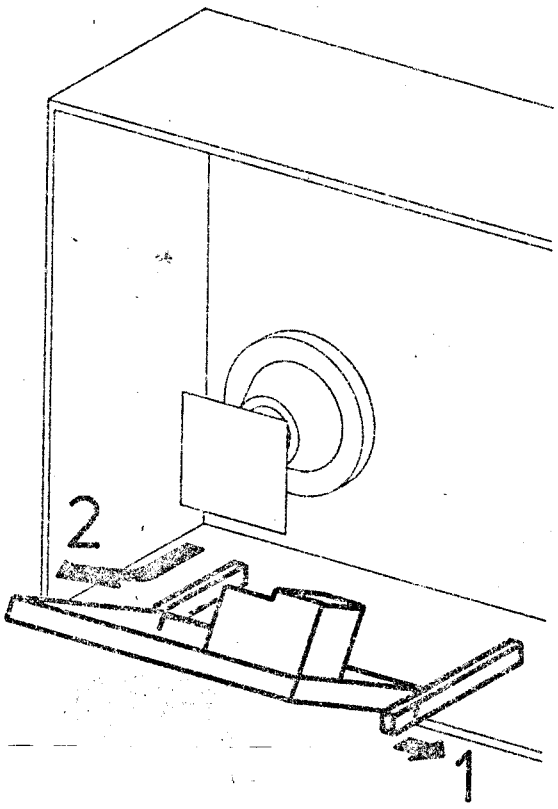
Hinweis für den Fachhandel!
Bei Ausfall von Steckkarten empfehlen wir grundsätzlich unseren Austauschdienst.

Information for dealers!
If a plug-in board becomes defective, we recommend you replace it.

Avvertenza per i rivenditori specializzati!
In caso di schede ad innesto difettose consigliamo in primo luogo di rivolgersi al nostro Servizio permuta.

Servicestellung
Service position
Posizione di servizio

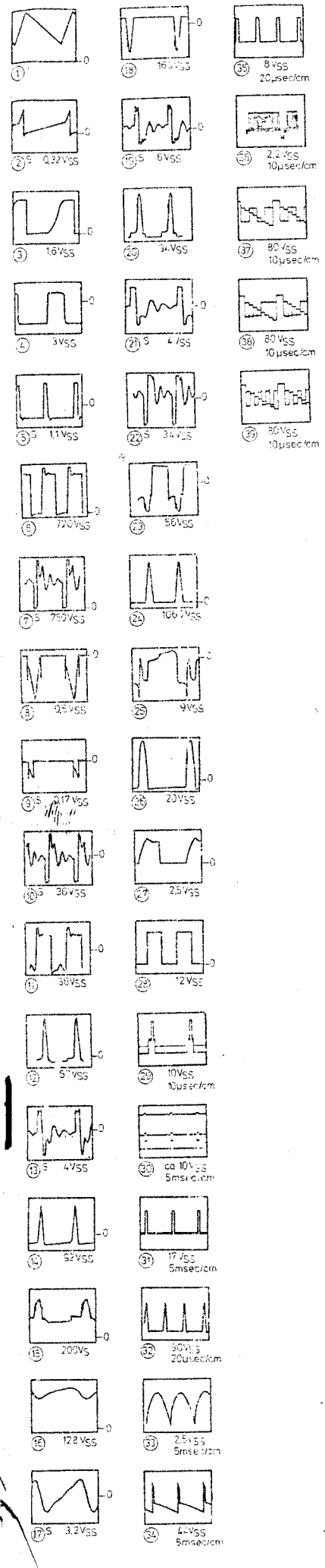


GRUNDIG color

Ⓓ Btx * 32700 #

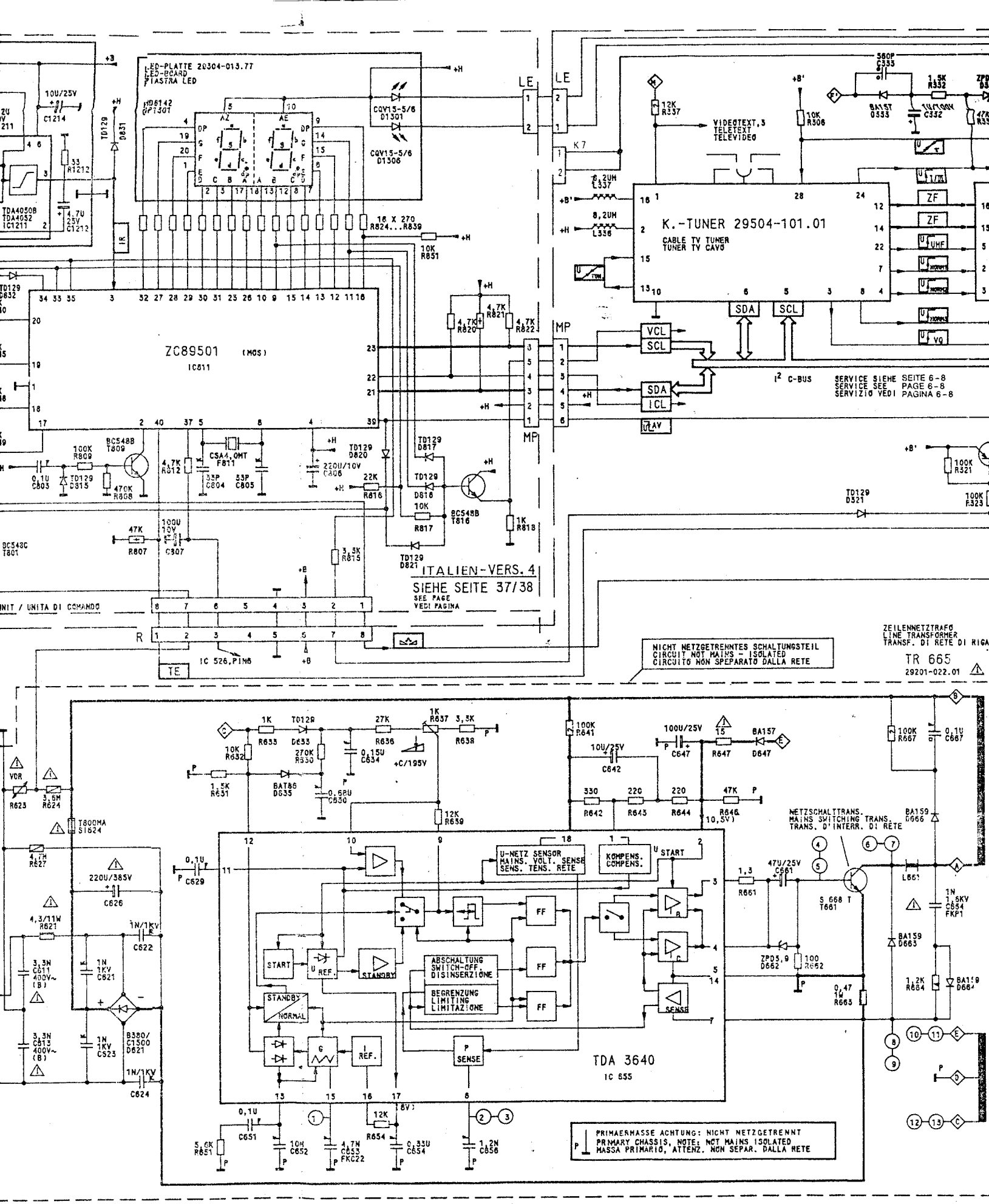
SERVICE MANUAL
CUC 2500 (ZC 89501)

ST 55-2556 CTI (9.25210-01)
ST 55-2556 CTI (9.25210-06)



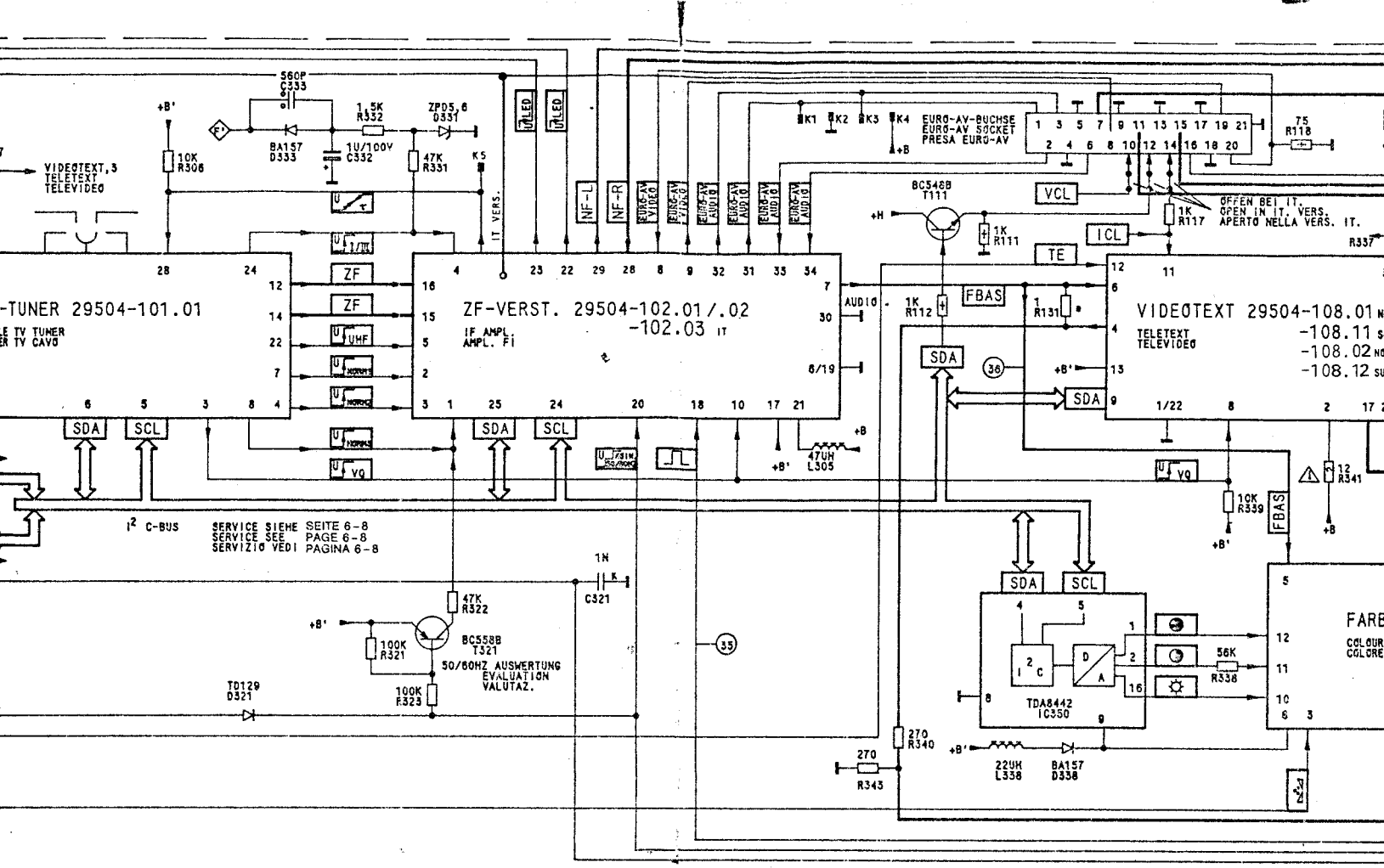
Die mit S gekennzeichneten Oszillogramme sind im Standby-Betrieb aufgenommen.

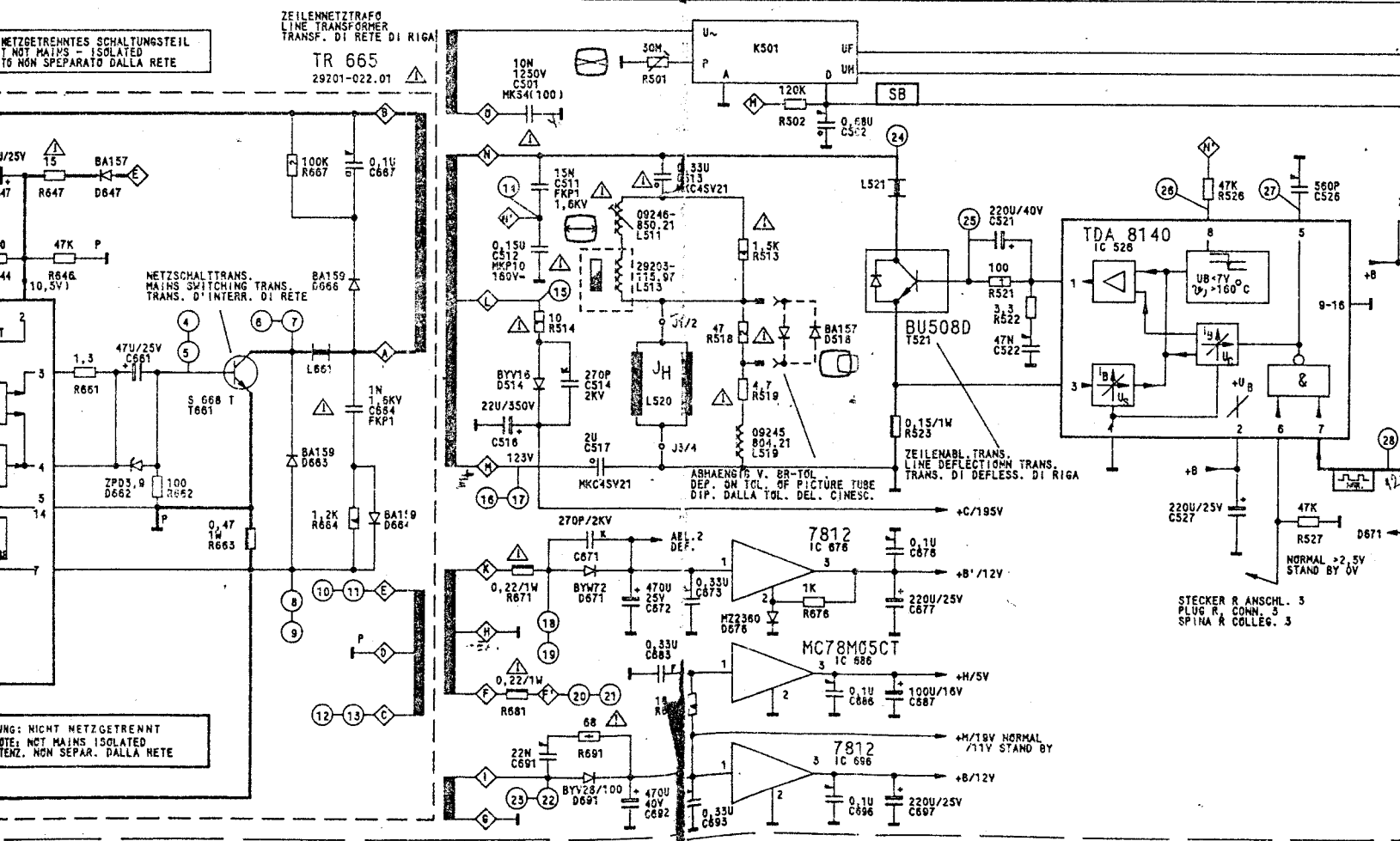
The oszillogramms marked by S are shown in standby position.

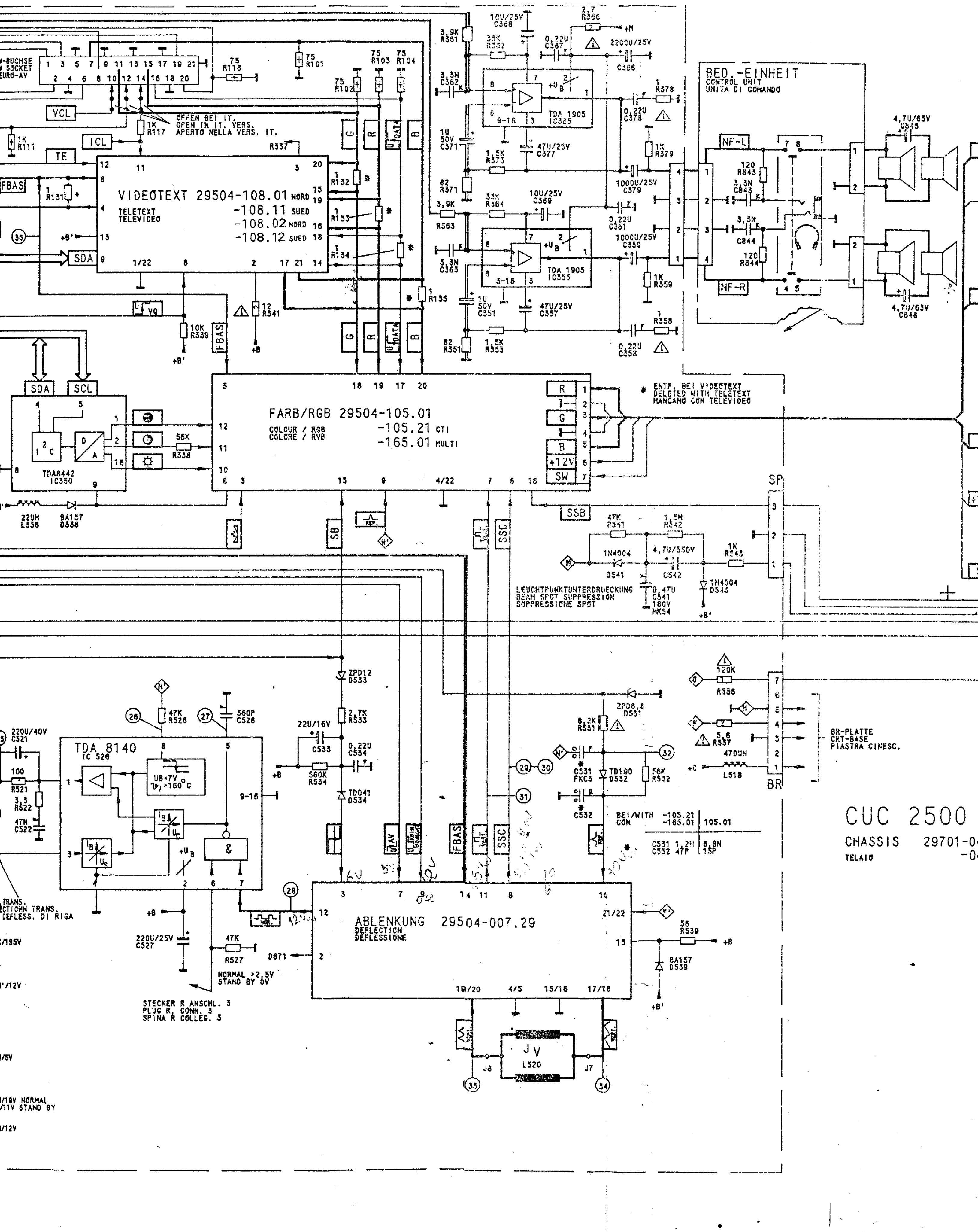


The oszillogramms marked by S are shown in standby position.

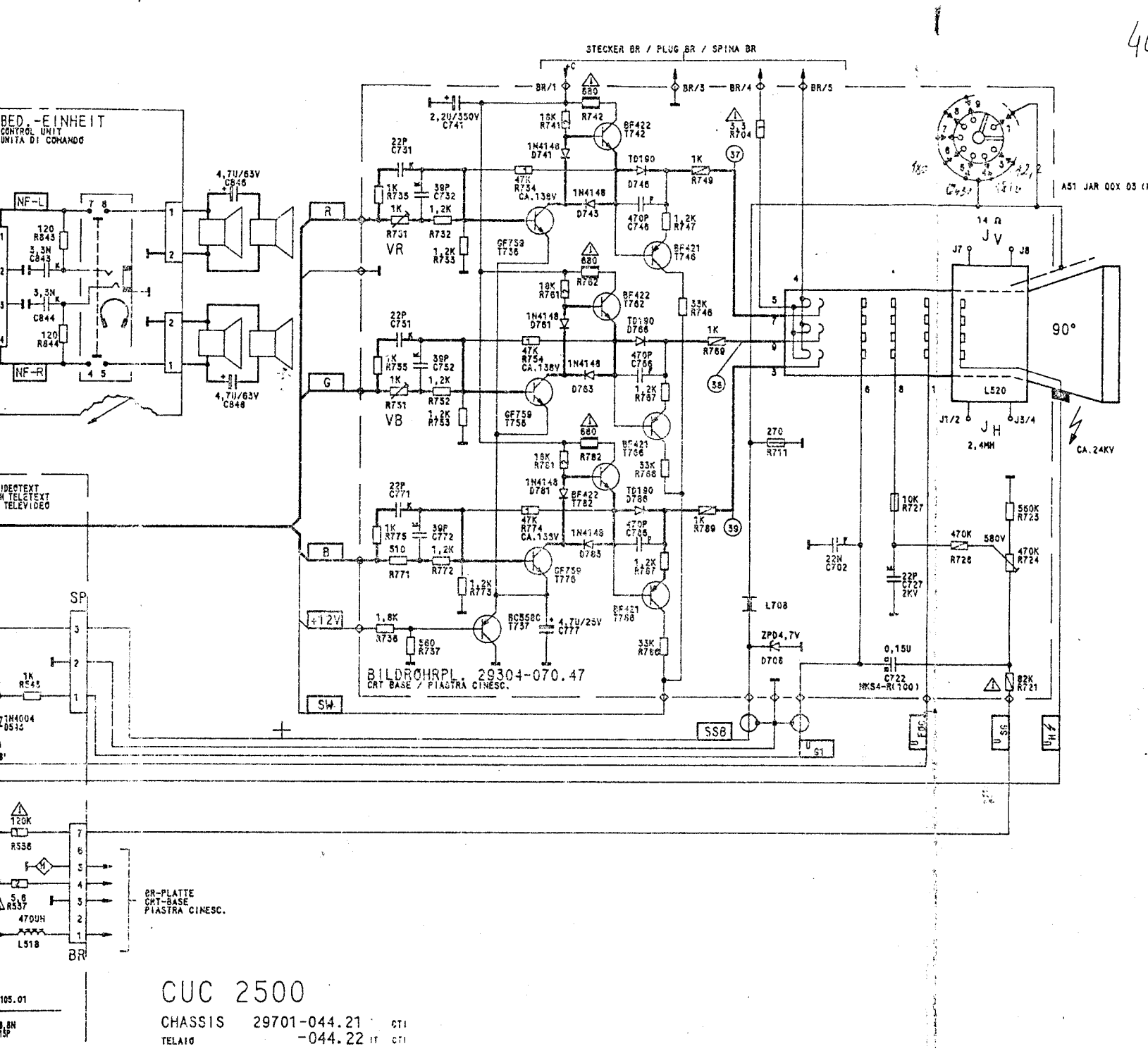
Gli oscillogrammi contrassegnati con la »S« sono stati rilevati nella situazione di attesa.


VIDEOTEXT,3
TELETEXT
TELEVIDEO
560P C333
1,5K R332
ZPD5,6 D331
BA157 D333
1U/100V C332
47K R331
10K R306
K5
IT VERS.
NF-L
NF-R
EURO-AV VIDEO
EURO-AV AUDIO
K1 K2 K3 K4
EURO-AV-BUCHSE
EURO-AV SOCKET
PRESA EURO-AV
75 R118
BC548B T111
VCL
ICL
TE
1K R111
1K R117
OFFEN BEI IT.
OPEN IN IT. VERS.
APERTO NELLA VERS. IT.
R337
-TUNER 29504-101.01
E TV TUNER
R TV CAVO
ZF-VERST. 29504-102.01/.02
-102.03 IT
IF AMPL.
AMPL. FI
AUDIO
1K R112
FBAS
1 R131
VIDEOTEXT 29504-108.01
-108.11
-108.02
-108.12
TELETEXT
TELEVIDEO
SDA
SCL
I² C-BUS
SERVICE SIEHE SEITE 6-8
SERVICE SEE PAGE 6-8
SERVIZIO VEDI PAGINA 6-8
47UH L305
10K R339
12 R341
1N C321
47K R322
100K R321
100K R325
BC558B T321
50/60HZ AUSWERTUNG
EVALUATION
VALUTAZ.
TD129 D321
TDA8442 IC350
56K R338
270 R340
270 R343
22UH L358
BA157 D338
FARE
COLOUR
COLORE


NETZGETRENNTES SCHALTUNGSTEIL
NOT MAINS - ISOLATED
TO NON SPEPARATO DALLA RETE
ZEILENNETZTRAFO
LINE TRANSFORMER
TRANSF. DI RETE DI RIGA
TR 665
29201-022.01
K501
R501
R502
C502
SB
BA157 D647
R647
47K P R646
NETZSCHALTTRANS.
MAINS SWITCHING TRANS.
TRANS. D'INTERR. DI RETE
S 668 T T661
BA159 D666
100K R667
0,1U C667
47U/25V C661
R661
L661
1N 1,5KV C664 FKP1
BA159 D663
ZPD5,9 D662
100 R662
1,2K R664
BA159 D664
0,47 1W R663
15N C511 FKP1 1,6KV
0,33U C513 MKC4SV21
09246-850.21 L511
0,15U C512 MKP10 160V~
29203-115.97 L513
1,5K R513
10 R514
47 R518
BA157 D518
BYV16 D514
270P C514 2KV
22U/350V C516
4,7 R519
09245 804.21 L519
2U C517
123V
MKC4SV21
ABHAENGIG V. BR-TOL. DEP. ON TOL. OF PICTURE TUBE DIP. DALLA TOL. DEL. CINESC.
L520
L521
220U/40V C521
100 R521
3,3 R522
47N C522
BU508D T521
0,15/1W R523
ZEILENABL.TRANS.
LINE DEFLECTION TRANS.
TRANS. DI DEFLESS. DI RIGA
TDA 8140 IC 526
47K R526
560P C526
220U/25V C527
47K R527
D671
NORMAL >2,5V
STAND BY 0V
STECKER R ANSCHL. 3
PLUG R, CONN. 3
SPINA R COLLEG. 3
270P/2KV
C671
0,22/1W R671
BYW72 D671
470U 25V C672
0,33U C673
MZ2360 D676
7812 IC 676
0,1U C676
220U/25V C677
+C/195V
+B'/12V
MC78M05CT IC 686
0,1U C686
100U/16V C687
+H/5V
0,22/1W R681
68 R691
22N C691
BYV28/100 D691
470U 40V C692
0,33U C693
7812 IC 696
0,1U C696
220U/25V C697
+H/18V NORMAL
/11V STAND BY
+B/12V
UNG: NICHT NETZGETRENNT
TE: NOT MAINS ISOLATED
TENZ. NON SEPAR. DALLA RETE



EURO-AV
VCL
OFFEN BEI IT. VERS.
OPEN IN IT. VERS.
APERTO NELLA VERS. IT.
ICL
TE
FBAS
SDA
SCL
VIDEOTEXT 29504-108.01 NORD
TELETEXT
TELEVIDEO
-108.11 SUED
-108.02 NORD
-108.12 SUED
TDA 1905
IC365
TDA 1905
IC355
BED.-EINHEIT
CONTROL UNIT
UNITA DI COMANDO
NF-L
NF-R
TDA8442
IC350
FARB/RGB 29504-105.01
COLOUR / RGB
COLORE / RVB
-105.21 CTI
-165.01 MULTI
ENTF. BEI VIDEOTEXT
DELETED WITH TELETEXT
MANCANO CON TELEVIDEO
SSB
SB
SSC
LEUCHTPUNKTUNTERDRUECKUNG
BEAM SPOT SUPPRESSION
SOPPRESSIONE SPOT
BR-PLATTE
CRT-BASE
PIASTRA CINESC.
TDA 8140
IC 526
BEI/WITH -105.21 -165.01 CON
105.01
C531 1,2N 6,8N
C532 47P 15P
ABLENKUNG 29504-007.29
DEFLECTION
DEFLESSIONE
NORMAL >2,5V
STAND BY 0V
STECKER R ANSCHL. 3
PLUG R. CONN. 3
SPINA R COLLEG. 3
L520
CUC 2500
CHASSIS 29701-0
TELAIO



CUC 2500

CHASSIS 29701-044.21 CTI

TELAIO -044.22 IT CTI

Service am I²C-Bus

Bei Fehlfunktionen des Gerätes, die nicht auf Netzteil, Hochspannung und Ablenkung zurückzuführen sind, ist der I²C-Bus gemäß Tabelle 1 zu prüfen, bevor weitere Servicearbeiten nach Tabelle 2 durchgeführt werden.

Der µComputer in der Bedieneinheit IC 811 liefert Steuerbefehle für Tuner, ZF, Videotext, Scartbuchse (Euro-AV-Buchse) inklusive VCR-Fernsteuerung und RGB-Analogwerte über den I²C Bus.

Hinweis:

Bei Modulwechsel ist das Gerät generell auszuschalten!

Auch in Stellung »Bereitschaft« darf kein Modul gezogen werden! MOS-handling beachten

Tabelle 1

Messung	Meßwert	Meßpunkt	Mögliche Fehler
+H	5 V	Pin 40, IC 811 (SIE) Pin 4, (MOT)	D 671, IC 676, IC 811
4 MHz Takt Reset	4 MHz, 3 V_{ss} 5 V_{ss} nur im Einschaltmoment	Pin 22, IC 811 (SIE) Pin 5, (MOT) Pin 23, IC 811 (SIE) Pin 2, (MOT)	F 811, IC 811 C 806, IC 811
I²C Bus	5 V_{ss}	Pin 8, 9, IC 811 (SIE) Pin 21, 23, (MOT)	Die I²C-Bus-Daten sind auch ohne TP-Bedienung oder Keyboardeingabe vorhanden. Bei fehlenden Daten: Die Leitungen SDA und SLC (Brücken auf dem Bedienteil) auftrennen. Sind dann die I²C-Bus-Daten vorhanden, liegt eine Überlastung des I²C-Bus vor. **Fehlerursache:** Tuner, ZF, Videotext, IC 350, EURO-AV-Buchse.

Tabelle 2

Mögliche Fehlerarten des Gesamtgerätes in Abhängigkeit der I²C-Bus-Steuerung.

Fehler	Mögliche Ursache	Meßwert	Meßpunkt
Keine Bedienfunktion per Keyboard	+H IC 811	5 V siehe Tabelle 1	IC 811 pin 40 (SIE) Pin 4 (MOT)
Keine Kanal-Programmumschaltung mit TP LED schaltet nicht	IR-Vorverstärker D 1201, T 1204, +B, IC 1211, D 831, +H, IC 811, T 801,	+B = 12 V 5 V_{ss} (IR-Signal) 5 V_{ss} (Einschaltvorgang)	Pin 6 IC 1211 Pin 3 IC 1211 Pin 8, 9 IC 811 (SIE) Pin 21, 23 (MOT)
	Wischerschalter der Netztaste, F 811	Übergangswiderstand 0 Ω 3 V_{ss}	am Schalter Pin 22 IC 811 (SIE) Pin 5 (MOT)
Keine Frequenzabstimmung	+A über R 337 +B, +H Daten (SDA)/Clock (SCL) I²C Bus variable Abstimmspannung in Abhängigkeit der Kanaleingabe	ca. 46 V 12 V, 5 V 5 V_{ss} 0,2 – 30 V	Tuner Stift 1 Tuner Stift 16, 2 Tuner Stift 6, 5 Tuner Stift 13, 15
Kein FBAS-Signal an ZF-Bst. Kont. 7, 9	+B, +B' I²C Bus, SDA, SCL fehlt am Tuner	12 V 5 V_{ss}	ZF 21, 17 Tuner 6, 5
Kein NF-Signal an ZF-Bst. Kont. 28/29	+B, +B' I²C Bus, SDA, SCL keine Koinzidenz	12 V 5 V_{ss} 12 V 5 V	ZF 21, 17 ZF 25, 24 ZF 20 IC 811 Pin 19 (SIE) Pin 35 (MOT)
Keine Analogwerte Keine Helligkeit Kein Kontrast Kein Farbkontrast	I²C Bus, IC 350 D/A-Converter D/A-Converter D/A-Converter	5 V_{ss} 1 – 3 V 2 – 4 V 2 – 4 V	IC 350 Pin 4/5 Farb/RGB-Baustein: Stift 10 (Helligk.) Stift 11 (Kontrast) Stift 12 (Farbkon.)
Nur bei TP-Bedienung Kein Videotext	+B', +E I²C Bus, SDA T 816 ICL	12 V, 8 V 5 V_{ss} 5 V_{ss}	VT 13, 2 VT 9 VT 11
Nur bei TP-Bedienung in Verbindung mit Video 1 Taste			
Keine VCR-Fernsteuerung	T 821, VCL T 816, ICL I²C Bus SDA/T 111	5 V 5 V_{ss} 5 V_{ss}	Euro-AV-Buchse 10 Euro-AV-Buchse 14 Euro-AV-Buchse 12

Service checks on th

If faults occur in the se
the I²C bus should be

Via the I²C bus the mic
(Teletext), Scart socke

Note:

N.B. when a module is
plugged even in the "

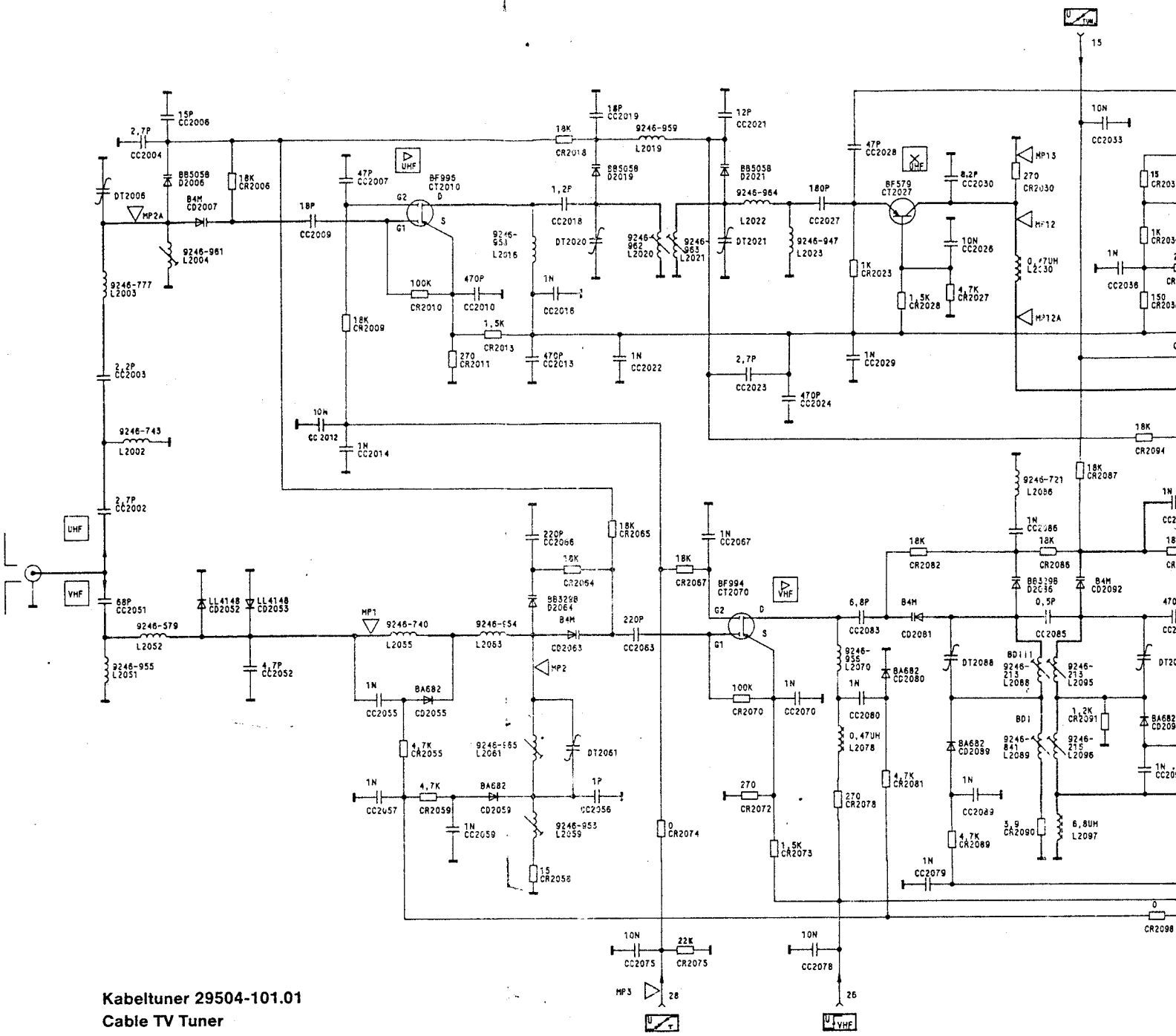
Table 1

Test
+H
4 MHz clock Reset
I²C Bus

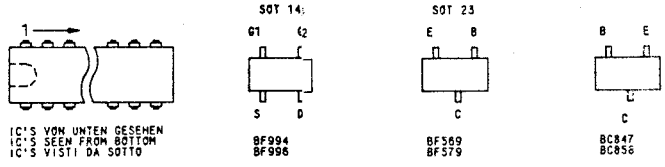
Table 2

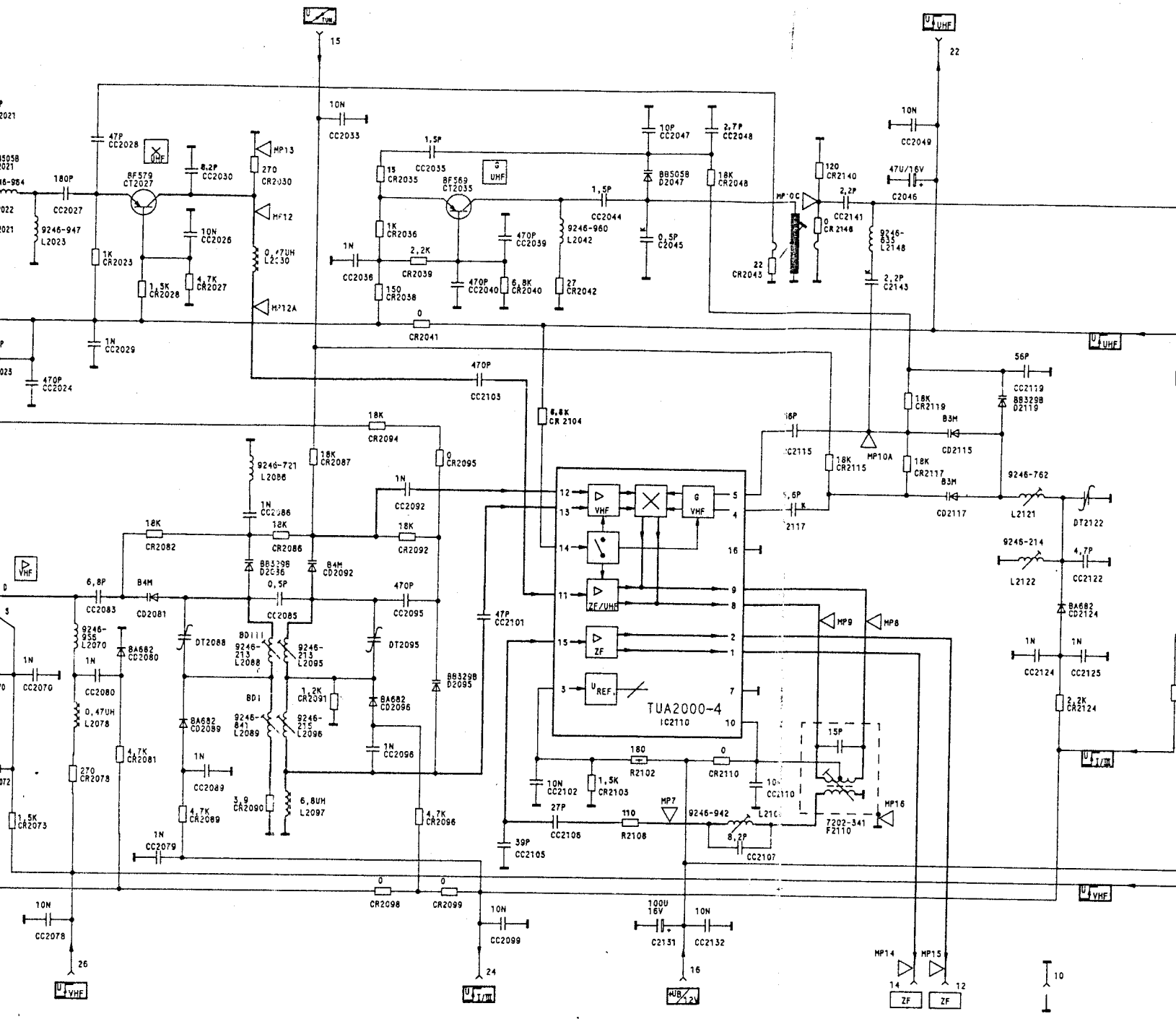
Possible faults due to

Fault
No functions accep by keyboard
Channel No. cannot changed with remo control LED does not switc
No frequency tunin
No CCVS at IF mod contacts 7, 9
No AF signal at IF module contacts 2
No analog singals Brightness Contrast Colour contrast
Remote control op No Videotext (Telet
Remote control op No VCR remote co

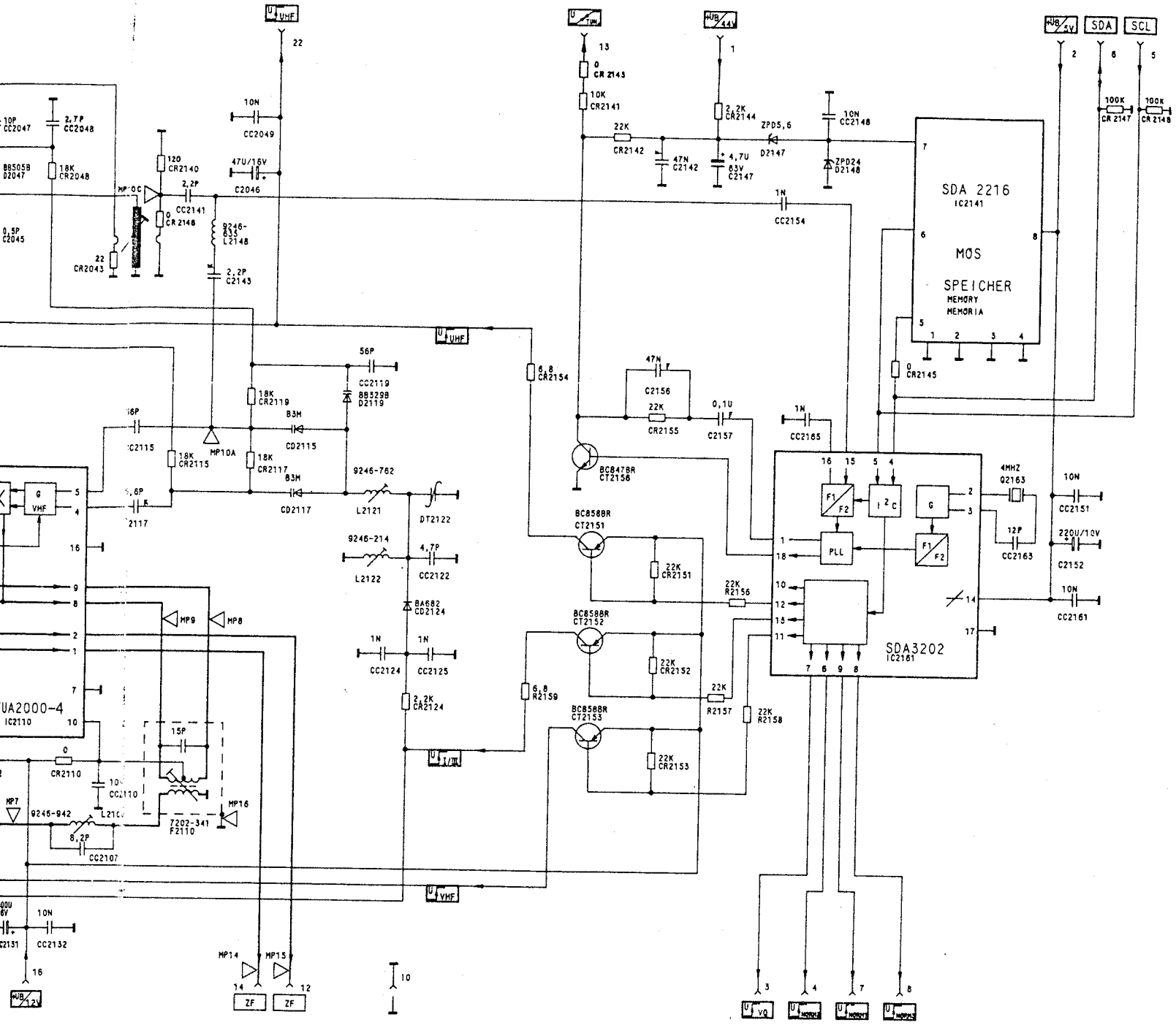


Kabeltuner 29504-101.01
Cable TV Tuner
Tuner TV cavo

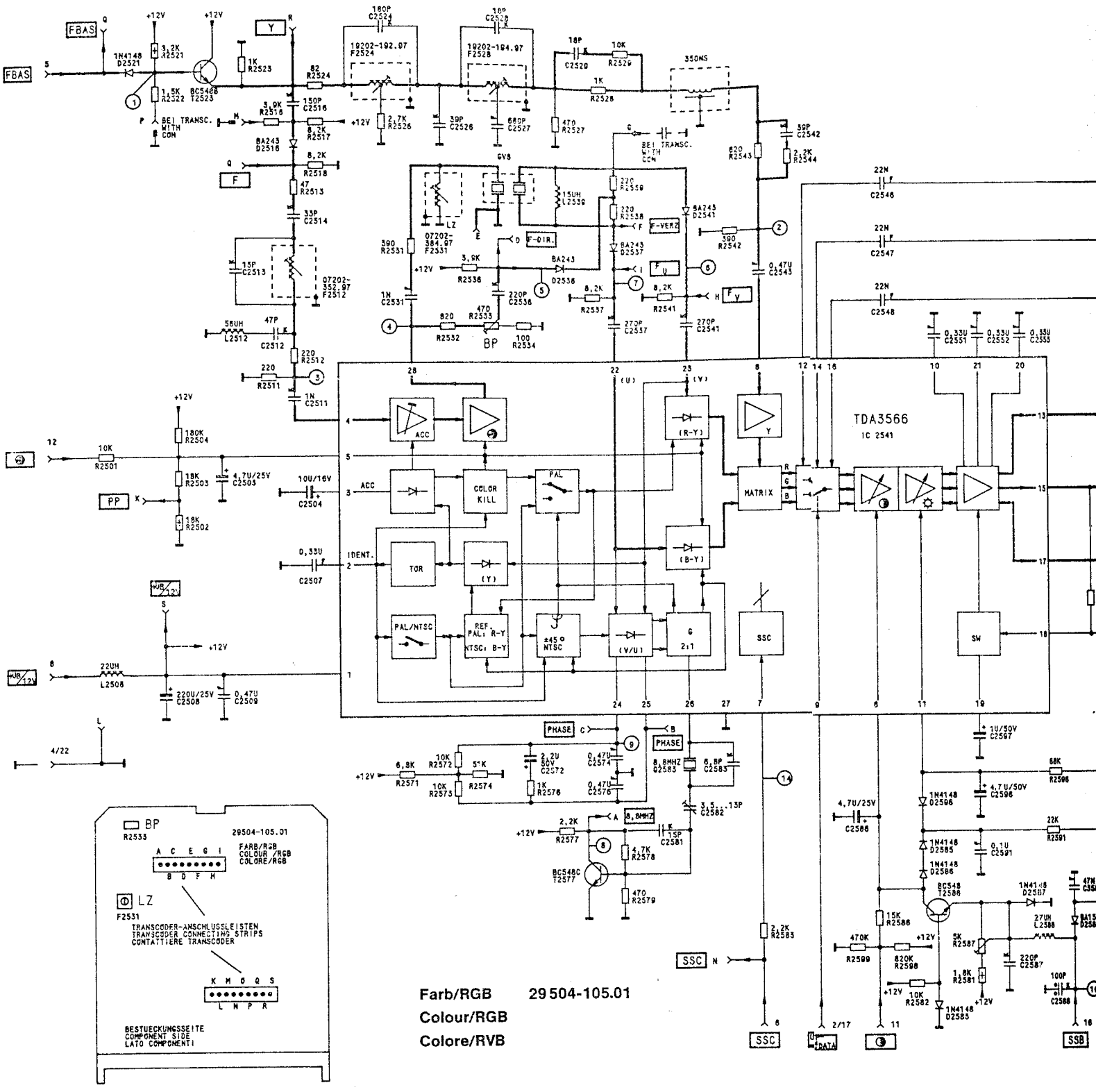




Kein
When
Non é
sostit



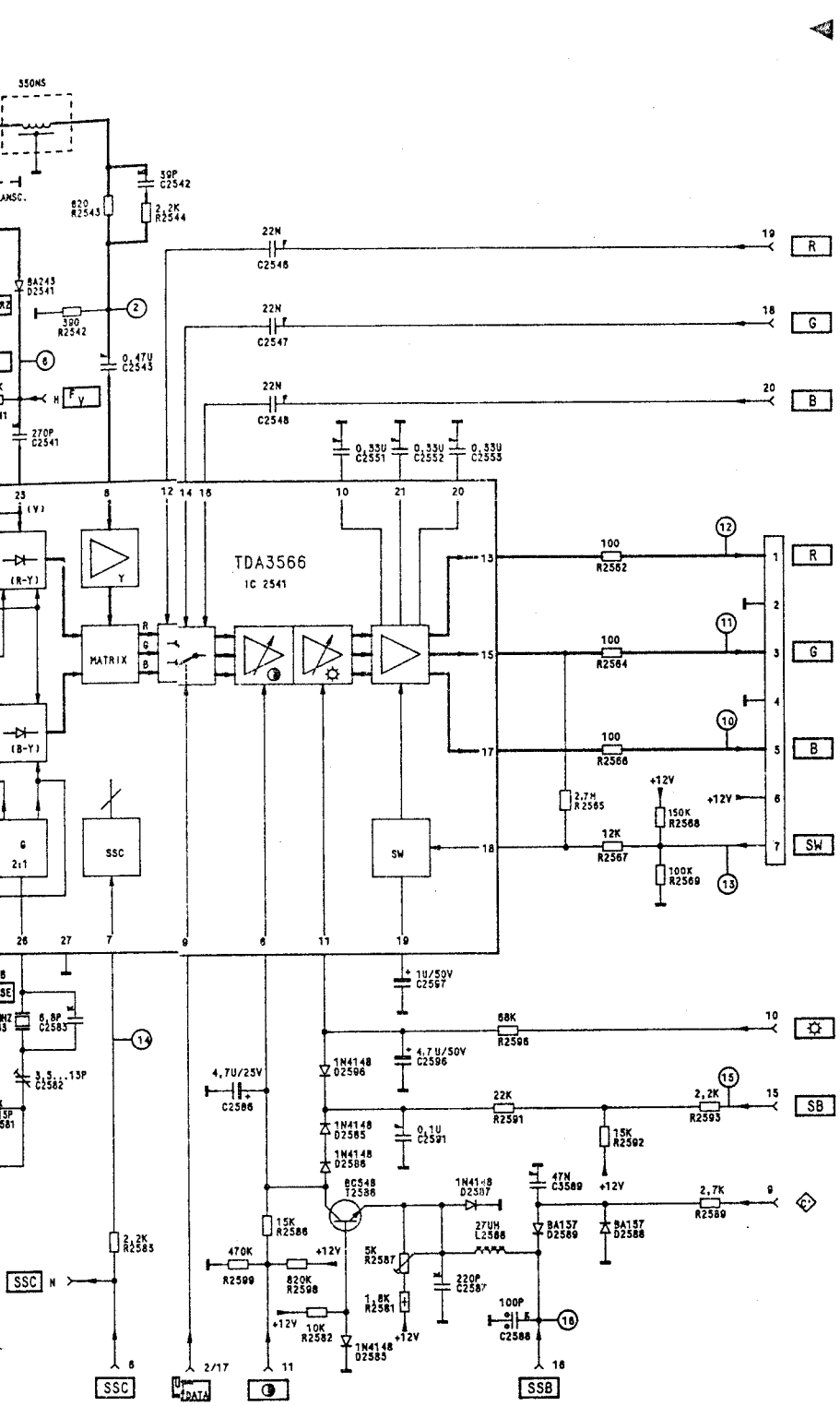
Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
When replacing the plug-in board, no alignment is necessary
Non è necessaria nessuna taratura di adattamento dopo la sostituzione di una scheda ad innesto



1. Weißabgleich
   - FuBK-Testbild einspeisen.
   - ◑min., ○ nom., ◑max., einstellen.
   - Regler VG und VB (Bildrohrplatte) so einstellen, daß keine Verfärbungen in den Grauwerten sichtbar sind.
2. Sperrpunktabgleich
   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.
   - Tastkopf an den Kollektoren der Transistoren T736, T756, T776 anhängen (Bildrohrplatte). Die Schwarzwerte der drei Kathodensignale liegen bei ca. 140 ... 150 V
3. Einstellungen im Farbkanal
   - FuBK-Testbild einspeisen.
   - ◑nom., ○ nom., ◑ nom. einstellen.
   - Am IC TDA 3566 Pin 1 mit Pin 5 und Pin 24 mit Pin 25 kurzschließen.
   - Mit Trimmer 2582 die durchlaufenden Farbbalken zum Stehen bringen, Kurzschlußbrücken entfernen.
   - Tastkopf am Pin 17 des IC TDA 3566 einhängen.
     Mit Regler BP und Spule LZ die Doppelbilder des B-Signals zur Deckung bringen.

1. White level adjustment.
   - Display colour bar test pattern.
   - Set ◑ to min., ○ to nom., ◑ to max.
   - Adjust presets VG and VB (CRT socket board) so that the picture does not show any colouration.
2. 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 ◑ to min., ○ to nom., ◑ to min
   - Connect test probe to collectors of T736, T756, T776 (CRT socket board).
     The black levels of the three cathode signals should be 140-150 V
3. Colour oscillator and PAL adjustments.
   - Inject colour bar test pattern.
   - Adjust to ◑, ○, ◑ suit view conditions.
   - On the IC TDA 3566, short circuit pin 1 with pin 5 and pin 24 with 25.
   - With trimmer 2582 adjust the until colours are correct. Remove short circuits.
   - Attach probe to pin 17 of the IC TDA 3566.
   - With control BP and coil LZ, adjust the double images of the B signal to coincide.

1. Taratura del bianco
   - Applicare un monoscopio FuBK
   - Regolare ◑ al minimo, ○ sul valore nom
   - Con VG e VB (piastra cinescopio) elimina
2. Taratura del punto di blocco.
   Una regolazione manuale non è possibile, p
   regolazione automatica della corrente d'int
   Controllo del punto di blocco (è necessario
   - Applicare un monoscopio FuBK.
   - Regolare ◑ al minimo, ○ sul valore non
   - Collegare la sonda ai collettori dei transist
     Valore nero dei tre segnali catodici ca. 1
3. Regolazioni dell'oscillatore colore e PAL
   - Applicare un monoscopio FuBK.
   - Regolare ◑, ○ ed ◑ sul valore nominal
   - Cortocircuitare i terminali 1 e 5 ed i term
   - Fermare le barre colorate scorrevoli con
   - Collegare la sonda dell'oscilloscopio al
     Con il regolatore BP e la bobina LZ porta
     gnale B.



① Z 2,1 V_{SS}

② Z 320 mV_{SS}

③ Z 200 mV_{SS}

④ Z 1,7 V_{SS}

⑤ Z 160 mV_{SS}

⑥ Z 270 mV_{SS}

⑦ Z 180 mV_{SS}

⑧ HF 0,8 V_{SS}

⑨ Z 0,05 V_{SS} (9,8V)

⑩ Z 3,5 V_{SS}

⑪ Z 3,5 V_{SS}

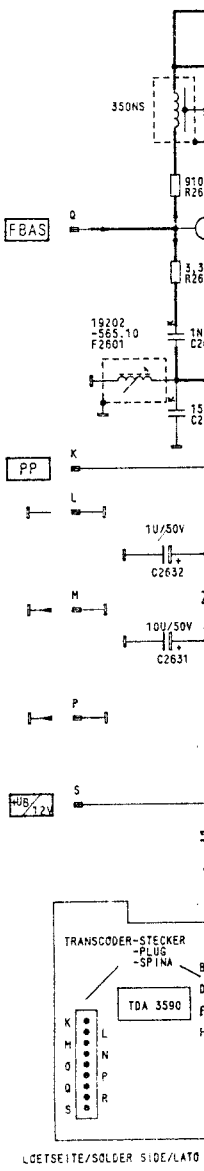
⑫ Z 3,5 V_{SS}

⑬ 8V 5V 0V 20 ms

⑭ Z 11 V_S

⑮ 2,7V DC 0,5V 20ms DC 0V B ca. 2,5 V_{SS}

⑯ Z 0V 0,6V



① Z 2,1 V_{SS} (2V)

② Z

1. Taratura del bianco
   - Applicare un monoscopio FuBK
   - Regolare ◑ al minimo, ○ sul valore nominale e ◑ al massimo.
   - Con VG e VB (piastra cinescopio) eliminare eventuali macchie di colore.
2. Taratura del punto di blocco.
   Una regolazione manuale non è possibile, poichè 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 minimo.
   - Collegare la sonda ai collettori dei transistori T736, T756, T776 (piastra cinescopio). Valore nero dei tre segnali catodici ca. 140...150 V.
3. Regolazioni dell'oscillatore colore e PAL
   - Applicare un monoscopio FuBK.
   - Regolare ◑, ○ ed ◑ sul valore nominale.
   - Cortocircuitare i terminali 1 e 5 ed i terminali 24 e 25 dell'IC TDA 3566.
   - Fermare le barre colorate scorrevoli con il trimmer 2582 e togliere i cortocircuiti.
   - Collegare la sonda dell'oscilloscopio al terminale 17 dell'IC TDA 3566. Con il regolatore BP e la bobina LZ portare a copertura le immagini doppie del segnale B.

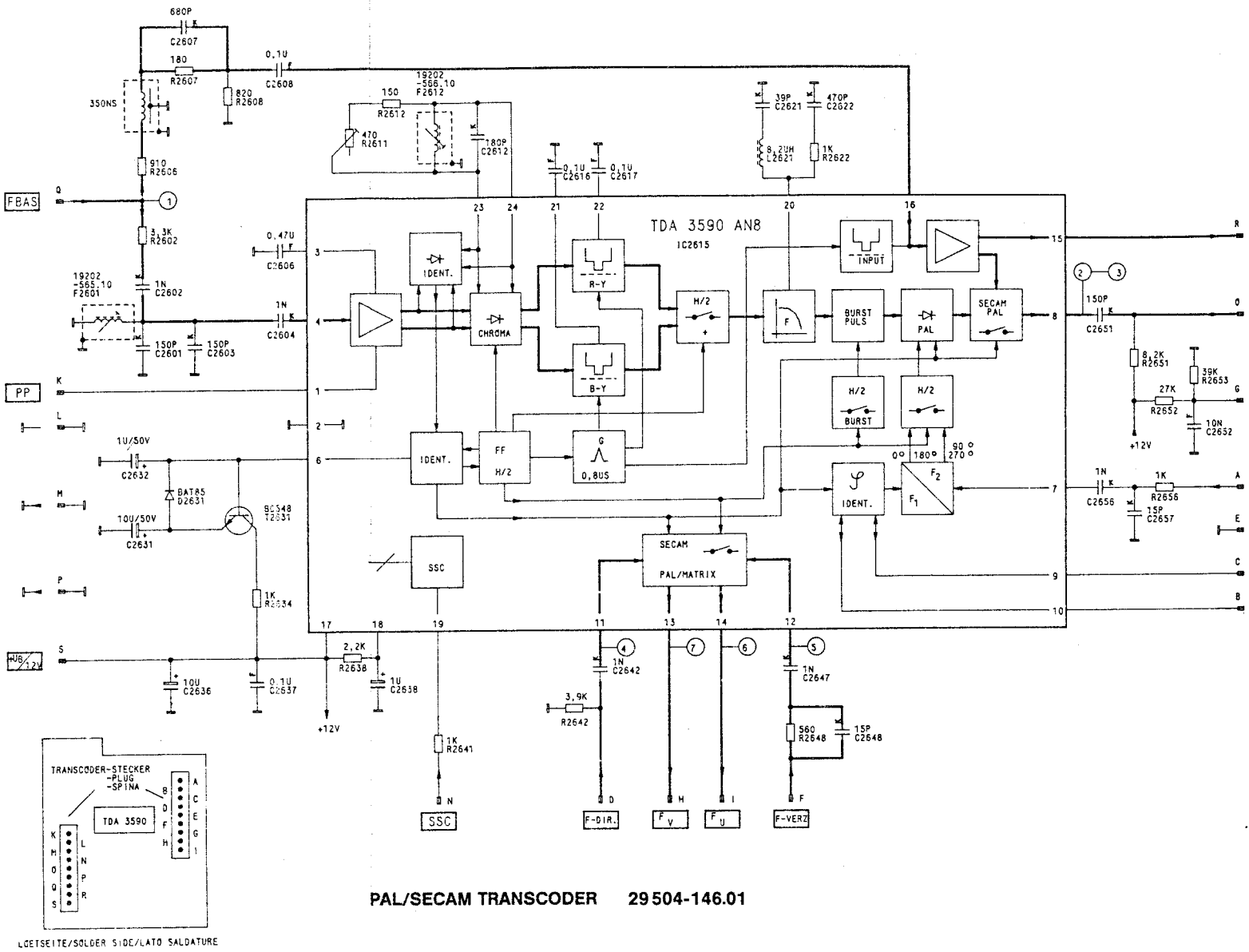
rd) so that the picture does not show any

ircuit board employs an automatic dark

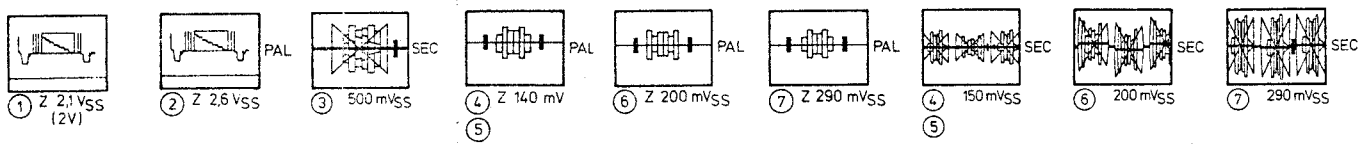
d), proceed as follows:

, T756, T776 (CRT socket board).
nals should be 140-150 V

ith pin 5 and pin 24 with 25.
s are correct. Remove short circuits.
6.
uble images of the B signal to coincide.



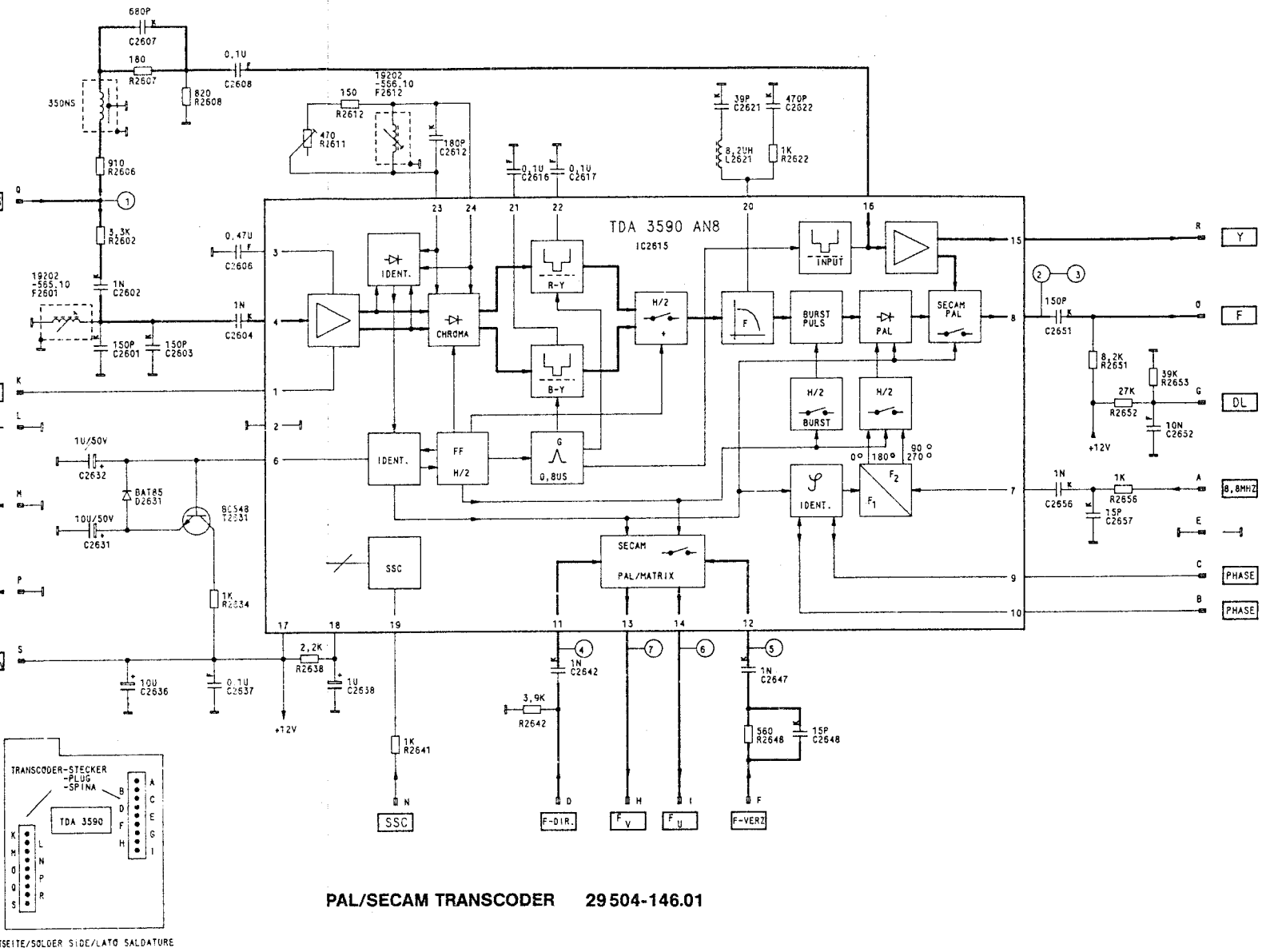
PAL/SECAM TRANSCODER 29504-146.01



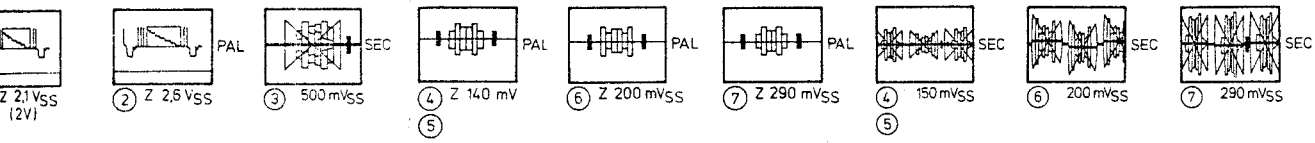
Wird die FARB/RGB-Steckkarte 29504-105.01 durch den PAL/SECAM-Transcoder 29504-146.01 auf SECAM nachgerüstet ist kein zusätzlicher Abgleich notwendig.

If the colour/RGB board 29504-105.01 is converted for SECAM with the PAL/SECAM Transcoder 29504-146.01, no additional alignment is necessary.

Se la scheda colore/RGB 29504-105.01 viene trasformata in SECAM con il transcoder PAL/SECAM 29504-146.01, non occorre effettuare nessun'altra taratura.



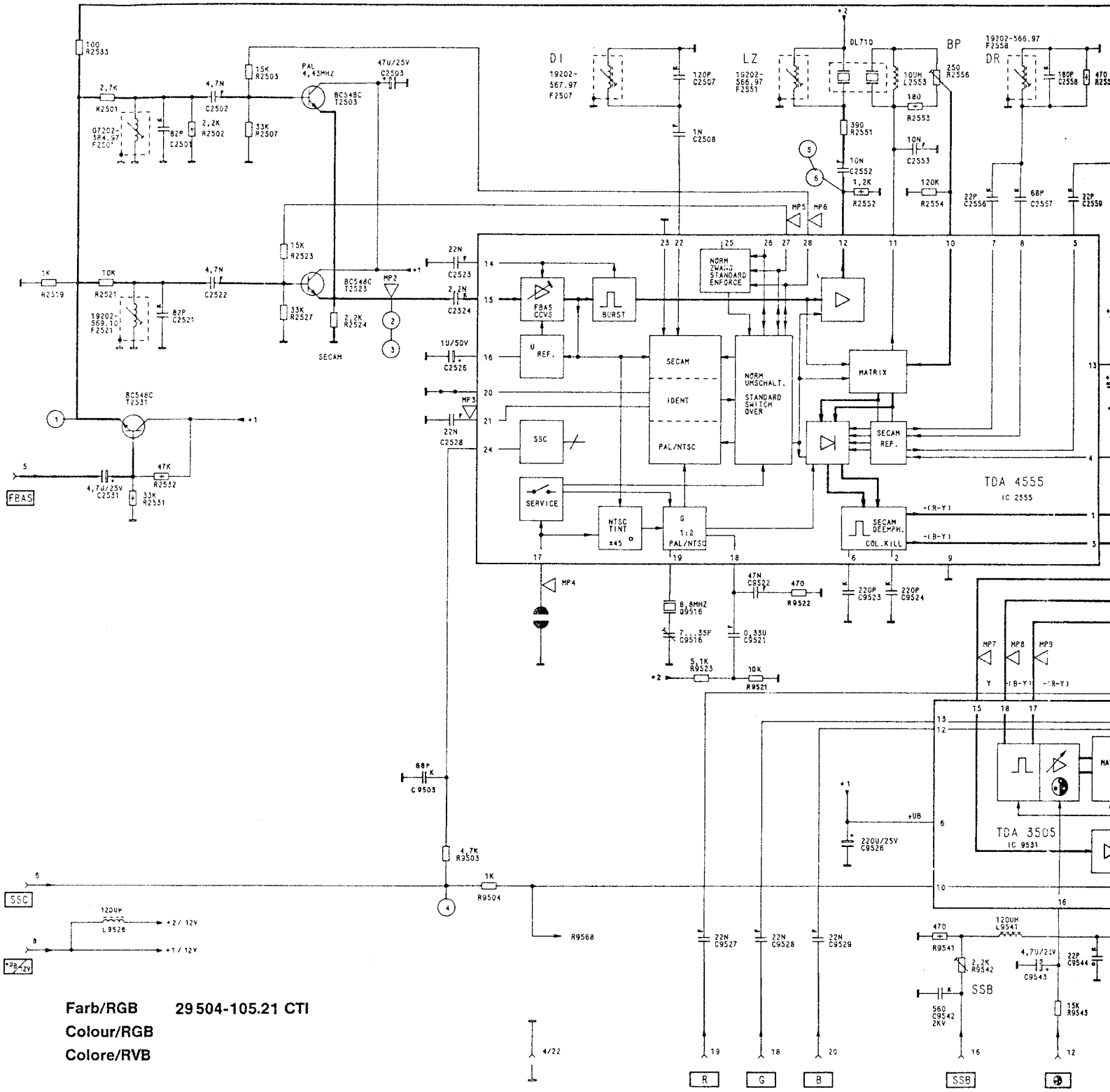
PAL/SECAM TRANSCODER 29504-146.01



Wird die FARB/RGB-Steckkarte 29504-105.01 durch den PAL/SECAM-Transcoder 29504-146.01 auf SECAM nachgerüstet ist kein zusätzlicher Abgleich notwendig.

If the colour/RGB board 29504-105.01 is converted for SECAM with the PAL/SECAM Transcoder 29504-146.01, no additional alignment is necessary.

Se la scheda colore/RGB 29504-105.01 viene trasformata in SECAM con il transcoder PAL/SECAM 29504-146.01, non occorre effettuare nessun'altra taratura.

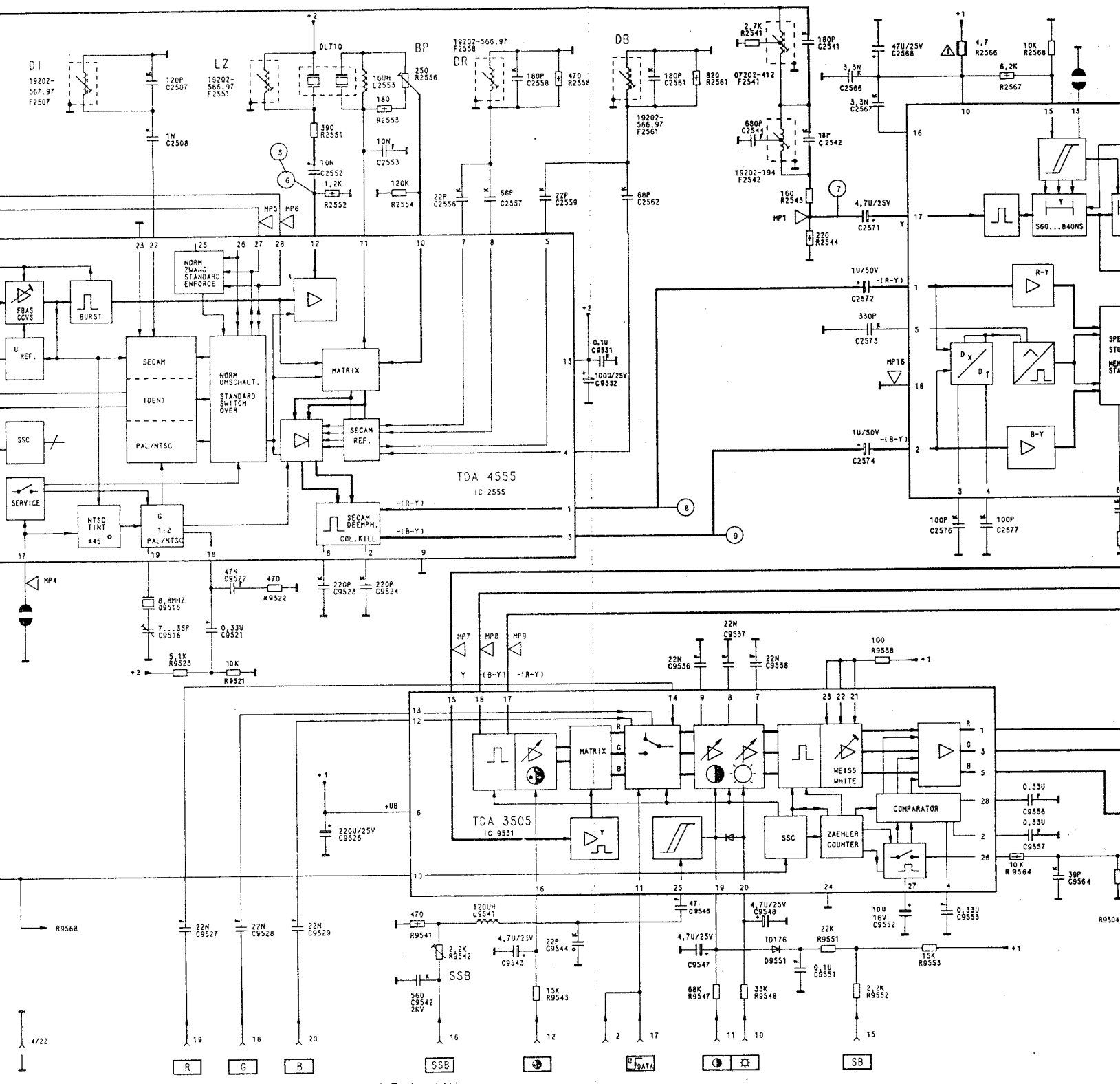


Farb/RGB 29504-105.21 CTI
Colour/RGB
Colore/RVB

1. Weißabgleich
   - FuBK-Testbild einspeisen.
   - ◑min., ○nom., ◑max., einstellen.
   - Regler VR und VB (Bildrohrplatte) so einstellen, daß keine Verfärbungen in den Grauwerten sichtbar sind.
2. Sperrpunktabgleich
   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.
   - Tastkopf an den Kollektoren der Transistoren T736, T756, T776 anhängen (Bildrohrplatte). Die Schwarzwerte der drei Kathodensignale liegen bei ca. 140 ... 150 V.
3. Einstellungen im Farbkanal
   - PAL-Testbild einspeisen.
   - FK nom., H nom., K max. einstellen.
   - IC-Pin 28 vom TDA 4555 mit + 12 V verbinden.
   - IC-Pin 17 vom TDA 4555 mit Masse verbinden.
   - Mit Trimmer C 9516 die durchlaufenden Farbbalken zum Stehen bringen.
   - Kurzschlußbrücken entfernen.
   - Tastkopf an MP 12, mit Regler BP und Spule LZ die Doppelbilder des B -Signals zur Deckung bringen.
   - SECAM-Testbild einspeisen.
   - Tastkopf an Pin 1 vom TDA 4555 anschließen, mit Spule DR Nullinie des (R-Y)-Signals auf Zeilentastniveau bringen.
   - Tastkopf an Pin 3 vom TDA 4555 anschließen, mit Spule DB Nullinie des (B-Y)-Signals auf Zeilentastniveau bringen.
   - Spule F 2521 so einstellen, daß das (B-Y)-Signal keine Überschwinger hat.

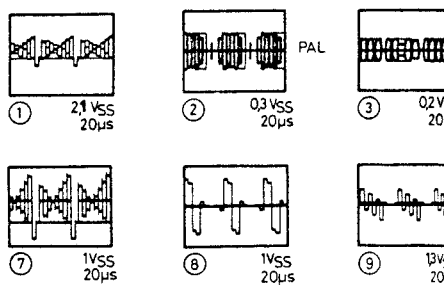
1. White level adjustment.
   - Display colour bar test pattern.
   - Set ◑ to min., ○ to nom., ◑ to max.
   - Adjust presets VR and VB (CRT socket board) so that the picture does not show any colouration.
2. Adjustment of cut-off point.
   Manual adjustment is not possible, as the circuit board employs an automatic dark current control circuit.
   To check cut-off point (oscilloscope required), proceed as follows:
   - Display colour bar test pattern.
   - Set ◑ to min., ○ to nom., ◑ to min.
   - Connect test probe to collectors of T736, T756, T776 (CRT socket board). The black levels of the three cathode signals should be 140-150 V.
3. Adjustments in chroma channel.
   - Display PAL test pattern.
   - Adjust colour level and brightness to nominal value, contrast to maximum.
   - Connect pin 28 of IC TDA 4555 to + 12 V supply.
   - Connect pin 17 to IC TDA 4555 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 4555.
   - 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 4555.
   - With 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.

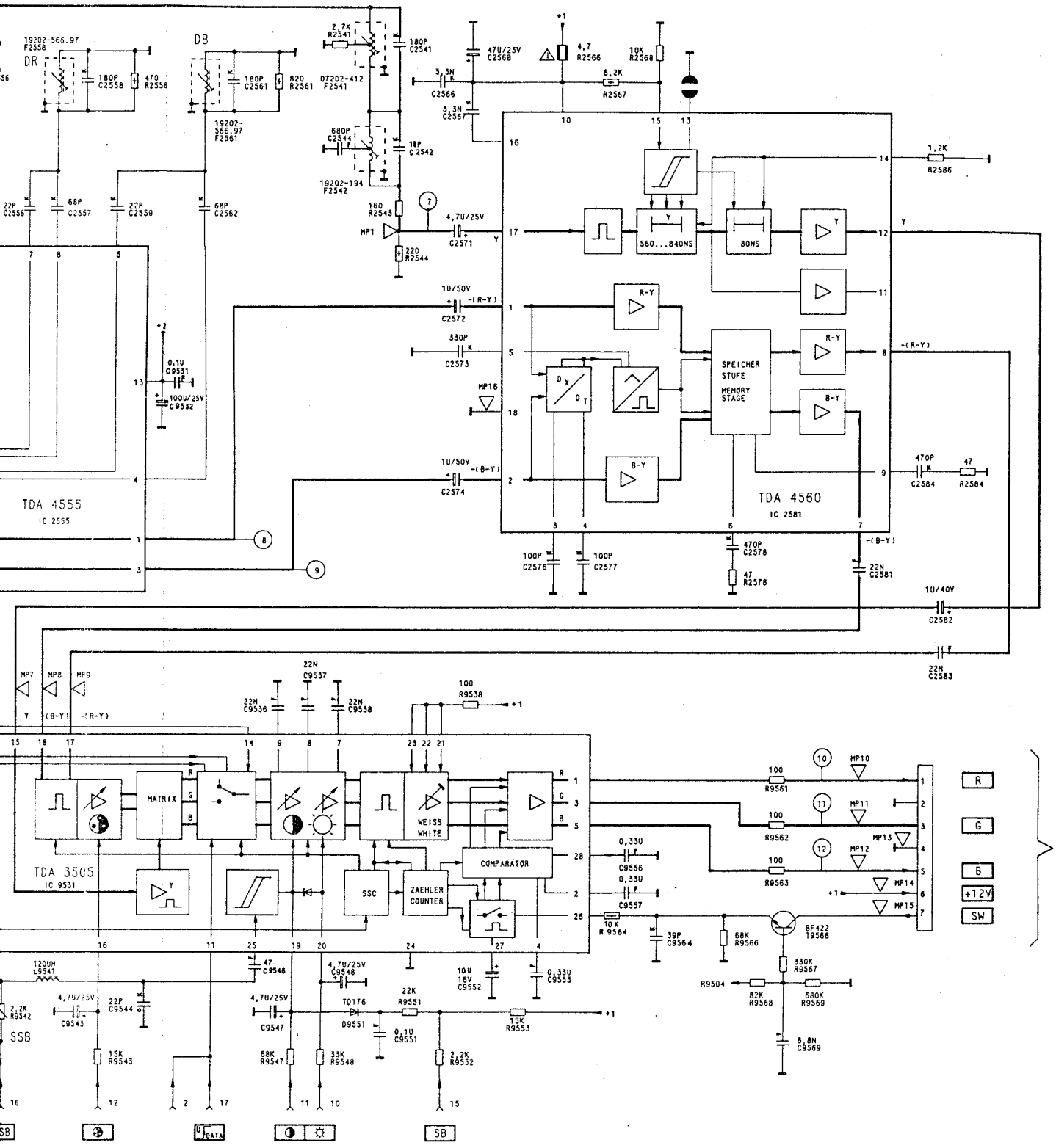
1. Taratura del bianco
   - Applicare un monoscopio FuBK
   - Regolare ◑ al minimo, ○ sul valore nom
   - Con VR e VB (piastra cinescopio) elimina
2. Taratura del punto di blocco.
   Una regolazione manuale non è possibile, p regolazione automatica della corrente d'inte Controllo del punto di blocco (è necessario
   - Applicare un monoscopio FuBK.
   - Regolare ◑ al minimo, ○ sul valore nom
   - Collegare la sonda ai collettori dei transisto Valore nero dei tre segnali catodici ca. 14
3. Regolazione del canale colore.
   - Applicare un monoscopio PAL.
   - Regolare FK e H sul valore nominale, K a
   - Sull'integrato TDA 4555 collegare pin 28
   - Sull'integrato TDA 4555 collegare pin 17 a Con C 9516 fermare le barre colorate sco
   - Togliere i cortocircuiti.
   - Collegare la sonda a MP 12, con il regolator immagini doppie del segnale B .
   - Applicare un monoscopio SECAM.
   - Collegare la sonda al pin 1 dell'integrato con la bobina DR portare la linea zero de livello della frequenza di riga.
   - Collegare la sonda al pin 3 dell'integrato con la bobina DB portare la linea zero de livello della frequenza di riga.
   - La bobina F 2521 applicarla così in modo



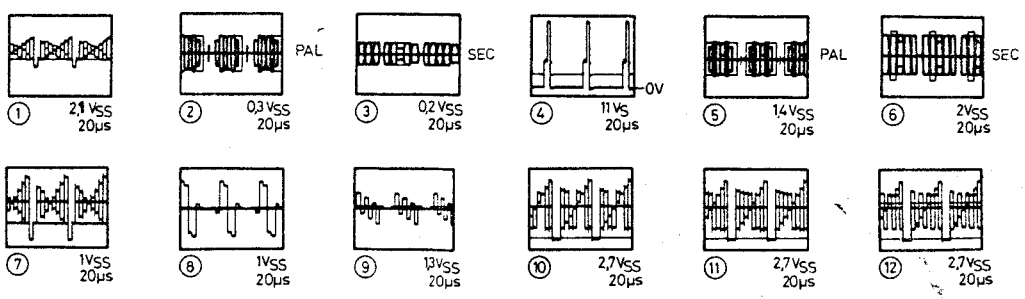
el adjustment.
y colour bar test pattern.
to min., ☼ to nom., ◑ to max.
presets VR and VB (CRT socket board) so that the picture does not show any
ration.
nt of cut-off point.
djustment is not possible, as the circuit board employs an automatic dark
ontrol circuit.
cut-off point (oscilloscope required), proceed as follows:
y colour bar test pattern.
to min., ☼ to nom., ◑ to min.
ect test probe to collectors of T736, T756, T776 (CRT socket board).
lack levels of the three cathode signals should be 140-150 V.
nts in chroma channel.
y PAL test pattern.
t colour level and brightness to nominal value, contrast to maximum.
ect pin 28 of IC TDA 4555 to + 12 V supply.
ect pin 17 to IC TDA 4555 to chassis.
t trimmer C 9516 for stationary pattern in colour bars.
ve wire links.
ect test probe to test point MP 12. Bring the double image produced by the
gnal to coincidence by adjusting the preset BP and the coil LZ.
y SECAM test pattern.
ect test probe to pin 1 of IC TDA 4555.
oil DR to align zero level of the (R-Y) signal with the line black level.
ect test probe to pin 3 of IC TDA 4555.
oil DB to align zero level of the (B-Y) signal with the line black level.
t coil F 2521 so that the (B-Y) signal is free of overshooting.

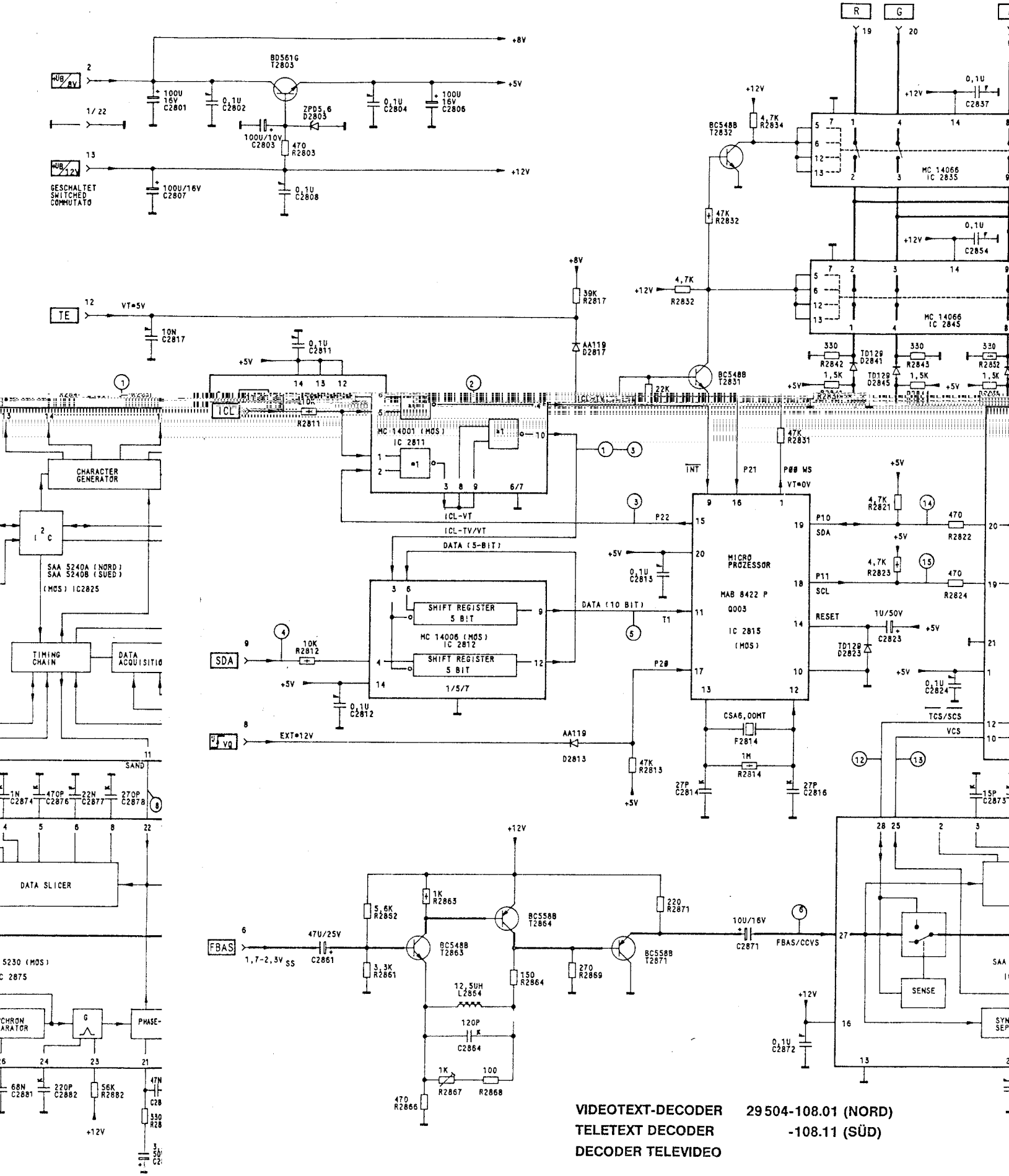
1. Taratura del bianco
   - Applicare un monoscopio FuBK
   - Regolare ◑ al minimo, ☼ sul valore nominale e ◑ al massimo.
   - Con VR e VB (piastra cinescopio) eliminare eventuali macchie di colore.
2. Taratura del punto di blocco.
   Una regolazione manuale non è possibile, poichè questa scheda incorpora 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 minimo.
   - Collegare la sonda ai colletori dei transistori T736, T756, T776 (piastra cinescopio). Valore nero dei tre segnali catodici ca. 140...150 V.
3. Regolazione del canale colore.
   - Applicare un monoscopio PAL.
   - Regolare FK e H sul valore nominale, K al massimo.
   - Sull'integrato TDA 4555 collegare pin 28 a +12 V.
   - Sull'integrato TDA 4555 collegare pin 17 a massa. Con C 9516 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 4555, 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 4555, 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 signale (B-Y) sia chiaro.

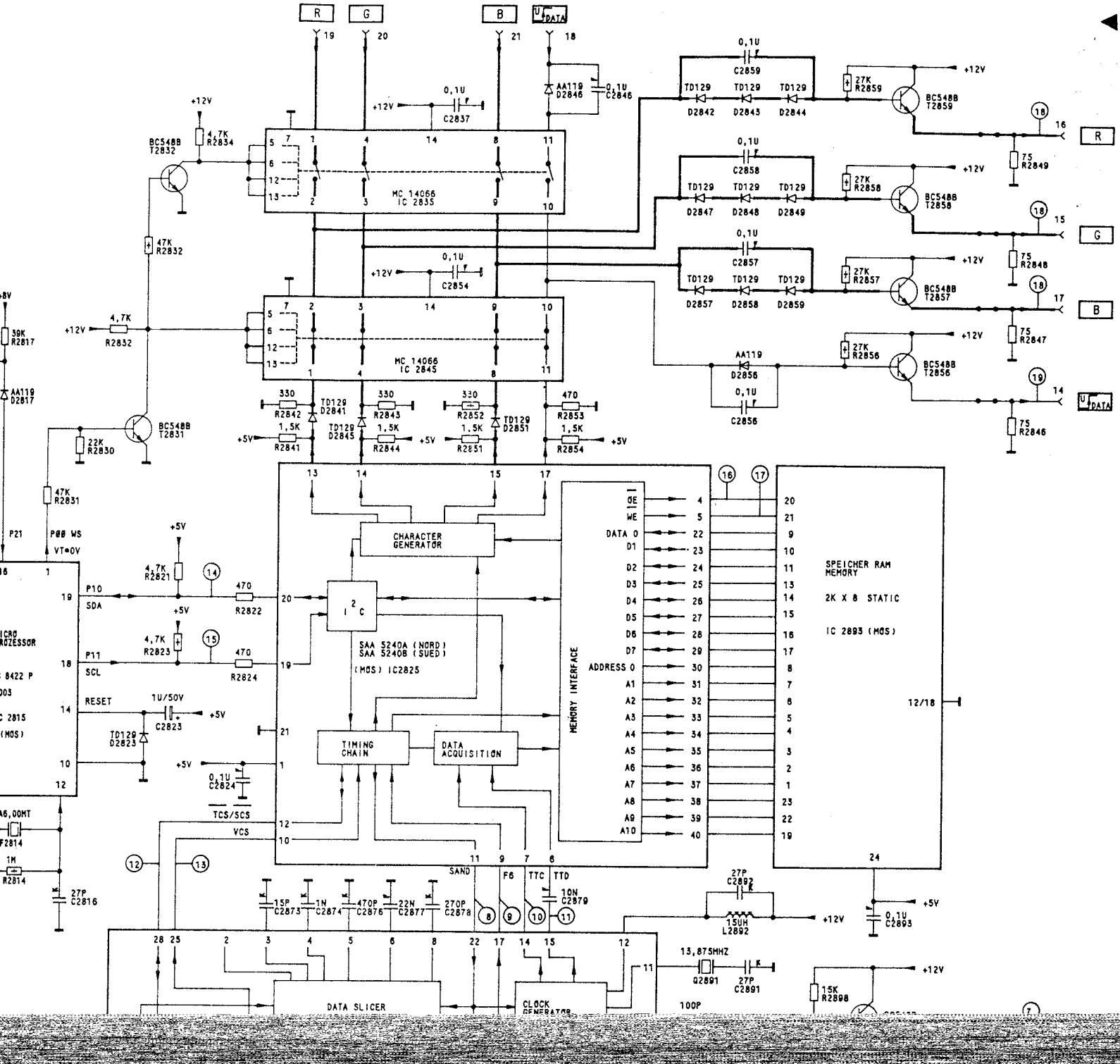




el bianco
re un monoscopio FuBK
re ⊖ al minimo, ☼ sul valore nominale e ◑ al massimo.
l e VB (piastra cinescopio) eliminare eventuali macchie di colore.
el punto di blocco.
azione manuale non è possibile, poichè questa scheda incorpora una
e automatica della corrente d'interdizione.
del punto di blocco (è necessario un oscilloscopio):
re un monoscopio FuBK.
re ⊖ al minimo, ☼ sul valore nominale e ◑ al minimo.
re la sonda ai collettori dei transistori T 736, T 756, T 776 (piastra cinescopio).
nero dei tre segnali catodici ca. 140...150 V.
he del canale colore.
re un monoscopio PAL.
re FK e H sul valore nominale, K al massimo.
grato TDA 4555 collegare pin 28 a + 12 V.
grato TDA 4555 collegare pin 17 a massa.
9516 fermare le barre colorate scorrevoli.
i cortocircuiti.
re la sonda a MP 12, con il regolatore BP e la bobina LZ portare a copertura le
ni doppie del segnale B .
re un monoscopio SECAM.
re la sonda al pin 1 dell'integrato TDA 4555,
bobina DR portare la linea zero del segnale (R-Y) sul
ella frequenza di riga.
re la sonda al pin 3 dell'integrato TDA 4555,
bobina DB portare la linea zero del segnale (B-Y) sul
ella frequenza di riga.
na F 2521 applicarla così in modo che il segnale (B-Y) sia chiaro.



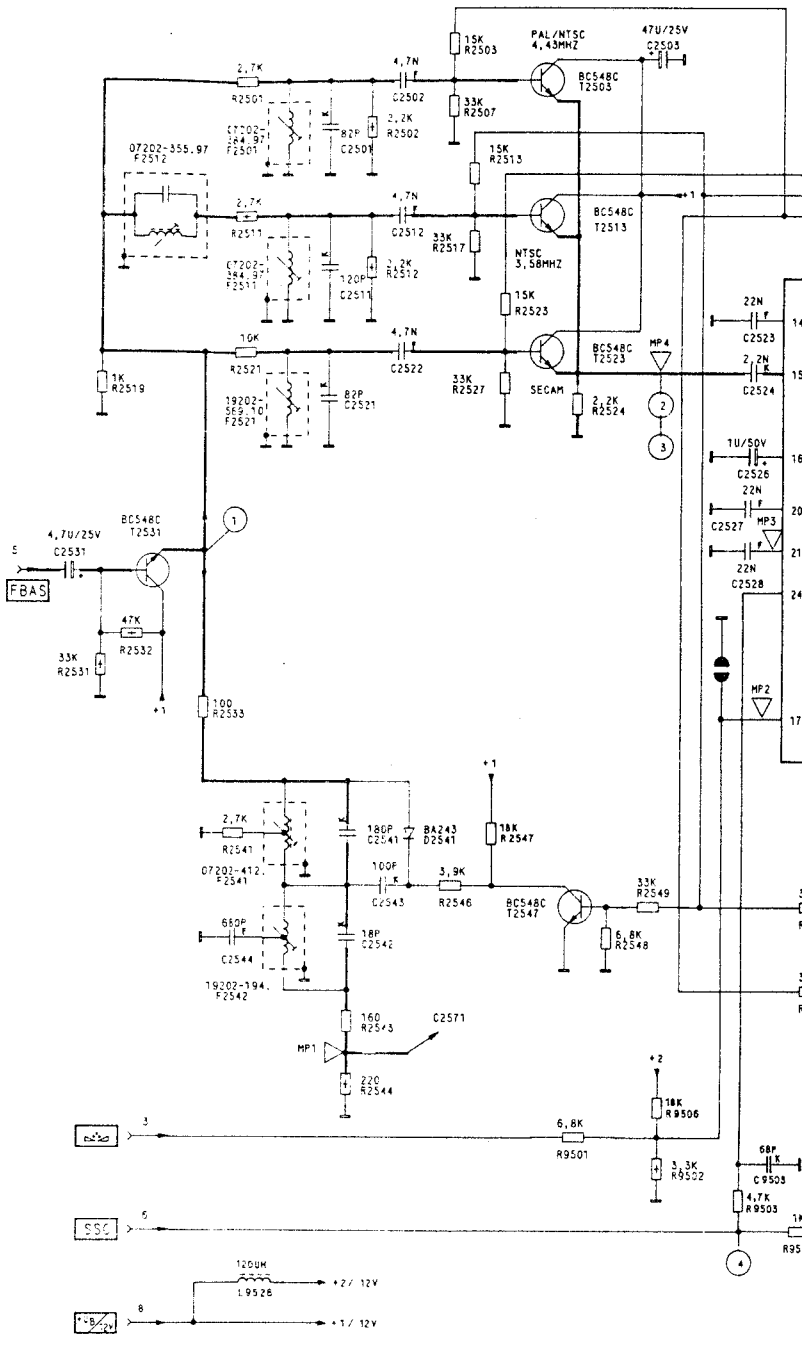

+8V
+5V
+12V
BD561G T2803
ZPD5,6 D2803
100U 16V C2801
0,1U C2802
100U/10V C2803
470 R2803
0,1U C2804
100U 16V C2806
100U/16V C2807
0,1U C2808
GESCHALTET SWITCHED COMMUTATO
1/22
R
G
BC548B T2832
4,7K R2834
47K R2832
MC 14066 IC 2835
MC 14066 IC 2845
0,1U C2837
0,1U C2854
TE
VT=5V
10N C2817
39K R2817
AA119 D2817
4,7K R2832
330 R2842
330 R2843
330 R2852
TD129 D2841
TD129 D2845
1,5K
BC548B T2831
22K
0,1U C2811
ICL
R2811
MC 14001 (MOS) IC 2811
47K R2831
INT
P21
P## WS
VT=0V
CHARACTER GENERATOR
I²C
SAA 5240A (NORD) SAA 5240B (SUED) (MOS) IC2825
TIMING CHAIN
DATA ACQUISITIO
ICL-VT
ICL-TV/VT
DATA (5-BIT)
SHIFT REGISTER 5 BIT
MC 14006 (MOS) IC 2812
1/5/7
DATA (10 BIT)
MICRO PROZESSOR
MAB 8422 P
Q003
IC 2815
(MOS)
P22
P20
T1
P10
SDA
P11
SCL
RESET
4,7K R2821
4,7K R2823
470 R2822
470 R2824
1U/50V C2823
TD128 D2823
0,1U C2824
TCS/SCS
VCS
0,1U C2813
0,1U C2812
10K R2812
SDA
EXT=12V
AA119 D2813
47K R2813
CSA6,00MT F2814
1M R2814
27P C2814
27P C2816
15P C2873
SAND
1N C2874
470P C2876
22N C2877
270P C2878
DATA SLICER
5230 (MOS)
C 2875
PHASE-
68N C2881
220P C2882
56K R2682
FBAS
1,7-2,3V SS
47U/25V C2861
1K R2863
5,6K R2862
3,3K R2861
BC548B T2863
BC558B T2864
220 R2871
BC558B T2871
10U/16V C2871
FBAS/CCVS
150 R2864
270 R2869
12,5UH L2864
120P C2864
1K R2867
100 R2868
470 R2866
SENSE
0,1U C2872
VIDEOTEXT-DECODER 29504-108.01 (NORD)
TELETEXT DECODER -108.11 (SÜD)
DECODER TELEVIDEO
① ICL-TV-10BIT CLOCK 100µsec/cm
② 10 BIT CLOCK 100µsec/cm
③ ICL-TV-9BIT CLOCK 100µsec/cm
① 10BIT-,9BIT CLOCK ③ 200µsec/cm
④ BITFOLGE JE NACH TASTENDRUCK (BILD TASTE 1) 100µsec/cm
⑤ BITFOLGE JE NACH TASTENDRUCK (BILD TASTE 1) 100µsec/cm
⑥ FBAS DC +5V AC 2,5-3,5 Vss 10µsec/cm
⑦ SYNC VT DC +2,5V AC 0,5 Vss 10µsec/cm
⑦ SYNC TV DC AC 1,5 Vss 10µsec/cm
⑧ DC +3V/AC 4,5 Vss 10µsec/cm


R
G
B
U DATA
MC 14066 IC 2835
MC 14066 IC 2845
CHARACTER GENERATOR
I²C
SAA 5240A (NORD)
SAA 5240B (SUED)
(MOS) IC2825
TIMING CHAIN
DATA ACQUISITION
MEMORY INTERFACE
SPEICHER RAM MEMORY
2K X 8 STATIC
IC 2893 (MOS)
DATA SLICER
CLOCK GENERATOR
SDA
SCL
RESET
TCS/SCS
VCS
SAND
F6
TTC
TTD
13,875MHZ
Q2891
15UH L2892
100P

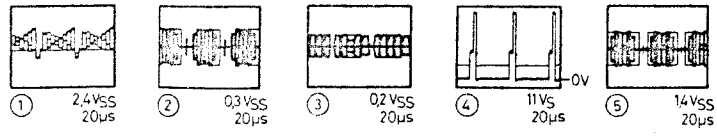
1. Weißabgleich
   - FuBK-Testbild einspeisen.
   - ◑min., ○nom., ◑max., einstellen.
   - Regler VR und VB (Bildrohrplatte) so einstellen, daß keine Verfärbungen in den Grauwerten sichtbar sind.
2. Sperrpunktabgleich
   Eine manuelle Einstellung ist nicht möglich, da die Steckkarte eine automatische Dunkelstromregelung besitzt. Kontrolle des Sperrpunkts (Oszilloskop erforderlich).
   - FuBK-Testbild einspeisen.
   - ◑min., ○nom., ◑min., einstellen.
   - Tastkopf an den Kollektoren der Transistoren T736, T756, T776 anhängen (Bildrohrplatte). Die Schwarzwerte der drei Kathodensignale liegen bei ca. 140 ... 150 V (26"-Geräte).
3. Einstellungen im Farbkanal
   - PAL-Testbild einspeisen.
   - FK nom., H nom., K max. einstellen.
   - IC-Pin 28 vom TDA 4555 mit + 12 V verbinden.
   - IC-Pin 17 vom TDA 4555 mit Masse verbinden.
   - Mit Trimmer C 9516 die durchlaufenden Farbbalken zum Stehen bringen.
   - Kurzschlußbrücken entfernen.
   - Tastkopf an MP 12, mit Regler BP und Spule LZ die Doppelbilder des B-Signals zur Deckung bringen.
   - NTSC-Testbild 3,5 MHz einspeisen.
   - IC-Pin 26 vom TDA 4555 mit 12 V verbinden.
   - IC-Pin 17 vom TDA 4555 mit Masse verbinden.
   - Mit Trimmer C 9514 die durchlaufenden Farbbalken zum Stehen bringen.
   - Kurzschlußbrücken entfernen.
   - SECAM-Testbild einspeisen.
   - Tastkopf an Pin 1 vom TDA 4555 anschließen, mit Spule DR Nullinie des (R-Y)-Signals auf Zeilenniveau bringen.
   - Tastkopf an Pin 3 vom TDA 4555 anschließen, mit Spule DB Nullinie des (B-Y)-Signals auf Zeilentastniveau bringen.
   - Spule F 2521 so einstellen, daß das (B-Y)-Signal keine Überschwinger hat.

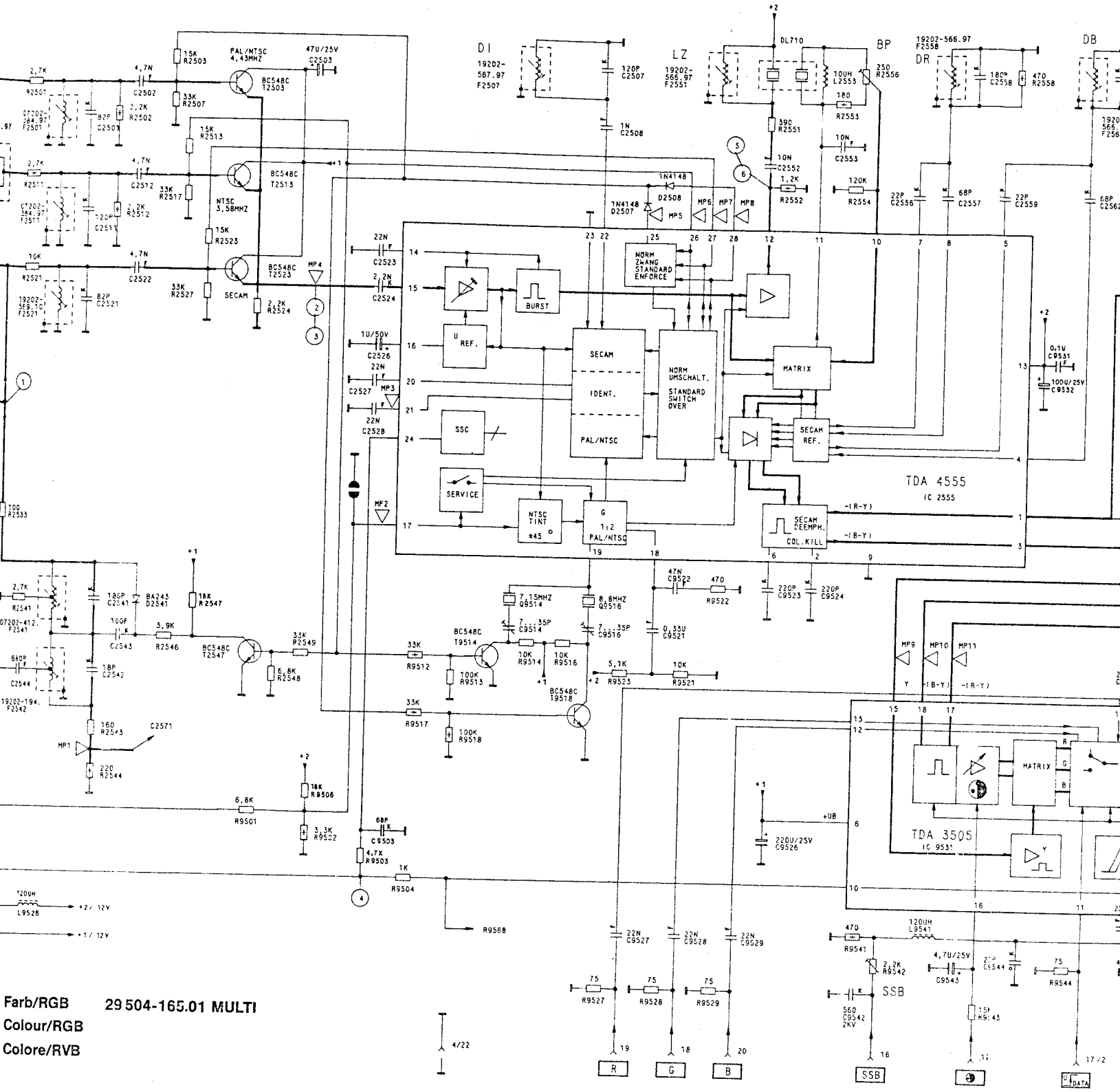
1. White level adjustment.
   - Display colour bar test pattern.
   - Set ◑ to min., ○ to nom., ◑ to max.
   - Adjust presets VR and VB (CRT socket board) so that the picture does not show any colouration.
2. Adjustment of cut-off point.
   Manual adjustment is not possible, as the circuit board employs an automatic dark current control circuit.
   To check cut-off point (oscilloscope required), proceed as follows:
   - Display colour bar test pattern.
   - Set ◑ to min., ○ to nom., ◑ to min.
   - Connect test probe to collectors of T736, T756, T776 (CRT socket board). The black levels of the three cathode signals should be 140-150 V (26" sets).
3. Adjustments in chroma channel.
   - Display PAL test pattern.
   - Adjust colour level and brightness to nominal value, contrast to maximum.
   - Connect pin 28 of IC TDA 4555 to + 12 V supply.
   - Connect pin 17 to IC TDA 4555 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 3.5 MHz NTSC test pattern.
   - Connect pin 26 of IC TDA 4555 to 12 V supply.
   - Connect pin 17 of IC TDA 4555 to chassis.
   - Adjust trimmer C 9514 for stationary pattern in colour bars.
   - Remove wire links.
   - Display SECAM test pattern.
   - Connect test probe to pin 1 of IC TDA 4555.
   - 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 4555.
   - With 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.

1. Taratura del bianco
   - Applicare un monoscopio FuBK
   - Regolare ◑ al minimo, ○ sul valore nominale e ◑ al massimo.
   - Con i regolatori VR e VB (piastra cinescopio) eliminare eventuali macchie di colore.
2. Taratura del punto di blocco
   Una regolazione manuale non è possibile, poichè 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 minimo.
   - Collegare la sonda ai collettori dei transistori T736, T756, T776 (piastra cinescopio). Valore nero dei tre segnali catodici ca. 140...150 V (apparecchi da 26").
3. Regolazione del canale colore.
   - Applicare un monoscopio PAL.
   - Regolare FK e H sul valore nominale, K al massimo.
   - Sull'integrato TDA 4555 collegare pin 28 a + 12 V.
   - Sull'integrato TDA 4555 collegare pin 17 a massa.
     Con C 9516 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 NTSC 3,5 MHz.
   - Sull'integrato TDA 4555 collegare pin 26 a 12 V.
   - Sull'integrato TDA 4555 collegare pin 17 a massa.
   - Con C 9514 fermare le barre colorate scorrevoli.
   - Togliere i cortocircuiti.
   - Applicare un monoscopio SECAM.
   - Collegare la sonda al pin 1 dell'integrato TDA 4555, 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 4555, con la bobina DB portare la linea zero del segnale (B-Y) sul livello della frequenza di riga.
   - La bobina F 2581 applicarla così in modo che il signale (B-Y) sia chiaro.

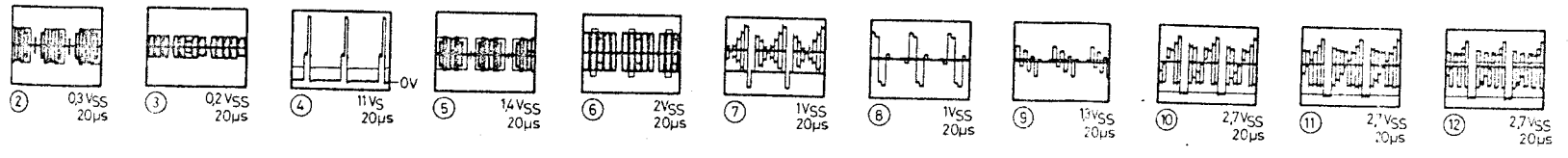


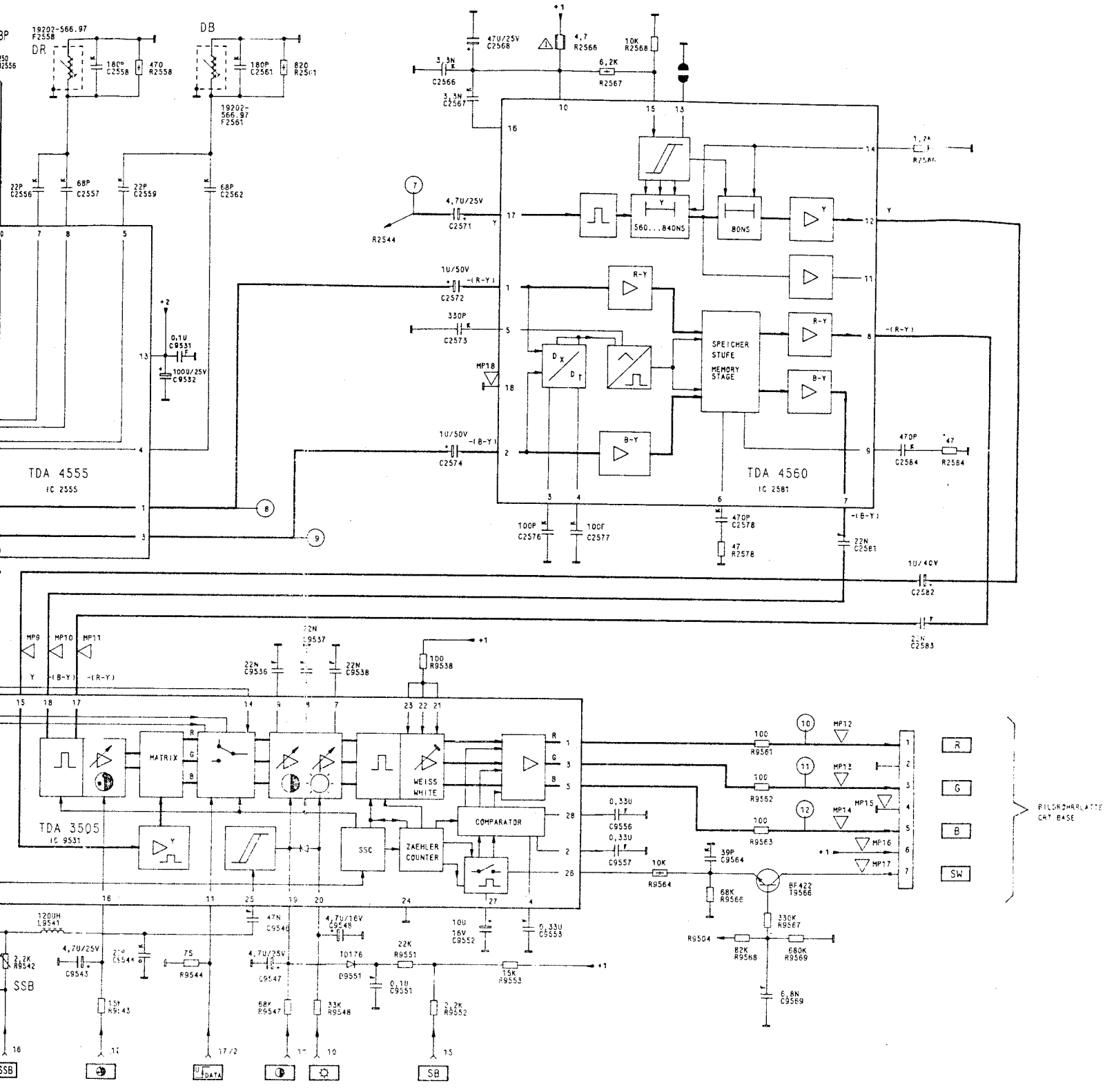
Farb/RGB 29 504-165.01 MULTI
Colour/RGB
Colore/RVB

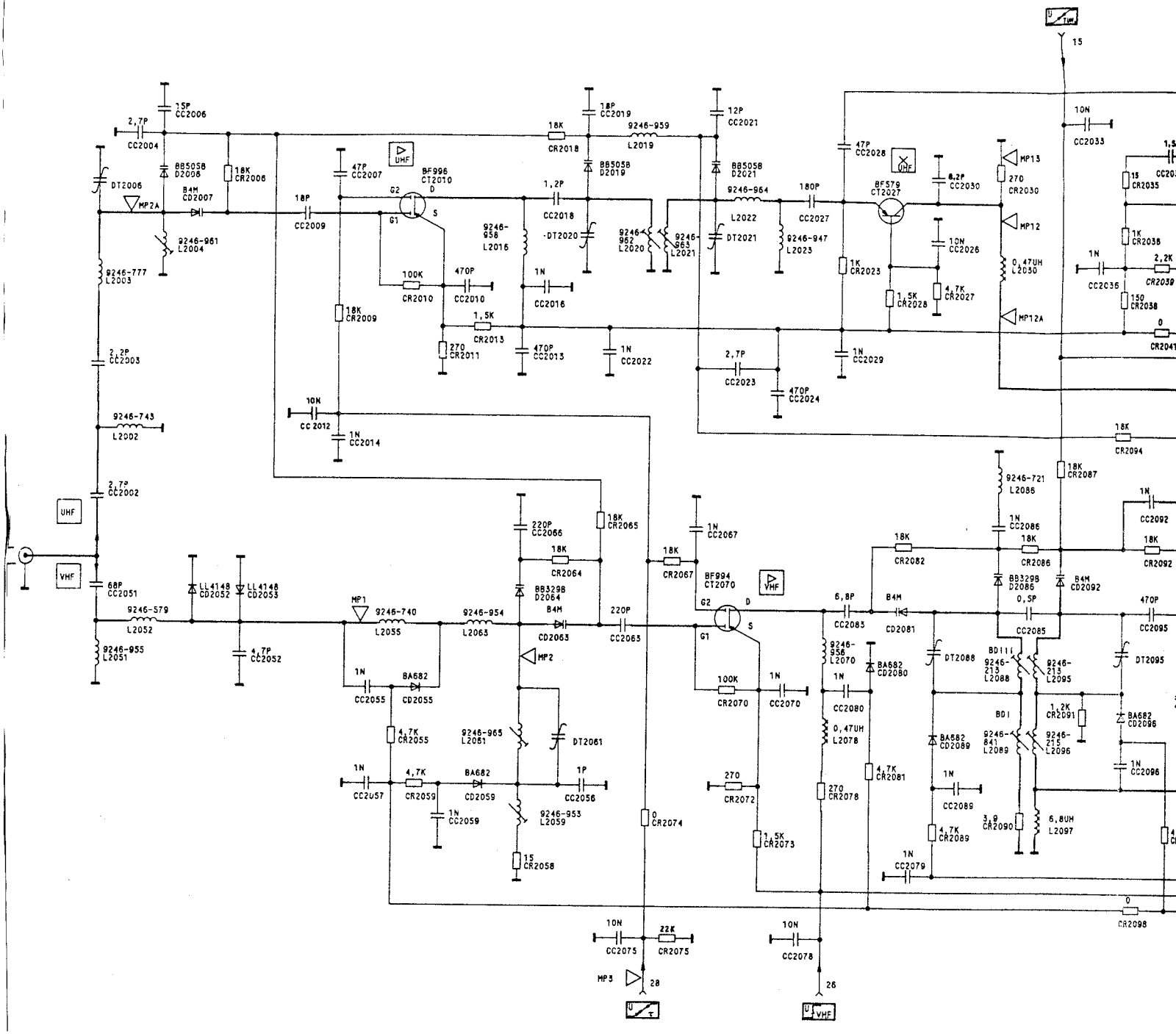


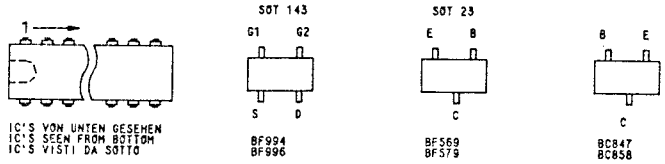


Farb/RGB **29 504-165.01 MULTI**
Colour/RGB
Colore/RVB



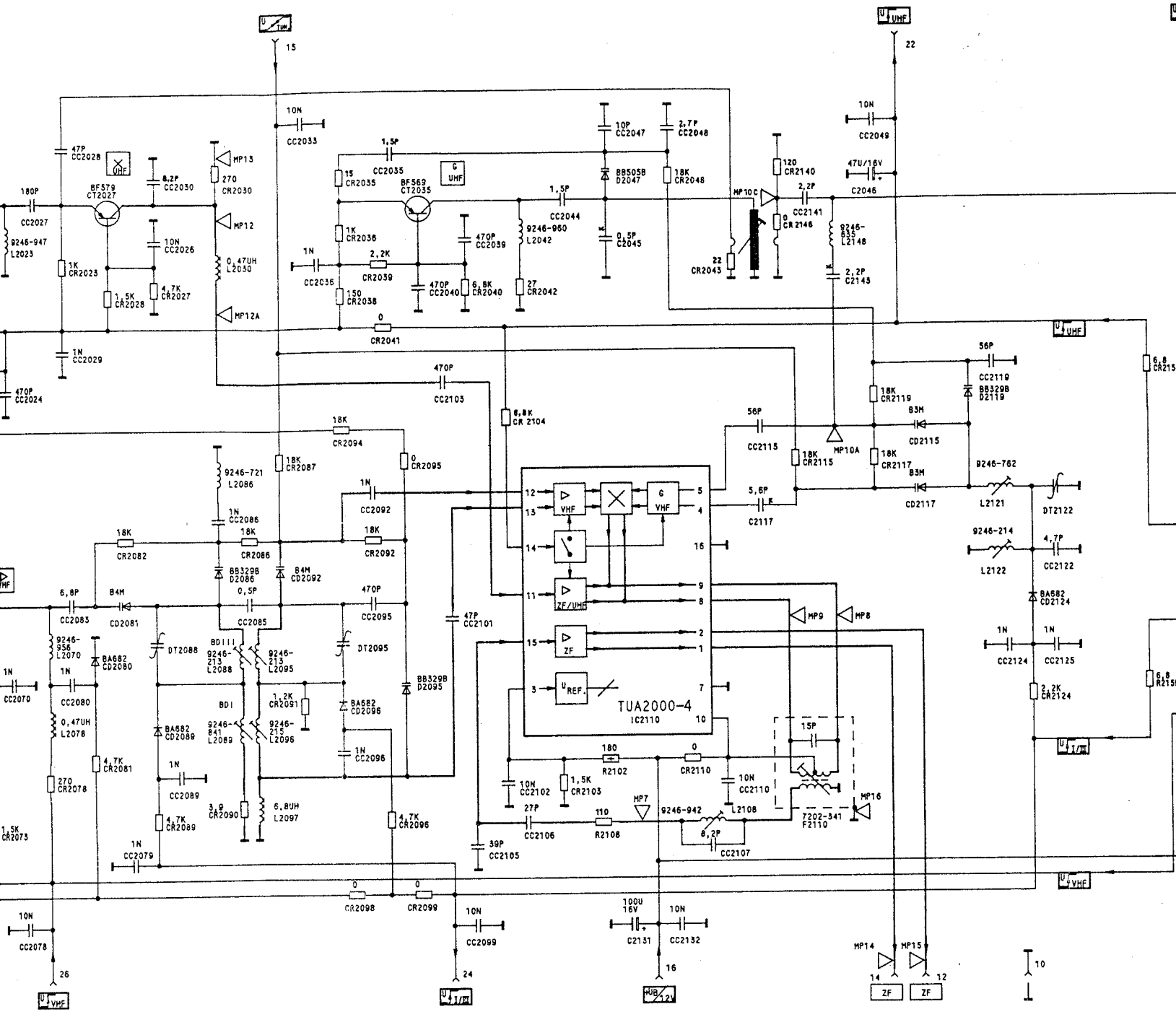

TDA 4555
IC 2555
TDA 4560
IC 2561
TDA 3505
IC 9531
SPEICHER STUFE
MEMORY STAGE
MATRIX
WEISS WHITE
COMPARATOR
SSC
ZAEHLER COUNTER
DR
DB
SSB
SB
R
G
B
SW
BILDRÖHRENPLATTE CRT BASE
2,7Vss 20µs
2,7Vss 20µs
2,7Vss 20µs



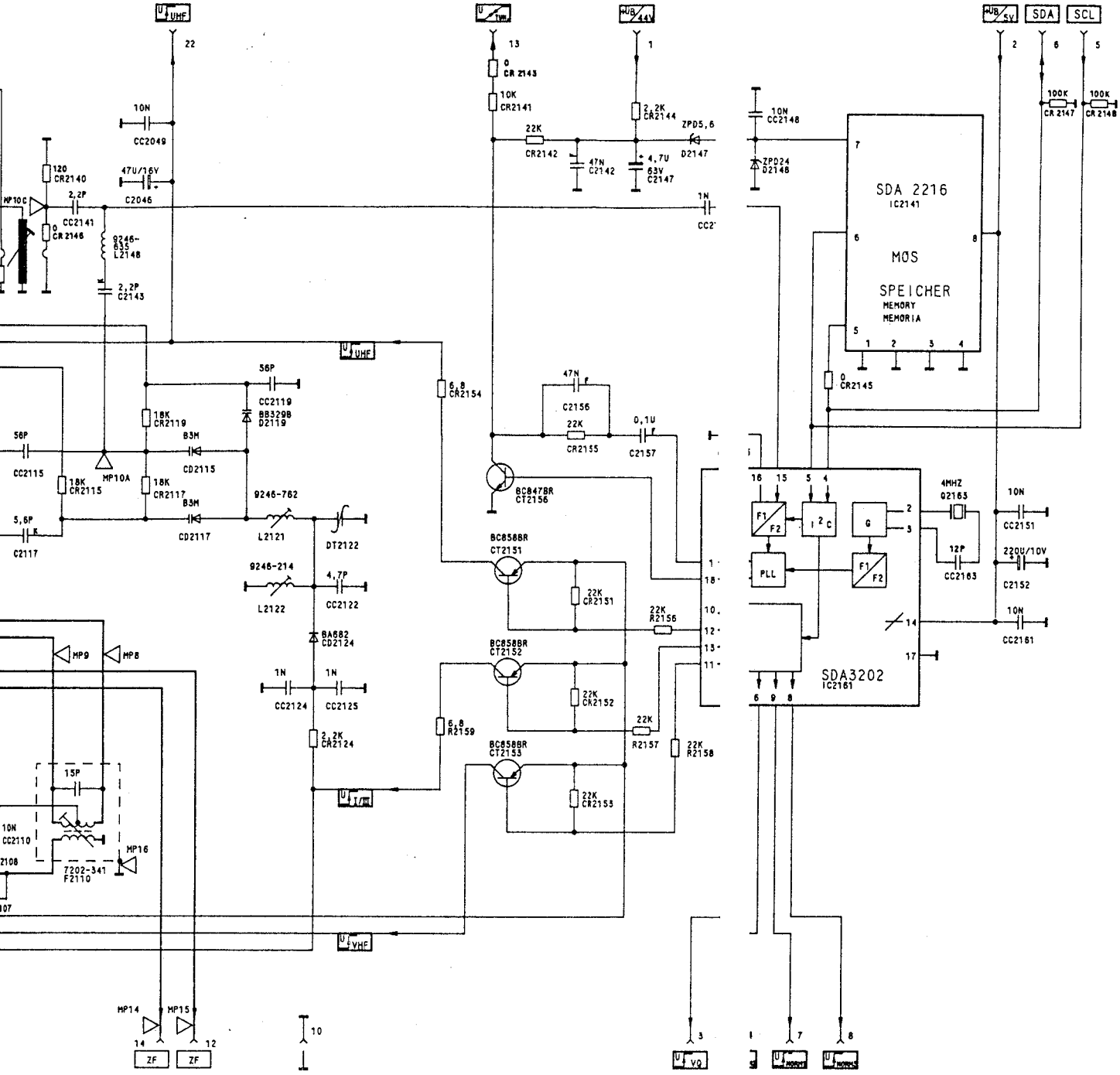


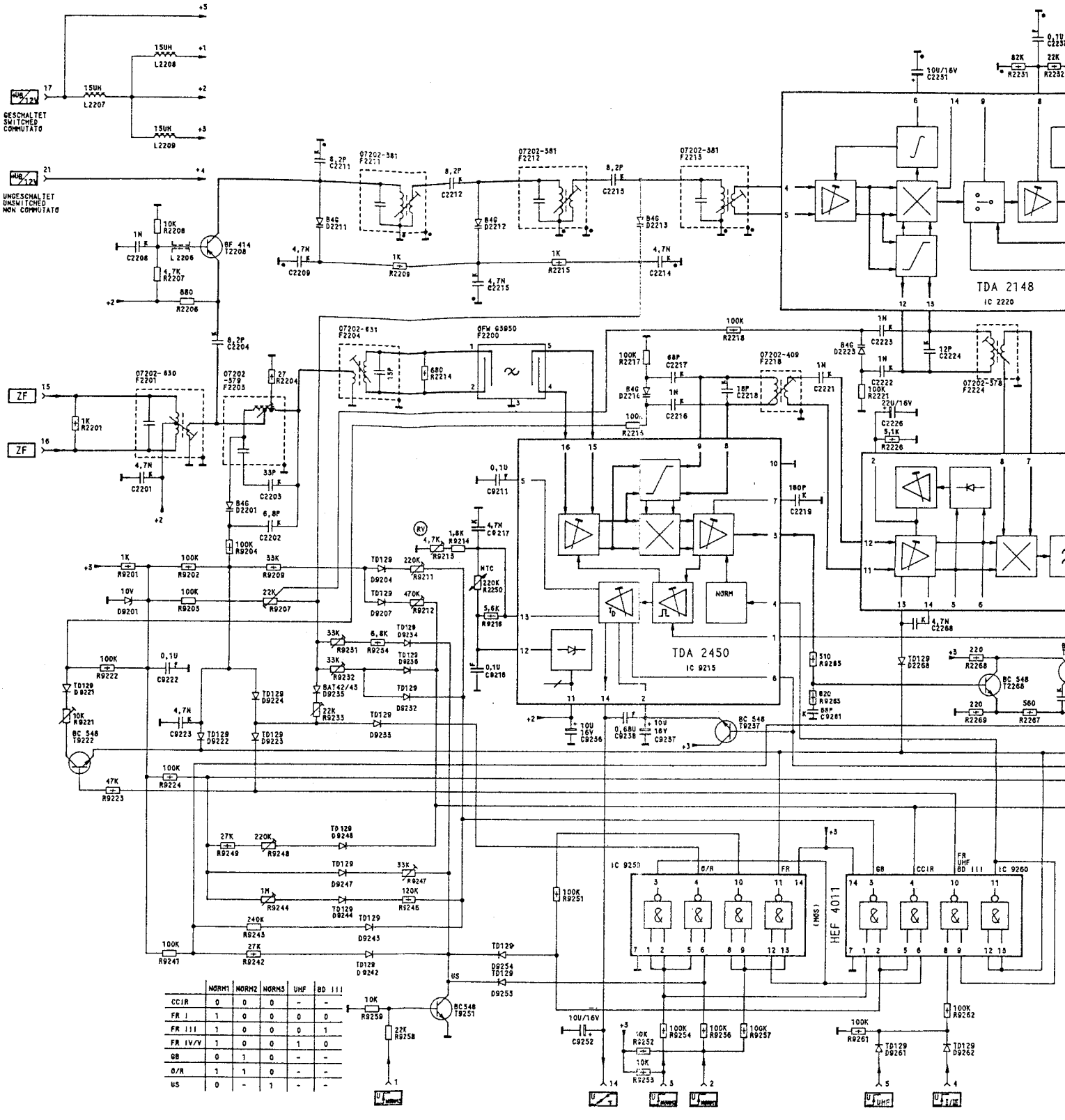
Kabe
Cabl
Tune

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



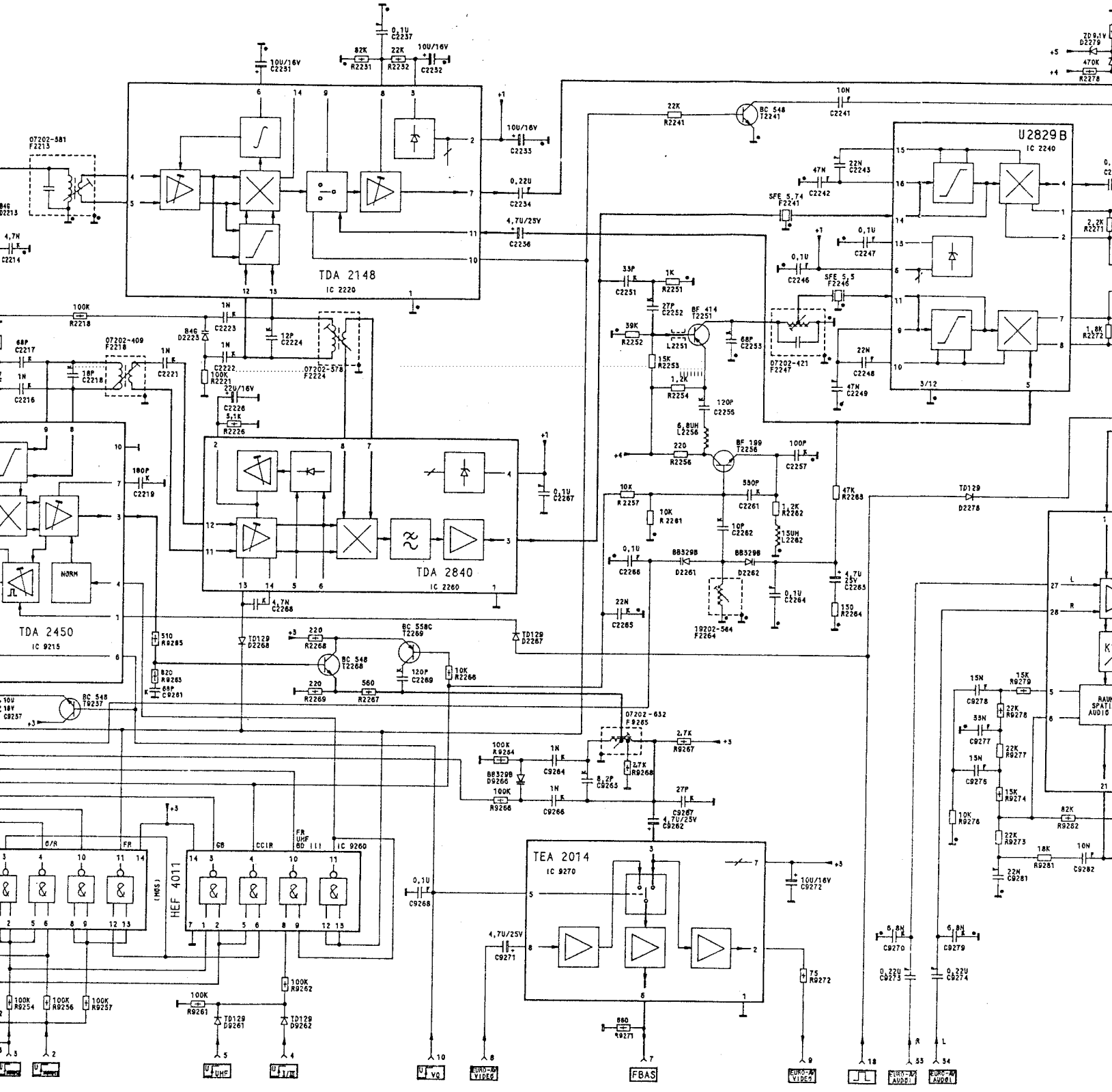
Kabeltuner 29504-101.01
Cable TV Tuner
Tuner TV cavo

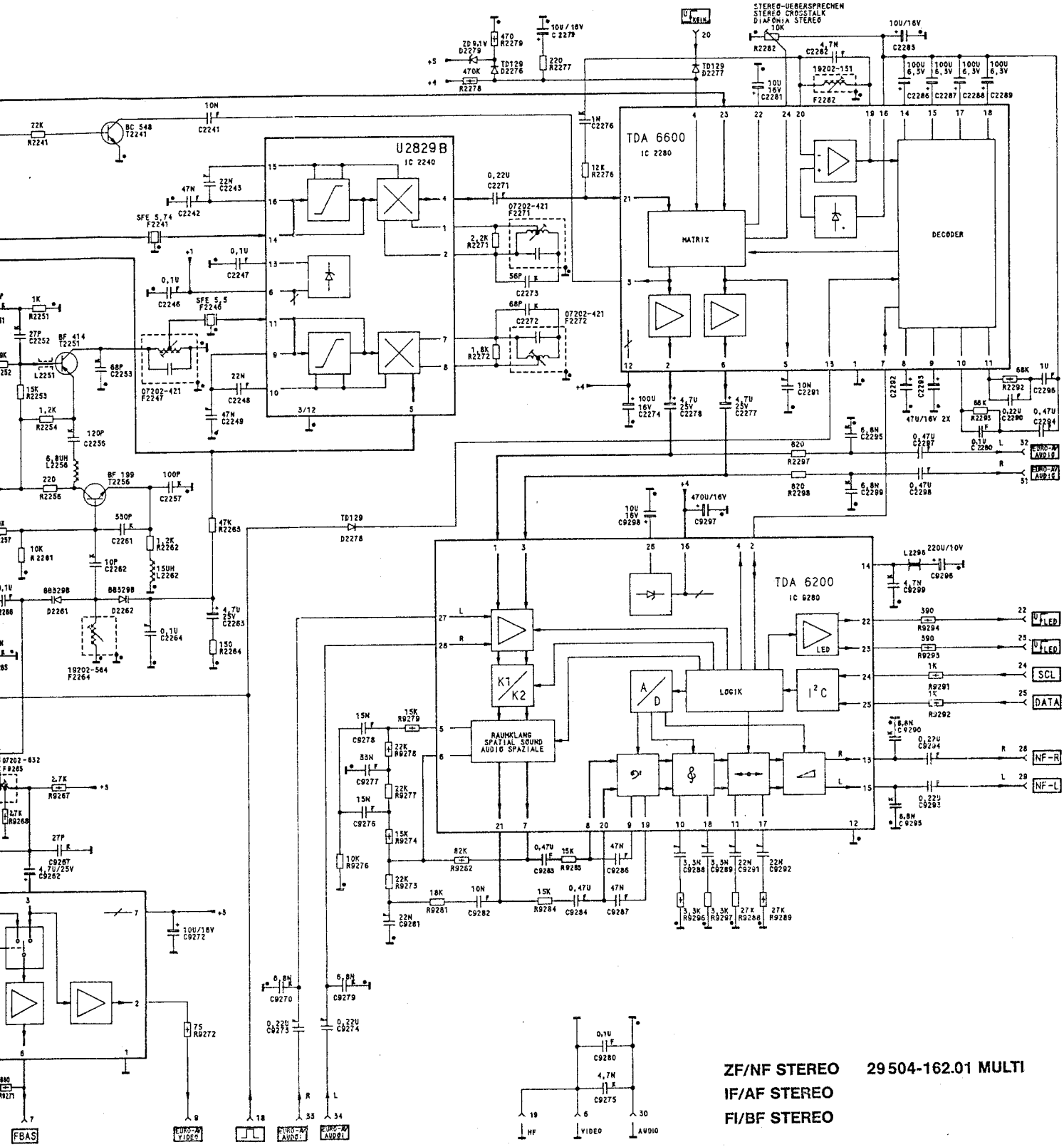

SDA 2216
IC2141
MOS
SPEICHER
MEMORY
MEMORIA
SDA3202
IC2161
SDA
SCL
BC847BR
CT2156
BC858BR
CT2151
CT2152
CT2153
BB329B
D2119
BA682
CD2124
ZPD5,6
D2147
ZPD24
D2148
4MHZ
Q2163
MP10A
MP10C
MP8
MP9
MP14
MP15
MP16
ZF
PLL



	NORM1	NORM2	NORM3	UHF	BD III
CCIR	0	0	0	-	-
FR I	1	0	0	0	0
FR III	1	0	0	0	1
FR IV/V	1	0	0	1	0
GB	0	1	0	-	-
G/R	1	1	0	-	-
US	0	-	1	-	-

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

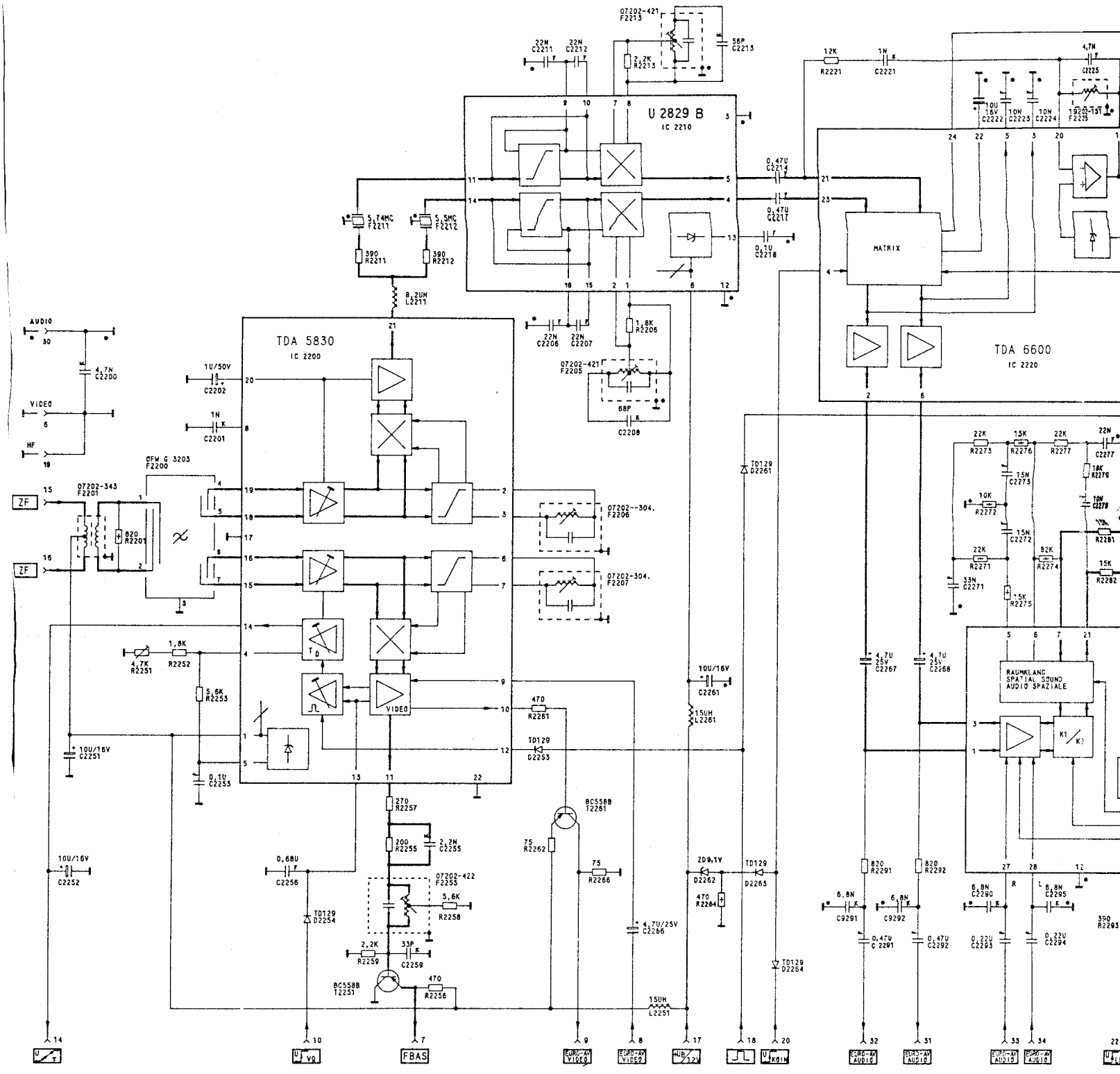

TDA 2148
IC 2220
TDA 2840
IC 2260
TDA 2450
IC 9215
U2829B
IC 2240
TEA 2014
IC 9270
HEF 4011
IC 9260
NORM
FBAS



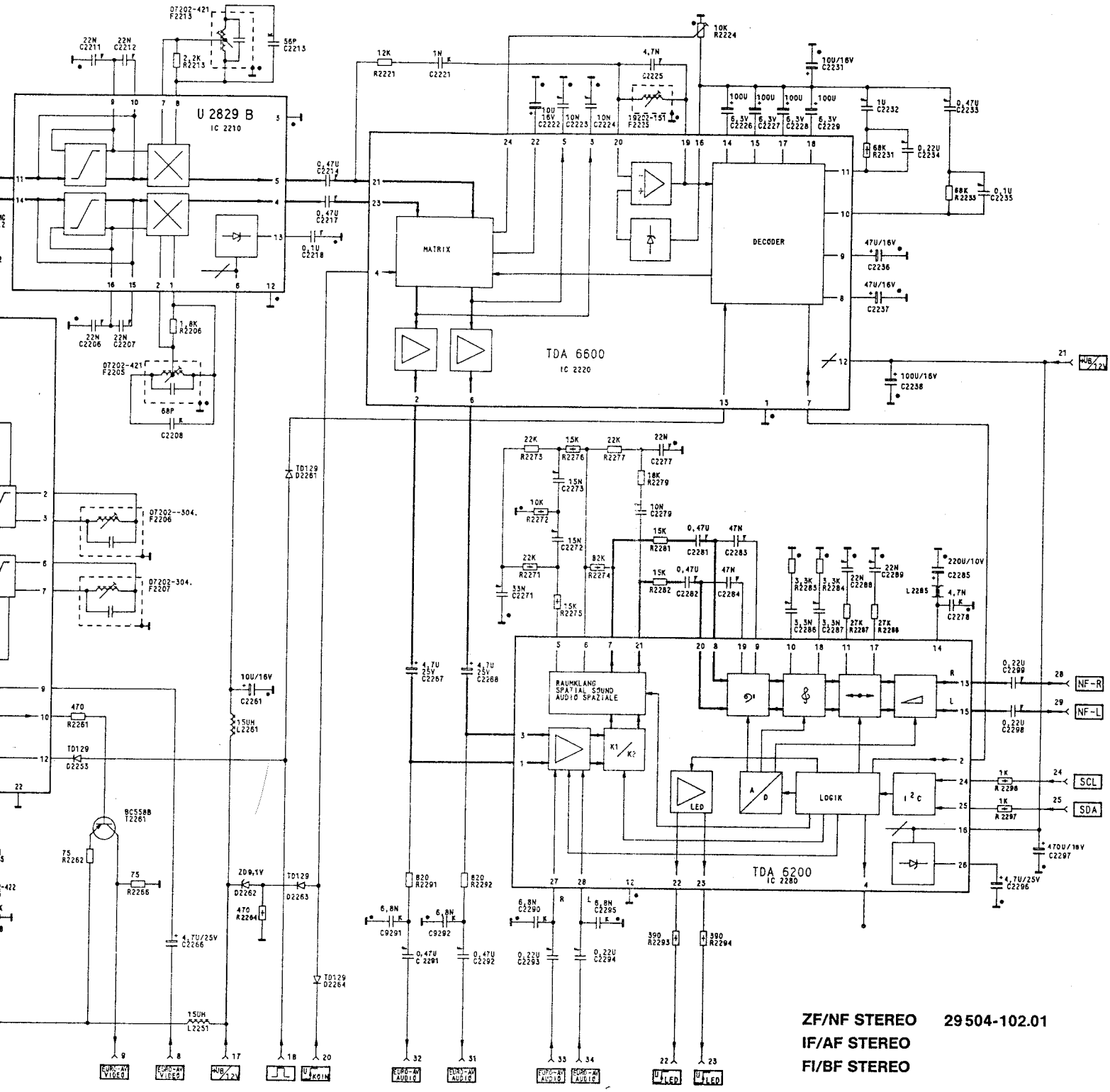
ZF/NF STEREO **29504-162.01 MULTI**

IF/AF STEREO

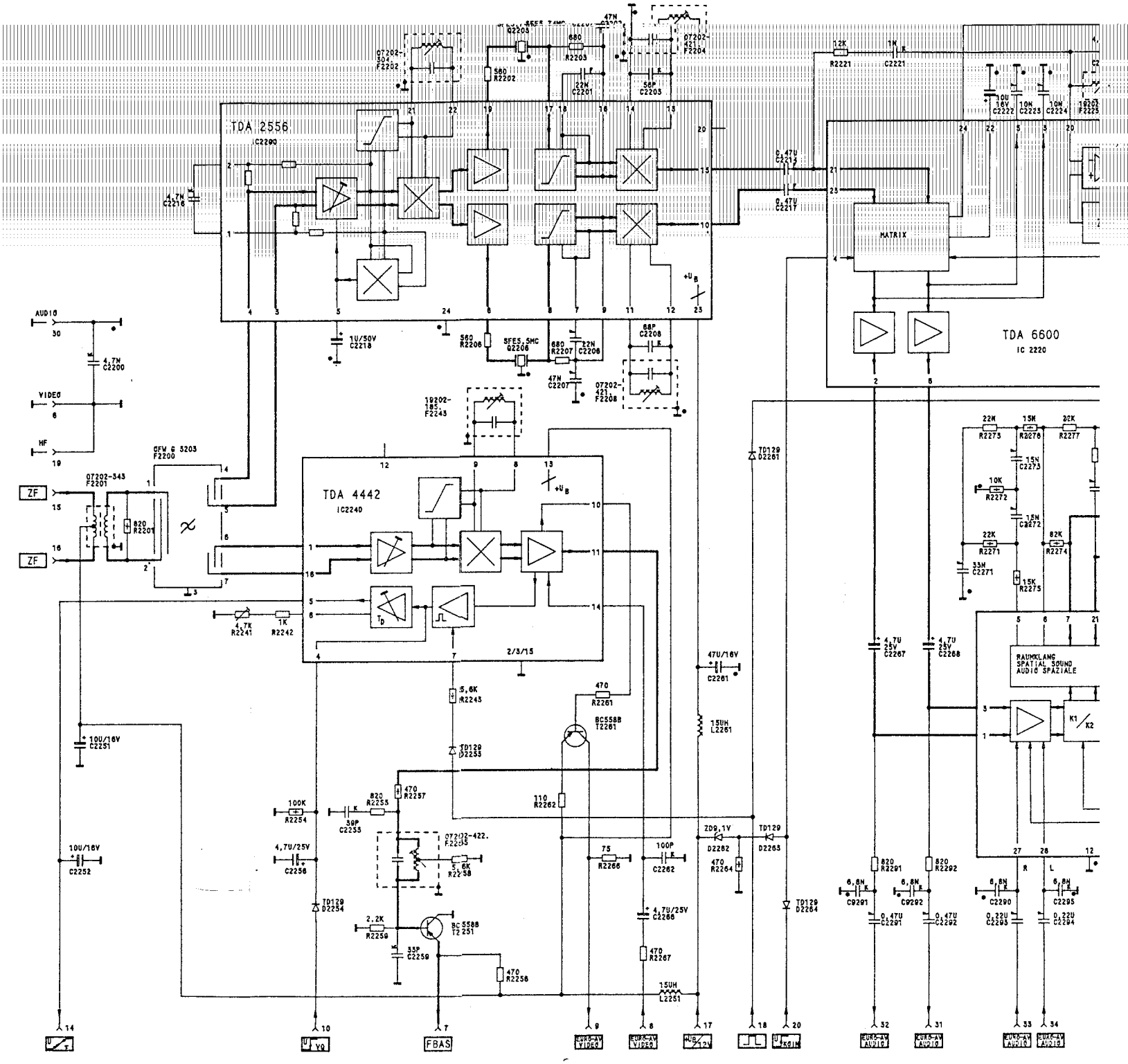
FI/BF STEREO



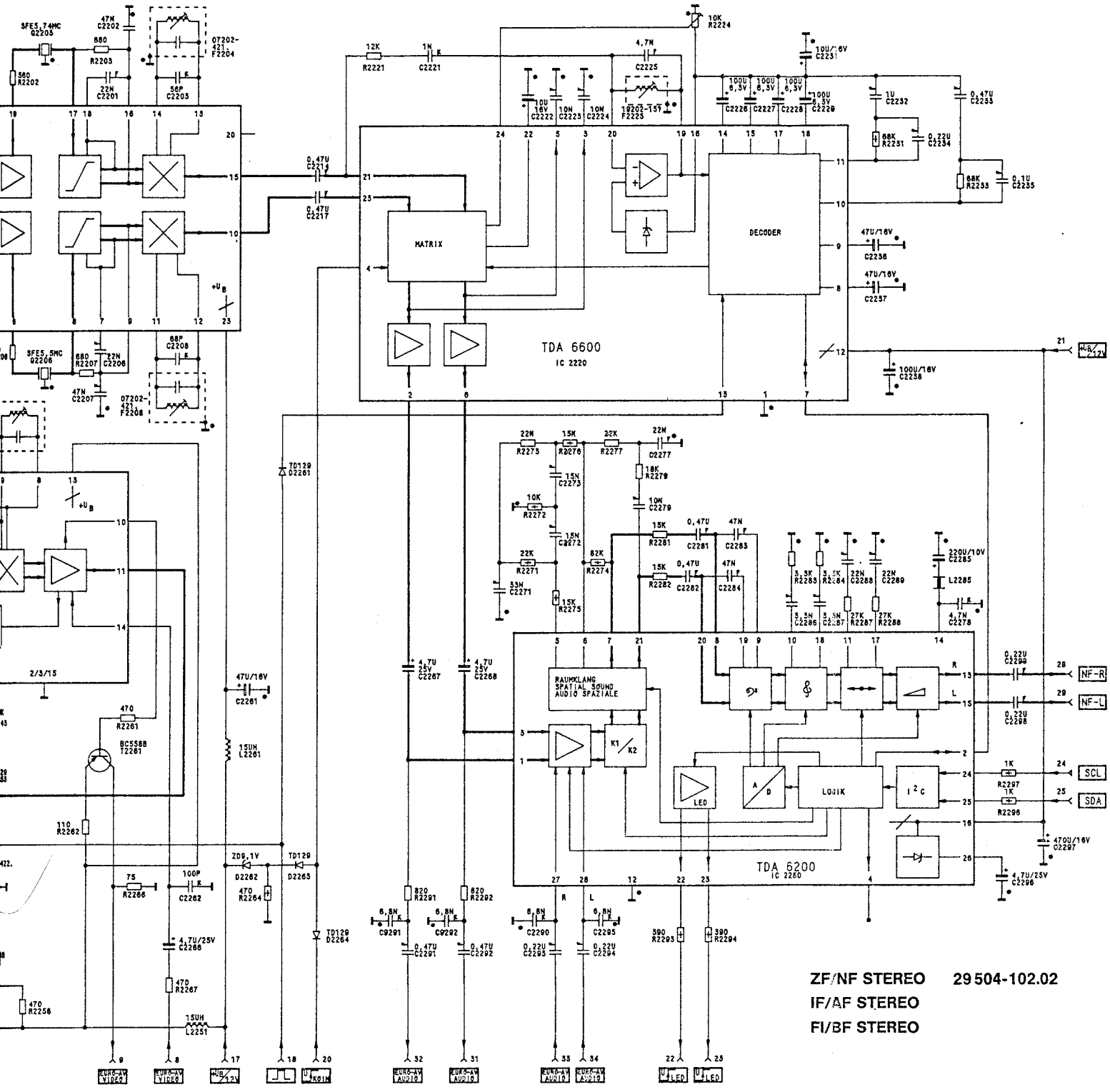
ein Anpassungsabgleich bei Austausch der Steckkarte notwendig
hen replacing the plug-in board, no alignment is necessary
on è necessaria nessuna taratura di adattamento dopo la
ostituzione di una scheda ad innesto



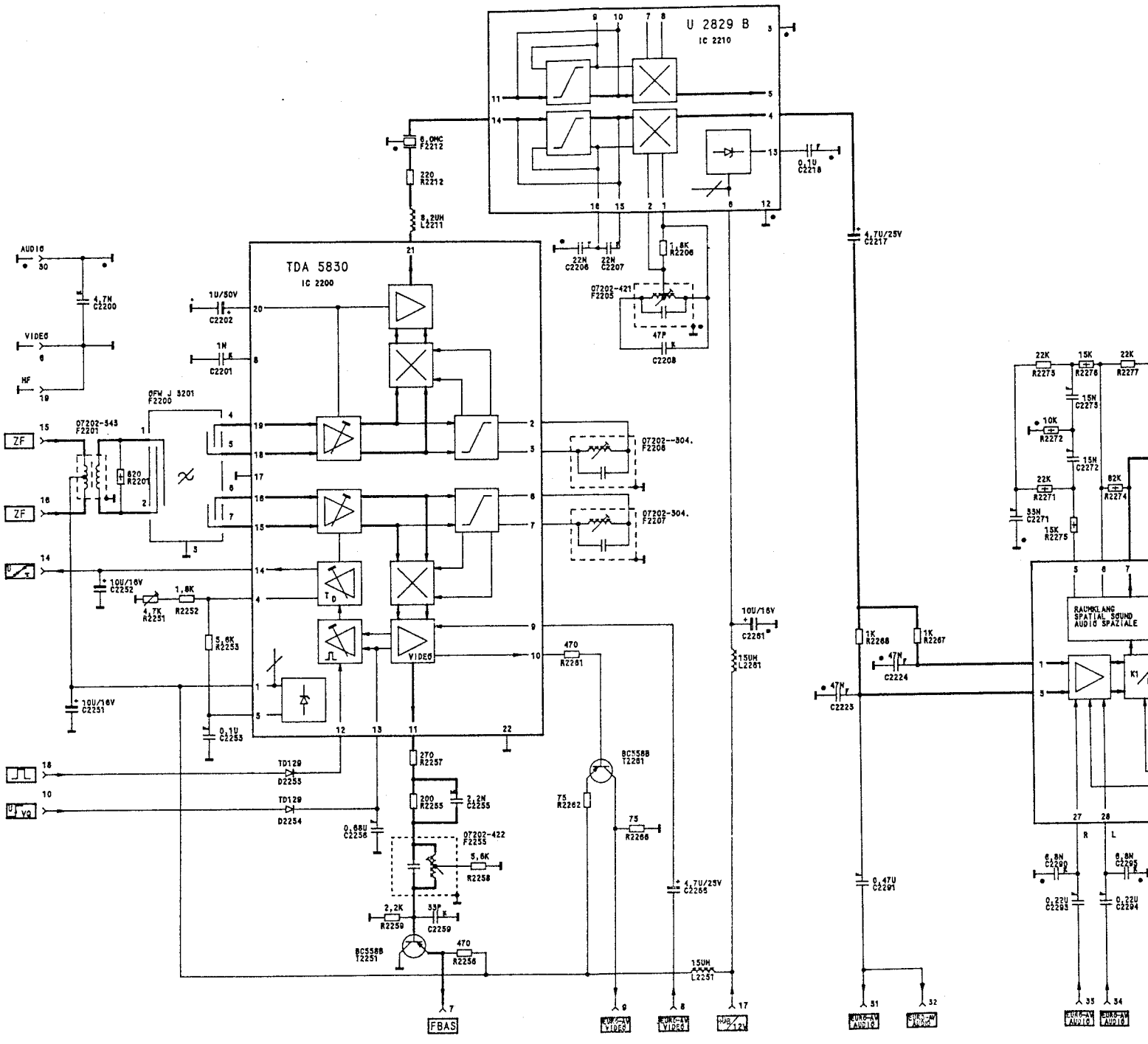
ZF/NF STEREO **29504-102.01**
IF/AF STEREO
FI/BF STEREO



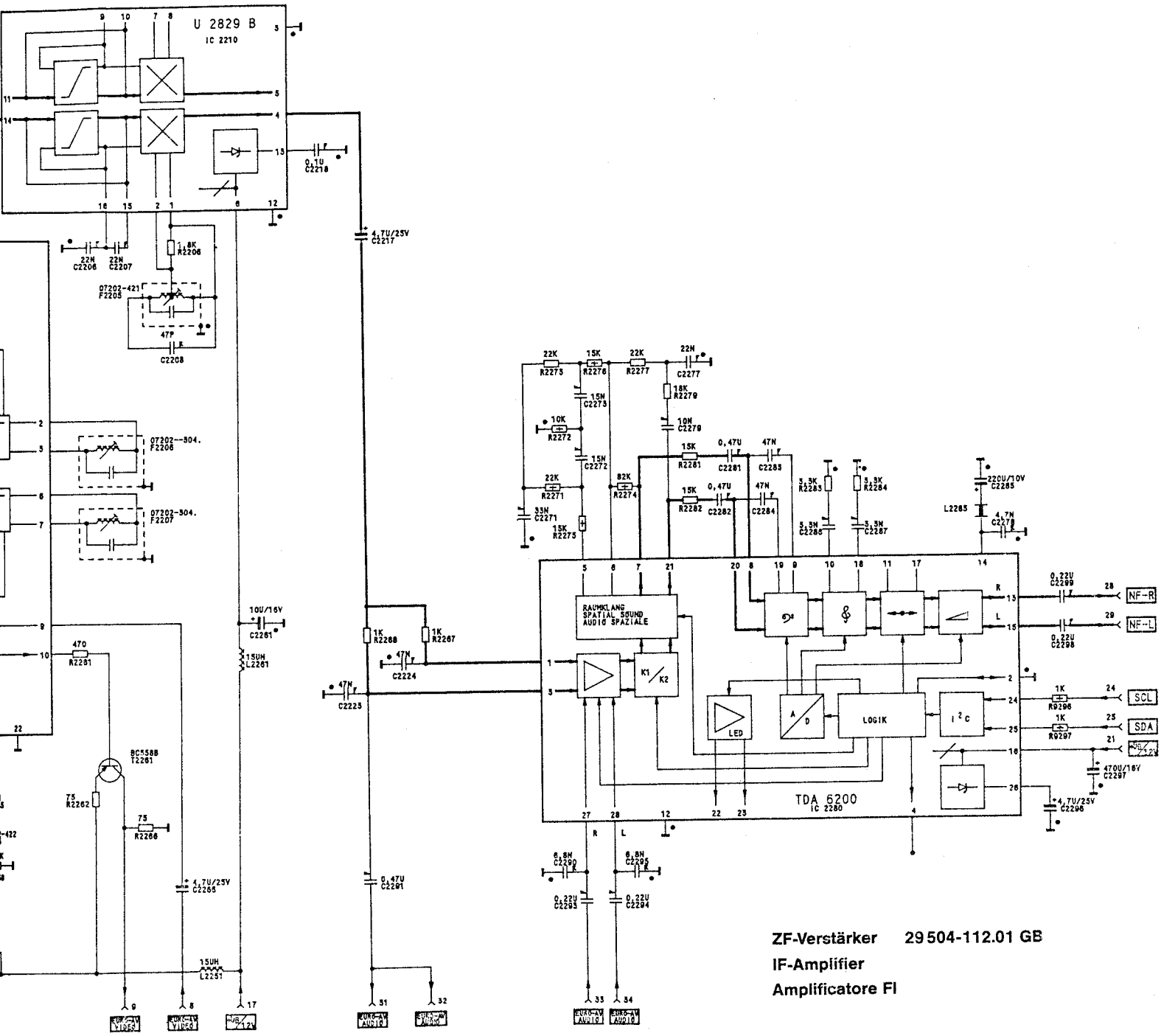
Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
When replacing the plug-in board, no alignment is necessary
Non è necessaria nessuna taratura di adattamento dopo la sostituzione di una scheda ad innesto



ZF/NF STEREO 29504-102.02
IF/AF STEREO
FI/BF STEREO



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



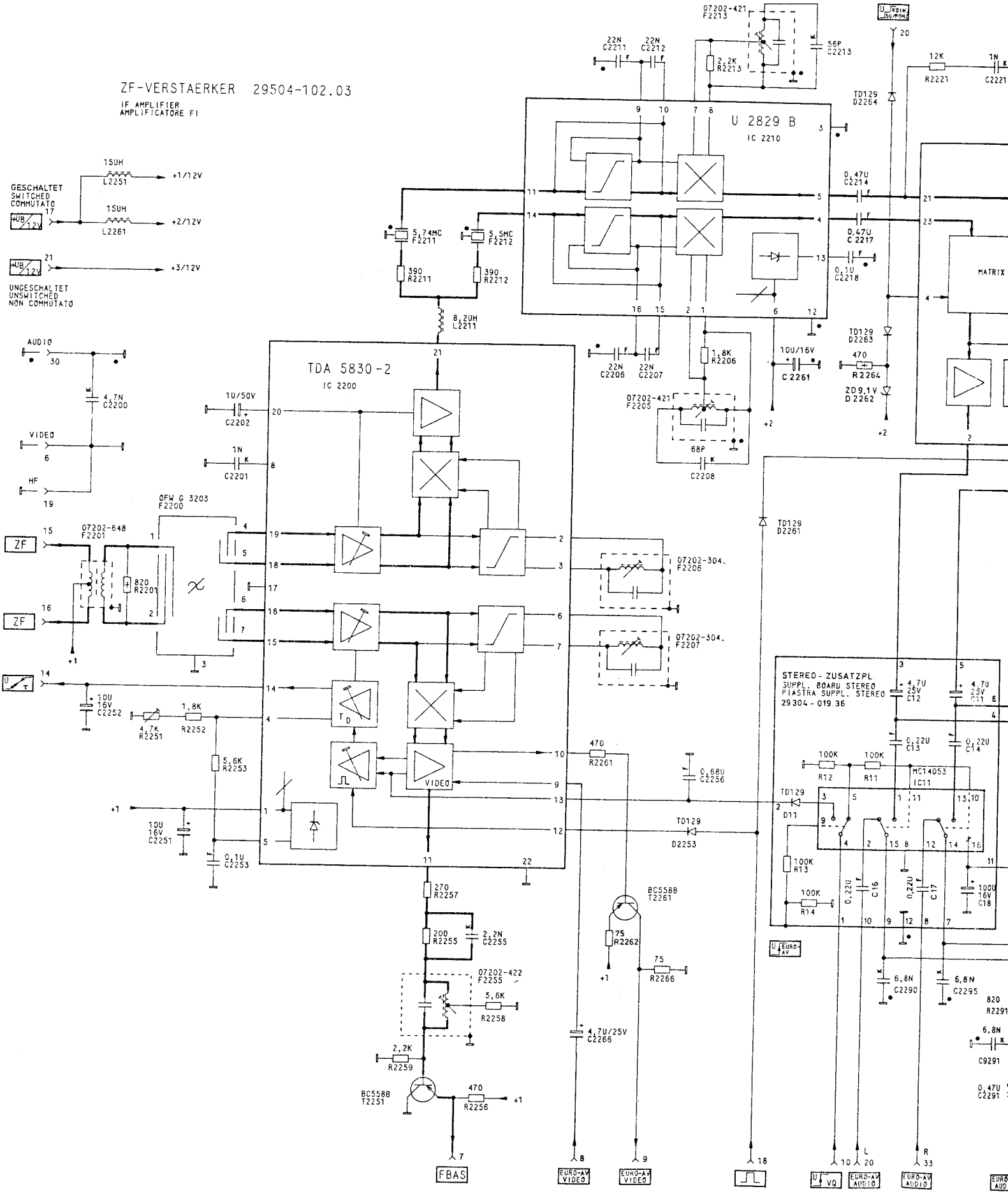
ZF-Verstärker 29 504-112.01 GB

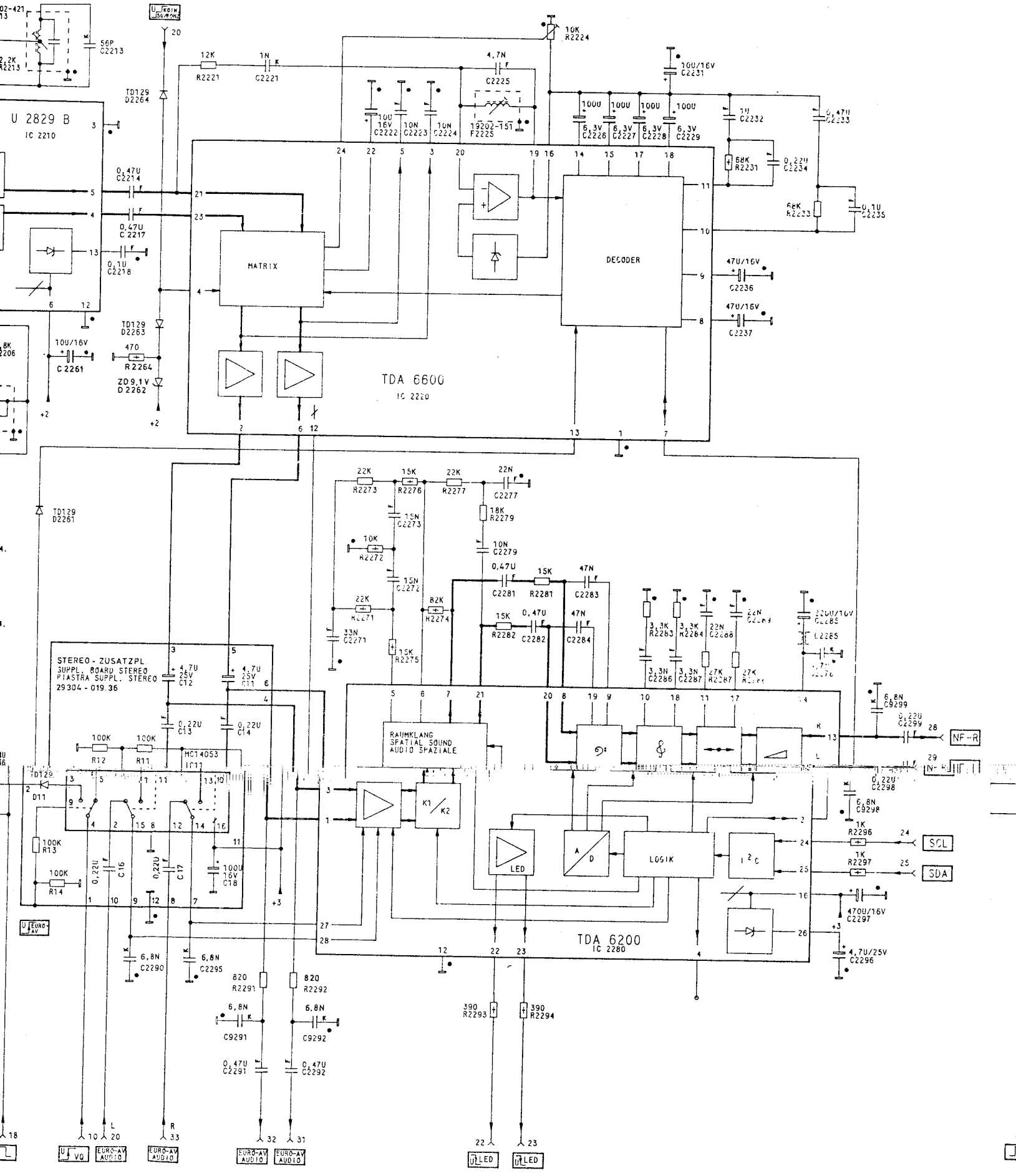
IF-Amplifier

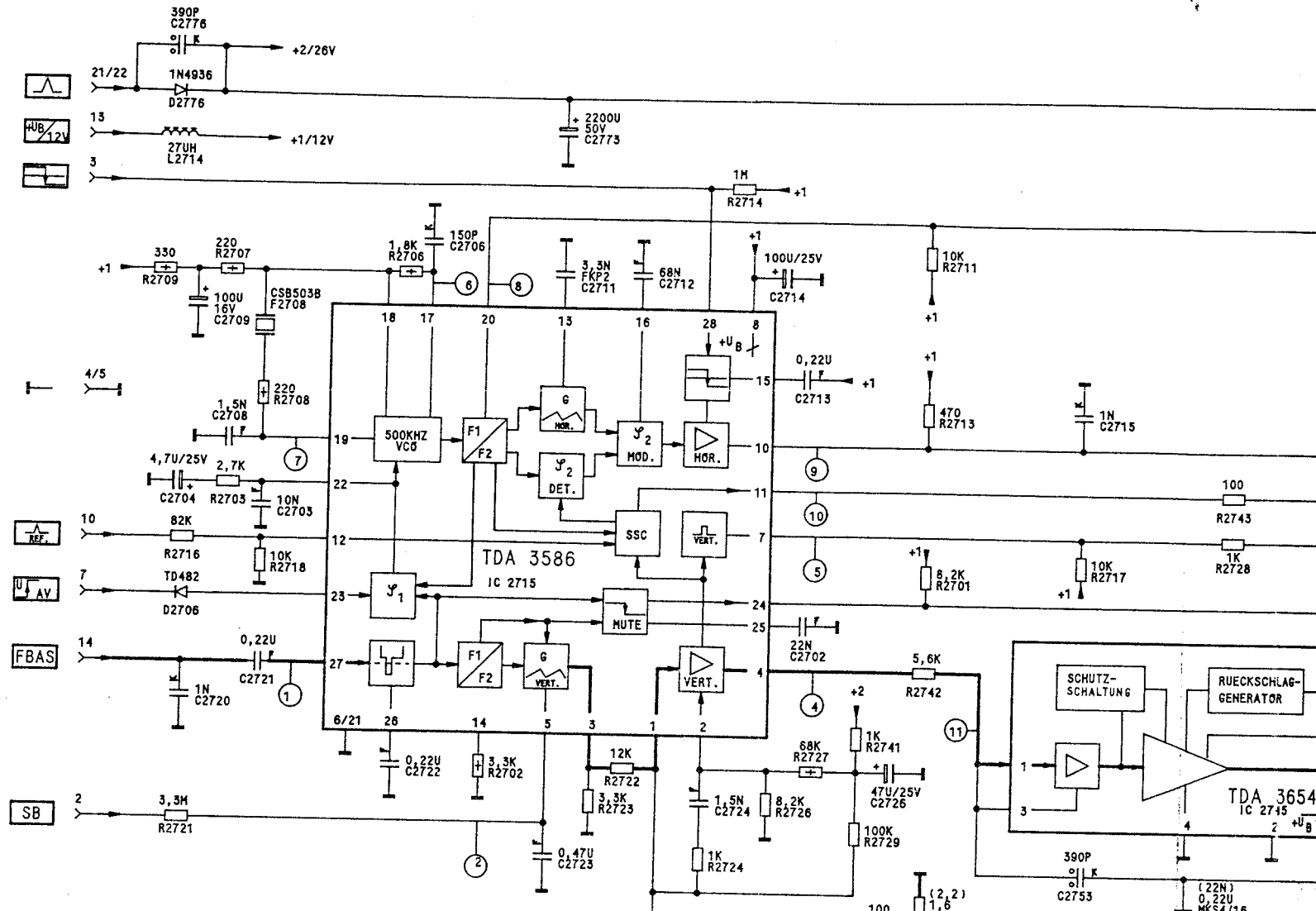
Amplificatore FI

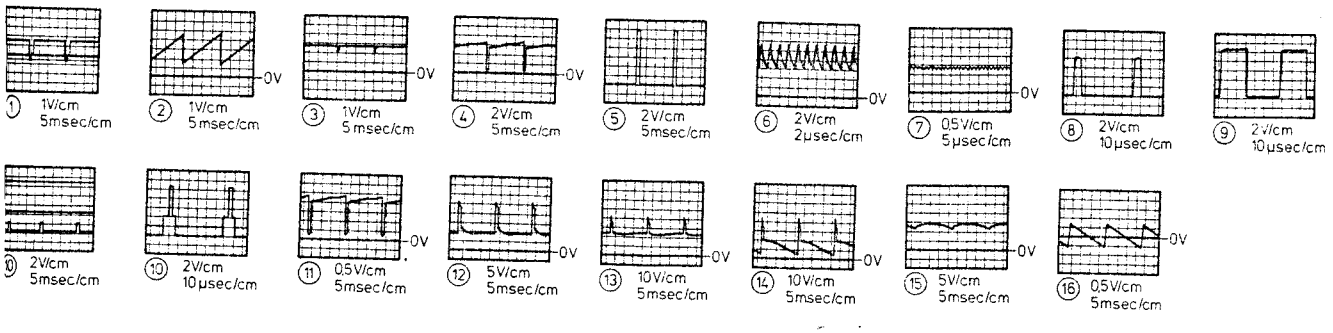
ZF-VERSTAERKER 29504-102.03

IF AMPLIFIER
AMPLIFICATORE FI

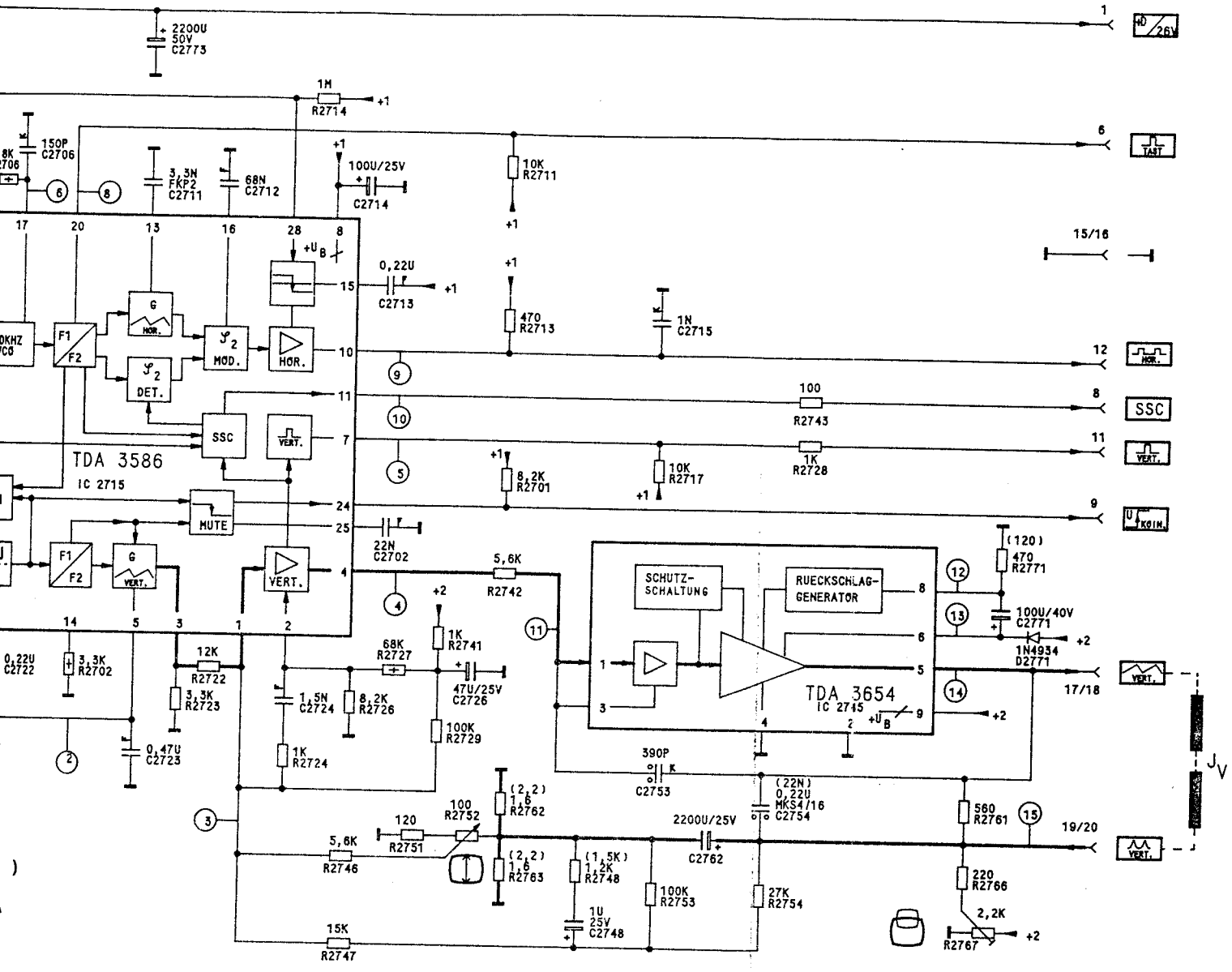


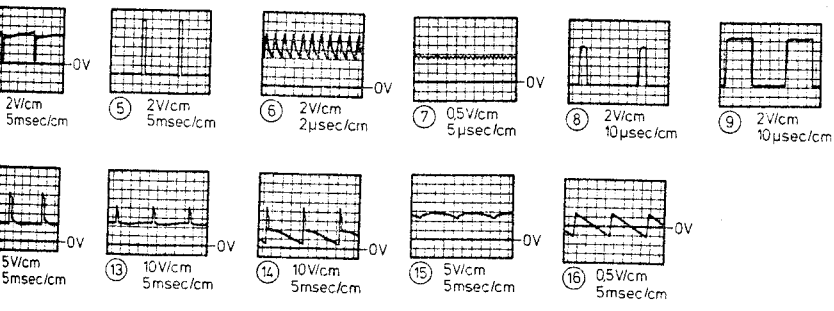

U 2829 B
IC 2210
MATRIX
DECODER
TDA 6600
IC 2220
TDA 6200
IC 2280
STEREO - ZUSATZPL
SUPPL. BOARD STEREO
PIASTRA SUPPL. STEREO
29304 - 019.36
RAUMKLANG
SPATIAL SOUND
AUDIO SPAZIALE
LOGIK
LED
A/D
I²C
K1/K2
HC14053
IC11
NF-R
NF-L
SCL
SDA
EURO-AV AUDIO
EURO-AV VQ
EURO-AV LED



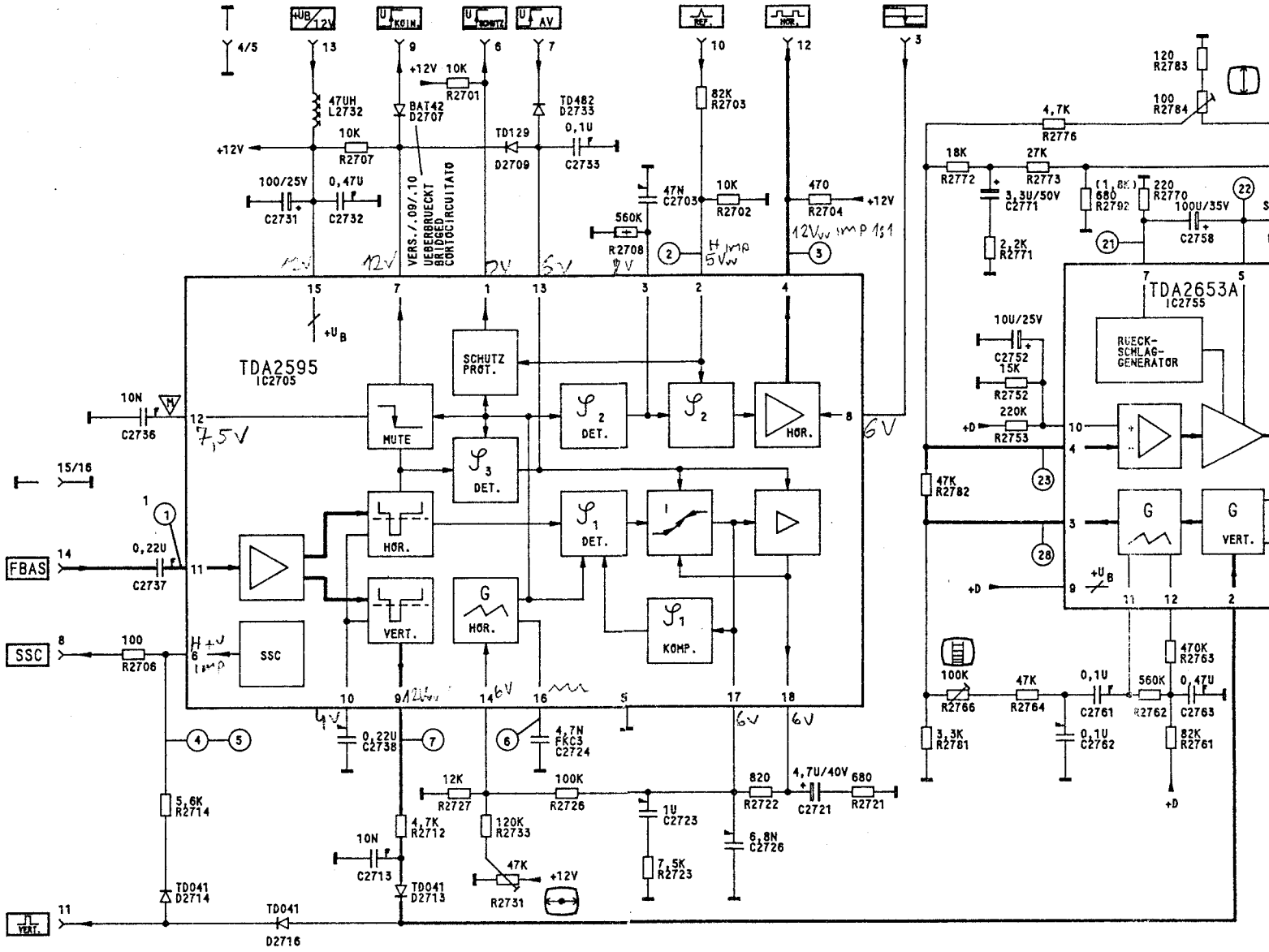


Kein Anpassungsabgle
When replacing the plu
Non è necessaria ness
sostituzione di una sch



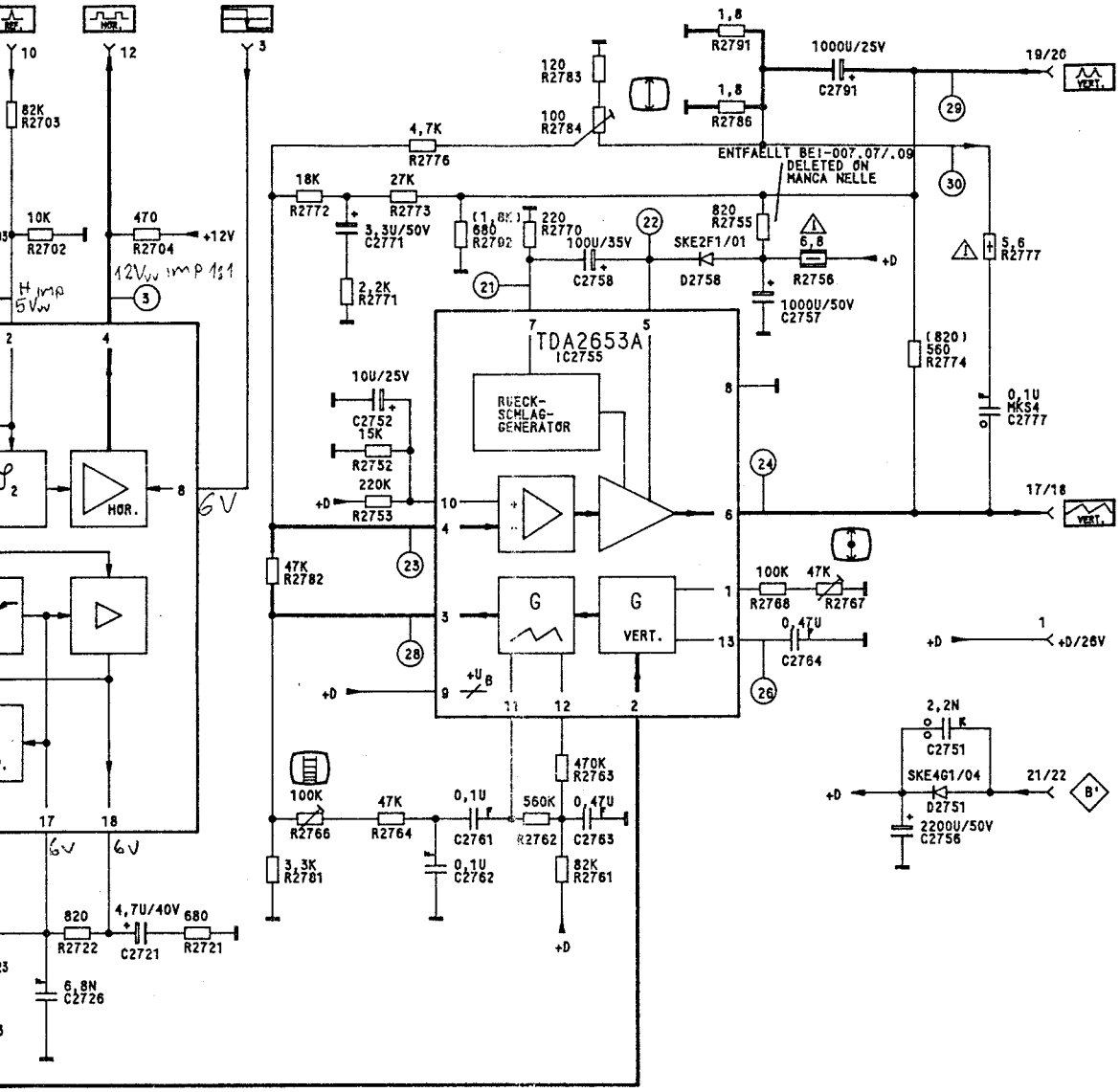


Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
When replacing the plug-in board, no alignment is necessary
Non è necessaria nessuna taratura di adattamento dopo la sostituzione di una scheda ad innesto

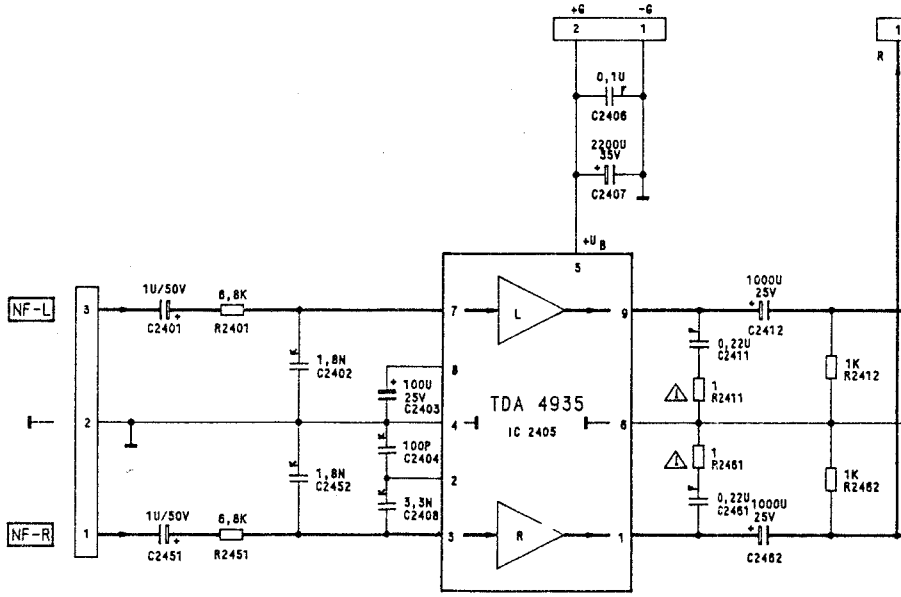


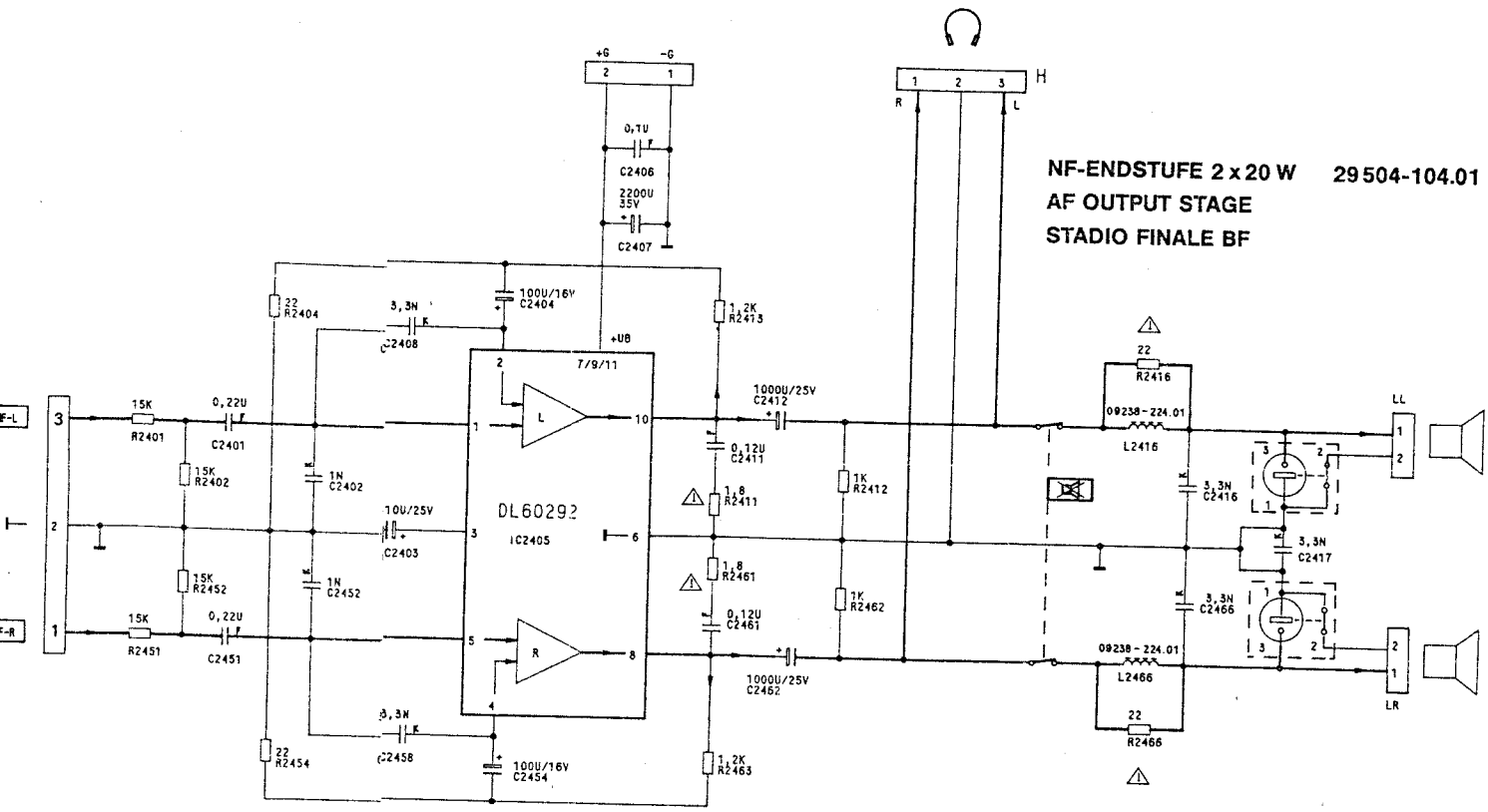
29504-007.07/09

ABLENKUNG	29504-007.10	WERTE IN ( )
DEFLECTION		VALUES IN
DEFLESSIONE		VALORI TRA



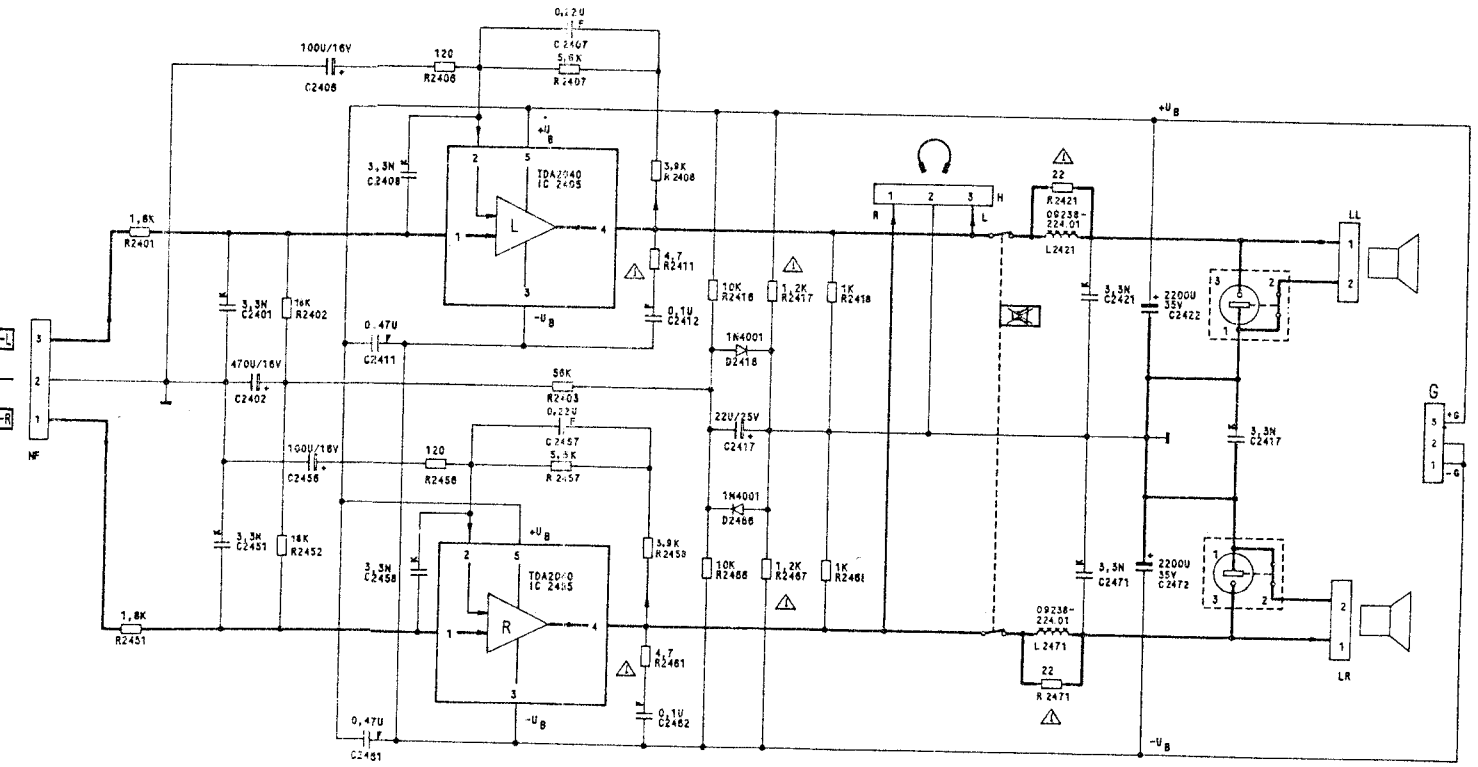
504-007.07/09
504-007.10 WERTE IN ( )
VALUES IN
VALORI TRA





NF-ENDSTUFE 2 x 20 W 29504-104.01
AF OUTPUT STAGE
STADIO FINALE BF

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



NF-ENDSTUFE 2 x 35 W 29504-104.11
AF OUTPUT STAGE
STADIO FINALE BF

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

Ersatzteilliste (Auszug) · List of Spare-Parts (extract) · Lista ricambi (estratto)
CUC 2600

Pos. No.	Fig. No.	Bestell-Nr./Part No. Réf./Nr. d'ordinazioni		Benennung	Description
				Steckkarter	Plug-in Circuit Boards
1		29504-101.01		Kabeltuner	Cable tuner
2		29504-102.01		ZF-Verstärker	IF-amplifier
oder					or:
2		29504-102.02		ZF-Verstärker	IF-amplifier
2		29504-162.01		ZF-Verstärker(Multi)	IF-amplifier(Multi)
4		29504-104.01		NF-Stereo	AF-stereo
oder					or:
4		29504-104.02		NF-Stereo	AF-stereo
5		29504-105.21		Fart/RGB	Colour-RGB
5		29504-165.01		Fart/RGB (Multi)	Colour-RGB (Multi)
7		*29504-007.10		Ablenkung	Deflection
7		*29504-107.05		Ablenkung	Deflection
				Mechanische Teile	Mechanical Parts
10		*29304-070.46		Bildronrplatte kpl.	CRT socket board compl.
10.1		*29303-754.97		Bildrohrfassung	Picture tube socket
12		29700-284.01		Bausteinhalter	Circuit board holder
13		29500-807.01		Koax-Buchsen-Abdeckung	Coaxial-socket cover
14		09621-113.02	2x	Sicherungshalter	Fuse holder
15		29303-153.12	2x	Montageclip für IC	Mounting clip for IC
16		29303-153.02		Montageclip für Trans.	Mounting clip for trans.
18		29303-119.03		Euro-AV-Buchse	Euro-AV-socket
19		29500-503.05		AV-Buchser-Abdeckung	AV-socket cover
20		29700-280.01		NF-Aufnahme	AF-holder
				Elektrische Teile	Electrical Parts
K 536		8324-800-040		Kaskade BG2087/642-1006	EHT-tripler
		72008-090.02		Fokusregler	Focus control
TP 501		09246-836.21			
TR 526		29201-019.05			
TR 651		29500-609.31			
L 336		8140-526-451			
L 337		8140-526-451			
L 355		8140-526-312			
L 356		09240-113.21			
L 503		29500-806.96			
L 506		8140-525-884			
L 514		8104-932-002			
L 521		29203-110.87			
L 526		09240-110.81			
L 562		09245-804.21			
L 571		29500-806.96			
L 573		09246-846.24			
L 631		29500-806.96			
L 633		8140-525-265			
L 634		09278-309.01			
L 672		8140-526-320			
Rel.652		29500-705.97			
IC 350		8305-338-442		TDA 8442 (MOS)	
IC 555		8305-338-145		TDA 8145	
IC 631		8305-302-459		TDA 4601	
IC 666		8305-205-765		7812/3%	
IC 676		8305-205-701		78 M 05	
T 111		8302-202-543		BC 543 B	
T 321		8302-200-559		BC 558 B	
T 503		8302-260-507		BU 505 A	
T 504		8302-200-637		BC 637	
T 634		8302-260-903		BU 903	
T 736		8302-411-759		GF 759	
T 737		8302-202-560		BC 558 C	
T 742		8302-222-422		BF 422	
T 746		8302-220-421		BF 421	
T 756		8302-411-759		GF 759	
T 762		8302-222-422		BF 422	
T 766		8302-220-421		BF 421	
T 776		8302-411-759		GF 759	
T 782		8302-222-422		BF 422	
T 786		8302-220-421		BF 421	

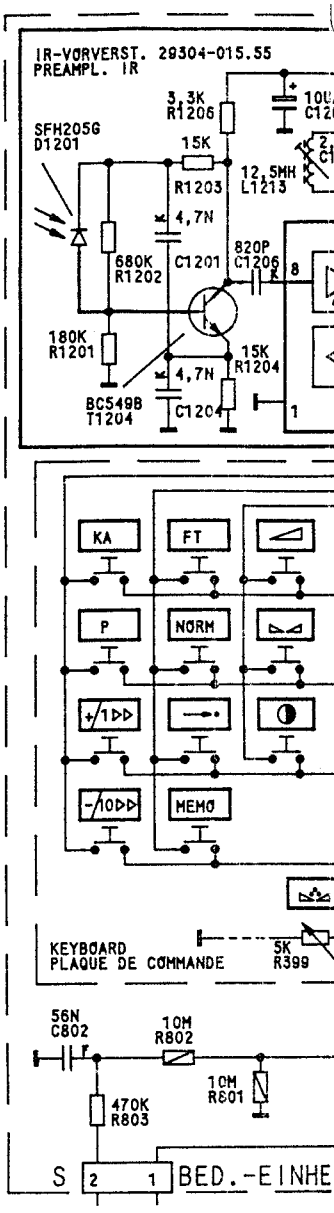
Pos. No.	Fig. No.	Bestell-Nr./Part No. Réf./Nr. d'ordinazioni	Benennung Description Désignation Denominazione
D 321		8309-214-114	TD 129
D 331		8309-715-008	ZPD 5,6
D 333		8309-201-033	BA 157
D 351		8309-214-003	TD 041
D 352		8309-707-107	ZPD 12
D 504		8309-214-114	TD 129
D 513		8309-707-110	ZPD 6,8
D 529		8309-204-268	BY 268
D 531		8309-215-020	1N 4004
D 534		8309-215-020	1N 4004
D 554		8309-215-050	1N 4148
D 571		8309-204-228	BY 228
D 572		8309-210-144	SKE 4 G 2/06
D 616		8309-215-013	1N 4007
D 621		8309-560-384	SKB 380/C 1500 L 5 B
D 633		8309-517-033	BYW 32
D 634		8309-215-013	1N 4007
D 635		8309-215-013	1N 4007
D 647		8309-517-033	BYW 32
D 648		8309-517-033	BYW 32
D 652		8309-214-018	TD 190
D 653		8309-214-018	TD 190
D 656		8309-517-076	BYW 76
D 661		8309-517-072	BYW 72
D 671		8309-517-072	BYW 72
D 681		8309-712-822	MR 824-400
D 708		8309-707-109	ZPD 4,7
D 741		8309-215-050	1N 4148
D 743		8309-215-050	1N 4148
D 746		8309-214-018	TD 190
D 761		8309-215-050	1N 4148
D 763		8309-215-050	1N 4148
D 766		8309-214-018	TD 190
D 781		8309-215-050	1N 4148
D 783		8309-215-050	1N 4148
D 786		8309-214-018	TD 190
C 504		8563-720-206	0,068µF/100 V
C 511		8515-911-711	0,0115µF/1600 V
C 512		8515-911-424	0,027µF/400 V
C 513		8523-631-218	1800pF/400 V
C 514		8515-911-091	150pF/1600 V
C 516		8525-040-819	0,33µF/250 V
C 517		8525-040-819	0,33µF/250 V
C 521		8515-722-231	0,26µF/160 V
C 522		8515-722-231	0,26µF/160 V
C 528		8563-731-611	0,01µF/1500 V
C 529		8650-090-477	270pF/2 KV
C 530		8660-057-219	220pF/400 V
C 537		8563-720-206	0,068µF/100 V
C 573		8515-721-253	0,82µF/250 V
C 611		8660-097-241	3300pF/400 V
C 613		8660-097-241	3300pF/400 V
C 621		8650-090-510	1000pF/ 1 KV
C 622		8650-090-510	1000pF/1 KV
C 623		8650-090-510	1000pF/1 KV
C 624		8650-090-510	1000pF/1 KV
C 626		8443-306-055	220µF/385 V
C 634		8515-911-091	2200pF/2000 V
C 644		8525-033-487	8200pF/400 V
C 646		8525-033-487	8200pF/400 V
C 648		8563-731-409	0,047µF/400 V
C 656		8650-090-477	270pF/2 KV
C 657		8451-997-090	100µF/250 V
C 661		8650-090-477	270pF/2 KV
C 668		8415-166-147	1000µF/25 V
C 671		8650-090-477	270pF/2 KV
C 681		8650-090-477	270pF/2 KV
C 703		8515-722-467	0,022µF/400 V
C 722		8563-731-611	0,01µF/1500 V
C 727		8650-131-012	150pF/2 KV
R 337		8705-269-301	15 KΩ
R 501		8700-014-015	3,9 Ω
R 502		8705-328-993	0,51 Ω
R 504		8705-269-033	22 Ω
R 513		8700-249-083	2,7 KΩ MF
R 523		8705-221-271	820 Ω
R 524		8700-119-017	4,7 Ω
R 525		8735-003-033	0,33 Ω
R 526		8311-201-073	PTC 2 G P 2390-J 146

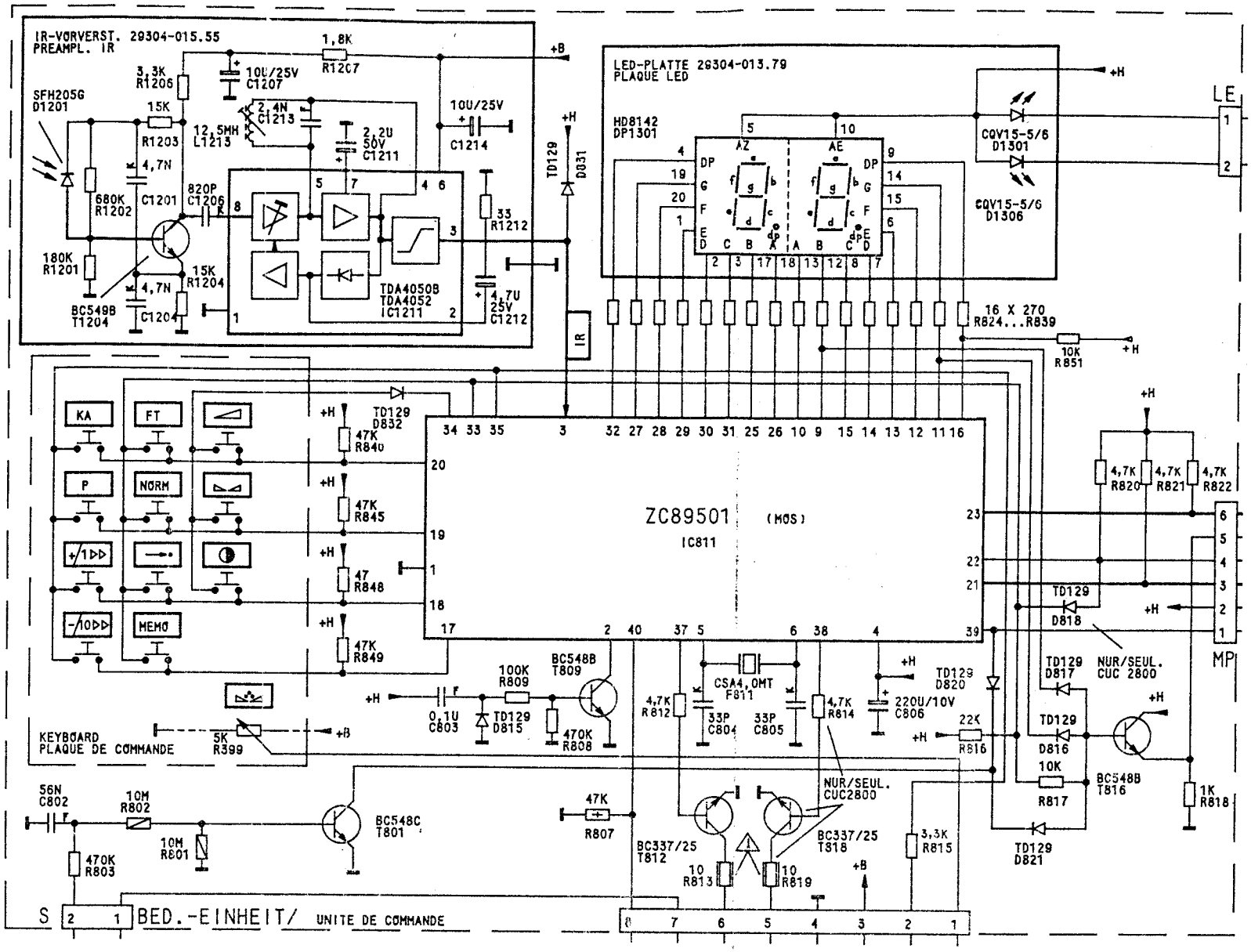
Pos. No.	Fig. No.	Bestell-Nr./Part No. Réf./Nr. d'ordinazioni	Ben Desc Dési Den
R 527		8730-179-221	7W/6
R 528		8705-221-225	10 Ω
R 531		8700-201-081	2,2
R 533		8700-000-073	1 KΩ
R 550		8765-098-001	1 Ω
R 554		8790-047-135	1 KΩ
R 561		8790-047-164	100
R 571		8701-230-817	4,7
R 616		8705-321-033	2,7
R 617		8311-201-462	PTC
R 621		8730-199-016	11W/
R 623		8311-400-125	VDR
R 624		8718-250-158	3,6
R 626		8705-369-325	150
R 627		8718-250-014	4,7
R 631		8766-326-996	0,68
R 646		8700-161-131	270
R 647		8796-101-142	2,5
R 648		8750-210-049	7W/1
R 656		8705-329-315	56 K
R 661		8735-003-022	0,22
R 671		8735-003-022	0,22
R 681		8735-002-022	2W/0
R 684		8705-369-271	820
R 686		8730-271-215	7W/3
R 704		8705-269-209	2,2
R 721		8705-226-281	2,2
R 724		8799-215-674	470
R 731		8790-047-135	1 KΩ
R 734		8705-329-113	47 K
R 741		8705-369-103	18 K
R 742		8700-201-069	680
R 754		8705-329-113	47 K
R 761		8705-369-103	18 K
R 762		8700-201-069	680
R 771		8790-047-135	1 KΩ
R 774		8705-329-113	47 K
R 781		8705-369-103	18 K
R 782		8700-201-069	680
Si 644		8315-618-002	1,25

pare-Parts (extract) · Lista ricambi (estratto)

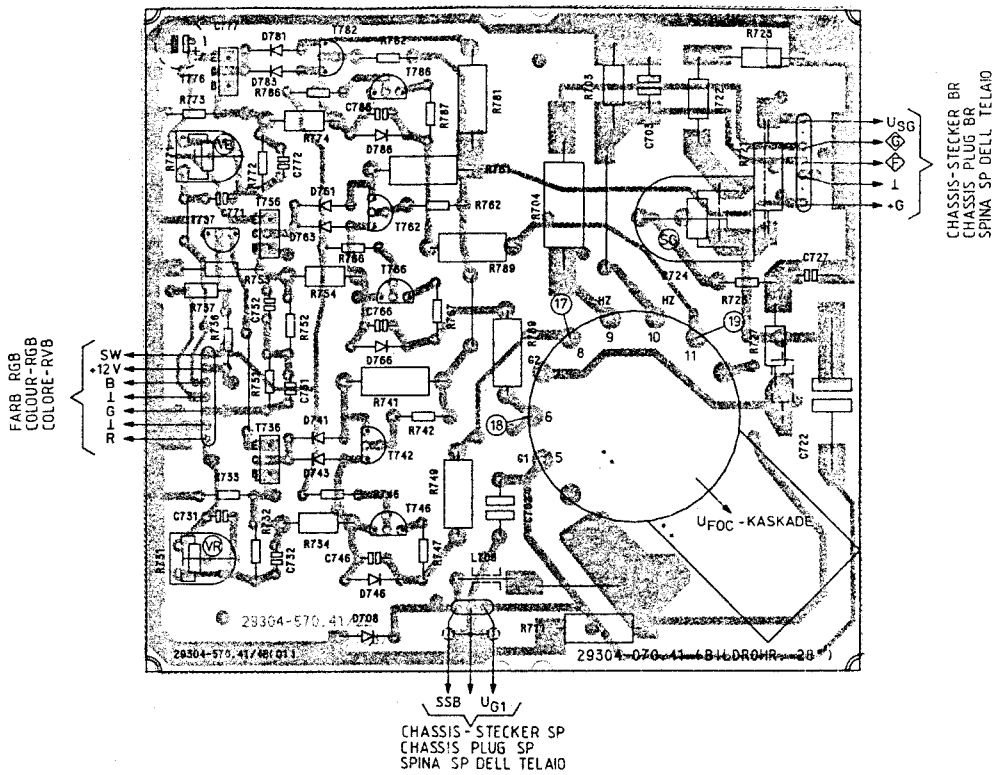
Pos. No.	Fig. No.	Bestell-Nr./Part No. Réf./Nr. d'ordinazioni	Benennung Description Désignation Denominazione
D 321		8309-214-114	TD 129
D 331		8309-715-008	ZPD 5,6
D 333		8309-201-033	BA 157
D 351		8309-214-093	TD 041
D 352		8309-707-107	ZPD 12
D 504		8309-214-114	TD 129
D 513		8309-707-110	ZPD 6,8
D 529		8309-204-268	BY 268
D 531		8309-215-020	1N 4004
D 534		8309-215-020	1N 4004
D 554		8309-215-050	1N 4148
D 571		8309-204-228	BY 228
D 572		8309-210-144	SKE 4 G 2/06
D 616		8309-215-013	1N 4007
D 621		8309-560-384	SKB 380/C 1500 L 5 B
D 633		8309-517-033	BYW 32
D 634		8309-215-013	1N 4007
D 635		8309-215-013	1N 4007
D 647		8309-517-033	BYW 32
D 648		8309-517-033	BYW 32
D 652		8309-214-018	TD 190
D 653		8309-214-018	TD 190
D 656		8309-517-076	BYW 76
D 661		8309-517-072	BYW 72
D 671		8309-517-072	BYW 72
D 681		8309-712-822	MR 824-400
D 708		8309-707-109	ZPD 4,7
D 741		8309-215-050	1N 4148
D 743		8309-215-050	1N 4148
D 746		8309-214-018	TD 190
D 761		8309-215-050	1N 4148
D 763		8309-215-050	1N 4148
D 766		8309-214-018	TD 190
D 781		8309-215-050	1N 4148
D 783		8309-215-050	1N 4148
D 786		8309-214-018	TD 190
C 504		8563-720-206	0,068µF/100 V
C 511		8515-911-711	0,0115µF/1600 V
C 512		8515-911-424	0,027µF/400 V
C 513		8523-631-218	1800pF/400 V
C 514		8515-911-001	150pF/1600 V
C 516		8525-040-819	0,33µF/250 V
C 517		8525-040-819	0,33µF/250 V
C 521		8515-722-231	0,26µF/160 V
C 522		8515-722-231	0,26µF/160 V
C 528		8563-731-611	0,01µF/1500 V
C 529		8650-090-477	270pF/2 KV
C 530		8660-097-219	220pF/400 V
C 537		8563-720-206	0,068µF/100 V
C 573		8515-721-253	0,82µF/250 V
C 611		8660-097-241	3300pF/400 V
C 613		8660-097-241	3300pF/400 V
C 621		8650-090-510	1000pF/ 1 KV
C 622		8650-090-510	1000pF/1 KV
C 623		8650-090-510	1000pF/1 KV
C 624		8650-090-510	1000pF/1 KV
C 626		8443-306-055	220µF/385 V
C 634		8515-911-091	2200pF/2000 V
C 644		8525-033-487	8200pF/400 V
C 646		8525-033-487	8200pF/400 V
C 648		8563-731-409	0,047µF/400 V
C 656		8650-090-477	270pF/2 KV
C 657		8451-997-090	100µF/250 V
C 661		8650-090-477	270pF/2 KV
C 668		8415-166-147	1000µF/25 V
C 671		8650-090-477	270pF/2 KV
C 681		8650-090-477	270pF/2 KV
C 703		8515-722-467	0,022µF/400 V
C 722		8563-731-611	0,01µF/1500 V
C 727		8650-131-012	150pF/2 KV
R 337		8705-269-301	15 KΩ
R 501		8700-014-015	3,9 Ω
R 502		8705-328-993	0,51 Ω
R 504		8705-269-033	22 Ω
R 513		8700-249-083	2,7 KΩ NB
R 523		8705-221-271	820 Ω
R 524		8700-119-017	4,7 Ω
R 525		8735-003-033	0,33 Ω
R 526		8311-201-073	PTC 2 G P 2390-J 146

Pos. No.	Fig. No.	Bestell-Nr./Part No. Réf./Nr. d'ordinazioni	Benennung Description Désignation Denominazione
R 527		8730-179-221	7W/6,8 Ω
R 528		8705-221-225	10 Ω
R 531		8700-201-081	2,2 KΩ NB
R 533		8700-000-073	1 KΩ
R 550		8765-098-001	1 Ω
R 554		8790-047-135	1 KΩ
R 561		8790-047-164	100 KΩ
R 571		8701-230-817	4,7 Ω
R 616		8705-321-033	2,7 KΩ
R 617		8311-201-462	PTC 1 G Q 63100-P 2462-J 29
R 621		8730-199-016	11W/4,3 Ω
R 623		8311-400-125	VDR V2A 275
R 624		8716-250-158	3,6 MΩ VDE
R 626		8705-369-325	150 KΩ
R 627		8716-250-014	4,7 MΩ VDE
R 631		8766-326-996	0,68 Ω
R 646		8700-161-131	270 KΩ
R 647		8796-101-142	2,5 KΩ
R 648		8750-210-049	7W/100 Ω
R 656		8705-329-315	56 KΩ
R 661		8735-003-022	0,22 Ω
R 671		8735-003-022	0,22 Ω
R 681		8735-002-022	2W/0,22 Ω
R 684		8705-369-271	820 Ω
R 686		8730-271-215	7W/3,9 Ω
R 704		8705-269-209	2,2 Ω
R 721		8705-226-281	2,2 KΩ
R 724		8797-215-674	470 KΩ
R 731		8790-047-135	1 KΩ
R 734		8705-329-113	47 KΩ
R 741		8705-369-103	18 KΩ
R 742		8700-201-069	680 Ω NB
R 754		8705-329-113	47 KΩ
R 761		8705-369-103	18 KΩ
R 762		8700-201-069	680 Ω NB
R 771		8790-047-135	1 KΩ
R 774		8705-329-113	47 KΩ
R 781		8705-369-103	18 KΩ
R 782		8700-201-069	680 Ω NB
Si 644		8315-618-002	1,25 A

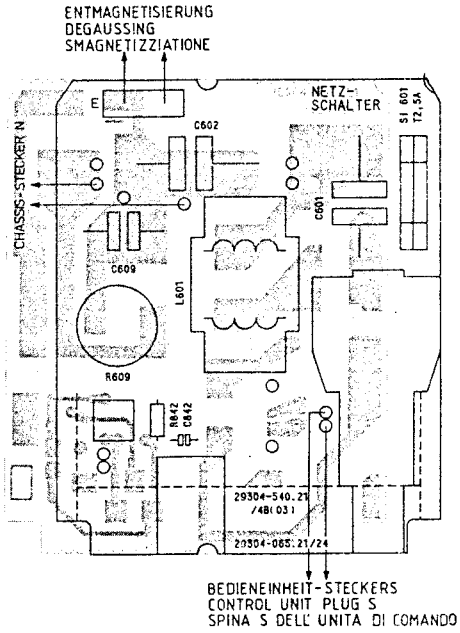



IR-VORVERST. 29304-015.55
PREAMPL. IR
SFH205G D1201
3,3K R1206
15K R1203
680K R1202
180K R1201
4,7N C1201
4,7N C1204
BC549B T1204
15K R1204
820P C1206
12,5MH L1213
2,4N C1213
2,2U 50V C1211
10U/25V C1207
1,8K R1207
10U/25V C1214
33 R1212
4,7U 25V C1212
TDA4050B TDA4052 IC1211
TD129 D831
+B
IR
LED-PLATTE 29304-013.79
PLAQUE LED
HD8142 DP1301
CQV15-5/6 D1301
CQV15-5/6 D1306
LE
16 X 270 R824...R839
10K R851
+H
KA
FT
P
NORM
MEMO
TD129 D832
47K R840
47K R845
47 R848
47K R849
ZC89501 (MOS)
IC811
4,7K R820
4,7K R821
4,7K R822
MP
TD129 D818
TD129 D817
NUR/SEUL. CUC 2800
TD129 D816
10K R817
BC548B T816
1K R818
TD129 D821
100K R809
BC548B T809
0,1U C803
TD129 D815
470K R808
CSA4,0MT F811
33P C804
33P C805
4,7K R812
4,7K R814
TD129 D820
220U/10V C806
22K R816
KEYBOARD
PLAQUE DE COMMANDE
5K R399
56N C802
10M R802
10M R801
470K R803
BC548C T801
47K R807
BC337/25 T812
BC337/25 T818
10 R813
10 R819
3,3K R815
S
BED.-EINHEIT/ UNITE DE COMMANDE

BILDROHRPLATTE
CRT BASE
PIASTRA CINESC.



NETZSCHALTERPLATTE
MAINS SWITCH BOARD
PIASTRA INTERR. DI RETE



ABLENKUNG/DEFLECTION/DEFLESSIONE
CARD RGB/COLOUR-RGB/COLORE-RVB
VIDEOTEXT/TELETEXT/TELEVIDEO
VERSTÄRKER/IF AMPLI/AMPLI IF
TUNER/TV/TUNER/TV/SINTONIA TV
LED- PLATTE
LED- BOARD
PIASTRA LED
BEDIENEINHEIT
CONTROL UNIT
UNITA DI COMANDO
EURO-AV-BUCHSE
EURO-AV-SOCKET
PRESA EURO-AV
BILDROHRPLATTE
NETZSCHALTER
BILDROHRPLATTE /CRT BASE/ PIASTRA CINESC.