Standard BG	PI030	Standard Signal BG (I)		Adjust PI030 : standard BG Adjust PI035 : standard L for V = 0.7 Vpp (Black/white level)
TUNER-ACC	PI060	Standard Signal 210.25 MHz		Adjust PI060 : Medium level Reduce level with PI60 about 10dB.

ALIGNMENT PROCEDURE - PROCESBUS DE REGLAJES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMENTO DE ALINEACION

Menu screen for alignment procedure with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

Menu screen for 'SETUP' with options for 'Auto', 'Manual', and 'Reset'.

Menu screen for 'SECURITY' with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

Menu screen for 'SECURITY' with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

Menu screen for 'VIDEO' with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

Menu screen for 'VIDEO' with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

Menu screen for 'SERIAL CODE' with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

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Menu screen for 'SERIAL CODE' with fields for 'V.M.P. DOWN' and 'CH-SELECT'.

ERROR CODES

Table of error codes with columns for code number, description, and resolution steps.

GEOMETRY MODE ALIGNMENT - 100Hz VERSION

Diagrams and instructions for geometry mode alignment, including signal patterns and adjustment steps.

Vertical text column containing detailed instructions for alignment procedure.

Vertical text column containing detailed instructions for alignment procedure.

Vertical text column containing detailed instructions for alignment procedure.

Vertical text column containing detailed instructions for alignment procedure.

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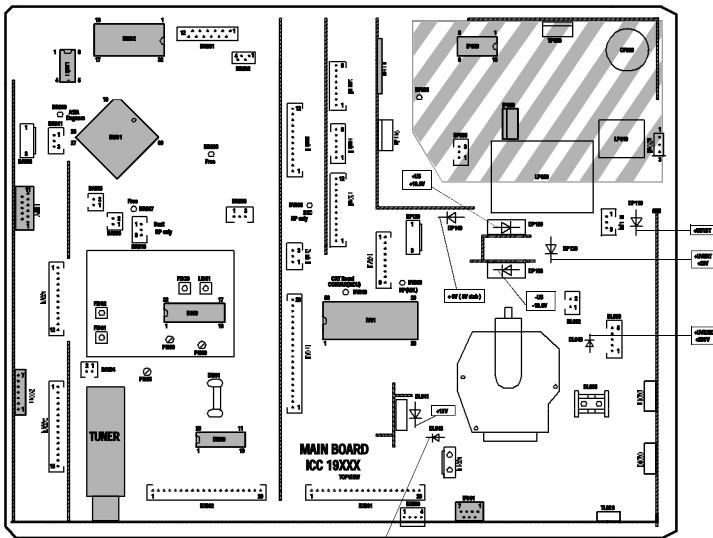
Vertical text column containing detailed instructions for alignment procedure.

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



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

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VCO Standard BG	PI030 PI035	Standard Signal BG (1) 15kHz test pattern TV set Antenna		Adjust PI030 : standard BG Adjust PI035 : standard L for V = 0.7 Vpp (Black/white level)																																																											
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METHOD 2 Cut-off counter method	SERVICE MODE	Standard TV - Settings : OMA Position No test pattern (generated by internal test processor)		Initially set R_Cut-off and Q_Cut-off to 50H. Select G2 Alignment in Service Mode Adjust the lowest value to: <table border="1"> <tr><th>Tube Type</th><th>Value</th></tr> <tr><td>AR85W</td><td>50H</td></tr> <tr><td>AR85L</td><td>50H</td></tr> <tr><td>AR85G</td><td>50H</td></tr> <tr><td>AR85D</td><td>50H</td></tr> <tr><td>AR85A</td><td>50H</td></tr> <tr><td>AR85C</td><td>50H</td></tr> <tr><td>AR85E</td><td>50H</td></tr> <tr><td>AR85F</td><td>50H</td></tr> <tr><td>AR85G</td><td>50H</td></tr> <tr><td>AR85H</td><td>50H</td></tr> <tr><td>AR85I</td><td>50H</td></tr> <tr><td>AR85J</td><td>50H</td></tr> <tr><td>AR85K</td><td>50H</td></tr> <tr><td>AR85L</td><td>50H</td></tr> <tr><td>AR85M</td><td>50H</td></tr> <tr><td>AR85N</td><td>50H</td></tr> <tr><td>AR85O</td><td>50H</td></tr> <tr><td>AR85P</td><td>50H</td></tr> <tr><td>AR85Q</td><td>50H</td></tr> <tr><td>AR85R</td><td>50H</td></tr> <tr><td>AR85S</td><td>50H</td></tr> <tr><td>AR85T</td><td>50H</td></tr> <tr><td>AR85U</td><td>50H</td></tr> <tr><td>AR85V</td><td>50H</td></tr> <tr><td>AR85W</td><td>50H</td></tr> <tr><td>AR85X</td><td>50H</td></tr> <tr><td>AR85Y</td><td>50H</td></tr> <tr><td>AR85Z</td><td>50H</td></tr> </table> Select "Rastore" in Service Mode and press "OK" to restore the cut-off values.	Tube Type	Value	AR85W	50H	AR85L	50H	AR85G	50H	AR85D	50H	AR85A	50H	AR85C	50H	AR85E	50H	AR85F	50H	AR85G	50H	AR85H	50H	AR85I	50H	AR85J	50H	AR85K	50H	AR85L	50H	AR85M	50H	AR85N	50H	AR85O	50H	AR85P	50H	AR85Q	50H	AR85R	50H	AR85S	50H	AR85T	50H	AR85U	50H	AR85V	50H	AR85W	50H	AR85X	50H	AR85Y	50H	AR85Z	50H	
Tube Type	Value																																																														
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FOCUS	FOCUS	Test pattern (standard values)		Sharp picture																																																											

FOCUS ADJUSTMENT FOR EXTRA FLAT TUBE (XF) - REGLAGE FOCUS POUR LES TUBES EXTRA PLATS (XF) - FOKUS-EINSTELLUNG BEI EXTRA FLAT-BILDROHREN (XF) - REGOLAZIONE FUOCO PER TUBI EXTRA FLAT (XF) - AJUSTE DEL FOCO PARA T.R.C. EXTRAPLANO (XF)

FOCUS	TV : AV1 Standard TV - Settings : 	Test pattern Standard TV - Settings : 	Sharp picture
FOCUS D/FB	PN801	<ol style="list-style-type: none"> 1 - Turn PN801 fully anticlockwise. 2 - Using PN800 adjust the focus of the centre section of the top horizontal line i.e. finest line without "flare". 3 - Using PN801 adjust the focus of the vertical line at the edge of the screen i.e. finest line without "flare". 4 - Re-adjust the focus of the centre section of the top horizontal line with PN800 if necessary. 	
	PN800	<ol style="list-style-type: none"> 1 - Tourner PN801 à fond dans le sens inverse des aiguilles d'une montre. 2 - Régler PN800 pour obtenir le centre de la ligne horizontale en haut d'écran la plus fine possible. 3 - Régler PN801 pour obtenir la ligne verticale au bord de l'écran la plus fine possible. 4 - Retoucher PN800 sur le centre de la ligne horizontale en haut d'écran à cette dernière a été affectée par PN801. 	
		<ol style="list-style-type: none"> 1 - Drehen Sie PN801 im senso antiorario. 2 - Stellen Sie mit PN800 die Schärfe in der Mitte der obersten horizontalen Zeile auf Maximum (ohne Nachschleife) ein. 3 - Stellen Sie die Schärfe der vertikalen Linien in den Ecken auf Maximum (ohne Nachschleife) ein. 4 - Falls notwendig, wiederholen Sie die Einstellung der Blöckchärfe in der Mitte der obersten horizontalen Zeile mit PN800. 	
		<ol style="list-style-type: none"> 1 - Ruotare PN801 in senso antiorario. 2 - Regolare la focalizzazione centrale della linea orizzontale nella parte alta dello schermo con PN800. Il più acuto possibile senza "flare". 3 - Regolare PN801 per avere la righe verticali ai lati dello schermo il più acuto possibile senza "flare". 4 - Regolare se necessario PN800 per avere un'ottima focalizzazione centrale della linea orizzontale nella parte alta dello schermo. 	
		<ol style="list-style-type: none"> 1 - Girar PN801 totalmente en sentido antiorario. 2 - Ajustar el enfoque con PN800 para obtener la parte central de líneas horizontal de la parte superior de la pantalla lo más fina posible. 3 - Ajustar PN801 para obtener las líneas verticales lo más finas posible y sin rebordes. 4 - Reajustar con PN800 el enfoque en el centro de la parte superior de la pantalla, si es necesario. 	

RF / IF PART FEP 19100 PIP

IF Alignment	FD30	Switch set to standard BG		Adjust F80 for 2,5VDC +/-0.1V
VCO Standard BG	PI030 PI035	Standard Signal BG (1) 15kHz test pattern TV set Antenna		Adjust PI030 : Medium level Reduce level with PI50 about 10dB.
TUNER-ACC	PI050	Signal 210.25 MHz 3 mV		

ALIGNMENT PROCEDURE - PROCESBUS DE REGLAJES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMENTO DE ALINEACION

STEP 1 menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-SELECT.

STEP 2 menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-CHANGE.

SECURITY menu with fields for Field Name, Value, and various adjustment options like V-DOWN and CH-CHANGE.

SECURITY menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-CHANGE.

VIDEO menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-CHANGE.

VIDEO menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-CHANGE.

SECURITY CODE menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-CHANGE.

PIP menu with fields for Input, Output, and various adjustment options like V-DOWN and CH-CHANGE.

ERROR CODES

GE menu with error codes and descriptions.

F menu with error codes and descriptions.

D menu with error codes and descriptions.

GEOMETRY MODE ALIGNMENT - 100Hz VERSION

4/3 picture tube Signal: 4:3 test pattern

Alignment diagrams for 4/3 picture tube showing 4:3 standard mode 1, 4:3 standard mode 2, and 4:3 standard mode 3 with corresponding adjustment instructions.

100 picture tube Signal: 4:3 test pattern

Alignment diagrams for 100 picture tube showing 4:3 standard mode 1, 4:3 standard mode 2, and 4:3 standard mode 3 with corresponding adjustment instructions.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

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Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

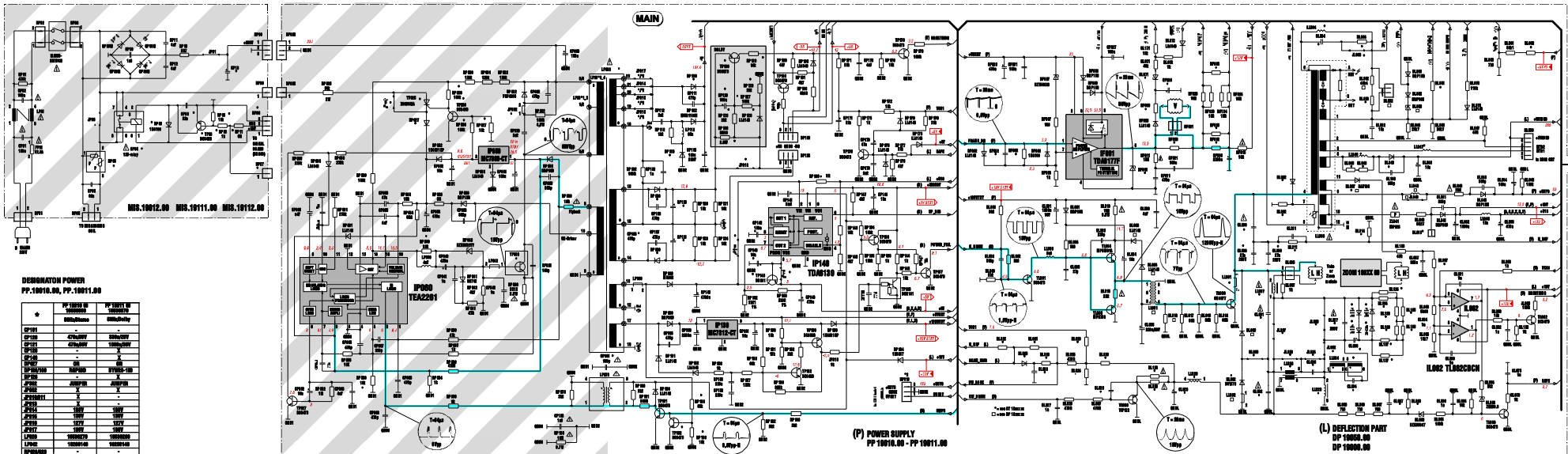
Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

Vertical text block containing detailed technical instructions and notes for the alignment procedure.

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



DESIGNATION POWER
PP 19010.00, PP 19011.00

Symbol	Designation	Value
□	Resistor	Value
○	Capacitor	Value
△	Diode	Value
□	IC	Value
□	Transformer	Value
□	Coil	Value
□	Yoke	Value
□	Other	Value

Subst. Part
When repairing, use original part only
Pièces de rechange
Utilisez que les pièces d'origine
Sicherheitsteil
Bei Ersatz nur Originalteil verwenden
Componenti di sicurezza
Per la riparazione utilizzare solo componenti originali
Piezas de seguridad
Utilice solo piezas originales

Substitution - Subst. Part

Part No.	Subst. Part	Part No.	Subst. Part
01000	01000	01000	01000
01001	01001	01001	01001
01002	01002	01002	01002
01003	01003	01003	01003
01004	01004	01004	01004
01005	01005	01005	01005
01006	01006	01006	01006
01007	01007	01007	01007
01008	01008	01008	01008
01009	01009	01009	01009
01010	01010	01010	01010

Substitution - Pièces de Subst. Part

Part No.	Subst. Part	Part No.	Subst. Part
01000	01000	01000	01000
01001	01001	01001	01001
01002	01002	01002	01002
01003	01003	01003	01003
01004	01004	01004	01004
01005	01005	01005	01005
01006	01006	01006	01006
01007	01007	01007	01007
01008	01008	01008	01008
01009	01009	01009	01009
01010	01010	01010	01010

Substitution - Pièces de Subst. Part

Part No.	Subst. Part	Part No.	Subst. Part
01000	01000	01000	01000
01001	01001	01001	01001
01002	01002	01002	01002
01003	01003	01003	01003
01004	01004	01004	01004
01005	01005	01005	01005
01006	01006	01006	01006
01007	01007	01007	01007
01008	01008	01008	01008
01009	01009	01009	01009
01010	01010	01010	01010

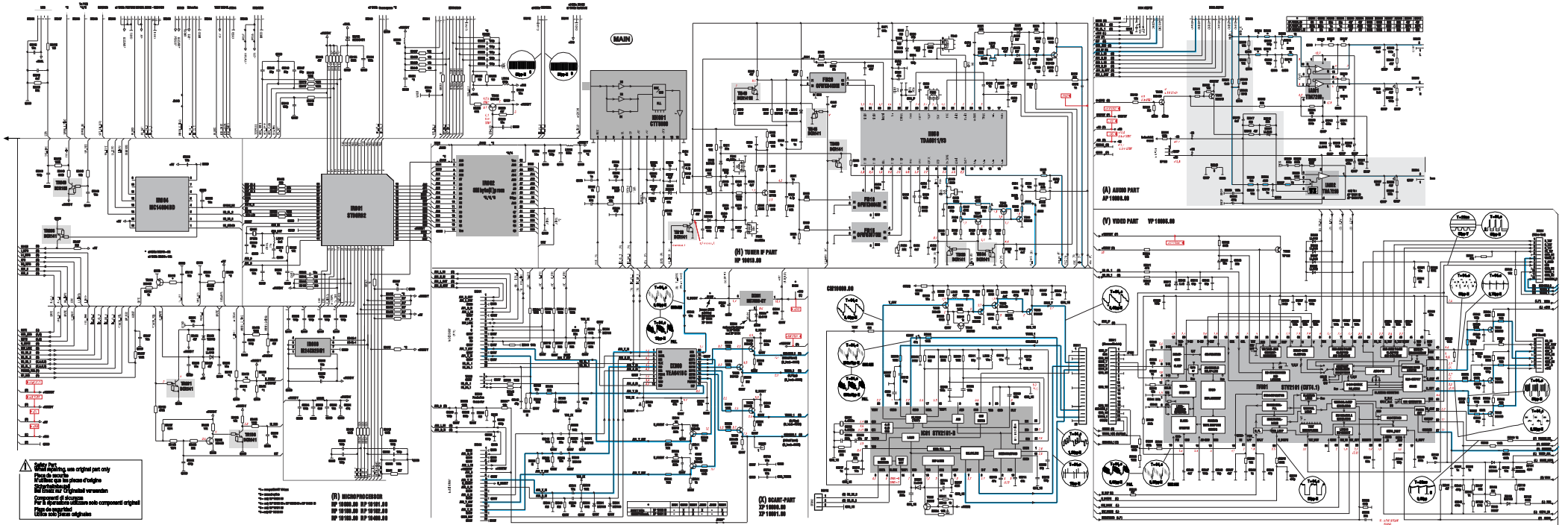
Note: In the last two numbers of the CT code part list name indicates the system voltage.
e.g. CT 19005 31 Uigs 131V →
Note: Los dos últimos números de la denominación CT xxx, indica la tensión Uigs
e.g. CT 19005 31 Uigs 131V →

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Principale des réseaux.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

Note:
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Alimentation :
- Utilisez la masse du bloc alimentation (GND1).
Anfang :
- Primärstrommessung verwenden (GND1).
Alimentação :
- Utilizar a massa do alimentador primário (GND1).
Calle :
- Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Use isolating mains transformer
Utiliser un transformateur isolateur du secteur
Ehren Transformator verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarsi dalla rete

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



⚠ **NOTICE** - Use original part only
 Utilisez uniquement les pièces d'origine
 Gebrauchen Sie Originalkomponenten
 Usare solo i componenti originali
 Usar solo piezas originales

(I) MICROPROCESSOR
 VP 1000L.00 VP 1001L.00
 VP 1002L.00 VP 1003L.00
 VP 1004L.00 VP 1005L.00

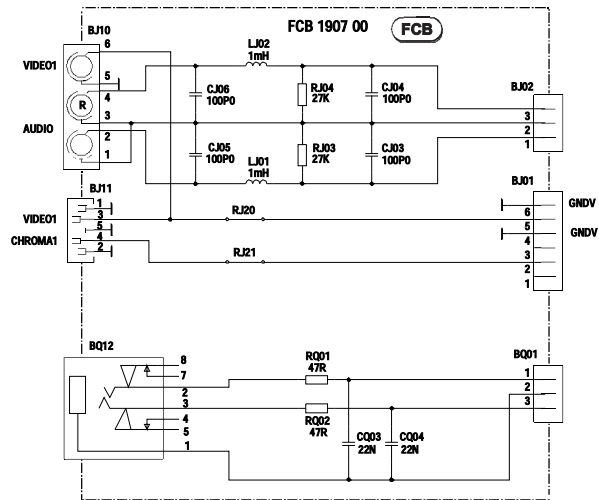
(II) VIDEO PART
 VP 1000L.00
 VP 1001L.00

(A) VIDEO PART VP 1000L.00

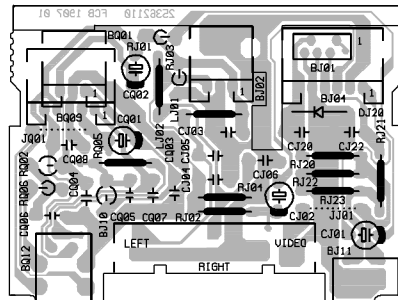
(V) VIDEO PART VP 1000L.00

FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

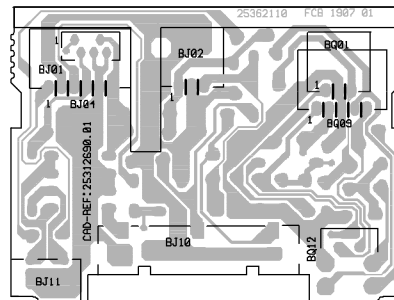
FCB1907



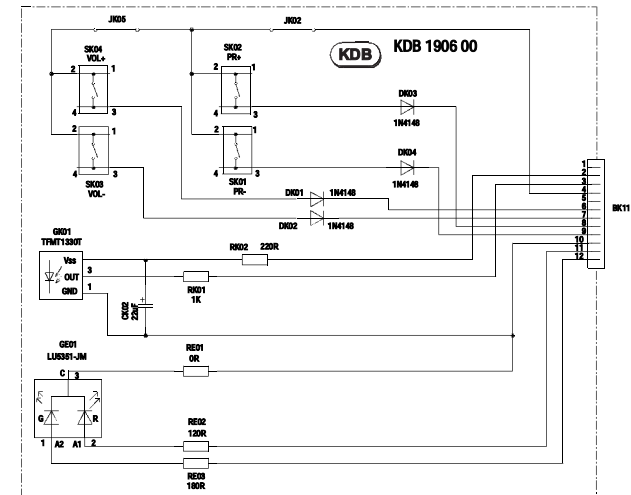
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



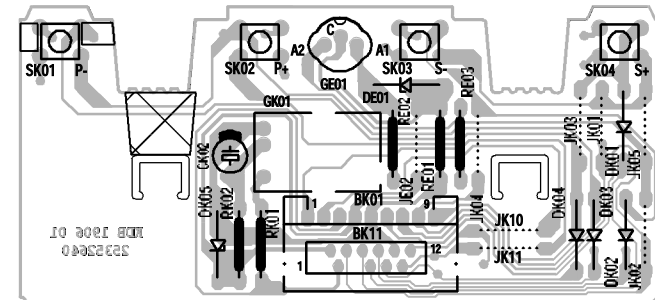
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SILDATURE - LADO SOLDADURAS



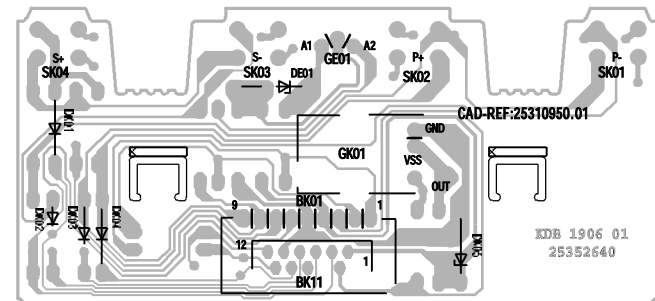
KDB1906



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

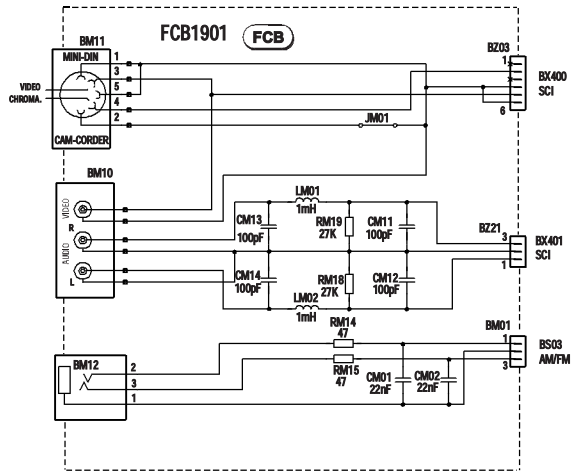


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SILDATURE - LADO SOLDADURAS

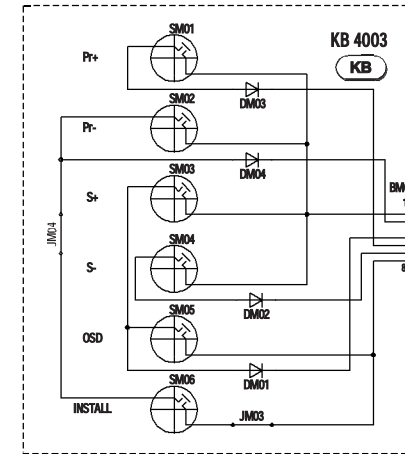


FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

FCB1901



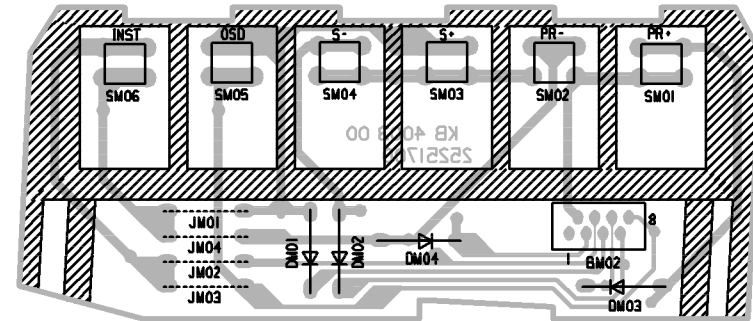
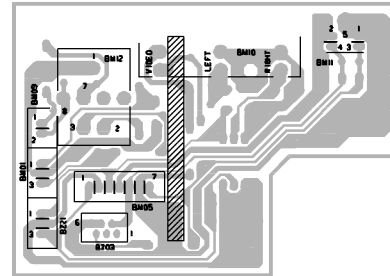
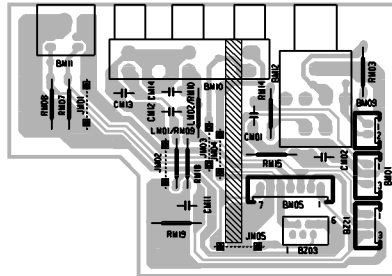
KB 4003



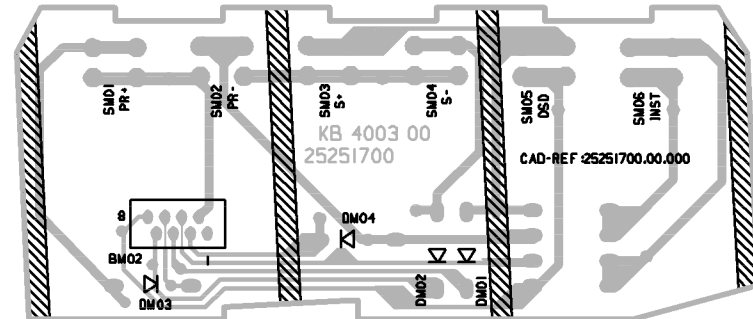
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI LADO COMPONENTES

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

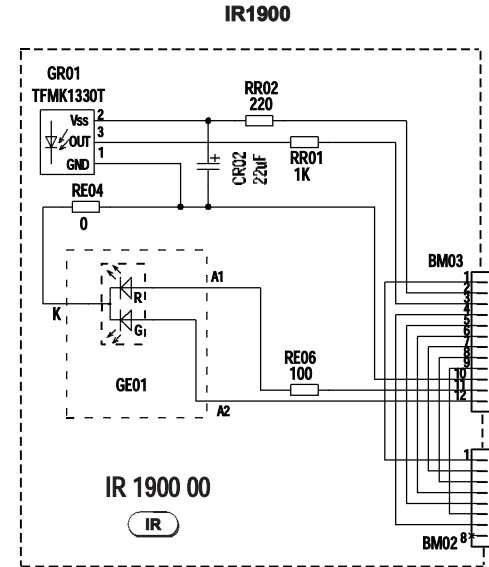
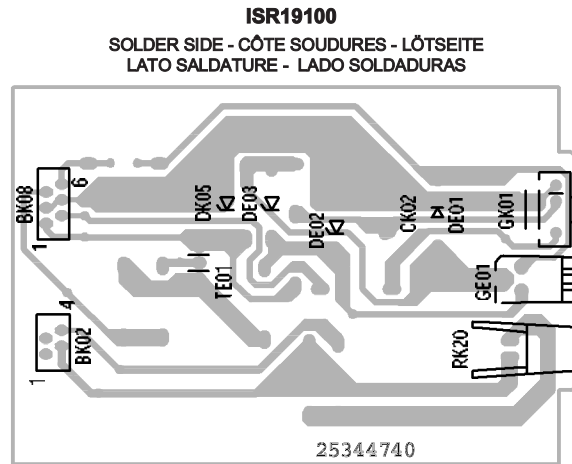
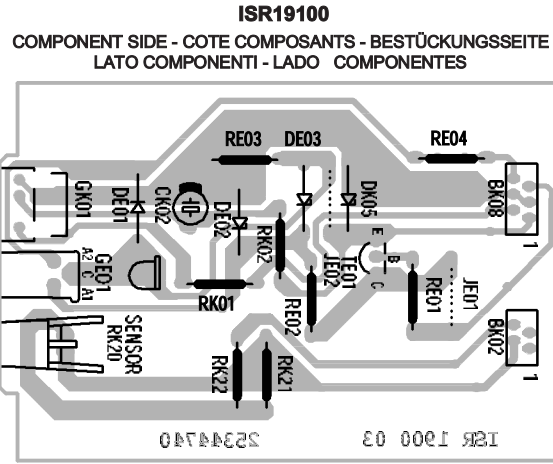
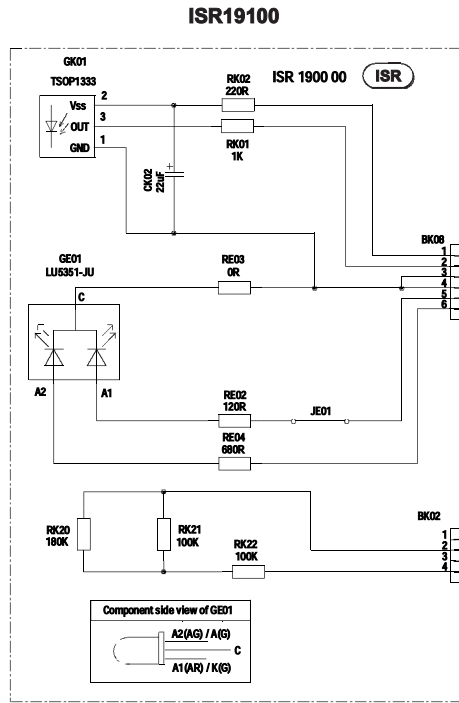
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



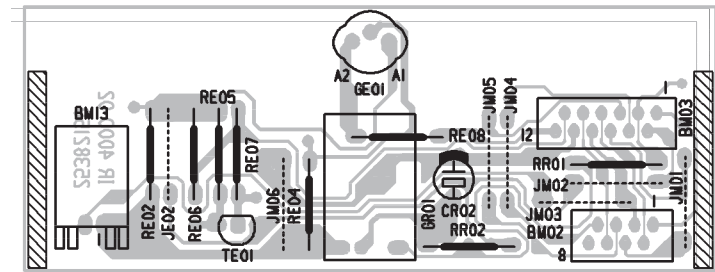
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



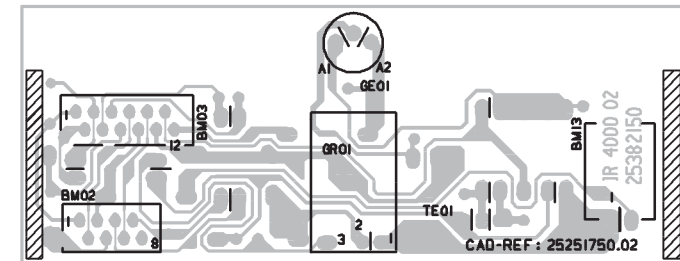
IR RECEIVER - PLATINE RECEPTEUR INFRA-ROUGE - IR EMPFÄNGER - LPTL. PIASTRA RICEVITORE IR - PLATINA RECEPTOR IR



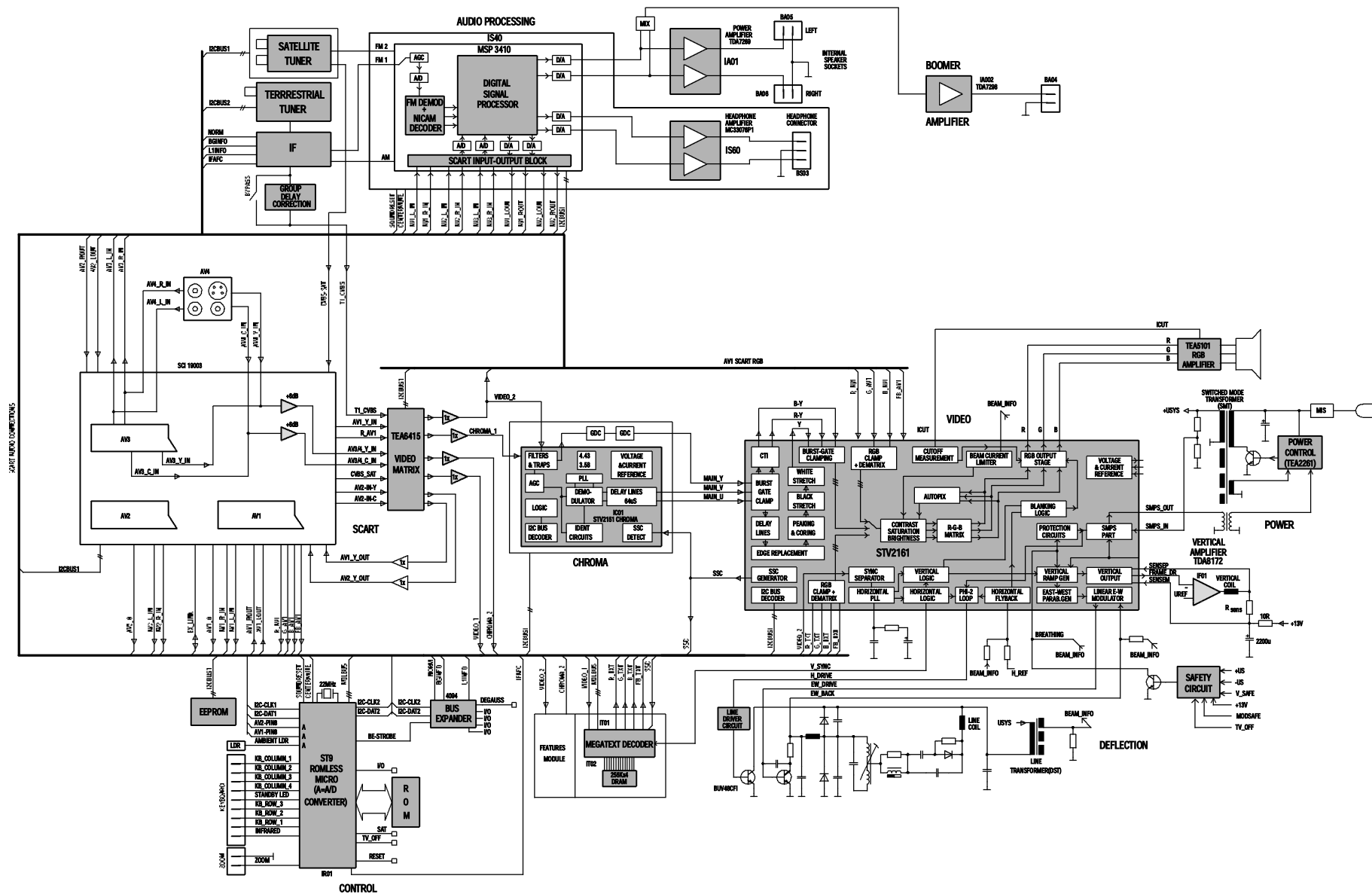
IR1900
 COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE
 LATO COMPONENTI - LADO COMPONENTES



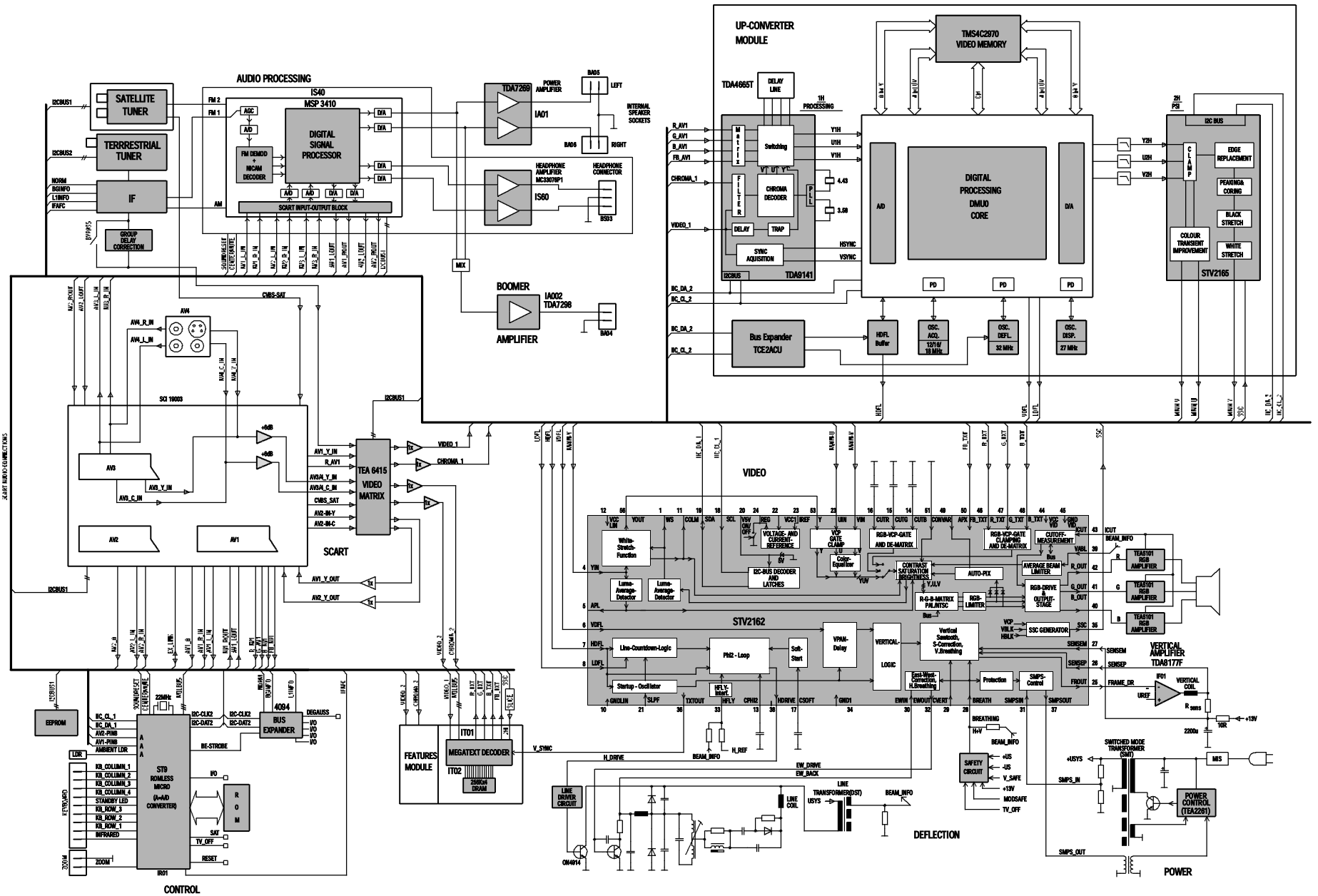
IR1900
 SOLDER SIDE - CÔTE SOUDURES - LÔTSEITE
 LATO SALDATURE - LADO SOLDADURAS



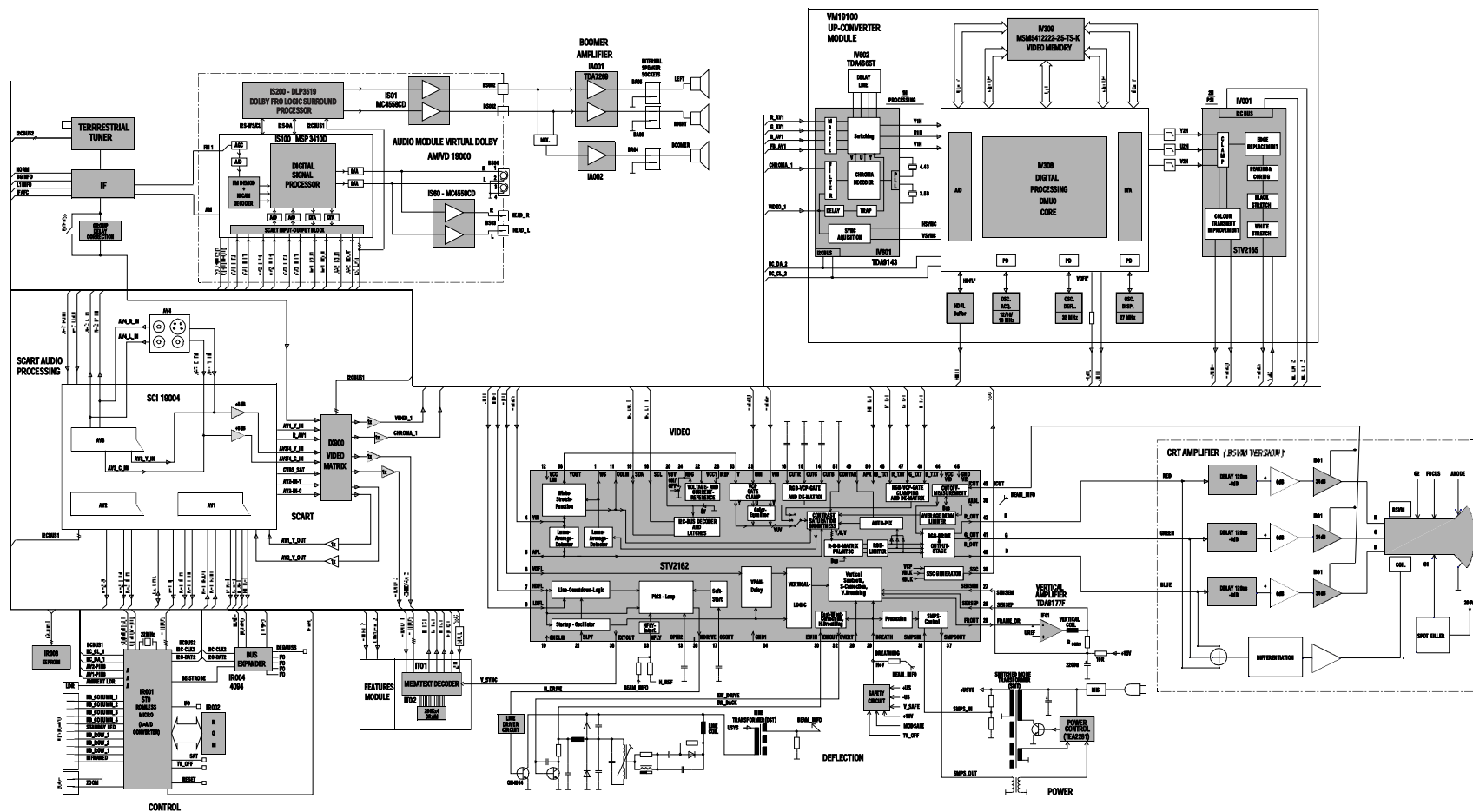
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCI - ESQUEMA DE BLOQUES



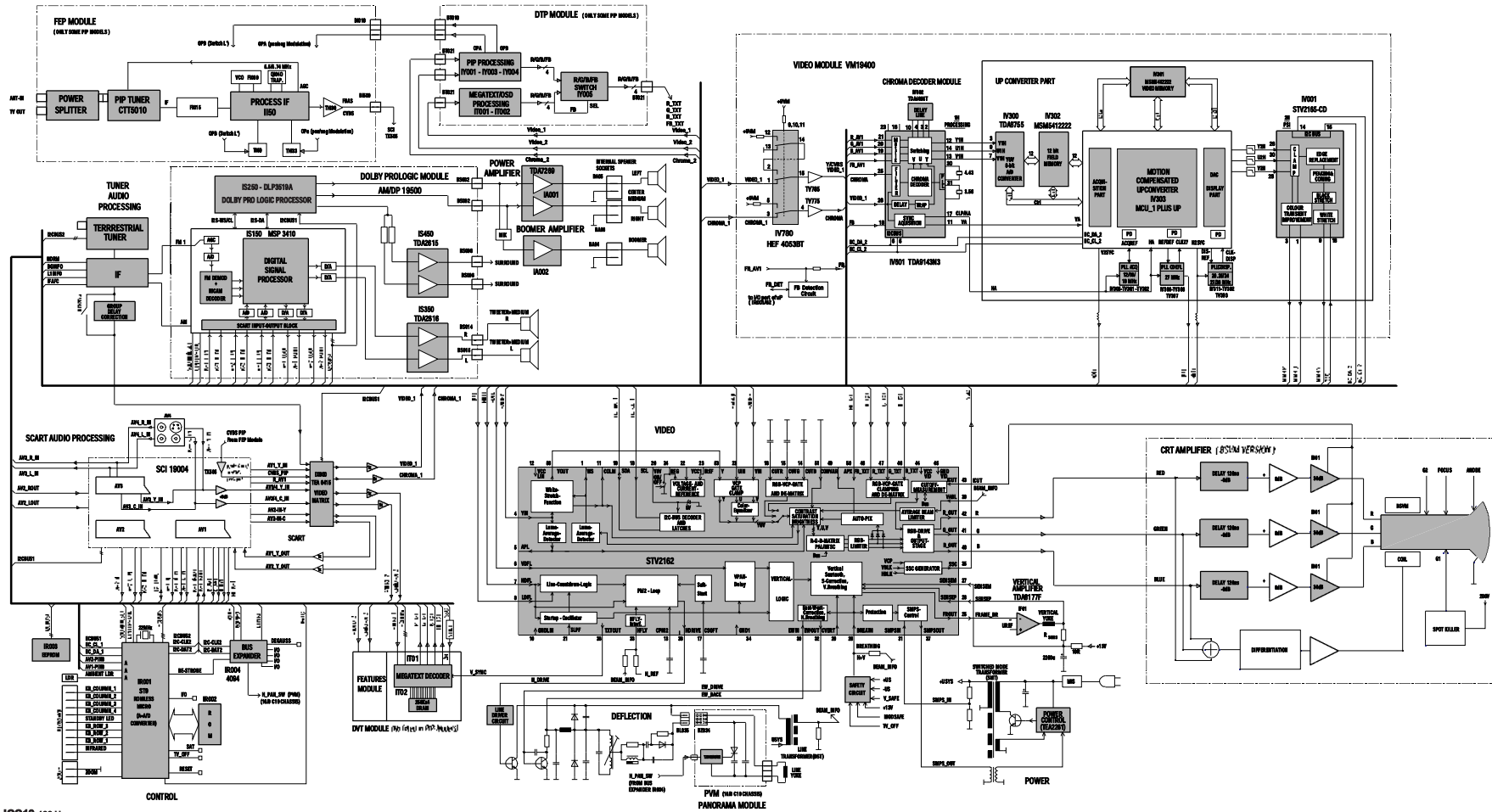
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIKD - SCHEMA A BLOCCI - ESQUEMA DE BLOQUES



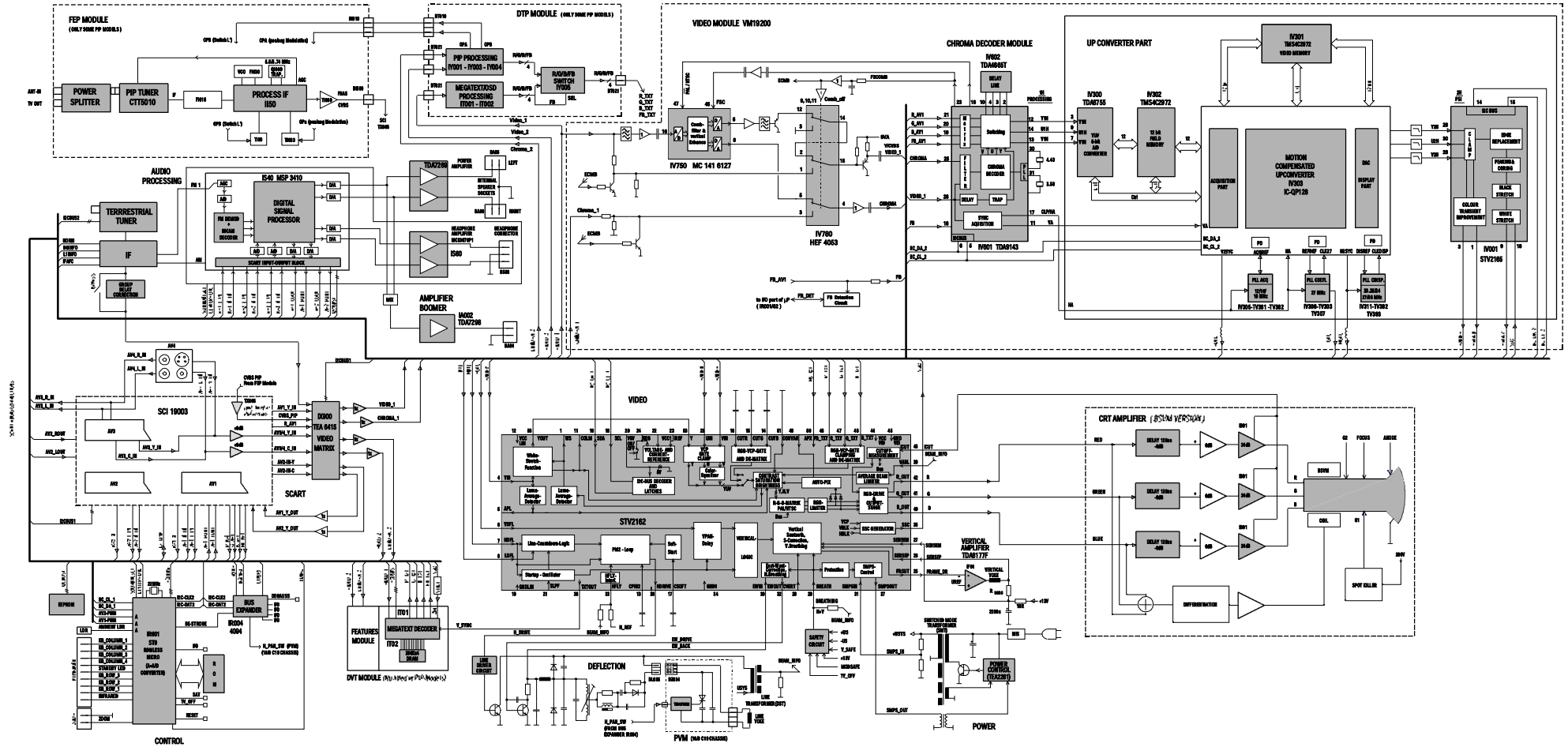
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIID - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES
ICC19 100 Hz - VIRTUAL DOLBY



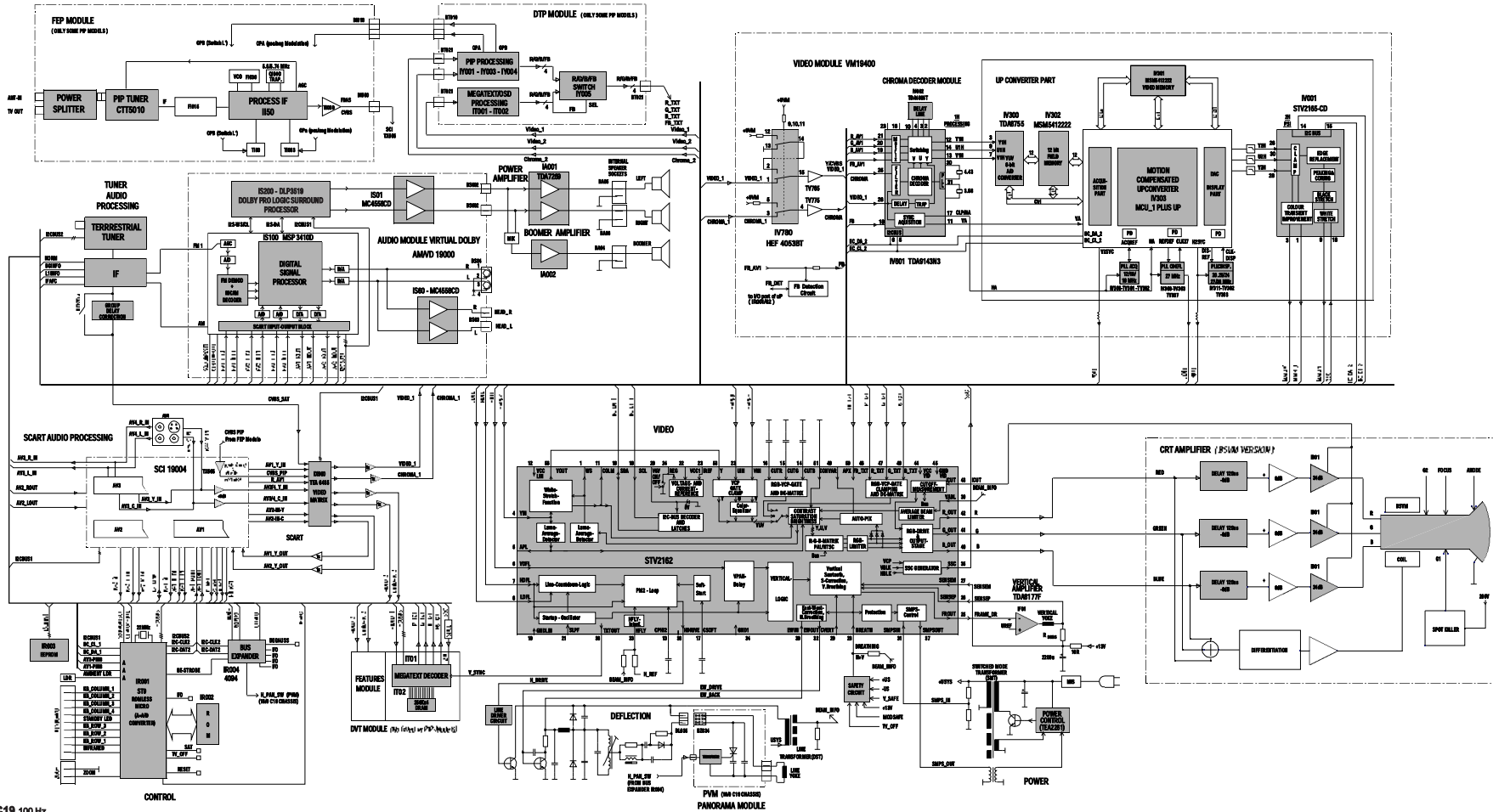
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIKD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES
ICC19 MM 100 Hz - MOTION MASTERING - DOLBY PRO-LOGIC - PIP



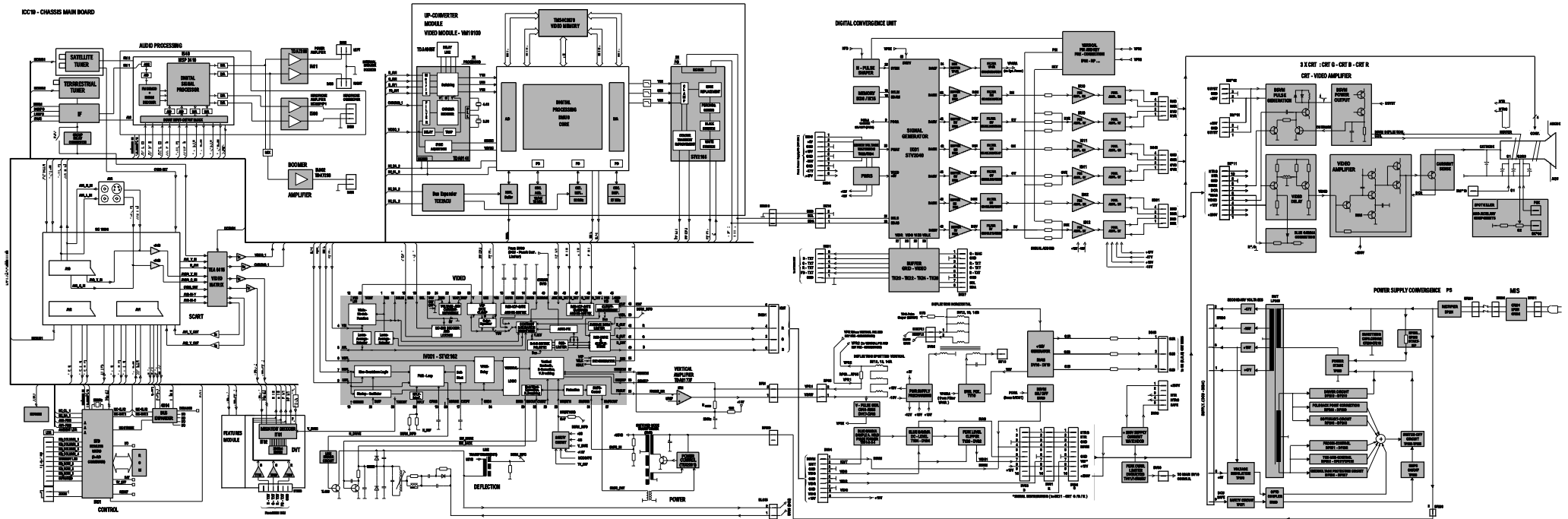
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIID - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES
ICC19 MM 100 Hz - MOTION MASTERING



BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIKD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES
ICC19 100 Hz - MOTION MASTERING - VIRTUAL DOLBY - PIP

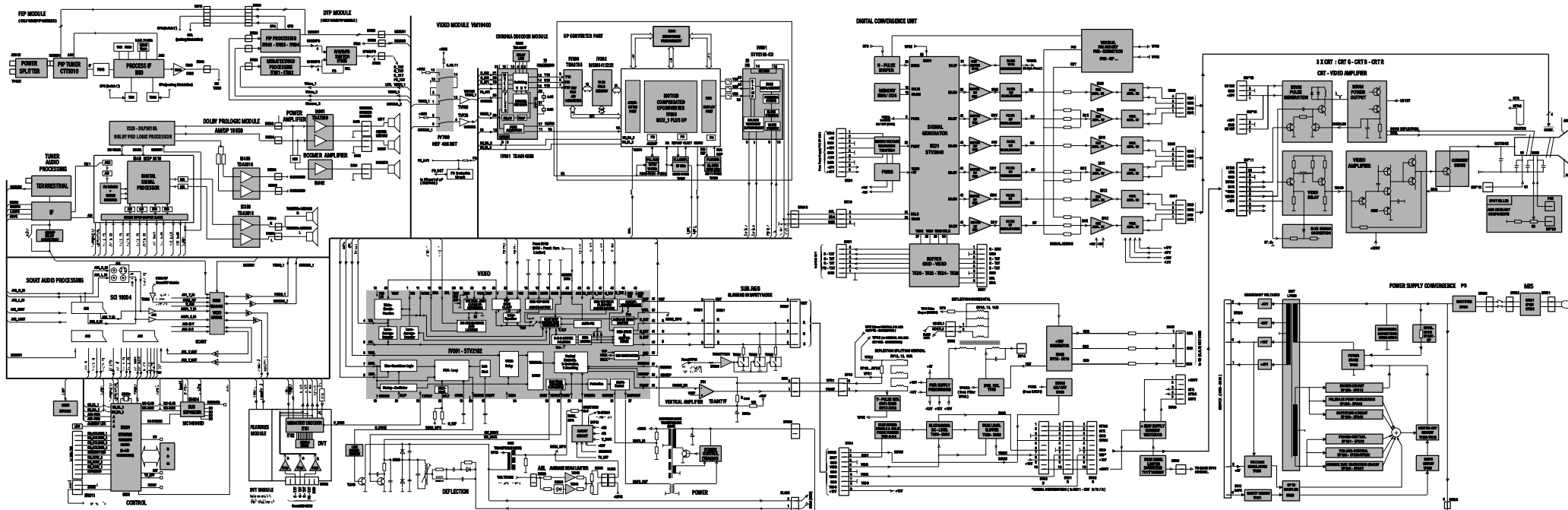


BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIID - SCHEMA A BLOCCHI - ESQUENA DE BLOQUES

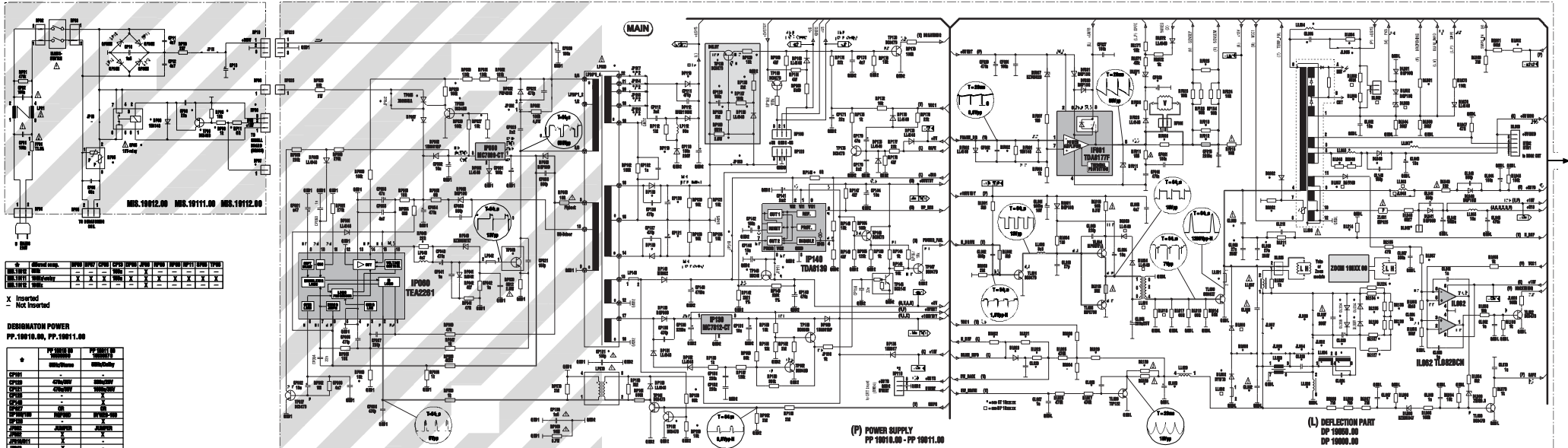


BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIID - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES
RP C19 - DOLBY PRO-LOGIC - PIP

IC10 - CH555 MAIN BOARD



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



CT	MSR.10012.00	MSR.10111.00	MSR.10112.00
CT101	X	X	X
CT102	X	X	X
CT103	X	X	X
CT104	X	X	X
CT105	X	X	X
CT106	X	X	X
CT107	X	X	X
CT108	X	X	X
CT109	X	X	X
CT110	X	X	X
CT111	X	X	X
CT112	X	X	X
CT113	X	X	X
CT114	X	X	X
CT115	X	X	X
CT116	X	X	X
CT117	X	X	X
CT118	X	X	X
CT119	X	X	X
CT120	X	X	X

X Inserted
Not Inserted

DESIGNATOR POWER
PP.10010.00, PP.10011.00

CT	PP.10010.00	PP.10011.00
CT101	X	X
CT102	X	X
CT103	X	X
CT104	X	X
CT105	X	X
CT106	X	X
CT107	X	X
CT108	X	X
CT109	X	X
CT110	X	X
CT111	X	X
CT112	X	X
CT113	X	X
CT114	X	X
CT115	X	X
CT116	X	X
CT117	X	X
CT118	X	X
CT119	X	X
CT120	X	X

⚠ Safety Part
Washi repairing, use original part only
Pièces de sécurité
N'utiliser que les pièces d'origine
Sicherheitsbestand
Bei Ersatz nur Originalteil verwenden
Componenti di sicurezza
Per la riparazione utilizzare solo componenti originali
Piezas de seguridad
Utilice solo piezas originales

⚠ Note:
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attenzione :
- Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (GND1).
Aufmerksamkeit :
- Primärkreismessungen verwenden (GND1).
Attenzione :
- misure nell'alimentazione primario
- usare massa alimentazione primario (GND1).
Cuidado :
- Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

⚠ Use Isolating mains transformer
Utiliser un transformateur isolateur du secteur
Sicher Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarvi dalla rete

Deflection - Idrone Partibus	CT 10010.00	CT 10011.00	CT 10012.00
BL001	X	X	X
BL002	X	X	X
BL003	X	X	X
BL004	X	X	X
BL005	X	X	X
BL006	X	X	X
BL007	X	X	X
BL008	X	X	X
BL009	X	X	X
BL010	X	X	X
BL011	X	X	X
BL012	X	X	X
BL013	X	X	X
BL014	X	X	X
BL015	X	X	X
BL016	X	X	X
BL017	X	X	X
BL018	X	X	X
BL019	X	X	X
BL020	X	X	X

Deflection - Idrone Tube related Partibus	CT 10010.00	CT 10011.00	CT 10012.00
BL021	X	X	X
BL022	X	X	X
BL023	X	X	X
BL024	X	X	X
BL025	X	X	X
BL026	X	X	X
BL027	X	X	X
BL028	X	X	X
BL029	X	X	X
BL030	X	X	X
BL031	X	X	X
BL032	X	X	X
BL033	X	X	X
BL034	X	X	X
BL035	X	X	X
BL036	X	X	X
BL037	X	X	X
BL038	X	X	X
BL039	X	X	X
BL040	X	X	X
BL041	X	X	X
BL042	X	X	X
BL043	X	X	X
BL044	X	X	X
BL045	X	X	X
BL046	X	X	X
BL047	X	X	X
BL048	X	X	X
BL049	X	X	X
BL050	X	X	X

X Inserted
Not Inserted

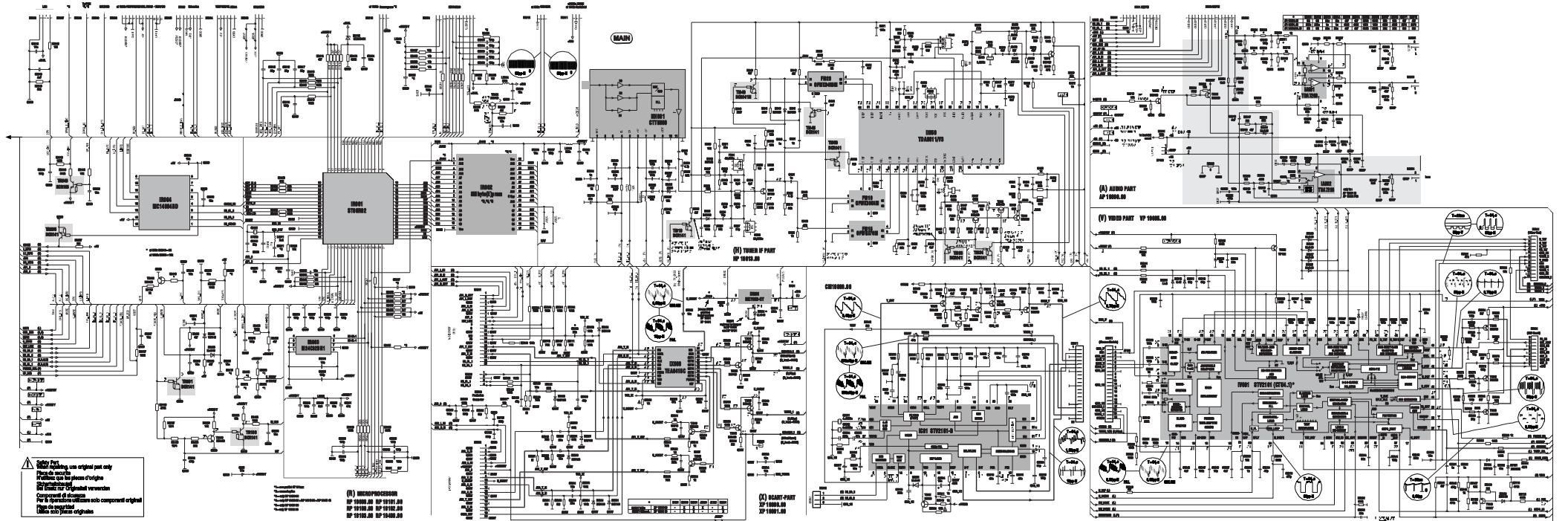
(P) POWER SUPPLY
PP.10010.00 - PP.10011.00

(L) DEFLECTION PART
DP.10000.00
DP.10000.00

Deflection - Idrone Tube related Partibus	CT 10010.00	CT 10011.00	CT 10012.00
LL001	X	X	X
LL002	X	X	X
LL003	X	X	X
LL004	X	X	X
LL005	X	X	X
LL006	X	X	X
LL007	X	X	X
LL008	X	X	X
LL009	X	X	X
LL010	X	X	X
LL011	X	X	X
LL012	X	X	X
LL013	X	X	X
LL014	X	X	X
LL015	X	X	X
LL016	X	X	X
LL017	X	X	X
LL018	X	X	X
LL019	X	X	X
LL020	X	X	X
LL021	X	X	X
LL022	X	X	X
LL023	X	X	X
LL024	X	X	X
LL025	X	X	X
LL026	X	X	X
LL027	X	X	X
LL028	X	X	X
LL029	X	X	X
LL030	X	X	X
LL031	X	X	X
LL032	X	X	X
LL033	X	X	X
LL034	X	X	X
LL035	X	X	X
LL036	X	X	X
LL037	X	X	X
LL038	X	X	X
LL039	X	X	X
LL040	X	X	X
LL041	X	X	X
LL042	X	X	X
LL043	X	X	X
LL044	X	X	X
LL045	X	X	X
LL046	X	X	X
LL047	X	X	X
LL048	X	X	X
LL049	X	X	X
LL050	X	X	X

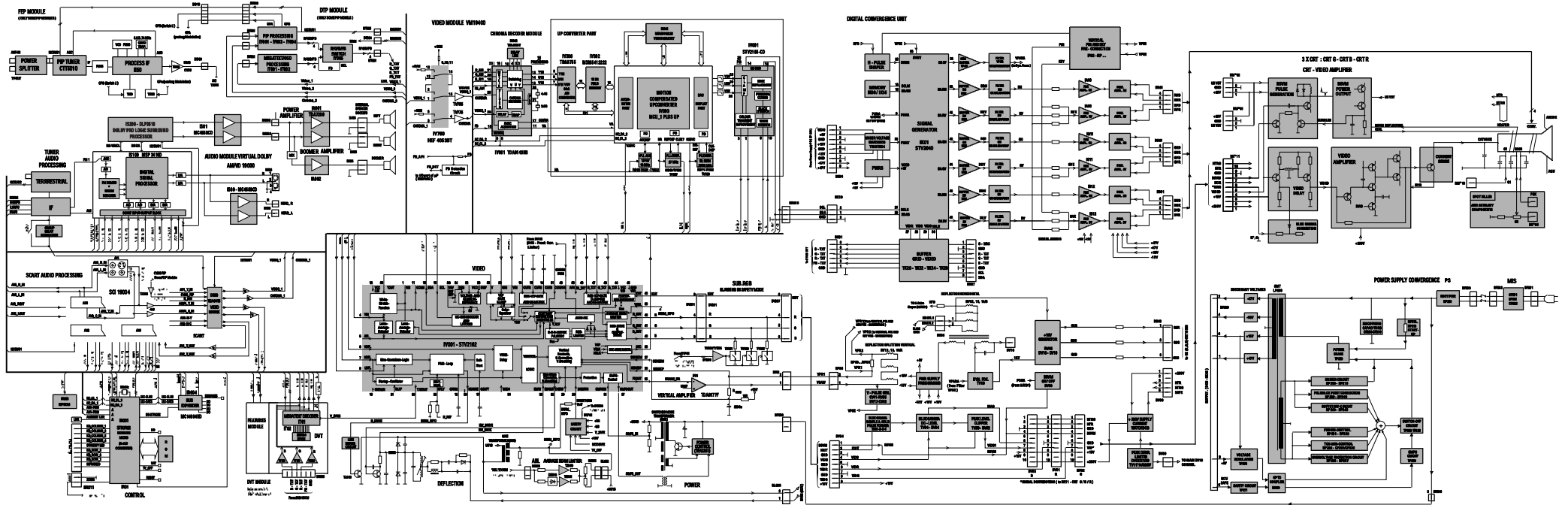
Note: the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 10010.31 Usa 131V →
Note: Los dos últimos números de la denominación CT xxxx, indica la tensión Usa
e.g. CT 10010.31 Usa 131V →

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



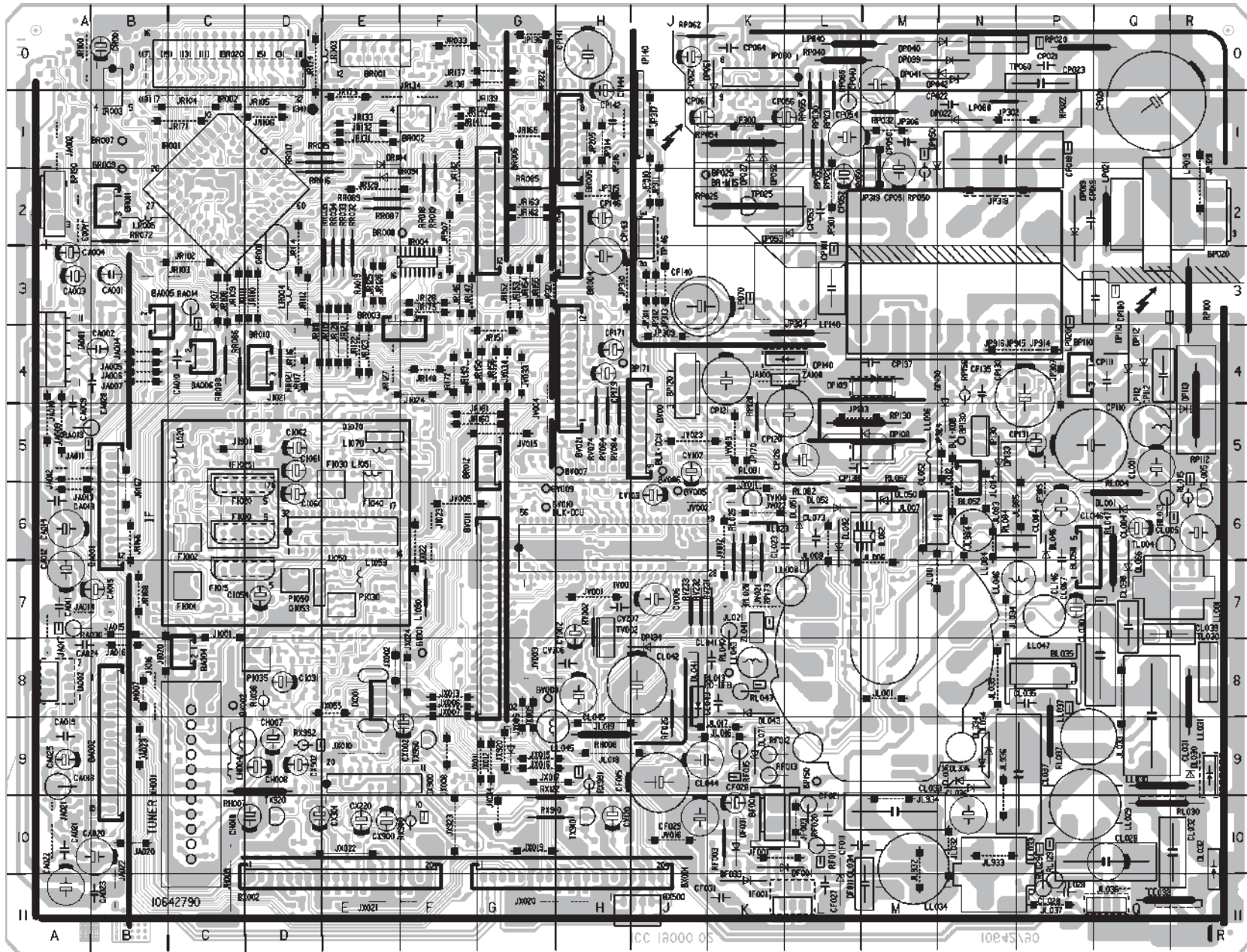
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBIID - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES
RP C19 - DOLBY PRO-LOGIC - PIP

IC19 - CHASSIS MAIN BOARD

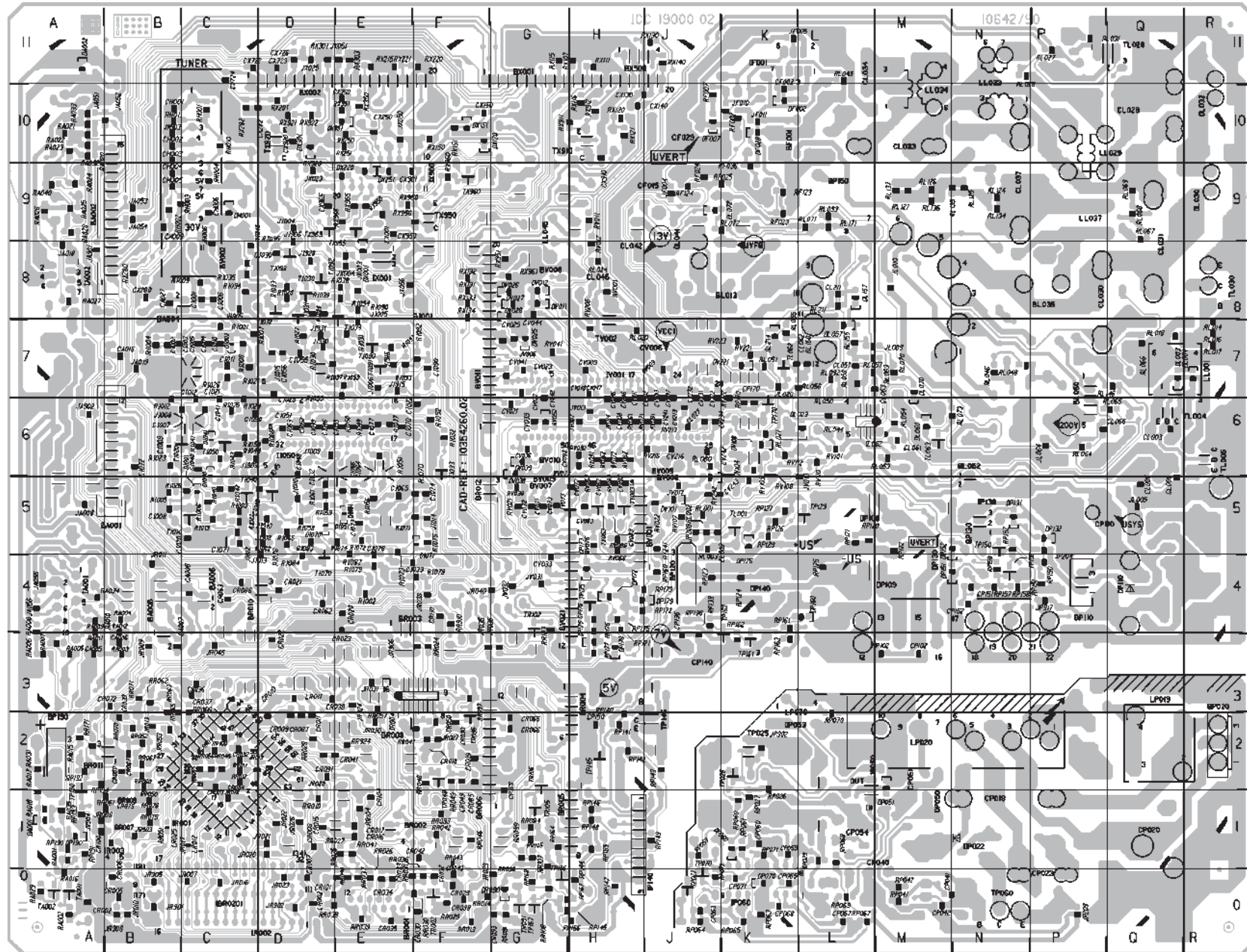


MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

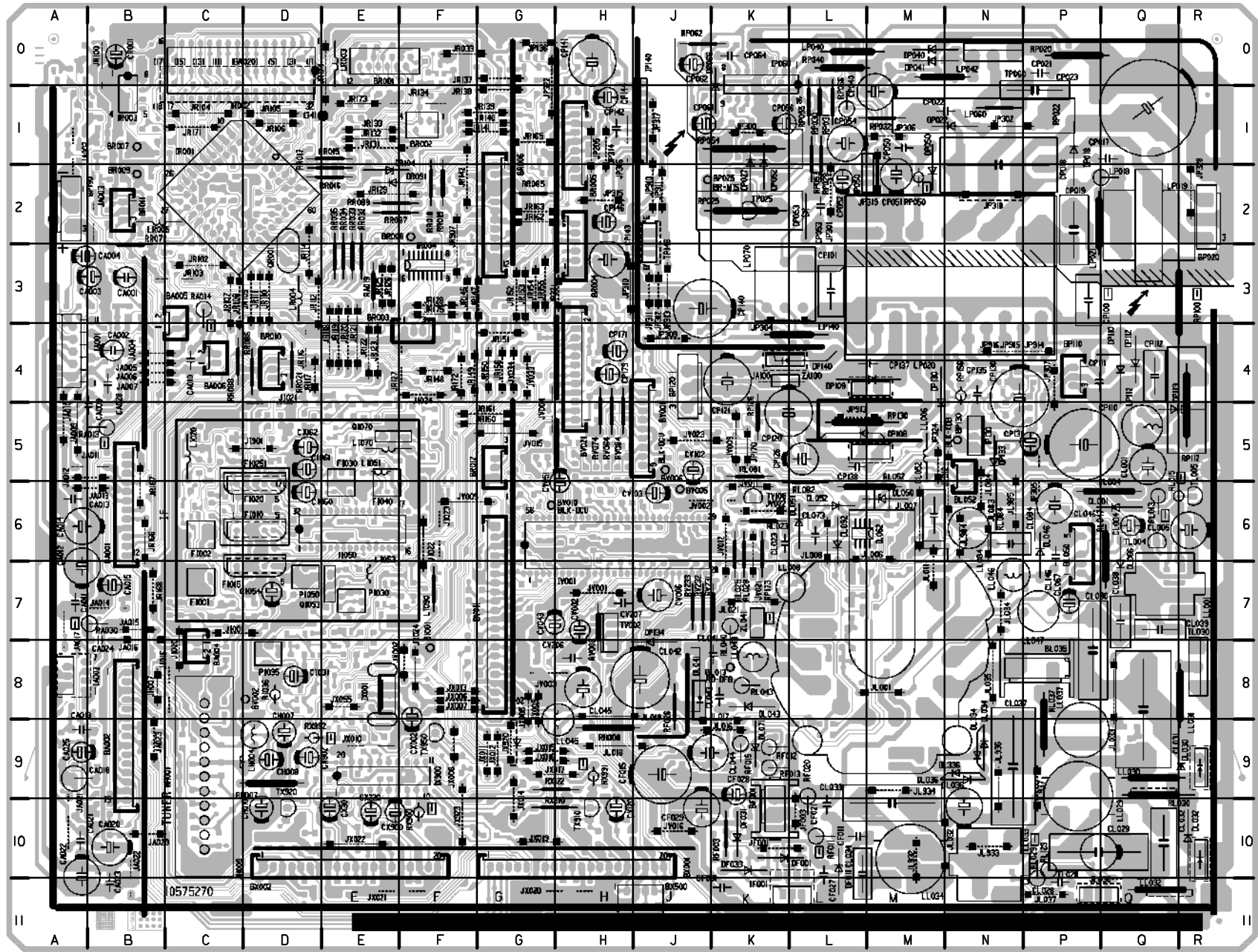
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



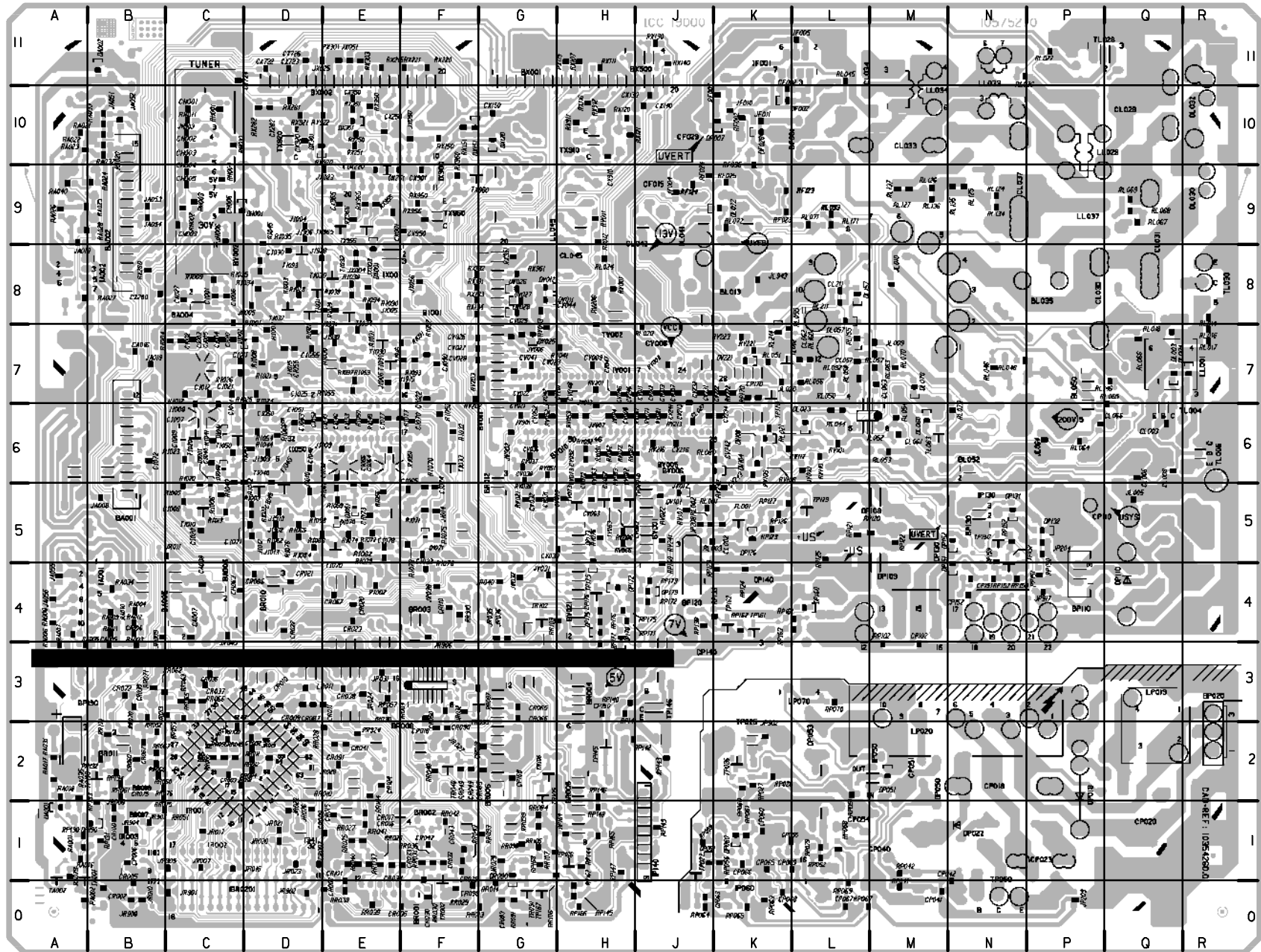
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



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

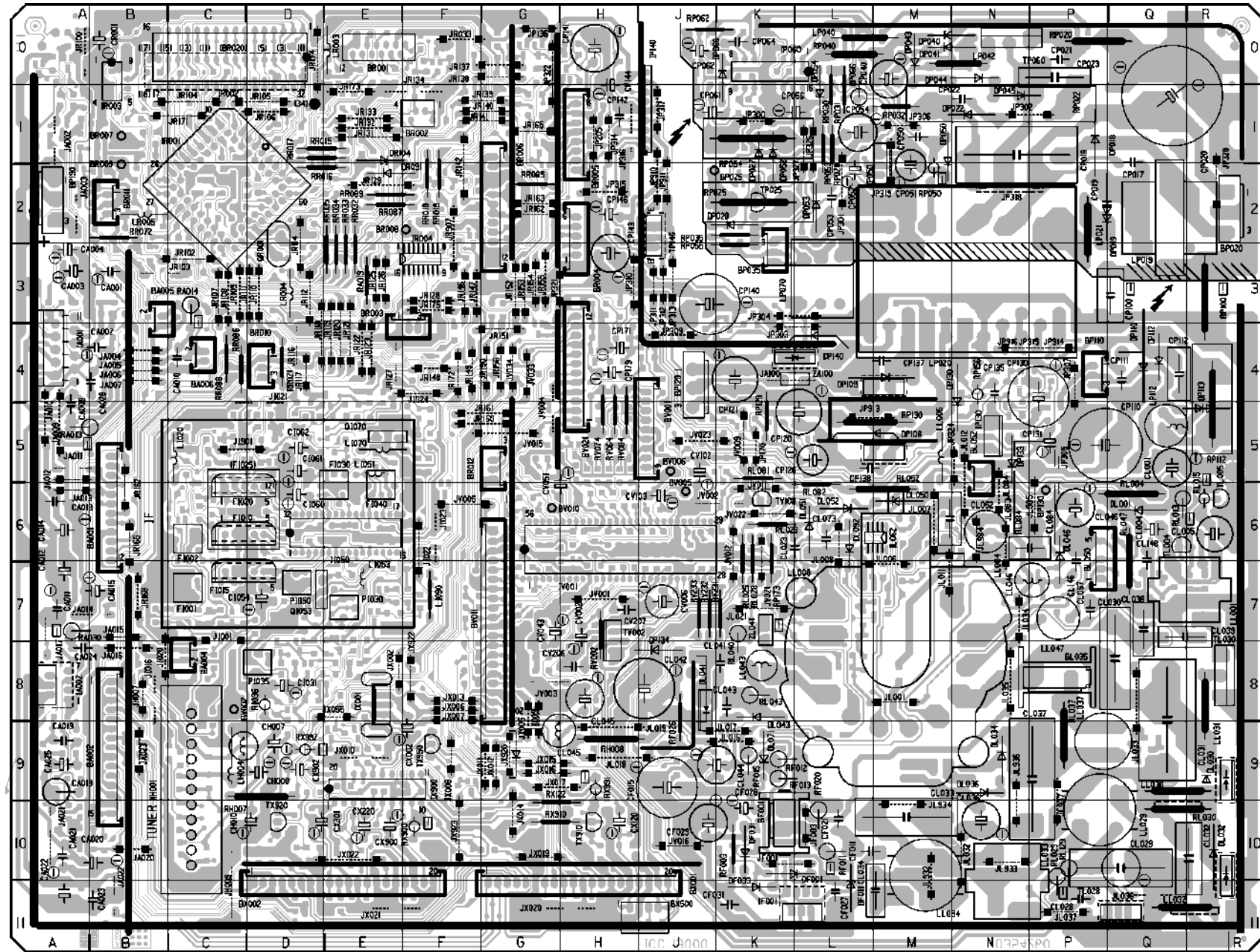


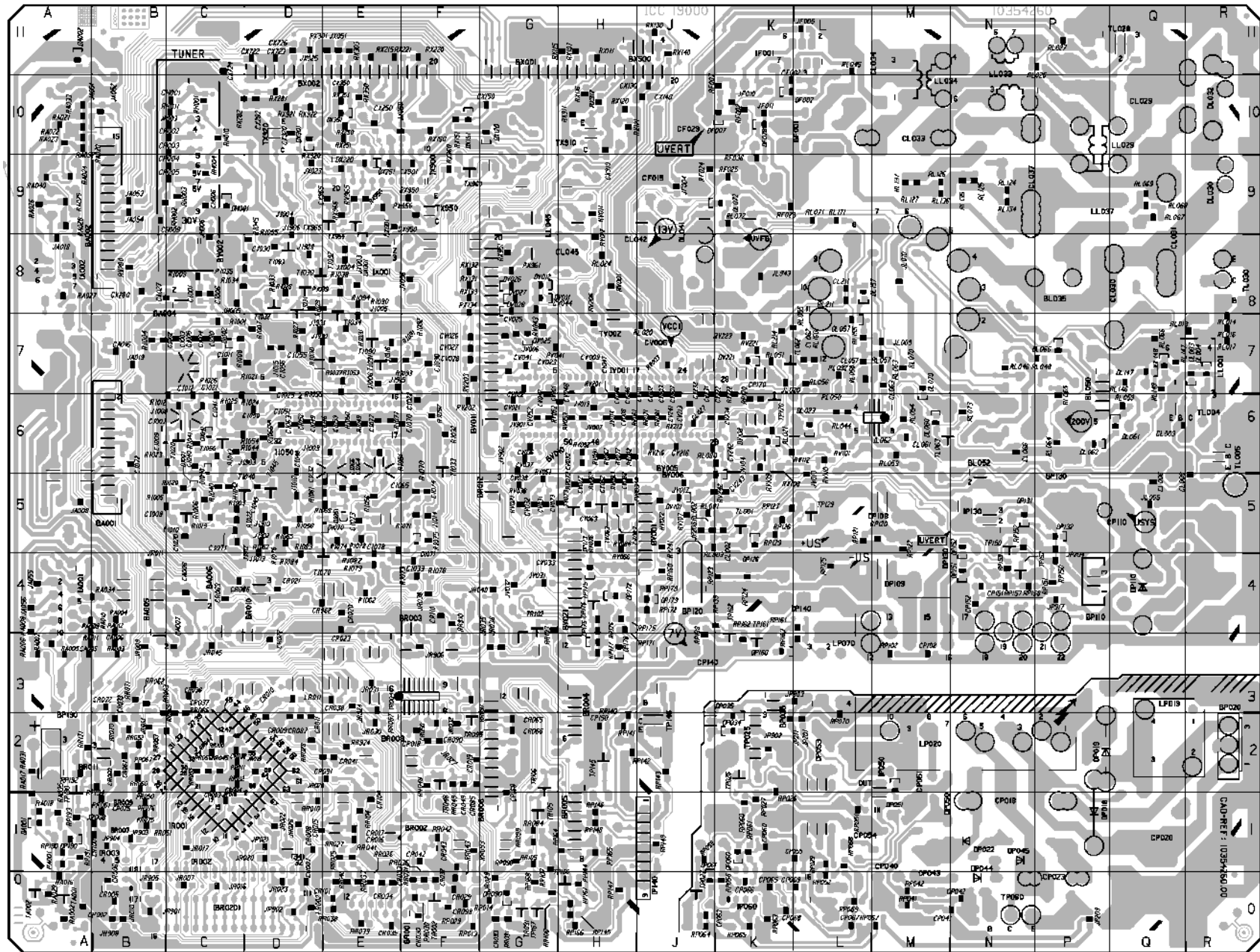
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



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

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

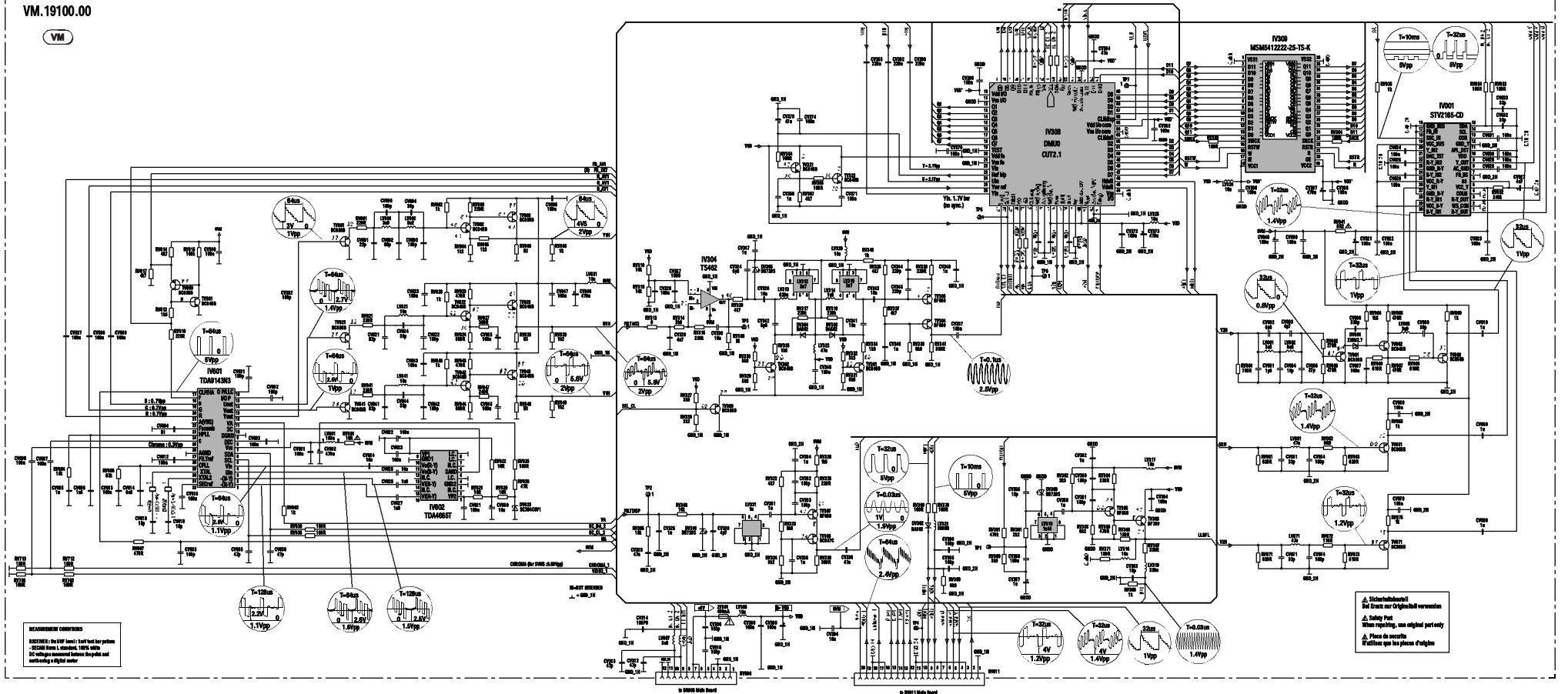




VIDEO MODULE - MODULE VIDEO - VIDEO BAUSTEIN - MODULO VIDEO - MÓDULO VIDEO
VM 19100

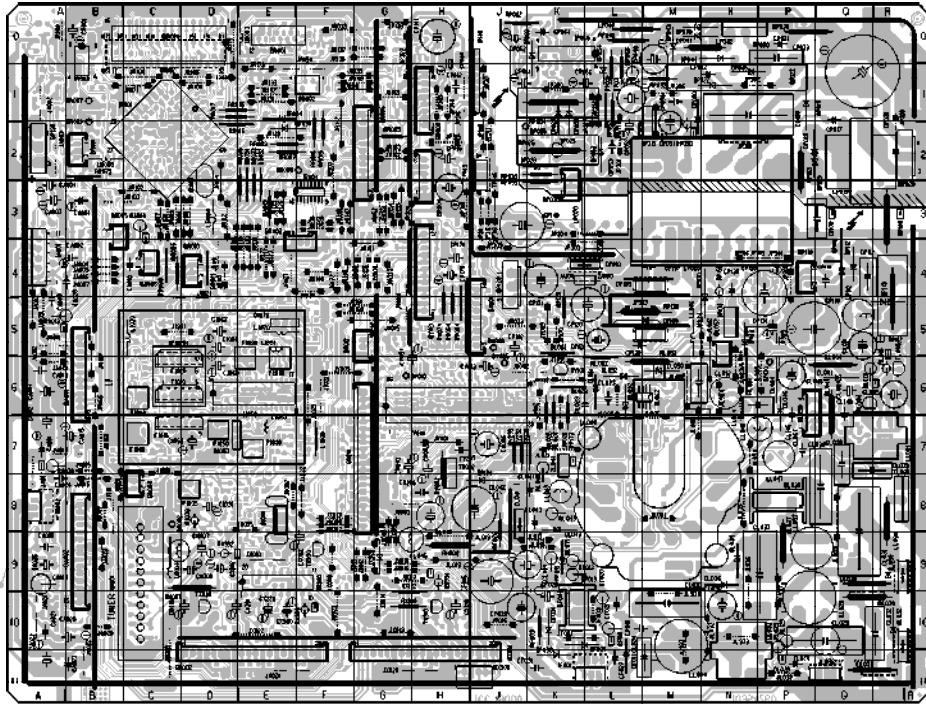
VM.19100.00

VM

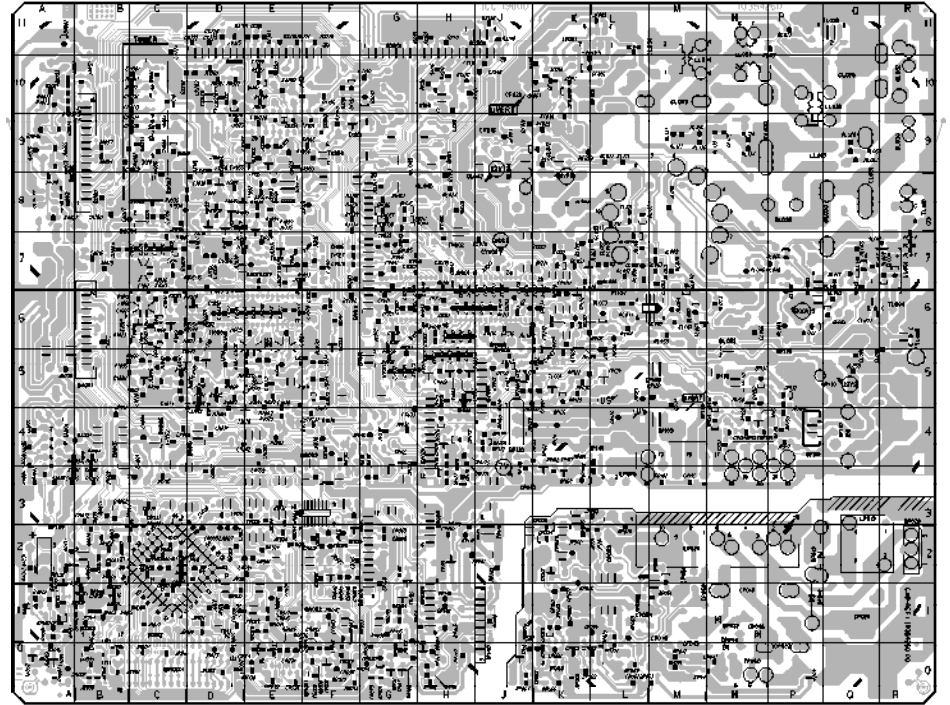


MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

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



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



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

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like BA001 B8, BA002 B9, BA003 B3, BA006 C4, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like CA001 B3, CA002 B4, CA003 A3, CA004 A3, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like CI031 D8, CI032 E5, CI033 E4, CI040 C8, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like CP121 K4, CP128 L5, CP130 P4, CP131 P6, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like CV062 G6, CV063 H6, CV072 H5, CV073 H5, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like DP043 M0, DP044 M0, DP045 N1, DP050 M1, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like JA010 A5, JA011 A5, JA012 A5, JA013 A.6, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like JP307 J4, JP308 J4, JP309 J4, JP310 J4, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like JR168 B7, JR171 C1, JR172 F4, JR173 E1, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like PI030 E7, PI035 D6, PI050 D7, QI053 D7, QI070 E5, QR001 D3.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like R1042 C5, R1043 C6, R1044 C6, R1045 D6, etc.

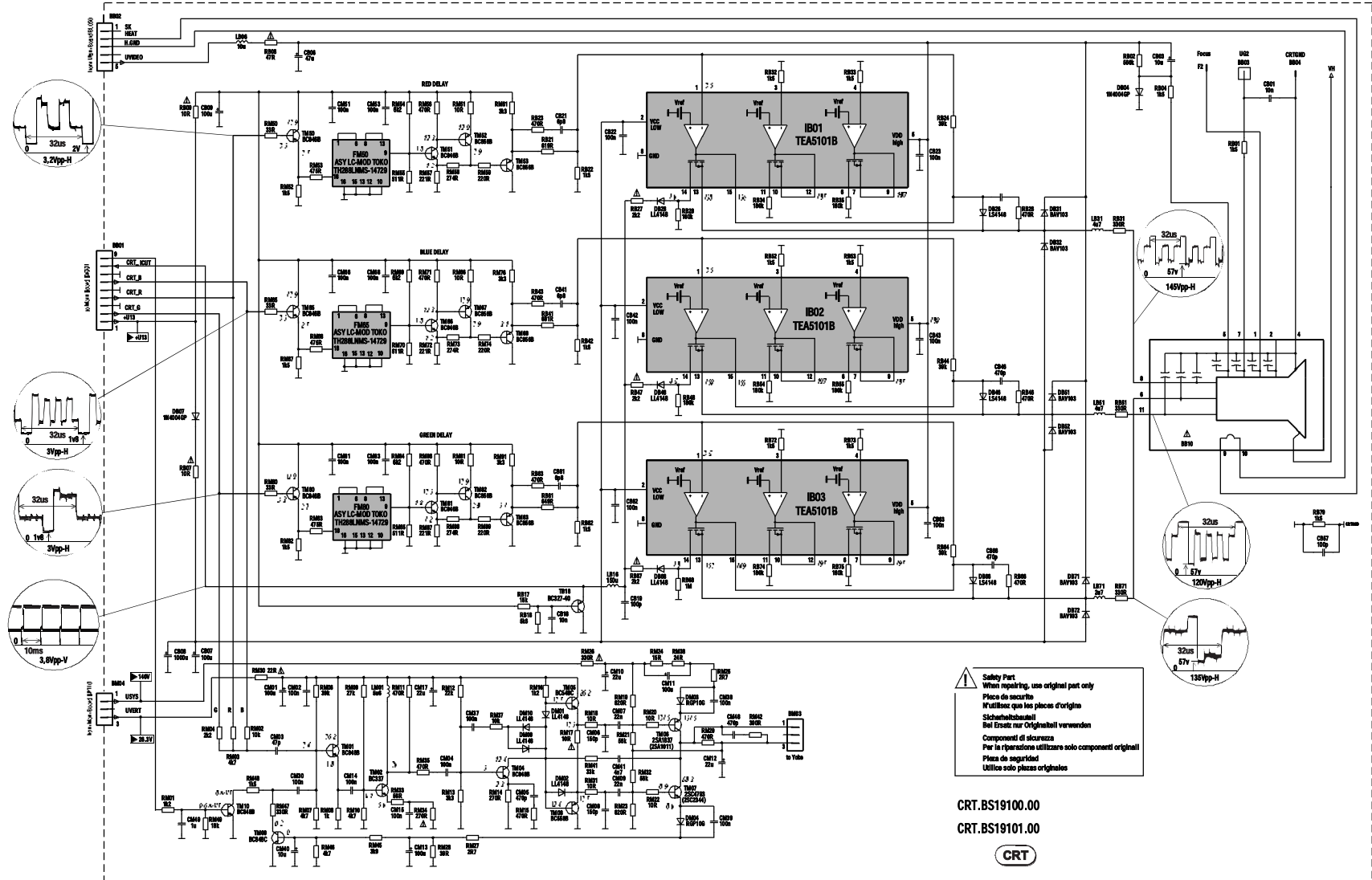
Table with 3 columns: Component ID, Component Name, Component Name. Includes items like RL165 L7, RL166 L7, RL167 D4, RL171 L8, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like RR019 F2, RR021 D4, RR022 E0, RR026 E0, etc.

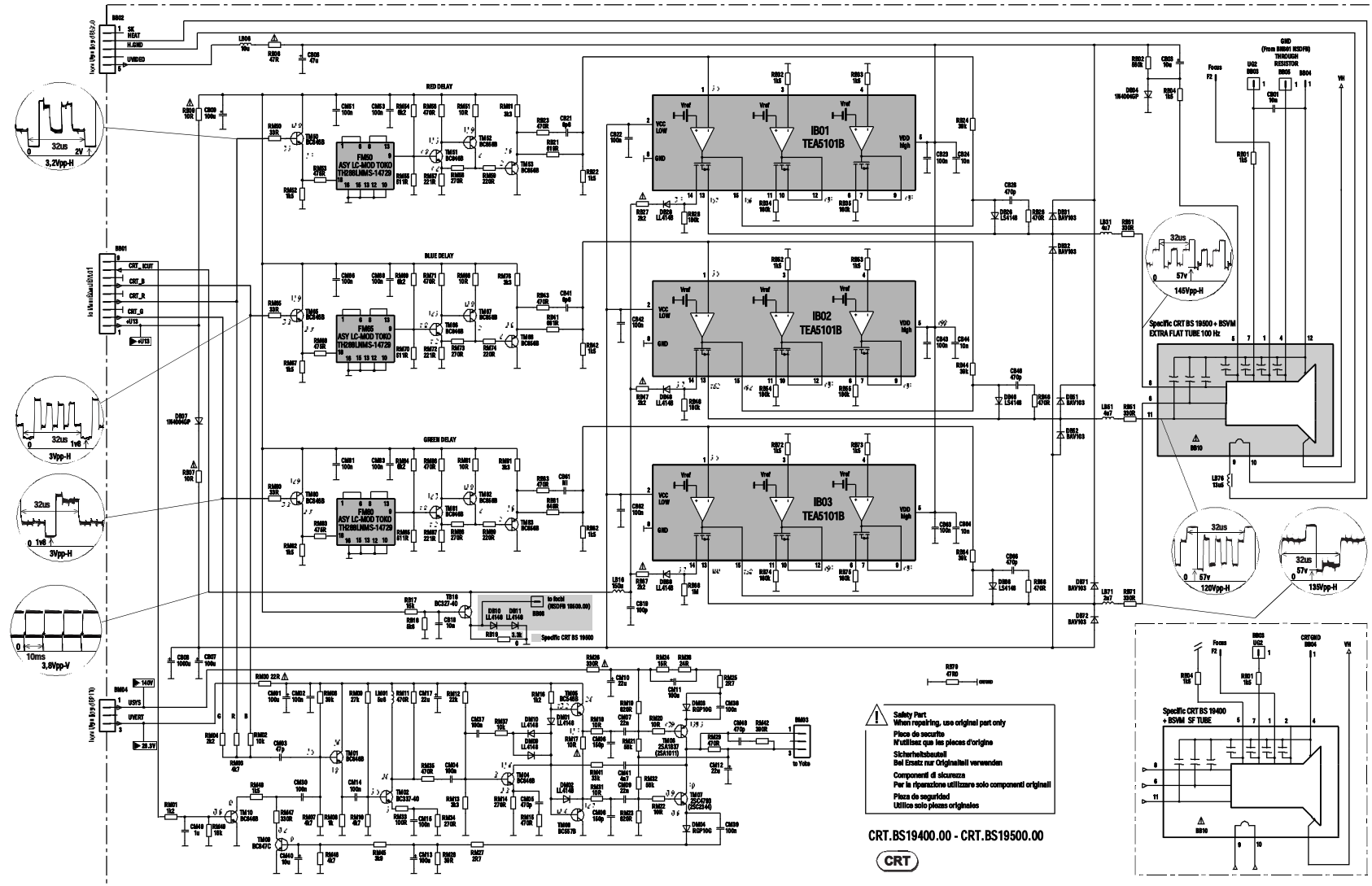
Table with 3 columns: Component ID, Component Name, Component Name. Includes items like RV216 J8, RV221 K7, RV222 K6, RV223 K7, etc.

Table with 3 columns: Component ID, Component Name, Component Name. Includes items like TV063 H6, TV073 H5, TV083 H6, TV108 H6, etc.

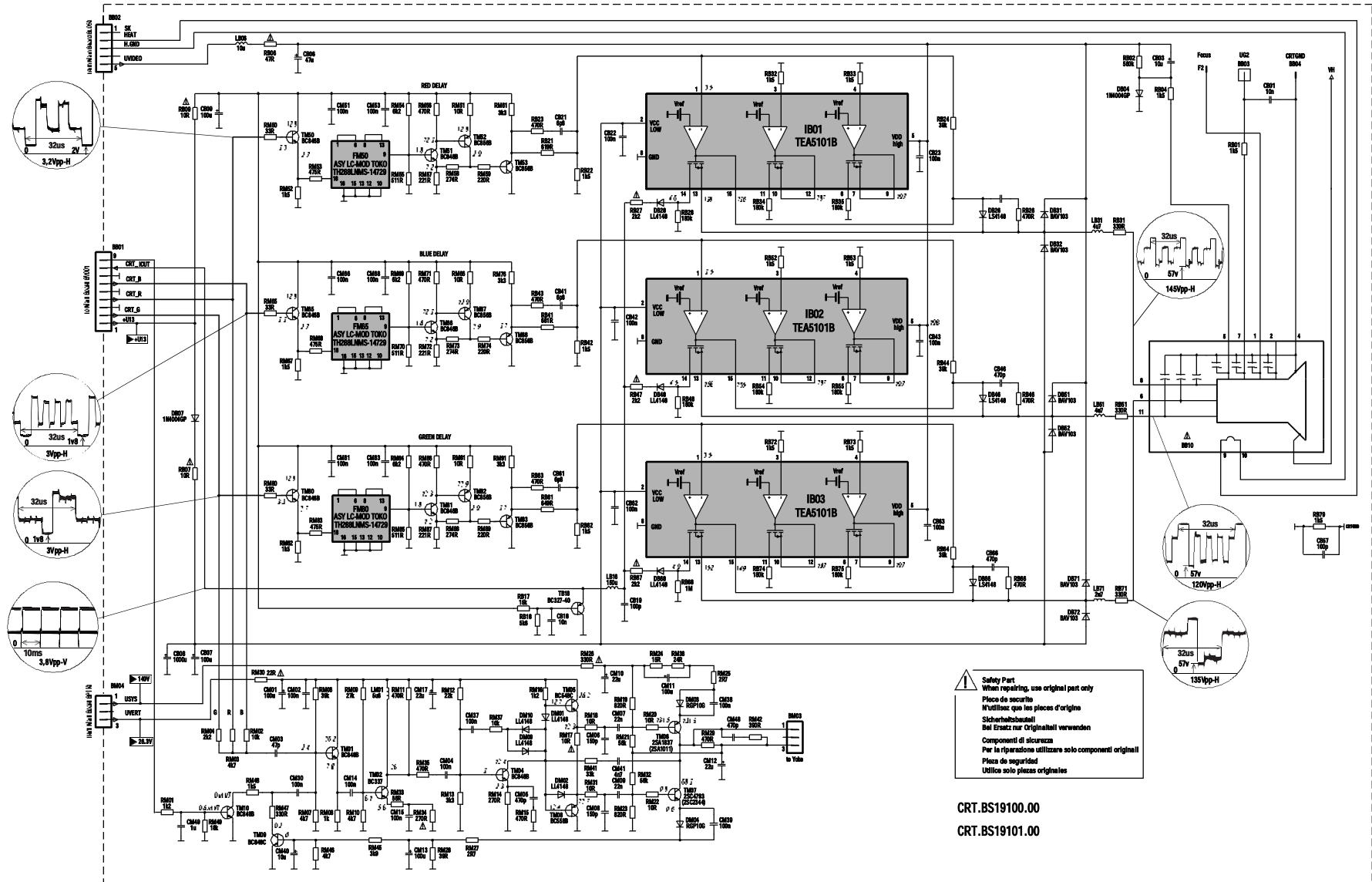
**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
CRTBS19100 - CRTBS19101**



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
 CRTBS19400 - CRTBS19500

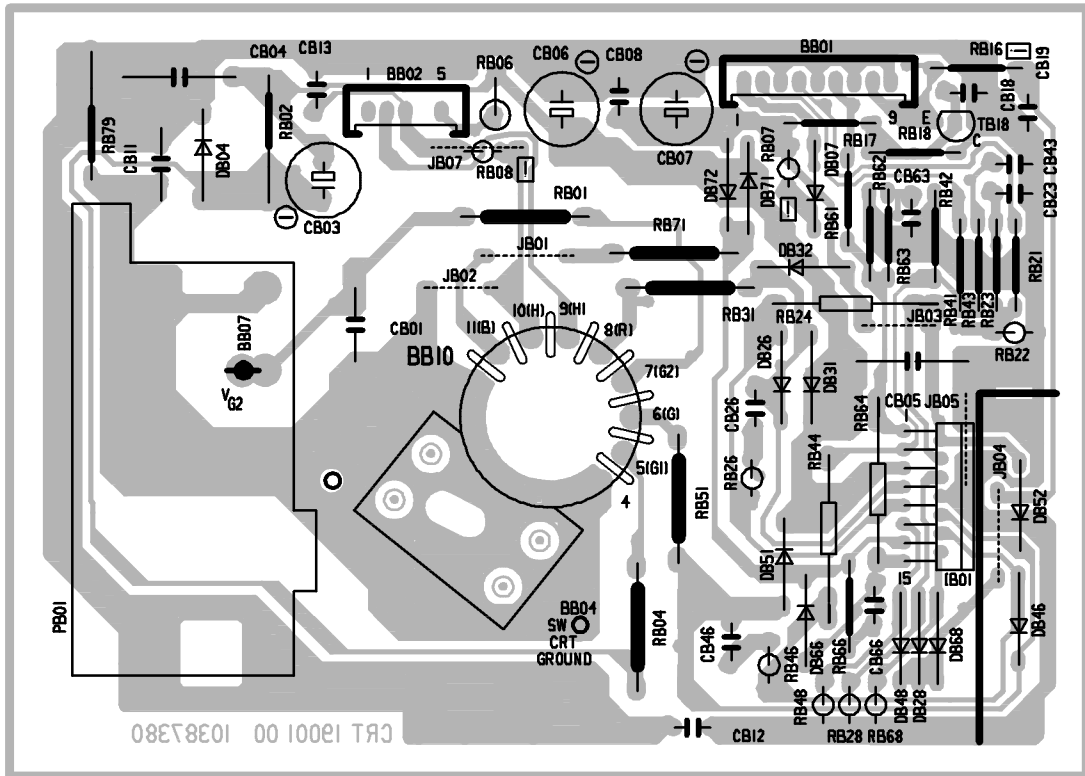


**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
CRTBS19100 - CRTBS19101**

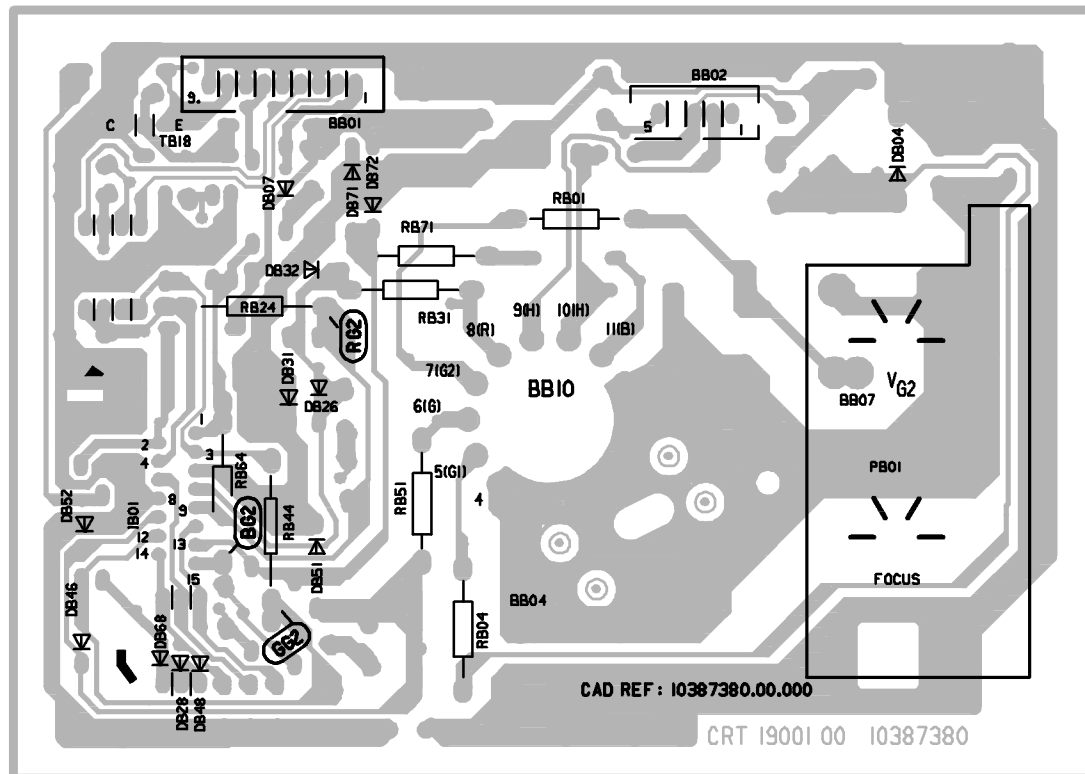


CRT 19001 - CRT 19004

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

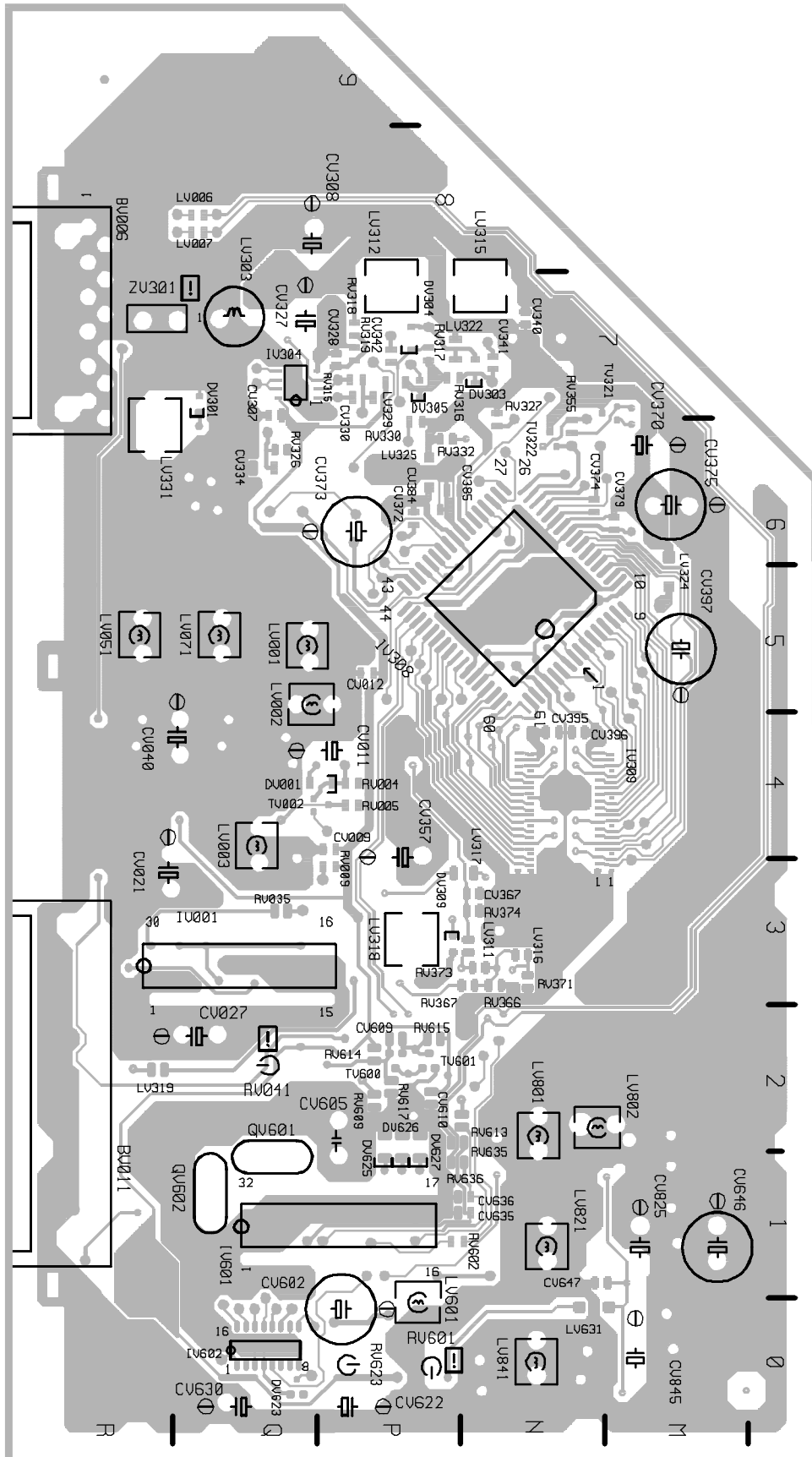


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



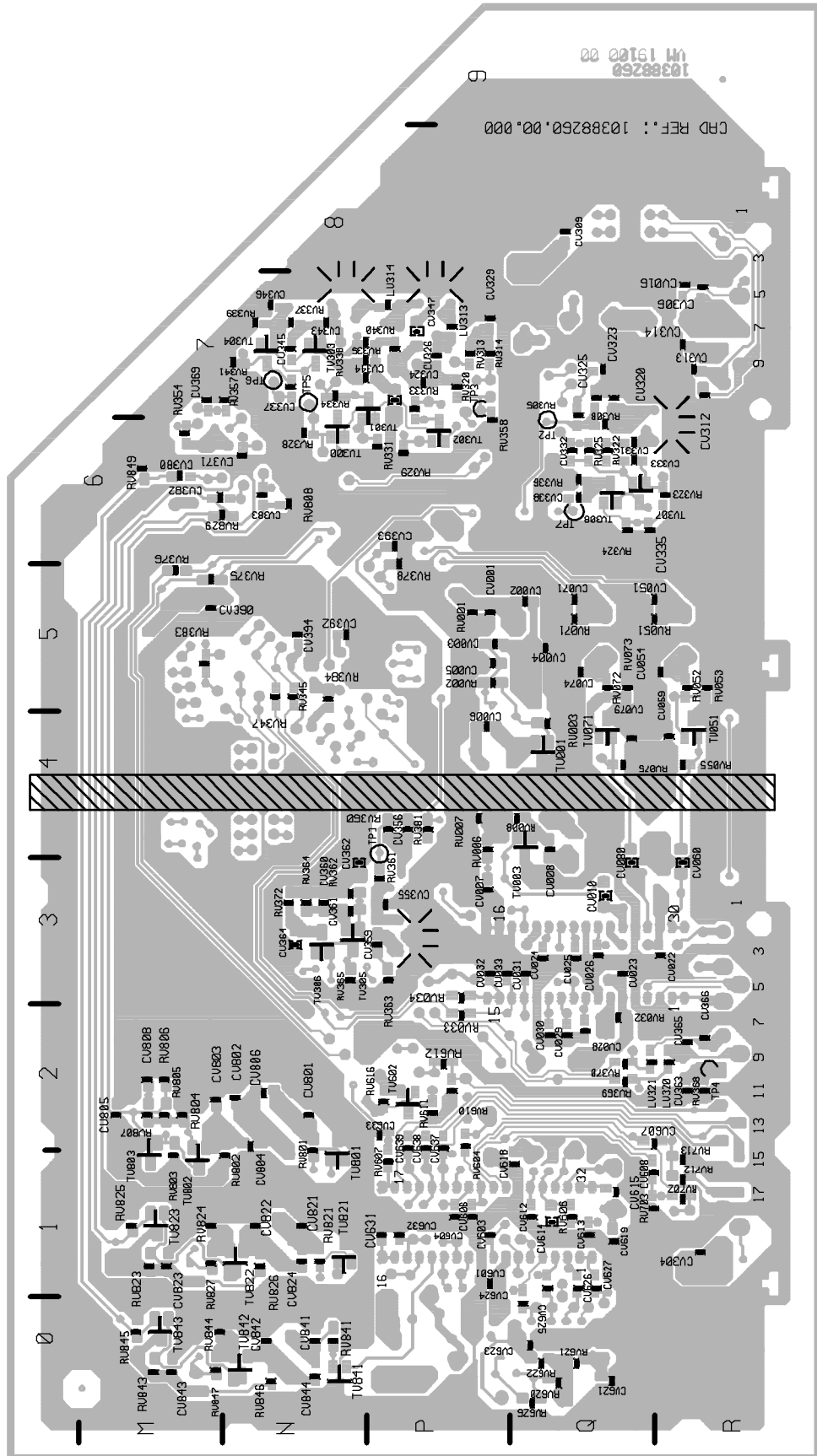
VM19100

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

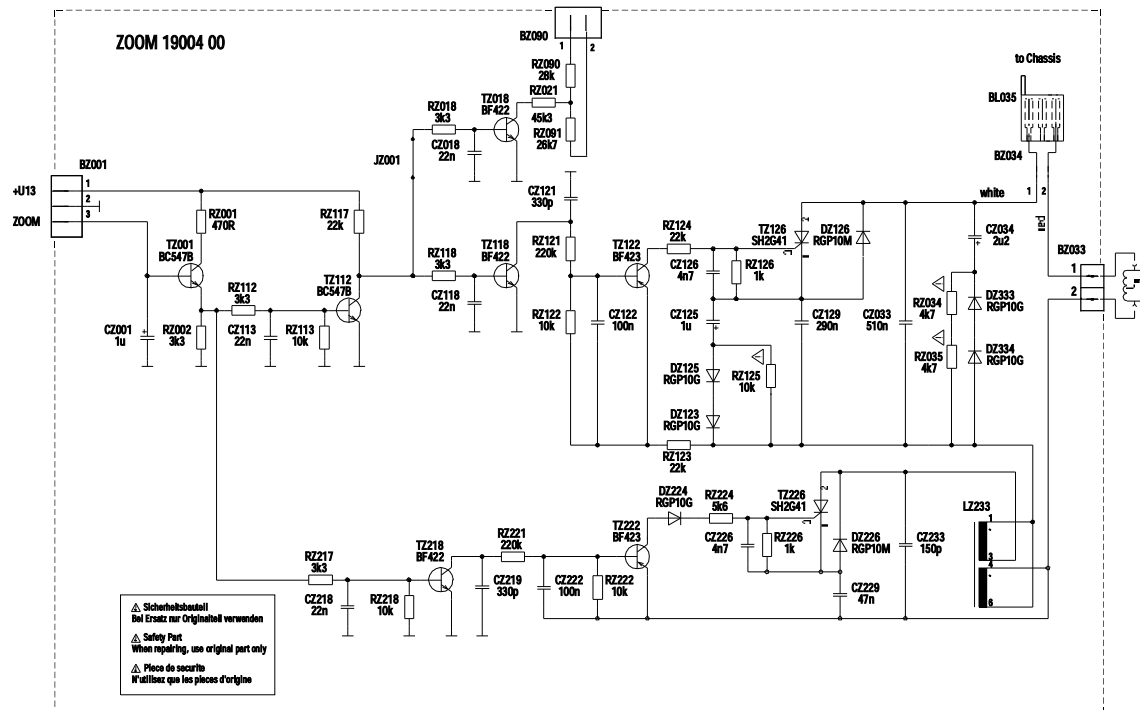


VM19100

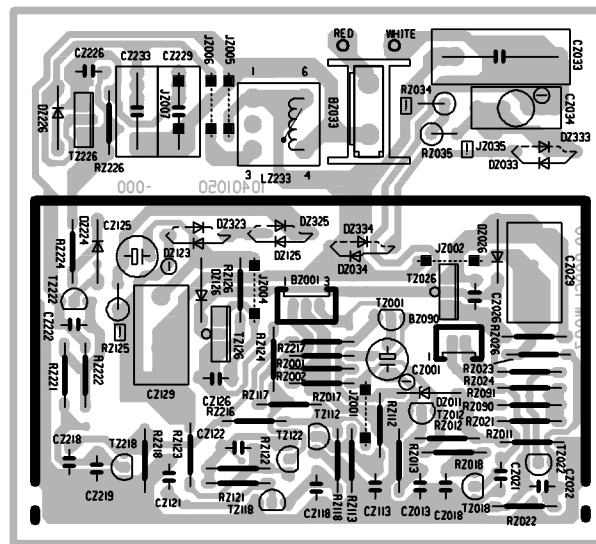
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



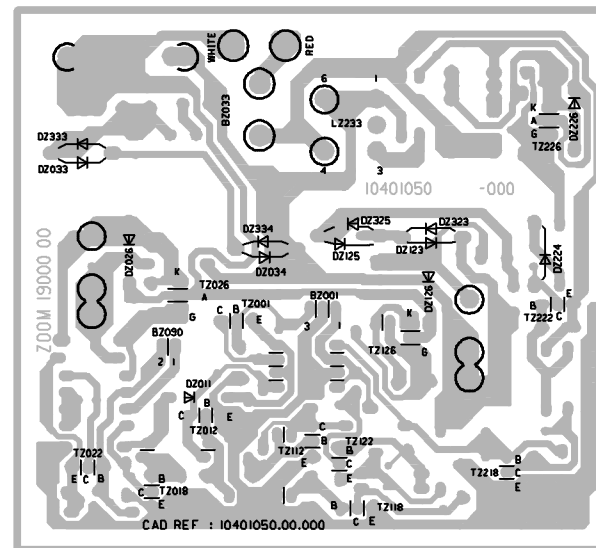
ZOOM 19004 00



**COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSEITE
LATO COMPONENTI - LADO COMPONENTES**

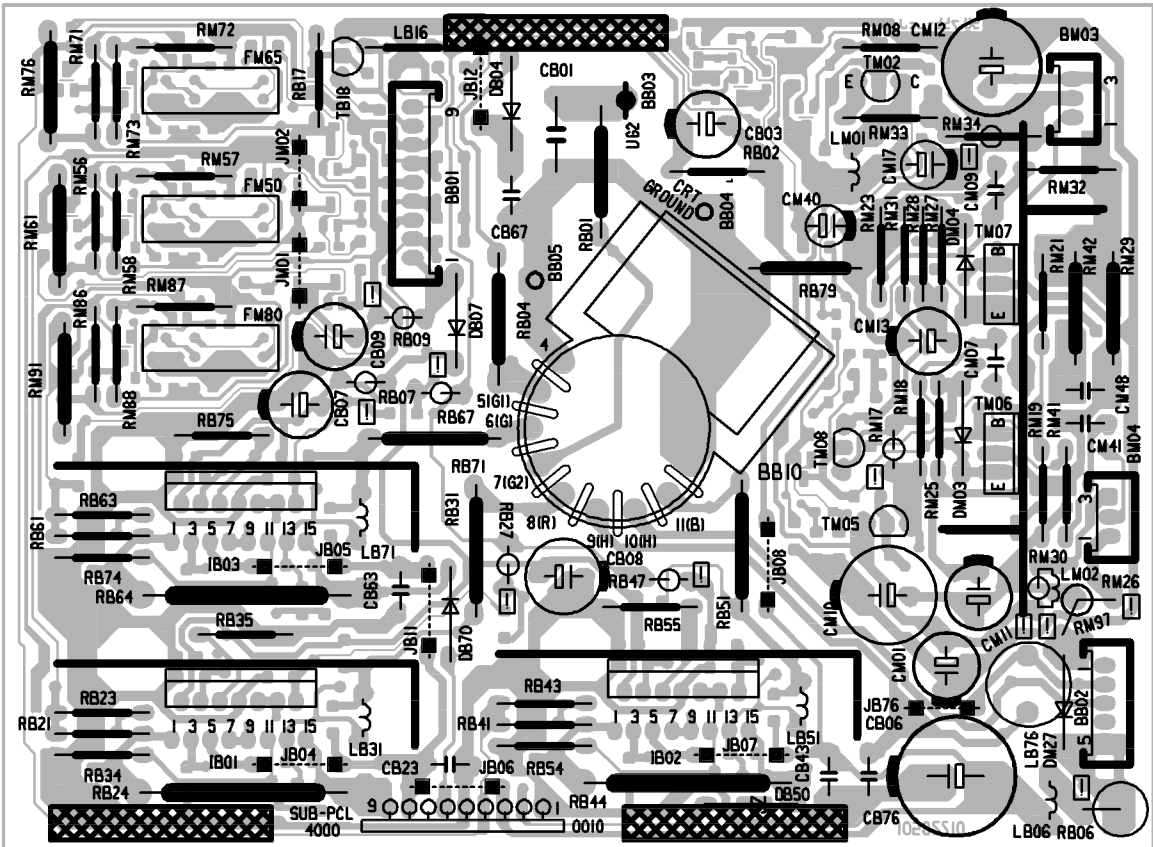


**SOLDER SIDE - CÔTE SOUDURES - LÔTSEITE - LATO SALDATURE -
LADO SOLDADURAS**

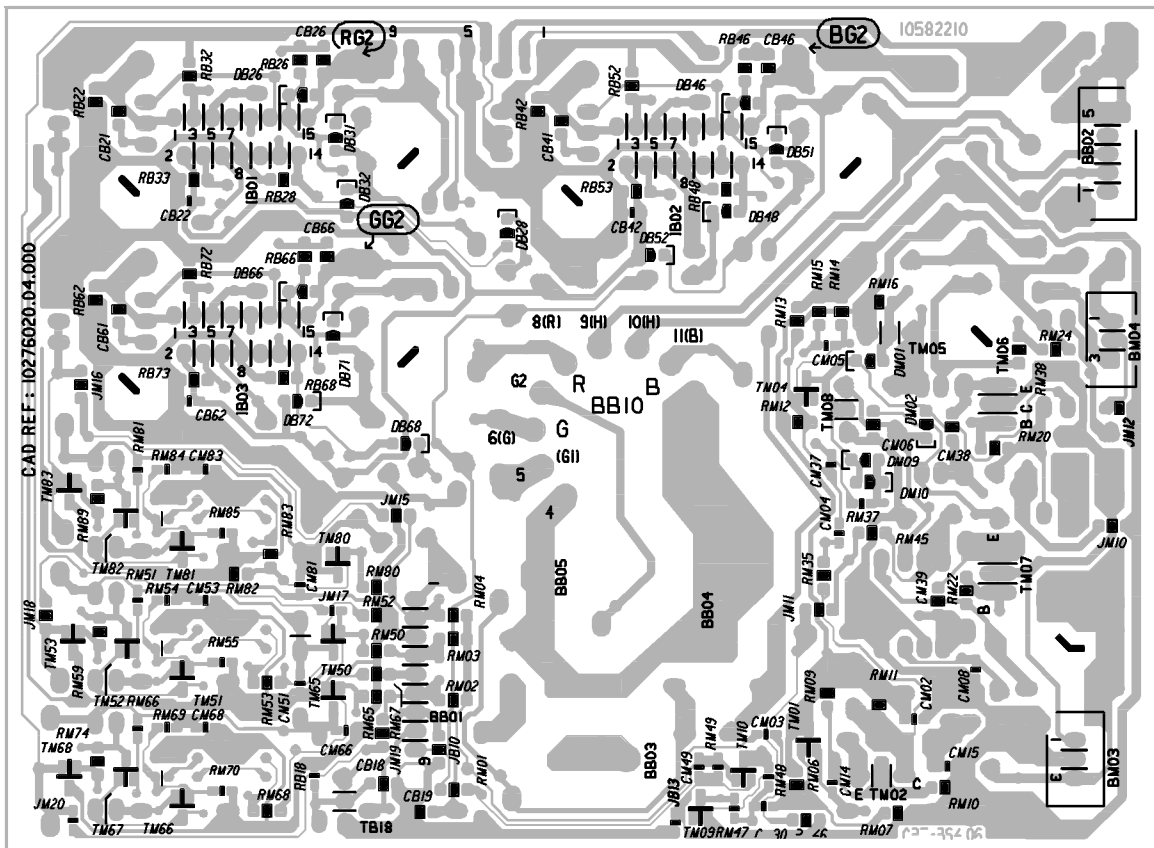


CRT BS 19100 - CRT BS 19400

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

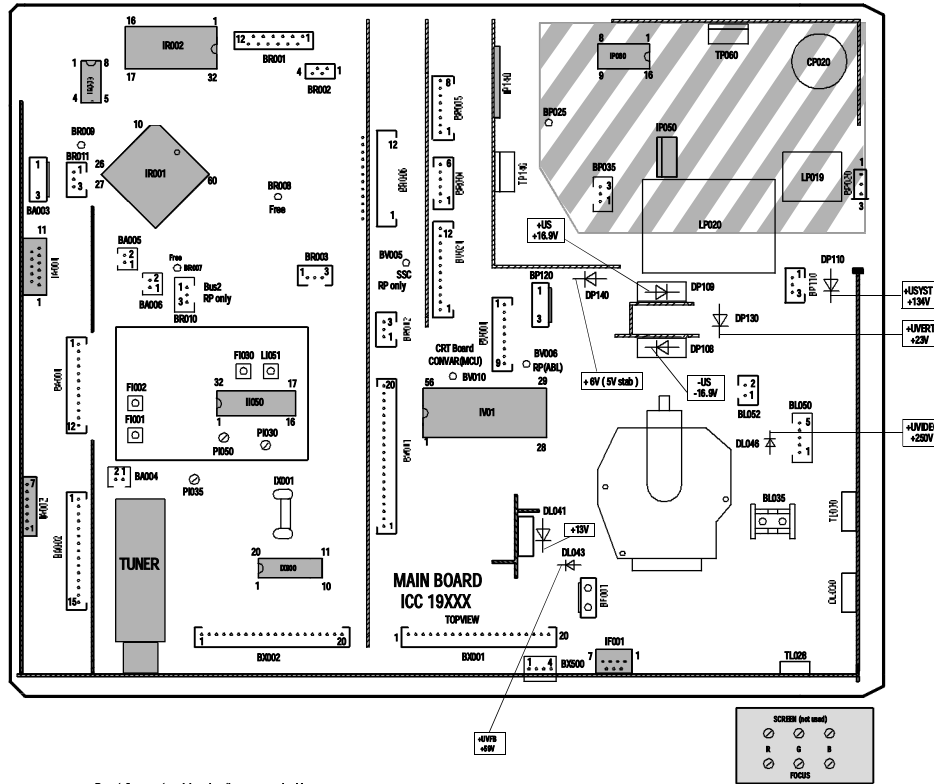


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

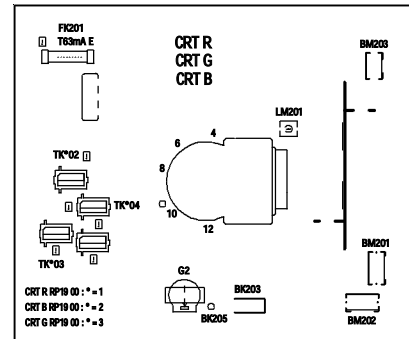


LOCATION OF CONTROLS - EMLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES

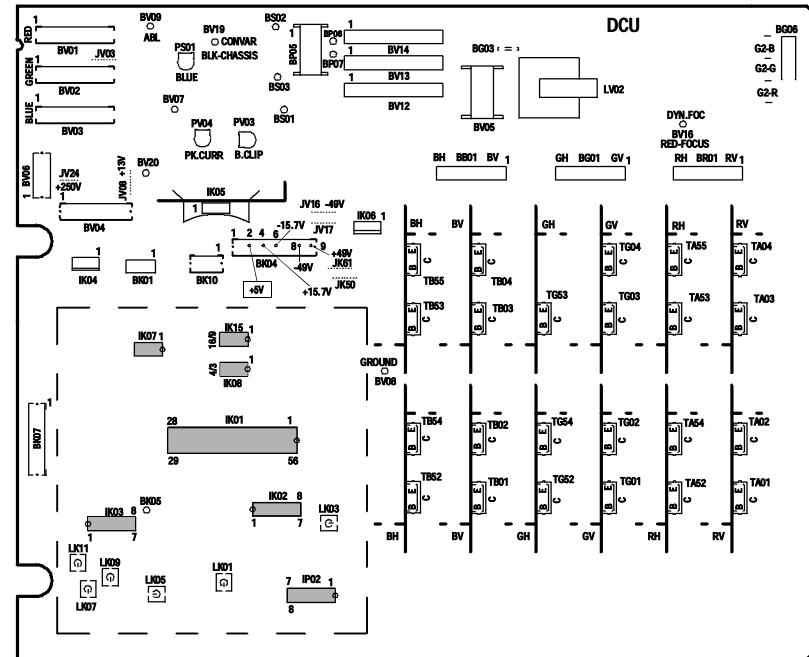
MAIN BOARD - PLATINE PRINCIPALE - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



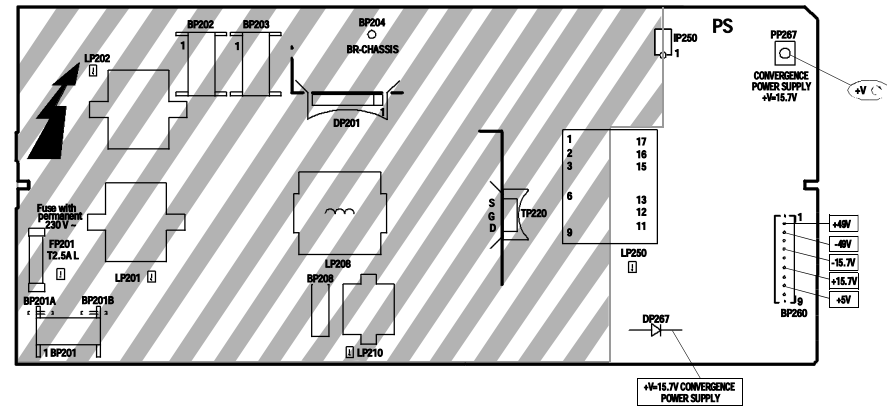
- Do not disconnect modules when they are energized!
Répètez les travaux de maintenance sur la partie reliée au secteur (Switch mode) qu'au travers d'un transformateur d'isolement.
- Ne pas retirer les modules lorsqu'ils sont sous tension.
N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch mode) qu'au travers d'un transformateur d'isolement.
- Module nicht bei eingeschalteten Gerät entfernen!
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltransformators durchführen.
- Non collegare i moduli quando sono alimentati!
Effettuare i lavori sulla sezione alimentatore solo con trasformatore isolante.
- No desconectar los módulos cuando están activados!
Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.



DIGITAL CONVERGENCE UNIT - PLATINE DE CONVERGENCE NUMERIQUE - DIGITALE KONVERGENZEINHEIT - UNITÀ DI CONVERGENZA DIGITALE - UNIDAD DE CONVERGENCIA DIGITAL



DIGITAL CONVERGENCE UNIT POWER SUPPLY - ALIMENTATION PLATINE DE CONVERGENCE NUMERIQUE - NETZTEIL KONVERGENZEINHEIT - ALIMENTAZIONE UNITÀ DI CONVERGENZA DIGITALE - ALIMENTACIÓN UNIDAD DE CONVERGENCIA DIGITAL



ADJUSTMENTS - REGOLAZIONE - AJUSTES

U-Set	SERVICE MODE Standard TV - Settings: ① + ② + ③ = 005 TV-MAIN - Standard pattern		U-SET ① = 00 ② = 00 ③ = 00 ④ = 00 ⑤ = 00 ⑥ = 00 ⑦ = 00 ⑧ = 00 ⑨ = 00 ⑩ = 00
FFW	Standard TV - Settings: ① + ② + ③ = 005 TV-MAIN - Standard pattern		Adjust FFW to 1V4-1.5V
V VO	Standard TV - Settings: ① + ② + ③ = 005 TV-MAIN - Standard pattern		Adjust FFD (FWD) for 2.80V ± 0.1V
VELOCITY	Standard TV - Settings: ① + ② + ③ = 005 TV-MAIN - Standard pattern		Adjust PWD to 1.0V ± 0.1V (Standard level)
H-VO	Standard TV - Settings: ① + ② + ③ = 005 TV-MAIN - Standard pattern		Adjust PWD to 1.0V ± 0.1V (Standard level)
Verified Power	SERVICE MODE V-PORTRON		DC Voltage - V to address. (+0.7 possible)

U-SET - REFLECTION/VOSE POSITION - CORREGGIO MANOMETRI

U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen. The U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen. The U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen.



U-SET - REFLECTION/VOSE POSITION - CORREGGIO MANOMETRI

U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen. The U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen.

1 - SERVICE MODE (SECURITY) H-ARM

U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen. The U-Set adjustment is used to correct the picture geometry. It is used to adjust the picture to the screen.

FOCUS

Focus adjustment is used to correct the picture focus. It is used to adjust the picture to the screen. The Focus adjustment is used to correct the picture focus. It is used to adjust the picture to the screen.

1 - FOCUS

Focus adjustment is used to correct the picture focus. It is used to adjust the picture to the screen. The Focus adjustment is used to correct the picture focus. It is used to adjust the picture to the screen.

DC CONVERSION

DC conversion adjustment is used to correct the picture color. It is used to adjust the picture to the screen. The DC conversion adjustment is used to correct the picture color. It is used to adjust the picture to the screen.

1 - DC CONVERSION

DC conversion adjustment is used to correct the picture color. It is used to adjust the picture to the screen. The DC conversion adjustment is used to correct the picture color. It is used to adjust the picture to the screen.

SERVICE MODE **GB**

1- ENTER/EXIT SERVICE MODE - ENTREBORTE/TE DU MODE SERVICE - EIN/UND AUSSTIEG SERVICE MODE - ACCESSO/USCITA ALLA/DALLA FUNZIONE - ENTRADA/SALIDA MODO SERVICIO

1 ACCESSING THE SERVICE MODE

TV Control Panel Access

- Switch "Off" the main supply to the TV.
- Wait for about 30 seconds.
- While holding down the **PIR** and **VOL-** on the projector keypad, switch "On" the main supply to the TV.
- Once finished, the Main Service Menu will appear on the screen of the TV.

Note:

- The main menu function is not available.
- The lock function (PIN Number) is optional.
- WIFI/WLAN and other functions are disabled.
- SCART Function and its switching voltage is optional.
- AVC Link WSS selector, EPSS and T-Function functions are disabled.
- Automatic standby mode switching functions (no conditional use allowed).
- Brightness, Colour and Contrast are set to factory settings.
- Contrast expansion is set to low.
- Automatic input mode is selected.
- Normal and Zoom are reset to factory default.

MODE SERVICE **F**

2 TEMPORARY EDIT FROM SERVICE MODE

Press the "Edit" button on the RCU.

Pressing the "Menu" button on the RCU will activate the consumer menu.

The Service Menu can be re-enabled by pressing the "Menu" button on the RCU.

SERVICE - MODE **D**

3 EXITING FROM SERVICE MODE

Remote Control

- Press **ESC** or **EXIT** button.

TV Control Panel

- Press **AVCL** button.

SERVICE - MODE **I**

3 EXITING FROM SERVICE MODE

Remote Control

- Press **ESC** or **EXIT** button.

TV Control Panel

- Press **AVCL** button.

MODO SERVICIO **E**

3 SALIDA DEL MODO SERVICIO

Telexcomando

- Presione el botón **ESC** o **EXIT**.

Panel de control TV

- Presione el botón **AVCL**.

II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE

1 REMOTE CONTROL - TELECOMANDO - FERNSEHGERÄT/TELECOMANDO - MANDO A DISTANZA

Navigation up

- Select option
- Option emulsion
- Retour à l'écran
- Change option
- Wert ändern
- Change value
- Change value

Navigation down

- Option emulsion
- Retour à l'écran
- Change option
- Wert ändern
- Change value
- Change value

2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISORE

Navigation up

- Select option
- Option emulsion
- Change option
- Wert ändern
- Change value
- Change value

Navigation down

- Select option
- Option emulsion
- Change option
- Wert ändern
- Change value
- Change value

3 STORED VALUES IN MEMORY - MEMORIZAZIONE DEI VALORI - SPECIFICAZIONE DEI VALORI - MEMORIZZAZIONE VALORI - VALORES ALMACENADOS EN LA MEMORIA

After setting, the values are stored in RAM.

Aprire il pannello di controllo del televisore e premere il tasto "Menu".

Pressing the "Menu" button on the RCU will activate the consumer menu.

The Service Menu can be re-enabled by pressing the "Menu" button on the RCU.

III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE - MENÜS IM SERVICE MODE

1 MAIN MENU - MENU PRINCIPAL - HAUPTMENÜ

Channel 1: Tube type: e4e42, e4e4, e4e4

Channel 2: Channel type: e4e4, e4e4, e4e4

Channel 3: Zoom enable: e4e4, e4e4, e4e4

Channel 4: AV Link Detect: e4e4, e4e4, e4e4

Channel 5: AV Link Detect: e4e4, e4e4, e4e4

Channel 6: AV Link Detect: e4e4, e4e4, e4e4

2 SUBMENU - SOUS-MENU - UNTERMENÜ

Channel 1: Tube type: e4e42, e4e4, e4e4

Channel 2: Channel type: e4e4, e4e4, e4e4

Channel 3: Zoom enable: e4e4, e4e4, e4e4

Channel 4: AV Link Detect: e4e4, e4e4, e4e4

Channel 5: AV Link Detect: e4e4, e4e4, e4e4

Channel 6: AV Link Detect: e4e4, e4e4, e4e4

ALIGNMENT PROCEDURE - PROCESBUS DE REGLAJES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DI REGOLAZIONE - PROCEDIMENTO DE ALINEAZIONE

VARS
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

VARS
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

VAMP
Menu
Set
Clear Preset
Menu
VAMP/ANV/MS
Set

SETUP
Clear Preset
VAMP/ANV/MS
Set
Set

▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE ▲ UP V DOWN ◀ RIGHT ▲ UP V DOWN ◀ CHANGE

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

GEOMETRY ZOOM 6
V-Value 180
H-Value 180
V-Offset 0
H-Offset 0
V-Position 0
H-Position 0
V-Range 0
H-Range 0

405 picture tube
Signal: 4/5 test pattern

Adjust Vertical Position and Horizontal Amplitude

Adjust V-Offset

Adjust V-Range

Adjust V-Position

Adjust H-Range

Adjust H-Position

605 picture tube
Signal: 4/5 test pattern

Adjust Vertical Position and Horizontal Amplitude

Adjust V-Offset

Adjust V-Range

Adjust V-Position

Adjust H-Range

Adjust H-Position

Vertical Interface - Entretoisement Vertical - Vertikal Interface

Check the vertical interface

Check the horizontal interface

Check the color interface

Check the sound interface

Check the power interface

Check the video interface

GEOMETRIE / CONVERGENCE ADJUSTMENT - GEOMETRIE / REGLAGES DES CONVERGENCES / GEOMETRIE / KONVERGENZ ABGLEICH - GEOMETRIA / REGOLAZIONE CONVERGENZA - GEOMETRIA / AJUSTE DE CONVERGENCIA

ADJUSTMENTS LEVELS

For every point on the screen, each of the three beams has a specific correction possibility in both horizontal and vertical planes. To achieve this, three levels of adjustment are available in the Service Mode. The unit is also equipped with an alignment grid pattern generator incorporated on the convergence circuit board.

Tous niveaux de réglage sont accessible dans le mode service et permettent à partir d'une mire de quadrillage générale per les niveaux de convergence d'apporter une correction horizontale et verticale aux trois faisceaux de couleur.

Für jeden Punkt des Bildschirmes und für jeden der drei Kathodenstrahlen ist eine spezielle Korrektur sowohl horizontal als auch vertikal, möglich. In Service-Mode sind drei Ebenen (Level) für den Abgleich der Konvergenz verfügbar. Das Gitterbild wird von der Konvergenzschaltung erzeugt.

Per ogni punto dello schermo, ognuno dei tre raggi ha una specifica possibilità di correzione. In entrambi i piani orizzontale e verticale. A questo scopo, sono disponibili tre livelli di regolazione in Service Mode. L'unità, inoltre, dispone di un generatore di griglia per l'allineamento, incorporato sulla piastrina convergenza.

Tres niveles de ajuste están disponibles en Modo Servicio y permiten a partir de una mira de cuadrícula generada por los circuitos de convergencia, efectuar correcciones específicas en los planos horizontal y vertical para cada uno de los tres haces.

LEVEL 1

9 points for Green and Blue

Factory adjusters reserved
Réserve aux réglages Usiner
Fabrik-einstellungen
Regolazione riservata alle ditte
Ajustes reservados para fábrica

**MUST NOT BE USED
NE DOIT PAS ÊTRE UTILISÉ
NUR NICHT VERWENDET
WERDEN
NO DEBE ESSERE USATO
NO DEBE SER USADO**

3 X 3 points

<p>LEVEL 2</p> <p>Large and general corrections Corrections générales élargies Gründereinstellungen Correzioni generali estese Correcciones generales y extendidas</p> <p>16 or 25 points</p> <p>3 X 6 points</p>	<p>LEVEL 3</p> <p>Small local corrections Petites corrections locales Feinststellungen Piccole correzioni locali Pequeñas correcciones locales</p> <p>165 points for Green, Red, Blue</p> <p>5 X 6 points</p> <p>Non Visible Area</p>
--	--

DESCRIPTION OF POSSIBLE CONVERGENCE PROBLEMS

RED AND BLUE PICTURE SHIFTED

RED AND BLUE PICTURE SHIFTED
Status Adjustment
- Select "CONVERGENCE" in the Install Menu.
- Correct the shift using the "NAVIGATION" buttons on the RCU.

OB
- Press the "INSTALL" button on the projector keyboard to select in installation menu.

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED
CENTRAL AREA IS CORRECT, BORDERS OR A SMALL AREAS ARE VERY POORLY ALIGNED
A - GREEN geometry is correct:
- Only adjust the Red and Blue geometry using Level 3 of the convergence menu, don't touch the green geometry!
B - GREEN needs a small adjustment:
- First adjust the Green geometry, then align the Red and Blue geometry using Level 3 convergence menu.

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT
GREEN GEOMETRY IS CORRECT
The some convergence lines are incorrect, but Green geometry is correct.
- Align Red and Blue geometry using convergence menu Level 2.
- Correct the borders if needed using convergence menu Level 3, don't touch the green geometry!

GREEN GEOMETRY IS POORLY ALIGNED

GREEN GEOMETRY IS POORLY ALIGNED
A - BLUE or RED geometry is correct:
- Enter the convergence menu Level 2 and press the YELLOW button on the RCU. The red, green and blue grids are displayed but only GREEN geometry can be aligned.
- Adjust the Green geometry to superimpose it on either the Red and/or Blue grid, to base alignment onto the best-corresponding color and cover the other line.
B - BLUE or RED is poorly aligned:
- Enter the Service Mode and select the GEOMETRY menu.
- Adjust the alignment of the HV Amplifier and EHV Correction settings. If the geometry does not respond to adjustment then:
- Select convergence menu Level 2 and press the YELLOW button on the RCU to select Green (OS) alignment routine.
- Check that the center point of the green grid is exactly center.
- Align the grid pattern borders exactly with the screen.
- Adjust the outer edge of the picture if necessary, using convergence menu Level 3.
- Align OSD convergence using menu Level 2 and if necessary the borders with Level 3.
- Repeat the above process for BLUE alignment.

IMAGE ROUGE ET BLEUE DÉCALÉES

IMAGE ROUGE ET BLEUE DÉCALÉES
Réglage Statique
- Sélectionner convergence dans le menu d'installation.
- Corriger le décalage avec les touches de navigation, sur le RCU.

F
- Appuyer sur la touche "INSTALL" du clavier du RP pour accéder au menu d'installation.

CENTRAL AREA IS CORRECT, BORDERS OR A SMALL AREAS ARE VERY POORLY ALIGNED

CENTRAL AREA IS CORRECT, BORDERS OR A SMALL AREAS ARE VERY POORLY ALIGNED
A - VERT a una geometría correcta:
- Regular solamente la Rouge et Bleu avec Level 3, ne pas toucher au vert!
B - VERT nécessite une légère correction:
- Régler le Vert avec Level 3 et corriger ensuite la Rouge et le Bleu avec Level 2.

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT
GREEN GEOMETRY IS CORRECT
Quelques lignes ont une convergence incorrecte mais le Vert a une géométrie correcte.
- Régler la Rouge et le Bleu avec Level 2.
- Corriger les bords si nécessaire avec Level 3, ne pas toucher au Vert!

GEOMETRIE DU VERT NON CORRECTE

GEOMETRIE DU VERT NON CORRECTE
A - Géométrie du BLEU ou ROUGE correcte:
- Sélectionner Level 2 et utiliser la touche jaune de la télécommande. Les images Rouge, Vert/Bleue sont affichées mais la correction s'effectue sur le Vert.
- Régler l'image du Vert afin de la superposer à celle du Rouge/Bleu de celle du Bleu. Courez le Bleu ou Rouge. Cliquez l'image sur la meilleure géométrie.
B - BLEU ou ROUGE ont une mauvaise géométrie:
- Sélectionner dans le mode service les Régilages de géométrie HV et Correction EHV/Ouvet.
- Régler la Géométrie.
Si la géométrie ne peut être corrigée:
- Sélectionner Level 2 pour le Vert (OS).
- Corriger la position du centre.
- Régler les côtés de la mire exactement par rapport aux bords de l'écran.
- Régler les bords externes de l'image avec Level 3 si nécessaire.
- Corriger la convergence avec Level 2 puis ensuite avec Level 3 pour les bords si nécessaire.
- Procéder de même pour le Bleu.

IMMAGINE ROSSA E BLU SPOSTATA.

IMMAGINE ROSSA E BLU SPOSTATA.
Regolazione statica
- Selezionare Convergence nel menu Install.
- Correggere lo spostamento utilizzando i tasti numerici, sul RCU.

I
- Premere il tasto "INSTALL" sul clavier du RP pour accéder au menu d'installation.

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED
L'AREA CENTRALE È CORRETTA, I BORDI O UNA PICCOLA AREA SONO SCORRETTI
A - La geometria del VERDE è corretta:
- Regolare solo Rosso e Blu utilizzando Level 3, non toccare il Verde!
B - Verde necessita piccole modifiche anche per il VERDE:
- Regolare il Verde perché il sovrappone su Rosso e Blu.

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT
GREEN GEOMETRY IS CORRECT
Alcune linee non sono in convergenza ma la geometria del Verde è corretta.
- Regolare Rosso e Blu utilizzando Level 2.
- Se necessario, correggere i bordi utilizzando Level 3, non toccare il Verde!

LA GEOMETRIA DEL VERDE È SCORRETTA.

LA GEOMETRIA DEL VERDE È SCORRETTA.
A - La geometria del BLEU o del ROUGE è corretta:
- Con il livello 2, utilizzare il pulsante giallo sul telecomando: vengono visualizzati Rosso, Verde e Blu ma la correzione vengono effettuate sul Verde.
- Regolare il Verde perché si sovrappone su Rosso e Blu.
Le linee Rosso e Blu per una facile regolazione devono essere coperte.
Sequenzialmente gli altri leggermente toccati.
- In Service Mode Geometry adjustment: amplizza HV (Orizzontale/Verticale) e Ess/West.
- Regolare la geometria.
Se la Geometria non è regolabile:
- Selezionare Level 2 per il Verde (OS).
- Correggere che il centro è ben esattamente in centro.
- Allineare i bordi dall'interno al bordo dello schermo.
- Se necessario, regolare la parte esterna dell'immagine utilizzando Level 3.
- Correggere il Rosso utilizzando Level 2 e, se necessario, Level 3 per i bordi.
- Ripetere la medesima procedura per il Blu.

IMAGEN ROJA Y AZUL DESPLAZADA.

IMAGEN ROJA Y AZUL DESPLAZADA.
Ajuste estático
- Seleccionar Convergencia en el menú Install.
- Corregir el desplazamiento con los teclas de navegación, en el RCU.

E
- Presionar el botón "INSTALL" del teclado del proyector para seleccionar en el menú de instalación.

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED
CORREZIONE DELL'EFFETTO BANDING
L'effetto banding è a non-uniform area or streaks on the screen, which can happen after convergence adjustments have been performed in Level 3. The effect can be caused by either - two horizontal lines being too far apart (a dark area). The effect is most visible on a uniform picture (see diagram below).
Adjustment Procedure:
1. Identify the color causing the problem and then blank off the other two lines.
2. Remove the test grid pattern by disconnecting the cable connected to socket BPO1 on the DCU board.
3. Adjust the brightness of the non-uniform area using the "NAVIGATION" (up, down, left and right) buttons on the RCU.
4. Select the next color position using the NUMERICAL buttons on the RCU and adjust its brightness.
5. After completing the adjustment procedure, reconnect the cable to BPO1 on the DCU board.

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT
CORREZIONE DELL'EFFETTO BANDING
L'effetto banding è a non-uniform area or streaks on the screen, which can happen after convergence adjustments have been performed in Level 3. The effect can be caused by either - two horizontal lines being too far apart (a dark area). The effect is most visible on a uniform picture (see diagram below).
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2. Remove the test grid pattern by disconnecting the cable connected to socket BPO1 on the DCU board.
3. Adjust the brightness of the non-uniform area using the "NAVIGATION" (up, down, left and right) buttons on the RCU.
4. Select the next color position using the NUMERICAL buttons on the RCU and adjust its brightness.
5. After completing the adjustment procedure, reconnect the cable to BPO1 on the DCU board.

INFORMATION NOTE - INFORMATION - NOTA INFORMATIVA - NOTA DE INFORMACIÓN

CONCORRECTION OF BANDING EFFECT

The "banding effect" is a non-uniform area or streaks on the screen, which can happen after convergence adjustments have been performed in Level 3. The effect can be caused by either - two horizontal lines being too far apart (a dark area). The effect is most visible on a uniform picture (see diagram below).
Adjustment Procedure:
1. Identify the color causing the problem and then blank off the other two lines.
2. Remove the test grid pattern by disconnecting the cable connected to socket BPO1 on the DCU board.
3. Adjust the brightness of the non-uniform area using the "NAVIGATION" (up, down, left and right) buttons on the RCU.
4. Select the next color position using the NUMERICAL buttons on the RCU and adjust its brightness.
5. After completing the adjustment procedure, reconnect the cable to BPO1 on the DCU board.

KORREKTUR DES BANDING-EFFEKTES

Der Banding-Effekt ist eine ungleichmäßige Zone oder ein Streifen auf dem Bildschirm. Dies kann nach einem Konvergenzabgleich in Level 3 auftreten. Der Effekt ist besonders sichtbar bei einem gleichfarbigen Bild (siehe Diagramm unten).
Einstellungsverfahren:
1. Bestimmen Sie die Farbe, welche Farbe den Effekt verursacht indem Sie jeweils zwei Farben abdunkeln.
2. Entfernen Sie das Konvergenznetzwerk Level 3 und wählen Sie den Abgleich für die jeweilige Farbe.
3. Halten Sie den Abgleich für die jeweilige Farbe.
4. Halten Sie den Abgleich für die jeweilige Farbe.
5. Halten Sie den Abgleich für die jeweilige Farbe.
6. Halten Sie den Abgleich für die jeweilige Farbe.
7. Halten Sie den Abgleich für die jeweilige Farbe.
8. Halten Sie den Abgleich für die jeweilige Farbe.
9. Halten Sie den Abgleich für die jeweilige Farbe.
10. Halten Sie den Abgleich für die jeweilige Farbe.

CORRECCION DEL EFECTO DE BANDA

El efecto de banda es un área no uniforme (oscura o clara) en la pantalla que puede ocurrir después de haber realizado ajustes de convergencia en el nivel 3. El efecto puede ser causado por dos causas:
- Dos líneas horizontales están demasiado separadas (un área oscura).
- Cuando 2 líneas horizontales están demasiado cercanas (un área más brillante).
Este efecto es más visible en una imagen uniforme (ver el diagrama a continuación).
Procedimiento:
1. Identifique el color que ocasiona el fallo cubriendo 2 líneas, de modo que sólo se vea un color en una pantalla de prueba blanca.
2. Seleccione el nivel 3 para el color correspondiente.
3. Coloque el cursor en el lugar deseado.
4. Retire la grilla cubriendo el cable del conector BPO1 en la placa DCU.
5. Regule la brillo de uniformidad en el brillo.
6. Seleccione el nivel 3 para el color correspondiente.
7. Corrija la falta de uniformidad en el brillo.
8. Seleccione el nivel 3 para el color correspondiente.
9. Repita la misma operación para azul.

CONVERGENCE ADJUSTMENT - REGLAGES DES CONVERGENCES - KONVERGENZ ABGLEICH - REGOLAZIONE CONVERGENZA - AJUSTE DE CONVERGENCIA

Rev.No. VAL-06 00AM:20
Control No. AGD-4678
Serial No. AGD-4678

- QUIT
- TUBE SETUP
- GEOMETRY
- VIDEO ERROR
- CONVERGENCE

▲ UP ▼ DOWN ◀▶ SELECT

SERVICE MODE

- Select "CONVERGENCE"

Please Note:

- Level 1 menu line (factory alignment) must be used. The alignment procedure must also be repeated for 16:9 format.

CONVERGENCE ALIGNMENT

Return Alignment Mode 43...
Level 1 (8 x 3)
Level 2 (8 x 3)
Level 3 (16 x 15)
Default Store Restore

▲ UP ▼ DOWN ◀▶ CHANGE

LEVEL 2 ALIGNMENT MENU :

- Press the "OK" button on the RCU to activate the Green test grid pattern, this is used throughout the alignment procedure as a reference.
- Confirm that the Green geometry is correct.
- Press the "RED" button on the RCU to activate the red test grid, the cursor will be set to the centre point on the red grid.
- Using the "NAVIGATION" ("↑", "↓", "←", "→"), "←" left and "→" right) buttons on the RCU, align the red central cursor position to the green centre grid reference point.
- A long press on the associated "NAVIGATION" button on the RCU will accelerate the step size of the adjustment.
- Press the "OK" button on the RCU to advance to the next cursor position and repeat the alignment process until all twenty five (25) screen bottom left alignment positions have been checked.

LEVEL 3 ALIGNMENT MENU :

- Press the "OK" button on the RCU to advance to the next cursor position and repeat the alignment process until all twenty five (25) screen bottom left alignment positions have been checked.

IMPORTANT :

When the last point has been adjusted:

- Press the "OK" button on the RCU only one time and wait for 8Sec.
- The microprocessor will calculate all the intermediate positions and nothing will happen for 10s, then the cursor will disappear for 15s. Finally the cursor will re-appear move back through all adjustment points to the centre point on the test grid.

Press the "EXIT" button on the RCU to return to "Level 2" menu.

- Select "STORE" on the convergence menu.
- Check for "Banding Effect" (see information note page 32).
- Repeat the alignment procedure for "16:9".

LEVEL 3 ALIGNMENT :

Each one of the 16:9 alignment can be reached by:

- Using the NUMERICAL buttons 2 (up), 8 (down), 6 (right) and 4 (left) on the RCU to position the cursor on the screen.
- Convergence alignment is done using the "NAVIGATION" ("↑", "↓", "←", "→"), "←" left and "→" right) buttons on the RCU.
- Press the "EXIT" button on the RCU to return to "Level 2" menu.
- Select "RETURN" on the menu.
- Next select "STORE" on the convergence menu.
- Check for "Banding Effect" (see information note page 32).

IMPORTANT :

Once "Level 3" alignment is completed, do not use "Level 2" otherwise all adjustments made in "Level 3" will be ERASED.

16:9 : Select 16:9 format in the Convergence Alignment menu and repeat the above procedure.

Convergence defaults :

If the convergence alignment is completely wrong most adjustments can be made starting with the factory convergence values, these are stored in the NVM as default values.

Default Red/Green/Blue : All of the colour convergence default values are stored in the Convergence RAM IC.

Default Red : Load the value for either Red, Green or Blue.

Default Green :
Default Blue :

Restore : copies the last stored values from the NVM to the convergence RAM IC.

Store : Copies all Convergence RAM values to the NVM.

SERVICE MODE

- Sélectionner "CONVERGENCE"

Note :

La procédure de réglage s'applique également au format 16:9.

MENU D'ALIGNEMENT "LEVEL 2" :

- Appuyer sur la touche OK de la télécommande.
- La mire de convergence apparaît.
- Confirmer que la géométrie est verte.
- Appuyer sur la touche Rouge de la télécommande pour régler le Rouge par rapport à la mire du Vert servant de référence.
- Utiliser les touches de navigation "↑", "↓", "←", "→", "←" et "→" de la télécommande pour effectuer le réglage.
- Une longue pression permet d'accroître un effet d'accélération du réglage.
- Après le réglage du centre :
- Appuyer sur OK pour la sélection du point suivant à régler.
- Lorsque ce second point est aligné et si aucun réglage n'est nécessaire appuyer sur la touche "OK".
- Effectuer ainsi jusqu'au dernier point (25) au coin inférieur gauche.

IMPORTANT :

Lorsque le dernier point est réglé :

- Appuyer sur "OK" une seule fois et attendre 8s.
- Le microprocesseur calcule toutes les positions intermédiaires: rien ne se passe à l'écran durant 10s. Le curseur disparaît pendant 15s. Finalement, les toutes les positions, il se stabilise au centre de l'écran.

ABGLEICHMENT "LEVEL 2" :

- Drücken Sie die OK-Taste auf der Fernbedienung um das Grün-Gittermuster zu aktivieren. Dieses dient für den gesamten Abgleich als Referenz.
- Überprüfen Sie die Grün-Geometrie.
- Drücken Sie die rote Taste auf der Fernbedienung um das rote Gittermuster zu aktivieren. Der Cursor erscheint in der Mitte des roten Gitters.
- Mit den Pfeiltasten ("↑", "hoch", "↑", "runter", "←", "links", "→", "rechts") auf der Fernbedienung bringen Sie die Mitte des roten Cursors auf die Mitte des Bezugspunktes im grünen Gitter.
- Ein längeres Drücken der Pfeiltasten erhöht die Schrittgröße beim Abgleich.
- Drücken Sie die OK-Taste um auf die nächste Cursor-Position zu gelangen. Wiederholen Sie den Abgleich bis alle 25 Abgleichpunkte (der 25. Punkt ist links unten) korrigiert sind.

WENN DER LETZTE PUNKT ABGLEICHEN WURDE :

- Drücken Sie die OK-Taste nur einmal und warten Sie etwa 8s.
- Der Mikroprozessor berechnet alle Zwischenpositionen. Für etwa 10s geschieht nichts, dann verschwindet der Cursor für etwa 15s. Danach kehrt der Cursor über alle Abgleichpunkte zurück in die Mitte des Gittermusters.

ABGLEICHMENT "LEVEL 3" :

Each one of the 16:9 alignment can be reached by:

- Using the NUMERICAL buttons 2 (up), 8 (down), 6 (right) and 4 (left) on the RCU to position the cursor on the screen.
- Convergence alignment is done using the "NAVIGATION" ("↑", "↓", "←", "→"), "←" left and "→" right) buttons on the RCU.
- Press the "EXIT" button on the RCU to return to "Level 2" menu.
- Select "RETURN" on the menu.
- Next select "STORE" on the convergence menu.
- Check for "Banding Effect" (see information note page 32).

IMPORTANT :

Une vez configurado el "nivel 3", no utilice el "nivel 2" o perderá las correcciones efectuadas en el 3.

16:9 : Seleccionar 16:9 dans le menu Mode alignment; répéter la procédure.

Valeurs par défauts :

En cas de dérèglements importants des convergences, l'alignement peut être repris à partir des valeurs usines.

Les valeurs par défaut sont mémorisées en NVM.

Default Red/Green/Blue : Toutes les valeurs par défaut de trois couleurs sont mémorisées dans la RAM de convergence.

Default Red : Charge les valeurs pour le rouge, le Vert ou le Bleu.

Default Green :
Default Blue :

Restoro : copie toutes les valeurs des données NVM en mémoire RAM de convergence.

Store : Copie la valeur RAM en NVM de convergence.

SERVICE MODE

- Wählen Sie "CONVERGENCE"

Bitte beachten sie:

- Die Einstellungen im Level 1 sind Werks-Einstellungen und sollen nicht verändert werden.
- Der Konvergenzgleichheit auch für das 16:9 Format vorzunehmen.

ABGLEICHMENT "LEVEL 2" :

- Drücken Sie die OK-Taste auf der Fernbedienung um das Grün-Gittermuster zu aktivieren. Dieses dient für den gesamten Abgleich als Referenz.
- Überprüfen Sie die Grün-Geometrie.
- Drücken Sie die rote Taste auf der Fernbedienung um das rote Gittermuster zu aktivieren. Der Cursor erscheint in der Mitte des roten Gitters.
- Mit den Pfeiltasten ("↑", "hoch", "↑", "runter", "←", "links", "→", "rechts") auf der Fernbedienung bringen Sie die Mitte des roten Cursors auf die Mitte des Bezugspunktes im grünen Gitter.
- Ein längeres Drücken der Pfeiltasten erhöht die Schrittgröße beim Abgleich.
- Drücken Sie die OK-Taste um auf die nächste Cursor-Position zu gelangen. Wiederholen Sie den Abgleich bis alle 25 Abgleichpunkte (der 25. Punkt ist links unten) korrigiert sind.

WENN DER LETZTE PUNKT ABGLEICHEN WURDE :

- Drücken Sie die OK-Taste nur einmal und warten Sie etwa 8s.
- Der Mikroprozessor berechnet alle Zwischenpositionen. Für etwa 10s geschieht nichts, dann verschwindet der Cursor für etwa 15s. Danach kehrt der Cursor über alle Abgleichpunkte zurück in die Mitte des Gittermusters.

SERVICE MODE

- Selezionare "CONVERGENCE"

Note :

La procedura deve essere effettuata anche in modo 16:9.

LEVEL 2 MENU DI REGOLAZIONE :

- Premere il tasto "OK" sul telecomando. Viene visualizzata la griglia verde.
- Verificare che la geometria della griglia Verde sia corretta.
- Premere il tasto Rosso sul telecomando per regolare il Rosso con la griglia Verde come riferimento.
- Il cursore si trova al centro.
- Utilizzare i tasti su, giù sinistra e destra sul telecomando per regolare la posizione di allineamento.
- Premere il tasto "OK" per selezionare la posizione successiva da regolare. Quando il secondo punto è stato regolato o la regolazione non è necessaria, premere il tasto "OK".
- Premere la procedura fino a raggiungere l'ultimo punto (25) sulla parte inferiore sinistra.

Una vez configurado el "nivel 3", no utilice el "nivel 2" o perderá las correcciones efectuadas en el 3.

SERVICE MODE

- Selezionare "CONVERGENCE"

Note :

La procedura deve essere effettuata anche in modo 16:9.

LEVEL 2 MENU DI REGOLAZIONE :

- Premere il tasto "OK" sul telecomando. Viene visualizzata la griglia verde.
- Verificare che la geometria della griglia Verde sia corretta.
- Premere il tasto Rosso sul telecomando per regolare il Rosso con la griglia Verde come riferimento.
- Il cursore si trova al centro.
- Utilizzare i tasti su, giù sinistra e destra sul telecomando per regolare la posizione di allineamento.
- Premere il tasto "OK" per selezionare la posizione successiva da regolare. Quando il secondo punto è stato regolato o la regolazione non è necessaria, premere il tasto "OK".
- Premere la procedura fino a raggiungere l'ultimo punto (25) sulla parte inferiore sinistra.

SERVICE MODE

- Selezionare "CONVERGENCE"

Note :

La procedura deve essere effettuata anche in modo 16:9.

LEVEL 2 MENU DI REGOLAZIONE :

- Premere il tasto "OK" sul telecomando. Viene visualizzata la griglia verde.
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Note :

In the event of it being necessary to replace all three tubes (tubes marked or still operational), it is easier, when making convergence adjustments, to replace one tube first, and converge it to the two other tubes in order to keep the original geometry setting. Then replace the two other tubes and realign them to the reference tube.

En cas de nécessité de changement des trois tubes (tubes marqués ou encore fonctionnels) il est plus simple, au niveau du réglage des convergences, de changer d'abord un tube, de le converger sur les deux autres pour conserver le réglage de géométrie original.

Ensuite changer les deux autres tubes et les réaligner sur le tube de référence.

Im Falle, daß ein Auswechseln aller drei Röhren notwendig ist, ist es einfacher (falls die Röhren noch funktionstüchtig sind), die notwendige Konvergenzeinstellung so vorzunehmen, daß zunächst erst eine Röhre ausgewechselt wird. Gleichen Sie diese den beiden alten Röhren an, damit Sie die originale geometrische Einstellung haben.

Wechseln Sie dann die beiden anderen Röhren und gleichen Sie diese der Referenzröhre an.

Nel caso in cui si renda necessaria la sostituzione dei tre tubi (tubi marcati o ancora in funzione) è più semplice, quando si eseguono regolazioni della convergenza, sostituire prima un tubo e convergerlo agli altri due per conservare la regolazione di geometria iniziale. Sostituire quindi gli altri due tubi e riallinearli al tubo di riferimento.

Si necesita cambiar los 3 tubos (tubos marcados o aún funcionales), resulta más fácil, en lo que respecta al ajuste de las convergencias, cambiar primero un tubo y convergerlo sobre los otros 2 para mantener la configuración de la geometría original.

Cambie seguidamente los otros dos tubos y proceda a realinearlos con el tubo de referencia.

En caso de necesidad de cambio de los tres tubos (tubos marcados o aún funcionales), resulta más fácil, en lo que respecta al ajuste de las convergencias, cambiar primero un tubo y convergerlo sobre los otros 2 para mantener la configuración de la geometría original.

Cambie seguidamente los otros dos tubos y proceda a realinearlos con el tubo de referencia.

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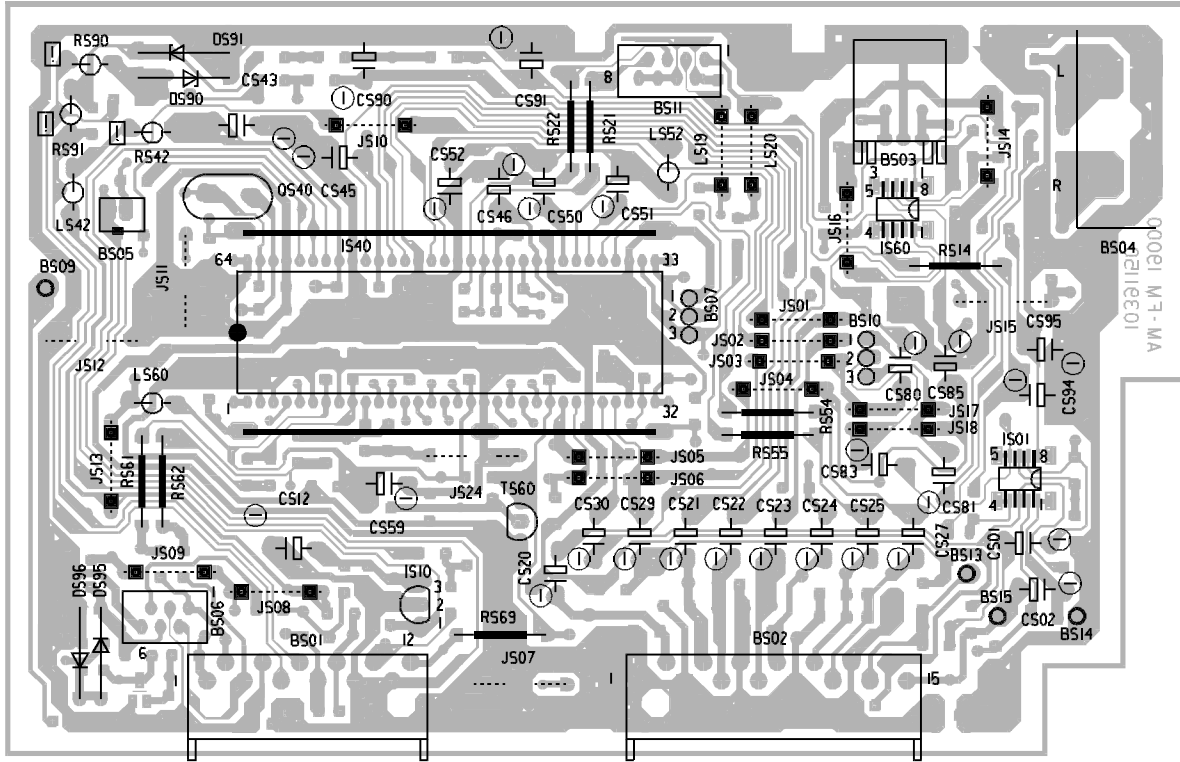
Cambie seguidamente los otros dos tubos y proceda a realinearlos con el tubo de referencia.

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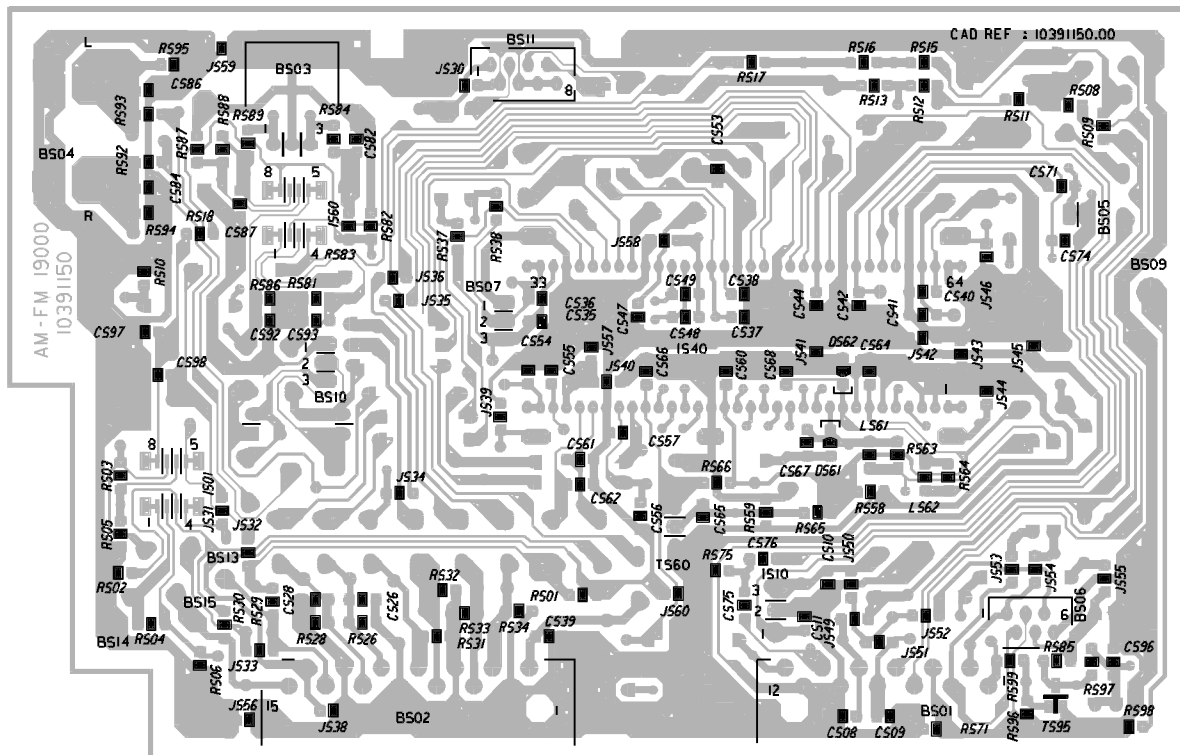
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AM/FM 19101 - AM/VD 19000

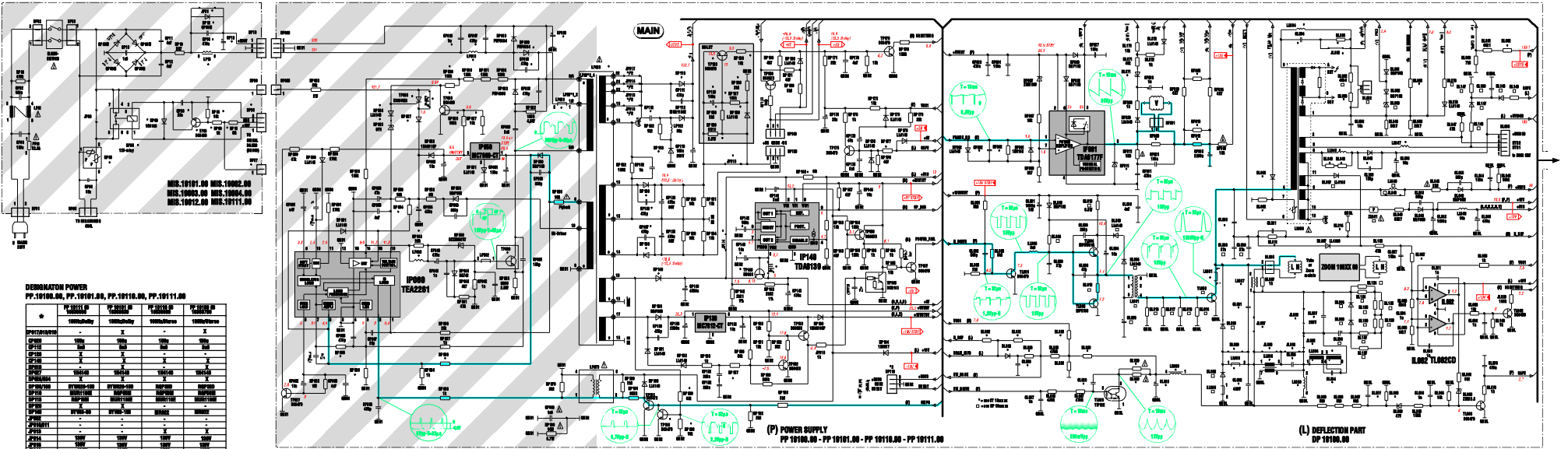
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



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



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



DEMONSTRATION POWER
PP.10106.00, PP.10101.00, PP.10110.00, PP.10111.00

	PP.10106.00	PP.10101.00	PP.10110.00	PP.10111.00
SP001	X	X	X	X
SP002	X	X	X	X
SP003	X	X	X	X
SP004	X	X	X	X
SP005	X	X	X	X
SP006	X	X	X	X
SP007	X	X	X	X
SP008	X	X	X	X
SP009	X	X	X	X
SP010	X	X	X	X
SP011	X	X	X	X
SP012	X	X	X	X
SP013	X	X	X	X
SP014	X	X	X	X
SP015	X	X	X	X
SP016	X	X	X	X
SP017	X	X	X	X
SP018	X	X	X	X
SP019	X	X	X	X
SP020	X	X	X	X
SP021	X	X	X	X
SP022	X	X	X	X
SP023	X	X	X	X
SP024	X	X	X	X
SP025	X	X	X	X
SP026	X	X	X	X
SP027	X	X	X	X
SP028	X	X	X	X
SP029	X	X	X	X
SP030	X	X	X	X
SP031	X	X	X	X
SP032	X	X	X	X
SP033	X	X	X	X
SP034	X	X	X	X
SP035	X	X	X	X
SP036	X	X	X	X
SP037	X	X	X	X
SP038	X	X	X	X
SP039	X	X	X	X
SP040	X	X	X	X
SP041	X	X	X	X
SP042	X	X	X	X
SP043	X	X	X	X
SP044	X	X	X	X
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SP100	X	X	X	X
SP101	X	X	X	X
SP102	X	X	X	X
SP103	X	X	X	X
SP104	X	X	X	X
SP105	X	X	X	X
SP106	X	X	X	X
SP107	X	X	X	X
SP108	X	X	X	X
SP109	X	X	X	X
SP110	X	X	X	X

X Inserted
Not Inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primordialteil des Heizelektroden.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

Use isolating mains transformer
Utiliser un transformateur isolateur du secteur
Eigen Transzorro verwenden
Utilizzare un trasformatore isolador de red
Utilizzare un trasformatore per isolarti dalla rete

Notes:
Power Supply primary circuit measurements:
- Use only (GND1) connection point.
Attention:
- Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (GND1).
Achtung:
- Bei Messungen im Primärkreis
- Primärkreismasse verwenden (GND1).
Attenzione:
- misure nell'alimentatore primario
- usare massa alimentazione primario (GND1).
Cuidado:
- Medidas en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Safety Part
When repairing, use original part only
Pièces de sécurité
N'utilisez que les pièces d'origine
Sicherheitsbestandteil
Bei Ersatz nur Originalteile verwenden
Component of safety
Component di sicurezza
Plaza de seguridad
Utilice sólo piezas originales

Ref	Value / Note
CT 10001 BA	250V 100mA
CT 10002 BA	250V 100mA
CT 10003 BA	250V 100mA
CT 10004 BA	250V 100mA
CT 10005 BA	250V 100mA
CT 10006 BA	250V 100mA
CT 10007 BA	250V 100mA
CT 10008 BA	250V 100mA
CT 10009 BA	250V 100mA
CT 10010 BA	250V 100mA
CT 10011 BA	250V 100mA
CT 10012 BA	250V 100mA
CT 10013 BA	250V 100mA
CT 10014 BA	250V 100mA
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CT 10016 BA	250V 100mA
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CT 10029 BA	250V 100mA
CT 10030 BA	250V 100mA
CT 10031 BA	250V 100mA
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CT 10045 BA	250V 100mA
CT 10046 BA	250V 100mA
CT 10047 BA	250V 100mA
CT 10048 BA	250V 100mA
CT 10049 BA	250V 100mA
CT 10050 BA	250V 100mA

Ref	Value / Note
CT 10051 BA	250V 100mA
CT 10052 BA	250V 100mA
CT 10053 BA	250V 100mA
CT 10054 BA	250V 100mA
CT 10055 BA	250V 100mA
CT 10056 BA	250V 100mA
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CT 10098 BA	250V 100mA
CT 10099 BA	250V 100mA
CT 10100 BA	250V 100mA

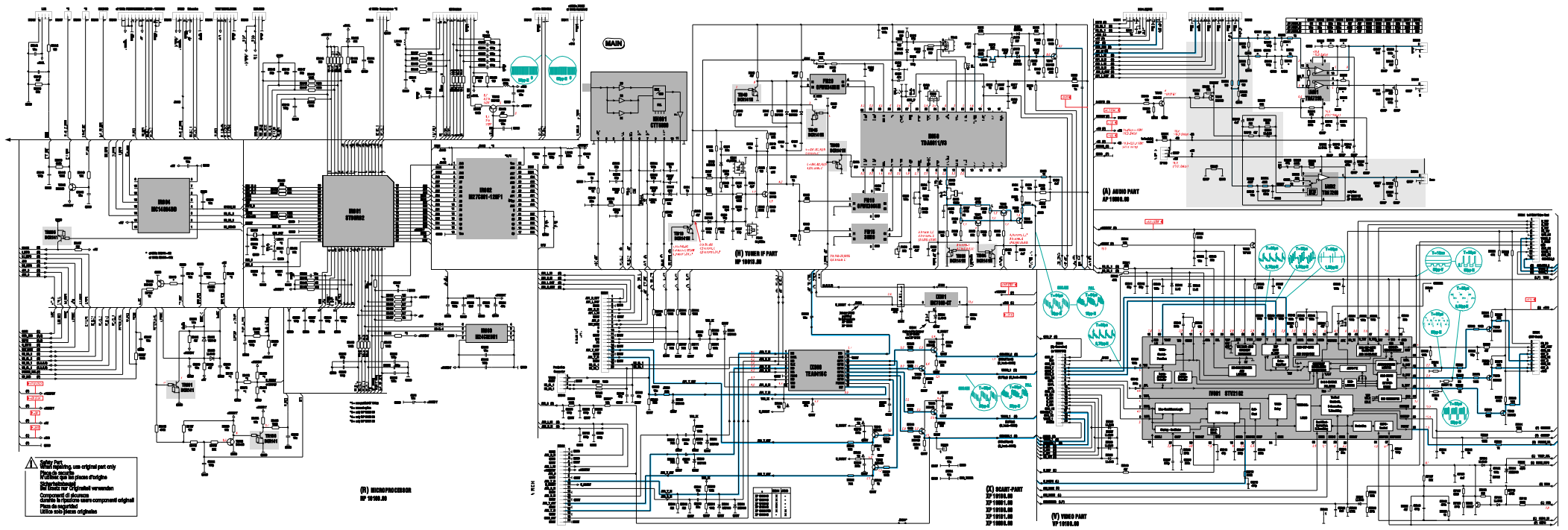
Ref	Value / Note
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CT 10132 BA	250V 100mA
CT 10133 BA	250V 100mA
CT 10134 BA	250V 100mA
CT 10135 BA	250V 100mA
CT 10136 BA	250V 100mA
CT 10137 BA	250V 100mA
CT 10138 BA	250V 100mA
CT 10139 BA	250V 100mA
CT 10140 BA	250V 100mA

Note: the last two numbers of the CT xxx part list name indicates the system voltage.
e.g. CT 10005 31 Ulys 131V →

Note: Los dos últimos números de la denominación CT xxx, indica la tensión Ulys
e.g. CT 10005 31 Ulys 131V →

X Inserted
Not Inserted

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



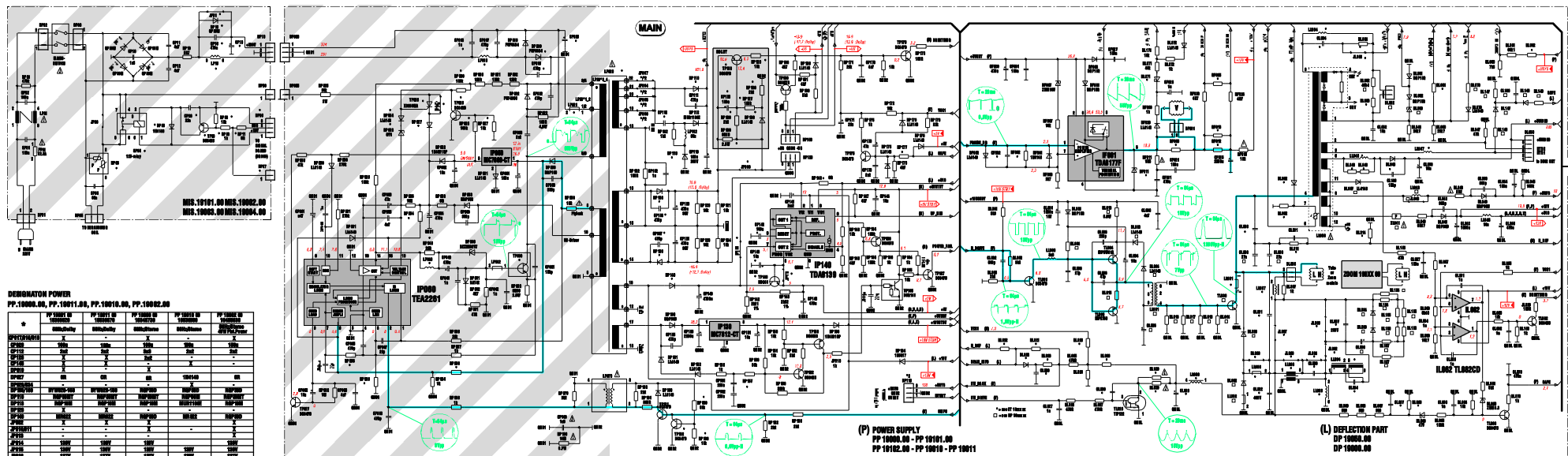
⚠ Safety Part
 Must always use original part only
 (Original supplier)
 ⚠ Precaution
 Component of process
 Cannot be replaced with component original
 (Part de rechange)
 (Utile only piece originale)

(M) MEMORY PART
MP100L.M

(C) CPU PART
CP100L.M
LAYER 01
LAYER 02
LAYER 03

(V) VIDEO PART
VP100L.M

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



DESIGNATOR POWER
PP 1000A.00, PP 1001A.00, PP 1001B.00, PP 1001C.00, PP 1002.00

* DESIGNATOR	PP 1000A.00	PP 1001A.00	PP 1001B.00	PP 1001C.00	PP 1002.00
CP001					
CP002					
CP003					
CP004					
CP005					
CP006					
CP007					
CP008					
CP009					
CP010					
CP011					
CP012					
CP013					
CP014					
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CP147					
CP148					
CP149					
CP150					

X Inserted
Not inserted

* Alimentazione	PP1000A	PP1001A	PP1001B	PP1001C	PP1002
ALM. SECC. 150V/250V	X	X	X	X	X
ALM. SECC. 220V	X	X	X	X	X
ALM. SECC. 230V	X	X	X	X	X
ALM. SECC. 250V	X	X	X	X	X
ALM. SECC. 270V	X	X	X	X	X
ALM. SECC. 290V	X	X	X	X	X
ALM. SECC. 310V	X	X	X	X	X
ALM. SECC. 330V	X	X	X	X	X
ALM. SECC. 350V	X	X	X	X	X
ALM. SECC. 370V	X	X	X	X	X
ALM. SECC. 390V	X	X	X	X	X
ALM. SECC. 410V	X	X	X	X	X
ALM. SECC. 430V	X	X	X	X	X
ALM. SECC. 450V	X	X	X	X	X
ALM. SECC. 470V	X	X	X	X	X
ALM. SECC. 490V	X	X	X	X	X
ALM. SECC. 510V	X	X	X	X	X
ALM. SECC. 530V	X	X	X	X	X
ALM. SECC. 550V	X	X	X	X	X
ALM. SECC. 570V	X	X	X	X	X
ALM. SECC. 590V	X	X	X	X	X
ALM. SECC. 610V	X	X	X	X	X
ALM. SECC. 630V	X	X	X	X	X
ALM. SECC. 650V	X	X	X	X	X
ALM. SECC. 670V	X	X	X	X	X
ALM. SECC. 690V	X	X	X	X	X
ALM. SECC. 710V	X	X	X	X	X
ALM. SECC. 730V	X	X	X	X	X
ALM. SECC. 750V	X	X	X	X	X
ALM. SECC. 770V	X	X	X	X	X
ALM. SECC. 790V	X	X	X	X	X
ALM. SECC. 810V	X	X	X	X	X
ALM. SECC. 830V	X	X	X	X	X
ALM. SECC. 850V	X	X	X	X	X
ALM. SECC. 870V	X	X	X	X	X
ALM. SECC. 890V	X	X	X	X	X
ALM. SECC. 910V	X	X	X	X	X
ALM. SECC. 930V	X	X	X	X	X
ALM. SECC. 950V	X	X	X	X	X
ALM. SECC. 970V	X	X	X	X	X
ALM. SECC. 990V	X	X	X	X	X
ALM. SECC. 1000V	X	X	X	X	X

X Inserted
Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärsseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

Using isolating mains transformer.
Einen Transformator verwenden.
Utiliser un transformateur isolateur du secteur.
Utilizzare un trasformatore per isolati della rete.

⚠ Safety Part
When repairing, use original part only.
Placa de securitate
N'utilizez decât piesele originale
Sicherheitsbestandteil
Bei Ersatz nur Originalteil verwenden.
Component di sicurezza
durante la riparazione usare componenti originali.
Placa de seguridad
Utilice solo piezas originales.

Notes:
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Alimentation :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (GND1).
Aufbauung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (GND1).
Attenzione :
misura nell'alimentazione primaria
- usare massa alimentazione primaria (GND1).
Calcular :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

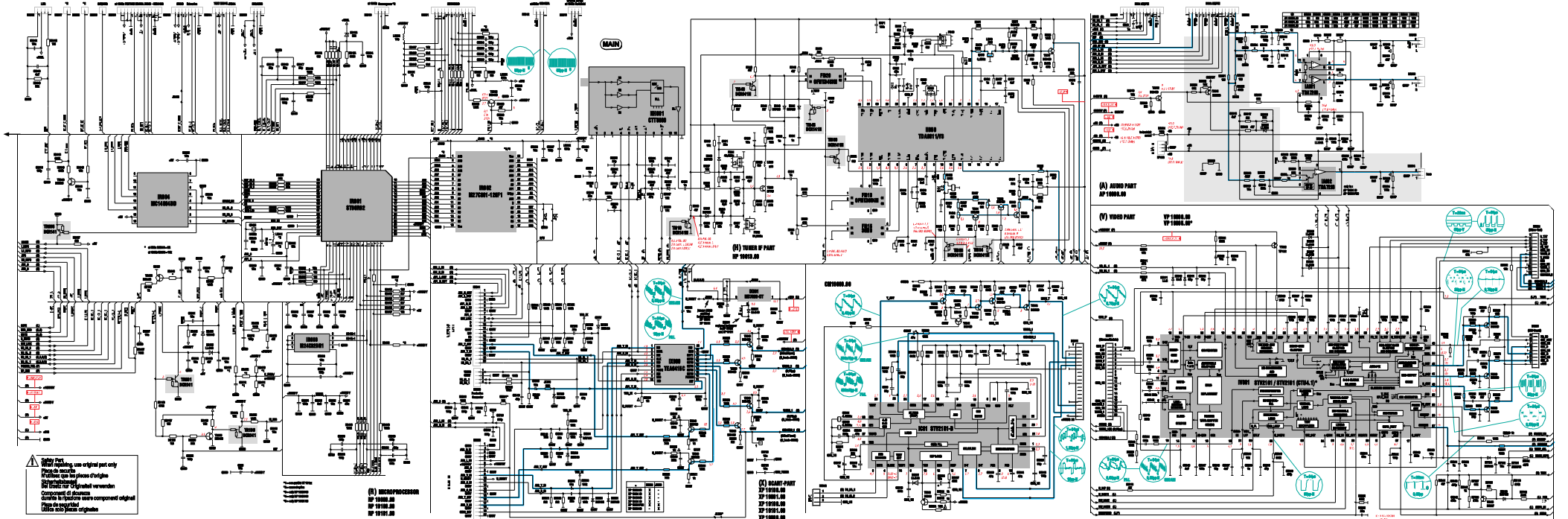
Deflection - Scada Partii

	CT 1000A	CT 1001A	CT 1001B	CT 1001C	CT 1002
DL001	X	X	X	X	X
DL002	X	X	X	X	X
DL003	X	X	X	X	X
DL004	X	X	X	X	X
DL005	X	X	X	X	X
DL006	X	X	X	X	X
DL007	X	X	X	X	X
DL008	X	X	X	X	X
DL009	X	X	X	X	X
DL010	X	X	X	X	X
DL011	X	X	X	X	X
DL012	X	X	X	X	X
DL013	X	X	X	X	X
DL014	X	X	X	X	X
DL015	X	X	X	X	X
DL016	X	X	X	X	X
DL017	X	X	X	X	X
DL018	X	X	X	X	X
DL019	X	X	X	X	X
DL020	X	X	X	X	X
DL021	X	X	X	X	X
DL022	X	X	X	X	X
DL023	X	X	X	X	X
DL024	X	X	X	X	X
DL025	X	X	X	X	X
DL026	X	X	X	X	X
DL027	X	X	X	X	X
DL028	X	X	X	X	X
DL029	X	X	X	X	X
DL030	X	X	X	X	X
DL031	X	X	X	X	X
DL032	X	X	X	X	X
DL033	X	X	X	X	X
DL034	X	X	X	X	X
DL035	X	X	X	X	X
DL036	X	X	X	X	X
DL037	X	X	X	X	X
DL038	X	X	X	X	X
DL039	X	X	X	X	X
DL040	X	X	X	X	X
DL041	X	X	X	X	X
DL042	X	X	X	X	X
DL043	X	X	X	X	X
DL044	X	X	X	X	X
DL045	X	X	X	X	X
DL046	X	X	X	X	X
DL047	X	X	X	X	X
DL048	X	X	X	X	X
DL049	X	X	X	X	X
DL050	X	X	X	X	X
DL051	X	X	X	X	X
DL052	X	X	X	X	X
DL053	X	X	X	X	X
DL054	X	X	X	X	X
DL055	X	X	X	X	X
DL056	X	X	X	X	X
DL057	X	X	X	X	X
DL058	X	X	X	X	X
DL059	X	X	X	X	X
DL060	X	X	X	X	X
DL061	X	X	X	X	X
DL062	X	X	X	X	X
DL063	X	X	X	X	X
DL064	X	X	X	X	X
DL065	X	X	X	X	X
DL066	X	X	X	X	X
DL067	X	X	X	X	X
DL068	X	X	X	X	X
DL069	X	X	X	X	X
DL070	X	X	X	X	X
DL071	X	X	X	X	X
DL072	X	X	X	X	X
DL073	X	X	X	X	X
DL074	X	X	X	X	X
DL075	X	X	X	X	X
DL076	X	X	X	X	X
DL077	X	X	X	X	X
DL078	X	X	X	X	X
DL079	X	X	X	X	X
DL080	X	X	X	X	X
DL081	X	X	X	X	X
DL082	X	X	X	X	X
DL083	X	X	X	X	X
DL084	X	X	X	X	X
DL085	X	X	X	X	X
DL086	X	X	X	X	X
DL087	X	X	X	X	X
DL088	X	X	X	X	X
DL089	X	X	X	X	X
DL090	X	X	X	X	X
DL091	X	X	X	X	X
DL092	X	X	X	X	X
DL093	X	X	X	X	X
DL094	X	X	X	X	X
DL095	X	X	X	X	X
DL096	X	X	X	X	X
DL097	X	X	X	X	X
DL098	X	X	X	X	X
DL099	X	X	X	X	X
DL100	X	X	X	X	X

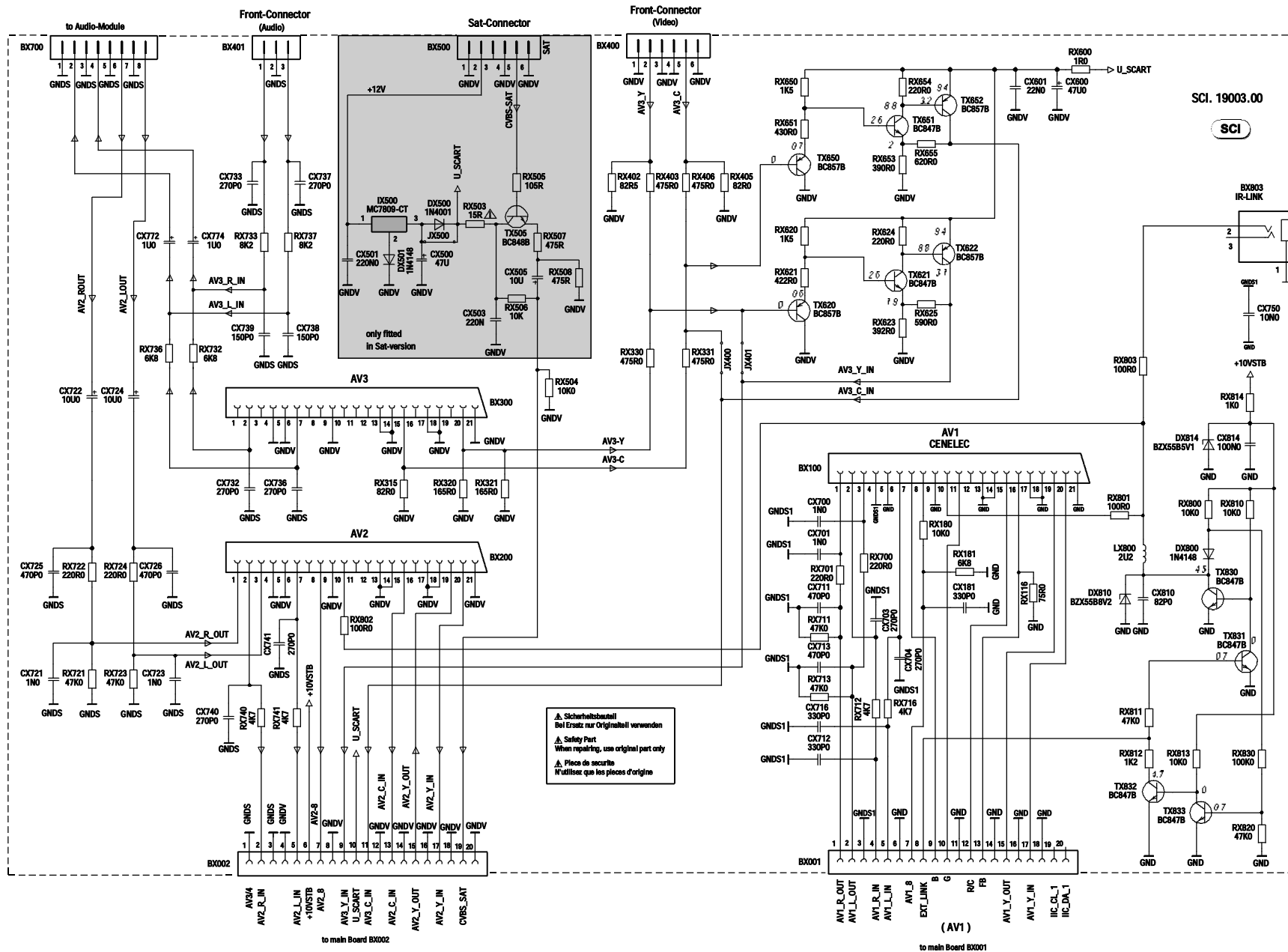
Deflection - Voltaje Varible Partii

	CT 1000A	CT 1001A	CT 1001B	CT 1001C	CT 1002
DL001	X	X	X	X	X
DL002	X	X	X	X	X

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA

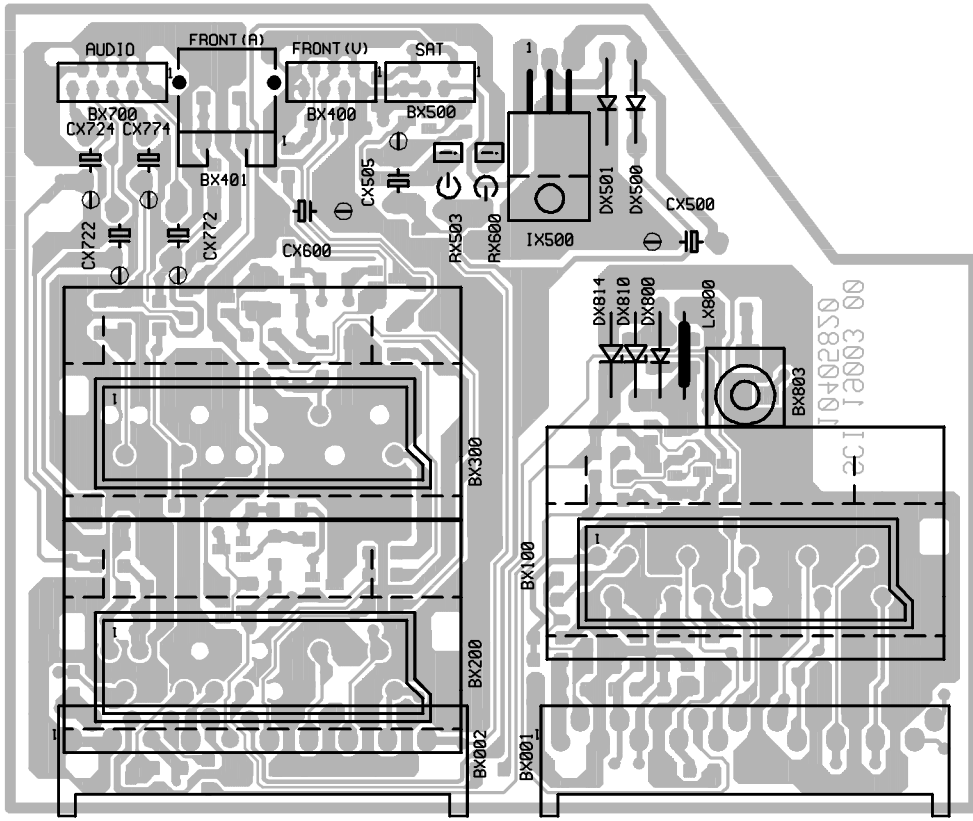


SCART INTERFACE MODULE - MODULE INTERFACE PERITELEVISION - SCART INTERFACE - MODULO PRESA PERITEL - MODULO EUROTOMA

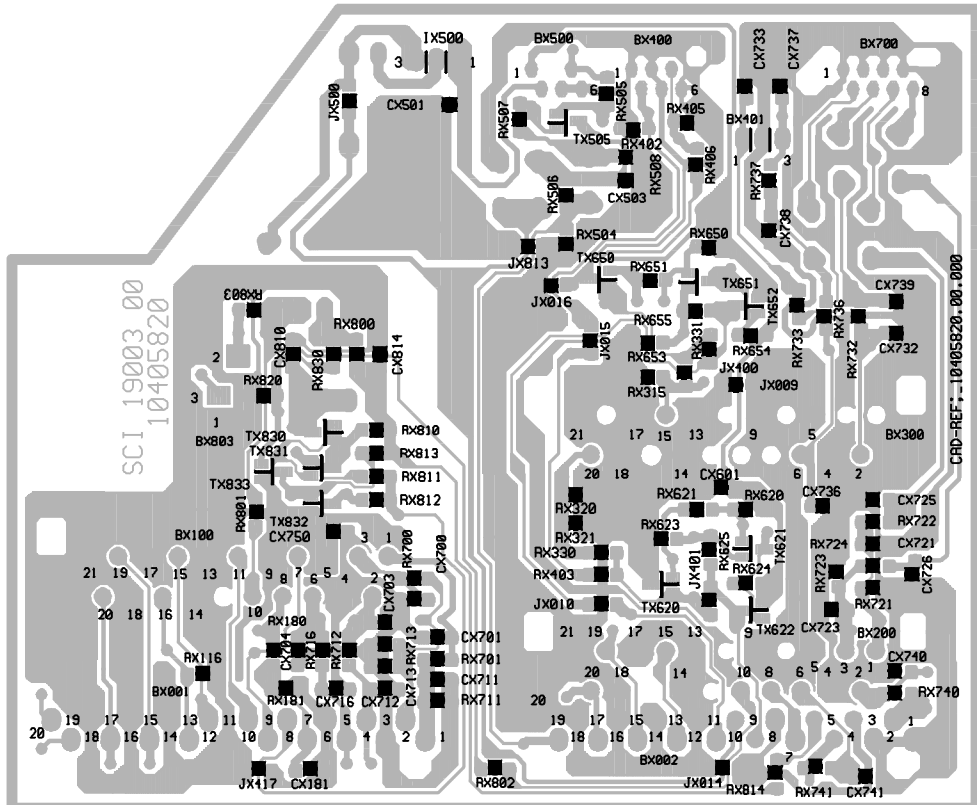


SCI 19003

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

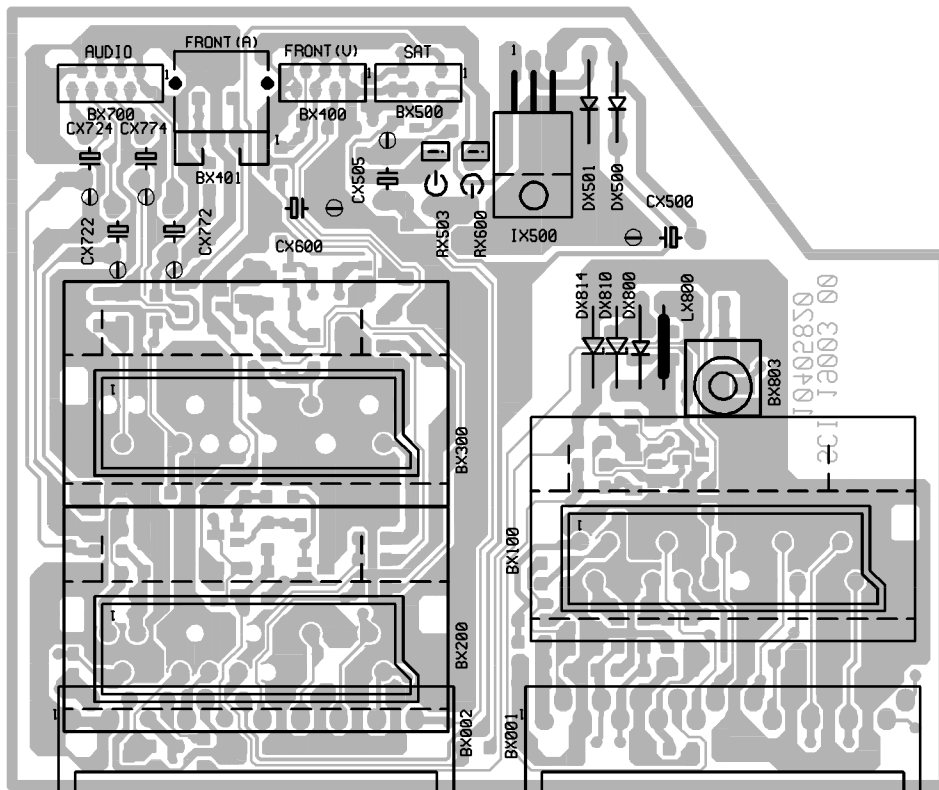


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

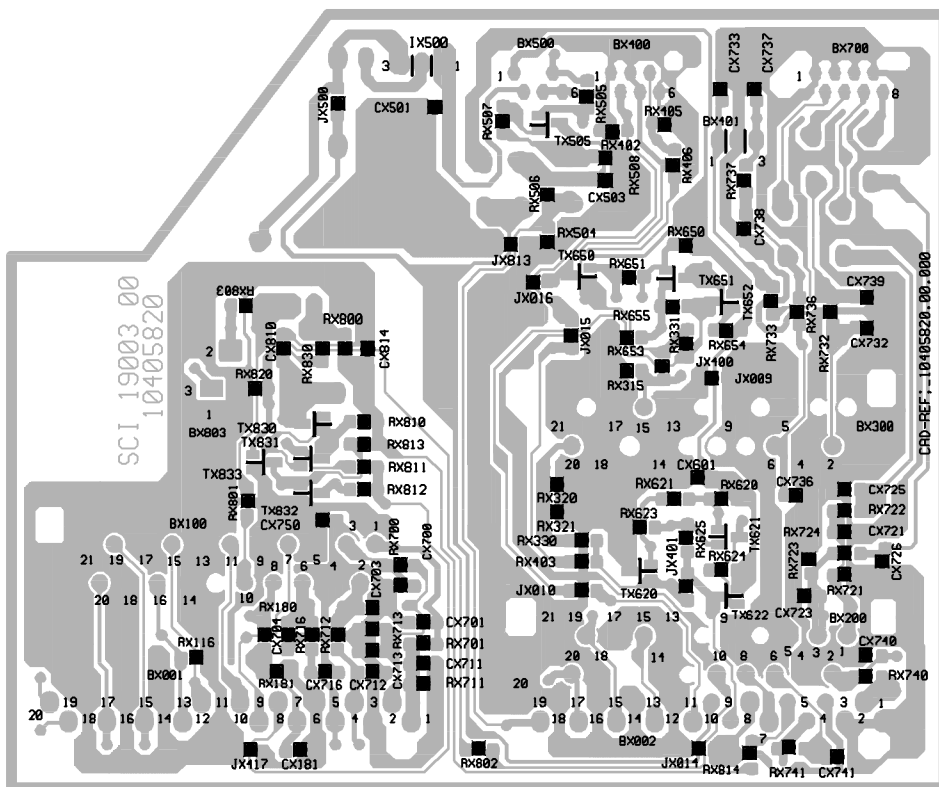


SCI 19004

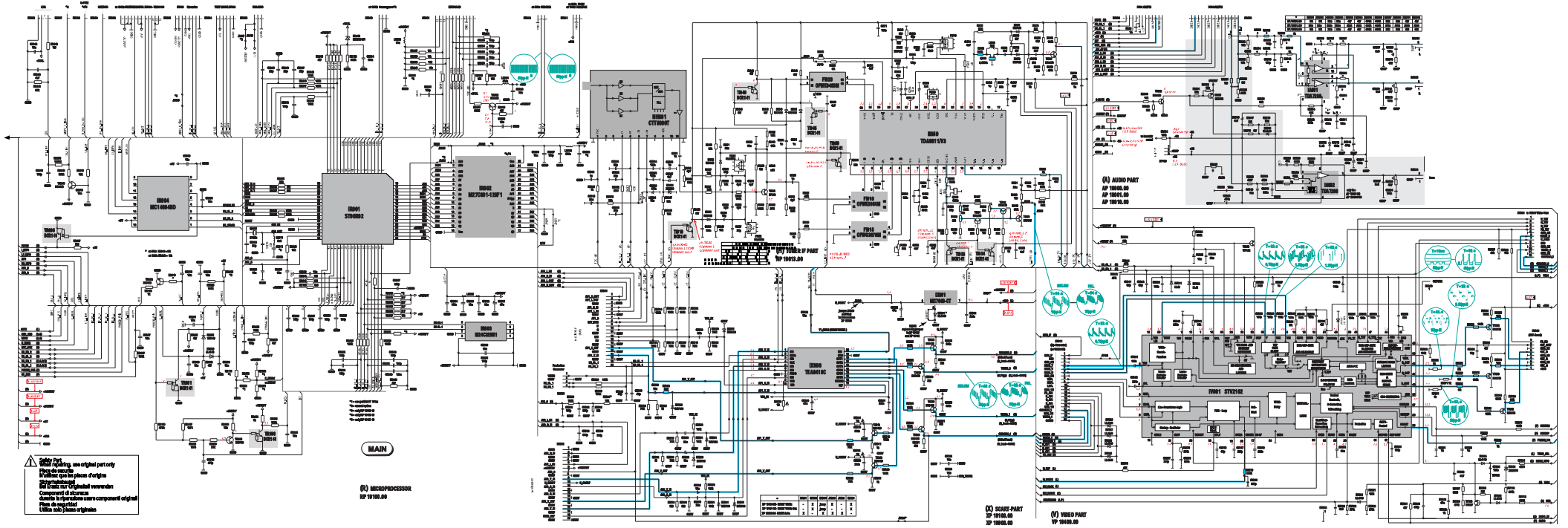
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



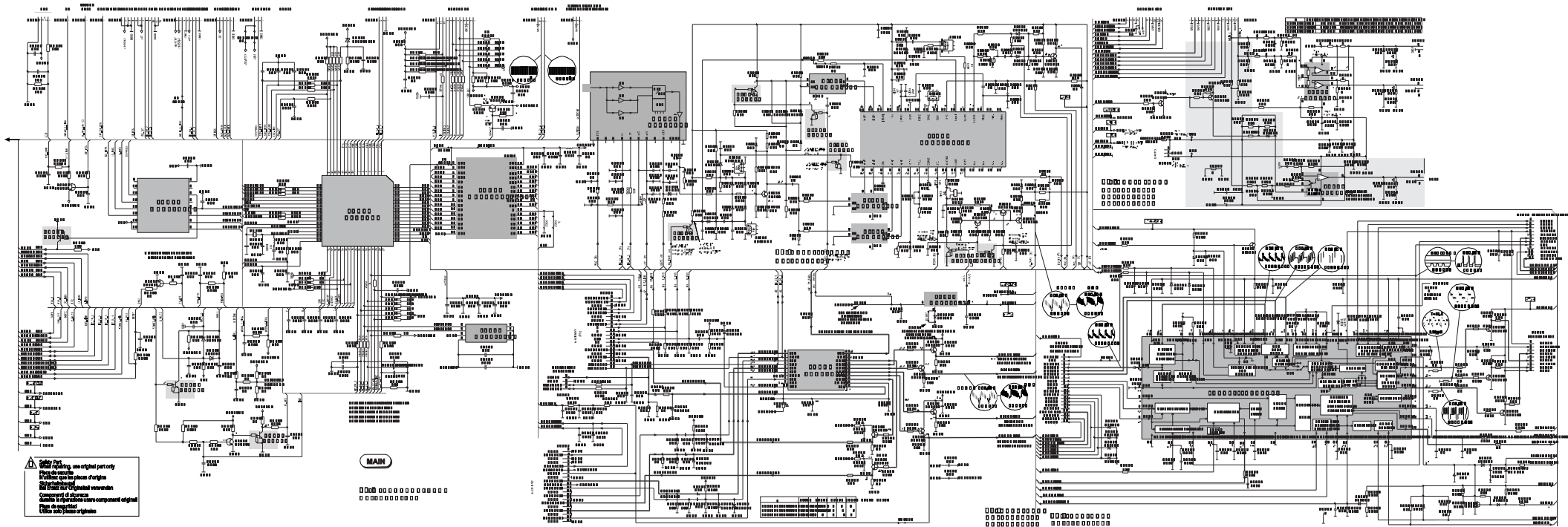
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



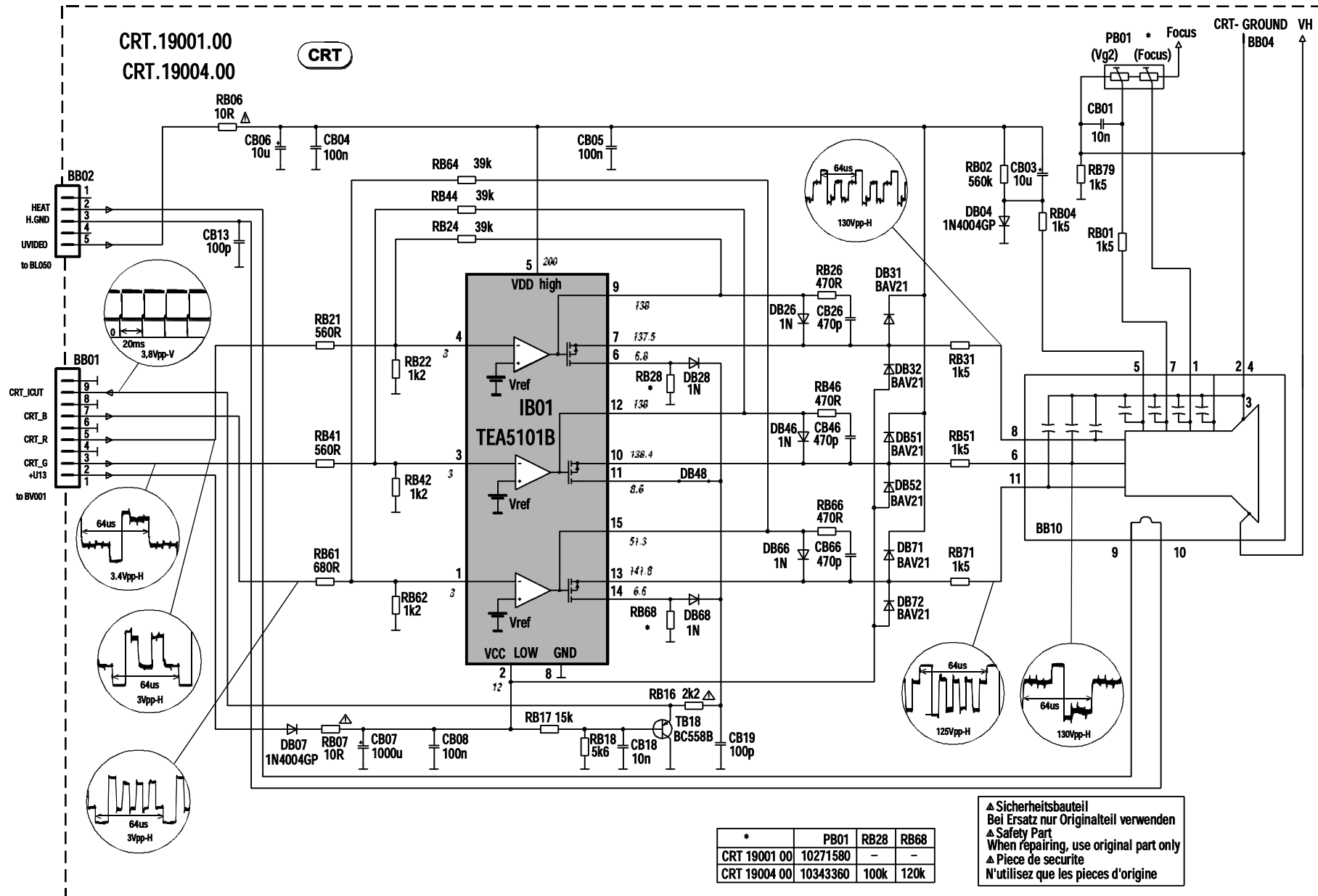
MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



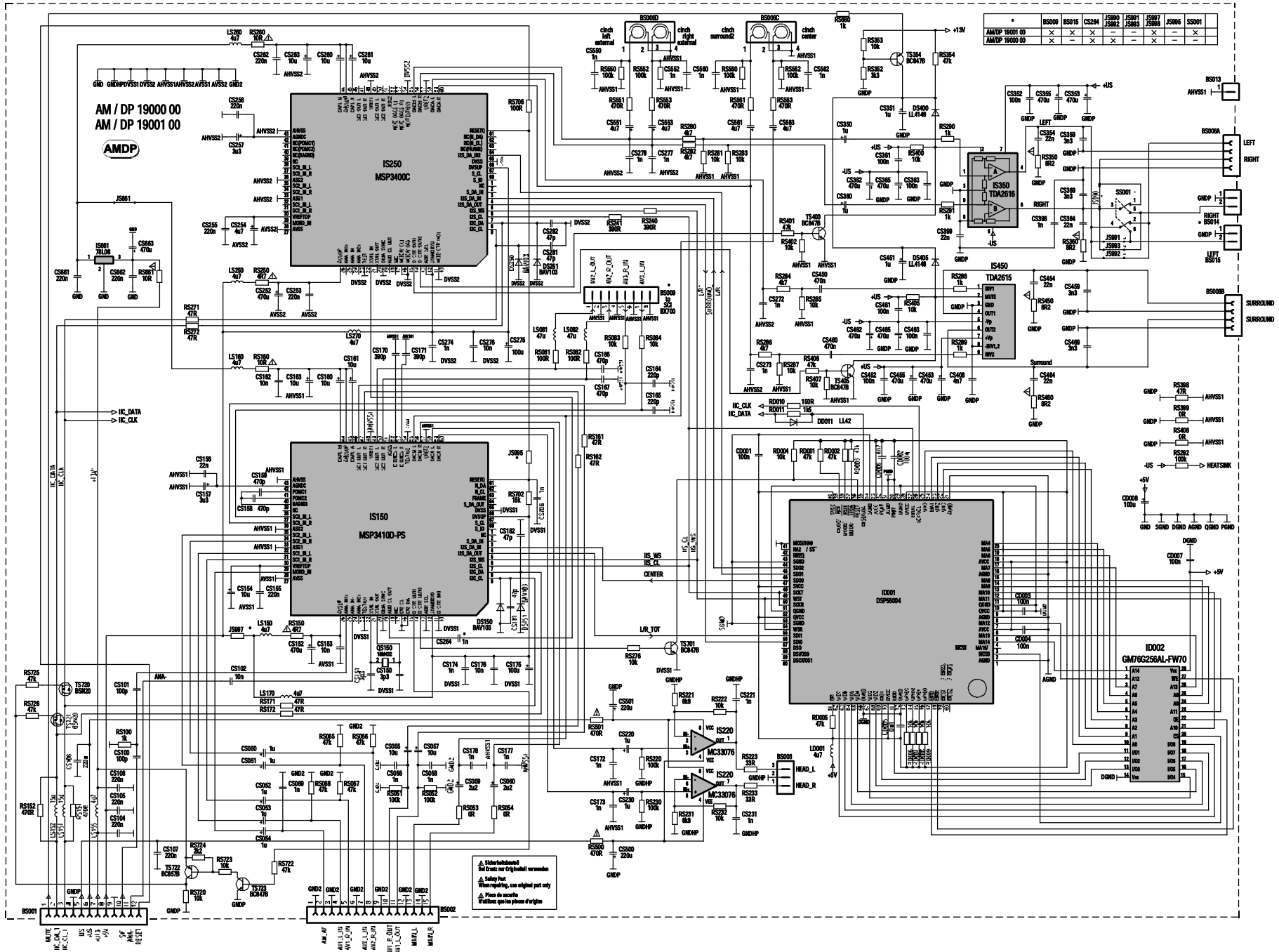
MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



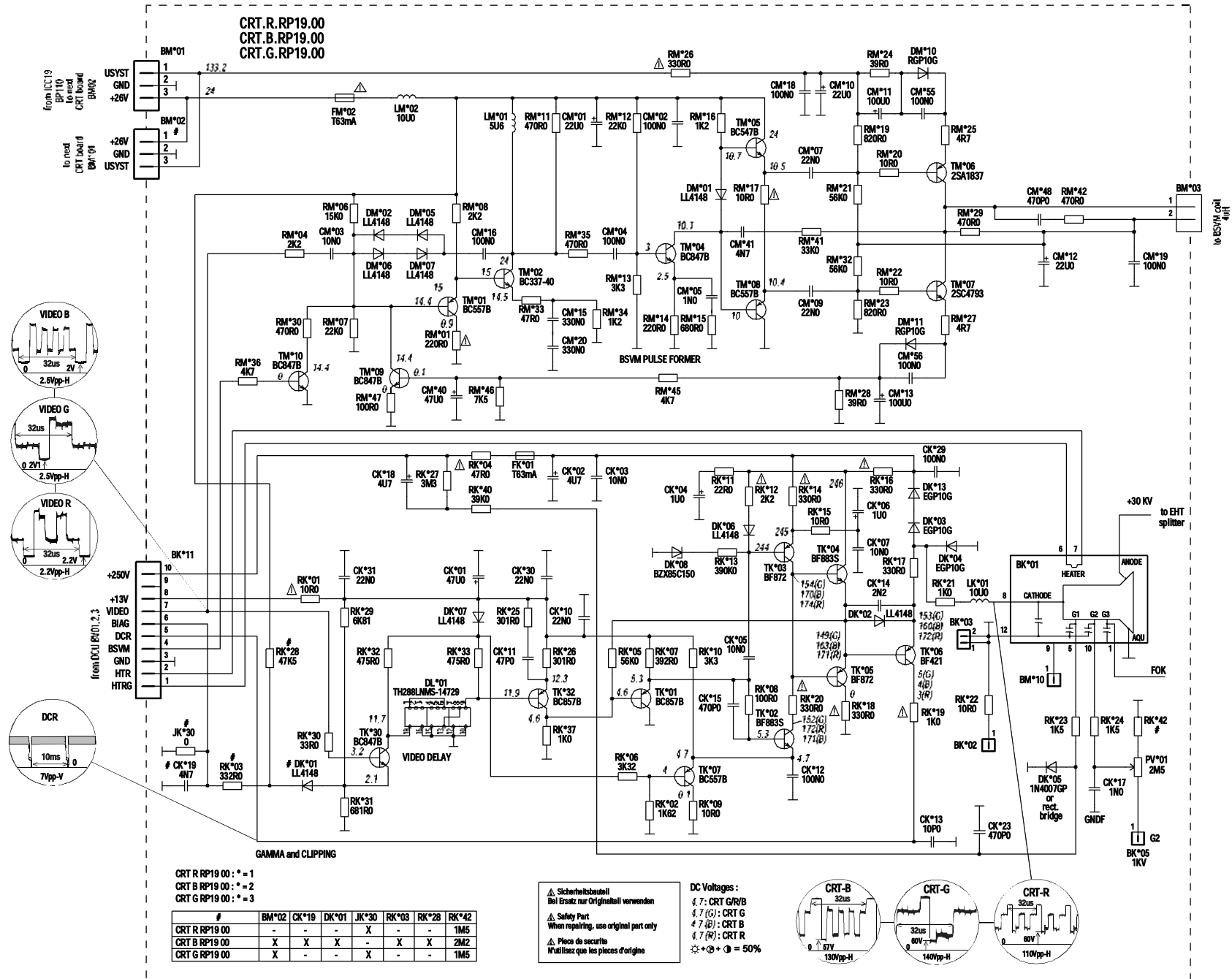
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO



AUDIO SIGNAL/DOLBY MODULE - MODULE AUDIO/DOLBY - TON SIGNAL/DOLBY BAUSTEIN - MODULO AUDIO/DOLBY - MÓDULO AUDIO/DOLBY



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



CRT R RP19 00 : * = 1
 CRT B RP19 00 : * = 2
 CRT G RP19 00 : * = 3

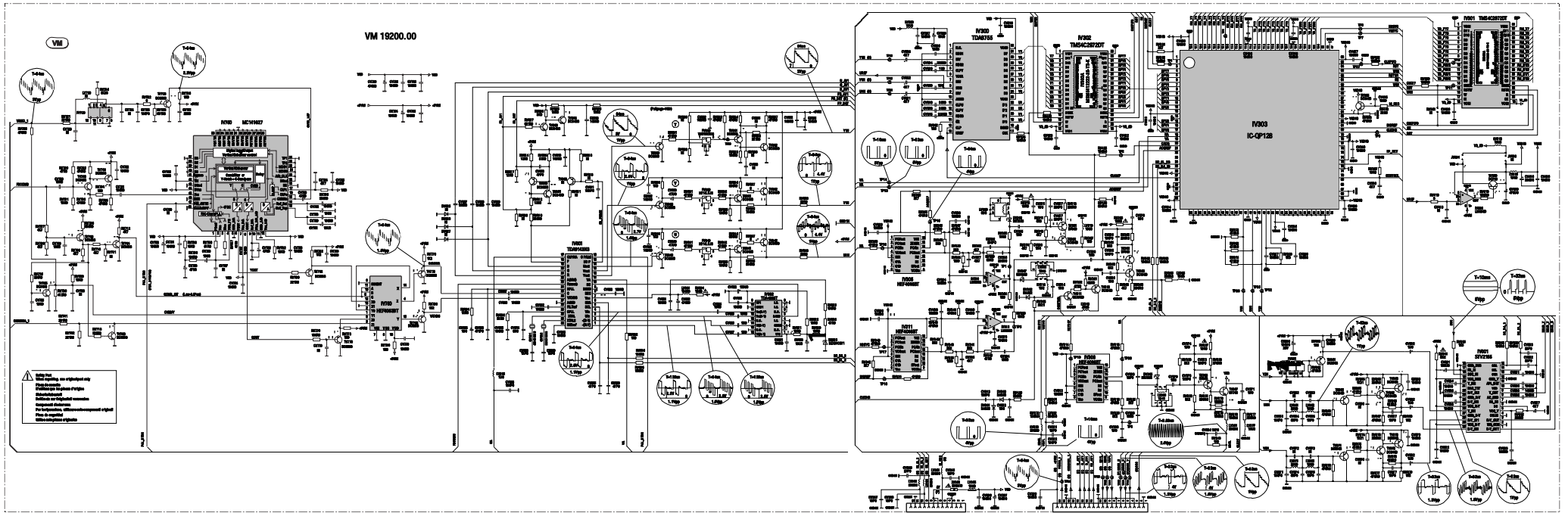
#	BM*02	CK*19	DK*01	JK*30	RK*03	RK*28	RK*42
CRT R RP19 00	-	-	-	X	-	-	1M5
CRT B RP19 00	X	X	X	-	X	X	2M2
CRT G RP19 00	X	-	-	X	-	-	1M5

Sicherheitsbauteil
 Bei Ersatz nur Originalteil verwenden

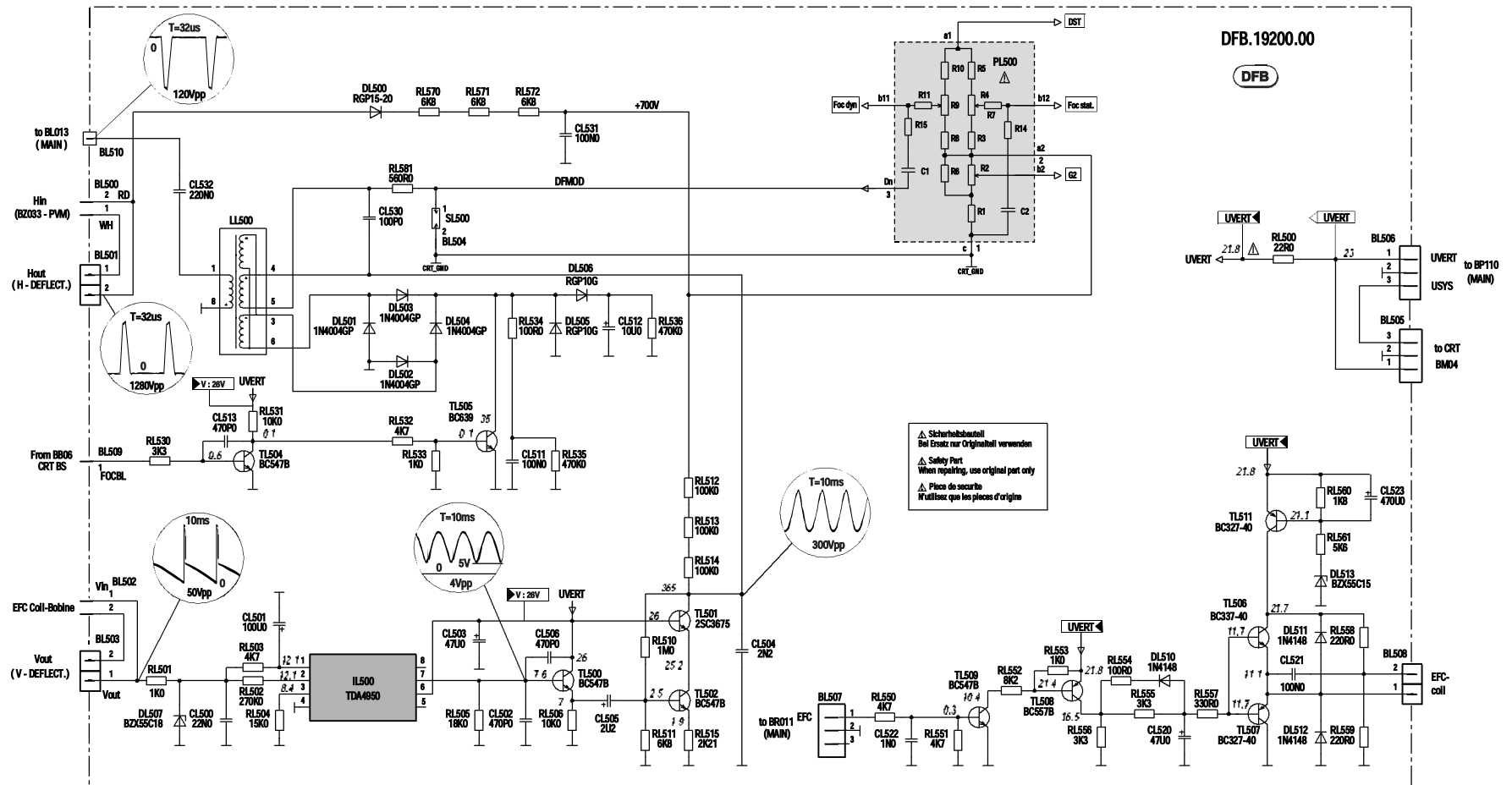
Safety Part
 When replacing, use original part only

Pièce de sécurité
 N'utilisez que les pièces d'origine

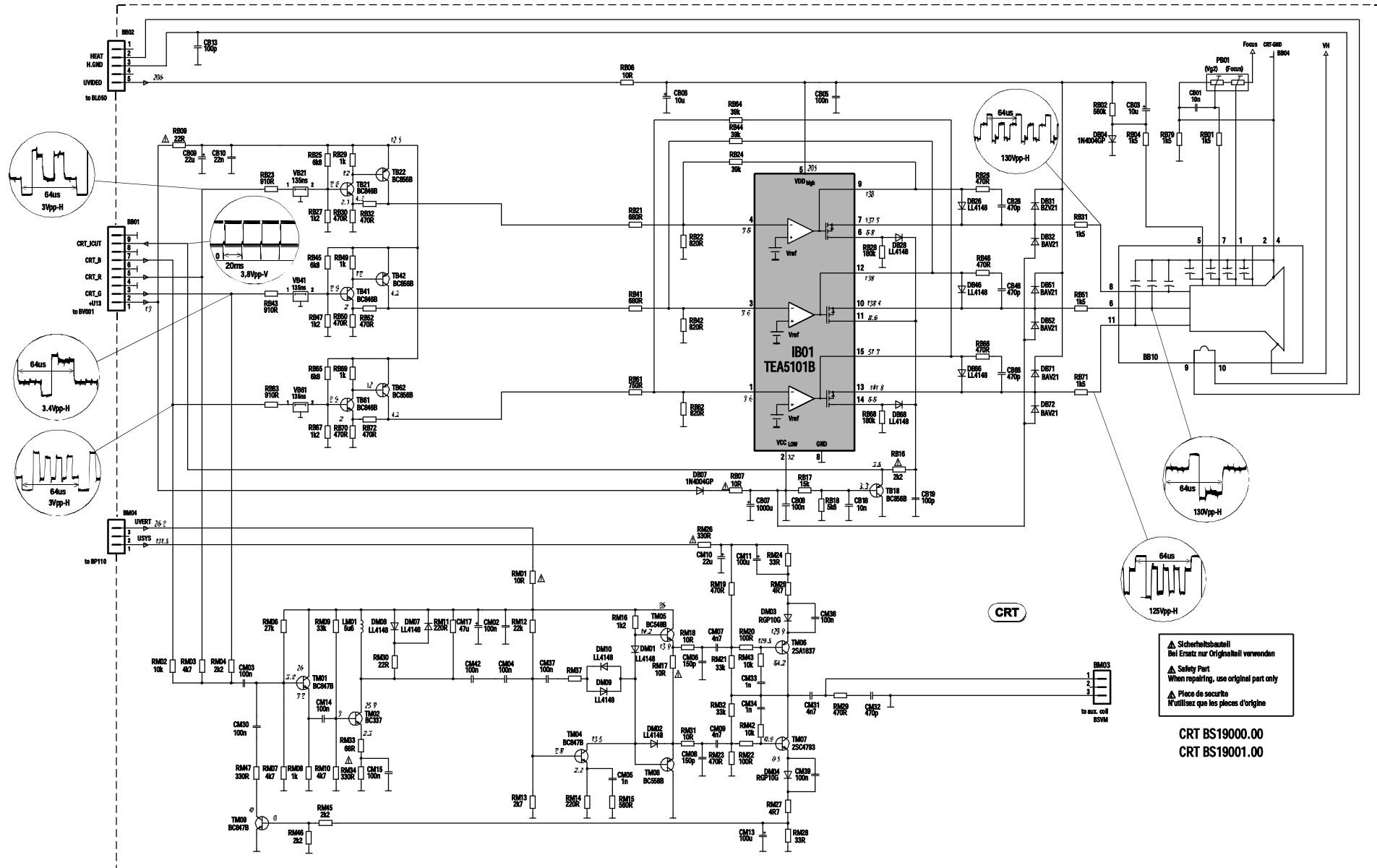
VIDEO MODULE - MODULE VIDEO - VIDEO BAUSTEIN - MODULO VIDEO - MÓDULO VIDEO



DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO



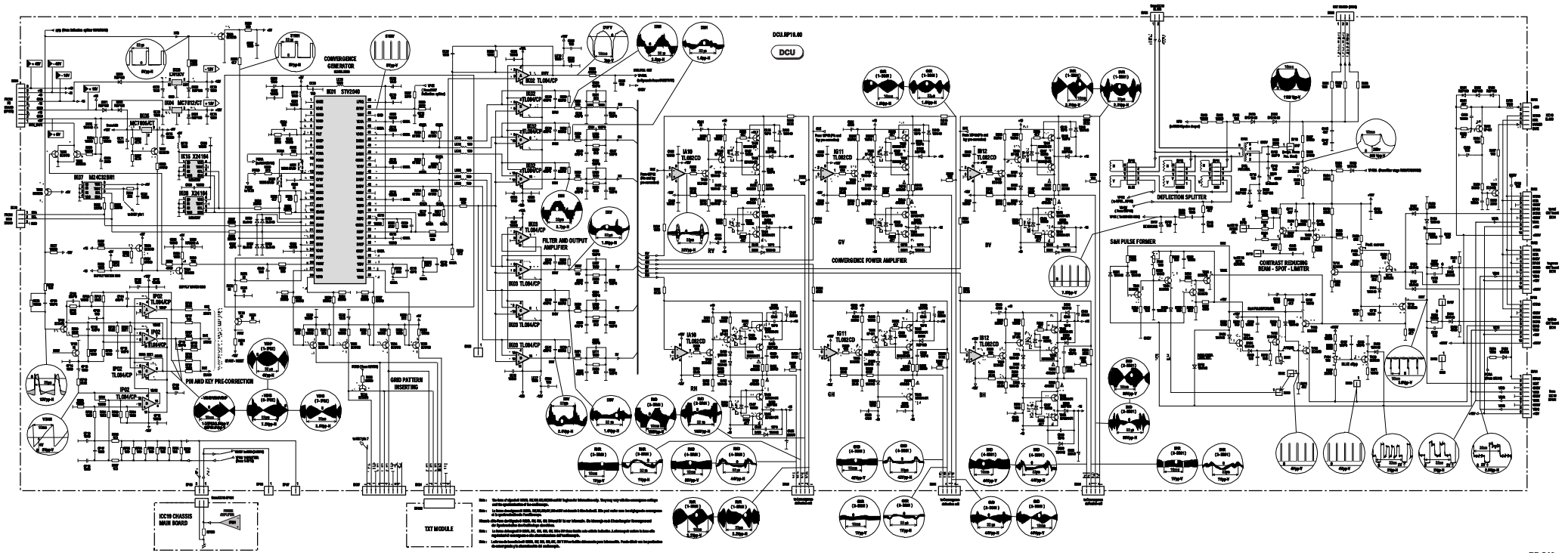
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO



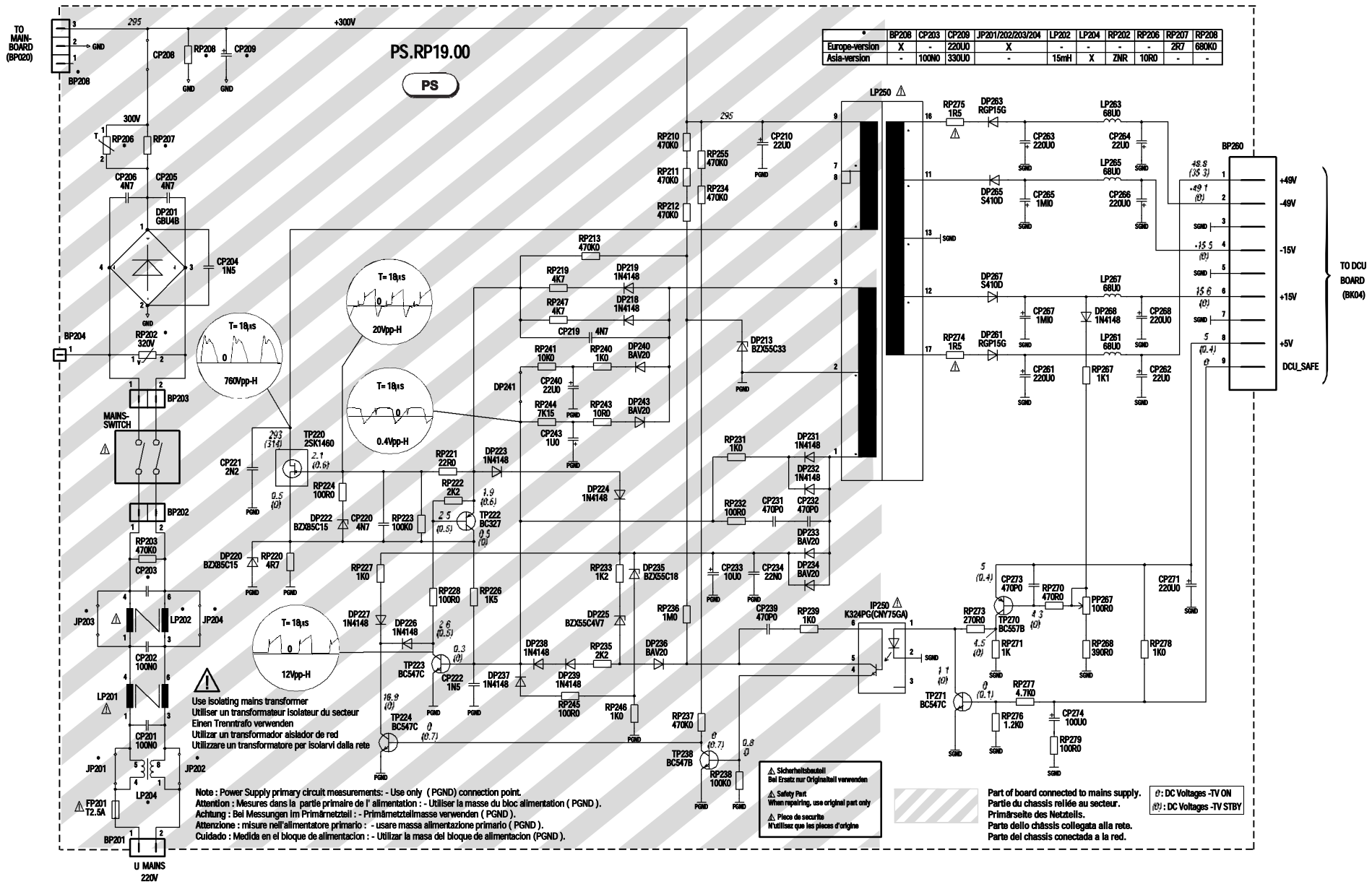
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Safety Part
When repairing, use original part only
⚠ Pièce de sécurité
N'utilisez que les pièces d'origine

CRT BS19000.00
CRT BS19001.00

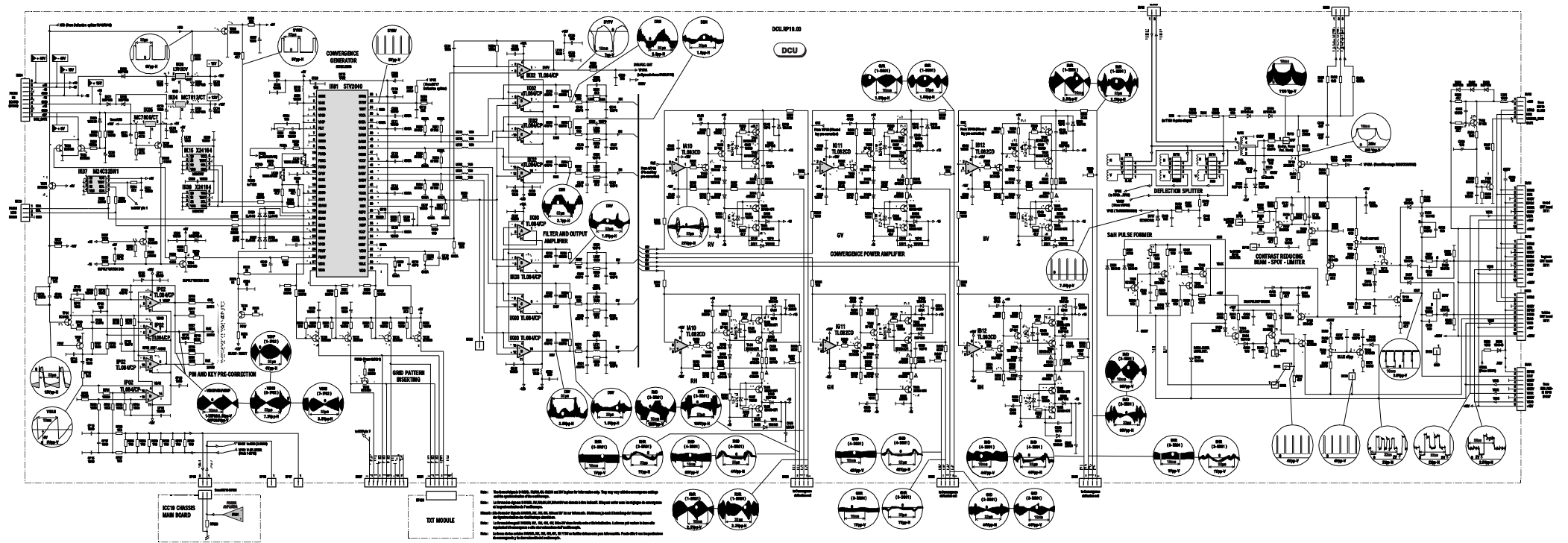
DIGITAL CONVERGENCE UNIT - PLATINE DE CONVERGENCES NUMERIQUES - DIGITALE KONVERGENZ EINHEIT - UNITÀ DI CONVERGENZA DIGITALE - UNIDAD DE CONVERGENCIA DIGITAL



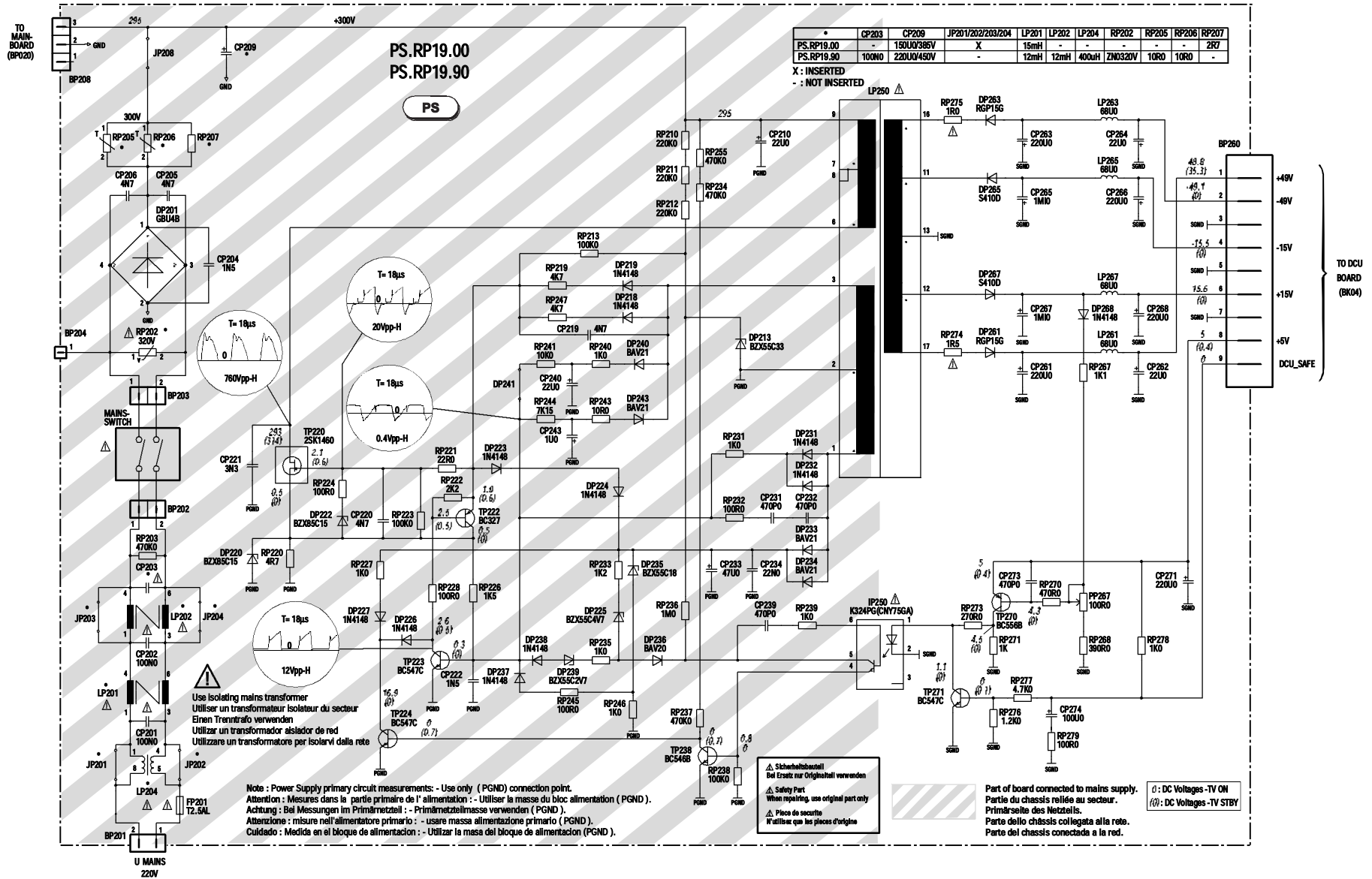
DIGITAL CONVERGENCE UNIT POWER SUPPLY - ALIMENTATION PLATINE DE CONVERGENCES NUMERIQUES - DIGITAL CONVERGENCE UNIT NETZTEIL - ALIMENTAZIONE CONVERGENZA DIGITALE - ALIMENTACIÓN DE LA UNIDAD DE CONVERGENCIA DIGITAL



DIGITAL CONVERGENCE UNIT - PLATINE DE CONVERGENCES NUMERIQUES - DIGITALE KONVERGENZ EINHEIT - UNITÀ DI CONVERGENZA DIGITALE - UNIDAD DE CONVERGENCIA DIGITAL



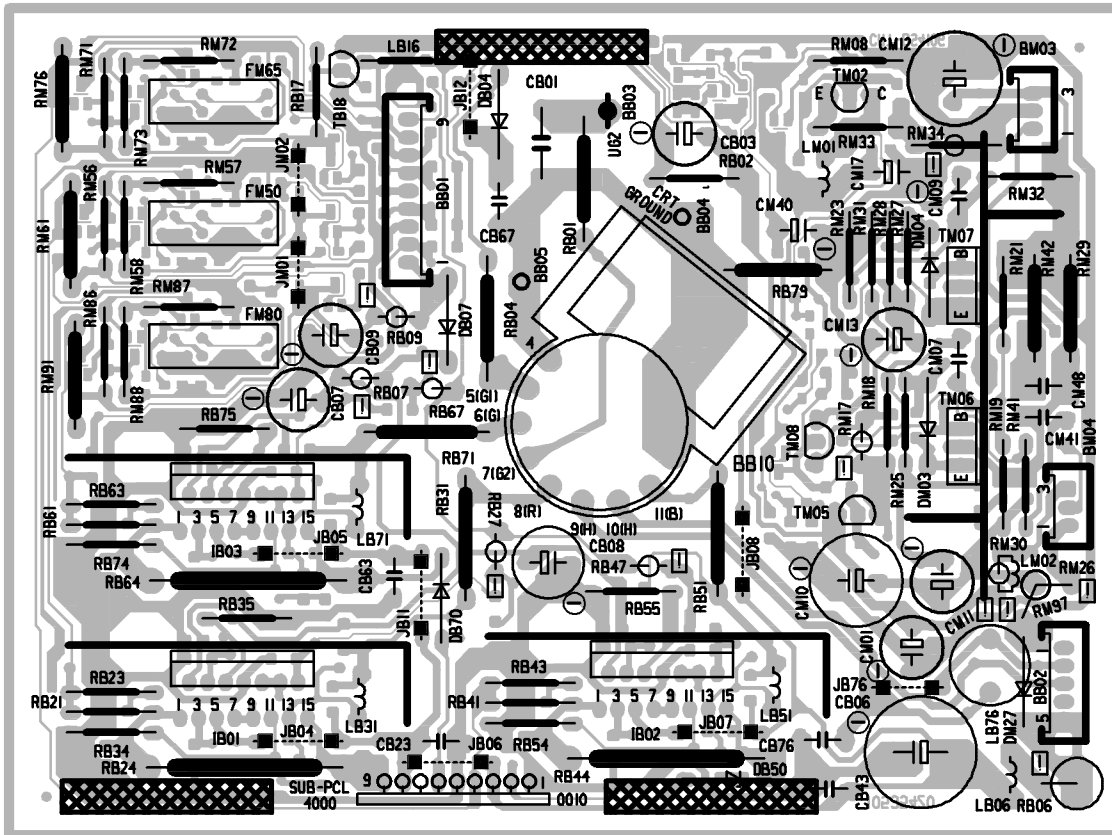
DIGITAL CONVERGENCE UNIT POWER SUPPLY - ALIMENTATION PLATINE DE CONVERGENCES NUMERIQUES - DIGITAL CONVERGENCE UNIT NETZTEIL - ALIMENTAZIONE CONVERGENZA DIGITALE - ALIMENTACIÓN DE LA UNIDAD DE CONVERGENCIA DIGITAL



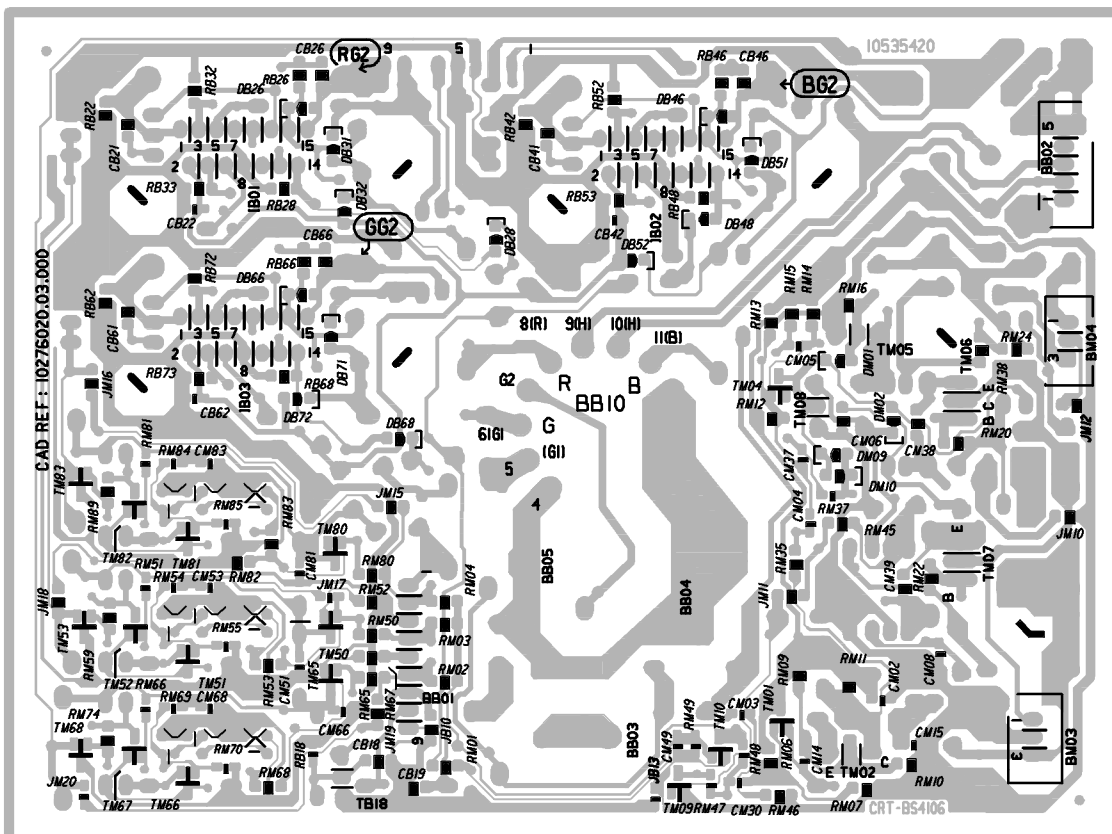
**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE -
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO**

CRT BS19100

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

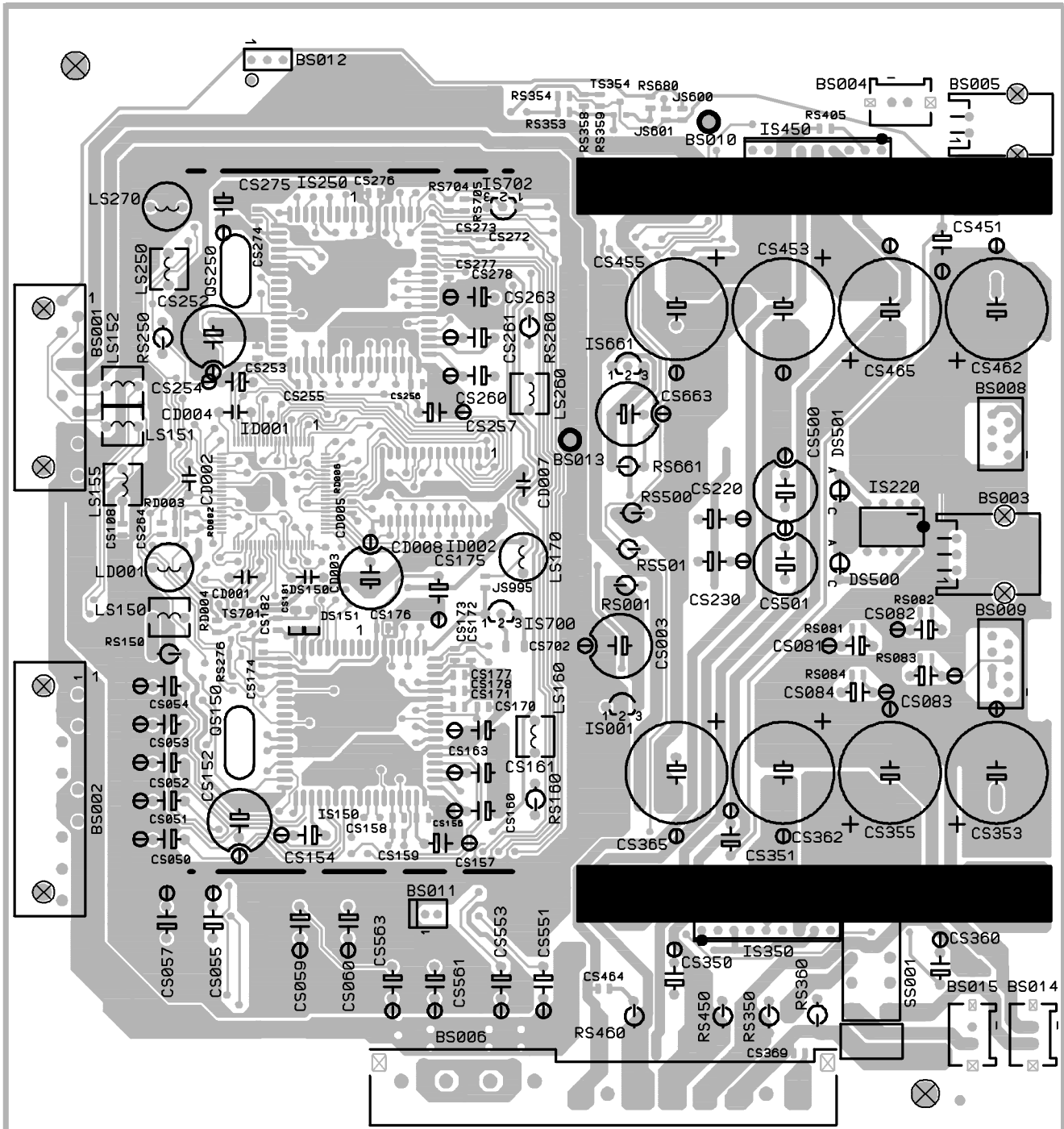


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



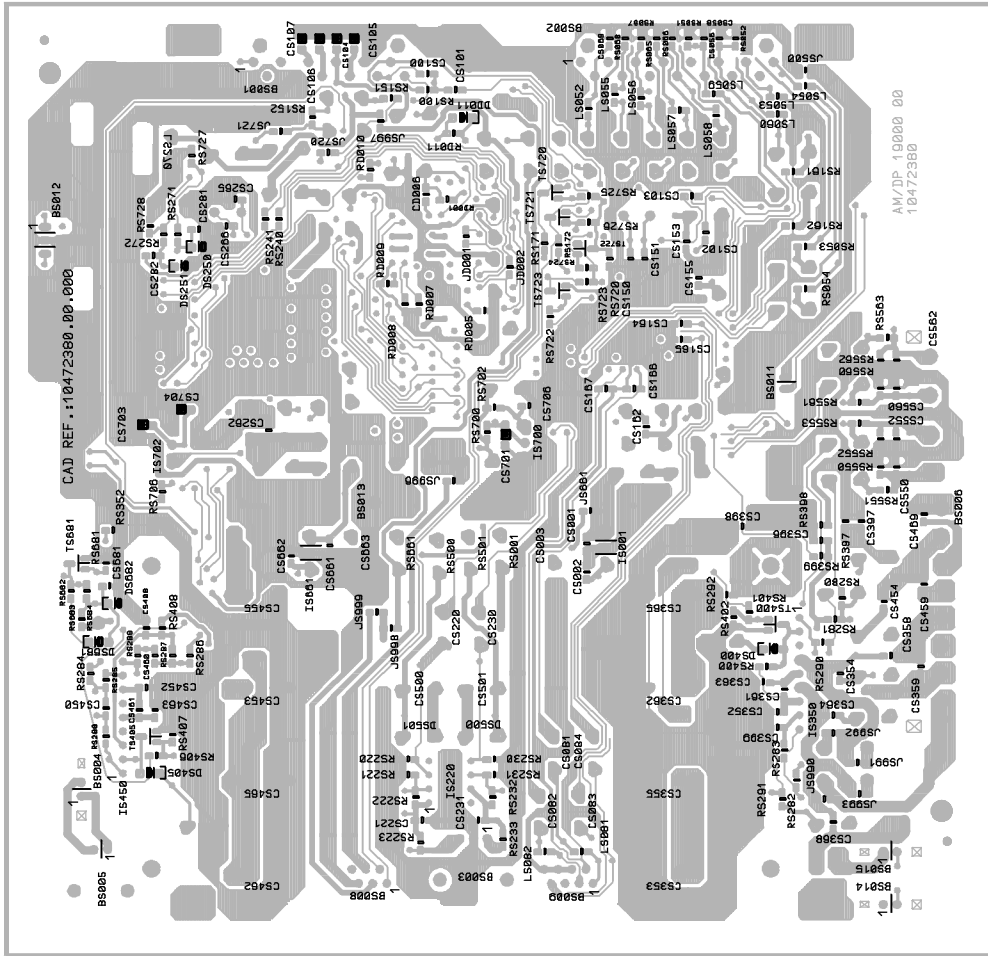
**AUDIO SIGNAL/DOLBY MODULE - MODULE AUDIO/DOLBY - TON SIGNAL/DOLBY
BAUSTEIN - MODULO AUDIO/DOLBY - MÓDULO AUDIO/DOLBY**

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

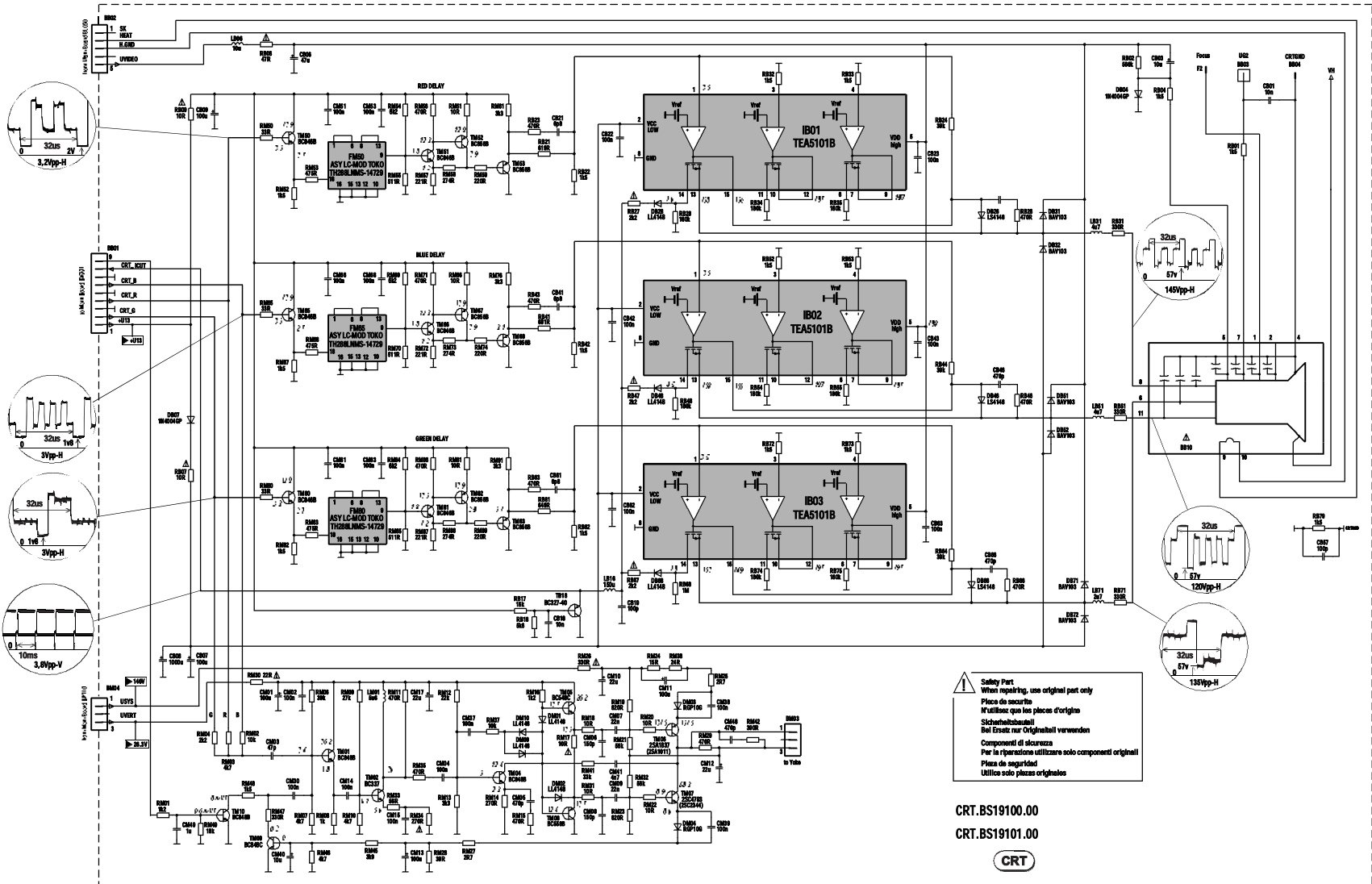


**AUDIO SIGNAL/DOLBY MODULE - MODULE AUDIO/DOLBY - TON SIGNAL/DOLBY
BAUSTEIN - MODULO AUDIO/DOLBY - MÓDULO AUDIO/DOLBY**

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



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
 CRTBS19100 - CRTBS19101



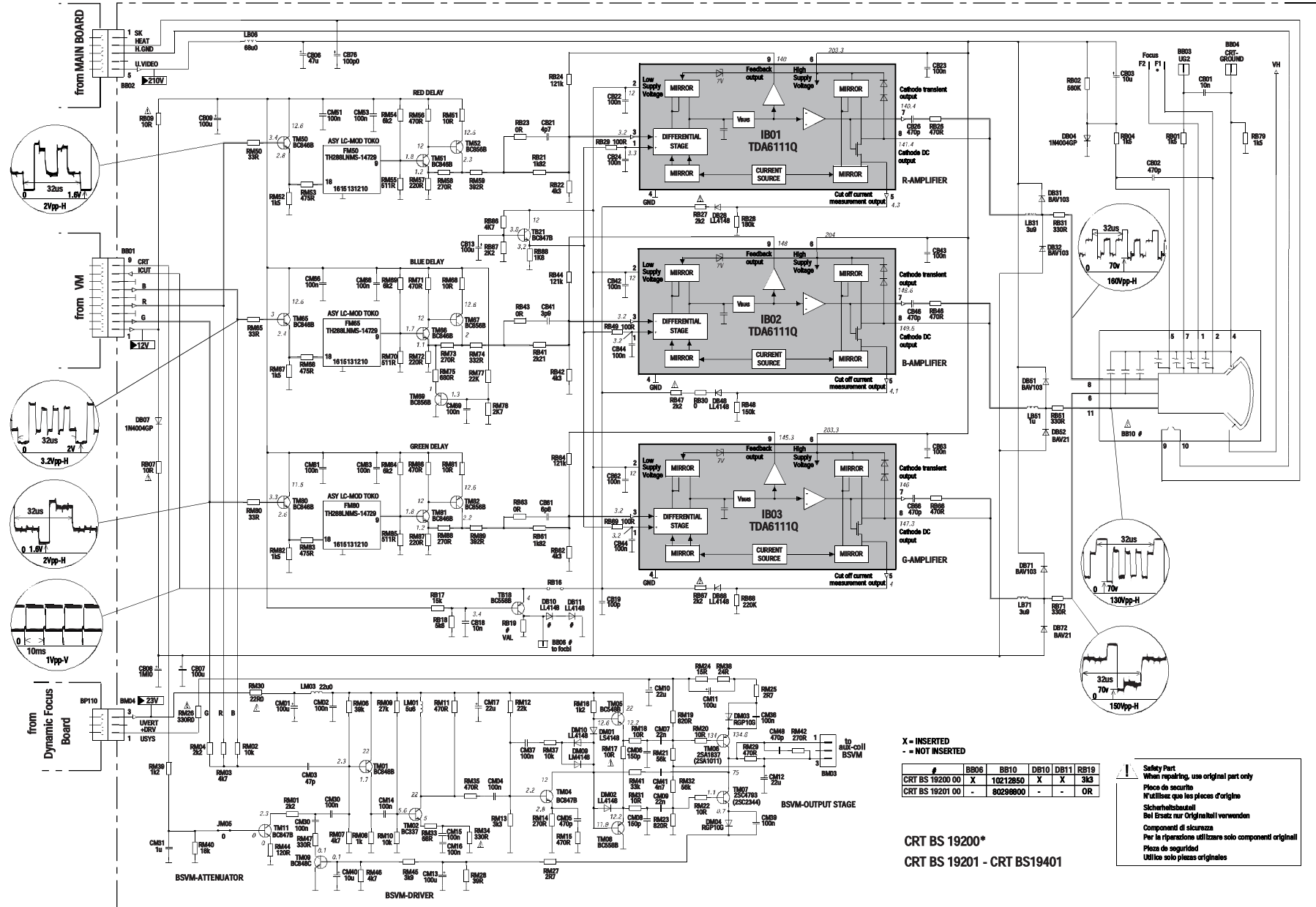
Safety Part
 When repairing, use original part only
 Pièces de sécurité
 N'utilisez que les pièces d'origine
 Sicherheitsbauteile
 Bei Ersatz nur Originalteile verwenden
 Componenti di sicurezza
 Per le riparazioni utilizzare solo componenti originali
 Piezas de seguridad
 Utilice solo piezas originales

CRT.BS19100.00

CRT.BS19101.00



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
CRTB5 19200 - CRTBS 19201 - CRTBS 19401



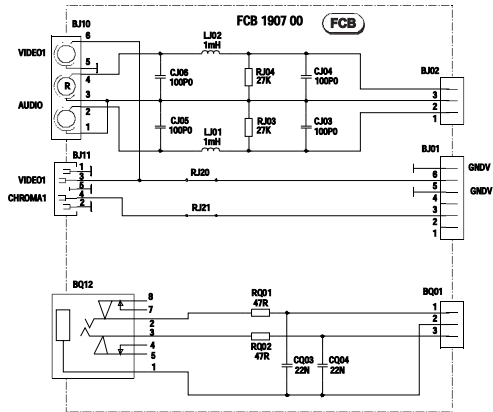
X = INSERTED
 - = NOT INSERTED

#	BB06	BB10	DB10	DB11	RB19
CRT BS 19200 00	X	10212850	X	X	3k3
CRT BS 19201 00	-	80298800	-	-	OR

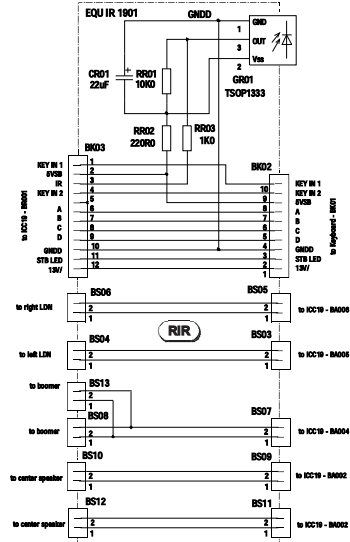
CRT BS 19200*
 CRT BS 19201 - CRT BS19401

Safety Part
 When repairing, use original part only
 Pièces de sécurité
 Utilisez que les pièces d'origine
 Sicherheitsbestandteil
 Bei Ersatz nur Originalteile verwenden
 Componenti di sicurezza
 Per la riparazione utilizzare solo componenti originali
 Piezas de seguridad
 Utilice solo piezas originales

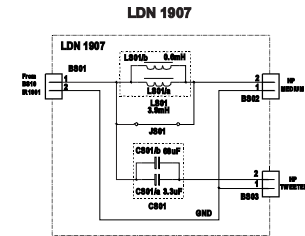
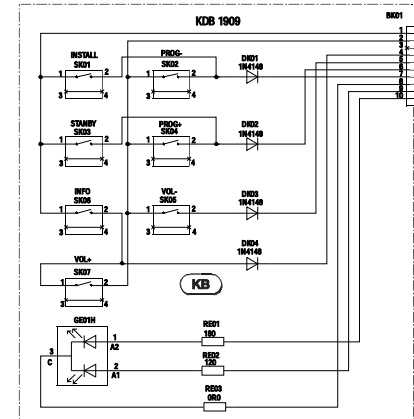
FRONT CONNECTOR BOARD - PRISES EN FAÇADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL



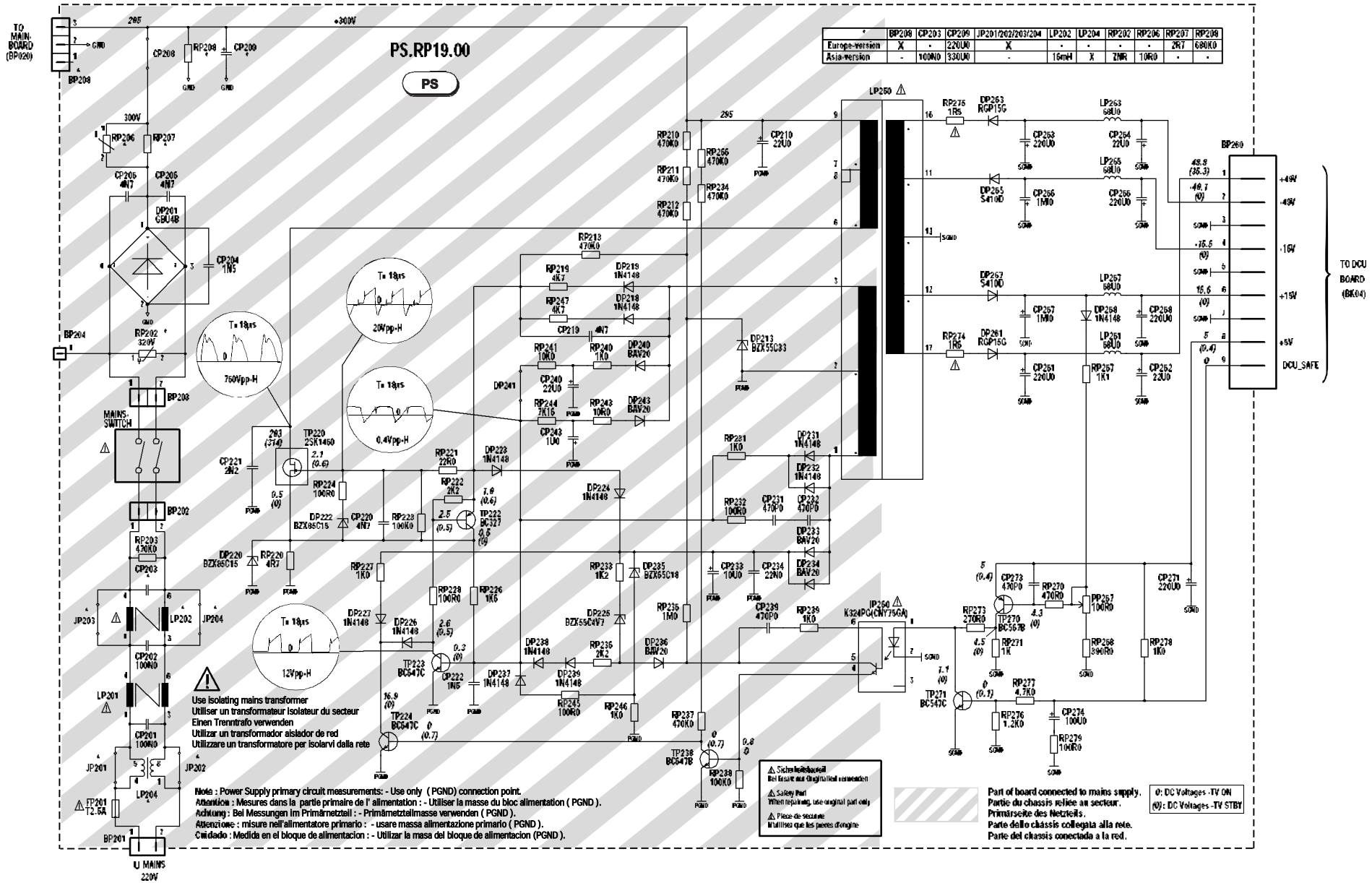
IR RECEIVER P.C.B. - PLATINE RECEPTEUR INFRA-ROUGE - IR EMPFÄNGER LTPL. PIASTRA RICEVITORE IR - PLATINA RECEPTOR IR



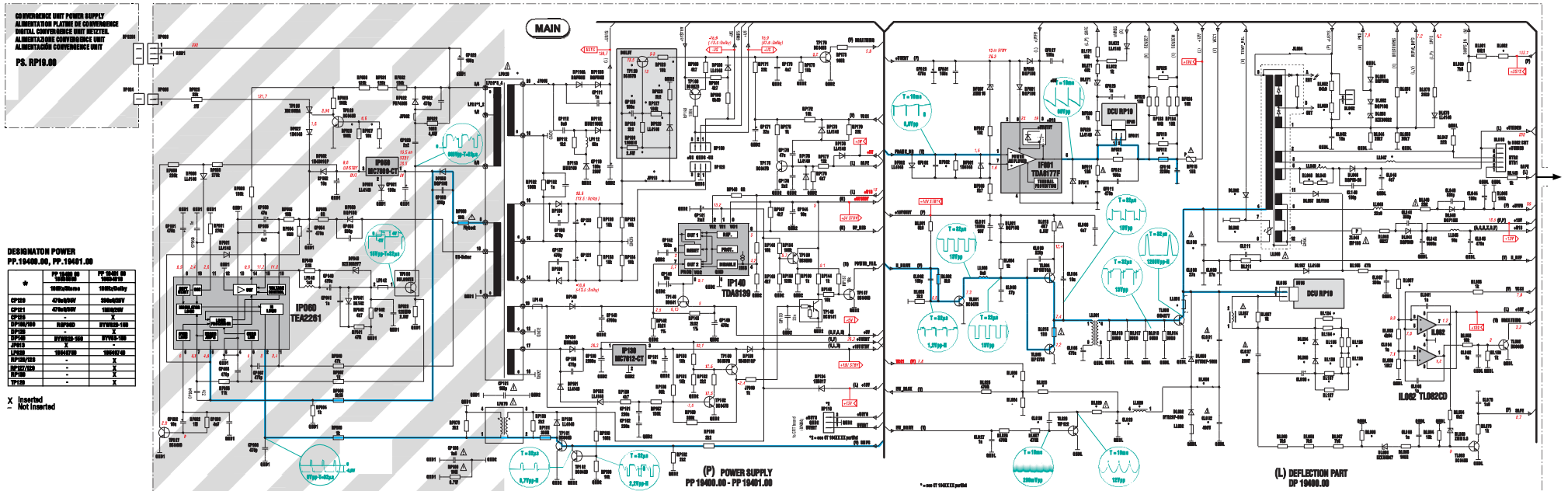
KEYBOARD MODULE - PLATINE CLAVIER - TASTATURPLATTE - PIASTRA COMANDI - PLATINA TECLADO



DIGITAL CONVERGENCE UNIT POWER SUPPLY - ALIMENTATION PLATINE DE CONVERGENCES NUMERIQUES - DIGITAL CONVERGENCE UNIT NETZTEIL - ALIMENTAZIONE CONVERGENZA DIGITALE - ALIMENTACIÓN DE LA UNIDAD DE CONVERGENCIA DIGITAL



MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



DESIGNATOR POWER
PP.19400.00, PP.19401.00

★	PP.19400.00	PP.19401.00
CP220	✓	✓
CP221	✓	✓
CP222	✓	✓
CP223	✓	✓
CP224	✓	✓
CP225	✓	✓
CP226	✓	✓
CP227	✓	✓
CP228	✓	✓
CP229	✓	✓
CP230	✓	✓
CP231	✓	✓
CP232	✓	✓
CP233	✓	✓
CP234	✓	✓
CP235	✓	✓
CP236	✓	✓
CP237	✓	✓
CP238	✓	✓
CP239	✓	✓
CP240	✓	✓
CP241	✓	✓
CP242	✓	✓
CP243	✓	✓
CP244	✓	✓
CP245	✓	✓
CP246	✓	✓
CP247	✓	✓
CP248	✓	✓
CP249	✓	✓
CP250	✓	✓
CP251	✓	✓
CP252	✓	✓
CP253	✓	✓
CP254	✓	✓
CP255	✓	✓
CP256	✓	✓
CP257	✓	✓
CP258	✓	✓
CP259	✓	✓
CP260	✓	✓
CP261	✓	✓
CP262	✓	✓
CP263	✓	✓
CP264	✓	✓
CP265	✓	✓
CP266	✓	✓
CP267	✓	✓
CP268	✓	✓
CP269	✓	✓
CP270	✓	✓
CP271	✓	✓
CP272	✓	✓
CP273	✓	✓
CP274	✓	✓
CP275	✓	✓
CP276	✓	✓
CP277	✓	✓
CP278	✓	✓
CP279	✓	✓
CP280	✓	✓
CP281	✓	✓
CP282	✓	✓
CP283	✓	✓
CP284	✓	✓
CP285	✓	✓
CP286	✓	✓
CP287	✓	✓
CP288	✓	✓
CP289	✓	✓
CP290	✓	✓
CP291	✓	✓
CP292	✓	✓
CP293	✓	✓
CP294	✓	✓
CP295	✓	✓
CP296	✓	✓
CP297	✓	✓
CP298	✓	✓
CP299	✓	✓
CP300	✓	✓

X Inserted
- Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primária des Nichteile.
Parte dello chassis collegata alla rete.
Parte do chassis conectada à rede.

Use isolating mains transformer
Utiliser un transformateur isolateur du secteur
Einen Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarsi dalla rete

Note :
Power Supply primary circuit measurements.
- Use only (GND1) connection point.

Attention :
Mesure dans la partie primaire de l'alimentation
- Utiliser la masse du bloc alimentation (GND1).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (GND1).

Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (GND1).

Caution :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Safety Part
When repairing, use original part only
Placa de segurança
N'utilisez que les pièces d'origine
Sicherheitsteil
Bei Ersatz nur Originalteile verwenden
Component of sicurezza
durante la riparazione usare component original
Placa de seguridad
Utilice solo piezas originales

Deflection - Reels Partille

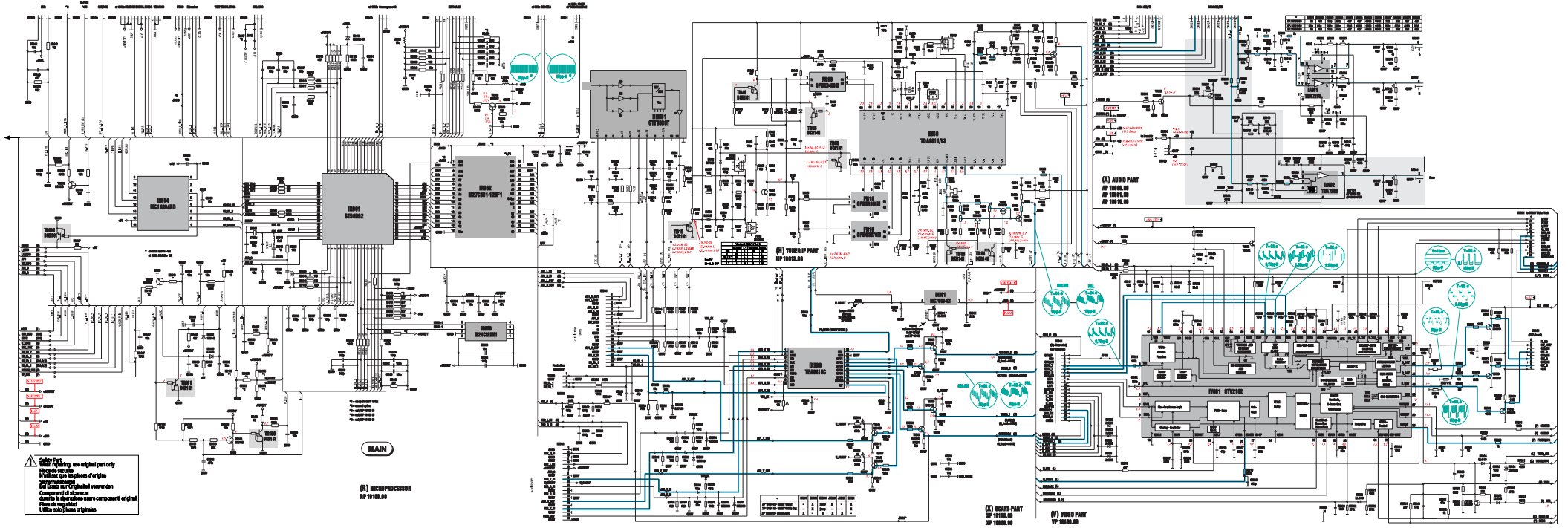
★	CT 19400.00	CT 19401.00
DL000	✓	✓
DL001	✓	✓
DL002	✓	✓
DL003	✓	✓
DL004	✓	✓
DL005	✓	✓
DL006	✓	✓
DL007	✓	✓
DL008	✓	✓
DL009	✓	✓
DL010	✓	✓
DL011	✓	✓
DL012	✓	✓
DL013	✓	✓
DL014	✓	✓
DL015	✓	✓
DL016	✓	✓
DL017	✓	✓
DL018	✓	✓
DL019	✓	✓
DL020	✓	✓
DL021	✓	✓
DL022	✓	✓
DL023	✓	✓
DL024	✓	✓
DL025	✓	✓
DL026	✓	✓
DL027	✓	✓
DL028	✓	✓
DL029	✓	✓
DL030	✓	✓
DL031	✓	✓
DL032	✓	✓
DL033	✓	✓
DL034	✓	✓
DL035	✓	✓
DL036	✓	✓
DL037	✓	✓
DL038	✓	✓
DL039	✓	✓
DL040	✓	✓
DL041	✓	✓
DL042	✓	✓
DL043	✓	✓
DL044	✓	✓
DL045	✓	✓
DL046	✓	✓
DL047	✓	✓
DL048	✓	✓
DL049	✓	✓
DL050	✓	✓
DL051	✓	✓
DL052	✓	✓
DL053	✓	✓
DL054	✓	✓
DL055	✓	✓
DL056	✓	✓
DL057	✓	✓
DL058	✓	✓
DL059	✓	✓
DL060	✓	✓
DL061	✓	✓
DL062	✓	✓
DL063	✓	✓
DL064	✓	✓
DL065	✓	✓
DL066	✓	✓
DL067	✓	✓
DL068	✓	✓
DL069	✓	✓
DL070	✓	✓
DL071	✓	✓
DL072	✓	✓
DL073	✓	✓
DL074	✓	✓
DL075	✓	✓
DL076	✓	✓
DL077	✓	✓
DL078	✓	✓
DL079	✓	✓
DL080	✓	✓
DL081	✓	✓
DL082	✓	✓
DL083	✓	✓
DL084	✓	✓
DL085	✓	✓
DL086	✓	✓
DL087	✓	✓
DL088	✓	✓
DL089	✓	✓
DL090	✓	✓
DL091	✓	✓
DL092	✓	✓
DL093	✓	✓
DL094	✓	✓
DL095	✓	✓
DL096	✓	✓
DL097	✓	✓
DL098	✓	✓
DL099	✓	✓
DL100	✓	✓

Deflection - Reels Partille

★	CT 19400.00	CT 19401.00
DL101	✓	✓
DL102	✓	✓
DL103	✓	✓
DL104	✓	✓
DL105	✓	✓
DL106	✓	✓
DL107	✓	✓
DL108	✓	✓
DL109	✓	✓
DL110	✓	✓
DL111	✓	✓
DL112	✓	✓
DL113	✓	✓
DL114	✓	✓
DL115	✓	✓
DL116	✓	✓
DL117	✓	✓
DL118	✓	✓
DL119	✓	✓
DL120	✓	✓
DL121	✓	✓
DL122	✓	✓
DL123	✓	✓
DL124	✓	✓
DL125	✓	✓
DL126	✓	✓
DL127	✓	✓
DL128	✓	✓
DL129	✓	✓
DL130	✓	✓
DL131	✓	✓
DL132	✓	✓
DL133	✓	✓
DL134	✓	✓
DL135	✓	✓
DL136	✓	✓
DL137	✓	✓
DL138	✓	✓
DL139	✓	✓
DL140	✓	✓
DL141	✓	✓
DL142	✓	✓
DL143	✓	✓
DL144	✓	✓
DL145	✓	✓
DL146	✓	✓
DL147	✓	✓
DL148	✓	✓
DL149	✓	✓
DL150	✓	✓
DL151	✓	✓
DL152	✓	✓
DL153	✓	✓
DL154	✓	✓
DL155	✓	✓
DL156	✓	✓
DL157	✓	✓
DL158	✓	✓
DL159	✓	✓
DL160	✓	✓
DL161	✓	✓
DL162	✓	✓
DL163	✓	✓
DL164	✓	✓
DL165	✓	✓
DL166	✓	✓
DL167	✓	✓
DL168	✓	✓
DL169	✓	✓
DL170	✓	✓
DL171	✓	✓
DL172	✓	✓
DL173	✓	✓
DL174	✓	✓
DL175	✓	✓
DL176	✓	✓
DL177	✓	✓
DL178	✓	✓
DL179	✓	✓
DL180	✓	✓
DL181	✓	✓
DL182	✓	✓
DL183	✓	✓
DL184	✓	✓
DL185	✓	✓
DL186	✓	✓
DL187	✓	✓
DL188	✓	✓
DL189	✓	✓
DL190	✓	✓
DL191	✓	✓
DL192	✓	✓
DL193	✓	✓
DL194	✓	✓
DL195	✓	✓
DL196	✓	✓
DL197	✓	✓
DL198	✓	✓
DL199	✓	✓
DL200	✓	✓

Note : the last two numbers of the CT xxxxx part list name indicates the system voltage.
e.g. CT 19400 34 Ulys 134V →
Note : Los dos últimos números de la denominación CT xxxxx, indica la tensión Ulys
e.g. CT 19400 34 Ulys 134V →

MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



⚠ Safety Note
 Only using original parts only
 Plăci de rezervă
 Ersatzteile
 Componenti de schimb
 Ersatzteile
 Placa de reparat
 Ersatzteile
 Utile with your engine

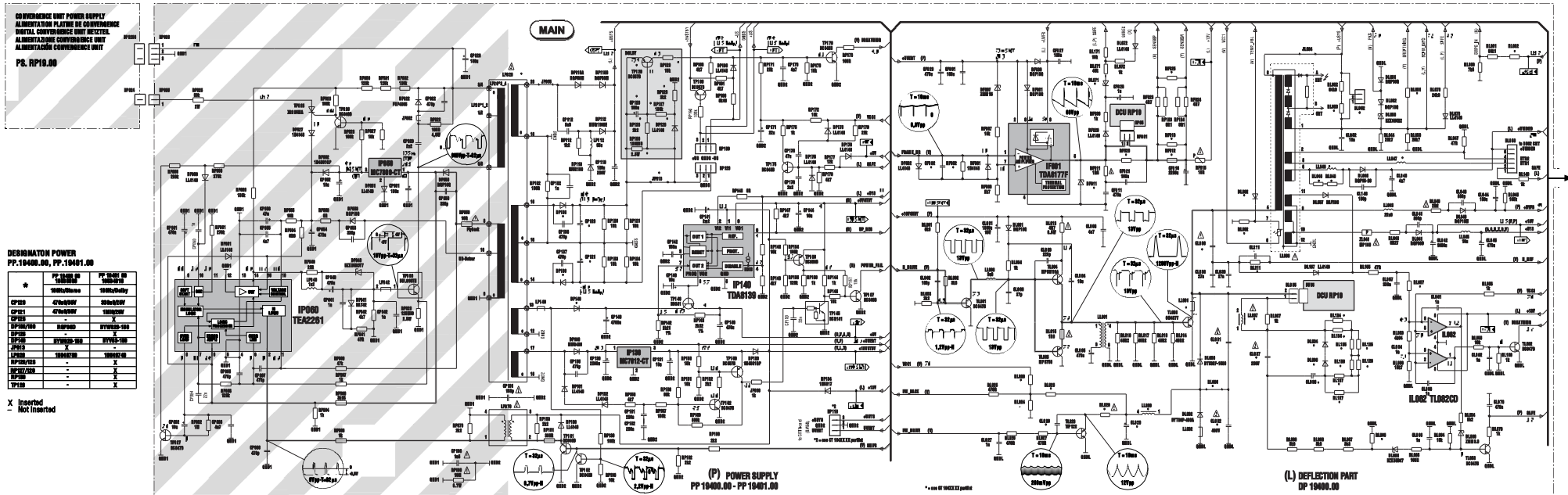
MAIN
 (I) 827901-2001
 827901-2002

Part No.	Value	Part No.	Value
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000

HEAD PART
 827901-2004

TUNER PART
 827901-2005

MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



DERIVATION POWER
PP 19400.00 - PP 19461.00

	PP 19400.00	PP 19461.00
CP100	470000000	500000000
CP101	470000000	500000000
CP102	-	-
CP103	100000000	100000000
CP104	100000000	100000000
CP105	100000000	100000000
CP106	100000000	100000000
CP107	100000000	100000000
CP108	100000000	100000000
CP109	100000000	100000000
CP110	100000000	100000000
CP111	100000000	100000000
CP112	100000000	100000000
CP113	100000000	100000000
CP114	100000000	100000000
CP115	100000000	100000000
CP116	100000000	100000000
CP117	100000000	100000000
CP118	100000000	100000000
CP119	100000000	100000000
CP120	100000000	100000000

X Inserted
Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primariale des leccale.
Parte dello chassis collegata alla rete.
Parte do chassis conectada a la red.

Use isolating mains transformer
Utilise un transformateur isolateur du secteur
Einen Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarsi dalla rete

Metric :
Power supply primary circuit measurements.
- Use only (GND1) connection point.

Attention :
Mesure dans la partie primaire de l'alimentation
- Utiliser la masse du bloc alimentation (GND1).

Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (GND1).

Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (GND1).

Caution :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Safety Part
When repairing, use original part only
Plaza de seguridad
N'utilisez que les pièces d'origine
Sicherheitsteil
Bei Ersatz nur Originalteile verwenden
Componenti di sicurezza
durante la riparazione usare component originali
Plaza de seguridad
Utilice solo piezas originales

Deflection - Tube Partials

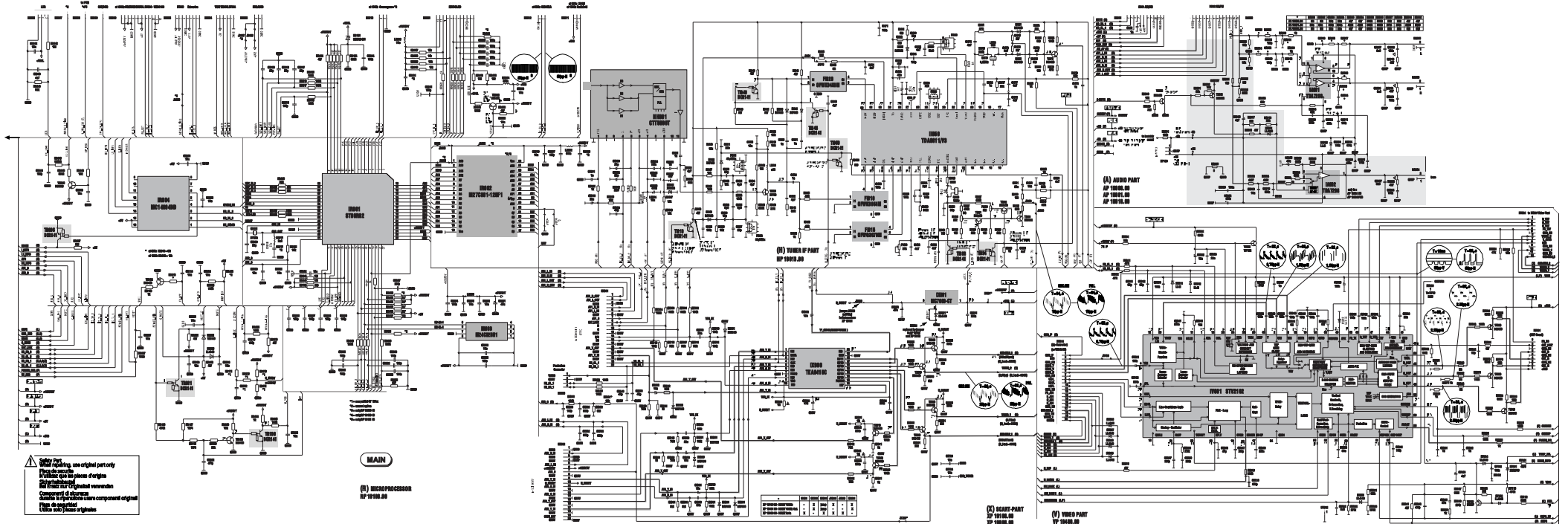
	CT 19400.00	CT 19461.00
CP100	470000000	500000000
CP101	470000000	500000000
CP102	-	-
CP103	100000000	100000000
CP104	100000000	100000000
CP105	100000000	100000000
CP106	100000000	100000000
CP107	100000000	100000000
CP108	100000000	100000000
CP109	100000000	100000000
CP110	100000000	100000000
CP111	100000000	100000000
CP112	100000000	100000000
CP113	100000000	100000000
CP114	100000000	100000000
CP115	100000000	100000000
CP116	100000000	100000000
CP117	100000000	100000000
CP118	100000000	100000000
CP119	100000000	100000000
CP120	100000000	100000000

Deflection - Tube Partials

	CT 19400.00	CT 19461.00
CP100	470000000	500000000
CP101	470000000	500000000
CP102	-	-
CP103	100000000	100000000
CP104	100000000	100000000
CP105	100000000	100000000
CP106	100000000	100000000
CP107	100000000	100000000
CP108	100000000	100000000
CP109	100000000	100000000
CP110	100000000	100000000
CP111	100000000	100000000
CP112	100000000	100000000
CP113	100000000	100000000
CP114	100000000	100000000
CP115	100000000	100000000
CP116	100000000	100000000
CP117	100000000	100000000
CP118	100000000	100000000
CP119	100000000	100000000
CP120	100000000	100000000

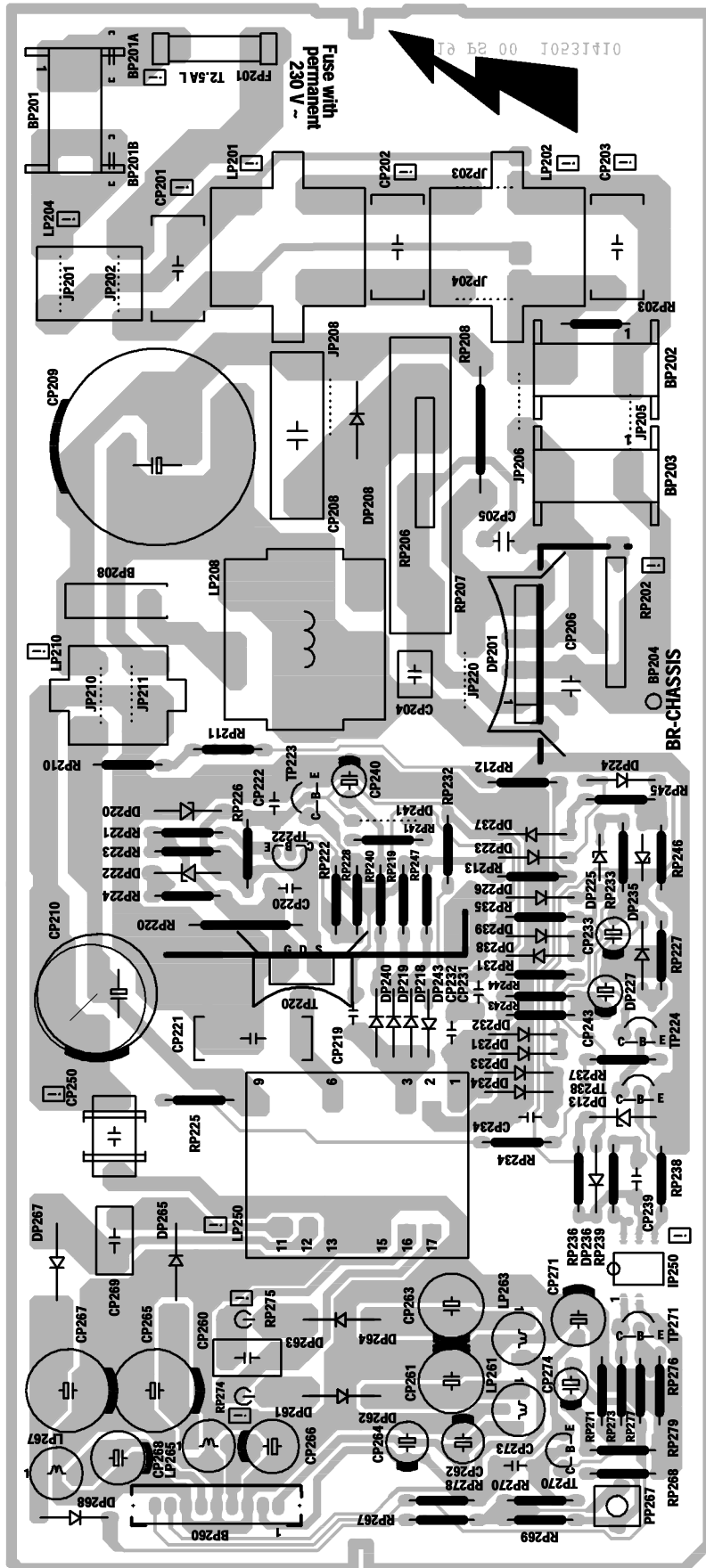
Note : the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 19400 34 Ulys 134V →
Note : Los dos últimos números de la denominación CT xxxx, indica la tensión Ulys
e.g. CT 19400 34 Ulys 134V →

MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



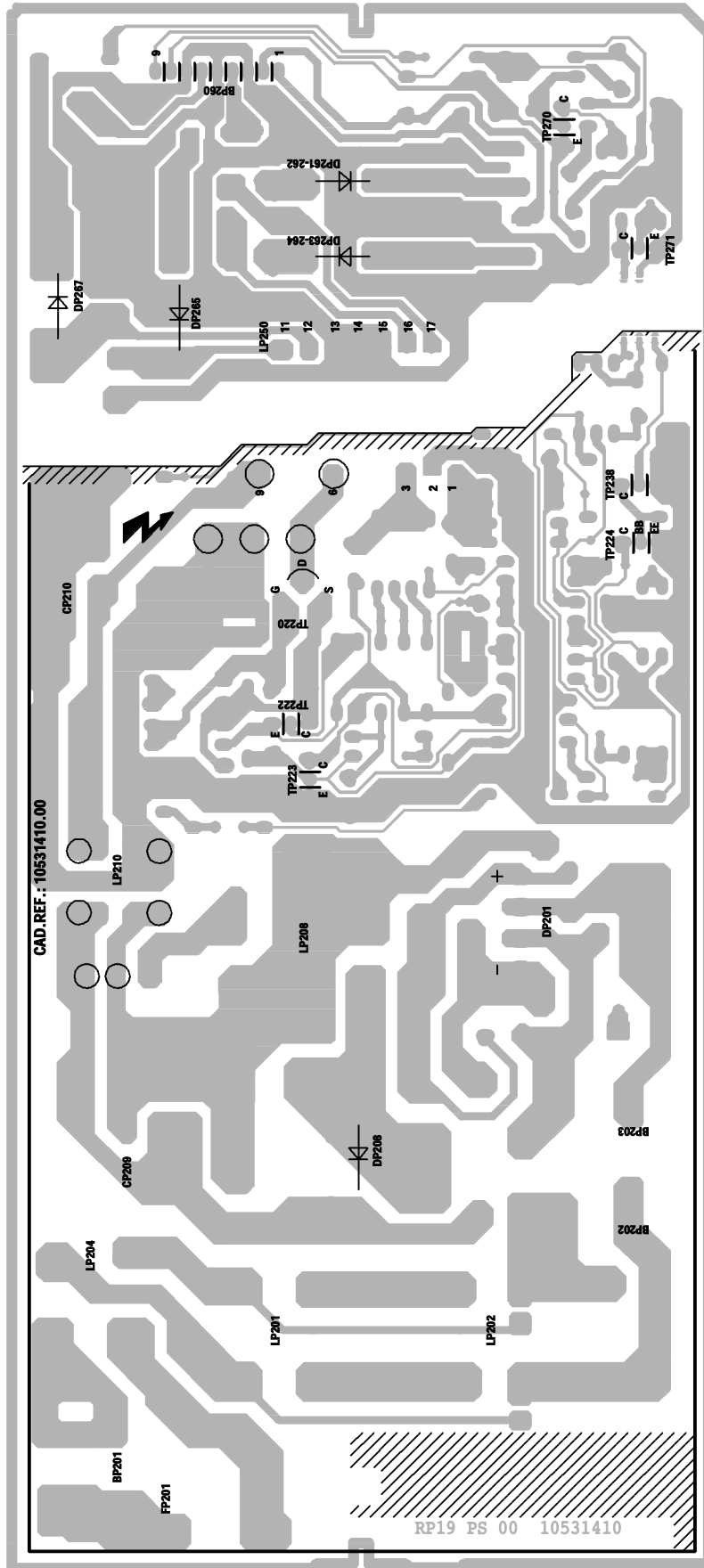
PS RP19 00

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



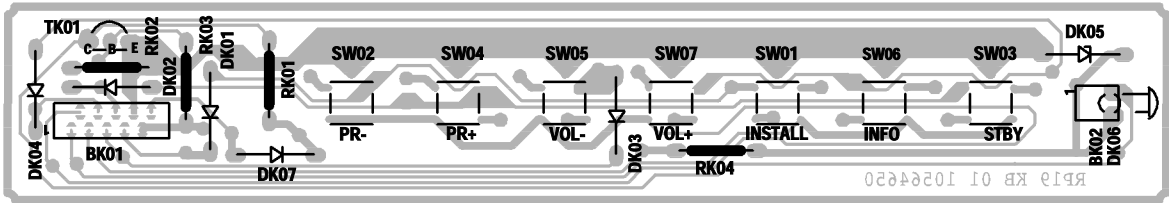
PS RP19 00

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

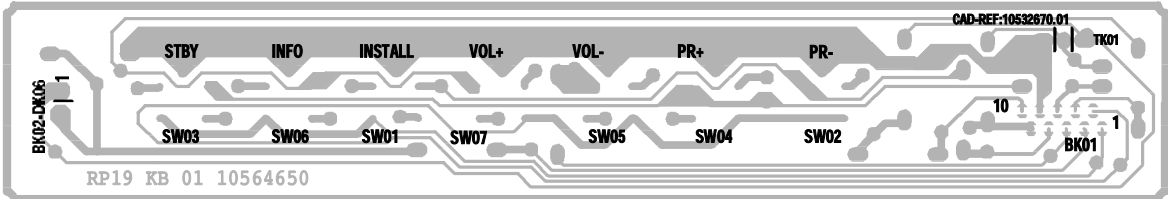


KB RP19.00

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

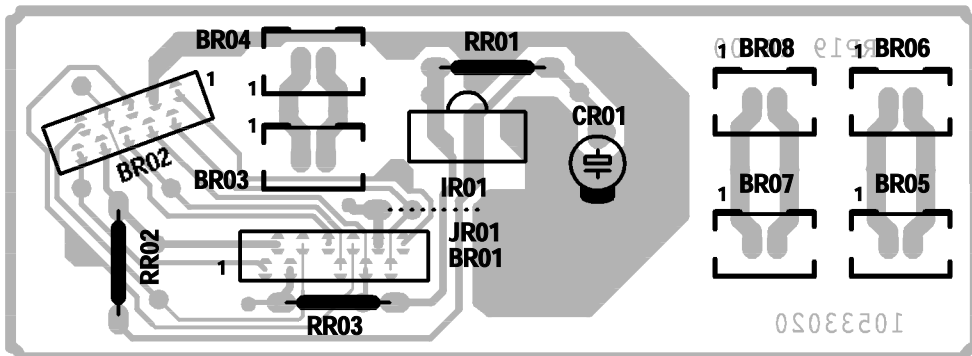


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

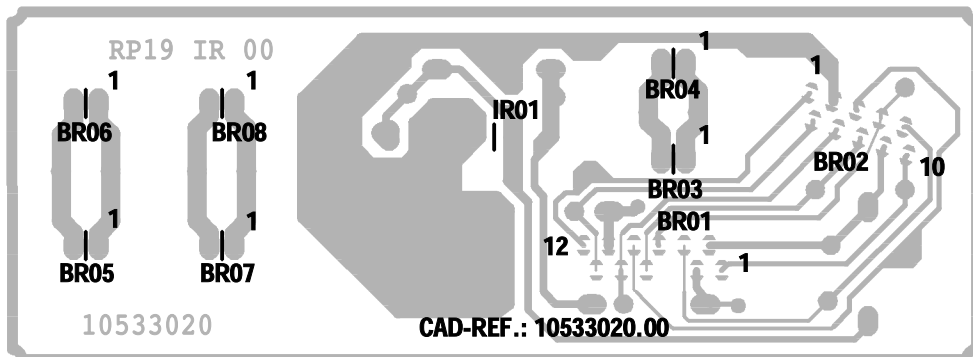


IR.RP19.00

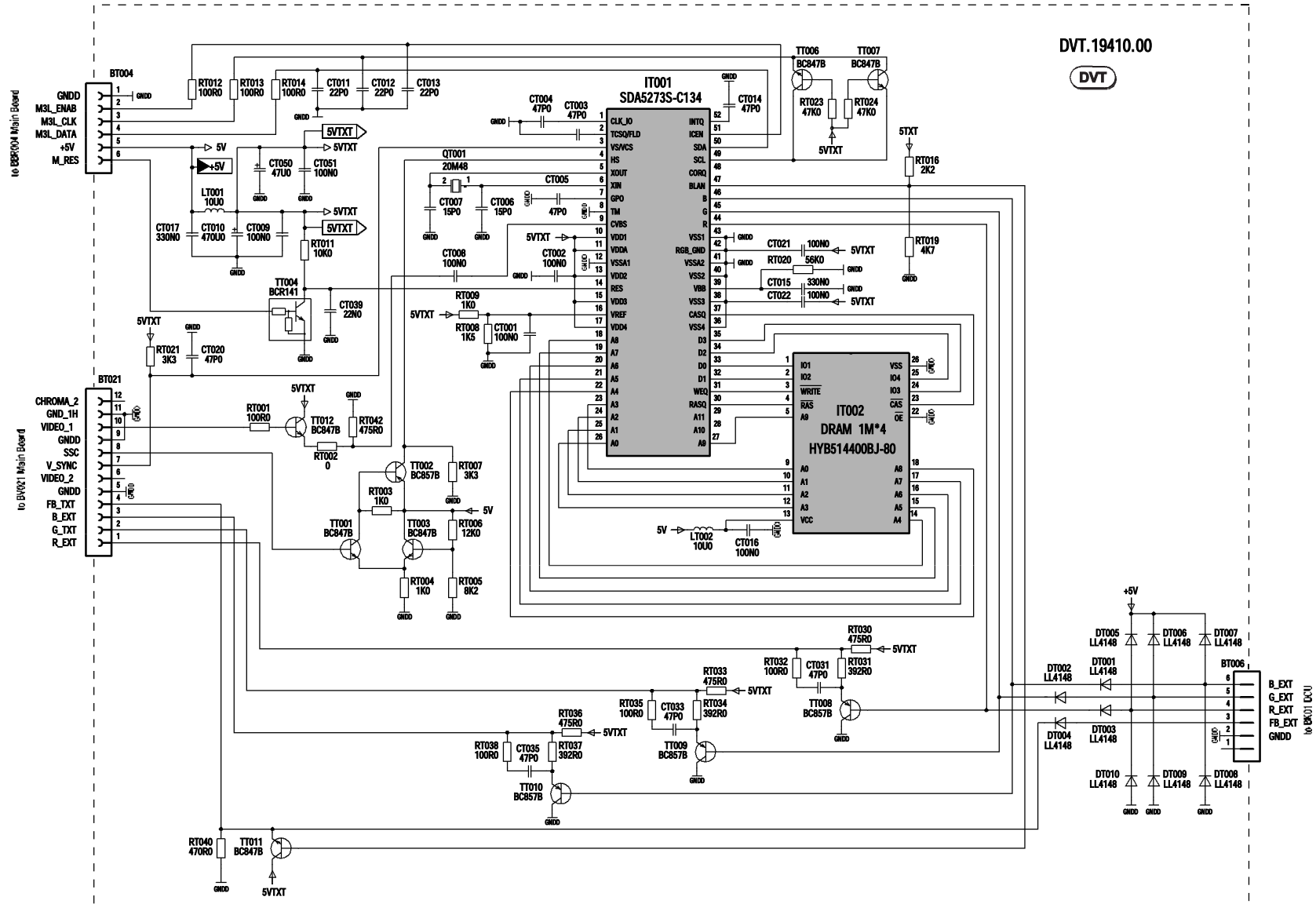
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



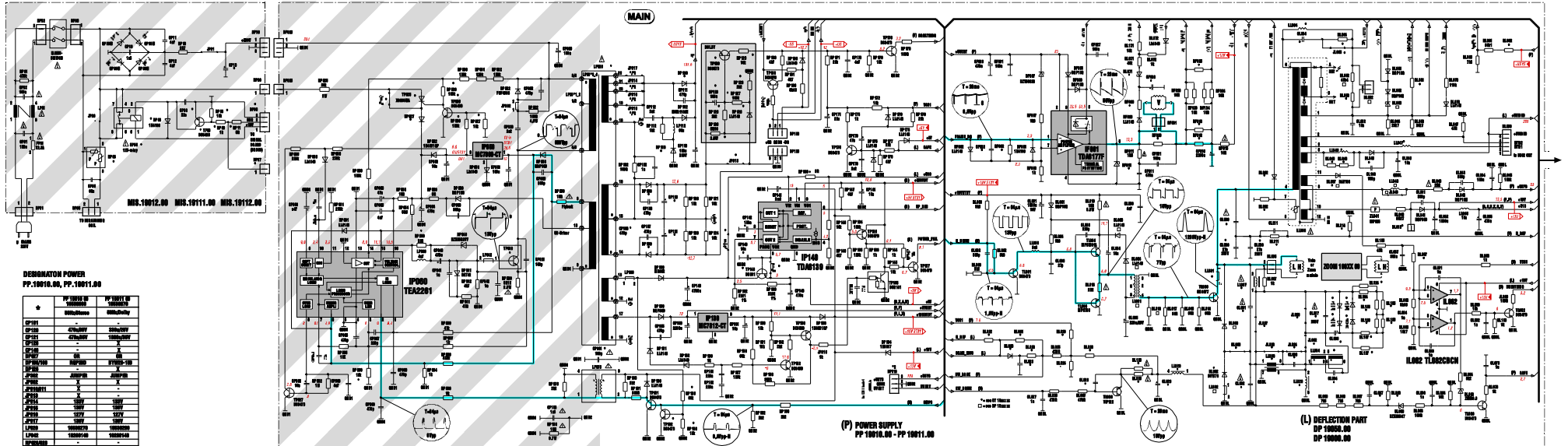
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



TELETEXT MODULE - MODULE TELETXTTE - VIDEOTEXT MODUL - MODULO TELEVIDEO - MÓDULO TELETXTTO



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



DEREGMATION POWER
PP.10010.00, PP.10011.00

	PP.10010.00	PP.10011.00
CP101	-	-
CP102	-	-
CP103	-	-
CP104	-	-
CP105	-	-
CP106	-	-
CP107	-	-
CP108	-	-
CP109	-	-
CP110	-	-
CP111	-	-
CP112	-	-
CP113	-	-
CP114	-	-
CP115	-	-
CP116	-	-
CP117	-	-
CP118	-	-
CP119	-	-
CP120	-	-
CP121	-	-
CP122	-	-
CP123	-	-
CP124	-	-
CP125	-	-
CP126	-	-
CP127	-	-
CP128	-	-
CP129	-	-
CP130	-	-
CP131	-	-
CP132	-	-
CP133	-	-
CP134	-	-
CP135	-	-
CP136	-	-
CP137	-	-
CP138	-	-
CP139	-	-
CP140	-	-
CP141	-	-
CP142	-	-
CP143	-	-
CP144	-	-
CP145	-	-
CP146	-	-
CP147	-	-
CP148	-	-
CP149	-	-
CP150	-	-
CP151	-	-
CP152	-	-
CP153	-	-
CP154	-	-
CP155	-	-
CP156	-	-
CP157	-	-
CP158	-	-
CP159	-	-
CP160	-	-
CP161	-	-
CP162	-	-
CP163	-	-
CP164	-	-
CP165	-	-
CP166	-	-
CP167	-	-
CP168	-	-
CP169	-	-
CP170	-	-
CP171	-	-
CP172	-	-
CP173	-	-
CP174	-	-
CP175	-	-
CP176	-	-
CP177	-	-
CP178	-	-
CP179	-	-
CP180	-	-
CP181	-	-
CP182	-	-
CP183	-	-
CP184	-	-
CP185	-	-
CP186	-	-
CP187	-	-
CP188	-	-
CP189	-	-
CP190	-	-
CP191	-	-
CP192	-	-
CP193	-	-
CP194	-	-
CP195	-	-
CP196	-	-
CP197	-	-
CP198	-	-
CP199	-	-
CP200	-	-

X Inserted
- Not Inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzkabls.
Parte dello chassis collegata alla rete.
Parte del chasis conectada a la red.

Safety Part
When repairing, use original part only
Pièces de sécurité
N'utilisez que les pièces d'origine
Sicherheitsbestand
Bei Ersatz nur Originalmaterial verwenden
Componenti di sicurezza
Per la riparazione utilizzare solo componenti originali
Piezas de seguridad
Utilice solo piezas originales

Note:
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attention:
- Mesure dans le bloc alimentation (GND1).
- Utilisez la masse du bloc alimentation (GND1).
Aufmerksamkeit:
- Bei Messungen im Primärmetall
- Primärmetallmessung verwenden (GND1).
Attenzione:
- misurare nell'alimentatore primario
- usare massa alimentazione primario (GND1).
Datieltelt:
- Měřte v et bloku de alimentace
- Utilizér la mass del bloku de alimentace (GND1).

Use isolating mains transformer
Utilisez un transformateur isolateur du secteur
Ehnen Transformator verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolare dalla rete

Databelle - Data Partliste

	10010.00	10011.00
BL001	-	-
BL002	-	-
BL003	-	-
BL004	-	-
BL005	-	-
BL006	-	-
BL007	-	-
BL008	-	-
BL009	-	-
BL010	-	-
BL011	-	-
BL012	-	-
BL013	-	-
BL014	-	-
BL015	-	-
BL016	-	-
BL017	-	-
BL018	-	-
BL019	-	-
BL020	-	-
BL021	-	-
BL022	-	-
BL023	-	-
BL024	-	-
BL025	-	-
BL026	-	-
BL027	-	-
BL028	-	-
BL029	-	-
BL030	-	-
BL031	-	-
BL032	-	-
BL033	-	-
BL034	-	-
BL035	-	-
BL036	-	-
BL037	-	-
BL038	-	-
BL039	-	-
BL040	-	-
BL041	-	-
BL042	-	-
BL043	-	-
BL044	-	-
BL045	-	-
BL046	-	-
BL047	-	-
BL048	-	-
BL049	-	-
BL050	-	-
BL051	-	-
BL052	-	-
BL053	-	-
BL054	-	-
BL055	-	-
BL056	-	-
BL057	-	-
BL058	-	-
BL059	-	-
BL060	-	-
BL061	-	-
BL062	-	-
BL063	-	-
BL064	-	-
BL065	-	-
BL066	-	-
BL067	-	-
BL068	-	-
BL069	-	-
BL070	-	-
BL071	-	-
BL072	-	-
BL073	-	-
BL074	-	-
BL075	-	-
BL076	-	-
BL077	-	-
BL078	-	-
BL079	-	-
BL080	-	-
BL081	-	-
BL082	-	-
BL083	-	-
BL084	-	-
BL085	-	-
BL086	-	-
BL087	-	-
BL088	-	-
BL089	-	-
BL090	-	-
BL091	-	-
BL092	-	-
BL093	-	-
BL094	-	-
BL095	-	-
BL096	-	-
BL097	-	-
BL098	-	-
BL099	-	-
BL100	-	-

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- Not Inserted

Deflection - Pistone Tube related Partliste

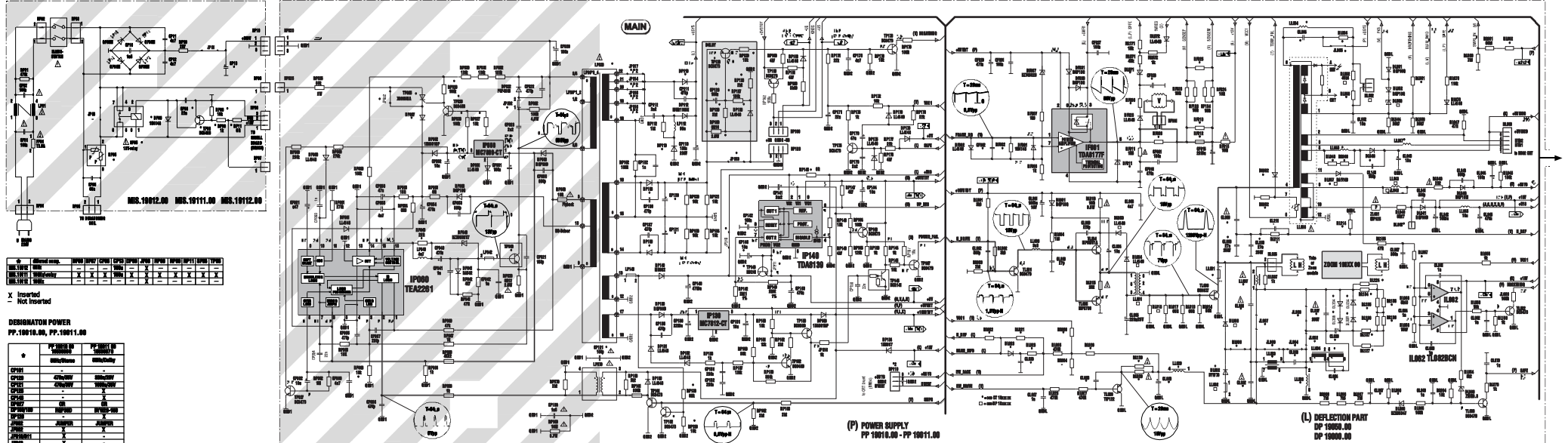
	CT 10000.00	CT 10001.00	CT 10002.00	CT 10003.00	CT 10004.00
DL001	-	-	-	-	-
DL002	-	-	-	-	-
DL003	-	-	-	-	-
DL004	-	-	-	-	-
DL005	-	-	-	-	-
DL006	-	-	-	-	-
DL007	-	-	-	-	-
DL008	-	-	-	-	-
DL009	-	-	-	-	-
DL010	-	-	-	-	-
DL011	-	-	-	-	-
DL012	-	-	-	-	-
DL013	-	-	-	-	-
DL014	-	-	-	-	-
DL015	-	-	-	-	-
DL016	-	-	-	-	-
DL017	-	-	-	-	-
DL018	-	-	-	-	-
DL019	-	-	-	-	-
DL020	-	-	-	-	-
DL021	-	-	-	-	-
DL022	-	-	-	-	-
DL023	-	-	-	-	-
DL024	-	-	-	-	-
DL025	-	-	-	-	-
DL026	-	-	-	-	-
DL027	-	-	-	-	-
DL028	-	-	-	-	-
DL029	-	-	-	-	-
DL030	-	-	-	-	-
DL031	-	-	-	-	-
DL032	-	-	-	-	-
DL033	-	-	-	-	-
DL034	-	-	-	-	-
DL035	-	-	-	-	-
DL036	-	-	-	-	-
DL037	-	-	-	-	-
DL038	-	-	-	-	-
DL039	-	-	-	-	-
DL040	-	-	-	-	-
DL041	-	-	-	-	-
DL042	-	-	-	-	-
DL043	-	-	-	-	-
DL044	-	-	-	-	-
DL045	-	-	-	-	-
DL046	-	-	-	-	-
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DL051	-	-	-	-	-
DL052	-	-	-	-	-
DL053	-	-	-	-	-
DL054	-	-	-	-	-
DL055	-	-	-	-	-
DL056	-	-	-	-	-
DL057	-	-	-	-	-
DL058	-	-	-	-	-
DL059	-	-	-	-	-
DL060	-	-	-	-	-
DL061	-	-	-	-	-
DL062	-	-	-	-	-
DL063	-	-	-	-	-
DL064	-	-	-	-	-
DL065	-	-	-	-	-
DL066	-	-	-	-	-
DL067	-	-	-	-	-
DL068	-	-	-	-	-
DL069	-	-	-	-	-
DL070	-	-	-	-	-
DL071	-	-	-	-	-
DL072	-	-	-	-	-
DL073	-	-	-	-	-
DL074	-	-	-	-	-
DL075	-	-	-	-	-
DL076	-	-	-	-	-
DL077	-	-	-	-	-
DL078	-	-	-	-	-
DL079	-	-	-	-	-
DL080	-	-	-	-	-
DL081	-	-	-	-	-
DL082	-	-	-	-	-
DL083	-	-	-	-	-
DL084	-	-	-	-	-
DL085	-	-	-	-	-
DL086	-	-	-	-	-
DL087	-	-	-	-	-
DL088	-	-	-	-	-
DL089	-	-	-	-	-
DL090	-	-	-	-	-
DL091	-	-	-	-	-
DL092	-	-	-	-	-
DL093	-	-	-	-	-
DL094	-	-	-	-	-
DL095	-	-	-	-	-
DL096	-	-	-	-	-
DL097	-	-	-	-	-
DL098	-	-	-	-	-
DL099	-	-	-	-	-
DL100	-	-	-	-	-

Note: the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 10005 31 Uays 131V →
Note: Los dos últimos números de la denominación CT xxxx, indica la tensión Uays
e.g. CT 10005 31 Uays 131V →

Deflection - Pistone Tube related Partliste

	CT 10000.00	CT 10001.00	CT 10002.00	CT 10003.00	CT 10004.00
DL101	-	-	-	-	-
DL102	-	-	-	-	-
DL103	-	-	-	-	-
DL104	-	-	-	-	-
DL105	-	-	-	-	-
DL106	-	-			

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



IC	Original name	IP000	IP140	CT001	CT002	CT003	CT004	CT005	CT006	CT007	CT008	CT009	CT010
IP000	TEA2201	X	X	X	X	X	X	X	X	X	X	X	X
IP140	TEA2201	X	X	X	X	X	X	X	X	X	X	X	X

X Inserted
Not Inserted

DESIGNATOR POWER
PP 10010.00, PP 10011.00

CT	PP 10010.00	PP 10011.00
CT001	470µF/50V	470µF/50V
CT002	470µF/50V	470µF/50V
CT003	100µF/50V	100µF/50V
CT004	100µF/50V	100µF/50V
CT005	100µF/50V	100µF/50V
CT006	100µF/50V	100µF/50V
CT007	100µF/50V	100µF/50V
CT008	100µF/50V	100µF/50V
CT009	100µF/50V	100µF/50V
CT010	100µF/50V	100µF/50V

X Inserted
Not Inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Prinamnta des Netzeleis.
Parte della circuito collegata alla rete.
Parte del chassis conectada a la red.

Safety Part
When repairing, use original part only
Pièces de sécurité
N'utiliser que les pièces d'origine
Sicherheitsbestand
Bei Ersatz nur Originalteile verwenden
Component of safety
Per la riparazione utilizzare solo component originali
Piezas de seguridad
Utilice solo piezas originales

Meas :
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attenzione :
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (GND1).
Aufnahme :
Bei Messungen im Primärkreis
- Primärkreismitnahme verwenden (GND1).
Attenzione :
misure nell'alimentazione primario
- usare massa alimentazione primario (GND1).
Medida :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Use Isolating mains transformer
Utilise un transformateur isolateur du secteur
Sicher Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarvi dalla rete

Reference - Issue PartNo	ISSUE 2008	
	IP000	IP140
IP000	X	X
IP140	X	X
CT001	X	X
CT002	X	X
CT003	X	X
CT004	X	X
CT005	X	X
CT006	X	X
CT007	X	X
CT008	X	X
CT009	X	X
CT010	X	X

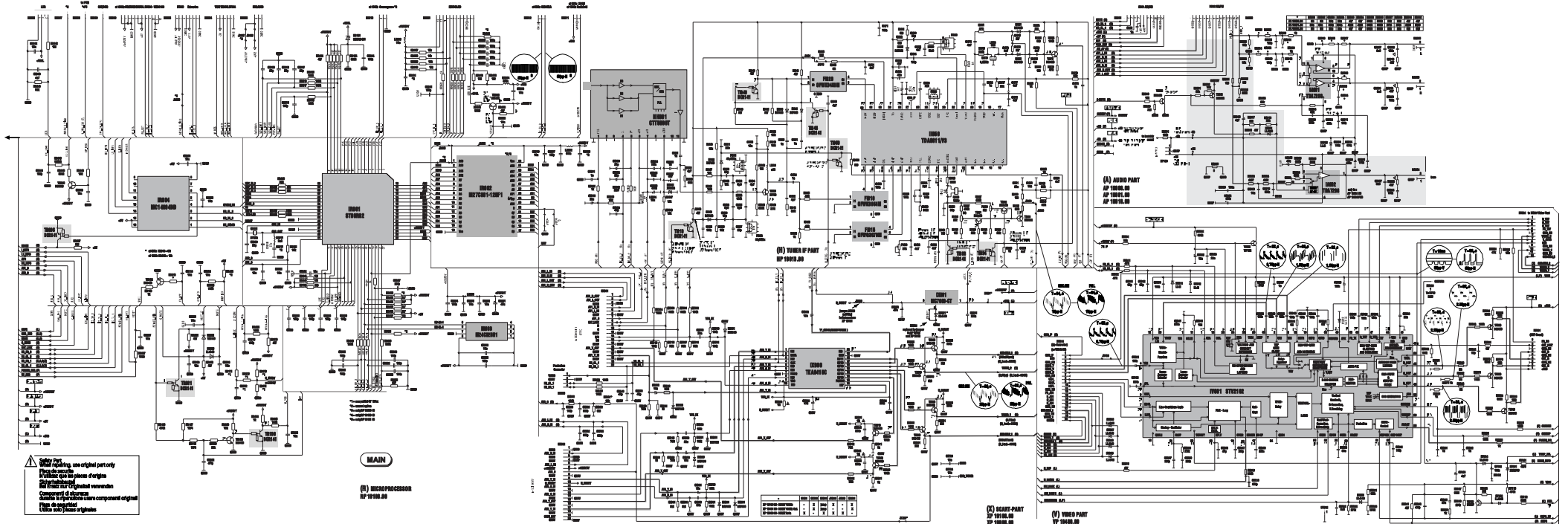
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Reference - Power Tube related PartNo	ISSUE 2008			
	IP000	IP140	CT001	CT002
IP000	X	X	X	X
IP140	X	X	X	X
CT001	X	X	X	X
CT002	X	X	X	X
CT003	X	X	X	X
CT004	X	X	X	X
CT005	X	X	X	X
CT006	X	X	X	X
CT007	X	X	X	X
CT008	X	X	X	X
CT009	X	X	X	X
CT010	X	X	X	X

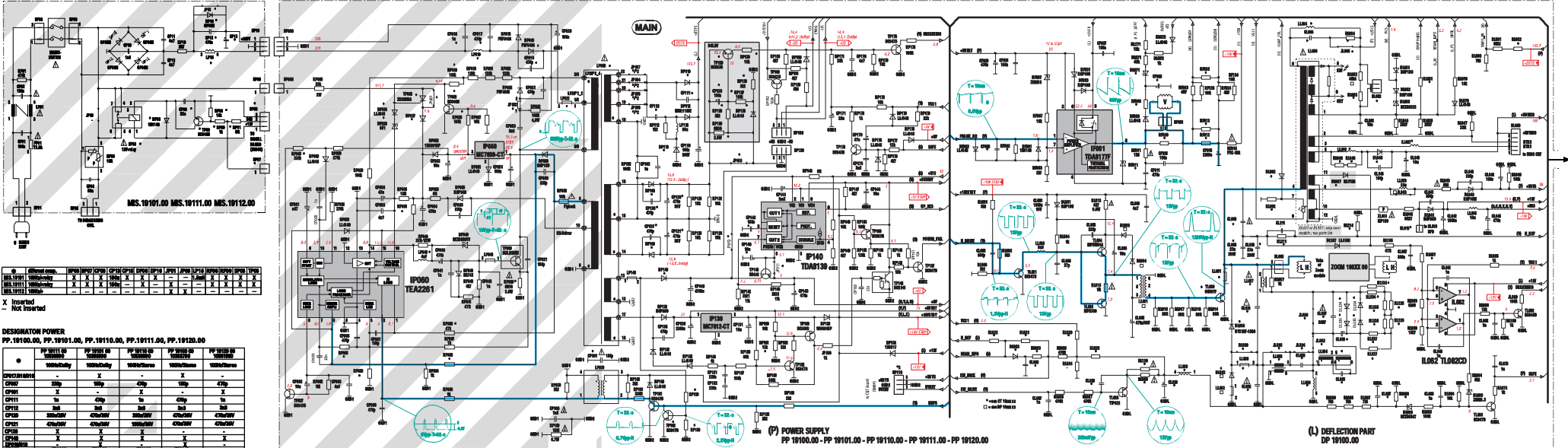
Reference - Power Tube related PartNo	ISSUE 2008			
	IP000	IP140	CT001	CT002
IP000	X	X	X	X
IP140	X	X	X	X
CT001	X	X	X	X
CT002	X	X	X	X
CT003	X	X	X	X
CT004	X	X	X	X
CT005	X	X	X	X
CT006	X	X	X	X
CT007	X	X	X	X
CT008	X	X	X	X
CT009	X	X	X	X
CT010	X	X	X	X

Note : the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 10005 31 Uses 151V →
Note : Los dos últimos números de la denominación CT xxxx, indica la tensión Usge
e.g. CT 10005 31 Usa 151V →

MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



	MS. 10101.00	MS. 10111.00	MS. 10120.00
IC101	X	X	X
IC102	X	X	X
IC103	X	X	X
IC104	X	X	X
IC105	X	X	X
IC106	X	X	X
IC107	X	X	X
IC108	X	X	X
IC109	X	X	X
IC110	X	X	X
IC111	X	X	X
IC112	X	X	X
IC113	X	X	X
IC114	X	X	X
IC115	X	X	X
IC116	X	X	X
IC117	X	X	X
IC118	X	X	X
IC119	X	X	X
IC120	X	X	X
IC121	X	X	X
IC122	X	X	X
IC123	X	X	X
IC124	X	X	X
IC125	X	X	X
IC126	X	X	X
IC127	X	X	X
IC128	X	X	X
IC129	X	X	X
IC130	X	X	X
IC131	X	X	X
IC132	X	X	X
IC133	X	X	X
IC134	X	X	X
IC135	X	X	X
IC136	X	X	X
IC137	X	X	X
IC138	X	X	X
IC139	X	X	X
IC140	X	X	X
IC141	X	X	X
IC142	X	X	X
IC143	X	X	X
IC144	X	X	X
IC145	X	X	X
IC146	X	X	X
IC147	X	X	X
IC148	X	X	X
IC149	X	X	X
IC150	X	X	X
IC151	X	X	X
IC152	X	X	X
IC153	X	X	X
IC154	X	X	X
IC155	X	X	X
IC156	X	X	X
IC157	X	X	X
IC158	X	X	X
IC159	X	X	X
IC160	X	X	X
IC161	X	X	X
IC162	X	X	X
IC163	X	X	X
IC164	X	X	X
IC165	X	X	X
IC166	X	X	X
IC167	X	X	X
IC168	X	X	X
IC169	X	X	X
IC170	X	X	X
IC171	X	X	X
IC172	X	X	X
IC173	X	X	X
IC174	X	X	X
IC175	X	X	X
IC176	X	X	X
IC177	X	X	X
IC178	X	X	X
IC179	X	X	X
IC180	X	X	X
IC181	X	X	X
IC182	X	X	X
IC183	X	X	X
IC184	X	X	X
IC185	X	X	X
IC186	X	X	X
IC187	X	X	X
IC188	X	X	X
IC189	X	X	X
IC190	X	X	X
IC191	X	X	X
IC192	X	X	X
IC193	X	X	X
IC194	X	X	X
IC195	X	X	X
IC196	X	X	X
IC197	X	X	X
IC198	X	X	X
IC199	X	X	X
IC200	X	X	X

DESIGNATION POWER
PP-10100.00, PP-10101.00, PP-10110.00, PP-10111.00, PP-10120.00

	PP-10100.00	PP-10101.00	PP-10110.00	PP-10111.00	PP-10120.00
CP201	X	X	X	X	X
CP202	X	X	X	X	X
CP203	X	X	X	X	X
CP204	X	X	X	X	X
CP205	X	X	X	X	X
CP206	X	X	X	X	X
CP207	X	X	X	X	X
CP208	X	X	X	X	X
CP209	X	X	X	X	X
CP210	X	X	X	X	X
CP211	X	X	X	X	X
CP212	X	X	X	X	X
CP213	X	X	X	X	X
CP214	X	X	X	X	X
CP215	X	X	X	X	X
CP216	X	X	X	X	X
CP217	X	X	X	X	X
CP218	X	X	X	X	X
CP219	X	X	X	X	X
CP220	X	X	X	X	X
CP221	X	X	X	X	X
CP222	X	X	X	X	X
CP223	X	X	X	X	X
CP224	X	X	X	X	X
CP225	X	X	X	X	X
CP226	X	X	X	X	X
CP227	X	X	X	X	X
CP228	X	X	X	X	X
CP229	X	X	X	X	X
CP230	X	X	X	X	X
CP231	X	X	X	X	X
CP232	X	X	X	X	X
CP233	X	X	X	X	X
CP234	X	X	X	X	X
CP235	X	X	X	X	X
CP236	X	X	X	X	X
CP237	X	X	X	X	X
CP238	X	X	X	X	X
CP239	X	X	X	X	X
CP240	X	X	X	X	X

! Safety Part
When repairing, use original part only
Pièces de sécurité
N'utilisez que les pièces d'origine
Schutzteile/Sicherheitsteile
Benutzen Sie Originalteile
Sostituisca solo Componenti originali
Para la reparación utilicez solo component original
Plaza de seguridad
Utilicez solo piezas originales

Note:
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attention:
Mesure dans le bloc alimentation
- Utilisez la masse du bloc alimentation (GND1).
Achtung:
Bei Messungen im Primärkreisfall
- Primärkreisfallmessung verwenden (GND1).
Attenzione:
misura nell'alimentazione primario
- usare massa alimentazione primario (GND1).
Cuidado:
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

! Use Isolating mains transformer
Utilisez un transformateur isolateur du secteur
Einsatz Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizar un transformador per Isolarti dalla rete

Designation	Stock Part
D101	10100000
D102	10100000
D103	10100000
D104	10100000
D105	10100000
D106	10100000
D107	10100000
D108	10100000
D109	10100000
D110	10100000
D111	10100000
D112	10100000
D113	10100000
D114	10100000
D115	10100000
D116	10100000
D117	10100000
D118	10100000
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D121	10100000
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D123	10100000
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D130	10100000
D131	10100000
D132	10100000
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D135	10100000
D136	10100000
D137	10100000
D138	10100000
D139	10100000
D140	10100000

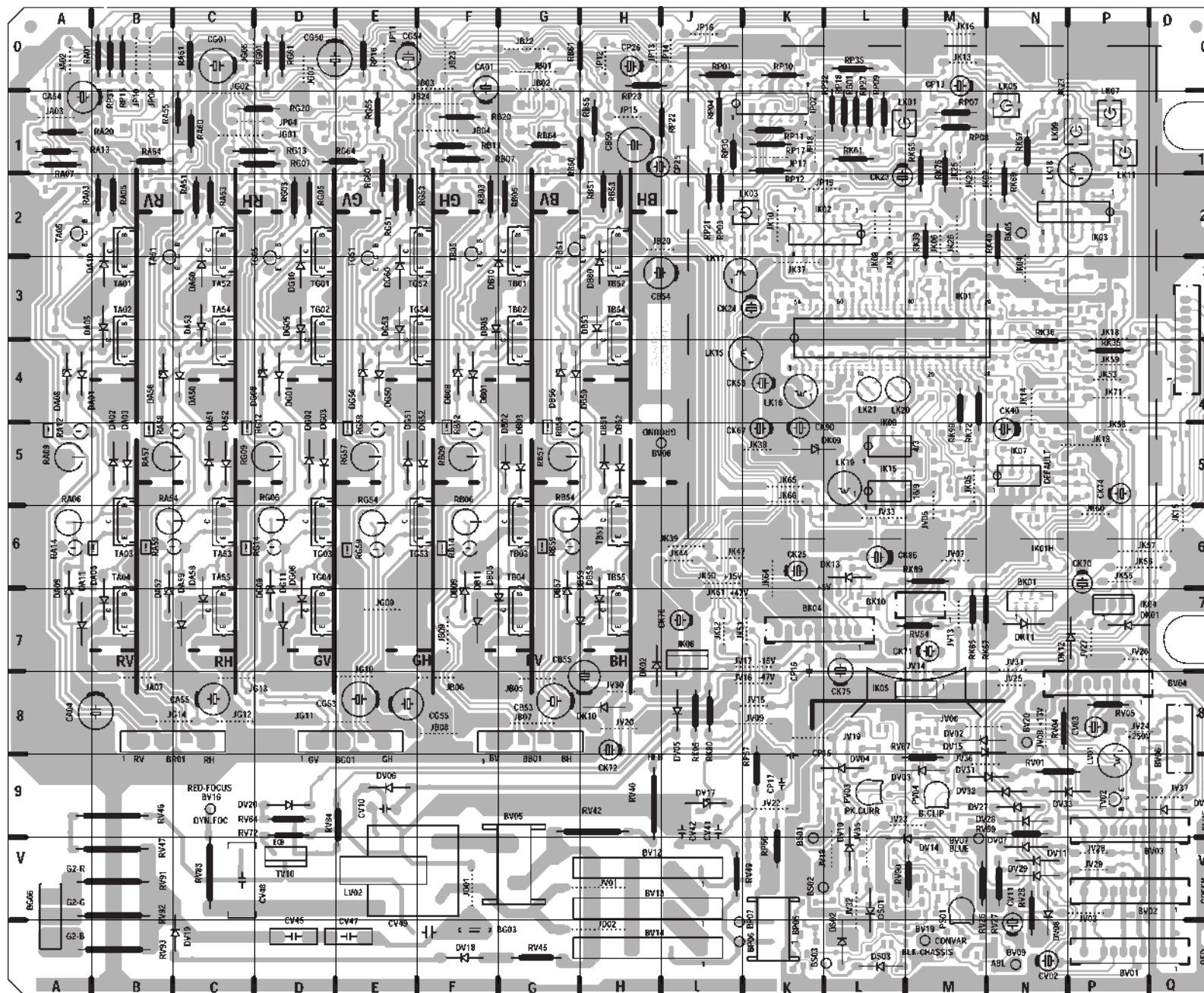
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Designation	Power Tube related Part
CT 10100 04	10100000
CT 10100 10	10100000
CT 10100 20	10100000
CT 10100 30	10100000
CT 10100 40	10100000
CT 10100 50	10100000
CT 10100 60	10100000
CT 10100 70	10100000
CT 10100 80	10100000
CT 10100 90	10100000
CT 10100 01	10100000
CT 10100 02	10100000
CT 10100 03	10100000
CT 10100 04	10100000
CT 10100 05	10100000
CT 10100 06	10100000
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CT 10100 91	10100000
CT 10100 92	10100000
CT 10100 93	10100000
CT 10100 94	10100000
CT 10100 95	10100000
CT 10100 96	10100000
CT 10100 97	10100000
CT 10100 98	10100000
CT 10100 99	10100000
CT 10100 100	10100000

Note: the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 10005 31 10005 151V →
Note: Los dos últimos números de la designación CT xxxx, indica la tensión Uoys
e.g. CT 10005 31 10005 151V →

Designation	Fluorescense Tube related Part
CT 10100 04	10100000
CT 10100 10	10100000
CT 10100 20	10100000
CT 10100 30	10100000
CT 10100 40	10100000
CT 10100 50	10100000
CT 10100 60	10100000
CT 10100 70	10100000
CT 10100 80	10100000
CT 10100 90	10100000
CT 10100 01	10100000
CT 10100 02	10100000
CT 10100	

DIGITAL CONVERGENCE UNIT - PLATINE DE CONVERGENCES NUMERIQUES - DIGITALE KONVERGENZ EINHEIT - UNITÀ DI CONVERGENZA DIGITALE - UNIDAD DE CONVERGENCIA DIGITAL

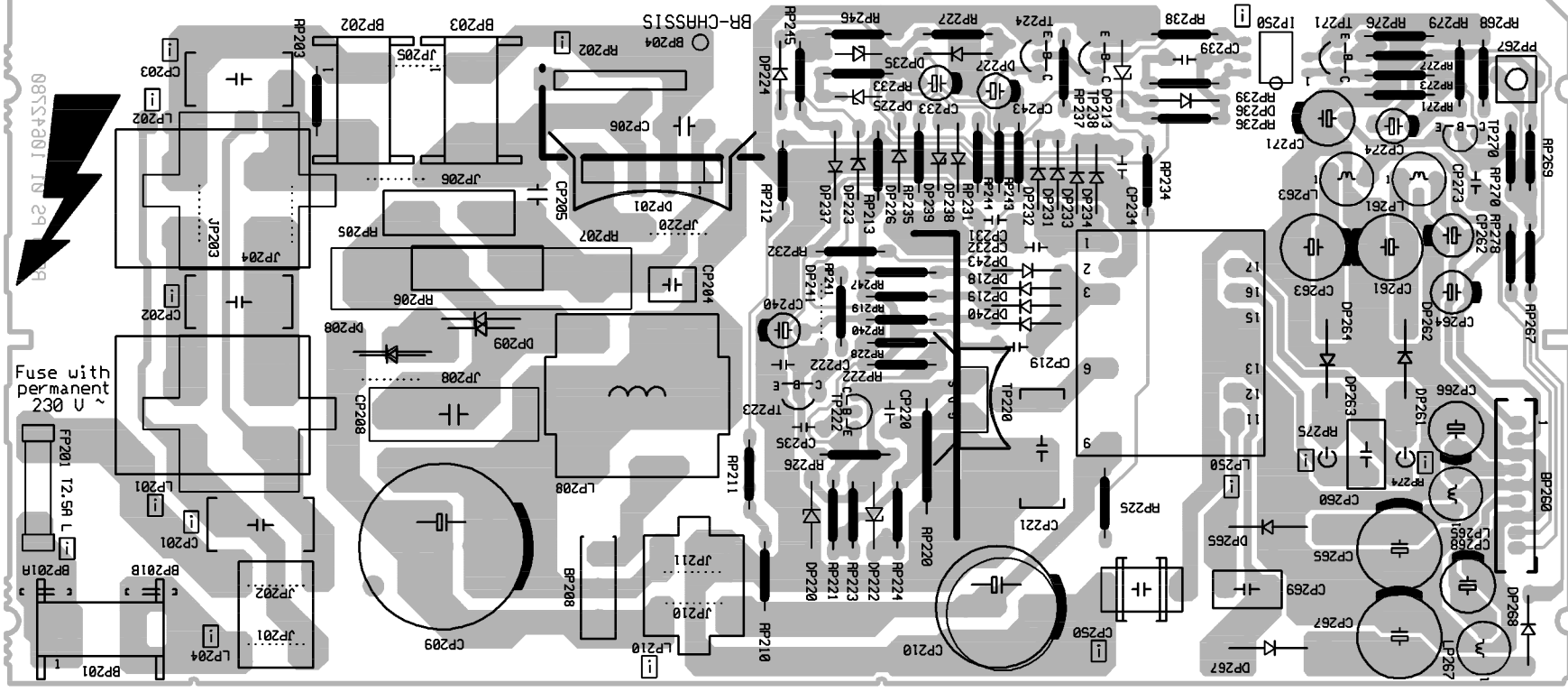


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



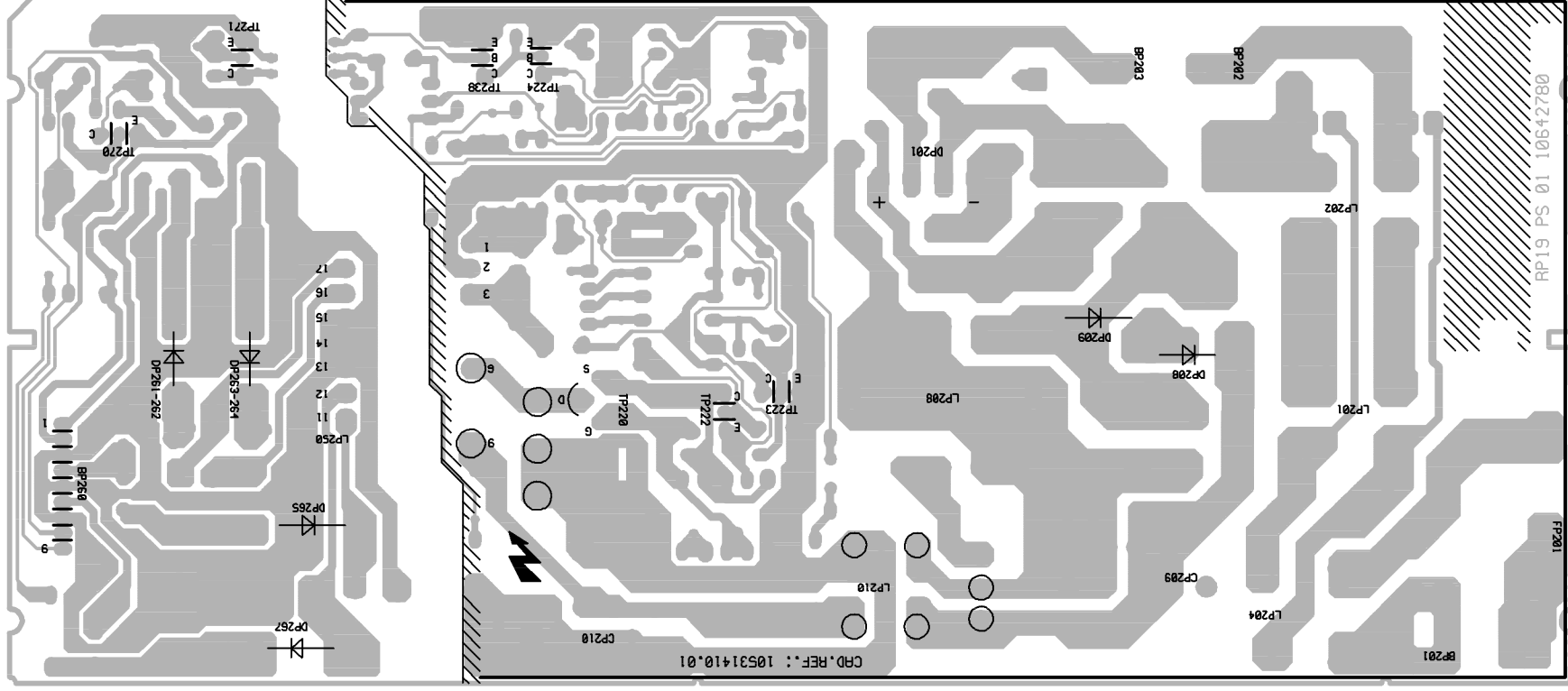
PS RP19 01

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



PS RP19 01

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



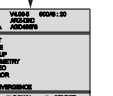
I - ENTER/EXIT SERVICE MODE - ENTREPRISE/Sorte DU MODE SERVICE - EIN/UND AUSSTIEG SERVICE MODE - ACCESSO/SCITA ALLA/DALLA FUNZIONE - ENTRADA/SALIDA MODO SERVICIO

SERVICE MODE **GB**

I ACCESSING THE SERVICE MODE

TV Control Panel Access

- Switch "Off" the main supply to the TV.
- Wait for about 30 seconds.
- Press and hold the **PR** and **VOL-** on the projector keypad, switch "On" the main supply to the TV.
- Once finished, the Main Service Menu will appear on the screen of the TV.



Service Menu: SUBCH, VALUE, MODE, ID, CURSOR, ARROW, D-QUIT, TIME, SETUP, SECURITY, VIDEO, SERVICE, COMPREHENSIVE

Navigation: **UP** V. **DOWN** V. **SELECT**

Note:

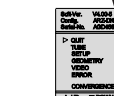
- The main menu function is not available.
- The lock function (PIN Number) is optional.
- With OSD on, the OSD menu items are displayed.
- SCART Function can be switching on/off as optional.
- AUT. LOCK WSS select, EPG and Channel functions are available.
- Automatic standby mode switching functions (no conditional use allowed).
- Brightness, Colour and Contrast are set to factory settings.
- Contrast setting can be in 1000 divisions.
- Automatic Input mode is selected.
- Normal and Zoom are reset to factory default.

MODE SERVICE **F**

I ACCES AU MODE SERVICE

Accès avec le clavier de télécommande

- Arrêter le TV avec la touche **MA**.
- Tout en appuyant sur les touches **PR**-et **VOL-**, mettre le TV en standby à l'aide de la touche **MA**.
- Maintenir appuyées les touches **PR**-et **VOL-**, la mise est entré.



Service Menu: SUBCH, VALUE, MODE, ID, CURSOR, ARROW, D-QUIT, TIME, SETUP, SECURITY, VIDEO, SERVICE, COMPREHENSIVE

Navigation: **UP** V. **DOWN** V. **SELECT**

Note:

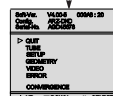
- En mode service:
- La verrouillage parental est effectif (reversible).
- La fonction de verrouillage PIN number n'est pas possible.
- Les paramètres de la ligne sont mémorisés et sont activables.
- La fonction de SCART est activable en option.
- La fonction de détection WSS, EPG et la Vidéolock ne sont pas disponibles.
- Les valeurs de réglage vidéo sont affectées au contraste, à la luminosité et à la saturation.
- Le contraste est réglé à sa valeur maximale.
- La luminosité contrast est au niveau par défaut.
- Le mode d'opération en Standby est réglé selon les usages.
- Access to Input options.

SERVICE - MODE **D**

I EINSTIEG IN DEN SERVICE MODE

Zugriff über die Taste der Fernbedienung

- Powerquell über die EIN/AUS-Taste ausschalten.
- Überprüfen Sie Tasten **PR**-und **VOL-** drücken und den TV über die EIN/AUS-Taste einschalten.
- Die Taste **PR**-und **VOL-** gedrückt halten.



Service Menu: SUBCH, VALUE, MODE, ID, CURSOR, ARROW, D-QUIT, TIME, SETUP, SECURITY, VIDEO, SERVICE, COMPREHENSIVE

Navigation: **UP** V. **DOWN** V. **SELECT**

Anmerkung:

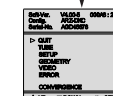
- Im SERVICE-MODE:
- Die Sperre Funktion (PIN-Nummer) ist optional und die Modusfunktion gebildet (reversibel).
- Die Funktion der Sperre PIN-Nummer ist nicht möglich.
- Die Parameter der Linie sind gespeichert und aktivierbar.
- Die Funktion der SCART-Funktion ist aktivierbar in Option.
- Die Funktion der WSS, EPG und die Videolock sind nicht verfügbar.
- Die Videoeinstellungswerte sind auf Kontrast, Helligkeit und Sättigung zu übertragen.
- Die Kontrasteinstellung ist auf den maximalen Wert.
- Die Helligkeit und Sättigung sind auf den Standardwert.
- Die Standby-Funktion wird nach dem Einschalten des Fernsehers wieder aktiviert.
- Die Standby-Funktion wird nach dem Einschalten des Fernsehers wieder aktiviert.

SERVICE - MODE **I**

I ACCESSO AL SERVICE MODE

Indirizzo comando da telecomando

- Spegnere il TV mediante il pulsante ON/OFF.
- Premere il tasto PR e VOL- appoggiando il TV con il pulsante ON/OFF.
- Premere i pulsanti PR e VOL-.



Service Menu: SUBCH, VALUE, MODE, ID, CURSOR, ARROW, D-QUIT, TIME, SETUP, SECURITY, VIDEO, SERVICE, COMPREHENSIVE

Navigation: **UP** V. **DOWN** V. **SELECT**

Note:

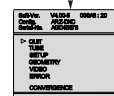
- Nel servizio modo:
- La funzione Blocco (Numero Pin) è valore opzionale e la funzione Blocco Remota è implementata.
- La funzione di blocco PIN number non è possibile.
- La funzione di programmazione della linea è memorizzata e può essere attivata.
- La funzione di SCART è attivabile in opzione.
- La funzione di WSS, EPG e la funzione di Video-lock sono non disponibili.
- Le impostazioni video sono trasferite al contrasto, alla luminosità e alla saturazione.
- Il contrasto è impostato al suo valore massimo.
- La luminosità e la saturazione sono impostate sui valori predefiniti.
- La funzione di Standby viene attivata dopo l'accensione del televisore.
- La funzione di Standby viene attivata dopo l'accensione del televisore.

MODO SERVICIO **E**

I ACCESO AL MODO SERVICIO

Acceso por medio del TV

- Apague la TV con el botón **MARCHA/PARADA**.
- Pulse los botones **PR** - y **VOL-** - y sin soltarlos pulse la tecla **MARCHA/PARADA**.
- Libere los botones **PR** - y **VOL-** .



Service Menu: SUBCH, VALUE, MODE, ID, CURSOR, ARROW, D-QUIT, TIME, SETUP, SECURITY, VIDEO, SERVICE, COMPREHENSIVE

Navigation: **UP** V. **DOWN** V. **SELECT**

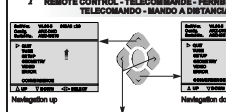
Note:

- En modo servicio:
- Si ignora la función de bloqueo y se instala la función "control remoto".
- En modo servicio:
- La función de bloqueo PIN number no es posible.
- La función de programación de línea es memorizada y puede ser activada.
- La función de SCART es activable en opción.
- La función de WSS, EPG y la función de Video-lock son no disponibles.
- Las configuraciones de video se transfieren al contraste, a la luminosidad y a la saturación.
- El contraste está ajustado a su valor máximo.
- La luminosidad y la saturación se ajustan a los valores de fábrica.
- La función de Standby se activa después de encender el televisor.
- La función de Standby se activa después de encender el televisor.

II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE - NAVIGATION IN SERVICE MODE - OPZIONI NEL SERVICE MODE - SUBMENU EN MODO SERVICIO

I REMOTE CONTROL - TELECOMANDO - FERNSEHGERÄT - COMANDI DEL TELEVISIONE -

TELECOMANDO - MANDO A DISTANZA



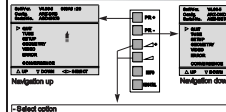
Navigation up: **UP** V. **DOWN** V. **SELECT**

Navigation down: **DOWN** V. **UP** V. **SELECT**

Selected option:

- Option available
- Selezione funzione
- Selezione opzione
- "Change" value
- "Wart" "User"
- "Channel" value
- "Cable" value

2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISIONE -



Navigation up: **UP** V. **DOWN** V. **SELECT**

Navigation down: **DOWN** V. **UP** V. **SELECT**

Selected option:

- Option available
- "Change" value
- "Wart" "User"
- "Channel" value
- "Cable" value
- Selezione funzione
- Selezione opzione

3 STORING VALUES IN MEMORY - MEMORIZAZIONE DEI VALORI - SPECIFICAZIONI PER I MENU - MEMORIZAZIONE DEI VALORI - VALORES ALMACENADOS EN LA MEMORIA

Change page - Cambiament de page - Blattwechsel - Cambio Pagina - Cambio de página

End of page / Fin de page / Ende der Seite / Fine della pagina / Fin de página

Beginning of Page / Inicio de página / Beginn der Seite / Inizio della pagina / Inicio de página

Storing Page / Memoria de página / Speicher der Seite / Memoria de página

ROM Default ⇒ All the default values of a page is not stored in RAM. L'ensemble des valeurs par défaut d'une page courante est chargé en RAM. Identifica Standardwerte der aktuellen Seite werden in den RAM geladen.

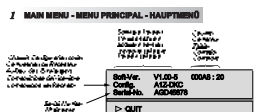
RAM Default ⇒ All the default values of a page is not stored in RAM. L'ensemble des valeurs par défaut d'une page courante est chargé en RAM. Identifica Standardwerte der aktuellen Seite werden in den RAM geladen.

Note:

- When a storing page finishes in the page, the following page is displayed. When a page is displayed, all the values in the page are stored in RAM.
- The menu leaves the page when the cursor reaches the arrow.
- When the cursor is in the right side, the page is stored in RAM.
- Cursor reach **←** or **→** ⇒ All the values in the page are stored in RAM.
- Cursor **←** or **→** ⇒ All the values in the page are stored in RAM.
- Cursor **←** or **→** ⇒ All the values in the page are stored in RAM.

III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE - MENÜS IM SERVICE MODE

I MAIN MENU - MENU PRINCIPAL - HAUPTMENÜ



Channel: SUBCH, VALUE, MODE, ID, CURSOR, ARROW, D-QUIT, TIME, SETUP, SECURITY, VIDEO, SERVICE, COMPREHENSIVE

Navigation: **UP** V. **DOWN** V. **SELECT**

2 TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURATION DEL TV - CONFIGURACION DEL TV

Config. ASLORD

Channel 1: Tube type: e4a; e4b; e4c; e4d; e4e; e4f; e4g; e4h; e4i; e4j; e4k; e4l; e4m; e4n; e4o; e4p; e4q; e4r; e4s; e4t; e4u; e4v; e4w; e4x; e4y; e4z; e4aa; e4ab; e4ac; e4ad; e4ae; e4af; e4ag; e4ah; e4ai; e4aj; e4ak; e4al; e4am; e4an; e4ao; e4ap; e4aq; e4ar; e4as; e4at; e4au; e4av; e4aw; e4ax; e4ay; e4az; e4ba; e4bb; e4bc; e4bd; e4be; e4bf; e4bg; e4bh; e4bi; e4bj; e4bk; e4bl; e4bm; e4bn; e4bo; e4bp; e4bq; e4br; e4bs; e4bt; e4bu; e4bv; e4bw; e4bx; e4by; e4bz; e4ca; e4cb; e4cc; e4cd; e4ce; e4cf; e4cg; e4ch; e4ci; e4cj; e4ck; e4cl; e4cm; e4cn; e4co; e4cp; e4cq; e4cr; e4cs; e4ct; e4cu; e4cv; e4cw; e4cx; e4cy; e4cz; e4da; e4db; e4dc; e4dd; e4de; e4df; e4dg; e4dh; e4di; e4dj; e4dk; e4dl; e4dm; e4dn; e4do; e4dp; e4dq; e4dr; e4ds; e4dt; e4du; e4dv; e4dw; e4dx; e4dy; e4dz; e4ea; e4eb; e4ec; e4ed; e4ee; e4ef; e4eg; e4eh; e4ei; e4ej; e4ek; e4el; e4em; e4en; e4eo; e4ep; e4eq; e4er; e4es; e4et; e4eu; e4ev; e4ew; e4ex; e4ey; e4ez; e4fa; e4fb; e4fc; e4fd; e4fe; e4ff; e4fg; e4fh; e4fi; e4fj; e4fk; e4fl; e4fm; e4fn; e4fo; e4fp; e4fq; e4fr; e4fs; e4ft; e4fu; e4fv; e4fw; e4fx; e4fy; e4fz; e4ga; e4gb; e4gc; e4gd; e4ge; e4gf; e4gg; e4gh; e4gi; e4gj; e4gk; e4gl; e4gm; e4gn; e4go; e4gp; e4gq; e4gr; e4gs; e4gt; e4gu; e4gv; e4gw; e4gx; e4gy; e4gz; e4ha; e4hb; e4hc; e4hd; e4he; e4hf; e4hg; e4hh; e4hi; e4hj; e4hk; e4hl; e4hm; e4hn; e4ho; e4hp; e4hq; e4hr; e4hs; e4ht; e4hu; e4hv; e4hw; e4hx; e4hy; e4hz; e4ia; e4ib; e4ic; e4id; e4ie; e4if; e4ig; e4ih; e4ii; e4ij; e4ik; e4il; e4im; e4in; e4io; e4ip; e4iq; e4ir; e4is; e4it; e4iu; e4iv; e4iw; e4ix; e4iy; e4iz; e4ja; e4jb; e4jc; e4jd; e4je; e4jf; e4jg; e4jh; e4ji; e4jj; e4jk; e4jl; e4jm; e4jn; e4jo; e4jp; e4jq; e4jr; e4js; e4jt; e4ju; e4jv; e4jw; e4jx; e4jy; e4jz; e4ka; e4kb; e4kc; e4kd; e4ke; e4kf; e4kg; e4kh; e4ki; e4kj; e4kl; e4km; e4kn; e4ko; e4kp; e4kq; e4kr; e4ks; e4kt; e4ku; e4kv; e4kw; e4kx; e4ky; e4kz; e4la; e4lb; e4lc; e4ld; e4le; e4lf; e4lg; e4lh; e4li; e4lj; e4lk; e4ll; e4lm; e4ln; e4lo; e4lp; e4lq; e4lr; e4ls; e4lt; e4lu; e4lv; e4lw; e4lx; e4ly; e4lz; e4ma; e4mb; e4mc; e4md; e4me; e4mf; e4mg; e4mh; e4mi; e4mj; e4mk; e4ml; e4mm; e4mn; e4mo; e4mp; e4mq; e4mr; e4ms; e4mt; e4mu; e4mv; e4mw; e4mx; e4my; e4mz; e4na; e4nb; e4nc; e4nd; e4ne; e4nf; e4ng; e4nh; e4ni; e4nj; e4nk; e4nl; e4nm; e4nn; e4no; e4np; e4nq; e4nr; e4ns; e4nt; e4nu; e4nv; e4nw; e4nx; e4ny; e4nz; e4oa; e4ob; e4oc; e4od; e4oe; e4of; e4og; e4oh; e4oi; e4oj; e4ok; e4ol; e4om; e4on; e4oo; e4op; e4oq; e4or; e4os; e4ot; e4ou; e4ov; e4ow; e4ox; e4oy; e4oz; e4pa; e4pb; e4pc; e4pd; e4pe; e4pf; e4pg; e4ph; e4pi; e4pj; e4pk; e4pl; e4pm; e4pn; e4po; e4pp; e4pq; e4pr; e4ps; e4pt; e4pu; e4pv; e4pw; e4px; e4py; e4pz; e4qa; e4qb; e4qc; e4qd; e4qe; e4qf; e4qg; e4qh; e4qi; e4qj; e4qk; e4ql; e4qm; e4qn; e4qo; e4qp; e4qq; e4qr; e4qs; e4qt; e4qu; e4qv; e4qw; e4qx; e4qy; e4qz; e4ra; e4rb; e4rc; e4rd; e4re; e4rf; e4rg; e4rh; e4ri; e4rj; e4rk; e4rl; e4rm; e4rn; e4ro; e4rp; e4rq; e4rr; e4rs; e4rt; e4ru; e4rv; e4rw; e4rx; e4ry; e4rz; e4sa; e4sb; e4sc; e4sd; e4se; e4sf; e4sg; e4sh; e4si; e4sj; e4sk; e4sl; e4sm; e4sn; e4so; e4sp; e4sq; e4sr; e4ss; e4st; e4su; e4sv; e4sw; e4sx; e4sy; e4sz; e4ta; e4tb; e4tc; e4td; e4te; e4tf; e4tg; e4th; e4ti; e4tj; e4tk; e4tl; e4tm; e4tn; e4to; e4tp; e4tq; e4tr; e4ts; e4tt; e4tu; e4tv; e4tw; e4tx; e4ty; e4tz; e4ua; e4ub; e4uc; e4ud; e4ue; e4uf; e4ug; e4uh; e4ui; e4uj; e4uk; e4ul; e4um; e4un; e4uo; e4up; e4uq; e4ur; e4us; e4ut; e4uu; e4uv; e4uw; e4ux; e4uy; e4uz; e4va; e4vb; e4vc; e4vd; e4ve; e4vf; e4vg; e4vh; e4vi; e4vj; e4vk; e4vl; e4vm; e4vn; e4vo; e4vp; e4vq; e4vr; e4vs; e4vt; e4vu; e4vv; e4vw; e4vx; e4vy; e4vz; e4wa; e4wb; e4wc; e4wd; e4we; e4wf; e4wg; e4wh; e4wi; e4wj; e4wk; e4wl; e4wm; e4wn; e4wo; e4wp; e4wq; e4wr; e4ws; e4wt; e4wu; e4wv; e4ww; e4wx; e4wy; e4wz; e4xa; e4xb; e4xc; e4xd; e4xe; e4xf; e4xg; e4xh; e4xi; e4xj; e4xk; e4xl; e4xm; e4xn; e4xo; e4xp; e4xq; e4xr; e4xs; e4xt; e4xu; e4xv; e4xw; e4xx; e4xy; e4xz; e4ya; e4yb; e4yc; e4yd; e4ye; e4yf; e4yg; e4yh; e4yi; e4yj; e4yk; e4yl; e4ym; e4yn; e4yo; e4yp; e4yq; e4yr; e4ys; e4yt; e4yu; e4yv; e4yw; e4yx; e4yy; e4yz; e4za; e4zb; e4zc; e4zd; e4ze; e4zf; e4zg; e4zh; e4zi; e4zj; e4zk; e4zl; e4zm; e4zn; e4zo; e4zp; e4zq; e4zr; e4zs; e4zt; e4zu; e4zv; e4zw; e4zx; e4zy; e4zz; e4aa; e4ab; e4ac; e4ad; e4ae; e4af; e4ag; e4ah; e4ai; e4aj; e4ak; e4al; e4am; e4an; e4ao; e4ap; e4aq; e4ar; e4as; e4at; e4au; e4av; e4aw; e4ax; e4ay; e4az; e4ba; e4bb; e4bc; e4bd; e4be; e4bf; e4bg; e4bh; e4bi; e4bj; e4bk; e4bl; e4bm; e4bn; e4bo; e4bp; e4bq; e4br; e4bs; e4bt; e4bu; e4bv; e4bw; e4bx; e4by; e4bz; e4ca; e4cb; e4cc; e4cd; e4ce; e4cf; e4cg; e4ch; e4ci; e4cj; e4ck; e4cl; e4cm; e4cn; e4co; e4cp; e4cq; e4cr; e4cs; e4ct; e4cu; e4cv; e4cw; e4cx; e4cy; e4cz; e4da; e4db; e4dc; e4dd; e4de; e4df; e4dg; e4dh; e4di; e4dj; e4dk; e4dl; e4dm; e4dn; e4do; e4dp; e4dq; e4dr; e4ds; e4dt; e4du; e4dv; e4dw; e4dx; e4dy; e4dz; e4ea; e4eb; e4ec; e4ed; e4ee; e4ef; e4eg; e4eh; e4ei; e4ej; e4ek; e4el; e4em; e4en; e4eo; e4ep; e4eq; e4er; e4es; e4et; e4eu; e4ev; e4ew; e4ex; e4ey; e4ez; e4fa; e4fb; e4fc; e4fd; e4fe; e4ff; e4fg; e4fh; e4fi; e4fj; e4fk; e4fl; e4fm; e4fn; e4fo; e4fp; e4fq; e4fr; e4fs; e4ft; e4fu; e4fv; e4fw; e4fx; e4fy; e4fz; e4ga; e4gb; e4gc; e4gd; e4ge; e4gf; e4gg; e4gh; e4gi; e4gj; e4gk; e4gl; e4gm; e4gn; e4go; e4gp; e4gq; e4gr; e4gs; e4gt; e4gu; e4gv; e4gw; e4gx; e4gy; e4gz; e4ha; e4hb; e4hc; e4hd; e4he; e4hf; e4hg; e4hh; e4hi; e4hj; e4hk; e4hl; e4hm; e4hn; e4ho; e4hp; e4hq; e4hr; e4hs; e4ht; e4hu; e4hv; e4hw; e4hx; e4hy; e4hz; e4ia; e4ib; e4ic; e4id; e4ie; e4if; e4ig; e4ih; e4ii; e4ij; e4ik; e4il; e4im; e4in; e4io; e4ip; e4iq; e4ir; e4is; e4it; e4iu; e4iv; e4iw; e4ix; e4iy; e4iz; e4ja; e4jb; e4jc; e4jd; e4je; e4jf; e4jg; e4jh; e4ji; e4jj; e4jk; e4jl; e4jm; e4jn; e4jo; e4jp; e4jq; e4jr; e4js; e4jt; e4ju; e4jv; e4jw; e4jx; e4jy; e4jz; e4ka; e4kb; e4kc; e4kd; e4ke; e4kf; e4kg; e4kh; e4ki; e4kj; e4kl; e4km; e4kn; e4ko; e4kp; e4kq; e4kr; e4ks; e4kt; e4ku; e4kv; e4kw; e4kx; e4ky; e4kz; e4la; e4lb; e4lc; e4ld; e4le; e4lf; e4lg; e4lh; e4li; e4lj; e4lk; e4ll; e4lm; e4ln; e4lo; e4lp; e4lq; e4lr; e4ls; e4lt; e4lu; e4lv; e4lw; e4lx; e4ly; e4lz; e4ma; e4mb; e4mc; e4md; e4me; e4mf; e4mg; e4mh; e4mi; e4mj; e4mk; e4ml; e4mm; e4mn; e4mo; e4mp; e4mq; e4mr; e4ms; e4mt; e4mu; e4mv; e4mw; e4mx; e4my; e4mz; e4na; e4nb; e4nc; e4nd; e4ne; e4nf; e4ng; e4nh; e4ni; e4nj; e4nk; e4nl; e4nm; e4nn; e4no; e4np; e4nq; e4nr; e4ns; e4nt; e4nu; e4nv; e4nw; e4nx; e4ny; e4nz; e4oa; e4ob; e4oc; e4od; e4oe; e4of; e4og; e4oh; e4oi; e4oj; e4ok; e4ol; e4om; e4on; e4oo; e4op; e4oq; e4or; e4os; e4ot; e4ou; e4ov; e4ow; e4ox; e4oy; e4oz; e4pa; e4pb; e4pc; e4pd; e4pe; e4pf; e4pg; e4ph; e4pi; e4pj; e4pk; e4pl; e4pm; e4pn; e4po; e4pp; e4pq; e4pr; e4ps; e4pt; e4pu; e4pv; e4pw; e4px; e4py; e4pz; e4qa; e4qb; e4qc; e4qd; e4qe; e4qf; e4qg; e4qh; e4qi; e4qj; e4qk; e4ql; e4qm; e4qn; e4qo; e4qp; e4qq; e4qr; e4qs; e4qt; e4qu; e4qv; e4qw; e4qx; e4qy; e4qz; e4ra; e4rb; e4rc; e4rd; e4re; e4rf; e4rg; e4rh; e4ri; e4rj; e4rk; e4rl; e4rm; e4rn; e4ro; e4rp; e4rq; e4rr; e4rs; e4rt; e4ru; e4rv; e4rw; e4rx; e4ry; e4rz; e4sa; e4sb; e4sc; e4sd; e4se; e4sf; e4sg; e4sh; e4si; e4sj; e4sk; e4sl; e4sm; e4sn; e4so; e4sp; e4sq; e4sr; e4ss; e4st; e4su; e4sv; e4sw; e4sx; e4sy; e4sz; e4ta; e4tb; e4tc; e4td; e4te; e4tf; e4tg; e4th; e4ti; e4tj; e4tk; e4tl; e4tm; e4tn; e4to; e4tp; e4tq; e4tr; e4ts; e4tt; e4tu; e4tv; e4tw; e4tx; e4ty; e4tz; e4ua; e4ub; e4uc; e4ud; e4ue; e4uf; e4ug; e4uh; e4ui; e4uj; e4uk; e4ul; e4um; e4un; e4uo; e4up; e4uq; e4ur; e4us; e4ut; e4uu; e4uv; e4uw; e4ux; e4uy; e4uz; e4va; e4vb; e4vc; e4vd; e4ve; e4vf; e4vg; e4vh; e4vi; e4vj; e4vk; e4vl; e4vm; e4vn; e4vo; e4vp; e4vq; e4vr; e4vs; e4vt; e4vu; e4vv; e4vw; e4vx; e4vy; e4vz; e4wa; e4wb; e4wc; e4wd; e4we; e4wf; e4wg; e4wh; e4wi; e4wj; e4wk; e4wl; e4wm; e4wn; e4wo; e4wp; e4wq; e4wr; e4ws; e4wt; e4wu; e4wv; e4ww; e4wx; e4wy; e4wz; e4xa; e4xb; e4xc; e4xd; e4xe; e4xf; e4xg; e4xh; e4xi; e4xj; e4xk; e4xl; e4xm; e4xn; e4xo; e4xp; e4xq; e4xr; e4xs; e4xt; e4xu; e4xv; e4xw; e4xx; e4xy; e4xz; e4ya; e4yb; e4yc; e4yd; e4ye; e4yf; e4yg; e4yh; e4yi; e4yj; e4yk; e4yl; e4ym; e4yn; e4yo; e4yp; e4yq; e4yr; e4ys; e4yt; e4yu; e4yv; e4yw; e4yx; e4yy; e4yz; e4za; e4zb; e4zc; e4zd; e4ze; e4zf; e4zg; e4zh; e4zi; e4zj; e4zk; e4zl; e4zm; e4zn; e4zo; e4zp; e4zq; e4zr; e4zs; e4zt; e4zu; e4zv; e4zw; e4zx; e4zy; e4zz; e4aa; e4ab; e4ac; e4ad; e4ae; e4af; e4ag; e4ah; e4ai; e4aj; e4ak; e4al; e4am; e4an; e4ao; e4ap; e4aq; e4ar; e4as; e4at; e4au; e4av; e4aw; e4ax; e4ay; e4az; e4ba; e4bb; e4bc; e4bd; e4be; e4bf; e4bg; e4bh; e4bi; e4bj; e4bk; e4bl; e4bm; e4bn; e4bo; e4bp; e4bq; e4br; e4bs; e4bt; e4bu; e4bv; e4bw; e4bx; e4by; e4bz; e4ca; e4cb; e4cc; e4cd; e4ce; e4cf; e4cg; e4ch; e4ci; e4cj; e4ck; e4cl; e4cm; e4cn; e4co; e4cp; e4cq; e4cr; e4cs; e4ct; e4cu; e4cv; e4cw; e4cx; e4cy; e4cz; e4da; e4db; e4dc; e4dd; e4de; e4df; e4dg; e4dh; e4di; e4dj; e4dk; e4dl; e4dm; e4dn; e4do; e4dp; e4dq; e4dr; e4ds; e4dt; e4du; e4dv; e4dw; e4dx; e4dy; e4dz; e4ea; e4eb; e4ec; e4ed; e4ee; e4ef; e4eg; e4eh; e4ei; e4ej; e4ek; e4el; e4em; e4en; e4eo; e4ep; e4eq; e4er; e4es; e4et; e4eu; e4ev; e4ew; e4ex; e4ey; e4ez; e4fa; e4fb; e4fc; e4fd; e4fe; e4ff; e4fg; e4fh; e4fi; e4fj; e4fk; e4fl; e4fm; e4fn; e4fo; e4fp; e4fq; e4fr; e4fs; e4ft; e4fu; e4fv; e4fw; e4fx; e4fy; e4fz; e4ga; e4gb; e4gc; e4gd; e4ge; e4gf; e4gg; e4gh; e4gi; e4gj; e4gk; e4gl; e4gm; e4gn; e4go; e4gp; e4gq; e4gr; e4gs; e4gt; e4gu; e4gv; e4gw; e4gx; e4gy; e4gz; e4ha; e4hb; e4hc; e4hd; e4he; e4hf; e4hg; e4hh; e4hi; e4hj; e4hk; e4hl; e4hm; e4hn; e4ho; e4hp; e4hq; e4hr; e4hs; e4ht; e4hu; e4hv; e4hw; e4hx; e4hy; e4hz; e4ia; e4ib; e4ic; e4id; e4ie; e4if; e4ig; e4ih; e4ii; e4ij; e4ik; e4il; e4im; e4in; e4io; e4ip; e4iq; e4ir; e4is; e4it; e4iu; e4iv; e4iw; e4ix; e4iy; e4iz; e4ja; e4jb; e4jc; e4jd; e4je; e4jf; e4jg; e4jh; e4ji; e4jj; e4jk; e4jl; e4jm; e4jn; e4jo; e4jp; e4jq; e4jr; e4js; e4jt; e4ju; e4jv; e4jw; e4jx; e4jy; e4jz; e4ka; e4kb; e4kc; e4kd; e4ke; e4kf; e4kg; e4kh; e4ki; e4kj; e4kl; e4km; e4kn; e4ko; e4kp; e4kq; e4kr; e4ks; e4kt; e4ku; e4kv; e4kw; e4kx; e4ky; e4kz; e4la; e4lb; e4lc; e4ld; e4le; e4lf; e4lg; e4lh; e4li; e4lj; e4lk; e4ll; e4lm; e4ln; e4lo; e4lp; e4lq; e4lr; e4ls; e4lt; e4lu; e4lv; e4lw; e4lx; e4ly; e4lz; e4ma; e4mb; e4mc; e4md; e4me; e4mf; e4mg; e4mh; e4mi; e4mj; e4mk; e4ml; e4mm; e4mn; e4mo; e4mp; e4mq; e4mr; e4ms; e4mt; e4mu; e4mv; e4mw; e4mx; e4my; e4mz; e4na; e4nb; e4nc; e4nd; e4ne; e4nf; e4ng; e4nh; e4ni; e4nj; e4nk; e4nl; e4nm; e4nn; e4no; e4np; e4nq; e4nr; e4ns; e4nt; e4nu; e4nv; e4nw; e4nx; e4ny; e4nz; e4oa; e4ob; e4oc; e4od; e4oe; e4of; e4og; e4oh; e4oi; e4oj; e4ok; e4ol; e4om; e4on; e4oo; e4op; e4oq; e4or; e4os; e4ot; e4ou; e4ov; e4ow; e4ox; e4oy; e4oz; e4pa; e4pb; e4pc; e4pd; e4pe; e4pf; e4pg; e4ph; e4pi; e4pj; e4pk; e4pl; e4pm; e4pn; e4po; e4pp; e4pq; e4pr; e4ps; e4pt; e4pu; e4pv; e4pw; e4px; e4py; e4pz; e4qa; e4qb; e4qc; e4qd; e4qe; e4qf; e4qg; e4qh; e4qi; e4qj; e4qk; e4ql; e4qm; e4qn; e4qo; e4qp; e4qq; e4qr; e4qs; e4qt; e4qu; e4qv; e4qw; e4qx; e4qy; e4qz; e4ra; e4rb; e4rc; e4rd; e4re; e4rf; e4rg; e4rh; e4ri; e4rj; e4rk; e4rl; e4rm; e4rn; e4ro; e4rp; e4rq; e4rr; e4rs; e4rt; e4ru; e4rv; e4rw; e4rx; e4ry; e4rz; e4sa; e4sb; e4sc; e4sd; e4se; e4sf; e4sg; e4sh; e4si; e4sj; e4sk; e4sl; e4sm; e4sn; e4so; e4sp; e4sq; e4sr; e4ss; e4st; e4su; e4sv; e4sw; e4sx; e4sy; e4sz; e4ta; e4tb; e4tc; e4td; e4te; e4tf; e4tg; e4th; e4ti; e4tj; e4tk; e4tl; e4tm; e4tn; e4to; e4tp; e4tq; e4tr; e4ts; e4tt; e4tu; e4tv; e4tw; e4tx; e4ty; e4tz; e4ua; e4ub; e4uc; e4ud; e4ue; e4uf; e4ug; e4uh; e4ui; e4uj; e4uk; e4ul; e4um; e4un; e4uo; e4up; e4uq; e4ur; e4us; e4ut; e4uu; e4uv; e4uw; e4ux; e4uy; e4uz; e4va; e4vb; e4vc; e4vd; e4ve; e4vf; e4vg; e4vh; e4vi; e4vj; e4vk; e4vl; e4vm; e4vn; e4vo; e4vp; e4vq; e4vr; e4vs; e4vt; e4vu; e4vv; e4vw; e4vx; e4vy; e4vz; e4wa; e4wb; e4wc; e4wd; e4we; e4wf; e4wg; e4wh; e4wi; e4wj; e4wk; e4wl; e4wm; e4wn; e4wo; e4wp; e4wq; e4wr; e4ws; e4wt; e4wu; e4wv; e4ww; e4wx; e4wy; e4wz; e4xa; e4xb; e4xc; e4xd; e4xe; e4xf; e4xg; e4xh; e4xi; e4xj; e4xk; e4xl; e4xm; e4xn; e4xo; e4xp; e4xq; e4xr; e4xs; e4xt; e4xu; e4xv; e4xw; e4xx; e4xy; e4xz; e4ya; e4yb; e4yc; e4yd; e4ye; e4yf; e4yg; e4yh; e4yi; e4yj; e4yk; e4yl; e4ym; e4yn; e4yo; e4yp; e4yq; e4yr; e4ys; e4yt; e4yu; e4yv; e4yw; e4yx; e4yy; e4yz; e4za; e4zb; e4zc; e4zd; e4ze; e4zf; e4zg; e4zh; e4zi; e4zj; e4zk; e4zl; e4zm; e4zn; e4zo; e4zp; e4zq; e4zr; e4zs; e4zt; e4zu; e4zv; e4zw; e4zx; e4zy; e4zz; e4aa; e4ab; e4ac; e4ad; e4ae; e4af; e4ag; e4ah; e4ai; e4aj; e4ak; e4al; e4am; e4an; e4ao; e4ap; e4aq; e4ar; e4as; e4at; e4au; e4av; e4aw; e4ax; e4ay; e4az; e4ba; e4bb; e4bc; e4bd; e4be; e4bf; e4bg; e4bh; e4bi; e4bj; e4bk; e4bl; e4bm; e4bn; e4bo; e4bp; e4bq; e4br; e4bs; e4bt; e4bu; e4bv; e4bw; e4bx; e4by; e4bz; e4ca; e4cb; e4cc

ALIGNMENT PROCEDURE - PROCESSUS DE REGLAGES - ABGLEICH - VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - PROCEDIMIENTO DE ALINEACION

TYPE	Return	TP 43L
Return	Setup	
Store	Clear Prog.	
Restore	Clear Prog.	
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

SETUP	Test Lang.	1
Return	IR Down	
Store	IR Down	
Restore	IR Down	
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	System Voltage	-50
Return	H-Holdy	-20
Store	H-Holdy	-20
Restore	H-Holdy	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	V-Linearity	-50
Return	H-Position	-20
Store	H-Position	-20
Restore	H-Position	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

ERROR	Basic Error Codes	<>
Return	Basic Error Codes	<>
Store	Basic Error Codes	<>
Restore	Basic Error Codes	<>
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

TYPE	Return	TP 43L
Return	Setup	
Store	Clear Prog.	
Restore	Clear Prog.	
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

SETUP	Test Lang.	1
Return	IR Down	
Store	IR Down	
Restore	IR Down	
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	System Voltage	-50
Return	H-Holdy	-20
Store	H-Holdy	-20
Restore	H-Holdy	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	V-Linearity	-50
Return	H-Position	-20
Store	H-Position	-20
Restore	H-Position	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

ERROR	Basic Error Codes	<>
Return	Basic Error Codes	<>
Store	Basic Error Codes	<>
Restore	Basic Error Codes	<>
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

SELECT

CHANG

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

CHANG

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

CHANG

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

CHANG

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

CHANG

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

CHANG

Return

Setup

Clear Prog.

Clear Prog.

WBS

EPG / AV LNK

V

Δ UP

▽ DOWN

CHANG

GEOMETRY	System Voltage	-50
Return	H-Holdy	-20
Store	H-Holdy	-20
Restore	H-Holdy	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	V-Linearity	-50
Return	H-Position	-20
Store	H-Position	-20
Restore	H-Position	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	System Voltage	-50
Return	H-Holdy	-20
Store	H-Holdy	-20
Restore	H-Holdy	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

GEOMETRY	V-Linearity	-50
Return	H-Position	-20
Store	H-Position	-20
Restore	H-Position	-20
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

VIDEO	Gain	100
Return	Gain	100
Store	Gain	100
Restore	Gain	100
	WBS	
	EPG / AV LNK	
	V	
	Δ UP	▽ DOWN

ERROR CODES

- 11 Audio AMP Processor overload error
- 12 Center Audio AMP Processor overload error
- 13 Audio AMP Processor overload error (Dolby)
- 14 Video AMP Processor overload error (Dolby)
- 15 Video AMP Processor overload error (Dolby)
- 16 Video AMP Processor overload error (Dolby)
- 17 Video AMP Processor overload error (Dolby)
- 18 Video AMP Processor overload error (Dolby)
- 19 Video AMP Processor overload error (Dolby)
- 20 Video AMP Processor overload error (Dolby)
- 21 Video AMP Processor overload error (Dolby)
- 22 Video AMP Processor overload error (Dolby)
- 23 Video AMP Processor overload error (Dolby)
- 24 Video AMP Processor overload error (Dolby)
- 25 Video AMP Processor overload error (Dolby)
- 26 Video AMP Processor overload error (Dolby)
- 27 Video AMP Processor overload error (Dolby)
- 28 Video AMP Processor overload error (Dolby)
- 29 Video AMP Processor overload error (Dolby)
- 30 Video AMP Processor overload error (Dolby)
- 31 Video AMP Processor overload error (Dolby)
- 32 Video AMP Processor overload error (Dolby)
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GEOMETRY MODE ALIGNMENT

4/3 picture tube

Signal: 4/3 test pattern



Note: GEOMETRY - V-Amplitude
Vertical Interface - Entrelacement Vertical - Vertical Interface
Vertical Interface - Entrelacement vertical

- Check the vertical interface.
- Control the vertical interface.
- Control the vertical interface.
- Control the vertical interface.

If the interface is not correct, adjust the VAMP by 1/2 steps (+ or -) to achieve the best interface.

If the interface is not correct, adjust the VAMP by 1/2 steps (+ or -) to achieve the best interface.

If the interface is not correct, adjust the VAMP by 1/2 steps (+ or -) to achieve the best interface.

IMPORTANT

Factory setting values are indicated on a label inside the optical block housing. These should be used in preference to the default values.

Les valeurs de réglages usine sont indiquées sur une étiquette située à l'intérieur du boîtier optique. Elles sont à utiliser de préférence aux valeurs par défaut.

Die Fabrik-Einstellwerte sind auf einem Aufkleber im Innern des optischen Blocks angegeben. Diese sollten bei den Einstellungen bevorzugt werden.

I valori di regolazione di fabbrica vengono indicati su una etichetta collocata all'interno del contenitore del blocco ottico.

Les valeurs de réglages usine sont indiquées sur une étiquette placée au intérieur du boîtier optique. Elles sont à utiliser de préférence aux valeurs par défaut.

GEOMETRIE / CONVERGENCE ADJUSTMENT - GEOMETRIE / REGLAGES DES CONVERGENCES / GEOMETRIE / KONVERGENZ ABGLEICH - GEOMETRIA / REGOLAZIONE CONVERGENZA - GEOMETRIA / AJUSTE DE CONVERGENCIA ADJUSTMENTS LEVELS

For every point on the screen, each of the three beams has a specific correction possibility in both horizontal and vertical planes. To achieve this, three levels of adjustment are available in the Service Mode. The unit is also equipped with an alignment grid pattern generator incorporated on the convergence circuit board.

Tous niveaux de réglage sont accessible dans le mode service et permettent à partir d'une mire de quadrillage générale per les niveaux de convergence d'apporter une correction horizontale et verticale aux trois faisceaux de couleur.

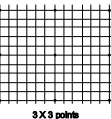
Für jeden Punkt des Bildschirms und für jeden der drei Kathodenstrahlen hat eine spezielle Korrektur sowohl horizontal als auch vertikal, möglich, im Service-Mode drei Ebenen (Level) für den Abgleich der Konvergenz verfügbar. Das Gitterbild wird von der Konvergenzschaltung erzeugt.

Per ogni punto dello schermo, ognuno dei tre raggi ha una specifica possibilità di correzione. In entrambi i piani orizzontale e verticale. A questo scopo, sono disponibili tre livelli di regolazione in Service Mode. L'unità, inoltre, dispone di un generatore di griglia per l'allineamento, incorporato sulla piastrina convergenza.

Tos niveles de ajuste están disponible en modo Servicio y permiten a partir de una mira de cuadrícula general para los circuitos de convergencia, efectuar correcciones específicas en los planos horizontal y vertical para cada uno de los tres haces.

LEVEL 1

9 points for Green and Blue



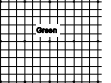
Factory adjust reserved
Réserve us réglages Usiner
Fabrik einstellungen.
Regolazione riservata alla ditta
Ajustes reservados para fábrica

MUST NOT BE USED
NE DOIT PAS ETRE UTILISE
NUR NICHT VERANDERT
WERDEN
NO DEBE ESSERE USATO
NO DEBE SER USADO

LEVEL 2

Large and general corrections
Corrections générales élargies
Gründereinstellungen
Corrections generali estese
Correcciones generalis y extendidas

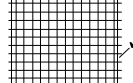
16 or 25 points



Green

Red and Blue

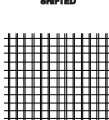
165 points for Green, Red, Blue



Non Visible Area

DESCRIPTION OF POSSIBLE CONVERGENCE PROBLEMS

RED AND BLUE PICTURE SHIFTED



RED AND BLUE PICTURE SHIFTED
Status Adjustment
- Select "CONVERGENCE" in the Install Menu.
- Correct the shift using the "NAVIGATION" buttons on the RCU.



- If the required alignment falls outside the central area of the benchtop, set the benchtop central and make the adjustments using the magnetic centring rings on the red and blue tubes.
- Firstly, untuck the lightly glued centring rings and then make the necessary adjustments.
- Cross aligned the rings must be locked using a light weight plus or minus in order that subsequent adjustments can be made.

IMAGE ROUGE ET BLEU DECALEES

Réglage Statique
- Sélectionner convergence dans le menu d'installation.
- Corriger le décalage avec les touches de navigation, sur le RCU.



- Si le réglage nécessaire est loin de la position centrale des bords de la grille, a considérez que quel il est position centrale et corriger avec les anneaux de centrage magnétique des tubes correspondants.
- Débloquez préalablement les anneaux fixés par un collage léger.
- A l'achèvement des réglages, bloquez les anneaux avec une colle ou laque pas trop forte pour autoriser une relouche ultérieure.

ROTES UND BLAUS BILD SIND VERSCHOBEN

Statische Einstellung
- Wählen Sie im Installationsmenü "KONVERGENZ".
- Stellen Sie die beide Farbbilder mit den Pfeiltasten ein.



- Sollte der Einstellbereich zu klein sein oder nicht ausreichen, empfehlen wir alle Anzeigelinien auf Mittelstellung zu bringen und eine Korrektur der Farbbilder mittels der Zentriermagnete der jeweiligen Röhre vorzunehmen.
- Lösen Sie hierzu zuerst die Verklebung der Ringe und nehmen dann die Einstellungen vor. Danach können die Ringe wieder so mit einem Kleber oder mit Fichterschnitzlack, das ein spätere Abgleich möglich ist.

IMMAGINE ROSSA E BLU SPOSTATA.

Riposizione statica
- Selezionare Convergence nel menu Install.
- Correggere lo spostamento utilizzando i tasti numerici, sul RCU.



- Se la regolazione ottimale è lontana dalla posizione centrale della griglia di taratura, se considerate come qual il posizione centrale ed effettuare la correzione con gli anelli di centratura magnetici del tubo corrispondente.
- Sbloccare inizialmente gli anelli leggeramente incollati.
- Al completamento dei regolaggi, bloccare con una lacca o un adesivo non troppo forte per rendere possibile successive ritocchi.

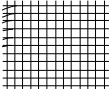
IMAGEN ROJA Y AZUL DESPLAZADA.

Ajuste estático
- Seleccionar Convergencia en el menú Install.
- Corregir el desplazamiento con los botones de navegación, sobre el RCU.



- Si el ajuste necesario está lejos de la posición central de los grillos de taraje, se recomiendan situarse en la posición central y corregirlos con los anillos de centrado magnético de los tubos correspondientes.
- Desbloquez previamente los anillos fijados con un pegamento ligero.
- A continuación, fije de nuevo los anillos con un pegamento o una laca no muy fuerte para permitir un ajuste posterior.

BORDERS OR SMALL AREAS ARE VERY POORLY ALIGNED



CENTRAL AREA IS CORRECT, BORDERS OR A SMALL AREA ARE VERY POORLY ALIGNED

A - GREEN geometry is correct:
- Only adjust the Red and Blue geometry using Level 3 of the convergence menu, don't touch the green geometry!
B - GREEN needs a small adjustment:
- First adjust the Green geometry, then align the Red and Blue geometry using Level 3 convergence menu.

CENTRE CORRECT, BORDERS OR PETITE SURFACE NON CORRECTE

A - VERT a une géométrie correcte:
- Régler seulement la Rouge et Bleu avec Level 3, ne pas toucher au vert!
B - VERT nécessite une légère correction:
- Régler le Vert avec Level 3 et corriger ensuite la Rouge et le Bleu avec Level 3.

DIE BLIMETTE IST IN ORDNUNG, SCHLECHTE DECKUNG AN DEN BILDÄNDEREN ODER IN KLEINEREN FLÄCHEN

A - GRÜN-Geometrie ist in Ordnung:
- Gleichen Sie nur Rot und Blau im Level 3 ab, berühren nicht vertikal!
B - GRÜN benötigt geringe Korrekturen:
- Gleichen Sie Grün im Level 3 nach und korrigieren dann Blau im Level 3.

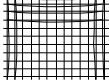
L'AREA CENTRALE E' CORRETTA, LOS BORDES O UN AREA PEQUENA NO SON CORRECTOS

A - La geometría del Verde es correcta:
- Regule solo Rosso e Blu utilizzando Level 3, non toccare il Verde!
B - Verde necessita piccole modifiche anche per il Verde:
- Regolare il Verde perché il sovrappone a Rosso e Blu utilizzando Level 3 quindi toccare il Verde!

EL AREA CENTRAL ES CORRECTA, LOS BORDES O UN AREA PEQUEÑA NO SON CORRECTOS

A - Verde tiene una geometría correcta:
- Ajuste sólo rojo y azul con el nivel 3, no ajuste verde!
B - Verde también necesita una pequeña corrección:
- Ajuste verde con el nivel 3 y después corrijá rojo y azul con el mismo nivel 3.

SMALL ADJUSTMENTS ARE NECESSARY EVERYWHERE, GREEN GEOMETRY IS CORRECT



PETITES CORRECTIONS NECESSAIRES EN TOUTS POINTS DE L'ECRAN, GEOMETRIE DU VERT CORRECTE

Quelques lignes ont une convergence incorrecte mais le Vert a une géométrie correcte.
- Régler la Rouge et le Bleu avec Level 2.
- Corriger les bords si nécessaire avec Level 3, ne pas toucher au Vert!

OBSTÄL NACH KLEINE EINSTELLUNGEN NOTWENDIG, DIE GRÜN-GEOMETRIE IST IN ORDNUNG

Einige Linien sind nicht in Konvergenz, die Geometrie von Grün ist aber in Ordnung.
- Gleichen Sie Rot und Blau im Level 2 ab.
- Gleichen Sie die Bildränder gegebenenfalls im Level 3 nach, berühren nicht vertikal!

SE NECESSARIO APORTARE CORREZIONI PICCOLE MODIFICARE LA GEOMETRIA DEL VERDE E' CORRETTA.

Alcune linee non sono in convergenza ma la geometria del Verde è corretta.
- Regolare Rosso e Blu utilizzando Level 2.
- Se necessario, correggere i bordi utilizzando Level 3, non toccare il Verde!

SE NECESARIO PEQUEÑOS AJUSTES EN TODO, LA GEOMETRÍA VERDE ES CORRECTA

Algunas líneas carecen de convergencia, pero la geometría verde es correcta.
- Regular rojo y azul con el nivel 2.
- Corrijá los bordes si es necesario con el nivel 3, no ajuste el Verde!

GREEN GEOMETRY IS POORLY ALIGNED



A - BLUE or RED, B - BLUE or ROUGE

A - Blue or Red: Enter the convergence menu Level 2 and press the YELLOW button on the RCU. The red, green and blue grids are displayed but only GREEN geometry can be aligned.
B - Blue or Rouge: Enter the Service Mode and select the GEOMETRY menu to adjust the alignment of the HV Amplifier and EHV Correction settings. If the geometry does not respond to adjustment then:
- Select convergence menu Level 2 and press the YELLOW button on the RCU to select Green (GRN) alignment routine.
- Check that the centre point of the green grid is steady central.
- Align the grid pattern borders exactly with the screen.
- Adjust the outer edge of the picture if necessary, using convergence menu Level 3.
- Align RED convergence using menu Level 2 and if necessary the borders with Level 3.
- Repeat the above process for BLUE alignment.

GEOMETRIE DU VERT NON CORRECTE

A - Géométrie du BLEU ou ROUGE correcte:
- Sélectionner Level 2 et utiliser la touche jaune de la télécommande. Les images Rouge, Vert et Bleu sont affichées mais la correction s'effectue sur le Vert.
B - Géométrie du VERT incorrecte:
- Sélectionner dans le mode service les réglages de géométrie HV et Correction EHV/Ouest.
- Régler la Géométrie.
Si la géométrie ne peut être corrigée:
- Sélectionner Level 2 pour le Vert (GRN).
- Contrôler la position du centre.
- Régler les bords externes de l'image avec Level 3 et si nécessaire.
- Corriger la convergence avec Level 2 puis ensuite avec Level 3 pour les bords si nécessaire.
- Répéter de même pour le Bleu.

ABGLEICH DER GRÜN-GEOMETRIE

A - Die BLAU-oder ROT-Geometrie ist in Ordnung:
- Gehen Sie in das Konvergenzmenü Level 2 und drücken Sie die gelbe Taste der Fernbedienung. Die rote, grüne und blaue Gitter werden angezeigt. Es läßt sich jedoch nur die Geometrie von GRÜN einstellen.
B - Grün die das grüne Gitter mit dem roten oder blauen zur Deckung. Zur Veranschaulichung des Abgleiches wählen Sie das oben beschriftete Gitter und drücken die Linse der anderen Farbe ab.
B - BLAU oder ROT nicht abgleichbar:
- Gehen Sie in Service Mode in das Menü "GEOMETRIE".
- Korrigieren Sie die HV-Amplitude und die EHV-Korrektur nachfolgend die Geometrieeinstellung richtig.
- Gehen Sie in das Konvergenzmenü Level 3 und drücken die GELBE Taste auf der Fernbedienung um GRÜN (GRN)-Abgleich zu wählen.
- Überprüfen Sie ob der Mittelpunkt des grünen Gitters in der richtigen Mitte des Bildschirms liegt.
- Stellen Sie die Ränder des Gitters extern mit Level 3 ein.
- Gegebenenfalls korrigieren Sie die Einstellungen der äußeren Ebenen im Konvergenzmenü Level 2.
- Wiederholen Sie diesen Abgleich mit BLAU.

LA GEOMETRIA DEL VERDE E' CORRETTA.

A - La geometria del BLU o del ROSSO è corretta:
- In Service Mode Geometry adjustment: amplizza HV (Orizzontale/Verticale) e East/West.
- Regolare la geometria.
Se la Geometria non è regolabile:
- Selezionare Level 2 per il Verde (GRN).
- Controllare che il centro è ben esattamente in centro.
- Allineare i bordi dell' intorno al bordo dello schermo.
- Se necessario, regolare la parte esterna dell'immagine utilizzando Level 3.
- Correggere il Rosso utilizzando Level 2 e, se necessario, Level 3 per i bordi.
- Ripetere la medesima procedura per il Blu.

LA GEOMETRÍA VERDE NO ES CORRECTA

A - AZUL o ROJO tienen una geometría correcta:
- Con el nivel 2, utilice el botón amarillo en el control remoto de visualización rojo, verde y azul, pero la corrección está en verde.
B - Ajuste rojo y azul con el nivel 2.
C - Corrija los bordes si es necesario con el nivel 3, no ajuste el Verde!
E - Ajuste la geometría.
Si esta geometría no se puede ajustar:
- Seleccionar el Nivel 2 para verde (GRN).
- Compruebe que el centro está situado exactamente en el centro.
- Realice los ajustes necesarios para que los bordes de la rejilla coincidan con los de la pantalla.
- Alinee la parte exterior de la imagen con el Nivel 3 si es necesario.
- Corrija rojo con el Nivel 2 y después con el Nivel 3 para los bordes si es necesario.
- Repita la misma operación para azul.

INFORMATION NOTE - INFORMATION - NOTA INFORMATIVA - NOTA DE INFORMACIÓN

CORRECTION OF BANDING EFFECT

The "banding effect" is a non-uniform area or streak on the screen, which can happen after convergence adjustments have been performed in Level 3. This effect can be caused by either - two horizontal lines being too close together (bright area) - two horizontal lines being too far apart (a dark area). The effect is most visible on a uniform picture (see diagram below).
Adjustment Procedure:
1. Identify the colour causing the problem and then blank off the other two lines.
2. Remove the last grid pattern by disconnecting the cable connected to socket BPO1 on the DCU board.
3. Adjust the brightness of the non-uniform area using the "NAVIGATION" (up, down, left and right) buttons on the RCU.
4. Select the next colour position using the NUMERICAL buttons on the RCU and adjust its brightness.
5. After completing the adjustment procedure, reconnect the cable to BPO1 on the DCU board.

CORRECTION DE L'EFFET DE BANDE

L'effet de bande est une zone d'écran non uniforme (foncée). Ceci peut survenir après un réglage de convergence (par exemple, Level 3). Lorsque deux lignes horizontales sont trop proches l'une de l'autre, une zone plus brillante apparaît. Lorsque deux lignes horizontales sont trop éloignées l'une de l'autre, une zone plus foncée apparaît. L'effet de bande est visible sur image fixe (voir Fig. ci-dessous).
Procédure:
1 - Identifier la couleur affectée par l'effet de bande en recouvrant deux couleurs.
2 - Déconnecter la mise à terre en déconnectant le connecteur BPO1 de la platine DCU.
3 - Corriger le phénomène.
4 - Sélectionner la couleur à gauche ou à droite pour le réglage du point suivant.
5 - Ne pas omettre de reconnecter le connecteur après le réglage.

CORREZIONE DELL' EFFETTO BANDING

L'effetto banding è costituito da aree non uniformi (scure) che può prodursi dopo regolazione della convergenza (p.es. level 3). Quando due linee orizzontali sono troppo distanti: l'immagine è più scura.
Quando due linee troppo sono vicine: l'immagine è più luminosa.
CB è visibile su un'immagine uniforme (vedere illustrazione sottostante).
Procedura:
1 - Identificare quale colore provoca il difetto coprendo le due linee in modo che sia visibile solo un colore su un monocampo bianco.
2 - Selezionare level 3 per le colori corrispondenti.
3 - Posizionare il cursore nella giusta posizione.
4 - Rimuovere la griglia scollegando il cavo del connettore BPO1 sul DCU.
5 - Correggere la non uniformità nella luminosità.
6 - Posizionare il cursore a destra o sinistra per correggere il punto successivo.
7 - Terminare la regolazione, non dimenticare di collegare il cavo BPO1.

KORREKTUR DES BANDING-EFFEKTES

Der Banding-Effekt ist eine ungleichmäßige Zone oder ein Schatten auf dem Bildschirm. Dies kann nach einem Konvergenzabgleich im Level 3 auftreten. Der Effekt ist besonders sichtbar, wenn zwei horizontale Linien sehr zu dicht zusammen (helle Zone) oder sehr weit auseinander (dunkle Zone) sind.
Das Bild ist bei einer gleichmäßigen Bild ein dunkler (siehe Bild unten).
Abgleich:
1 - Stellen Sie fest, welche Farbe den Effekt verursacht indem Sie jeweils zwei Farben abblenden.
2 - Gehen Sie in das Konvergenzmenü Level 3 und wählen Sie den Abgleich für die jeweilige Farbe.
3 - Halten Sie den Zentrierknopf (G, S, B und U) der Fernbedienung drücken Sie den Cursor auf die rechte Seite der Zone.
4 - Stellen Sie das Gittermuster durch Ziehen des Kabels vom Verbinder BPO1 auf der DCU-Platine aus.
5 - Stellen Sie die Helligkeit der Zone mit den Pfeiltasten der Fernbedienung ein.
6 - Bewegen Sie den Cursor auf die nächste Position und wiederholen die Einstellung.
7 - Nach dem Abgleich stecken Sie das Kabel wieder auf Verbinder BPO1.

CORRECCION DEL EFECTO DE BANDA

El "efecto de banda" es un área no uniforme (oscura). Puede ocurrir después de un ajuste de convergencia (por ej., nivel 3). Cuando dos líneas horizontales están demasiado cercanas, el área es más brillante. Cuando 2 líneas horizontales están demasiado distantes, el área es más oscura. Se ve bien en una imagen uniforme (vea el dibujo más abajo).
Procedimiento:
1 - Identifique el color que ocasiona el fallo cubriendo 2 líneas, de modo que sólo se vea un color con una pantalla de prueba blanca.
2 - Seleccionar el nivel 3 para el color correspondiente.
3 - Colocar el cursor en el lugar deseado.
4 - Retire la rejilla desconectando el cable del conector BPO1 en la tarjeta DCU.
5 - Corrija la falta de uniformidad en el brillo.
6 - Mueva el cursor a la derecha o a la izquierda para corregir la posición siguiente.
7 - No olvide conectar el cable BPO1 después del ajuste.

CONVERGENCE ADJUSTMENT - REGLAGES DES CONVERGENCES - KONVERGENZ ABGLEICH - REGOLAZIONE CONVERGENZA - AJUSTE DE CONVERGENCIA

RP C19 First Issue 07 / 98. Includes menu screenshots for SERVICE MODE, CONVERGENCE ALIGNMENT, LEVEL 2 ALIGNMENT MENU, LEVEL 3 ALIGNMENT, CONVERGENCE DEFAULTS, and a physical button diagram.

Service Mode (B) section. Includes instructions for selecting 'CONVERGENCE', alignment procedures, and Level 2/3 alignment steps. Includes a diagram of the red grid.

Service Mode (F) section. Includes instructions for selecting 'CONVERGENCE', alignment procedures, and Level 2/3 alignment steps. Includes a diagram of the red grid.

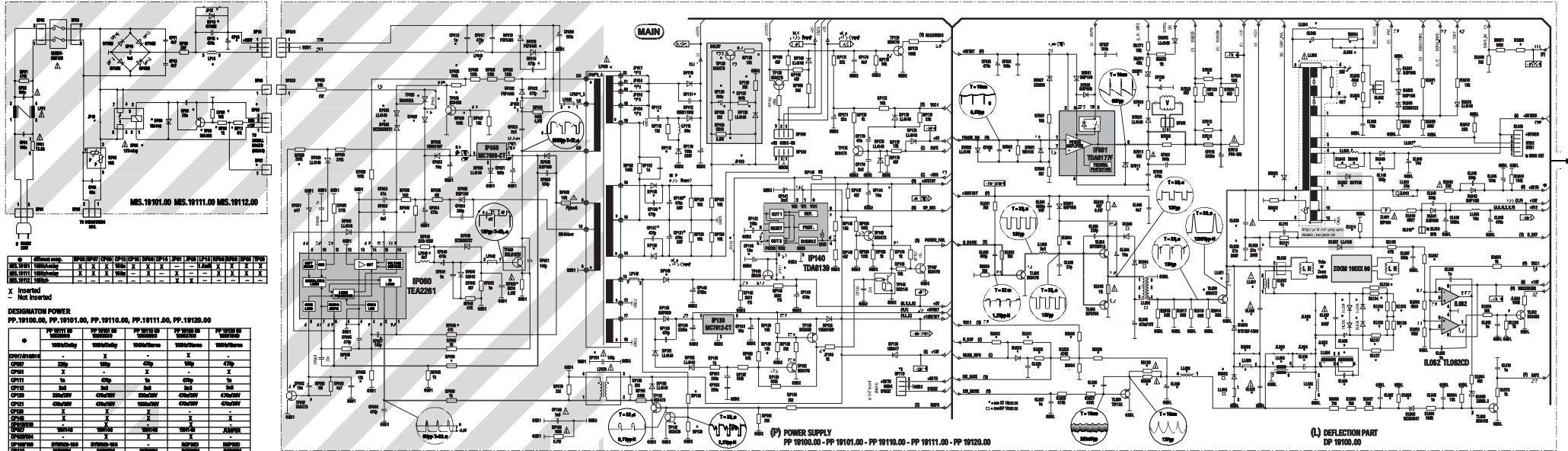
Service Mode (D) section. Includes instructions for selecting 'CONVERGENCE', alignment procedures, and Level 2/3 alignment steps. Includes a diagram of the red grid.

Service Mode (I) section. Includes instructions for selecting 'CONVERGENCE', alignment procedures, and Level 2/3 alignment steps. Includes a diagram of the red grid.

Service Mode (E) section. Includes instructions for selecting 'CONVERGENCE', alignment procedures, and Level 2/3 alignment steps. Includes a diagram of the red grid.

Notes: In the event of it being necessary to replace all three tubes... En cas de nécessité de changement des trois tubes... Nel caso in cui si renda necessaria la sostituzione dei tre tubi... Si necessita cambiar los 3 tubos...

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



	MS. 1010.00	MS. 1011.00	MS. 1012.00
MS.1010.00	X	X	X
MS.1011.00	-	X	X
MS.1012.00	-	-	X

DESIGNATOR POWER

PP.1010.00, PP.1011.00, PP.1010.00, PP.1011.00, PP.1012.00

DESIGNATOR	PP.1010.00	PP.1011.00	PP.1010.00	PP.1011.00	PP.1012.00
CP007	-	-	-	-	47µF
CP011	-	-	-	-	47µF
CP012	-	-	-	-	47µF
CP013	-	-	-	-	47µF
CP014	-	-	-	-	47µF
CP015	-	-	-	-	47µF
CP016	-	-	-	-	47µF
CP017	-	-	-	-	47µF
CP018	-	-	-	-	47µF
CP019	-	-	-	-	47µF
CP020	-	-	-	-	47µF
CP021	-	-	-	-	47µF
CP022	-	-	-	-	47µF
CP023	-	-	-	-	47µF
CP024	-	-	-	-	47µF
CP025	-	-	-	-	47µF
CP026	-	-	-	-	47µF
CP027	-	-	-	-	47µF
CP028	-	-	-	-	47µF
CP029	-	-	-	-	47µF
CP030	-	-	-	-	47µF
CP031	-	-	-	-	47µF
CP032	-	-	-	-	47µF
CP033	-	-	-	-	47µF
CP034	-	-	-	-	47µF
CP035	-	-	-	-	47µF
CP036	-	-	-	-	47µF
CP037	-	-	-	-	47µF
CP038	-	-	-	-	47µF
CP039	-	-	-	-	47µF
CP040	-	-	-	-	47µF
CP041	-	-	-	-	47µF
CP042	-	-	-	-	47µF
CP043	-	-	-	-	47µF
CP044	-	-	-	-	47µF
CP045	-	-	-	-	47µF
CP046	-	-	-	-	47µF
CP047	-	-	-	-	47µF
CP048	-	-	-	-	47µF
CP049	-	-	-	-	47µF
CP050	-	-	-	-	47µF
CP051	-	-	-	-	47µF
CP052	-	-	-	-	47µF
CP053	-	-	-	-	47µF
CP054	-	-	-	-	47µF
CP055	-	-	-	-	47µF
CP056	-	-	-	-	47µF
CP057	-	-	-	-	47µF
CP058	-	-	-	-	47µF
CP059	-	-	-	-	47µF
CP060	-	-	-	-	47µF
CP061	-	-	-	-	47µF
CP062	-	-	-	-	47µF
CP063	-	-	-	-	47µF
CP064	-	-	-	-	47µF
CP065	-	-	-	-	47µF
CP066	-	-	-	-	47µF
CP067	-	-	-	-	47µF
CP068	-	-	-	-	47µF
CP069	-	-	-	-	47µF
CP070	-	-	-	-	47µF
CP071	-	-	-	-	47µF
CP072	-	-	-	-	47µF
CP073	-	-	-	-	47µF
CP074	-	-	-	-	47µF
CP075	-	-	-	-	47µF
CP076	-	-	-	-	47µF
CP077	-	-	-	-	47µF
CP078	-	-	-	-	47µF
CP079	-	-	-	-	47µF
CP080	-	-	-	-	47µF
CP081	-	-	-	-	47µF
CP082	-	-	-	-	47µF
CP083	-	-	-	-	47µF
CP084	-	-	-	-	47µF
CP085	-	-	-	-	47µF
CP086	-	-	-	-	47µF
CP087	-	-	-	-	47µF
CP088	-	-	-	-	47µF
CP089	-	-	-	-	47µF
CP090	-	-	-	-	47µF
CP091	-	-	-	-	47µF
CP092	-	-	-	-	47µF
CP093	-	-	-	-	47µF
CP094	-	-	-	-	47µF
CP095	-	-	-	-	47µF
CP096	-	-	-	-	47µF
CP097	-	-	-	-	47µF
CP098	-	-	-	-	47µF
CP099	-	-	-	-	47µF
CP100	-	-	-	-	47µF

X Inserted
- Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primaire delo chassis collegata alla rete.
Parte dello chassis collegata a la red.

Safety Part
When repairing, use original part only
Pièces de sécurité
N'utilisez que les pièces d'origine
Sicherheitsbestandteil
Bei Ersatz nur Originalteile verwenden
Componenti di sicurezza
Per la riparazione utilizzare solo componenti originali
Piezas de seguridad
Utilice solo piezas originales

Note:
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attention:
Mesure dans le bloc alimentation
- Utiliser la masse du bloc alimentation (GND1).
Adverting:
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (GND1).
Attenzione:
misura nell'alimentatore primario
- usare massa alimentazione primario (GND1).
Cuidado:
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

Using isolating mains transformer
Utiliser un transformateur isolateur du secteur
Einen Transformator verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolare dalla rete

Designator	Make	Part No.
IP060	TEAZ201	TEAZ201
IP140	TEA220	TEA220
IP150	TEA220	TEA220
IP160	TEA220	TEA220
IP170	TEA220	TEA220
IP180	TEA220	TEA220
IP190	TEA220	TEA220
IP200	TEA220	TEA220
IP210	TEA220	TEA220
IP220	TEA220	TEA220
IP230	TEA220	TEA220
IP240	TEA220	TEA220
IP250	TEA220	TEA220
IP260	TEA220	TEA220
IP270	TEA220	TEA220
IP280	TEA220	TEA220
IP290	TEA220	TEA220
IP300	TEA220	TEA220

X Inserted
- Not inserted

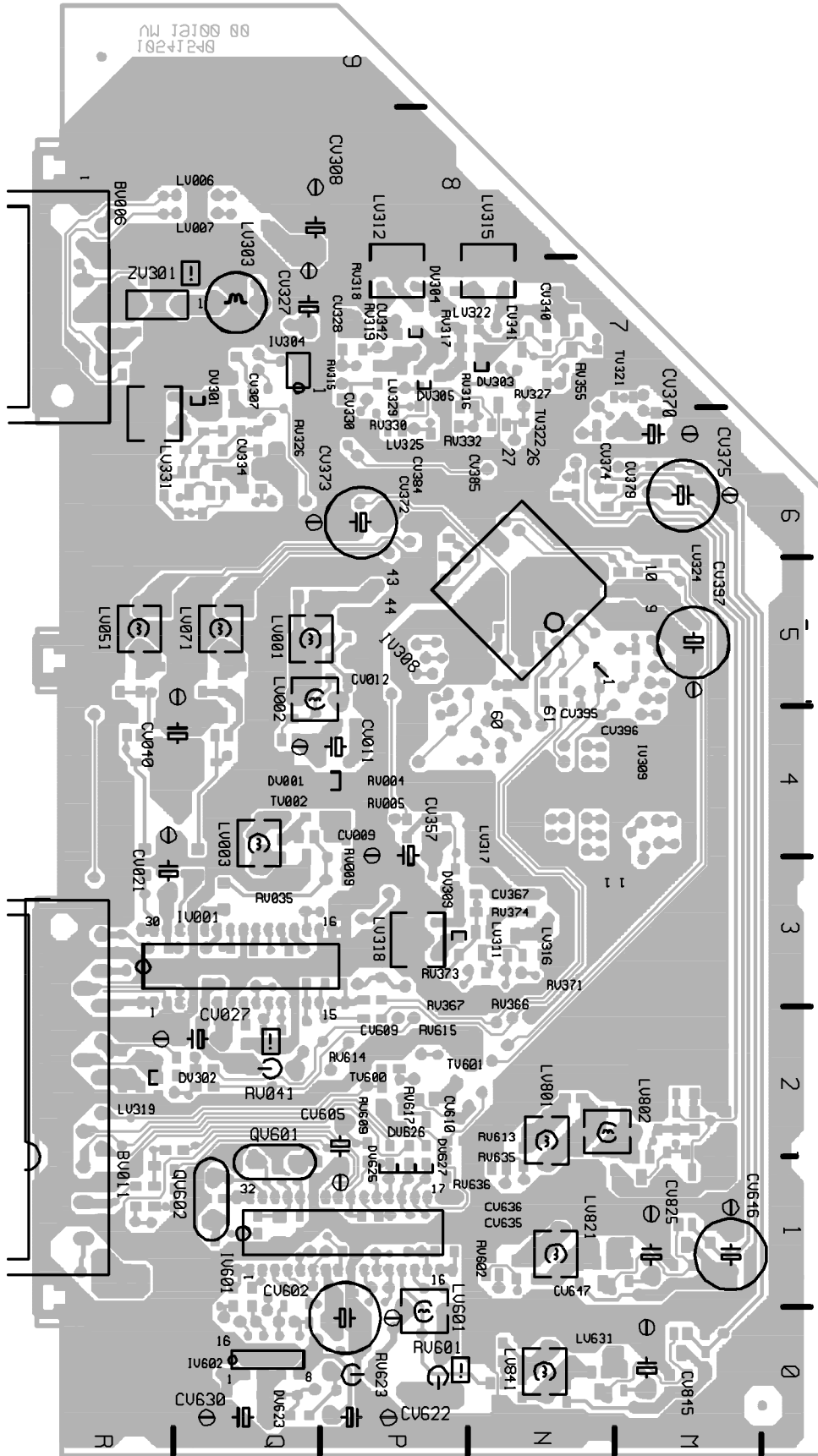
Designator	Make	Part No.	CT 1010.00	CT 1011.00	CT 1012.00	CT 1013.00	CT 1014.00	CT 1015.00	CT 1016.00	CT 1017.00	CT 1018.00	CT 1019.00	CT 1020.00
CT 1010.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1011.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1012.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1013.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1014.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1015.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1016.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1017.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1018.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1019.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
CT 1020.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X

Note: the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 10005.31 Ulys 131V →
Note: los dos últimos números de la denominación CT xxxx, indica la tensión Ulys
e.g. CT 10005.31 Ulys 131V →

Designator	Make	Part No.	CT 1010.00	CT 1011.00	CT 1012.00	CT 1013.00	CT 1014.00	CT 1015.00	CT 1016.00	CT 1017.00	CT 1018.00	CT 1019.00	CT 1020.00
DP 1010.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1011.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1012.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1013.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1014.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1015.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1016.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1017.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1018.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1019.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X
DP 1020.00	TEAZ201	TEAZ201	X	X	X	X	X	X	X	X	X	X	X

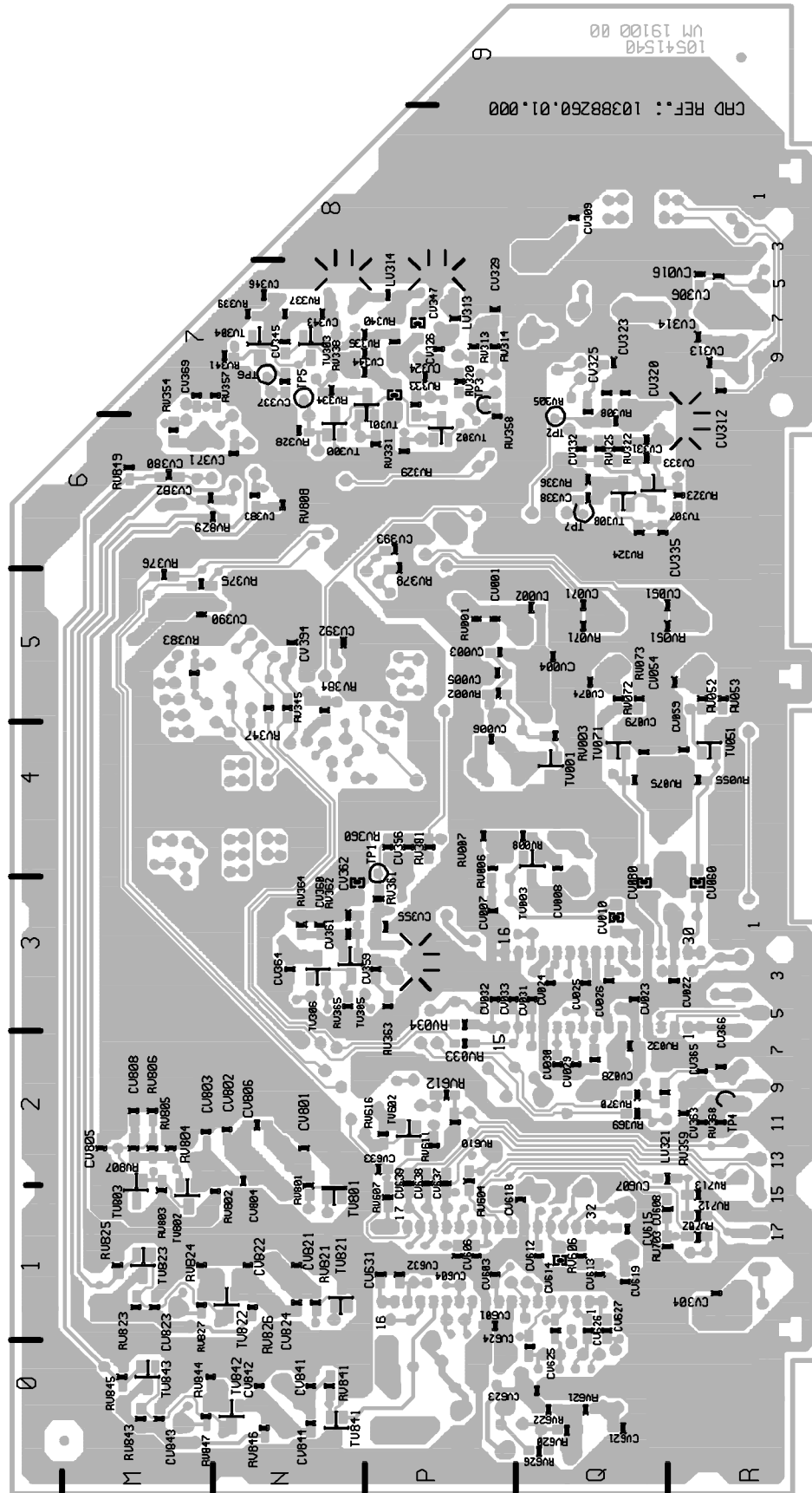
VM19100

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

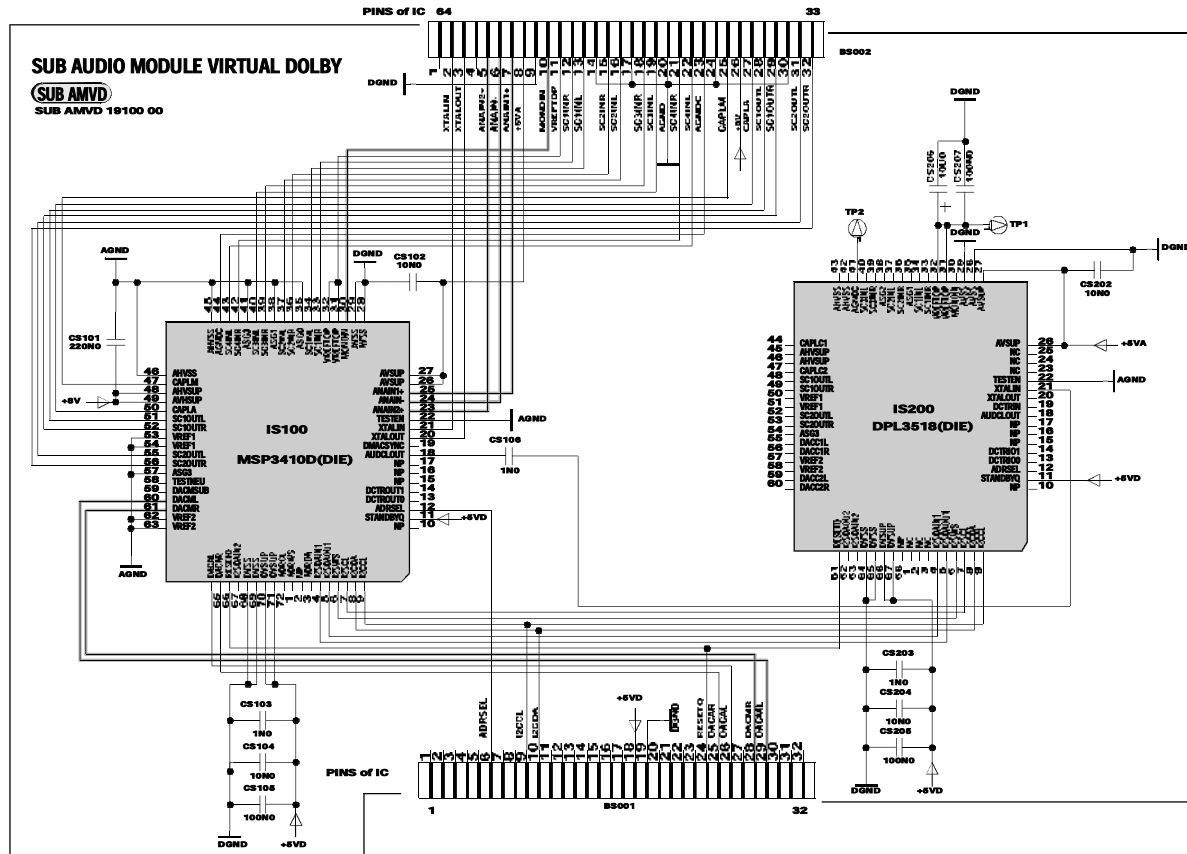


VM19100

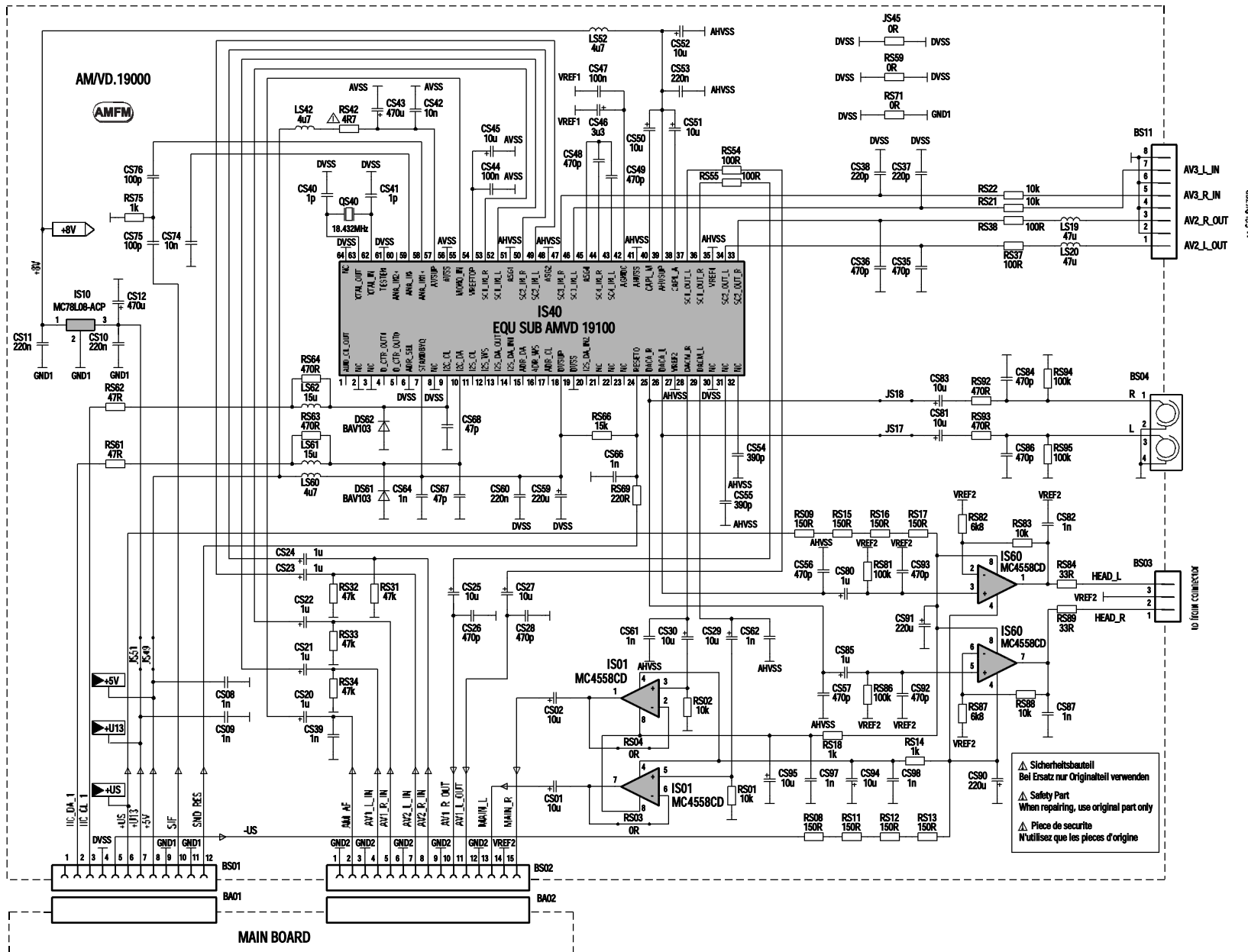
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



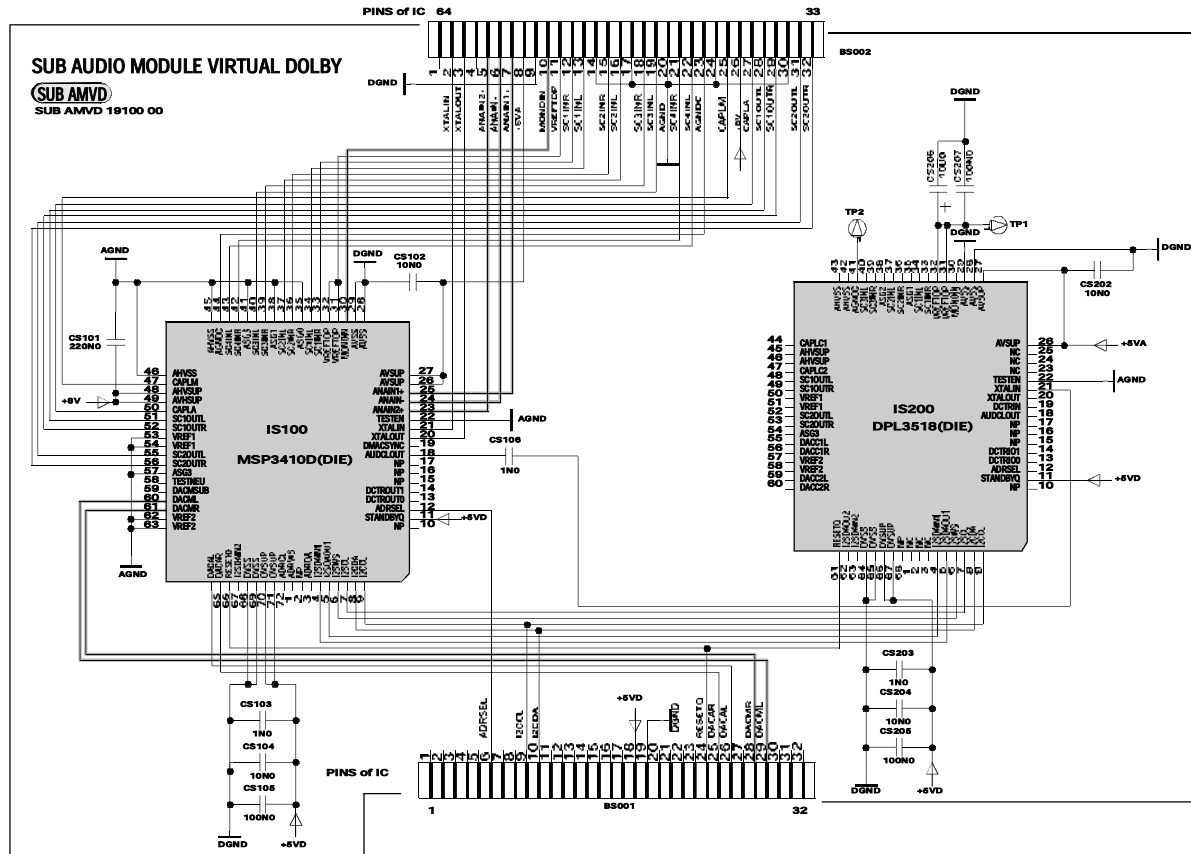
SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



AUDIO SIGNAL MODULE - MODULE AUDIO - TON SIGNAL BAUSTEIN - MODULO AUDIO

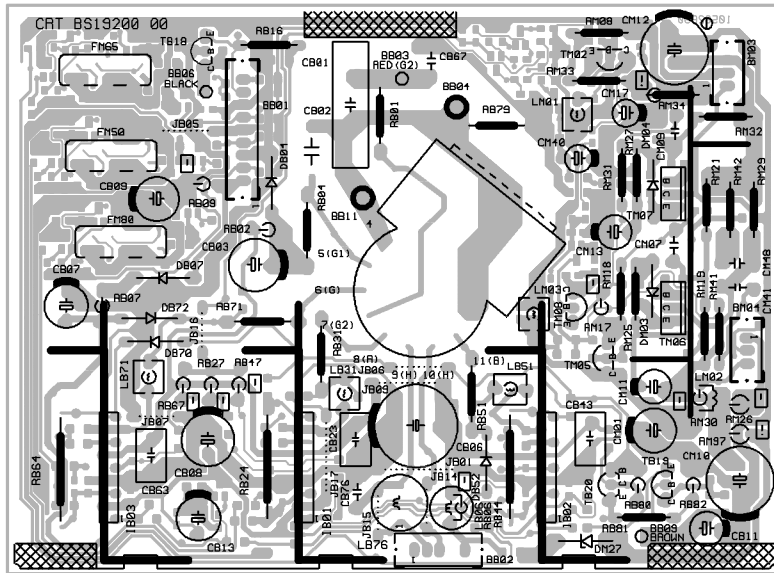


SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



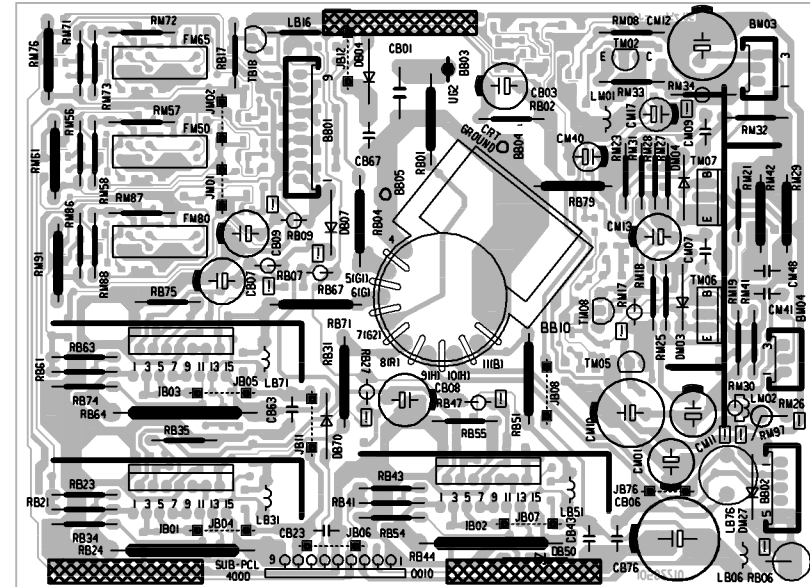
CRT BS 19200 - CRT BS 19201

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

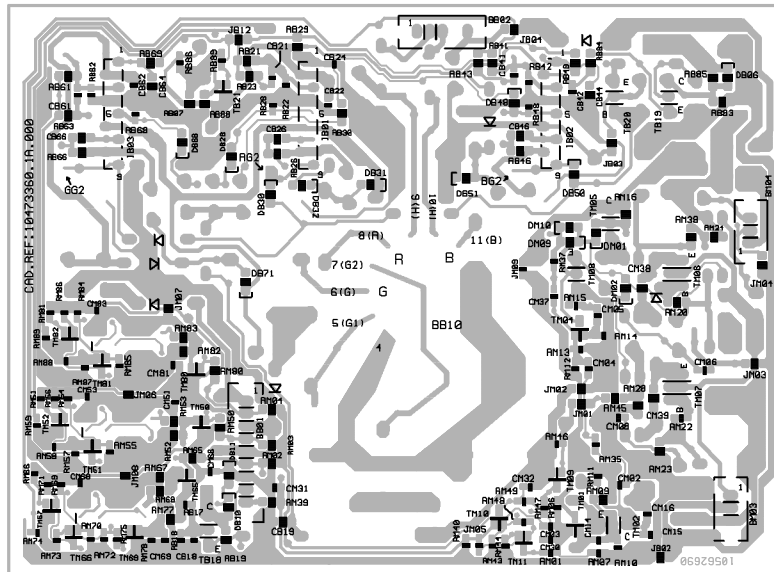


CRT BS 19100 - CRT BS 19400

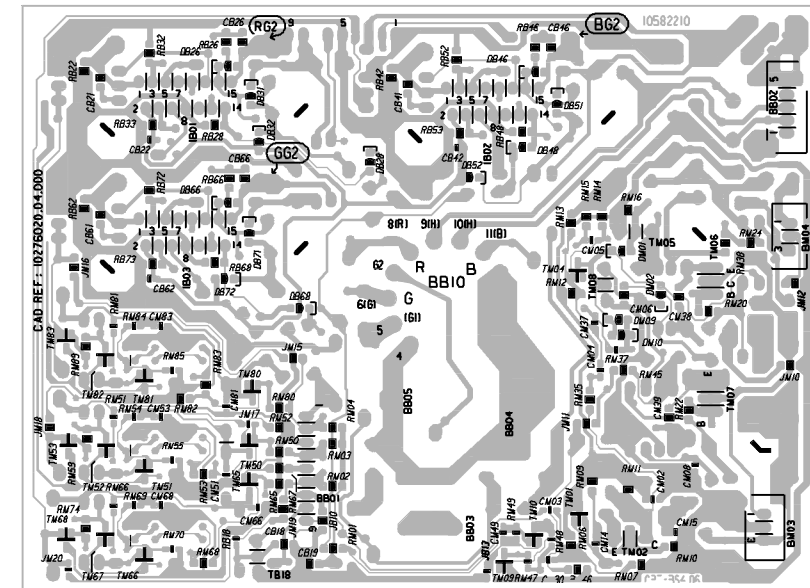
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



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

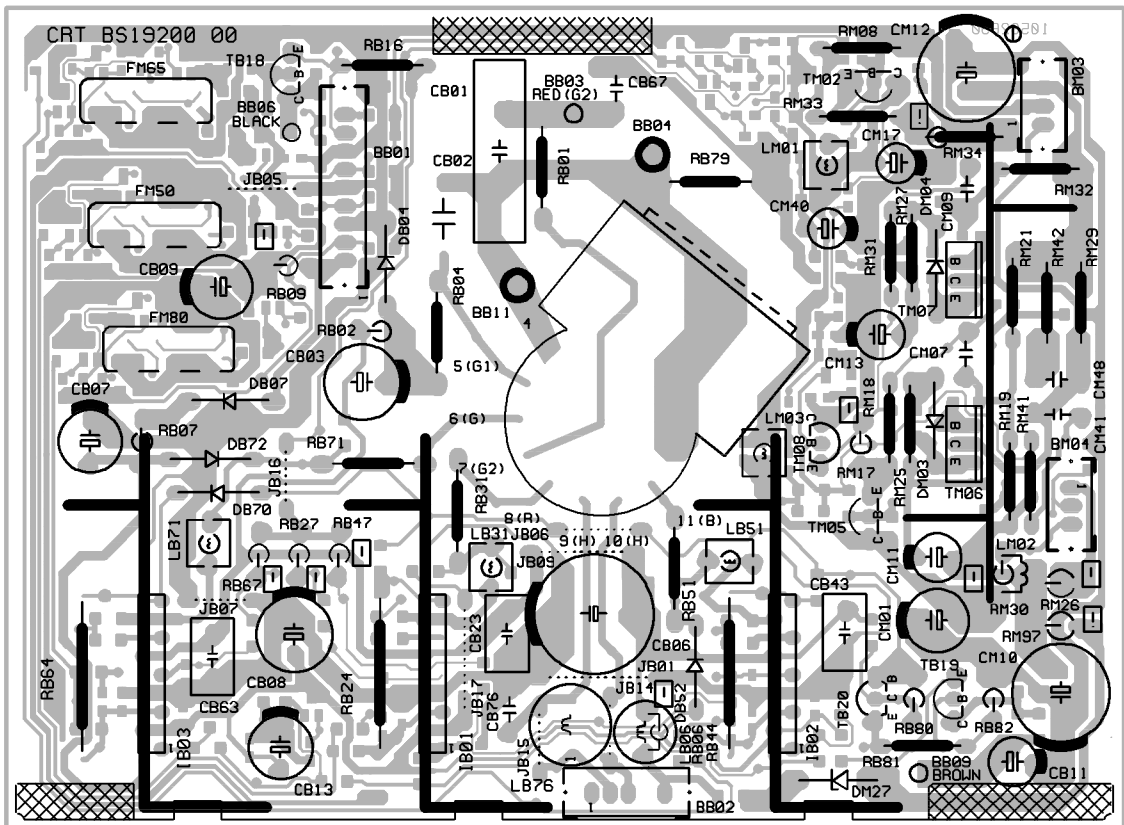


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

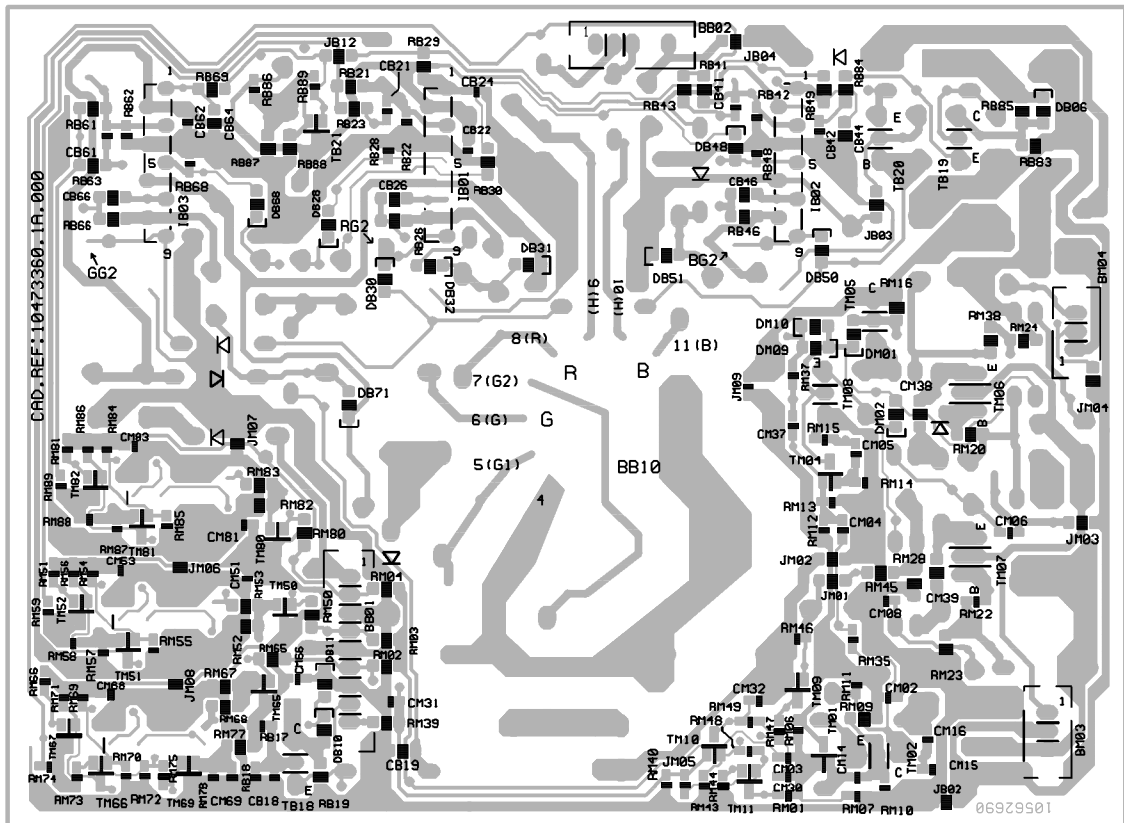


CRT BS 19200 - CRT BS 19201

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

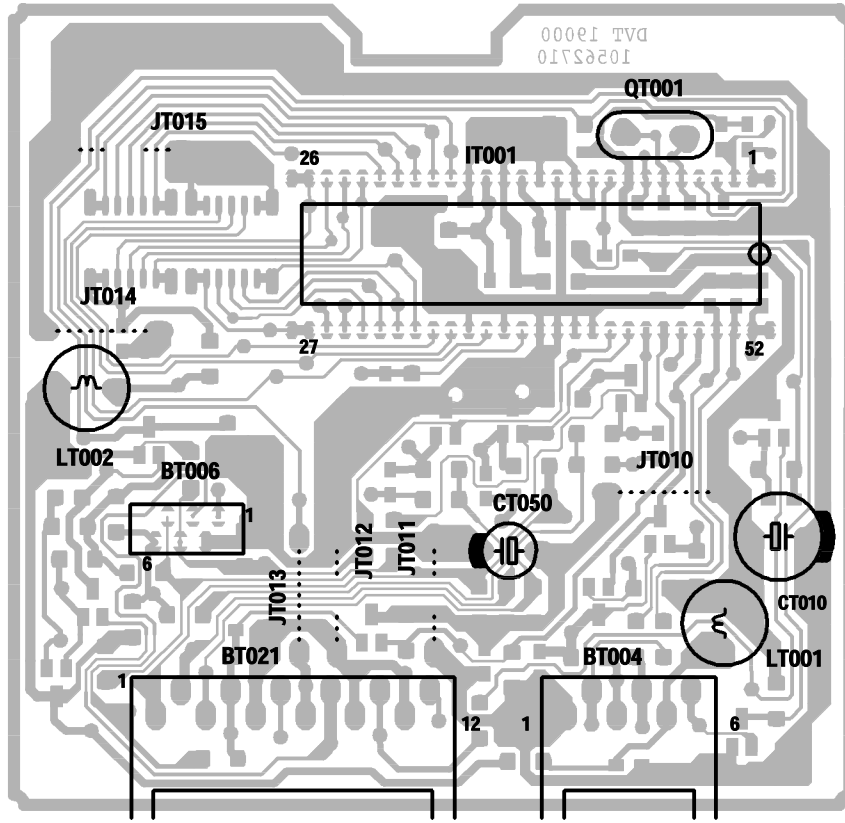


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

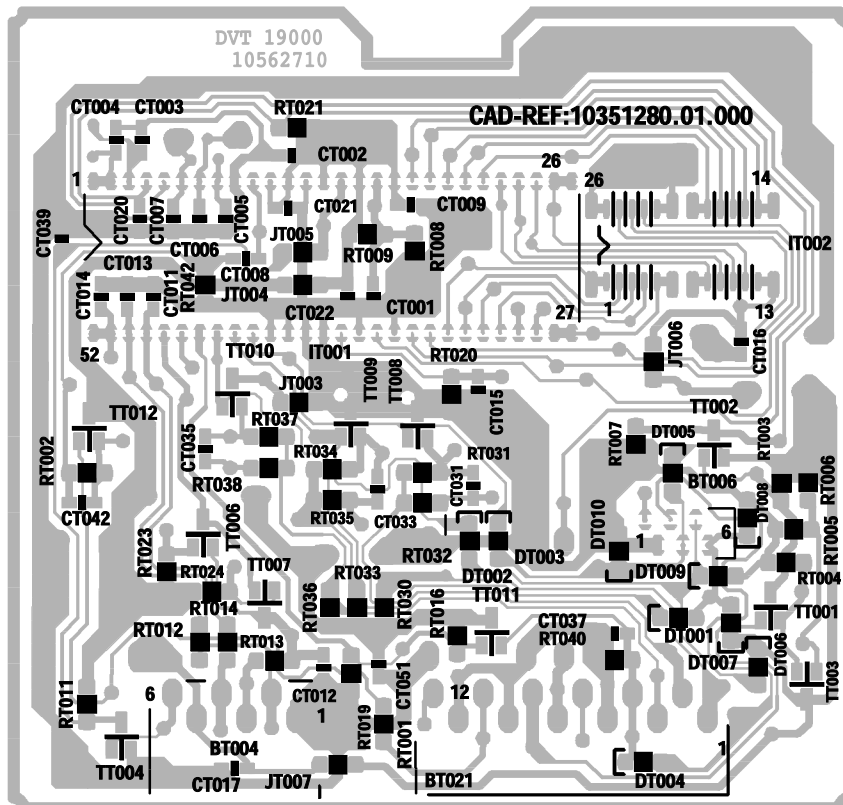


DVT 19410

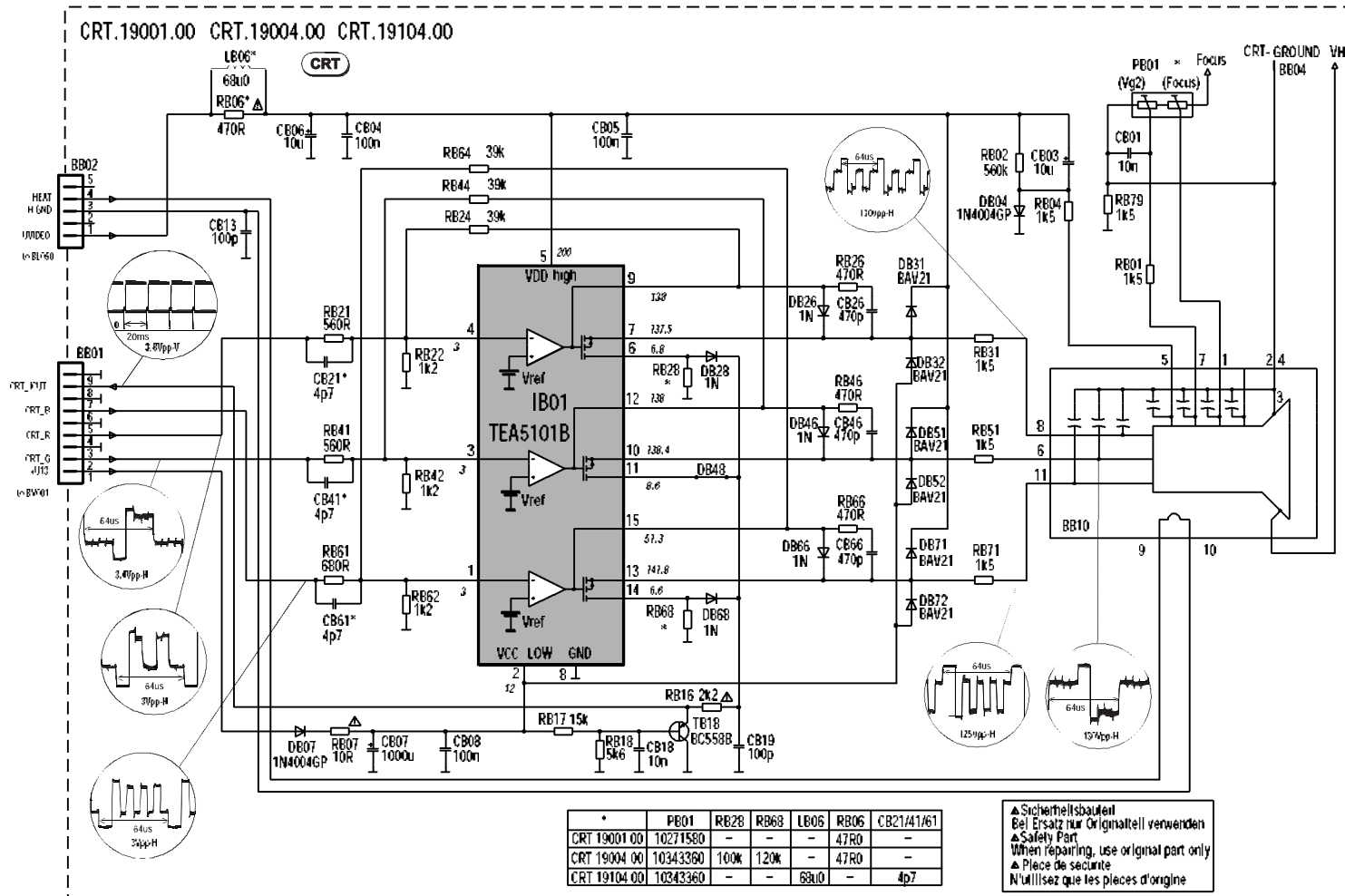
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



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

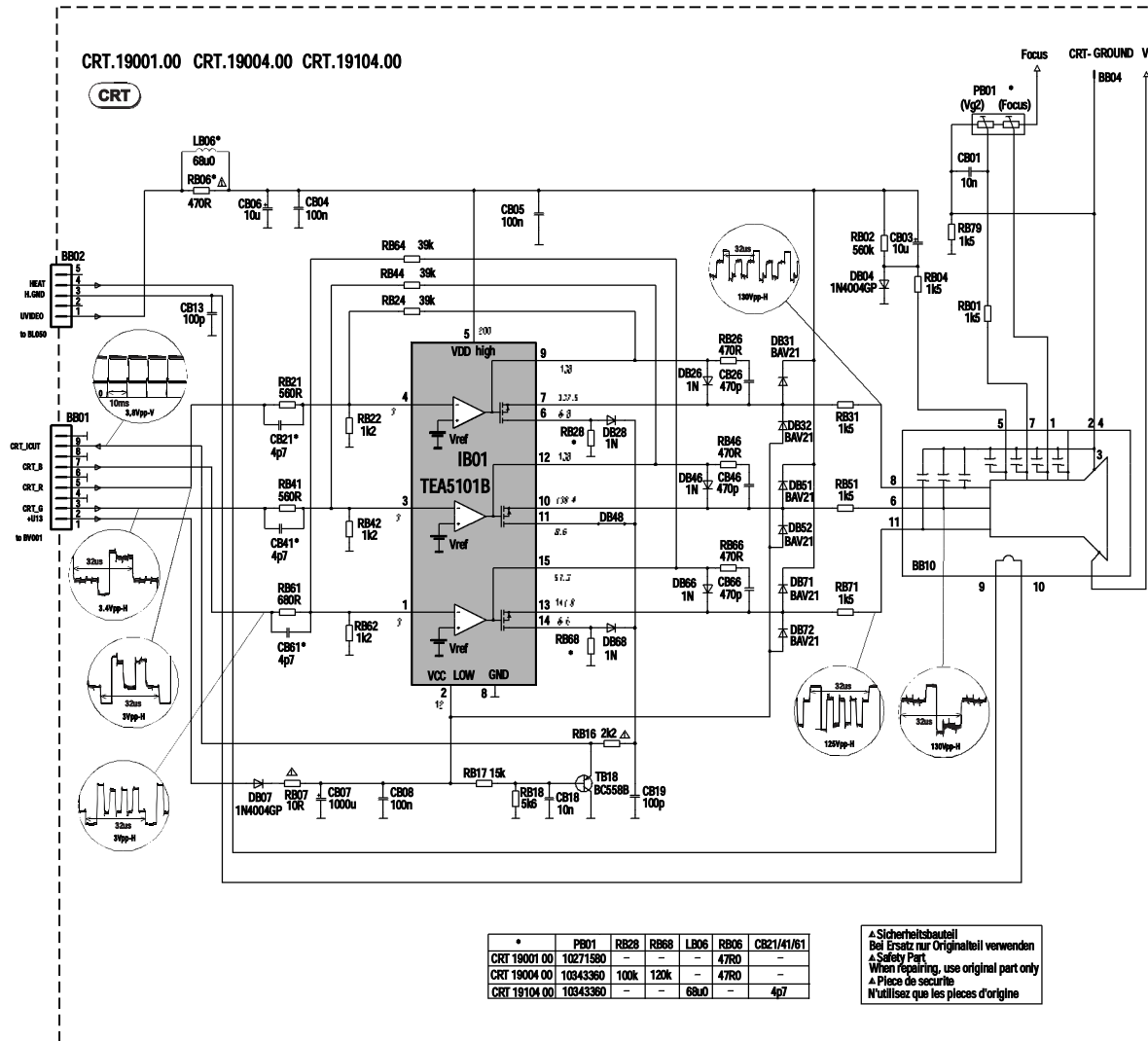


VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO



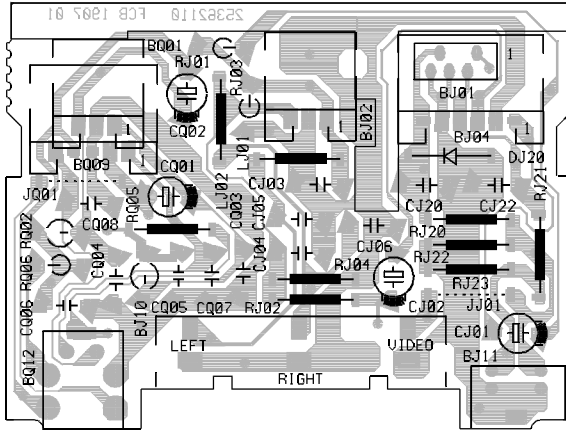
VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO -
 PLATINA AMPLIFICADOR VIDEO

CRT1904 - CRT19104

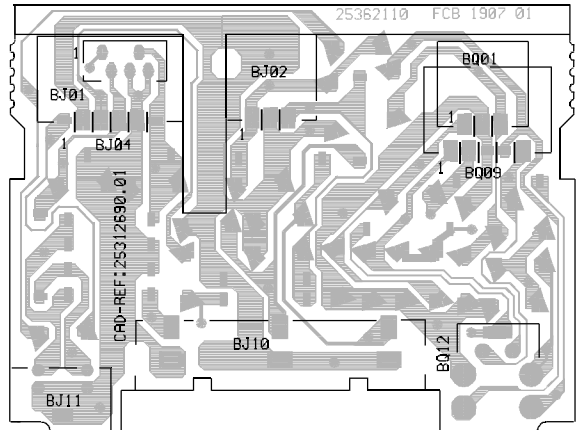


FCB 1907

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

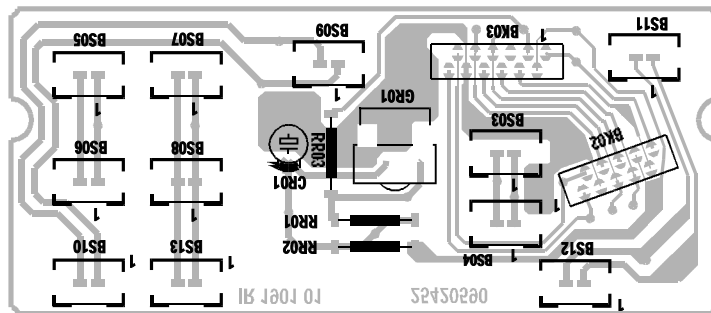


SOLDER SIDE - CÔTE SOUDURES -
LÖTSEITE - LATO SALDATURE -
LADO SOLDADURAS

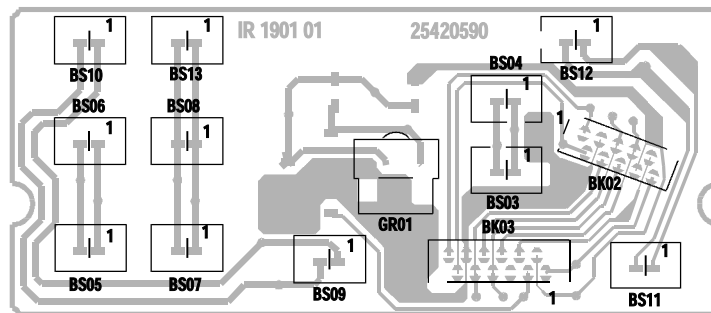


IR 1901

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



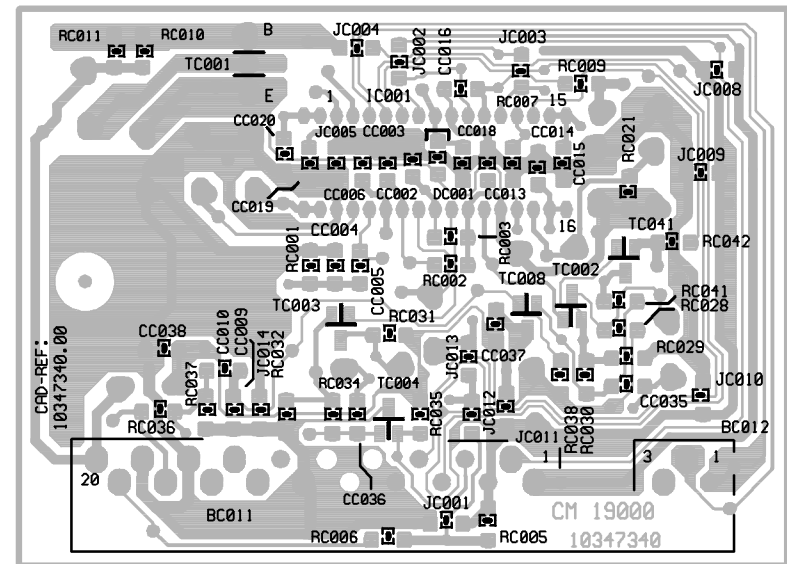
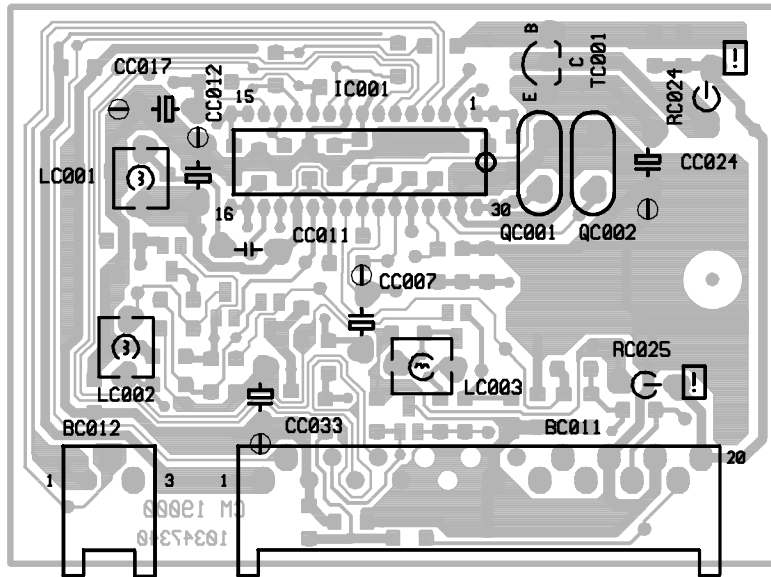
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



CHROMA MODULE - CM 19000 00

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

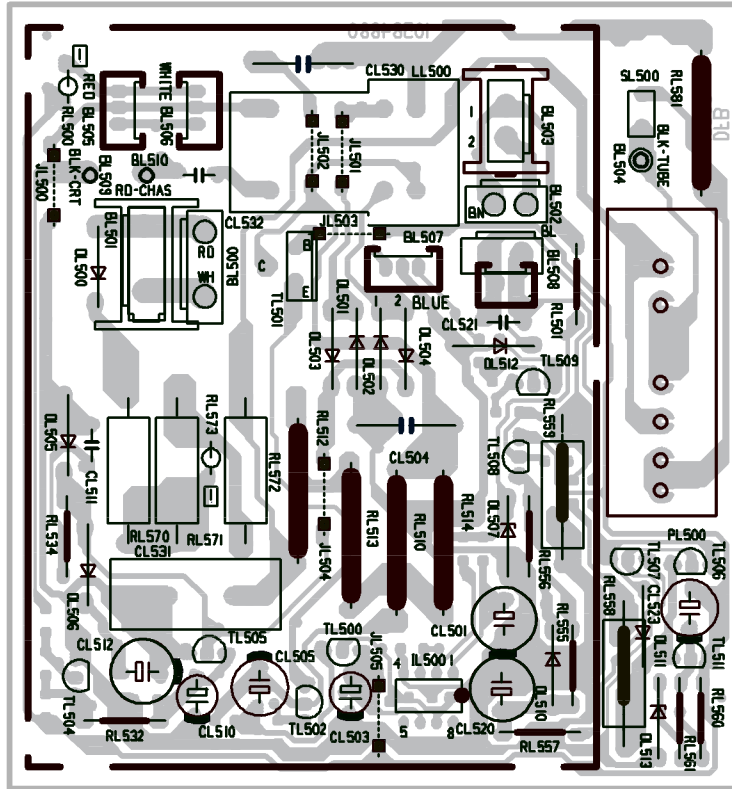
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO
SALDATURE - LADO SOLDADURAS



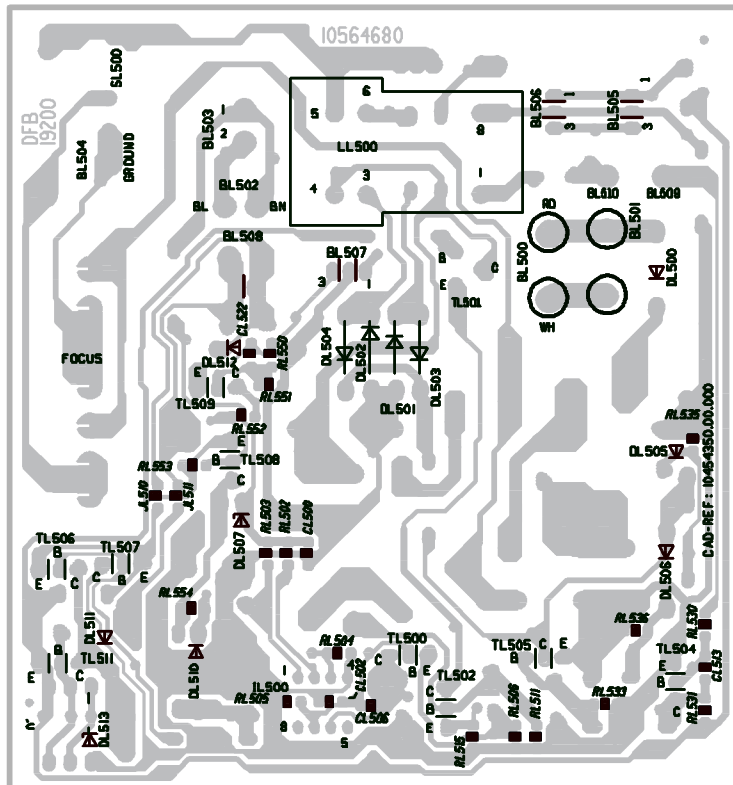
DFB 19200

DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAUSTEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO

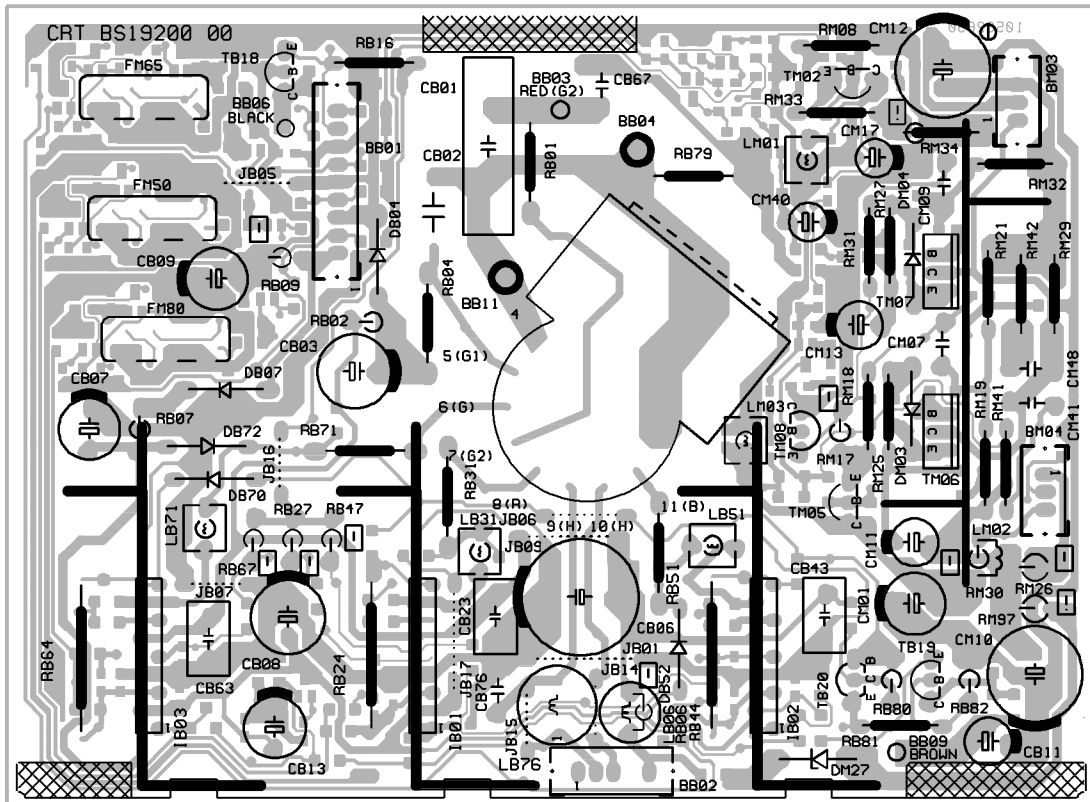
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



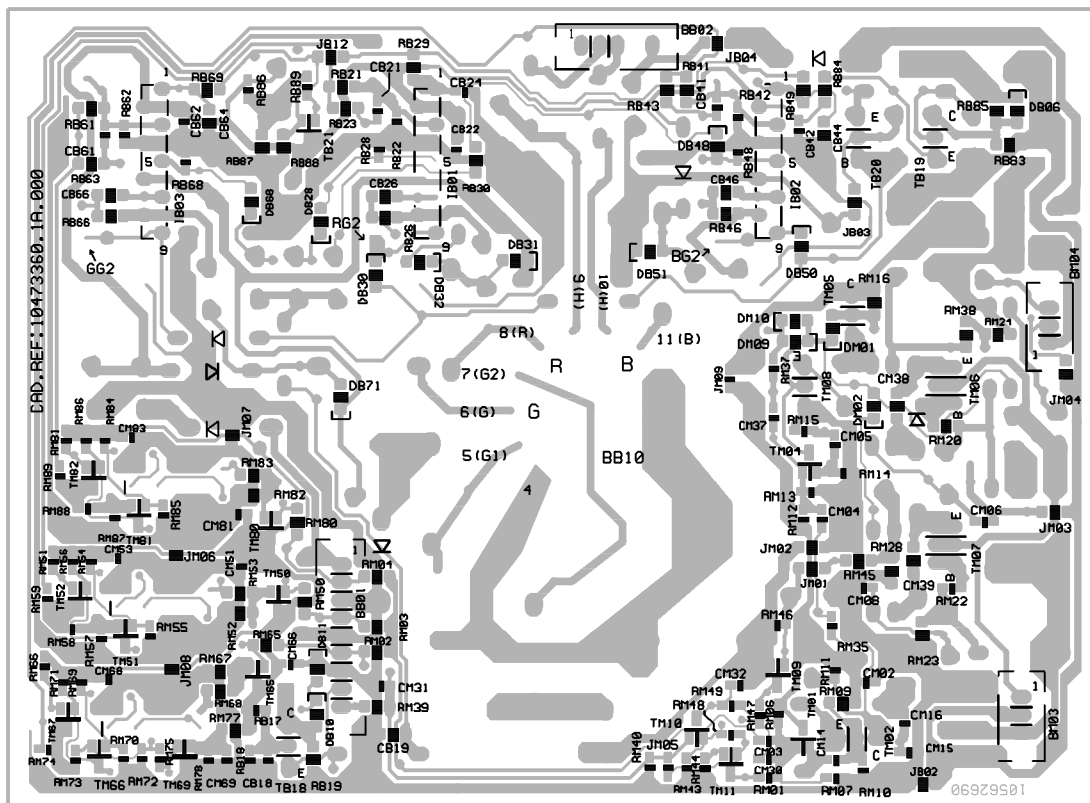
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



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

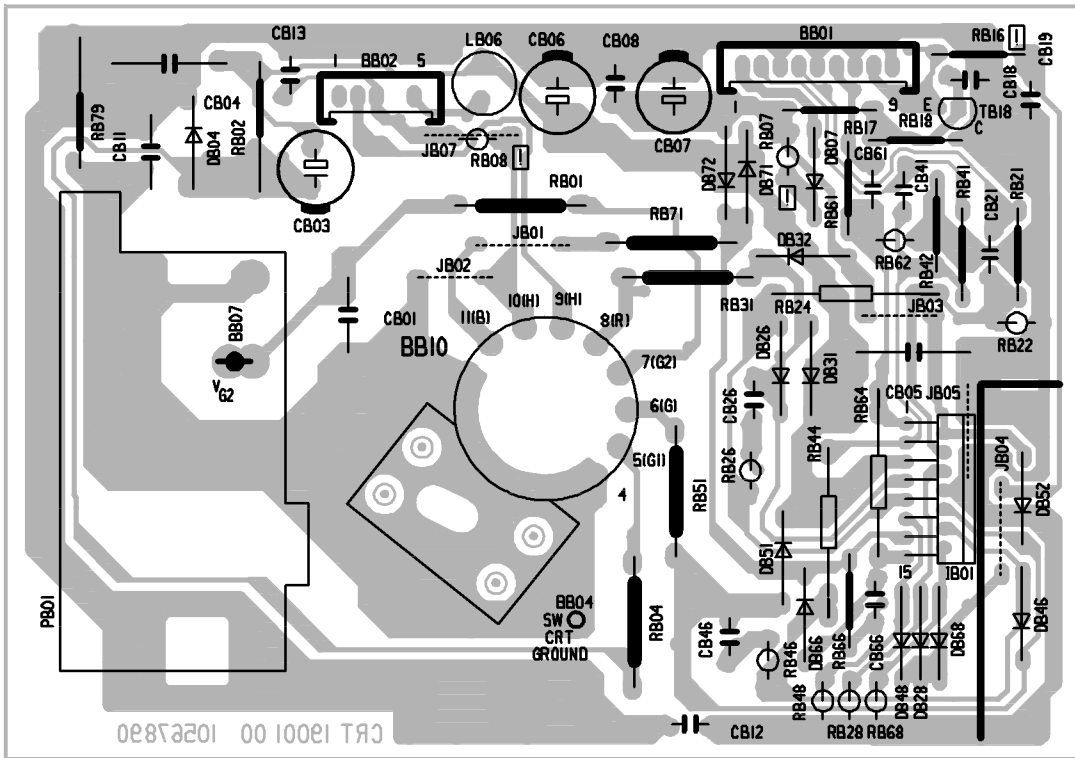


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

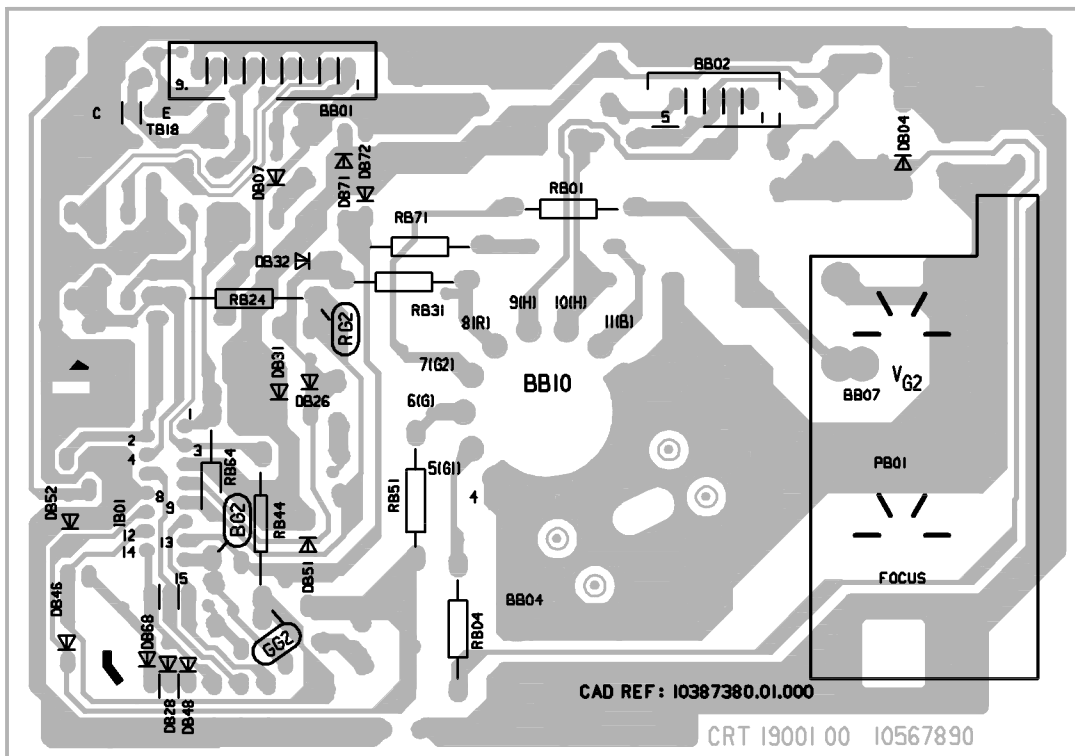


CRT19004 - CRT 19104

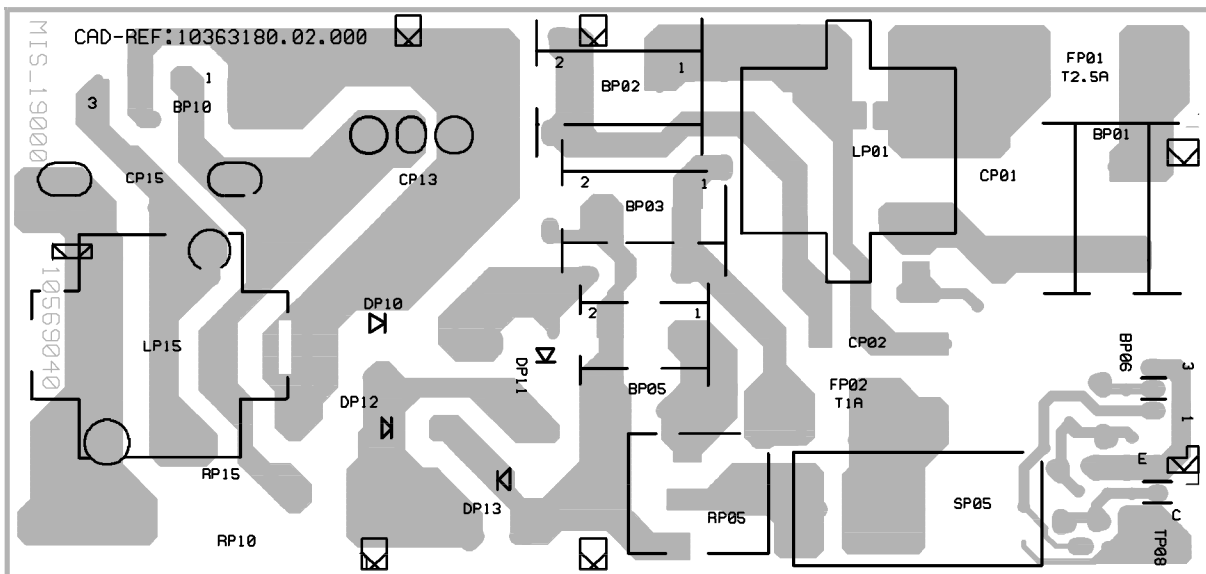
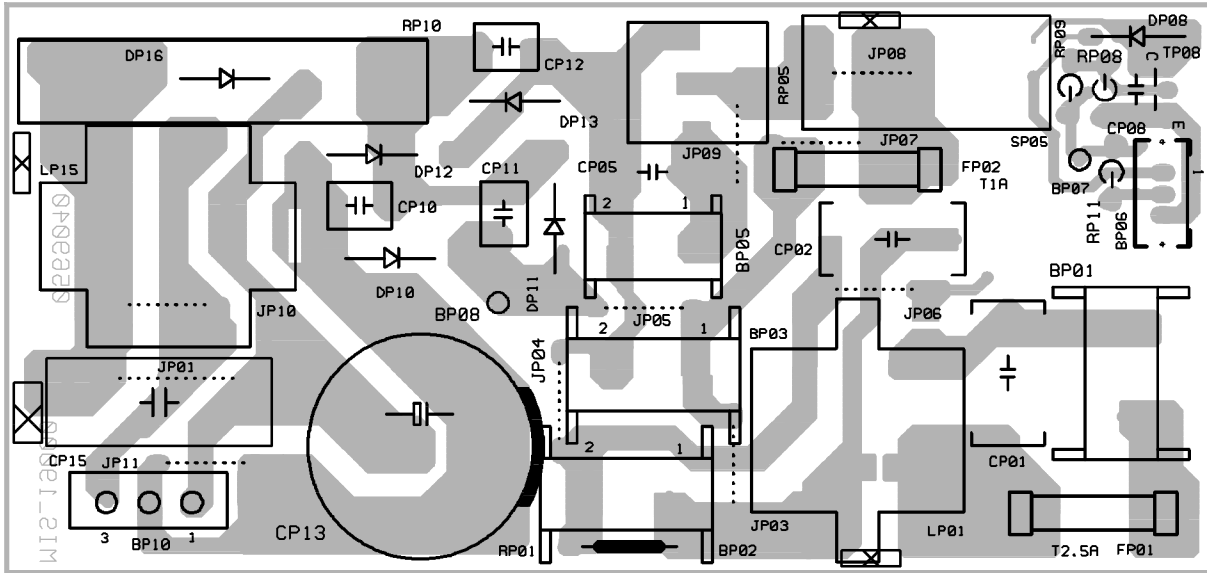
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES



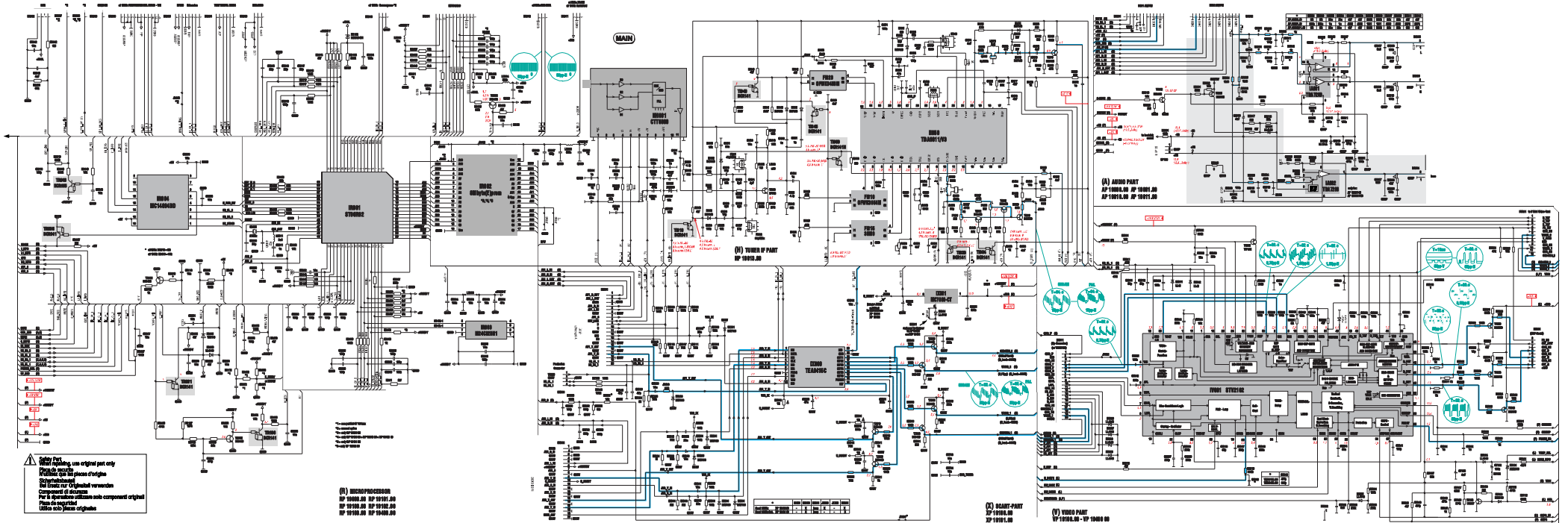
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



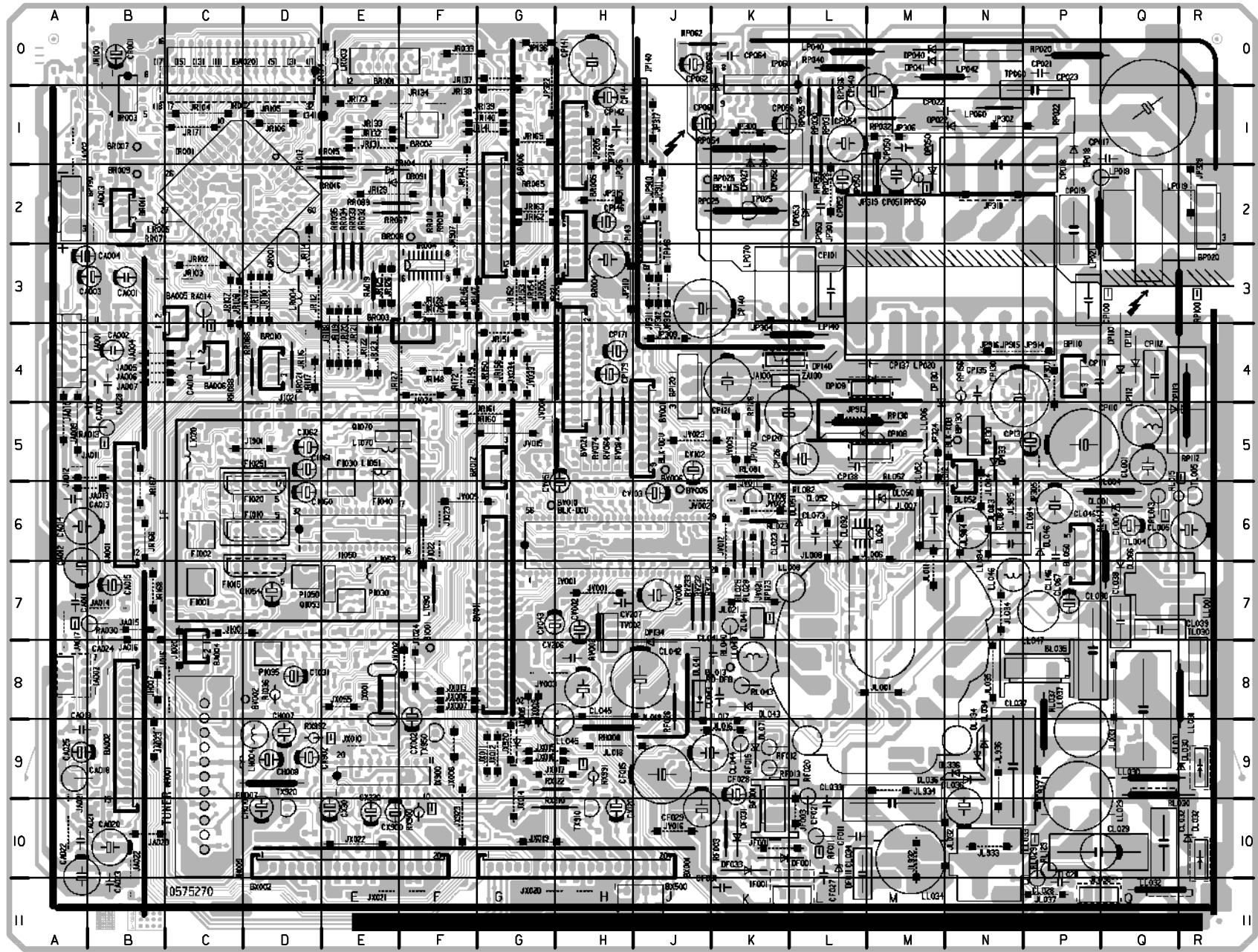
MAINS FILTER - MIS 19111

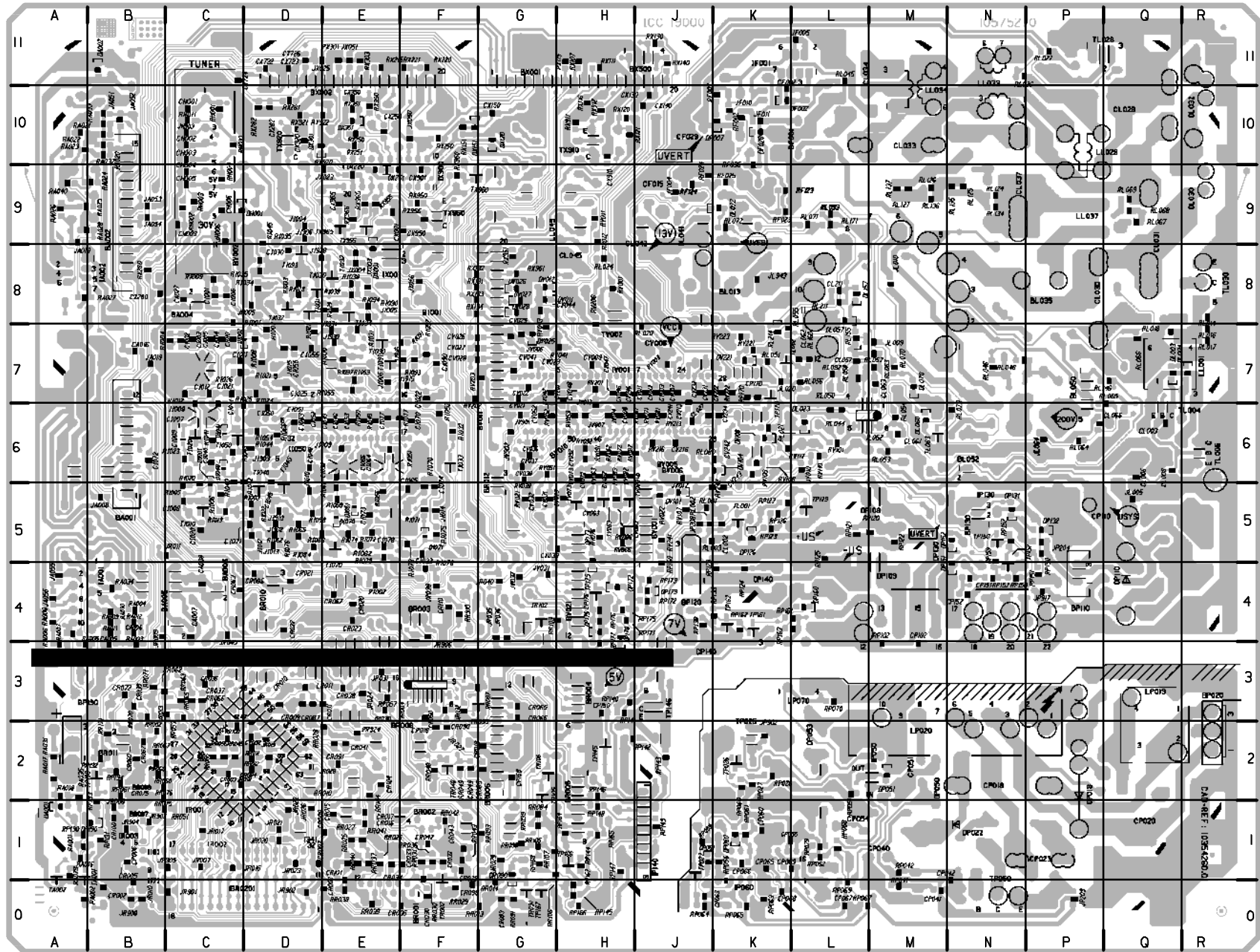


COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA



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





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

Table with 2 columns: Component ID (e.g., BA001, BA002, BA003) and Location Code (e.g., B8, C9, D8).

II

Table with 2 columns: Component ID (e.g., CA001, CA002, CA003) and Location Code (e.g., B3, B4, A3).

Table with 2 columns: Component ID (e.g., CI020, CI021, CI022) and Location Code (e.g., C5, C6, C8).

Table with 2 columns: Component ID (e.g., CP101, CP102, CP103) and Location Code (e.g., L3, M3, P5).

Table with 2 columns: Component ID (e.g., CV041, CV042, CV043) and Location Code (e.g., G7, G6, G7).

Table with 2 columns: Component ID (e.g., DP022, DP023, DP024) and Location Code (e.g., N1, K1, N0).

Table with 2 columns: Component ID (e.g., JA005, JA006, JA007) and Location Code (e.g., B4, B4, B4).

Table with 2 columns: Component ID (e.g., JP302, JP304, JP305) and Location Code (e.g., P1, L3, P5).

Table with 2 columns: Component ID (e.g., JR160, JR161, JR162) and Location Code (e.g., G5, G5, G5).

Table with 2 columns: Component ID (e.g., LP020, LP021, LP022) and Location Code (e.g., N3, N3, Q2).

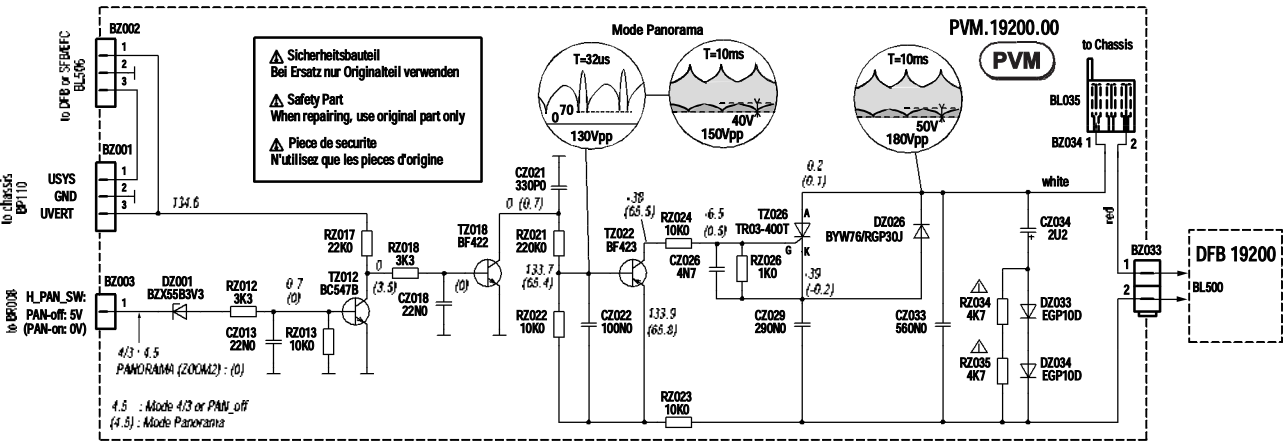
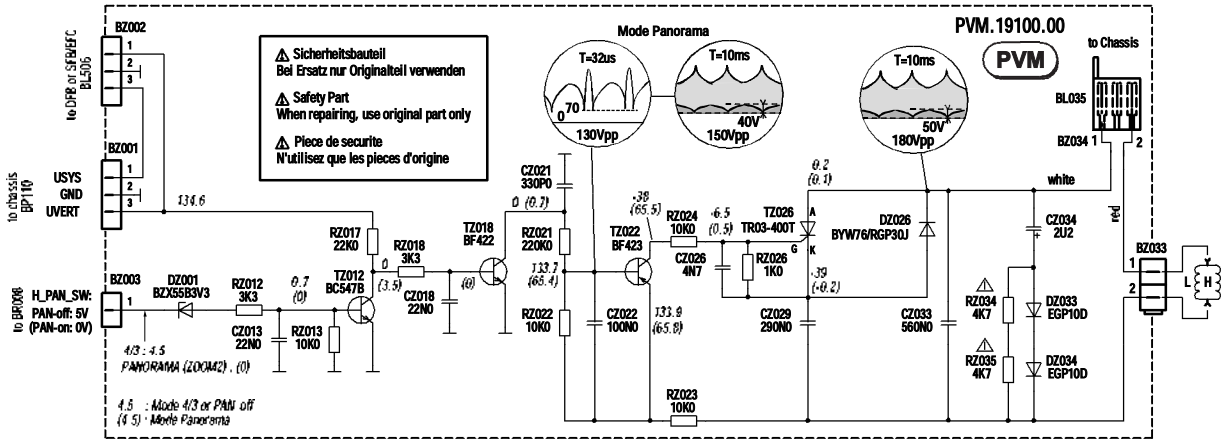
Table with 2 columns: Component ID (e.g., LR021, LR022, LR023) and Location Code (e.g., D7, C5, C6).

Table with 2 columns: Component ID (e.g., RL089, RL070, RL071) and Location Code (e.g., Q9, M7, L9).

Table with 2 columns: Component ID (e.g., RP168, RP170, RP171) and Location Code (e.g., G0, K6, H4).

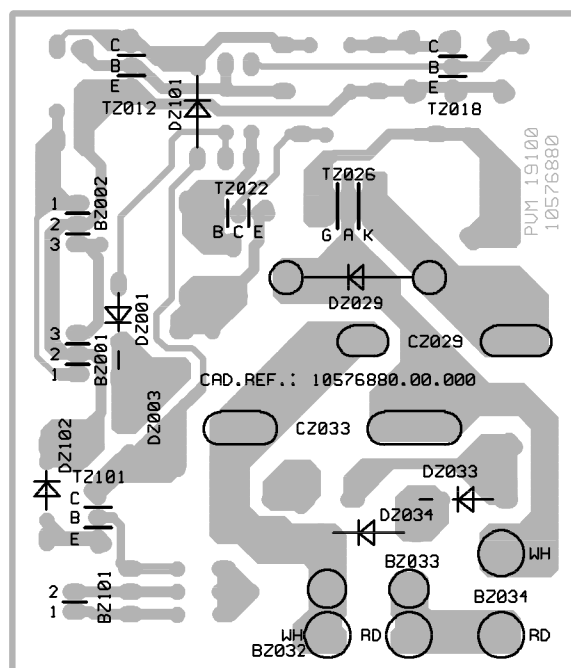
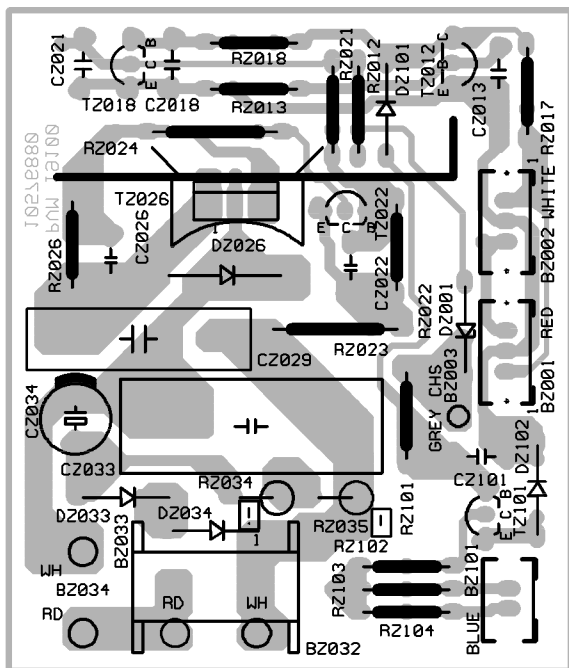
Table with 2 columns: Component ID (e.g., RV084, RV085, RV086) and Location Code (e.g., H5, H5, H5).

PANORAMA MODULE



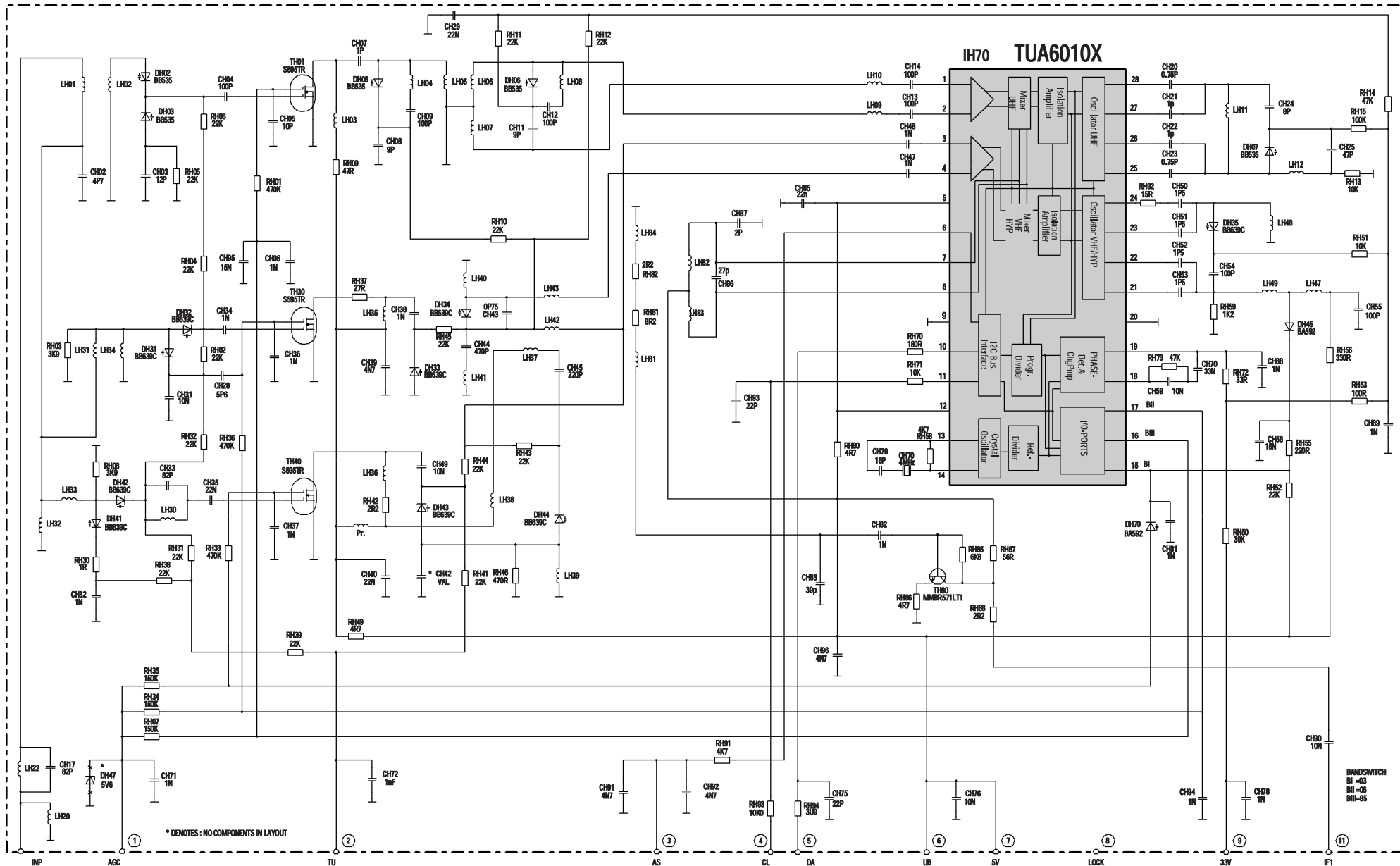
COMPONENT SIDE - CÔTE COMPOSANTS -
BESTÜCKUNGSSEITE - LATO COMPONENTI -
LADO COMPONENTES

SOLDER SIDE - CÔTE SOUDURES -
LÖTSEITE - LATO SALDATURE - LADO SOL-
DADURAS

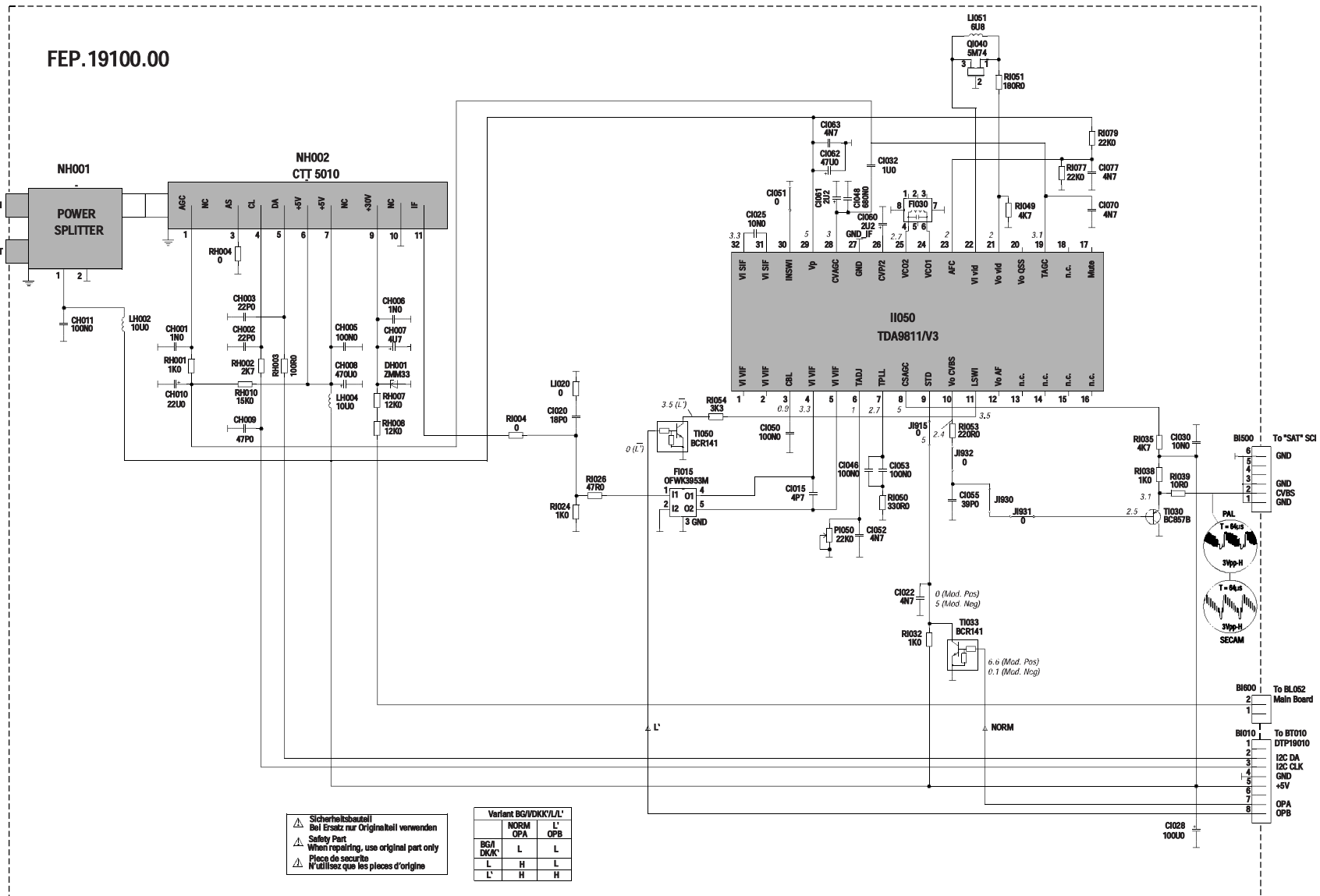


VHF / UHF TUNER CTT5010

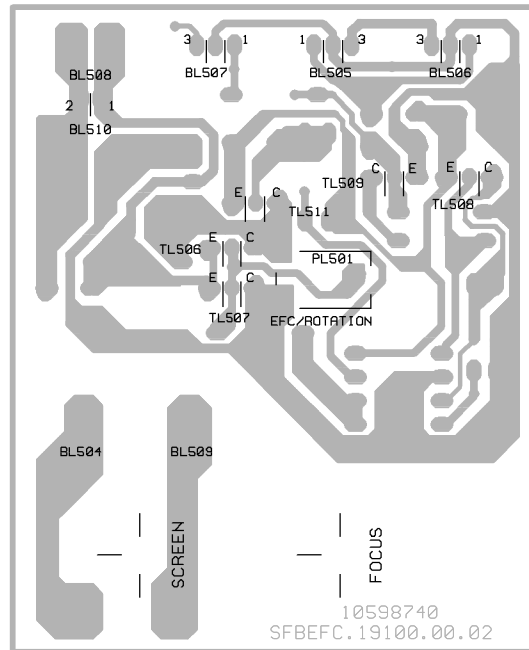
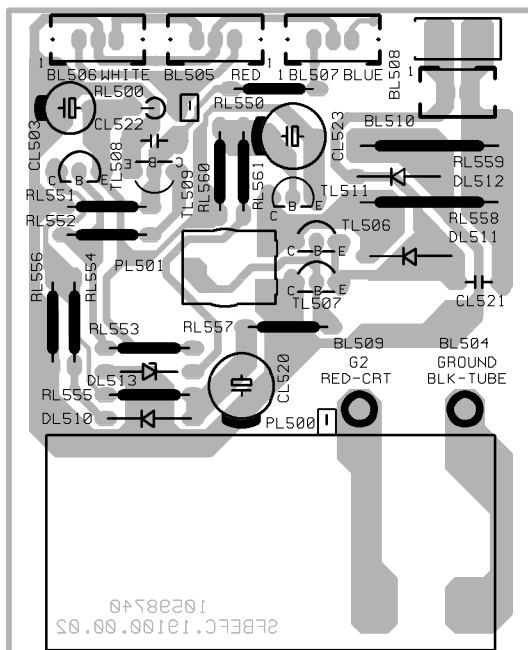
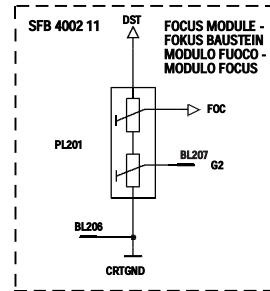
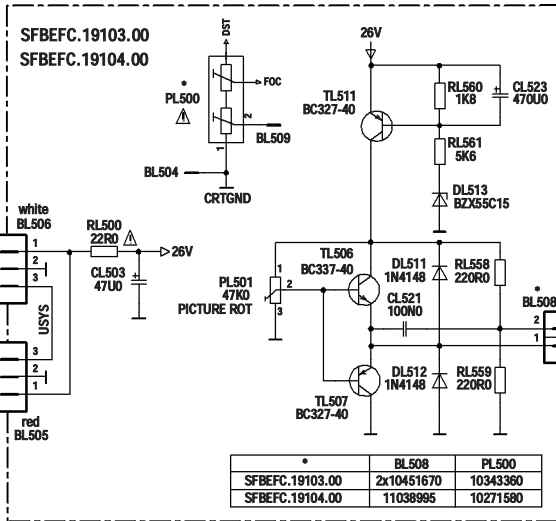
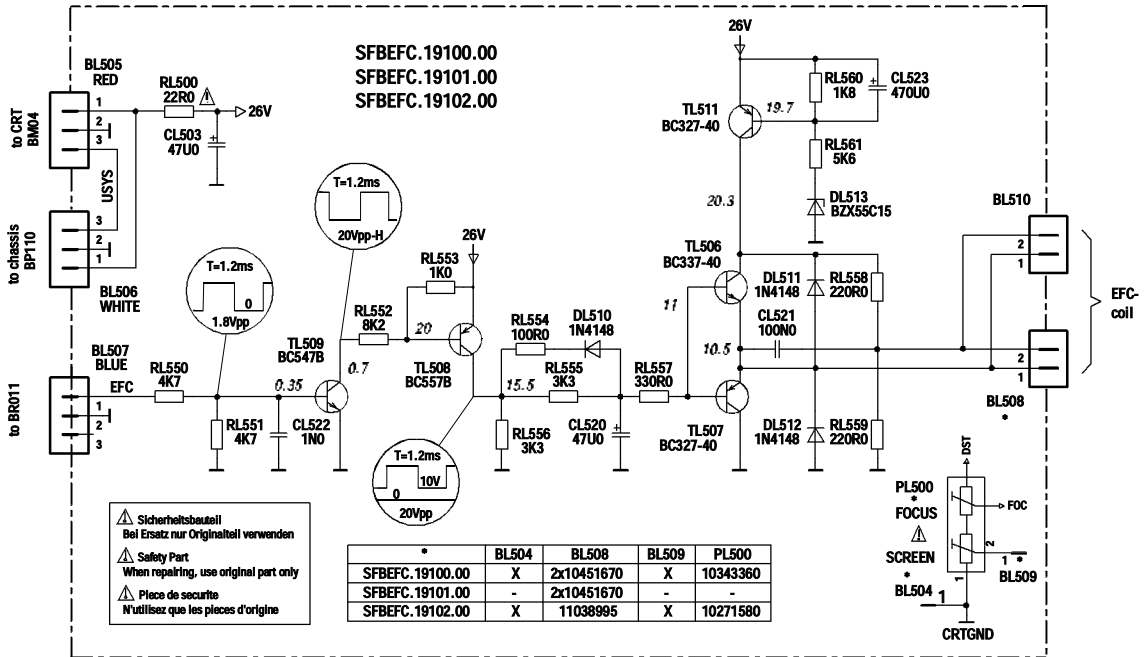
(For information only)



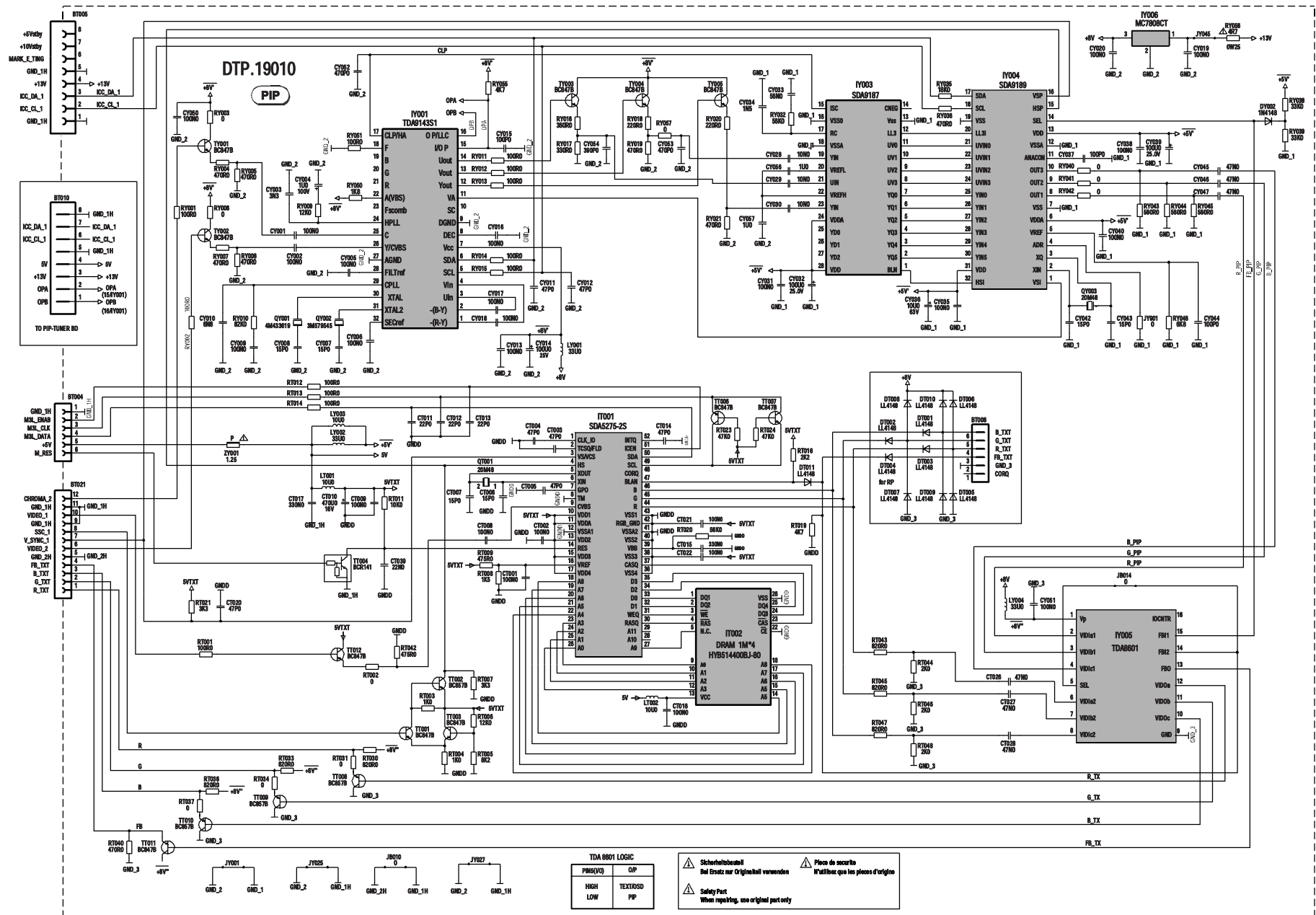
RF - IF PART PIP - TUNER UND ZF PIP - FEP 19100



SINGLE FOCUS / EARTH-FIELD CORRECTION BOARD



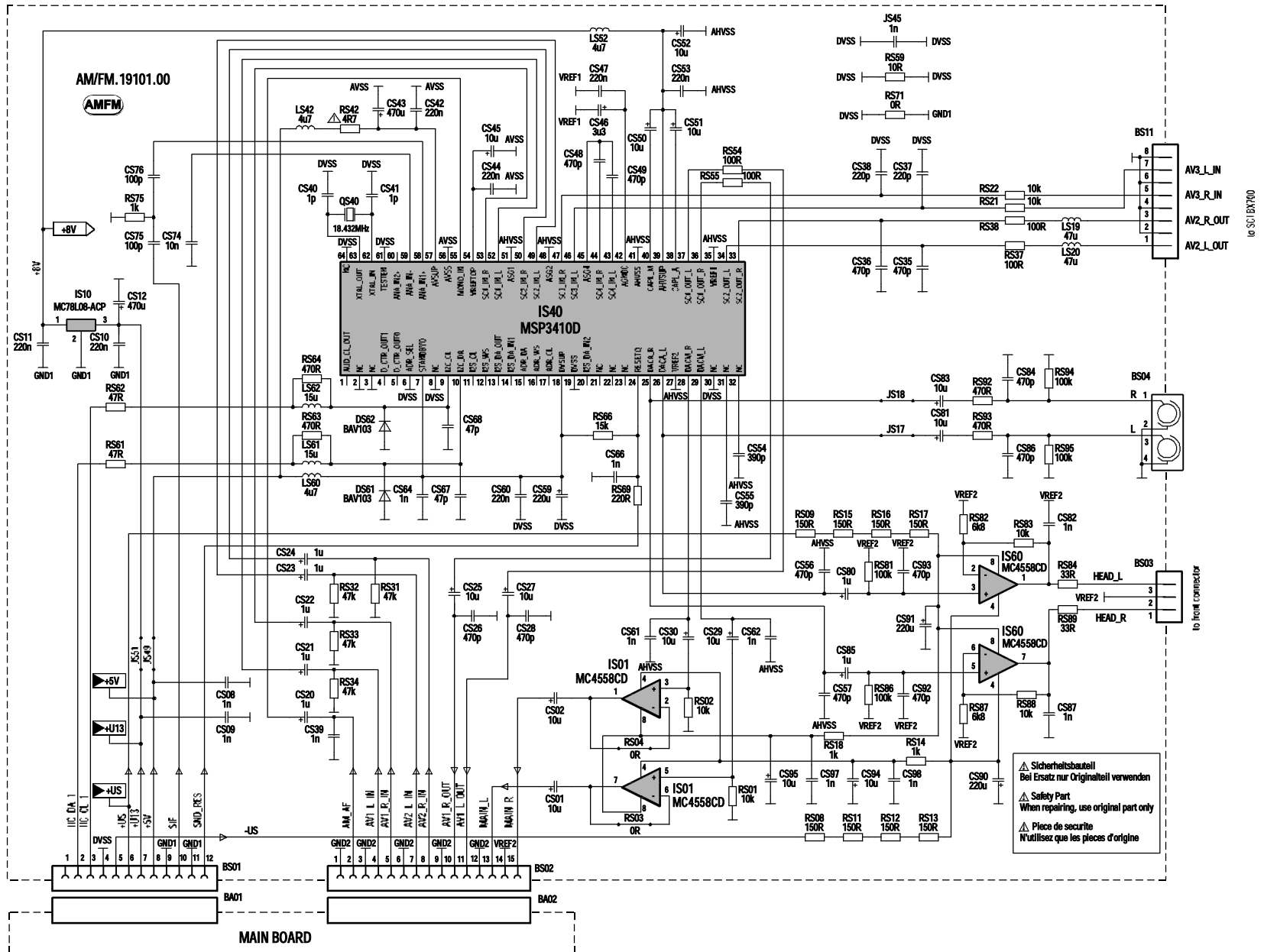
PICTURE IN PICTURE - MODULE IMAGE DANS L'IMAGE - BILD IM BILD BAUSTEIN - MODULO IMMAGINE NELL'IMMAGINE - MODULO IMAGEN EN IMAGEN



TDA 8801 LOGIC	
PWE(V)G	OP
HIGH	TEXT/DSD
LOW	PIP

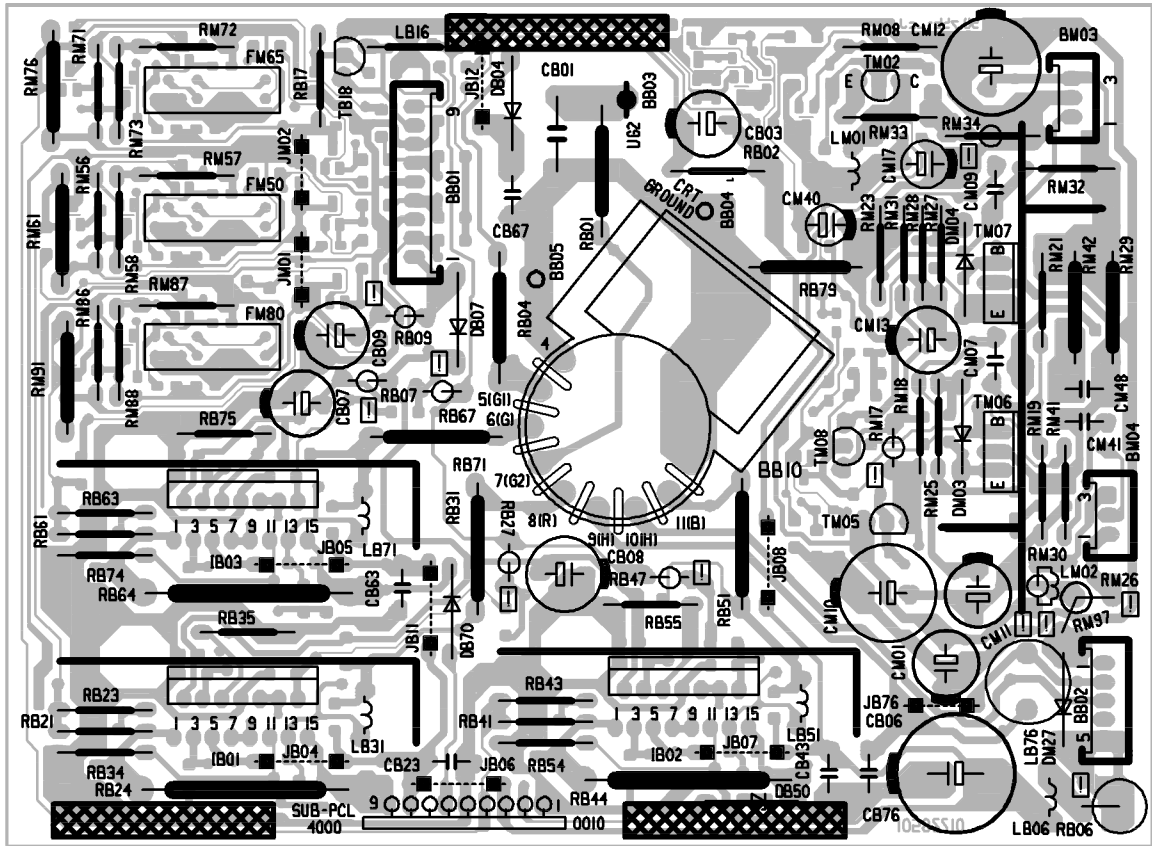
⚠ Sicherheitsbehebel
 Bei Ersatz nur Originalteil verwenden
 ⚠ Piece de securite
 N'utiliser que les pieces d'origine
 ⚠ Safety Part
 When repairing, use original part only

AUDIO SIGNAL MODULE - MODULE AUDIO - TON SIGNAL BAUSTEIN - MODULO AUDIO

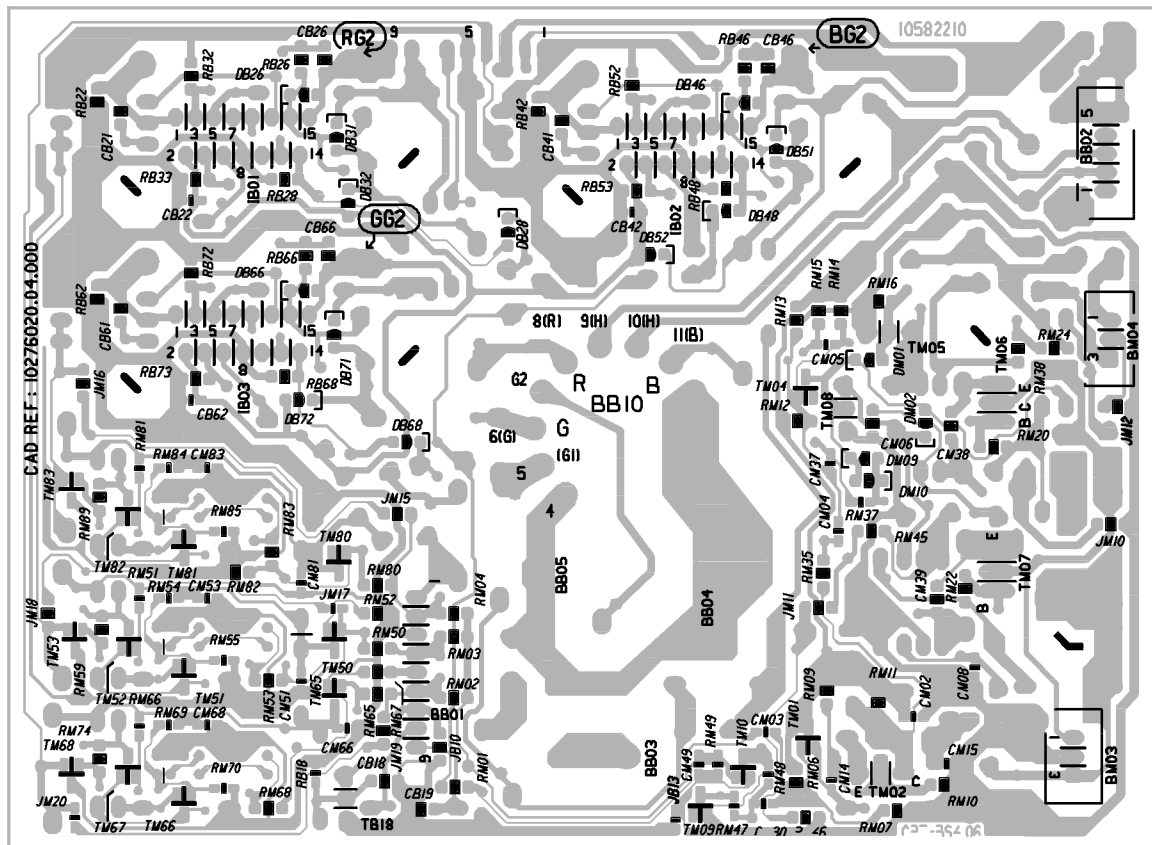


CRT BS19000

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

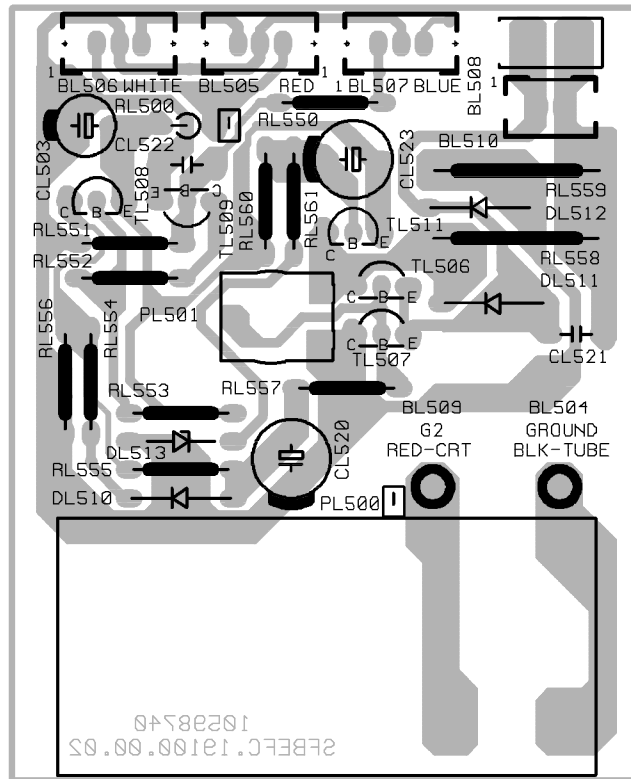


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

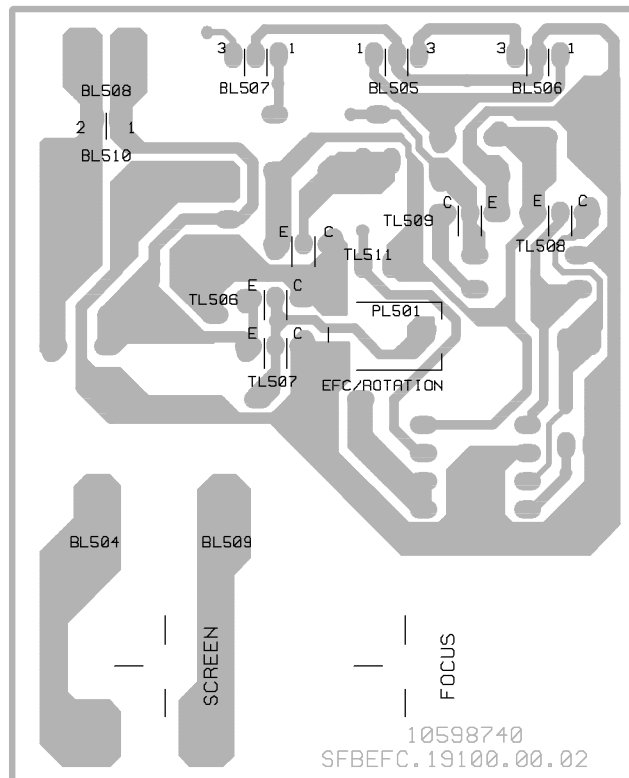


SINGLE FOCUS / EARTH-FIELD CORRECTION BOARD

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

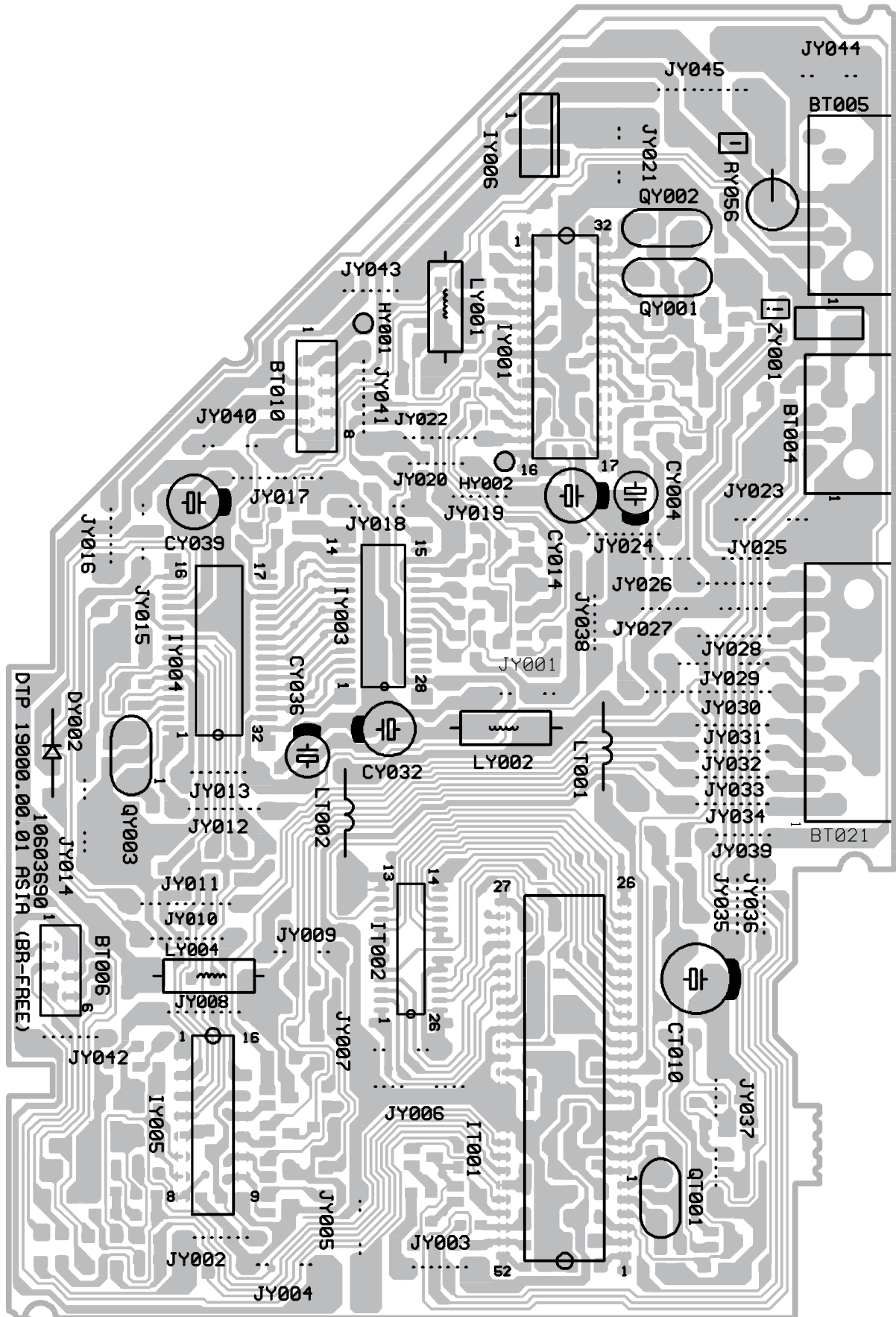


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

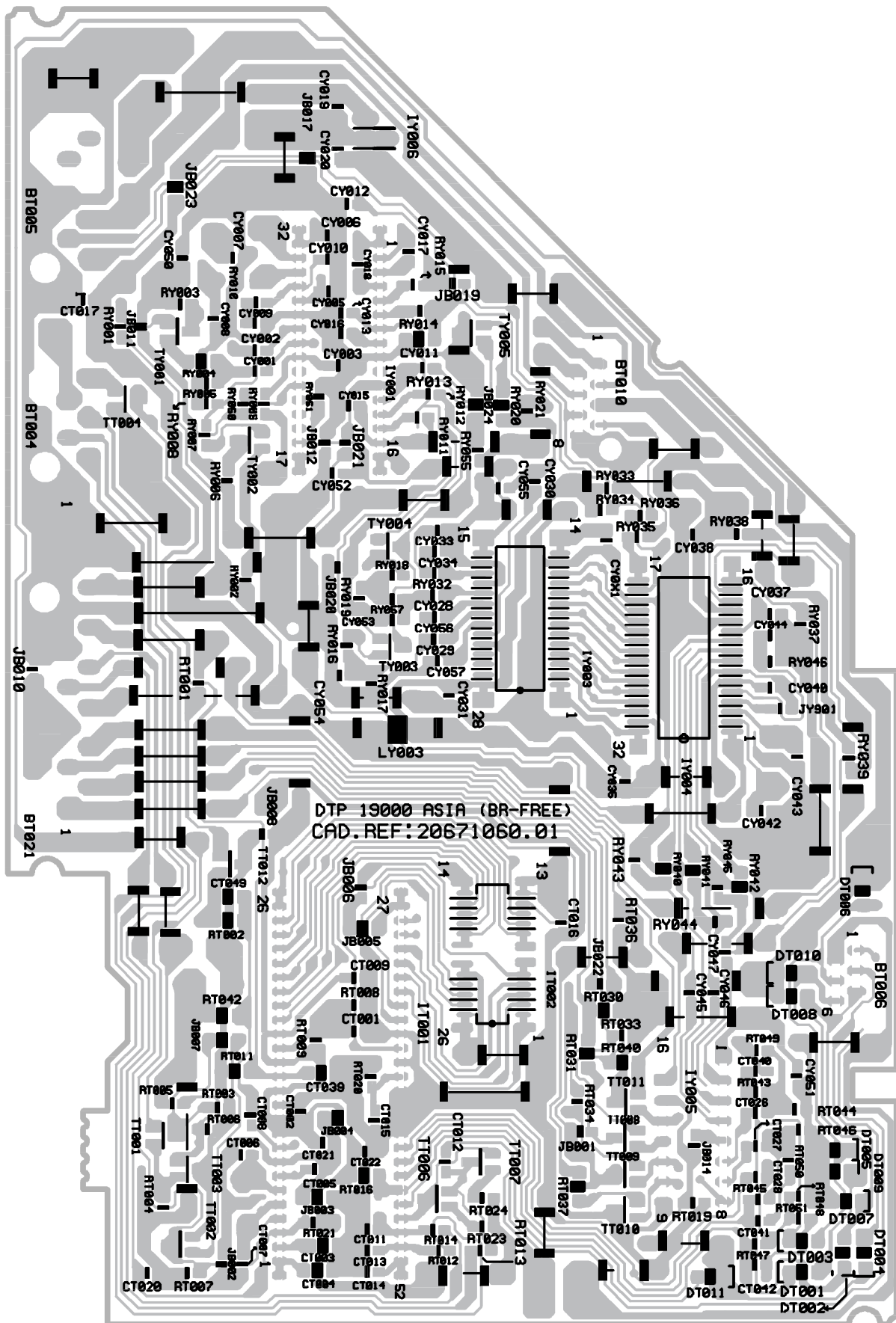


PICTURE IN PICTURE - MODULE IMAGE DANS L'IMAGE - BILD IM BILD BAUSTEIN
 MODULO IMMAGINE NELL' IMMAGINE - MODULO IMAGEN EN IMAGEN

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

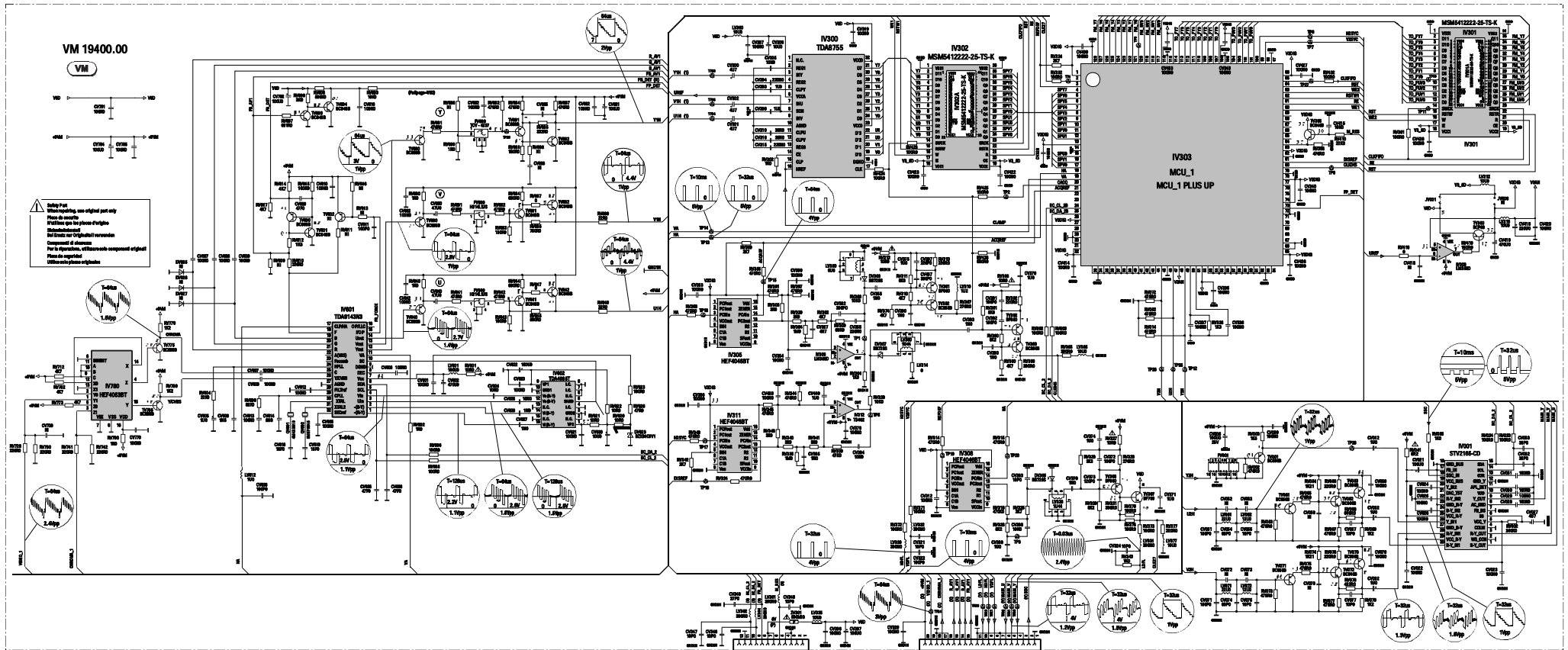


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

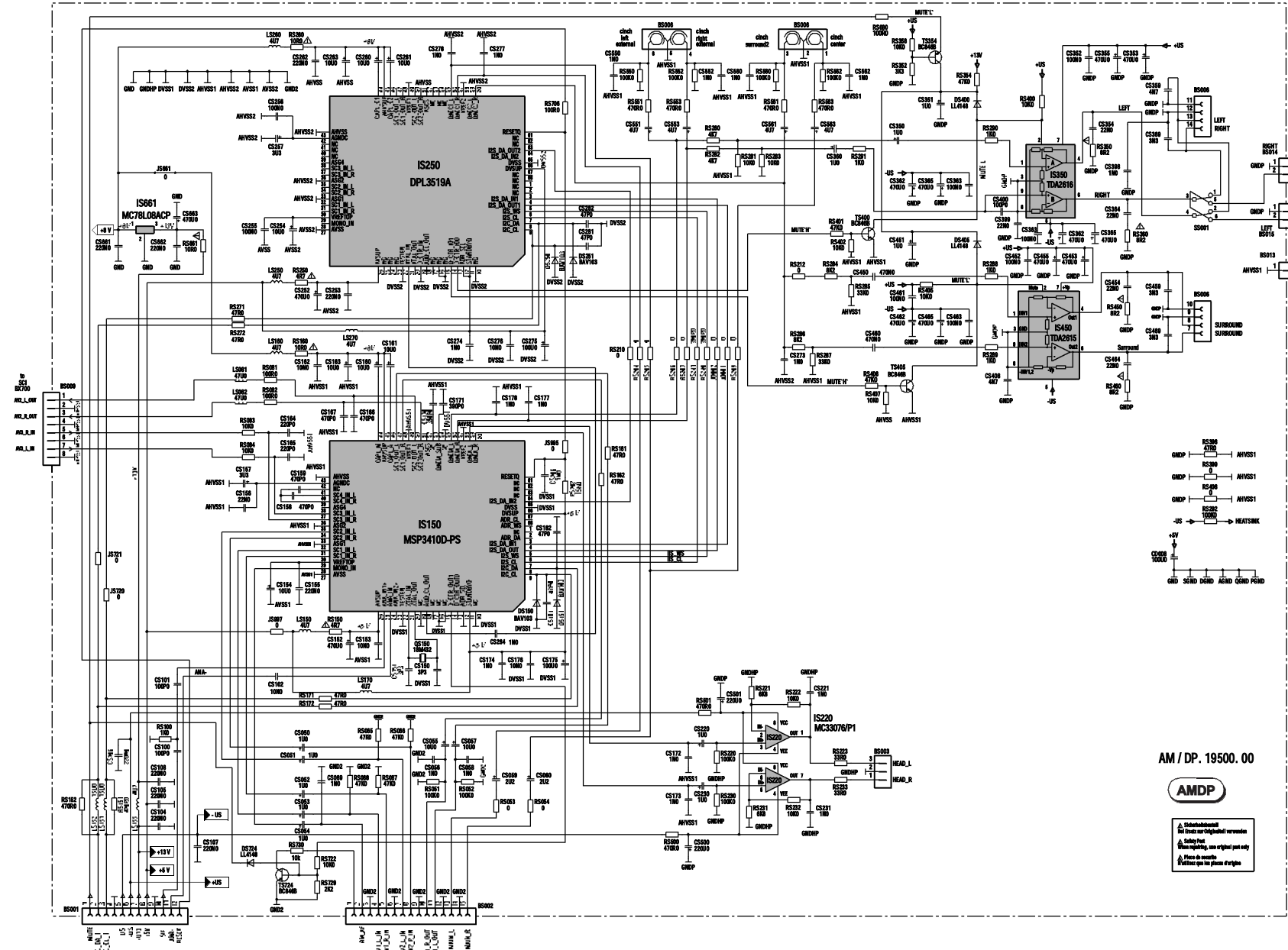


DTP 19000 ASIA (BR-FREE)
CAD. REF: 20671060.01

VIDEO MODULE - MODULE VIDEO - VIDEO BAUSTEIN - MODULO VIDEO - MÓDULO VIDEO
VM 19400



AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC - MODULO AUDIO DOLBY PROLOGIC

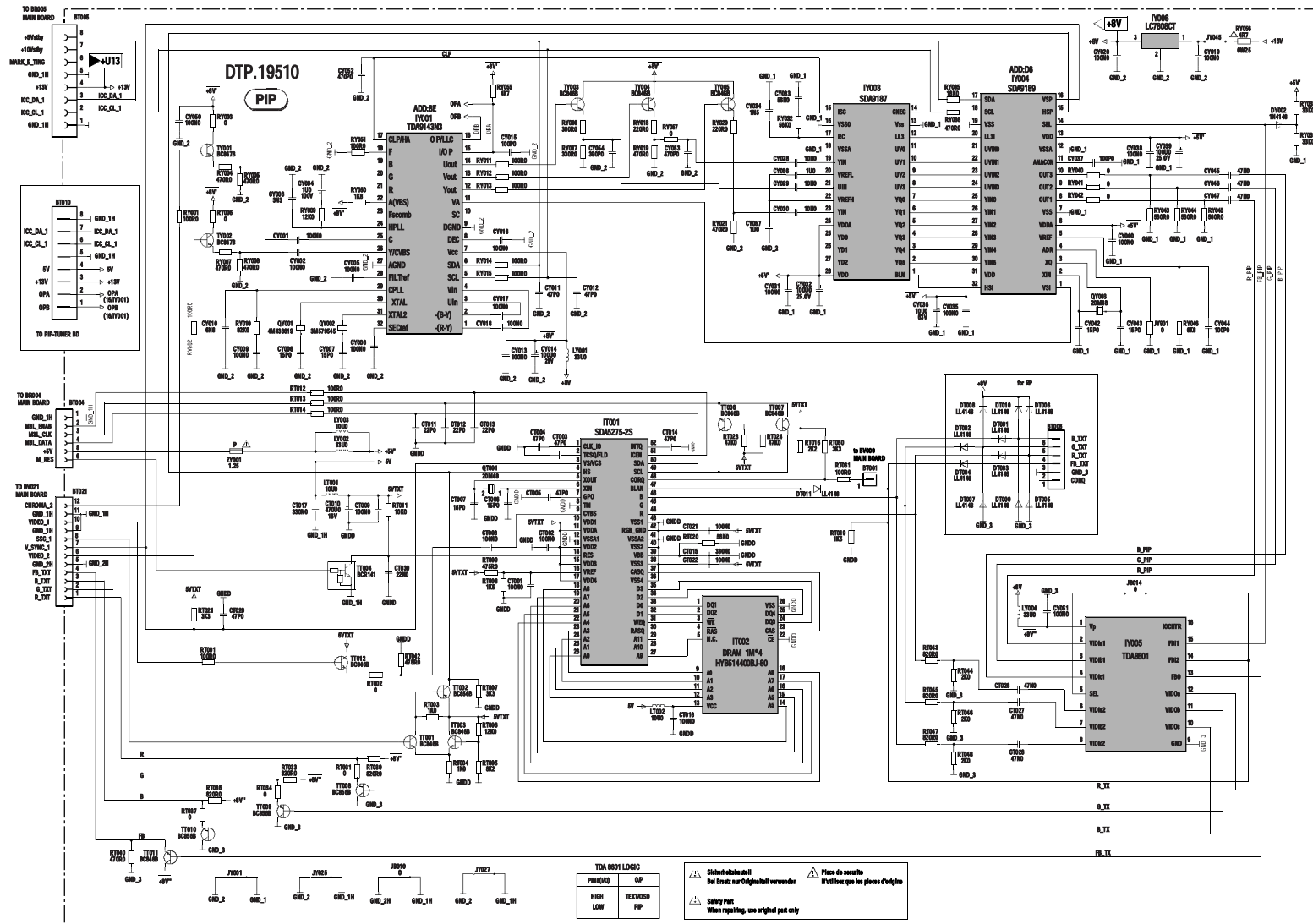


AM / DP. 19500.00

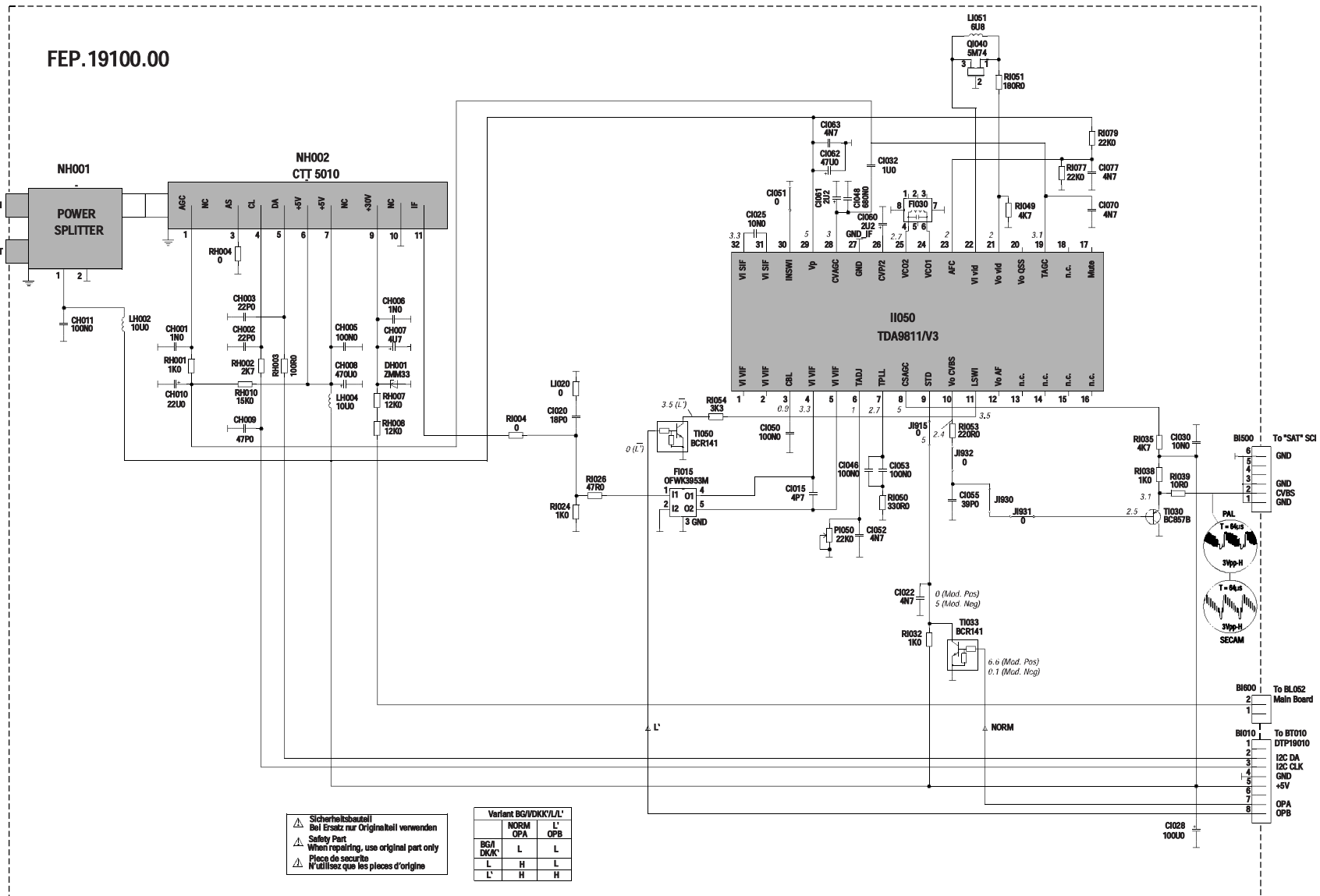


- Ⓜ Schaltungsbestandteil
- Ⓜ Ersatz eines Originalbestandteiles verwenden
- Ⓜ Schütz Pin
- Ⓜ Nicht verlöten, nur original part only
- Ⓜ Pin de montage
- Ⓜ Vérifier que les pins d'origine

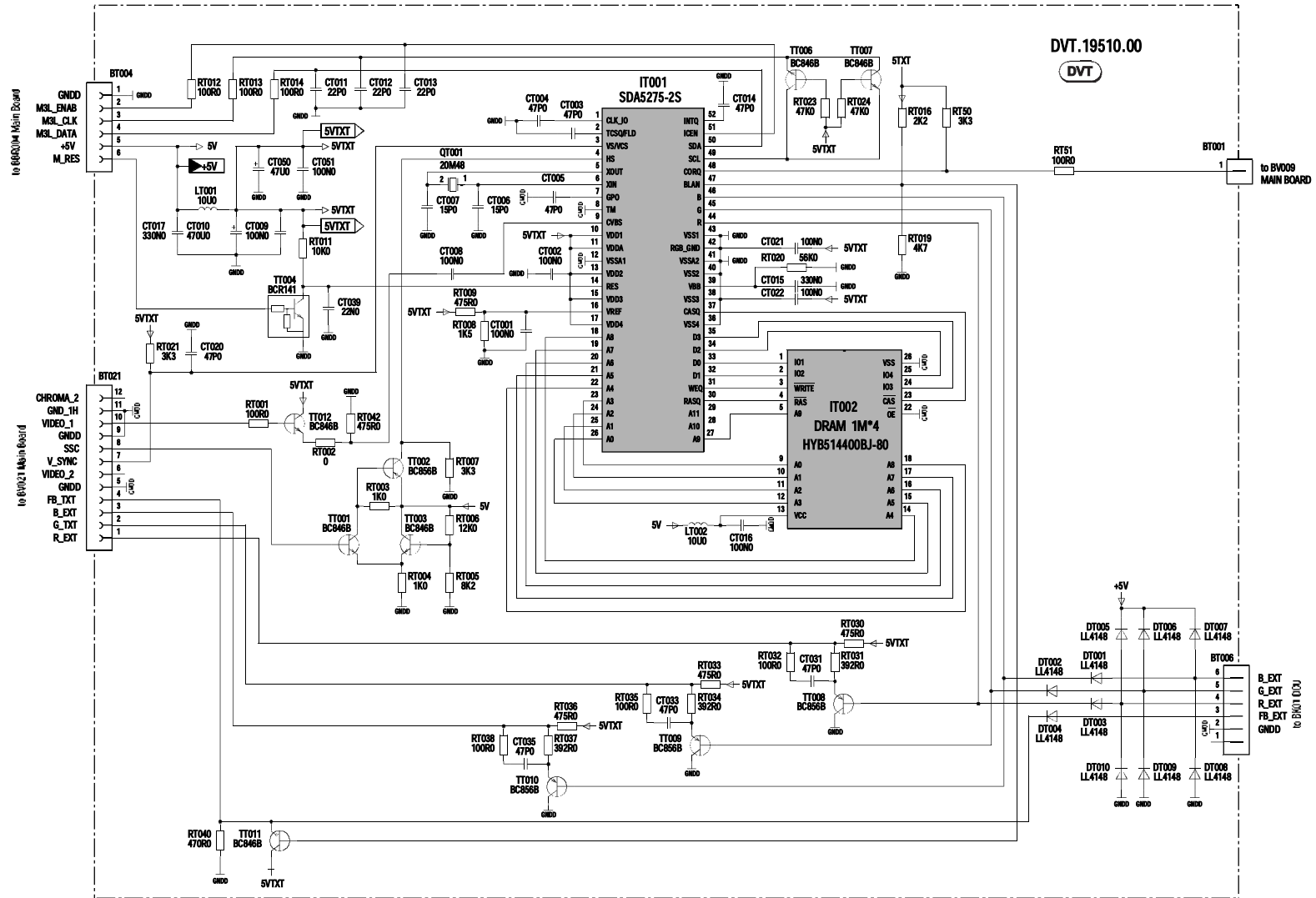
PICTURE IN PICTURE - MODULE IMAGE DANS L'IMAGE - BILD IM BILD BAUSTEIN - MODULO IMMAGINE NELL'IMMAGINE - MODULO IMAGEN EN IMAGEN



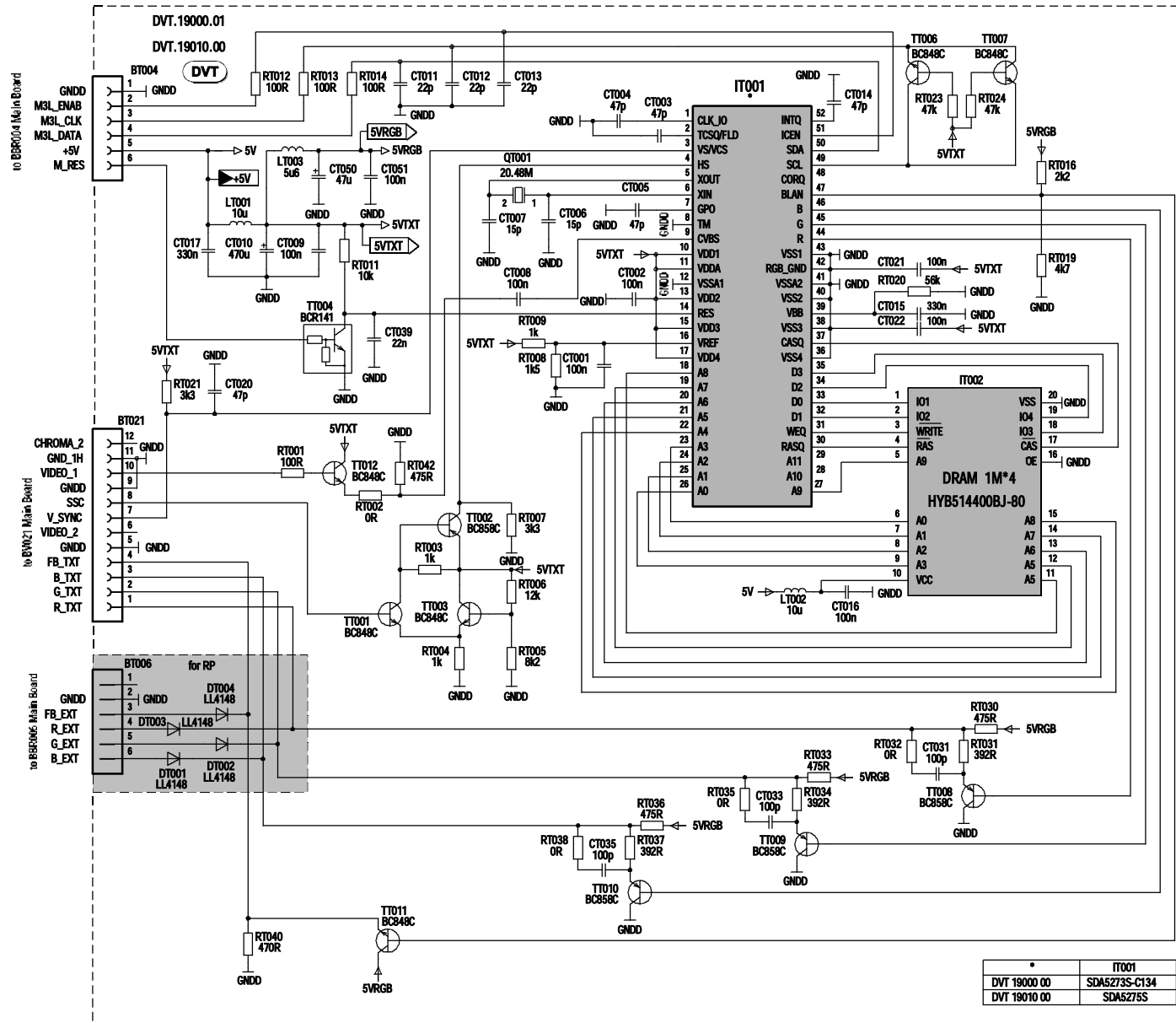
RF - IF PART PIP - TUNER UND ZF PIP - FEP 19100



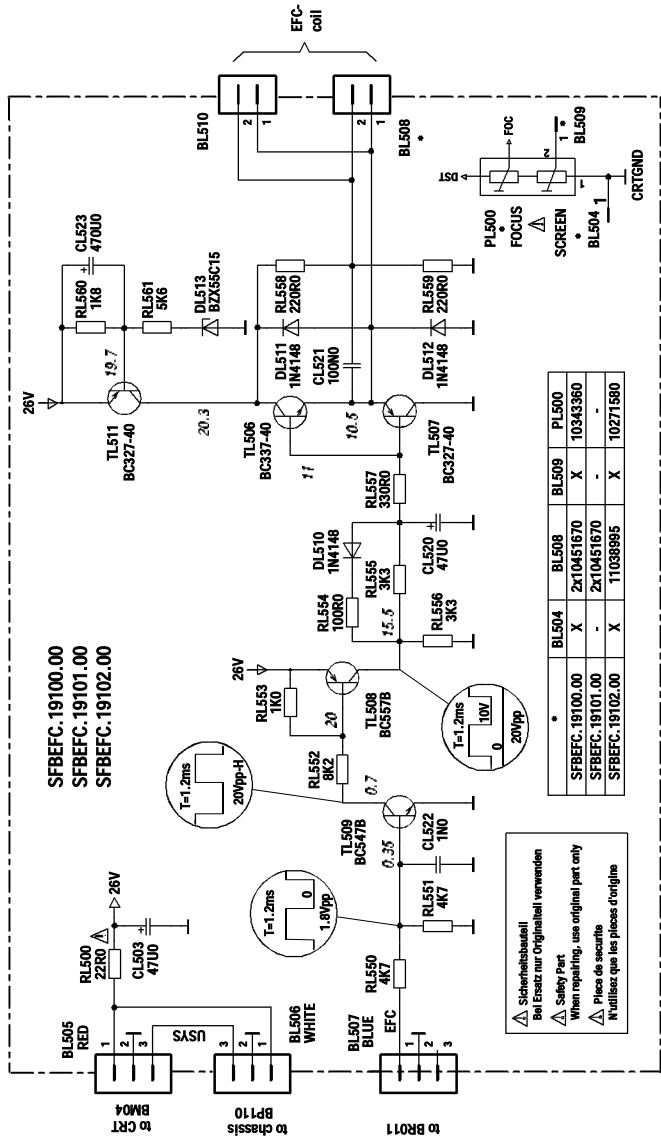
TELETEXT MODULE - MODULE TELETXTTE - VIDEOTEXT MODUL - MODULO TELEVIDEO - MÓDULO TELETXTTO



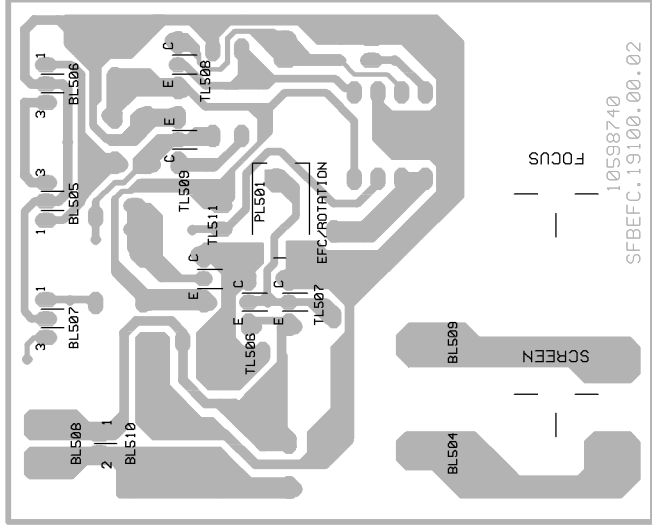
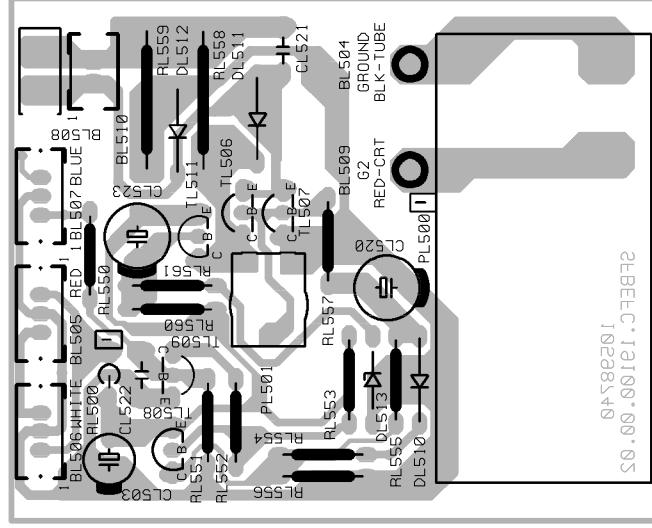
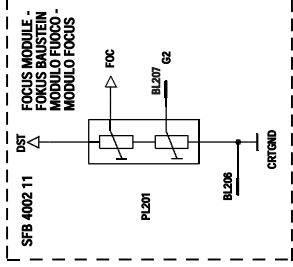
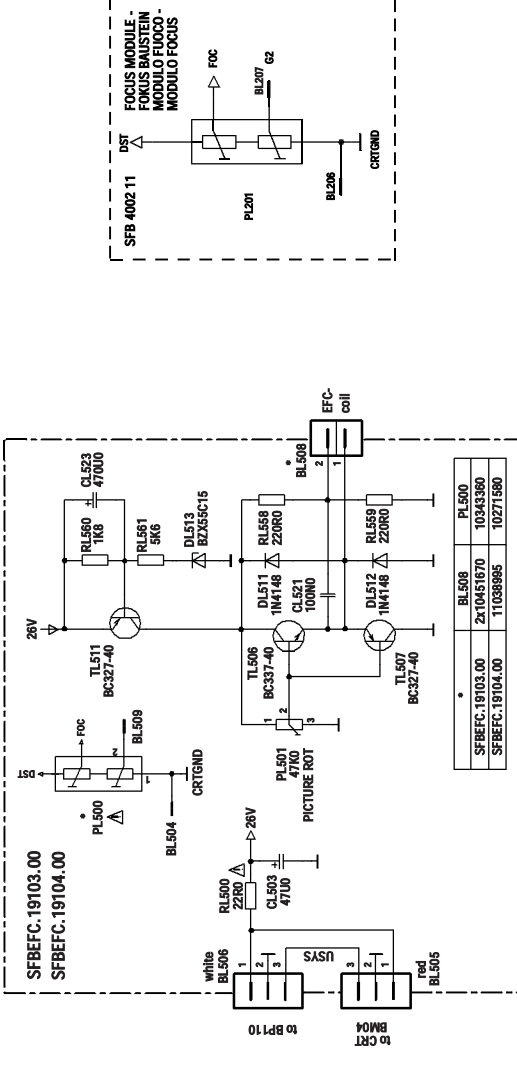
TELETEXT MODULE - MODULE TELETXT - VIDEOTEXT MODUL - MODULO TELEVIDEO - MÓDULO TELETXTO



SINGLE FOCUS / EARTH-FIELD CORRECTION BOARD

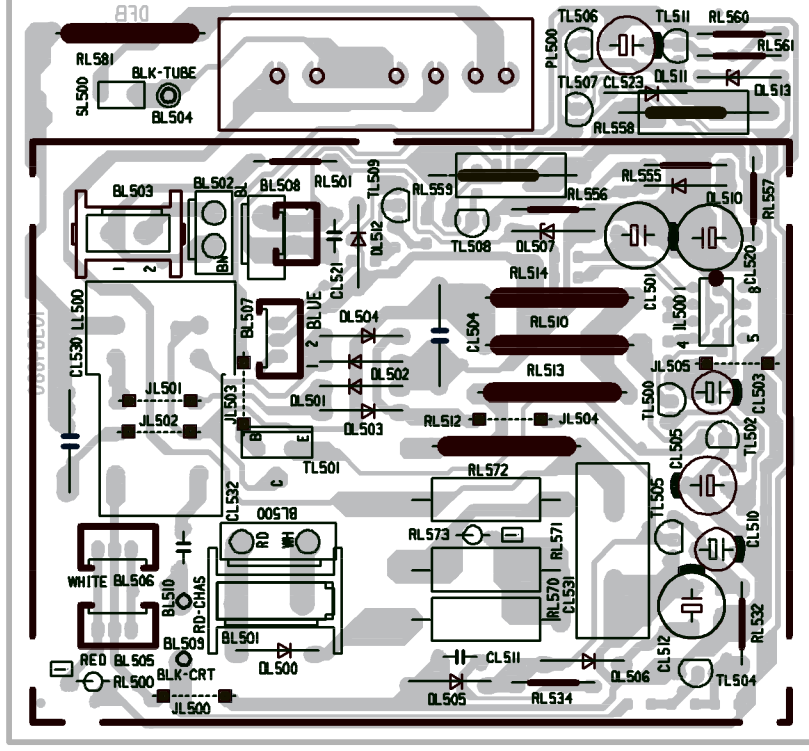


⚠ Sicherheitsbeispiel
 Bei Ersatz nur Originalteil verwenden
 ⚠ Safety Part
 When replacing, use original part only
 ⚠ Pièces de sécurité
 N'utilisez que les pièces d'origine

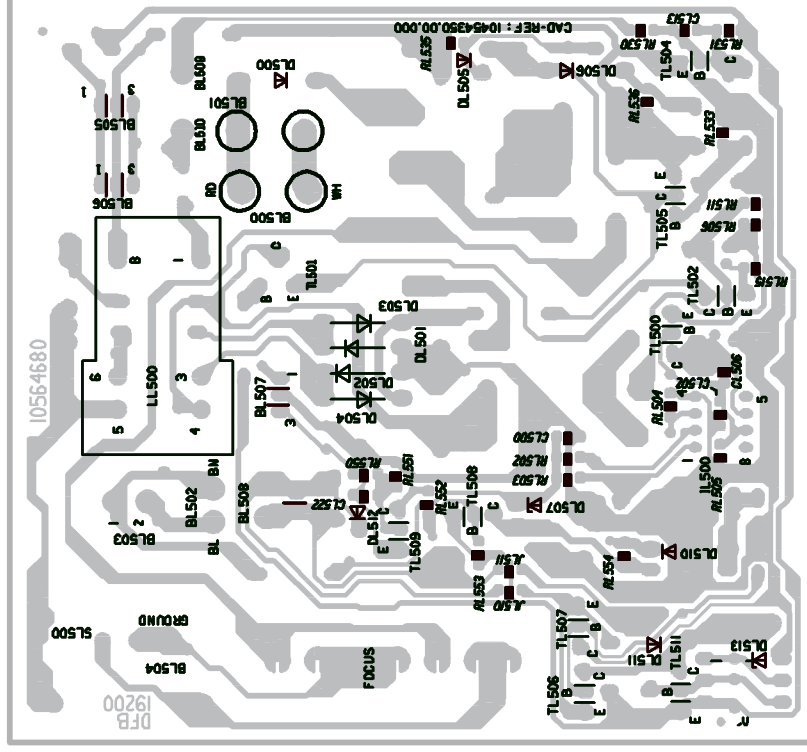


**DYNAMIC FOCUS MODULE - MODULE FOCUS DYNAMIQUE - DYNAMIKFOKUS BAU-
STEIN - MODULO FUOCO DINAMICO - MÓDULO FOCO DINÁMICO**

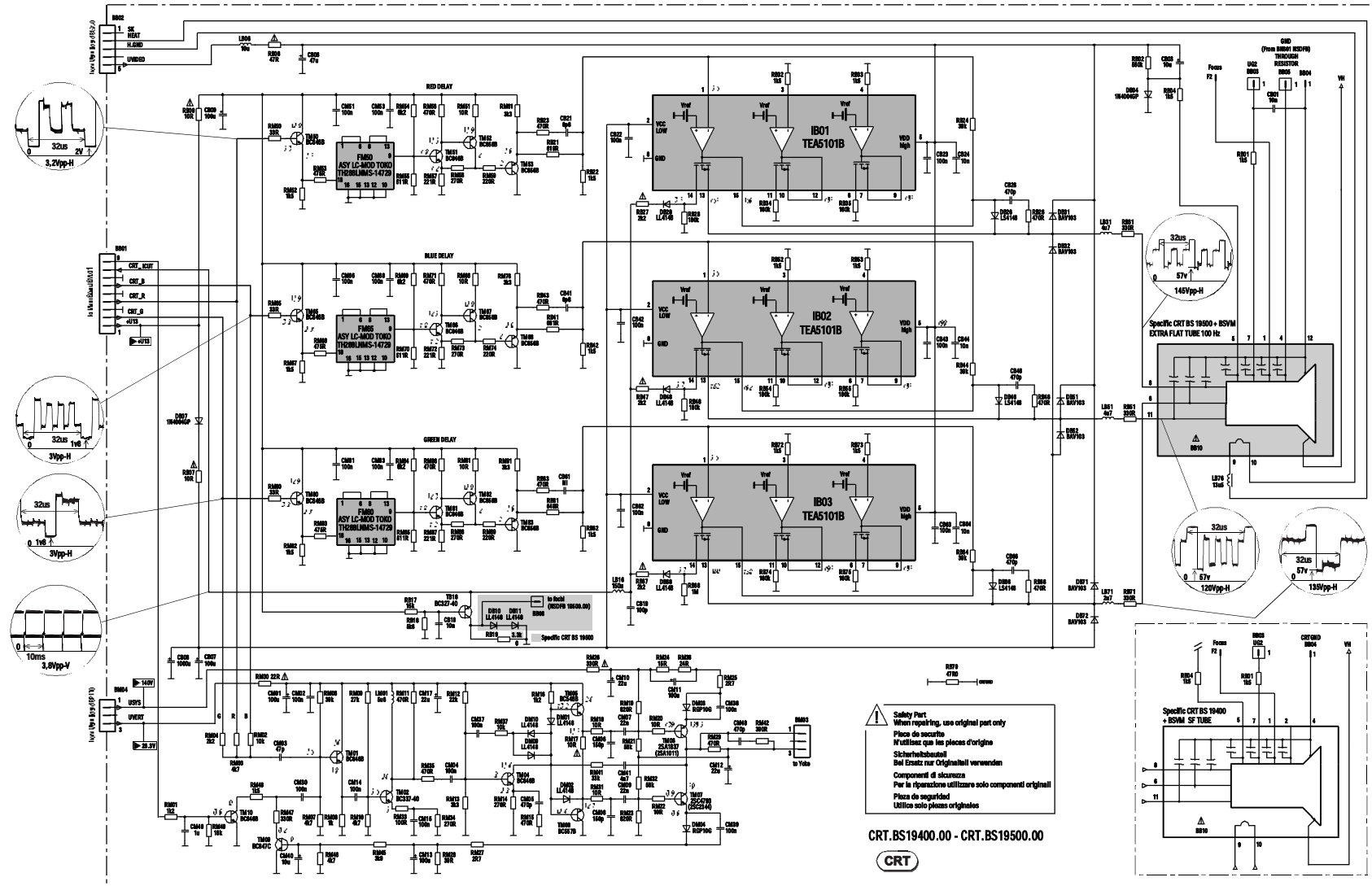
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



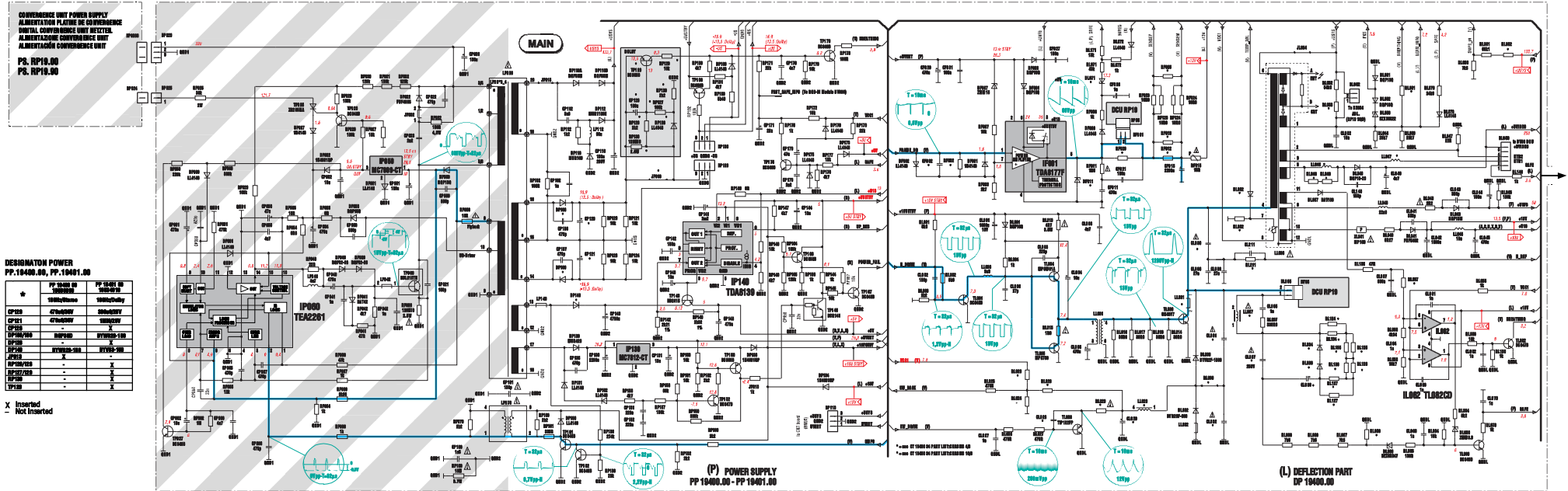
SOLDER SIDE - CÔTE SOUDURES - LÔTSEITE - LATO SOLDADURAS



**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
CRT BS19400 - CRT BS19500**



MAIN SCHEMATIC DIAGRAM - SCHEMA PLATINE PRINCIPALE - SCHALTUNG HAUPTPLATINE - SCHEMA PIASTRA PRINCIPALE - ESQUEMA PLATINA PRINCIPAL



DESIGNATOR POWER
PP 19400.00, PP 19401.00

*	PP 19400.00	PP 19401.00
CP20	4700pF	1000pF
CP21	4700pF	1000pF
CP22	1000pF	1000pF
CP23	1000pF	1000pF
CP24	1000pF	1000pF
CP25	1000pF	1000pF
CP26	1000pF	1000pF
CP27	1000pF	1000pF
CP28	1000pF	1000pF
CP29	1000pF	1000pF
CP30	1000pF	1000pF
CP31	1000pF	1000pF
CP32	1000pF	1000pF
CP33	1000pF	1000pF
CP34	1000pF	1000pF
CP35	1000pF	1000pF
CP36	1000pF	1000pF
CP37	1000pF	1000pF
CP38	1000pF	1000pF
CP39	1000pF	1000pF
CP40	1000pF	1000pF
CP41	1000pF	1000pF
CP42	1000pF	1000pF
CP43	1000pF	1000pF
CP44	1000pF	1000pF
CP45	1000pF	1000pF
CP46	1000pF	1000pF
CP47	1000pF	1000pF
CP48	1000pF	1000pF
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CP56	1000pF	1000pF
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CP89	1000pF	1000pF
CP90	1000pF	1000pF
CP91	1000pF	1000pF
CP92	1000pF	1000pF
CP93	1000pF	1000pF
CP94	1000pF	1000pF
CP95	1000pF	1000pF
CP96	1000pF	1000pF
CP97	1000pF	1000pF
CP98	1000pF	1000pF
CP99	1000pF	1000pF
CP100	1000pF	1000pF

X Inserted
- Not inserted

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netztales.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

Use isolating mains transformer
Utilisez un transformateur isolateur du secteur
Ennen Trenntrafo verwenden
Utilizar un transformador aislador de red
Utilizzare un trasformatore per isolarvi dalla rete

Relts :
Power Supply primary circuit measurements.
- Use only (GND1) connection point.
Attention :
Mesure dans la partie primaire de l'alimentation
- Utilisez la masse du bloc alimentation (GND1).
Achtung :
Bei Messungen im Primärnetzteil
- Primärnetzteilmasse verwenden (GND1).
Attenzione :
misura nell'alimentatore primario
- usare massa alimentazione primario (GND1).
Cuidado :
Medida en el bloque de alimentación
- Utilizar la masa del bloque de alimentación (GND1).

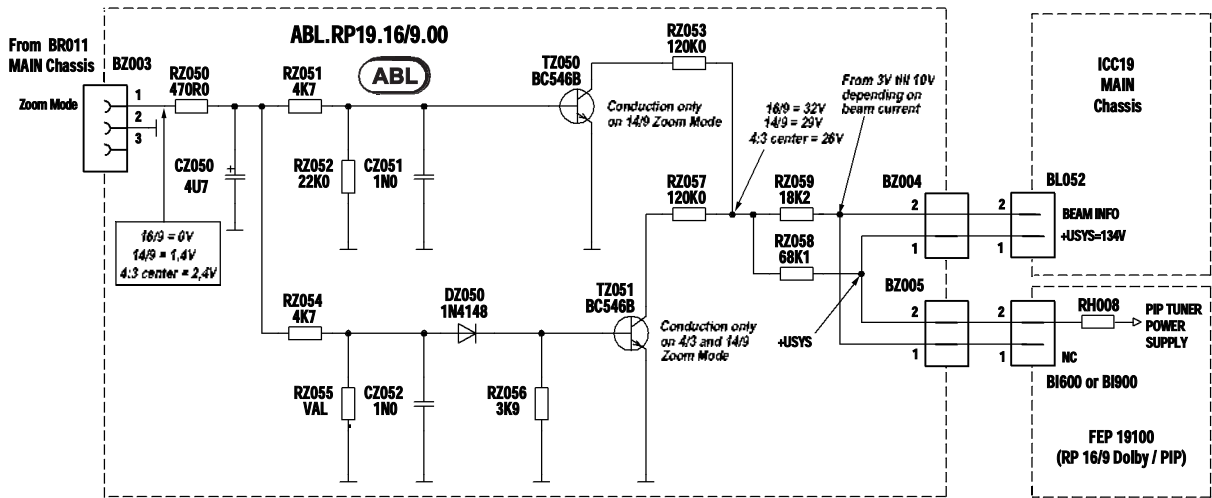
⚠ Safety Part
When repairing, use original part only
Pièce de sécurité
N'utilisez que les pièces d'origine
Sicherheitsbauteil
Bei Ersatz nur Originalteile verwenden
Componenti di sicurezza
Per la riparazione utilizzare solo componenti originali
Pieza de seguridad
Utilice solo piezas originales

Deflection - Bando Partibus	Deflection - Bando Partibus
CT 19400.00	CT 19400.00
CT 19401.00	CT 19401.00
CT 19402.00	CT 19402.00
CT 19403.00	CT 19403.00
CT 19404.00	CT 19404.00
CT 19405.00	CT 19405.00
CT 19406.00	CT 19406.00
CT 19407.00	CT 19407.00
CT 19408.00	CT 19408.00
CT 19409.00	CT 19409.00
CT 19410.00	CT 19410.00
CT 19411.00	CT 19411.00
CT 19412.00	CT 19412.00
CT 19413.00	CT 19413.00
CT 19414.00	CT 19414.00
CT 19415.00	CT 19415.00
CT 19416.00	CT 19416.00
CT 19417.00	CT 19417.00
CT 19418.00	CT 19418.00
CT 19419.00	CT 19419.00
CT 19420.00	CT 19420.00
CT 19421.00	CT 19421.00
CT 19422.00	CT 19422.00
CT 19423.00	CT 19423.00
CT 19424.00	CT 19424.00
CT 19425.00	CT 19425.00
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CT 19431.00	CT 19431.00
CT 19432.00	CT 19432.00
CT 19433.00	CT 19433.00
CT 19434.00	CT 19434.00
CT 19435.00	CT 19435.00
CT 19436.00	CT 19436.00
CT 19437.00	CT 19437.00
CT 19438.00	CT 19438.00
CT 19439.00	CT 19439.00
CT 19440.00	CT 19440.00

Deflection - Bando Partibus	Deflection - Bando Partibus
CT 19400.00	CT 19400.00
CT 19401.00	CT 19401.00
CT 19402.00	CT 19402.00
CT 19403.00	CT 19403.00
CT 19404.00	CT 19404.00
CT 19405.00	CT 19405.00
CT 19406.00	CT 19406.00
CT 19407.00	CT 19407.00
CT 19408.00	CT 19408.00
CT 19409.00	CT 19409.00
CT 19410.00	CT 19410.00
CT 19411.00	CT 19411.00
CT 19412.00	CT 19412.00
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CT 19414.00	CT 19414.00
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CT 19416.00	CT 19416.00
CT 19417.00	CT 19417.00
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CT 19419.00	CT 19419.00
CT 19420.00	CT 19420.00
CT 19421.00	CT 19421.00
CT 19422.00	CT 19422.00
CT 19423.00	CT 19423.00
CT 19424.00	CT 19424.00
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CT 19426.00	CT 19426.00
CT 19427.00	CT 19427.00
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CT 19432.00	CT 19432.00
CT 19433.00	CT 19433.00
CT 19434.00	CT 19434.00
CT 19435.00	CT 19435.00
CT 19436.00	CT 19436.00
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CT 19438.00	CT 19438.00
CT 19439.00	CT 19439.00
CT 19440.00	CT 19440.00

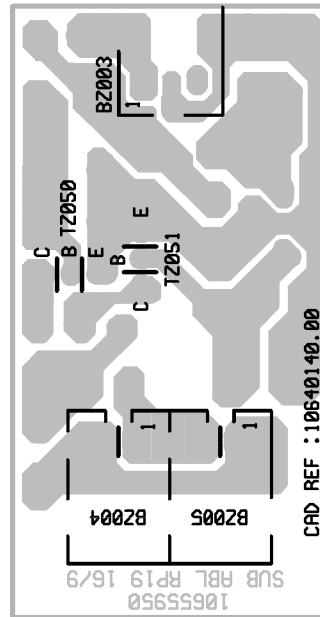
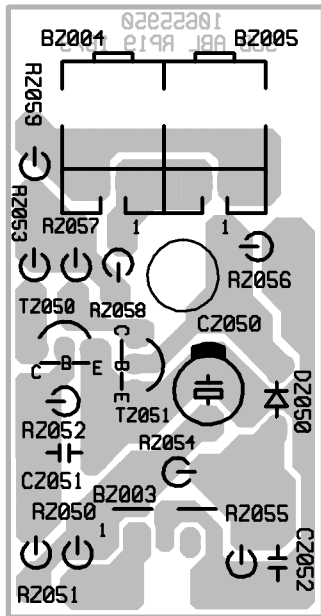
Note : the last two numbers of the CT xxxx part list name indicates the system voltage.
e.g. CT 19400 34 → Ulys 134V
Note : Les deux derniers chiffres de la liste des composants CT xxxx représentent la tension système.
e.g. CT 19400 34 → Ulys 134V
Note : Los dos últimos números de la denominación CT xxxx, indica la tensión Ulys
e.g. CT 19400 34 → Ulys 134V

**AVERAGE BEAM LIMITER - LIMITATION DU COURANT DE FAISEAU -
 STRAHLSTROM BEGRENZUNG - LIMITATORE CORRENTE DI RAGGIO -
 LIMITADOR DE CORRIENTE DE HAZ**



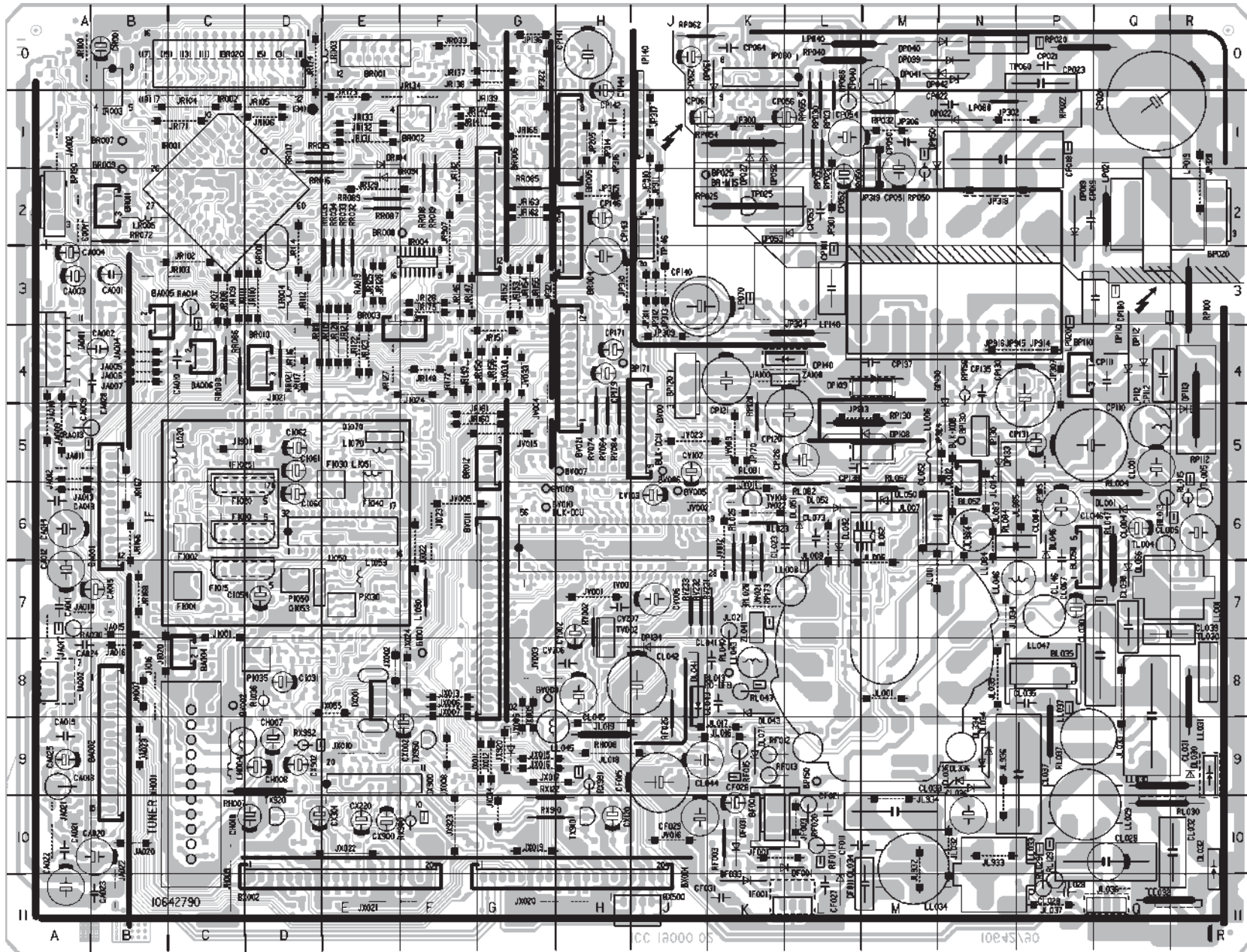
COMPONENT SIDE - COTE COMPOSANTS -
 BESTÜCKUNGSSEITE
 LATO COMPONENTI - LADO COMPONENTES

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

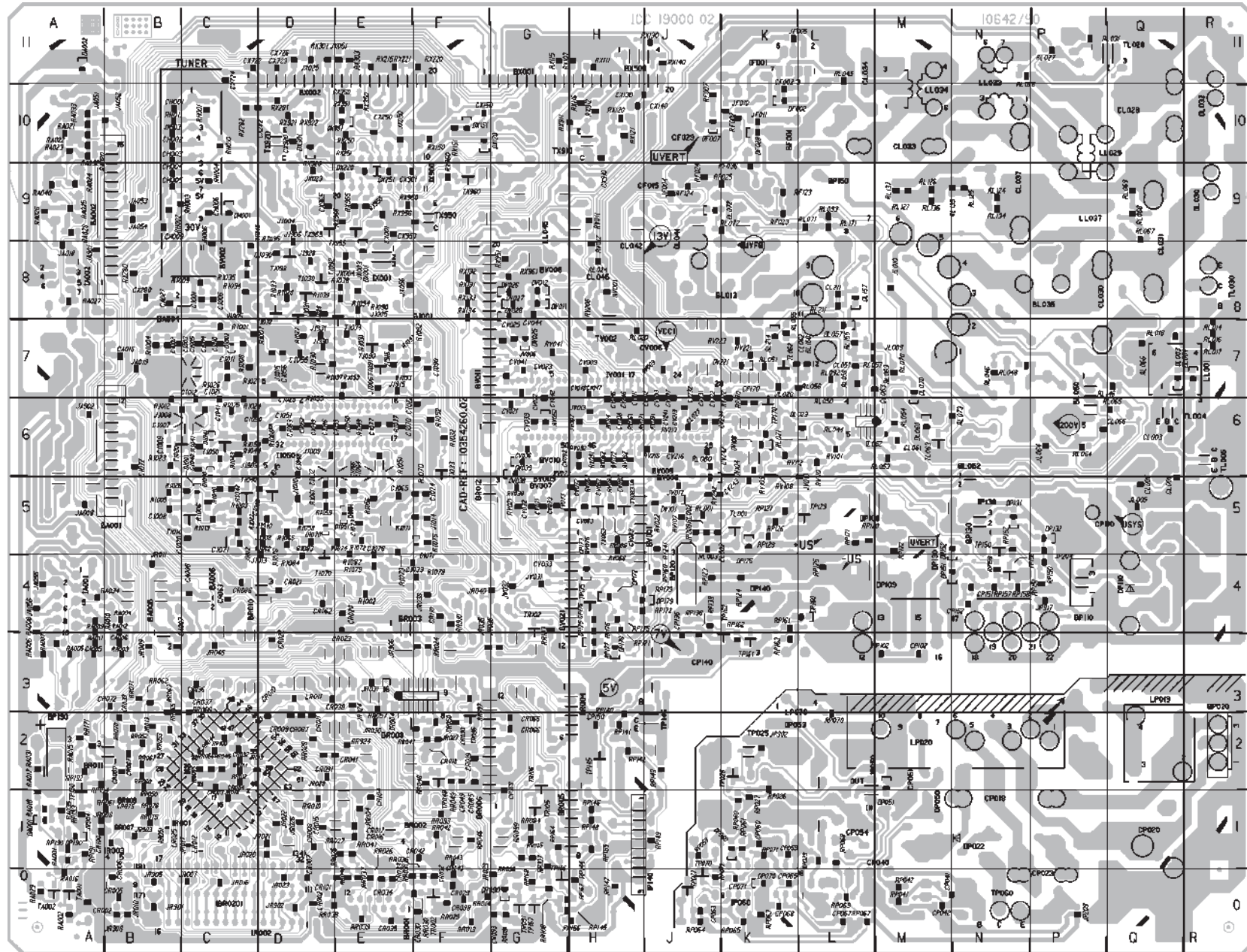


MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE - PLATINA PRINCIPAL

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

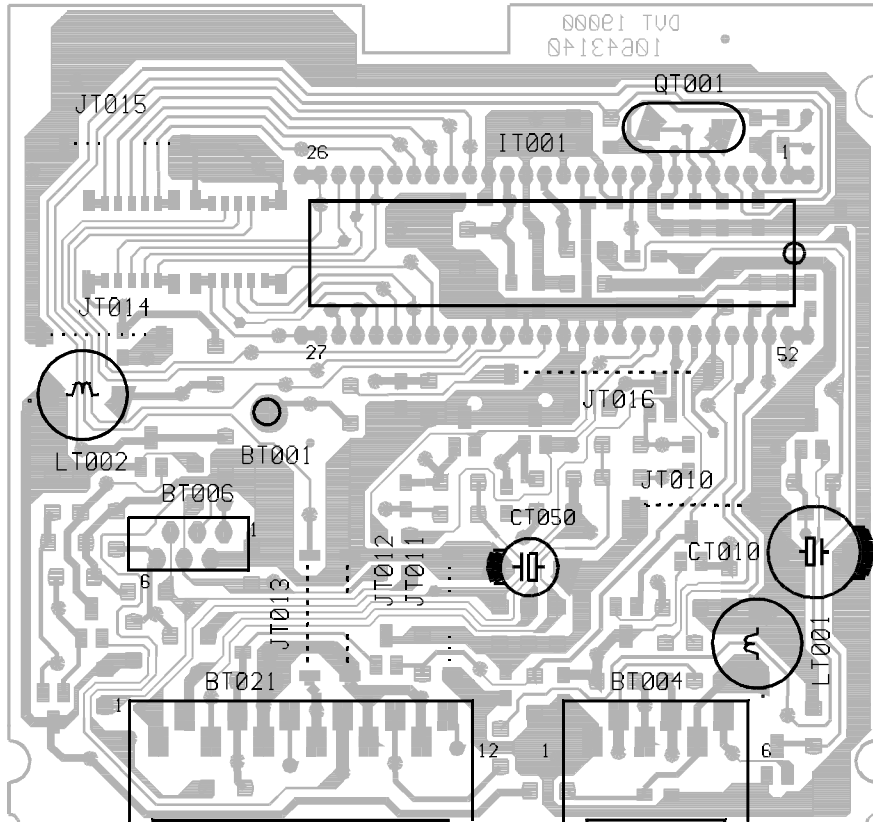


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS

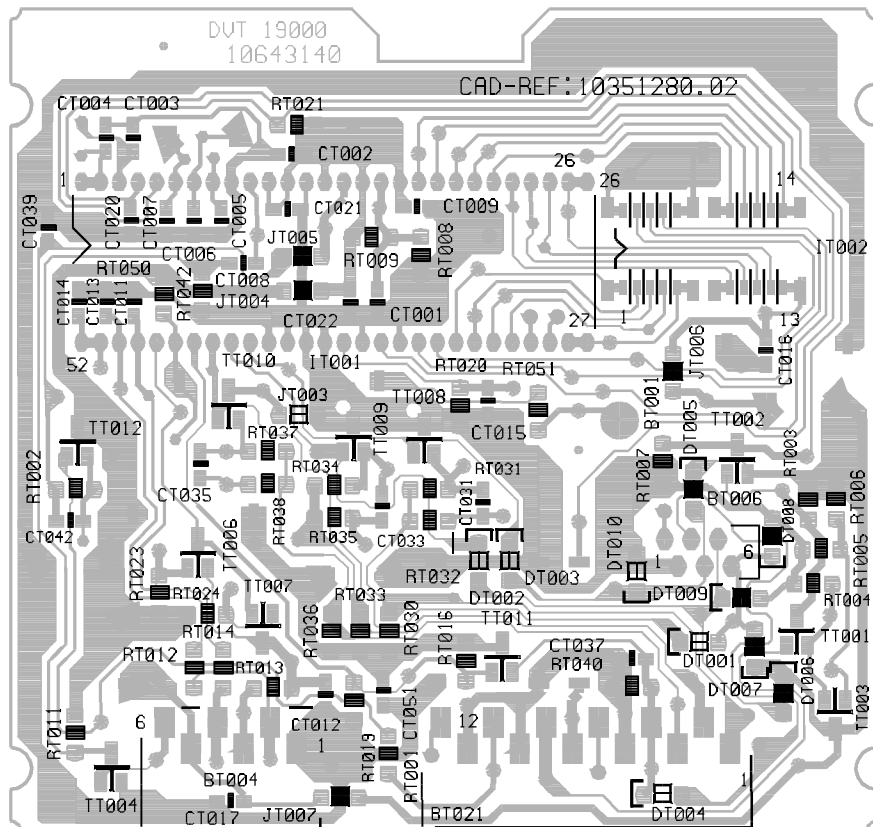


DVT 19510

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

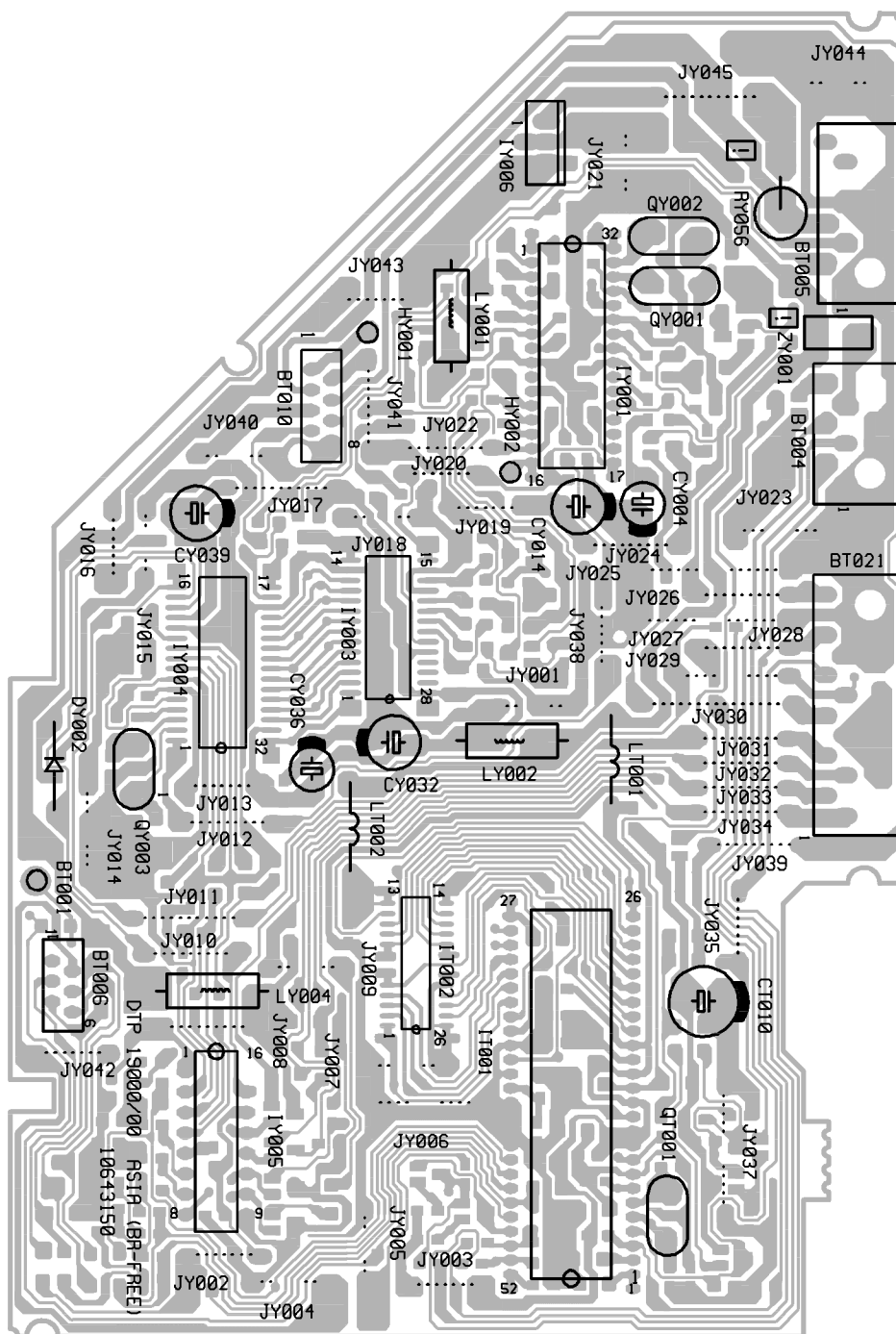


SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE -
LADO SOLDADURAS



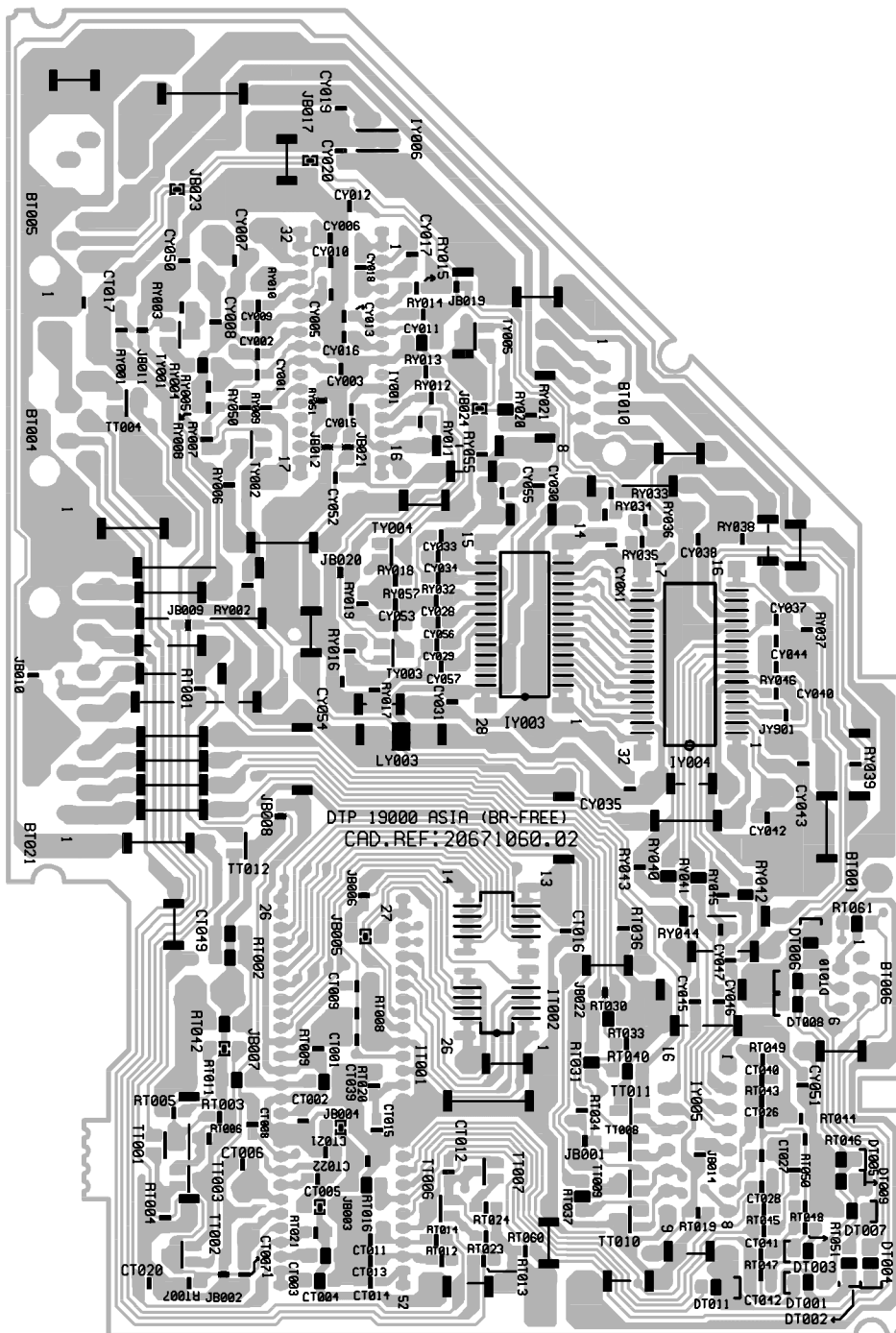
PICTURE IN PICTURE - MODULE IMAGE DANS L'IMAGE - BILD IM BILD BAUSTEIN -
MODULO IMMAGINE NELL'IMMAGINE - MODULO IMAGEN EN IMAGEN

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



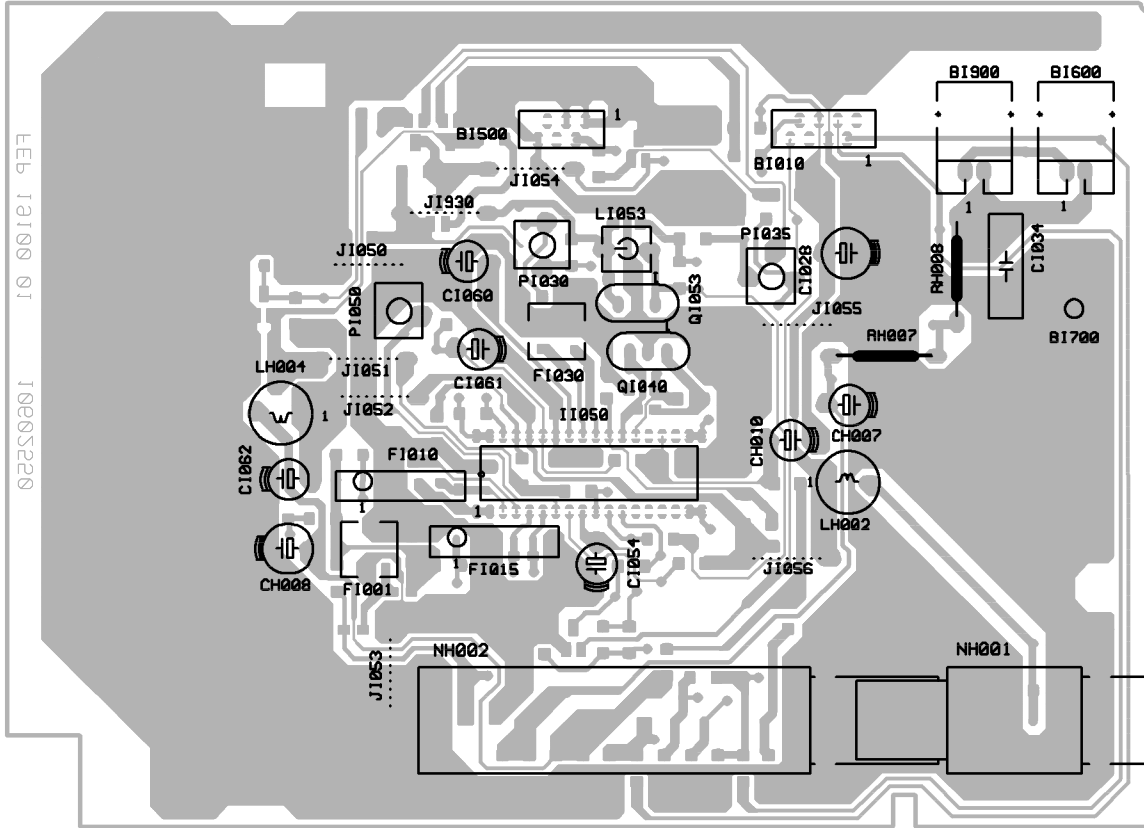
PICTURE IN PICTURE - MODULE IMAGE DANS L'IMAGE - BILD IM BILD BAUSTEIN -
MODULO IMMAGINE NELL'IMMAGINE - MODULO IMAGEN EN IMAGEN

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

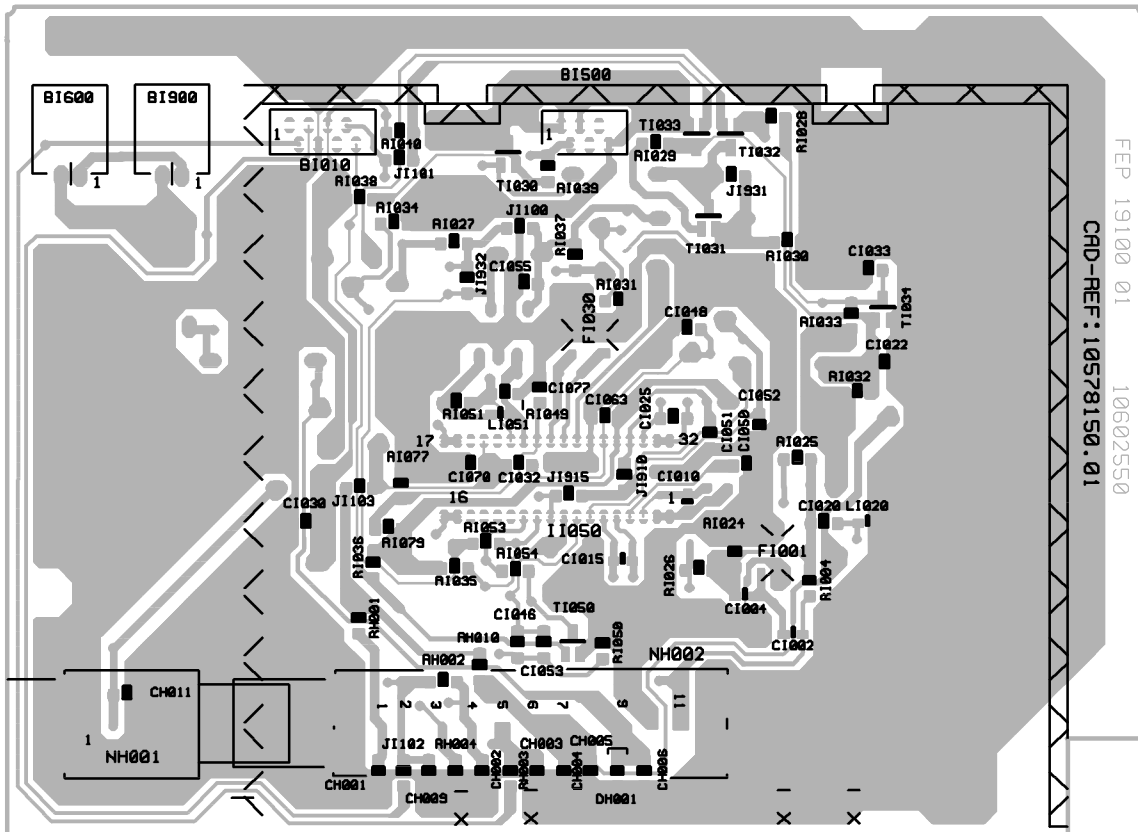


RF - IF PART PIP - FEP 19100

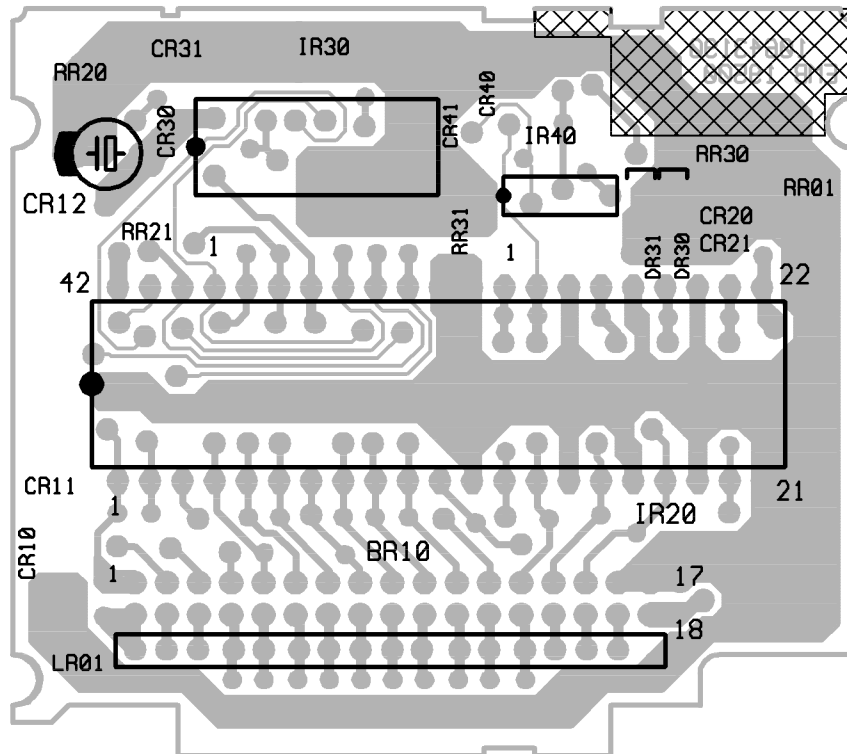
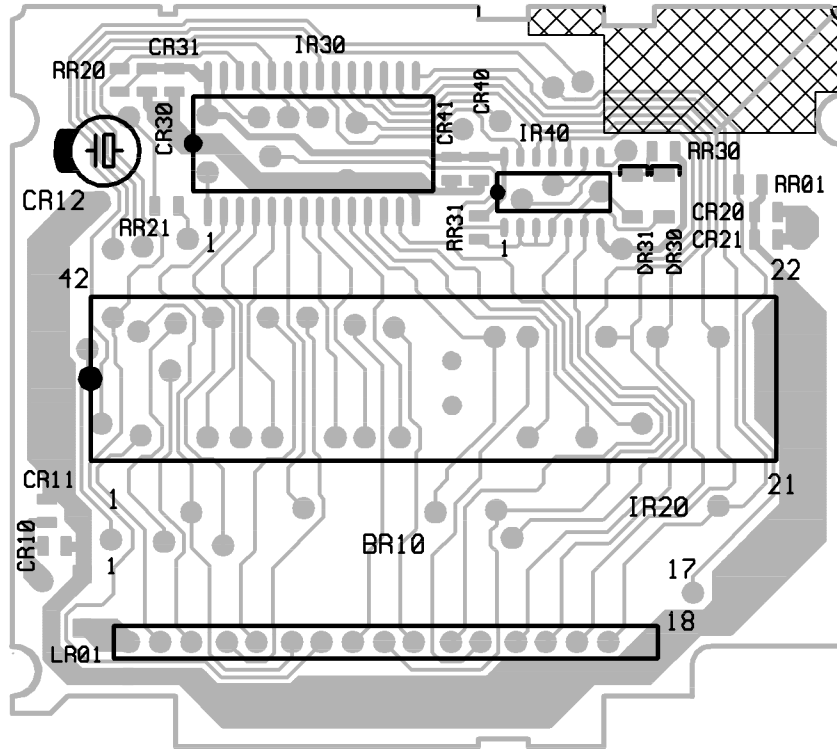
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



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

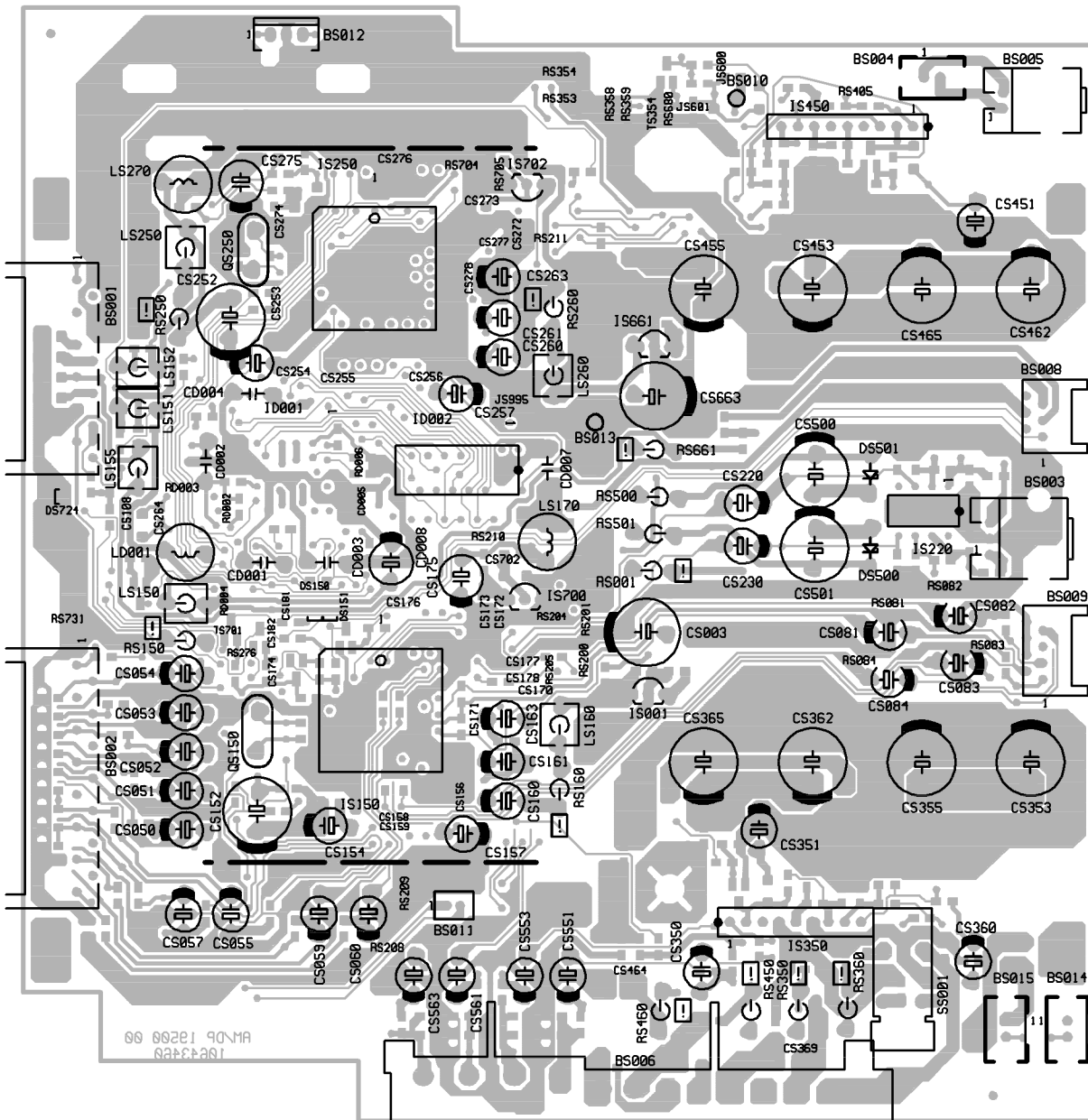


**EXTENSION MEMORY BOARD - PLATINE EXTENSION MEMOIRE -
 SPEICHERERWEITERUNGSPLATINE - PIASTRA ESTENSIONE MEMORIA -
 PLACA EXTENSION DE MEMORIA**



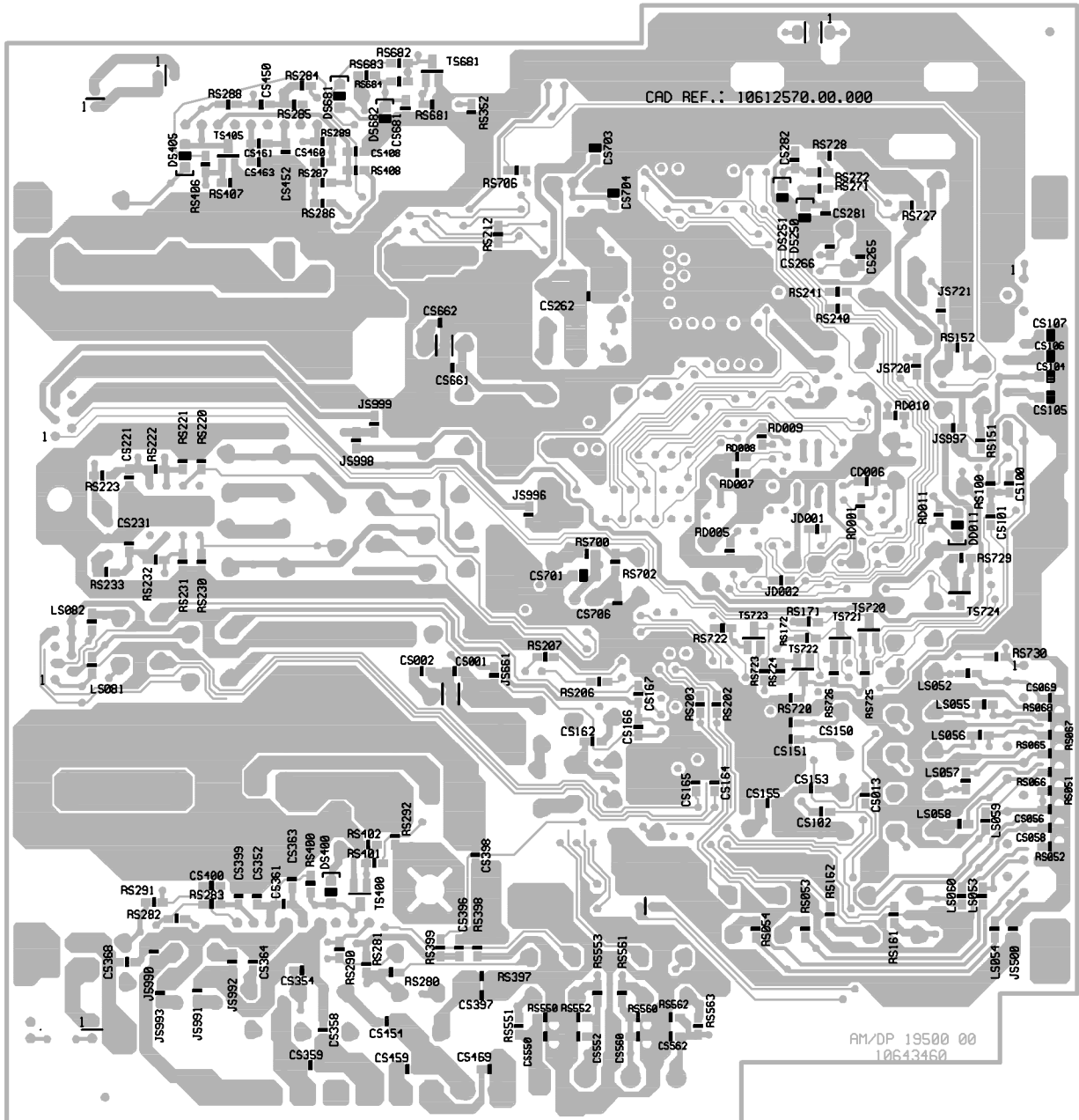
AM / DP 19500

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



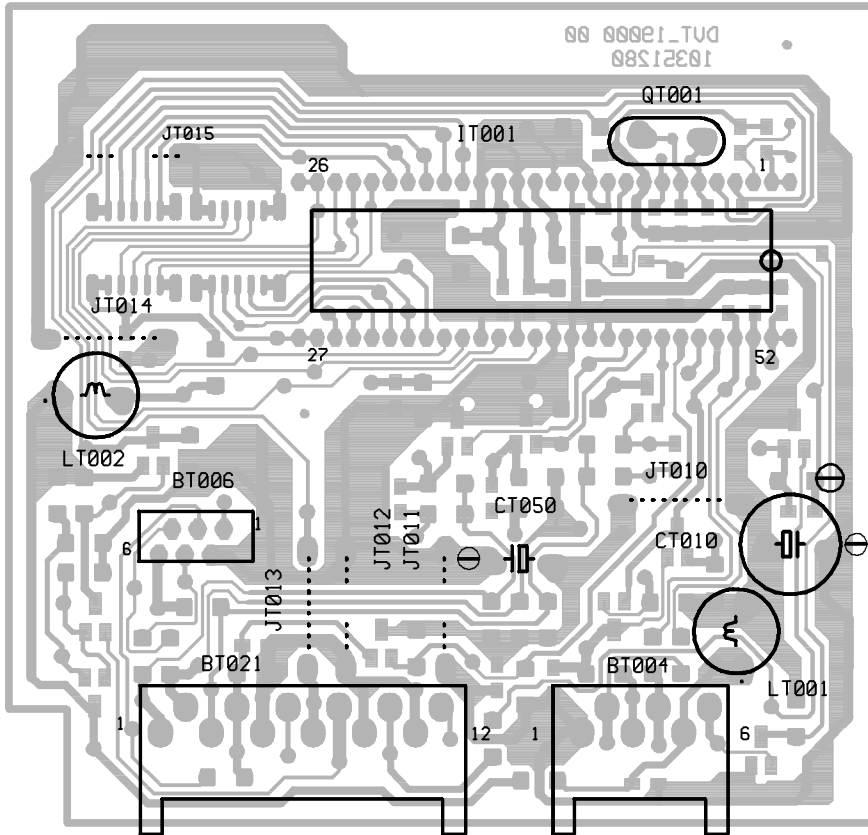
AM / DP 19500

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

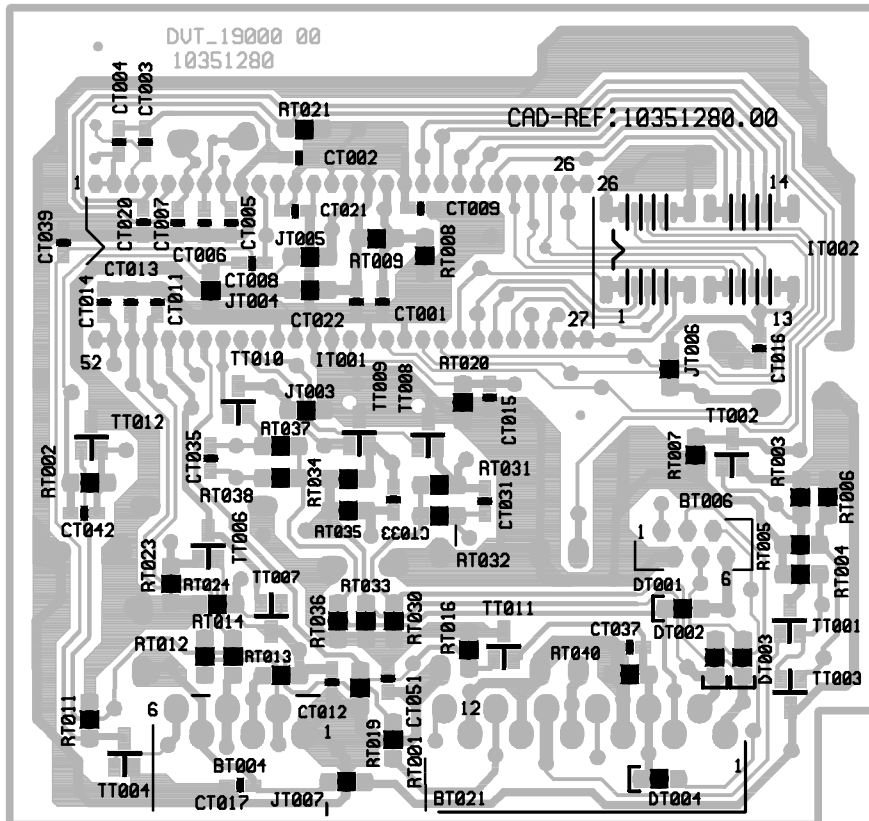


DVT 19000

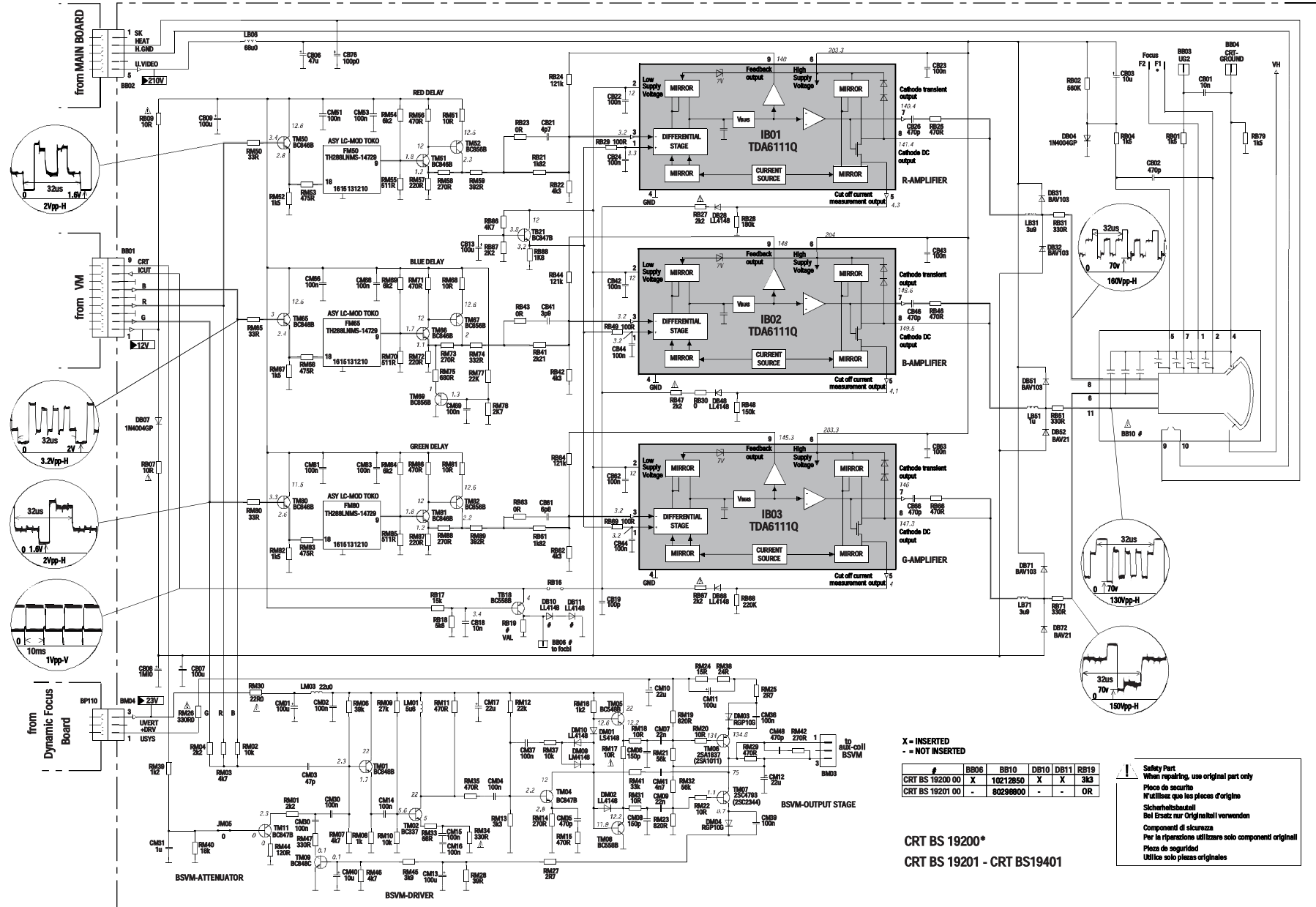
COMPONENT SIDE - COTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



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



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO
 CRTBS19200 - CRTBS19201 - CRT BS19401



X = INSERTED
 - = NOT INSERTED

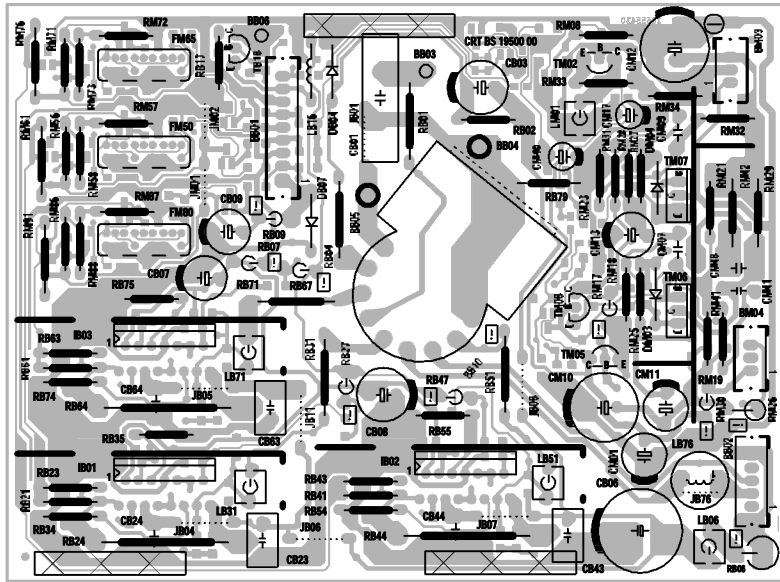
#	BB06	BB10	DB10	DB11	RB19
CRT BS 19200 00	X	10212850	X	X	3k3
CRT BS 19201 00	-	80298800	-	-	OR

CRT BS 19200*
 CRT BS 19201 - CRT BS19401

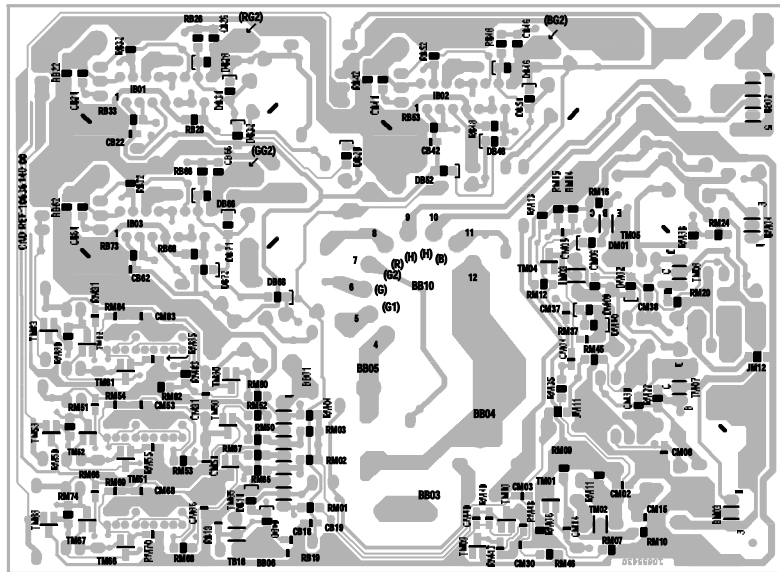
Safety Part
 When repairing, use original part only
 Pièces de sécurité
 Utilisez que les pièces d'origine
 Sicherheitsbestandteil
 Bei Ersatz nur Originalteile verwenden
 Componenti di sicurezza
 Per la riparazione utilizzare solo componenti originali
 Piezas de seguridad
 Utilice solo piezas originales

CRT BS 19500

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



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

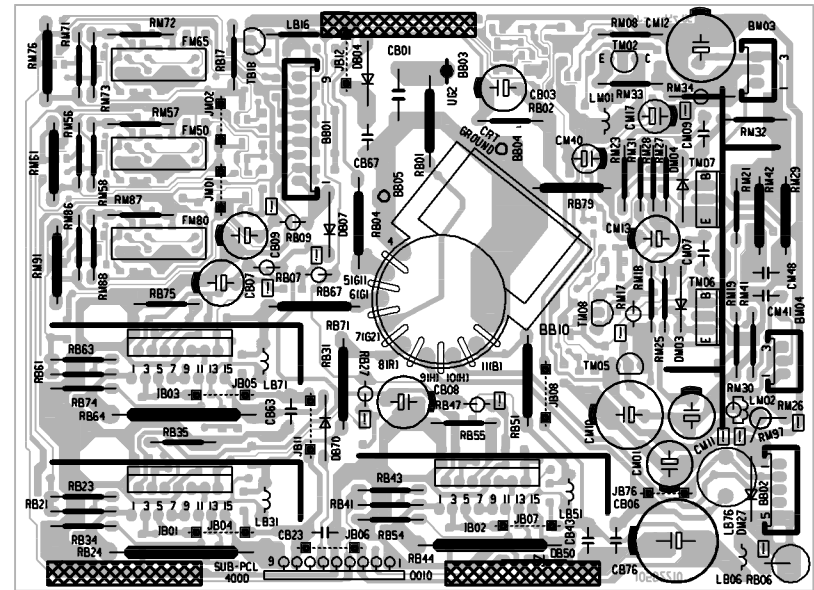


ICC19 100 Hz
First issue 09 / 97

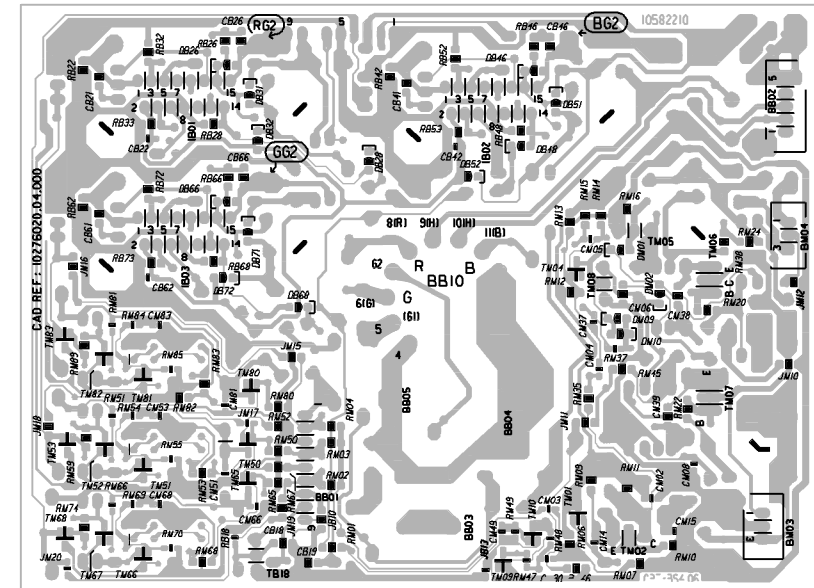
Updated 11 / 99

CRT BS 19400

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



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

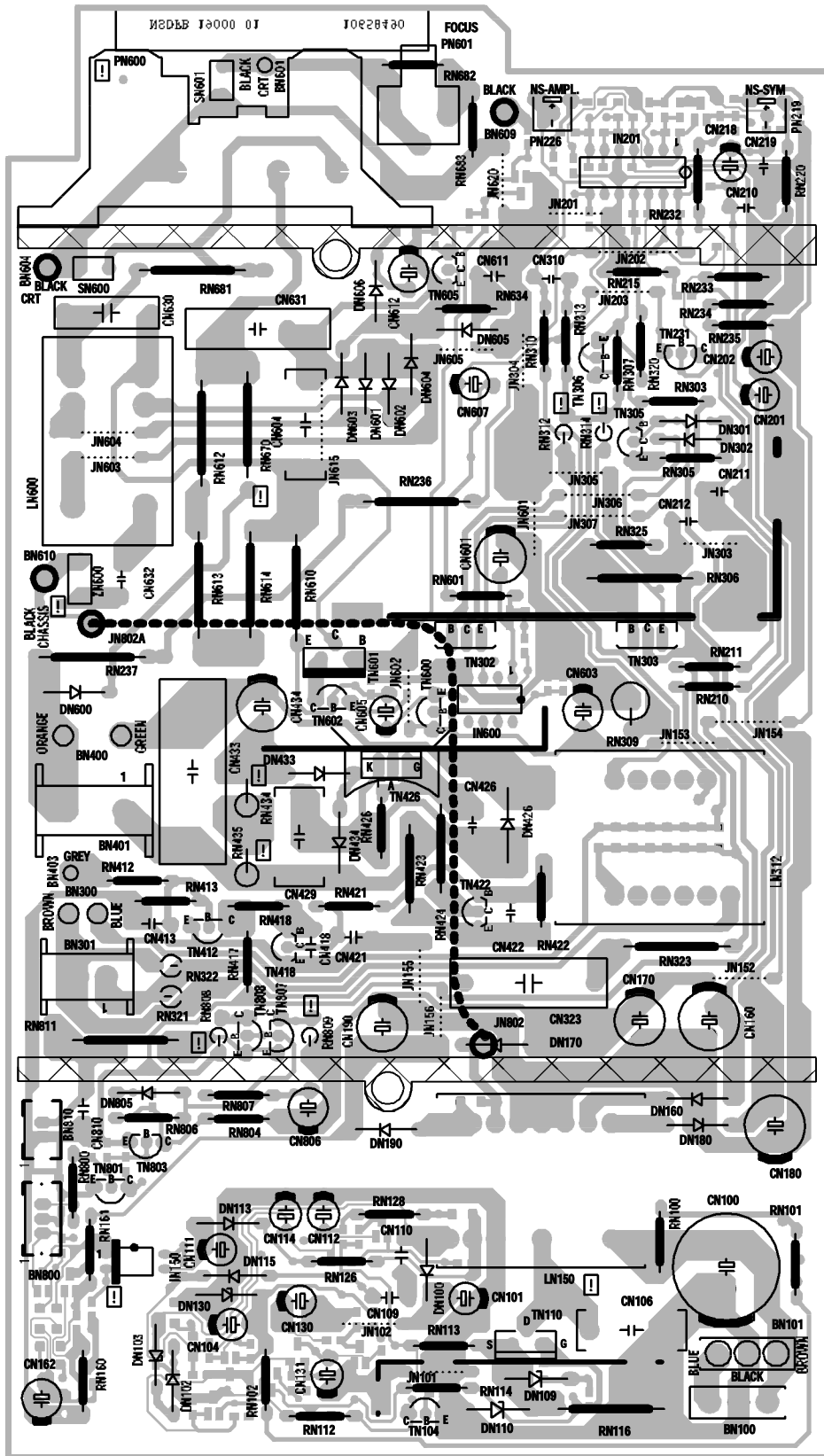


ICC19 100 Hz
First issue 09 / 97

Updated 11 / 99

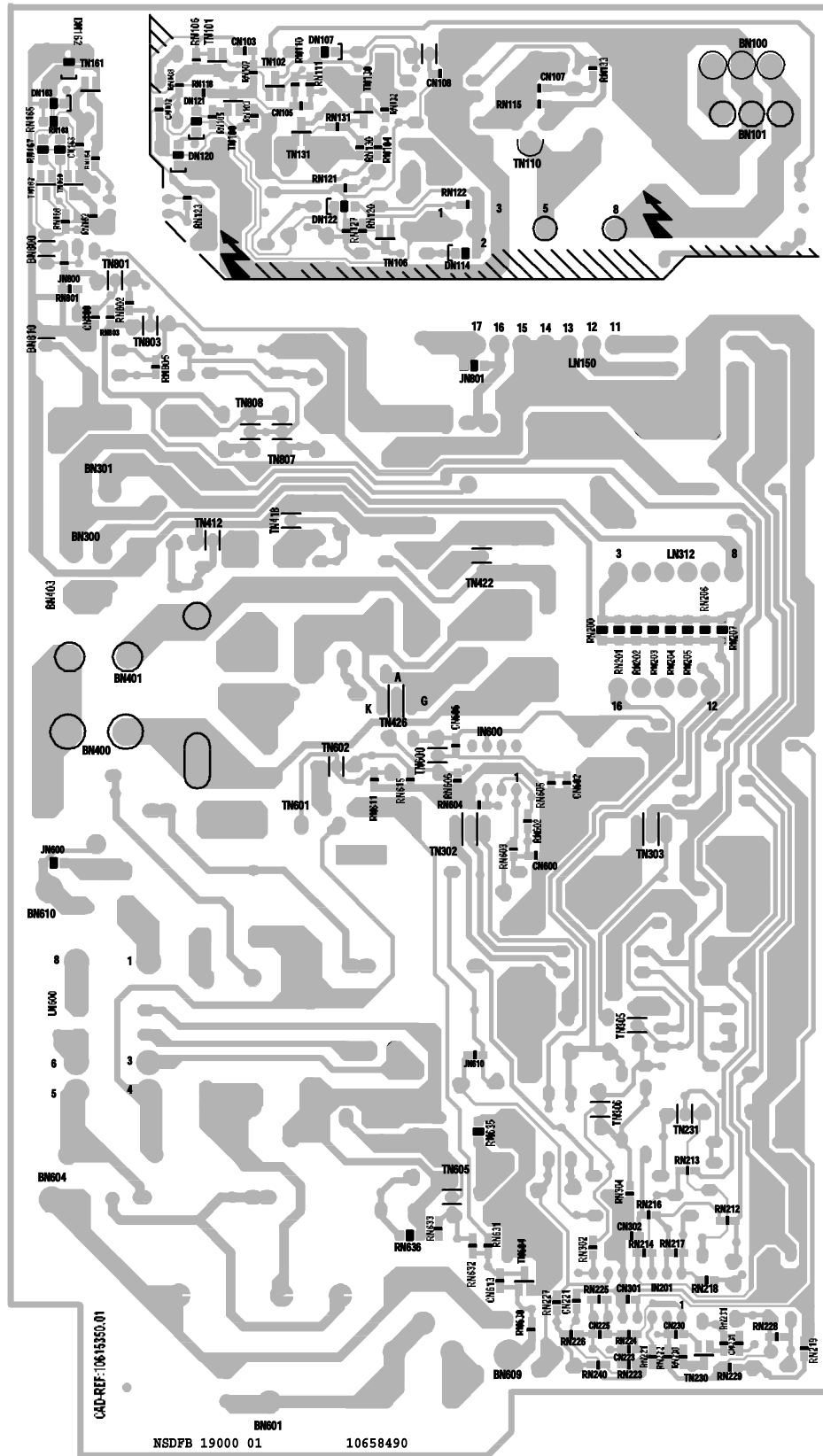
NSDFB 19500

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



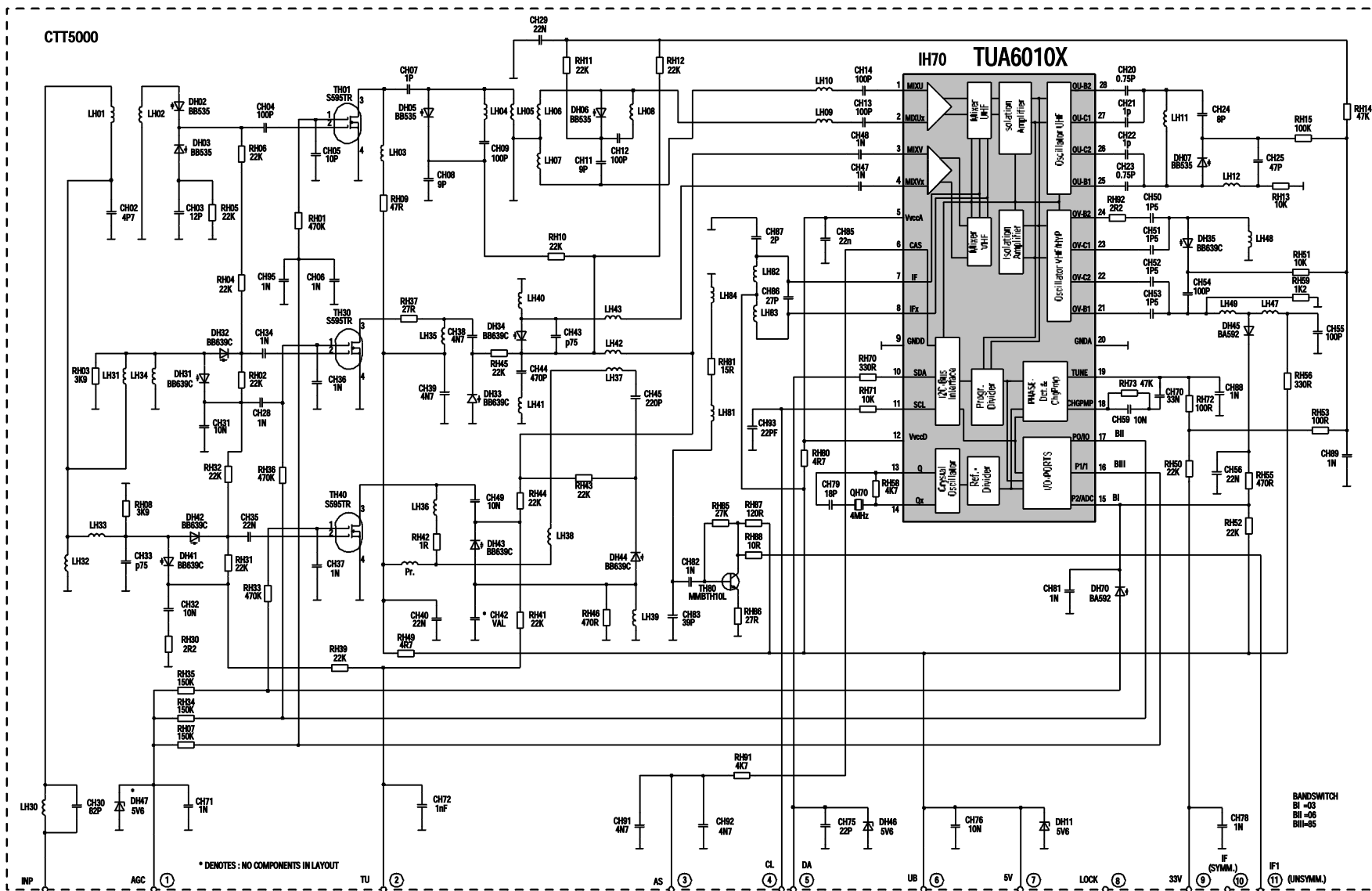
NSDFB 19500

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

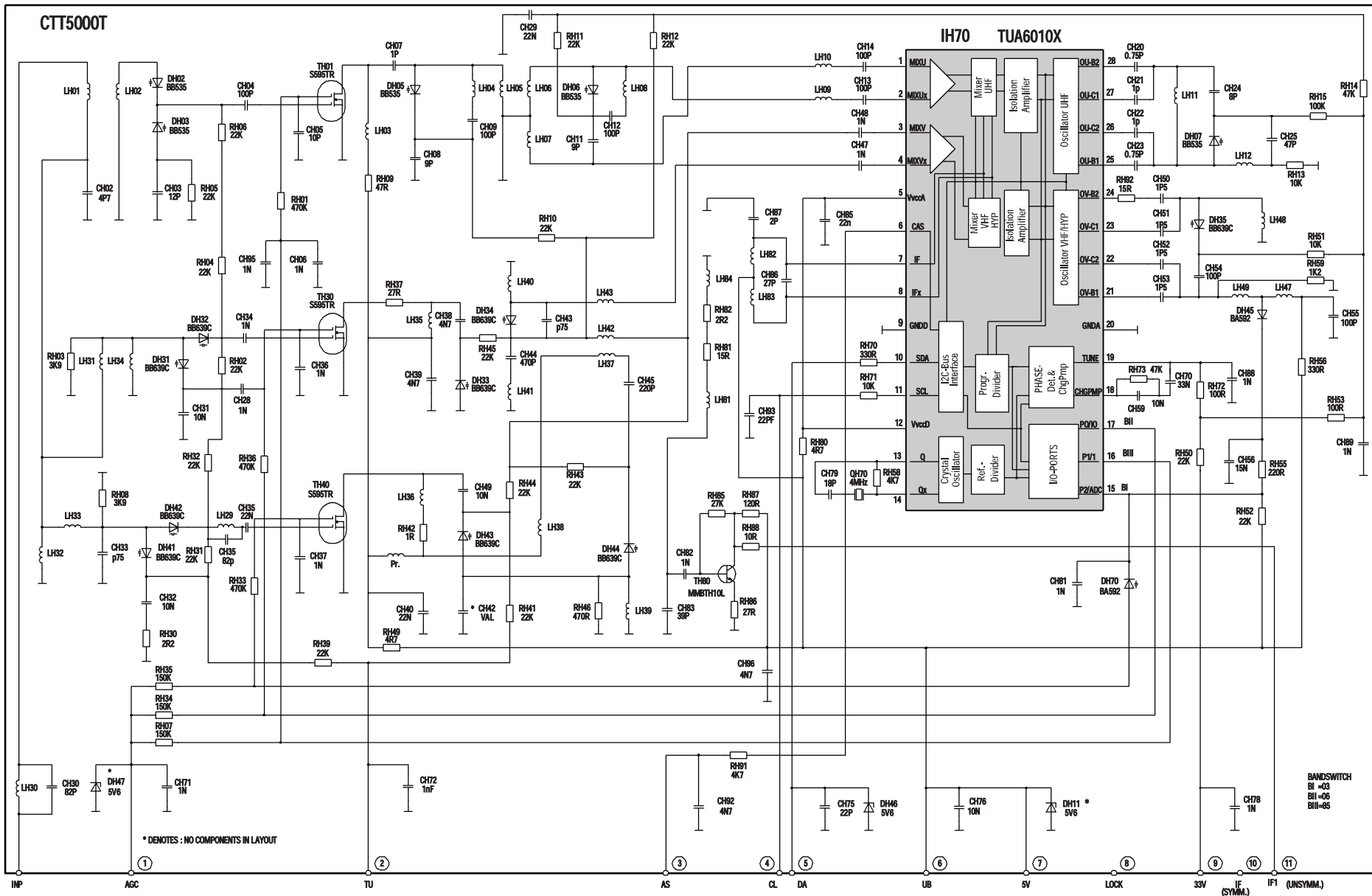


VHF / UHF TUNER CTT5000

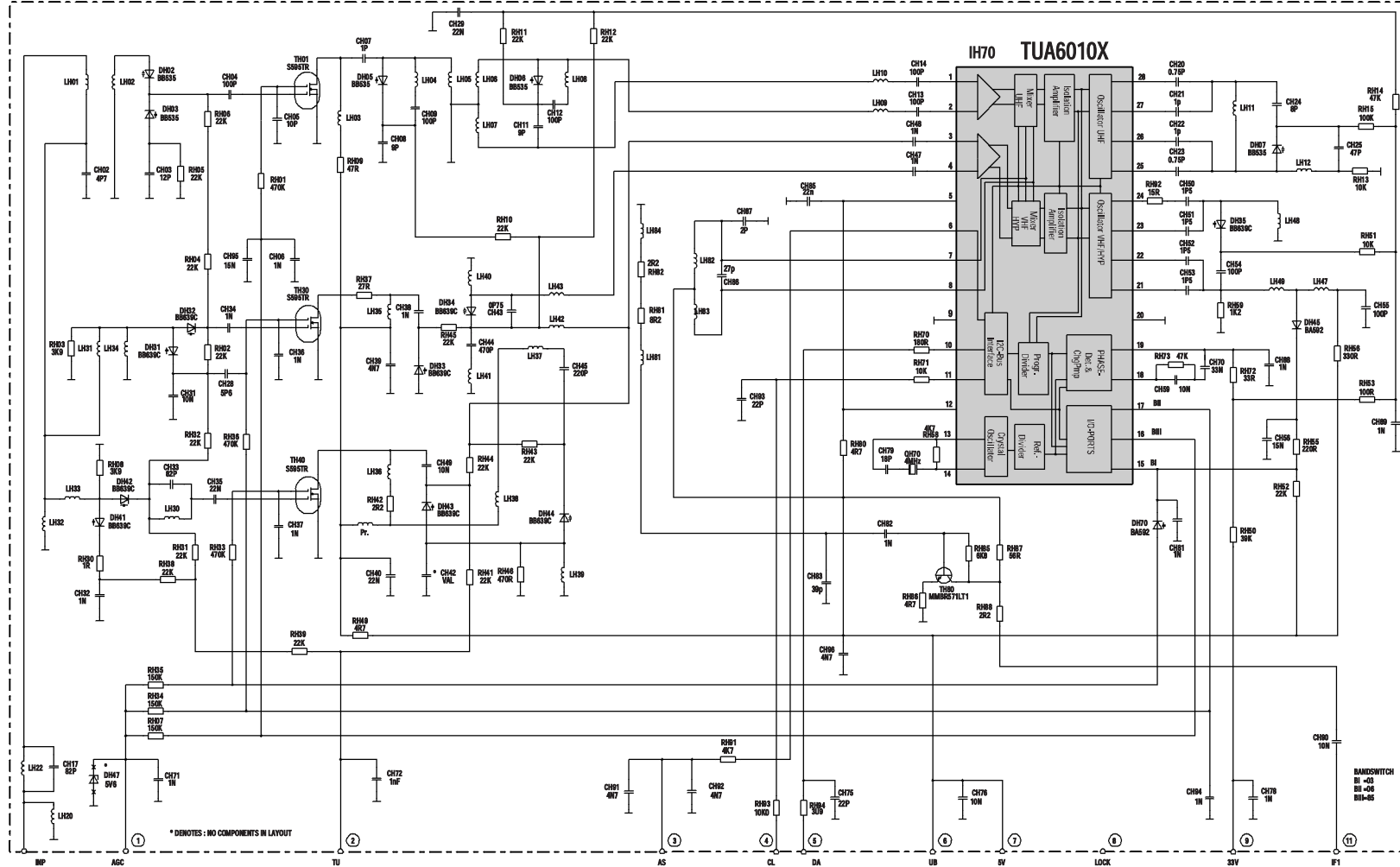
(For information only)



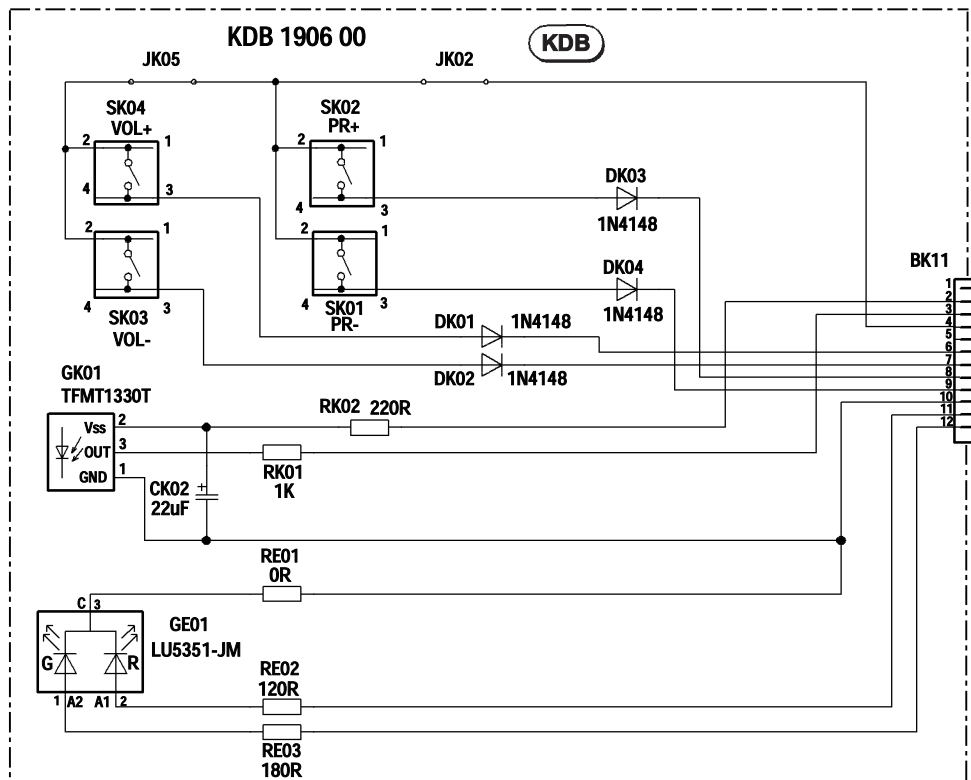
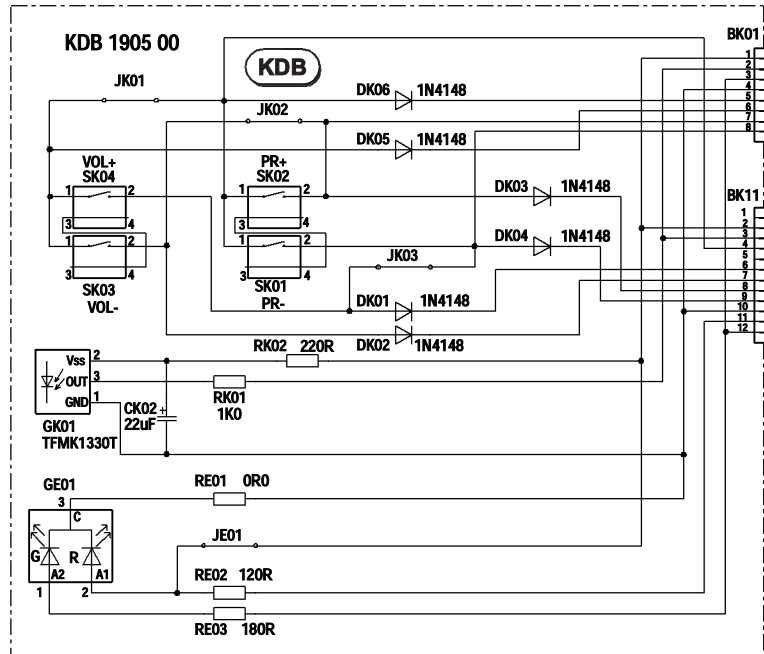
VHF / UHF TUNER CTT5000T (For information only)



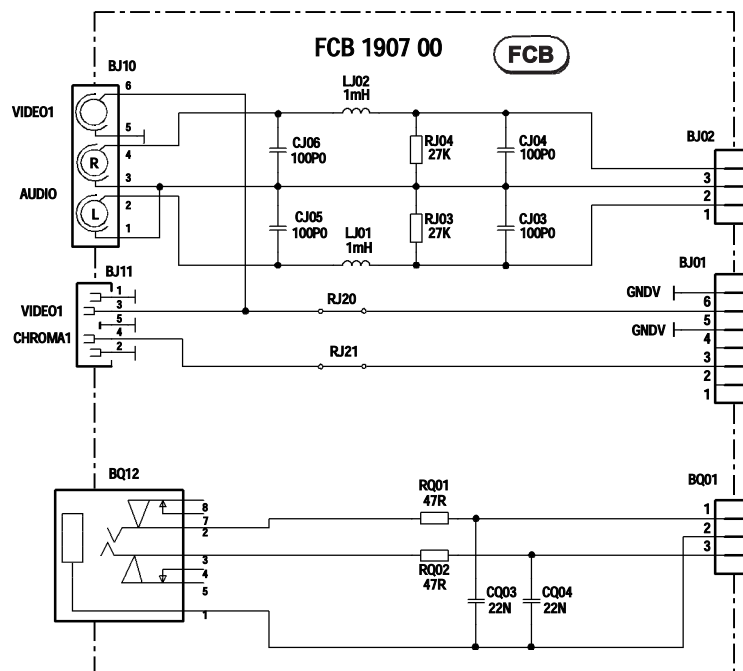
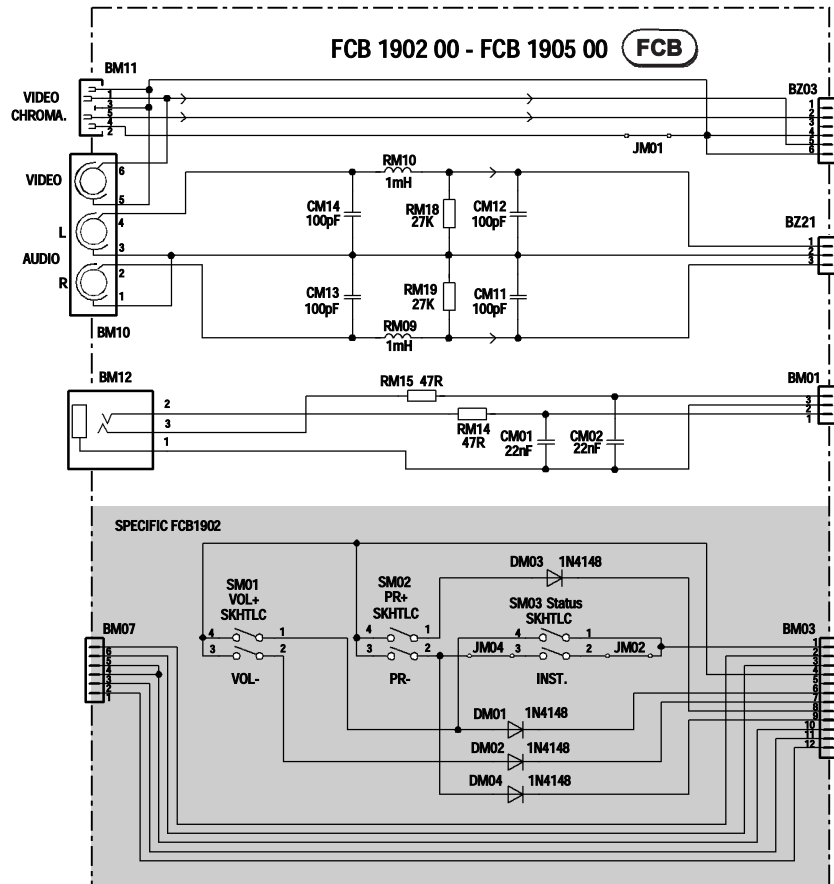
VHF / UHF TUNER CTT5010 (For information only)



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

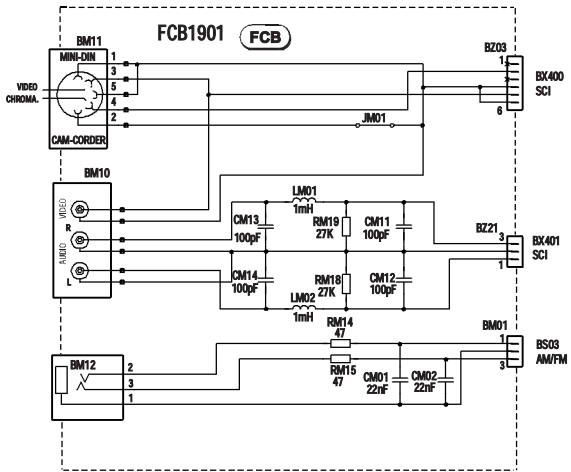


FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

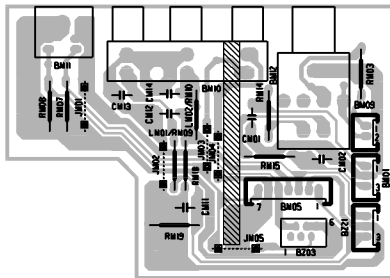


FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

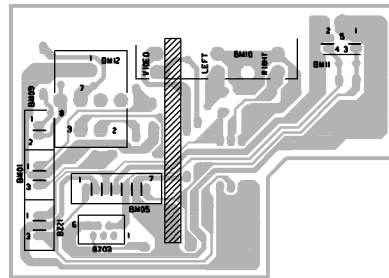
FCB1901



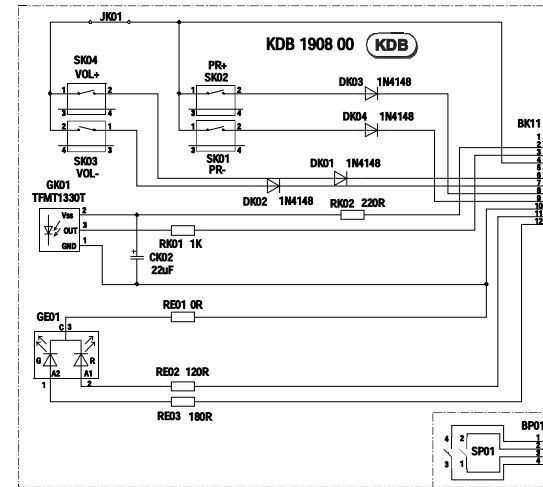
COMPONENT SIDE - CÔTE COMPOSANTS -
BESTÜCKUNGSSEITE -
LATO COMPONENTI -
LADO COMPONENTES



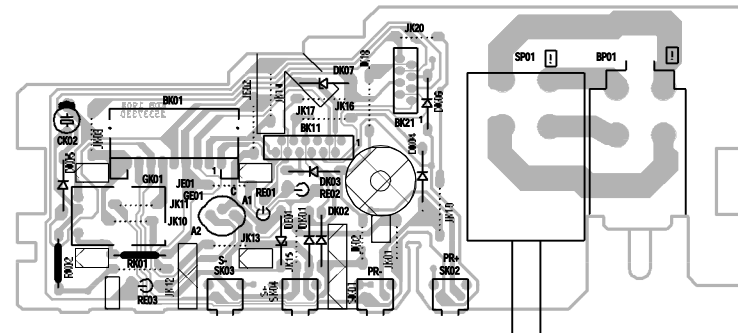
SOLDER SIDE - CÔTE SOUDURES -
LÛTSEITE - LATO SALDATURE -
LADO SOLDADURAS



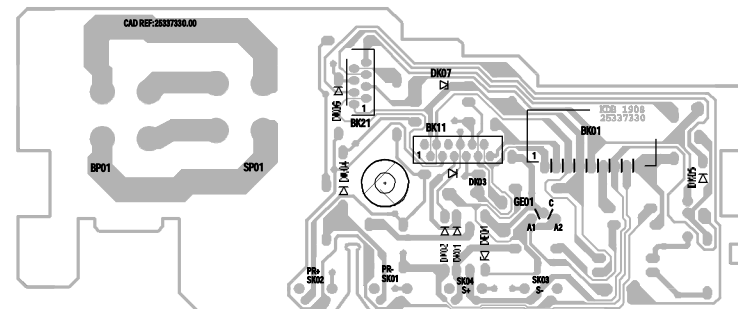
KDB1908



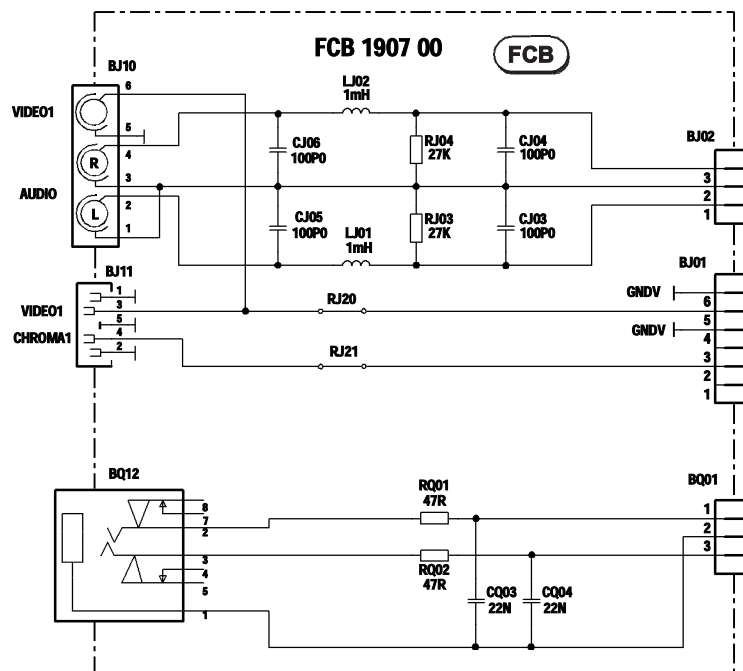
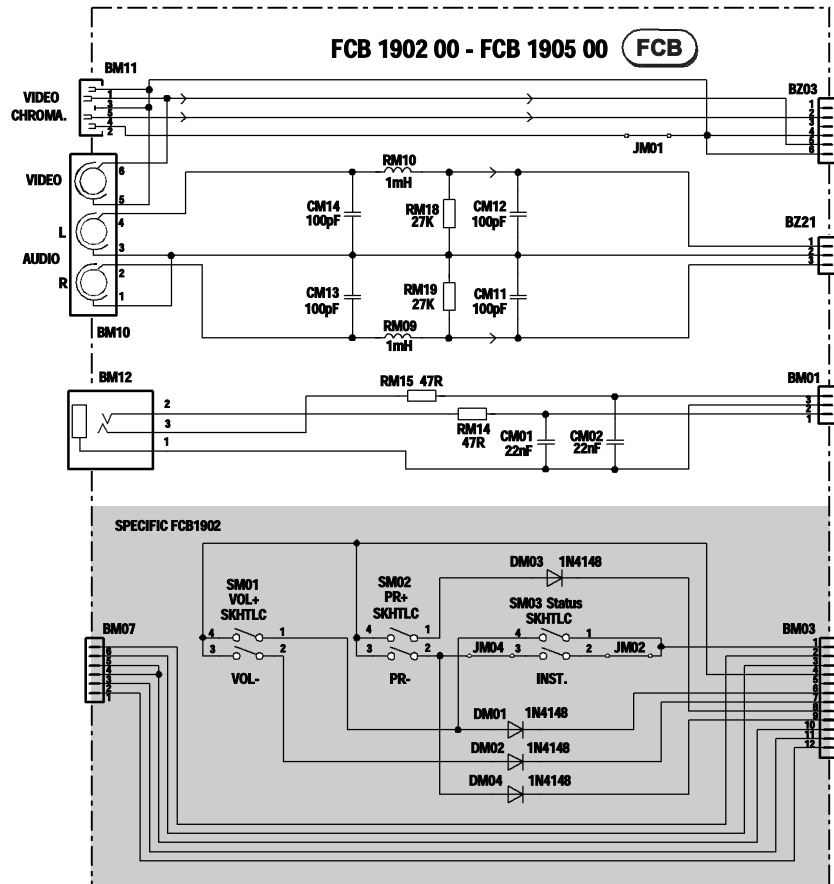
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE
LATO COMPONENTI - LADO COMPONENTES



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

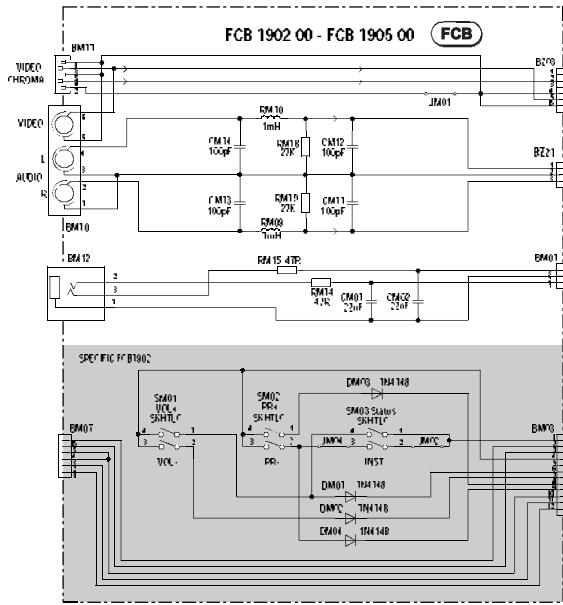


FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

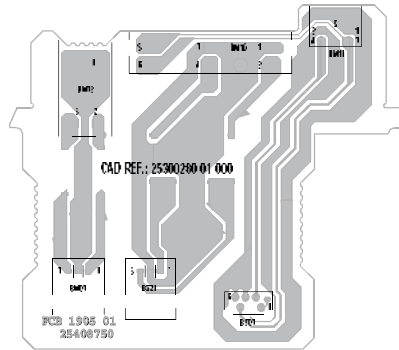
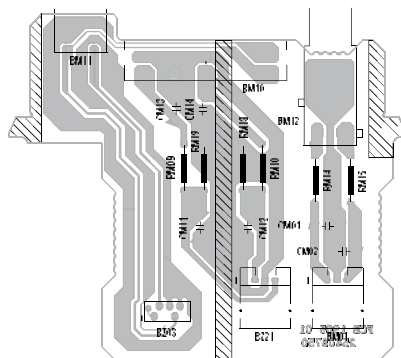
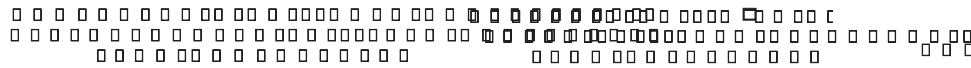


FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER - FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL

FCB1905



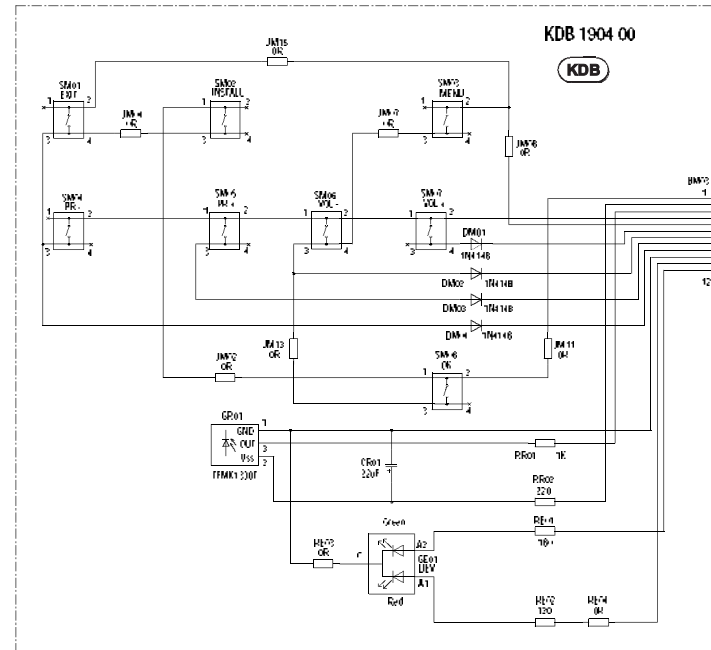
FCB1905



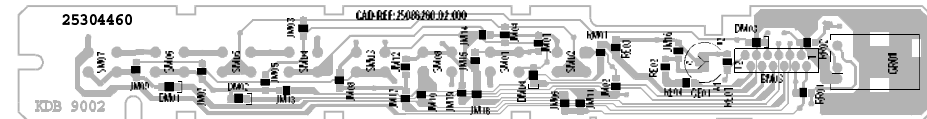
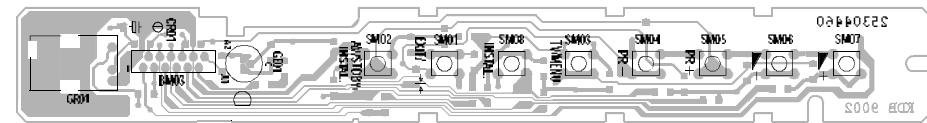
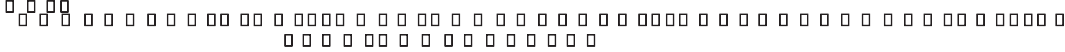
ICC19 100 Hz
First Issue 09 / 97

Updated 11 / 99

KDB1904



KDB1904






ICC19 100 Hz
First Issue 09 / 97

Updated 11 / 99

**PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO**

**THOMSON
28DG40E
Chassis ICC19**

MODULES		
MAIN	ICC19B5ND024000	
AMFM	AM/FM19101	R 10349130
CRT	CRTBS19100	R 10354460
DVT	DVT19000	R 10350370
FCB	FCB1907	25312710
KDB	KDB1905	25312720
MIS	MIS19111	10537030
SCI	SCI19003	10398010
SFB	SFB4002	10306070
VM	VM19100	R 10353940
		
GK01	TFMK1330T	10132410
IA001	TDA7269	10348790
IB01,02,03	TEA5101B	10231440
IF001	TDA8177F	10352880
II050	TDA9811/V3	10336130
IL062	TL082CD FLAT	10364130
IP050,IX001	MC7809/CT	70401402
IP060	TEA2261	90542470
IP130	MC7812/CT	46007600
IP140	TDA8139	10044580
IR001	ST90R92	10441970
IR002	M27C801-120F1 V2.00	10556730
IR003	M24C32BN1	10462210
IR004	MC14094BD SMD	20334930
IR004	MC14094BD/HEF4094BT/ BU4094BF FLAT	20016020
IS01,60	MC4558CD	10401230
IS10	MC78L08ACP	10308410
IS40	MSP3410D-PP	10510320
IT001	SDA5273S-C134	10443110
IT002	HYB514400BJ-80	10359750
IV001	STV2162 CUT2.2	10529490
IV001	STV2165	10360480
IV304	LM358D FLAT	10258670
IV308	DMUO-UP	10325580
IV309	TMS4C2972DT	10458130
IV601	TDA9143S1	10516090
IV602	TDA4665T FLAT	10155740
IX900	TEA6415C	15081290
ZL041	MP160	△ 10457130
ZV301	MP40	△ 10469170
		
TA002, TI031,	BC847B SMD	11070770
032,070, TL001,		
062,063, TP027,		
152,161,162,		
167,170,175,		
TR002,102,105,		
TX955,960,965		
TB18, TV108	BC327-40	16000450
TI010,033,034,	BCR141 SMD	16006890
040,045,050,		
TP145, TR091,		
095,106, TT004		
TI020	BF799 SMD	35031670
TI030, TP150,	BC857B SMD	30946660
166,190, TV063,		
073,083		
TL004	MPSW01A	70436520
TL005	MPS750	16001340
TL028, TV002	TIP122	10045750
TL30	ON4977/BU2525AX	10461310
TM01,04,10,50,	BC846B SMD	16006260
51,65,66,80,		
81, TP026,		
TV002,301,302,		
321,322,601,		
802,822,823,		
842,843		
TM02	BC337	16000520
TM05, TP008	BC548B	16000930
TM06	2SA1837	16001500
TM07	2SC4793	16001600
TM08	BC558B	16001110
TM09, TT001,	BC848C SMD	20438166
003,006,007,		
011,012, TX830,		
831,832,833		
TM52,53,67,68,	BC856B SMD	16006310
82,83, TV001,		
003,051,071,		
300,600,801,		
803,821,841		
TP025	600V 1A25	10353960
TP060	BUL810TH	10224370
TP146	BD241C	16001880
TR048	BCR185 SMD	16006900
TT002,008,009,	BC858C SMD	50854683
010		
TV303	BF660 SMD	16005830
TV304,308,	BC858B SMD	16006330
TX620,622,650,		
652		
TV305,307	BF550 SMD	16005780
TV306	BF799 SMD	16005860
TX621,651	BC848B SMD	35030590
TX910,920,950	BC546B	45001866
		
DA002, DV011,	LL42 SMD	16012530
012		
DB04,07	1N4004	44009009
DB26,28,46,48,	LL4148 SMD	16012450
66,68, DF002,		
028, DL070,072,		
157, DM01,02,		
09,10, DP034,		
051,060,061,		
151,152,160,		
175,178,179,		
190, DR090,		
DV025,026,027,		
028,221, RL214,		
RV052		
DB31,32,51,52,	BAV203 SMD	10222420
71,72, DS61,62		
DB50,70	BAV21	16007470
DF001, DK01,02,	1N4148	44009209
03,04, DL092,		
DP008,027,		
DR091, DX800		
DF007	ZMM15	16030060
DF011	BZW04-58	10368210
DF031,033,	RGP10G	10459090
DL001,051,052,		
DM03,04, DP050		
DH001	ZMM33	10376460
DI001,002,040,	BA782S	20542050
041,051,070,		
071		
DL030	DTV32F-1500	10452490
DL032	BYT08P-400A	16008650
DL034,036	BYT01-200	16008600
DL041, DP108,	RGP30D	10455370
109,130		
DL043	RGP10M	10455320
DL046, DP022	FUF4005	16009580
DL050	BZX85C22	11072690
DL060	ZMM3,3	16030170

R : RECYCLED PART
: PIECE RECYCLEE
: AUSTAUSCHTEILE
: RICAMBIO RICICLATO
: MODULO REPROCESADO

For any requests, please contact THOMSON multimedia after sales service area
Pour toutes précisions, contactez votre service après vente local THOMSON multimedia
Für weitere Auskünfte, wenden Sie sich bitte an die THOMSON multimedia Kundendienststelle
Per precisazioni, contattate l'assistenza tecnica THOMSON multimedia
Para cualquier pregunta, por favor contactar con el responsable de zona del servicio postventa de THOMSON multimedia

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DL066	ZMM47	10250480
DL071	BZX55C33	11073690
DP010,011,012,013	GP30M	10455410
DP028,DX814	BZX55B5V1/ZPD5V1 2%	50890550
DP040	BZX85B2V7	16020210
DP041	BAT42	16007410
DP052,133	1N4001	16008160
DP053	RGP15G	10272800
DP110	RGP50M	10298160
DP112,113	MUR1100E	10360280
DP134	1N5817	16008270
DP140	BYV63-150	16009010
DR104	BZX55B9V1	70438220
DV001	ZMM2,7 SMD	16030100
DV101	ZMM6,8 SMD	70439940
DV104,108,DX120,151,220,251,301,351	BAV103 SMD	10155030
DV301,305,309	BB729S SMD	20542090
DV303,304,LV320	BA582 SMD	16012130
DV623	BZX84C5V1 SMD	16030330
DX810	BZX55B8V2	40441820
GE01	TLUV5300 LED	11137650



FI010	OFWK3954M FOS	10357610
FI015	OFWG3970M FOS	10512420
FI020	OFWK9453M FOS	10176450
QI053	6M0HZ	48042300
QI070	6M5HZ	20356510
QR001	27M0HZ	10254120
QS40	18M432HZ	10334670
QT001	20M48HZ	10495020
QV601	4M433619HZ	10397980
QV602	3M579545HZ	10087720



FI001	40M4HZ	20300950
FI002	38M9HZ	10319260
FI030	77M8HZ	10348570
FI040	6M6HZ	10437980
FM50,65,80	100NS	10203890
LLO34		10153270
LV312,315	7M96HZ	10519360
LV318	7M96HZ	10519350
LV331	7M96HZ	10519340



PI030,035	2K2 OHM	10308240
PI050	22K0 OHM	10272680



JP310	1K0 OHM 1% 0,25W	15012570
RA013,014	4R7 OHM 5% 0,35W	△ 10226310
RB01,04,79	1K5 OHM 5% 0,50W	10121880
RB06	47R0 OHM 5% 0,70W	10181910
RB07,09,RM17,RP050,RV601	10R0 OHM 5% 0,25W	△ 15009580
RB21	619R0 OHM 1% 0,40W	15019980
RB24,44,64	39K0 OHM 2% 4W	10358890
RB27,47,67	2K2 OHM 5% 0,50W	△ 10152130
RB31,51,71	330R0 OHM 10% 0,50W	14050190
RB41	681R0 OHM 1% 0,40W	15020320
RB61	649R0 OHM 1% 0,40W	15020140
RF011	1R5 OHM 5% 0,50W	△ 15022560
RF012,013	1R0 OHM 1% 0,70W	10254220
RF015	15R0 OHM 265V PTC	△ 10237730
RF020	27R0 OHM 1% 0,70W	10302230
RL013	4R7 OHM 5% 0,50W	△ 15010040
RL015	1R0 OHM 5% 0,25W	△ 15009730
RL029	2R2 OHM 5% 0,50W	△ 10440420
RL037	1K0 OHM 10% 0,50W	10393870
RL040	0R27 OHM 5% 2,50W	10263600
RL043	2R2 OHM 5% 0,70W	△ 13000480
RL047	47R0 OHM 5% 0,50W	10233220
RL052	46K4 OHM 1% 0,70W	10403710
RL081	68K1 OHM 1% 0,12W	10433880
RL082	61K9 OHM 1% 0,12W	10516840
RM26	330R0 OHM 5% 0,35W	△ 10248240
RM30	22R0 OHM 5% 0,25W	△ 35031220
RM57,72,87	221R0 OHM 1% 0,40W	15014310
RM58,73,88	274R0 OHM 1% 0,40W	15015080
RM61,76,91	3K3 OHM 1% 0,40W	15017250
RP005	18R0 OHM 220V PTC	△ 41398800
RP010	2R7 OHM 5% 4,50W	10379110
RP020	0R12 OHM 5% 2,50W	10334390
RP022	100R0 OHM 5% 4,50W	10379830
RP025	33K0 OHM 5% 2W	13001680
RP066	4K22 OHM 1% 0,40W	15018600
RP100	10M0 OHM 5% 0,70W	△ 10074320
RP112	1K2 OHM 5% 2W	10134060
RP173,RR015,016,017,018,019,085,087,088,089,RV231,232,RX910	100R0 OHM 5% 0,25W	30943330
RS42	4R7 OHM 5% 0,25W	△ 35032200
RV041	8R2 OHM 5% 0,25W	△ 15010150



CB01	10NOF 3K0V	14036450
CB67,76	100POF 20% 2K0V	14006310
CL030	1N9F 5% 2K0V	13071270
CL031	11N6F 2,5% 2K0V	40406501
CL032	24NOF 5% 400V	10477940
CL034	12NOF 5% 400V	43324600
CL036	2U2F 20% 250V	10190240
CL037	410NOF 5% 400V	10180780
CL038,039	27NOF 5% 250V	50895120
CL041,043	330POF 20% 1K0V	14035270
CL052	10NOF 5% 400V	14035870

CL084	3N9F 5% 400V	10522580
CL146	150POF 20% 1K0V	30937590
CM48	470POF 10% 400V	14002340
CP001,002	100NOF 20% 275V	△ 10331520
CP010	1N5F 10% 1K0V	20338740
CP011,012	4N7F 1K0V	10058740
CP013,020	150U0F 385V	43424800
CP021	150POF 2K0V	10099380
CP022,111	470POF 10% 2K0V	10099390
CP023	2N2F 10% 1K0V	13090980
CP050,053	330POF 20% 400V	14002220
CP100	1N5F 20% 400V	△ 10344860
CP112	3N3F 5% 630V	△ 10490550
CP135,137,138	470POF 20% 1K0V	40434510



LL001	DRIVER	10468760
LL008	DSTGDS35	△ 10468070
LL037		△ 10518230
LP01		△ 10203560
LP020	SMT89	△ 10553820
LP070	DRIVER	△ 60412091

OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS

BB10	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATHODICO SOPORTE T.R.C	△ 80298800
BJ11	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
BQ12	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10539510
BS04	CINCH SOCKET PRISE CINCH CHINCH-BUCHSE PRESA CINCH TOMA CINCH	10368990
BX100,200,300	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONECTOR	10402480
BX803	JACK SOCKET PRISE JACK BUCHSE PRESA JACK TOMA JACK	10447830
CH200	ON/OFF SWITCH CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTATTORE ACCESSO/SPENTO CONTACTOR MARCHA/PARADA	△ 10276500
FP01	2A5T TIME-LAG FUSE 2A5T FUSIBLE TEMPORISE 2A5T SICHERUNG 2A5T FUSIBILE TEMPORIZZATO 2A5T FUSIBLE TEMPORIZADO	△ 10246750

IR001	IC SUPPORT 4X17 SUPPORT CI 4X17 IC-FASSUNG 4X17 SUPPORTO CI 4X17 SOPORTE CI 4X17	67626900
NH001	CTT5000T UHF/VHF TUNER CTT5000T TETE UHF/VHF CTT5000T UHF/VHF TUNER CTT5000T TUNER UHF/VHF CTT5000T SINTONIZADOR UHF/VHF	R 20808880
SK01,02,03,04	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUPTORE MICROCONTACTOR	30011100
SP05	RELAY 12V RELAIS 12V RELAIS 12V RELE 12V RELE 12V	△ 90294100
EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION		
	FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL	25326310
	REAR PANEL DOS RUECKWAND PANNELLO POSTERIORE TAPA POSTERIOR	△ 25325990
	LOUDSPEAKER GUIDE GUIDE HAUT PARLEUR FUEHRUNGSSCHIENE LAUTSPRECHER GUIDA ALTOPARLANTE GUIA ALTAVOZ	25301600
	8R OHM 15W LOUDSPEAKER 60X125 8R OHM 15W HAUT PARLEUR 60X125 8R OHM 15W LAUTSPRECHER 60X125 8R OHM 15W ALTOPARLANTE 60X125 8R OHM 15W ALTAVOZ 60X125	10467060
	8R OHM 15W LOUDSPEAKER 27X42 8R OHM 15W HAUT PARLEUR 27X42 8R OHM 15W LAUTSPRECHER 27X42 8R OHM 15W ALTOPARLANTE 27X42 8R OHM 15W ALTAVOZ 27X42	10317160
	ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN-AUS TASTE TASTO ACCESSO/SPENTO TECLA MARCHA/PARADA	25313050
	BUTTON STRIP BARRETTE DE TOUCHES TASTENLEISTE PIATTINA TASTI PLACA DE TECLAS	25330350
	POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	△ 10260880

A66EGW83X122 CATHODE RAY TUBE A66EGW83X122 TUBE CATHODIQUE A66EGW83X122 FARBBILDROEHRE A66EGW83X122 TUBO CATODICO A66EGW83X122 T.R.C	△ 10404630
DEGAUSSING COIL BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETTIZZAZIONE BOBINA DE DESMANTACION	△ 47320183
RCT100 REMOTE CONTROL RCT100 TELECOMMANDE RCT100 FERNBEDIENUNG RCT100 TELECOMANDO RCT100 TELEMANDO	10546340
FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON	25303010
FITTING DOWNER CALE INFERIEURE POLSTER UNTEN Distanziatore inferiore CALZO INFERIOR	25303070
FITTING UPPER CALE SUPERIEURE POLSTER OBEN Distanziatore superiore CALZO SUPERIOR	25303040
INSTRUCTIONS NOTICES ANLEITUNGEN ISTRUZIONI MANUALE	
28DG40E PARTS LIST 28DG40E LISTE DE PIECES DETACHEES 28DG40E ERSATZTEILLISTE 28DG40E LISTA PARTI DI RICAMBIO 28DG40E LISTA DE PIEZAS DE REPUESTO	35060130
ICC19 100HZ SERVICE MANUAL ICC19 100HZ DOC TECHNIQUE ICC19 100HZ TECHNISCHE DOKUMENTATION ICC19 100HZ DOCUMENTAZIONE TECNICA ICC19 100HZ DOCUMENTACION TECNICA	35047630
28DG40E UM TH D/I/GB/F/E/NL/DK/S 28DG40E NU TH D/I/GB/F/E/NL/DK/S 28DG40E BA TH D/I/GB/F/E/NL/DK/S 28DG40E IU TH D/I/GB/F/E/NL/DK/S 28DG40E IU TH D/I/GB/F/E/NL/DK/S	25327420

28DG40E

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