GRUNDIG SERVICE MANUAL

TV

Ⓓ Btx * 32700 #

Service Manual

CUC 5510
CUC 5511

CUC 5510:

ST 63-660 NIC	(9.25798-68)
Wien ST 663 NIC	(9.25785-68)

CUC 5511:

ST 70-660 TOP	(9.25773-02)
ST 70-660 NIC	(9.25773-68)
ST 63-660 TOP	(9.25798-02)
Sydney ST 670 TOP	(9.25760-02)
Sydney ST 670 NIC	(9.25760-68)
Wien ST 663 TOP	(9.25785-02)

Ⓓ

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Subject to alteration

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Service Manual Sach-Nr. 72010-010.80
Service Manual Part No. 72010-010.80

CUC 5510

Gerät Set Apparecchio Appareil Aparato	**Bildrohrplatte** CRT Base C. I. Tube Cathod. Piastra Cinesc. Placa Zocalo TRC	**Bedieneinheit** Control Unit Unita de comm. Unita di comando Unidad de Mando	**Netzschalterplatte** Mains switch B. C. I. Int. Secteur Piastra Int. di Rete Placa interr. Red	**Tuner**	**ZF-Verstärker** IF amplifier Amplificateur de FI Amplificatore FI Amplificasor de FI	**Buchsenplatte** Euro-AV S. Board C. I. Prises Peri-TV P. Pr. Euro-AV Pl. con. Euro-AV	**Videotext** Teletext Teletexte Televideo Teletexto	**Farb/RGB** Colour RGB Decodeur/RVB Colore/RVB Croma RGB	**Ost/West** East/West Ouest/Est Ouest/Est Este/Oste
ST 63-660 NIC	29305-022.62	29501-074.70	29304-065.89	29504-101.21	29504-102.47	29304-060.86	29504-108.73	29504-105.51/.52	29504-107.84
Wien ST 663 NIC	29305-022.62	29501-074.71	-	29504-101.21	29504-102.47	29304-060.86	29504-108.73	29504-105.51/.52	29504-107.84

CUC 5511

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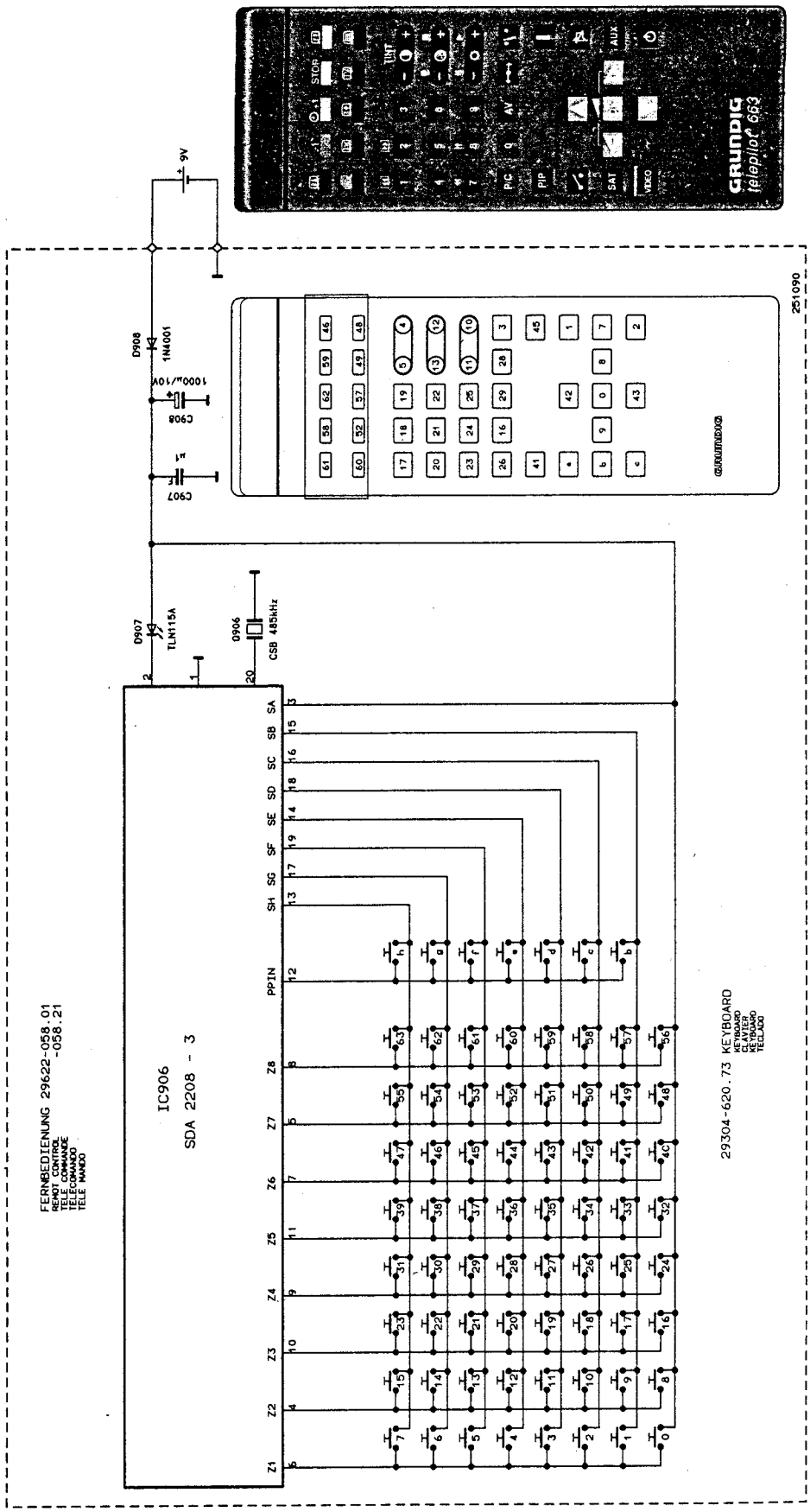
(D)

Telepilot TP 663

(GB)

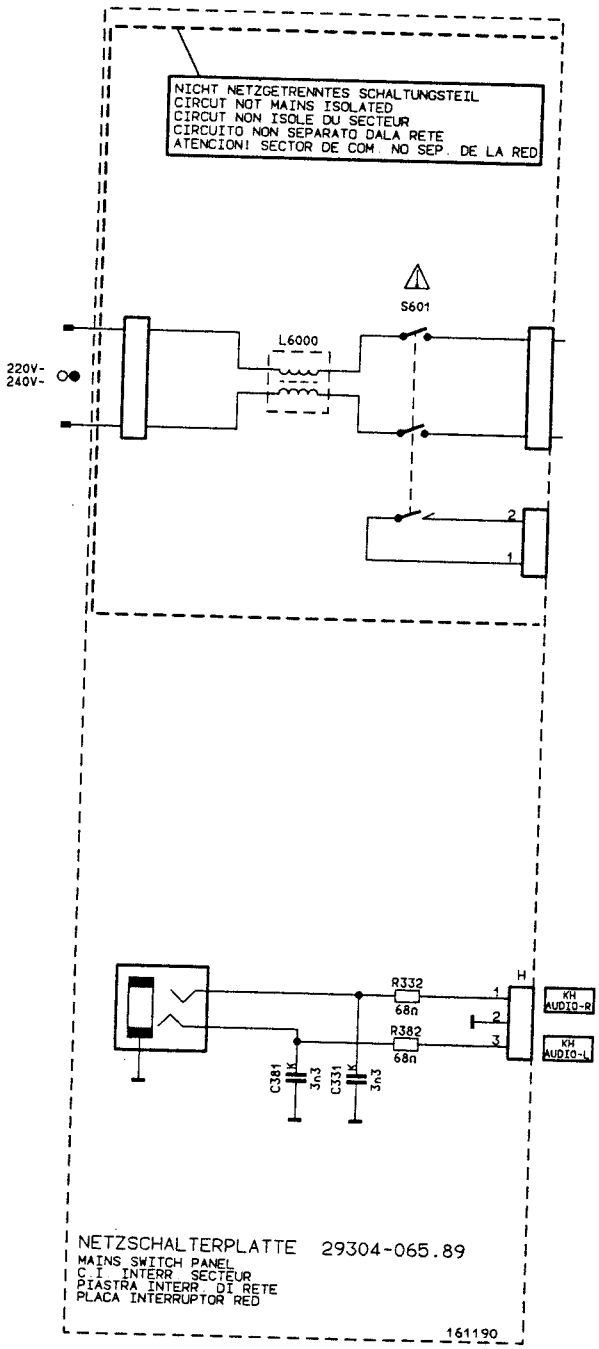
Remote control TP 663



(D)

Netzschalterplatte

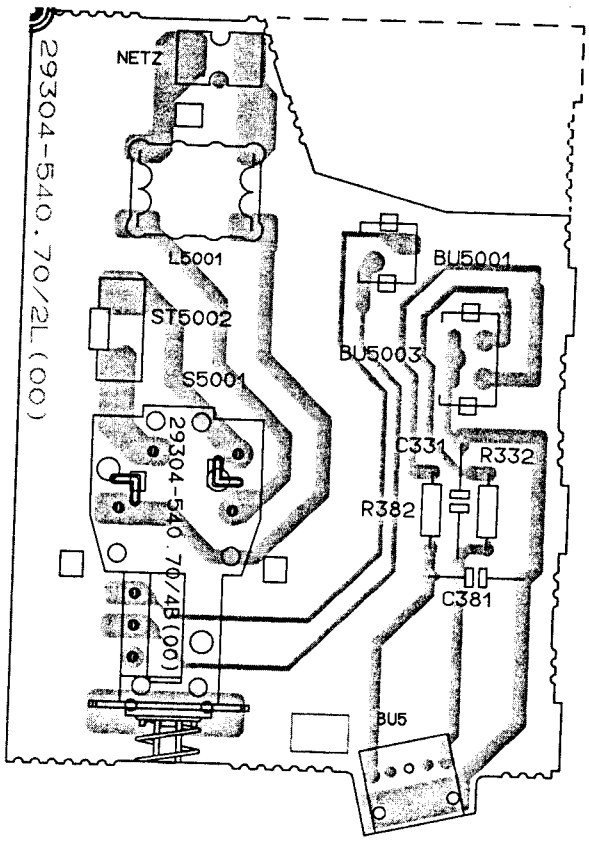
Servicearbeiten nach Bausteinwechsel: keine.



(GB)

Mains switch panel

Servicing work after replacing the module: none.



(D)

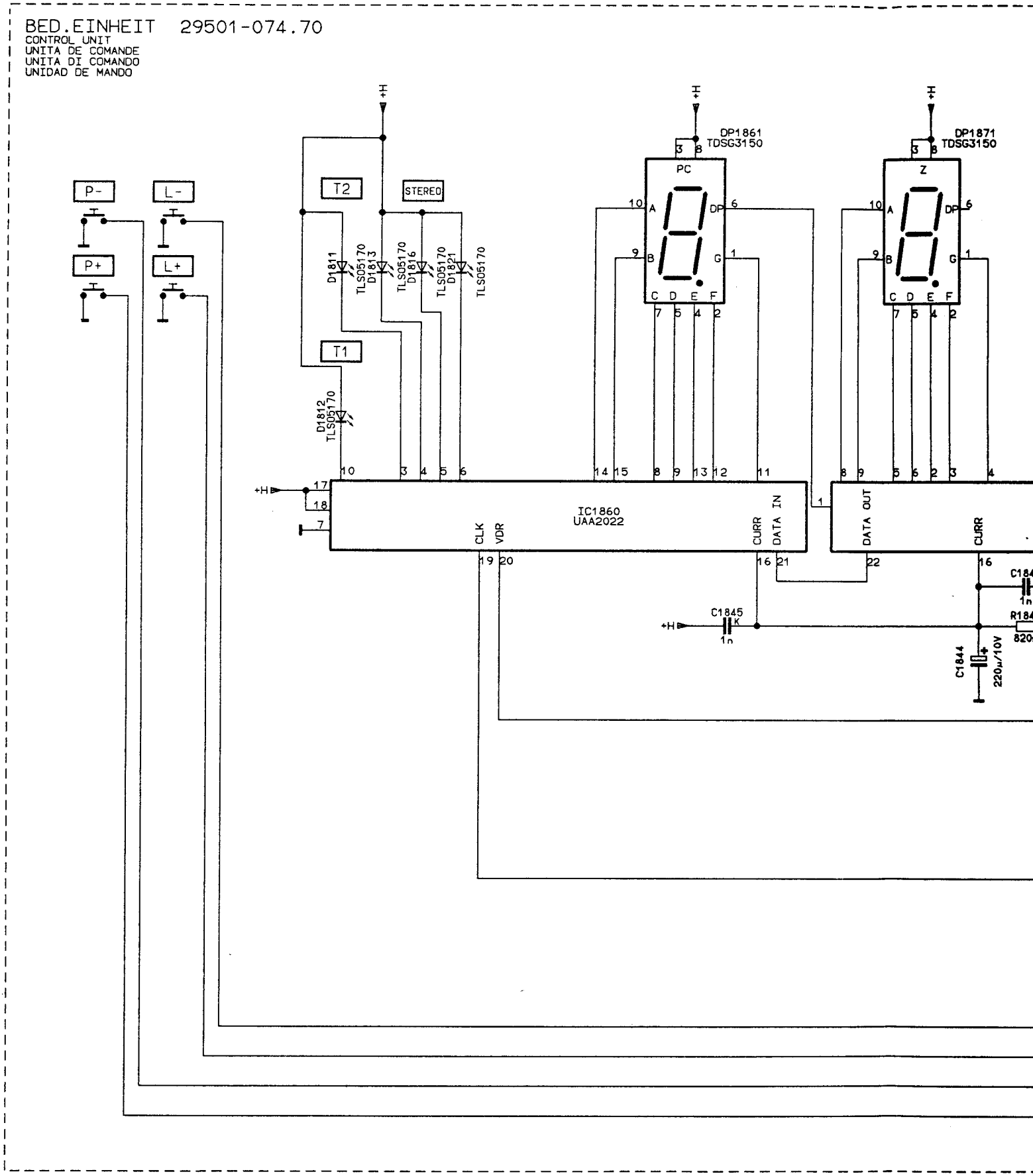
Bedieneinheit

Servicearbeiten nach Bausteinwechsel: keine.

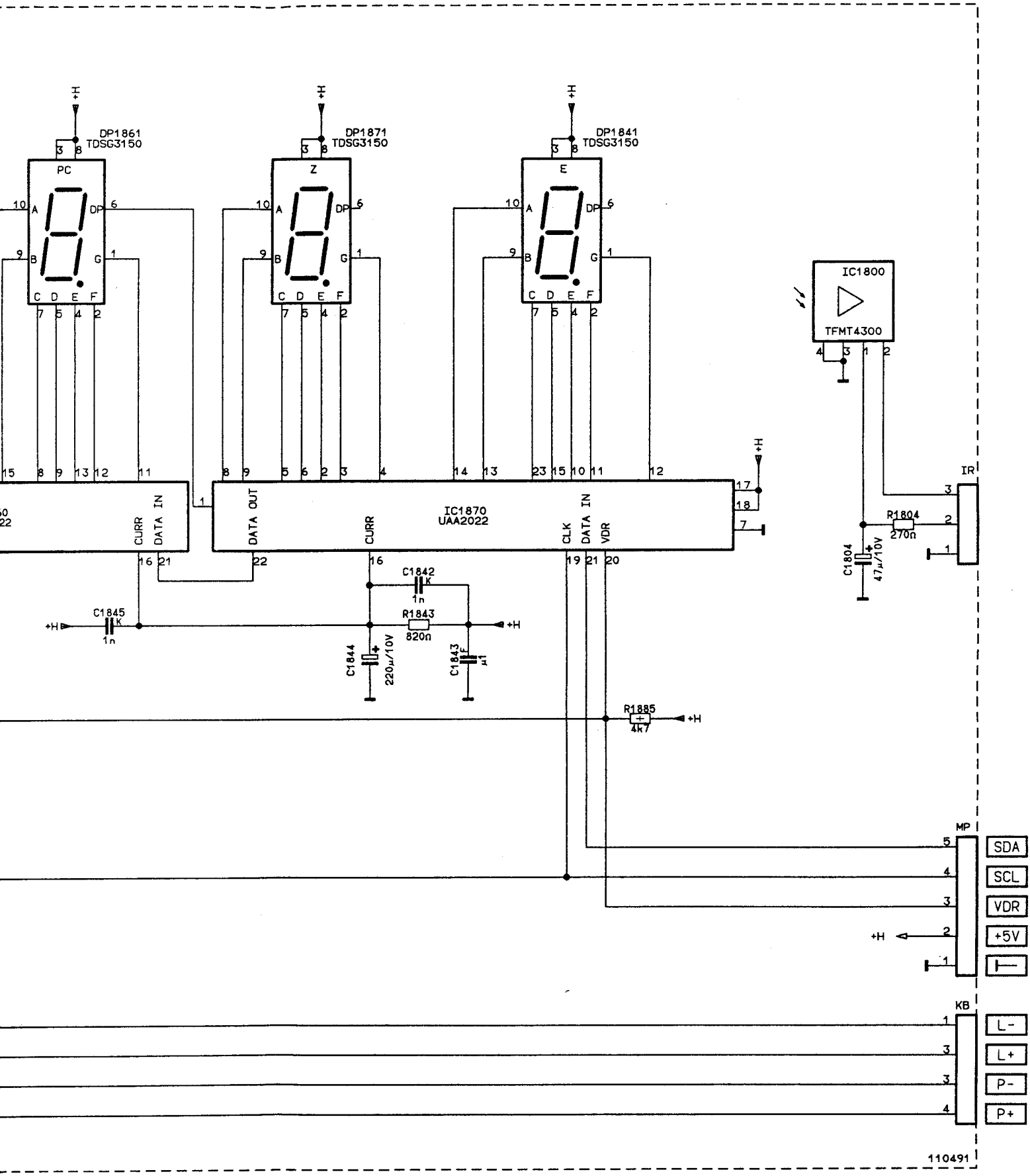
(GB)

Control unit

Servicing work after replacing the module: none.



replacing the module: none.



(D)

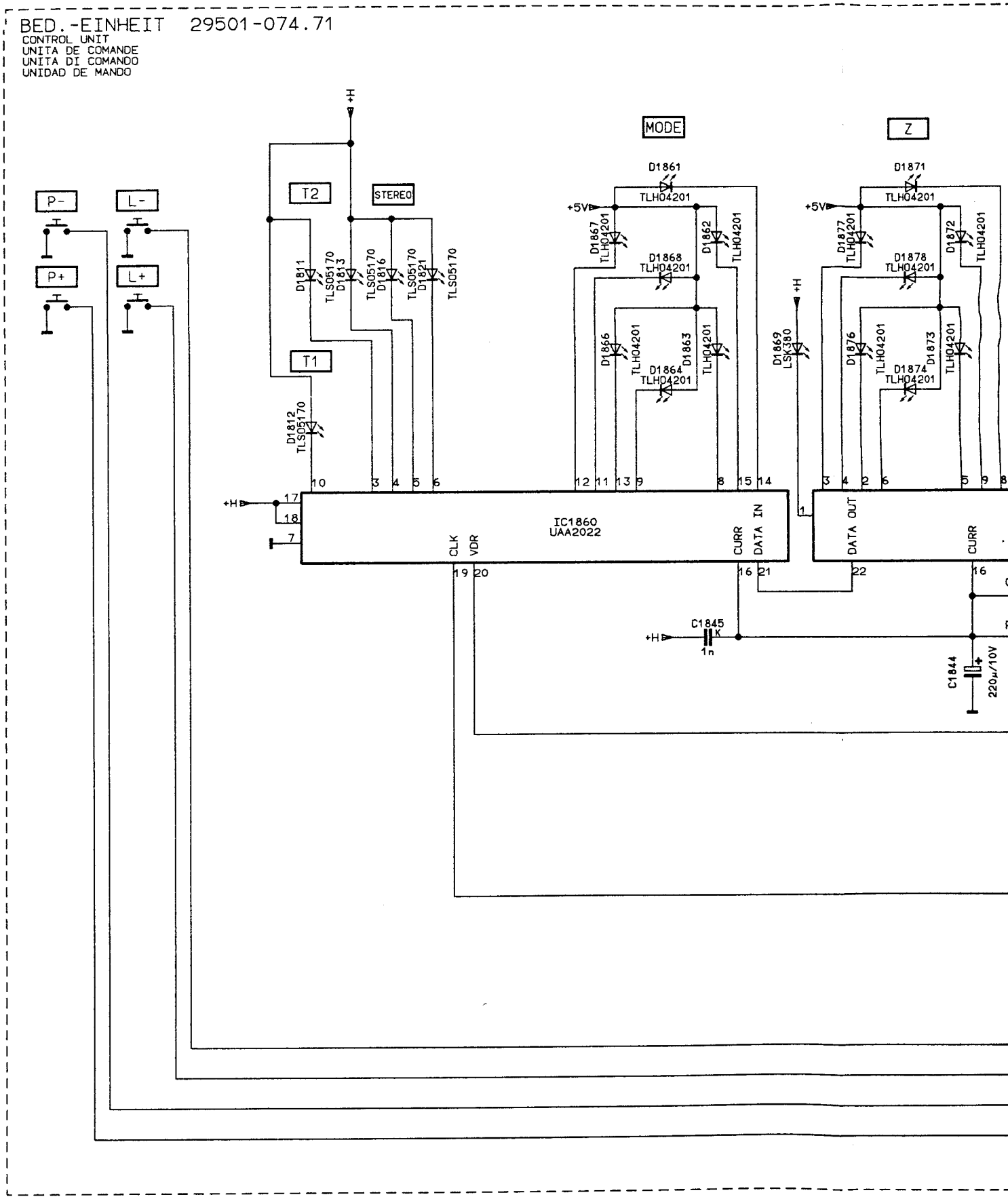
Bedieneinheit

Servicearbeiten nach Bausteinwechsel: keine.

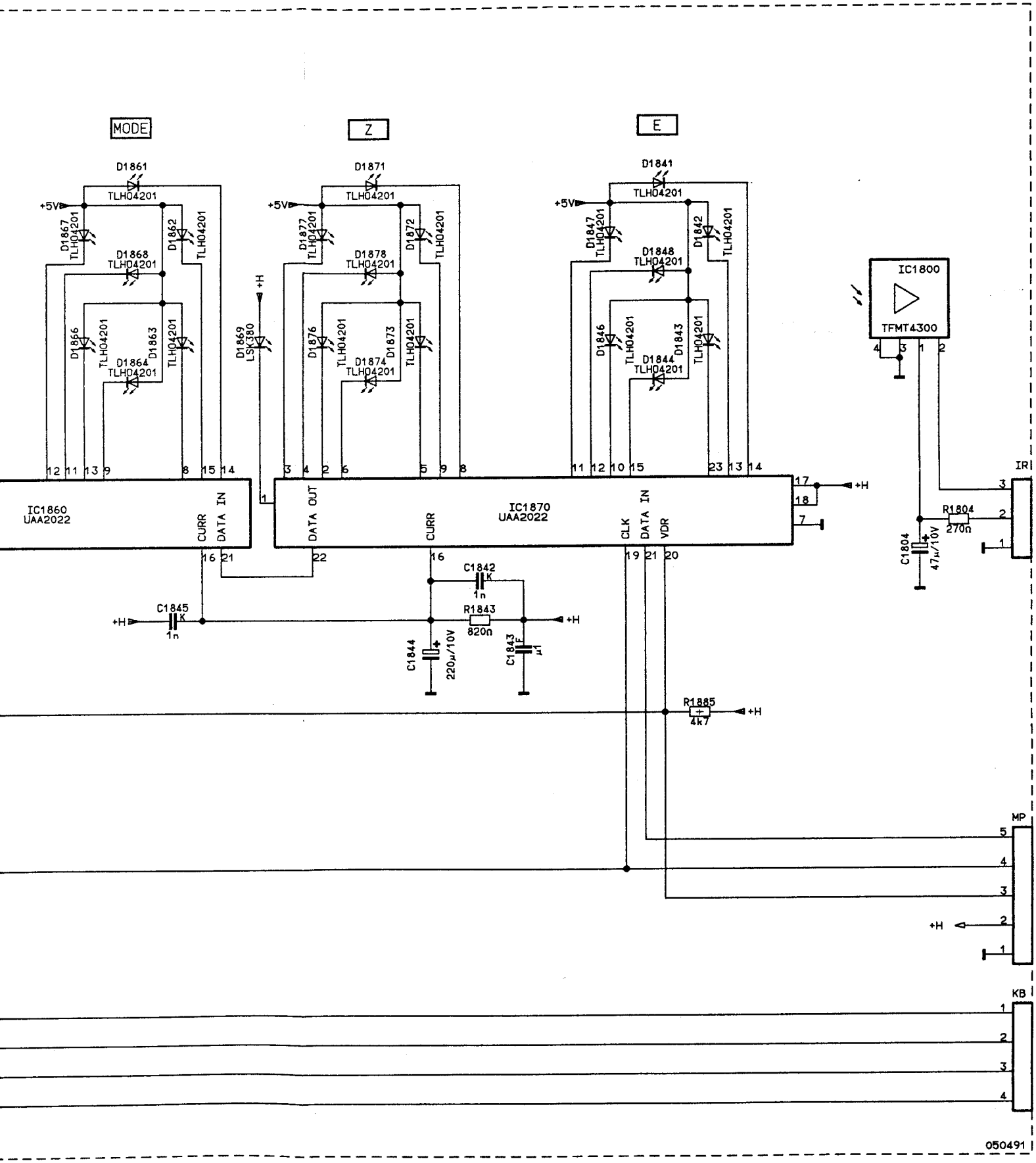
(GB)

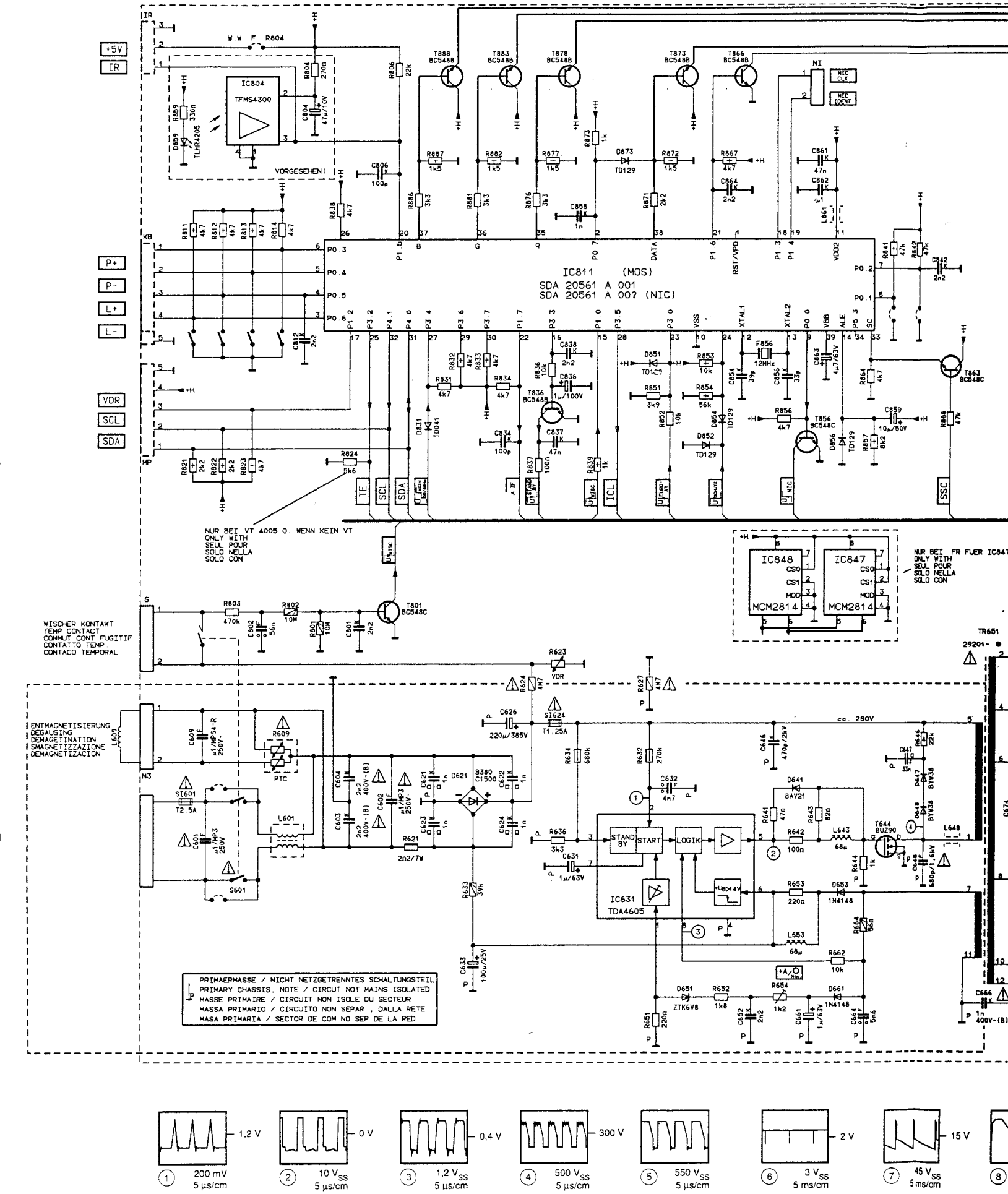
Control unit

Servicing work after replacing the module: none.

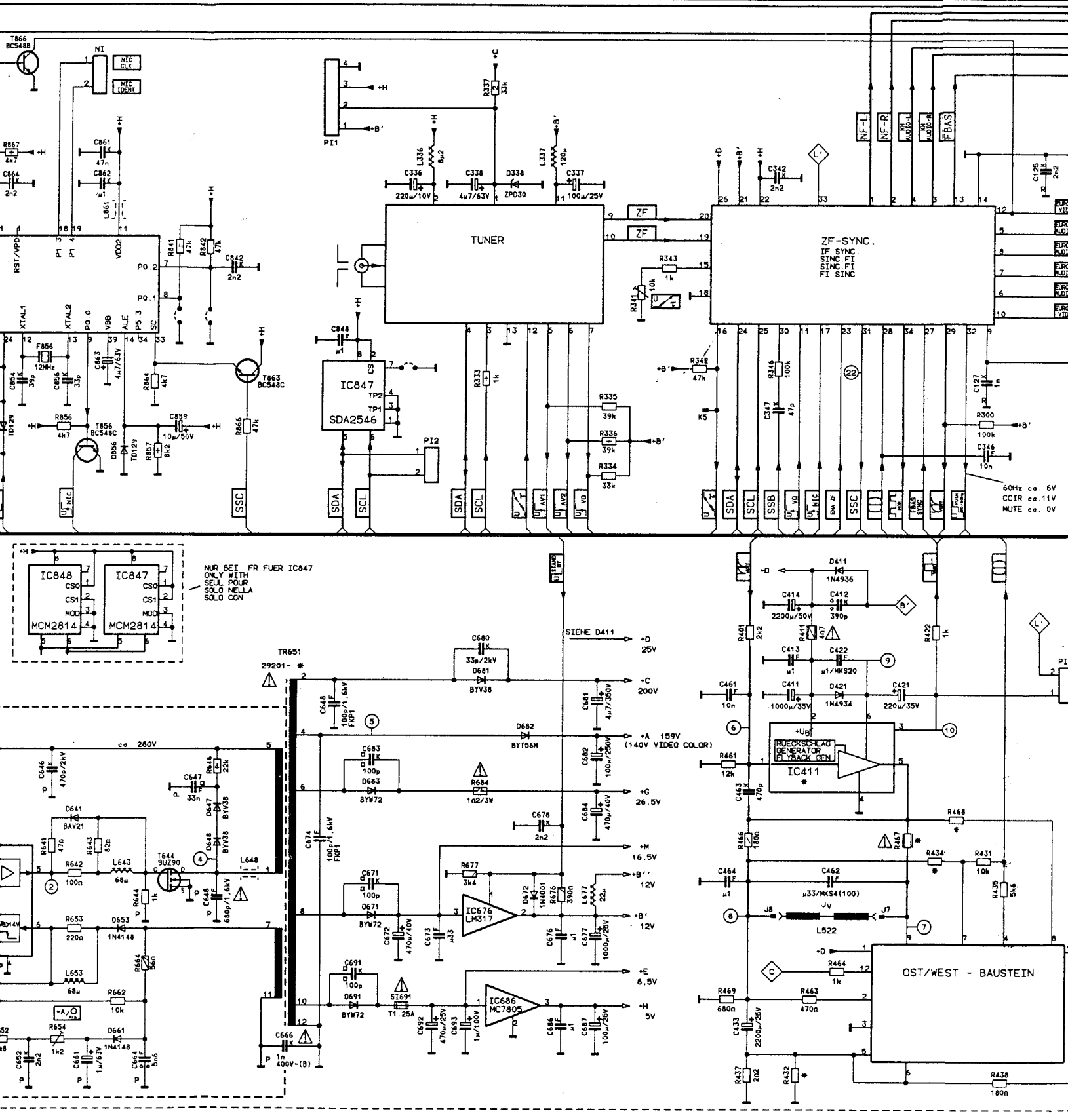


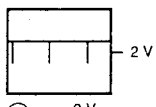
r replacing the module: none.

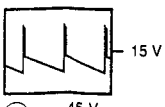



IR
+5V
IR
W.W F. R804
IC804
TFMS4300
VORGESEHEN!
IC811 (MOS)
SDA 20561 A 001
SDA 20561 A 00? (NIC)
KB
P+
P-
L+
L-
VDR
SCL
SDA
TE
SSC
NUR BEI VT 4005 O. WENN KEIN VT
ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON
IC848
IC847
MCM2814
WISCHER KONTAKT
TEMP CONTACT
COMMUT CONT FUGITIF
CONTATTO TEMP
CONTACO TEMPORAL
ENTMAGNETISIERUNG
DEGAUSING
DEMAGETINATION
SMAGNETIZZAZIONE
DEMAGNETIZACION
PTC
IC631
TDA4605
STAND BY
START
LOGIK
ca. 280V
TR651
29201- *
PRIMAERMASSE / NICHT NETZGETRENNTES SCHALTUNGSTEIL
PRIMARY CHASSIS, NOTE / CIRCUT NOT MAINS ISOLATED
MASSE PRIMAIRE / CIRCUIT NON ISOLE DU SECTEUR
MASSA PRIMARIO / CIRCUITO NON SEPAR., DALLA RETE
MASA PRIMARIA / SECTOR DE COM NO SEP DE LA RED

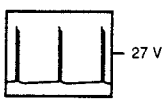
1,2 V
200 mV
5 µs/cm
0 V
10 V$_{SS}$
5 µs/cm
0,4 V
1,2 V$_{SS}$
5 µs/cm
300 V
500 V$_{SS}$
5 µs/cm
550 V$_{SS}$
5 µs/cm
2 V
3 V$_{SS}$
5 ms/cm
15 V
45 V$_{SS}$
5 ms/cm

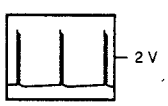

TUNER
ZF-SYNC.
IF SYNC.
SINC.FI
SINC.FI
FI SINC.
IC847
SDA2546
IC848
MCM2814
IC847
MCM2814
NUR BEI FR FUER IC847
ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON
SIEHE D411
TR651
29201-
IC411
RUECKSCHLAG
GENERATOR
FLYBACK GEN
OST/WEST - BAUSTEIN
IC676
LM317
IC686
MC7805
L522
60Hz ca. 6V
CCIR ca.11V
MUTE ca. 0V

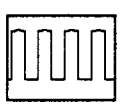

2 V
3 V$_{SS}$
5 ms/cm

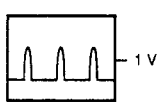

15 V
45 V$_{SS}$
5 ms/cm

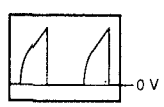

15 V
3 V$_{SS}$
5 ms/cm

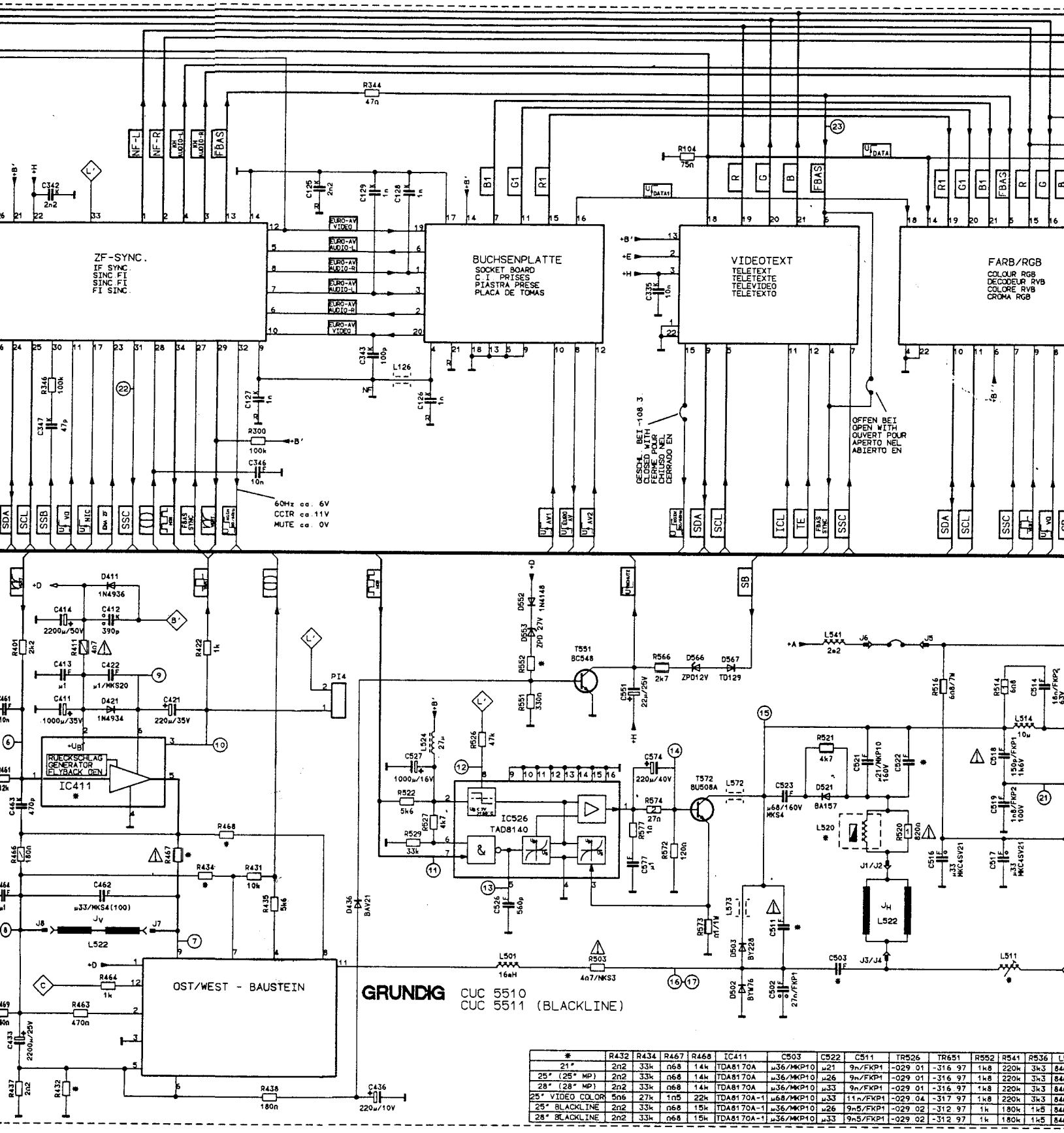

27 V
28 V$_{SS}$
5 ms/cm


2 V
28 V$_{SS}$
5 ms/cm

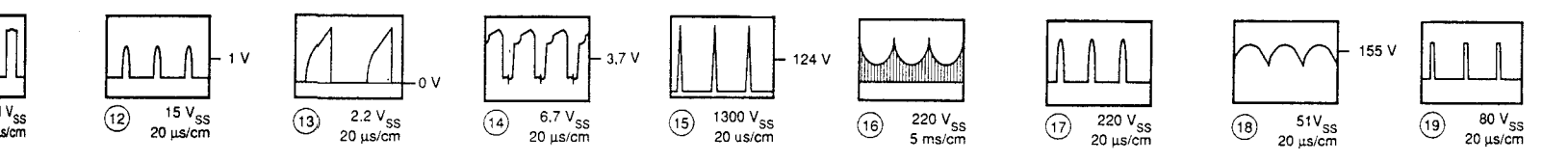

11 V$_{SS}$
20 µs/cm

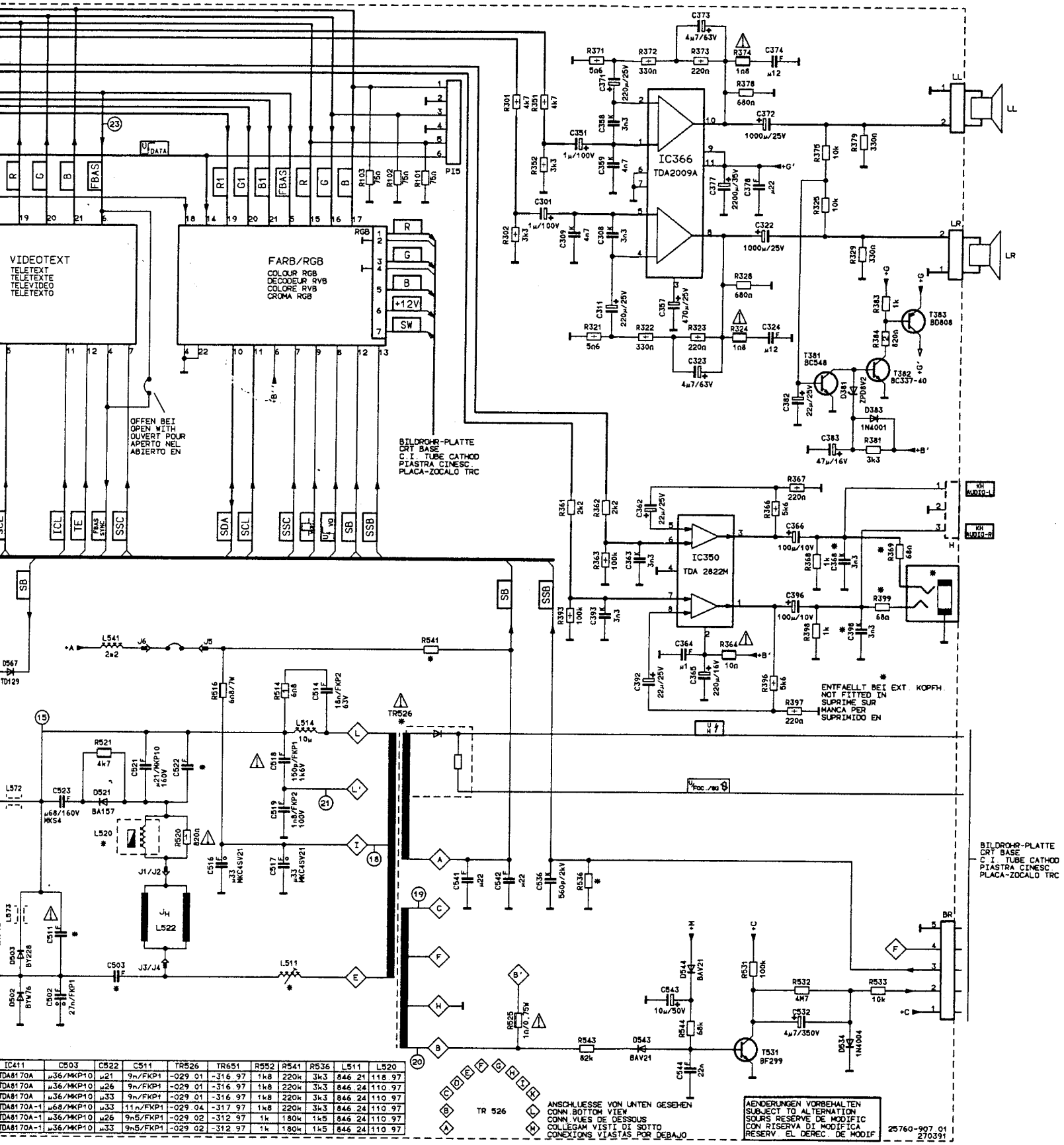

1 V
15 V$_{SS}$
20 µs/cm


0 V
2.2 V$_{SS}$
20 µs/cm

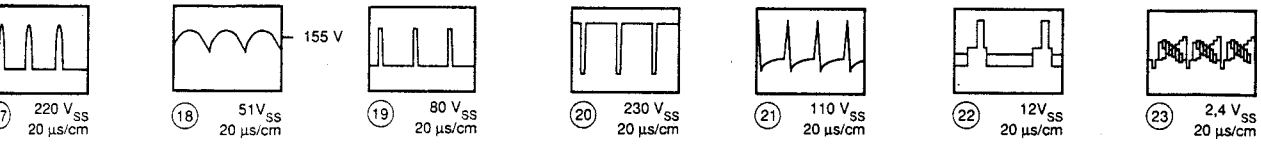


*	R432	R434	R467	R468	IC411	C503	C522	C511	TR526	TR651	R552	R541	R536	L
21"	2n2	33k	n68	14k	TDA8170A	µ36/MKP10	µ21	9n/FKP1	-029 01	-316 97	1k8	220k	3k3	84
25" (25" MP)	2n2	33k	n68	14k	TDA8170A	µ36/MKP10	µ26	9n/FKP1	-029 01	-316 97	1k8	220k	3k3	84
28" (28" MP)	2n2	33k	n68	14k	TDA8170A	µ36/MKP10	µ33	9n/FKP1	-029 01	-316 97	1k8	220k	3k3	84
25" VIDEO COLOR	5n6	27k	1n5	22k	TDA8170A-1	µ68/MKP10	µ33	11n/FKP1	-029 04	-317 97	1k8	220k	3k3	84
25" BLACKLINE	2n2	33k	n68	15k	TDA8170A-1	µ36/MKP10	µ26	9n5/FKP1	-029 02	-312 97	1k	180k	1k5	84
28" BLACKLINE	2n2	33k	n68	15k	TDA8170A-1	µ36/MKP10	µ33	9n5/FKP1	-029 02	-312 97	1k	180k	1k5	84

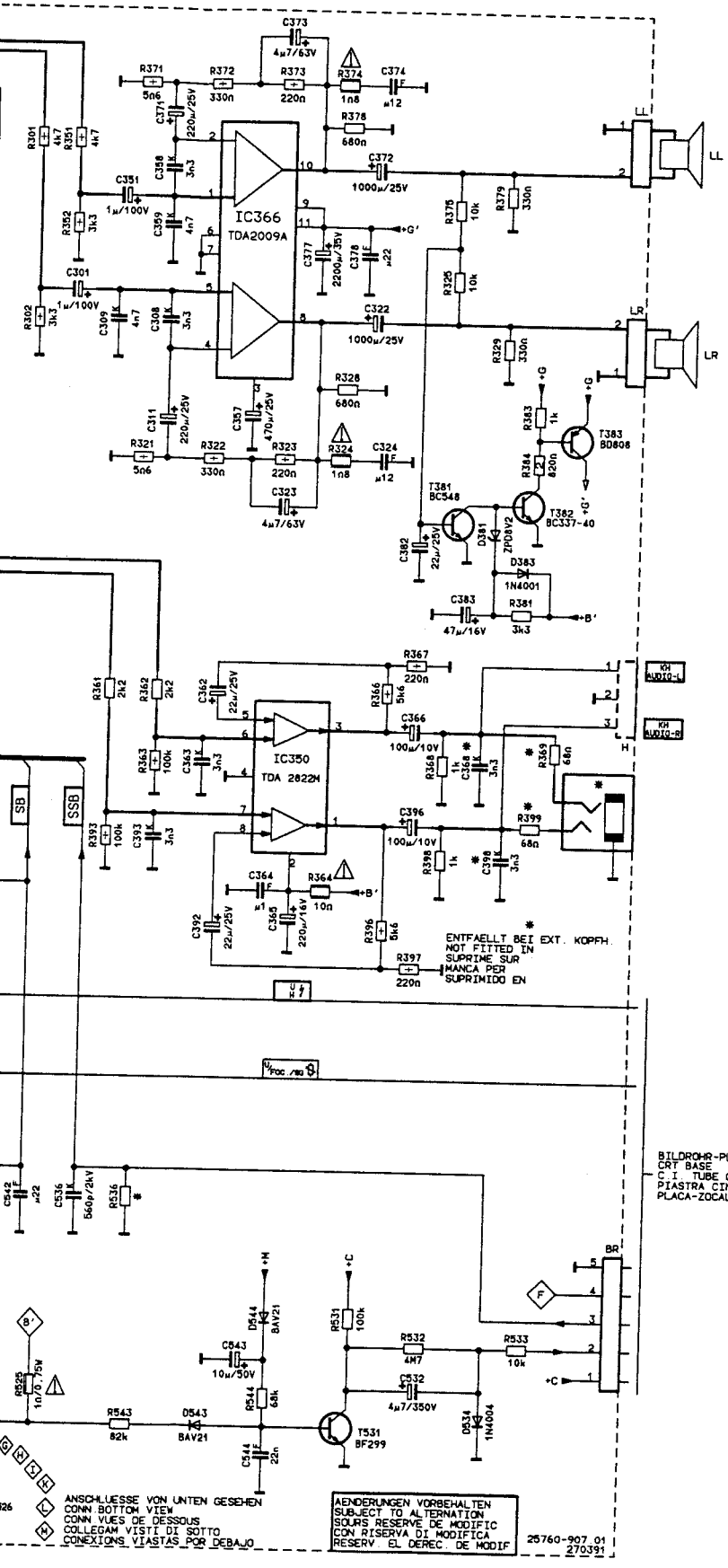


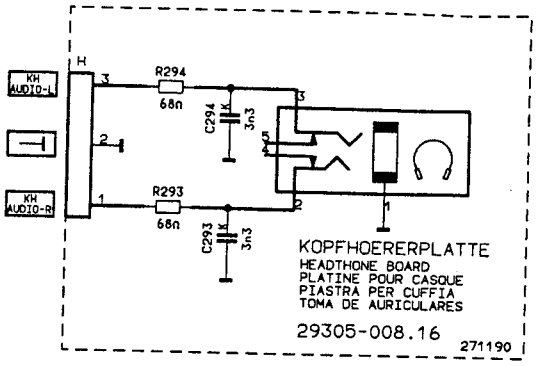


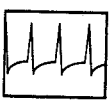
IC411	C503	C522	C511	TR526	TR651	R552	R541	R536	L511	L520
TDA8170A	µ36/MKP10	µ21	9n/FKP1	-029.01	-316.97	1k8	220k	3k3	846.21	118.97
TDA8170A	µ36/MKP10	µ26	9n/FKP1	-029.01	-316.97	1k8	220k	3k3	846.24	110.97
TDA8170A	µ36/MKP10	µ33	9n/FKP1	-029.01	-316.97	1k8	220k	3k3	846.24	110.97
TDA8170A-1	µ68/MKP10	µ33	11n/FKP1	-029.04	-317.97	1k8	220k	3k3	846.24	110.97
TDA8170A-1	µ36/MKP10	µ26	9n5/FKP1	-029.02	-312.97	1k	180k	1k5	846.24	110.97
TDA8170A-1	µ36/MKP10	µ33	9n5/FKP1	-029.02	-312.97	1k	180k	1k5	846.24	110.97

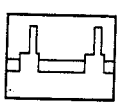


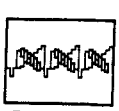
(17) 220 V_{SS} 20 µs/cm
(18) 51 V_{SS} 20 µs/cm
(19) 80 V_{SS} 20 µs/cm
(20) 230 V_{SS} 20 µs/cm
(21) 110 V_{SS} 20 µs/cm
(22) 12 V_{SS} 20 µs/cm
(23) 2,4 V_{SS} 20 µs/cm






(21) 110 V_{SS} 20 µs/cm


(22) 12 V_{SS} 20 µs/cm


(23) 2,4 V_{SS} 20 µs/cm

(D)

Tuner-Regelspannungseinsatz

1. Sendernormtestbild (oberer UHF-Bereich, Antennenpegel 60 dBµV) einspeisen.
2. Regler R 341 (ZF-Verst., Kontakt 15) in Richtung Linksanschlag drehen, bis das Bild zu rauschen beginnt. Dann wieder zurückdrehen bis das Bild gerade rauschfrei wird.

Abgleich der Brückenspule L 511

1. Die Bildbreite auf Minimum einstellen (R 7002, Ost/West-Baustein).
2. Den Tastkopf eines Zweistrahloszilloskopes an den Kollektor des Transistors T 572 anschließen.
3. Den zweiten Tastkopf zwischen den Dioden D 502 und D 503 anschließen.
4. Mit der Spule L 511 beide Oszillogramme auf gleiche Impulsbreite abgleichen.

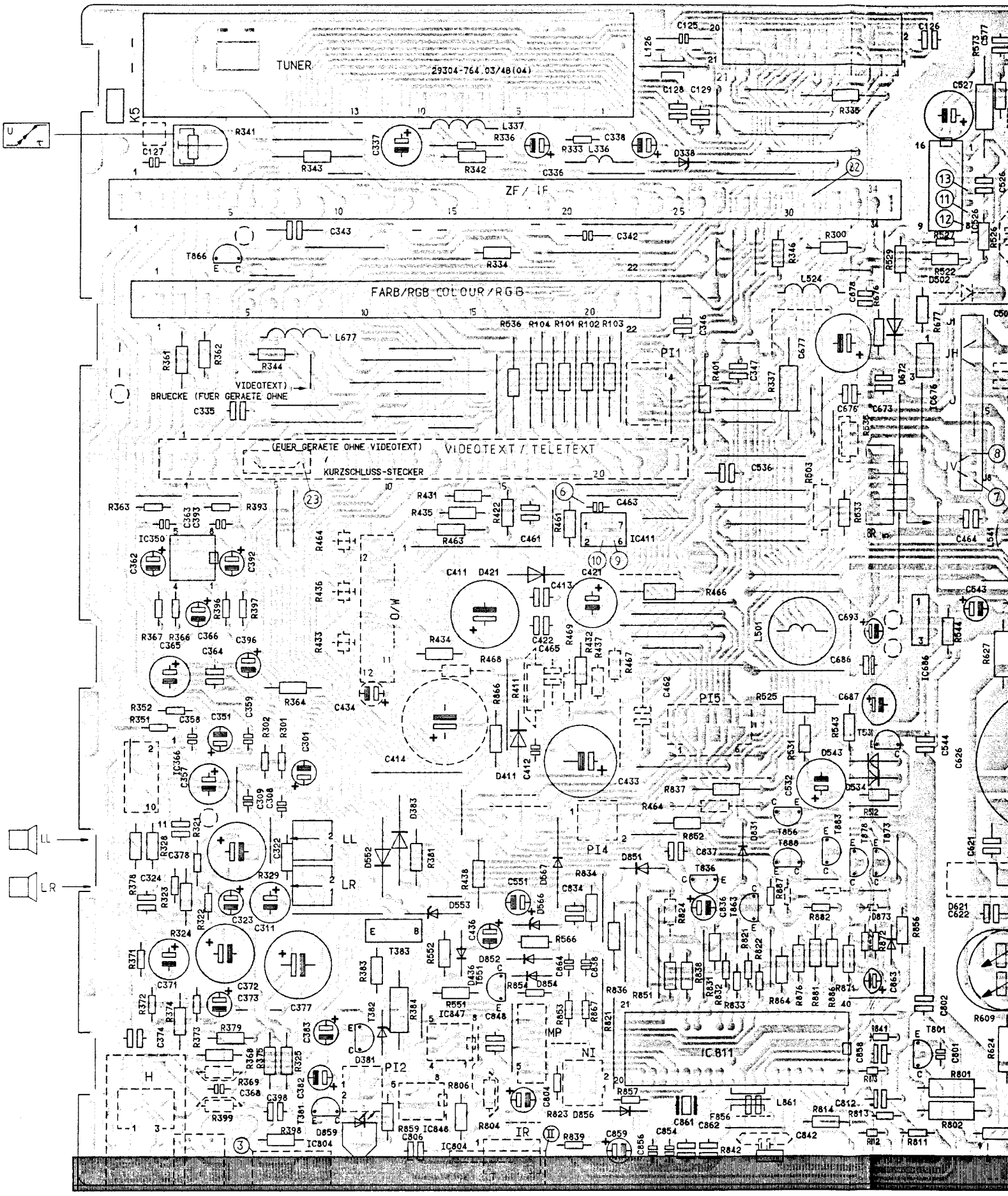
(GB)

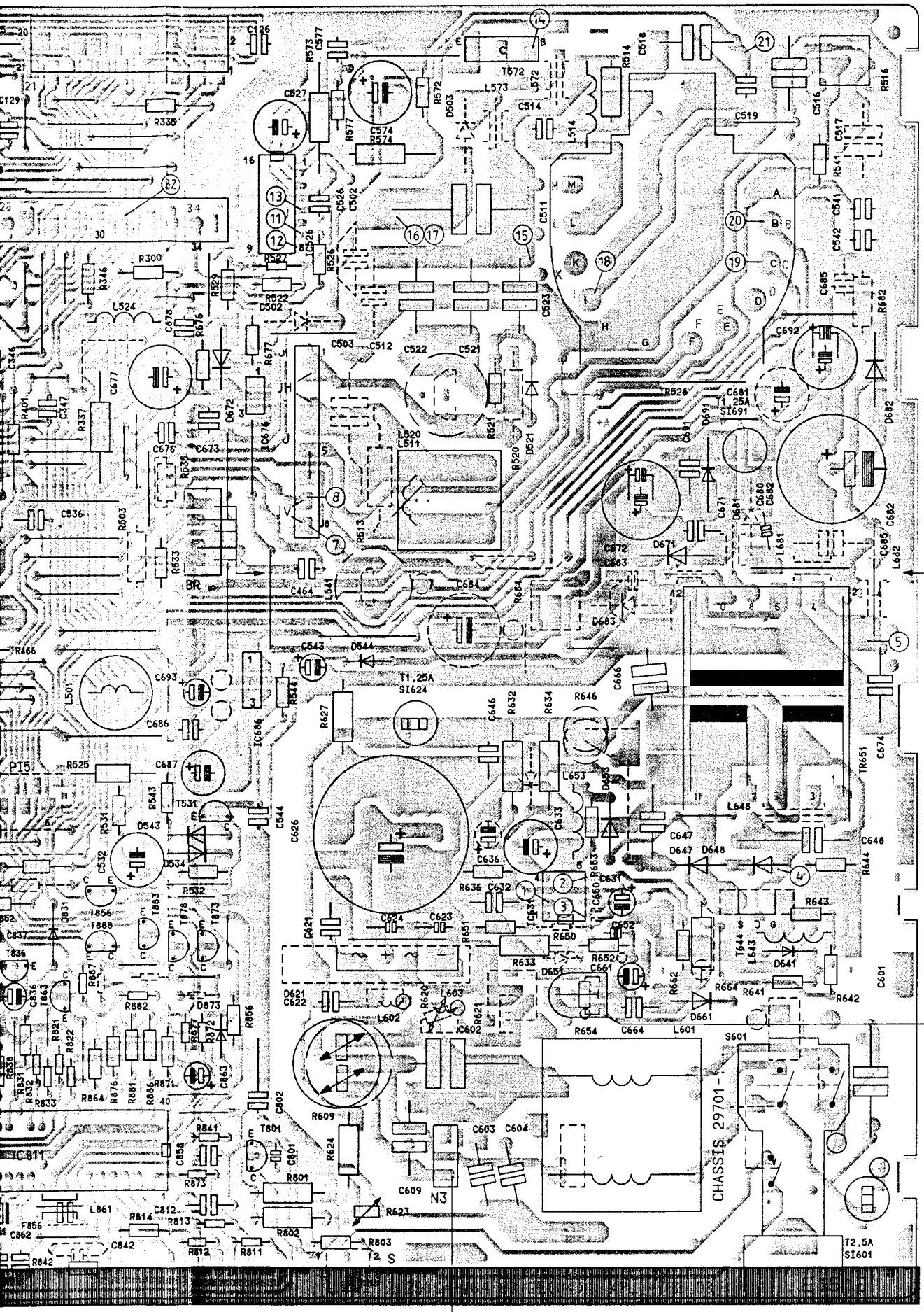
Start-up of the tuner control voltage

1. Feed in a standard test pattern (upper UHF-range, approx. 60 dBµV aerial signal)
2. Turn the control R 341 (IF-Ampl., contact 15) anti-clockwise until noise just begins to appear in the picture. Then turn the control in the reverse direction until the picture just becomes noisefree.

Adjustment of the brigde coil L 511

1. Set the picture width to minimum.
2. Connect one test probe of a twin beam oszilloscope to the collector of transistor T 572
3. Connect the other test probe to the junction of D 502, D 503.
4. Adjust the coil L 511 so that both oscillograms have the same pulse width.


TUNER
29304-764.03/48(04)
K5
ZF / IF
FARB/RGB COLOUR/RGB
VIDEOTEXT / TELETEXT
(EUER GERAETE OHNE VIDEOTEXT)
KURZSCHLUSS-STECKER
BRUECKE (FUER GERAETE OHNE VIDEOTEXT)
O/W
PI1
PI2
PI4
PI5
IC811
IC350
IC411
IC847
IC848
IC804
LL
LR
H
JH
JV
IR
IMP
NI


+C/200V
U LEUCHTPUNKT
U
U
ZUR BILDROHRPLATTE
TO CRT BASE
+A/☼ min
CHASSIS 29701-
ENTMAGNETISIERUNG
DEGAUSSING

(D)

Tuner

Im Reparaturfall ist der Tuner - aus Gründen des umfangreichen Abgleichs - in einer der Servicestellen zu tauschen.

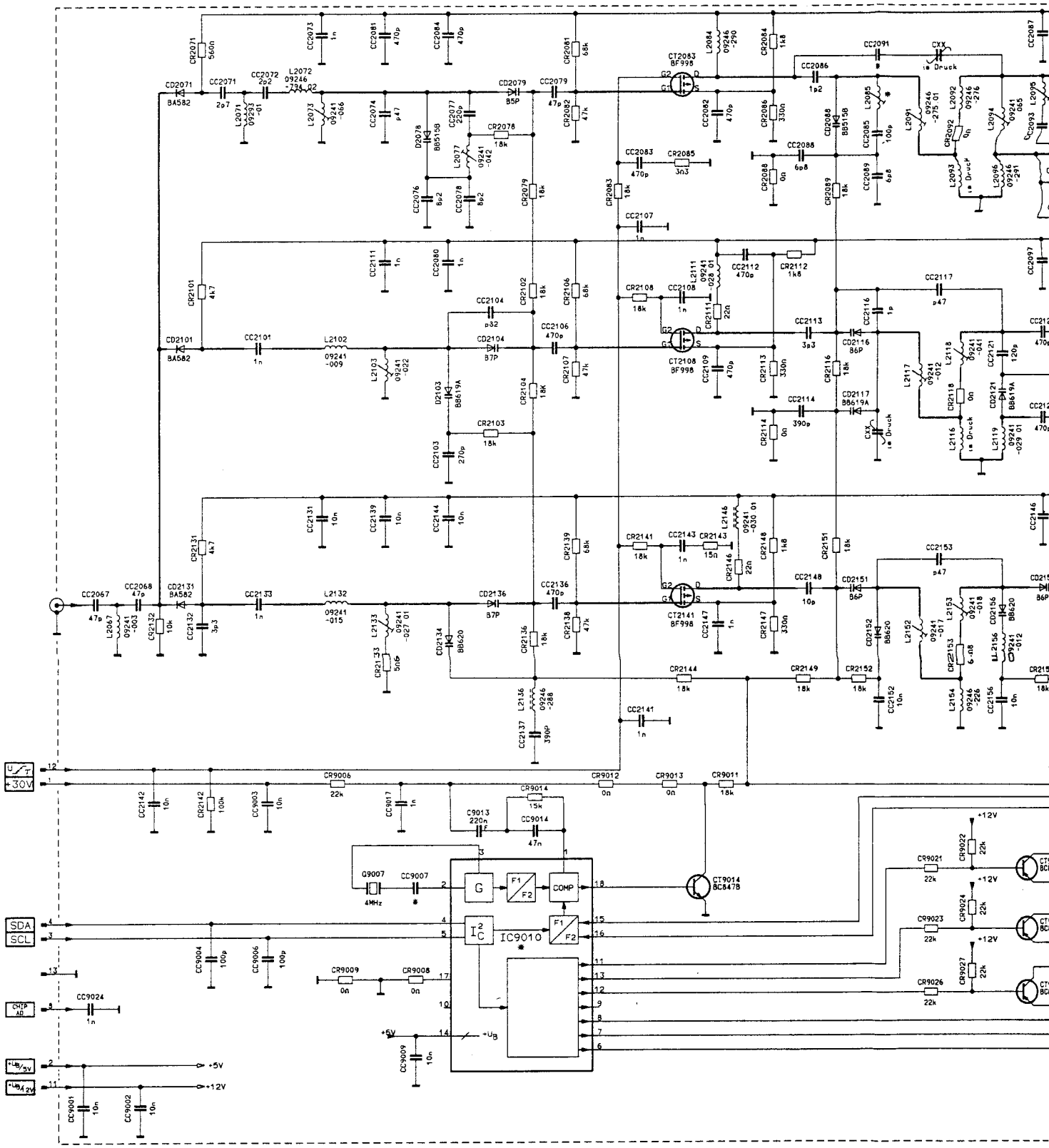
Servicearbeiten nach Bausteinwechsel: keine.

(GB)

Tuner

For reasons of the extensive alignment procedure, it is recommended that a defective tuner module is returned to the Service Organisation to have it exchanged.

Servicing work after replacing the module: none.



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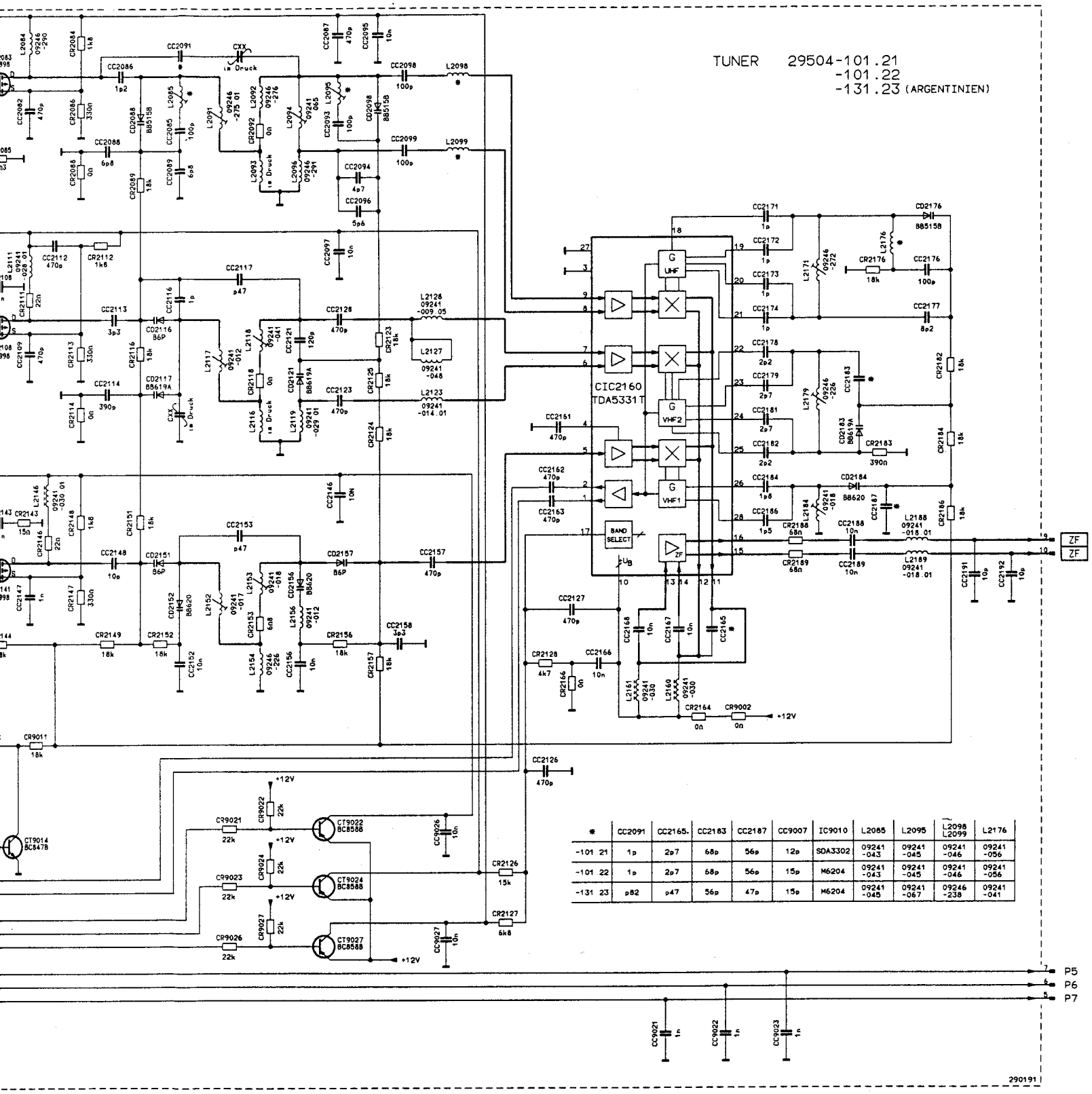
urned to the Service Organisation

e module: none.



*	CC2091	CC2165	CC2183	CC2187	CC9007	IC9010	L2085	L2095	L2098 L2099	L2176
-101 21	1p	2p7	68p	56p	12p	SDA3302	09241 -043	09241 -045	09241 -046	09241 -056
-101 22	1p	2p7	68p	56p	15p	M6204	09241 -043	09241 -045	09241 -046	09241 -056
-131 23	p82	p47	56p	47p	15p	M6204	09241 -045	09241 -067	09246 -238	09241 -041

(D)

Bildrohrplatte

Servicearbeiten nach Bausteinwechsel:

Weißabgleich

1. FuBK-Testbild einspeisen.
2. ◑ min., ☼ nom., ◑ max. einstellen.
3. Regler VG und VB so einstellen, daß keine Verfärbungen in den Grauwerten sichtbar sind.

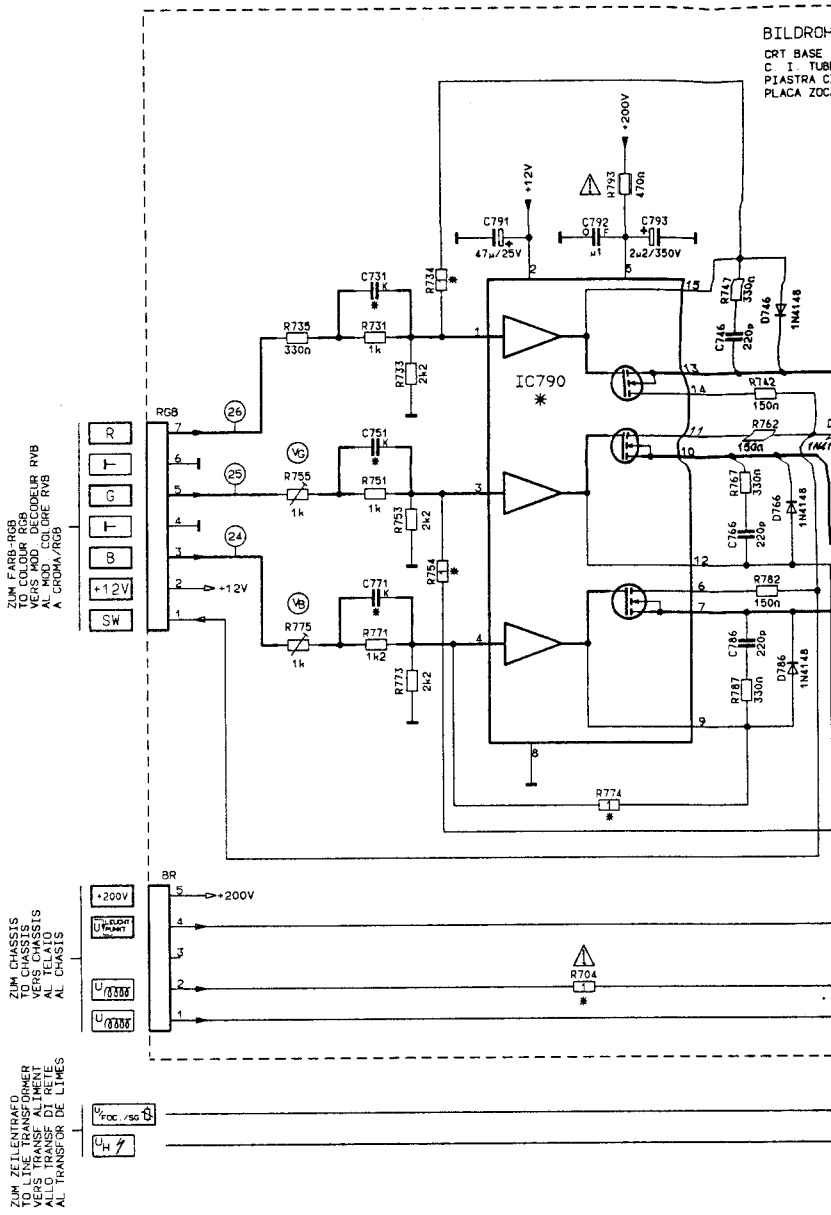
(GB)

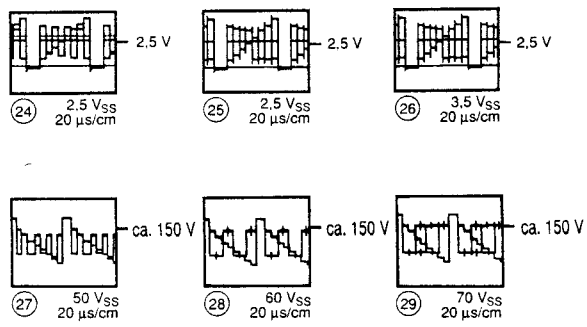
CRT base panel

Servicing work after replacing the module:

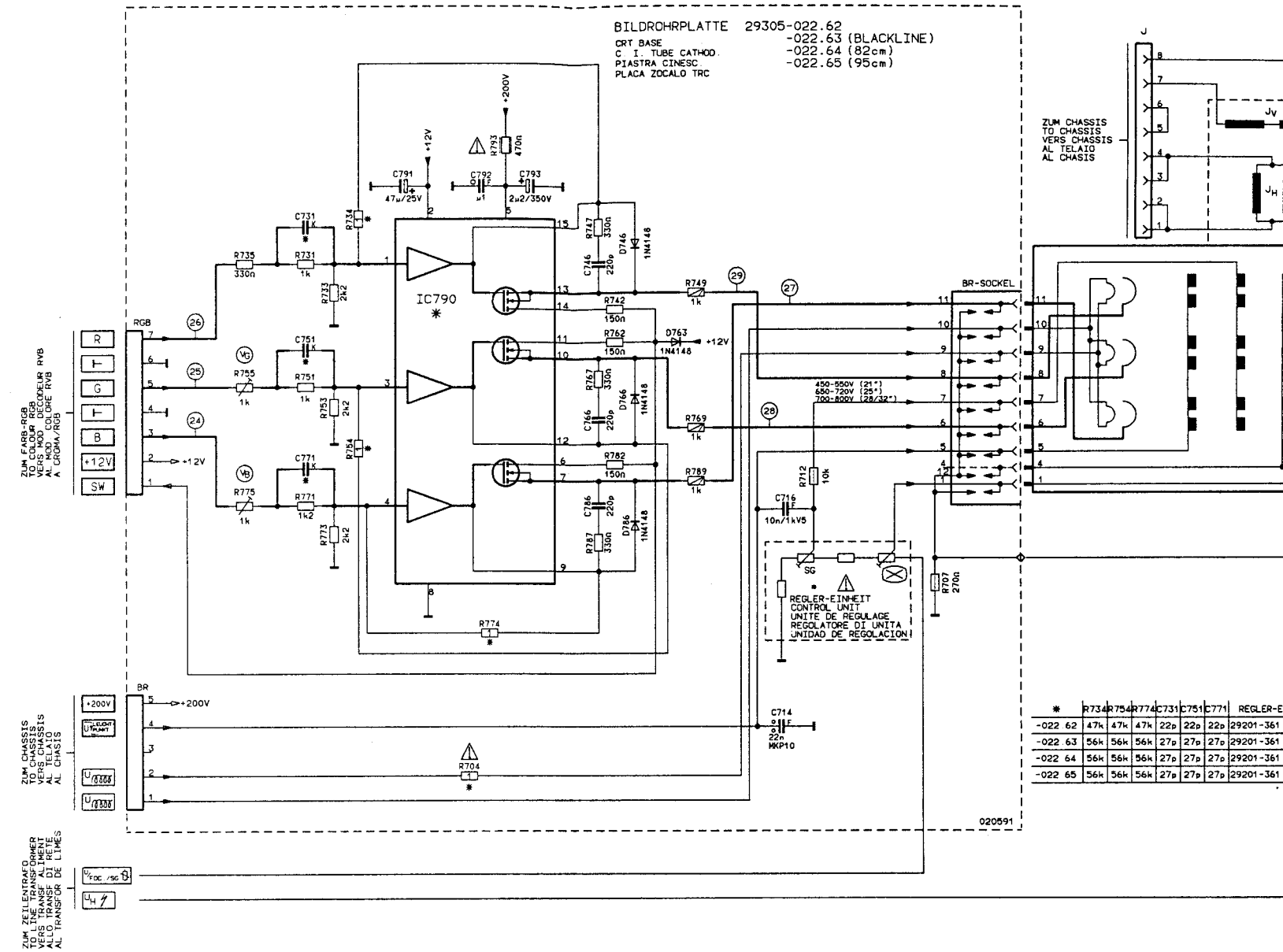
White level adjustment

1. Display colour bar test pattern.
2. Set ◑ to min., ☼ to nom., ◑ to min.
3. Adjust presets VG and VB so that the picture does not show any clouration.

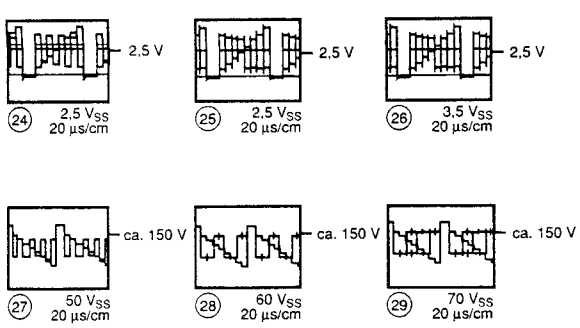


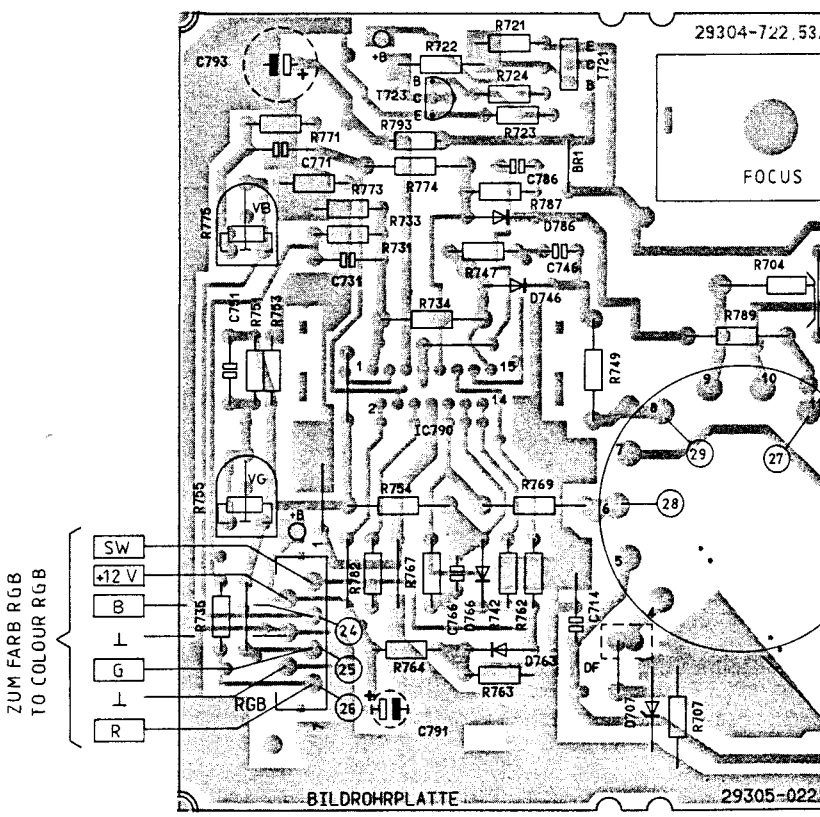


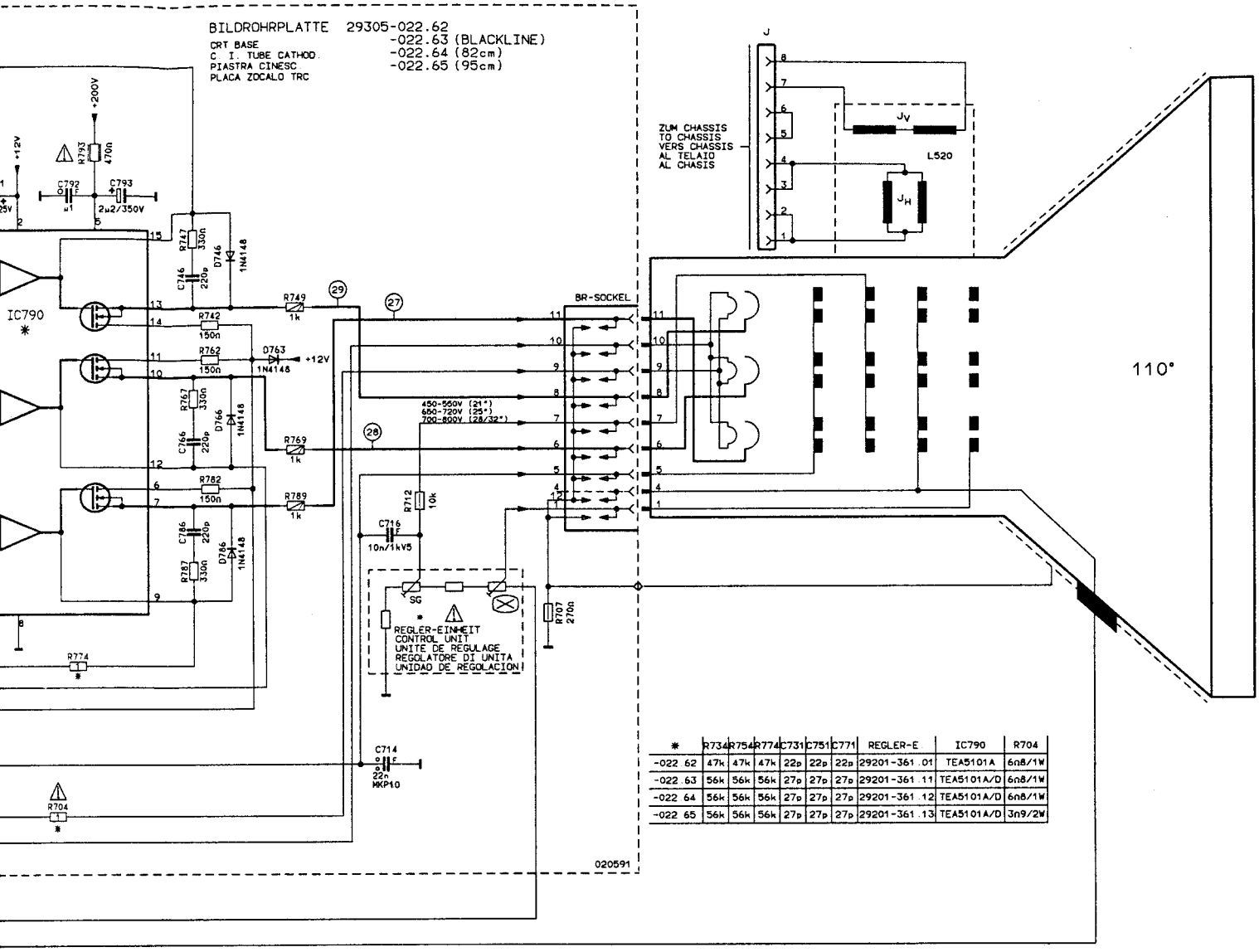
ZUM FARB RGB



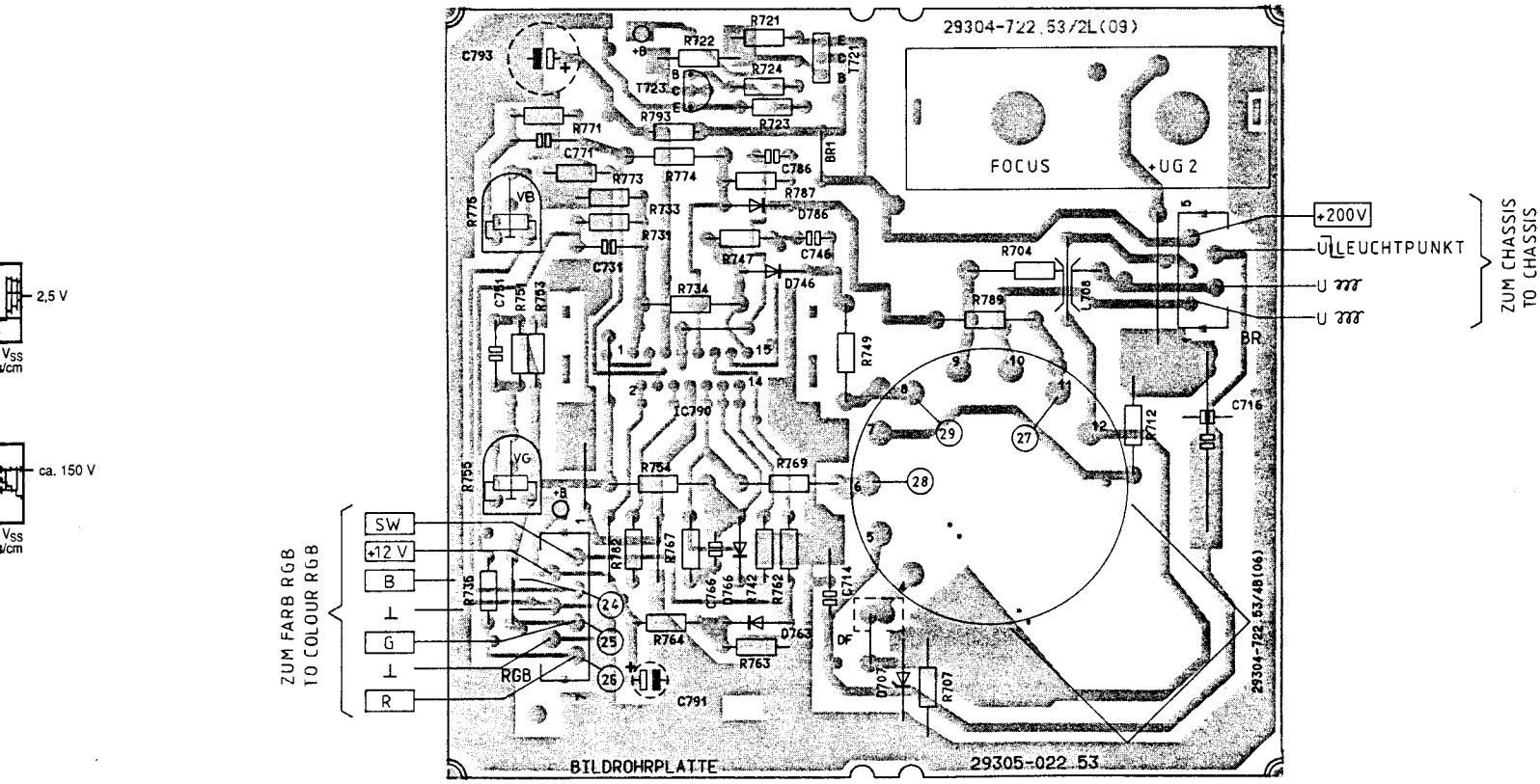
*	R734	R754	R774	C731	C751	C771	REGLER-E
-022 62	47k	47k	47k	22p	22p	22p	29201-361
-022 63	56k	56k	56k	27p	27p	27p	29201-361
-022 64	56k	56k	56k	27p	27p	27p	29201-361
-022 65	56k	56k	56k	27p	27p	27p	29201-361







*	R734	R754	R774	C731	C751	C771	REGLER-E	IC790	R704
-022.62	47k	47k	47k	22p	22p	22p	29201-361.01	TEA5101A	6n8/1W
-022.63	56k	56k	56k	27p	27p	27p	29201-361.11	TEA5101A/D	6n8/1W
-022.64	56k	56k	56k	27p	27p	27p	29201-361.12	TEA5101A/D	6n8/1W
-022.65	56k	56k	56k	27p	27p	27p	29201-361.13	TEA5101A/D	3n9/2W



(D)

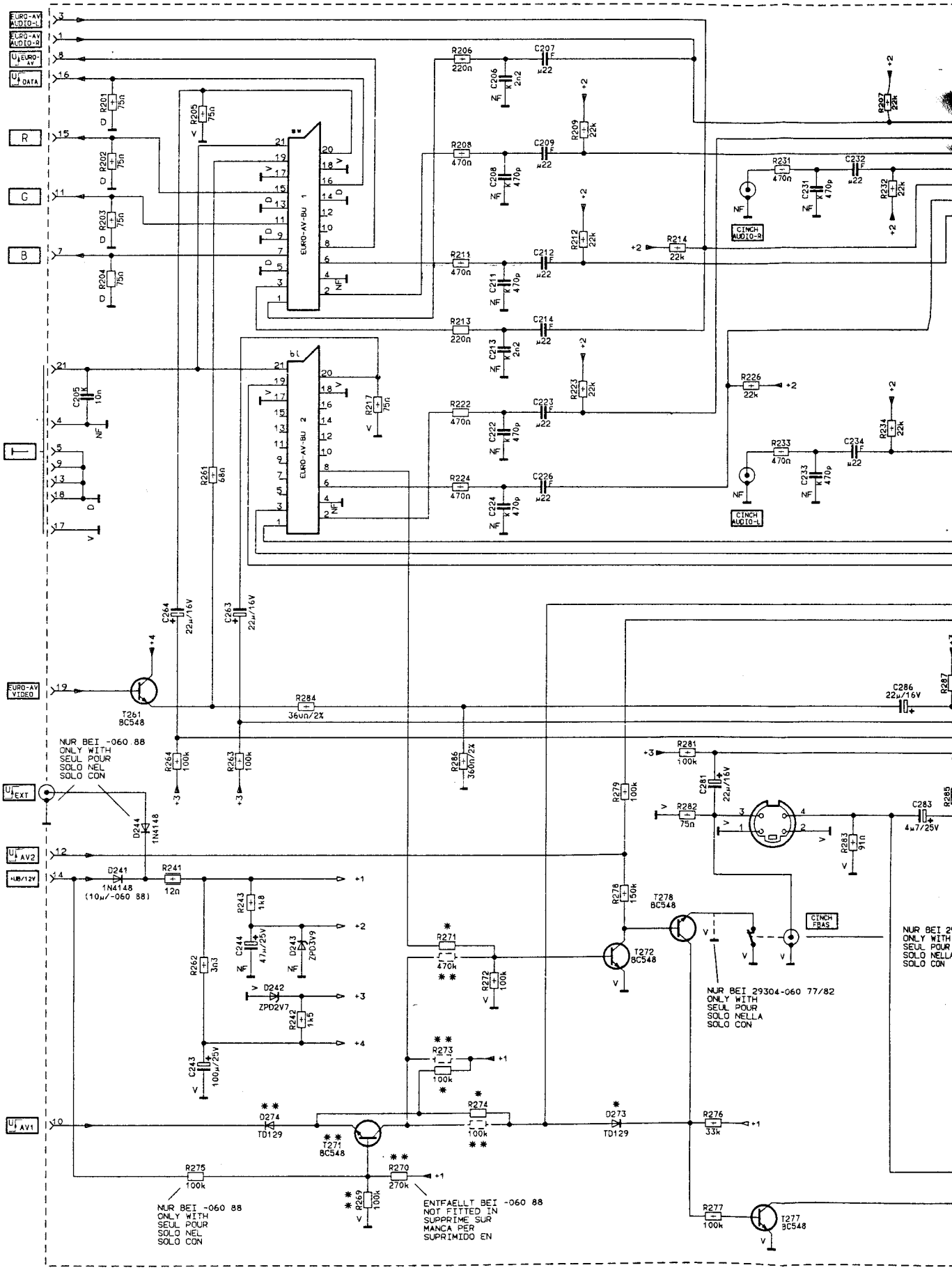
Euro-AV-Buchsenplatte

Servicearbeiten nach Bausteinwechsel: keine.

(GB)

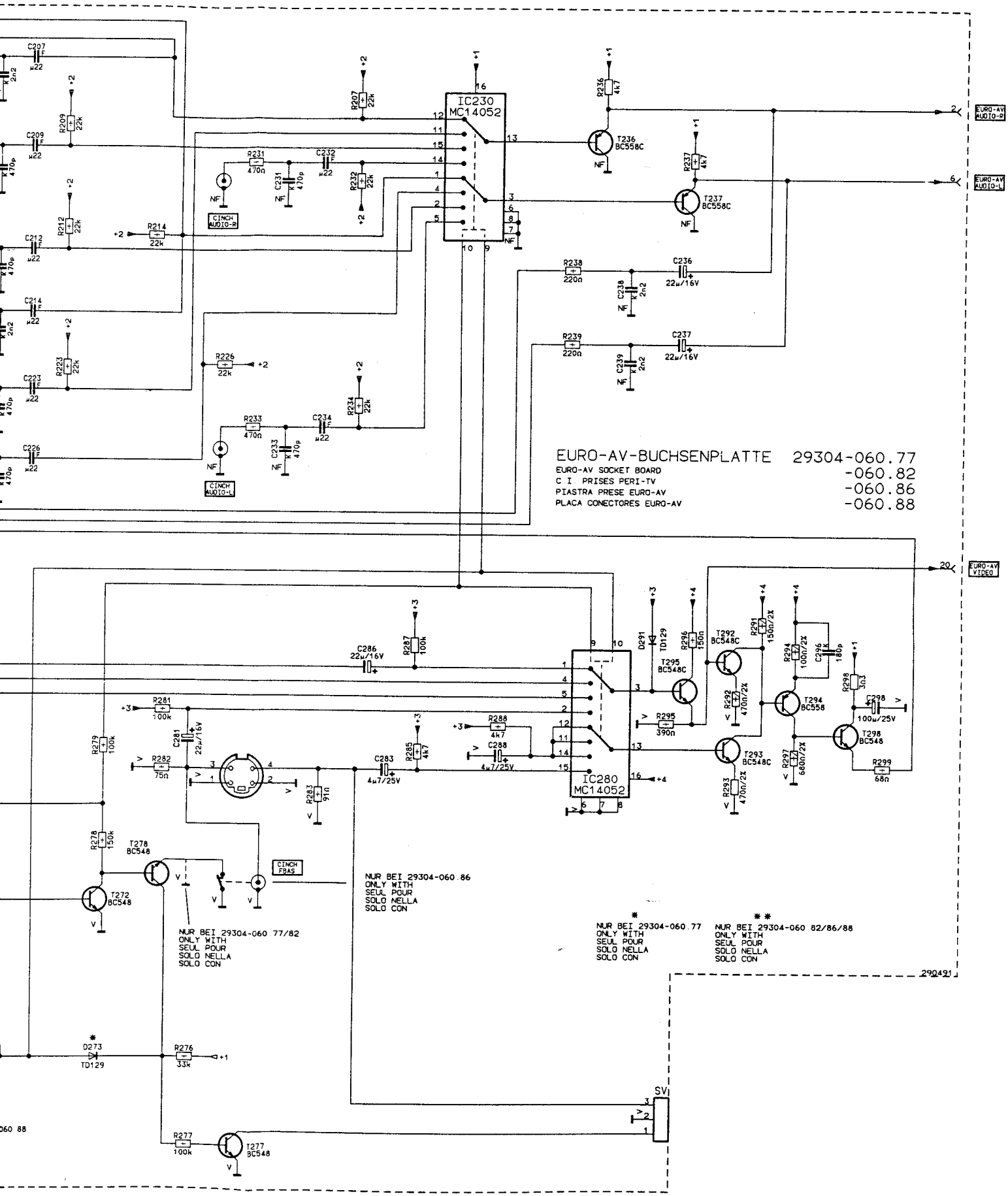
Euro-AV Socket board

Servicing work after replacing the module: none.



t board

placing the module: none.



(D)

ZF-Verstärker

Servicearbeiten nach Bausteinwechsel: keine.

Abgleich des ZF-Verstärkers:

1. Zeilenfrequenz
- Pin 5 des IC 2340 (TDA 2579) nach Masse kurzschließen.
- Mit dem Einstellregler R 2323 das Bild auf langsames Durchlaufen einstellen.
- Kurzschluß entfernen.

2. Zeilenphase:
- Die Bildbreite mit dem Regler R 7002 (Ost/West-Baustein) auf Minimum stellen.
- Mit dem Regler R 2353 den grauen Bildrand symetrisch zum rechten und linken Bildraster einstellen.
- Die Bildbreite (R 7002) wieder nach Testbild einstellen.

(GB)

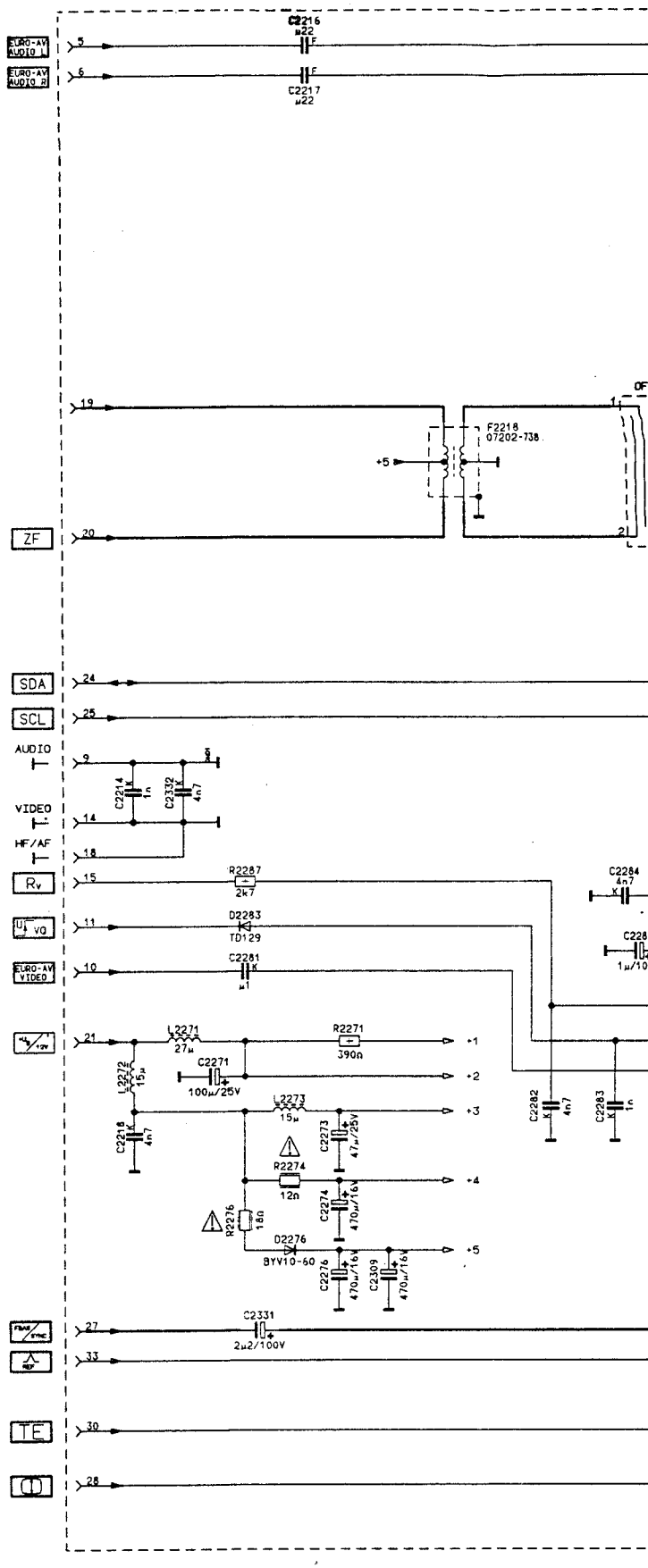
IF Amplifier

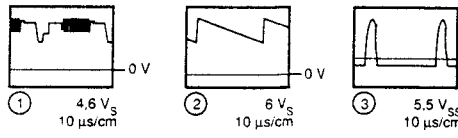
Servicing work after replacing the module: none.

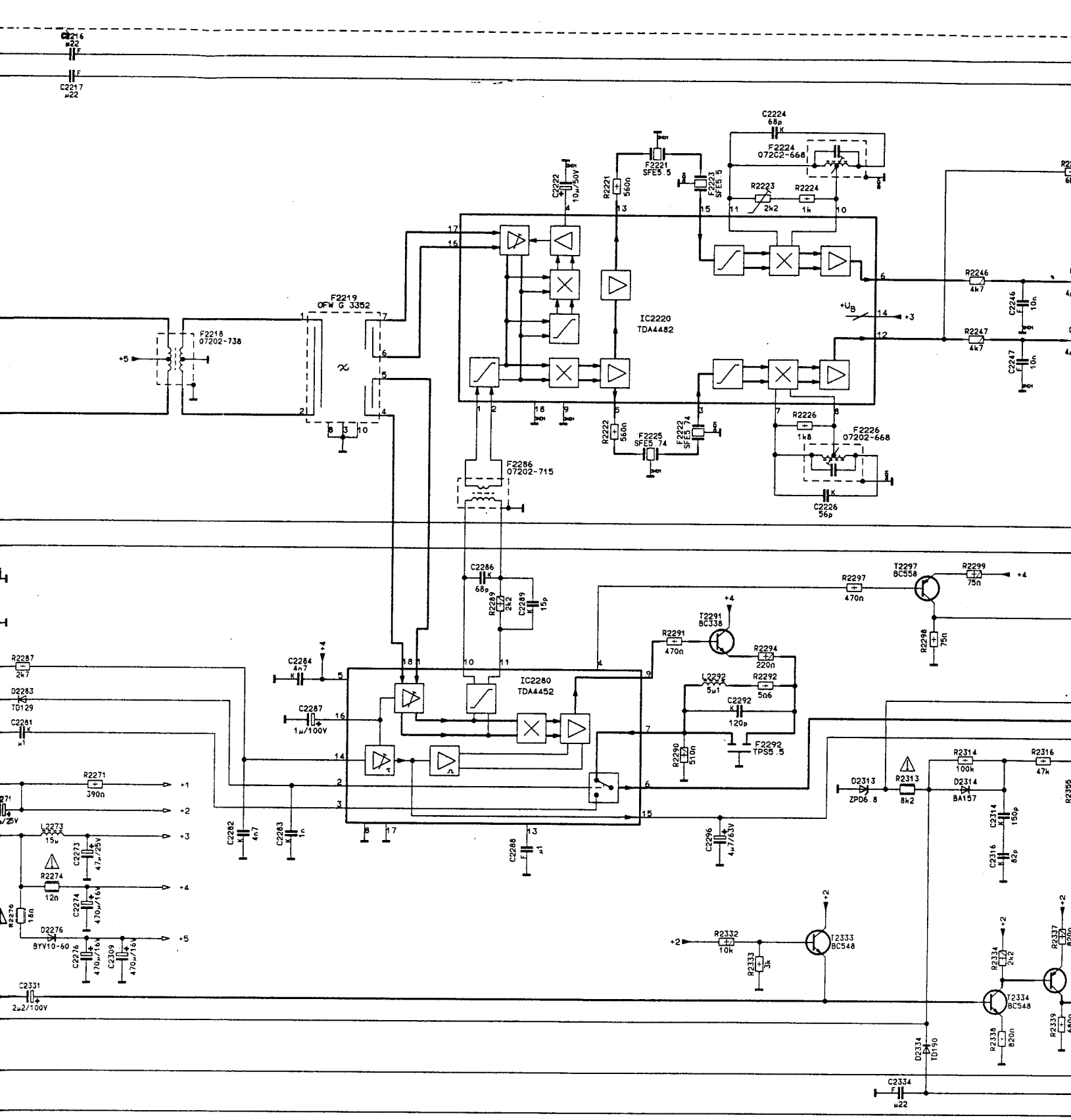
IF Amplifier alignment:

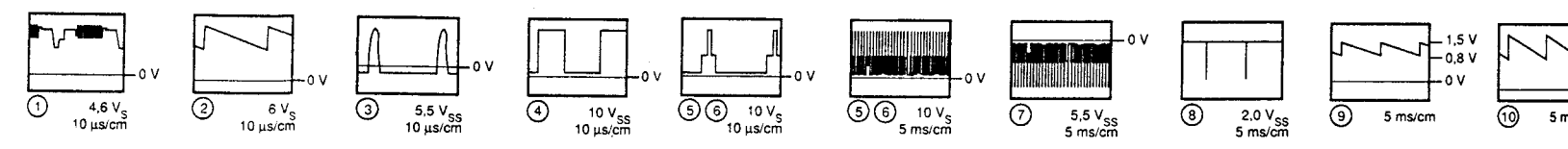
1. Line frequency
- Short circuit Pin 5, IC 2340 (TDA 2579) to chassis.
- With the adjustment control R 2323 adjust so, that the picture runs through slowly.
- Remove the short circuit.

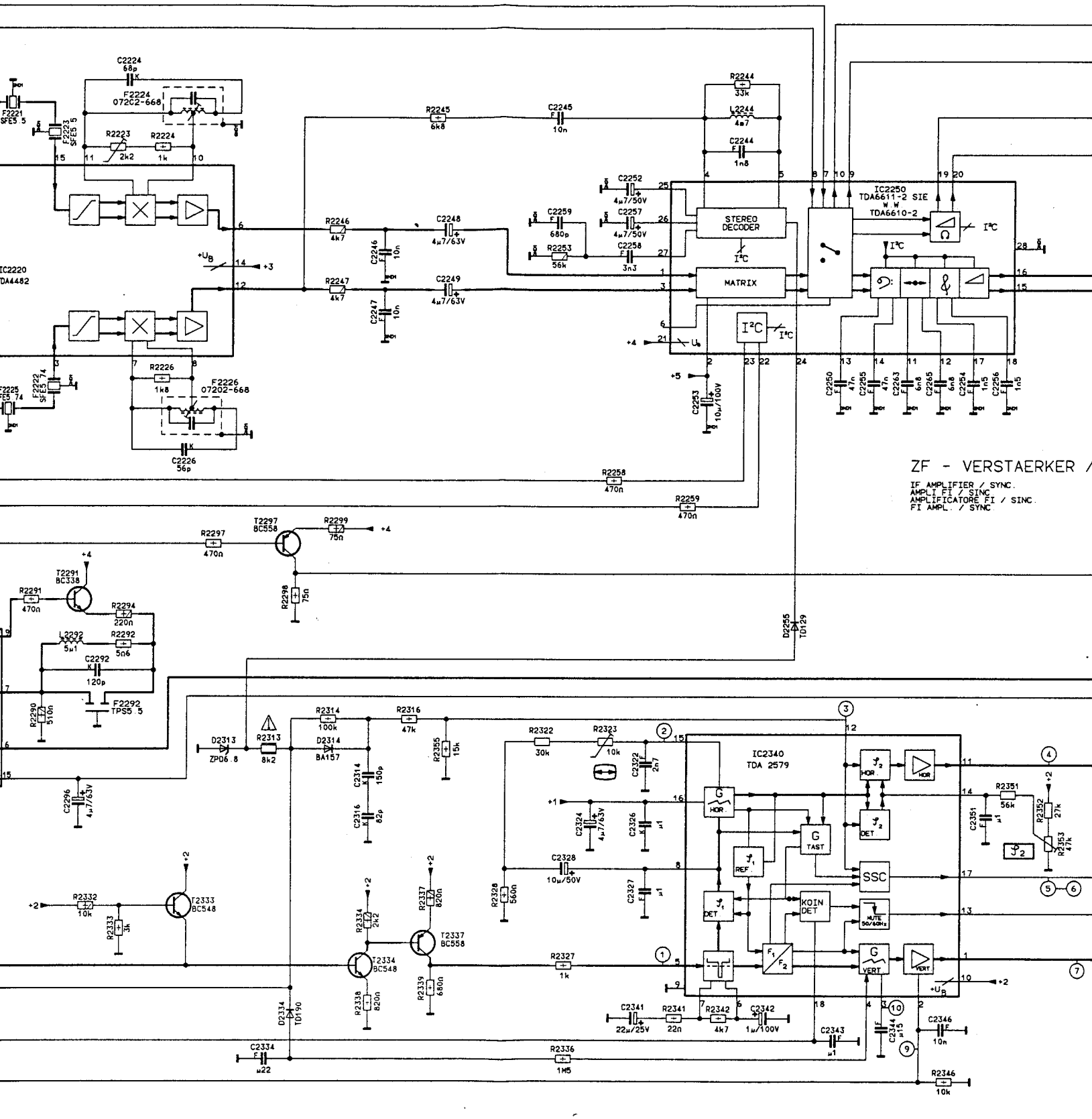
2. Line Phase:
- Set the picture width with the adjustment control R 7002 (East/West module) to minimum.
- With the adjustment control R 2353, set the grey picture edges to be symmetrical within the right and left picture frame.
- Reset the picture width control to conform with the test pattern.

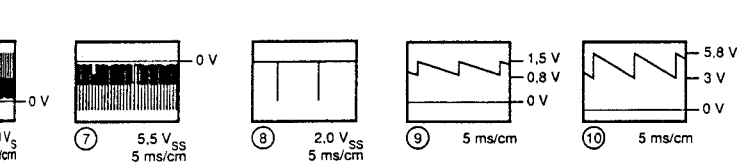


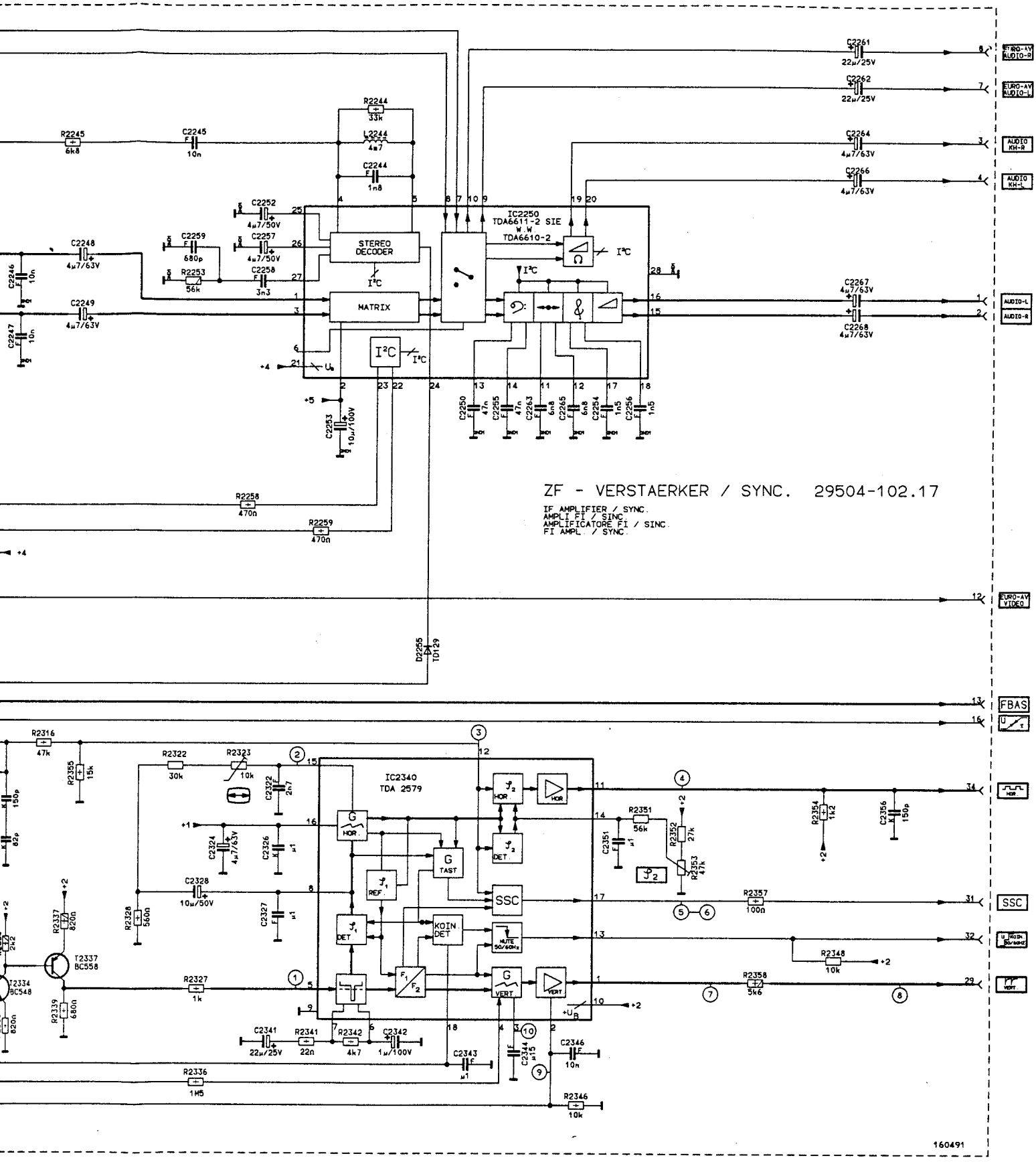


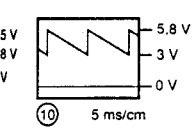

C2216 µ22
C2217 µ22
C2224 68p
F2224 07202-668
F2221 SFE5.5
F2223 SFE5.5
C2222 10µ/50V
R2221 560n
R2223 2k2
R2224 1k
F2219 OFW G 3352
F2218 07202-738
IC2220 TDA4482
+UB
+3
+5
R2246 4k7
R2247 4k7
C2246 10n
C2247 10n
R2222 560n
F2225 SFE5.74
F2222 SFE5.74
R2226 1k8
F2226 07202-668
C2226 56p
F2286 07202-715
C2286 68p
R2289 2k2
C2289 15p
R2297 470n
T2297 BC558
R2299 75n
R2298 75n
T2291 BC338
R2291 470n
R2294 220n
L2292 5µ1
R2292 5n6
C2292 120p
F2292 TPS5.5
R2290 510n
C2284 4n7
C2287 1µ/100V
IC2280 TDA4452
R2287 2k7
D2283 TD129
C2281 µ1
R2271 390n
L2273 15µ
C2273 47µ/25V
R2274 12n
C2274 470µ/16V
D2276 BYV10-60
C2276 470µ/16V
C2309 470µ/16V
C2331 2µ2/100V
C2282 4n7
C2283 µ1
C2288 µ1
C2296 4µ7/63V
R2314 100k
R2316 47k
R2313 8k2
D2313 ZPD6.8
D2314 BA157
C2314 150p
C2316 82p
R2332 10k
R2333 3k
T2333 BC548
R2334 2k2
T2334 BC548
R2338 820n
R2339
R2337
D2334 TD190
C2334 µ22
+1
+2
+3
+4
+5


0 V
① 4,6 V_S 10 µs/cm
② 6 V_S 10 µs/cm
③ 5,5 V_{SS} 10 µs/cm
④ 10 V_{SS} 10 µs/cm
⑤⑥ 10 V_S 10 µs/cm
⑤⑥ 10 V_S 5 ms/cm
⑦ 5,5 V_{SS} 5 ms/cm
⑧ 2,0 V_{SS} 5 ms/cm
⑨ 1,5 V 0,8 V 0 V 5 ms/cm
⑩ 5 m


ZF - VERSTAERKER /
IF AMPLIFIER / SYNC.
AMPLI FI / SINC.
AMPLIFICATORE FI / SINC.
FI AMPL. / SYNC.
IC2250
TDA6611-2 SIE
TDA6610-2
STEREO DECODER
MATRIX
IC2340
TDA 2579
IC2220
TDA4482


0 V
5,5 V$_{SS}$
5 ms/cm
2,0 V$_{SS}$
5 ms/cm
1,5 V
0,8 V
0 V
5 ms/cm
5,8 V
3 V
0 V
5 ms/cm


ZF - VERSTAERKER / SYNC. 29504-102.17
IF AMPLIFIER / SYNC.
AMPLI FI / SINC.
AMPLIFICATORE FI / SINC.
FI AMPL. / SYNC.
IC2250
TDA6611-2 SIE
W.W.
TDA6610-2
STEREO DECODER
MATRIX
IC2340
TDA 2579
EURO-AV AUDIO-R
EURO-AV AUDIO-L
AUDIO KH-R
AUDIO KH-L
AUDIO-L
AUDIO-R
EURO-AV VIDEO
FBAS
SSC
160491

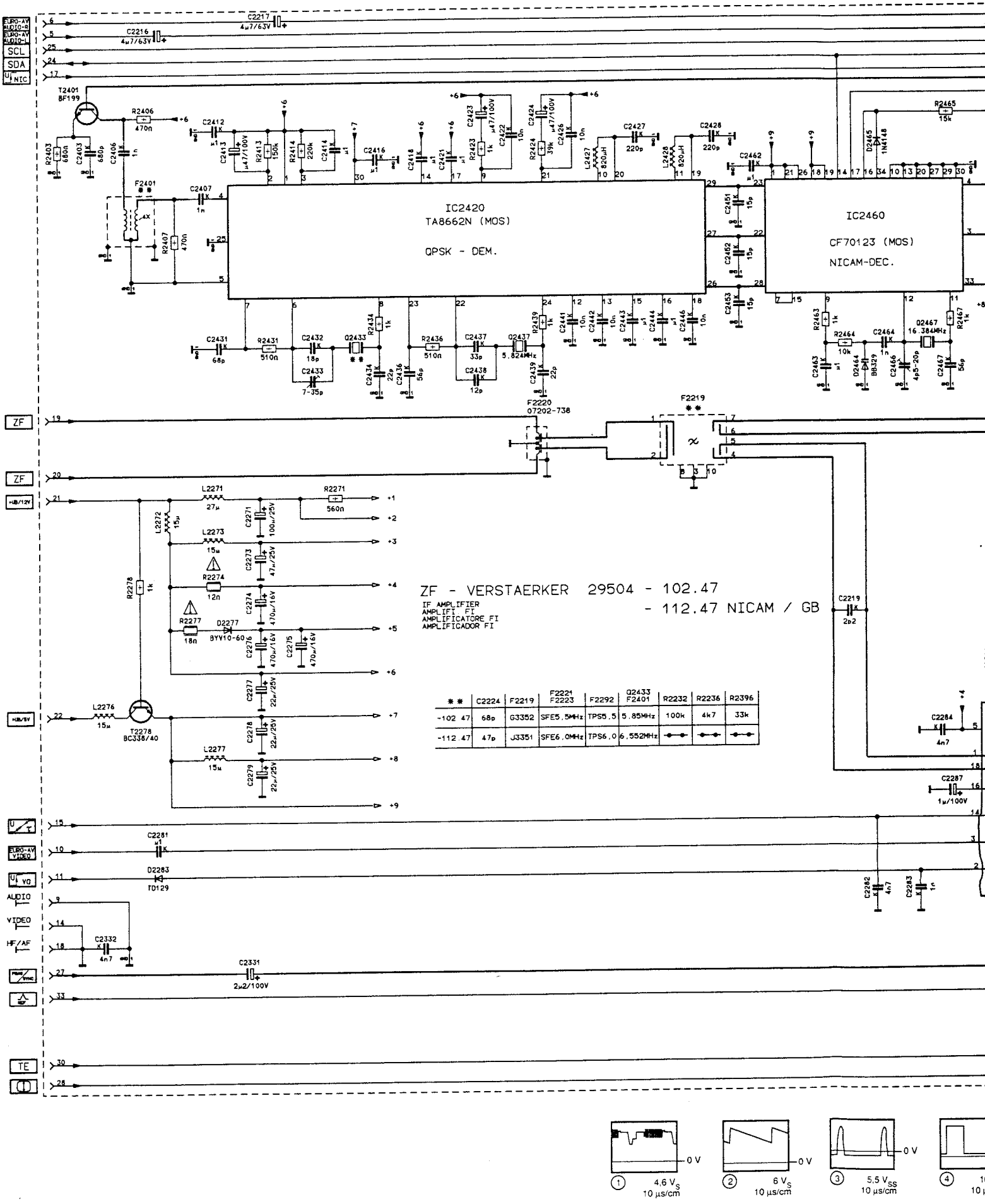

5,8 V
3 V
0 V
5 ms/cm

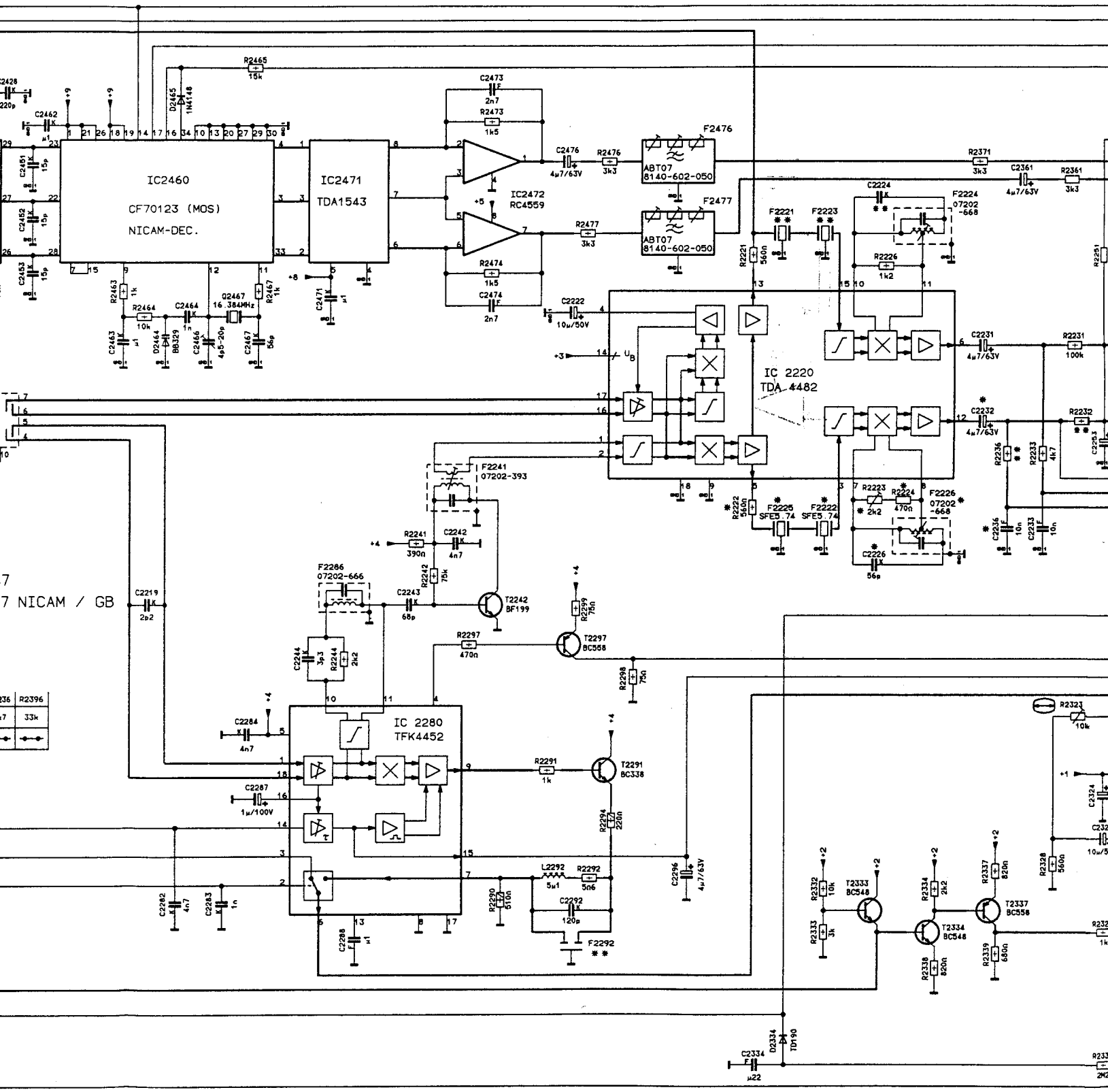
(D)

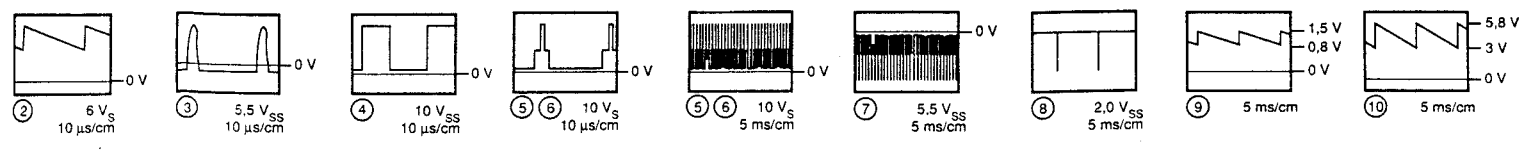
ZF-Verstärker

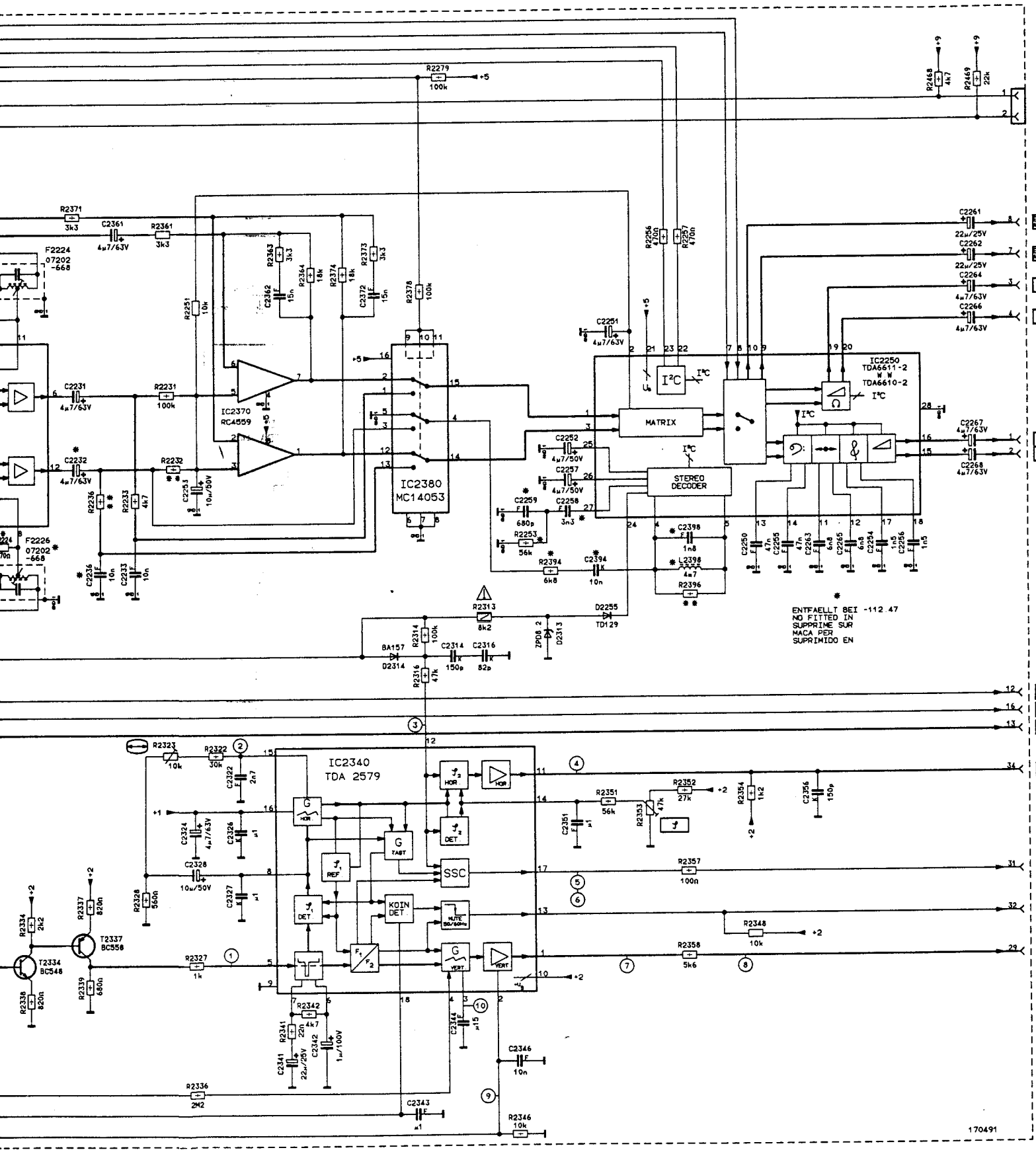
(GB)

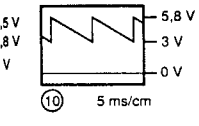
IF Amplifier




IC2460
CF70123 (MOS)
NICAM-DEC.
IC2471
TDA1543
IC2472
RC4559
IC 2220
TDA 4482
IC 2280
TFK4452
7 NICAM / GB


0 V
6 V$_S$ 10 µs/cm
5,5 V$_{SS}$ 10 µs/cm
10 V$_{SS}$ 10 µs/cm
10 V$_S$ 10 µs/cm
10 V$_S$ 5 ms/cm
5,5 V$_{SS}$ 5 ms/cm
2,0 V$_{SS}$ 5 ms/cm
5 ms/cm
1,5 V
0,8 V
5 ms/cm
5,8 V
3 V


IC2340
TDA 2579
IC2380
MC14053
IC2370
RC4559
IC2250
TDA6611-2
W W
TDA6610-2
MATRIX
STEREO
DECODER
I²C
SSC
HOR
VERT
DET
REF
KOIN
DET
MUTE
50/60Hz
ENTFAELLT BEI -112.47
NO FITTED IN
SUPPRIME SUR
MACA PER
SUPRIMIDO EN
EURO-AV
AUDIO-R
EURO-AV
AUDIO-L
AUDIO
KH-R
AUDIO
KH-L
AUDIO-L
AUDIO-R
EURO-AV
VIDEO
FBAS
170491


5,8 V
3 V
0 V
10
5 ms/cm

(D)

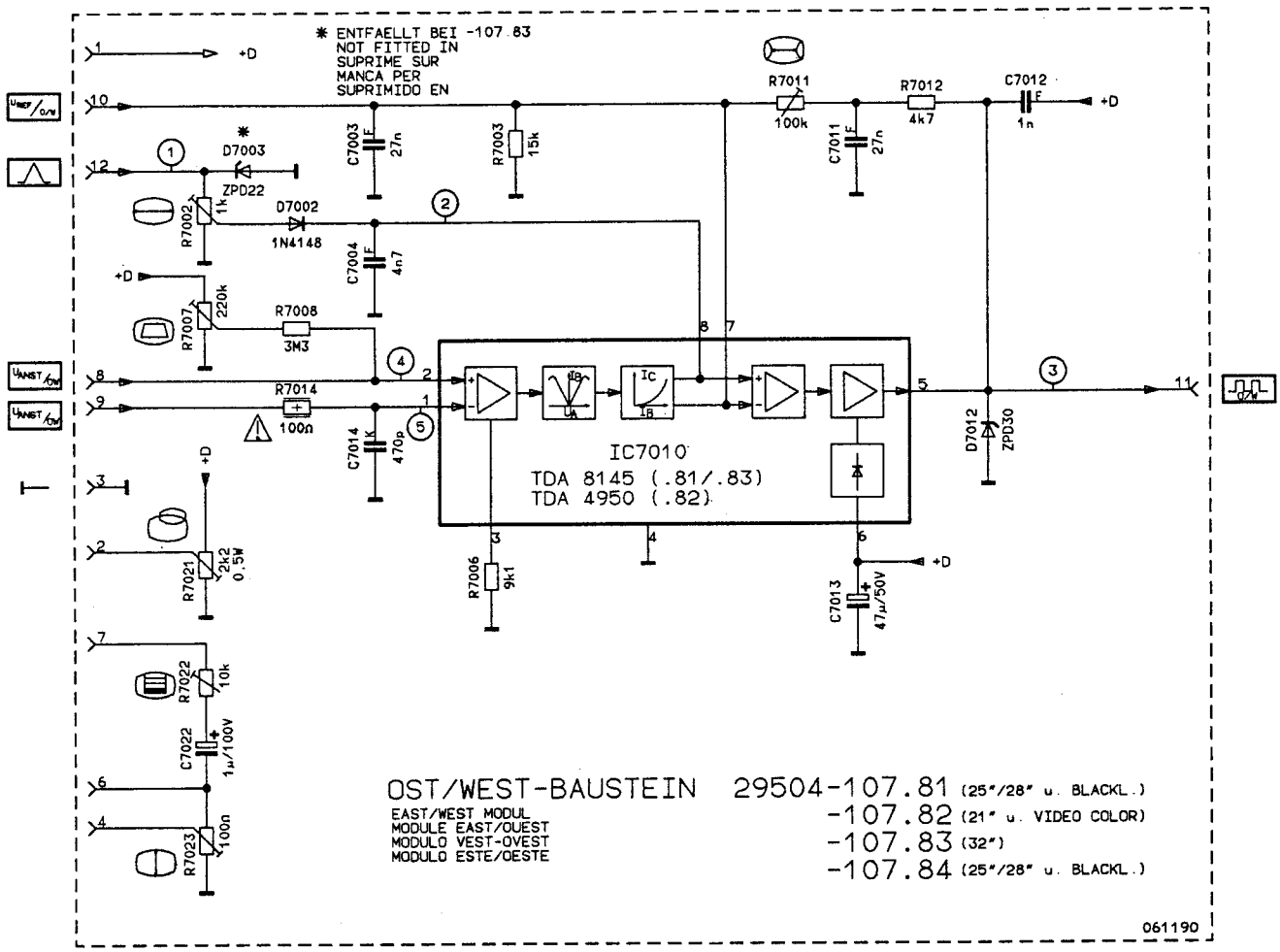
Ost/West Baustein

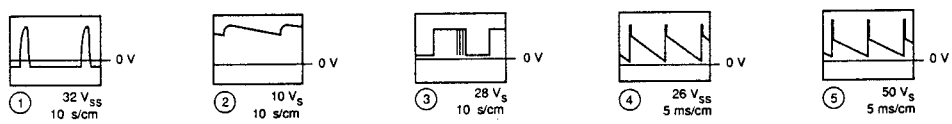
Servicearbeiten nach Bausteinwechsel:
Einstellung der Bildgeometrie.

(GB)

East/West module

Servicing work after replacing the module:
Adjustment of the picture geometry.



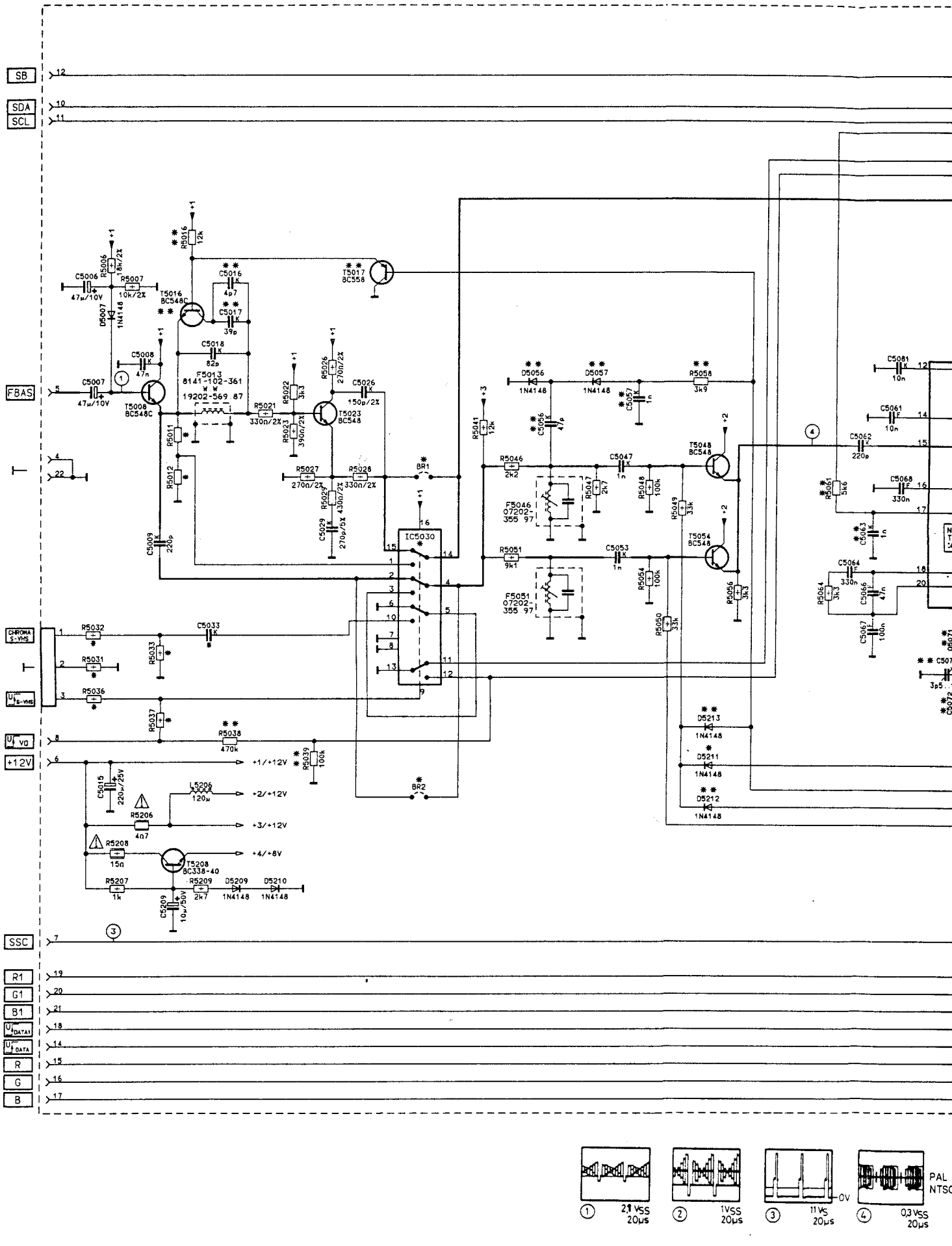


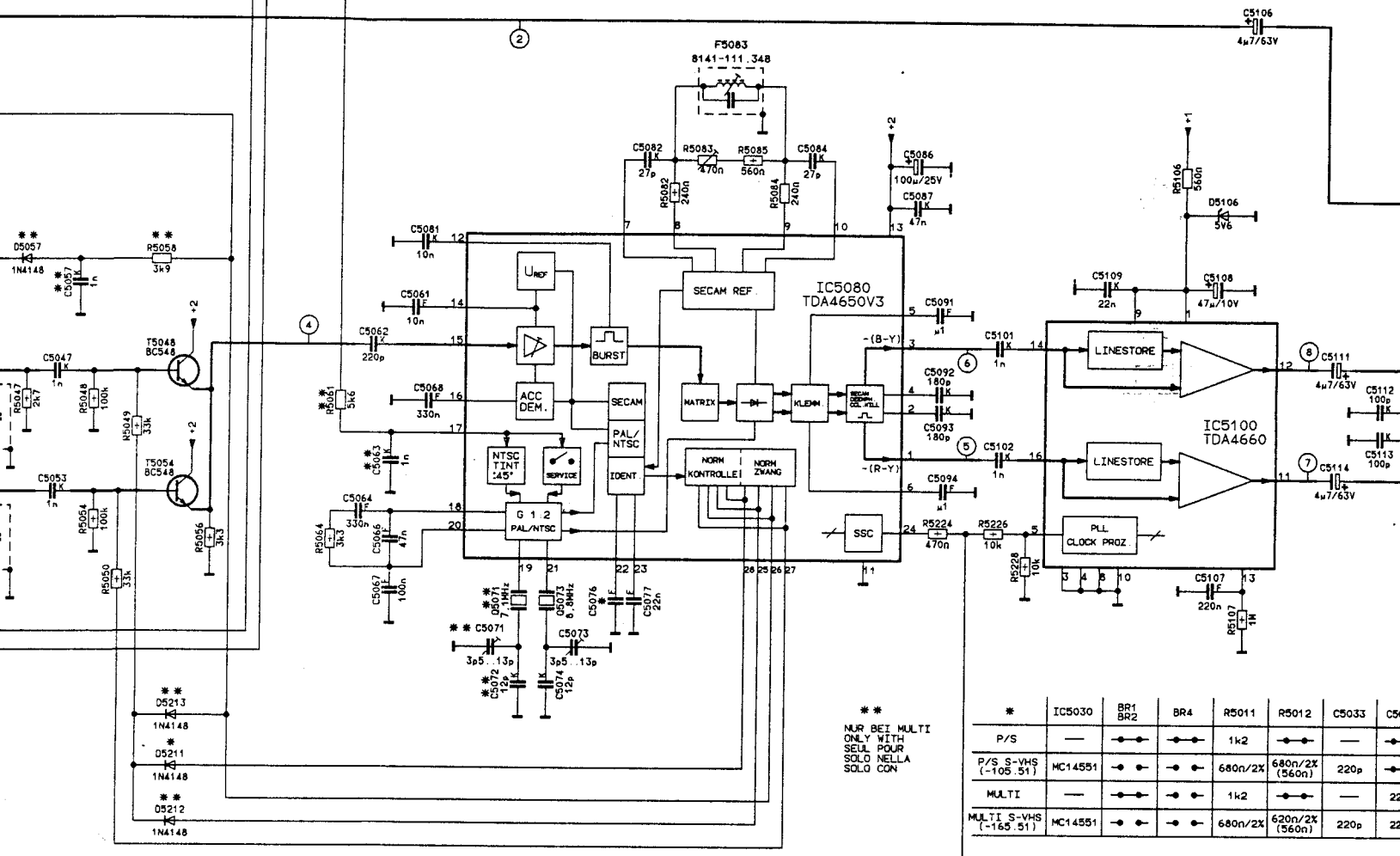
(D)

Farb/RGB

(GB)

Colour/RGB





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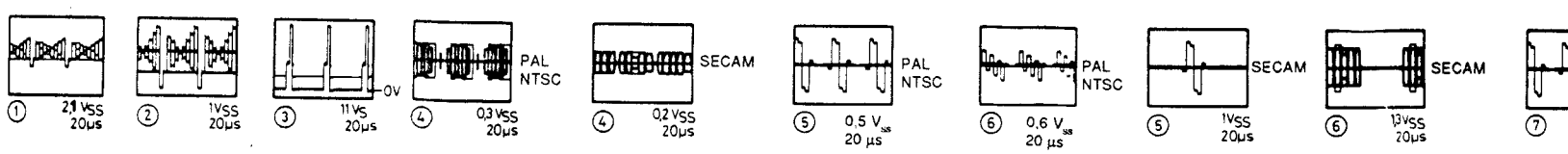
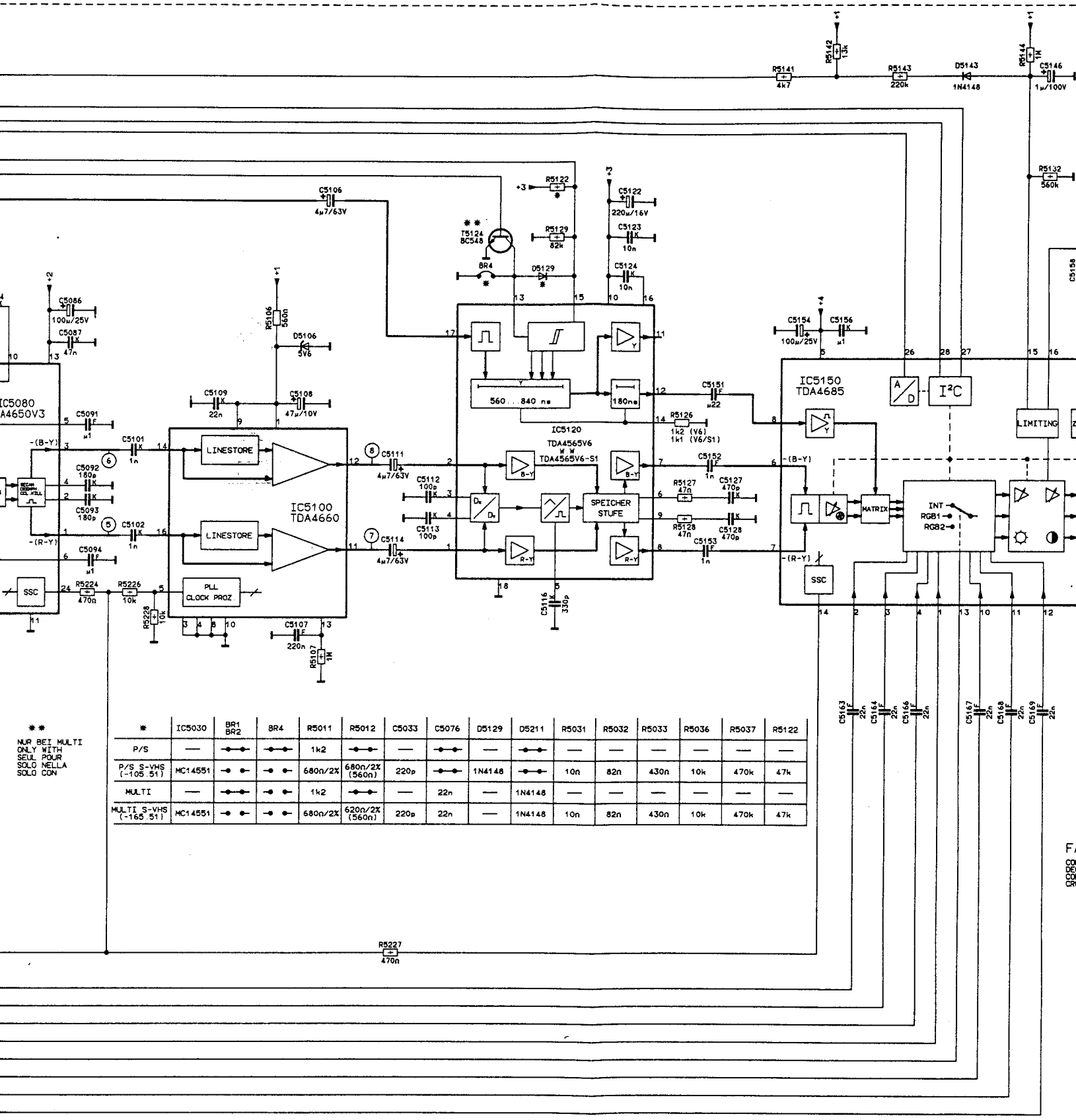
SEUL POUR
SOLO NELLA
SOLO CON

*	IC5030	BR1 BR2	BR4	R5011	R5012	C5033	C5
P/S	—	●—●	●—●	1k2	●—●	—	
P/S S-VHS (-105.51)	MC14551	● ●	● ●	680n/2%	680n/2% (560n)	220p	
MULTI	—	●—●	● ●	1k2	●—●	—	22
MULTI S-VHS (-165.51)	MC14551	● ●	● ●	680n/2%	620n/2% (560n)	220p	22





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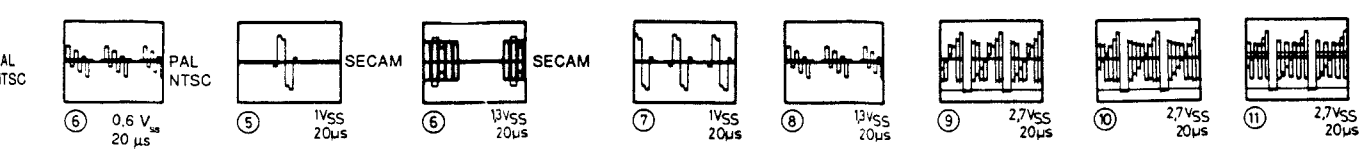
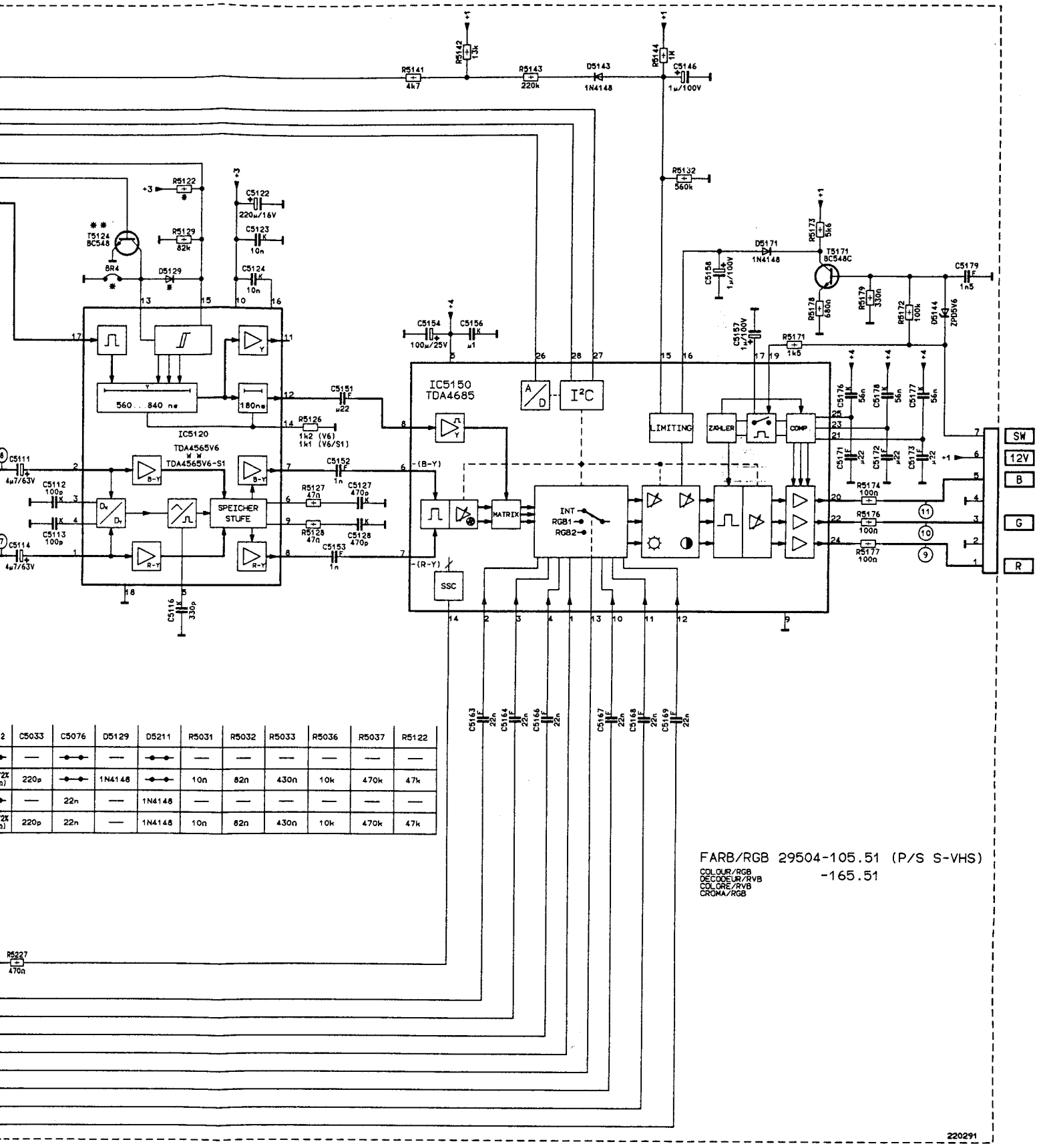
*	IC5030	BR1 BR2	BR4	R5011	R5012	C5033	C5076	D5129	D5211	R5031	R5032	R5033	R5036	R5037	R5122
P/S	—	●—●	●—●	1k2	●—●	—	●—●	—	●—●	—	—	—	—	—	—
P/S S-VHS (-105.51)	MC14551	● ●	● ●	680Ω/2%	680Ω/2% (560Ω)	220p	●—●	1N4148	●—●	10n	82n	430Ω	10k	470k	47k
MULTI	—	●—●	● ●	1k2	●—●	—	22n	—	1N4148	—	—	—	—	—	—
MULTI S-VHS (-165.51)	MC14551	● ●	● ●	680Ω/2%	620Ω/2% (560Ω)	220p	22n	—	1N4148	10n	82n	430Ω	10k	470k	47k



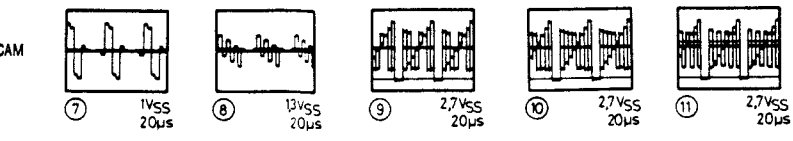


	C5033	C5076	D5129	D5211	R5031	R5032	R5033	R5036	R5037	R5122
	—	—	—	—	—	—	—	—	—	—
	220p	—	1N4148	—	10n	82n	430n	10k	470k	47k
	—	22n	—	1N4148	—	—	—	—	—	—
	220p	22n	—	1N4148	10n	82n	430n	10k	470k	47k

FARB/RGB 29504-105.51 (P/S S-VHS)
-165.51

COLOUR/RGB
DECODEUR/RVB
COLORE/RVB
CROMA/RGB

220291

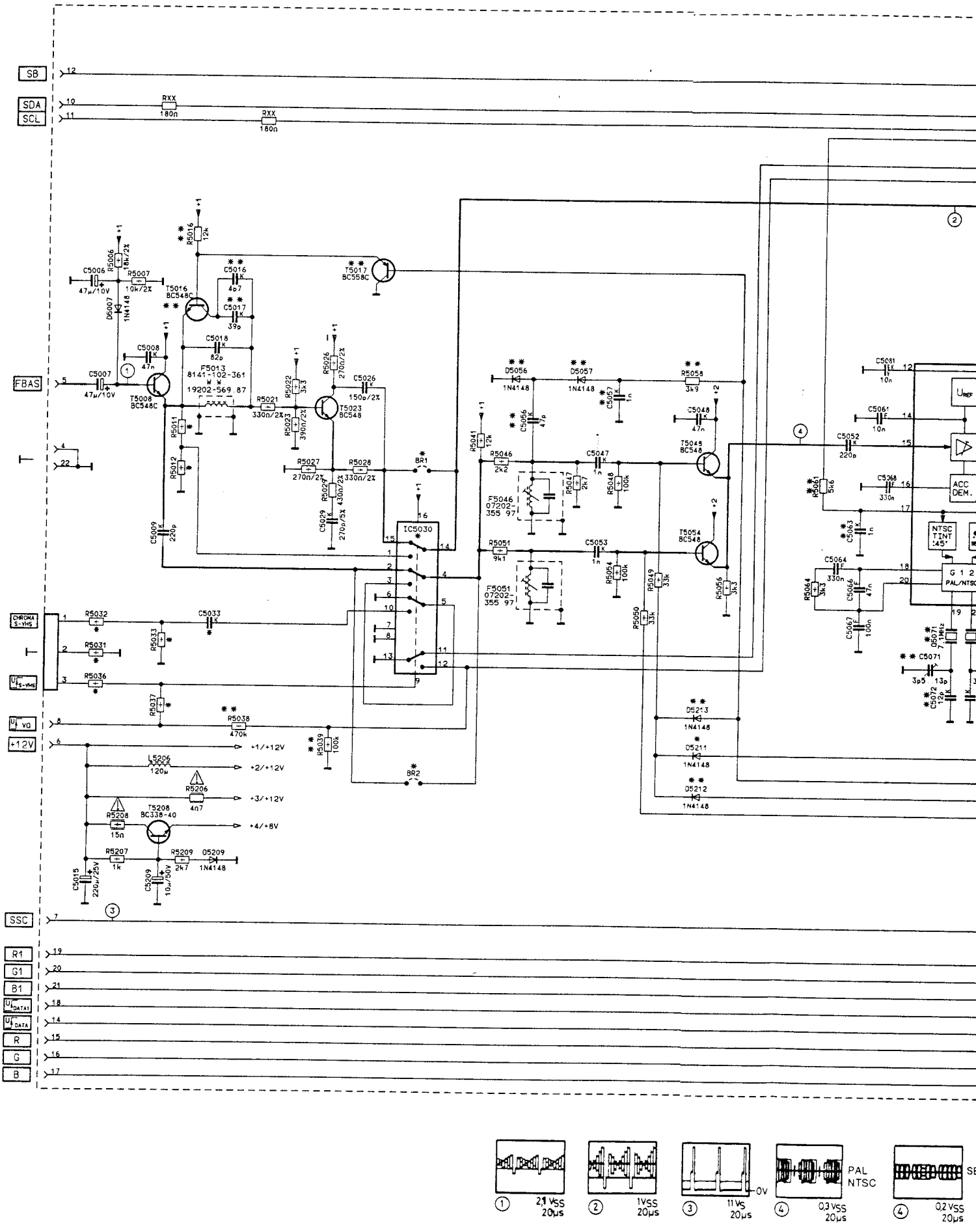


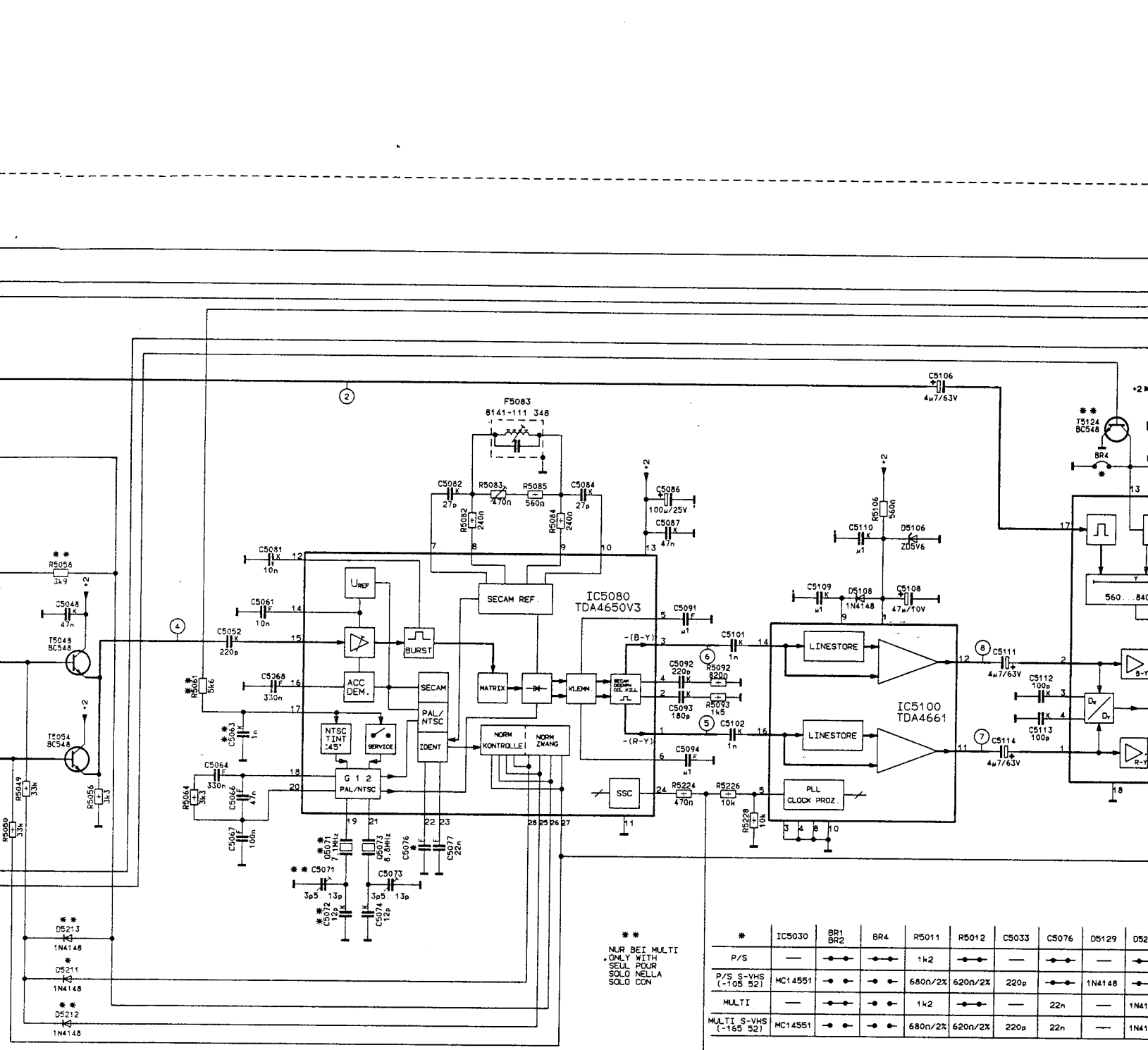
(D)

Farb/RGB

(GB)

Colour/RGB





*	IC5030	BR1 BR2	BR4	R5011	R5012	C5033	C5076	D5129	D52
P/S	—	●—●	●—●	1k2	●—●	—	●—●	—	●—
P/S S-VHS (-705 52)	MC14551	● ●	● ●	680Ω/2%	620Ω/2%	220p	●—●	1N4148	●—
MULTI	—	●—●	● ●	1k2	●—●	—	22n	—	1N41
MULTI S-VHS (-165 52)	MC14551	● ●	● ●	680Ω/2%	620Ω/2%	220p	22n	—	1N41

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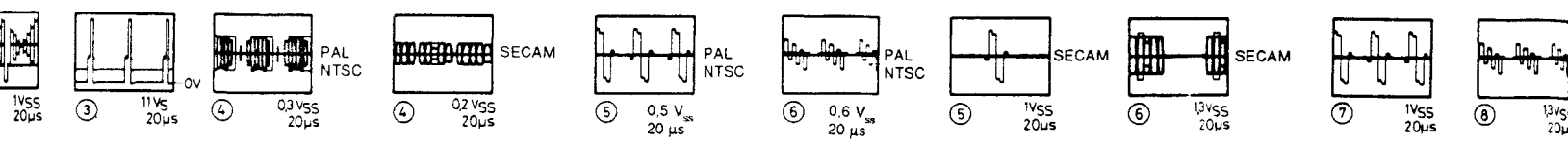
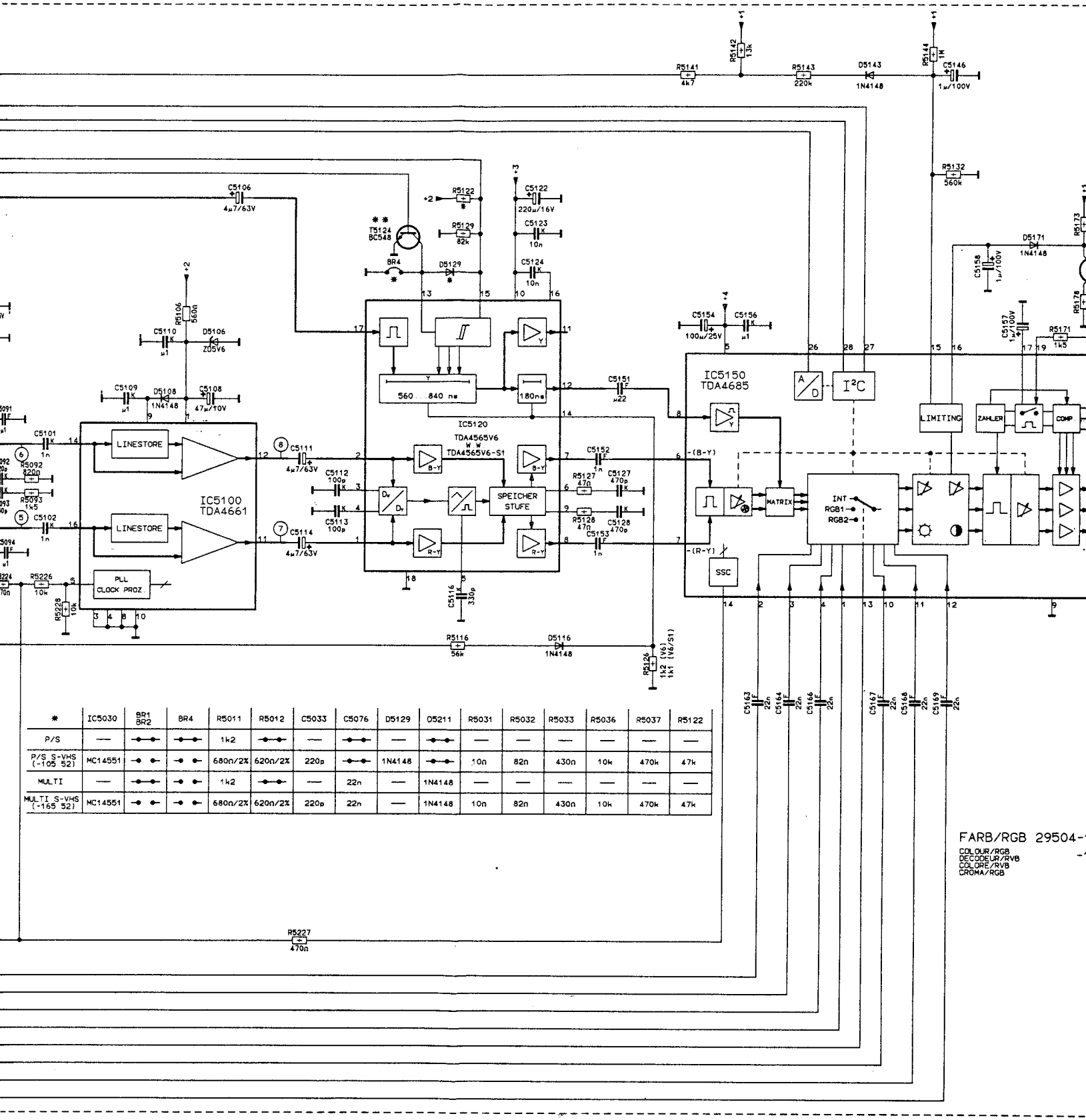
SOLO CON

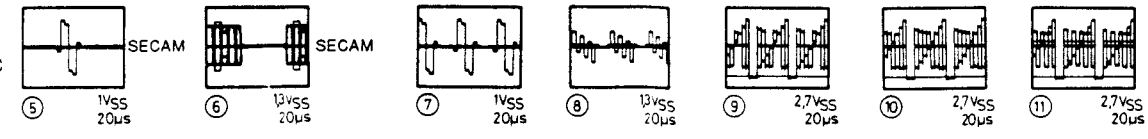


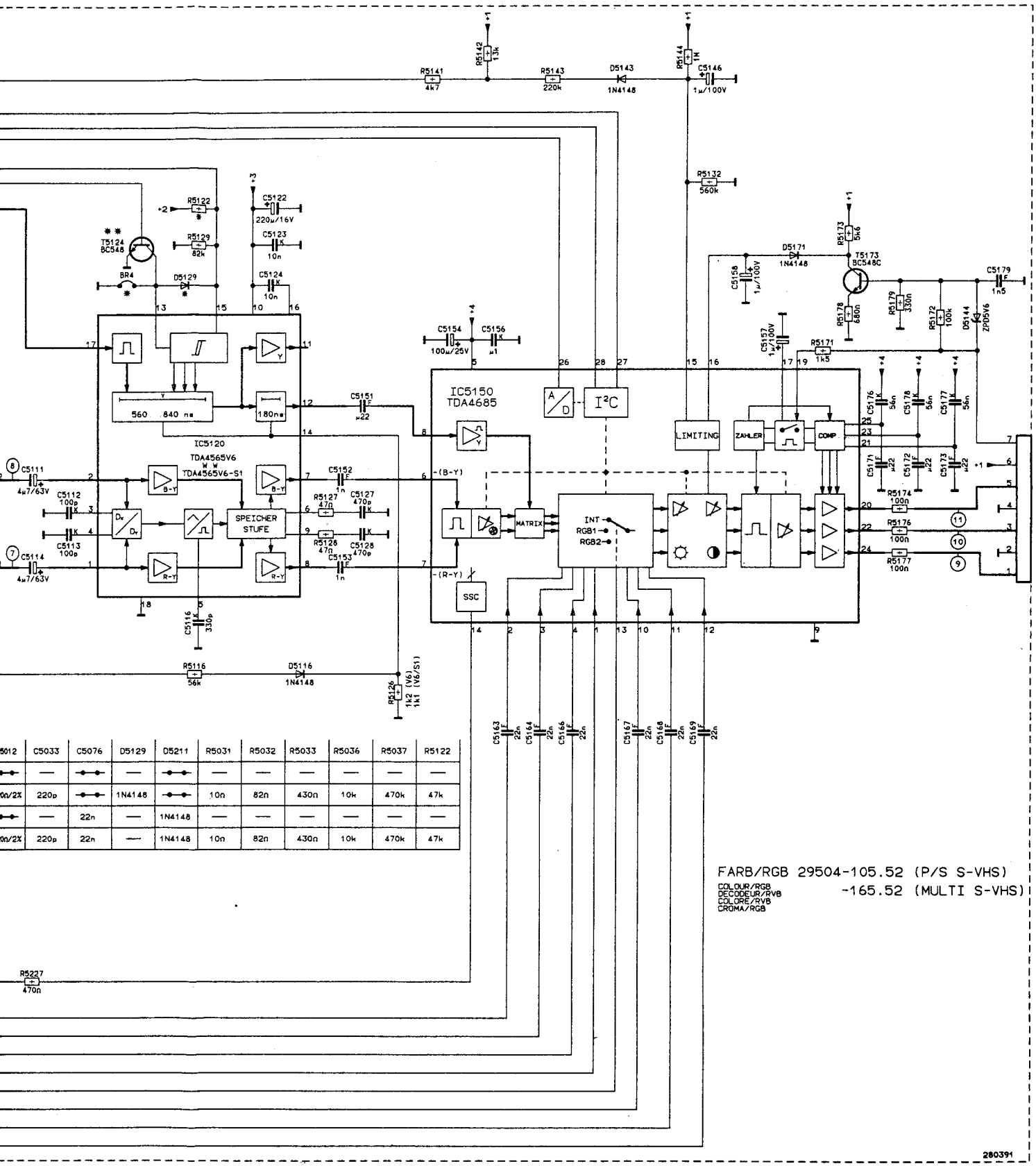


*	IC5030	BR1 BR2	BR4	R5011	R5012	C5033	C5076	D5129	D5211	R5031	R5032	R5033	R5036	R5037	R5122
P/S	—	●—●	●—●	1k2	●—●	—	●—●	—	●—●	—	—	—	—	—	—
P/S S-VHS (-105 52)	MC14551	● ●	● ●	680Ω/2%	620Ω/2%	220p	●—●	1N4148	●—●	10n	82n	430n	10k	470k	47k
MULTI	—	●—●	● ●	1k2	●—●	—	22n	—	1N4148	—	—	—	—	—	—
MULTI S-VHS (-165 52)	MC14551	● ●	● ●	680Ω/2%	620Ω/2%	220p	22n	—	1N4148	10n	82n	430n	10k	470k	47k

FARB/RGB 29504-

COLOUR/RGB
DECODEUR/RVB
COLORE/RVB
CROMA/RGB

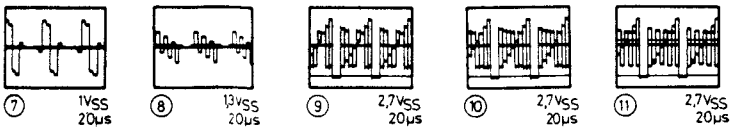




5012	C5033	C5076	D5129	D5211	R5031	R5032	R5033	R5036	R5037	R5122
	—		—		—	—	—	—	—	—
0n/2%	220p		1N4148		10n	82n	430n	10k	470k	47k
	—	22n	—	1N4148	—	—	—	—	—	—
0n/2%	220p	22n	—	1N4148	10n	82n	430n	10k	470k	47k

FARB/RGB 29504-105.52 (P/S S-VHS)
COLOUR/RGB
DECODEUR/RVB
COLORE/RVB
CROMA/RGB
-165.52 (MULTI S-VHS)

280391



(D)

Videotext

Servicearbeiten nach Bausteinwechsel: keine.

Videotext-Nachrüstung:
Vor dem Nachrüsten der Videotextsteckkarte muß am Videotext-Steckplatz (Chassis) die Brücke zwischen Bausteinkontakt 4 und 6 entfernt bzw. aufgetrennt werden.

Anpassungsabgleich:
Der Einstellregler R 2857 steht bei der Auslieferung auf Linksanschlag (kleinste Höhenanhebung, ca 2 dB). Treten trotz einwandfreiem Antennensignal Zeichenfehler auf, R 2857 langsam nach rechts verstellen, bis die Fehler verschwinden. Nicht weiterdrehen, da die Fehlerhäufigkeit wieder zunehmen kann.
Hinweis: Während des Abgleiches ist es notwendig, die Seite 199 ständig neu anzuwählen, da nur so die Seite neu eingelesen wird und eine Beurteilung der Fehlerschwelle möglich ist.

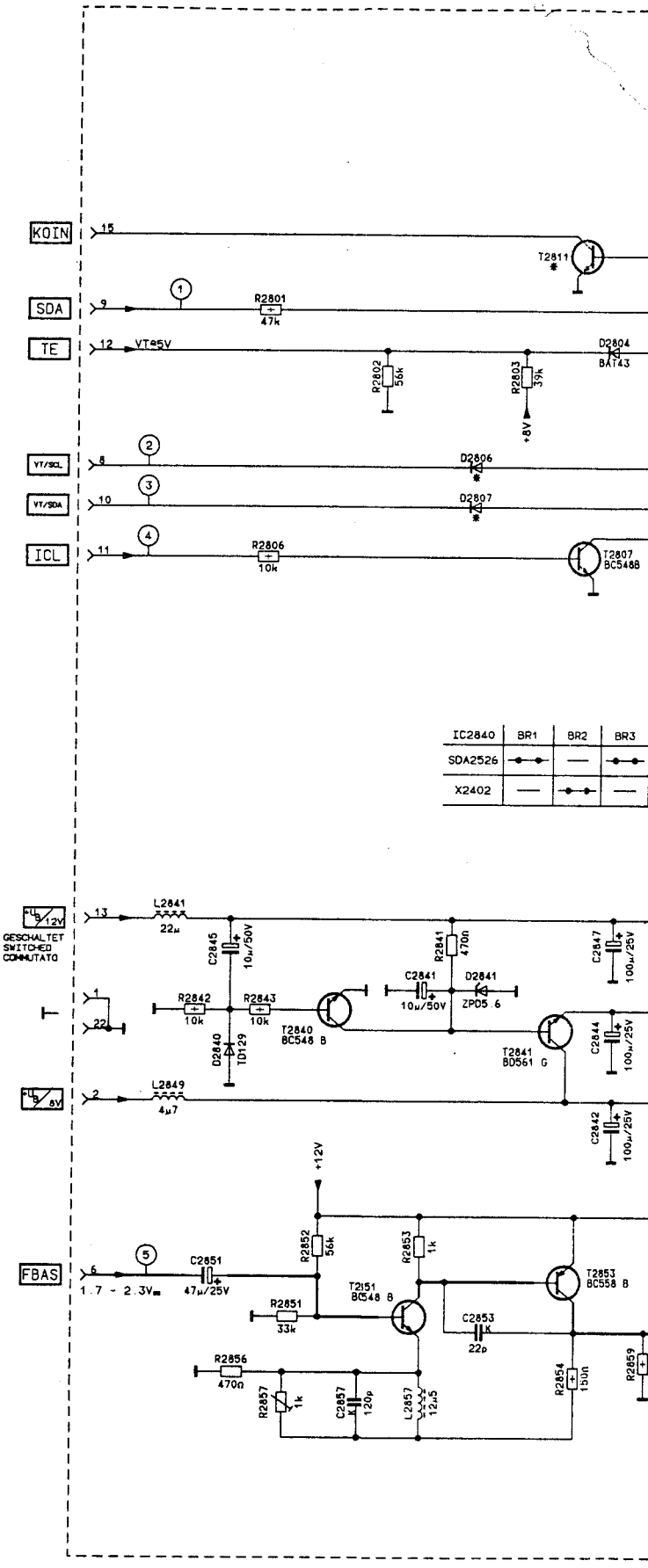
(GB)

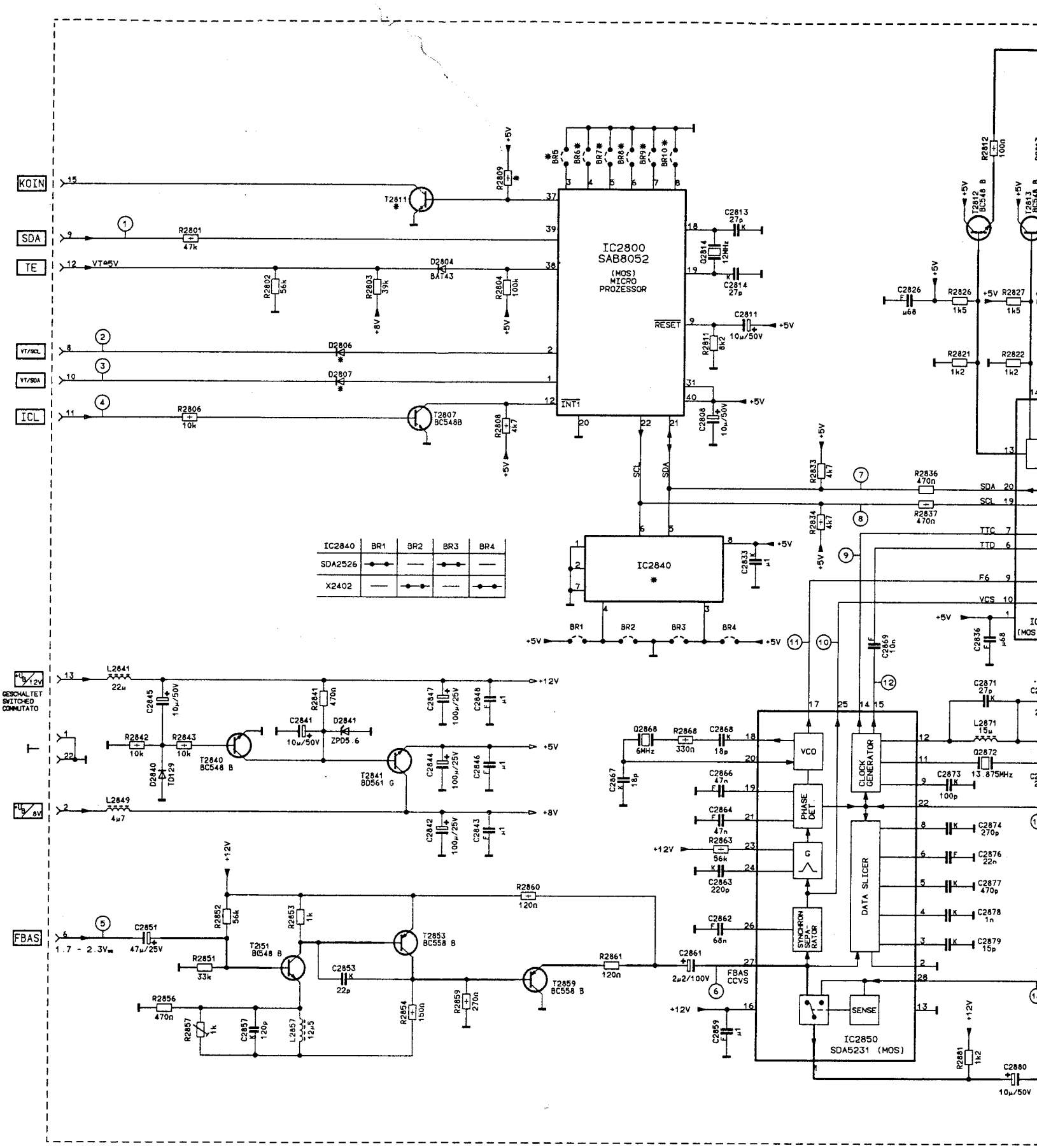
Teletext

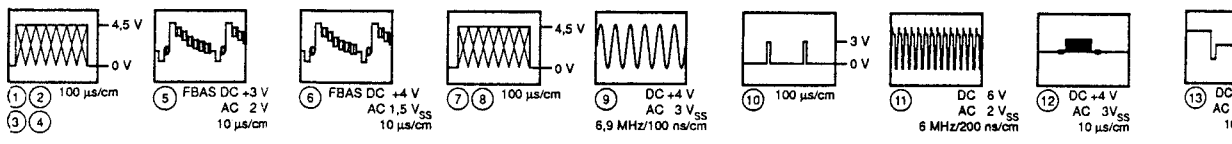
Servicing work after replacing the module: none.

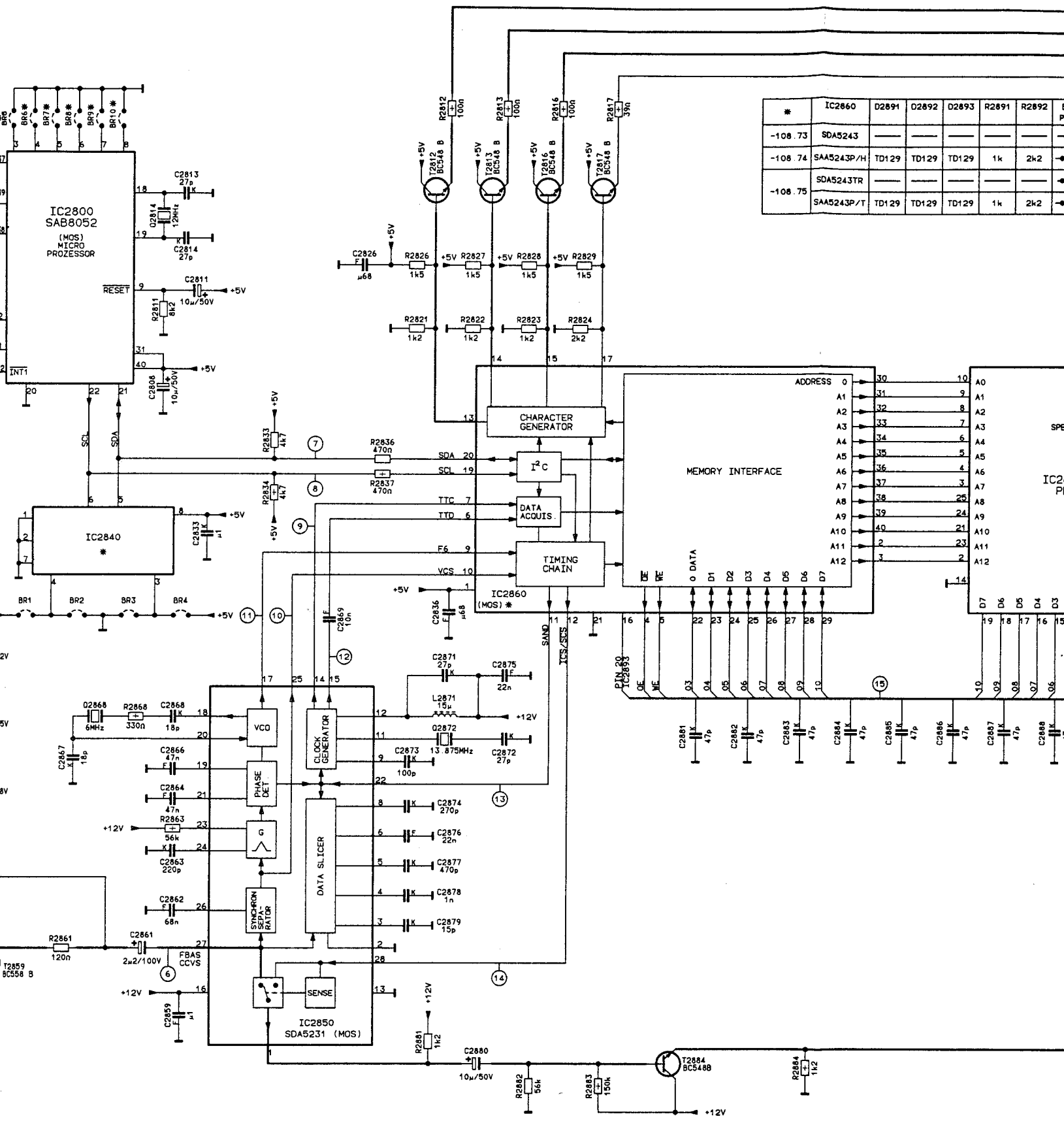
Teletext instalation:
Bevore fitting the Teletext plug-in board, to the place provided for it on the chassis, cut or remove the bridge connecting module contact 4 with contact 6.

Matching adjustment:
The control R 2857 is set in the fully anti clockwise position when the unit is delivered (smallest treble boost: approx. 2dB). If, with a perfect aerial signal character faults occur, turn R 2857 slowly clockwise until the faults disappear. Do not turn R 2857 up any further as error rate may increase again.
Note: Page 199 must always be selected a new during the adjustment, as only this effects anew read-in of the page making it possible to evaluate the error level.

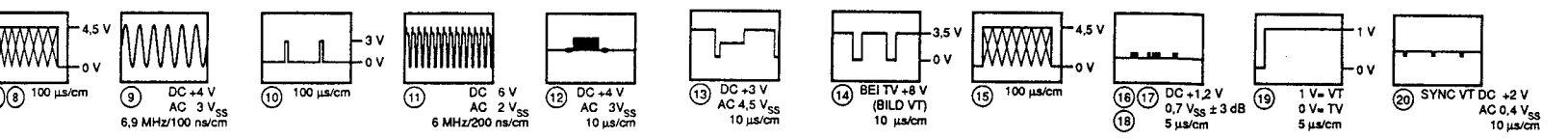



KOIN
SDA
TE
VT/SCL
VT/SDA
ICL
FBAS
IC2800
SAB8052
(MOS)
MICRO
PROZESSOR
IC2840
IC2850
SDA5231 (MOS)
VCO
PHASE DET.
G
SYNCHRON SEPA-RATOR
CLOCK GENERATOR
DATA SLICER
SENSE
IC2840 BR1 BR2 BR3 BR4
SDA2526
X2402
GESCHALTET
SWITCHED
COMMUTATO
+12V
+5V
+8V

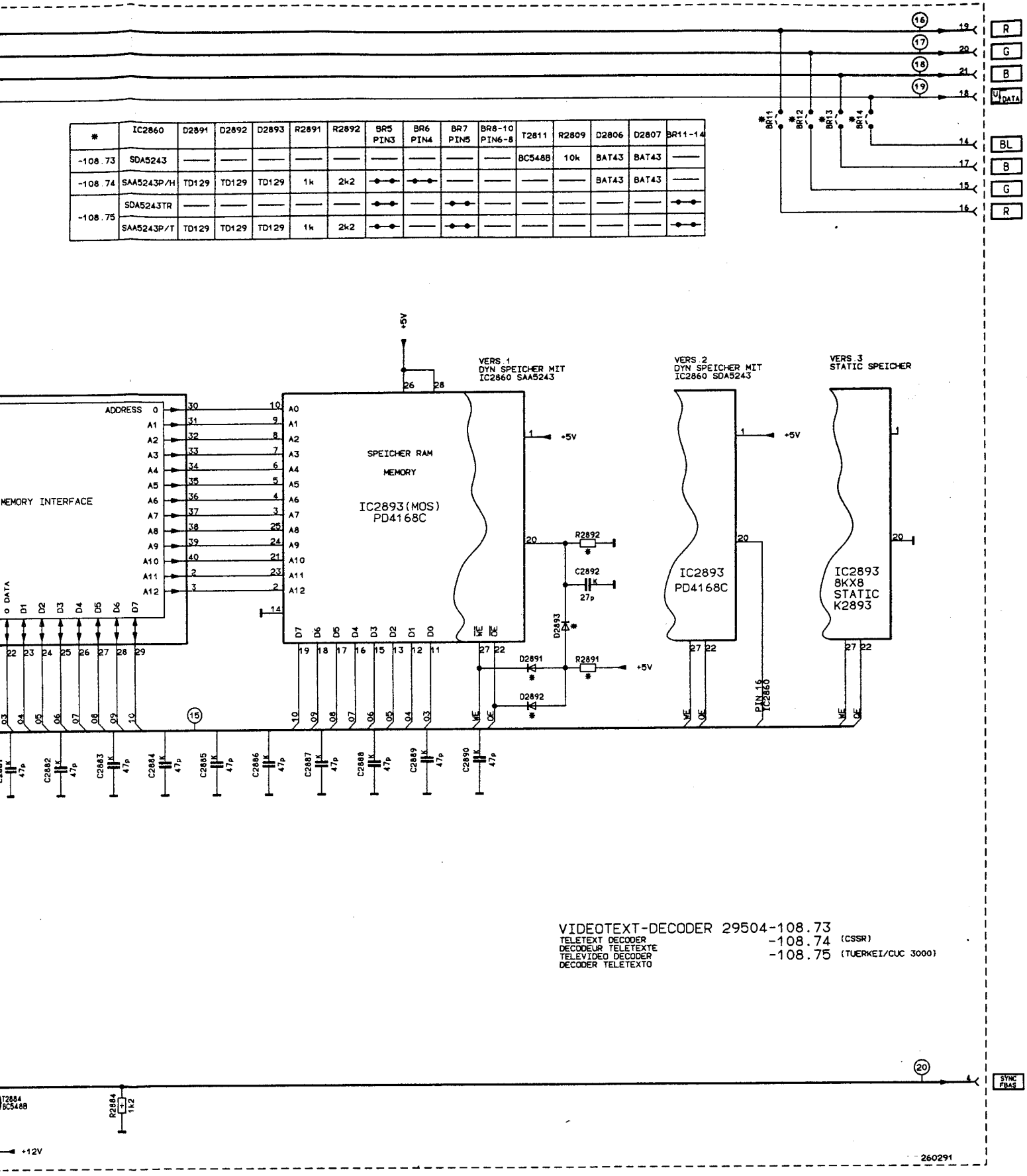

4,5 V
0 V
100 µs/cm
FBAS DC +3 V
AC 2 V
10 µs/cm
FBAS DC +4 V
AC 1,5 V
10 µs/cm
3 V
DC +4 V
AC 3 V
6,9 MHz/100 ns/cm
DC 6 V
AC 2 V
6 MHz/200 ns/cm
DC +4 V
AC 3V
10 µs/cm



*	IC2860	D2891	D2892	D2893	R2891	R2892
-108.73	SDA5243	——	——	——	——	——
-108.74	SAA5243P/H	TD129	TD129	TD129	1k	2k2
-108.75	SDA5243TR	——	——	——	——	——
	SAA5243P/T	TD129	TD129	TD129	1k	2k2



*	IC2860	D2891	D2892	D2893	R2891	R2892	BR5 PIN3	BR6 PIN4	BR7 PIN5	BR8-10 PIN6-8	T2811	R2809	D2806	D2807	BR11-14
-108.73	SDA5243	——	——	——	——	——	——	——	——	——	BC548B	10k	BAT43	BAT43	——
-108.74	SAA5243P/H	TD129	TD129	TD129	1k	2k2	—●—	—●—	——	——	——	——	BAT43	BAT43	——
-108.75	SDA5243TR	——	——	——	——	——	—●—	——	—●—	——	——	——	——	——	—●—
	SAA5243P/T	TD129	TD129	TD129	1k	2k2	—●—	——	—●—	——	——	——	——	——	—●—



VIDEOTEXT-DECODER 29504-108.73

TELETEXT DECODER
DECODEUR TELETEXTE
TELEVIDEO DECODER
DECODER TELETEXTO

-108.74 (CSSR)
-108.75 (TUERKEI/CUC 3000)