

Zusätzlich erforderliche Unterlagen für den Komplettservice:

Additionally required Service Manuals for the Complete Service:



ⓓ Btx \* 32700 #

**CUC 6360**  
**CUC 6365**

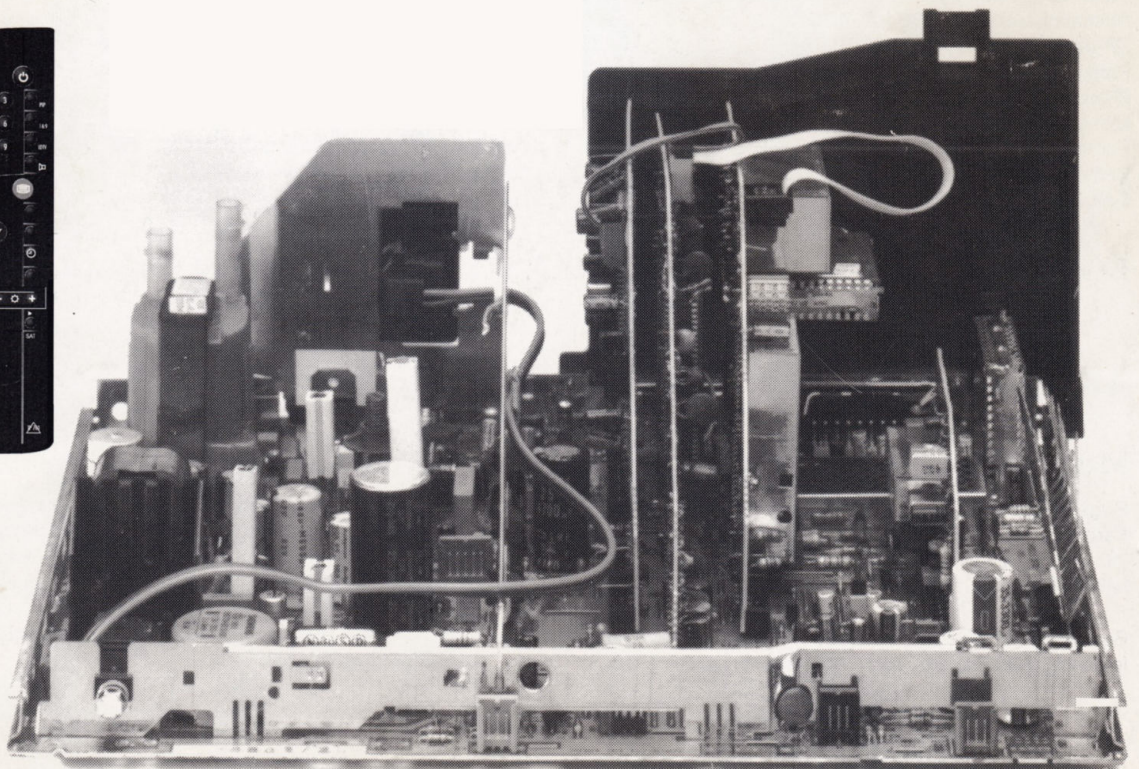
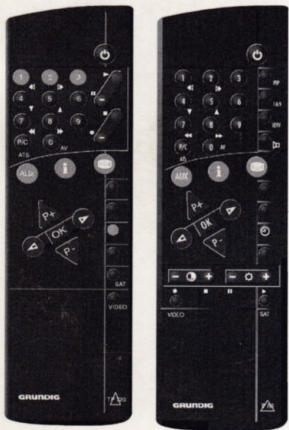
## CUC 6360

<b>ST 70 - 755 TOP</b>	(9.21272-01 / GCZ 4284)	<b>ST 7004/9</b>	(9.21295-02 / GCZ 9061)
<b>ST 70 - 755/9 TOP</b>	(9.21272-02 / GCZ 6761)	<b>ST 70/705 TOP</b>	(9.21338-01 / GCA 8961)
<b>ST 70 - 651/9 TOP</b>	(9.21289-02 / GCZ 7661)	<b>ST 70 - 755 SAT</b>	(9.21272-03 / GCZ 6884)
<b>ST 63 - 651/9 TOP</b>	(9.21290-02 / GCZ 7861)	<b>XS 70/9</b>	(9.21291-02 / GCZ 8182)
<b>ST 63 - 755 TOP</b>	(9.21273-01 / GCZ 4384)	<b>XS 63/9</b>	(9.21292-02 / GCZ 8382)
<b>ST 63 - 755/9 TOP</b>	(9.21273-02 / GCZ 6961)	<b>ST 7004</b>	(9.21295-01 / GCZ 8961)
<b>Salzburg ST 770 TOP</b>	(9.21293-01 / GCZ 7191)	<b>Copenhagen ST 763 TOP</b>	(9.21213-01 / GCA 3124)
<b>XS 70/1</b>	(9.21291-01 / GCZ 8082)	<b>SE 6376 TOP</b>	(9.21328-01 / GCA 3224)
<b>XS 63/1</b>	(9.21292-01 / GCZ 8282)		
<b>SE 7087 TOP</b>	(9.21294-01 / GCZ 8592)	<b>SER 6350</b>	(9.28016-4132 / GAX 8200)

## CUC 6365

<b>ST 63 - 761 TOP</b>	(9.21354-01 / GCA 8769)	<b>ST 72 - 761/9 TOP</b>	(9.21334-02 / GCA 7169)
<b>ST 63 - 761/9 TOP</b>	(9.21354-02 / GCA 8869)	<b>ST 72 - 761 SAT</b>	(9.21334-03 / GCA 6969)
<b>Sydney 72 ST 1772 TOP</b>	(9.21336-01 / GCA 7224)	<b>SE 7287 TOP</b>	(9.21335-01 / GCA 7424)
<b>Sydney 72 ST 1772/9 TOP</b>	(9.21336-02 / GCA 7324)		
<b>ST 72 - 761 TOP</b>	(9.21334-01 / GCA 7069)		

**TP 720** (29622-059.06)  
**TP 760** (29622-059.01)



## NOTE INFO TECHNIQUE

INTERNE N° 28/95. GRUNDIG. Notizen / Notes

APPAREILS ST 70-651/9 TOP. V

ST 70-755/9 TOP. CUC 6360

Modification extinction spot.

A Faire sur tous modèles si le numéro d'Eprom est inférieur à 19798-265.06 ou 19798-272.03. Cette info apparaît à l'écran en activant la Fonction menu puis en appuyant sur la touche auxiliaire de la télécommande.

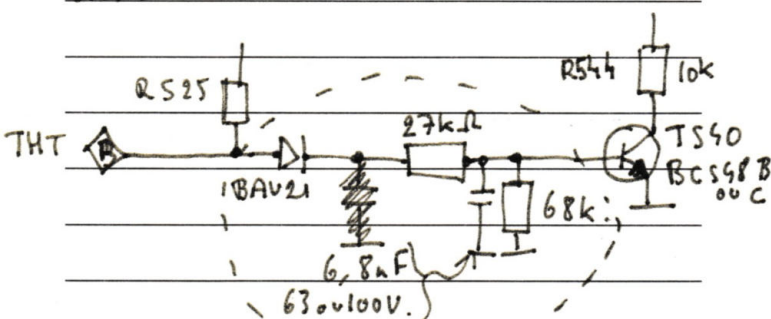
Sans s'occuper du schéma synoptique répertorié sur le circuit imprimé principal côté soudures (page 4-3/44 de la doc) les composants :

T560 (BC 548 B)

R548 (22k $\Omega$ )R543 (10k $\Omega$ )

Et les retirer.

La base de T560 est désormais en l'air. Il faut câbler la variable suivant le schéma (page 4-9). A partir du point B de la THT monter <sup>(ceci)</sup> ~~un~~ <sub>réseau</sub> :



Contrôler R544 10k.

Variable à câbler

ST 72-762/9 TOP

REGAGE GEOMETRIE.

AFC REF  $\Rightarrow$  "116"

BALANCE BLANC

VG = 44

VB = 44

70-751/9 - 762/9

GEOMETRIE D'ORIGINE

V-MIDDLE -30- 30

P-VERTICALE -28- 28

H-IMAGE -33- 33

V-LINEARITY -32- 32

L-IMAGE -40- 40

P-HORIZON -24- 24

E-W AMP -24- 24

E-W TRAPEZ -30- 30

E-W CORNERS -39- 39

EPROM : 19798 265 09

GB

## Alignment

All adjustment controls not mentioned in this description are adjusted during production and must not be re-adjusted in the case of repairs.

### 1. Chassis Board

**Measuring Instruments:** Oscilloscope with 10:1 test probe, colour test pattern, high resistance voltmeter

**Cecks and adjustments after replacement or repair of:**

**Power Supply:** 1.1

**Horizontal Deflection:** 1.2, 1.4, 1.8, 1.9

**Picture Tube, CRT-Panel:** 1.2, 1.7

**Colour-Decoder Sync. Module:** 1.7

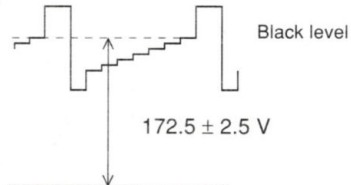
**IF Amplifier, Tuner:** 1.5

**Tuning Module:** 1.6 1.8

**Vertical deflection:** 1.9

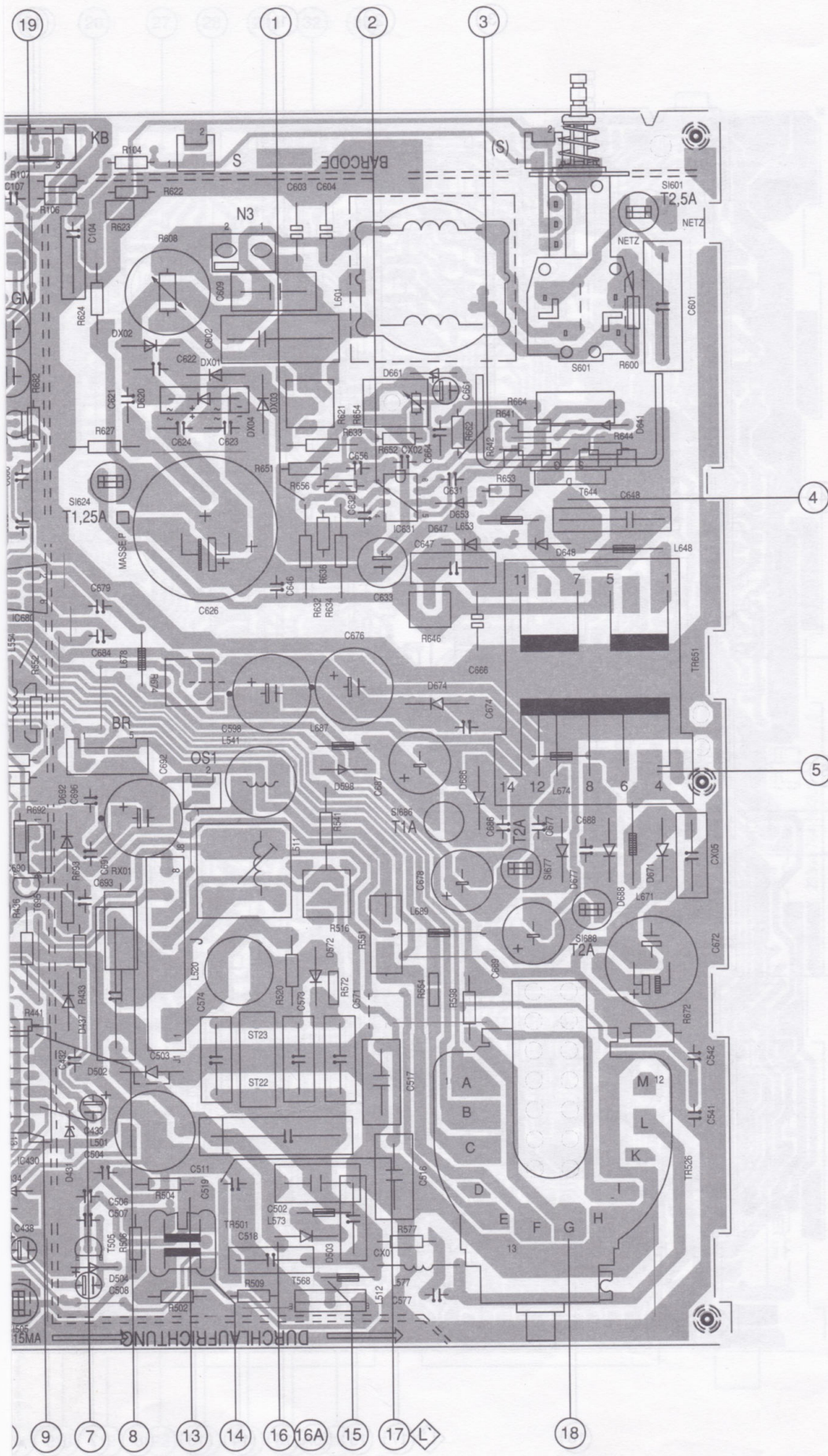
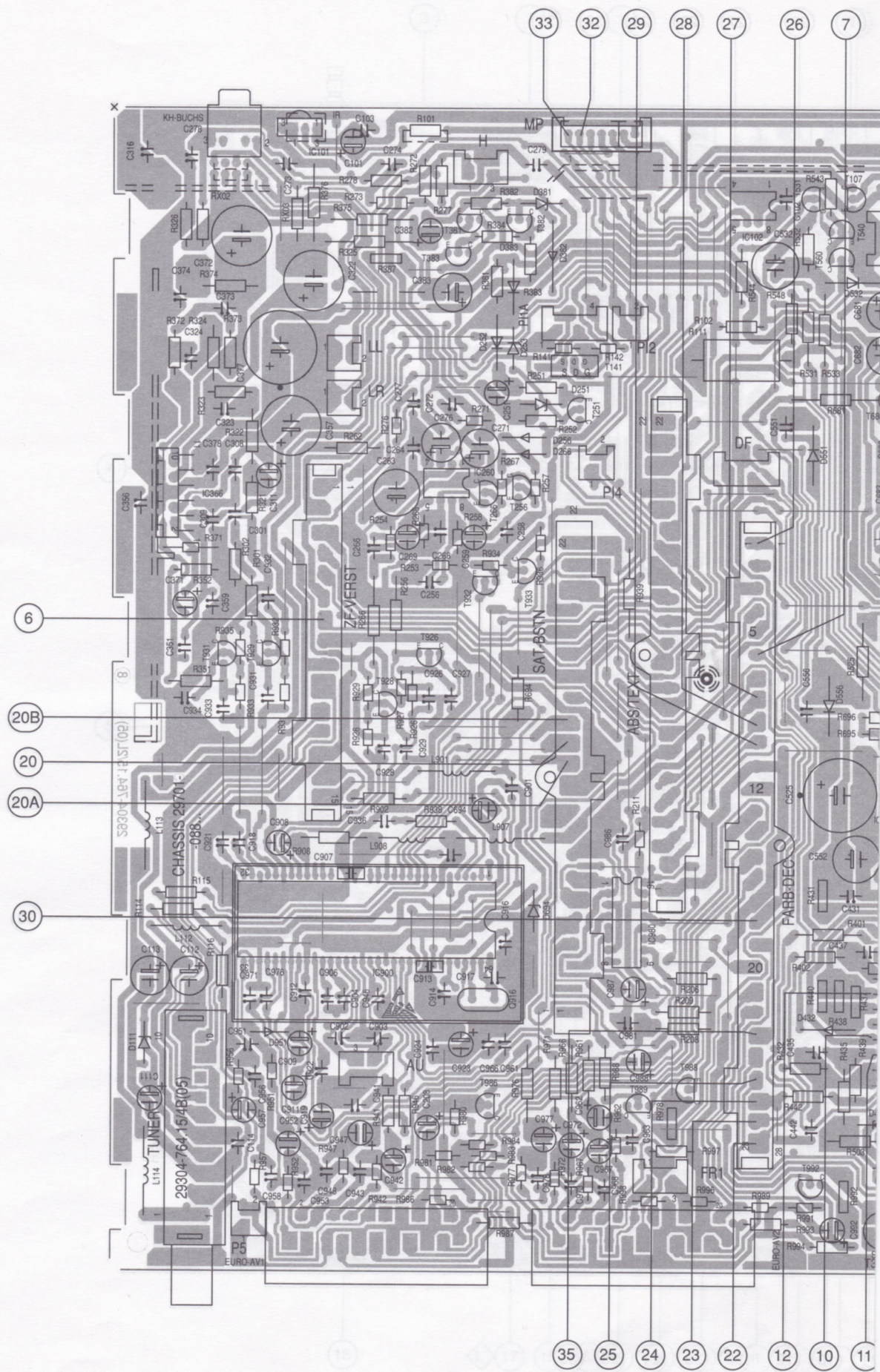
**Bridge Coil:** only necessary after improper changes in the horizontal deflection adjustment 1.3

**SAT Module:** 1.10

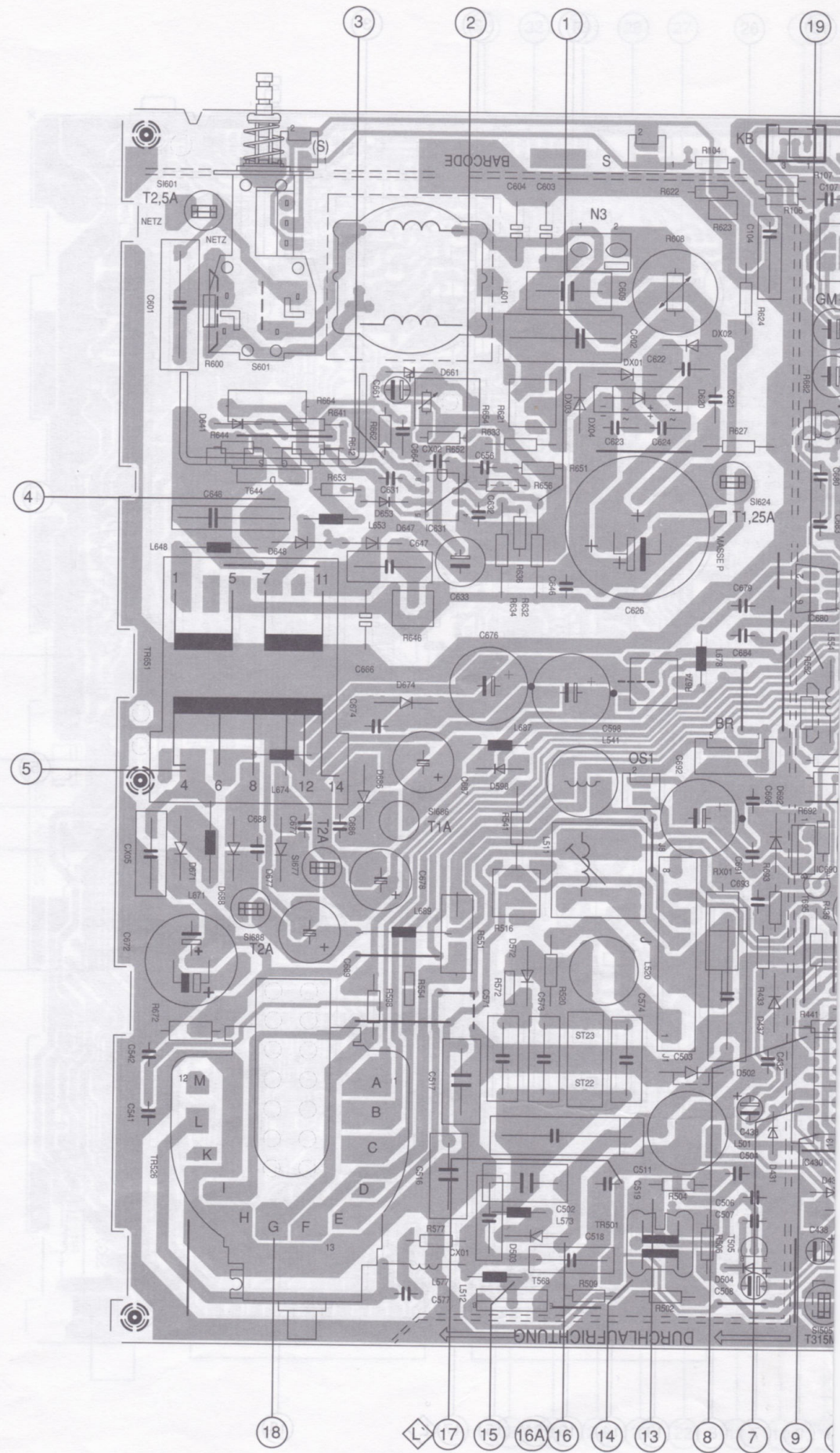
Alignment	Preparations	Alignment Process
1.1 +A Voltage	Set luminance to minimum. Connect the voltmeter to the cathode of D681.	Set the control <b>R654</b> to the voltage 152V/159V (BL)/ 142V (29" PH)/147V (29" Tosh).
1.2 Screen grid voltage $U_{SG}$	Feed in a test pattern. With the remote control adjust the screen brightness so that the grey areas just become dark. Switch the TV receiver to AV operation. Connect a high-ohmic voltmeter (series resistance approx. 220 k $\Omega$ ) to the test points R,G,B and determine the maximum voltage.	With the control <b>SG</b> on the picture tube panel set the maximum voltage level to approx. <b>172.5 <math>\pm</math> 2.5V</b> . If retrace lines are visible on the screen reduce the voltage by approx. 10V . 
1.3 Bridge Coil L511	The bridge coil L511 is correctly adjusted during production and should not be re-adjusted any more.  Call up the Service Programme $\rightarrow$ "Info Center" $\rightarrow$ "Special Functions" $\rightarrow$ "Service" $\rightarrow$ "Code Number 8500" $\rightarrow$ "Geometry". Set the horizontal amplitude to minimum. Connect channel of an oscilloscope one to the collector of the transistor T568 . Connect channel two of an oscilloscope between the diodes D502 and D503.	Adjust the coil <b>L511</b> so that both oscillograms have the same pulse width.  Re-adjust the horizontal amplitude according to the test pattern and store.
1.4 Line sharpness	Select the convergence test pattern:  Contrast to maximum Set the brightness so that the black background of the test pattern is just brightening.	With the focus control <input checked="" type="checkbox"/> adjust the horizontal lines for maximum sharpness.
1.5 Tuner-AGC	Feed in a standard test pattern in the upper range of the UHF band; the RF must be 1.5mV (64dB $\mu$ V, noise-free picture) at least. Info Center $\rightarrow$ Special functions $\rightarrow$ Service $\rightarrow$ Code 8500 $\rightarrow$ Tuner AGC.	With the buttons $\blacktriangleleft$ and $\blacktriangleright$ tune the TV station so that noise just starts to appear in the picture. Then tune in reverse direction until the picture just becomes noise-free. Store with OK.
AFC-Reference	Tune to a local station on a channel as low as possible at the desired programme position with standard channel spacing without fine tuning. Info Center $\rightarrow$ Sonderfunktionen $\rightarrow$ Service $\rightarrow$ Kennzahl 8500 $\rightarrow$ AFC-Reference.	On activation of AFC Reference Automatic a rectified IF-voltage is measured at the AFC output of the IF amplifier which is used on station search as a comparative value for VCR-RF playback (station identification "AV") to readjust the modulator drift. Activate with OK.

Alignment	Preparations	Alignment Process
1.6 Colour match	Call up the programme position of the desired TV station. Infocenter $\rightarrow$ Special functions $\rightarrow$ Settings $\rightarrow$ Colour match.	Adjust with $\blacktriangleleft$ and $\blacktriangleright$ buttons to make the signals coincide. Store with "OK".
1.7 White balance	Call up the White Balance menu via the Service Programme Info Center $\rightarrow$ Special Functions $\rightarrow$ Service $\rightarrow$ Code Number 8500.	With $\blacktriangleleft$ and $\blacktriangleright$ set the <b>VG</b> and <b>VB</b> values so that the white rectangular area in the middle of the picture becomes achromatic. Store with "OK".
1.8 Picture sharpness	Call up the programme position of the desired TV station. Infocenter $\rightarrow$ Picture menu $\rightarrow$ Sharpness	Change the value with the $\blacktriangleleft$ $\blacktriangleright$ buttons.
1.9 Picture Geometry	Info Center $\rightarrow$ Special functions $\rightarrow$ Service $\rightarrow$ Code 8500 $\rightarrow$ Geometry. For accurate adjustment of the picture a test generator or a standard test pattern should be used. The integrated test pattern or grid pattern may also be used.  <b>Attention!</b> Start always with the "V-Middle" adjustment otherwise the other vertical deflection parameters would defy correct geometry adjustment.  "V-Middle" adjustment with a video generator, eg. Grundig VG 1000:  Reset: Under the menu item "Reset" an average data set from the ROM IC820 is stored. After inadvertent re-adjustment during servicing, these basic values can be re-loaded at any time.	Via the menu, select the geometry values for the vertical deflection, then set the values for the horizontal deflection.  With the $\blacktriangleleft$ or $\blacktriangleright$ button change the setting so that the G-Y vector (orange area in the centre of the picture) is just covered (typ. 30...33). Continue with the picture geometry adjustment via the menu and store.  For this, move the bar to "Reset". Press the "OK" button.  With the <b>i</b> button return to the normal menu.
1.10 Video level	Switch the SAT receiver to SAT reception (eg. Astra) and set the correct video deviation (Astra 16MHz). Connect the test probe of an oscilloscope to the EURO-AV-socket, contact 19 ( 75 $\Omega$ termination). Trigger the CCVS signal to the vertical sync frequency.	With adjustment control R3848 set the amplitude of the vertical blanking gap in the CCVS signal to 1Vpp.

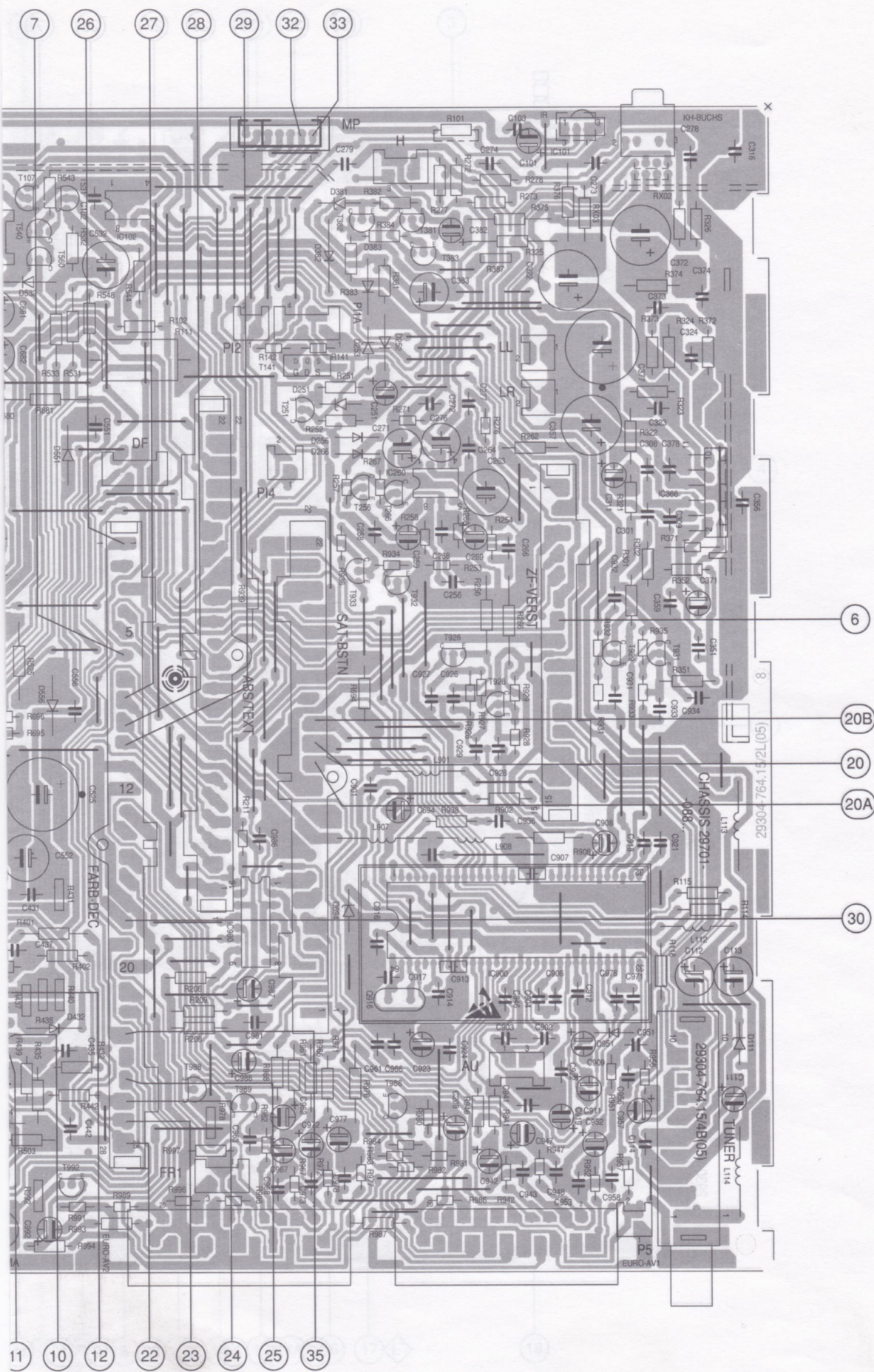
Chassisplatte / Chassis Board



Chassisplatte / Chassis Board



Chassisplatte / Chassis Board

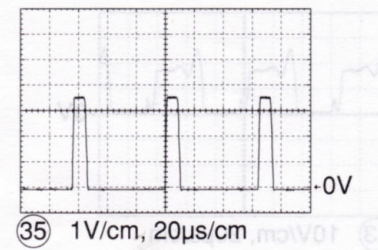
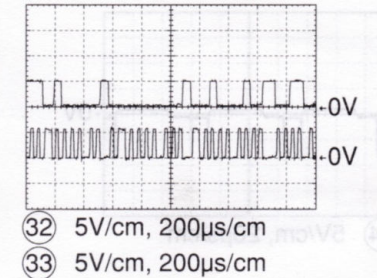
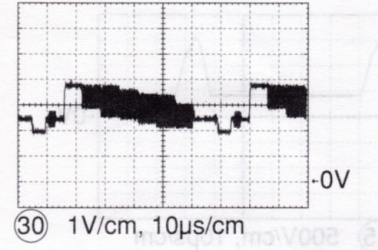
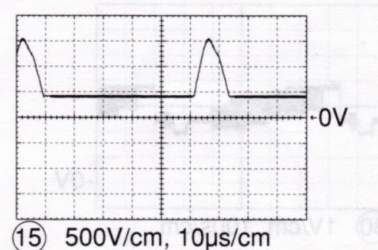
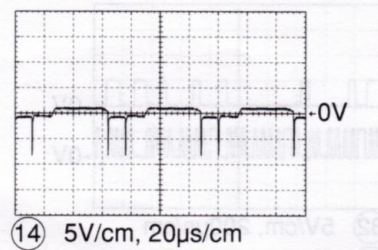
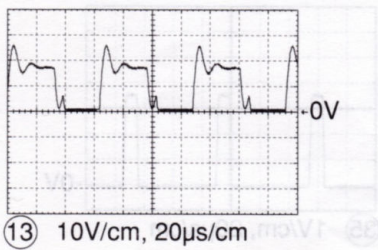
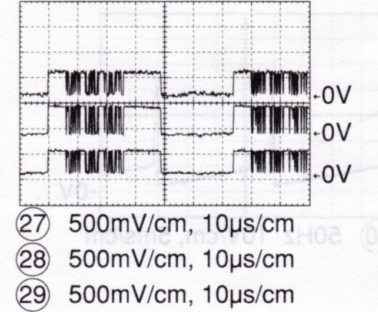
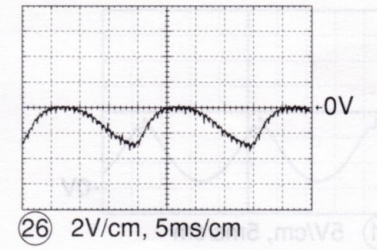
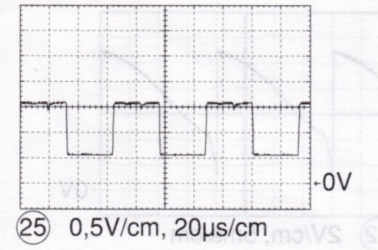
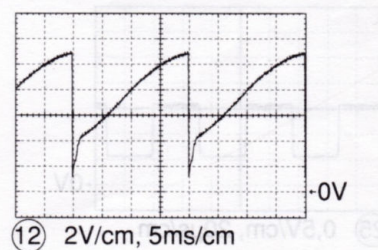
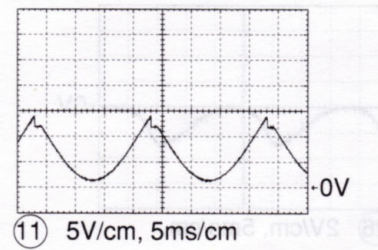
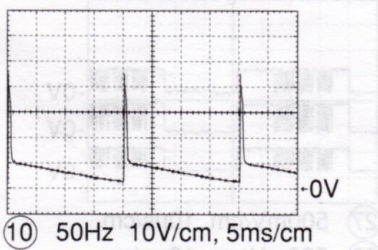
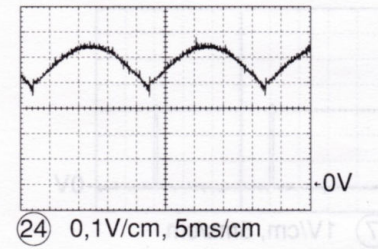
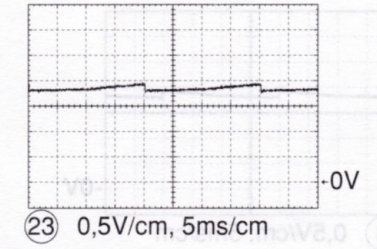
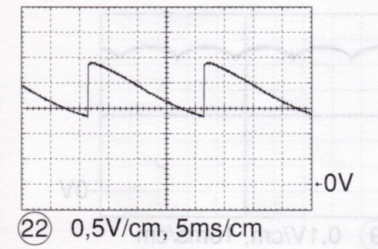
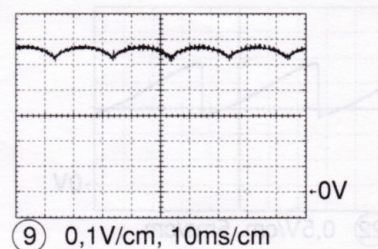
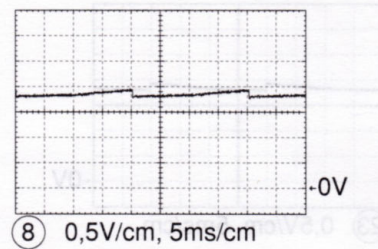
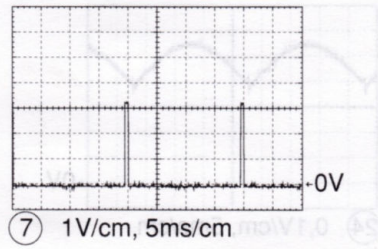
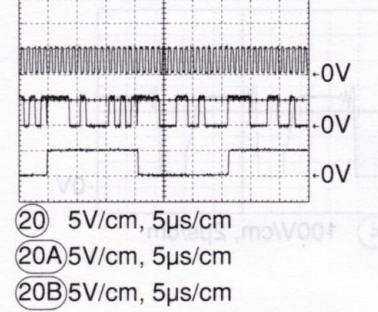
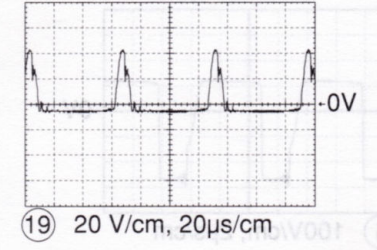
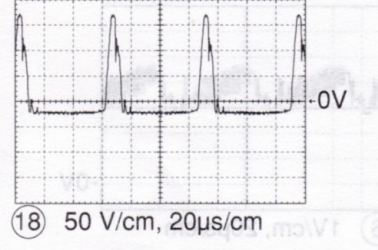
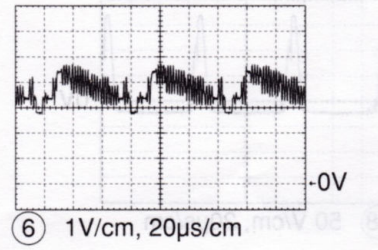
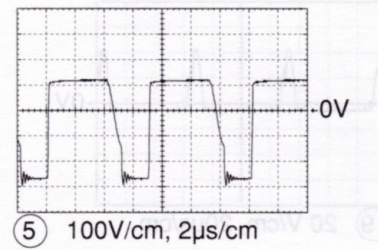
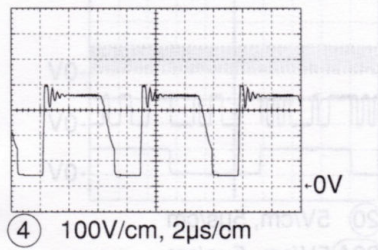
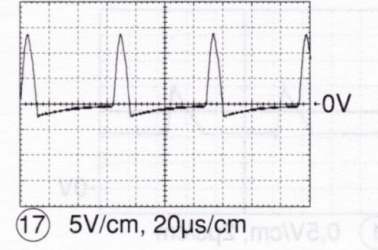
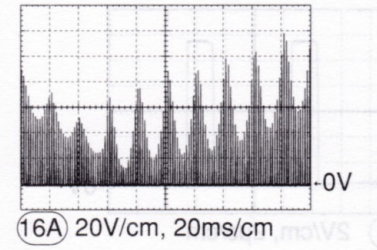
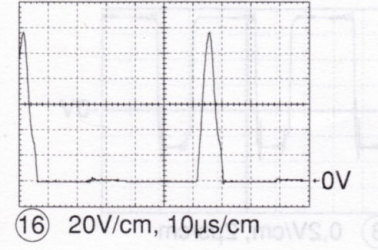
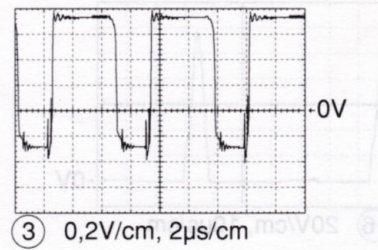
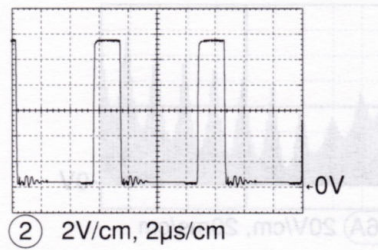
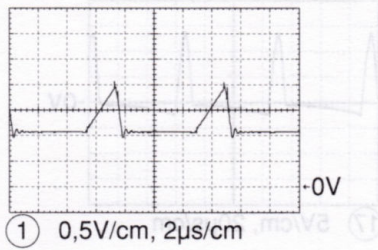


Chassisplatte / Chassis Board

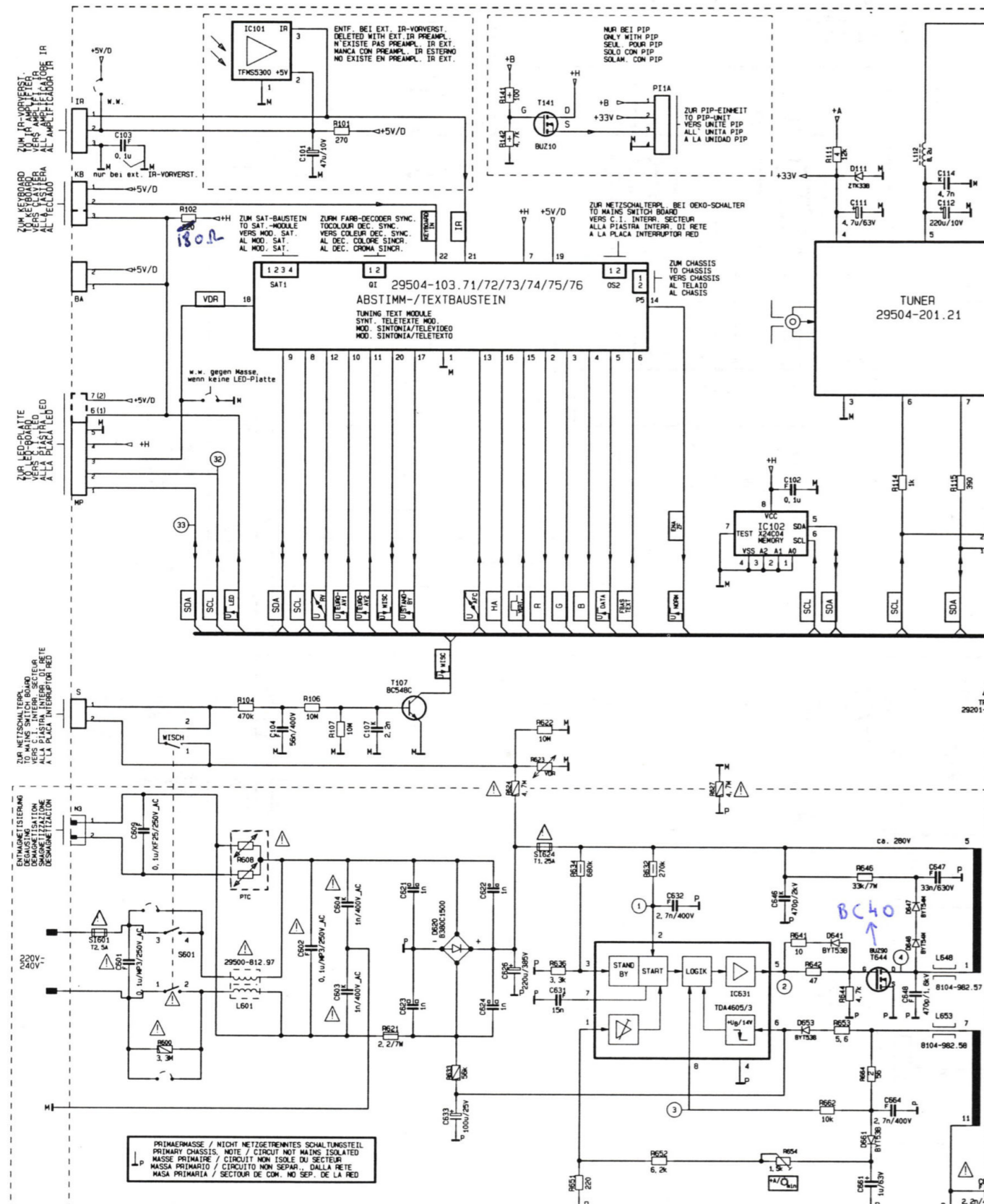
Chassisplatte / Chassis Board

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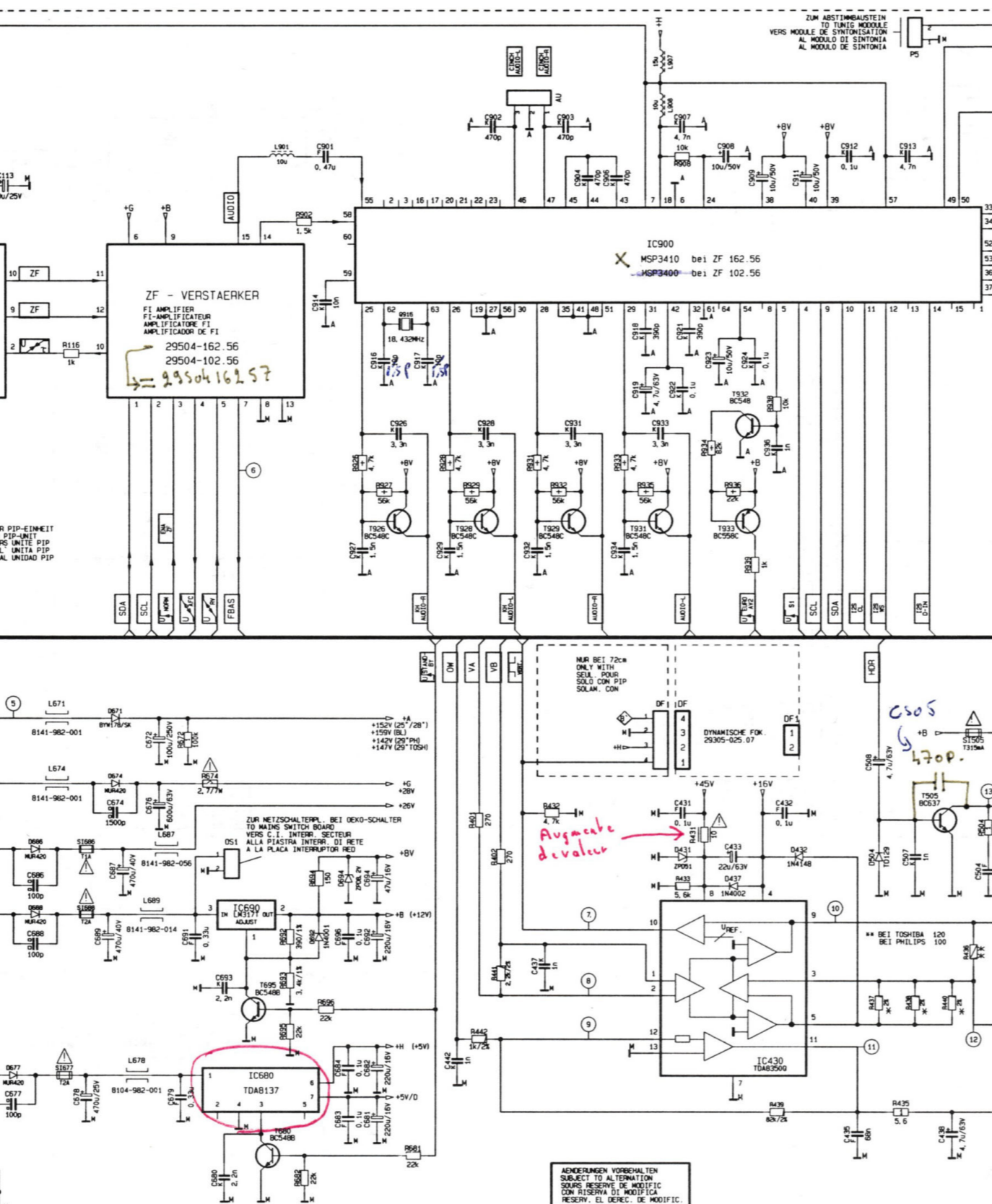


Gesamtschaltplan / General Circuit Diagram

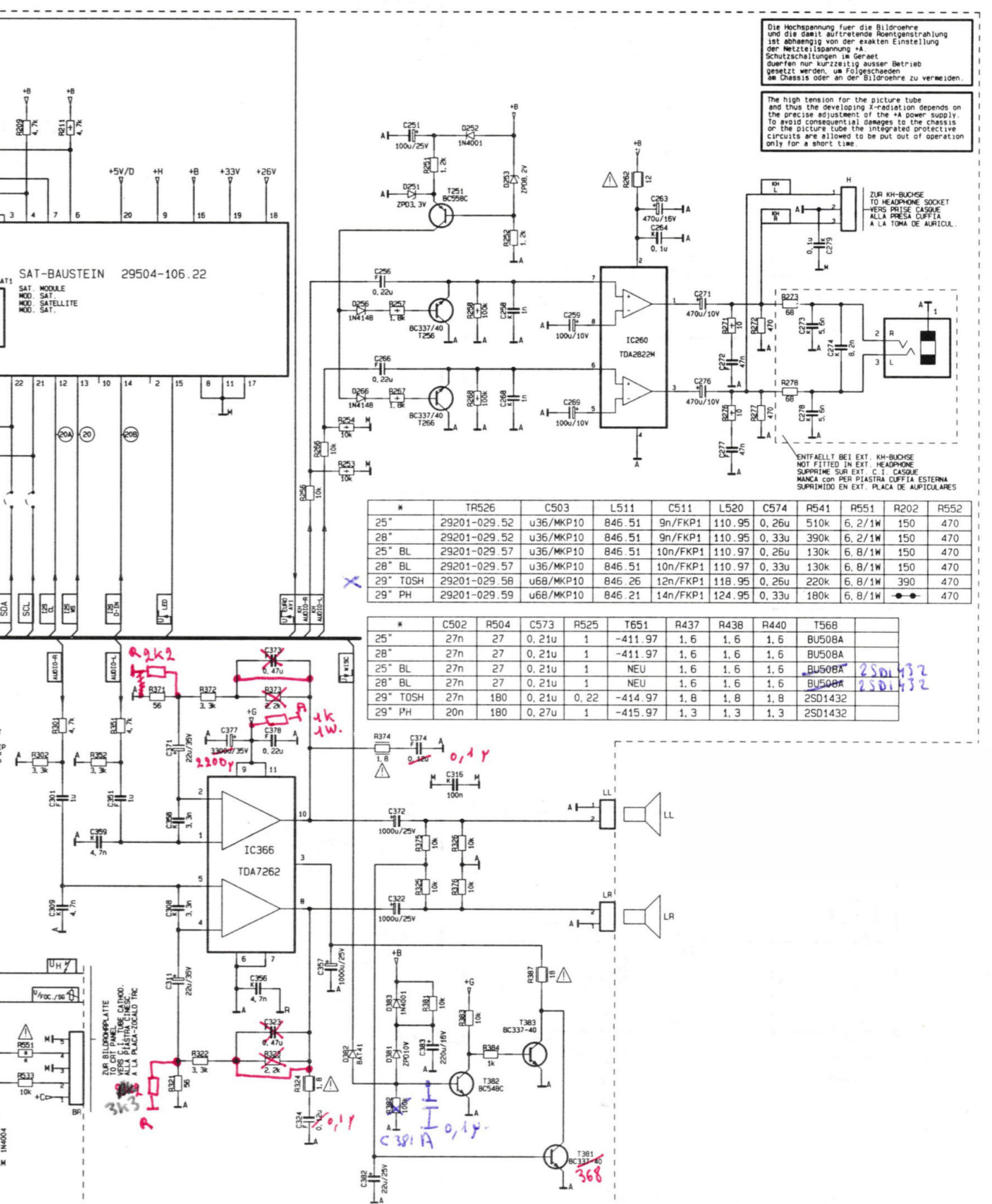
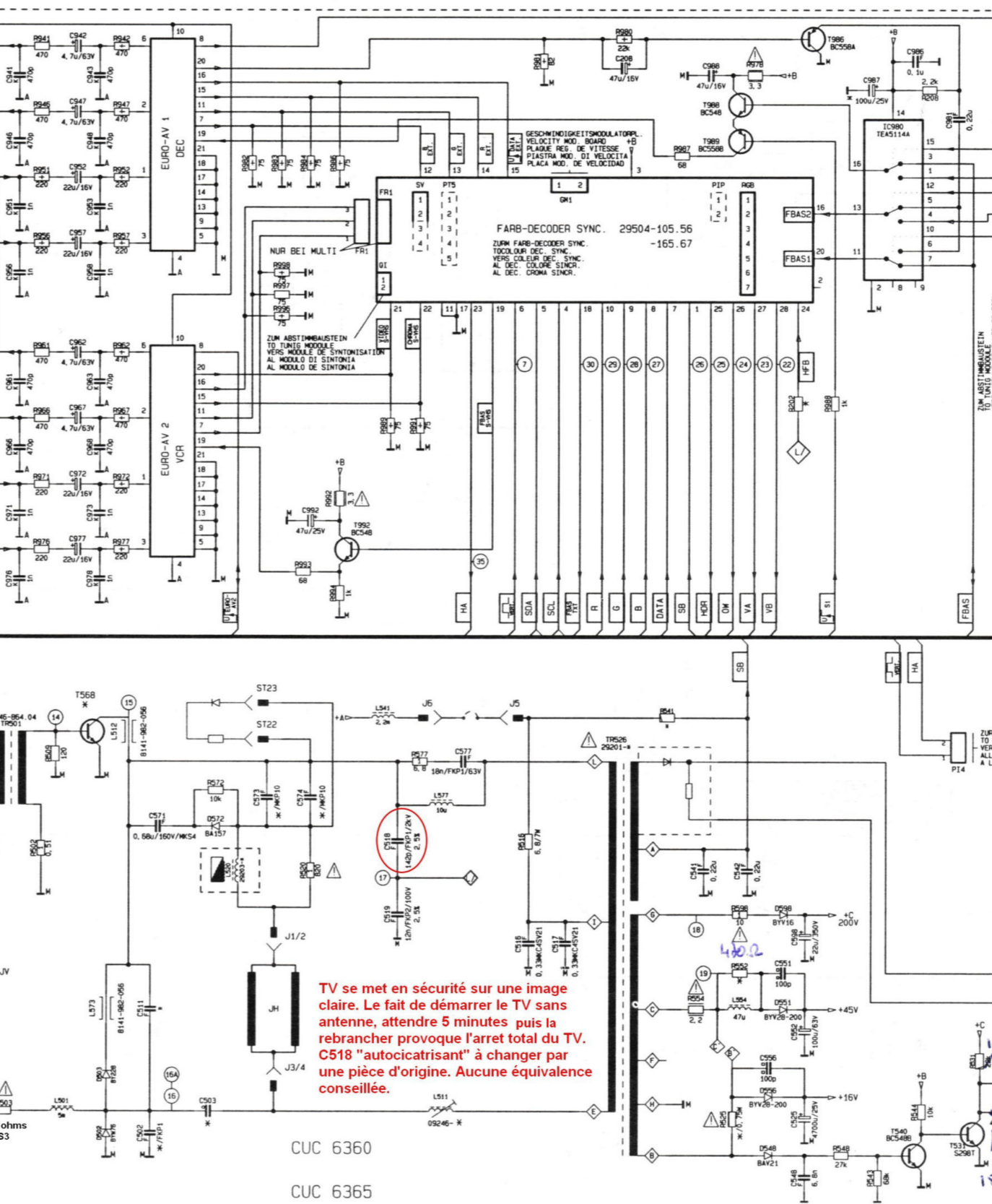


*Coupe liaison 1-2 et module FI.  
Plus de ligne norme au menu.  
Tango ok - Son soufflé (FR).*

*LOGO AVC cliqué  
à par la suite toujours à l'écran.  
IC MSP3410 HS-PIN 5*



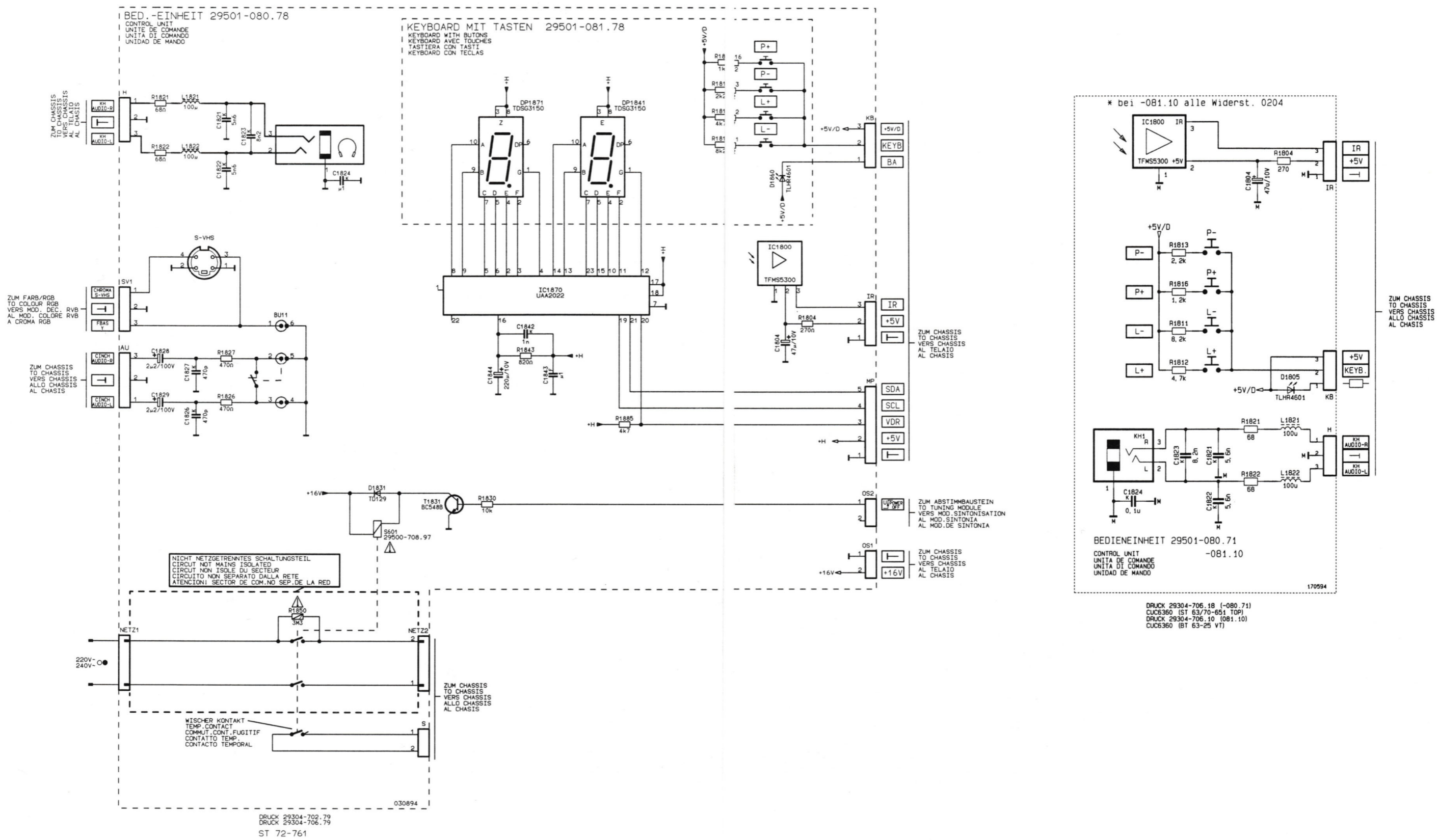
*Mise en sécurité en mode veille.  
Cable R202 + C5166 succédant au Syn.*



**Se méfier de l'extinction du spot en veille des premiers ST70 655/9TOP. Marquage du tube. Voir modifications en début de document. Attention à toujours réparer le circuit d'extinction avant de remplacer le tube!!!!**

**Pour diminuer la tension de blocage des G1 et soulager le TEA 5101 à l'extinction (A/D), cabler une résistance de 150 Kohms entre le collecteur de T531 et la masse. Remplacer R531 de 22Kohms à 100 Kohms.**

Bedieneinheiten / Control Units

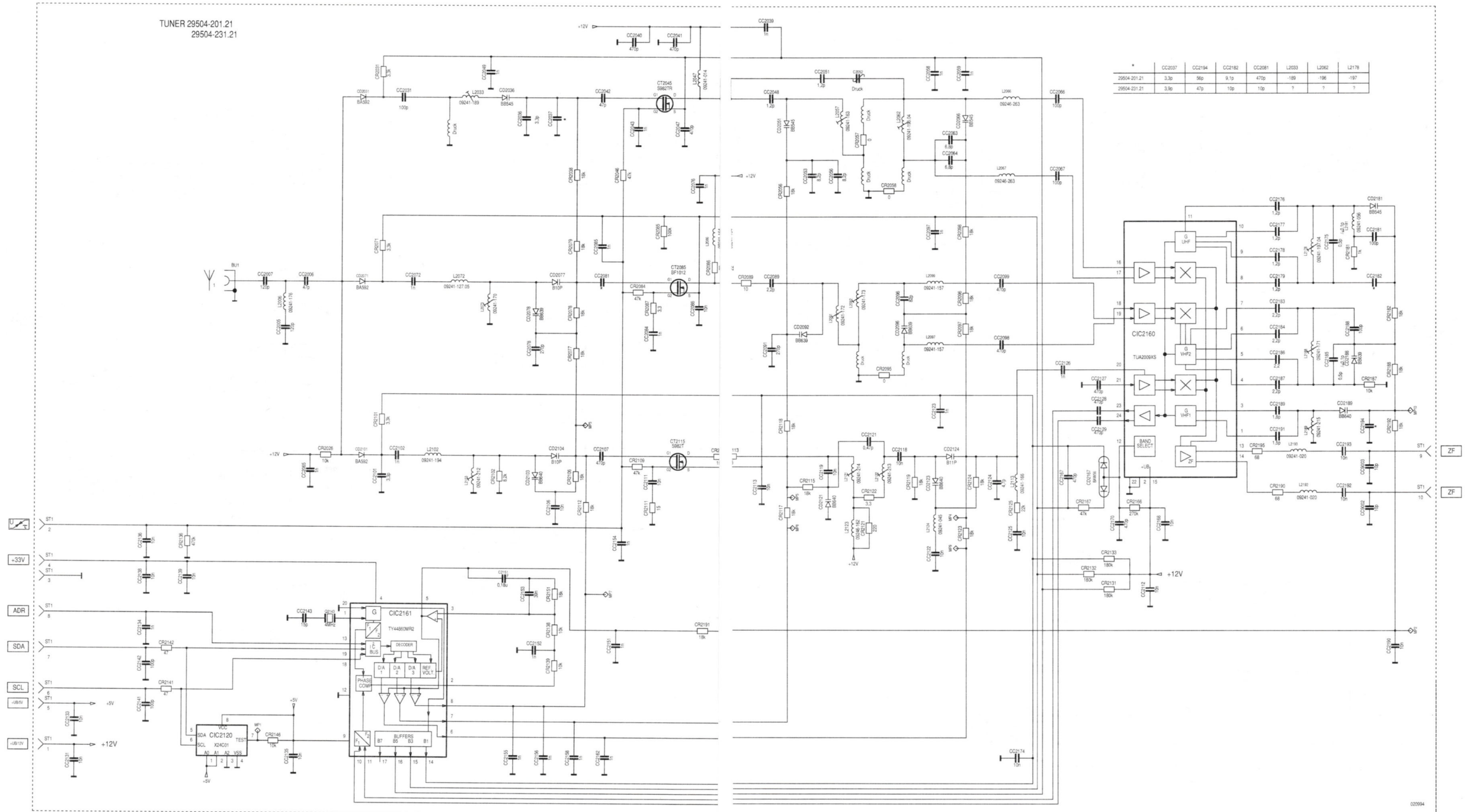




Tuner

Servicearbeiten nach Bausteinwechsel: siehe Abgleich Seite 3-1 (1.5)  
Servicing work after replacing the module: see alignment page 3-3 (1.5)

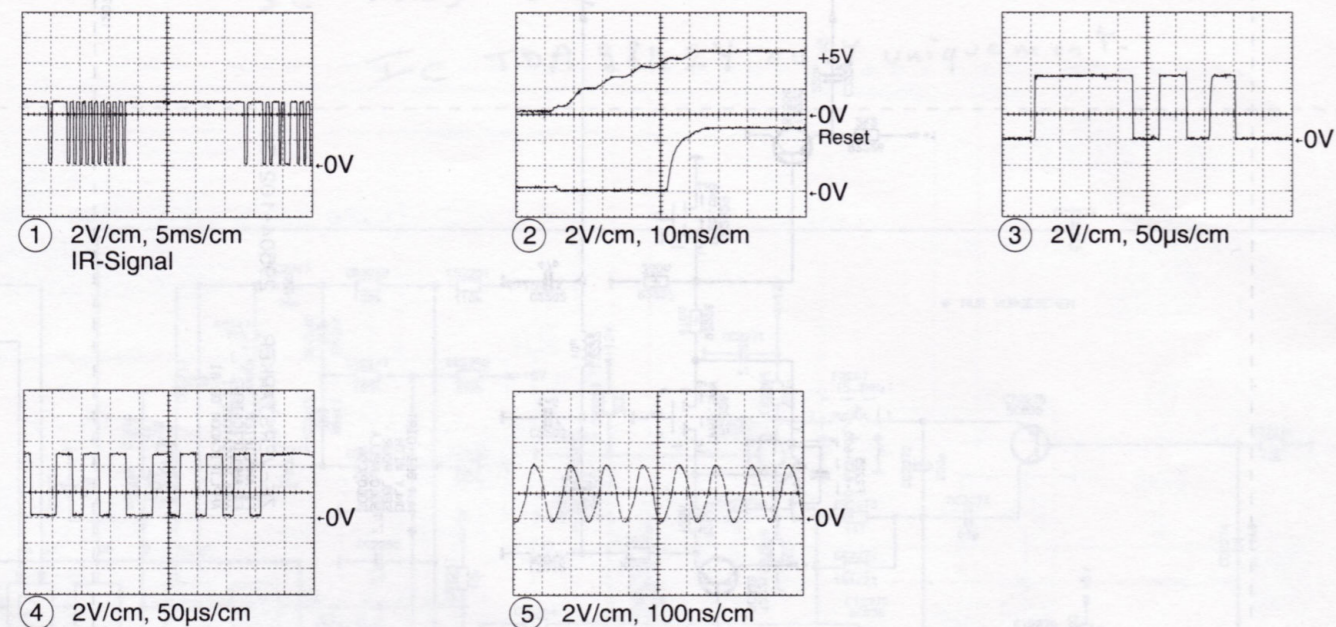
TUNER 29504-201.21  
29504-231.21



# Abstimmbaustein / Tuning Module

Servicearbeiten nach Bausteinwechsel: siehe Abgleich Seite 3-1...3-2 (1.6, 1.8)  
Servicing work after replacing the module: see alignment page 3-4 (1.6, 1.8)

ST 72-762/9TOP => EPROM: 1979826509

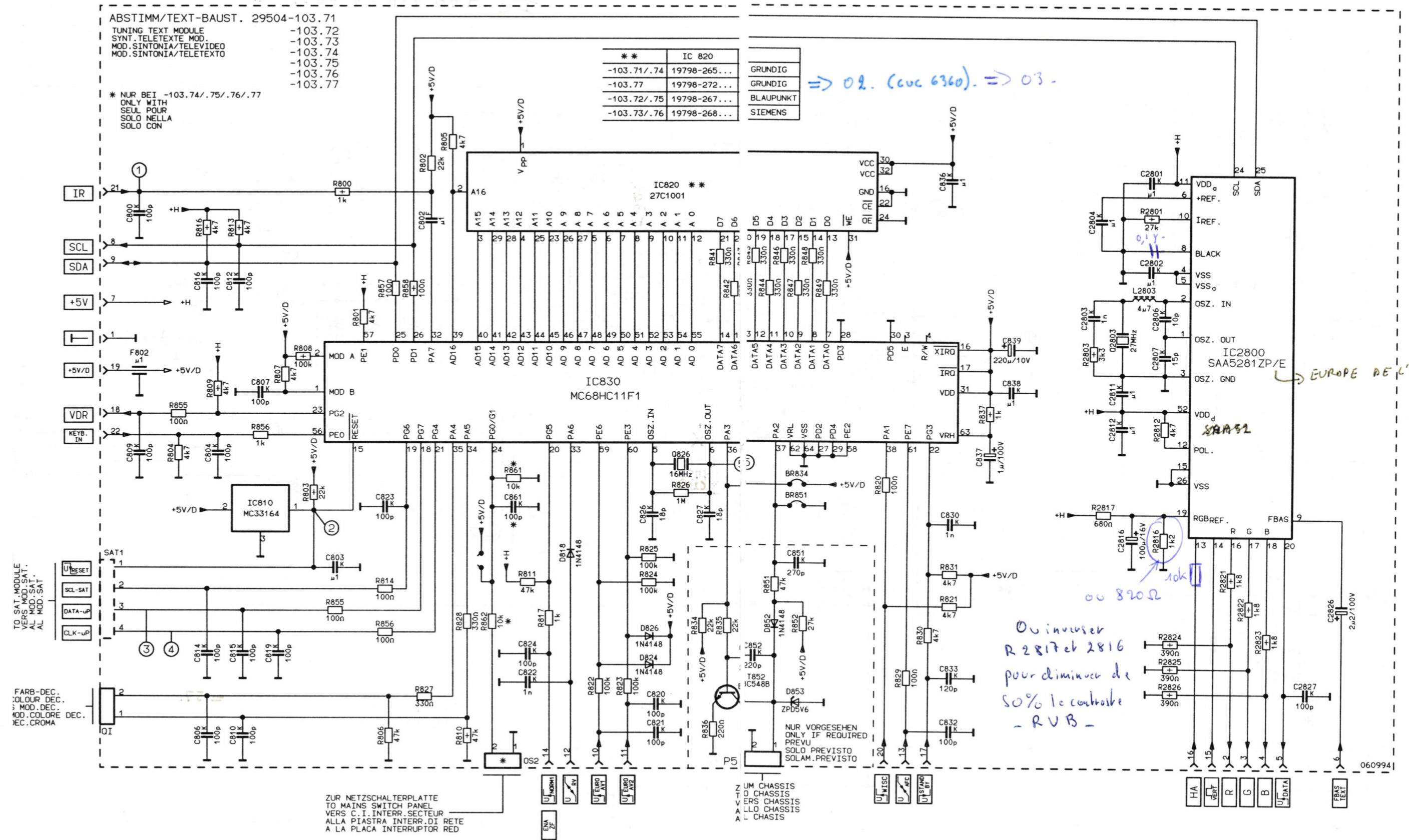


ABSTIMM/TEXT-BAUST. 29504-103.71  
 TUNING TEXT MODULE -103.72  
 SYNT. TELETEXTE MOD. -103.73  
 MOD. SINTONIA/TELEVIDEO -103.74  
 MOD. SINTONIA/TELETEXTO -103.75  
 -103.76  
 -103.77

\* NUR BEI -103.74/.75/.76/.77  
 ONLY WITH  
 SEL. POUR  
 SOLO NELLA  
 SOLO CON

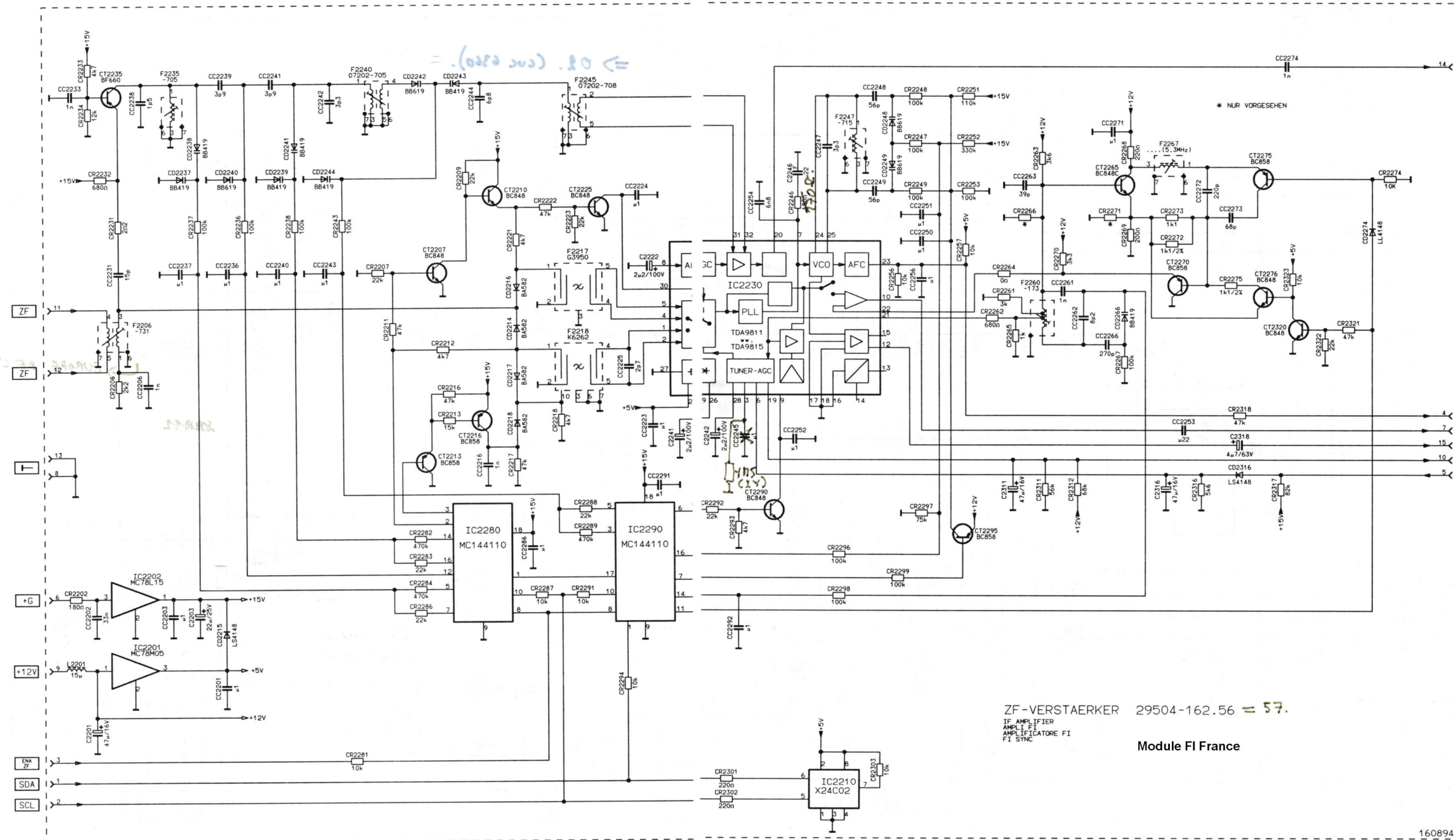
**	IC 820	
-103.71/.74	19798-265...	GRUNDIG
-103.77	19798-272...	GRUNDIG
-103.72/.75	19798-267...	BLAUPUNKT
-103.73/.76	19798-268...	SIEMENS

=> 02. (CUC 6360). => 03.



ZF-Verstärker / IF Amplifier

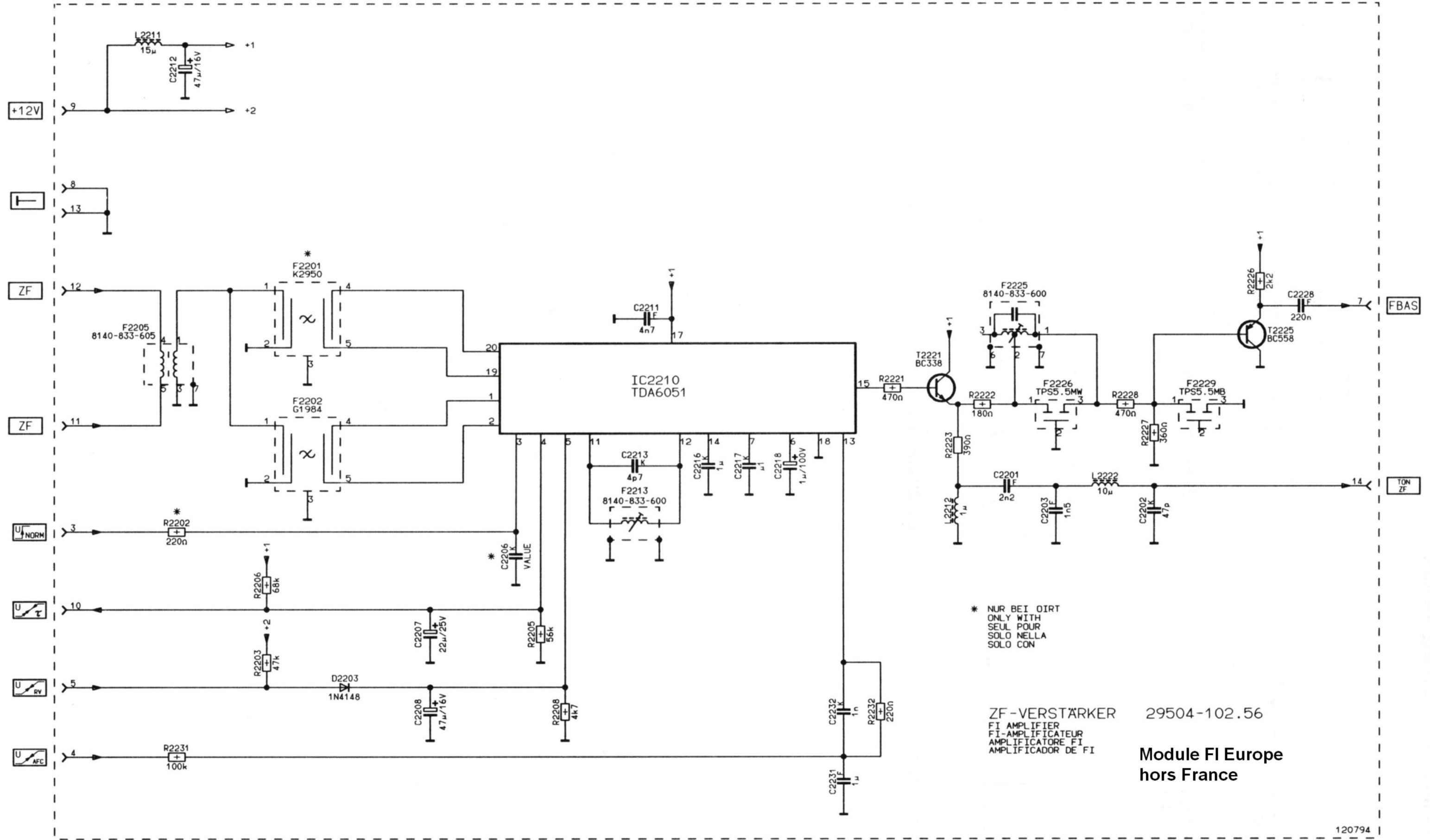
Servicearbeiten nach Bausteinwechsel: siehe Abgleich Seite 3-1 (1.5)  
Servicing work after replacing the module: see alignment page 3-3 (1.5)



ZF-VERSTÄRKER 29504-162.56 = 57.  
Module FI France

160894

IC 2Y => di'Fault c.t. Surmodulation.  
IC 2Y => di'Fault effct de dvapau.  
IC 3Y => OK.  
IC TDA 9811 2Y ou 3Y uniquement.



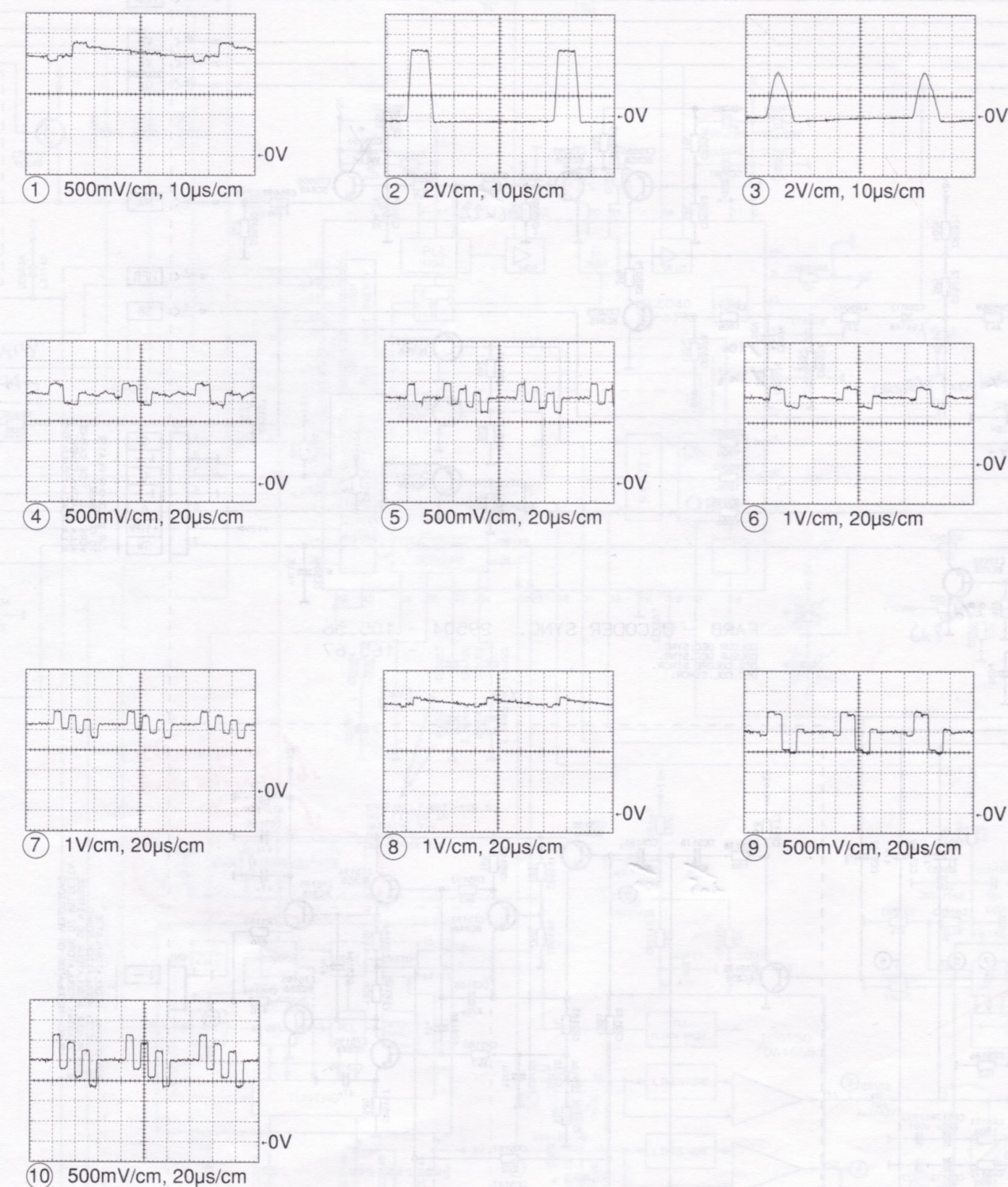
\* NUR BEI OIRT  
ONLY WITH  
SEUL POUR  
SOLO NELLA  
SOLO CON

ZF-VERSTÄRKER 29504-102.56  
FI AMPLIFIER  
FI-AMPLIFICATEUR  
AMPLIFICATORE FI  
AMPLIFICADOR DE FI  
Module FI Europe  
hors France

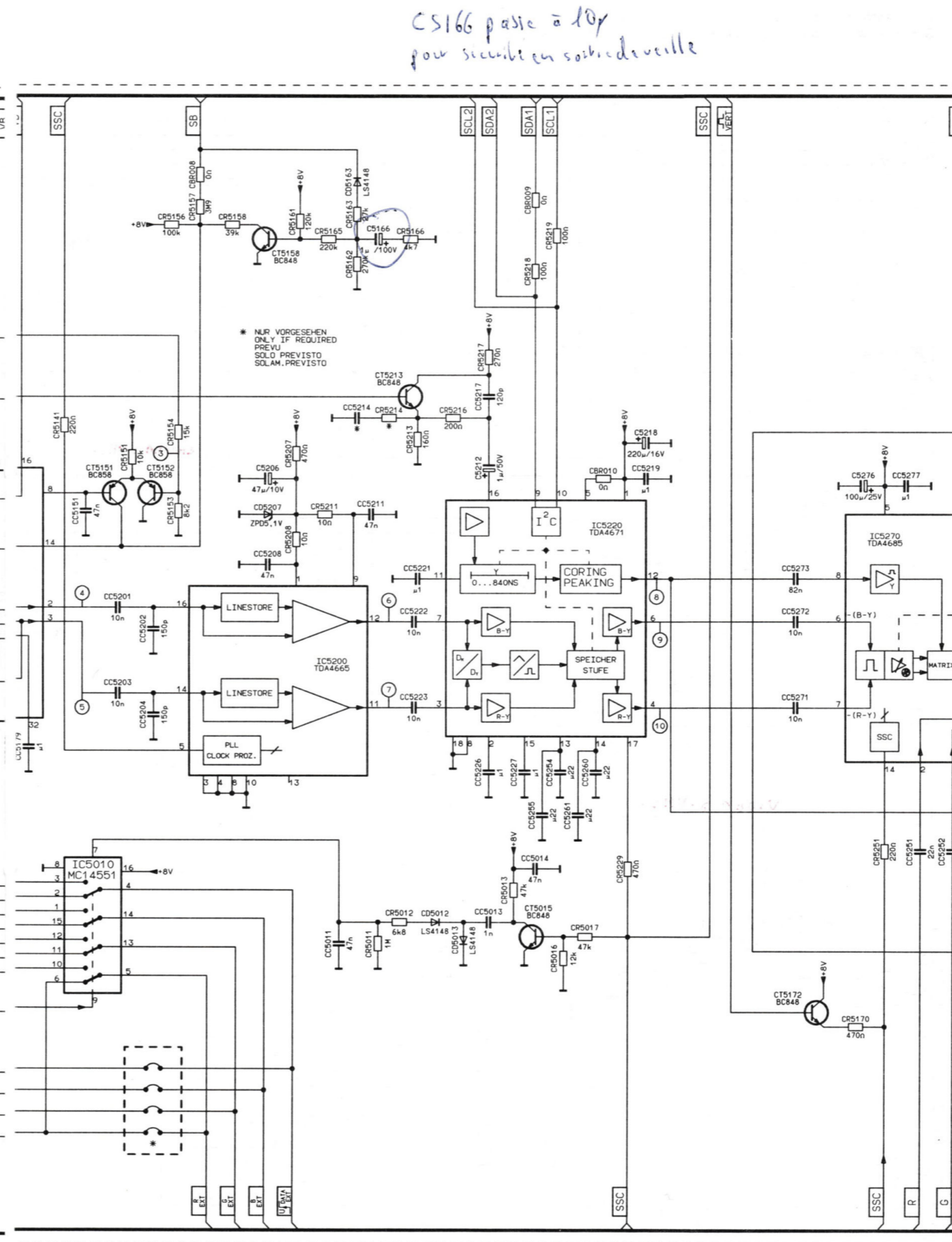
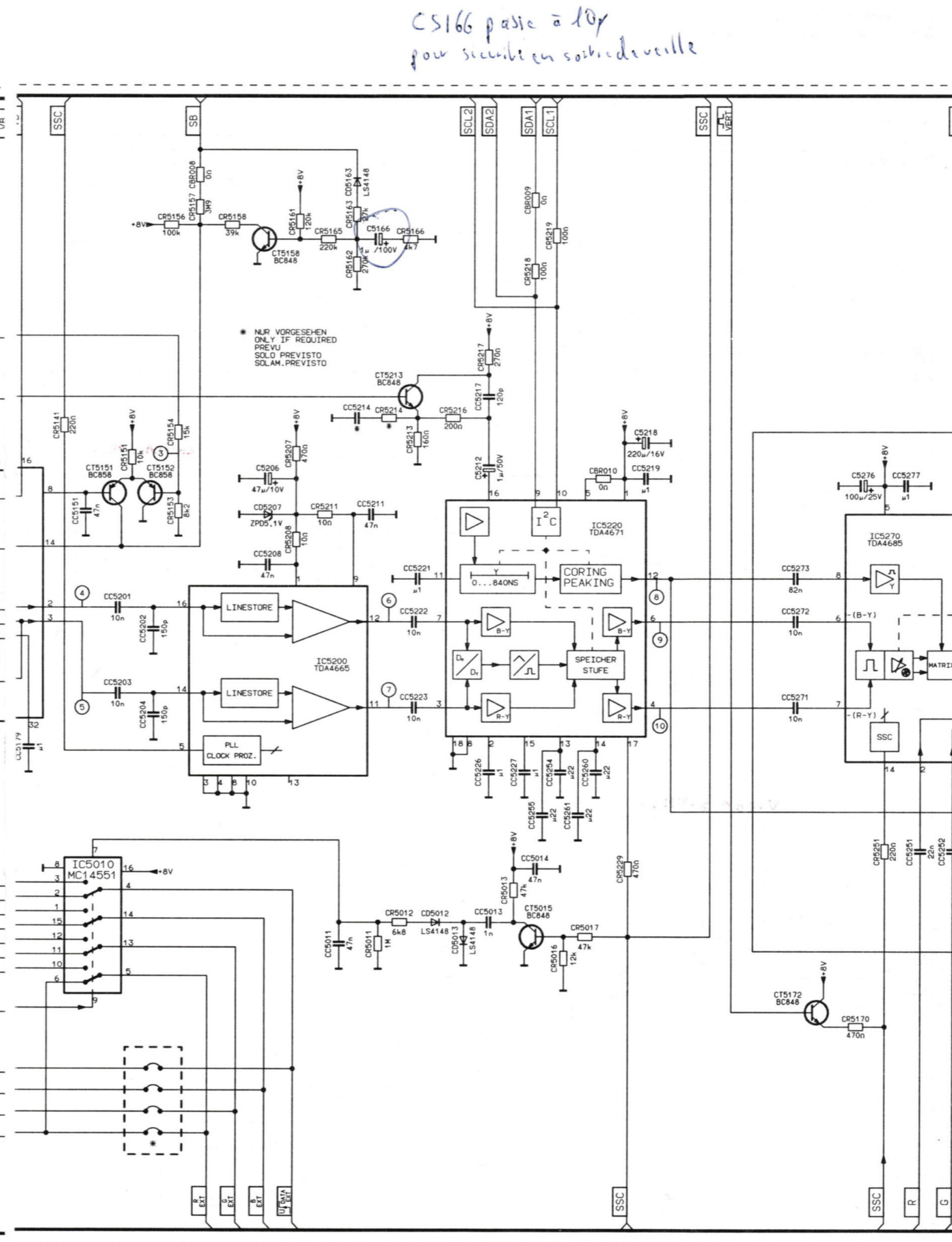
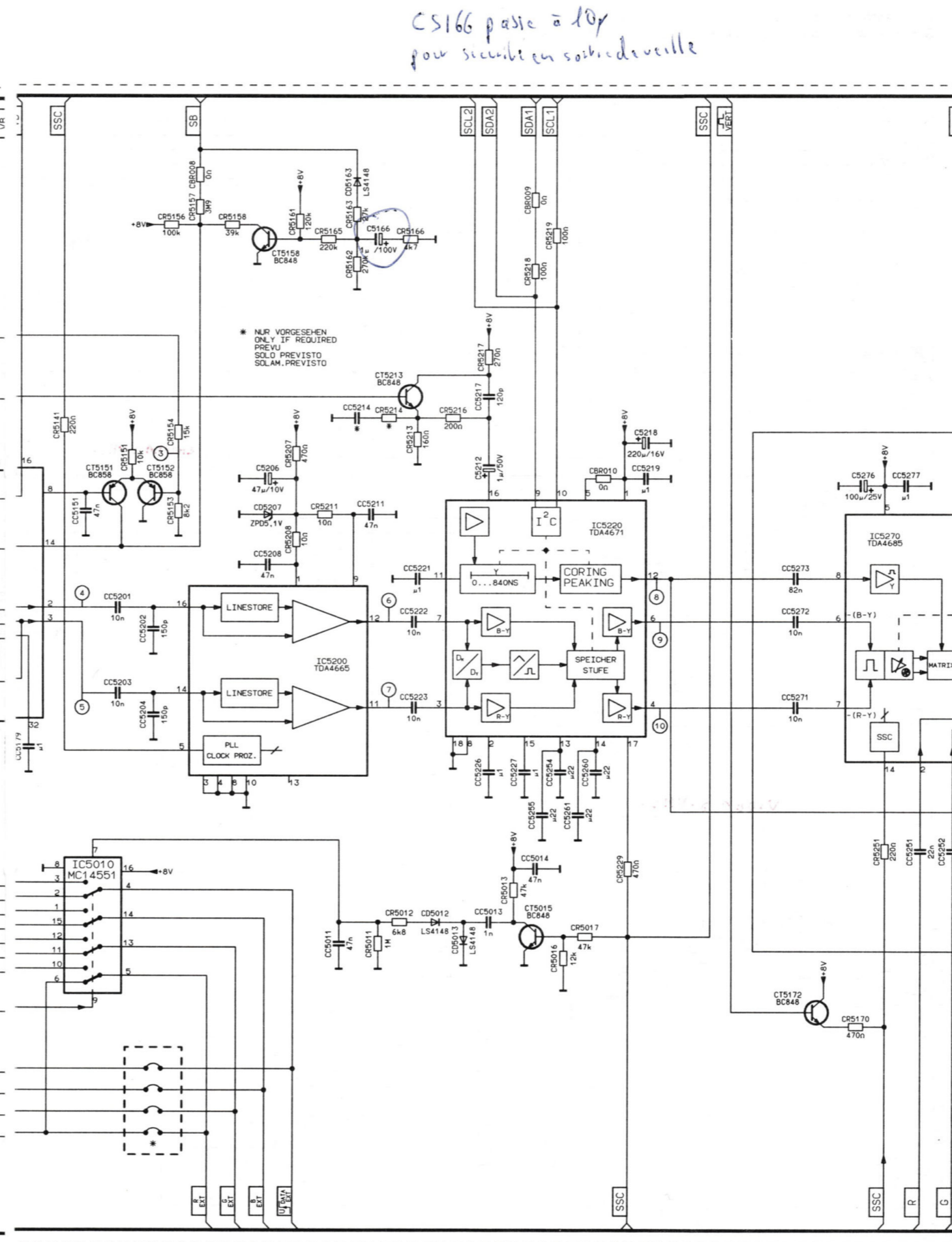
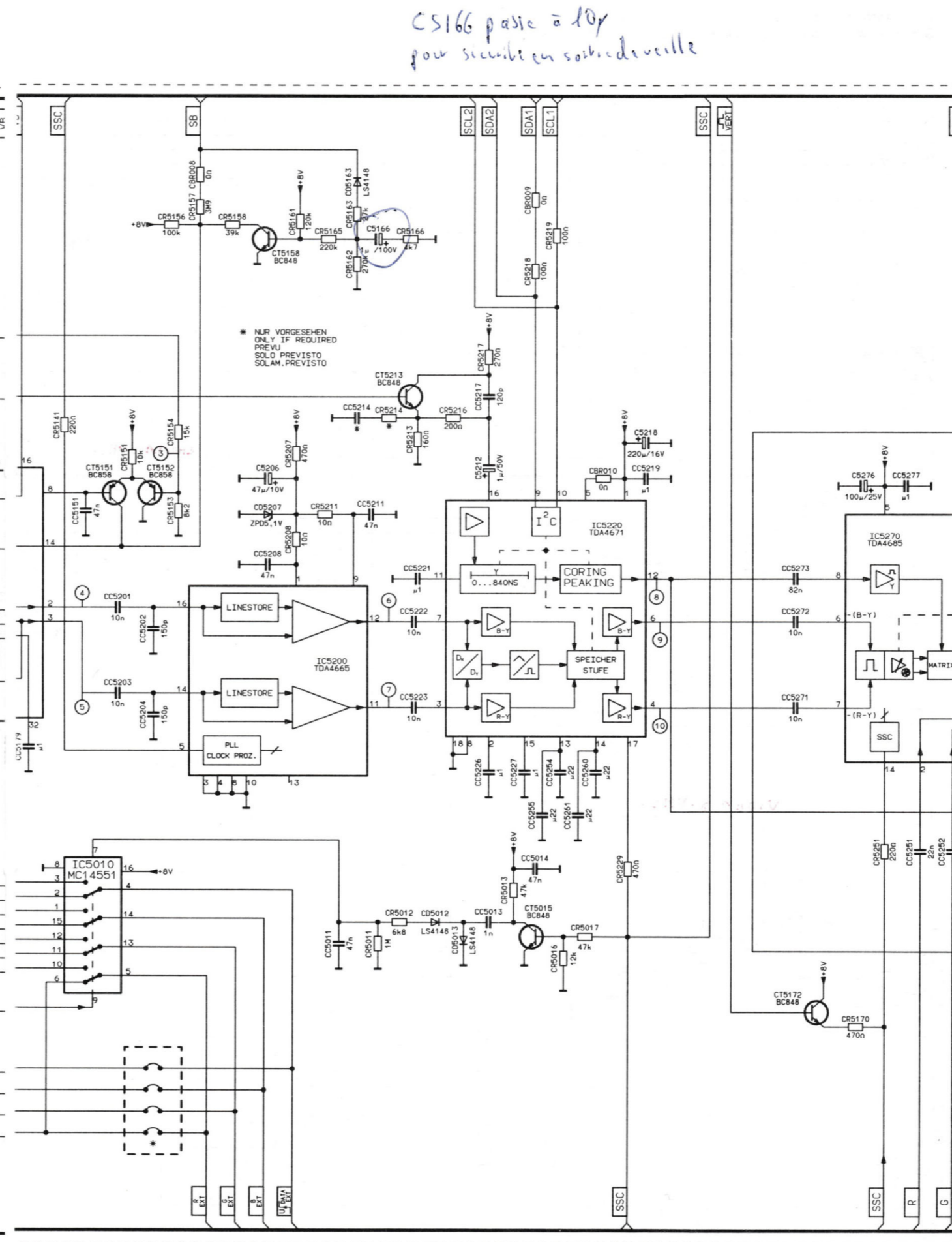
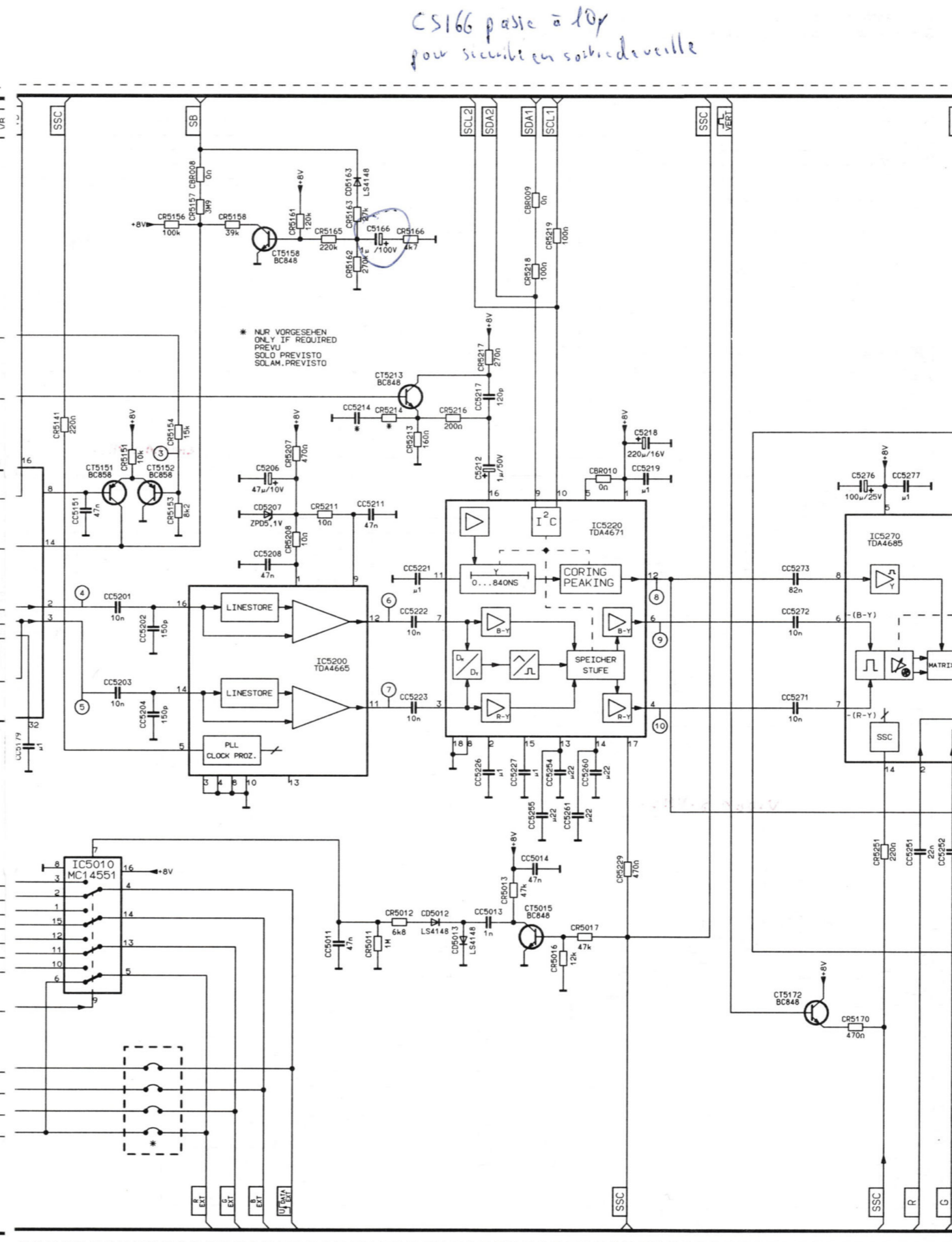
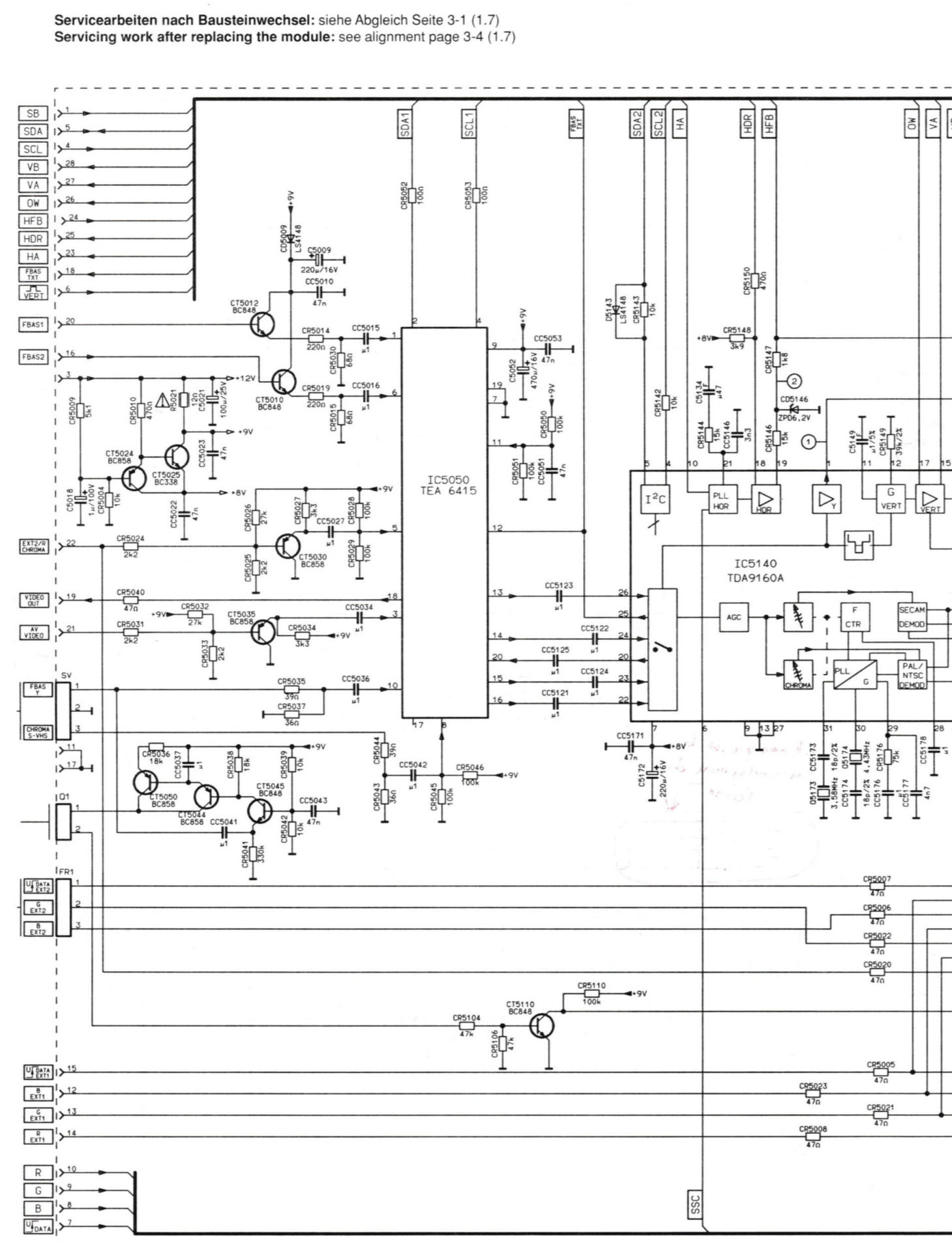
120794



Farb-Decoder Sync. / Colour Dec. Sync. 29504-165.68

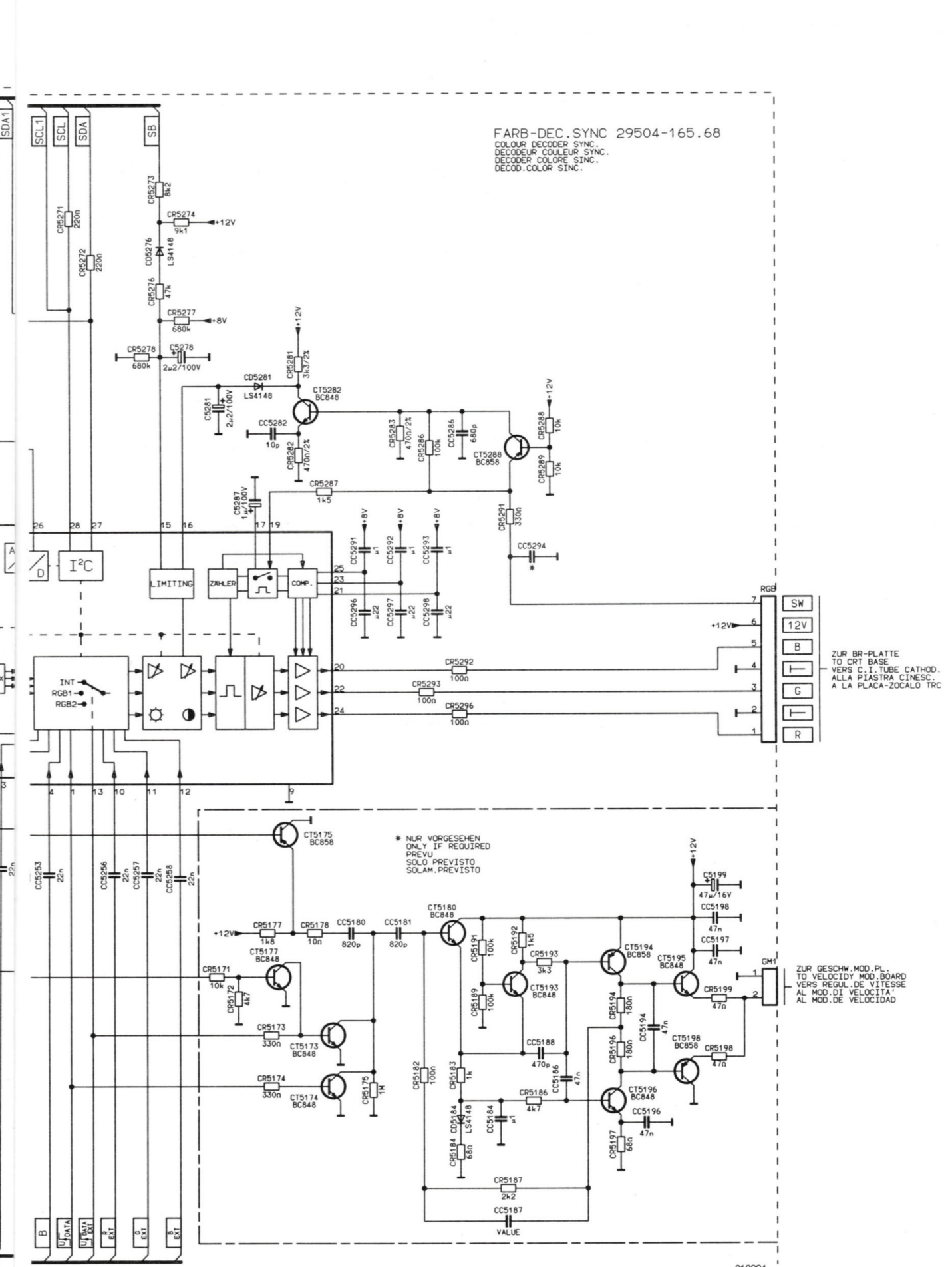


ZUM BESTIMMUNGSPUNKT:  
 ZUR BEDIENTHEILENETZSCHALTERPLATE  
 VERS MOD. UNTERE  
 VERS WHITE DE COMMAND CENTER SECTEUR  
 AL. MOD. DE VELOCIDAD DE Y-TESTE  
 AL. MOD. DE VELOCIDAD DE Y-TESTE  
 AL. MOD. DE VELOCIDAD DE Y-TESTE  
 AL. MOD. DE VELOCIDAD DE Y-TESTE



CS166 passe à 10p  
 pour sécurité en sortie de ville

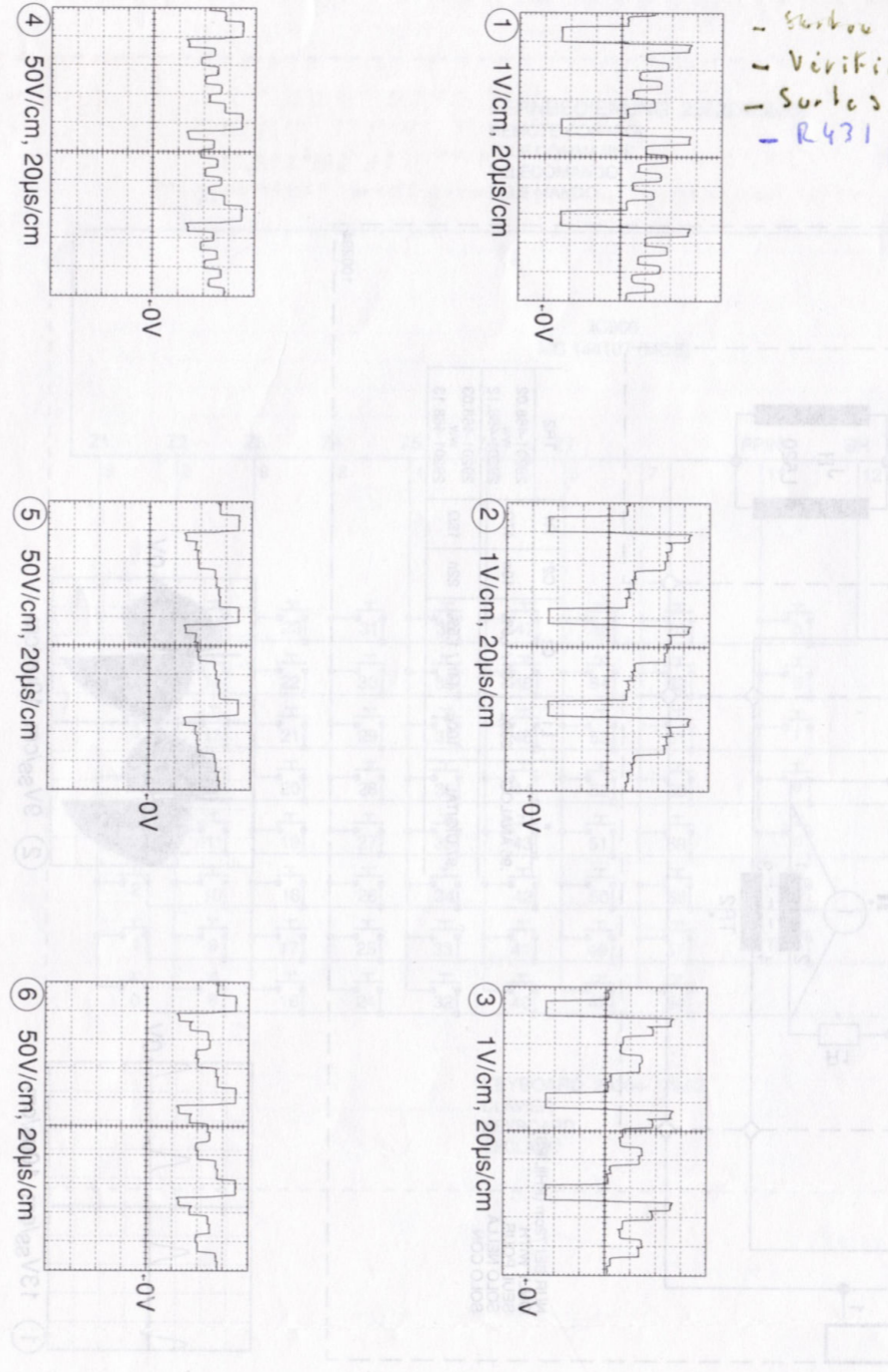
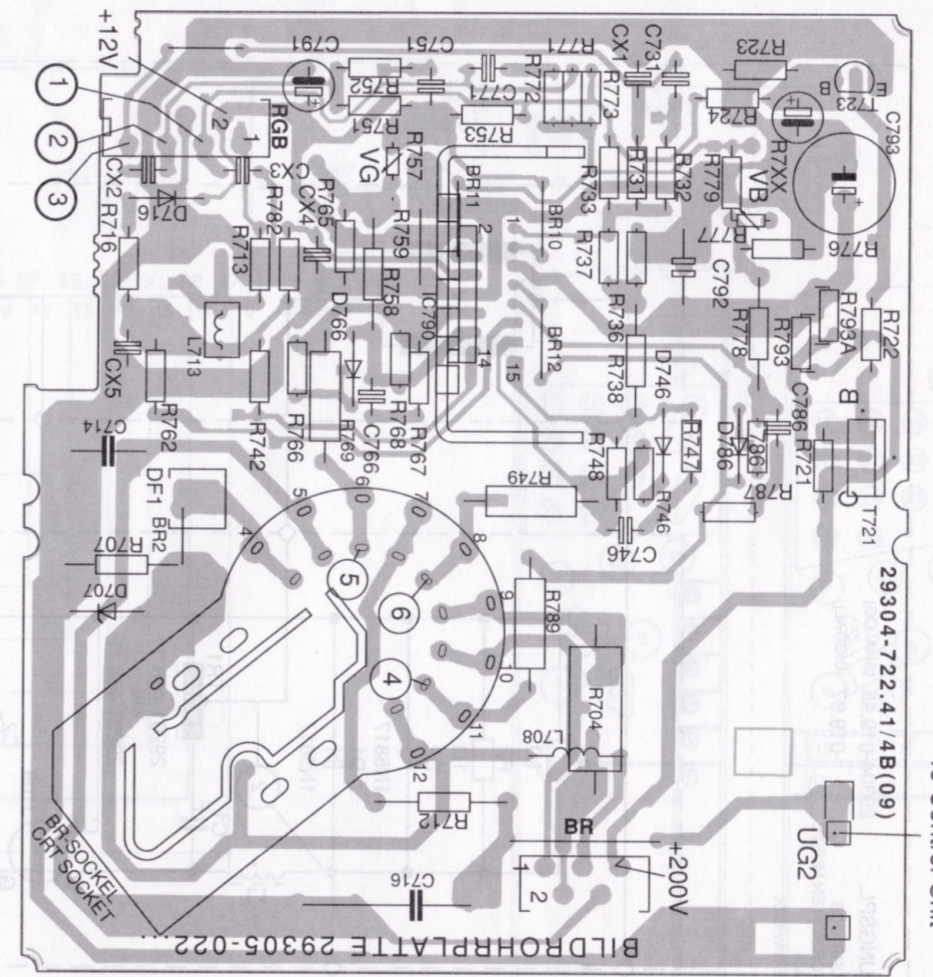
FARB-DEC. SYNC 29504-165.68  
 COLOUR DECODER SYNC.  
 DECODER COULEUR SYNC.  
 DECODER COLORE SYNC.  
 DECODER COLOR SYNC.



ZUR BR-PLATE  
 TO CRT BASE  
 VERS C-1 TUBE CATHOD.  
 ALLA PIASTRA CINES.  
 AL. MOD. DI VELOCITA' TRC

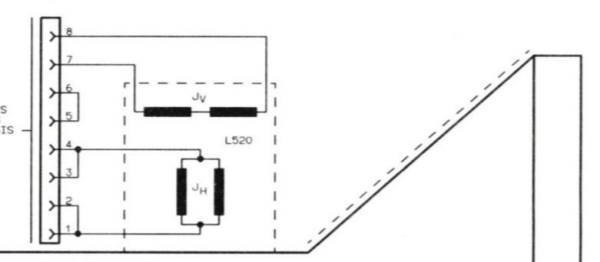
ZUR GESCHW. MOD. PL.  
 TO VELOCITY MOD. BOARD  
 VERS REGAL. DE VITESSE  
 AL. MOD. DI VELOCITA'  
 AL. MOD. DE VELOCIDAD

- Sur les cables uniquement un TEA 5101 A/D. Ref: 8305365102  
 - Vérifier sur pin 5 ⇒ U = 200V. Si > 210V R 743 passe de 330Ω à 4kΩ.  
 - Sur les G1 on doit avoir lors de l'extraction -120V au lieu de -200V.  
 - R 431 passe de 10 à 33Ω



Bildrohrlatte / CRT Panel

Servicearbeiten nach Bausteinwechsel: siehe Abgleich Seite 3-1 (1.2, 1.7)  
 Servicing work after replacing the module: see alignment page 3-3...3-4 (1.2, 1.7)

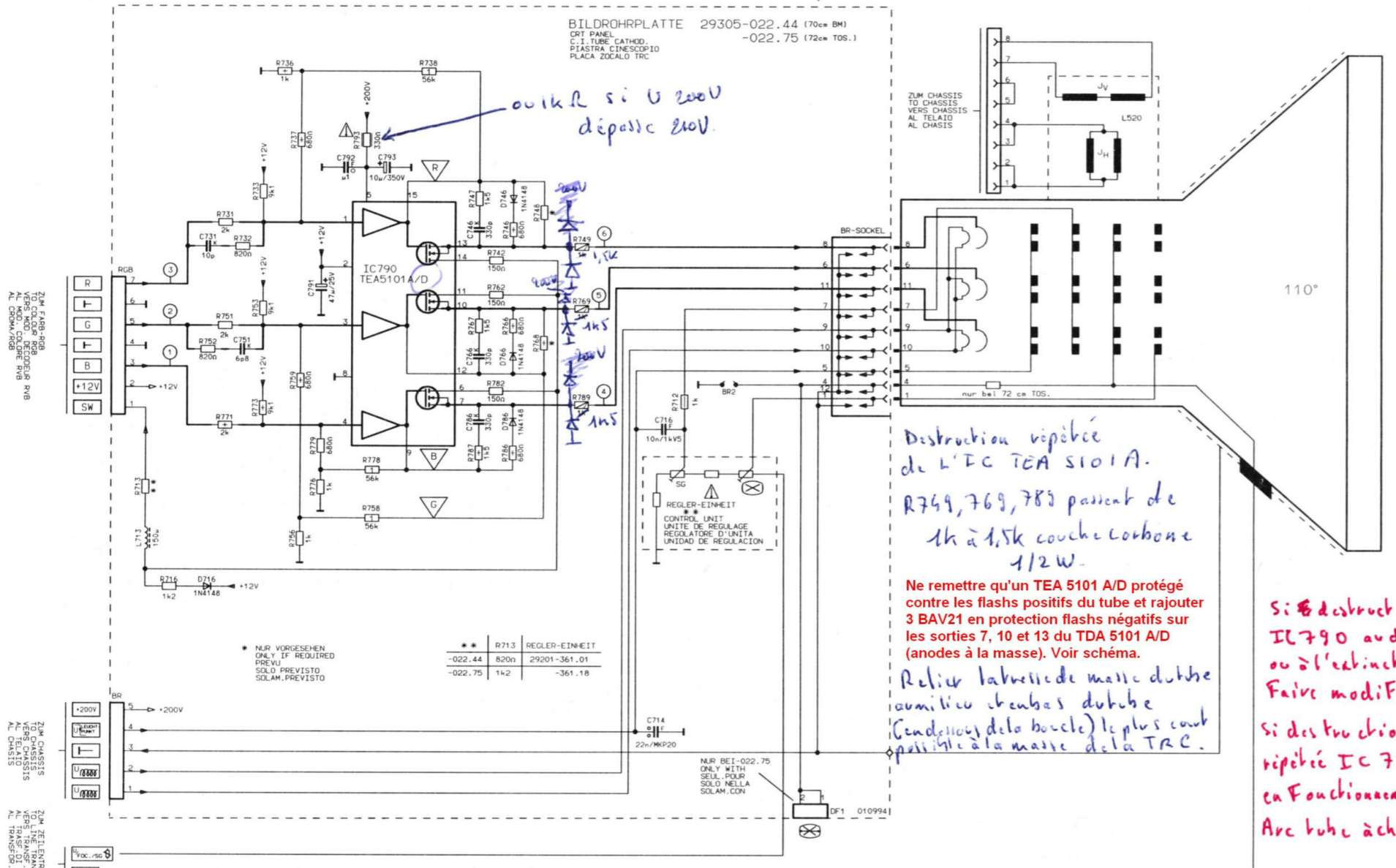


Destruction répétée de L'IC TEA 5101 A. R749, 769, 789 passent de 1k à 1,5k couche carbone 1/2W.

Ne remettre qu'un TEA 5101 A/D protégé contre les flashes positifs du tube et rajouter 3 BAV21 en protection flashes négatifs sur les sorties 7, 10 et 13 du TEA 5101 A/D (anodes à la masse). Voir schéma.

Relier la tresse de masse du tube au milieu des bords du tube (condensateur de la boucle) le plus court possible à la masse de la TRC.

Si destruction IC 790 au démarrage ou à l'extraction. Faire modifs. Si destruction répétée IC 790 en fonctionnement. Arc tube à changer.



BILDROHRPLATTE 29305-022.44 (70cm BM)  
 CRT PANEL  
 P.I. TUBE CATHOD.  
 PIASTRA CINESCOPIO  
 PLACA ZOCALO TRC  
 -022.75 (72cm TOS.)

ou 4kΩ si U 200V dépassé 210V.

	R713	REGLER-EINHEIT
**	-022.44	820Ω
	-022.75	1k2
		29201-361.01
		-361.18

Nouvelles modifications pour destruction répétée de L'IC 790 (soit TEA 5101 A, soit TEA 5101 A/D).  
 - R769, 749, 789 carbone passent de 1k à 1k5.  
 - Relier la tresse de masse du tube en dessous du diFlecteur au chassis métallique - Cordon le plus court possible avec colle Femelle.  
 - Sur TRC, D707 doit être câblé par une BAV 21 (cathode à la masse du graphitage)  
 - Voir modif pour diminution blocage G-L.  
 - Câbler 3 diodes BAV 21 directement depuis la sortie pin 7, 10 et 13 de l'IC TEA 5101 A/D. et rien d'autre !!!

Seules modifs à effectuer.

# Mövenentzerrungsplatte / N.S. Seagull Raster Correction Board

Module de correction Nord / Sud encore appelé correction d'ailes de mouette câblé sur la première génération de tube Philips 72cm. Cette fonction a été intégrée dans le déflecteur depuis la deuxième génération de tube cathodique Philips Black S.

Servicearbeiten nach Bausteinwechsel: keine  
 Servicing work after replacing the module: none

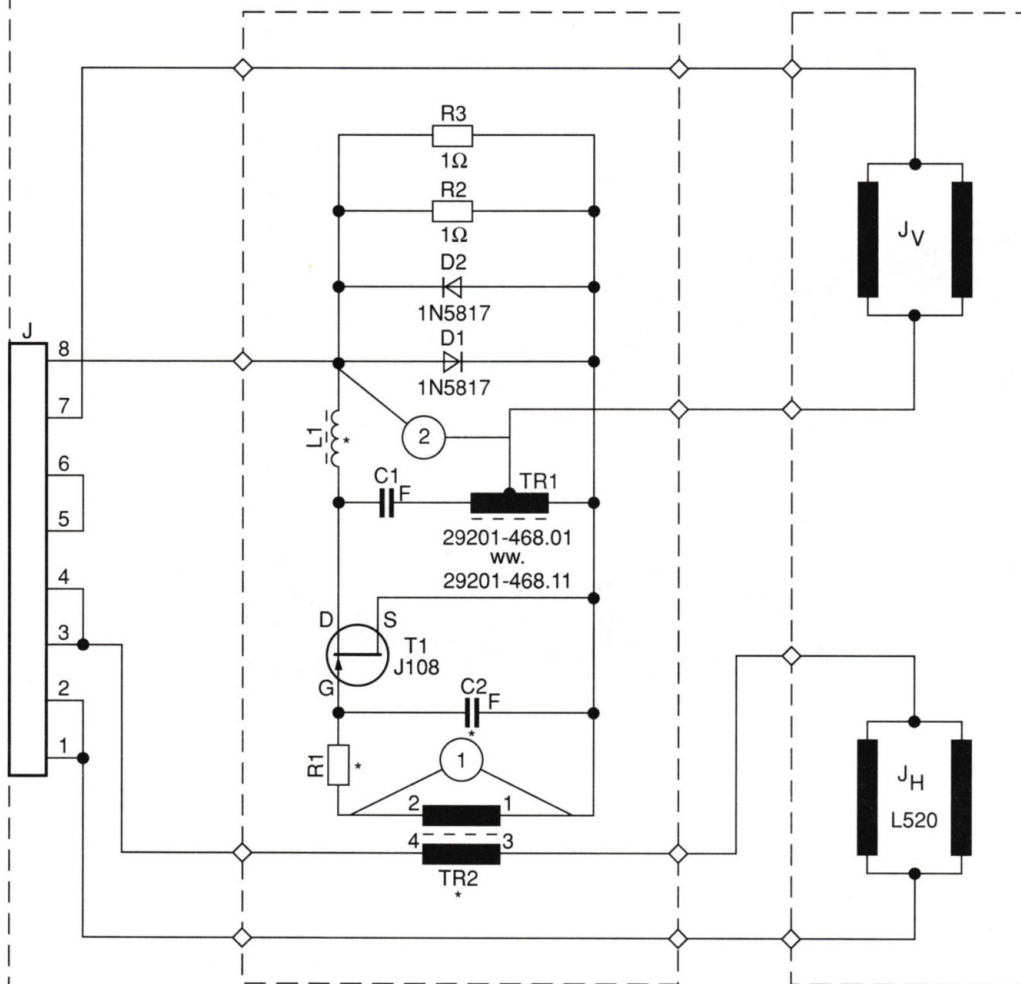
MOEVEN-ENTZERRUNGSPL. 29304-019.95 (ANALOG)

N.S. SEA GULL RASTER CORR. PCB -019.97 (DIGITAL)

C.I. CORRECTION DE DISTORSION EN MUETE

PIASTRA DI CORR. GABBIANI

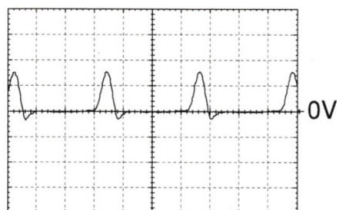
PLACA DE CORRECCION DE GAVIOTA



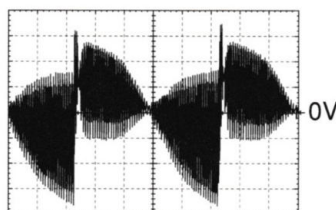
NUR BEI 72cm (PHILIPS)  
 ONLY WITH  
 SEUL POUR  
 SOLO NELLA  
 SOLO CON

*	L1	C1	C2	R1	TR2
.95 ANALOG	330μ	56n / 1,5%	10n	47Ω	29201-468.02 ww. 29201-468.12
.97 DIGITAL	100μ	14n / 1,5%	22n	18Ω	29201-468.03 ww. 29201-468.13

100294

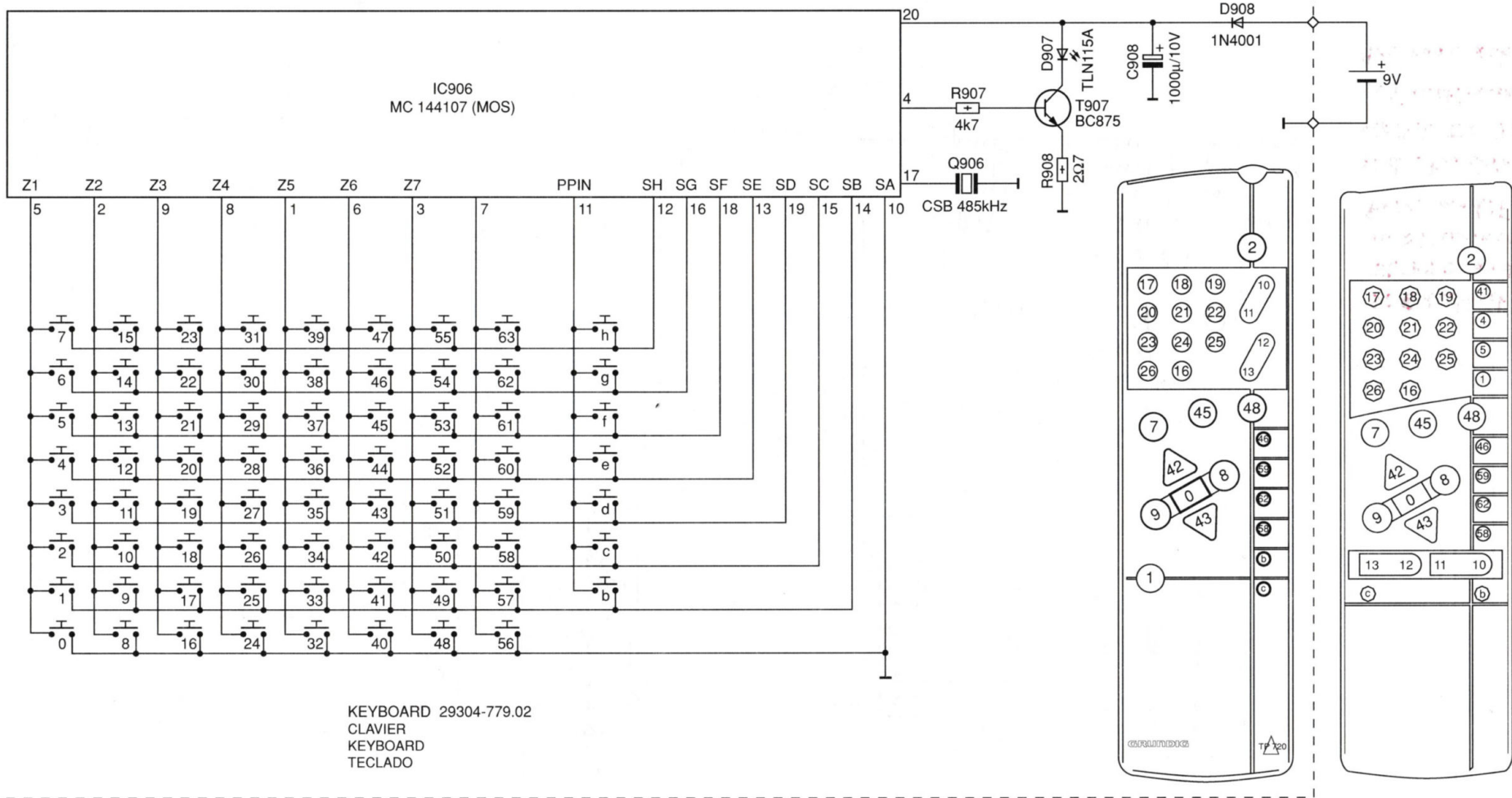


① 13V<sub>SS</sub>/cm, 10μs/cm



② 9V<sub>SS</sub>/cm, 10μs/cm

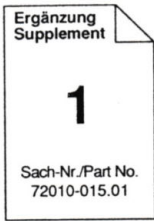
FERNBEDIENUNG 29622-059.06  
 REMOTE CONTROL  
 TELE COMMANDE  
 TELECOMANDO  
 TELE MANDO



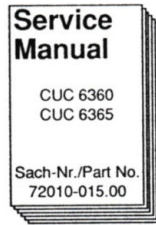




ⓓ Btx \* 32700 #



Zusätzlich erforderliche Unterlagen für den Komplettservice:  
 Additionally required Service Manuals for the Complete Service:



## CUC 6360 CUC 6365

### CUC 6360:

Hamburg ST 770/9 TOP	(9.21375-02 / GCB 3391)
ST 63-750/9 TOP	(9.21349-02 / GCA 3775)
ST 70-750/9 TOP	(9.21351-02 / GCA 3575)
Greenville 70 ST 1770 TOP	(9.21391-01 / GCB 3675)

### CUC 6365:

M 63-776/9 TOP	(9.21367-02 / GCA 8690)
ST 72-762 TOP	(9.21397-01 / GCB 7069)
ST 72-762/9 TOP	(9.21397-02 / GCB 6969)

ⓓ

Für diese Geräte gilt das Service Manual CUC 6360 / 6365. Dieses Manual beinhaltet die Unterschiede bzw. zusätzlichen Bestückungen der Geräte. Die Bausteinbestückung und die Sachnummern der einzelnen Bausteine entnehmen Sie bitte der Tabelle Seite 3. Grundlage für den Service sind:  
 – Sicherheitsvorschriften (Sach-Nr. 72010-800.00)  
 – Service Manual CUC 6360 / 6365 (Sach-Nr. 72010-015.00)

ⓖⓑ

For these TV sets the Service Manual CUC 6360 / 6365 is applicable. This Manual contains the differences and the additionally fitted modules of the TV receivers. The individual modules and the relevant part numbers are listed in the table on page 3. Basic instructions for servicing are given in the:  
 – Safety Instructions (Part No. 72010-800.00)  
 – Service Manual CUC 6360 / 6365 (Part No. 72010-015.00)

**Zusätzliche Sonderfunktion bei CUC 6360 / 6365:**  
 Ein erneuerter oder falsch beschriebener CIC3805 (SAT-Baustein) kann mit den Fertigungsgrunddaten der TV-Sendertabelle geladen werden. Taste **i** der Fernbedienung gedrückt halten bis nach Einschalten mit dem Netzschalter die Sendertabelle erscheint.  
**Achtung!** Die Satellitendaten (Frequenz, Hub, Ton) werden erst nach einem erneuten Einschalten mit dem Netzschalter in das CIC3805 geschrieben.

**Additional Special Function of CUC 6360 / 6365:**  
 If new or wrong data has been entered into CIC3805 (SAT module) it is possible to download the factory default TV station table. Whilst pressing the **i** button on the RC handset switch the TV on with the mains switch. Hold the button down until the station table appears.  
**Attention!** The satellite data (frequency, deviation, sound) will be downloaded into CIC3805 only when re-starting the TV with the mains switch.

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# Bedieneinheit 29501-080.93 / 29501-082.02

## Control Unit 29501-080.93 / 29501-082.02

