



D Btx * 32700 #

Service Manual

Zusätzlich erforderliche Unterlagen für den Komplettservice:

Service Manual

Sicherheit Safty

Grundig passion

Additionally required Service Manuals for the Complete Service:

Sach-Nr./Part No. 72010-800.00

CUC 1982 CUC 1951

Sach-Nr./Part No. 72010-016.10

Condo 1NS 6kV : 850220006600

CUC 1982

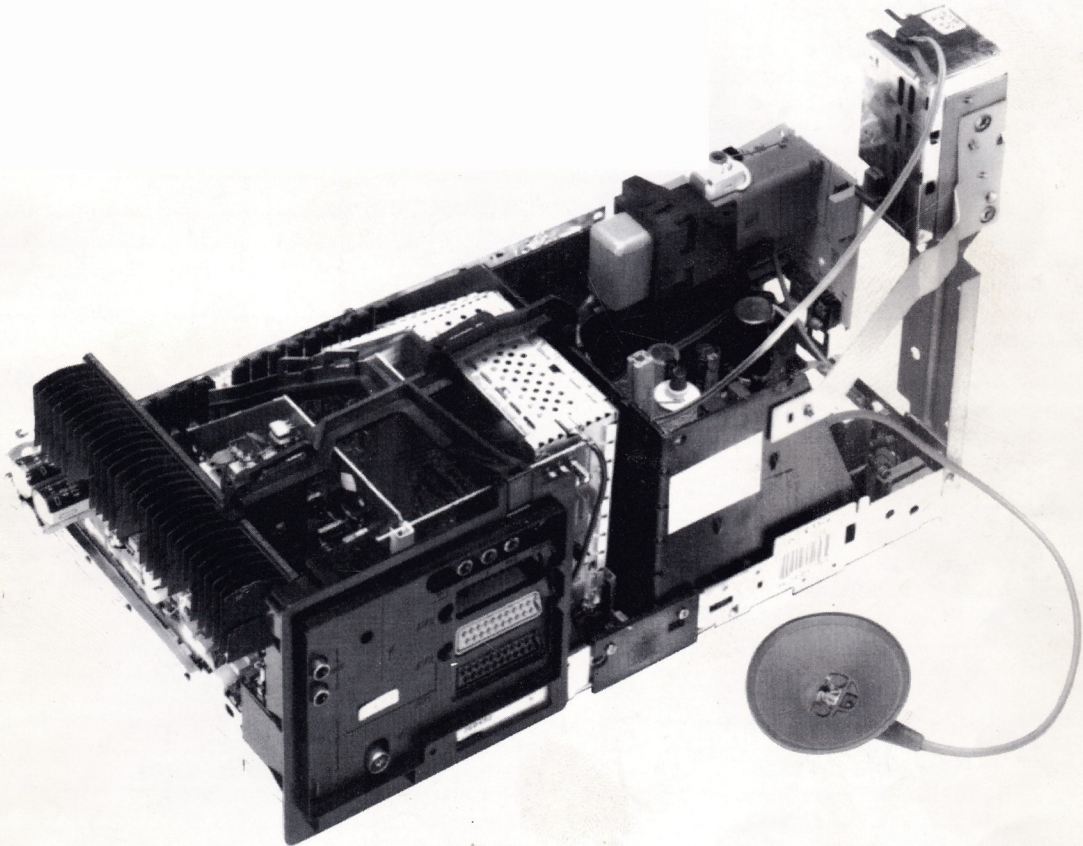
CUC 1951

M 82-169/9 IDTV

(9.21324-02 / GCA 3090)

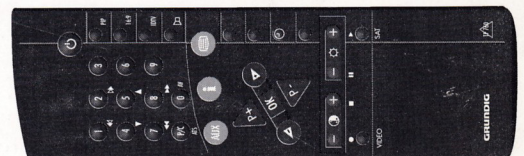
M 70-169/9 IDTV

(9.21339-02 / GCB 0190)

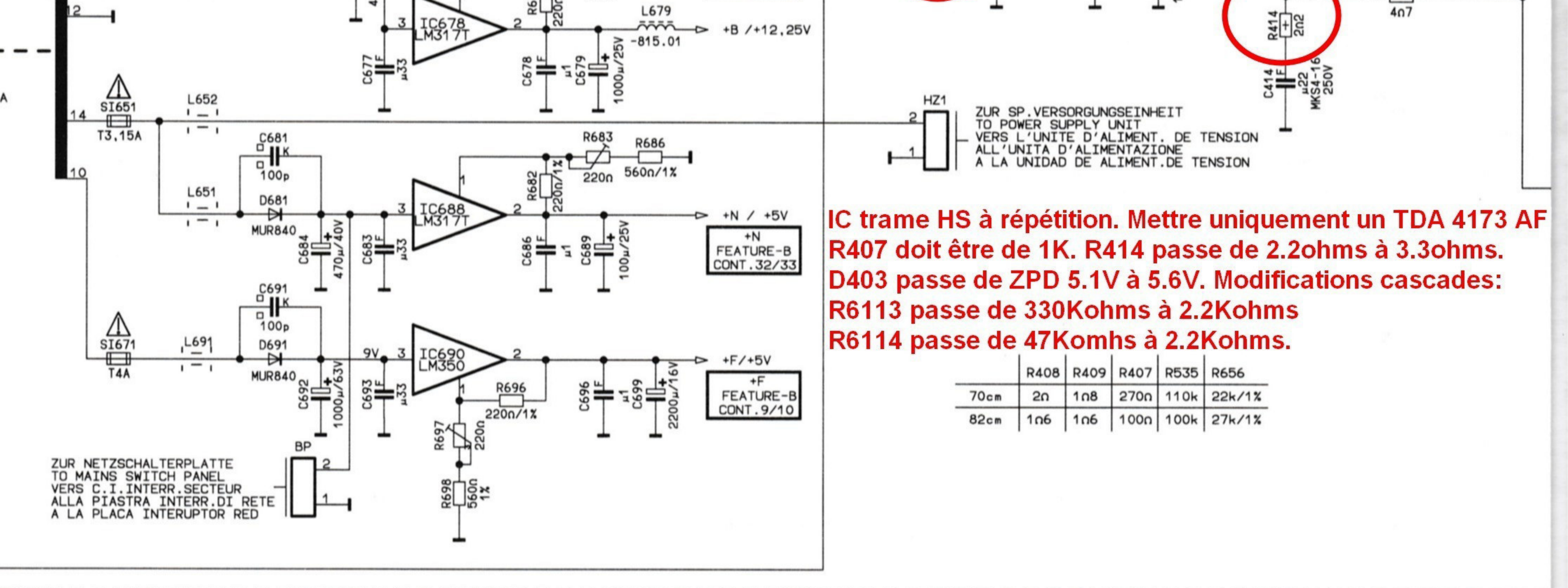
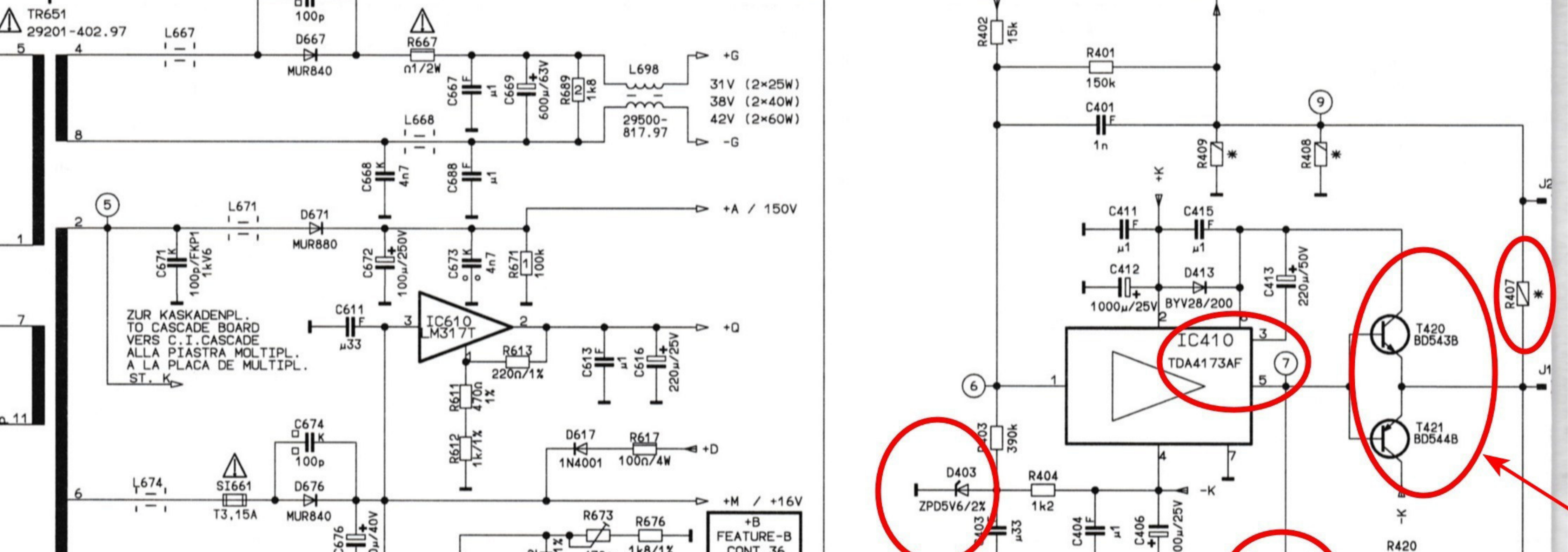
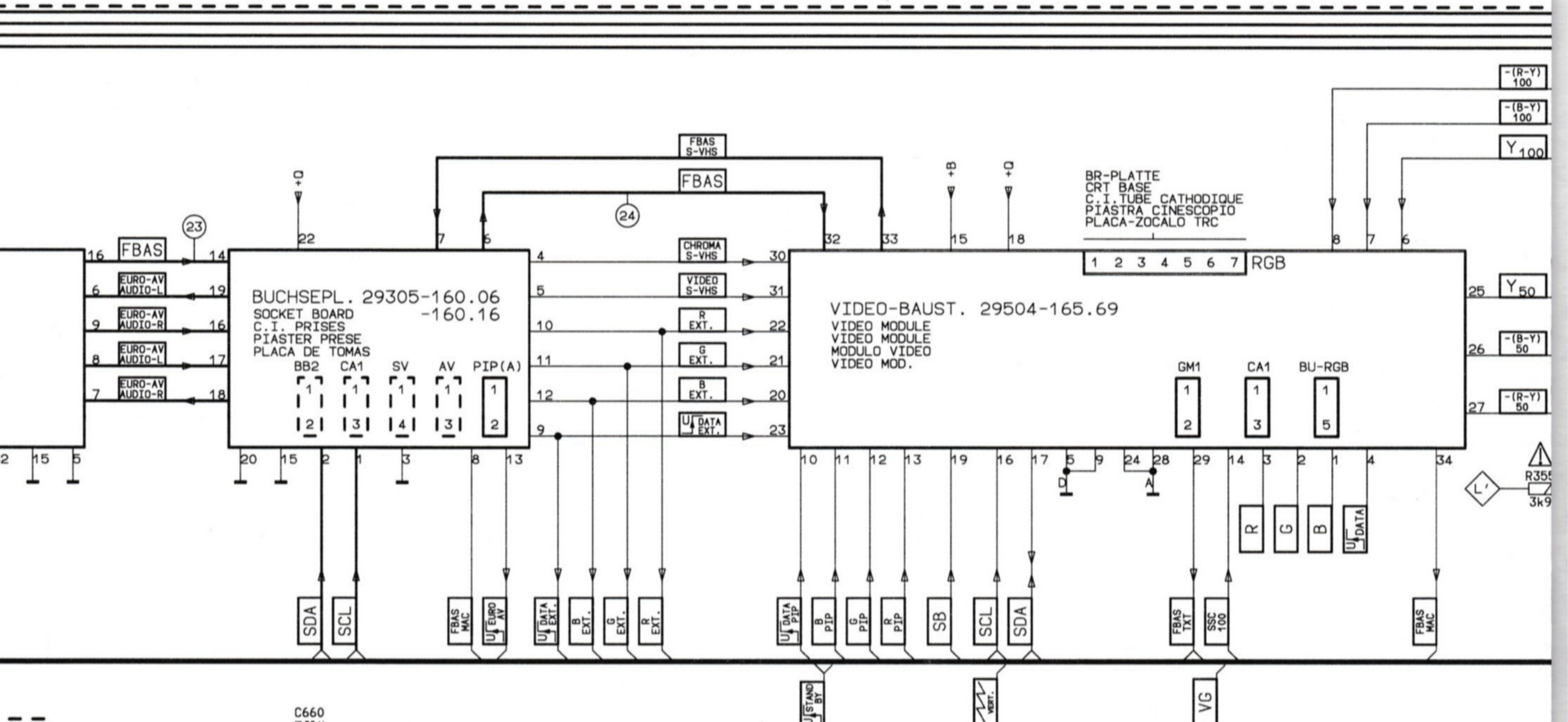
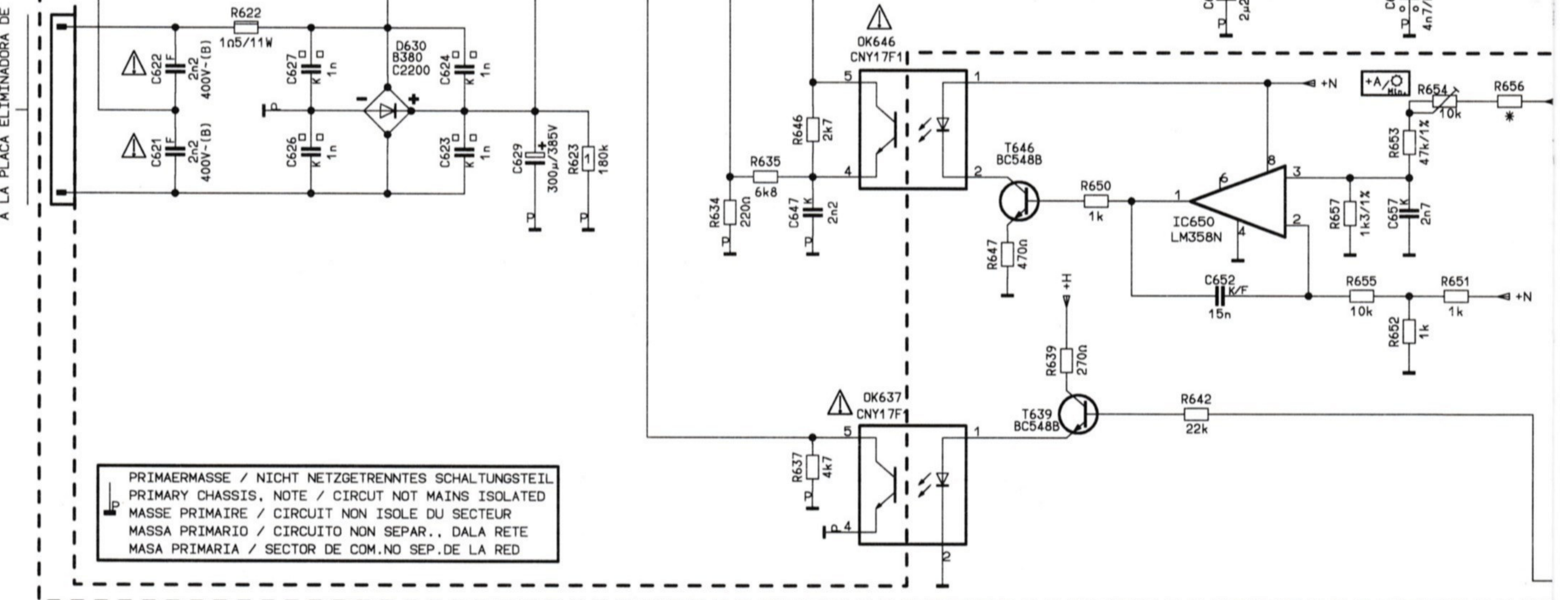
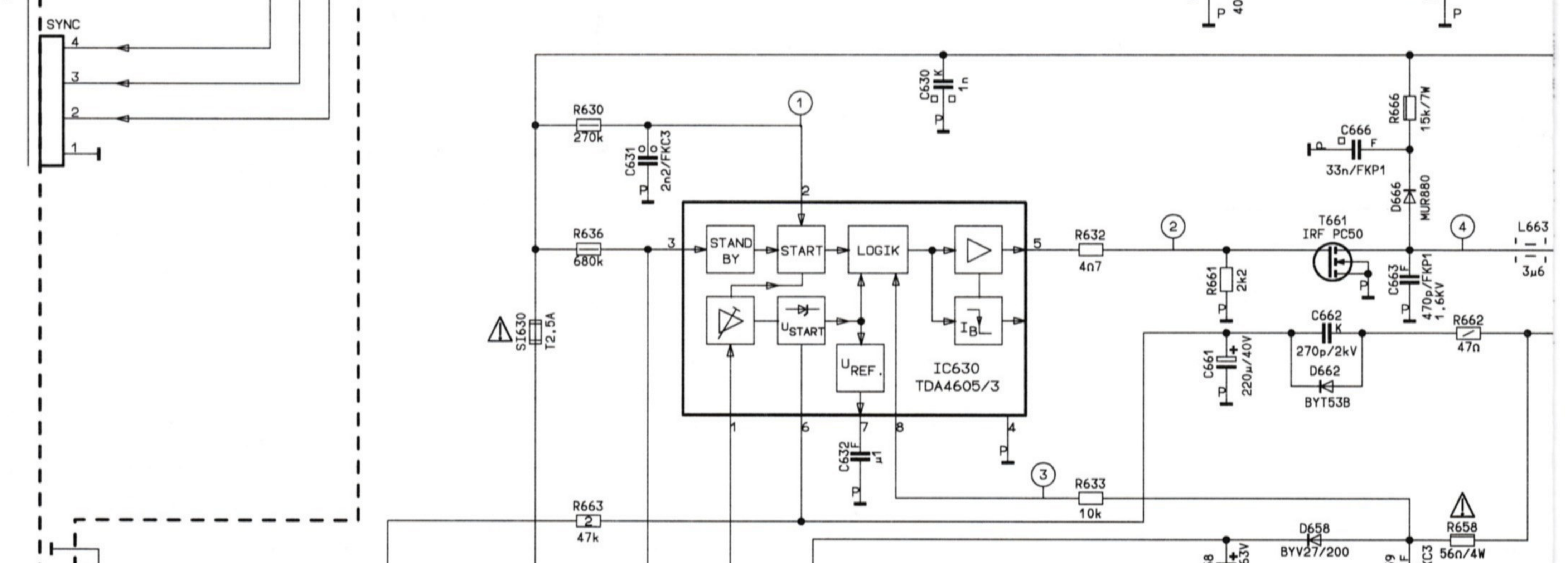
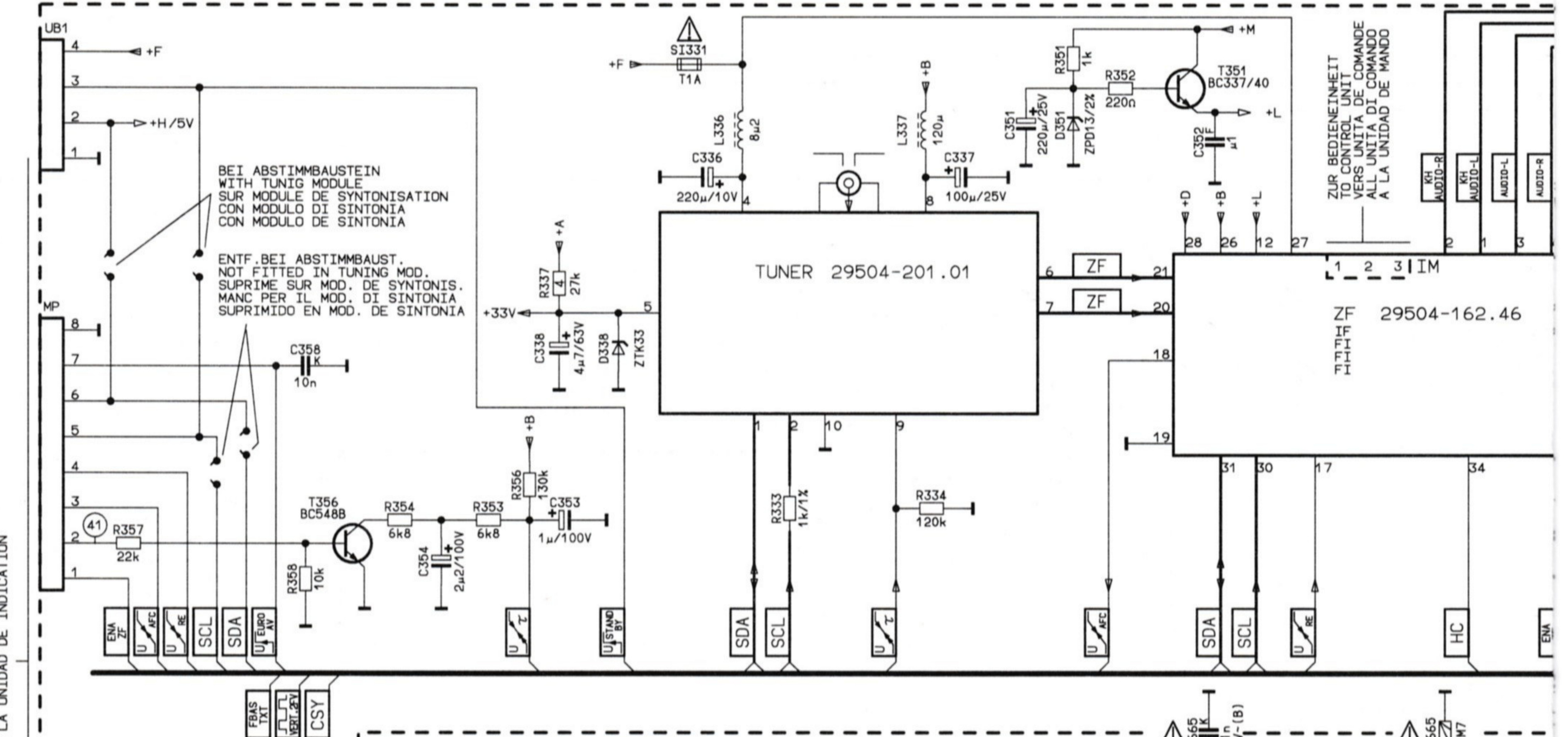


TP 760

(29622-059.01)

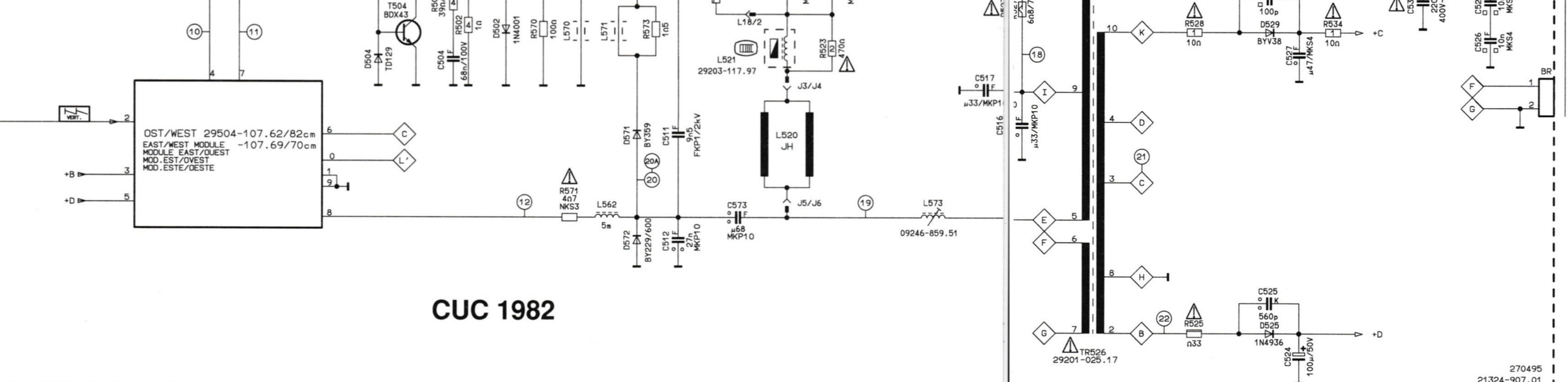
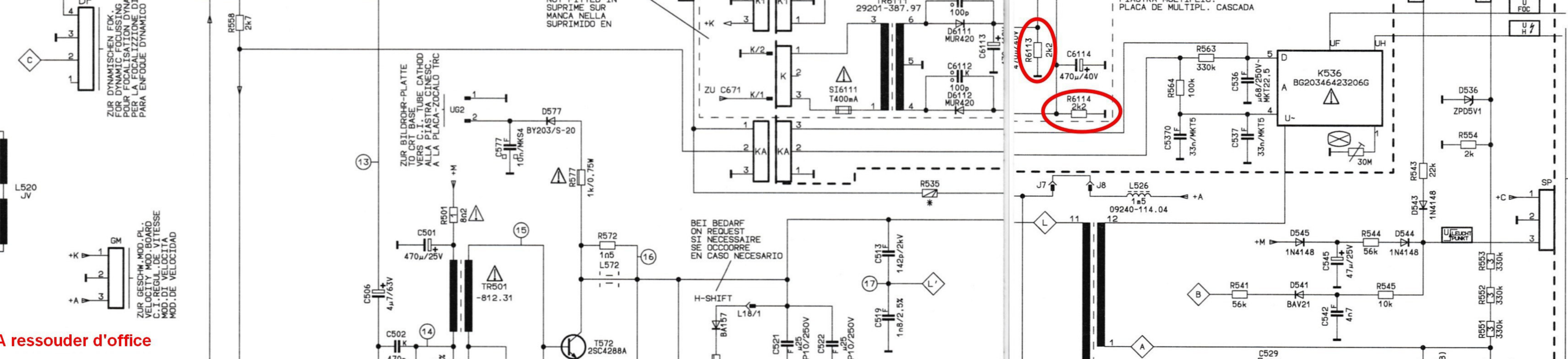
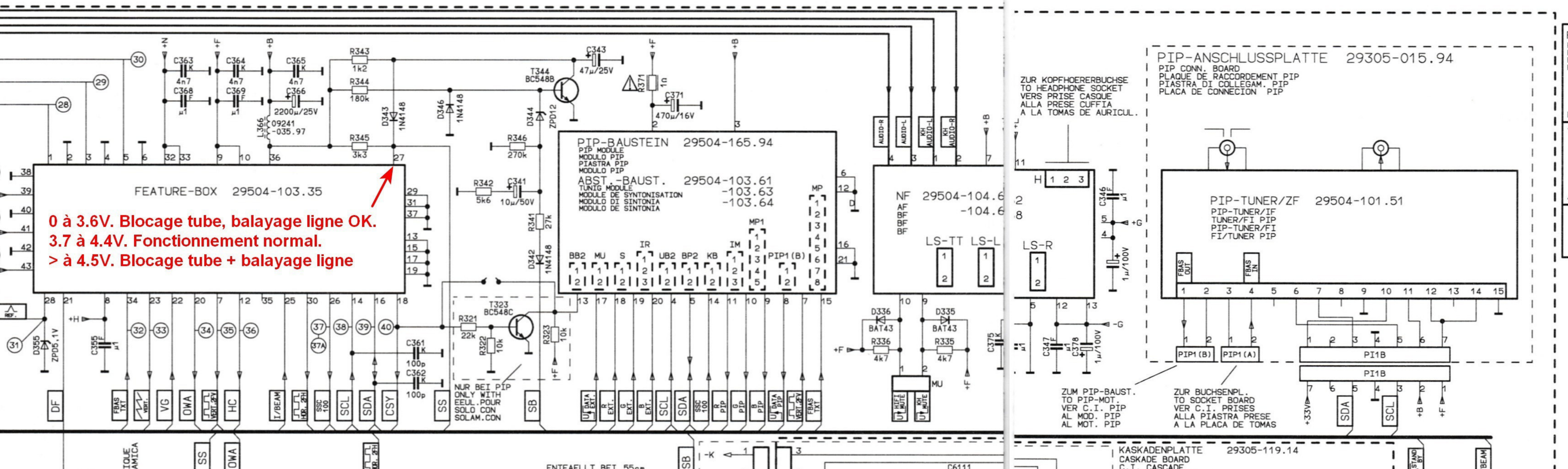


Gesamtschaltplan / General Circuit Diagram / Schema Completo



IC trame HS à répétition. Mettre uniquement un TDA 473 AF R407 doit être de 1K. R414 passe de 2.2ohms à 3.3ohms. D403 passe de ZPD 5.1V à 5.6V. Modifications cascades: R613 passe de 330Kohms à 2.2Kohms R6114 passe de 47Kohms à 2.2Kohms.

Table with 5 columns (R408-R656) and 5 rows (70n, 82n, 82n) listing resistor values and their corresponding part numbers.



0 à 3.6V. Blocage tube, balayage ligne OK. 3.7 à 4.4V. Fonctionnement normal. > à 4.5V. Blocage tube + balayage ligne

A ressolder d'office

CUC 1982

ZUR ANSCHLUSSEINHEIT... TO HEADPHONE... PLACA DE CONEXION...

ZUR ANSCHLUSSEINHEIT... TO INTERPHONE... PLACA DE CONEXION...

PRIMERMASSE / NICHT NETZGETRENNTES SCHALTUNGSSTELL... PRIMARY CHASSIS / CIRCUIT NOT MAINS ISOLATED...

ZUR NETZSCHALTERPLATTE... TO MAINS SWITCH PANEL... ALA PIASTRA INTERR. DI RETE...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

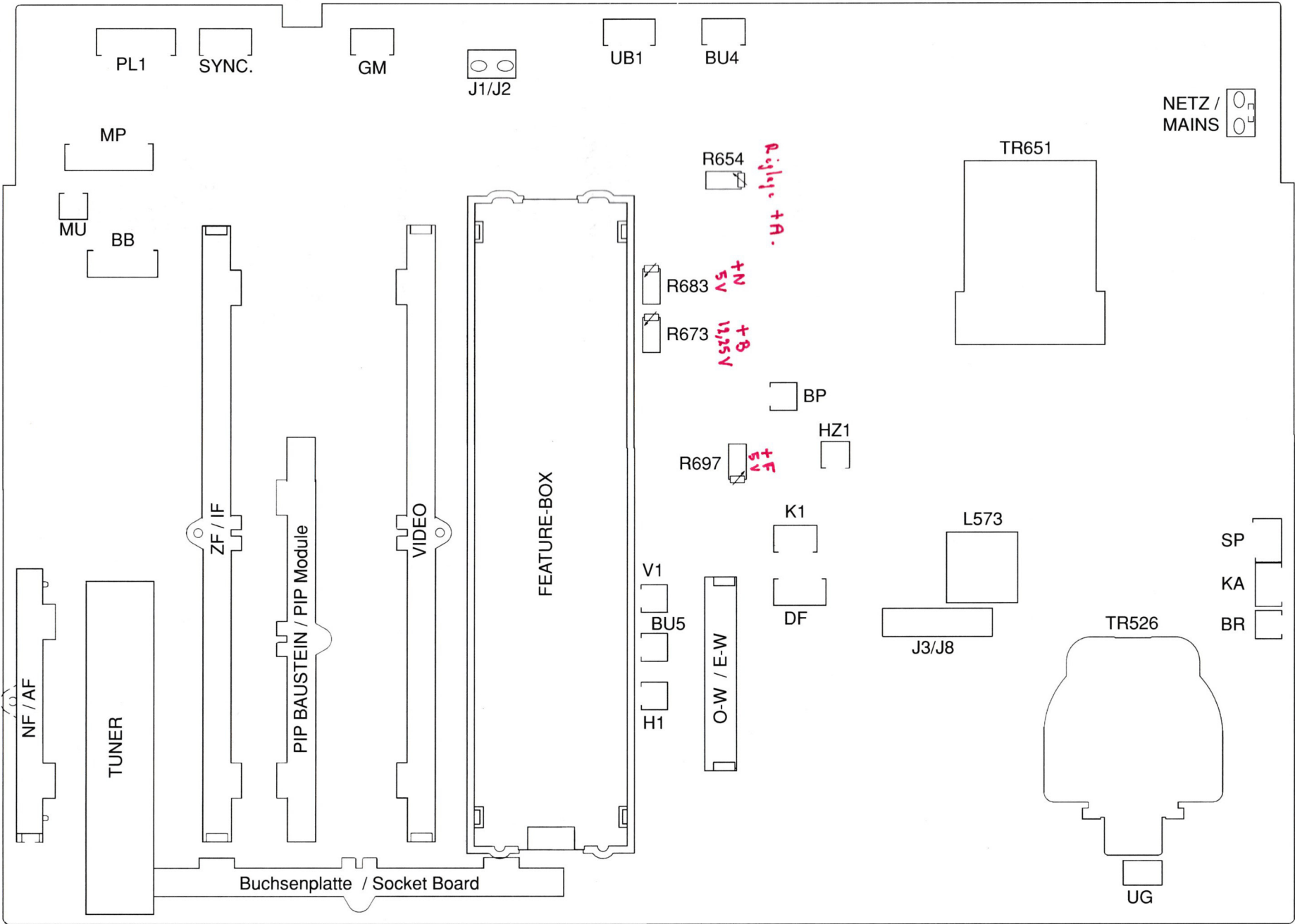
ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

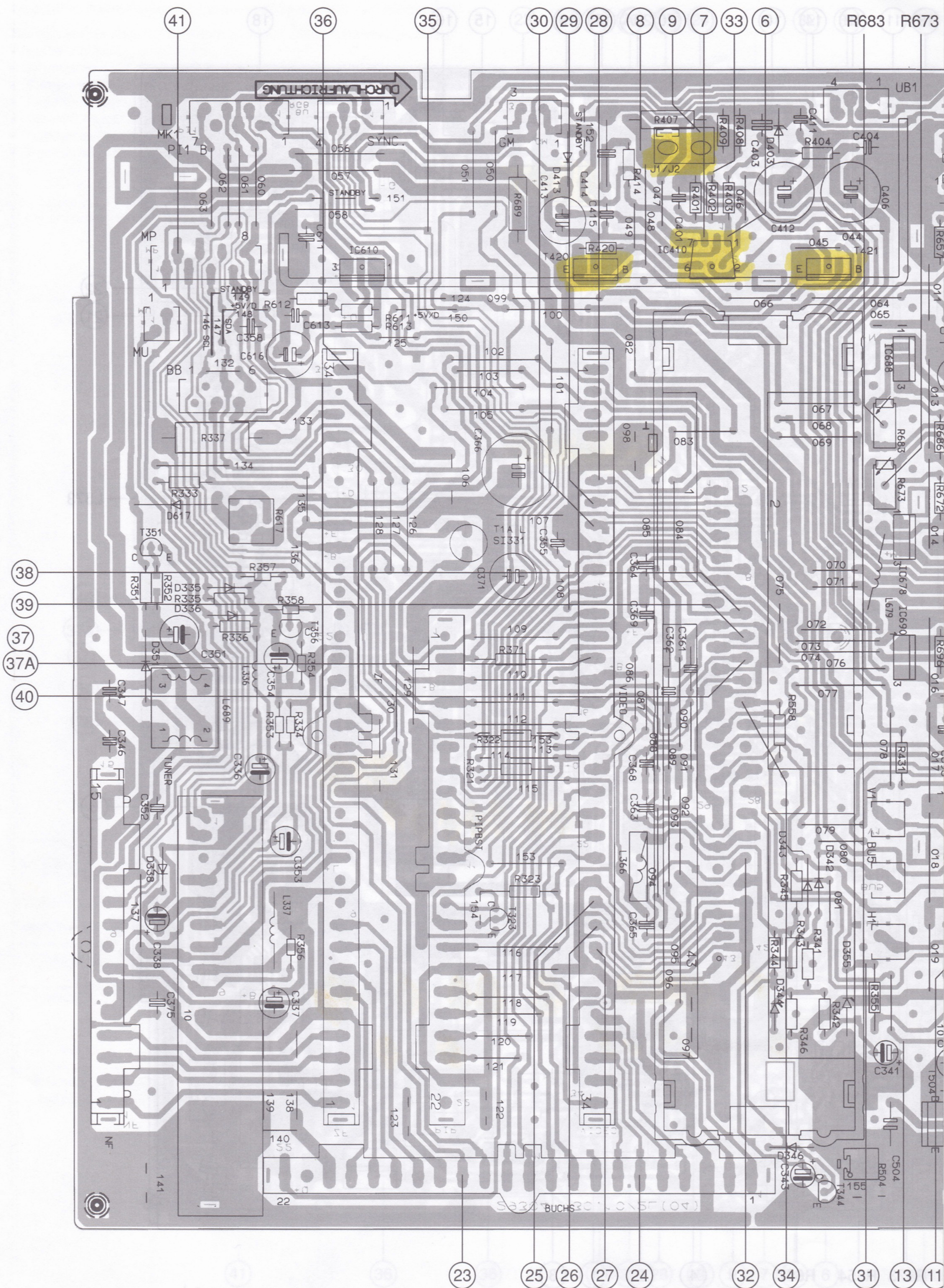
ZUR BILDSCHIRM-PLATTE... TO CRT CASE... ALA PIASTRA CATHODE... ALA PLACA ZOCALDO TRC...

BEZUGSPOTENTIAL VON REFERENCE POTENTIAL OF REFERENCE POTENTIAL... +8V/-8V/-27V

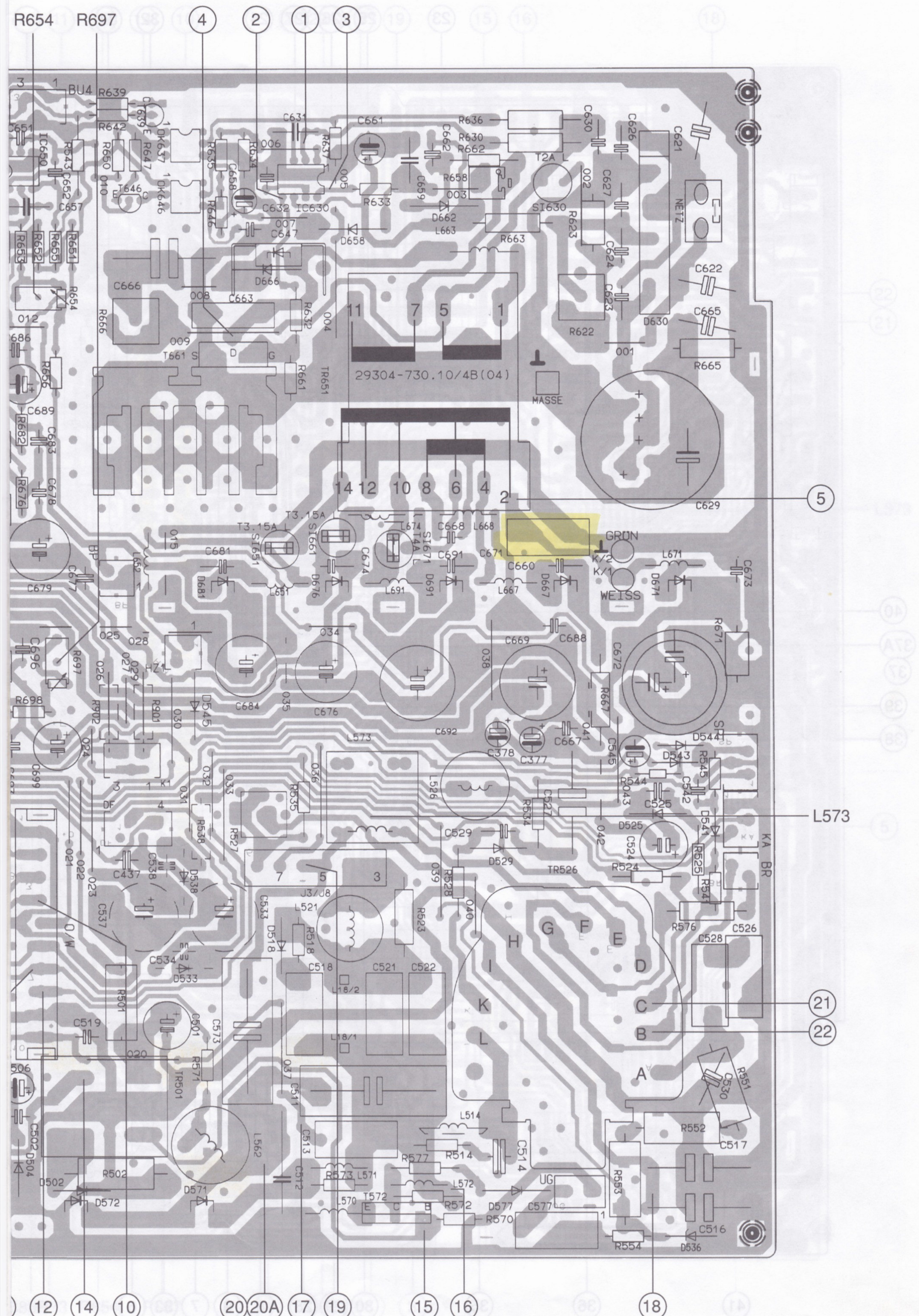
Abgleichlageplan / Alignment Layout



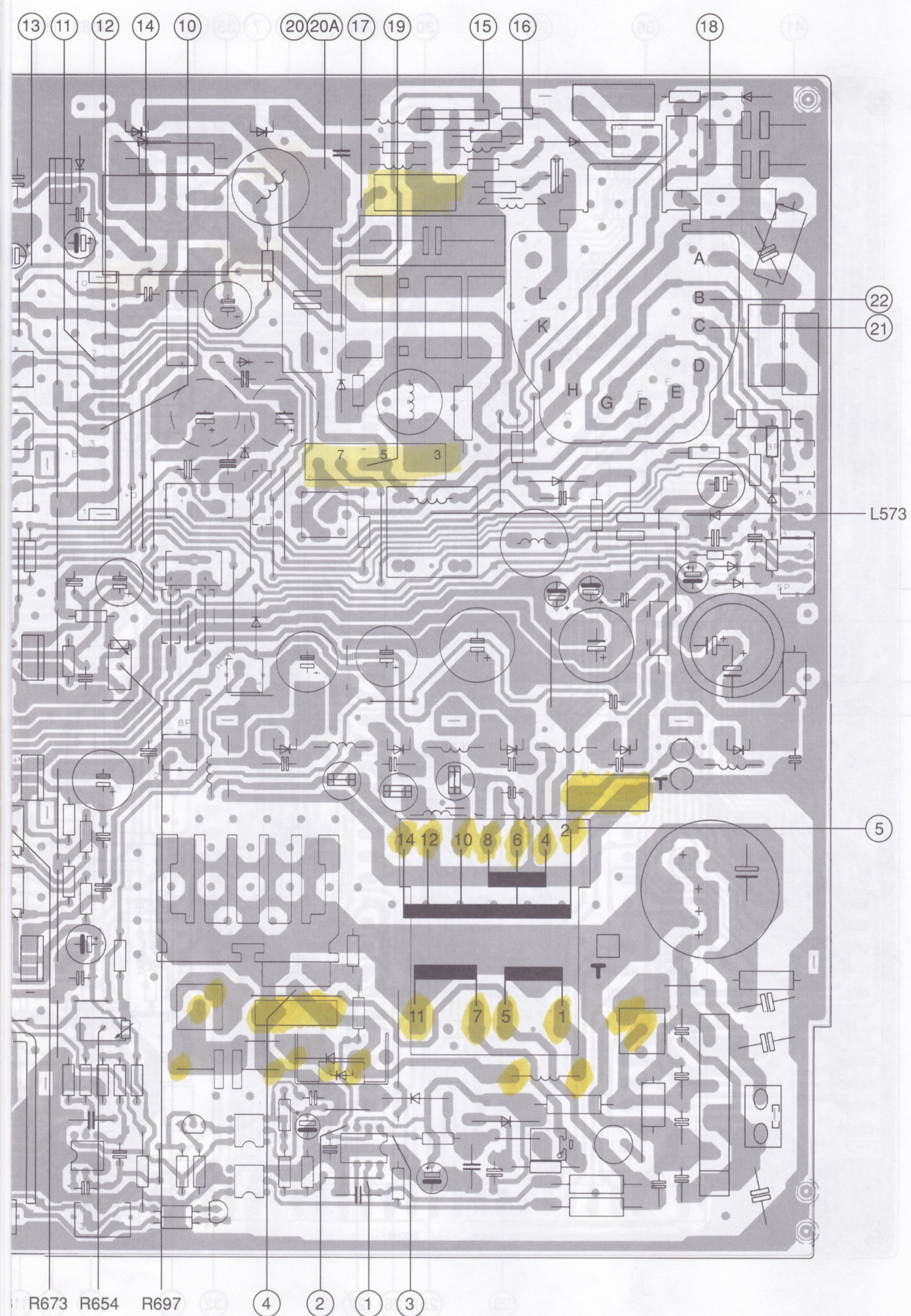
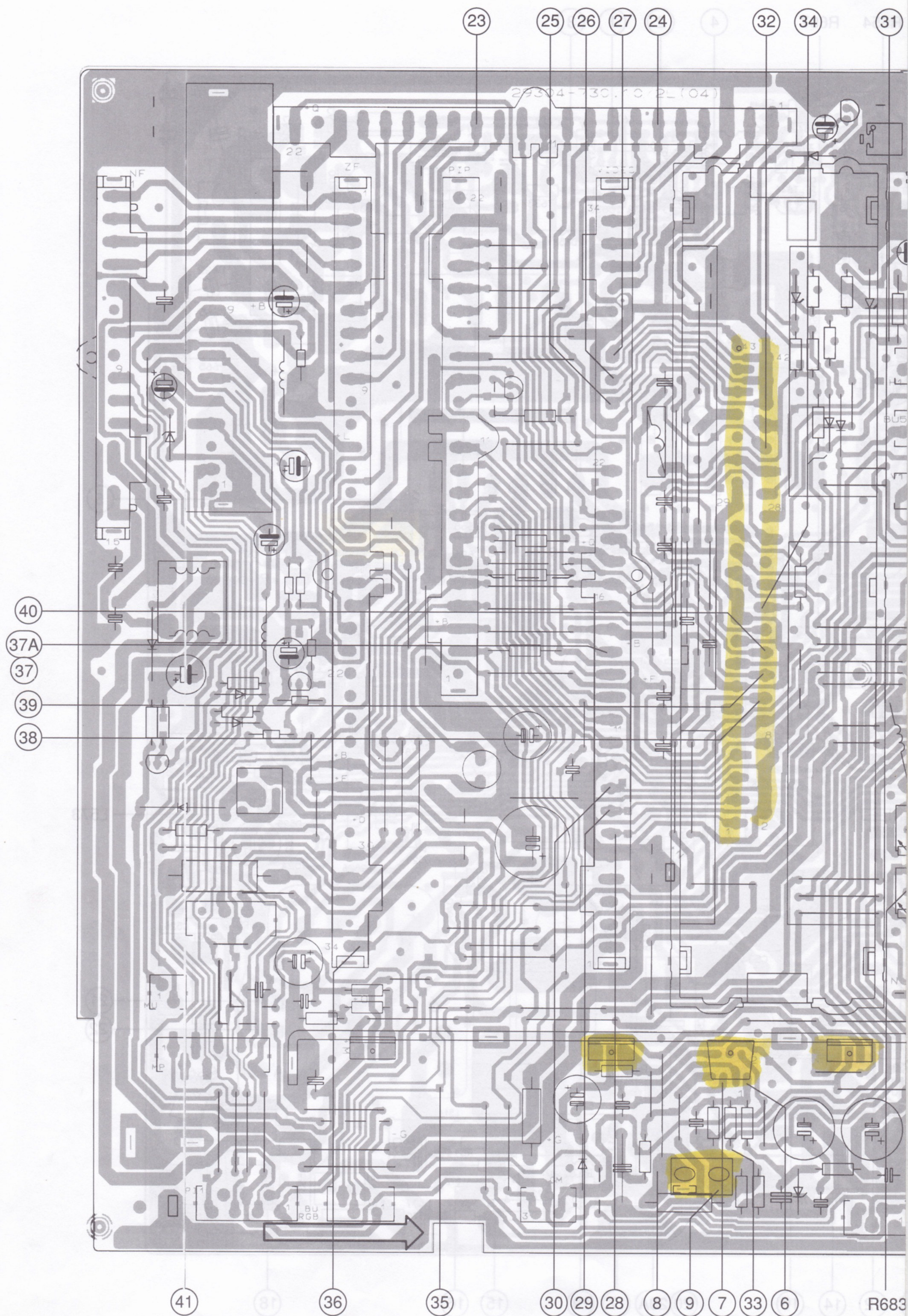
Chassisplatte / Chassis Board



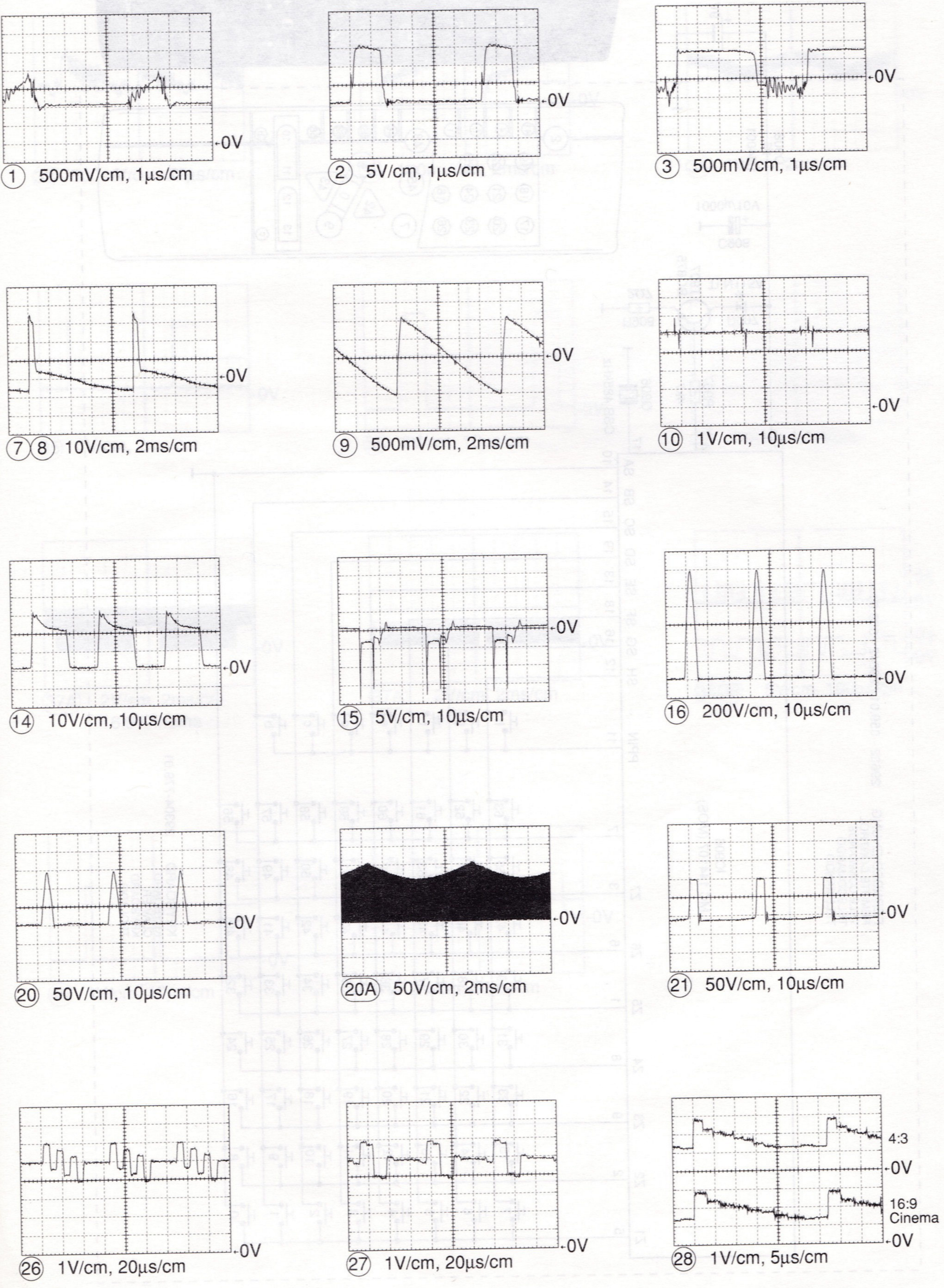
Chassisplatte / Chassis Board



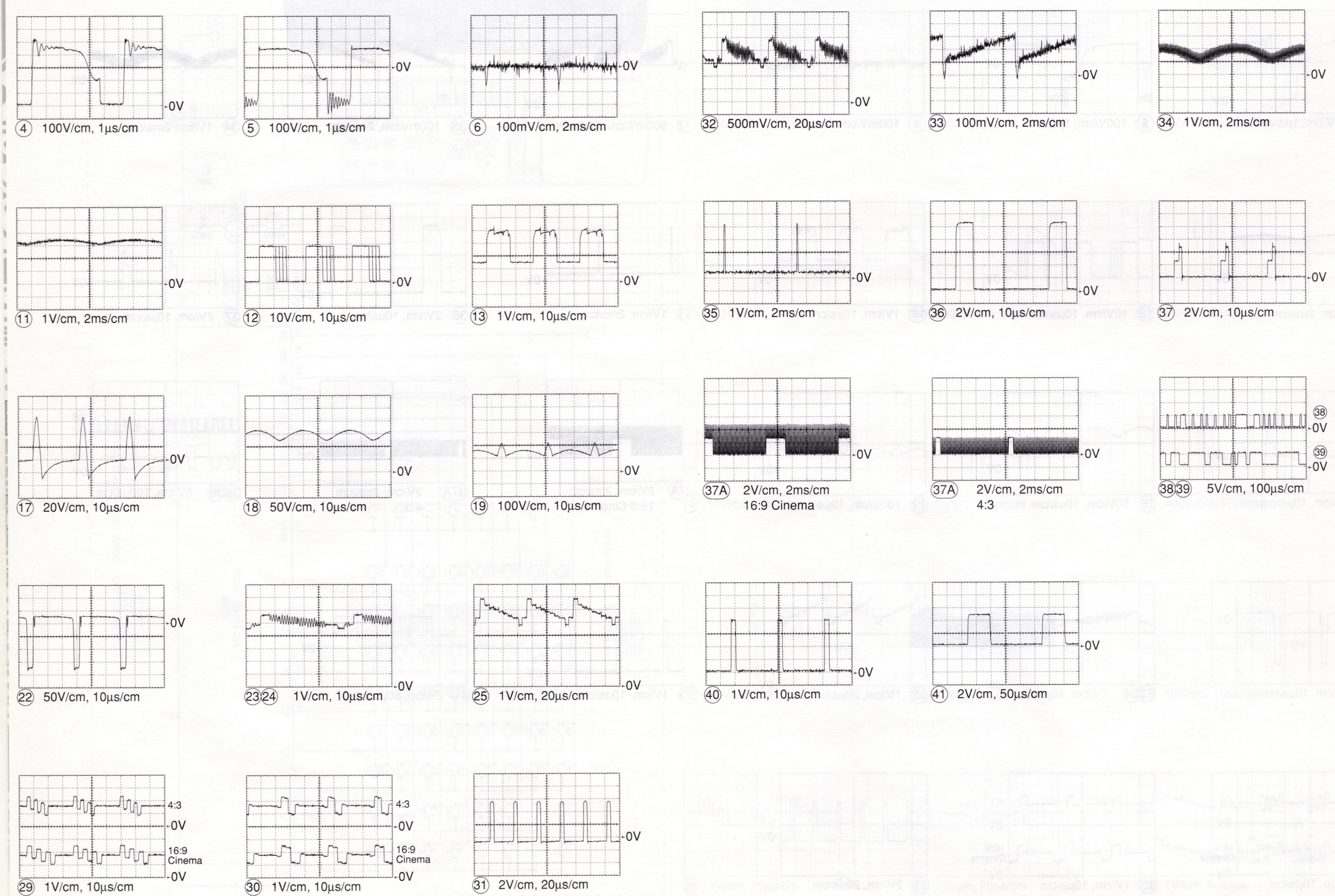
Chassisplatte / Chassis Board



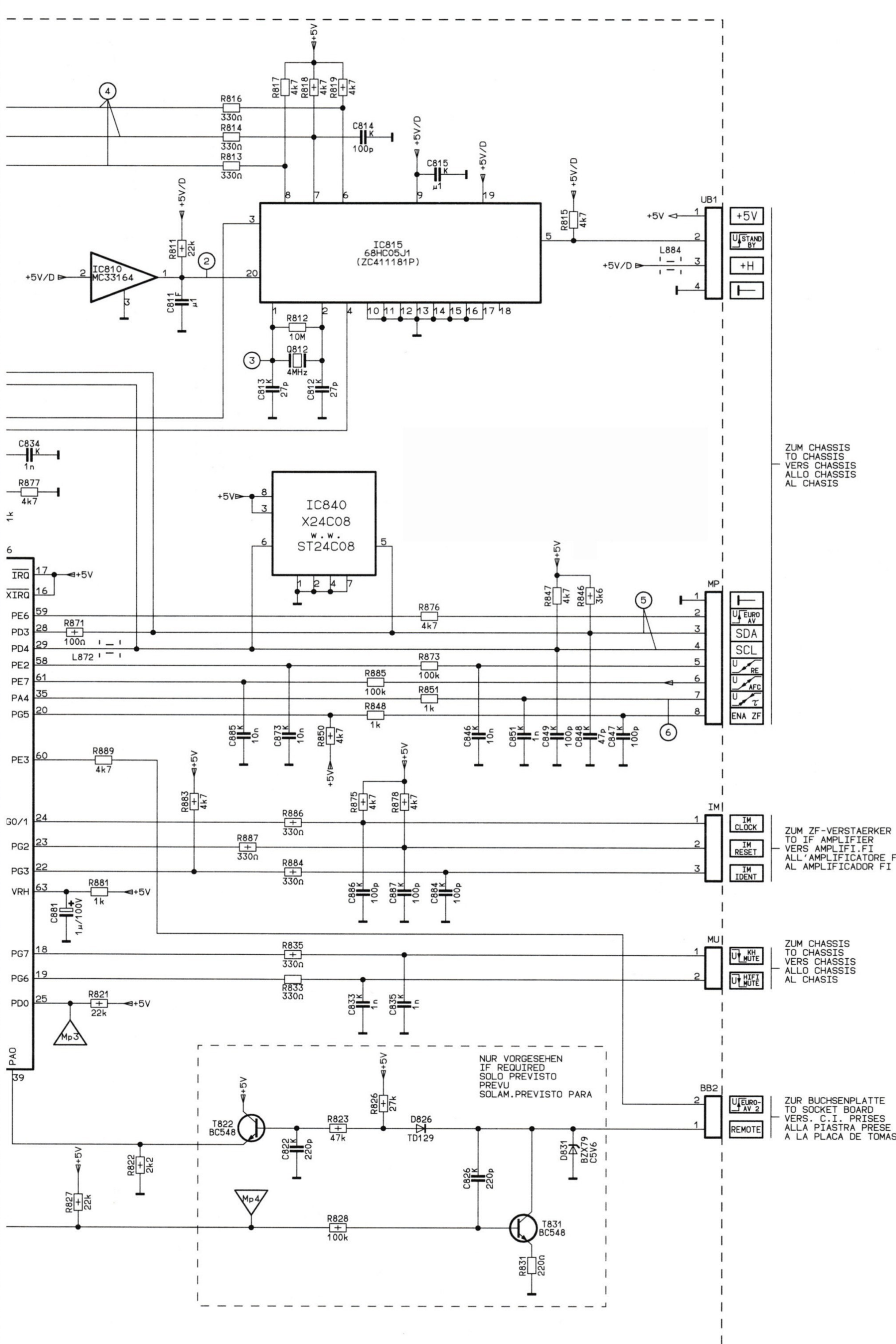
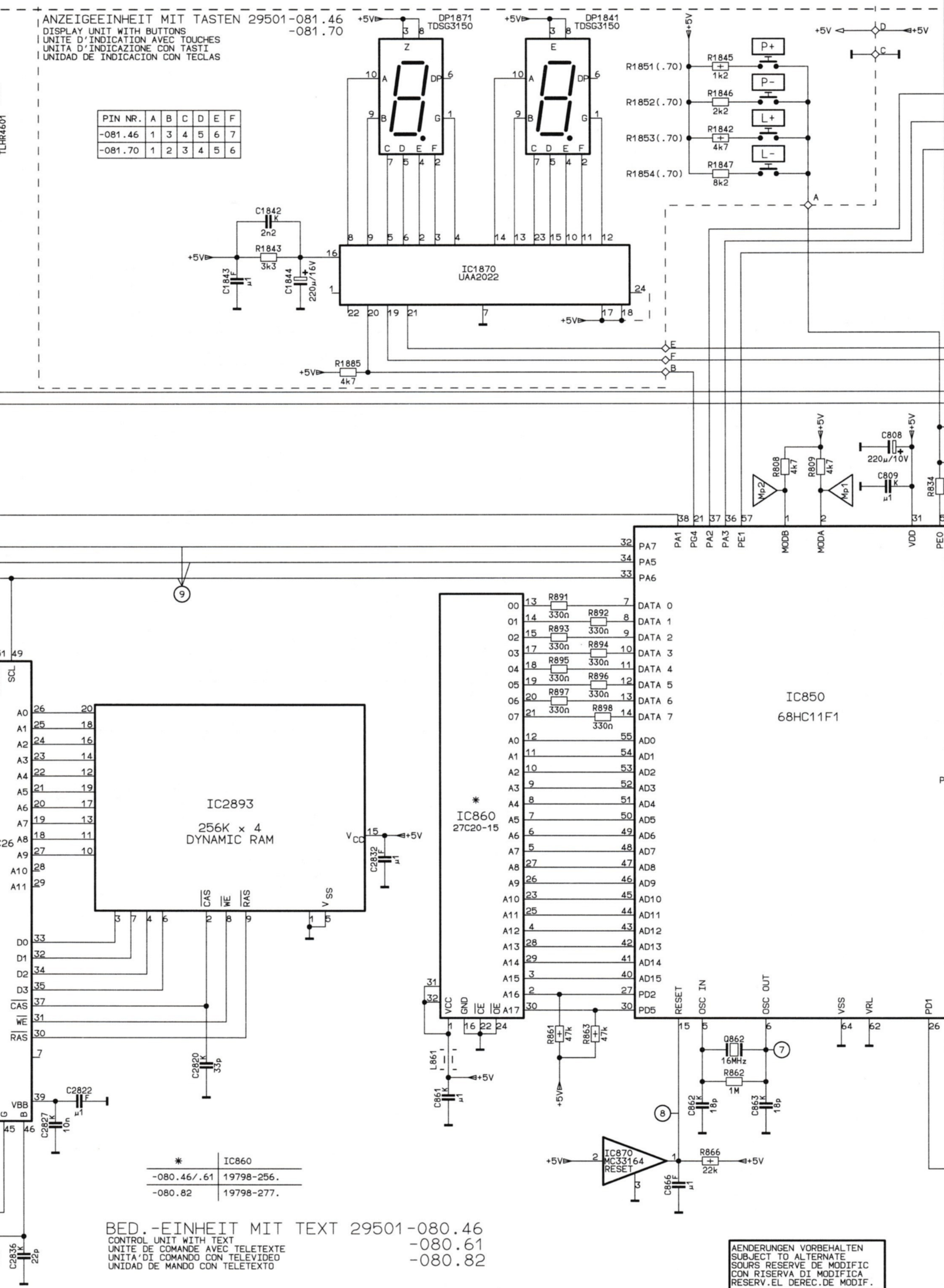
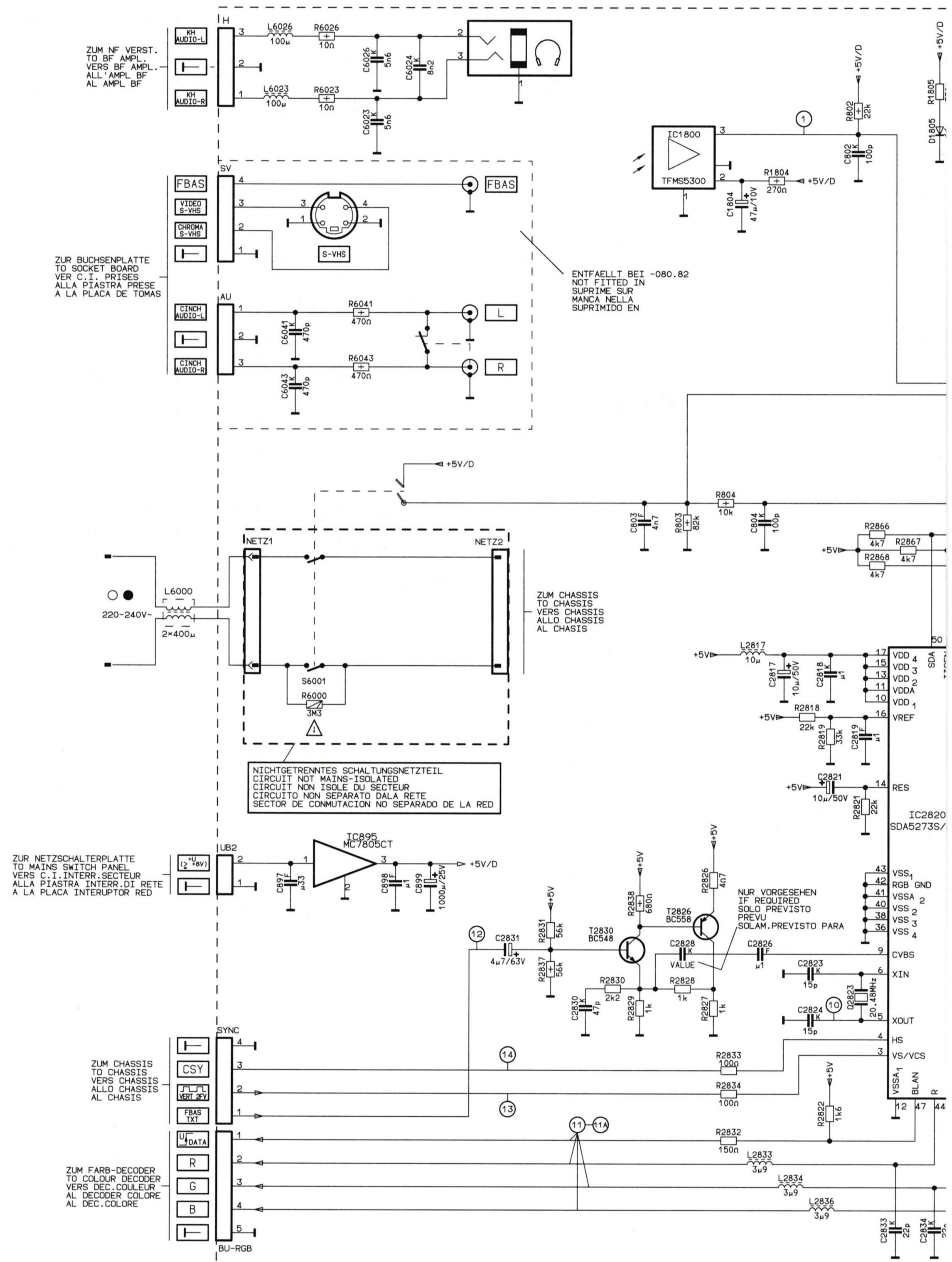
Oszillogramme Chassisplatte Oscillograms Chassis Board



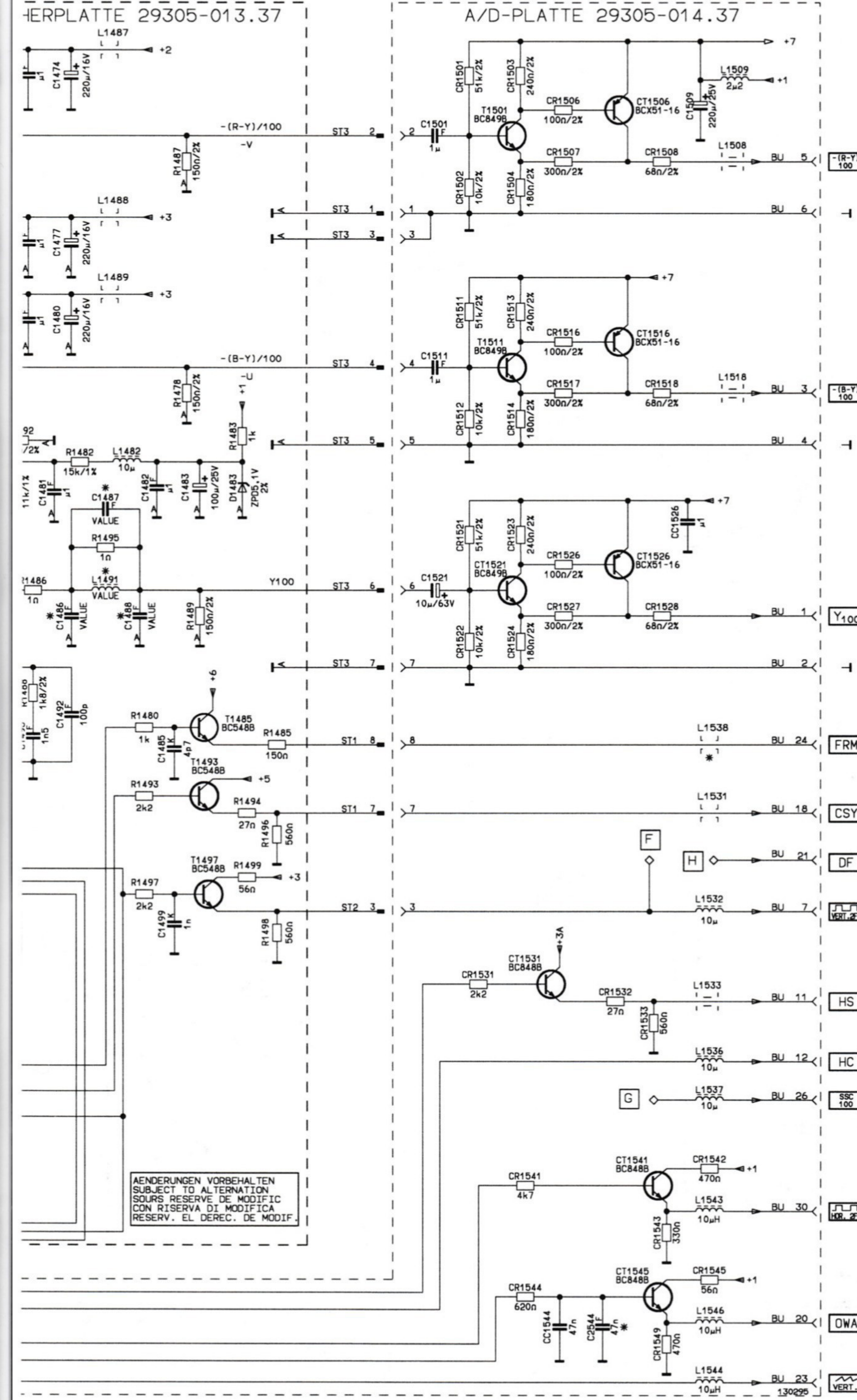
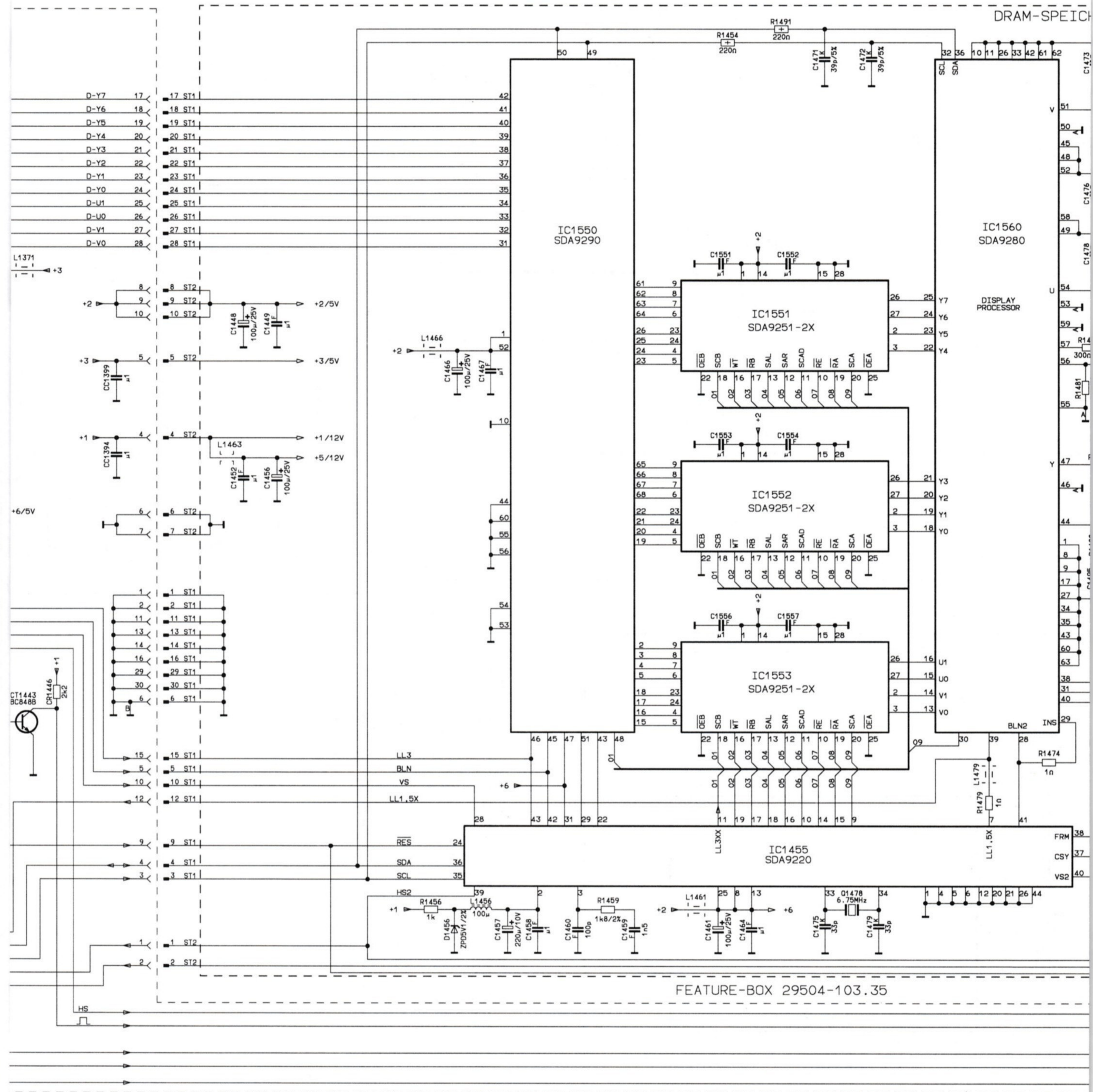
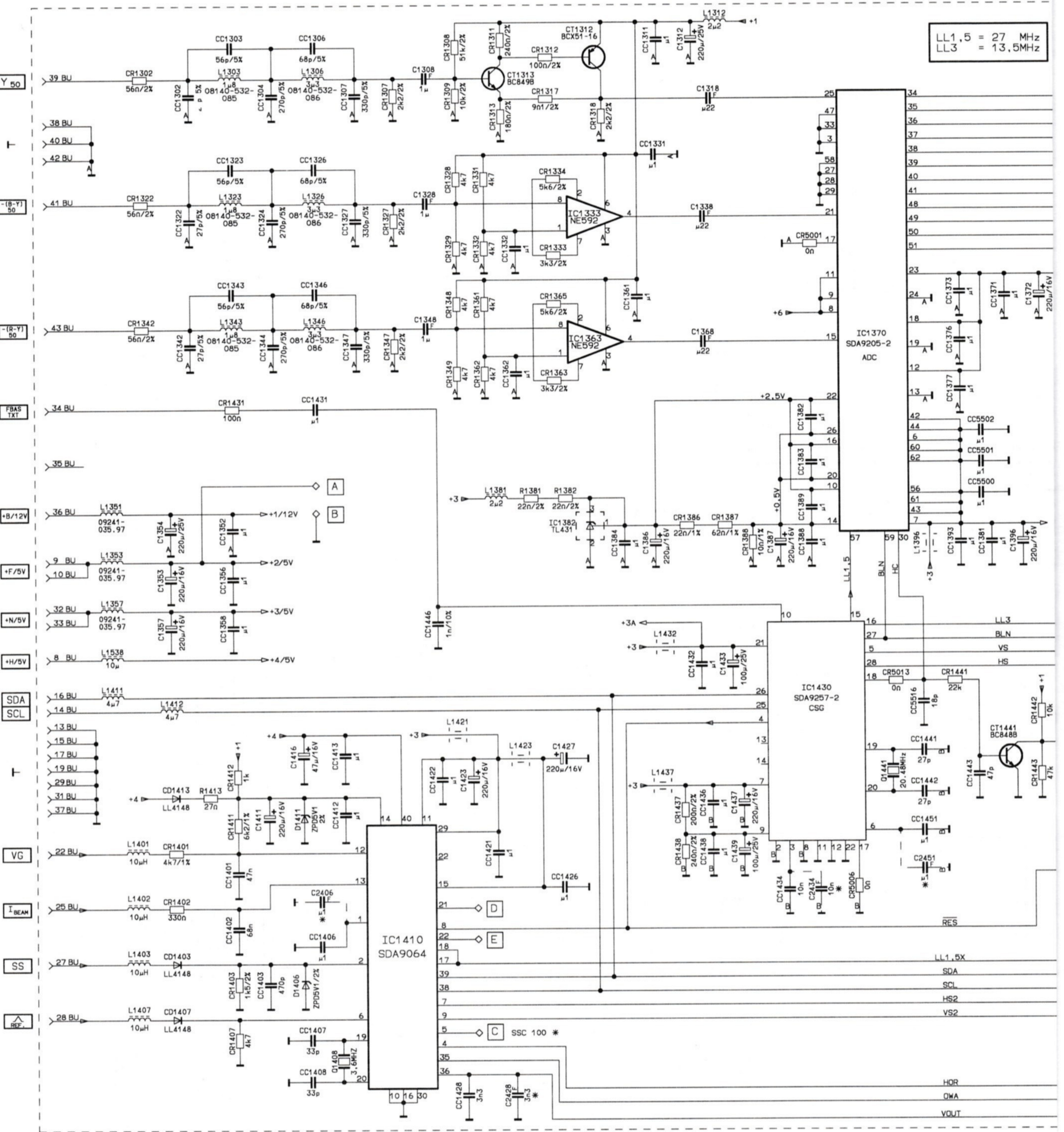
Oszillogramme Chassisplatte Oscillograms Chassis Board



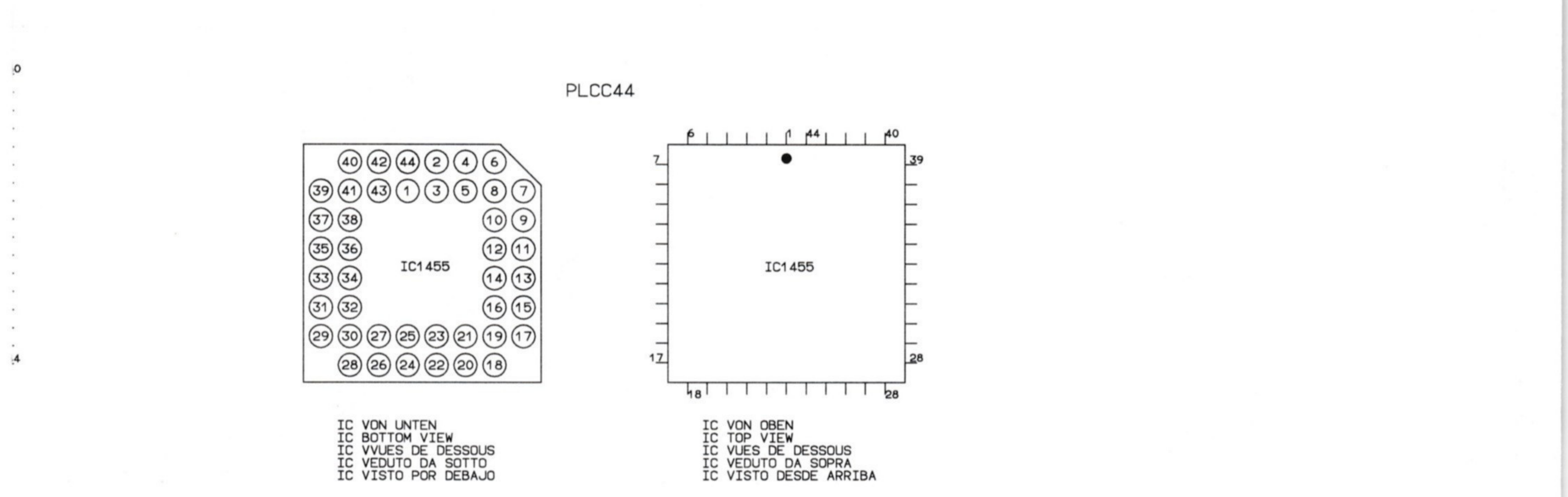
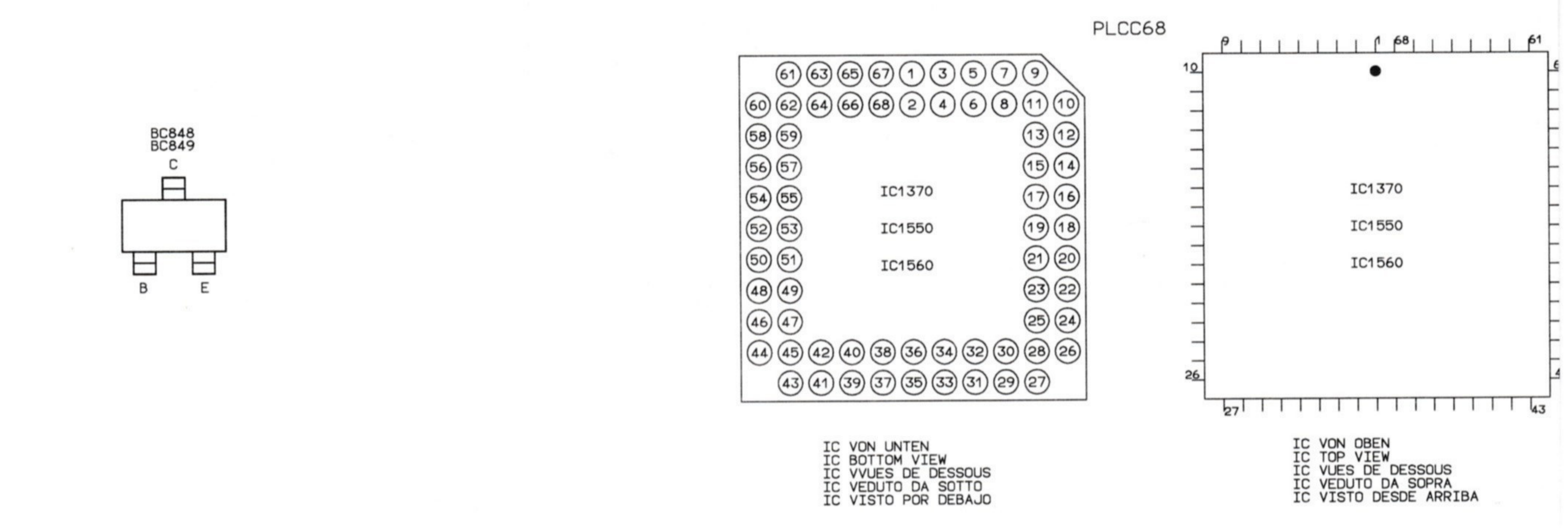
Bedieneinheit mit Text / Control Unit with Text / Unita di Comando con Teletexto



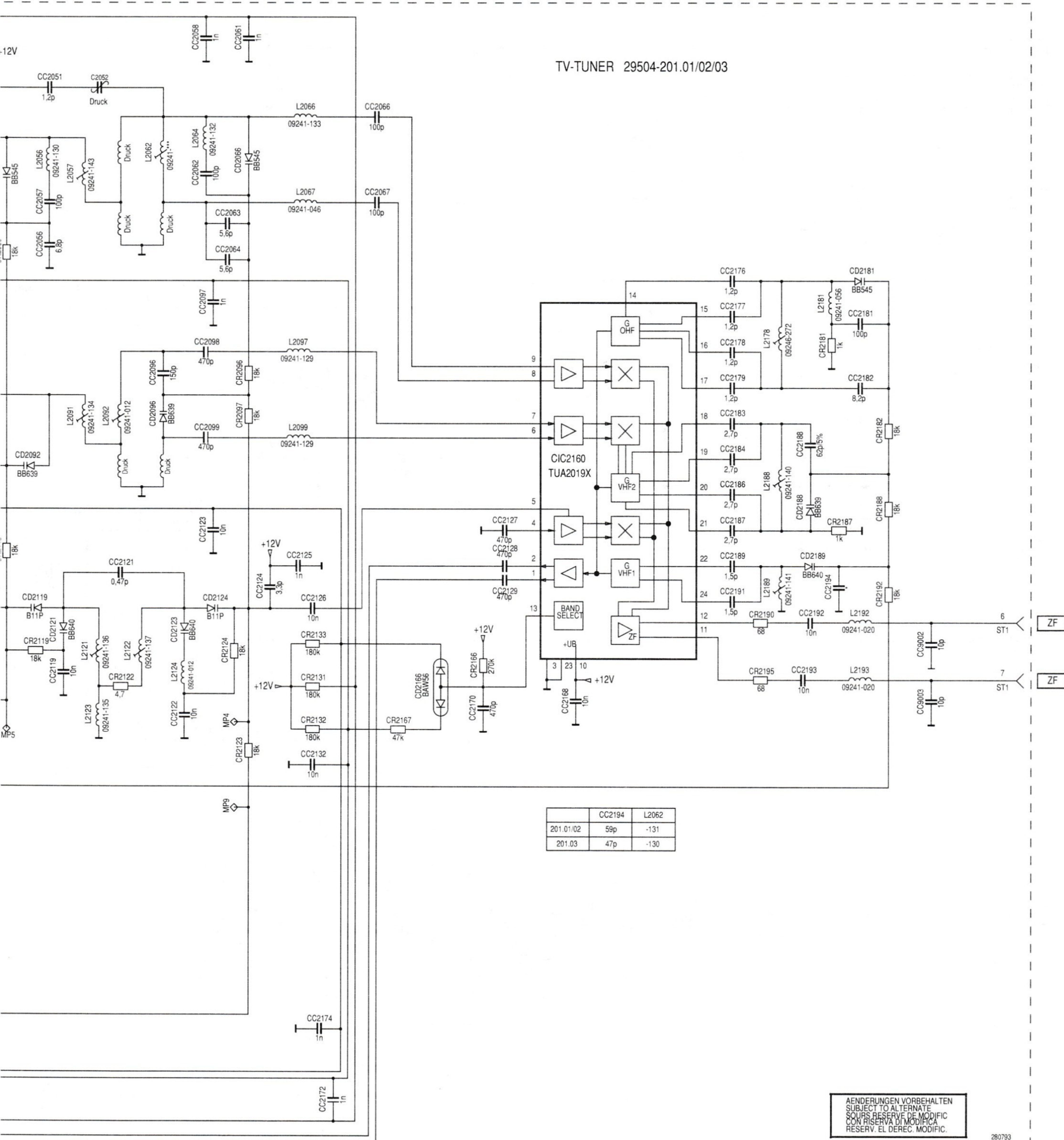
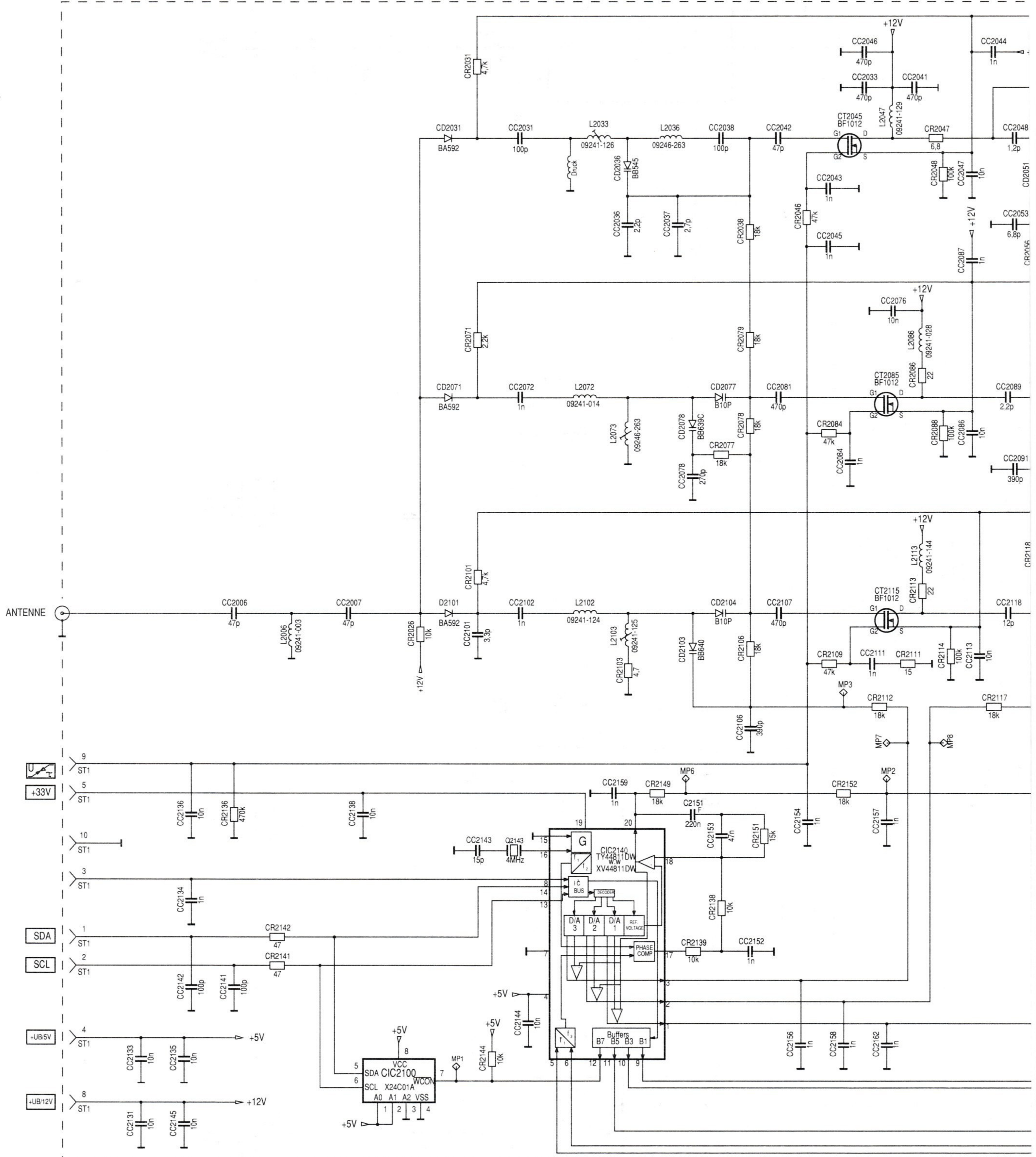
Feature-Box



	BU-	ST1	ST2	ST3
01	Y/100	MASSE	HS2	MASSE ANALOG
02	(-Y)/100	MASSE	VS2	(-R-Y)/100
03	(-B-Y)/100	SCL	VERT. 2FV	MASSE ANALOG
04	MASSE	SDA	+1/12V	(-B-Y)/100
05	(-R-Y)/100	MASSE	BLN	MASSE ANALOG
06	MASSE	MASSE	MASSE	Y/100
07	VERT. 2FV	CSY	MASSE	MASSE ANALOG
08	(+H (+4/5V))	FRM	+2/5V	
09	(+F (+2/5V))	RES	+2/5V	
10	(+V (+2/5V))	VS	+2/5V	
11	HS	MASSE		
12	HC	LL1.5X		
13	MASSE	MASSE		
14	SCL	MASSE		
15	MASSE	LL3		
16	SDA	MASSE		
17	MASSE	D-Y7		
18	CSY	D-Y6		
19	MASSE	D-Y5		
20	DWA	D-Y4		
21	DF	D-Y3		
22	VG	D-Y2		
23	VERT. 2FV	D-Y1		
24	FRM	D-Y0		
25	IBEAM	D-U1		
26	SSC/100	D-U0		
27	SS	D-V1		
28	REF	D-V0		
29	MASSE	MASSE		
30	HCR. 2FH	MASSE		
31	MASSE			
32	(+N (+3/5V))			
33	(+N (+3/5V))			
34	BAS			
35	FREI			
36	(+B (+1/12V))			
37	MASSE			
38	MASSE ANALOG			
39	Y50			
40	MASSE ANALOG			
41	(-B-Y)/50			
42	MASSE ANALOG			
43	(-R-Y)/50			

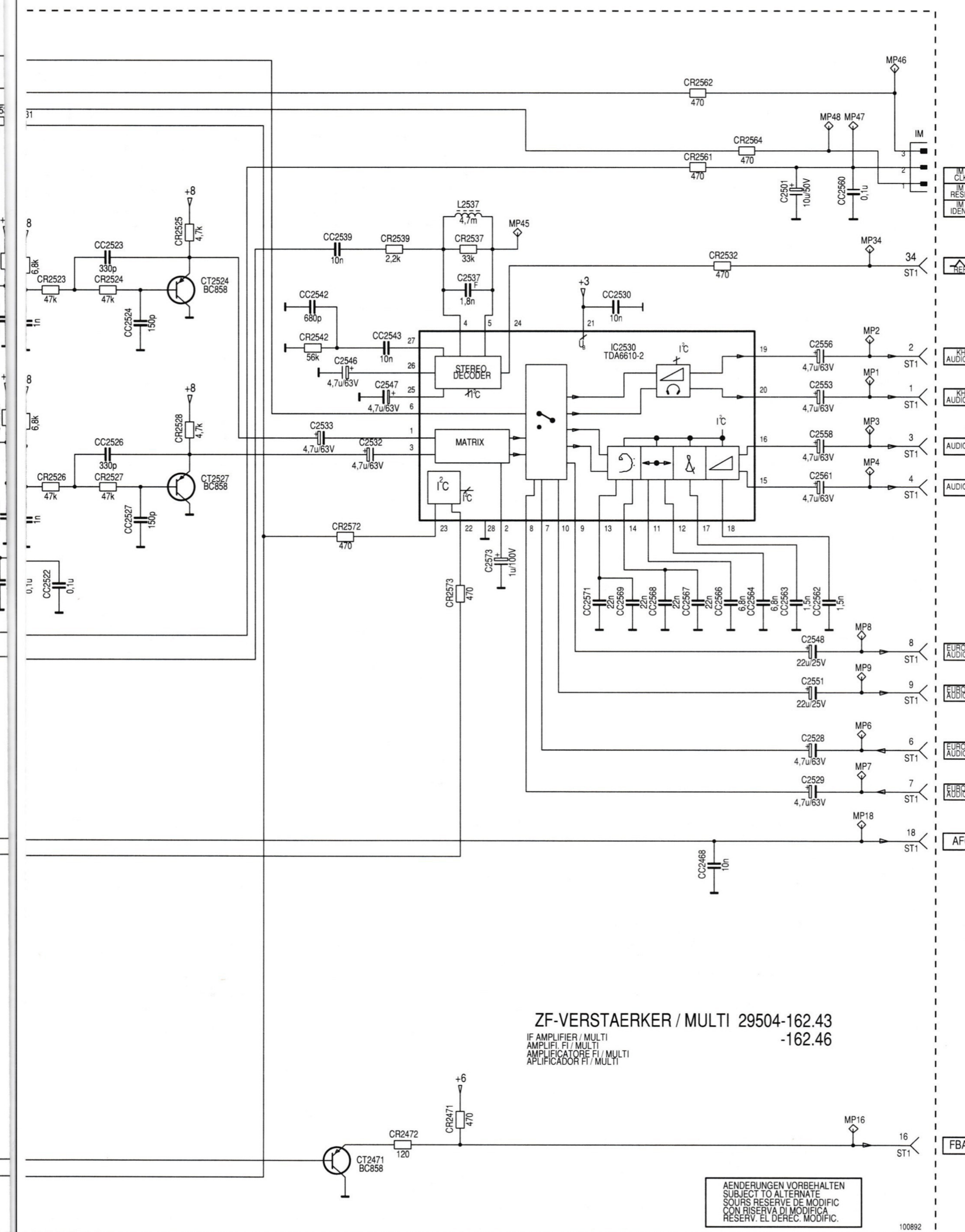
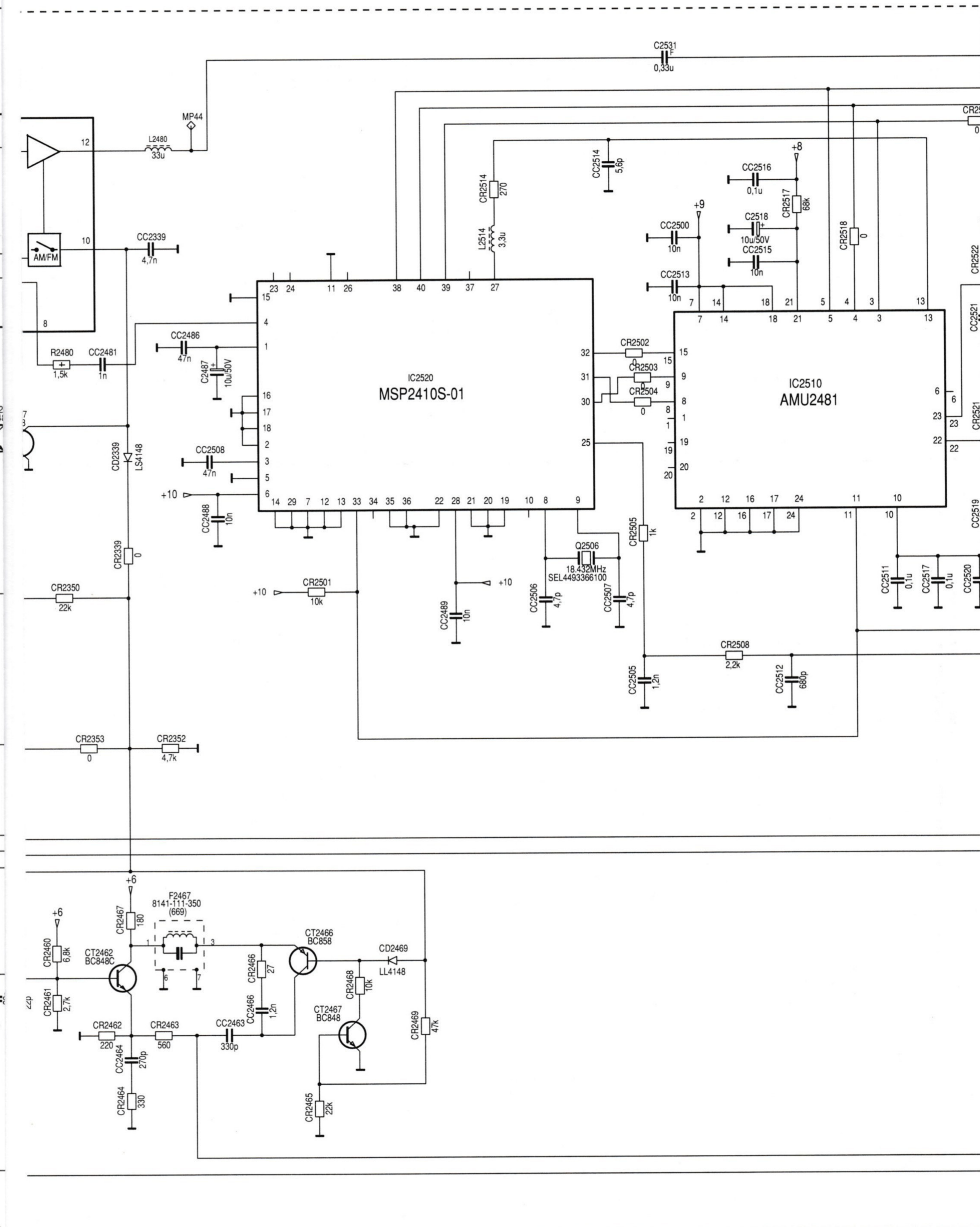
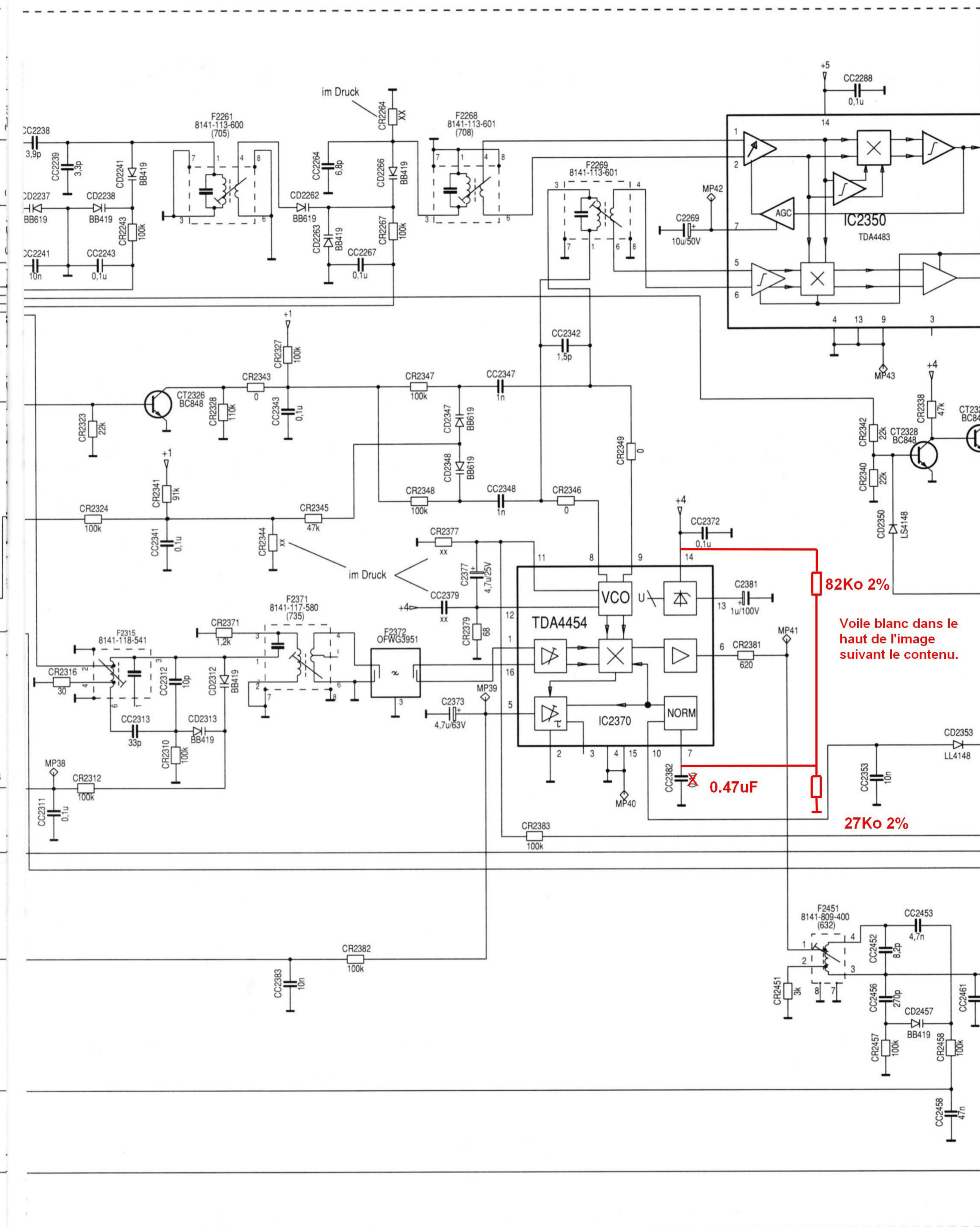
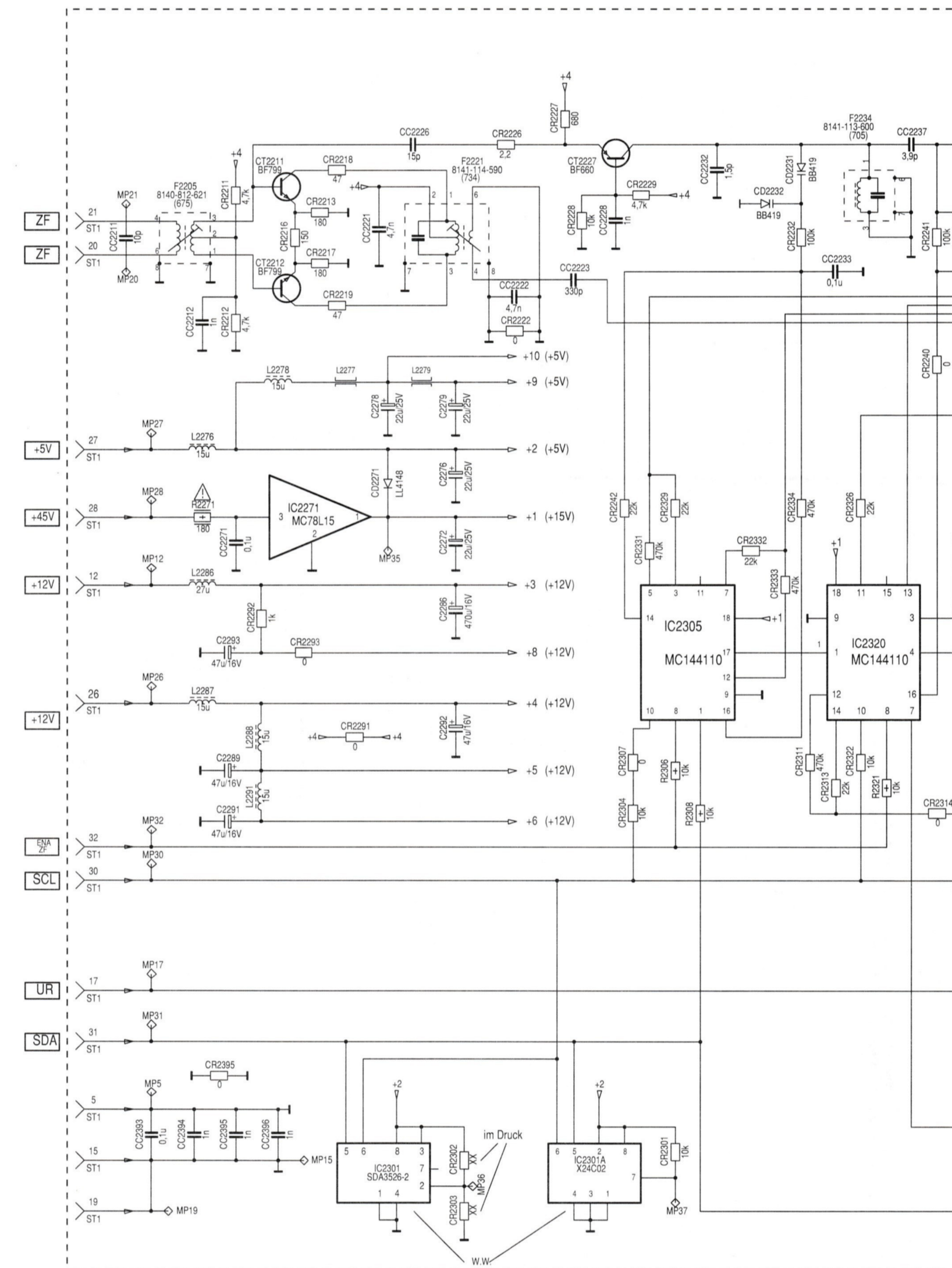


* NUR VORGESEHEN
ONLY IF REQUIRED
PREVIU
SOLA PREVISTO
SOLAM PREVISTO



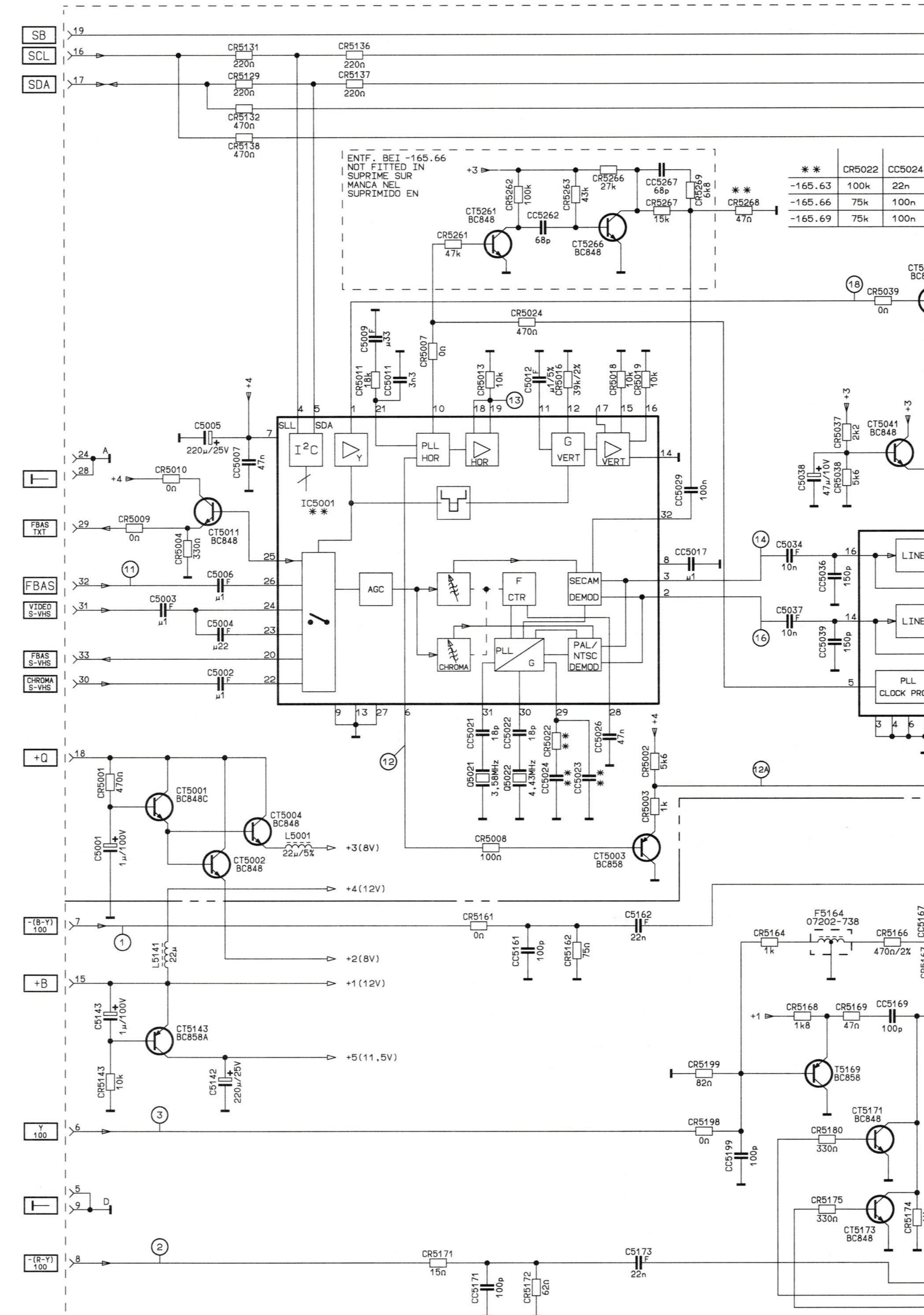
TV-TUNER 29504-201.01/02/03

ÄNDERUNGEN VORBEHALTEN
 SUBJECT TO ALTERNATE
 SOURS RESERVE DE MODIFIC
 ON RESERVA U MODIFICA
 RESERV EL DERECH. MODIFIC.

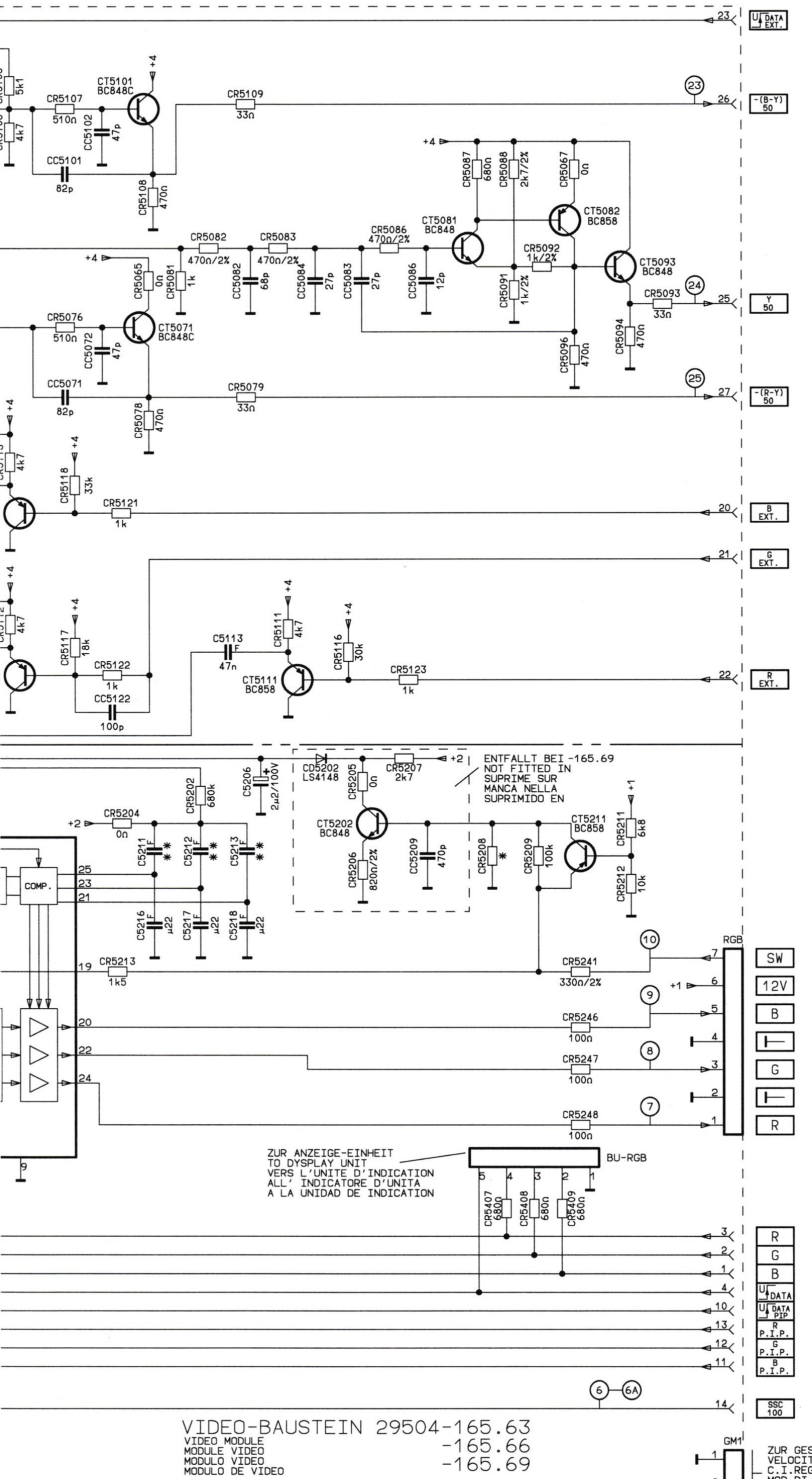
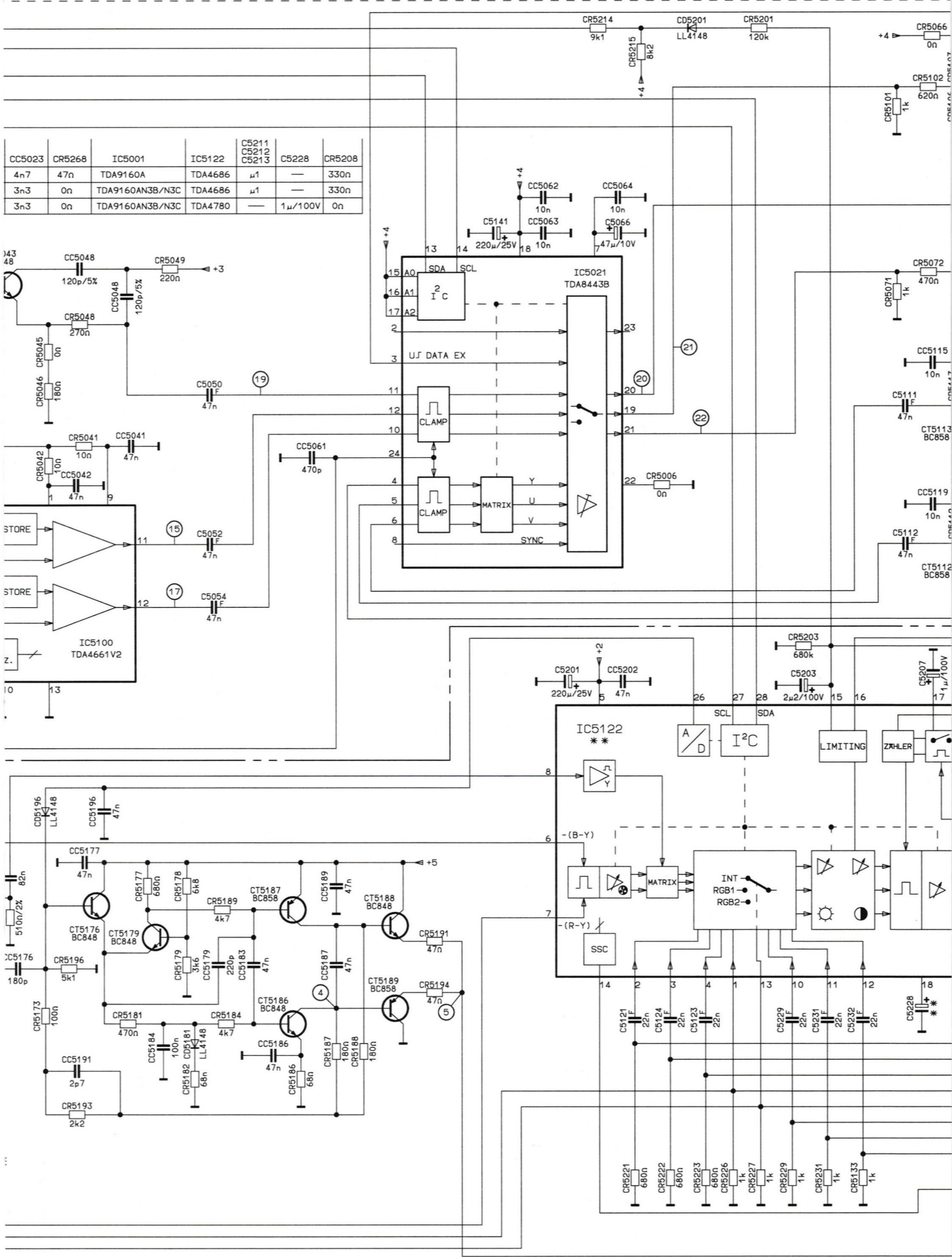


ZF-VERSTAERKER / MULTI 29504-162.43
-162.46

ÄNDERUNGEN VORBEHALTEN
SUBJECT TO ALTERATIONS
SANS RESERVE DE MODIFICATION
CON RISERVA DI MODIFICHE
RESERV EL DERECH. MODIFIC.

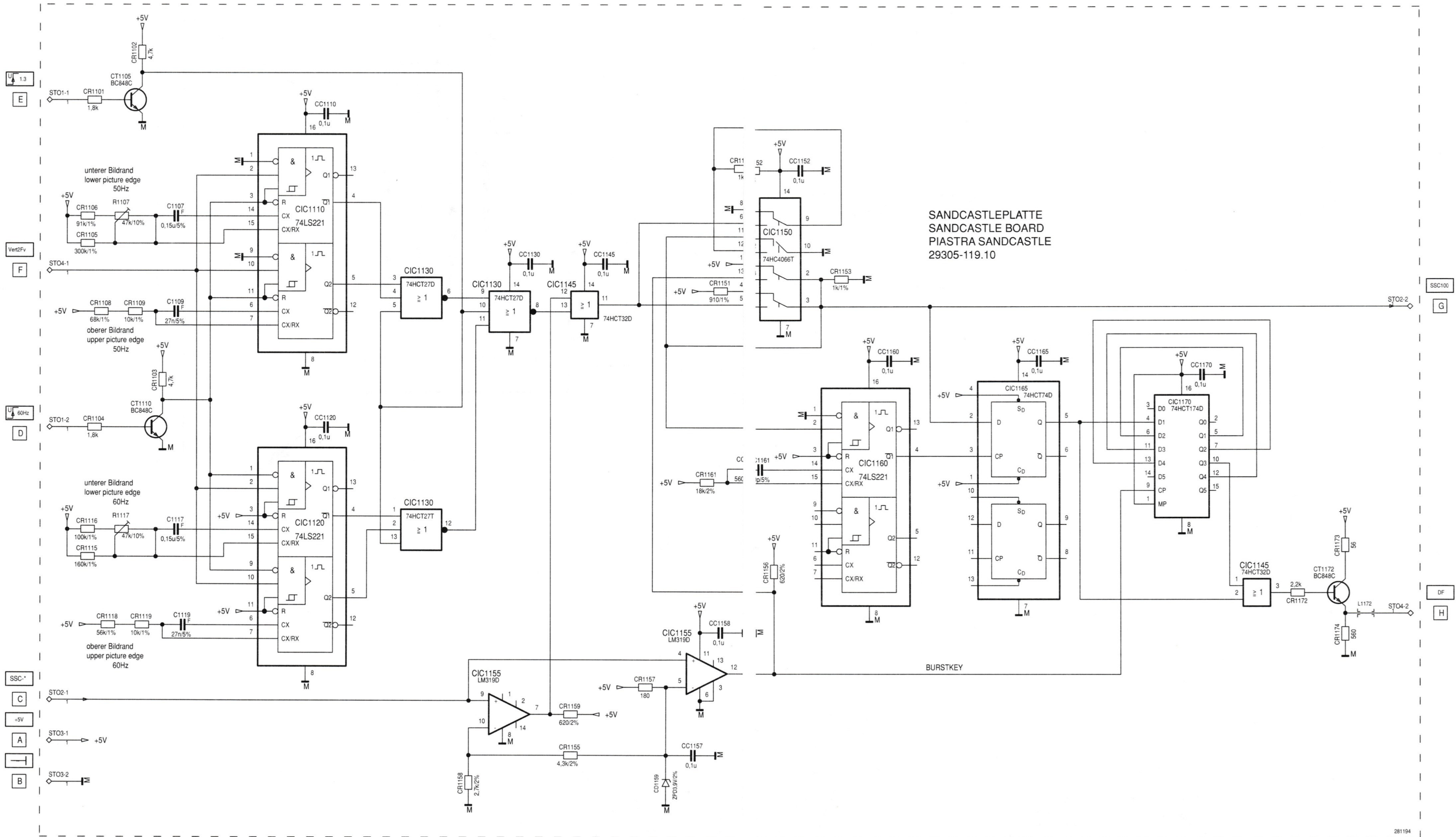


CC5023	CR5268	IC5001	IC5122	CS211	CS212	CS213	C5228	CR5208
4n7	47n	TDA9160A	TDA4686	μ1	—	—	330n	—
3n3	0n	TDA9160AN3B/N3C	TDA4686	μ1	—	—	330n	—
3n3	0n	TDA9160AN3B/N3C	TDA4780	—	1μ/100V	—	0n	—



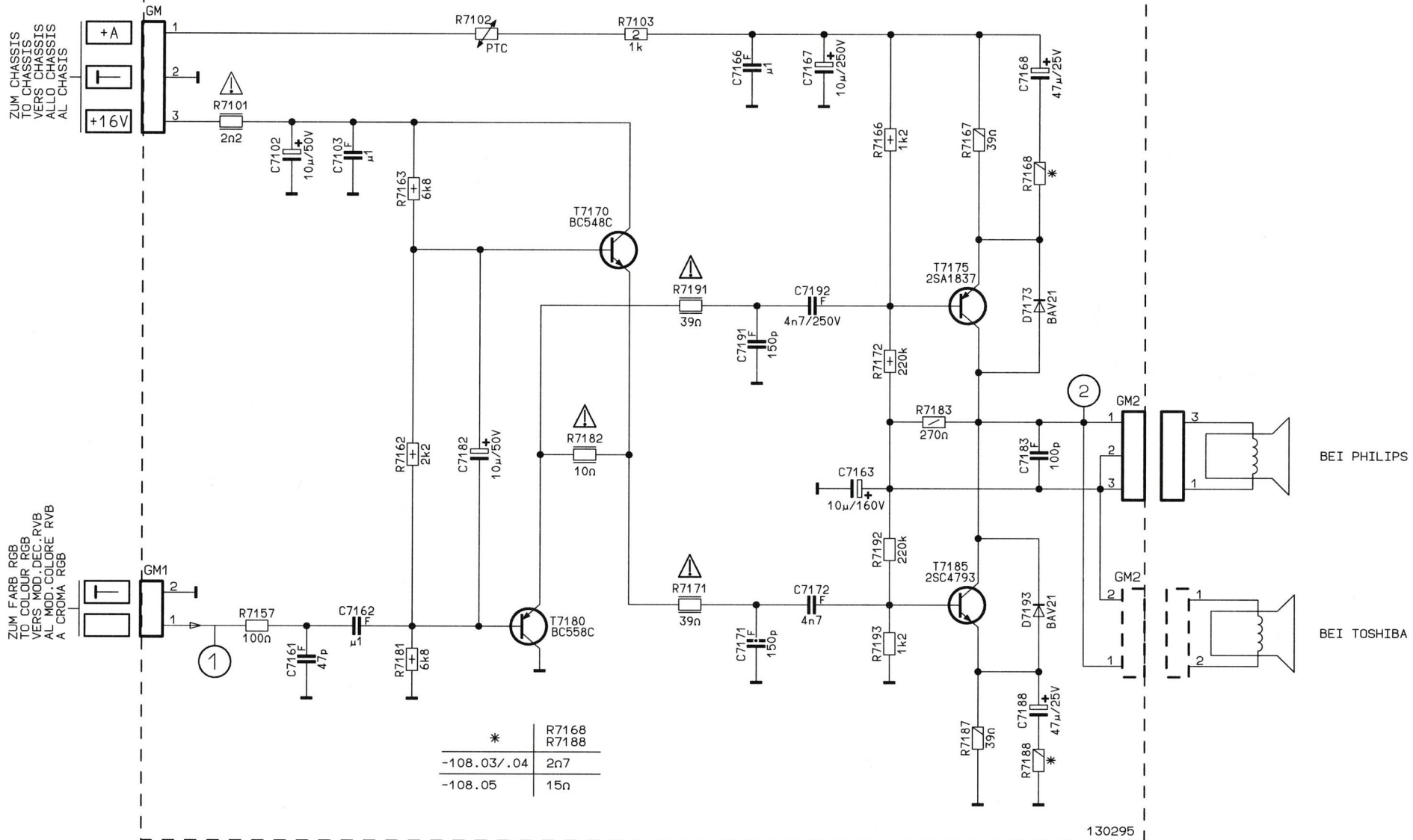
VIDEO-BAUSTEIN 29504-165.63
 VIDEO MODULE -165.66
 MODULE VIDEO -165.69
 MODULO DE VIDEO

Sandcastleplatte / Sandcastle Board / Piastra Sandcastle



Geschwindigkeitsmodulator-Platte
Velocity Modulation Board
Piastra Modulatore di Velocita

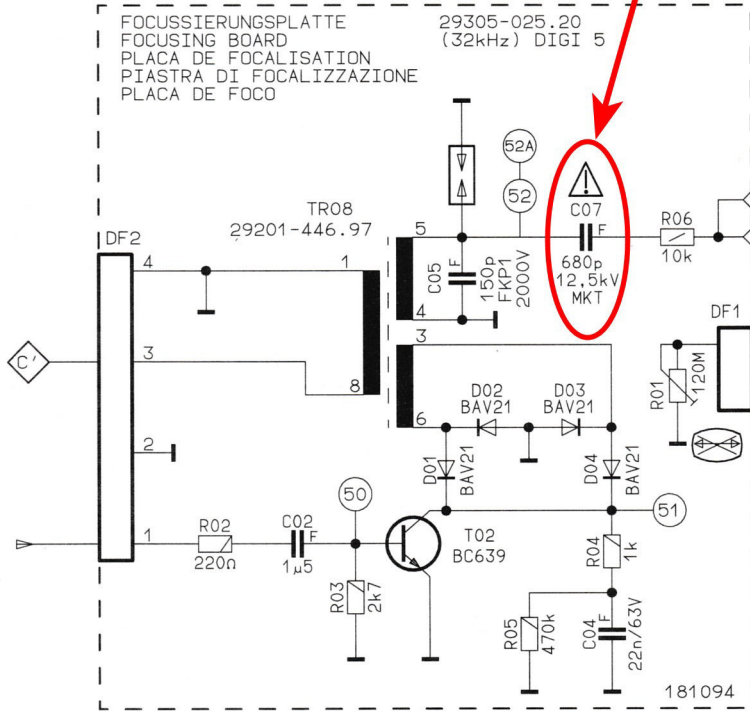
GESCHWINDIGKEITSMODULATOR-PLATTE 29305-108.03
VELOCITY MODULATION BOARD -108.04
PLAQUE REGULATEUR DE VITESSE -108.05
PIASTRA MODULATORE DI VELOCITÀ
PLACA MODULADOR DE VELOCIDAD



130295

Fokussierungsplatte / Focusing Board / Piastra di Focalizzazione

Si image floue, retirer le condensateur C07 et le remplacer par deux 1.5N 6KV en série. Ces deux condos seront souvent à changer...

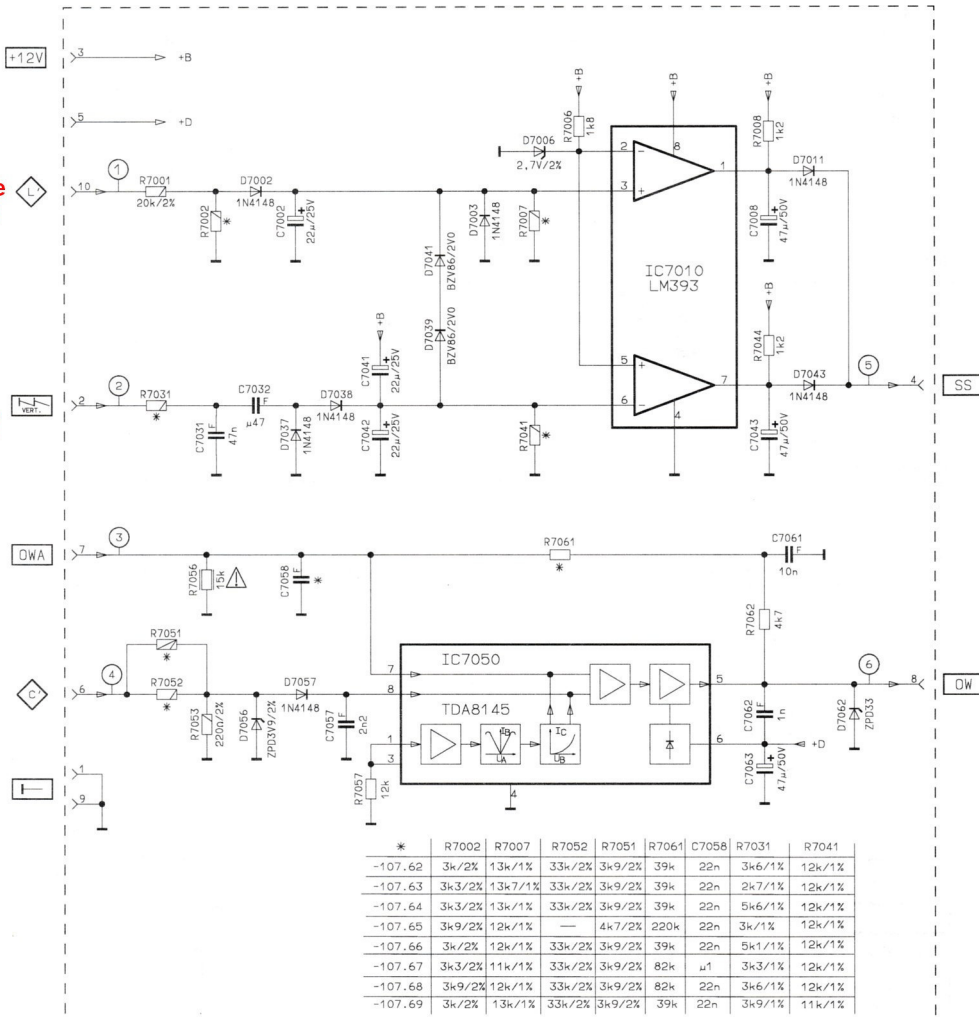


Ost/West-Baustein / East/West Module / Modulo Est/Ovest

100Vcc. Si défaut ligne > à 100Vcc

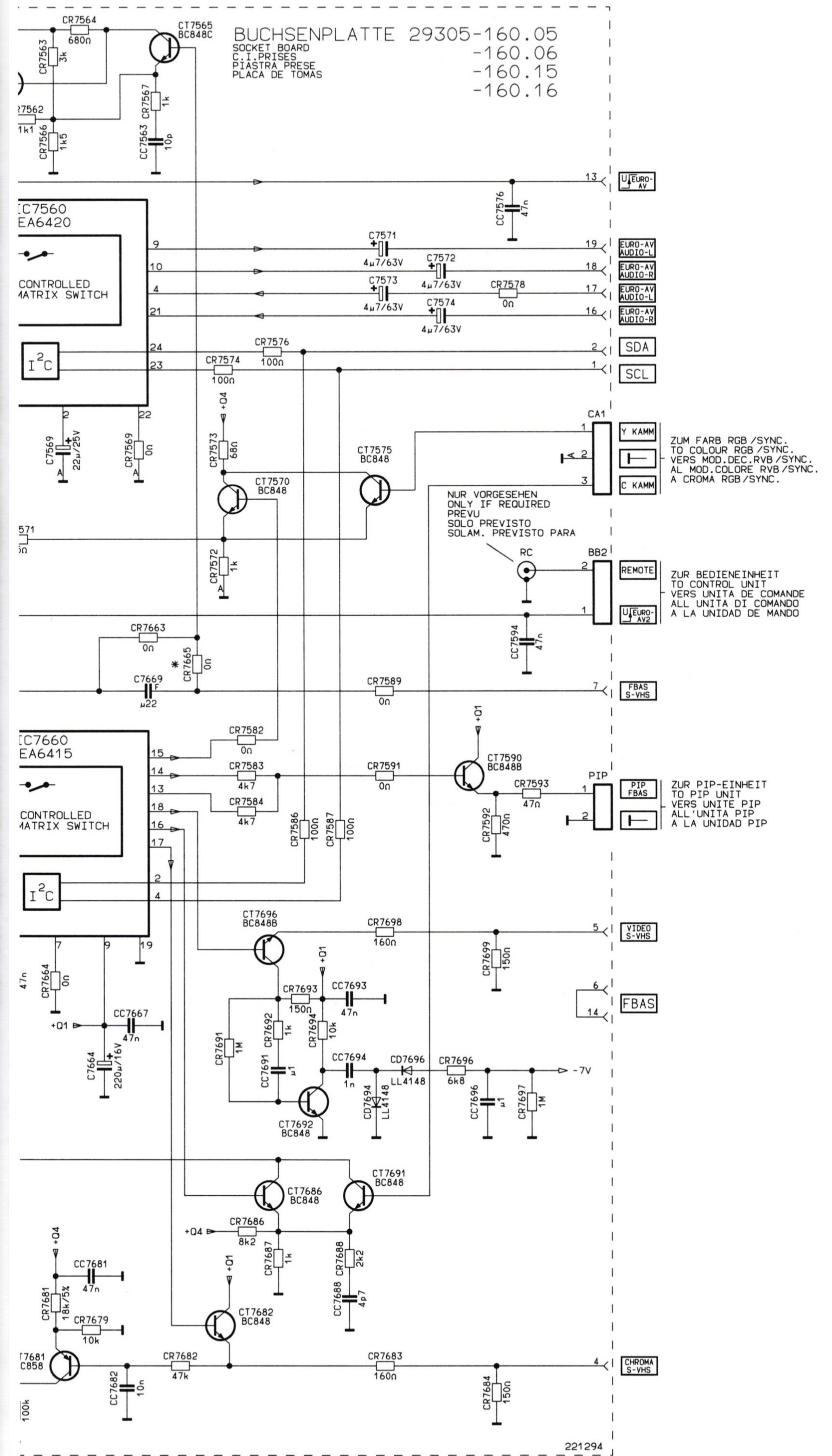
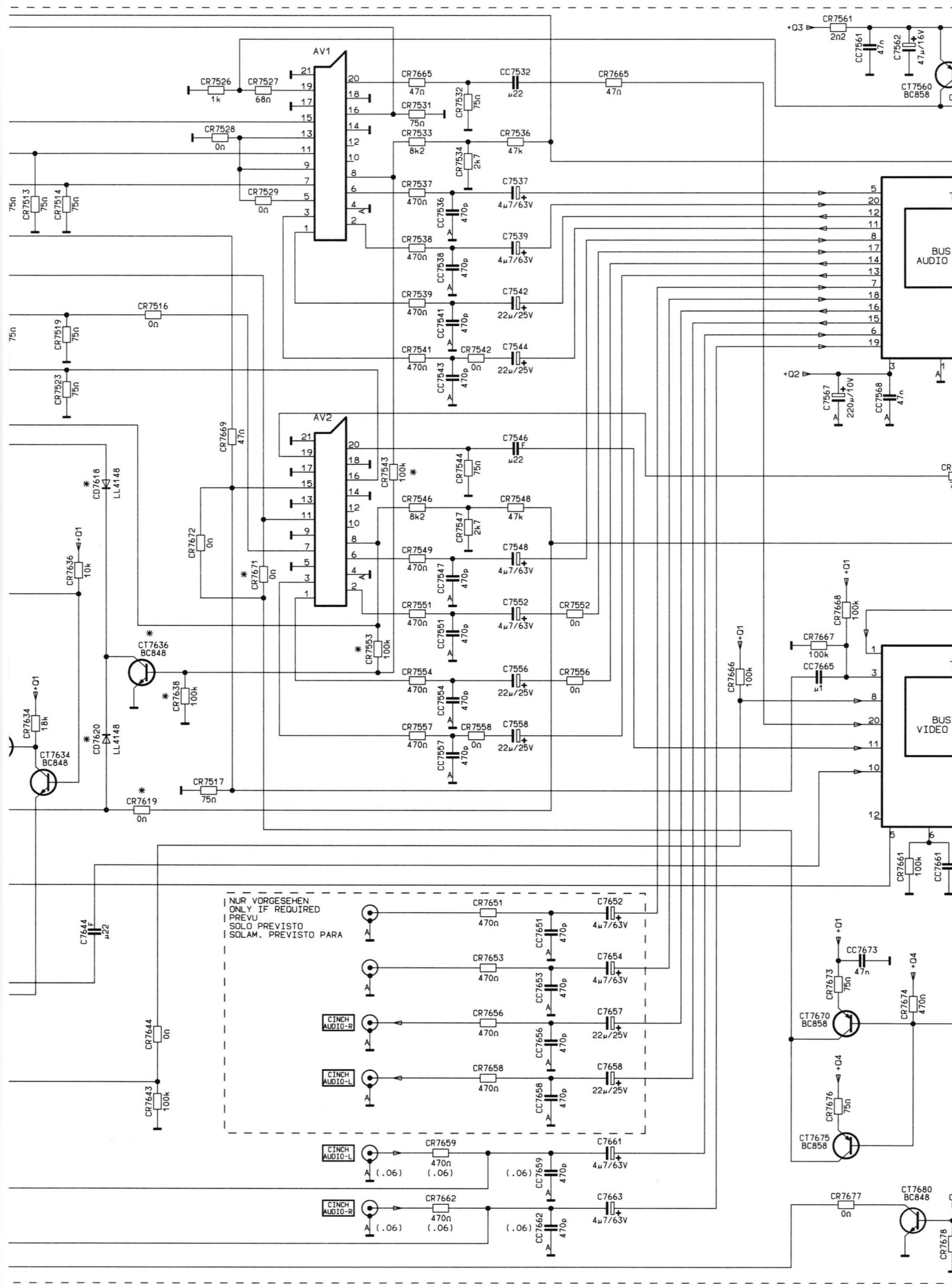
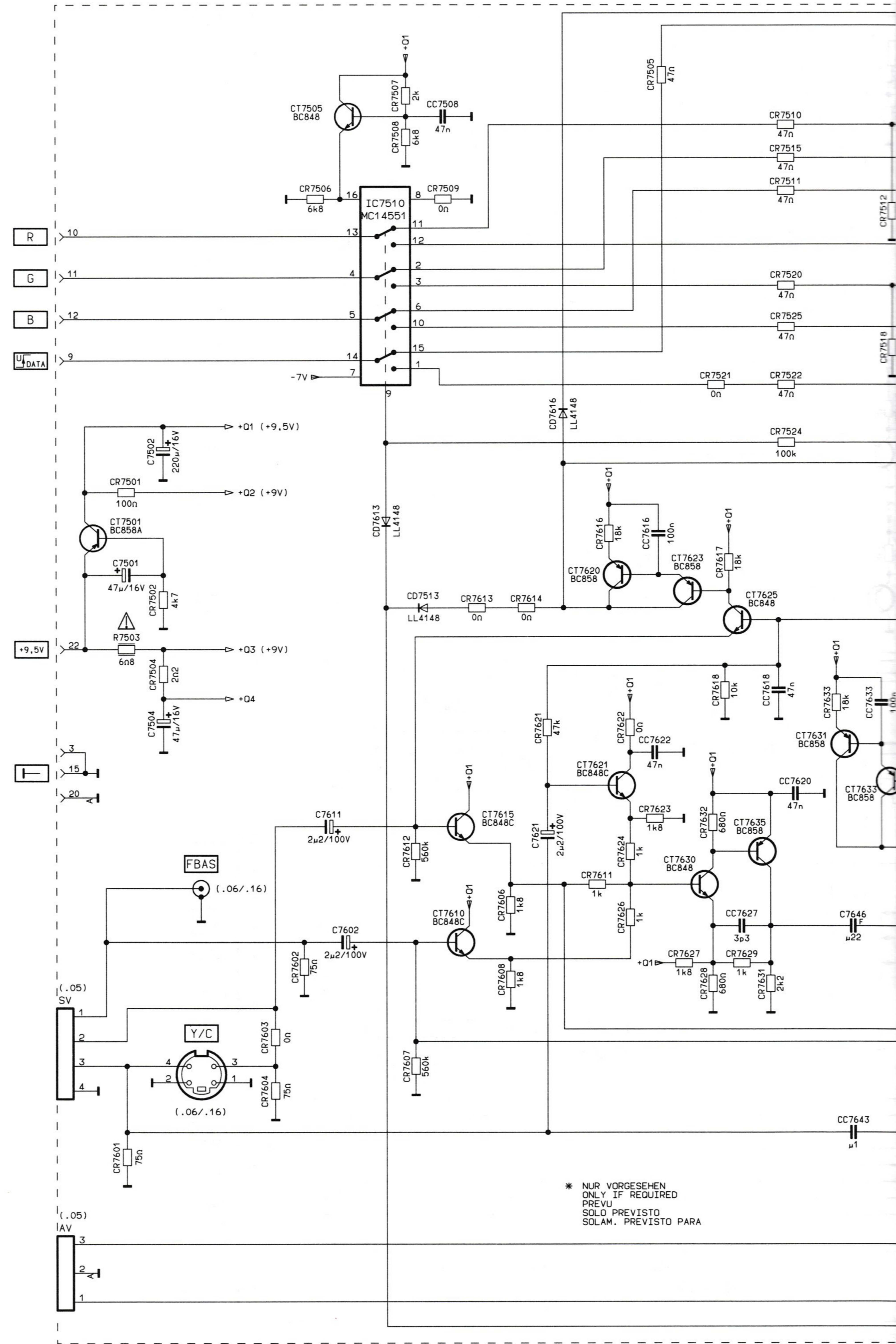
2Vcc. Si défaut trame = 0V

Sécurité ligne + trame > à 4.5V



*	R7002	R7007	R7052	R7051	R7061	C7058	R7031	R7041
-107.62	3k/2X	13k/1X	33k/2X	3k9/2X	39k	22n	3k6/1X	12k/1X
-107.63	3k3/2X	13k7/1X	33k/2X	3k9/2X	39k	22n	2k7/1X	12k/1X
-107.64	3k3/2X	13k/1X	33k/2X	3k9/2X	39k	22n	5k6/1X	12k/1X
-107.65	3k9/2X	12k/1X	—	4k7/2X	220k	22n	3k/1X	12k/1X
-107.66	3k/2X	12k/1X	33k/2X	3k9/2X	39k	22n	5k1/1X	12k/1X
-107.67	3k3/2X	11k/1X	33k/2X	3k9/2X	82k	μ1	3k3/1X	12k/1X
-107.68	3k9/2X	12k/1X	33k/2X	3k9/2X	82k	22n	3k6/1X	12k/1X
-107.69	3k/2X	13k/1X	33k/2X	3k9/2X	39k	22n	3k9/1X	11k/1X

- Ost/West-Baust. 29504-107.62 TOSHIBA 82cm/16.9(DIGI 5)
 East/West Module -107.63 PHILIPS 55cm/63cm(BLS)
 East/West Module -107.64 TOSHIBA 63cm/72cm
 Modulo Est/Ovest -107.65 PHILIPS 63cm(SF)/72cm
 Modulo Est/Ovest -107.66 TOSHIBA 82cm
 Modulo Est/Ovest -107.67 TOSHIBA 95cm
 Modulo Est/Ovest -107.68 PHILIPS 70cm
 Modulo Est/Ovest -107.69 TOSHIBA 70cm/16.9(DIGI 5)



BUCHSENPLATTE 29305-160.05
-160.06
-160.15
-160.16

ZUM FARB RGB / SYNC.
TO COLOUR RGB / SYNC.
VERS MOD. DEC. RVB / SYNC.
AL MOD. COLORE RVB / SYNC.
A CROMA RGB / SYNC.

NUR VORGESEHEN
ONLY IF REQUIRED
PREVU
SOLO PREVISTO
SOLAM. PREVISTO PARA

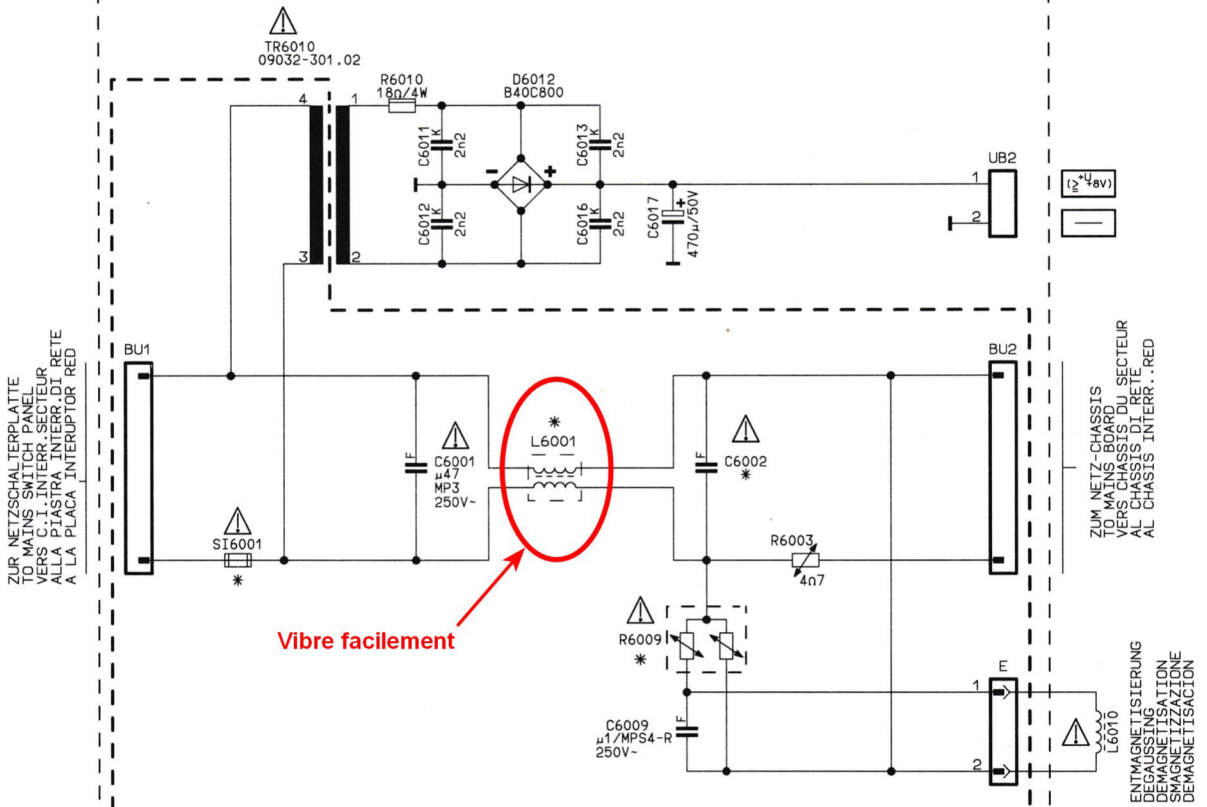
ZUR BEDIENEINHEIT
TO CONTROL UNIT
VERS UNITA DE COMANDE
ALL UNITA DI COMANDE
A LA UNIDAD DE MANDO

ZUR PIP-EINHEIT
TO PIP UNIT
VERS UNITE PIP
ALL UNITA PIP
A LA UNIDAD PIP

Entstörplatte Interference Elimination Board Piastra Antidisturbi

ENTSTOERPLATTE 29304-050.63
 INTERFERENCE ELIMINATION BOARD -050.64
 C.I. ANTIPARASITAGE -050.68
 PIASTRA ANTIDISTURBI -050.69
 PLACA ANTIPARASITA -050.70
 -050.71
 -050.97
 -050.99

NETZENTSTOEREINHEIT 29305-165.93
 INTERFERENCE ELIMINATION UNIT
 UNITE ANTIPARASITAGE
 UNITA' ANTIDISTURBI
 UNIDAD ANTIPARASITA



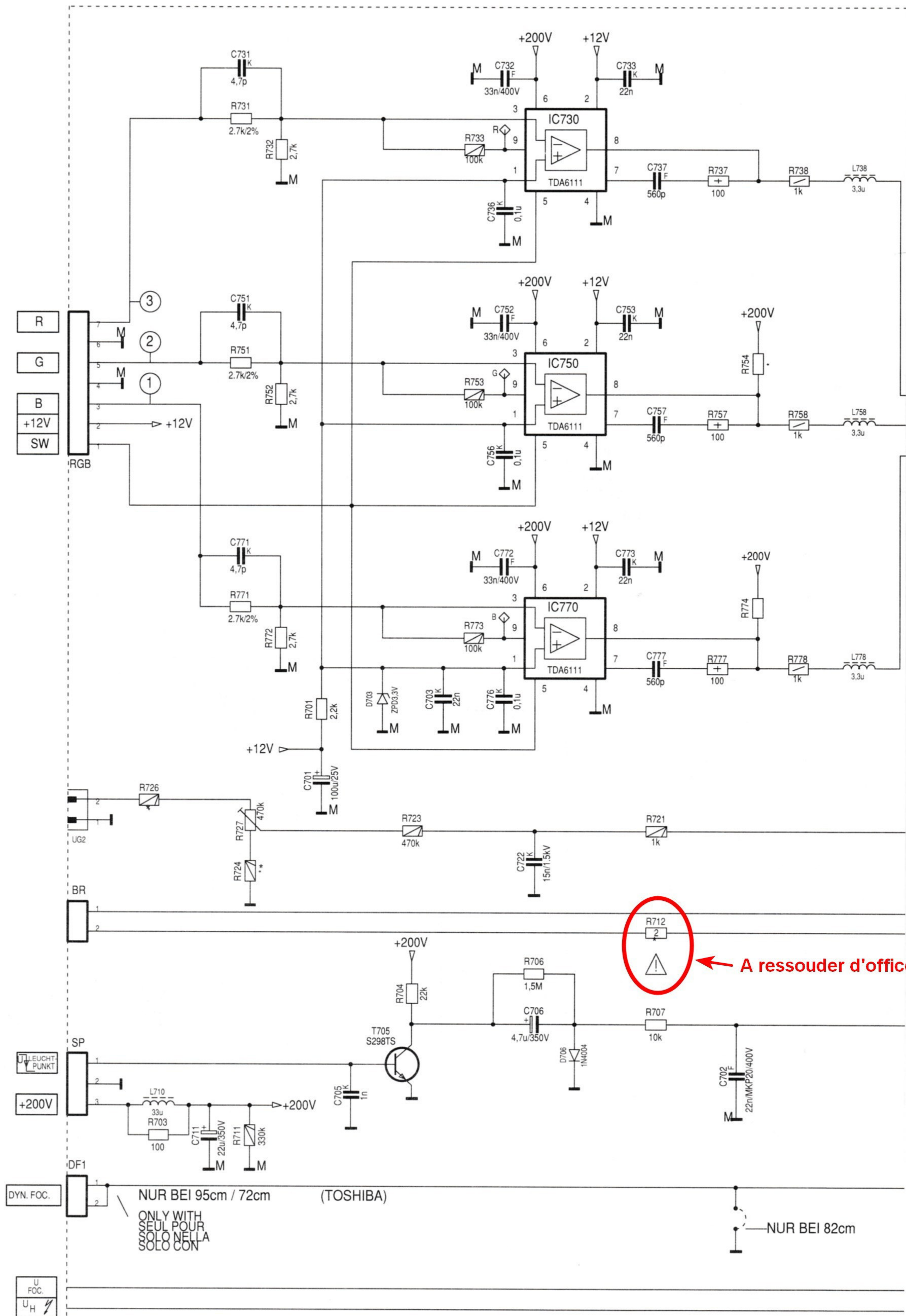
*	SI6001	L6001	C 6002	R 6009
-050.63/-165.93	T3,15AL	2x33m 29500-809.97	μ22/MP3/250V~	8311-200-010
-050.64	T3,15AL	2x27m 29500-820.97	μ22/MP3/250V~	8311-200-010
-050.68	T3,15AH	2x33m 29500-809.97	μ33/MP-KT/250V~	8311-200-010
-050.69/.97	T3,15AH	2x27m 29500-820.97	μ33/MP-KT/250V~	8311-200-010
-050.70	T3,15AH	2x27m 29500-820.97	μ33/MP-KT/250V~	8311-200-012
-050.71/.99	T3,15AL	2x33m 29500-820.97	μ22/MP3/250V~	8311-200-012

NICHT NETZGETR. SCHALTUNGSTEIL
 CIRCUIT NOT MAINS ISOLATED
 CIRCUIT NON ISOLE DU SECTEUR
 CIRCUITO NON SEPARATO DALLA RETE
 ATENCION! SECTOR DE COM. NO SEP. DE LA RED

080395

für M70-781
 DRUCK -29304-540.63

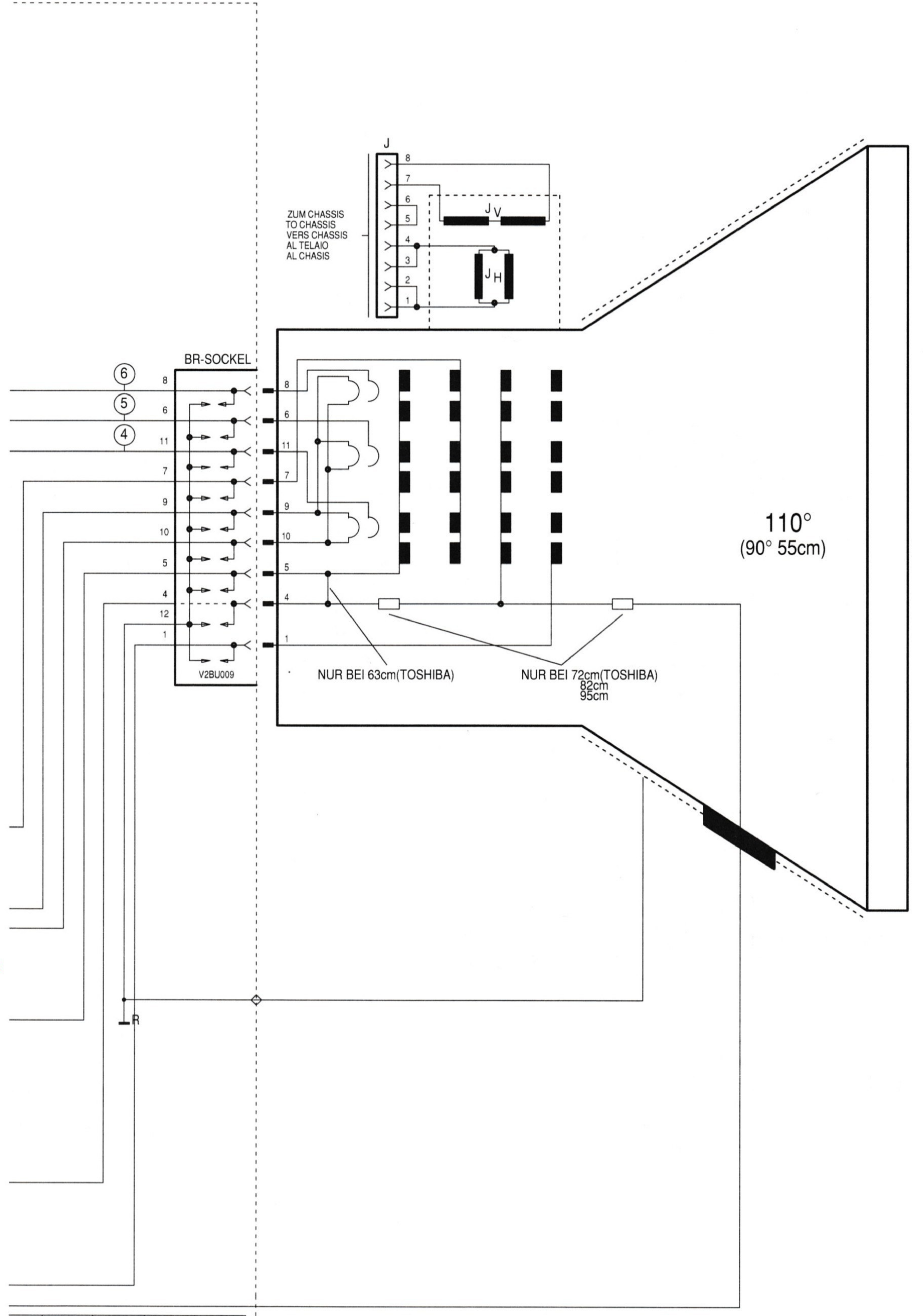
Bildrohrplatte / CRT Panel / Piastra Cinescopio



BILDROHRPLATTE	29305 - 022.31 (72cm TOSHIBA)
CRT PANEL	29305 - 022.34 (82cm)
C.T. TUBE CATHOD.	29305 - 022.35 (95cm)
PIASTRA CINESC.	29305 - 022.36 (70cm/82cm TOSHIBA)
PLACA-ZOCALO TRC	29305 - 022.37 (70cm/72cm PHILIPS)
	29305 - 022.38 (63cm TOSHIBA)
	29305 - 022.39 (63cm PHILIPS)
	29305 - 022.89 (55cm DIGI 5)

AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOURS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV. EL DEREC. MODIFIC.

*	R712
-022.34	●
-022.35	3,9/3V
-022.36	3,9/3V
-022.31	●
-022.37	4,7/2V
-022.38	5,6/2V
-022.39	5,1/2V
-022.89	5,6/2V

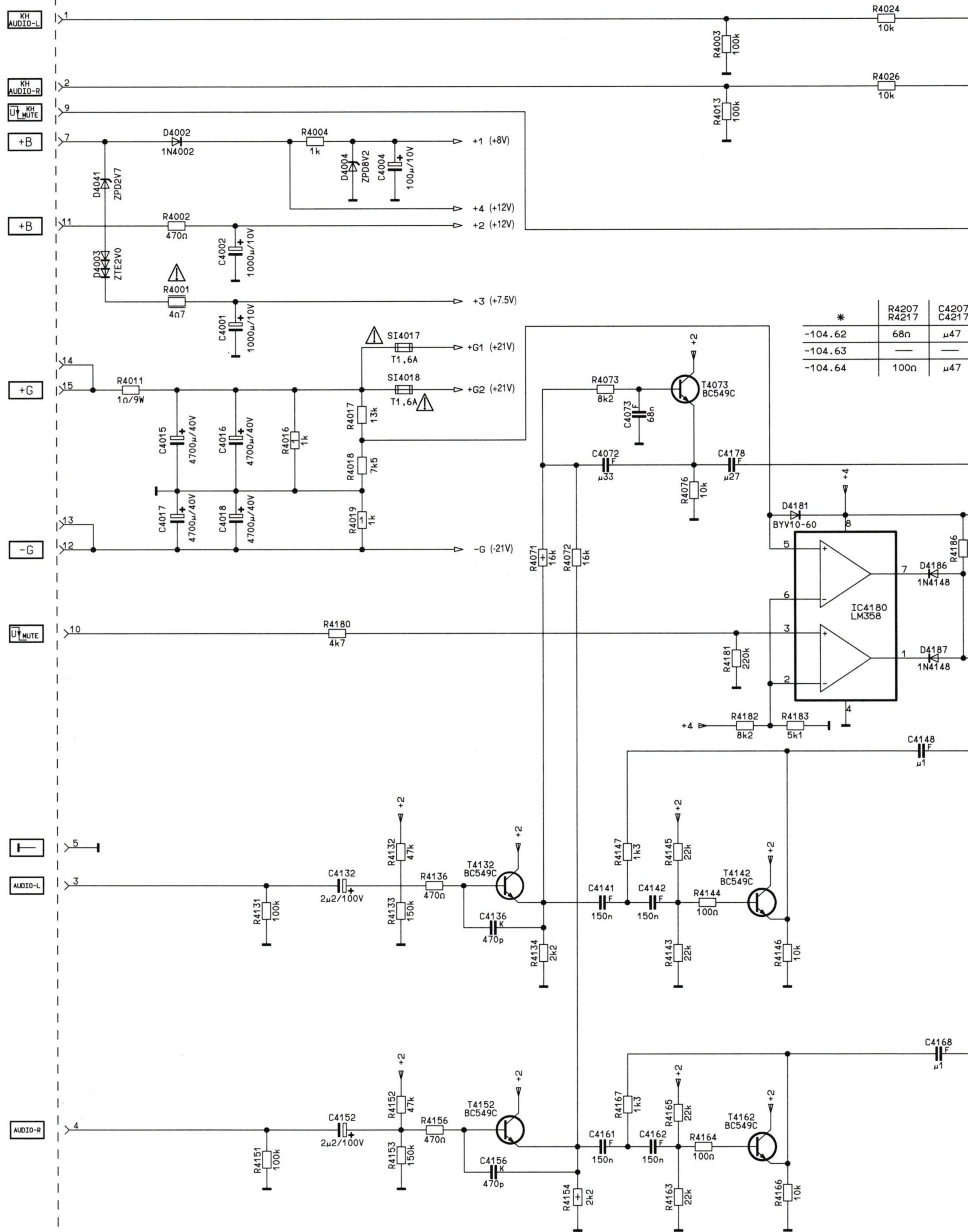


2	R726	R724	R754	R774
●	220k	390k	5,6M	6,8M
/	220k	390k	5,6M	6,8M
/	220k	390k	5,6M	6,8M
●	120k	470k	5,6M	6,8M
/	●	1M	-	10M
/	120k	470k	5,6M	6,8M
/	●	1M	-	10M
/	●	1M	-	10M

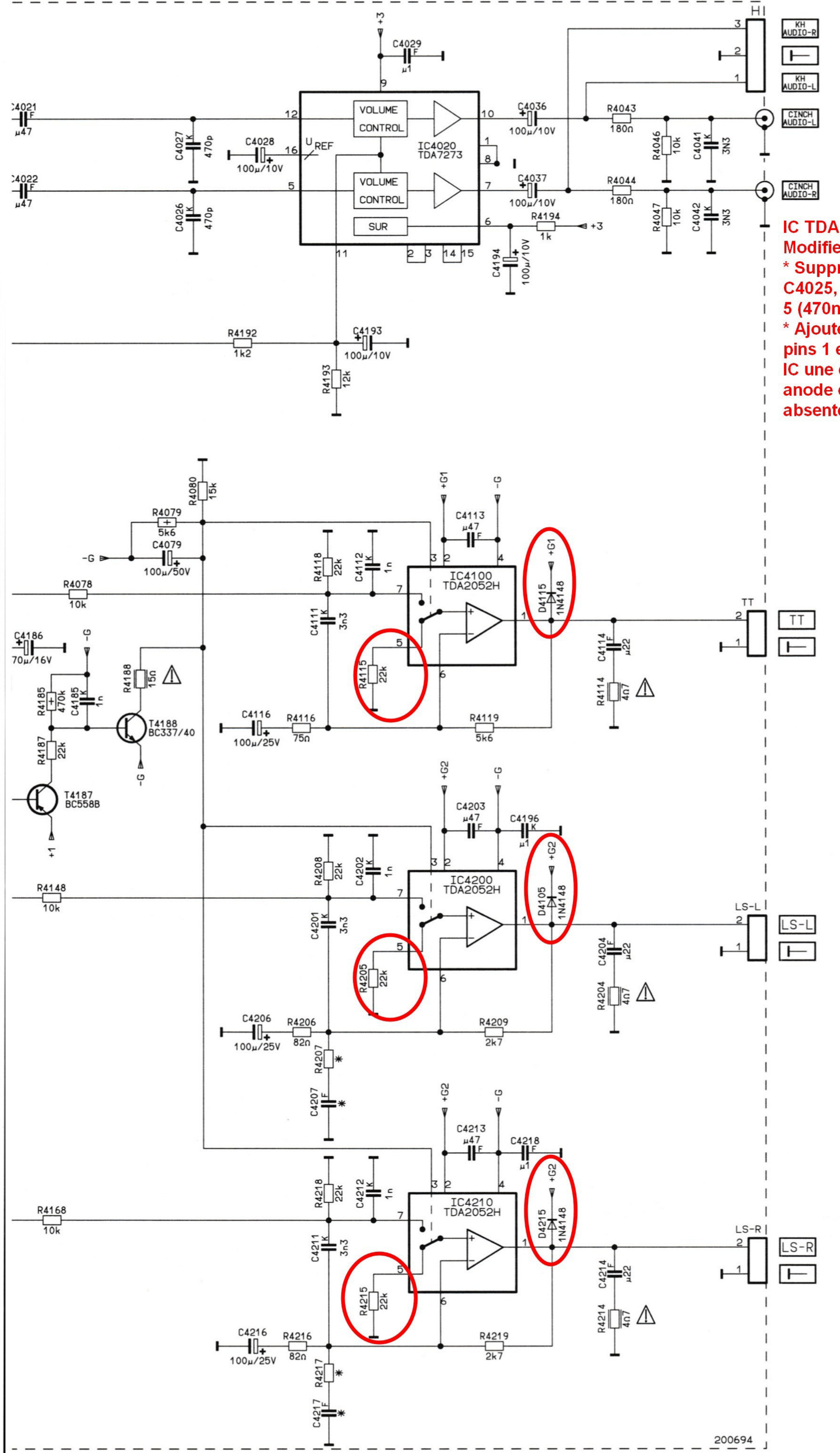
090295

NF-Verstärker / AF Amplifier / Amplificatore BF

NF-VERSTAERKER 29504-104.62
 AF AMPLIFIER -104.63
 BF AMPLI. -104.64

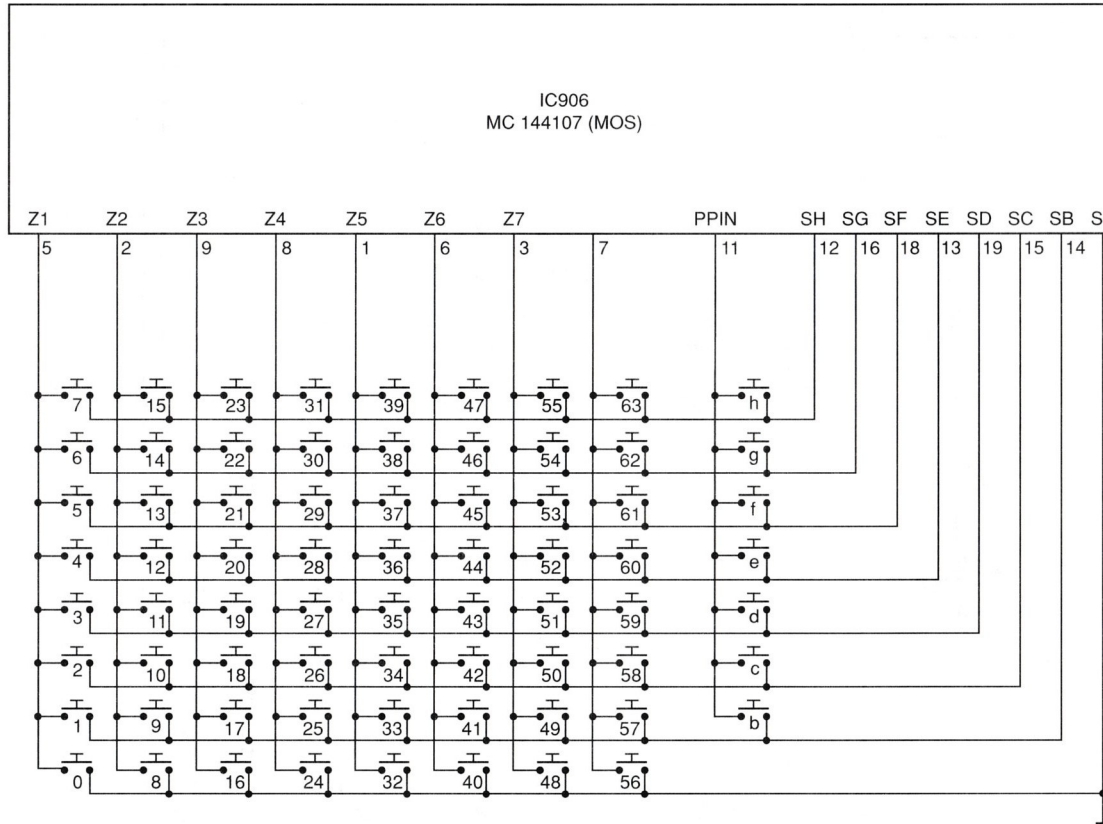


	R4207 R4217	C4207 C4217
* -104.62	68n	μ47
-104.63	—	—
-104.64	100n	μ47

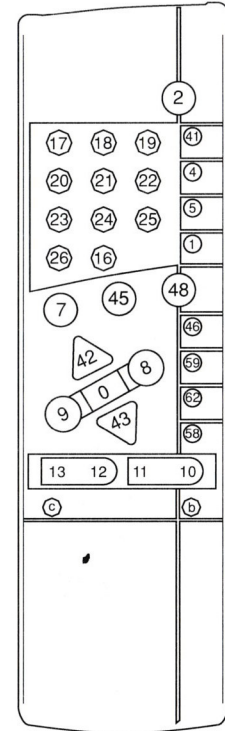
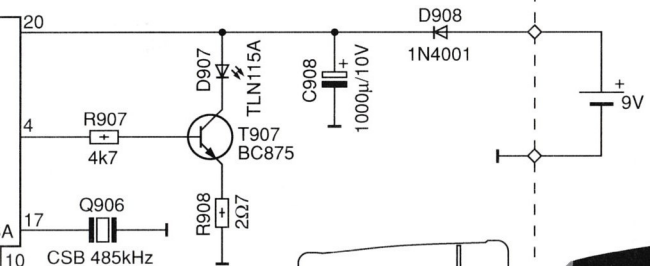


IC TDA 2052H HS
 Modifier tous les IC:
 * Supprimer C4115,
 C4205, C4215 sur pin
 5 (470nF) si présents.
 * Ajouter entre les
 pins 1 et 2 de chaque
 IC une diode 1N4148
 anode coté pin 1 si
 absentes

FERNBEDIENUNG 29622 - 059.01 / 29642 - 059.01
 REMOTE CONTROL
 TELE COMMANDE
 TELECOMANDO
 TELEMANDO



KEYBOARD 29304-779.01
 KEYBOARD
 CLAVIER
 KEYBOARD
 TECLADO



Fernbedienung / Remote Control / Telecomando

Service Adjustments Cont'd.

2.1: Alignment

White balance.

Preparation
 Black Stretch set to "off" (Picture Menu).
 Infocentre → Special Functions → Service →
 > Code 8500 → White Balance.

Alignment Process
 With the + buttons set the VG (amplification green) and VB (amplification blue) values so that the white rectangular area in the middle of the picture becomes achromatic. Store with "OK".

2.2: Alignment

Screen grid voltage.

- Preparation**
- Feed in the test pattern.
 - Switch the TV receiver to AV mode.
 - Adjust the screen brightness with the remote control handset so that the grey areas just become dark.
 - Connect the voltmeter (200 kW series resistance) to the test points R,G,B to determine the test point with the highest voltage level.
 - Oscilloscope: measured test point.

Alignment Process
 With the control SG on the picture tube panel set the voltage to 162.5V±2.5V. If flyback lines are visible on the screen reduce the voltage by 10V approximately.

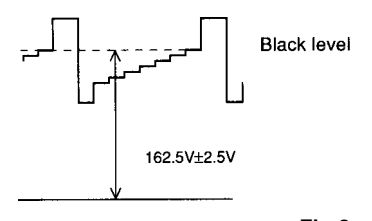
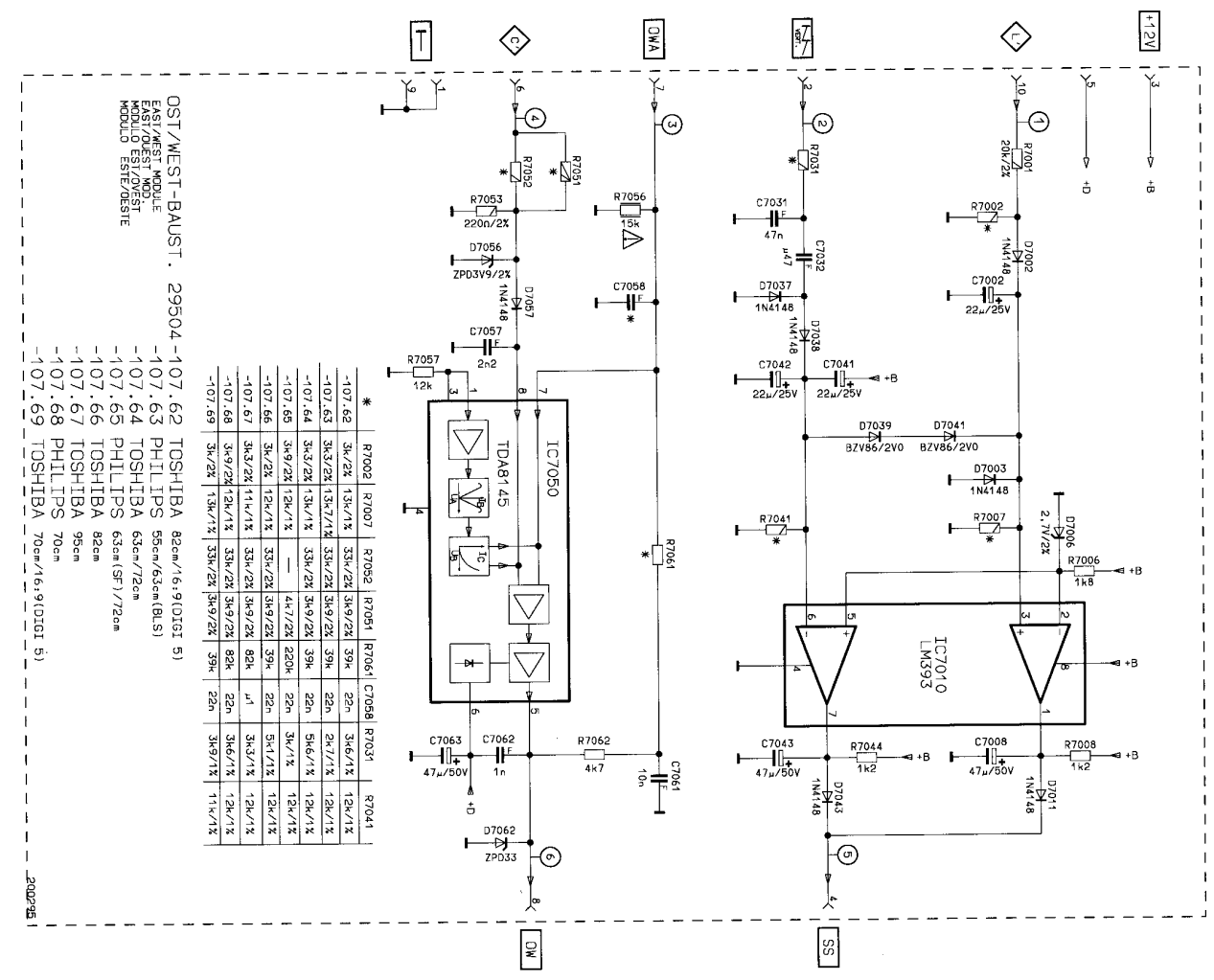
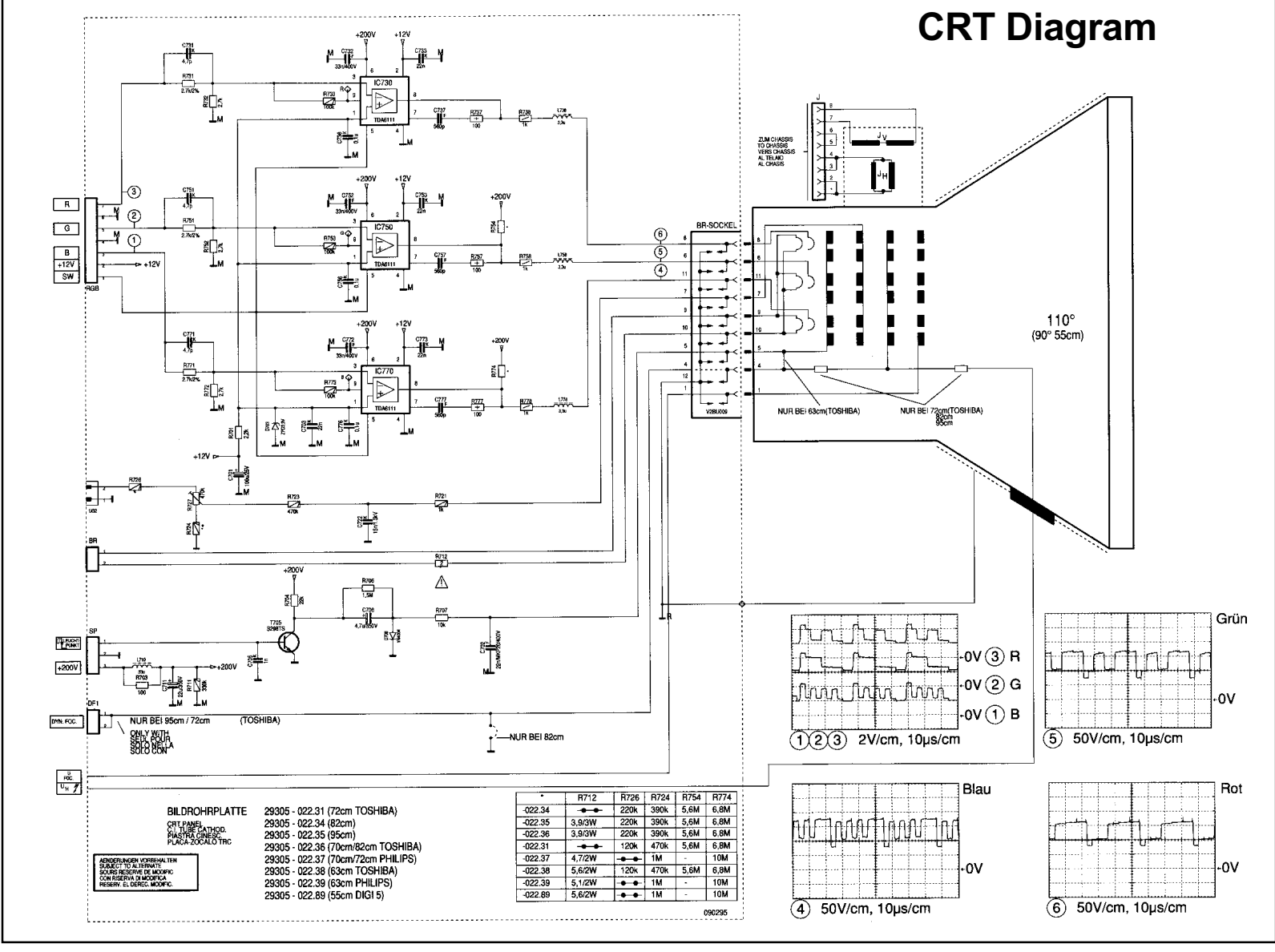


Fig 2.

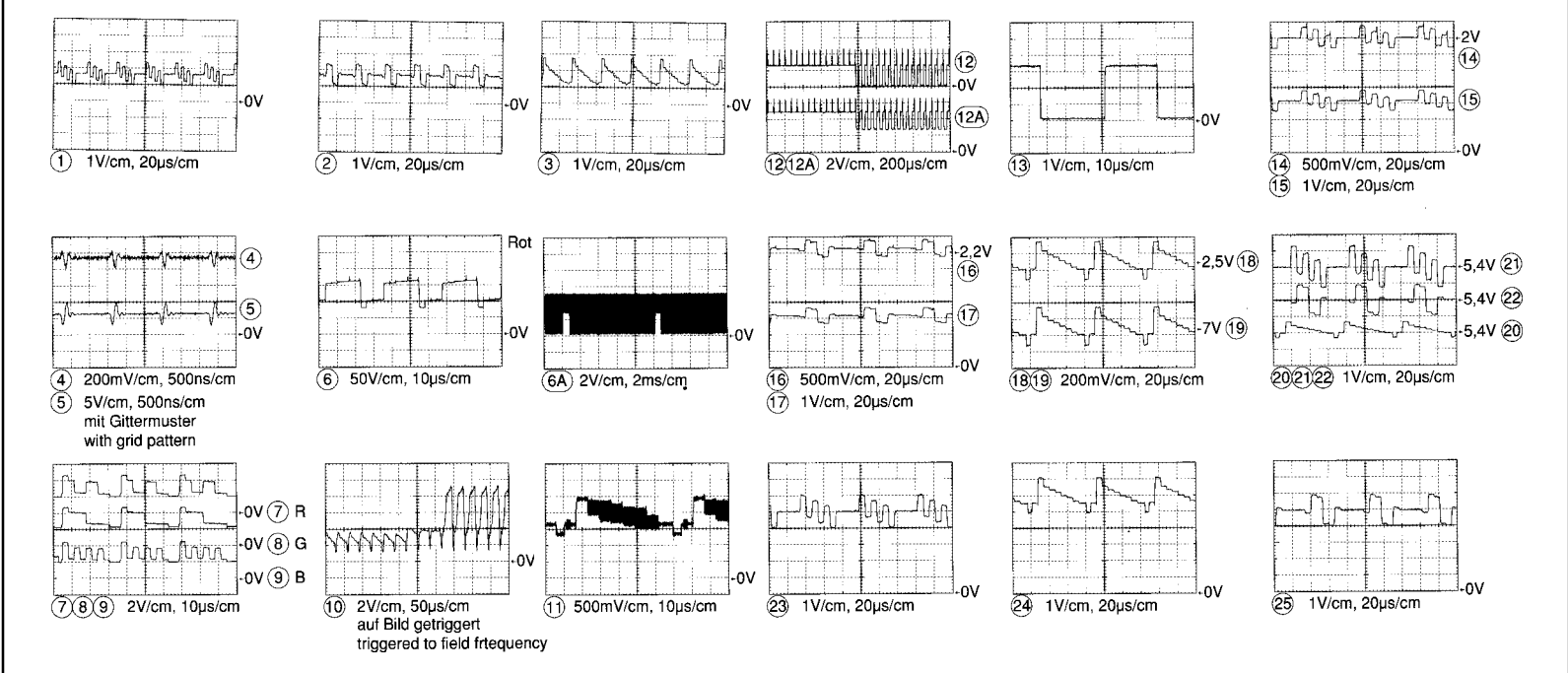
East West Diagram



CRT Diagram

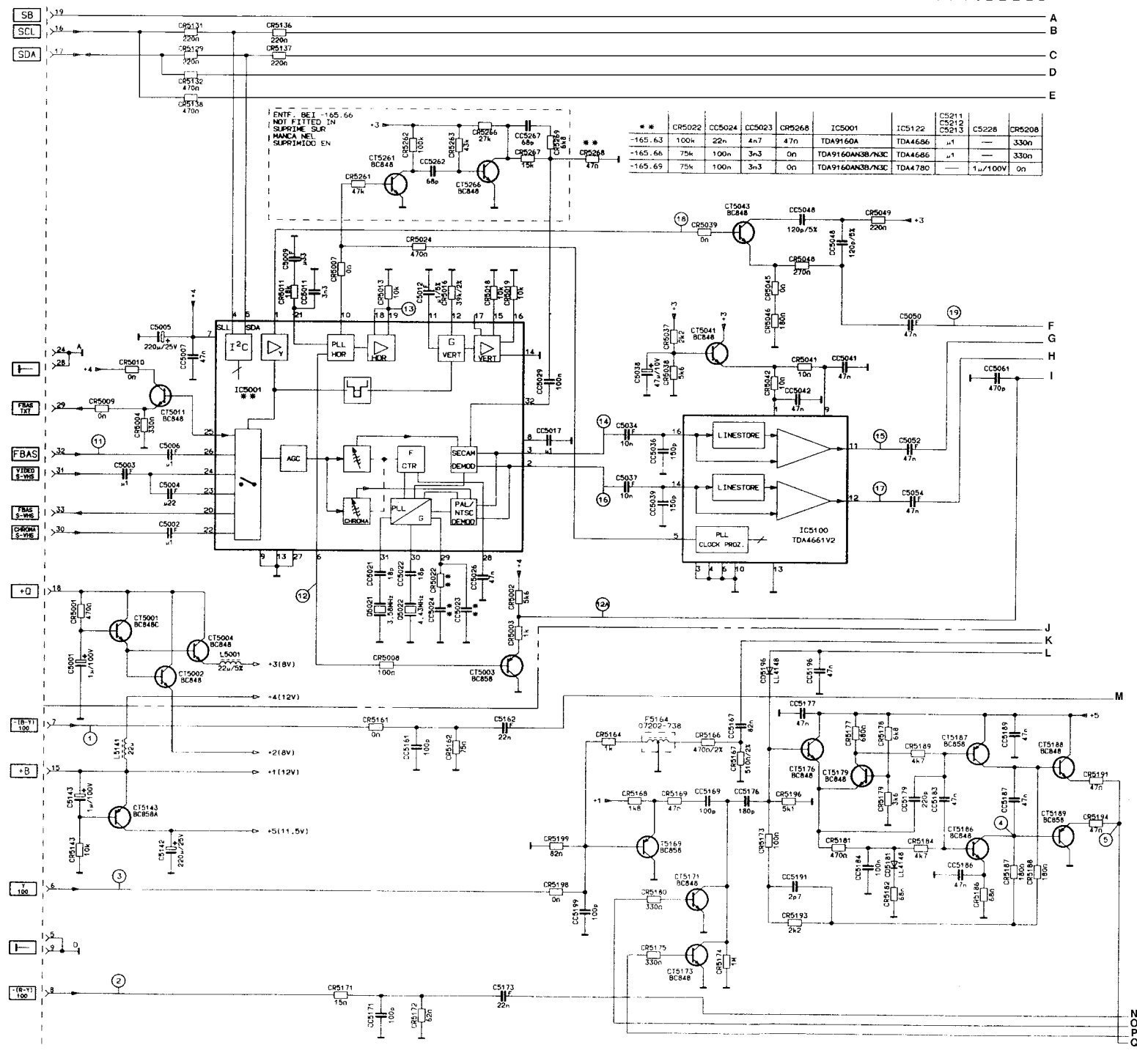
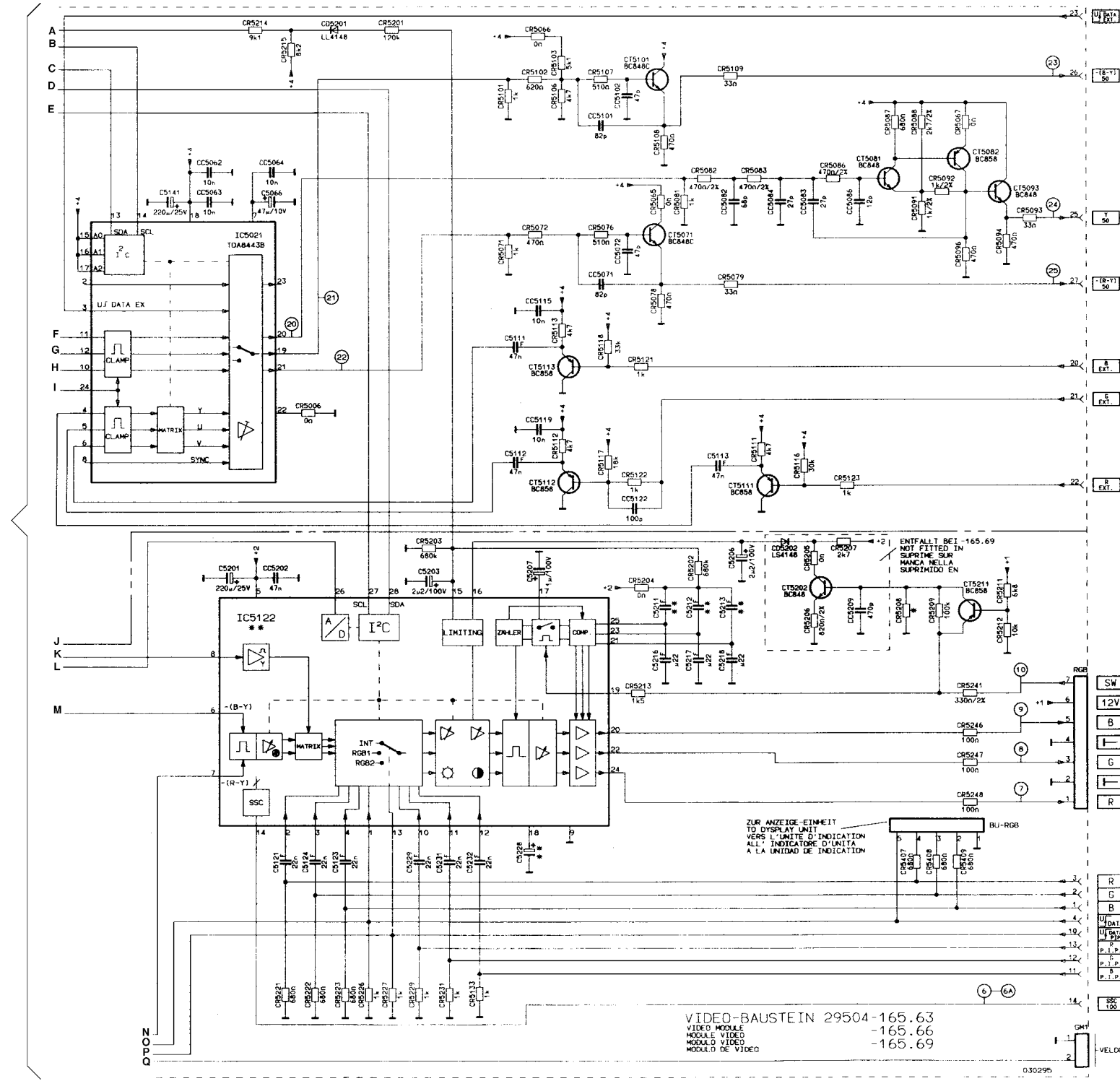


Waveforms - Video Diagram



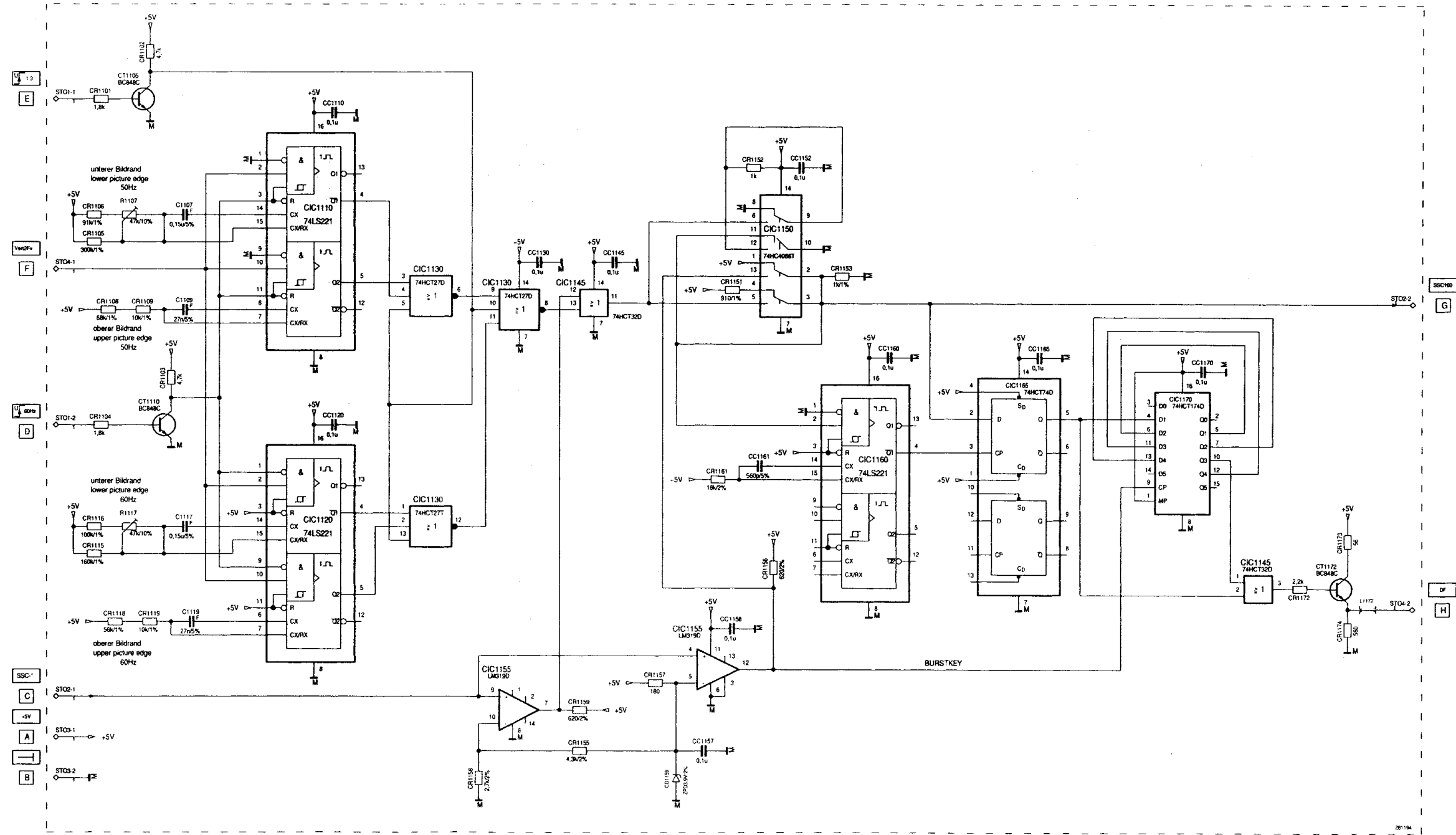
Video Diagram

1

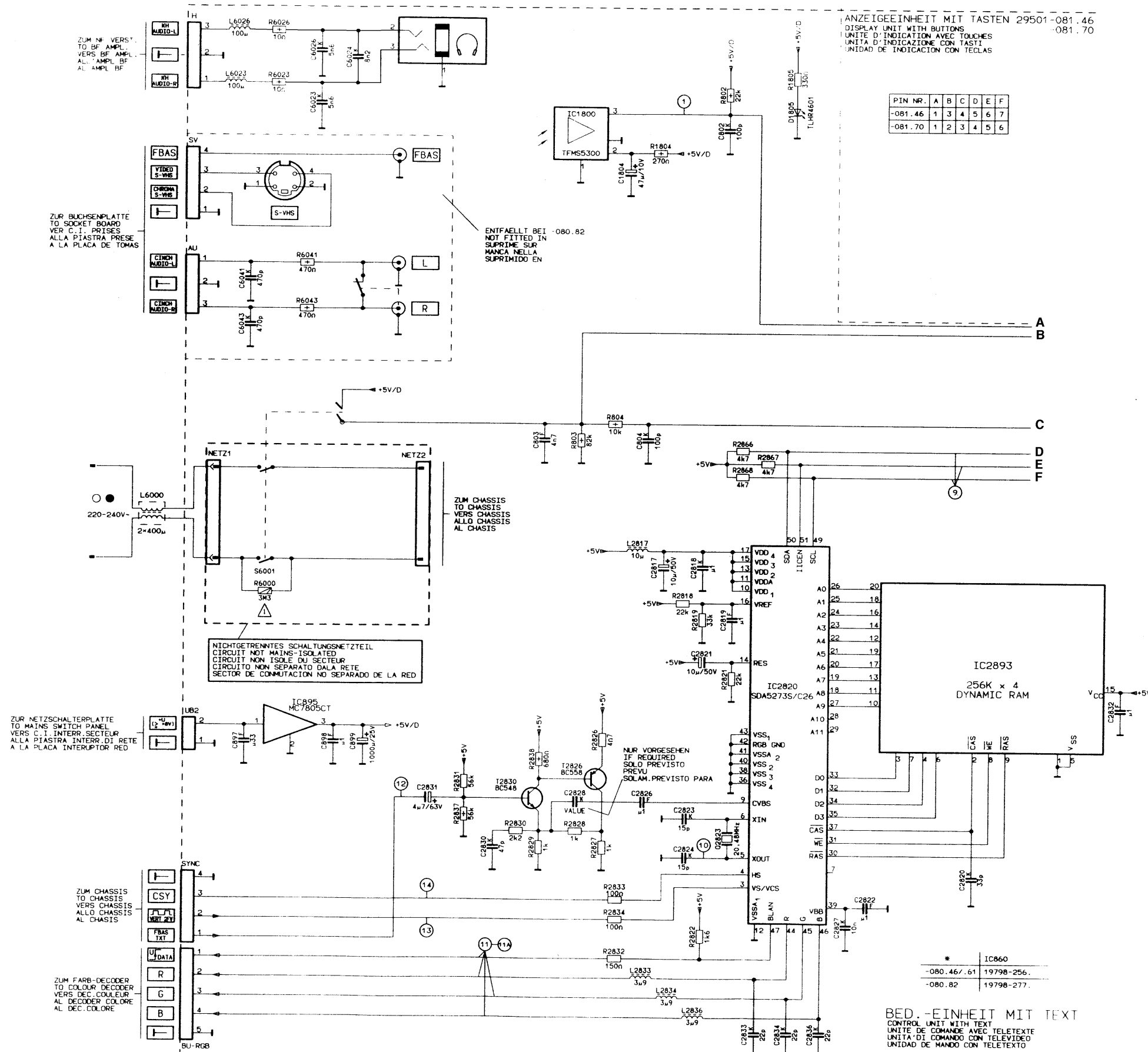


Continued at 1

Sandcastle Diagram



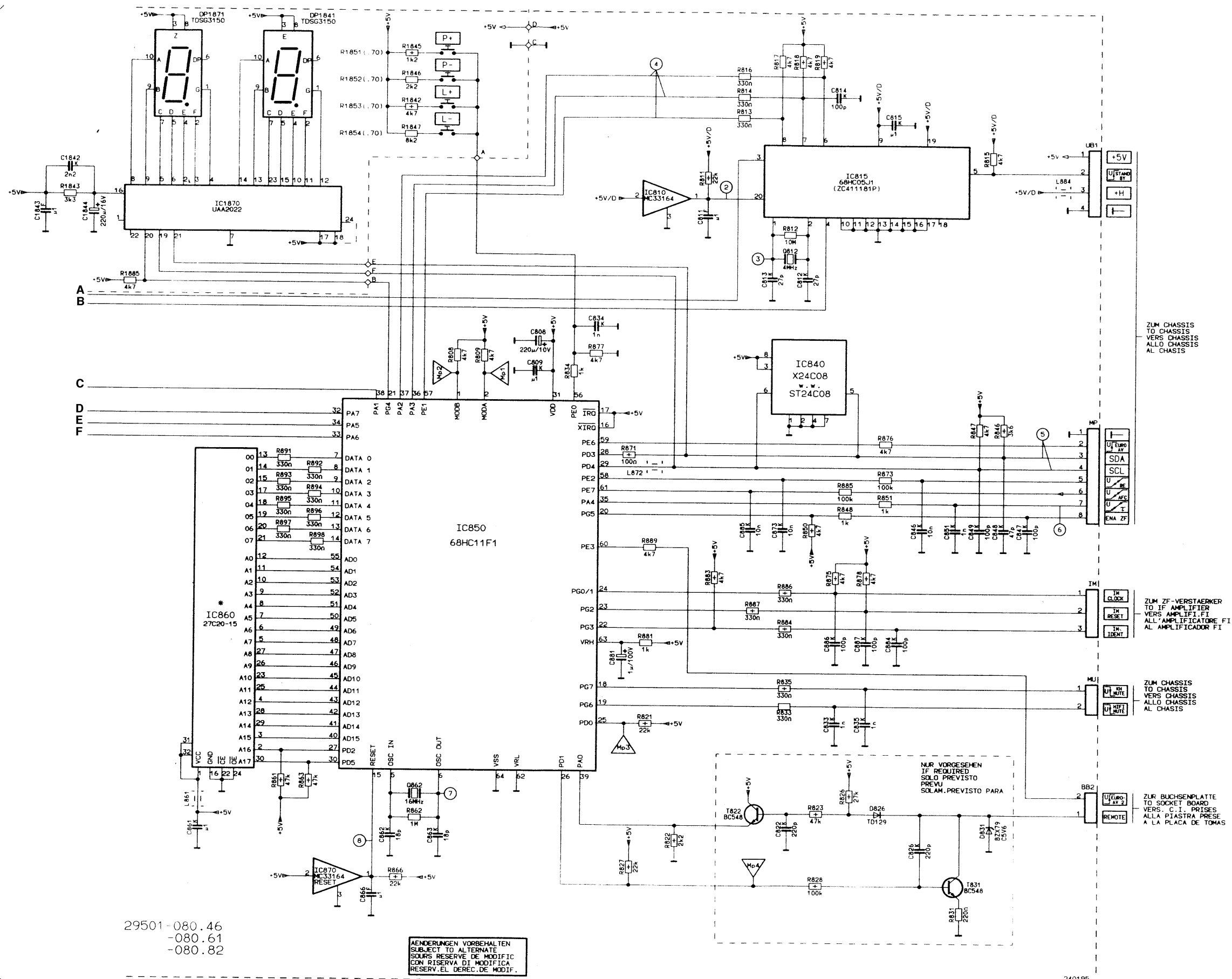
Control Diagram



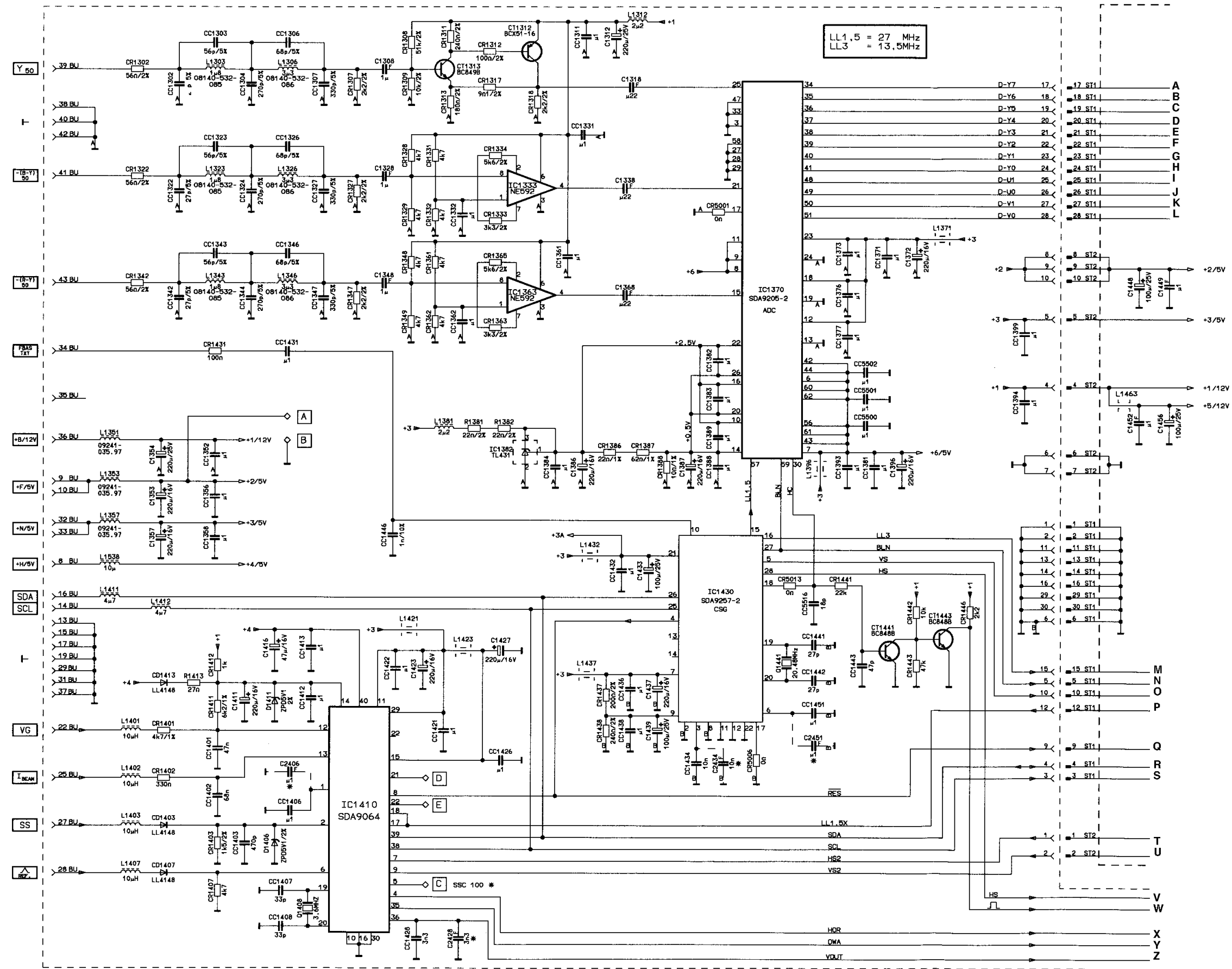
Continued at **2**

Control Diagram Cont'd

2

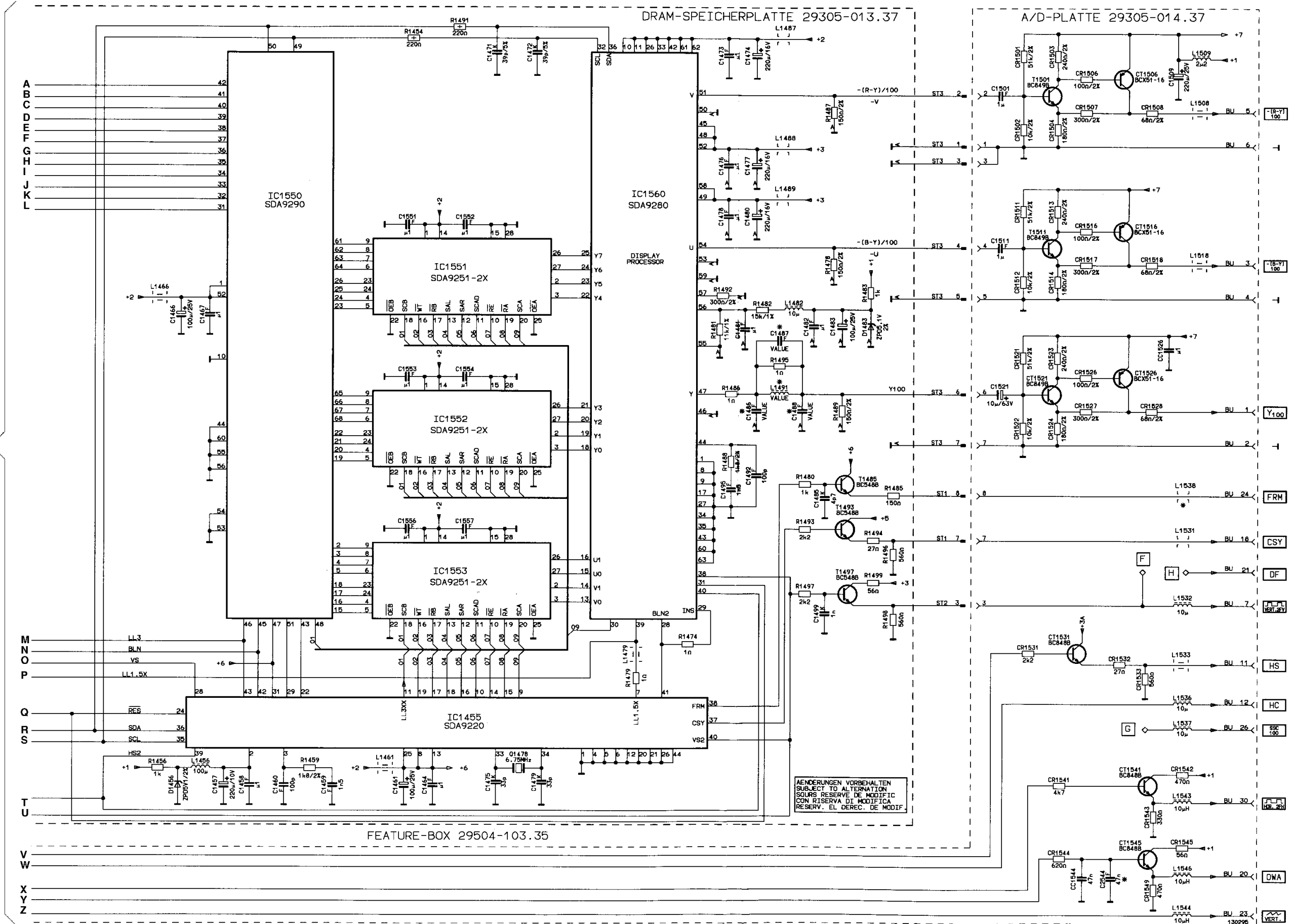


Feature Box Diagram



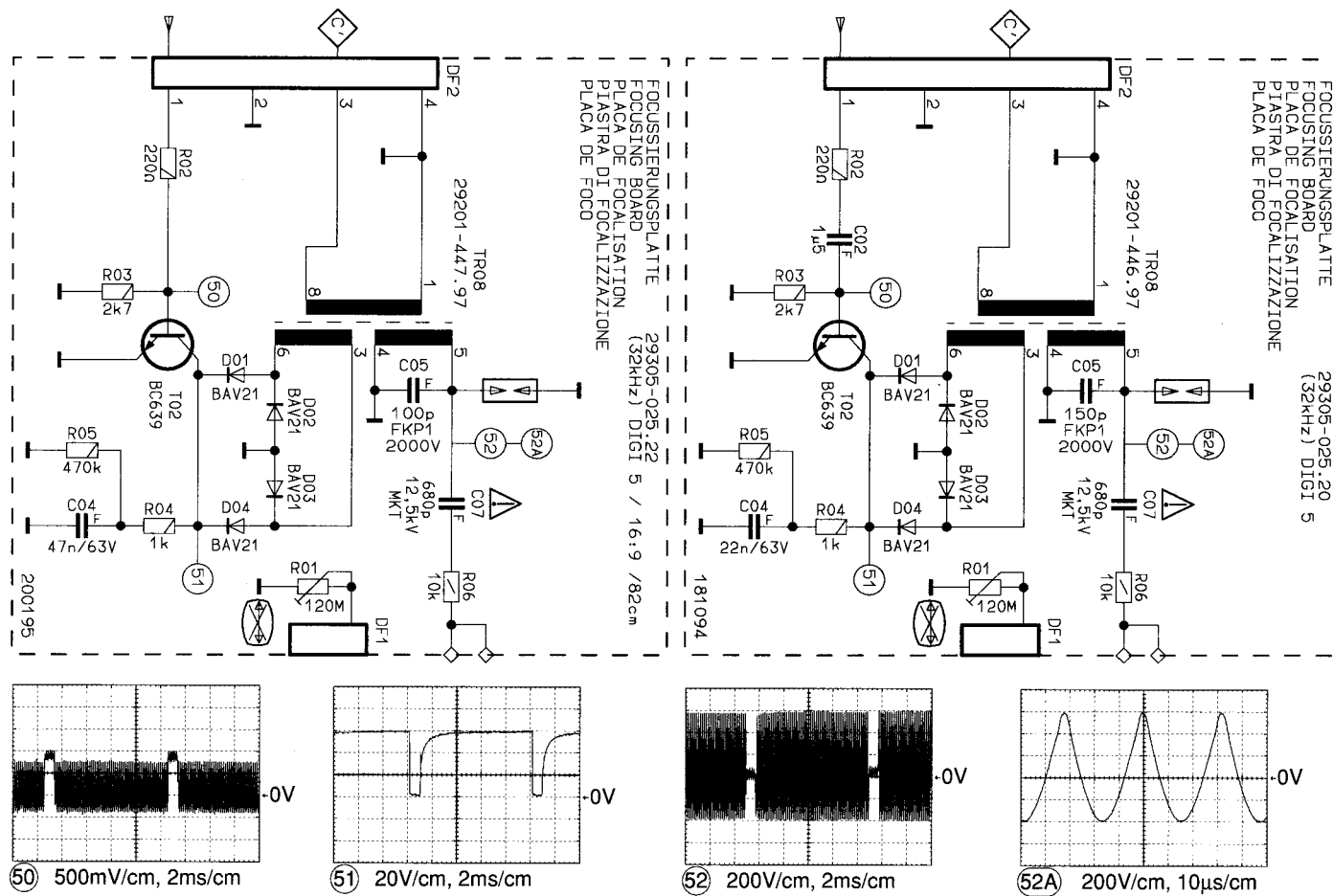
Continued at 3

Feature Box Diagram Cont'd

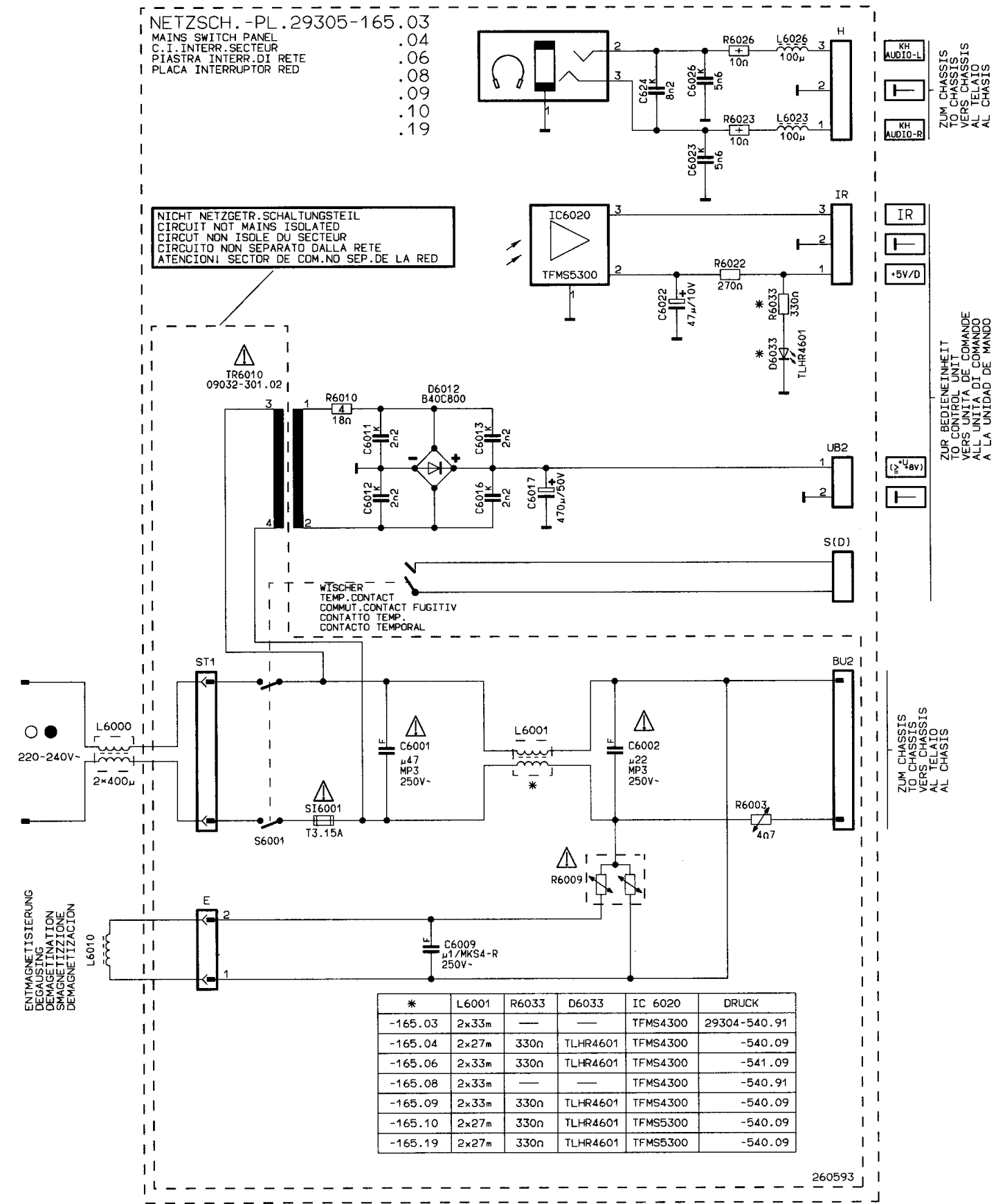


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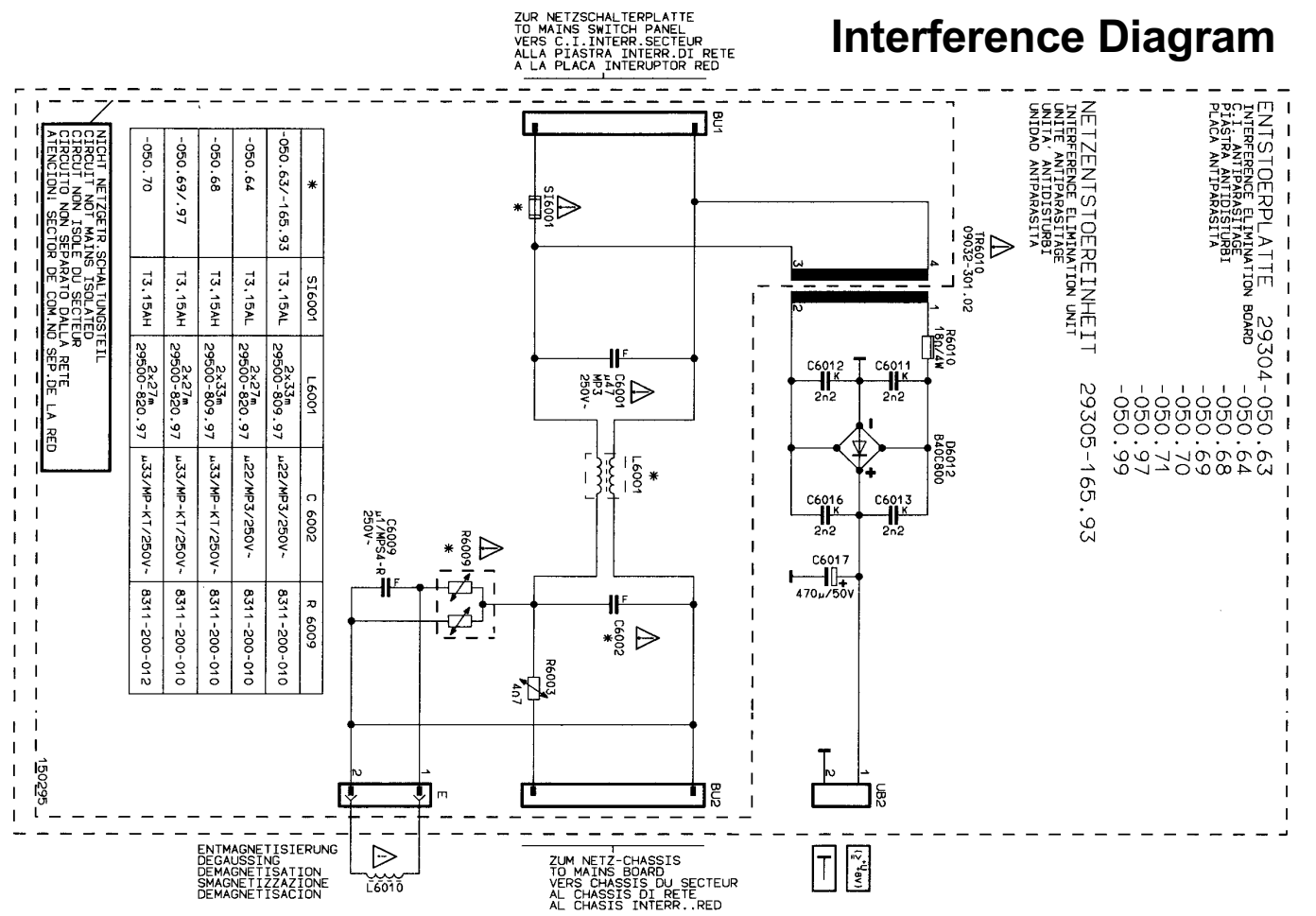
Focussing Diagram



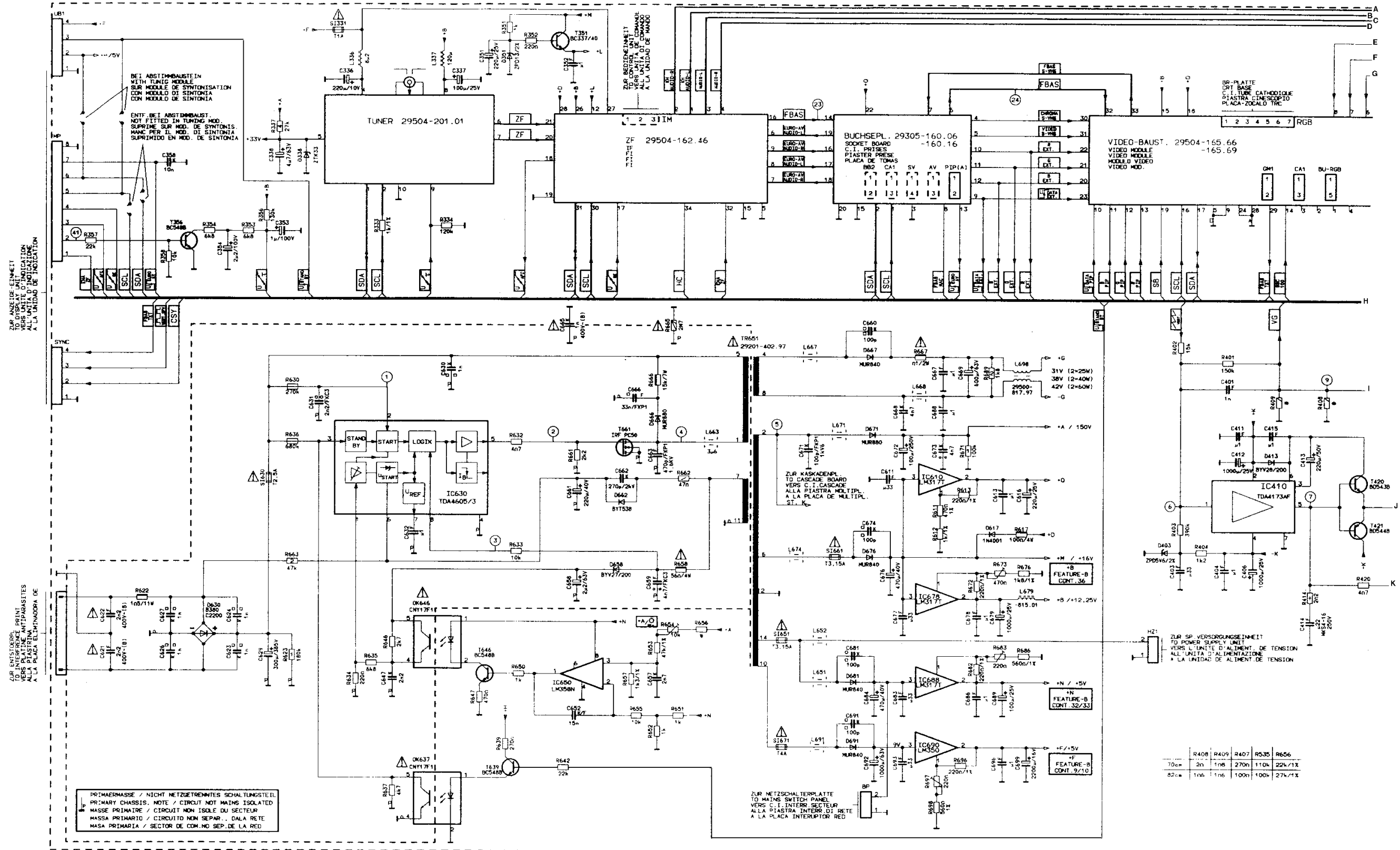
Power Supply Diagram



Interference Diagram

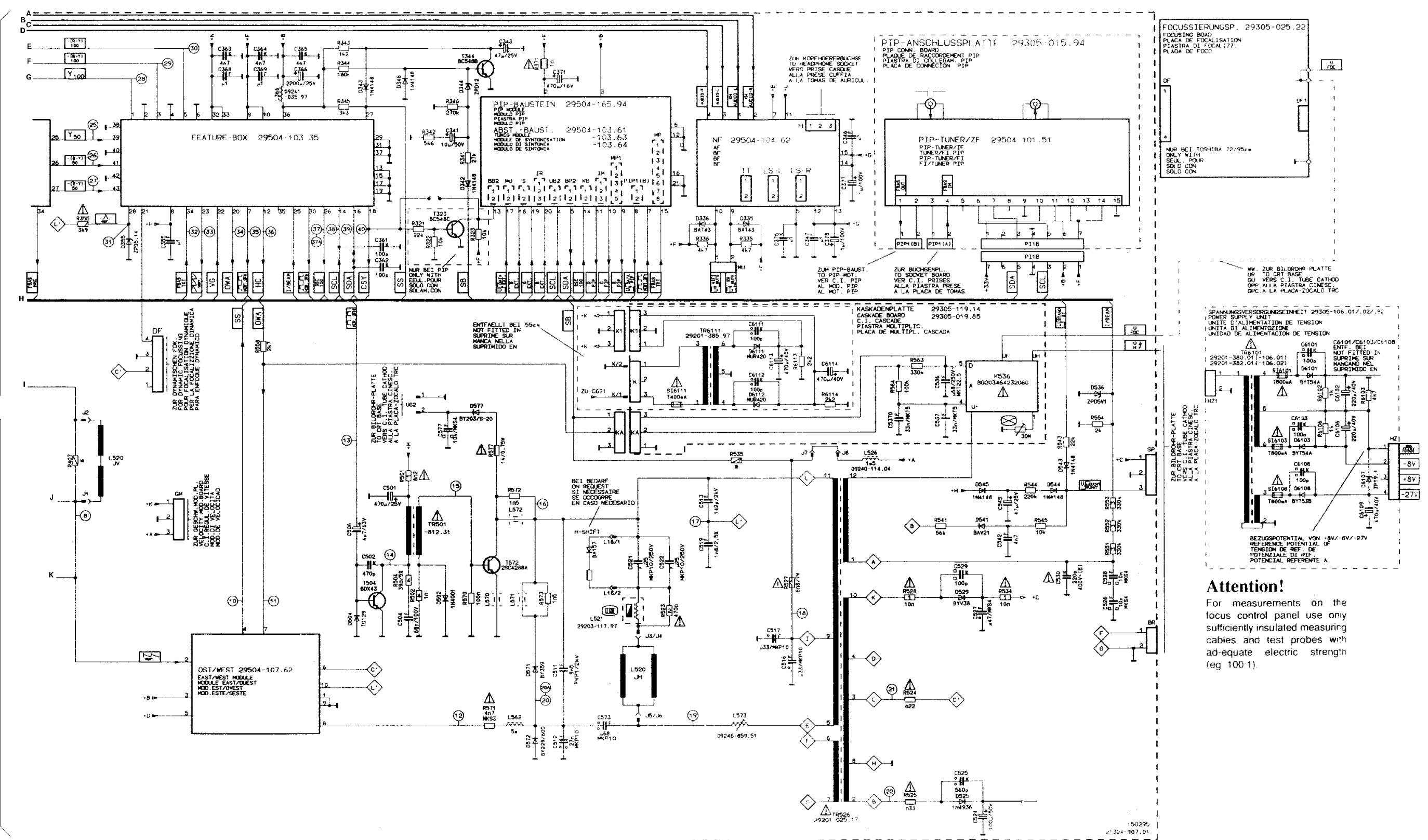


Main Diagram



Continued at 4

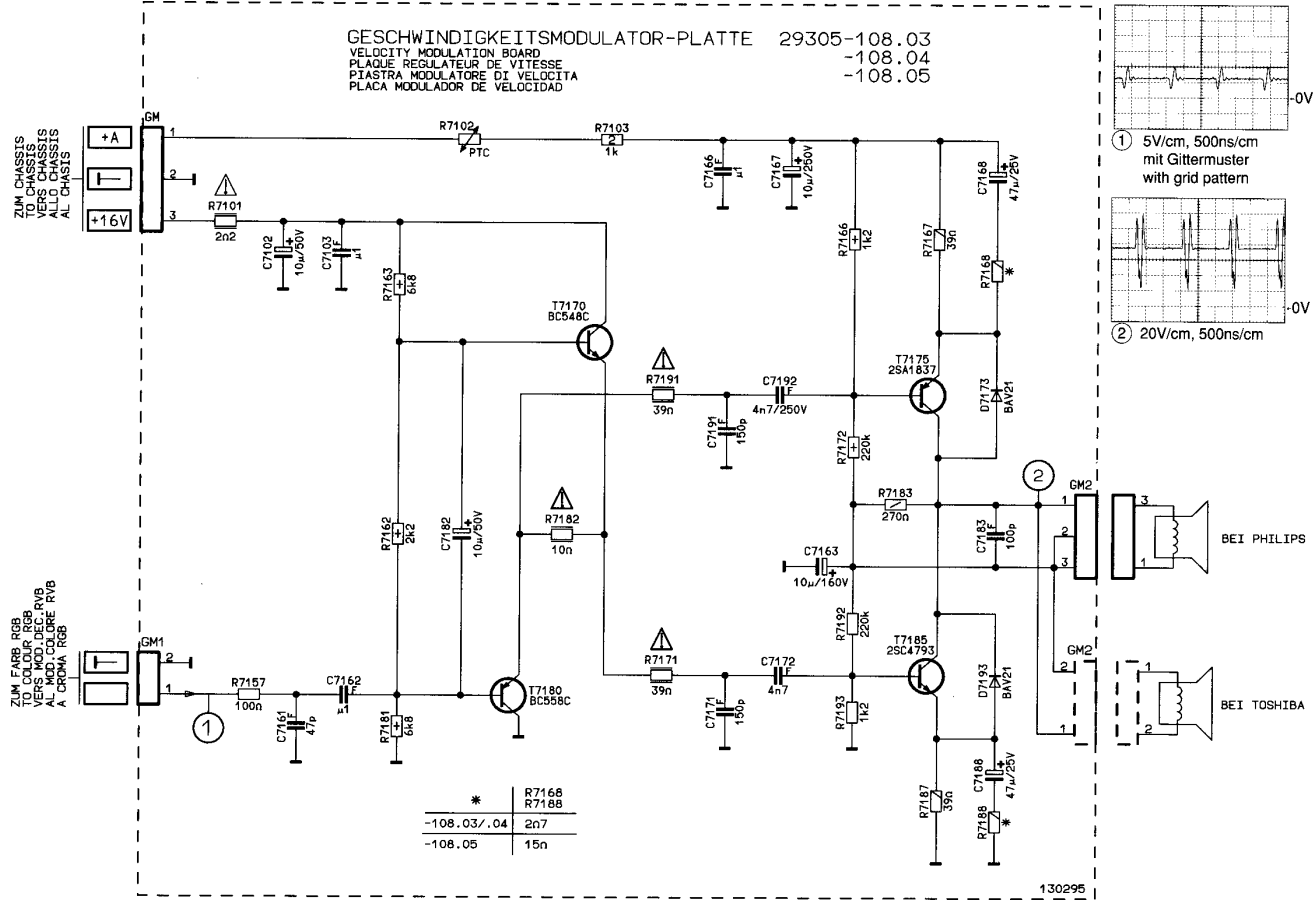
Main Diagram Cont'd



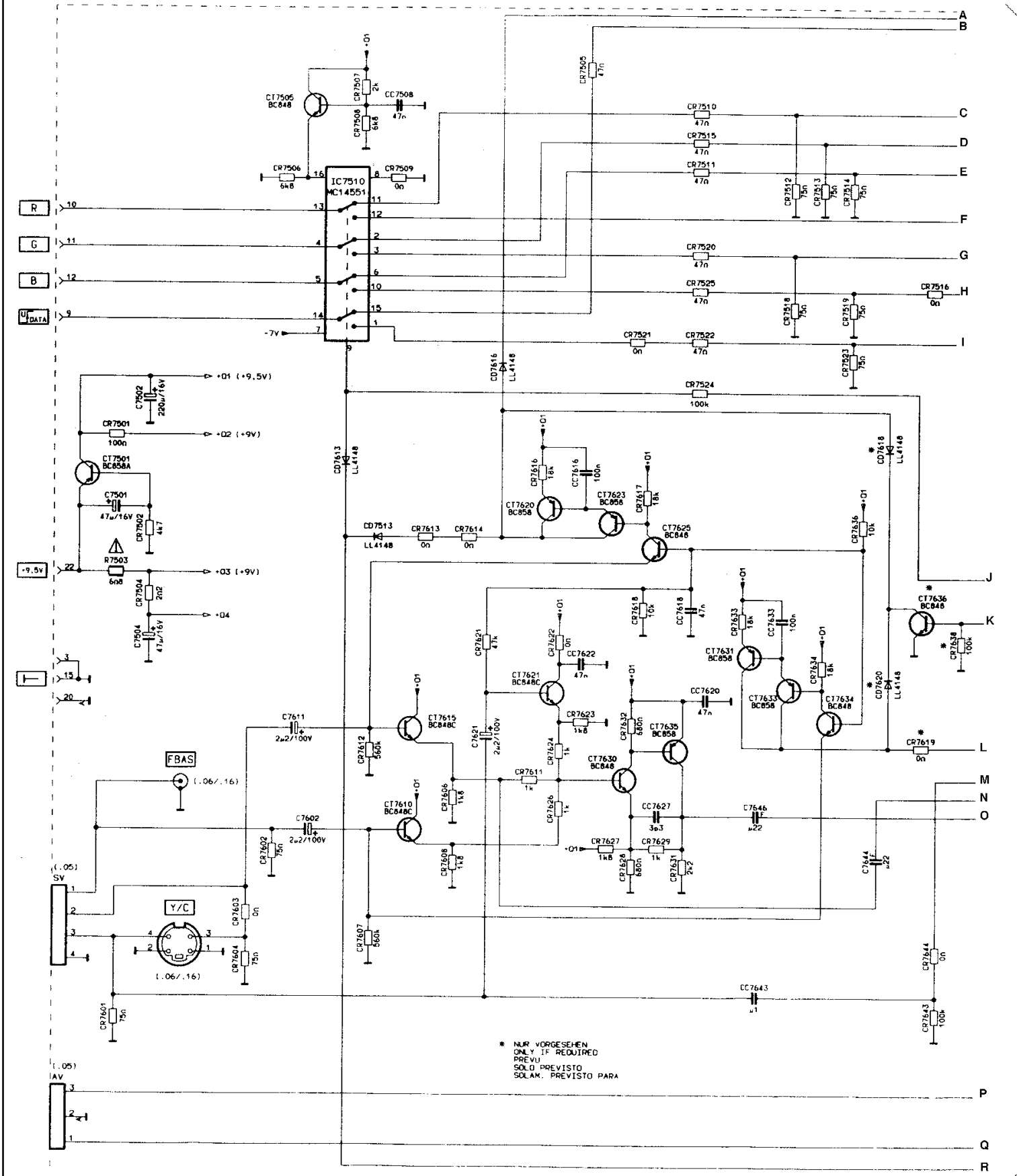
4

Attention!
 For measurements on the focus control panel use only sufficiently insulated measuring cables and test probes with adequate electric strength (eg 100:1).

Velocity Diagram



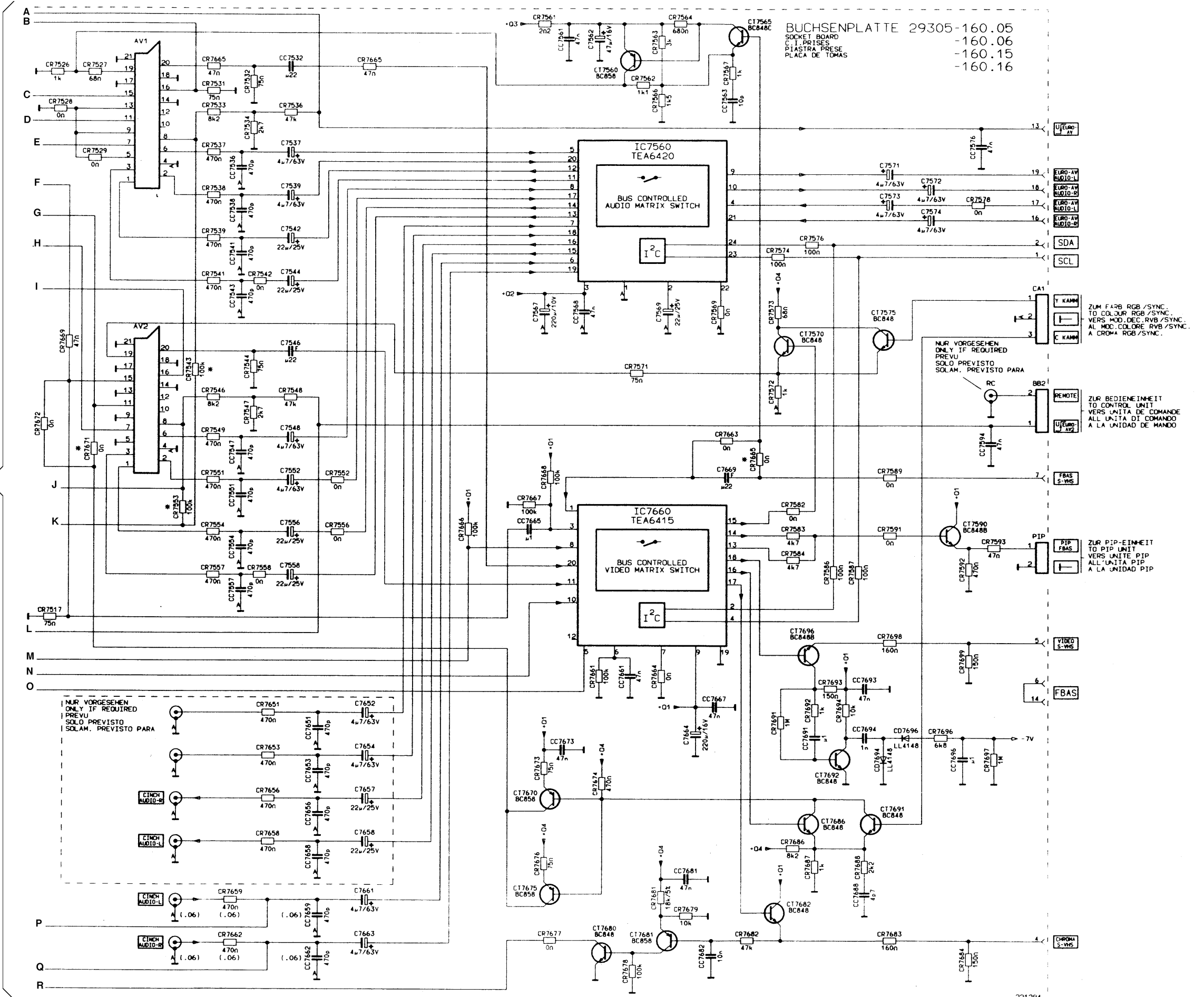
Socket Diagram



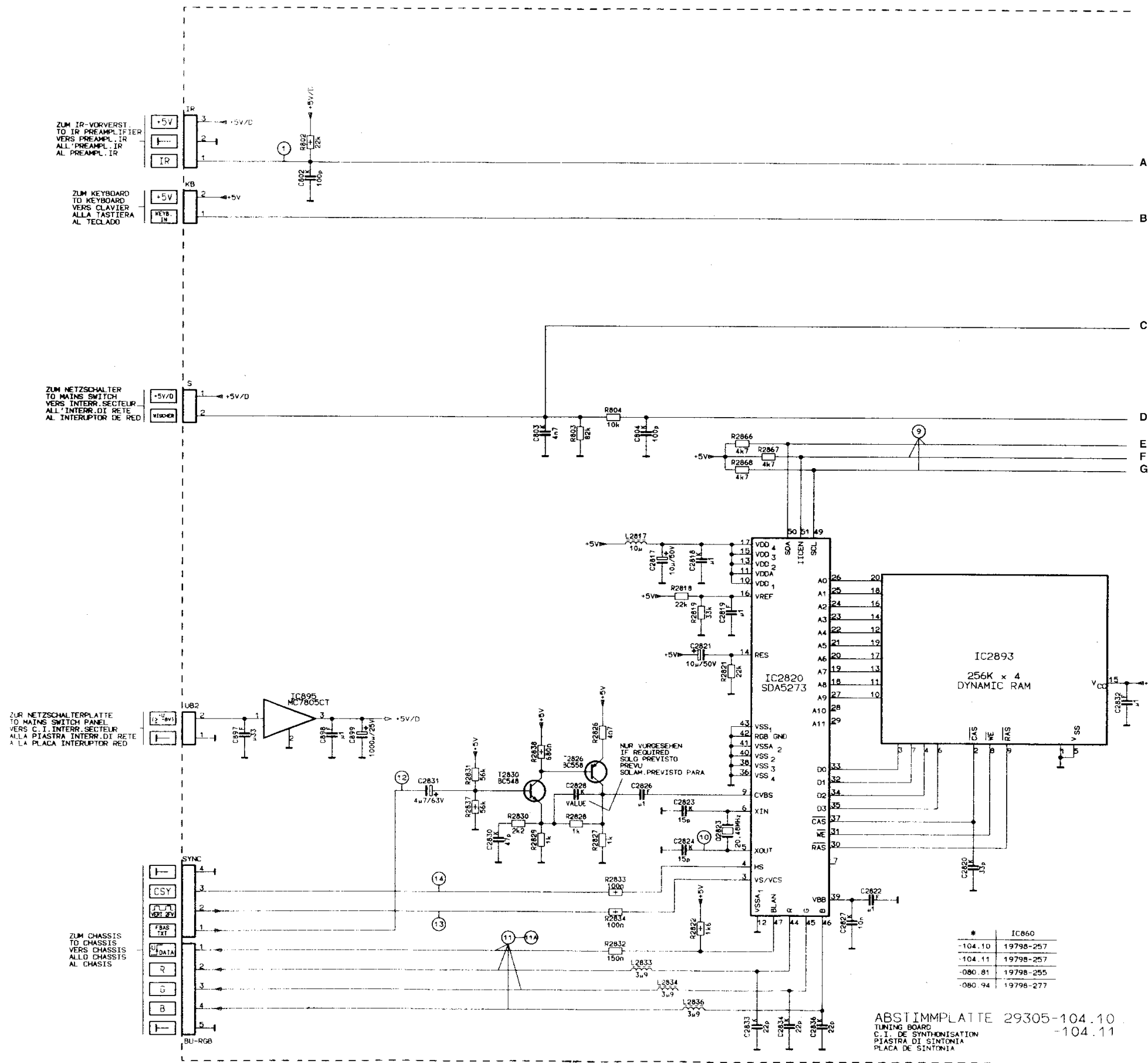
Continued at 5

Socket Diagram Cont'd

5



Tuner Diagram



Continued at 6

Tuner Diagram Cont'd

6

