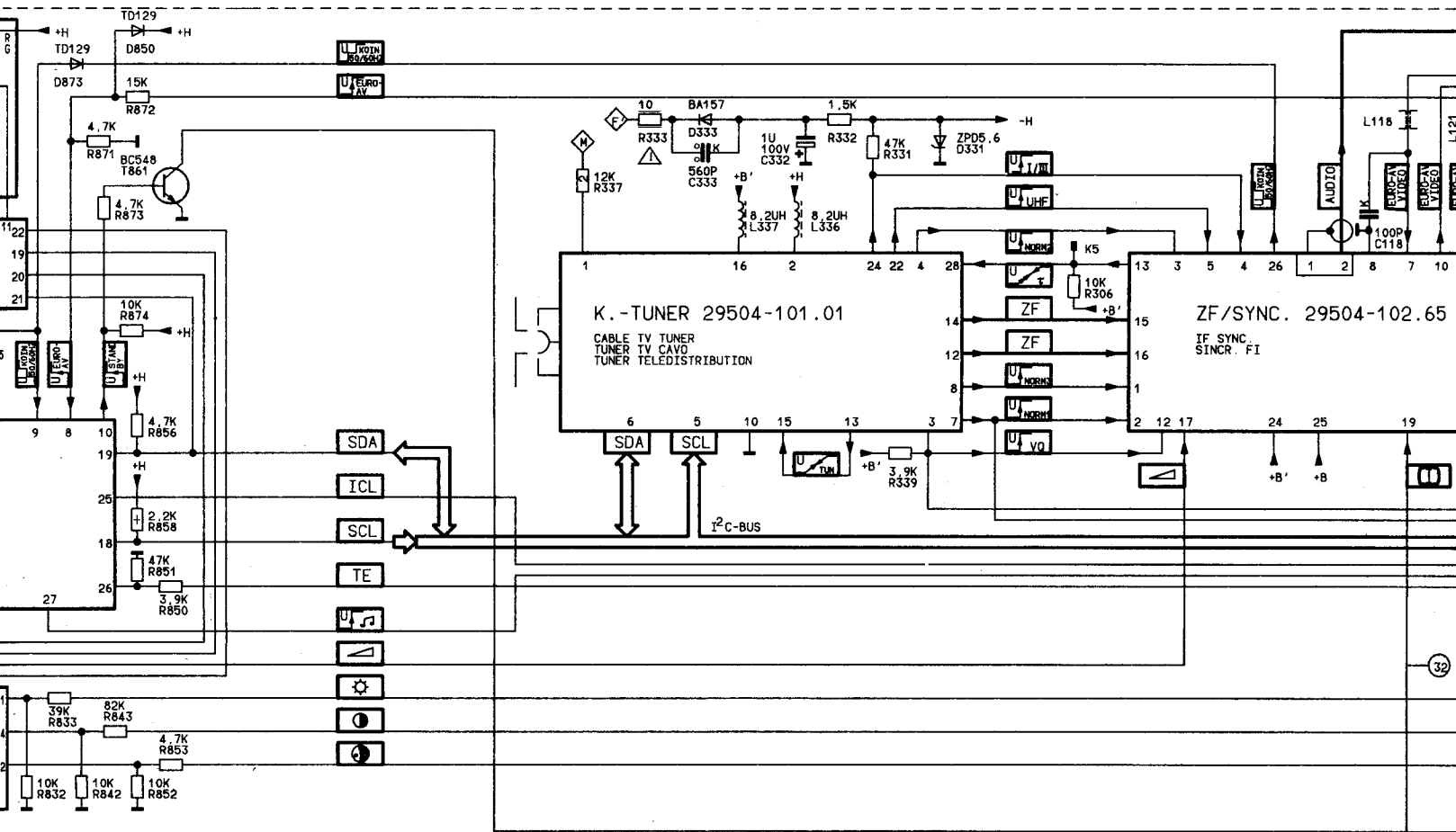


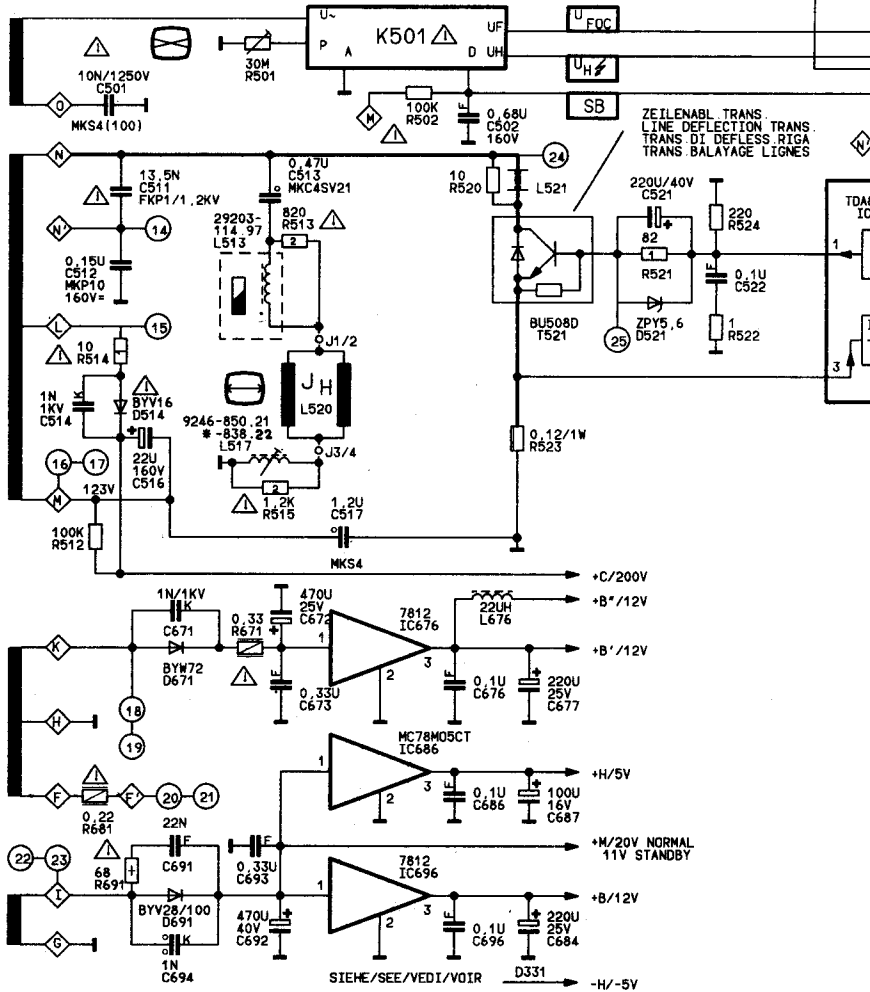
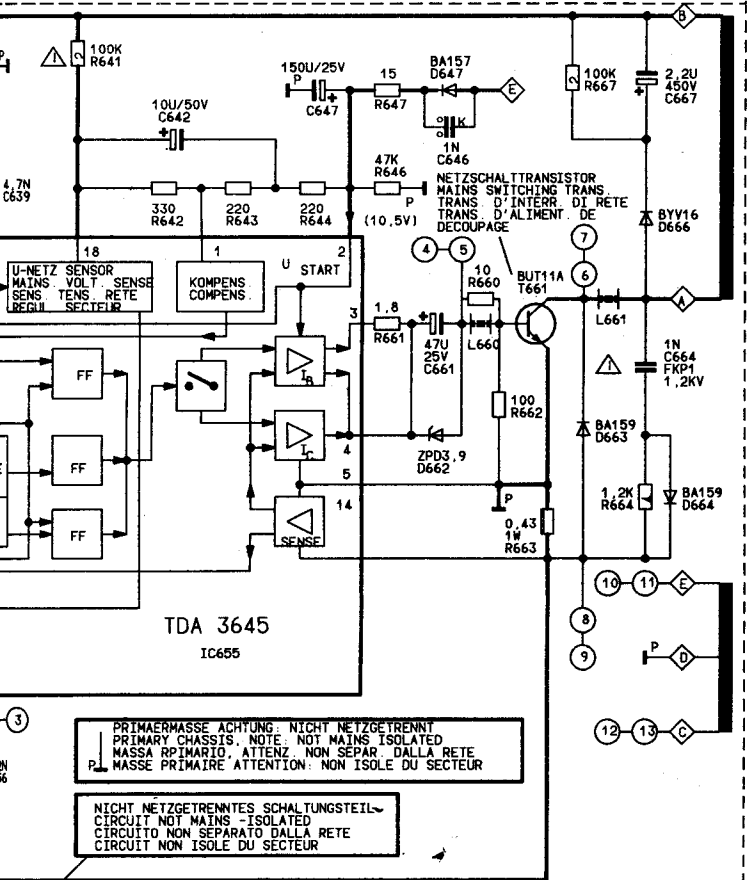
PRIMÄRMASSE ACHTUNG: NICHT  
 PRIMARY CHASSIS: NOTE: NOT MA  
 MASSE PRIMARIO: ATTENZIONE: NON  
 P. MASSE PRIMARIA: ATTENZIONE: NON

NICHT NETZGETRENNTES SCHALTUNG  
 CIRCUIT NOT MAINS-ISOLATED  
 CIRCUITO NON SEPARATO DALLA RETE  
 CIRCUIT NON ISOLE DU SECTEUR



ZEILENETZTRAFO  
LINE TRANSFORMER  
TRASF. DI RETE DI RIGA  
TRANS. ALIMENT.  
BALAYAGE LIGNES

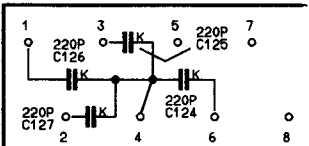
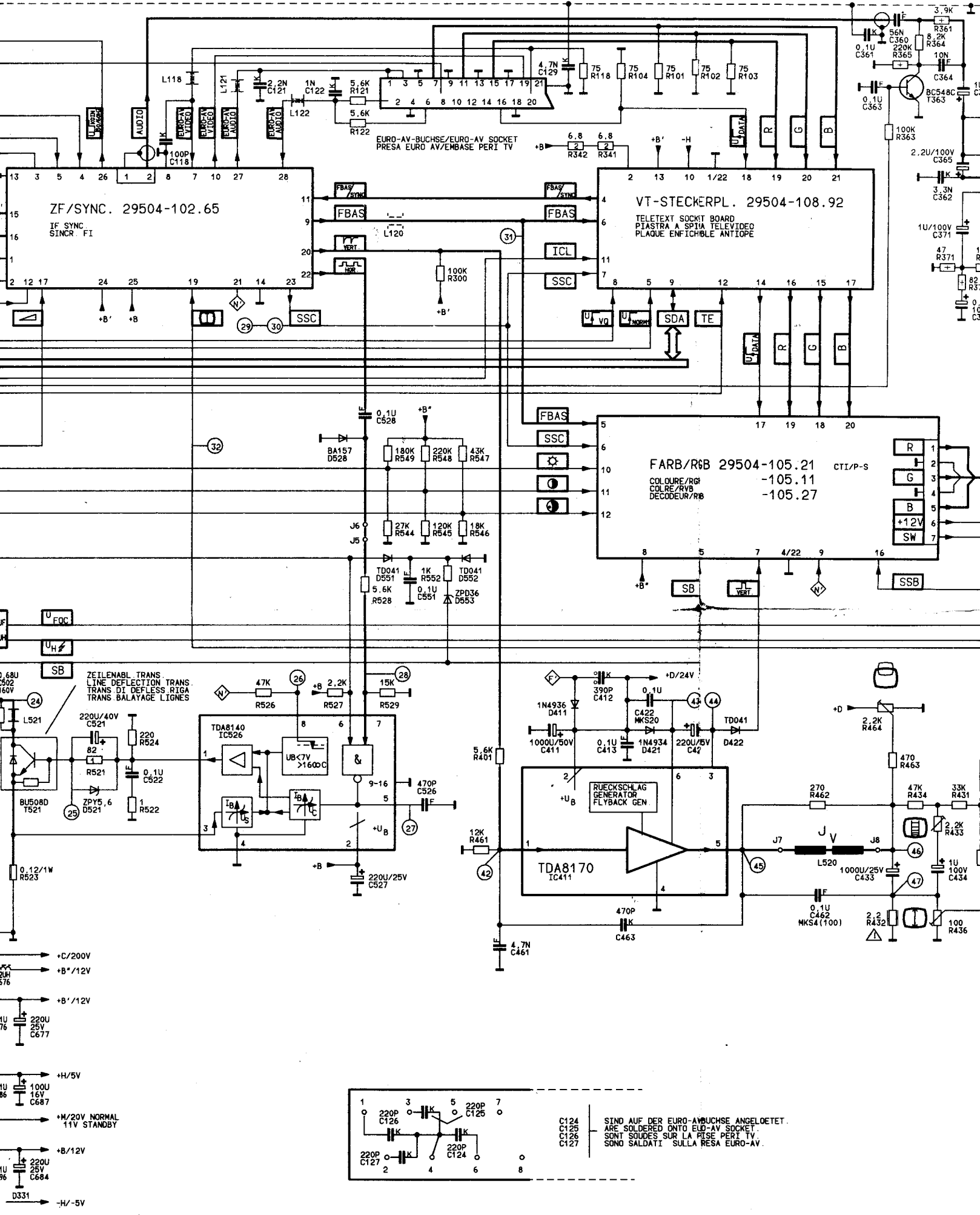
TR6651  
29201-024 041



PRIMAERHASSE ACHTUNG: NICHT NETZGETRENNT  
PRIMARY CHASSIS, NOTE: NOT MAINS ISOLATED  
MASSA PRIMARIA, ATTENZ: NON SEPAR. DALLA RETE  
P. MASSE PRIMAIRE ATTENTION: NON ISOLE DU SECTEUR

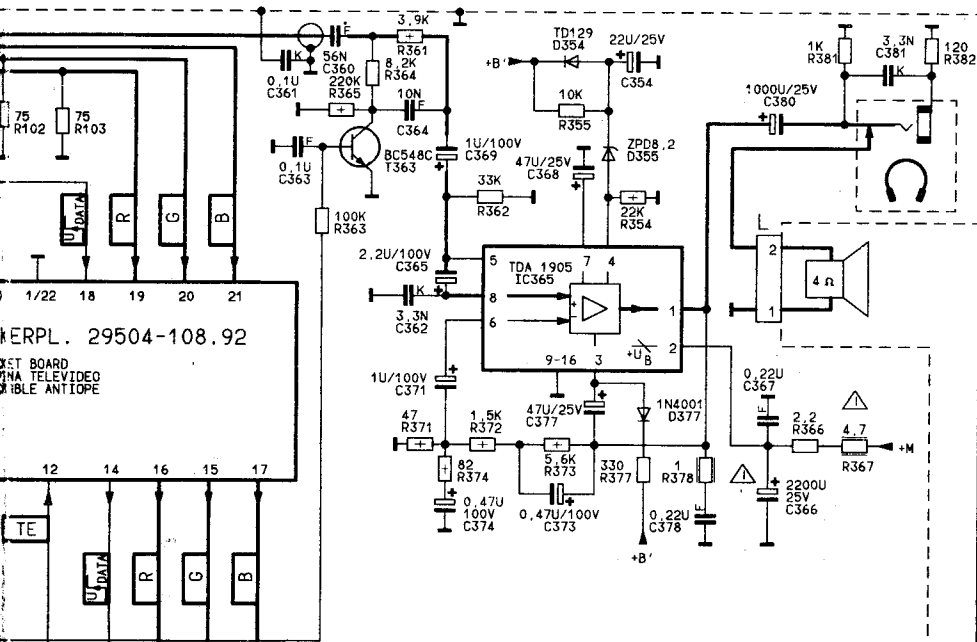
NICHT NETZGETRENNTES SCHALTUNGSTEIL  
CIRCUIT NOT MAINS ISOLATED  
CIRCUIT NON SEPARATO DALLA RETE  
CIRCUIT NON ISOLE DU SECTEUR

SIEME/SEE/VEDI/VOIR D331 -H/-5V



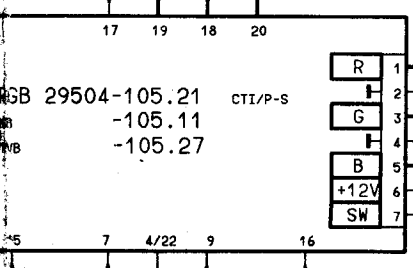
C124 SIND AUF DER EURO-AMBUCHE ANGELOETET.  
 C125 ARE SOLDERED ONTO EURO-AV SOCKET.  
 C126 SONT SOUDES SUR LA FISE PERI TV.  
 C127 SONO SALDATI SULLA RESA EURO-AV.

- +C/200V
- +B\*/12V
- +B/12V
- +H/5V
- +H/20V NORMAL 11V STANDBY
- +B/12V
- H/-5V



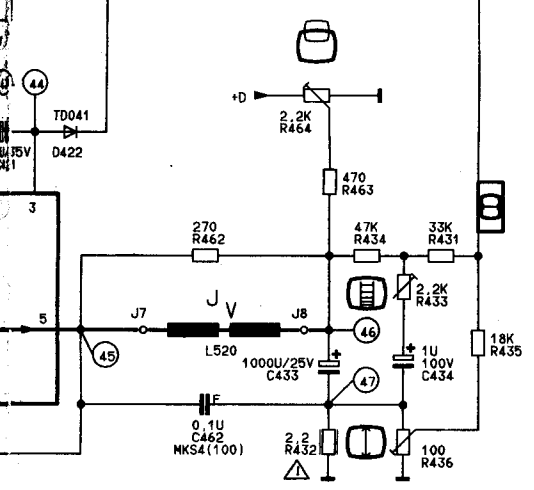
ERPL. 29504-108.92

TEST BOARD  
PIAstra TELEVIDEO  
PIAstra ANTIDIOPE



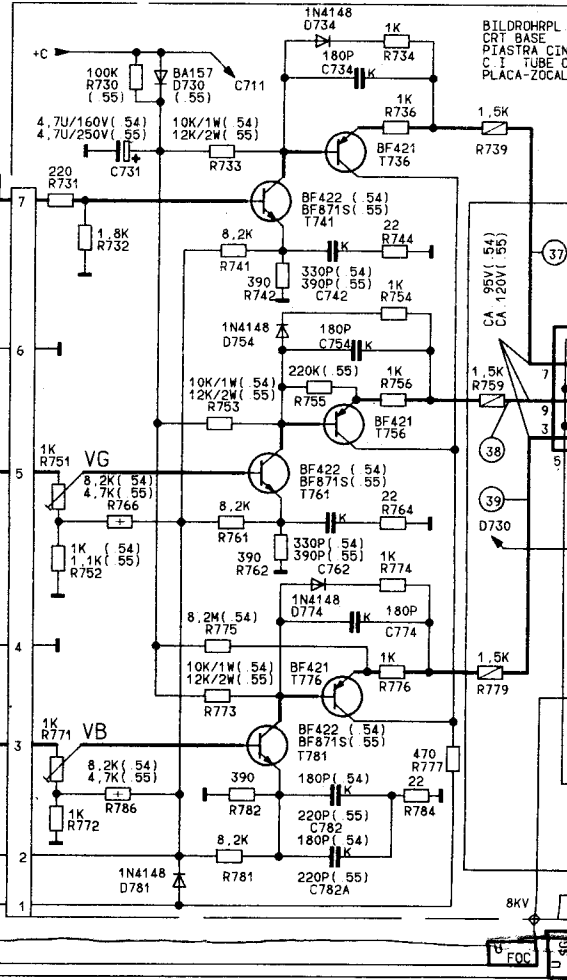
GB 29504-105.21  
-105.11  
-105.27

CT1/P-S

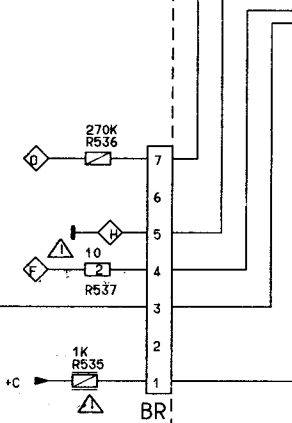


CUC 3400  
CHASSIS 29701-054 11 PAL  
-054 12 PAL/SEC  
TELAIO -054 13 PAL/SEC

BUCHSE ANGELODETET.  
VIDEO-AV SOCKET.  
PIAstra PERI TV.  
PIAstra EURO-AV.



BILDROHRPL.  
CRT BASE  
PIAstra CINE  
C.I. TUBE CA  
PLACA-ZOCAL



**(D)**

WeiBabgleich

FuBK - Testbild einspielen.  
⊖ min., ⊙ nom., ⊕ max. einstellen.  
Regler VG und VB (Bildrohrplatte) so einstellen, daB  
keine Verfärbungen in den Grauwerten sichtbar sind.

**(GB)**

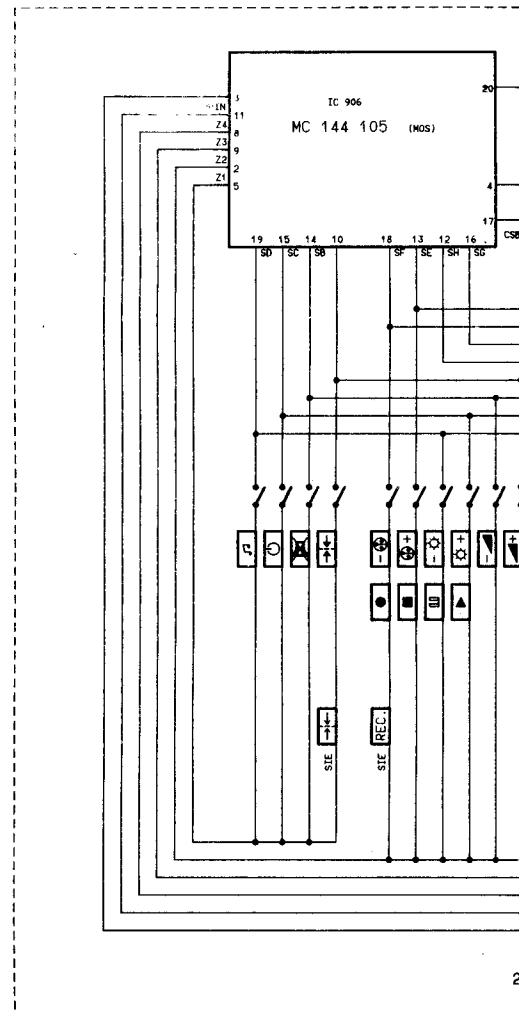
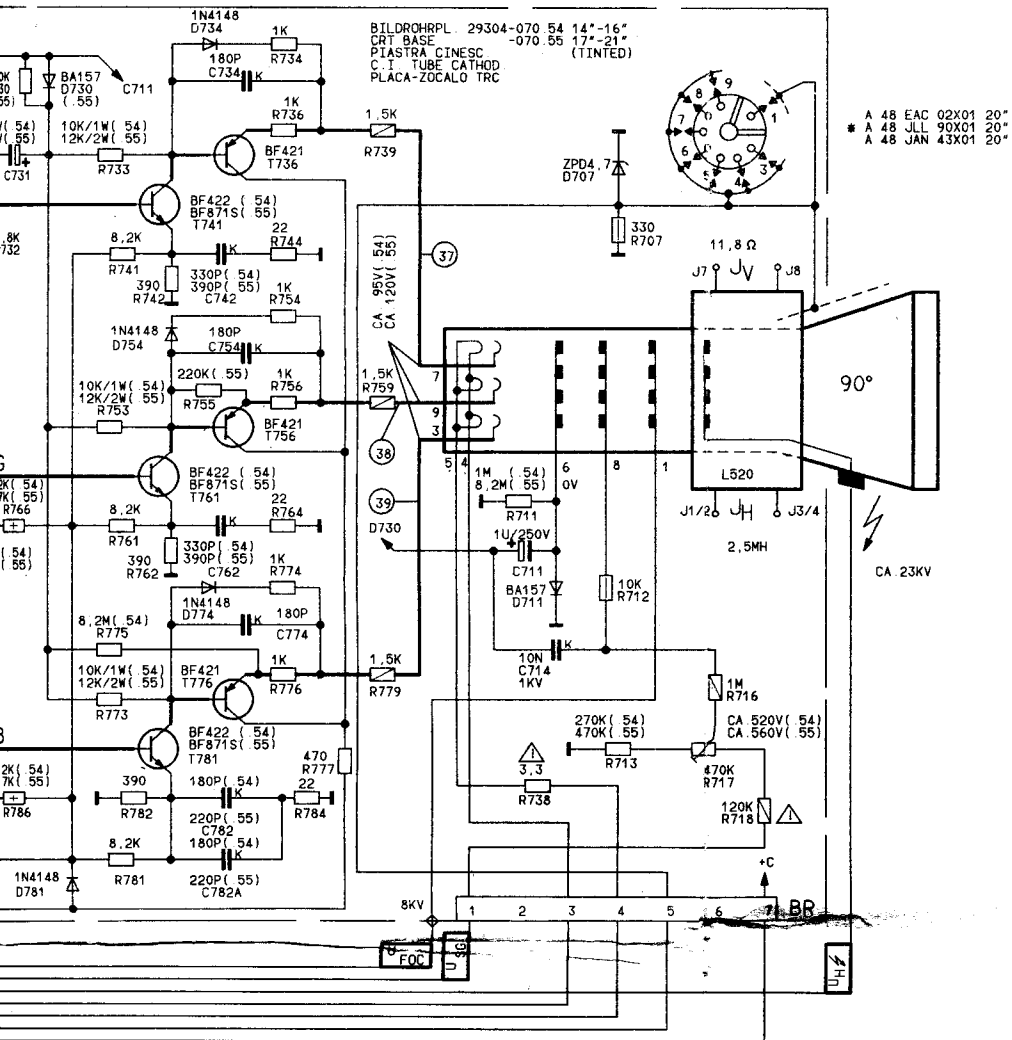
White level adjustment

Display colour bar test pattern.  
Set ⊖ to min., ⊙ to nom., ⊕ to max  
Adjust presets VG and VB (CTR) so that the picture  
does not show any colouration.

**(I)**

Taratura del bianco

Applicare un monoscopio FuBK.  
Regolare ⊖ al minimo, ⊙ sul valore nominale e ⊕  
al massimo.  
Con i regolatori VG e VB (piastra cinescopio) elimina-  
re eventuali macchie di colore.



**D**  
**Weiabgleich**  
 FuBK - Testbild einpfeisen.  
 ① min., ② nom., ③ max. einstellen.  
 Regler VG und VB (Bildrohrplatte) so einstellen, da  
 keine Verfärbungen in den Grauwerten sichtbar sind.

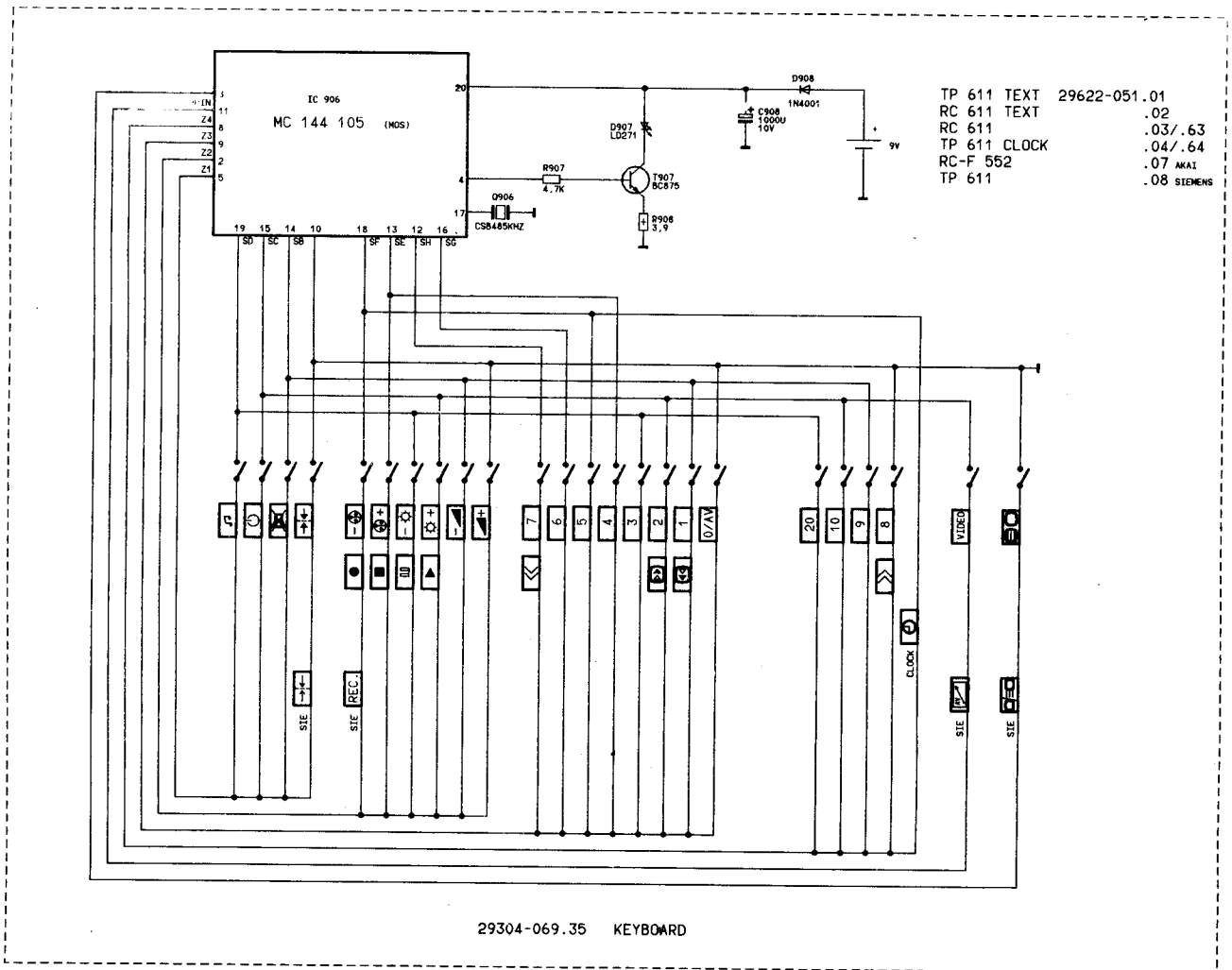
**GB**  
**White level adjustment**  
 Display colour bar test pattern.  
 Set ① to min., ② to nom., ③ to max.  
 Adjust presets VG und VB (CTR) so that the picture  
 does not show any colouration.

**I**  
**Taratura del bianco**  
 Applicare un monocropio FuBK.  
 Regolare ① al minimo, ② sol valore nominale e ③  
 al massimo.  
 Con i regolatori VG e VB (piastra cinescopio) elimina-  
 re eventuali macchie di colore.

*Novo*

8 EAC 02X01 20"  
 8 JUL 90X01 20"  
 8 JAN 43X01 20"

23KV



**GRUNDIG**



ⓓ Btx \* 32700 #

SCHALTBILD  
 CIRCUIT DIAGRAM  
 SCHEMA

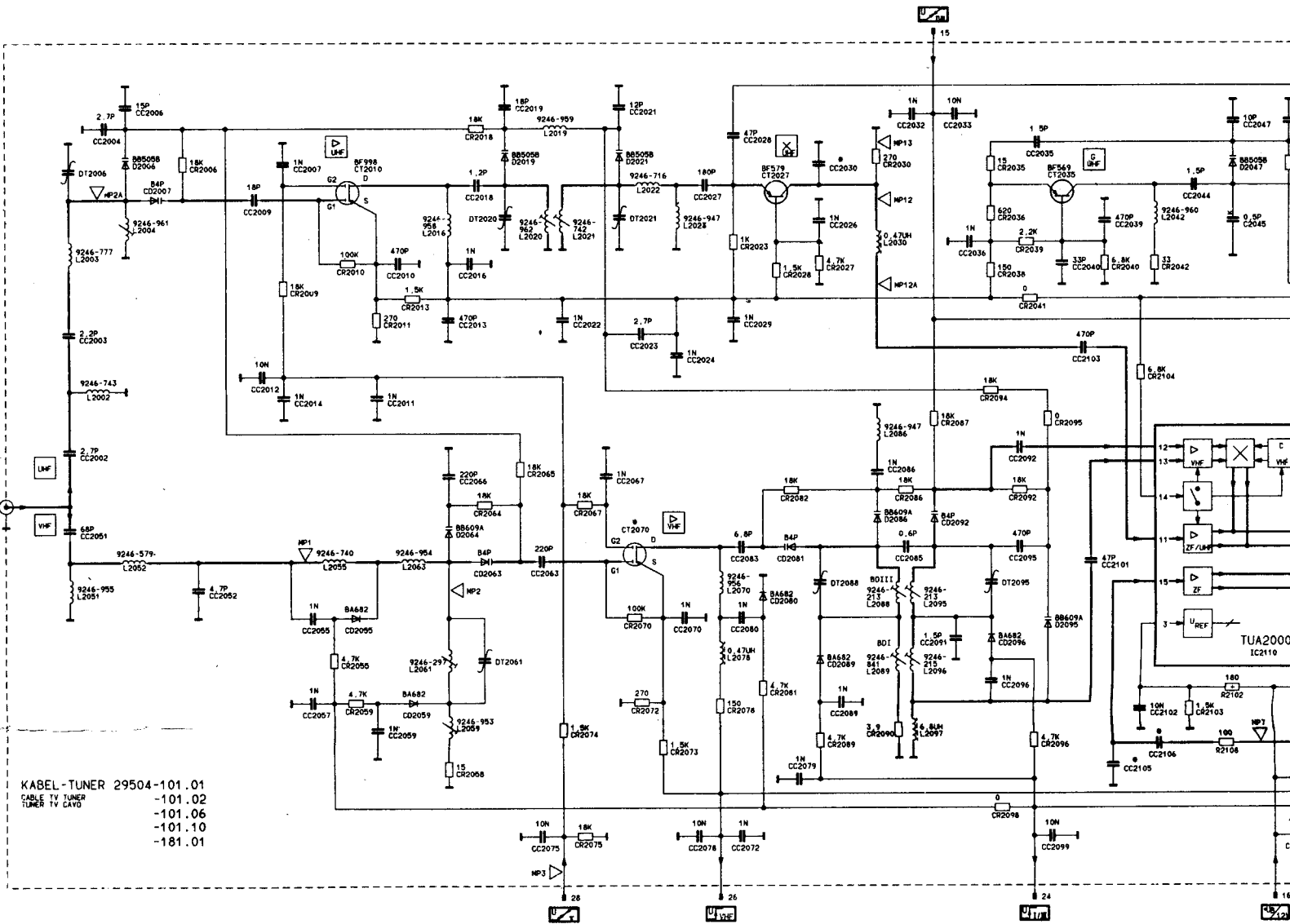
**CUC 3400**

T 51-400

(7.58553-01)

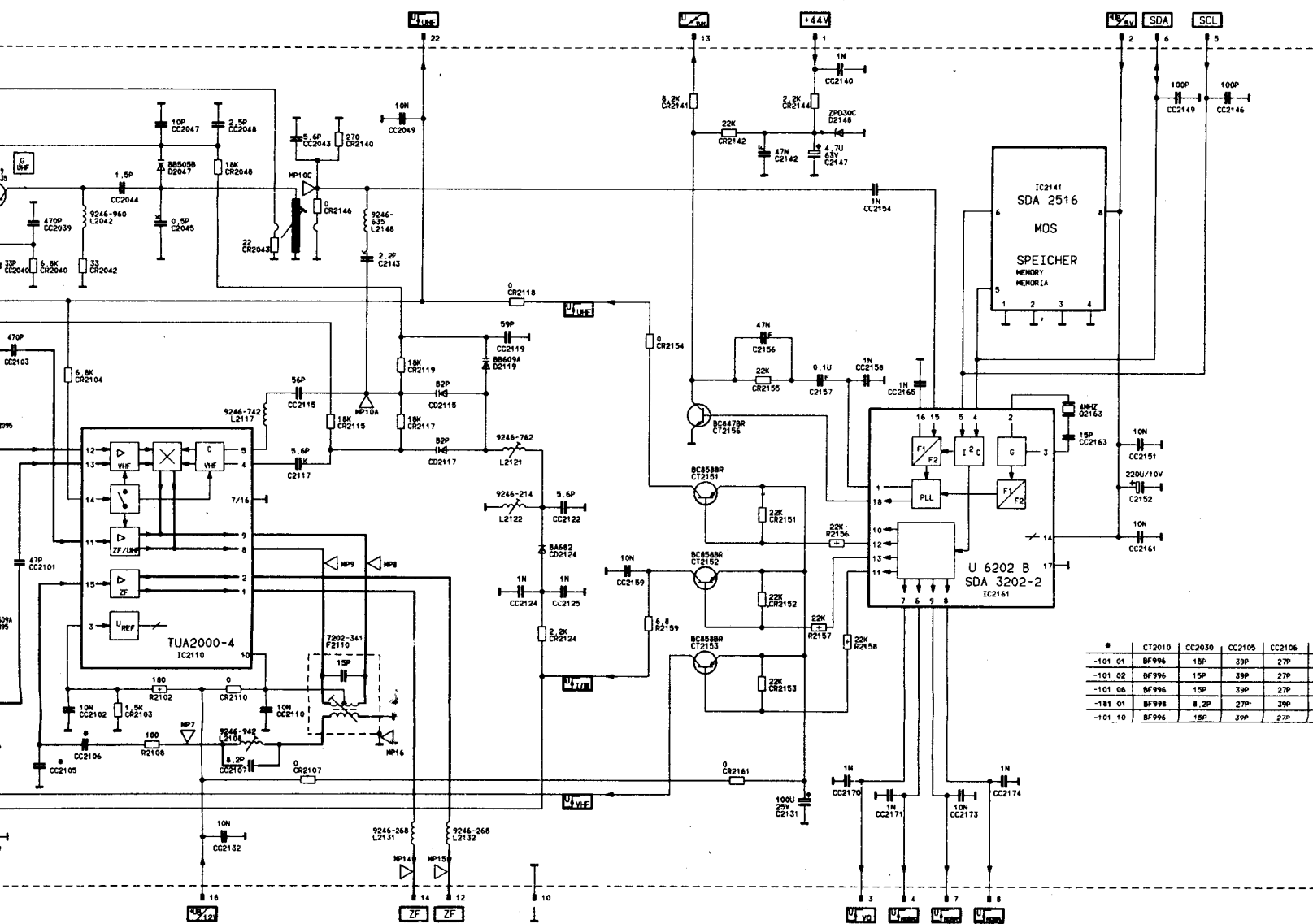
Änderungen vorbehalten  
 Subject to alteration  
 Sous réserve de modifications ultérieures  
 Con riserva di modifichie  
 Reservado el derecho de modificación

72010-905.00



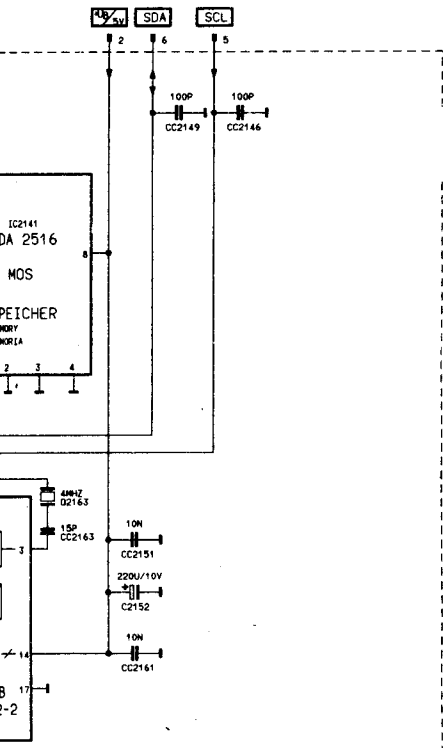
KABEL-TUNER 29504-101.01  
 CABLE TV TUNER -101.02  
 TUNER TV CAVO -101.06  
 -101.10  
 -181.01

Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig  
 When replacing the plug-in board, no alignment is necessary  
 Non è necessaria nessuna taratura di adattamento dopo la  
 sostituzione di una scheda ad innesto

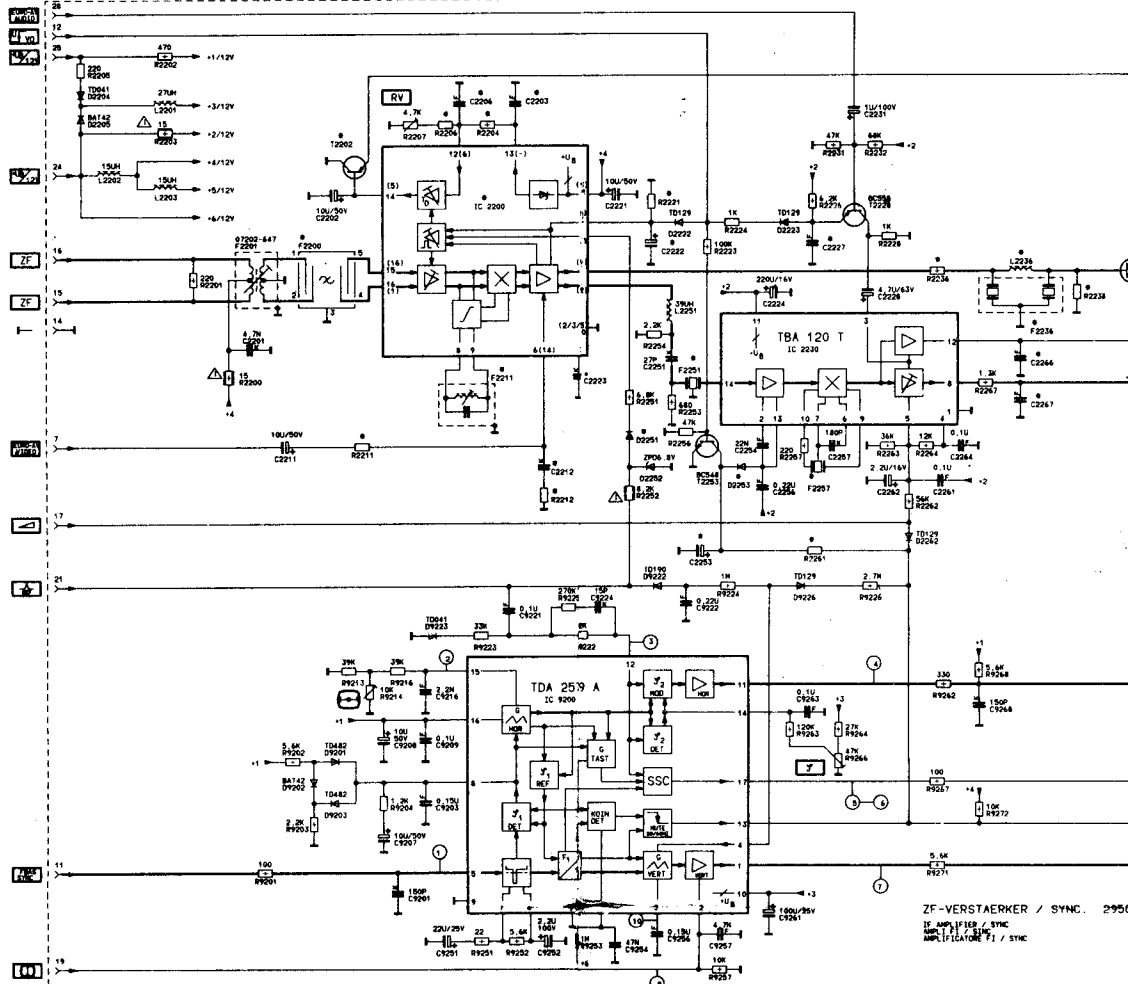


	CT2010	CC2030	CC2105	CC2106
-101 01	BF996	15P	39P	27P
-101 02	BF996	15P	39P	27P
-101 06	BF996	15P	39P	27P
-181 01	BF998	8.2P	27P	39P
-101 10	BF996	15P	39P	27P



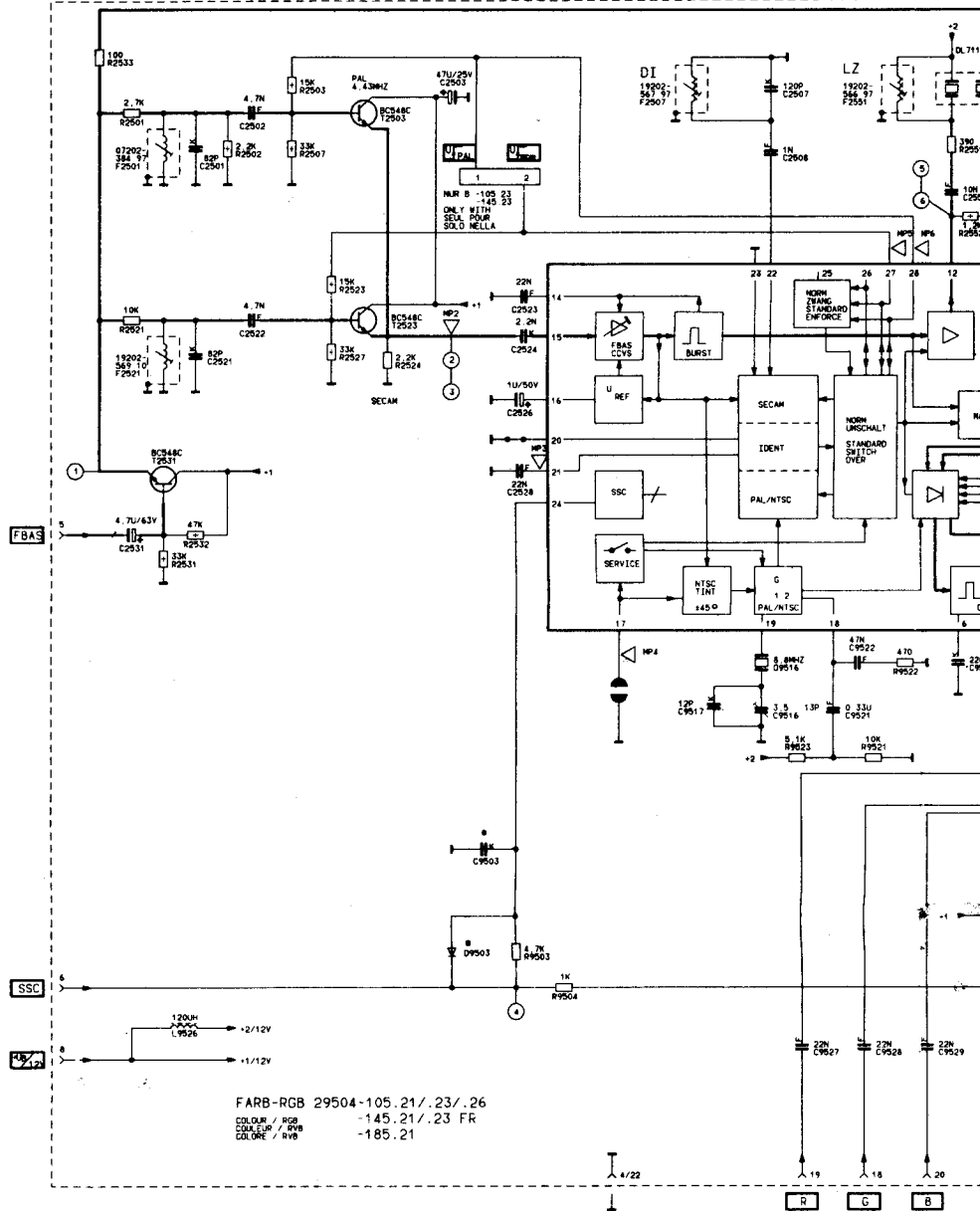
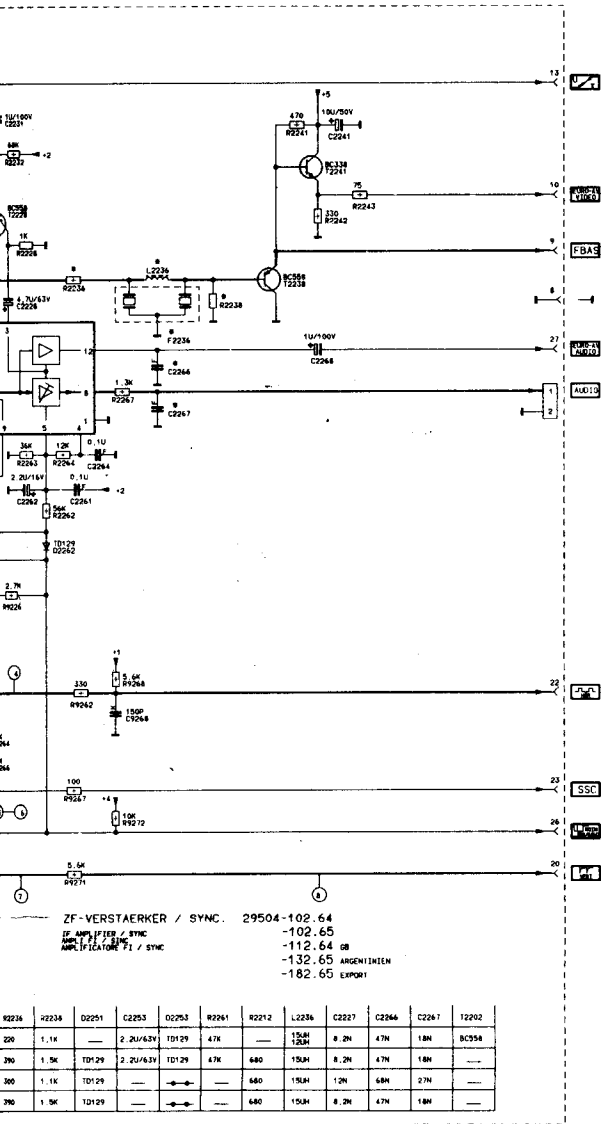


	CC2010	CC2030	CC2105	CC2106	IC2161
-101 01	BF996	15P	39P	27P	SDA 3202-2
-101 02	BF996	15P	39P	27P	SDA 3202-2
-101 06	BF996	15P	39P	27P	SDA 3202-2
-181 01	BF998	8.2P	27P	39P	SDA 3202-2
-101 10	BF996	15P	39P	27P	U.6202 B



#	CC2000	F2200	F2211	F2236	F2251	F2257	C2203	R2204	Q206	R2206	R2211	C2212	R2221	C2222	C2223	R2236	Q2238	D2251	C2253	D2253	R2261	R2271	
-102 44	TD4510-2	DFV G1958	07202-304	TP55 5MD	SFE5.5	CD45.5	0.1u	5.6k	47n	1.8k	330	---	---	1u/100V	1N	220	1.1k	---	2.2u/63V	TD129	47k	---	
-102 45	TD4442	DFV G1958	19202-185	TP55 5MD	SFE5.5	CD45.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
-132 45	TD4442	DFV H1952	07202-670	TP54 5MC	SFE4.5	CD44.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
-182 45	TD4442	DFV CC R	19202-185	TP55 5MD	SFE5.5	CD45.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig  
 When replacing the plug-in board, no alignment is necessary  
 Non è necessaria nessuna taratura di adattamento dopo la sostituzione di una scheda ad innesto



**D**  
**Abgleich Farb/RGB**

- Weiabgleich**
  - FuBK-Testbild einspeisen.
  - ⊖ min., ⊙ nom., ⊕ max. einstellen.
  - Regler VG und VB (Bildrohrplatte) so einstellen, da keine Verfärbungen in den Grauwerten sichtbar sind.
- Sperrpunktgleichung**

Eine manuelle Einstellung ist nicht möglich, da die Steckkarte eine automatische Dunkelstromregelung besitzt. Kontrolle des Sperrpunkts (Oszilloskop erforderlich):

  - FuBK-Testbild einspeisen.
  - ⊖ min., ⊙ nom., ⊕ min. einstellen.
  - Testkopf an den Kollektoren der Transistoren T 736, T 756, T 776 anhängen (Bildrohrplatte). Die Schwarzwerte der drei Kathodensignale liegen bei ca. 140 - 150 V.
- Einstellungen im Farbkanal**
  - PAL-Testbild einspeisen.
  - ⊖ nom., ⊙ nom., ⊕ max. einstellen.
  - IC-Pin 28 vom TDA 4557 mit +12V verbinden.
  - IC-Pin 17 vom TDA 4557 mit Masse verbinden.
  - Mit Trimmer C 9516 die durchlaufenden Farbbalken zum Stehen bringen.
  - Kurzschlubrücken entfernen.
  - Testkopf an MP 12, mit Regler BP und Spule LZ die Doppelbilder des B-Signals zur Deckung bringen.
  - SECAM-Testbild einspeisen.
  - Testkopf an Pin 1 vom TDA 4557 anschließen, mit Spule DR Nulllinie des (R-Y) Signals auf Zeilenniveau bringen.
  - Testkopf an Pin 3 vom TDA 4557 anschließen, mit Spule DB Nulllinie des (B-Y) Signals auf Zeilenniveau bringen.
  - Spule F 2521 so einstellen, da das (B-Y)-Signal keine Überschwinger hat.

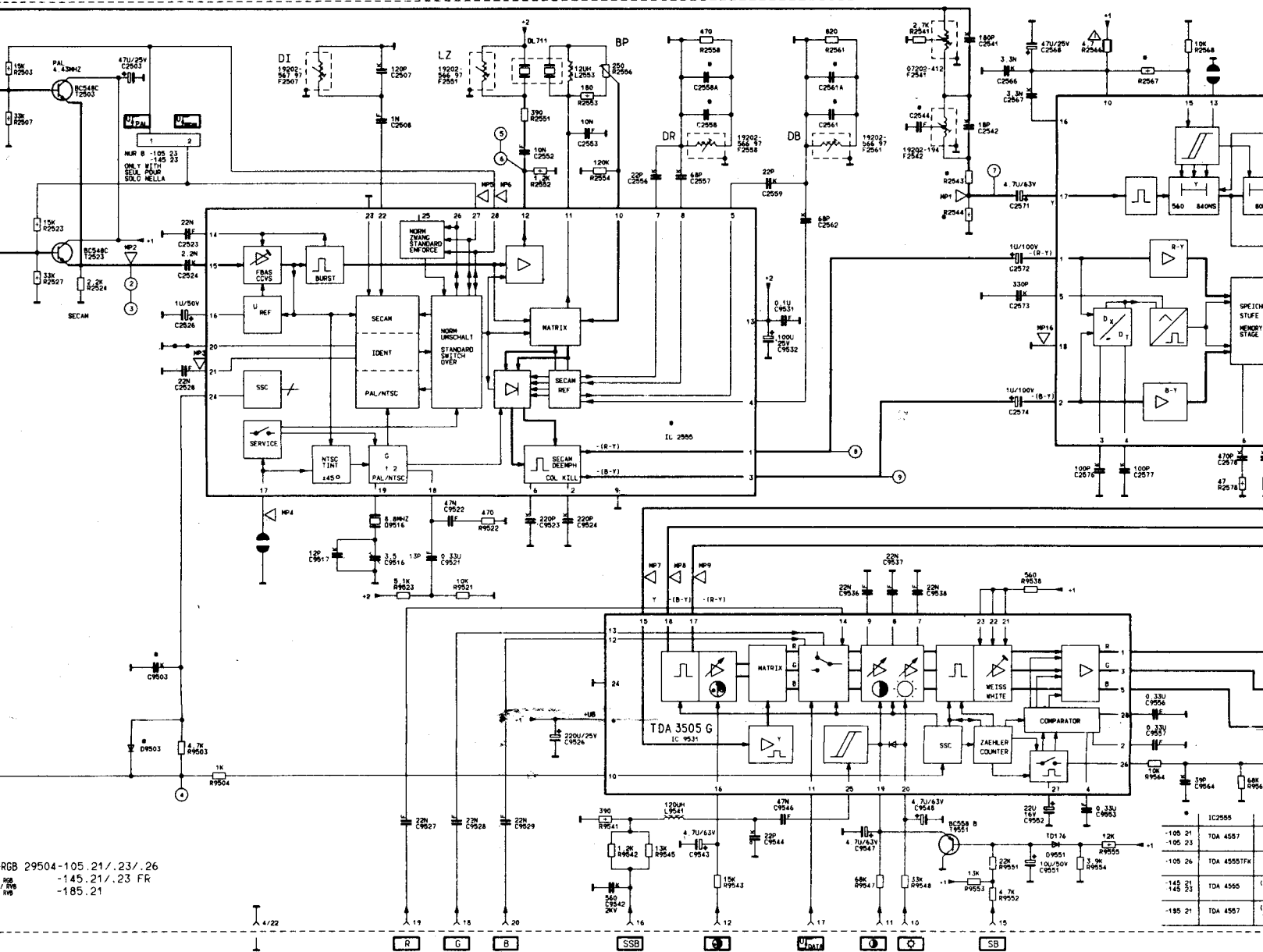
**GB**  
**Color RGB alignment**

- White level adjustment**
  - Display colour bar test pattern.
  - Set ⊖ to min., ⊙ to nom., ⊕ to max.
  - Adjust presets VG and VB (CTR socket) to colouration.
- Adjustment of cut-off point**

Manual adjustment is not possible, as the current control circuit.

To check cut-off point (oscilloscope required):

  - Display colour bar test pattern.
  - Set ⊖ to min., ⊙ to nom., ⊕ to min.
  - Connect test probe to collectors of T 736, T 756, T 776. The black levels of the three cathode signals should be ca. 140 - 150 V.
- Adjustments in chroma channel**
  - Display PAL test pattern.
  - Set ⊖ to nom., ⊙ to nom., ⊕ to max.
  - Connect pin 28 of IC TDA 4557 to +12V.
  - Connect pin 17 of IC TDA 4557 to chassis.
  - Adjust trimmer C 9516 for stationary picture.
  - Remove wire links.
  - Connect test probe to test point MP 12. Adjust BP and LZ to coincide by adjusting the picture.
  - Display SECAM test pattern.
  - Connect test probe to pin 1 of IC TDA 4557.
  - Use coil DR to align zero level of the (R-Y) signal.
  - Connect test probe to pin 3 of IC TDA 4557.
  - Use coil DB to align zero level of the (B-Y) signal.
  - Adjust coil F 2521 so that the (B-Y) signal has no overshoot.



RGB 29504-105.21/.23/.26  
 -145.21/.23 FR  
 -185.21

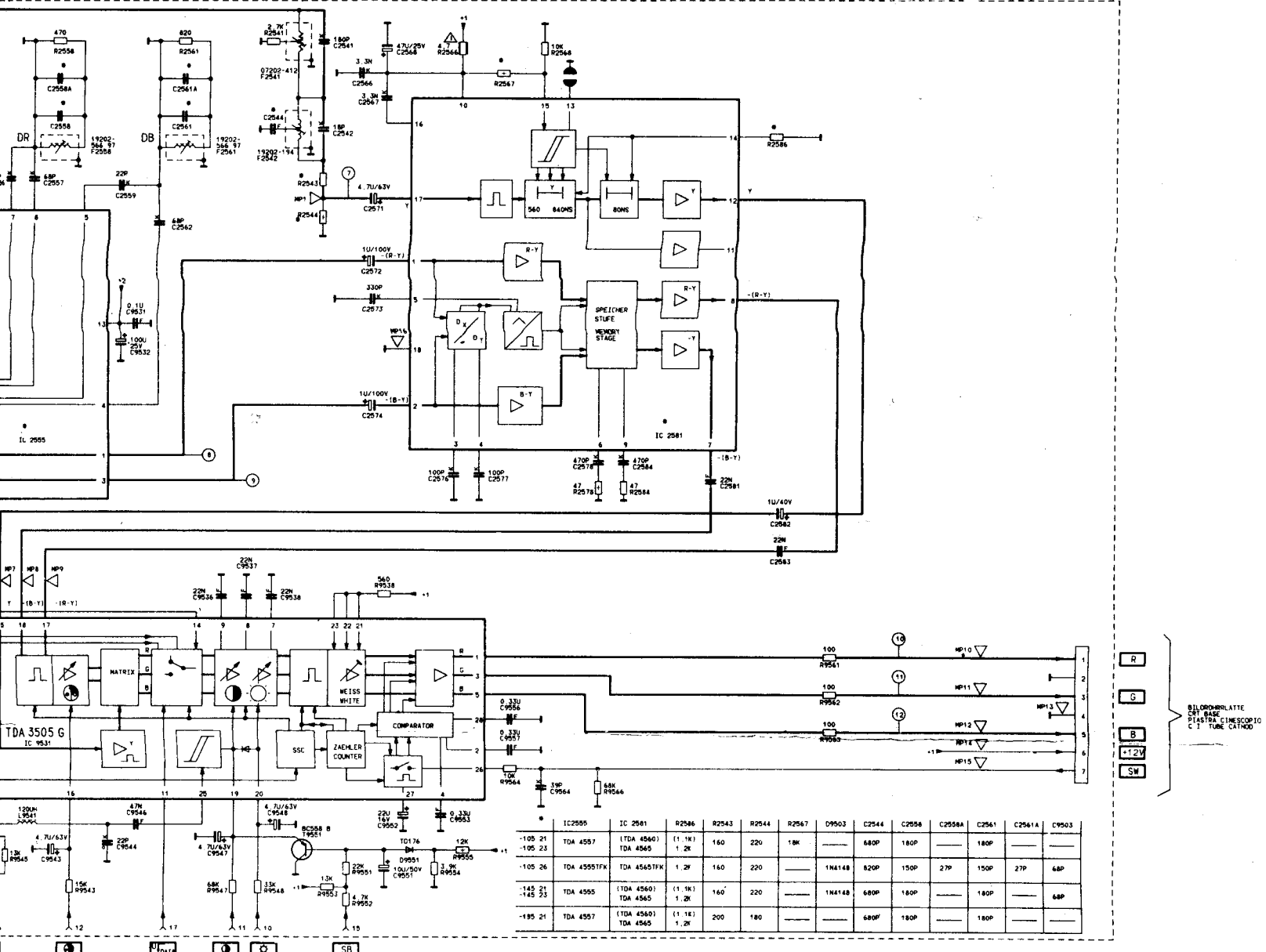
IC2555	IC2557
-105 21	TDA 4557
-105 23	TDA 4557
-109 26	TDA 4557F4
-145 21	TDA 4555
-145 23	TDA 4557
-185 21	TDA 4557

**GB**  
**Color RGB alignment**

- White level adjustment**
  - Display colour bar test pattern.
  - Set ① to min., ② to nom., ③ to max.
  - Adjust presets VG and VB (CTR socket board) so that the picture does not show any colouration.
- Adjustment of cut-off point**  
 Manual adjustment is not possible, as the circuit board employs an automatic dark current control circuit.  
 To check cut-off point (oscilloscope required), proceed as follows:  
 - Display colour bar test pattern.  
 - Set ① to min., ② to nom., ③ to min  
 - Connect test probe to collectors of T 736, T 756, T 776 (CRT socket board). The black levels of the three cathode signals should be 140 - 150V.
- Adjustments in chroma channel**
  - Display PAL test pattern.
  - Set ① to nom., ② to nom., ③ to max.
  - Connect pin 28 of IC TDA 4557 to +12V supply.
  - Connect pin 17 of IC TDA 4557 to chassis.
  - Adjust trimmer C 9516 for stationary pattern in colour bars.
  - Remove wire links.
  - Connect test probe to test point MP 12. Bring the double image produced by the B-signal to coincidence by adjusting the preset BP and the coil LZ.
  - Display SECAM test pattern.
  - Connect test probe to pin 1 of IC TDA 4557.
  - Use coil DR to align zero level of the (R-Y) signal with the line black level.
  - Connect test probe to pin 3 of IC TDA 4557.
  - Use coil DB to align zero level of the (B-Y) signal with the line black level.
  - Adjust coil F 2521 so that the (B-Y) signal is free of overshooting.

**I**  
**Taratura del Colore/RVB**

- Taratura del bianco**
  - Applicare un monoscopio FuBK.
  - Regolare ① al minimo, ② sul valore nominale e ③ al massimo.
  - Con i regolatori VG e VB (piastra cinese) eliminare eventuali macchie di colore.
- Taratura del punto di blocco**  
 Una regolazione manuale non è possibile, poiché questa scheda incorpora una regolazione automatica della corrente d'interdizione.  
 Controllo del punto di blocco (è necessario un oscilloscopio):  
 - Applicare un monoscopio FuBK.  
 - Regolare ① al minimo, ② sul valore nominale e ③ al minimo.  
 - Collegare la sonda al collettori dei transistori T 736, T 756, T 776 (piastra cinese). Valore nero dei tre segnali catodici ca. 140 - 150V.
- Regolazione del canale colore**
  - Applicare un monoscopio PAL.
  - Regolare ① al nominale, ② sul valore nominale e ③ al massimo.
  - Sull'integrato TDA 4557 collegare pin 28 a +12V.
  - Sull'integrato TDA 4557 collegare pin 17 a massa.
  - Con C 9516 fermare la barre colorate scorsevoli.
  - Togliere i cortocircuiti.
  - Collegare la sonda a MP 12. Con il regolatore BP e la bobina LZ portare a coperto le immagini doppie del segnale B.
  - Applicare un monoscopio SECAM.
  - Collegare la sonda al pin 1 dell'integrato TDA 4557, con la bobina DR portare la zero del segnale (R-Y) sul livello della frequenza di riga.
  - Collegare la sonda al pin 3 dell'integrato TDA 4557, con la bobina DB portare la linea del segnale (B-Y) sul livello della frequenza di riga.
  - La bobina F 2521 applicarla così in modo che il segnale (B-Y) sia chiaro.



**I**

**Taratura del Colore/RVB**

**1. Taratura del bianco**

- Applicare un monoscopio FuBK.
- Regolare **⊖** al minimo, **⊙** sul valore nominale e **⊕** al massimo.
- Con i regolatori VG e VB (piastra cinescopio) eliminare eventuali macchie di colore.

**2. Taratura del punto di blocco**

- Una regolazione manuale non è possibile, poiché questa scheda incorpora una regolazione automatica della corrente d'interdizione.
- Controllo del punto di blocco (è necessario un oscilloscopio):
- Applicare un monoscopio FuBK.
  - Regolare **⊖** al minimo, **⊙** sul valore nominale e **⊕** al massimo.
  - Collegare la sonda al collettori dei transistori T 736, T 756, T 776 (piastra cinescopio). Valore nero del tre segnali catodici ca. 140 - 150V.

**3. Regolazione del canale colore**

- Applicare un monoscopio PAL.
- Regolare **⊖** al nominale, **⊙** sul valore nominale e **⊕** al massimo.
- Sull'integrato TDA 4557 collegare pin 28 a +12V.
- Sull'integrato TDA 4557 collegare pin 17 a massa.
- Con C 9518 fermare le barre colorate scorrevoli.
- Togliere i cortocircuiti.
- Collegare la sonda a MP 12, con il regolatore BP e la bobina LZ portare a copertura le immagini doppie del segnale B.
- Applicare un monoscopio SECAM.
- Collegare la sonda al pin 1 dell'integrato TDA 4557, con la bobina DR portare la linea zero del segnale (R-Y) sul livello della frequenza di riga.
- Collegare la sonda al pin 3 dell'integrato TDA 4557, con la bobina DB portare la linea zero del segnale (B-Y) sul livello della frequenza di riga.
- La bobina F 2521 applicarla così in modo che il segnale (B-Y) sia chiaro.