

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.

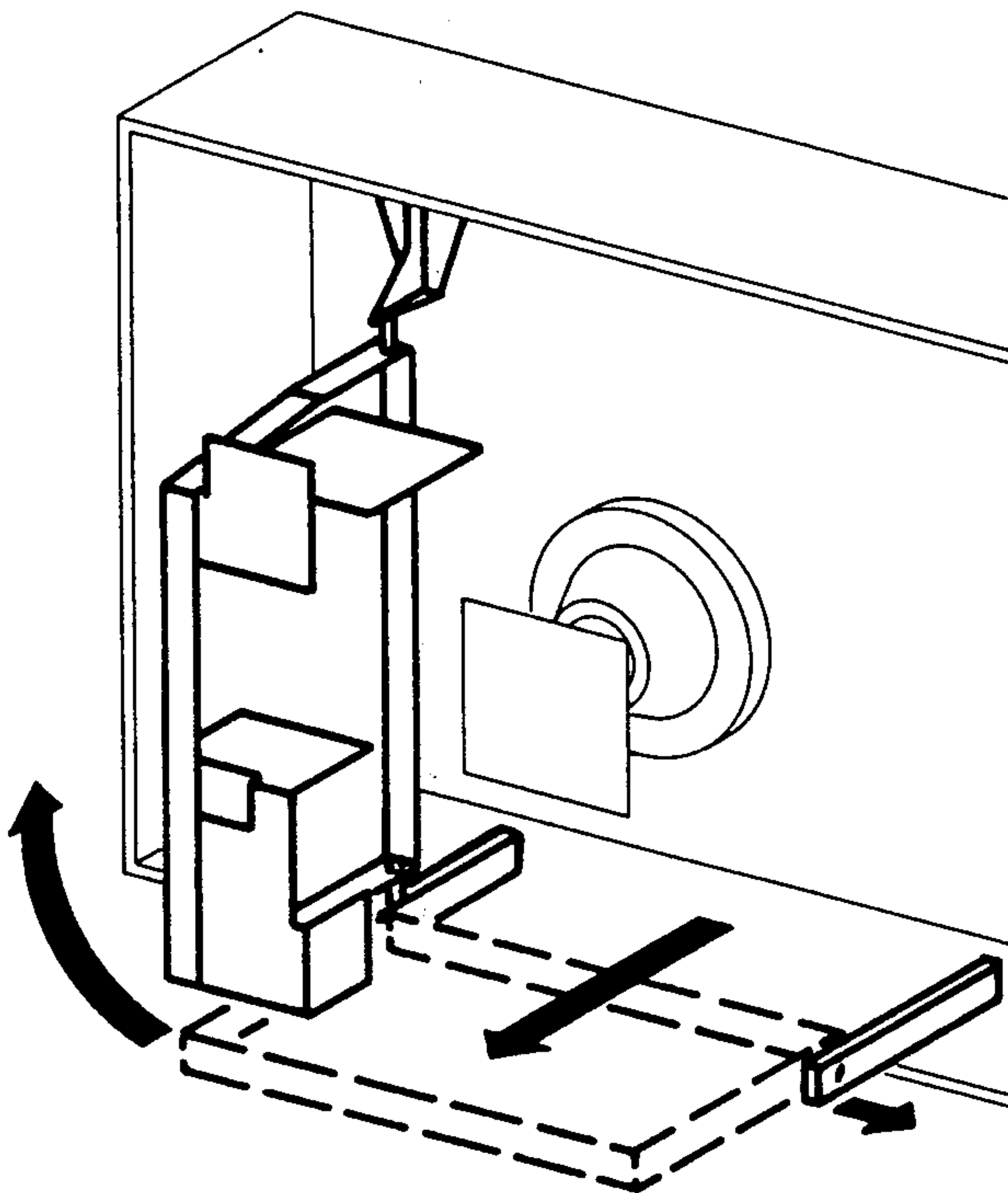
Avvertenza per i rivenditori specializzati!

In caso di schede ad innesto difettose consigliamo in primo luogo di rivolgersi al nostro Servizio permuta.

Servicestellung

Service position

Posizione di servizio

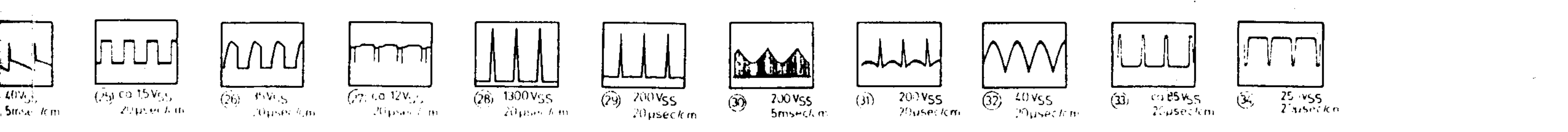
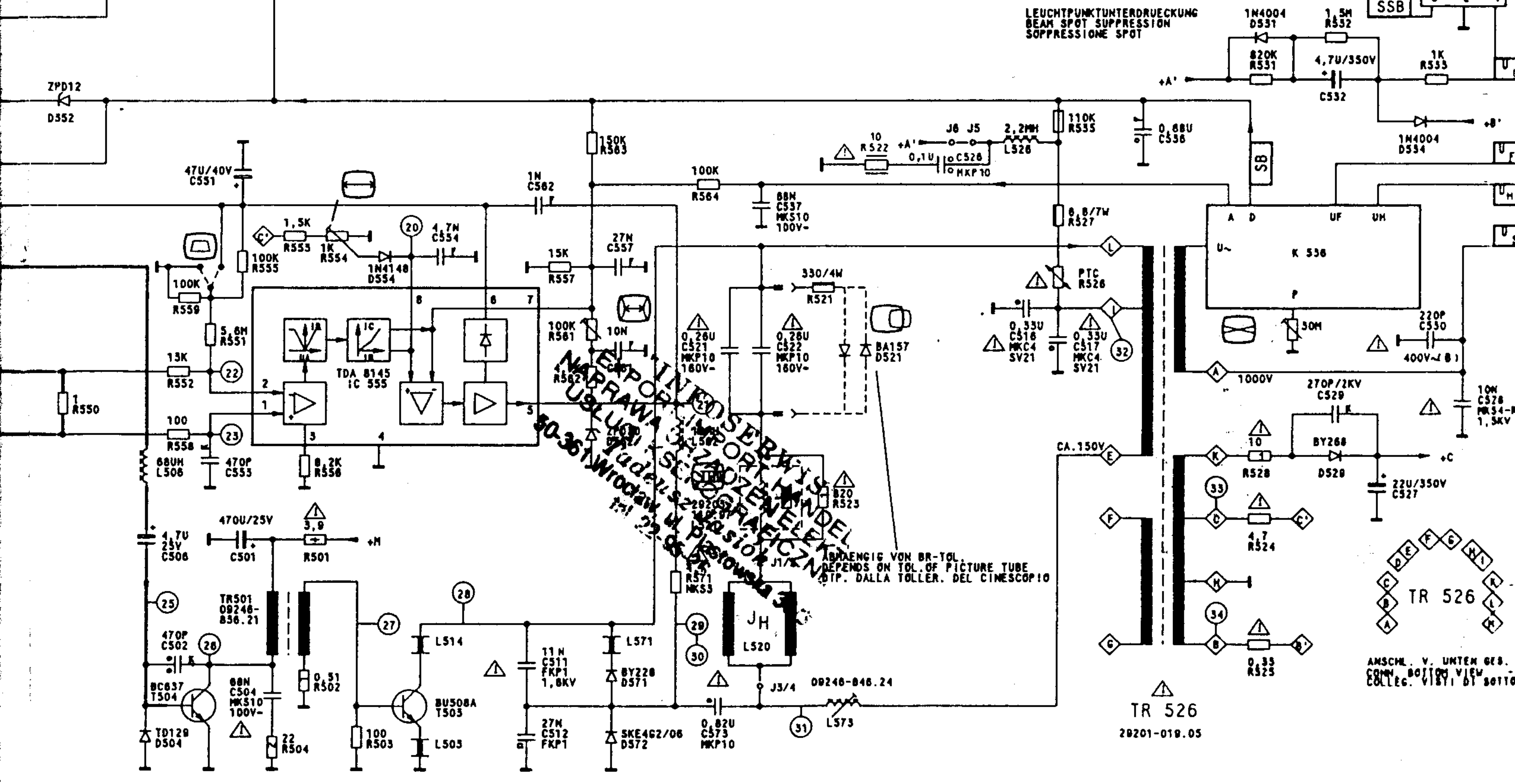
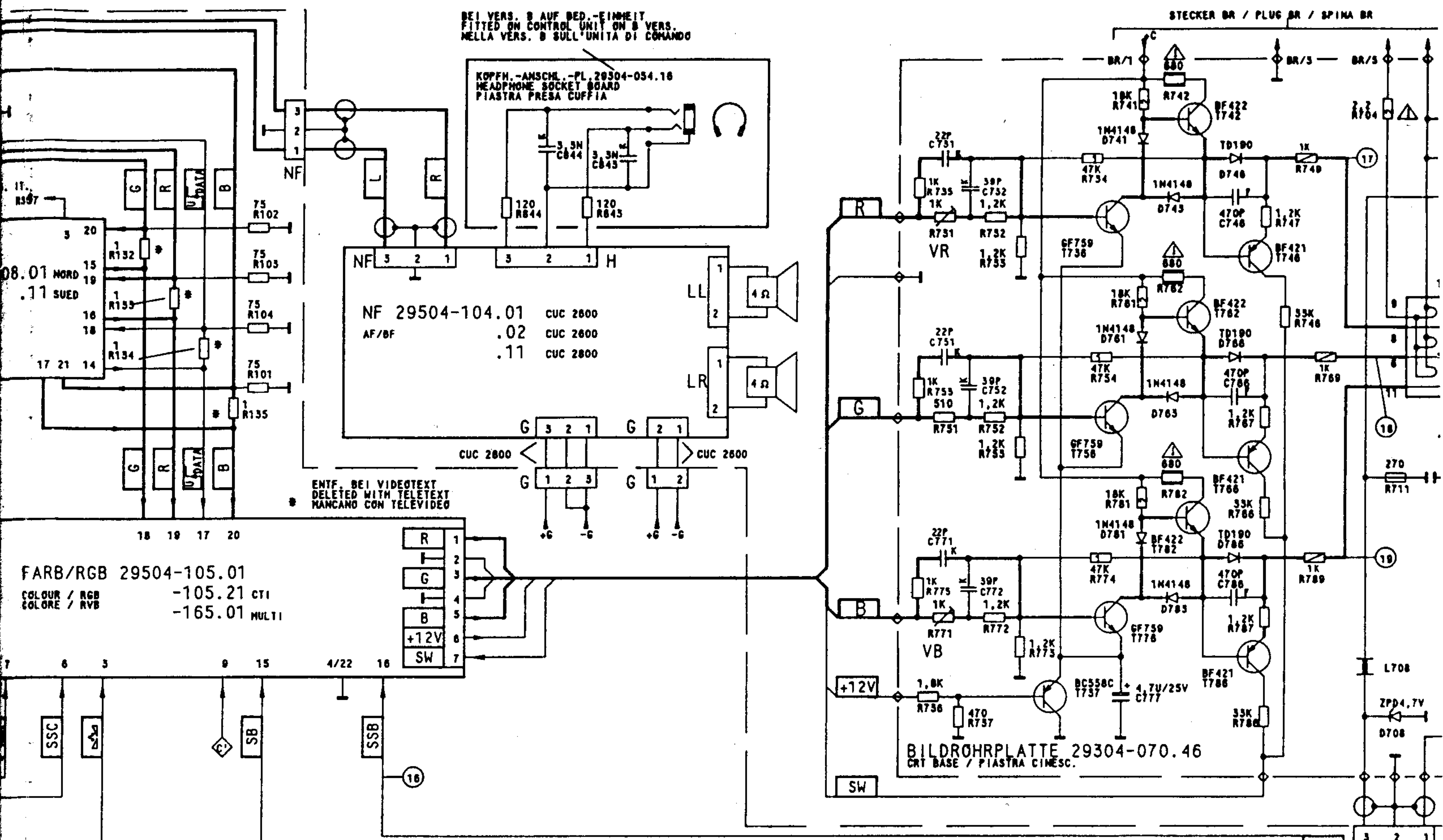


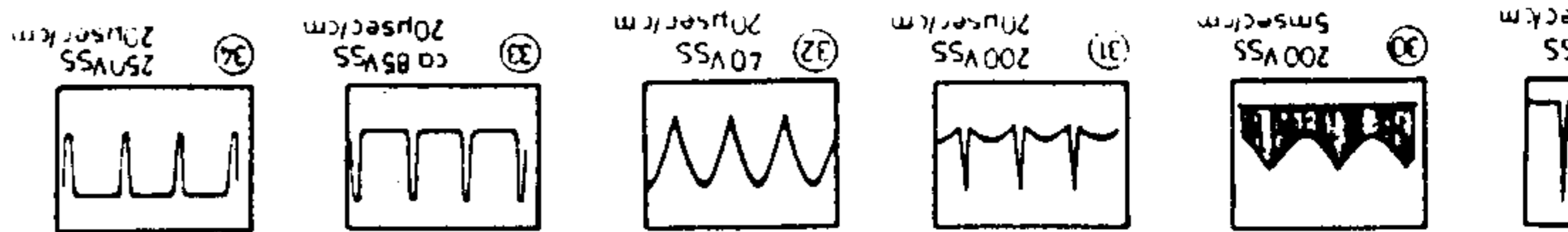
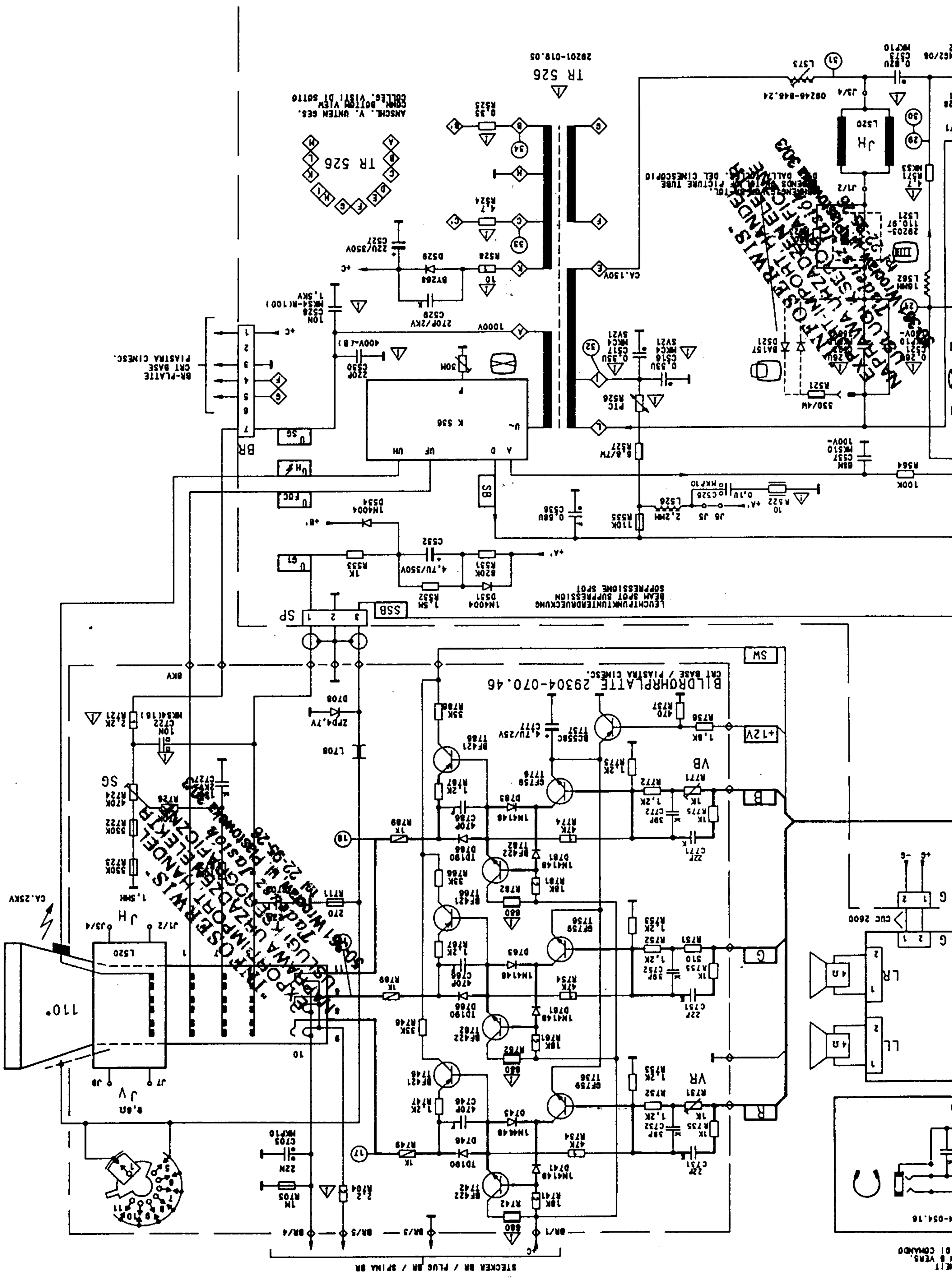
GRUNDIG
SERVICE MANUAL
CUC 2800
CUC 2600



VERS. A
GERAETE MIT SYMM. GEHAEUSE
SETS WITH SYMM. CABINET
APP. CON MOBILE SIMMETRICO

| | |
|---------------|--------------|
| ST 63-250 CTI | (9.25201-01) |
| ST 70-250 CTI | (9.25196-01) |
| ST 70-250 CTI | (9.25196-06) |
| ST 70-250/9 | (9.25197-01) |





A 50 EAS OOX 01 (25.1)

04-054.18
 1 DI COMAND
 2M 8 VENS

Service am I²C-Bus

Bei Fehlfunktionen des Gerätes, die nicht auf Netzteil, Hochspannung und Ableitung 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 | Mebwert | Mebpunkt | Mögliche Fehler |
|----------------------|--|--|--|
| +H | 5 V | Pin 40, IC811 (SIE) Pin 4, (MOT) | D 671, IC 676, IC 811 |
| 4 MHz Takt | 4 MHz, 3 V _{SS} 5 V _{SS} nur im Einschaltmoment | Pin 22, IC811 (SIE) Pin 5, (MOT) Pin 23, IC811 (SIE) Pin 2, (MOT) | F 811, IC 811 C 806, IC 811 |
| I ² C Bus | 5 V _{SS} | Pin 8, 9, IC811 (SIE) Pin 21, 23, (MOT) | Die I ² C-Bus-Daten sind auch ohne TP-Bedienung oder Keyboardeingabe vorhanden. Bei fehlender Daten: Die Leitungen SDA und SCL (Brücken auf dem Bedienteil) auf-trennen. Sind dann die I ² C-Bus-Daten vorhanden, liegt eine Überlastung des I ² C-Bus vor. Fehlerursache: Tuner, ZF, Videotext, IC 350, EURO-AV-Buchse. |

Table 1

| Test | Test Figures | Test |
|------|--------------|---|
| +H | 5 V | 4 MHz clock |
| | | 5 V _{pp} only at moment of switch on |
| | | 5 V _{pp} |

Table 2

Possible faults due to I²C Bus control which c

Tabelle 2

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

| Fehler | Mögliche Ursache | Mebwert | Mebpunkt |
|---|--|--|--|
| 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 | IR-Vorverstärker D 1201, T 1204, +B, IC 1211, D 831, +H, IC 811, T 801, | +B = 12 V 5 V _{SS} (IR-Signal) 0 Ω 3 V _{SS} | Pin 6 IC 1211 Pin 3 IC 1211 Pin 8, 9 IC 811 (SIE) Pin 21, 23 (MOT) am Schalter Pin 22 IC 811 (SIE) Pin 5 (MOT) |
| Keine Frequenzabstimmung | +A über R 337 +B, +H Daten (SDA)/Clock (SCL) I ² C Bus variable Abstimmung 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' I ² C 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' I ² C Bus, SDA, SCL keine Koizidenz | 12 V 5 V _{SS} 5 V | ZF 21, 17 ZF 25, 24 ZF 20 IC 811 Pin 19 (SIE) Pin 35 (MOT) |
| Keine Analogwerte | I ² C Bus, IC 350 | 5 V _{SS} | IC 350 Pin 4/5 Farb/RGB-Baustein: Stift 10 (Helligk.) Stift 11 (Kontrast) Stift 12 (Farbkon.) |
| Keine Helligkeit Kein Kontrast Kein Farbkontrast | D/A-Converter D/A-Converter D/A-Converter | 1-3 V 2-4 V 2-4 V | |
| Nur bei TP-Bedienung Kein Videotext | +B, +E I ² C 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 I ² C Bus SDA/T 111 | 5 V 5 V _{SS} 5 V _{SS} | Euro-AV-Buchse 10 Euro-AV-Buchse 14 Euro-AV-Buchse 12 |

Table 2

| Fault | Possible Cause |
|--|---|
| No functions accepted by keyboard | +H IC 811 |
| Channel No. cannot be changed with remote control | IR preamplifier D 1201, T 1204, + IC 1211, D 831, + IC 811, T 801 Wiper switch of m button F 811 |
| LED does not switch | Channel No. cannot be changed with remote control IR preamplifier D 1201, T 1204, + IC 1211, D 831, + IC 811, T 801 Wiper switch of m button F 811 |
| No frequency tuning | +A via R 337 +B, +H Data (SDA)/clock I ² C Bus Variation of tuning o tage as function o channel selection |
| No CVS at IF module contacts 7, 9 | +B, +B' I ² C Bus, SDA, SCL absent at tuner |
| No AF signal at IF module contacts 28/29 | +B, +B' I ² C Bus, SDA, SCL no coincidence |
| No analog signals | I ² C Bus, IC 350 |
| Brightness Contrast Colour contrast | D/A converter D/A converter D/A converter |
| Remote control operation only No Videotext (Teletext) | +B, +E I ² C bus, SDA T 816 ICL |
| Remote control operation involving video 1 by No VCR remote control | T 821, VCL T 816, ICL I ² C bus SDA/T 111 |

Service checks on the I²C Bus

If faults occur in the set which cannot be attributed to the I²C bus should be checked using Table 1. Via the I²C bus the microcomputer in the control (Teletext), Scart socket (Euro AV socket) and N.B. when a module is being changed, the set plugged even in the "standby" mode. Observe

Note:

Also in position "standby" the set must be switched off before any module is changed. Observe MOS-handling precautions!

und Ablenkung zurückzuführen sind, ist
 nach Tabelle 2 durchgeführt werden.
 Tuner, ZF, Videotext, Scartbuchse (Euro-
 AV-Buchse) über den I²C Bus.

MOS-handling beachten

| Mögliche Fehler |
|---|
| D 671, IC 676, IC 811 |
| F 811, IC 811 C 806, IC 811 |
| Die I ² C-Bus-Daten sind auch ohne TP-Bedienung oder Keyboardeingabe vorhanden. Bei fehlenden Daten: Die Leitungen SDA und SCL (Brücken auf dem Bedienteil) auftrennen. Sind dann die I ² C-Bus-Daten vorhanden, liegt eine Überlastung des I ² C-Bus vor. Fehlerursache: Tuner, ZF, Videotext, IC 350, EURO-AV-Buchse. |

us-Steuerung.

| | Meßpunkt |
|---------------------|---|
| e 1 | IC 811 pin 40 (SIE) Pin 4 (MOT) |
| nal) altvorgang) | Pin 6 IC 1211 Pin 3 IC 1211 Pin 8, 9 IC 811 (SIE) Pin 21, 23 (MOT) |
| iderstand | am Schalter Pin 22 IC 811 (SIE) Pin 5 (MOT) |
| | Tuner Stift 1 Tuner Stift 16, 2 Tuner Stift 6, 5 Tuner Stift 13, 15 |
| | ZF 21, 17 Tuner 6, 5 |
| | ZF 21, 17 ZF 25, 24 ZF 20 IC 811 Pin 19 (SIE) Pin 35 (MOT) |
| | IC 350 Pin 4/5 Farb/RGB-Baustein: Stift 10 (Helligk.) Stift 11 (Kontrast) Stift 12 (Farbkon.) |
| | VT 13, 2 VT 9 VT 11 |
| | Euro-AV-Buchse 10 Euro-AV-Buchse 14 Euro-AV-Buchse 12 |

Service checks on the I²C Bus

If faults occur in the set which cannot be attributed to the power supply unit, the EHT or the deflection system, the I²C bus should be checked using Table 1 before further service work is carried using Table 2.

Via the I²C bus the microcomputer in the control unit IC 811 supplies control signals for the tuner, IF, Videotext (Teletext), Scart socket (Euro AV socket) including the VCR remote control, and the RGB analog signals.

Note:

N.B. when a module is being changed, the set should be switched off completely. Modules must not be unplugged even in the "standby" mode. Observe MOS handling precautions.

Table 1

| Test | Test Figures | Test Point | Possible Faults |
|----------------------|--|--|---|
| +H | 5 V | Pin 40, IC 811 (SIE) Pin 4, (MOT) | D 671, IC 676, IC 811 |
| 4 MHz clock Reset | 4 MHz, 3 V _{pp} 5 V _{pp} only at moment of switch on | Pin 22, IC 811 (SIE) Pin 5, (MOT) Pin 23, IC 811 (SIE) Pin 2, (MOT) | F 811, IC 811 C 806, IC 811 |
| I ² C Bus | 5 V _{pp} | Pin 8, 9, IC 811 (SIE) Pin 21, 23, (MOT) | The I ² C Bus data are present even without input from the remote control or keyboard. If data are absent, disconnect the SDA and SCL lines (links on control section). If data are then present on the I ² C Bus, the I ² C Bus is overloaded. Possible Faults: Tuner, IF, Videotext (Teletext), EURO AV socket, IC 350 |

Table 2

Possible faults due to I²C Bus control which can occur in any part of set.

| Fault | Possible Cause | Test Figure | Test Point |
|---|--|---|---|
| No functions accepted by keyboard | +H IC 811 | 5 V see Table 1 | IC 811 pin 40 (SIE) pin 4 (MOT) |
| Channel No. cannot be changed with remote control LED does not switch | IR preamplifier D 1201, T 1204, +B, IC 1211, D 831, +H IC 811, T 801 | +B = 12 V 5 V _{pp} (IR signal) 5 V _{pp} (switch-on cycle) | Pin 6 IC 1211 Pin 3 IC 1211 Pin 8, 9 IC 811 (SIE) Pin 21, 23 (MOT) |
| | Wiper switch of mains button F 811 | Contact resistance 0 ohm 3 V _{pp} | at switch pin 22 IC 811 (SIE) pin 5 (MOT) |
| No frequency tuning | +A via R 337 +B, +H Data (SDA)/clock (SCL) I ² C Bus Variation of tuning voltage as function of channel selection | approx. 46 V 12 V, 5 V 5 V _{pp} 0.2-30 V | Tuner, pin 1 Tuner, pins 16, 2 Tuner, pins 6, 5 Tuner, pins 13, 15 |
| No CCVS at IF module contacts 7, 9 | +B, +B' I ² C Bus, SDA, SCL absent at tuner | 12 V 5 V _{pp} | IF, pins 21, 17 Tuner, pins 6, 5 |
| No AF signal at IF module contacts 28/29 | +B, +B' I ² C Bus, SDA, SCL no coincidence | 12 V 5 V _{pp} 12 V 5 V | IF, pins 21, 17 IF, pins 25, 24 IF, pin 20 IC 811 pin 19 (SIE) pin 35 (MOT) |
| No analog signals Brightness Contrast Colour contrast | I ² C Bus, IC 350 D/A convertor D/A convertor D/A convertor | 5 V _{pp} 1-3 V 2-4 V 2-4 V | IC 350, pin 4, 5 Colour/RGB module: pin 10 (brightness) pin 11 (contrast) pin 12 (colour) |
| Remote control operation only No Videotext (Teletext) | +B', +E I ² C bus, SDA T 816 ICL | 12 V, 8 V 5 V _{pp} 5 V _{pp} | VT, pin 13, 2 VT, pin 9 VT, pin 11 |
| Remote control operation involving video 1 button only No VCR remote control | T 821, VCL T 816, ICL I ² C bus SDA/T 111 | 5 V _{pp} 5 V _{pp} 5 V _{pp} | Euro AV socket, pin 10 Euro AV socket, pin 14 Euro AV socket, pin 12 |

Bedeutung
meaning
significati

Wichtige Schaltzeichen
Important circuit symbols
Segni circuitali importanti

CT. BUTTON

PA I
BANDE I

III
III
DA III
BANDE III

UMF

X

ING VOLTAGE
SELEZ. BANDA
SELECT. BANDE

VHF
VHF
VHF

UHF
UHF
UHF

AFC
AFC
AFC

T.
AV
AV

STANDARD
NORMA
STANDARD

COINC.
COINC.
COINC.

W
EURO-AV
EURO-AV

QUELLE
VIDEO SOURCE
SORG. VIDEO
SOURCE VIDEO

BETR.
DATA MODE
DATI
FONCT. DONNEES




















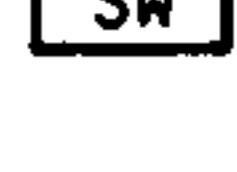






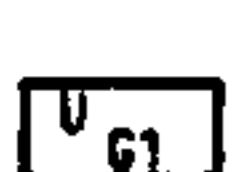
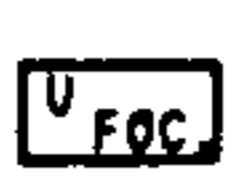


Z
4,5 MHz
4,5 MHz
4,5 MHz


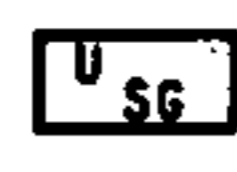








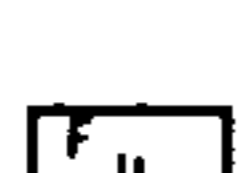

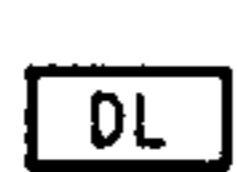

ERT
LAGE
RITARD.
RETARDEE

ER
A TUNER
TUNER

AFC
AFC












A
NCHMENT

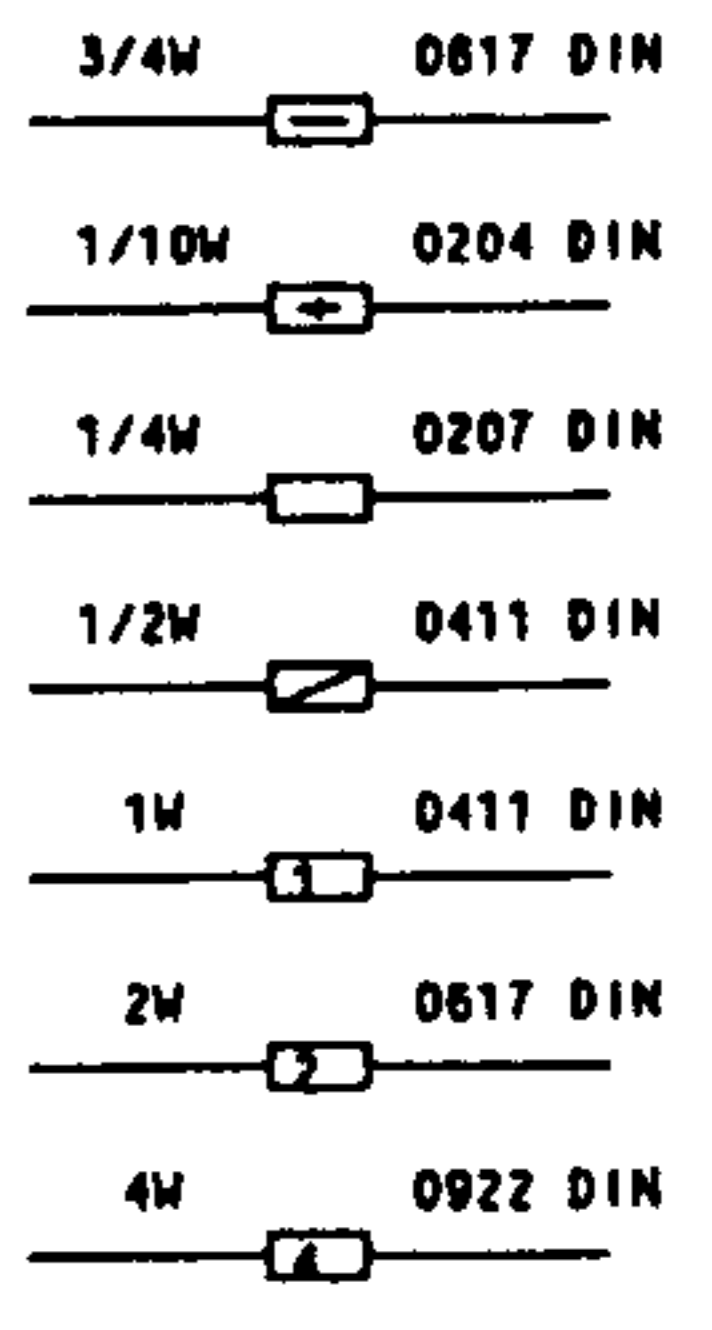
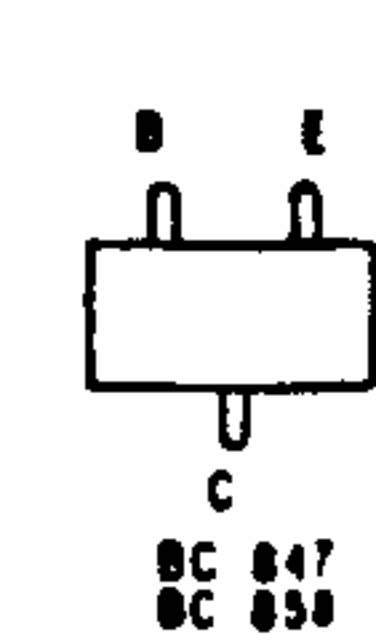
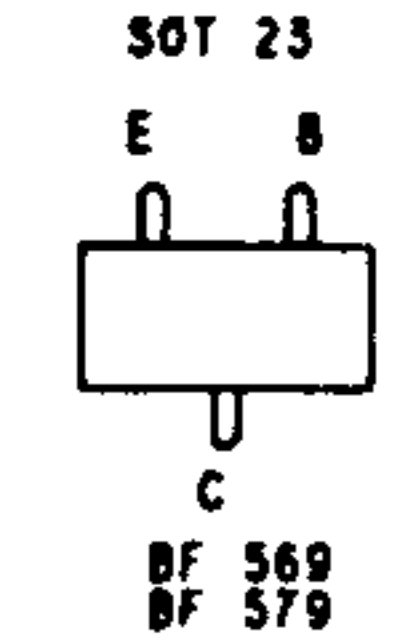
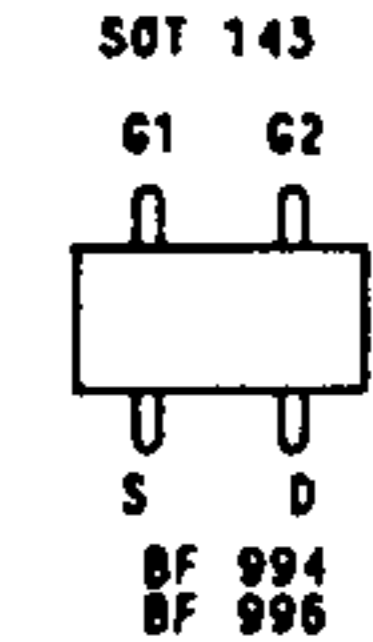
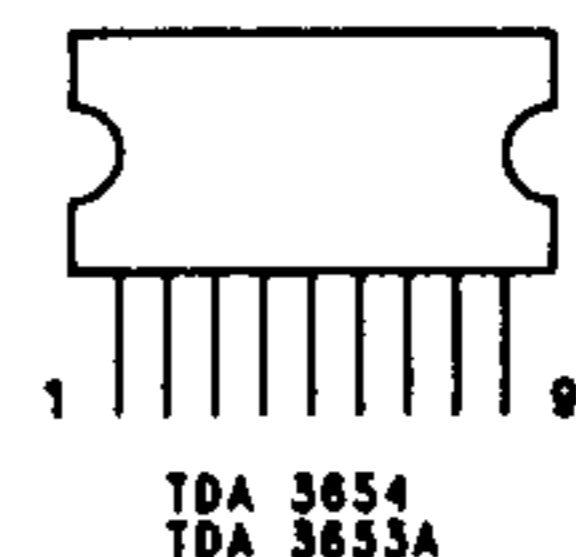
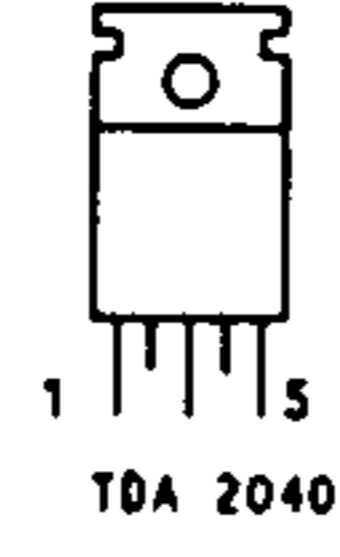
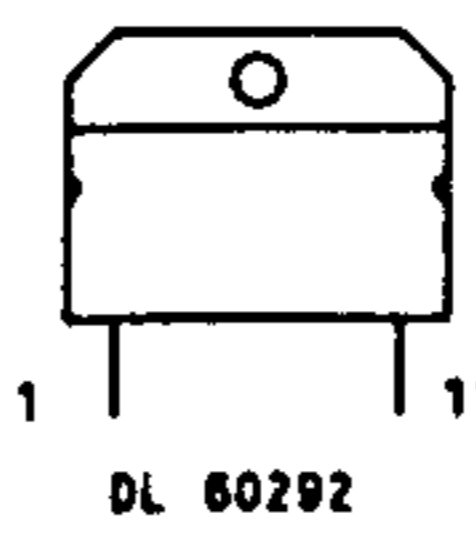
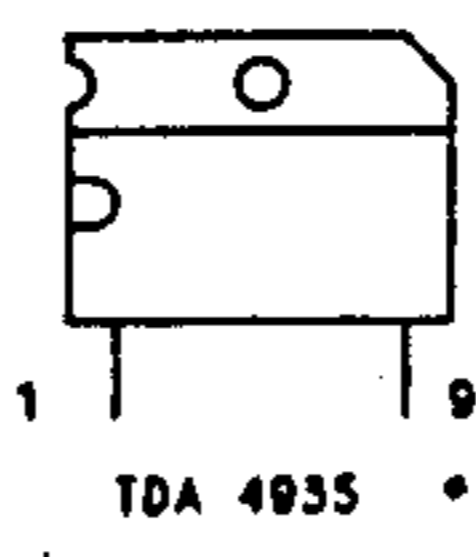
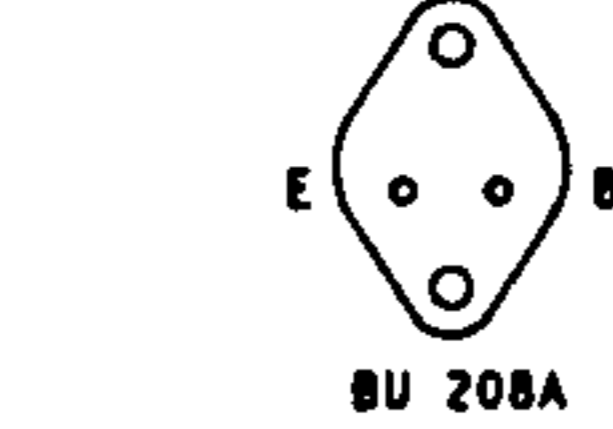
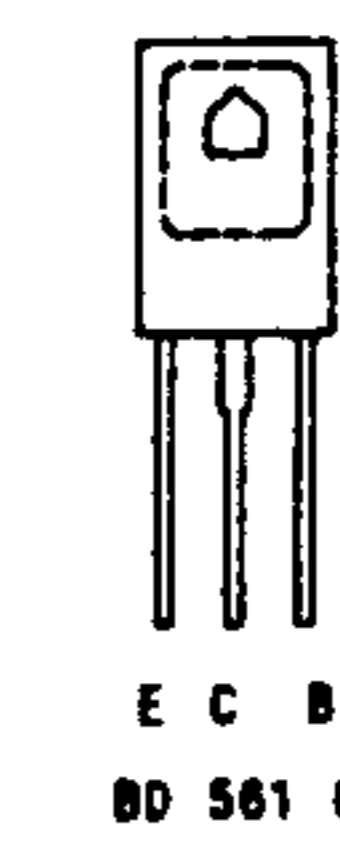
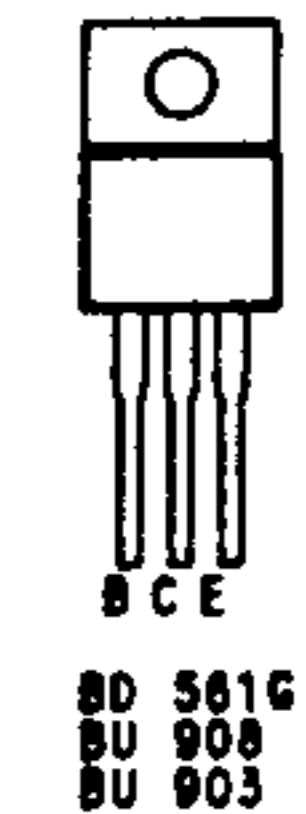
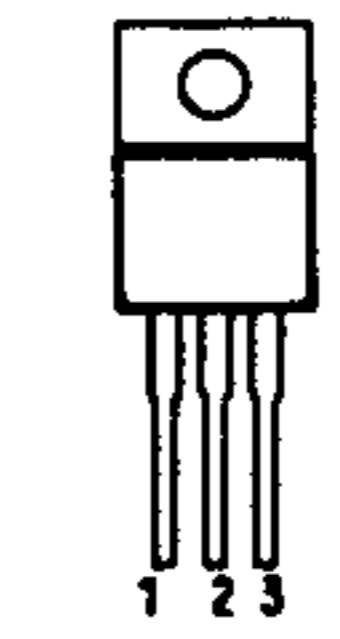
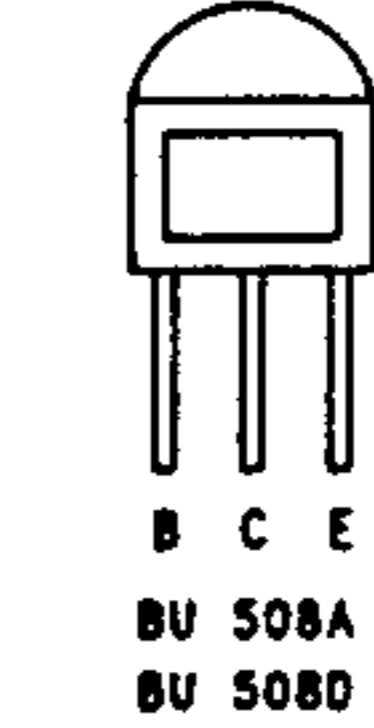
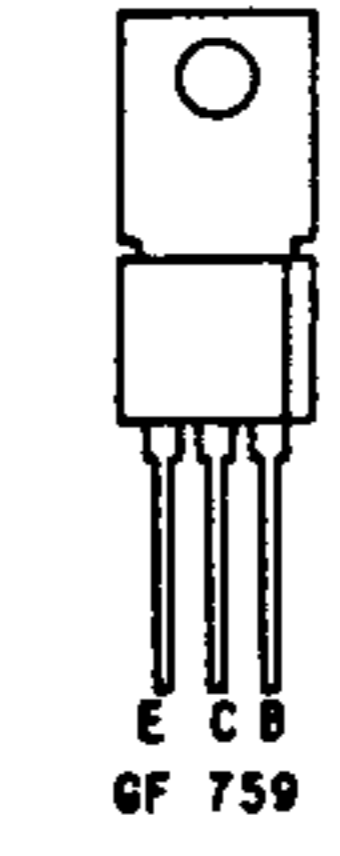
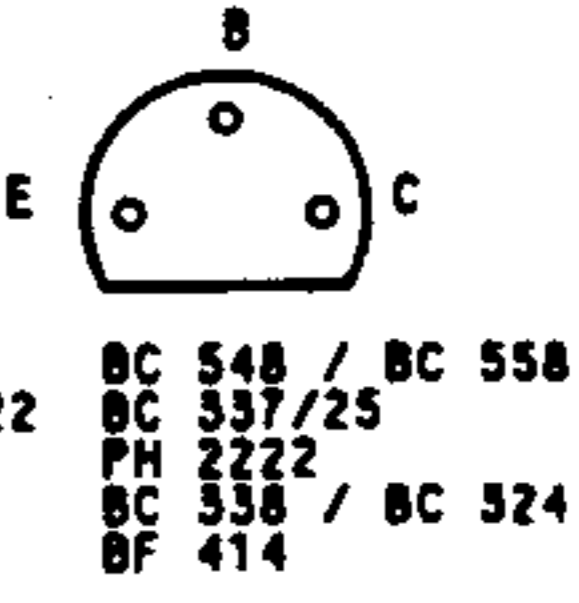
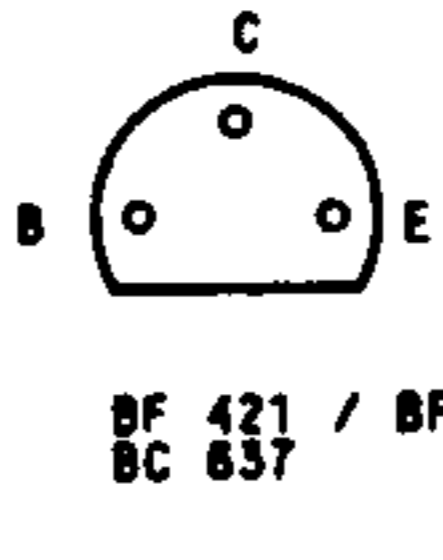
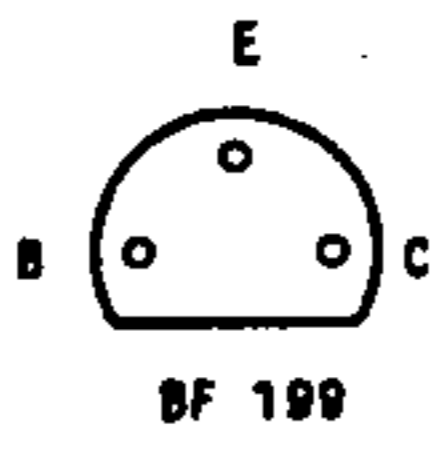
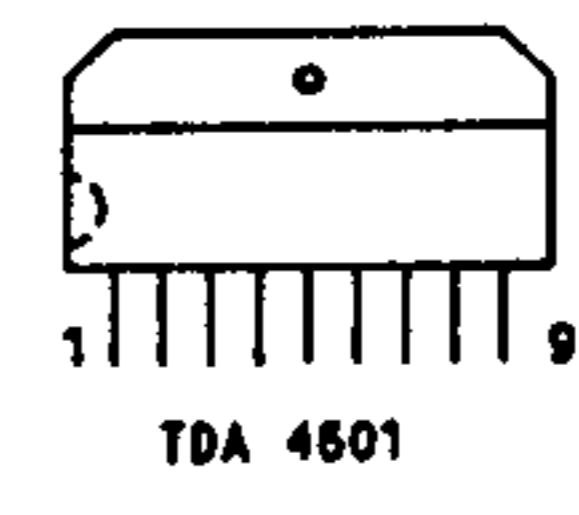
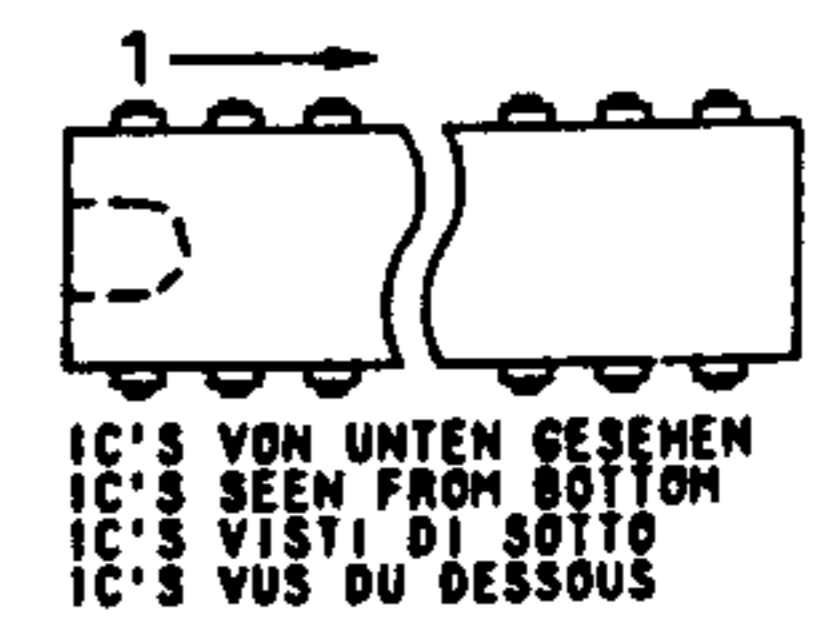
-  VERT. TASTIMPULS
VERT. GATING PULSE
IMP. A CADENZA VERT.
IMP. TRAME
-  VERT. PARABEL
VERT. PARABOLA
PARABOLA VERT.
SIGNAL PARABOLIQUE
-  VERT. SAEGEZAHN
VERT. SAW TOOTH
DENTE DI SEGA VERT.
SIGNAL DENT DE SCIE
-  HOR. ANSTEUERUNG
HORIZ. DRIVE
PILOTAGGIO ORIZZ.
SYNCHR. LIGNES
-  REF. IMPULS
REFERENCE PULSE
IMP. DI RIFER.
IMP. DE REFER.
-  SCHUTZSCHALTUNG
CIRCUIT PROTECTION
CIRCUITO DI PROTEZIONE
CIRCUIT DE SECURITE
-  FARBTON
TINT
TINTA
TEINTE
-  REF. LAUTSTAERKE
VOLUME REF. VOLT.
TENS. DI RIF. VOLUME
TENS. DE RIF. VOL. SONORE
-  HELLIGKEIT
BRIGHTNESS
LUMINOSITA'
LUMINOSITE
-  KONTRAST
CONTRAST
CONTRASTO
CONTRASTE
-  FARBKONTRAST
CONTRAST COLOUR
CONTRASTO COLORE
CONTRASTE COULEUR
-  FBAS-SIGNAL
CCVS SIGNAL
SEGNALE SVCC
SIGNAL VIDEO COMPOSITE
-  SSC SUPERSANDCASTLE
-  SB STRAHLSTR. BEGR.
BEAM CURRENT LIM.
CORRENTE CATODICA MEDIA
LIM. COUR. DE FAISCEAU
-  SSB SPITZ. STRAHLSTR. BEGR.
PEAK BEAM CURRENT LIMITING
CORR. CATODICA DI PICCO
LIM. DE FAISCEAU CRETE
-  R ROT-SIGNAL
RED SIGNAL
SEGNALE ROSSO
SIGNAL ROUGE
-  G GRUEN-SIGNAL
GREEN SIGNAL
SEGNALE VERDE
SIGNAL VERT
-  B BLAU-SIGNAL
BLUE SIGNAL
SEGNALE BLU
SIGNAL BLEU
-  Y Y-SIGNAL
SEGNALE Y
SIGNAL Y
-  F F-SIGNAL
CHROMA SIGNAL
SEGNALE F
SIGNAL CHROMA
-  SW SCHWARZWERT
BLACK LEVEL
LIVELLO DEL NERO
NIVEAU DU NOIR
-  NF NF-SIGNAL
AF SIGNAL
SEGNALE BF
SIGNAL BF
-  NF-L NF-SIGNAL LINKS
AF SIGNAL LEFT
SEGNALE BF SINISTRA
SIGNAL BF GAUCHE
-  NF-R NF-SIGNAL RECHTS
AF SIGNAL RIGHT
SEGNALE BF DESTRA
SIGNAL BF DROIT
-  EURO-AV VIDEO VIDEO SIGNAL EURO-AV
SEGNALE VIDEO EURO-AV
SIGNAL VIDEO NORME FR
-  EURO-AV AUDIO AUDIO SIGNAL EURO-AV
SEGNALE AUDIO EURO-AV
SIGNAL AUDIO NORME FR
-  U/LED SCHALTSP. LED
LED SWITCHING VOLT.
LED TENS. DI COMMUT.
TENS. DE COMMUT. LED
-  IR IR-SIGNAL
SEGNALE IR
SIGNAL IR
-  U G1 SPG. GITTER 1
VOLTAGE GRID 1
TENS. GRIGLIA 1
TENS. GRILLE G1
-  U FOC FOKUSSP.
FOCUSING VOLTAGE
TENS. DI FOCALIZZ.
TENS. DE FOCALIS.

-  UN HOCHSPANNUNG
EHT VOLTAGE
ALTA TENS.
HAUTE TENS.
-  U SG SCHIRMGITTERSP.
SCREEN-GRID VOLT.
TENS. GRIGLIA SCHERMO
TENS. GRILLE-ECRAN
-  TE TEXT ENABLE
-  SCL I² C-CLOCK
-  VCL VCR-CLOCK
-  ICL I-BUS-CLOCK
-  SDA DATEN
DATA
DATI
DONNEES
-  ZF ZF-SIGNAL
IF SIGNAL
SEGNALE FI
SIGNAL FI
-  PP PAL PRIORITAET
PAL PRIORITY
PRIORITA' PAL
PRIORITE PAL
-  F-DIR. F-SIGNAL DIREKT
F SIGNAL DIRECT
SEGNALE F DIRETTO
SIGNAL CHROMA DIRECT
-  F V FV-SIGNAL
FV SIGNAL
SEGNALE FV
SIGNAL FV
-  F U FU-SIGNAL
FU SIGNAL
SEGNALE FU
SIGNAL FX
-  F-VERZ F-SIGNAL VERZOEGERT
F SIGNAL DELAYED
SEGNALE F RITARD.
SIGNAL CHROMA RETARDE
-  DL VERZOEGERUNGSLINIE
DELAY LINE
LINEA DI RITARDO
LIGNE A RETARD

 BEI ERSATZ AUS SICHERHEITSGRUENDEN NUR ORIGINALBAUTEILE VERWENDEN.
FOR REASONS OF SAFETY USE ORIGINAL PARTS ONLY WHEN REPLACING.
IN CASO DI SOSTITUZIONE UTILIZZARE PER RAGIONI DI SICUREZZA SOLAMENTE
PEZZI DI RICAMBIO ORIGINALI.
EN CAS DE REMPLACEMENT N'UTILISER, POUR DES RAISONS DE SECURITE,
QUE DES PIECES D'ORIGINE.

BEI EINGRIFFEN SCHUTZMASSNAHMEN FUER MOS-BAUTEILE BEACHTEN!
WHEN HANDLING MOS-CIRCUITS, ALWAYS OBSERVE THE MOS PROTECTION MEASURES!
ADOOPERANDO COMPONENTI O CIRCUITI MOS OSSERVARNE LE CORRISPONDENTI
MISURE DI PROTEZIONE!
LORS DE LA MANIPULATION DES CIRCUITS MOS, RESPECTER LES
PRESCRIPTIONS MOS!

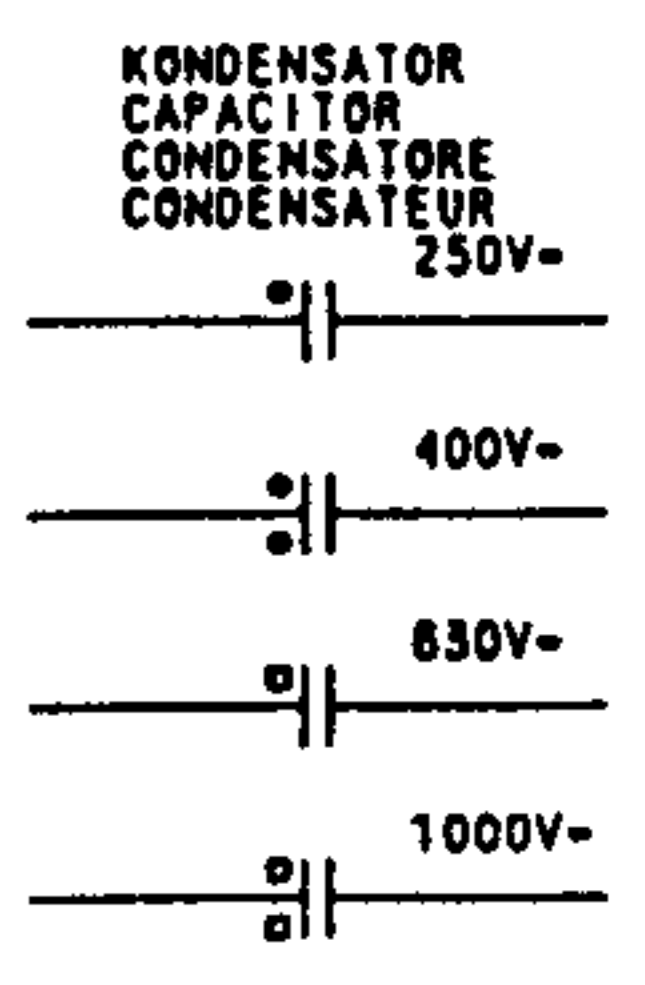
-  ZELENBREITE
LINE WIDTH
LARGHEZZA DI RIGA
AMPLITUDE HORIZONTALE
-  OST / WEST AMPLITUDE
EAST / WEST AMPLITUDE
AMPIEZZA EST / OVEST
AMPLITUDE EST / OUEST
-  HOR. LINEARITAET
HORIZ. LINEARITY
LINEAR. ORIZZ.
LINEAR. HORIZONT.
-  BILDAGE HOR.
HORIZ. PICTURE POSITION
POSIZIONE ORIZZ. D'IMMAGINE
CADRAGE HORIZONT.
-  FOKUSREGLER
FOCUS CONTROL
REGOLAT. DI FOCALIZZ.
REGLAGE DE FOCALISATION
-  BILDAGE VERT.
VERT. PICTURE POSITION
POSIZ. VERT. D'IMMAGINE
CADRAGE VERTICAL
-  BILDAMPLITUDE
FIELD AMPLITUDE
AMPIEZZA D'IMMAGINE
AMPLITUDE VERTICALE
-  TRAPEZ
TRAPEZIUM
TRAPEZIO
TRAPEZE
-  HOR. FREQUENZ
HOR. FREQUENCY
FREQ. ORIZZ.
FREQ. HORIZ.
-  VERT. FREQUENZ
VERT. FREQUENCY
FREQ. VERT.
-  VERT. LINEARITAET
VERT. LINEARITY
LINEAR. VERT.
LINEAR. VERT.



WIDERSTAND NICHT BRENNBAR
RESISTOR NOT FLAMMABLE
RESISTENZA NON INFAMMABILE
RESISTENZA ININFLAMMABILE

DRAHTWIDERSTAND
WIRE RESISTOR
RESISTENZA A FILO
RESISTANCE BOBINEE

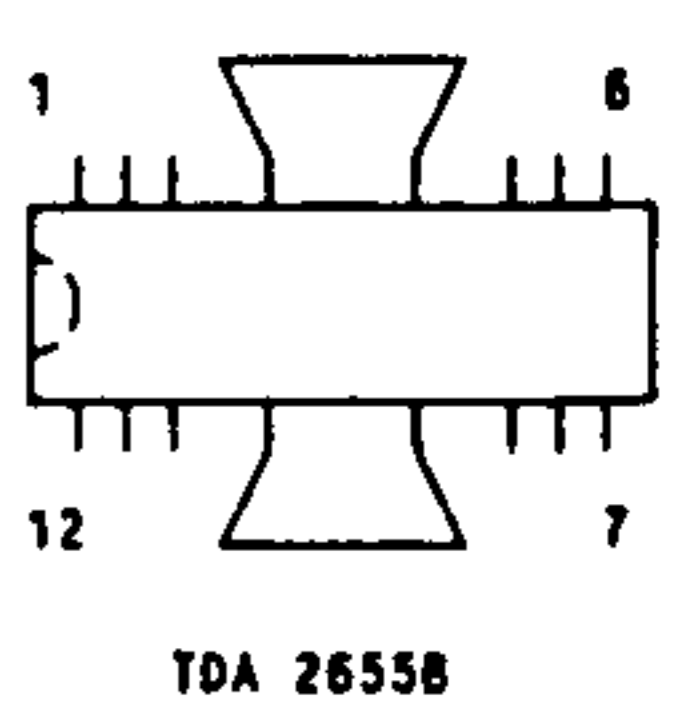
SICHERUNGSWIDERSTAND
SAFETY RESISTOR
RESISTENZA DI SICUREZZA
RESISTANCE DISJONCTABLE



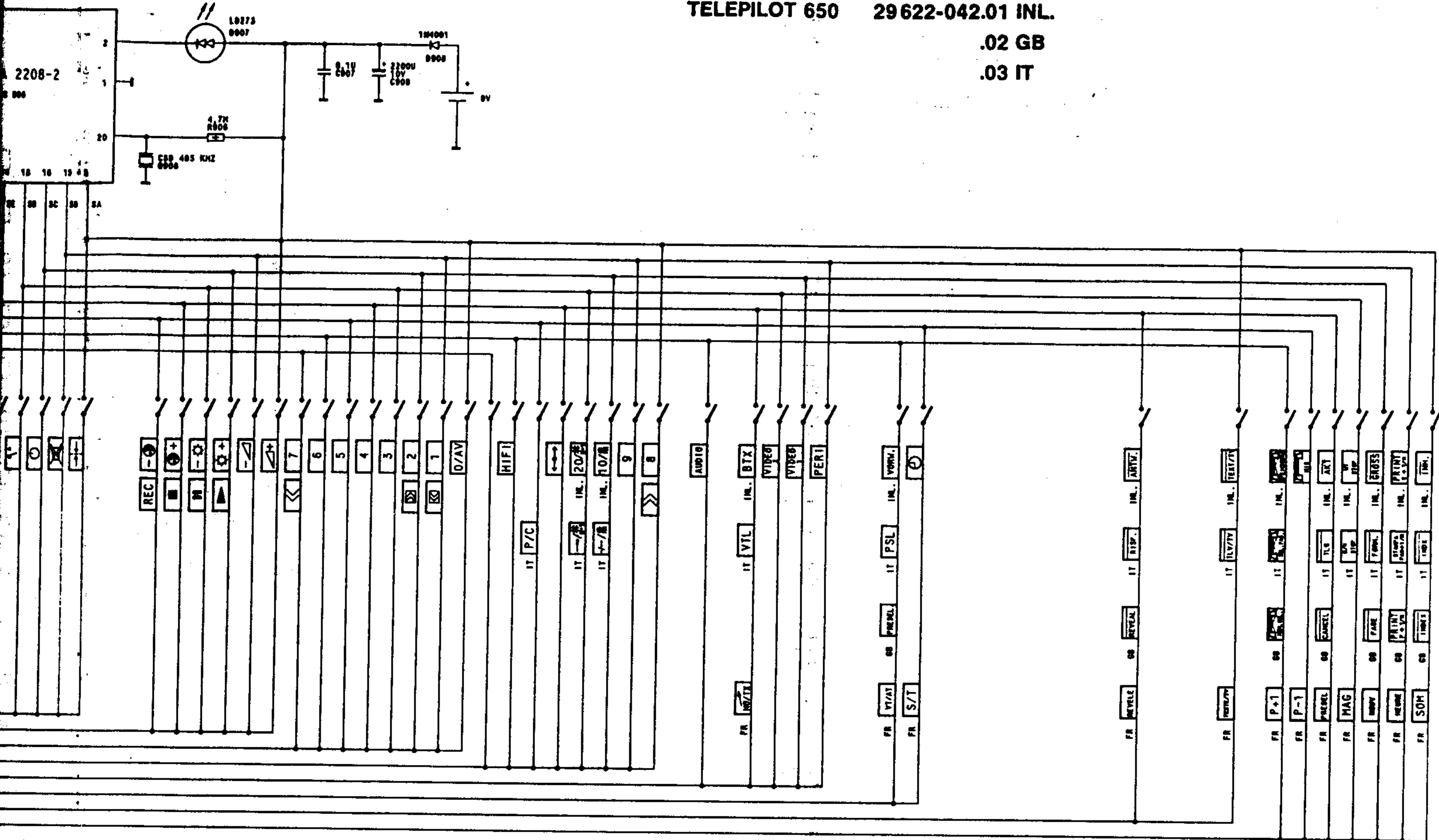
FOLIE
FOLIA
A FOGLIA
FOLIO PLASTIQUE

KERAMIK
CERAMIC
CERAMICO
CERAMIQUE

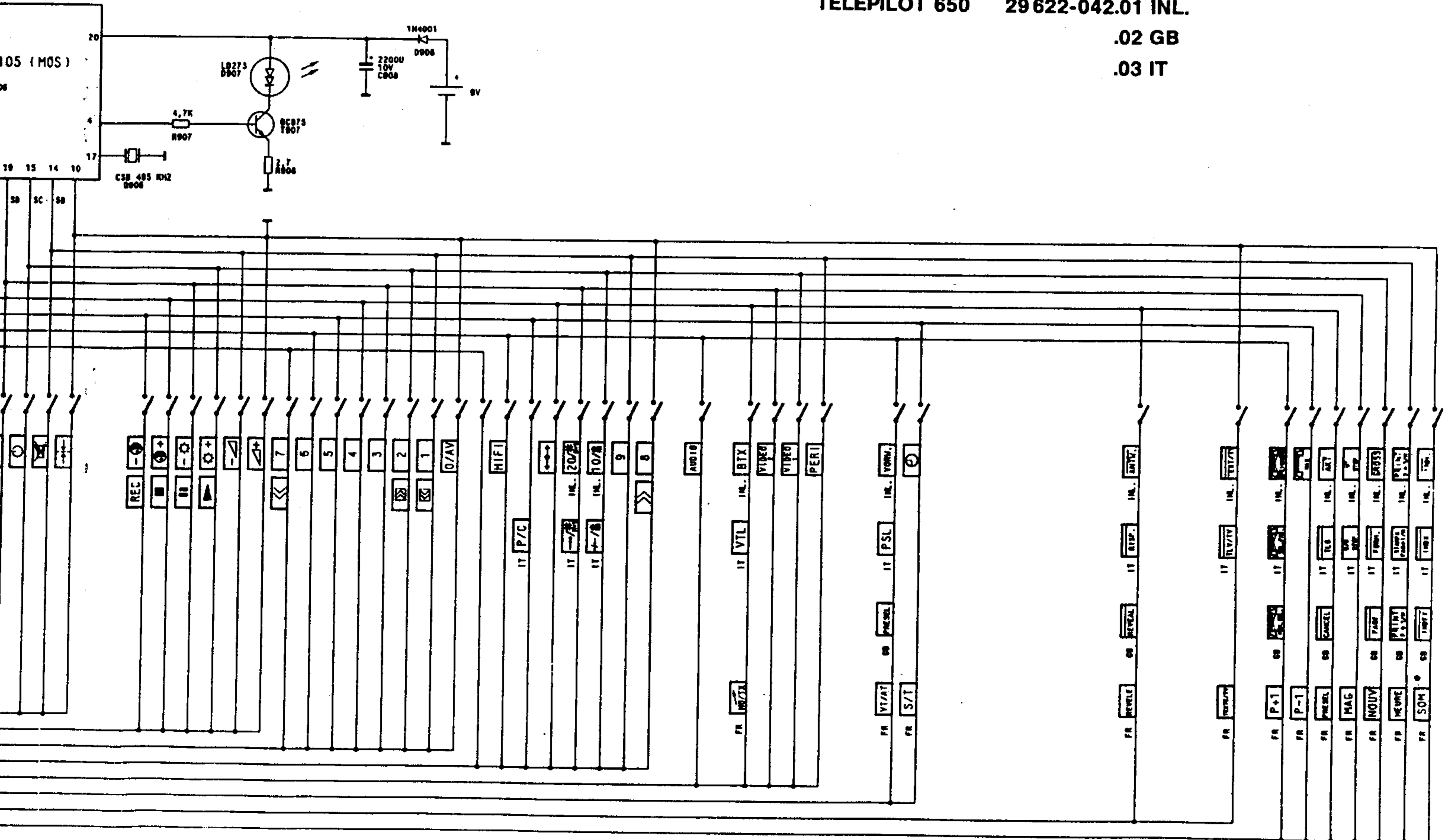
ELKO
ELECTROLYTIC
ELETTROLITICO
ELECTROLYTIQUE

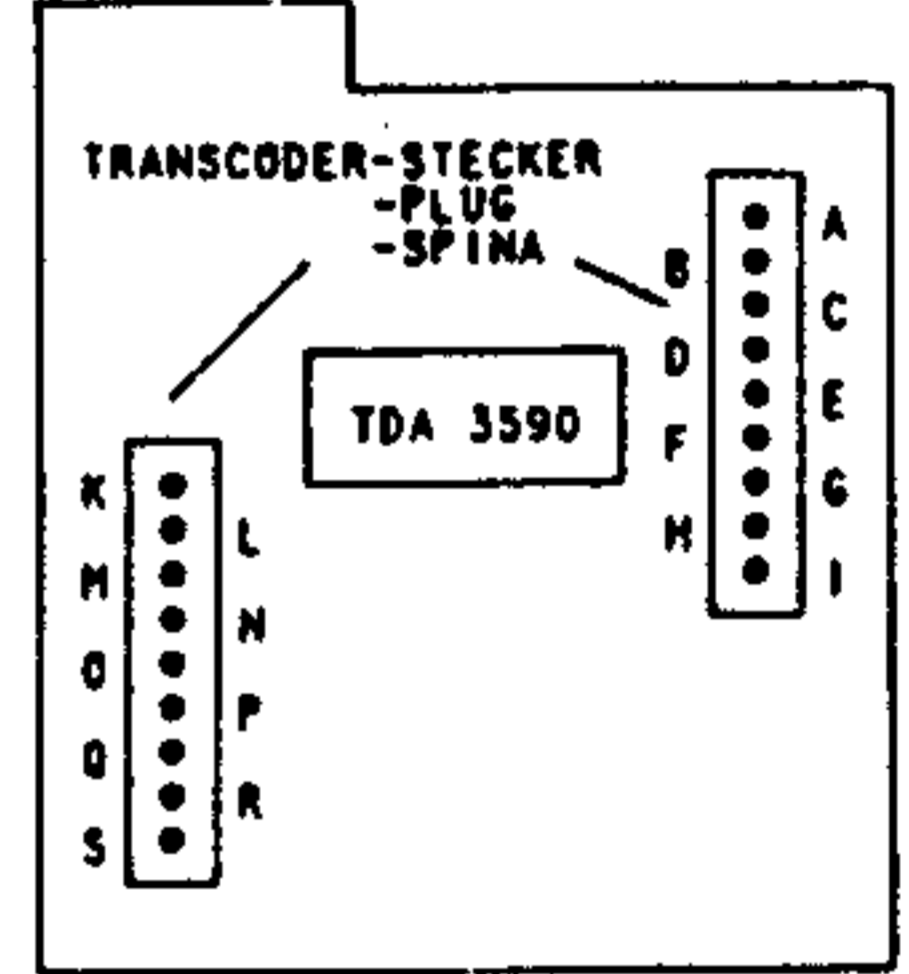
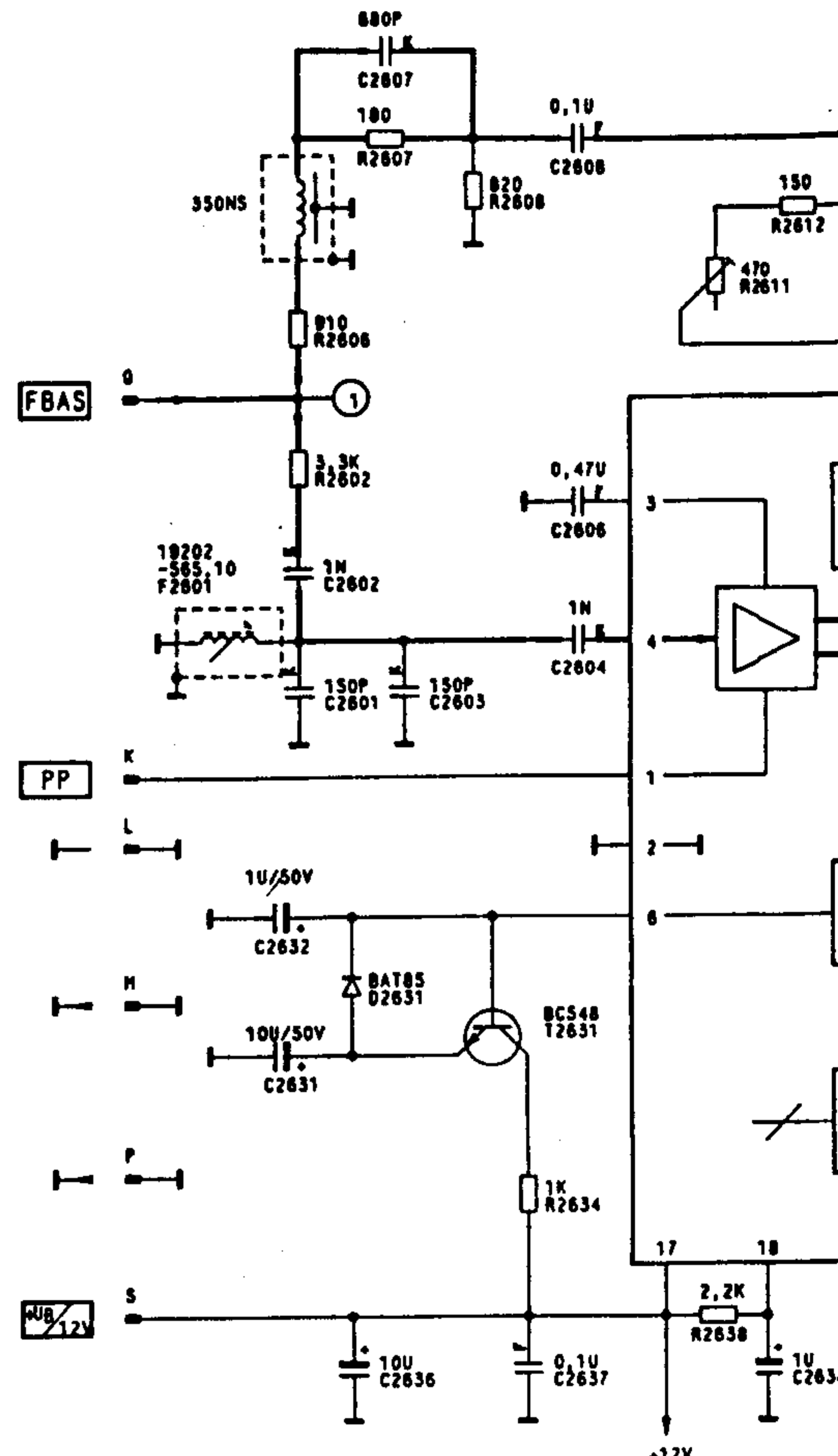
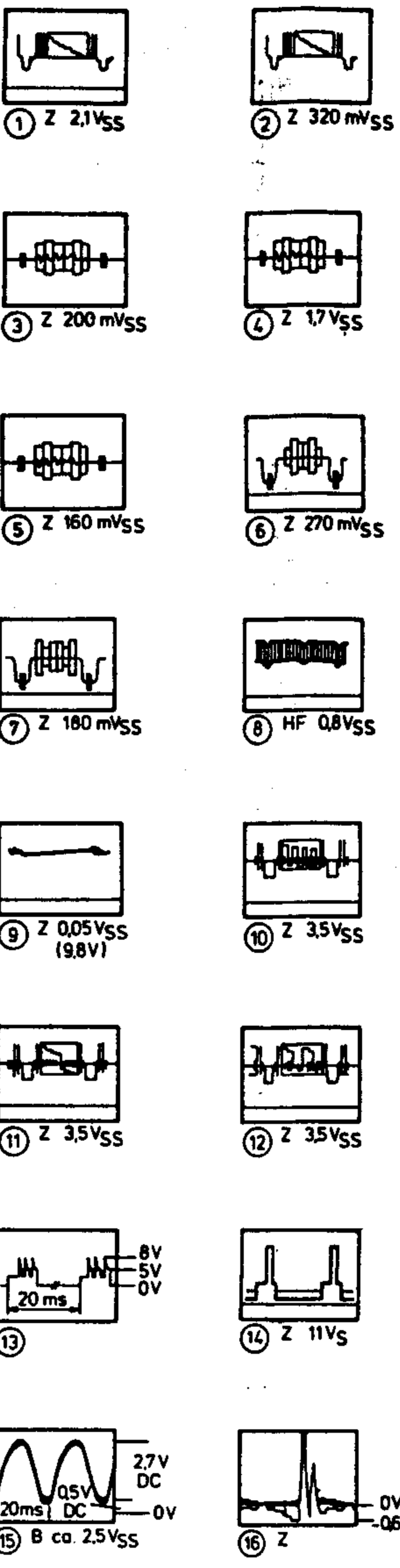
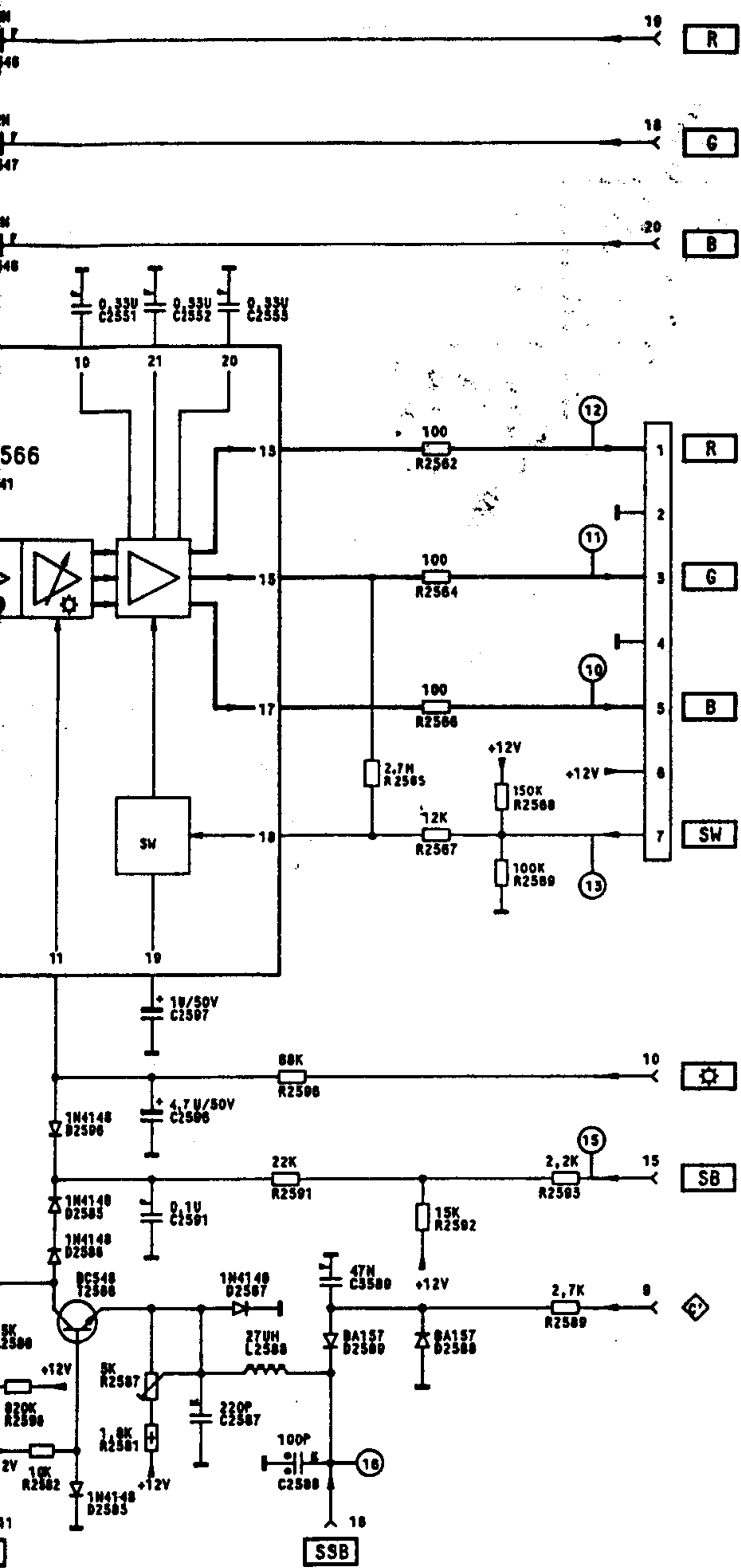


.02 GB
.03 IT

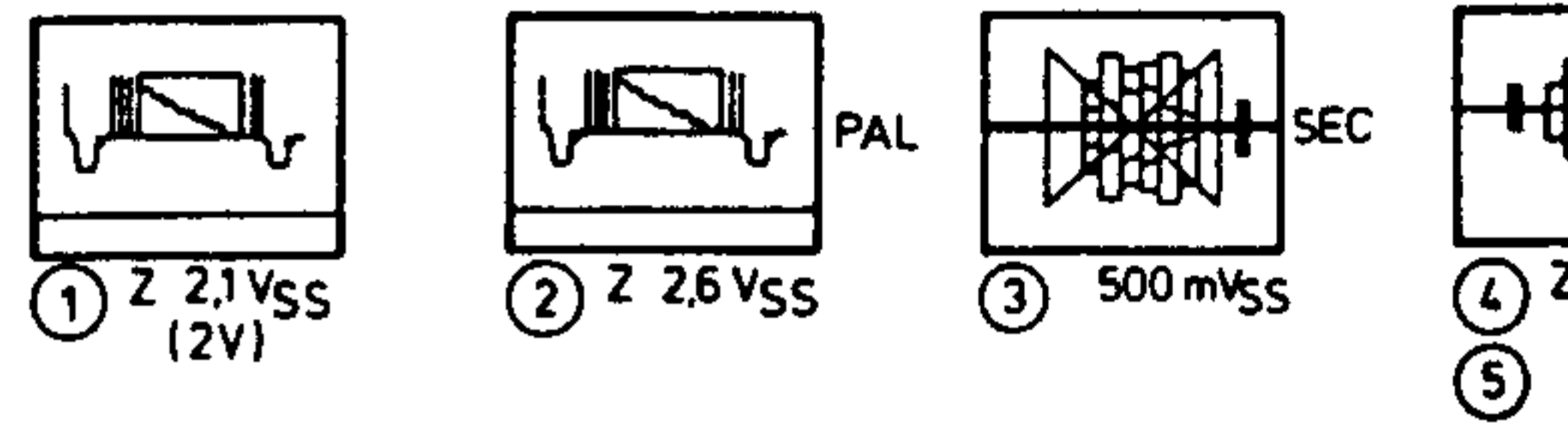


.02 GB
.03 IT





LOETSEITE/SOLDER SIDE/LATO SALDATURE

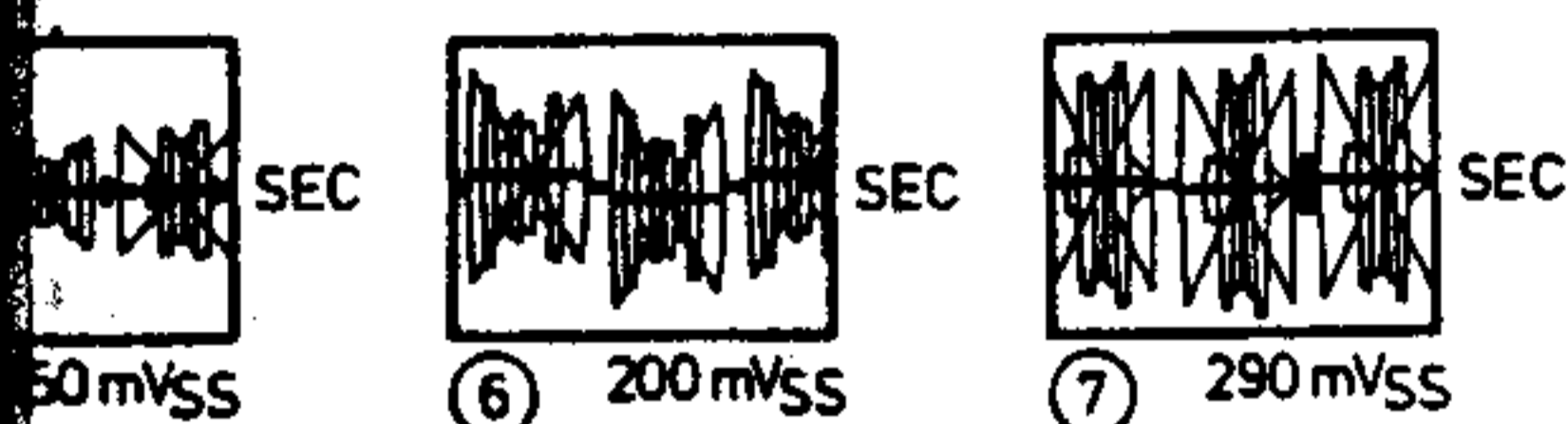
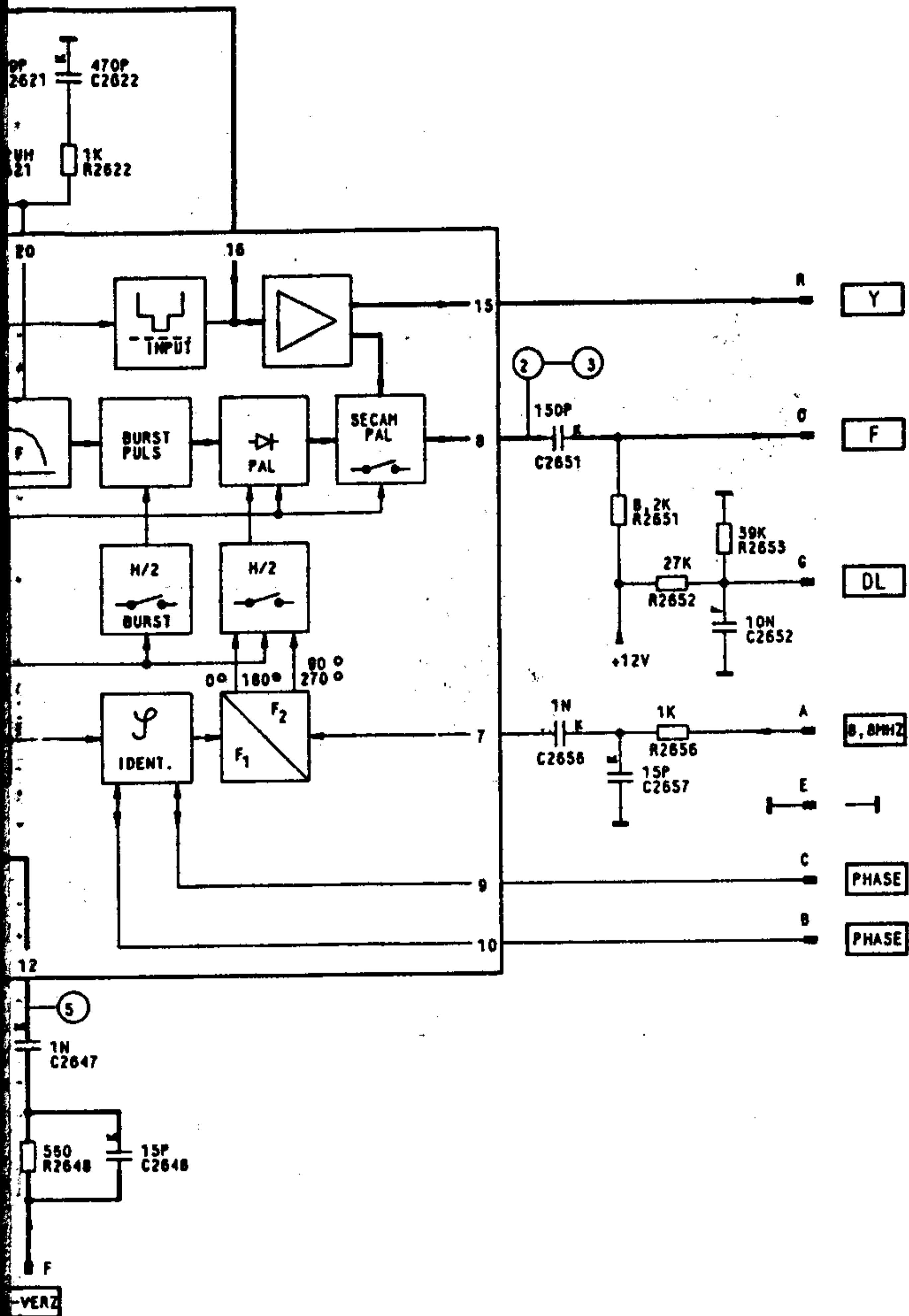


Wird die FARB/RGB-Steckplatze nachgerüstet ist ke

If the colour/RGB board 29504-146.01, no addition

Se la scheda colore/RGB 29504-146.01, non occorre

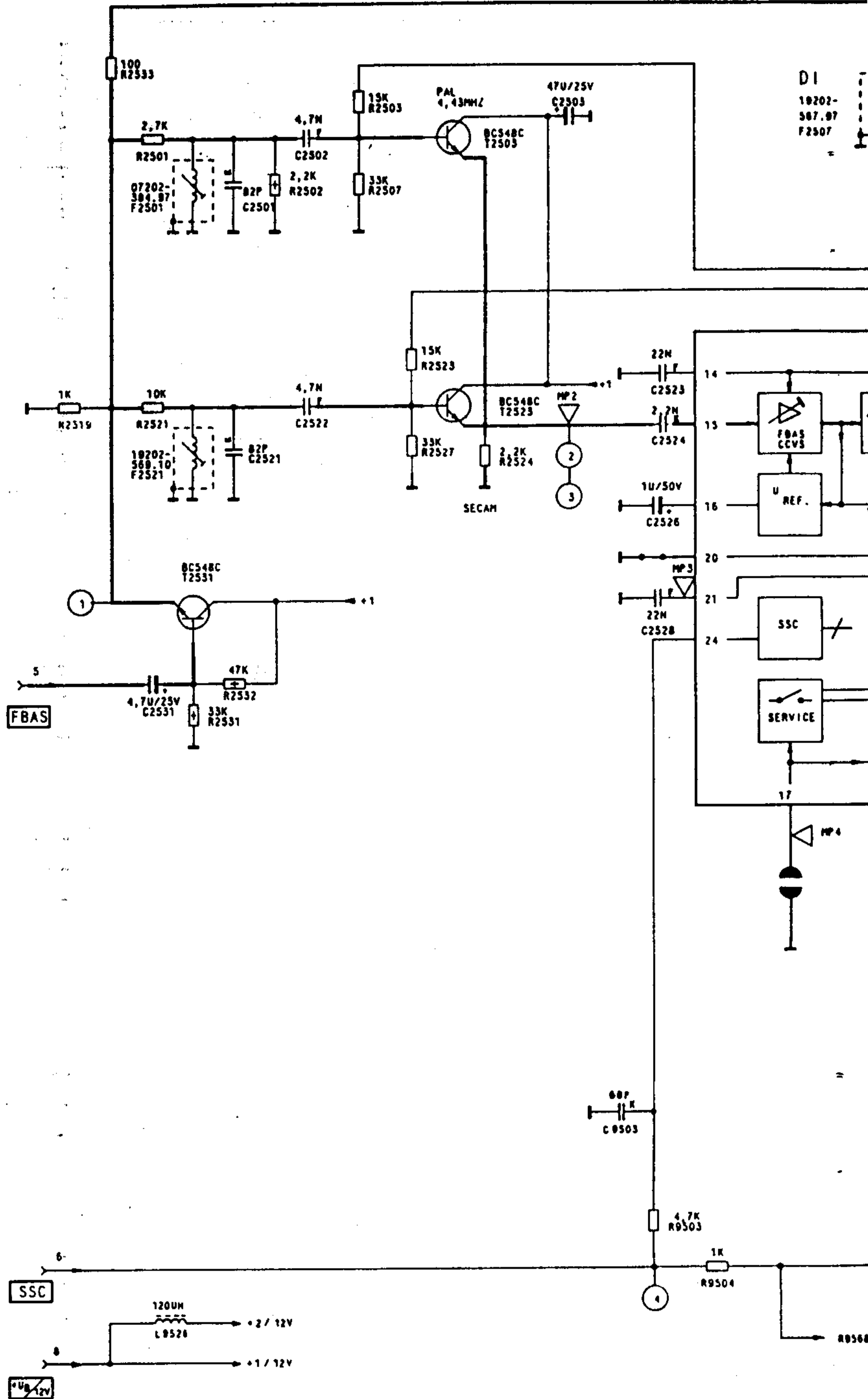
Taratura del bianco
 - Applicare un monoscopio FuBK
 - Regolare \odot al minimo, \circ sul valore nominale e \ominus al massimo.
 - Con VG e VB (piastra cinescopio) eliminare eventuali macchie di colore.
 Taratura del punto di blocco.
 Una regolazione manuale non è possibile, poiché questa scheda incorpora una regolazione automatica della corrente d'interdizione.
 Controllo del punto di blocco (è necessario un oscilloscopio):
 - Applicare un monoscopio FuBK.
 - Regolare \odot al minimo, \circ sul valore nominale e \ominus al minimo.
 - Collegare la sonda al collettori dei transistori T 736, T 756, T 776 (piastra cinescopio).
 Valore nero dei tre segnali catodici ca. 140...150 V.
 Regolazioni dell'oscillatore colore e PAL
 - Applicare un monoscopio FuBK.
 - Regolare \odot , \circ ed \ominus 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.



Transcoder 29504-146.01 auf

the PAL/SECAM Transcoder

on il transcoder PAL/SECAM



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. 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.
 - 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 + 12V 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 Nulllinie des (R-Y)-Signals auf Zeilentastniveau bringen.
 - Tastkopf an Pin 3 vom TDA 4555 anschließen, mit Spule DB Nulllinie 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 pe
 - Set ⓐ to min., ⓑ to nom.
 - Adjust presets VR and VB (colouration)
2. Adjustment of cut-off point

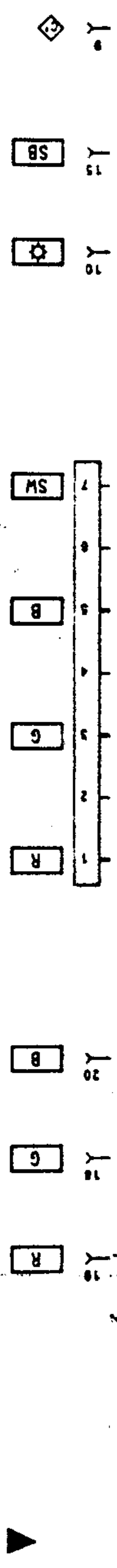
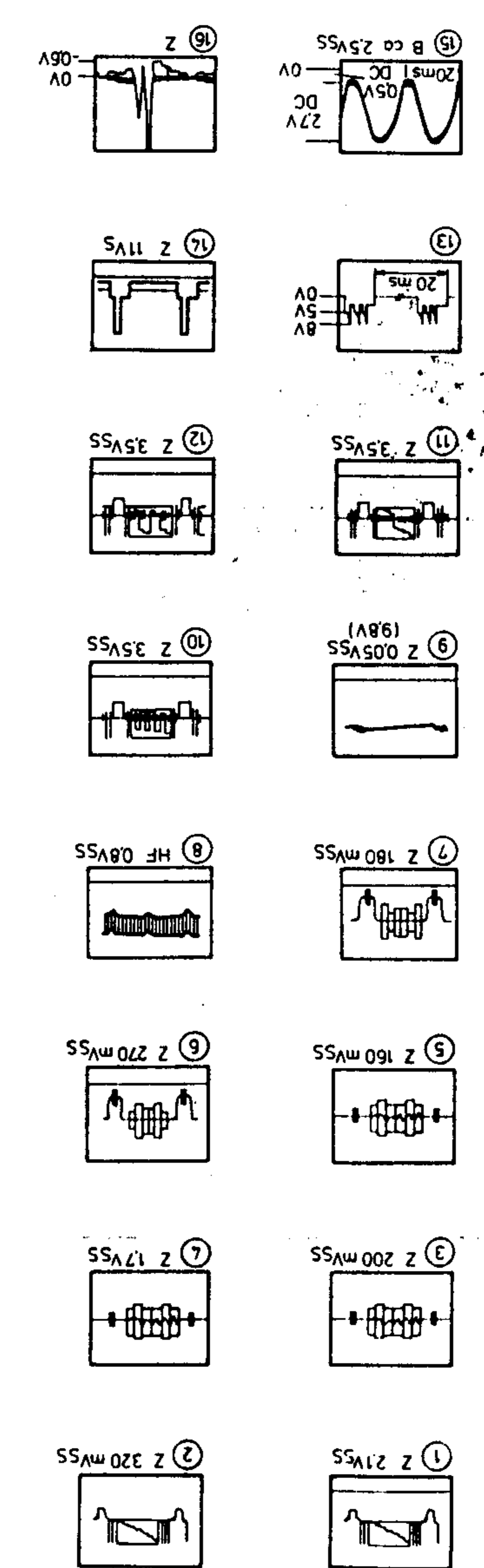
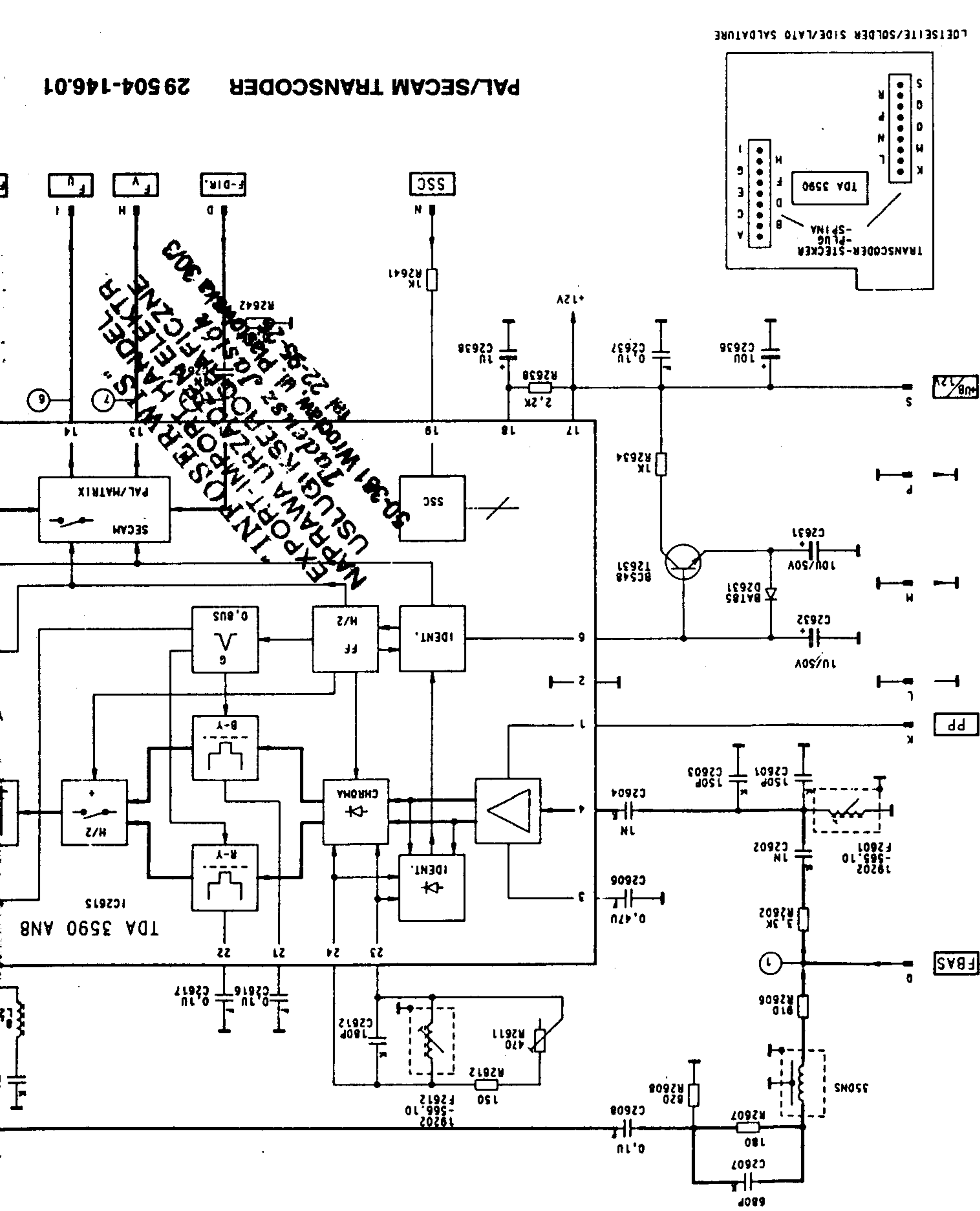
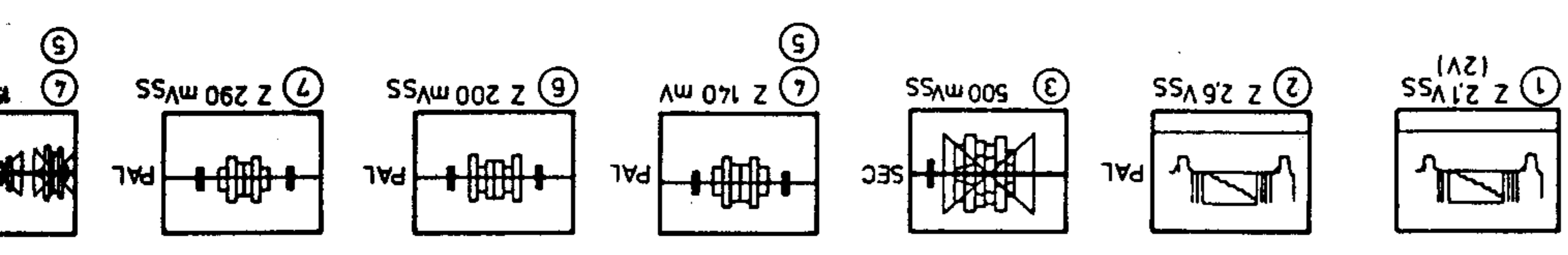
Manual adjustment is not possible due to automatic dark current control circuit.

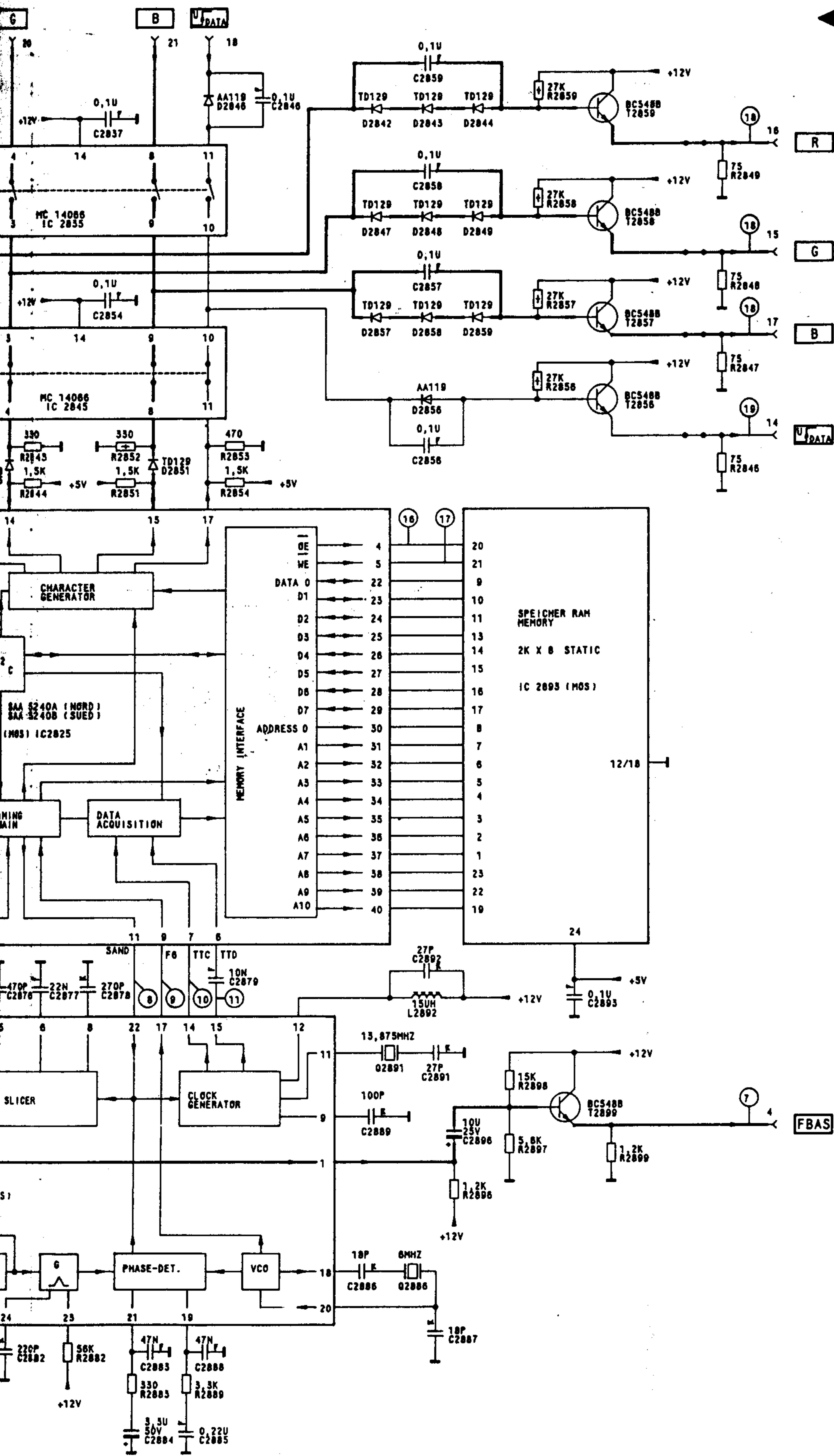
To check cut-off point (oscilloscope required):

 - Display colour bar test pe
 - Set ⓐ to min., ⓑ to nom.
 - Connect test probe to collector of transistors T736, T756, T776 (picture tube). The black levels of the three cathode signals should be ca. 140 ... 150 V.
3. Adjustments in chroma channel
 - Display PAL test pattern.
 - Adjust colour level and brightness.
 - Connect pin 28 of IC TDA 4555 to +12V.
 - Connect pin 17 to IC TDA 4555 to ground.
 - Adjust trimmer C 9516 for vertical bars.
 - Remove wire links.
 - Connect test probe to test point MP12, with control BP and coil LZ the double images of the B signal to coincidence.
 - Display SECAM test pattern.
 - Connect test probe to pin 1 of TDA 4555, with coil DR null line of (R-Y) signal to line blanking level.
 - Use coil DR to align zero.
 - Connect test probe to pin 3 of TDA 4555, with coil DB null line of (B-Y) signal to line blanking level.
 - With coil DB to align zero.
 - Adjust coil F 2521 so that the (B-Y) signal has no overshoot.

4/22

Wird die FARB/RGB-Steckkarte 29504-105.01 durch den PAL/SECAM-
 SECAM nachgerüstet ist kein zusätzlicher Abgleich notwendig.
 If the colour/RGB board 29504-105.01 is converted for SECAM with
 29504-146.01, no additional alignment is necessary.
 Se la scheda colore/RGB 29504-105.01 viene trasformata in SECAM
 29504-146.01, non occorre effettuare nessun'altra taratura.





Anpassungsabgleich der Steckkarte

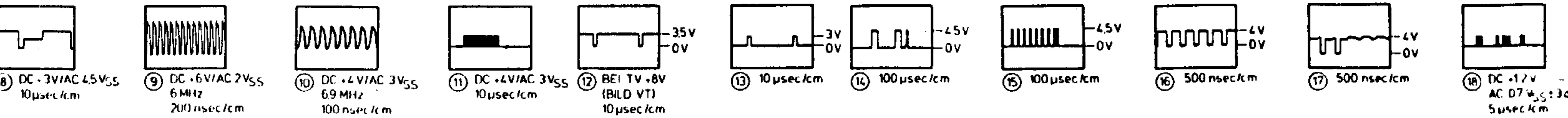
Während des Abgleiches ist es notwendig, die Seite neu anzuwählen, da nur so die Seite neu wird und eine Beurteilung der Fehlerschwelle möglich ist. Der Einsteller R 2867 steht bei Auslieferung auf Link (kleinste Höhenanhebung, ca. 2 dB). Treten trotz freiem Antennensignal Zeichenfehler auf, R 2867 nach rechts verstellen, bis Fehler verschwinden. Nicht drehen, da Fehlerhäufigkeit wieder zunehmen kann. Beim Nachrüsten der Videotext-Steckkarte müssen die gezeichneten *1Ω-Widerstände auf der Chassis-Platte werden.

Matching adjustment of the plug-in board

Page 199 must always be selected anew during the adjustment, as only this effects a new read-in of the page number, possible to evaluate the error level. The control R 2867 is set in the fully anticlockwise position when the unit is delivered (smallest treble boost, ca. 2 dB). If, with a perfect aerial signal character faults occur, R 2867 slowly clockwise until the faults disappear. Do not turn R 2867 up any further as error rate may increase. When fitting the Videotext (GB: Teletext) board, the resistors marked by * on the chassis have to be replaced.

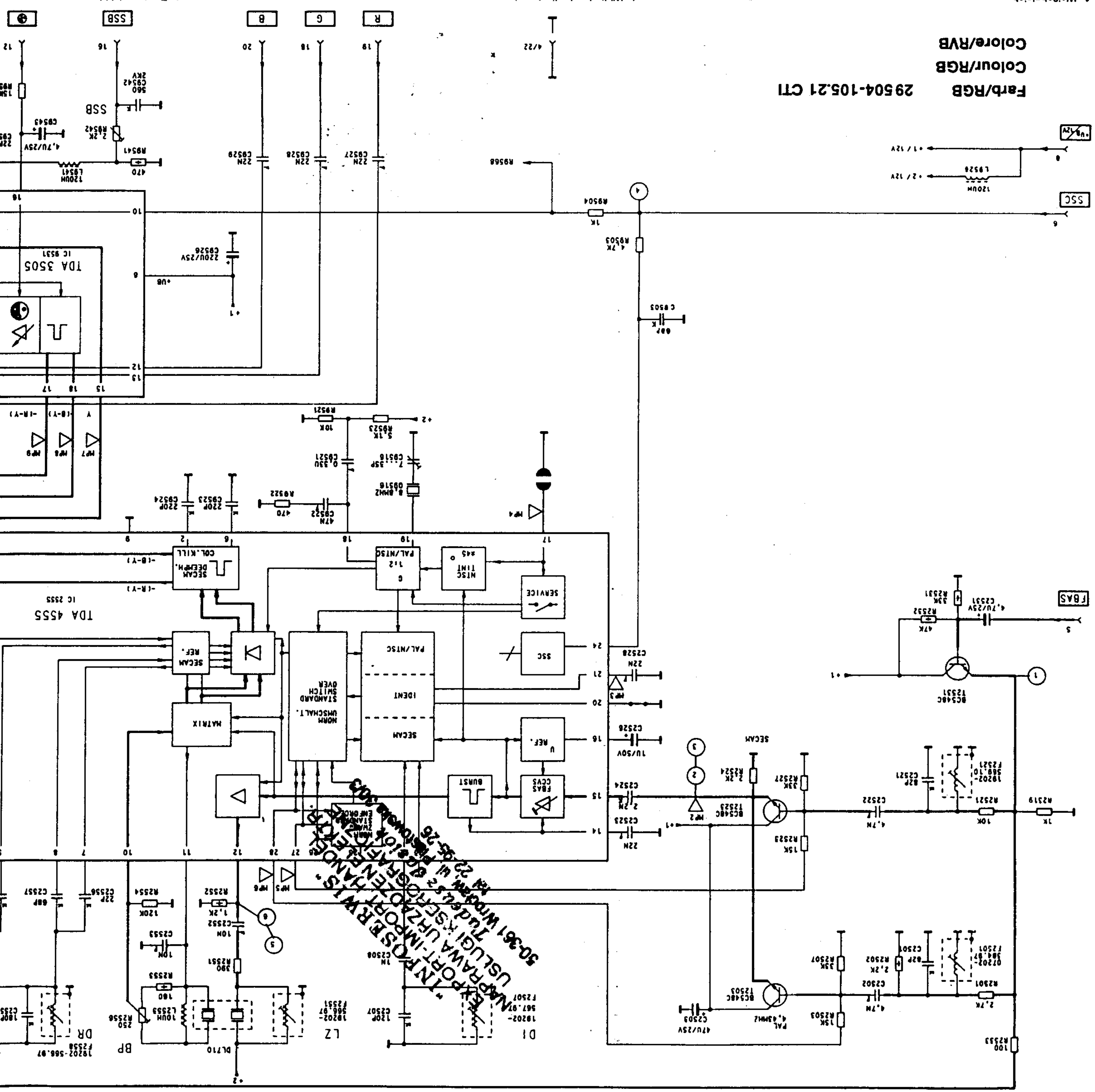
Taratura d'adattamento della scheda ad innesto

Durante la taratura è necessario selezionare ripetutamente la pagina 199, poiché solo così è possibile una nuova lettura della pagina ed una valutazione della soglia di errore. Il regolatore R 2867 viene fornito col cursore girato verso sinistra all'estrema sinistra (minima esaltazione delle alte frequenze, ca. 2 dB). Se si manifestano errori di carattere nonostante un perfetto segnale d'antenna, girare lentamente il cursore di R 2867 verso destra fino ad eliminare gli errori. Non girarlo oltre poiché può riaumentare la presenza di errori. Nel montare la scheda televideo togliere le resistenze contrassegnate con * sul telaio.



Farb/RGB
Colour/RGB
Colore/RVB

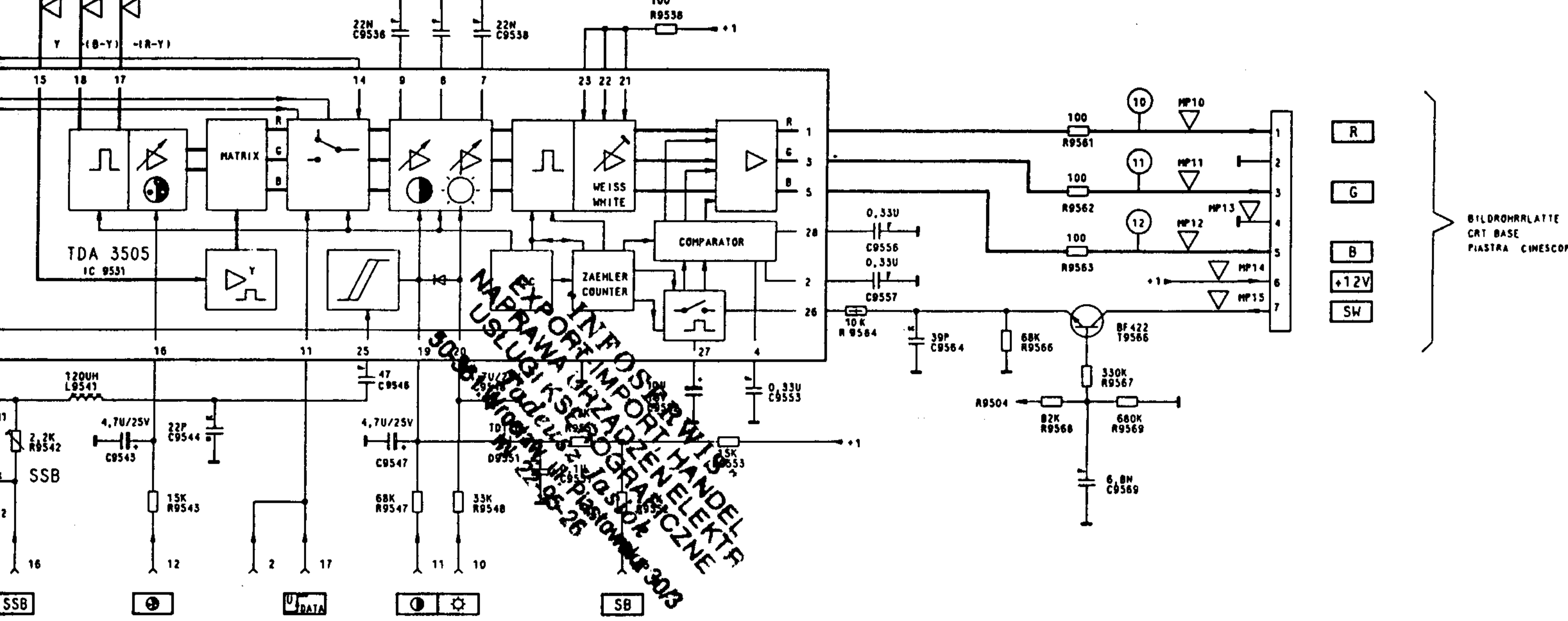
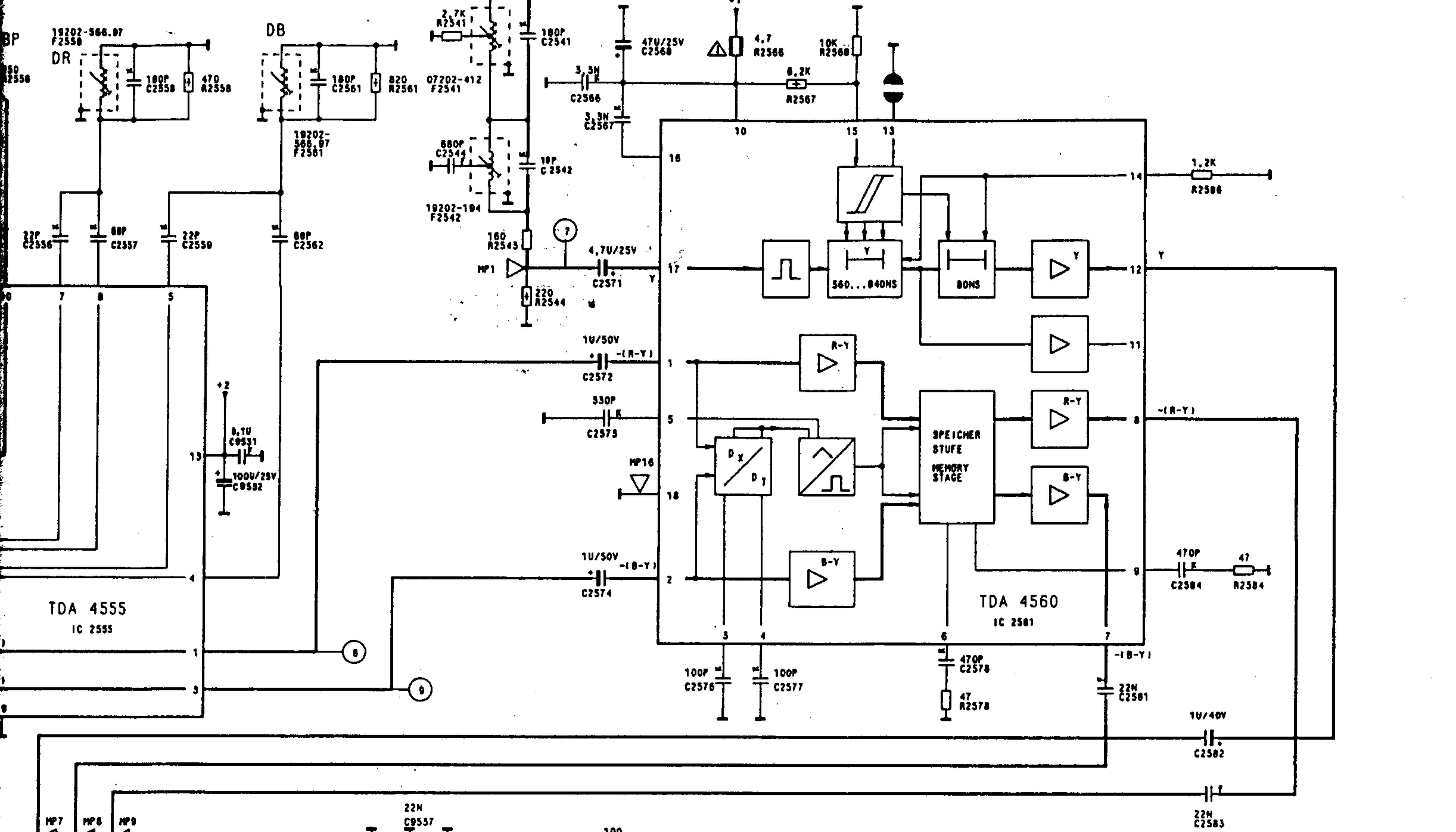
29 504-105.21 CTI



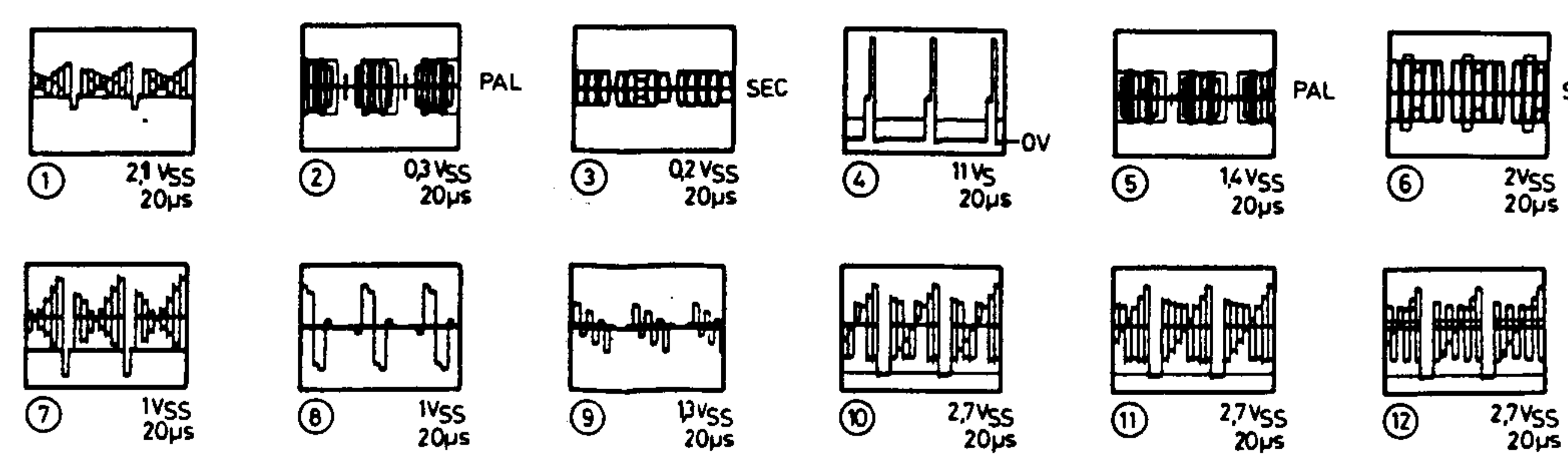
1. Weißabgleich
- FarbK-Testbild einspielen.
- min., max., einstellen.
- Regler VR und VB (Bildrohrplatte) so einstellen, daß keine Verfärbungen in den Grauwerten sichtbar sind.
- Spannungsbildgleich
- Dunklerstromregelung besitzt. Kontrolle des Spennpunkts (Oszilloskop erforderlich).
- FarbK-Testbild einspielen.
- min., max., einstellen.
- Bildrohrplatte. Die Schwarzwerte der drei Kathodensignale liegen bei ca. 140 ... 150 V.
3. Einstellungen im Farbkanal
- PAL-Testbild einspielen.
- 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.
- Deckung bringen.
- SECAM-Testbild einspielen.
- Taskopf an Pin 1 vom TDA 4555 anschließen.
- mit Spule DR Nulllinie des (R-Y)-Signals auf Zeitlastniveau bringen.
- Taskopf an Pin 3 vom TDA 4555 anschließen.
- mit Spule DB Nulllinie des (B-Y)-Signals auf Zeitlastniveau bringen.
- Spule F 2521 so einstellen, daß das (B-Y)-Signal keine Überschwinger hat.

1. White level adjustment
- Display colour bar test pattern.
- Set min., max., 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 min., max., 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 monocoscio FuBK.
- Regolare al minimo, max., sul valore.
- Con VR e VB (piastra cinoscopio).
- Taratura del punto di blocco.
2. Una regolazione manuale non è possibile, in quanto il circuito impiega una regolazione automatica del punto di blocco (controllo della corrente).
- Applicare un monocoscio FuBK.
- Regolare al minimo, max., sul valore.
- Collegare la sonda al collettore del tubo.
- Collegare la sonda al collettore del tubo.
3. Regolazione del canale colore.
- Applicare un monocoscio PAL.
- Regolare FK e H sul valore nominale.
- Sul pin 28 del TDA 4555 collegare.
- Sul pin 17 del TDA 4555 collegare.
- Con il trimmer C 9516 portare le barre colorate in posizione.
- Collegare la sonda al pin 1 del TDA 4555.
- Collegare la sonda al pin 3 del TDA 4555.
- Utilizzare la bobina DR per allineare il segnale (R-Y) con il livello della frequenza di riga.
- Collegare la sonda al pin 1 del TDA 4555.
- Utilizzare la bobina DB per allineare il segnale (B-Y) con il livello della frequenza di riga.
- Utilizzare la bobina F 2521 per eliminare i sovralzo.



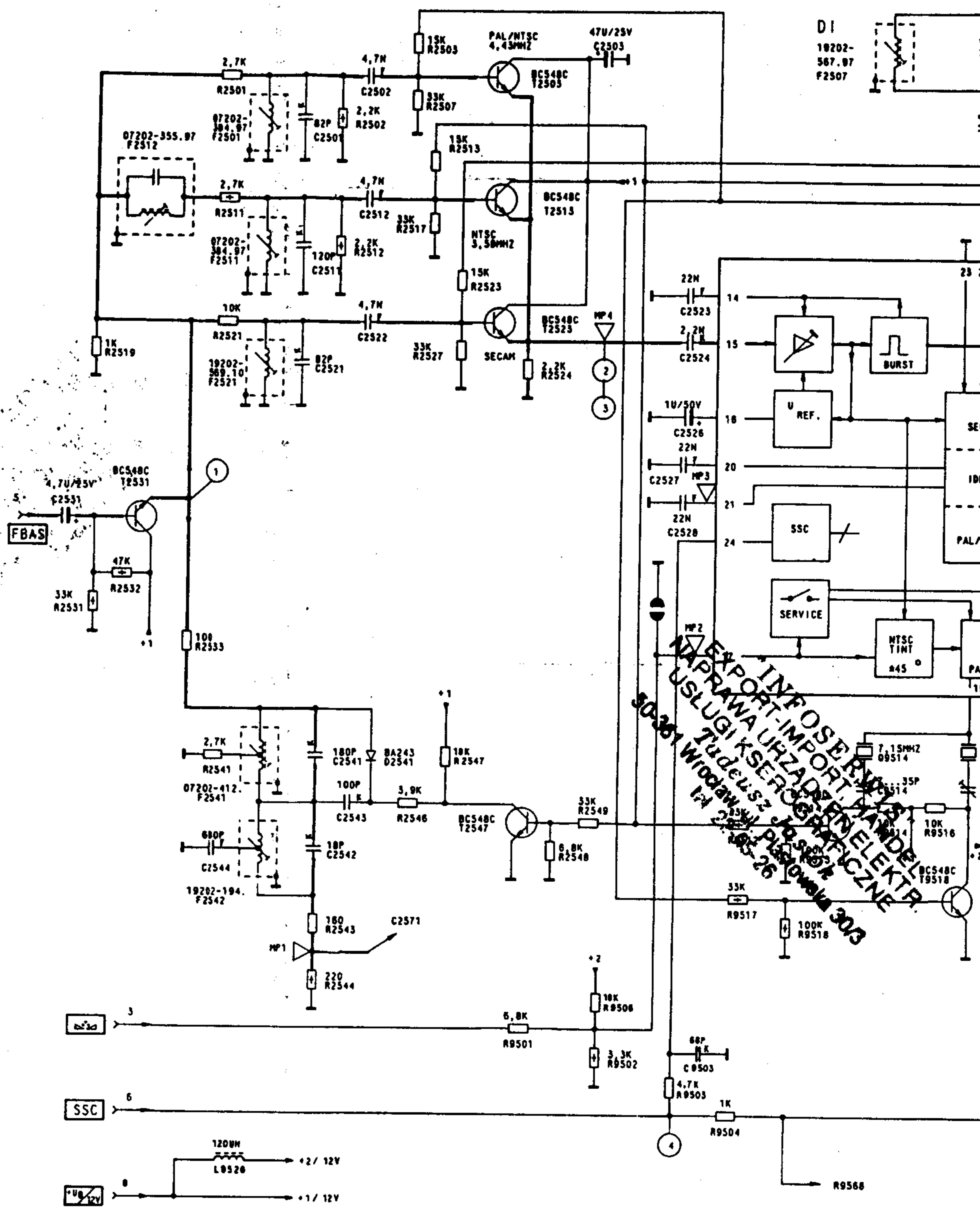
del bianco
 care un monoscopio FuBK
 care al minimo, sul valore nominale e al massimo.
 care R e VB (piastra cinescopio) eliminare eventuali macchie di colore.
 del punto di blocco.
 olazione manuale non è possibile, poichè questa scheda incorpora una
 one automatica della corrente d'interdizione.
 del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



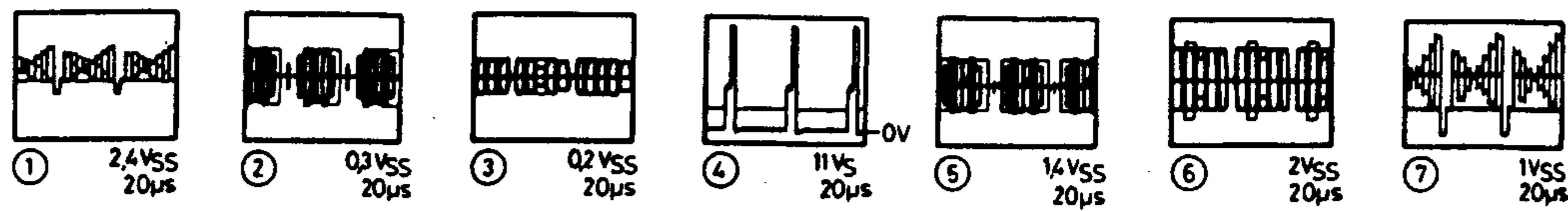
peisen.
 max., einstellen.
 (Bildrohrlatte)-so einstellen, daß keine Verfärbungen in den
 ar sind.
 ung ist nicht möglich, da die Steckkarte eine automatische
 besitzt. Kontrolle des Sperrpunkts (Oszilloskop erforderlich).
 peisen.
 min., einstellen.
 lektoren der Transistoren T736, T756, T776 anhängen
 Schwarzwerte der drei Kathodensignale liegen bei ca.
 Geräte).
 kanal
 isen.
 max. einstellen.
 4555 mit + 12V verbinden.
 4555 mit Masse verbinden.
 die durchlaufenden Farbbalken zum Stehen bringen.
 entfernen.
 mit Regler BP und Spule LZ die Doppelbilder des B-Signals
 en.
 MHz einspeisen.
 4555 mit 12V verbinden.
 4555 mit Masse verbinden.
 die durchlaufenden Farbbalken zum Stehen bringen.
 entfernen.
 speisen.
 m TDA 4555 anschließen,
 ie des (R-Y)-Signals auf Zeilenniveau bringen.
 m TDA 4555 anschließen,
 ie des (B-Y)-Signals auf Zeilentastniveau bringen.
 stellen, daß das (B-Y)-Signal keine Überschwinger hat.

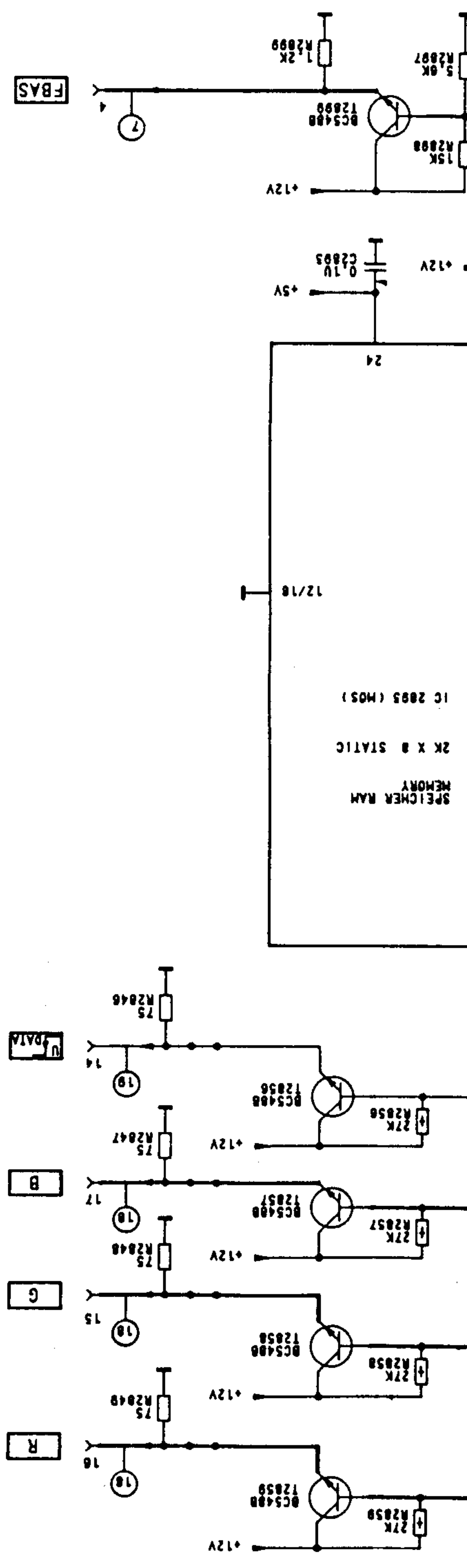
est pattern.
 nom., ① to max.
 and VB (CRT socket board) so that the picture does not show any
 point.
 not possible, as the circuit board employs an automatic dark
 (oscilloscope required), proceed as follows:
 est pattern.
 nom., ① to min.
 to collectors of T736, T756, T776 (CRT socket board).
 the three cathode signals should be 140-150V (26" sets).
 channel.
 tern.
 and brightness to nominal value, contrast to maximum.
 C TDA 4555 to + 12V supply.
 C TDA 4555 to chassis.
 16 for stationary pattern in colour bars.
 to test point MP 12. Bring the double image produced by the
 nce by adjusting the preset BP and the coil LZ.
 C test pattern.
 C TDA 4555 to 12V supply.
 C TDA 4555 to chassis.
 14 for stationary pattern in colour bars.

copio FuBK
 o, ① sul valore nominale e ② al massimo.
 VB (piastra cinescopio) eliminare eventuali macchie di colore.
 occo
 e non è possibile, poiché questa scheda incorpora una
 della corrente d'interdizione.
 locco (è necessario un oscilloscopio):
 copio FuBK.
 p, ① sul valore nominale e ② al minimo.
 collettori dei transistori T736, T756, T776 (piastra cinescopio).
 gnali catodici ca. 140...150 V (apparecchi da 26").
 colore.
 copio PAL.
 valore nominale, K al massimo.
 55 collegare pin 28 a + 12 V.
 55 collegare pin 17 a massa.
 e barre colorate scorrevoli.
 P 12, con il regolatore BP e la bobina LZ portare a copertura le
 segnale B.
 copio NTSC 3,5 MHz.
 55 collegare pin 26 a 12 V.
 55 collegare pin 17 a massa.
 e barre colorate scorrevoli.
 copio SECAM.
 pin 1 dell'integrato TDA 4555,
 tare la linea zero del segnale (R-Y) sul
 di riga.
 pin 3 dell'integrato TDA 4555,
 tare la linea zero del segnale (B-Y) sul
 di riga.
 icarla così in modo che il segnale (B-Y) sia chiaro.



Farb/RGB 29504-165.01 MULTI
Colour/RGB
Colore/RVB



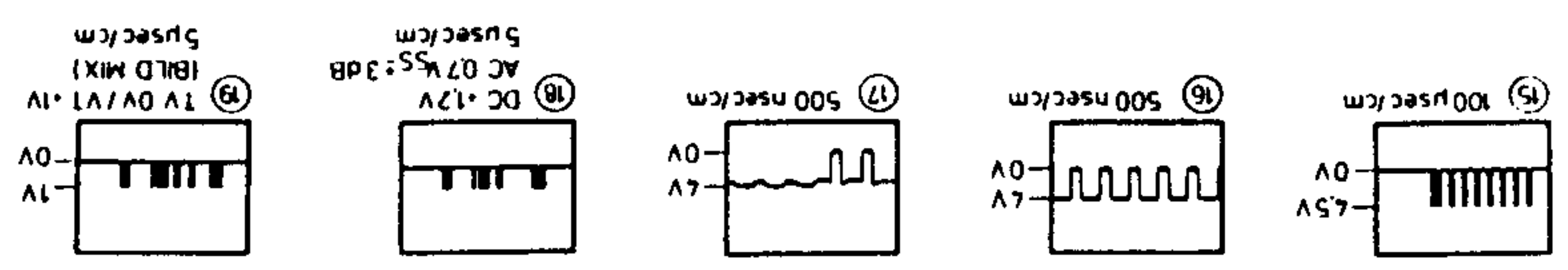


Anpassungsabgleich der Steckkarte

Während des Abgleiches ist es notwendig, die Seite 199 ständig neu anzuwählen, da nur so die Seite neu eingelesen wird und eine Beurteilung der Fehlerschwelle möglich ist. Der Einsteller R 2867 steht bei Auslieferung auf Linksanschlag (kleinste Höhenanhebung, ca. 2 dB). Treten trotz einwandfreiem Antennensignal Zeichenfehler auf, R 2867 langsam nach rechts verschieben, bis Fehler verschwinden. Nicht weiterdrehen, da Fehlerhäufigkeit wieder zunehmen kann. Beim Nachrüsten der Videotext-Steckkarte müssen die gekennzeichneten *1Ω-Widerstände auf der Chassis-Platte entfernt werden.

Matching adjustment of the plug-in board
 Page 199 must always be selected when adjusting the adjustment, as only this effects a new read-in of the page making it possible to evaluate the error level. The control R 2867 is set in the factory at the left position (smallest aerial signal character level, approx. 2 dB). If, with a perfect aerial signal character level, errors occur, R 2867 slowly clockwise until the faults disappear. Do not turn R 2867 up any further as error rate may increase again. When fitting the Videotext (GB: Teletext) board, the 1-ohm resistors marked by * on the chassis have to be removed.

Taratura d'adattamento della scheda ad innesto
 Durante la taratura è necessario selezionare ripetutamente la pagina 199, poiché solo così è possibile una nuova immissione della pagina ed una valutazione della soglia degli errori. Il regolatore R 2867 viene fornito col cursore girato completamente all'estrema sinistra (minima esaltazione delle alte frequenze, ca. 2 dB). Se si manifestano errori di carattere, nonostante un perfetto segnale d'antenna, girare lentamente il cursore di R 2867 verso destra fino ad eliminare gli errori. Non girare oltre poiché può riumentare la presenza degli errori. Nel montare la scheda teletexto togliere le resistenze da 1 Ω contrassegnate con * sul telaio.



1. Weißabgleich

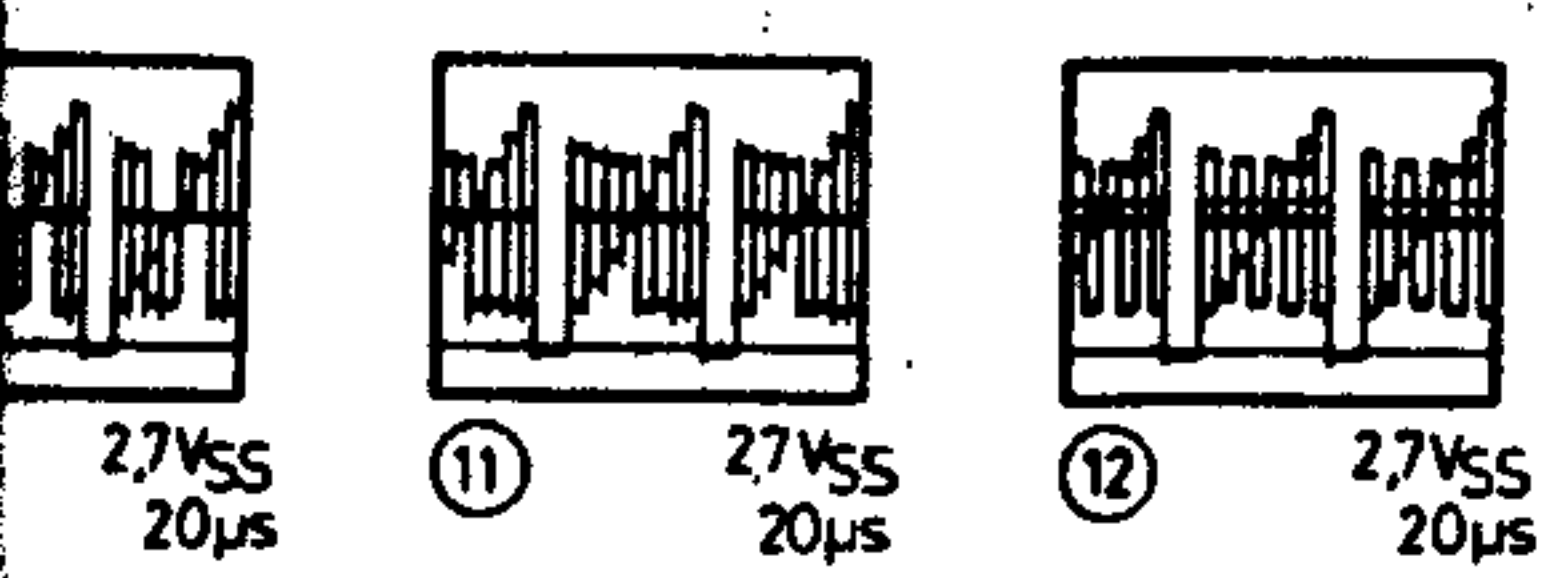
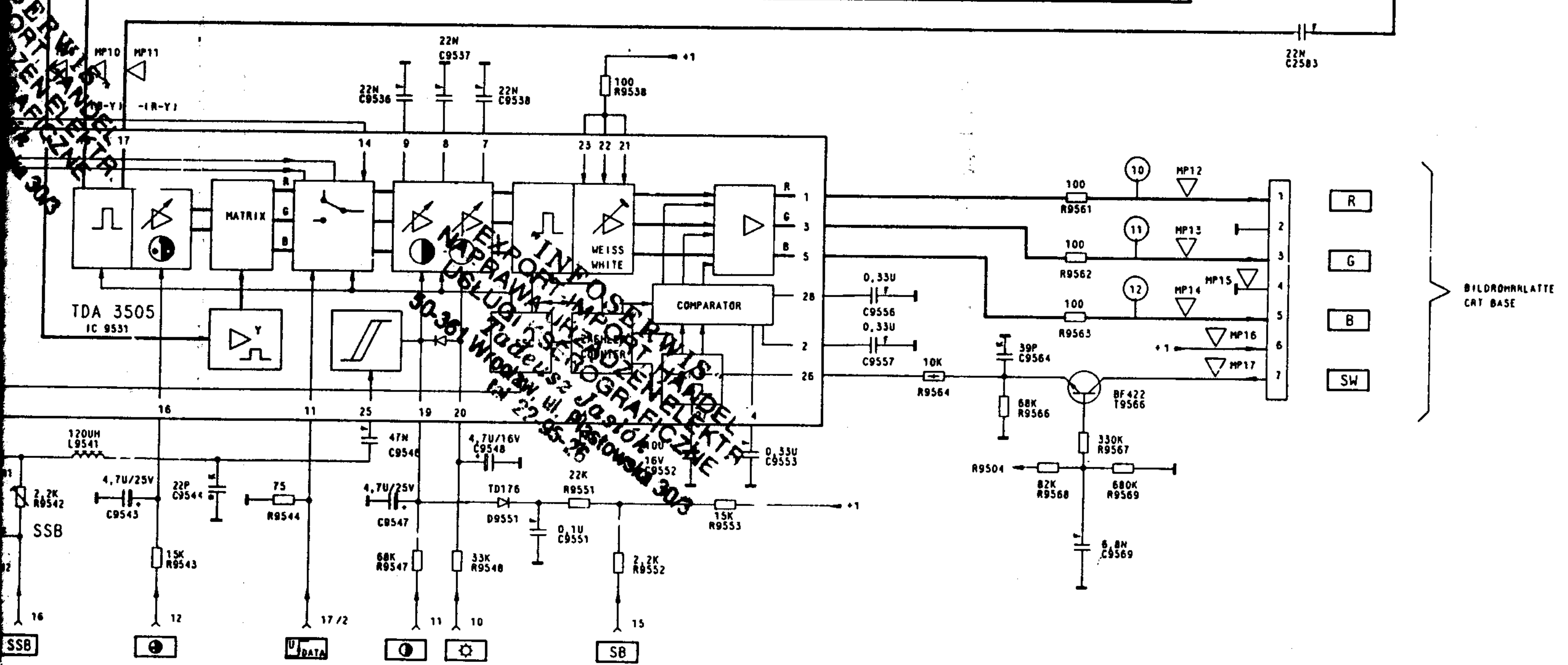
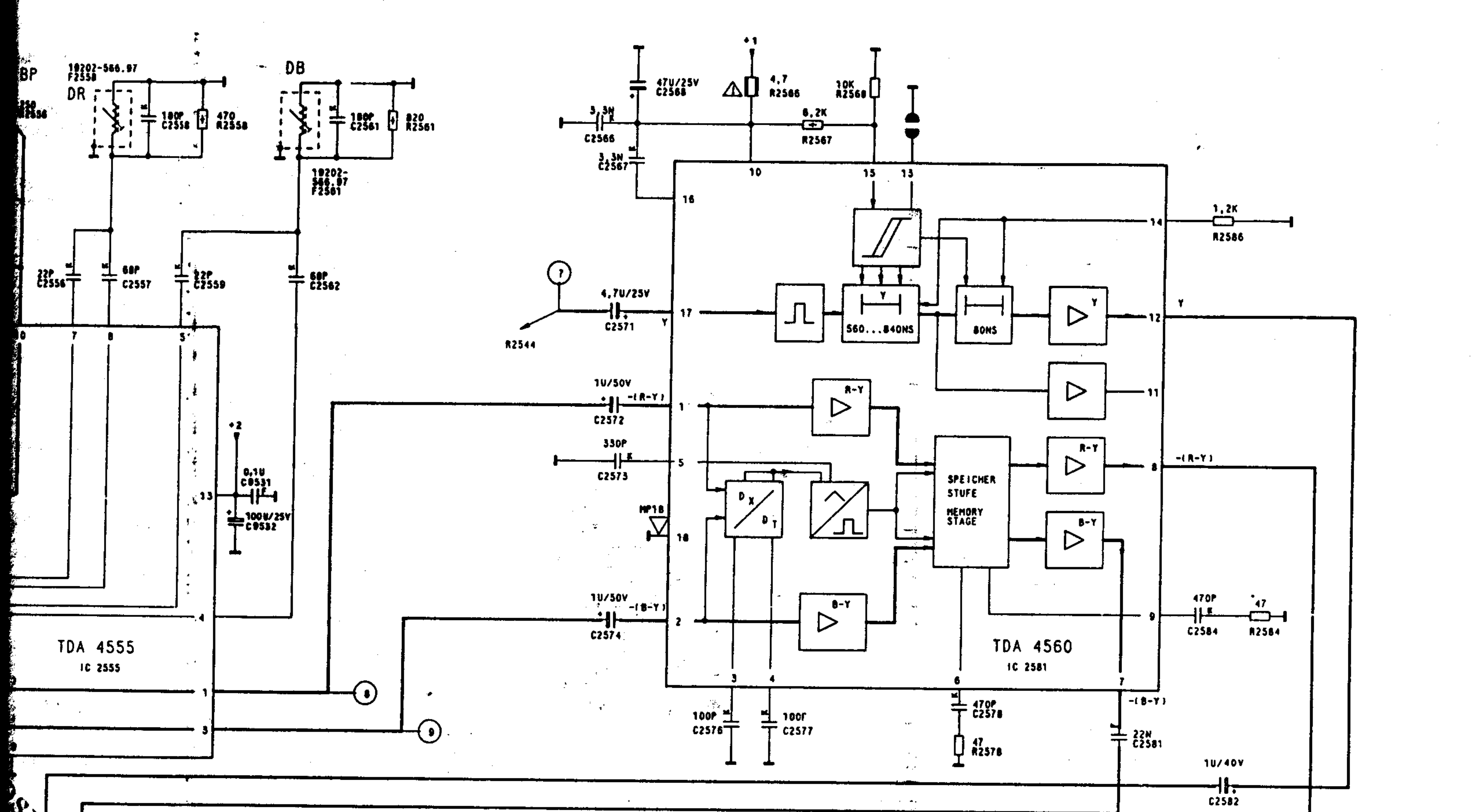
- FuBK-Testbild einspielen.
- Regler VR und VB (Bildrohrplatte)-so einstellen, dass die Bildschwarzwerte der drei Grauwerten sichtbar sind.
- 2. Sperrnacktabgleich
- Eine manuelle Einstellung ist nicht möglich, die Dunkelstromregelung besitzt Kontrolle des Sperrnacktestbildes.
- FuBK-Testbild einspielen.
- min., max., einstellen.
- Regler VR und VB (Bildrohrplatte)-so einstellen, dass die Bildschwarzwerte der drei Grauwerten sichtbar sind.
- 3. Einstellungen im Farbkanal
- 140 ... 150 V (26"-Geräte).
- Einstellen im Farbkanal
- PAL-Testbild einspielen.
- 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 Farbkurven einjustieren.
- Kurzschlussbuckeln entfernen.
- Tastkopf an MP 12, mit Regler BP und Spule zur Deckung bringen.
- NTSC-Testbild 3,5 MHz einspielen.
- 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 Farbkurven einjustieren.
- Kurzschlussbuckeln entfernen.
- Tastkopf an Pin 1 vom TDA 4555 anschließen
- Tastkopf an Pin 3 vom TDA 4555 anschließen
- mit Spule DB Nulllinie des (B-Y)-Signals auf
- mit Spule DR Nulllinie des (R-Y)-Signals auf
- Display-Testbild einspielen.
- Display colour bar test pattern.
- Set min., max., to min., to max.
- Adjust presets VR and VB (CRT socket board colouration).
- 2. 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 min., max., to min., to max.
- Connect test probe to collectors of T736, T737, T738, T739, T740, T741, T742, T743, T744, T745, T746, T747, T748, T749, T750, T751, T752, T753, T754, T755, T756, T757, T758, T759, T760, T761, T762, T763, T764, T765, T766, T767, T768, T769, T770, T771, T772, T773, T774, T775, T776, T777, T778, T779, T780, T781, T782, T783, T784, T785, T786, T787, T788, T789, T790, T791, T792, T793, T794, T795, T796, T797, T798, T799, T800, T801, T802, T803, T804, T805, T806, T807, T808, T809, T810, T811, T812, T813, T814, T815, T816, T817, T818, T819, T820, T821, T822, T823, T824, T825, T826, T827, T828, T829, T830, T831, T832, T833, T834, T835, T836, T837, T838, T839, T840, T841, T842, T843, T844, T845, T846, T847, T848, T849, T850, T851, T852, T853, T854, T855, T856, T857, T858, T859, T860, T861, T862, T863, T864, T865, T866, T867, T868, T869, T870, T871, T872, T873, T874, T875, T876, T877, T878, T879, T880, T881, T882, T883, T884, T885, T886, T887, T888, T889, T890, T891, T892, T893, T894, T895, T896, T897, T898, T899, T900, T901, T902, T903, T904, T905, T906, T907, T908, T909, T910, T911, T912, T913, T914, T915, T916, T917, T918, T919, T920, T921, T922, T923, T924, T925, T926, T927, T928, T929, T930, T931, T932, T933, T934, T935, T936, T937, T938, T939, T940, T941, T942, T943, T944, T945, T946, T947, T948, T949, T950, T951, T952, T953, T954, T955, T956, T957, T958, T959, T960, T961, T962, T963, T964, T965, T966, T967, T968, T969, T970, T971, T972, T973, T974, T975, T976, T977, T978, T979, T980, T981, T982, T983, T984, T985, T986, T987, T988, T989, T990, T991, T992, T993, T994, T995, T996, T997, T998, T999, T1000.

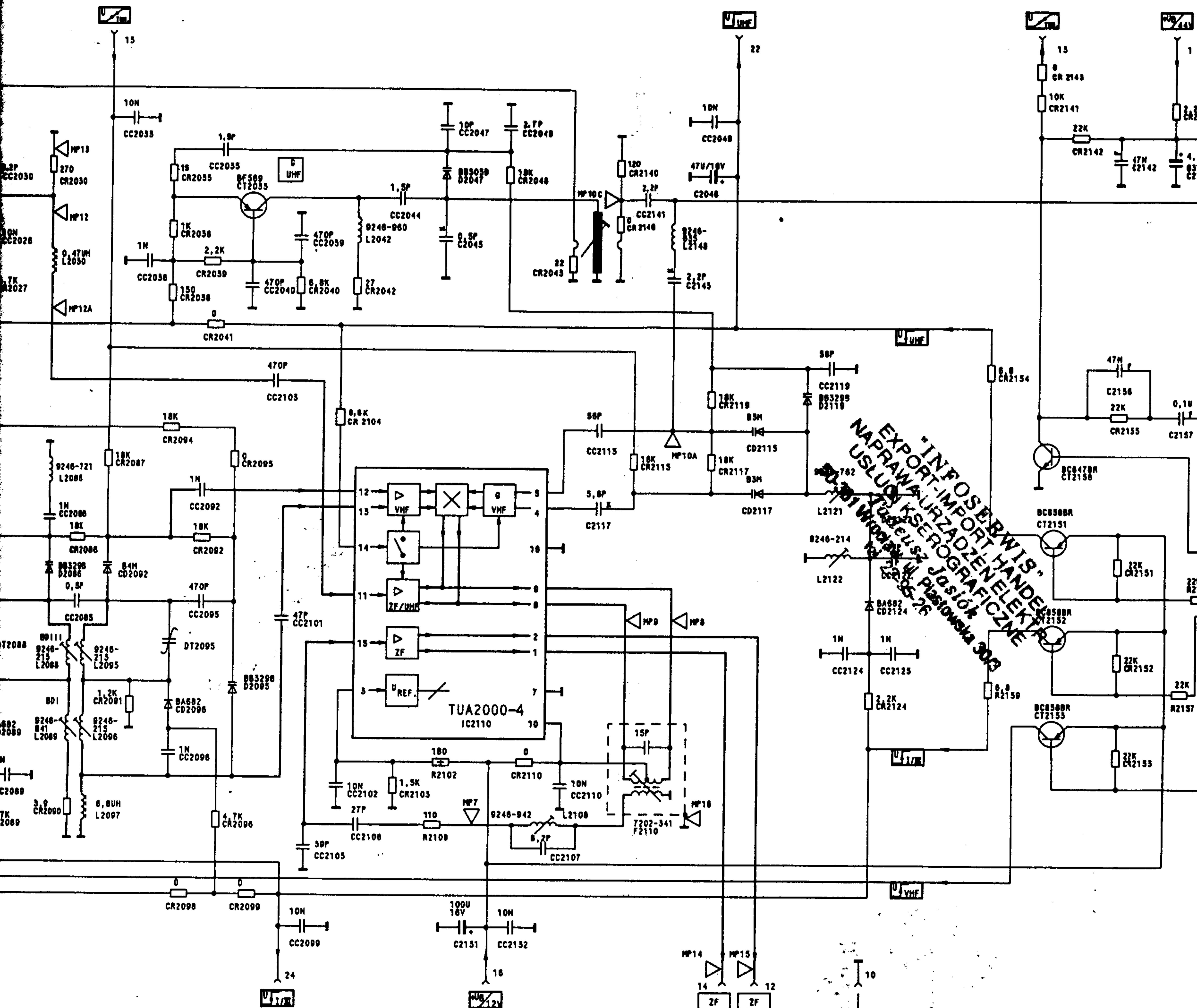
1. White level adjustment

- Display level adjustment
- Display colour bar test pattern.
- Set min., max., to min., to max.
- Adjust presets VR and VB (CRT socket board colouration).
- 2. 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 min., max., to min., to max.
- Connect test probe to collectors of T736, T737, T738, T739, T740, T741, T742, T743, T744, T745, T746, T747, T748, T749, T750, T751, T752, T753, T754, T755, T756, T757, T758, T759, T760, T761, T762, T763, T764, T765, T766, T767, T768, T769, T770, T771, T772, T773, T774, T775, T776, T777, T778, T779, T780, T781, T782, T783, T784, T785, T786, T787, T788, T789, T790, T791, T792, T793, T794, T795, T796, T797, T798, T799, T800, T801, T802, T803, T804, T805, T806, T807, T808, T809, T810, T811, T812, T813, T814, T815, T816, T817, T818, T819, T820, T821, T822, T823, T824, T825, T826, T827, T828, T829, T830, T831, T832, T833, T834, T835, T836, T837, T838, T839, T840, T841, T842, T843, T844, T845, T846, T847, T848, T849, T850, T851, T852, T853, T854, T855, T856, T857, T858, T859, T860, T861, T862, T863, T864, T865, T866, T867, T868, T869, T870, T871, T872, T873, T874, T875, T876, T877, T878, T879, T880, T881, T882, T883, T884, T885, T886, T887, T888, T889, T890, T891, T892, T893, T894, T895, T896, T897, T898, T899, T900, T901, T902, T903, T904, T905, T906, T907, T908, T909, T910, T911, T912, T913, T914, T915, T916, T917, T918, T919, T920, T921, T922, T923, T924, T925, T926, T927, T928, T929, T930, T931, T932, T933, T934, T935, T936, T937, T938, T939, T940, T941, T942, T943, T944, T945, T946, T947, T948, T949, T950, T951, T952, T953, T954, T955, T956, T957, T958, T959, T960, T961, T962, T963, T964, T965, T966, T967, T968, T969, T970, T971, T972, T973, T974, T975, T976, T977, T978, T979, T980, T981, T982, T983, T984, T985, T986, T987, T988, T989, T990, T991, T992, T993, T994, T995, T996, T997, T998, T999, T1000.

1. Taratura del bianco

- Applicare un monocoscio FuBK
- Regolare VR e VB (piastrina cinescopio) al minimo, al valore nominale
- Con i regolatori VR e VB (piastrina cinescopio) e Taratura del punto di blocco
- Una regolazione manuale non è possibile, poiché la regolazione automatica della corrente d'intensità regola il punto di blocco (è necessario un controllo del punto di blocco)
- Applicare un monocoscio FuBK
- 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
- Immaginare i doppi del segnale B
- Applicare un monocoscio 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 monocoscio SECAM
- Collegare la sonda al pin 1 dell'integrato TDA 4555
- con la bobina DR portare la linea zero del segnale della frequenza di riga
- Collegare la sonda al pin 3 dell'integrato TDA 4555
- con la bobina DB portare la linea zero del segnale della frequenza di riga
- La bobina F 2521 applicare così in modo che il livello della frequenza di riga.





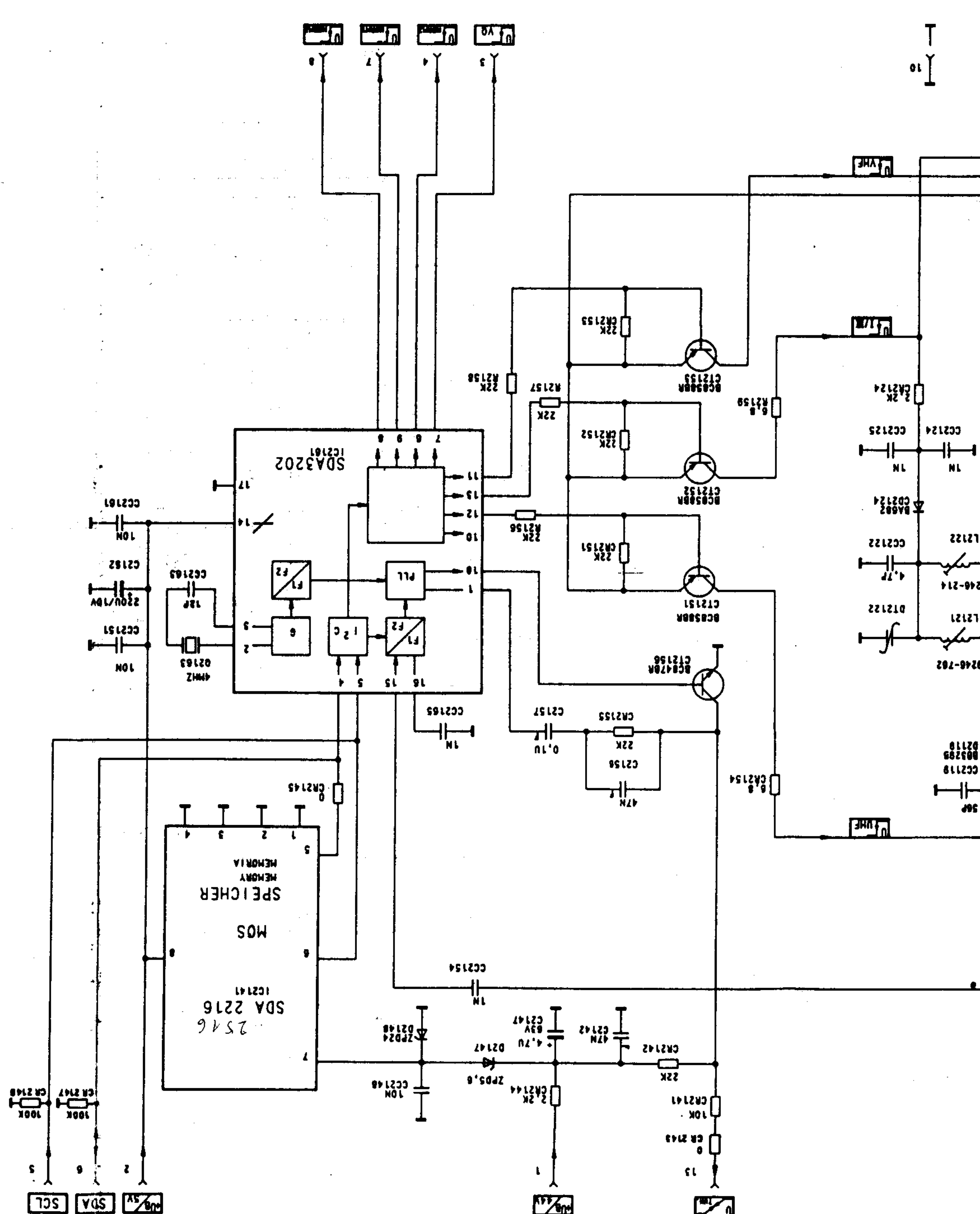
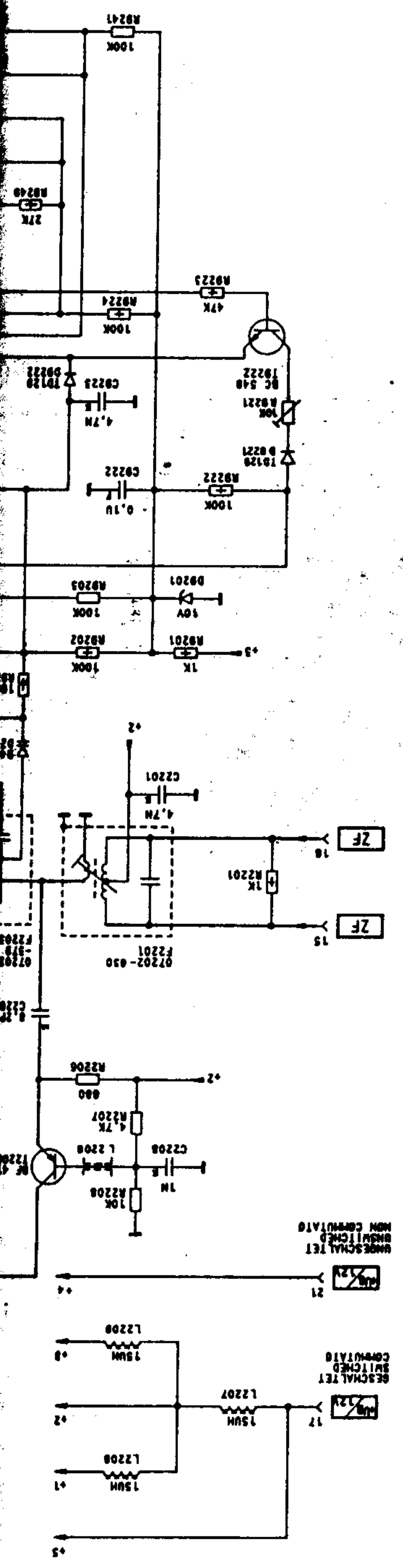
Kabeltuner 29504-101.01

Cable TV Tuner

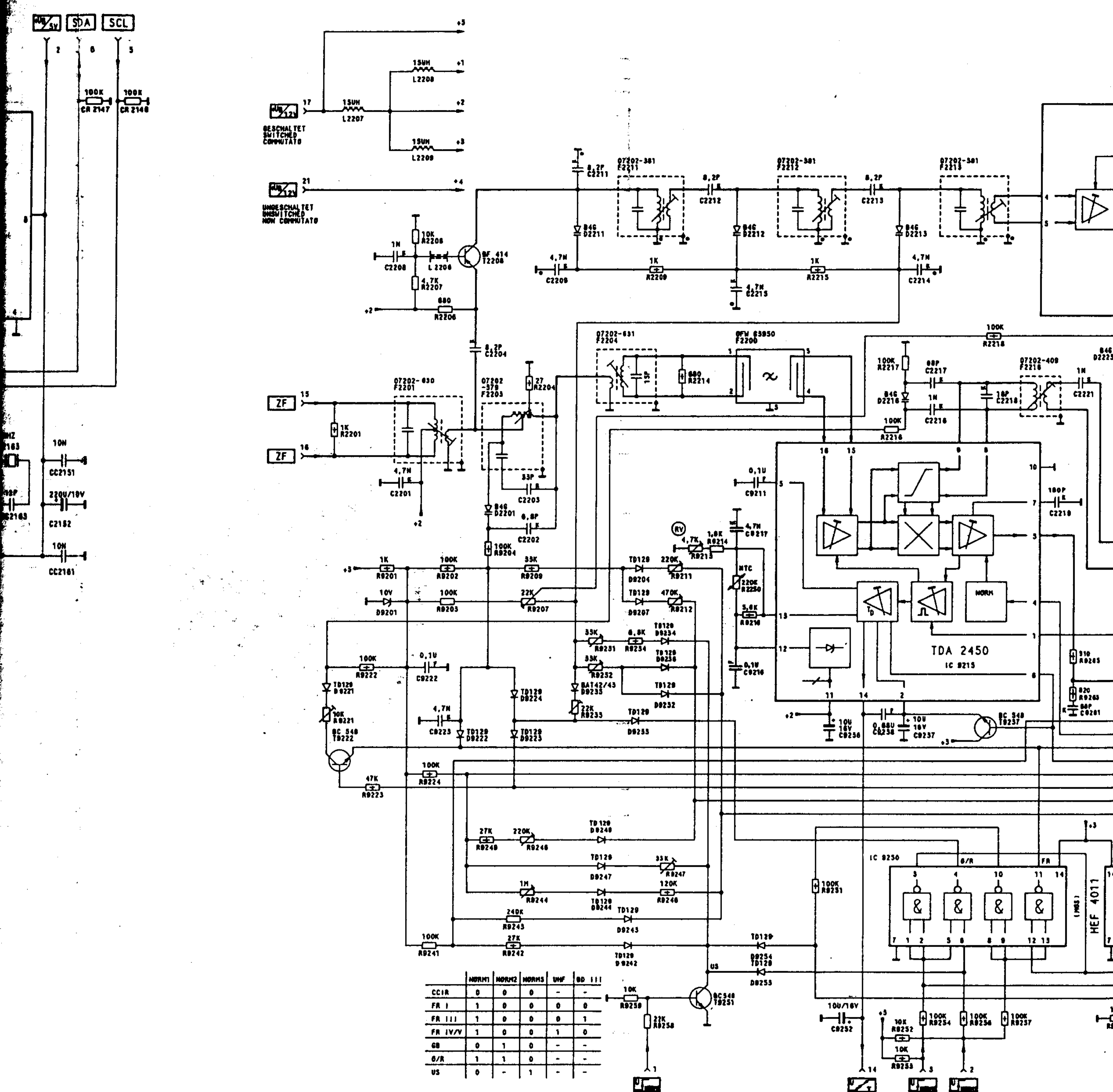
Tuner TV cavo

Kein Anpassungsbedarf bei Austausch
 When replacing the plug-in board, no adjustment is necessary
 sostituzione di una scheda ad innesto

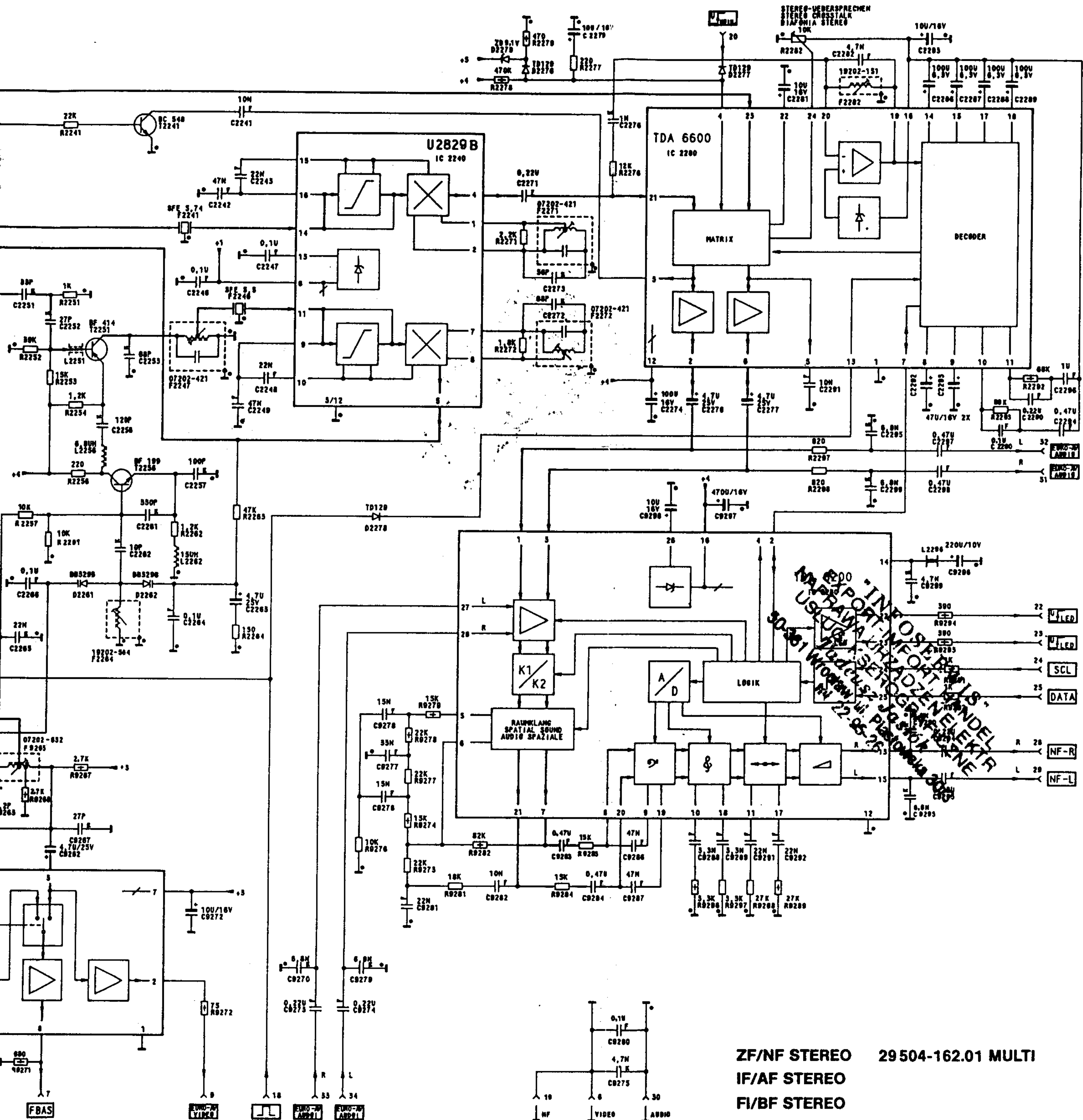
| | |
|------------|---|
| NUMERO | 0 |
| CC18 | 0 |
| FR 1 | 1 |
| FR 111 | 1 |
| FR 111/1 | 1 |
| FR 111/2 | 1 |
| FR 111/3 | 1 |
| FR 111/4 | 1 |
| FR 111/5 | 1 |
| FR 111/6 | 1 |
| FR 111/7 | 1 |
| FR 111/8 | 1 |
| FR 111/9 | 1 |
| FR 111/10 | 1 |
| FR 111/11 | 1 |
| FR 111/12 | 1 |
| FR 111/13 | 1 |
| FR 111/14 | 1 |
| FR 111/15 | 1 |
| FR 111/16 | 1 |
| FR 111/17 | 1 |
| FR 111/18 | 1 |
| FR 111/19 | 1 |
| FR 111/20 | 1 |
| FR 111/21 | 1 |
| FR 111/22 | 1 |
| FR 111/23 | 1 |
| FR 111/24 | 1 |
| FR 111/25 | 1 |
| FR 111/26 | 1 |
| FR 111/27 | 1 |
| FR 111/28 | 1 |
| FR 111/29 | 1 |
| FR 111/30 | 1 |
| FR 111/31 | 1 |
| FR 111/32 | 1 |
| FR 111/33 | 1 |
| FR 111/34 | 1 |
| FR 111/35 | 1 |
| FR 111/36 | 1 |
| FR 111/37 | 1 |
| FR 111/38 | 1 |
| FR 111/39 | 1 |
| FR 111/40 | 1 |
| FR 111/41 | 1 |
| FR 111/42 | 1 |
| FR 111/43 | 1 |
| FR 111/44 | 1 |
| FR 111/45 | 1 |
| FR 111/46 | 1 |
| FR 111/47 | 1 |
| FR 111/48 | 1 |
| FR 111/49 | 1 |
| FR 111/50 | 1 |
| FR 111/51 | 1 |
| FR 111/52 | 1 |
| FR 111/53 | 1 |
| FR 111/54 | 1 |
| FR 111/55 | 1 |
| FR 111/56 | 1 |
| FR 111/57 | 1 |
| FR 111/58 | 1 |
| FR 111/59 | 1 |
| FR 111/60 | 1 |
| FR 111/61 | 1 |
| FR 111/62 | 1 |
| FR 111/63 | 1 |
| FR 111/64 | 1 |
| FR 111/65 | 1 |
| FR 111/66 | 1 |
| FR 111/67 | 1 |
| FR 111/68 | 1 |
| FR 111/69 | 1 |
| FR 111/70 | 1 |
| FR 111/71 | 1 |
| FR 111/72 | 1 |
| FR 111/73 | 1 |
| FR 111/74 | 1 |
| FR 111/75 | 1 |
| FR 111/76 | 1 |
| FR 111/77 | 1 |
| FR 111/78 | 1 |
| FR 111/79 | 1 |
| FR 111/80 | 1 |
| FR 111/81 | 1 |
| FR 111/82 | 1 |
| FR 111/83 | 1 |
| FR 111/84 | 1 |
| FR 111/85 | 1 |
| FR 111/86 | 1 |
| FR 111/87 | 1 |
| FR 111/88 | 1 |
| FR 111/89 | 1 |
| FR 111/90 | 1 |
| FR 111/91 | 1 |
| FR 111/92 | 1 |
| FR 111/93 | 1 |
| FR 111/94 | 1 |
| FR 111/95 | 1 |
| FR 111/96 | 1 |
| FR 111/97 | 1 |
| FR 111/98 | 1 |
| FR 111/99 | 1 |
| FR 111/100 | 1 |

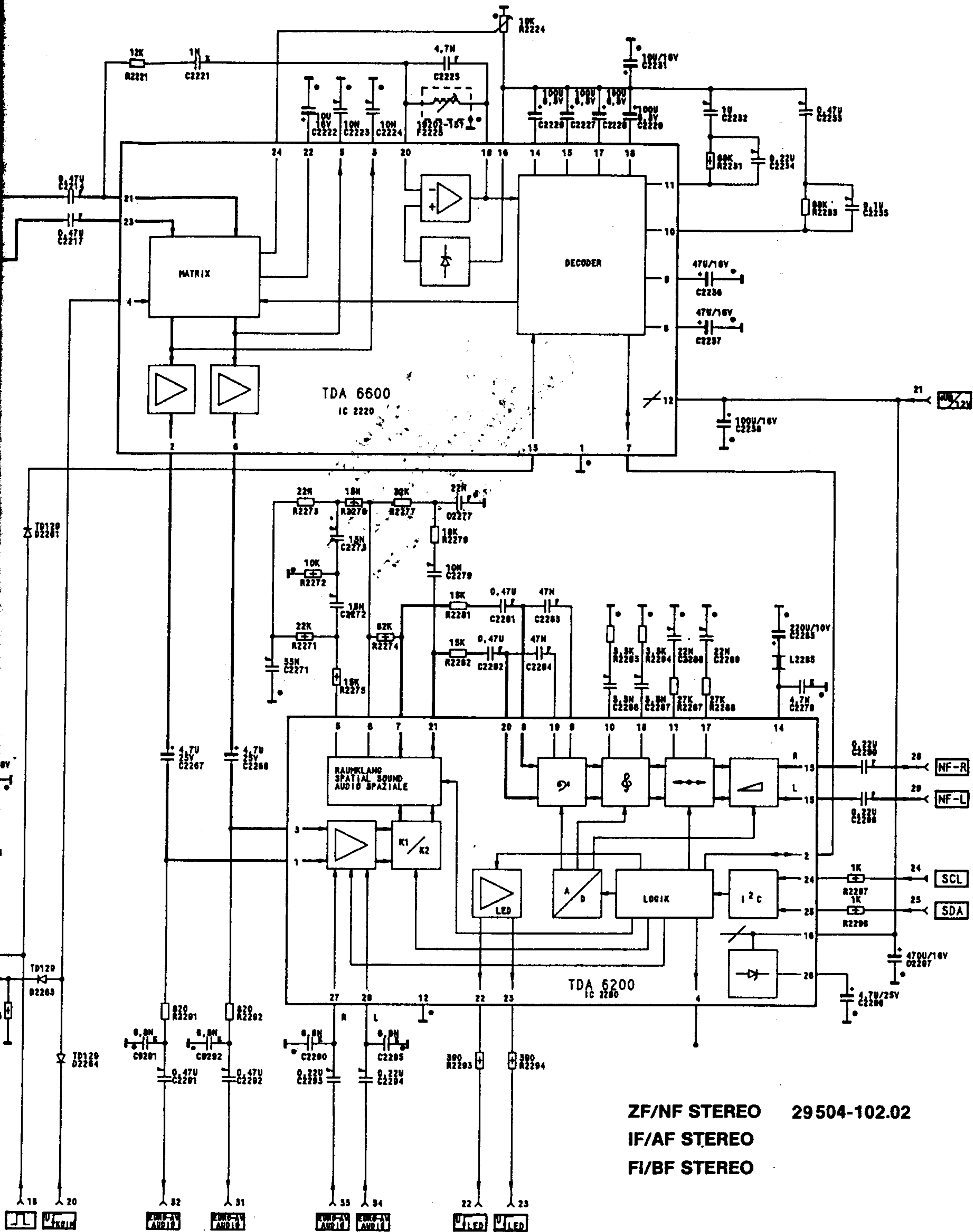


10

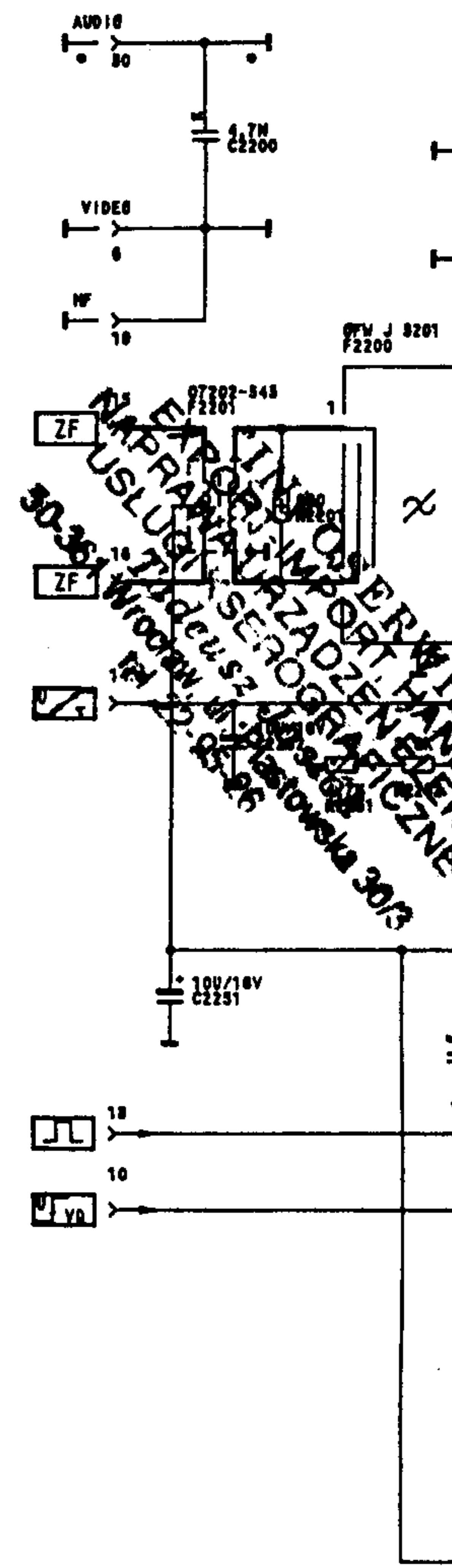


Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
 When replacing the plug-in board, no alignment is necessary
 Non è necessaria nessuna taratura di adattamento dopo la
 sostituzione di una scheda ad innesto



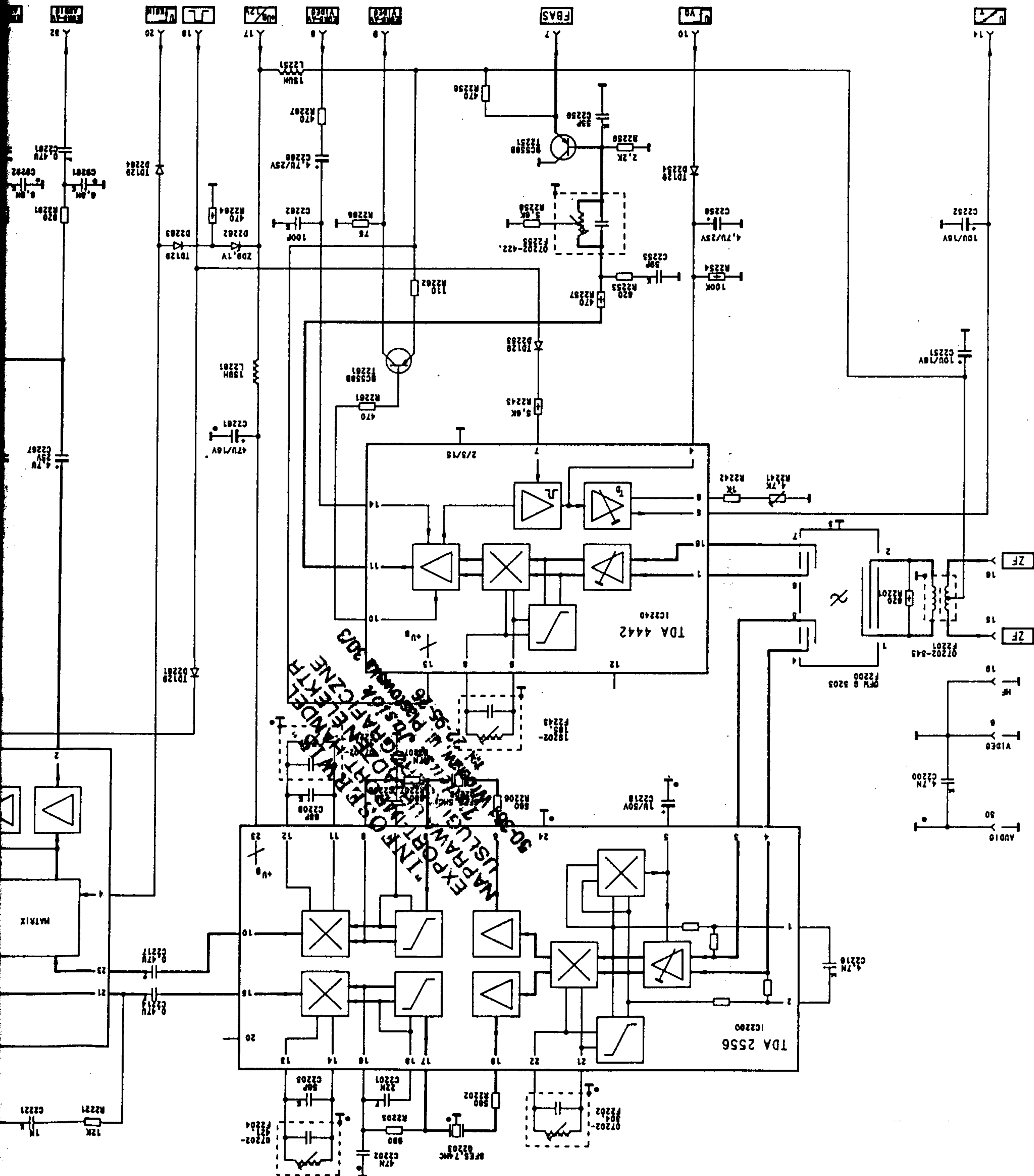


ZF/NF STEREO 29504-102.02
 IF/AF STEREO
 FI/BF STEREO



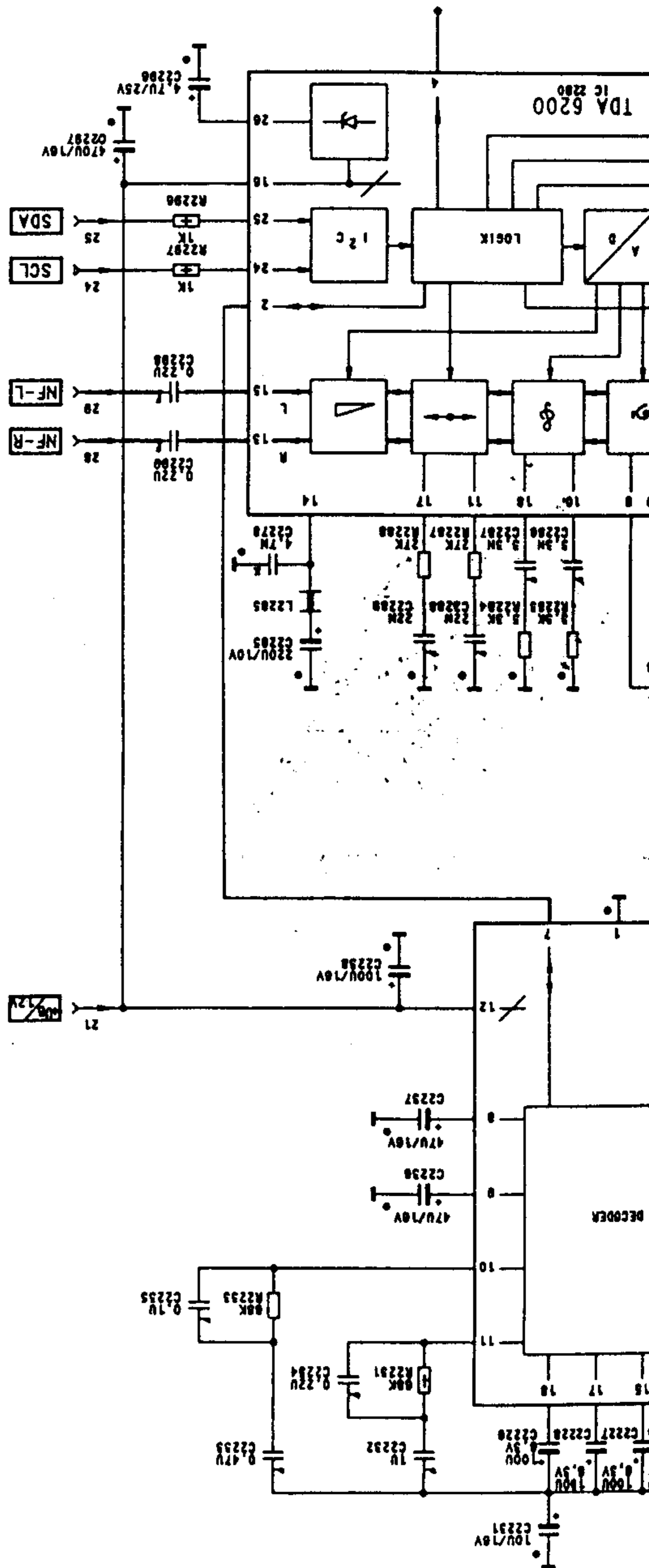
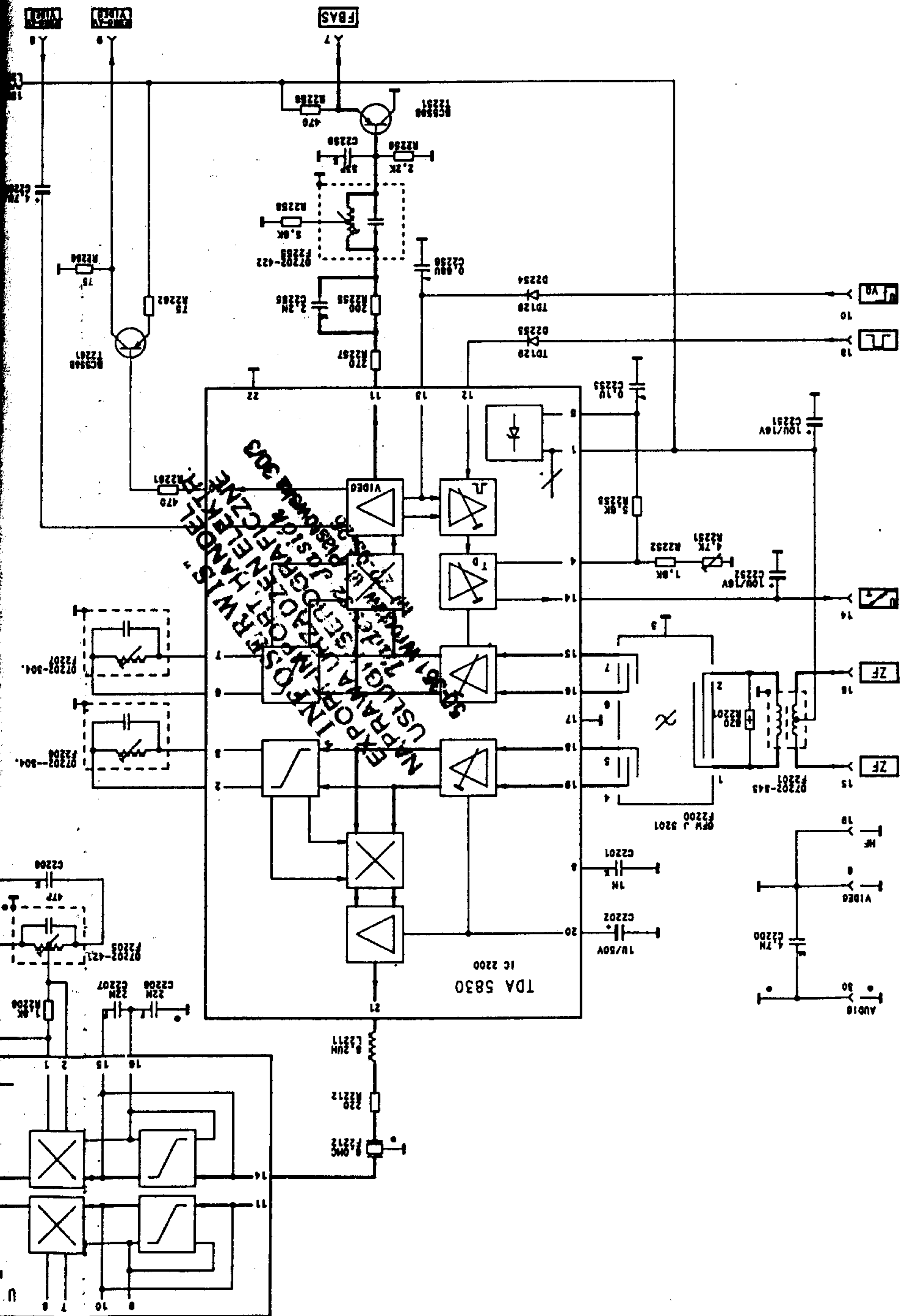
Kein Anpassungsabgleich bei Austausch!
 When replacing the plug-in board,
 Non è necessaria nessuna taratura
 sostituzione di una scheda ad inn

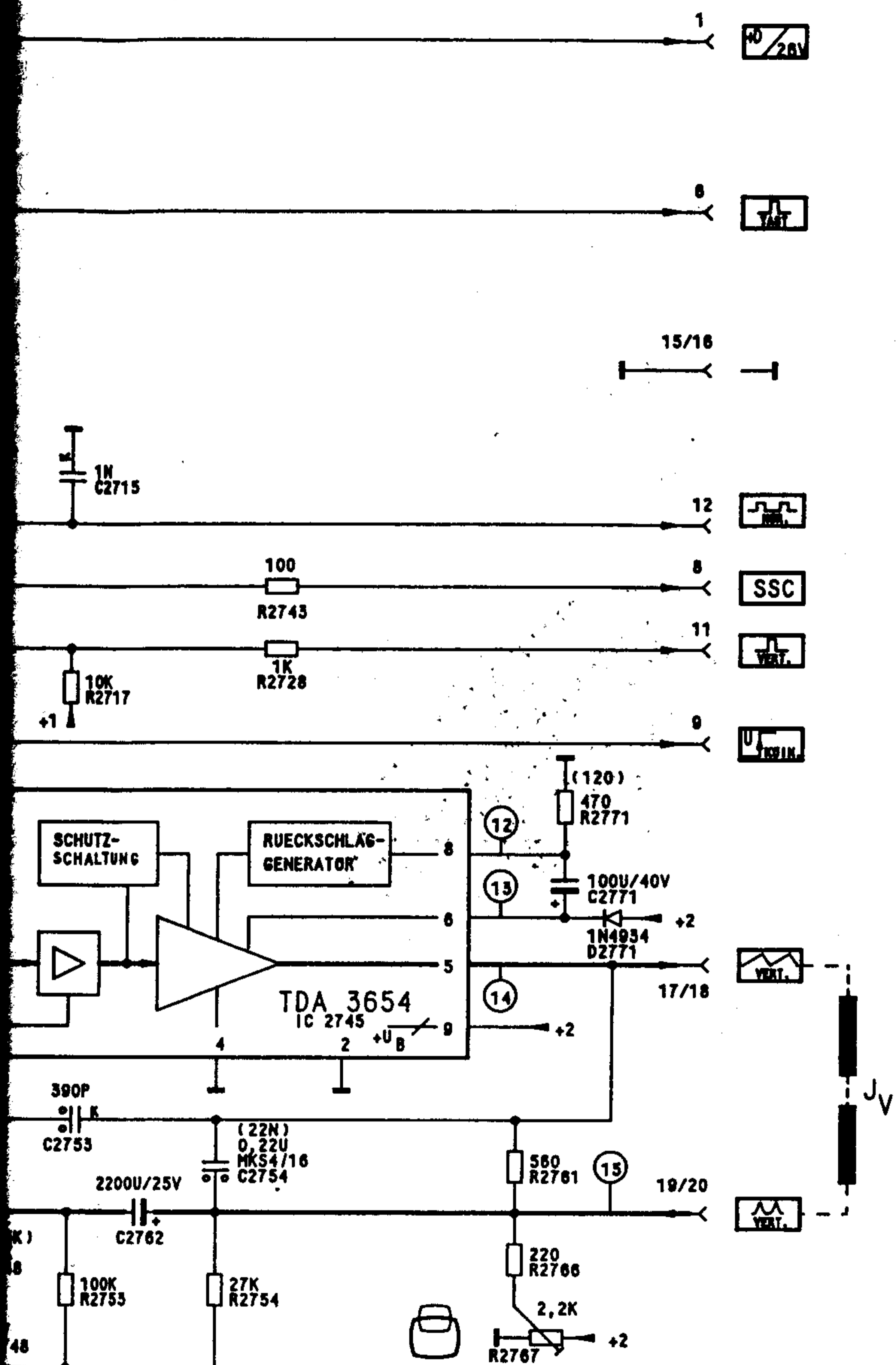
Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
 When replacing the plug-in board, no alignment is necessary
 Non è necessaria nessuna taratura di adattamento dopo la
 sostituzione di una scheda ad innesto



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

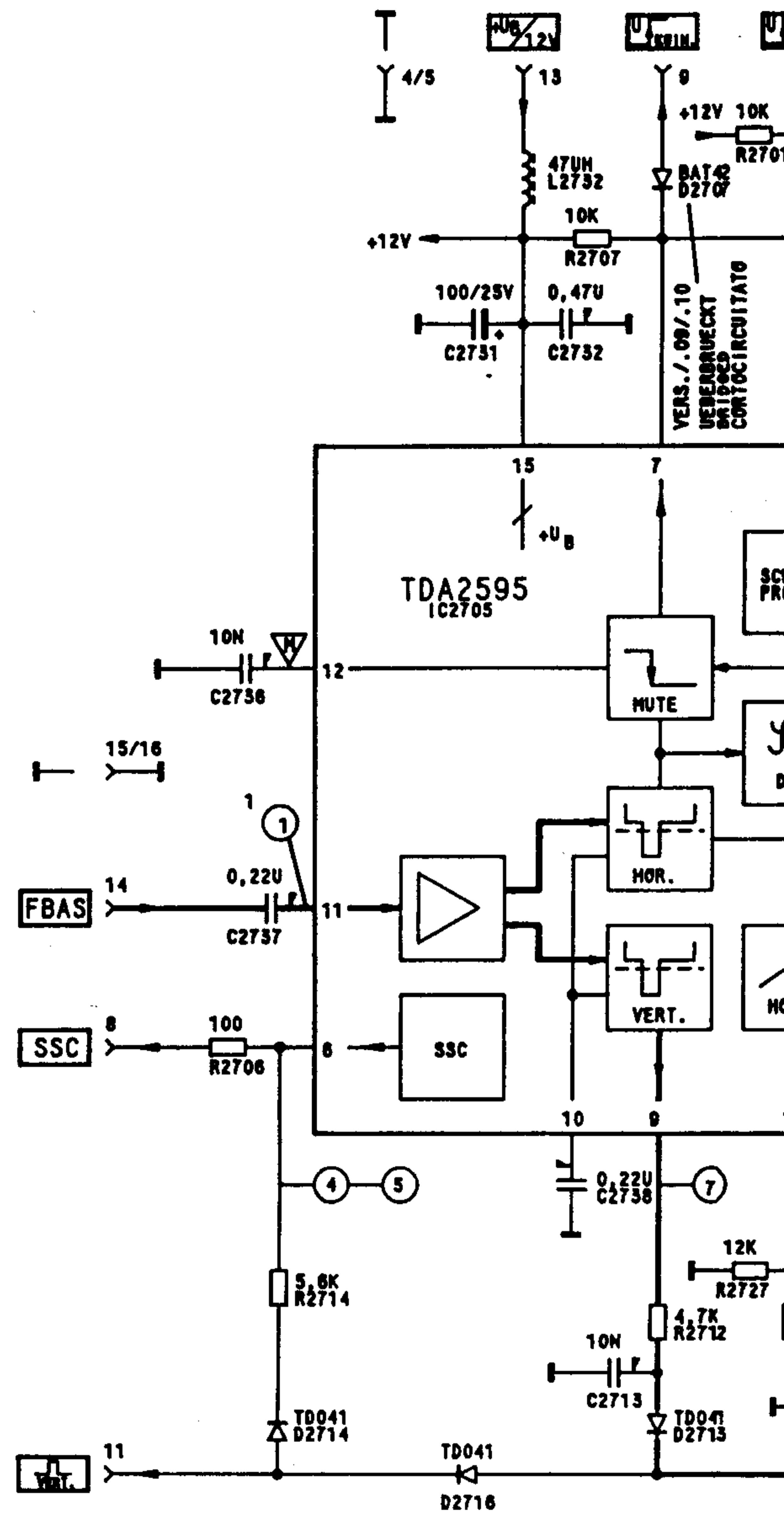
ZF/NF STEREO 29 504-102.02
 IF/AF STEREO
 FI/BF STEREO



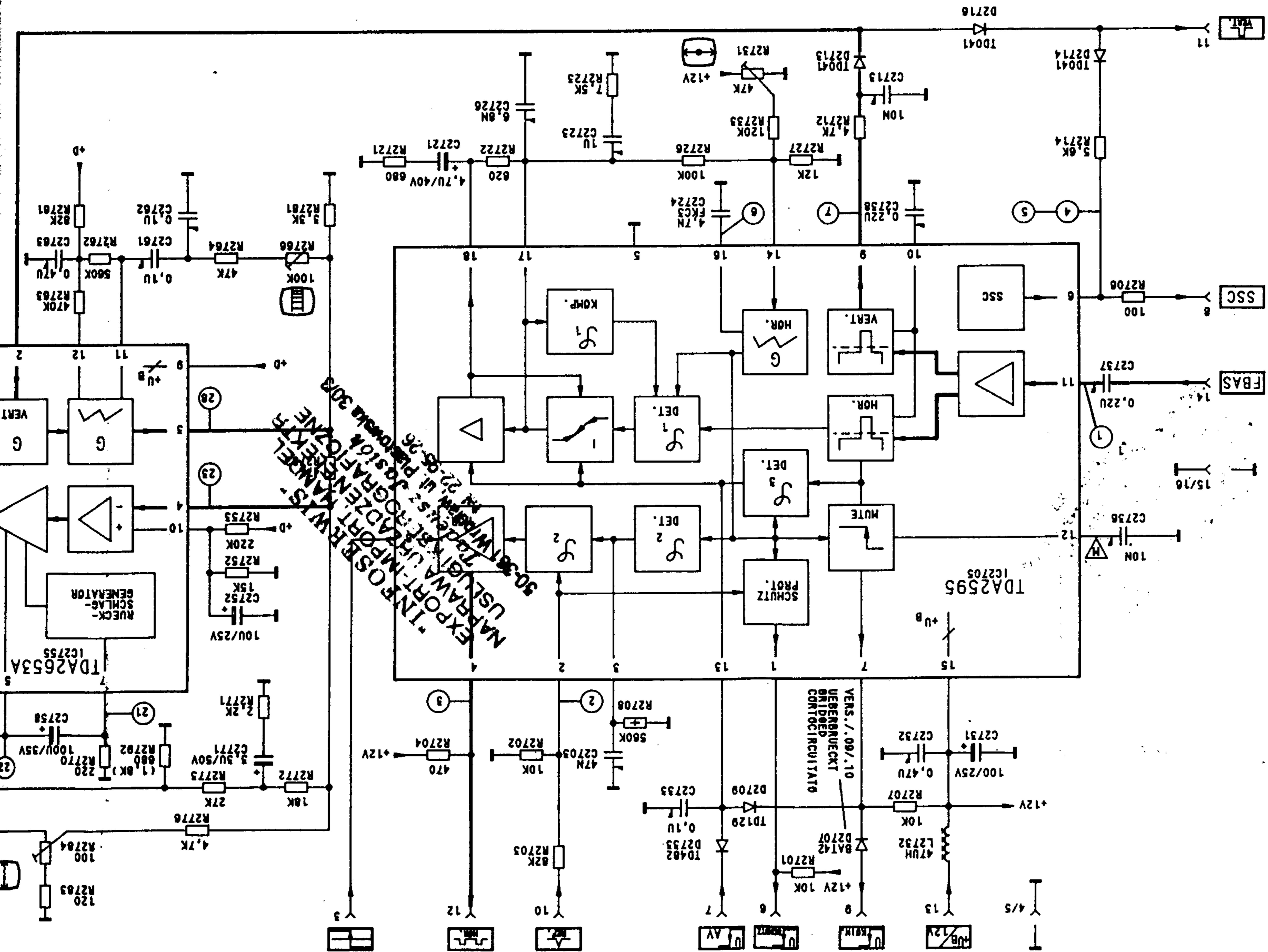


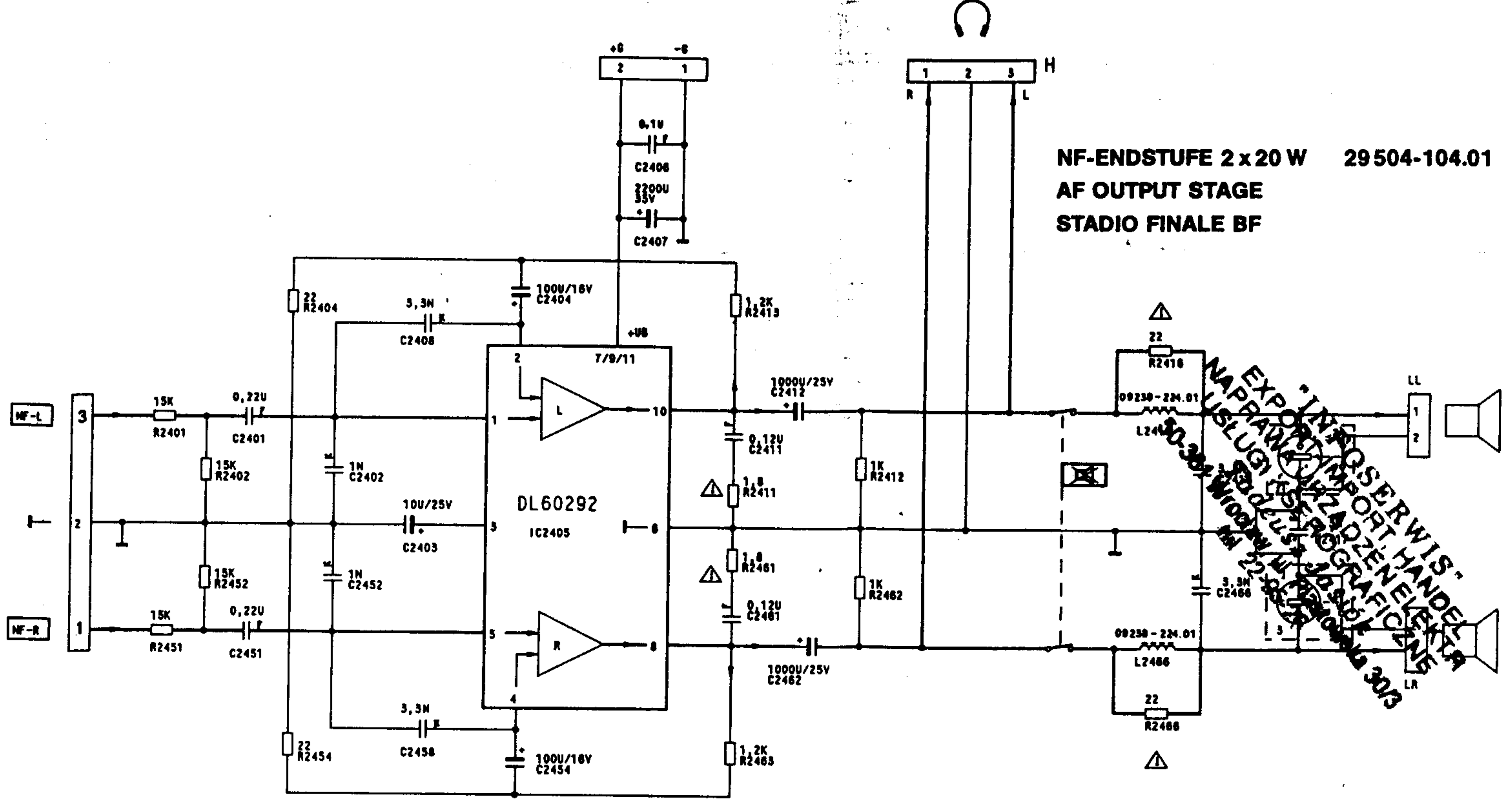
Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
 When replacing the plug-in board, no alignment is necessary
 Non è necessaria nessuna taratura di adattamento dopo la sostituzione di una scheda ad innesto

2V/cm
 10µsec/cm



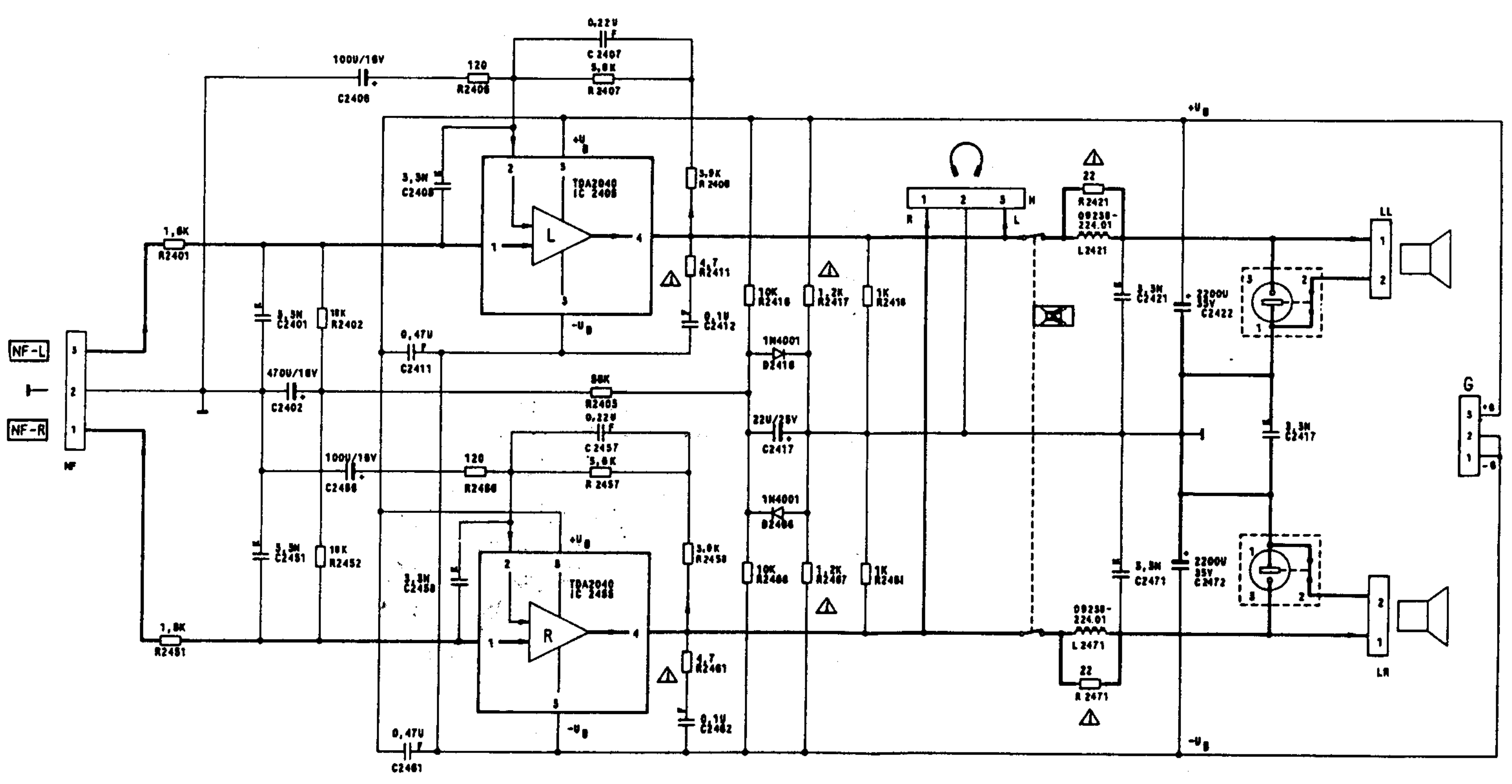
29 504-007.07/09
 ABLENKUNG
 DEFLECTION
 DEFLESSIONE
 WERTE IN ()
 VALUES IN
 VALORI TRA





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

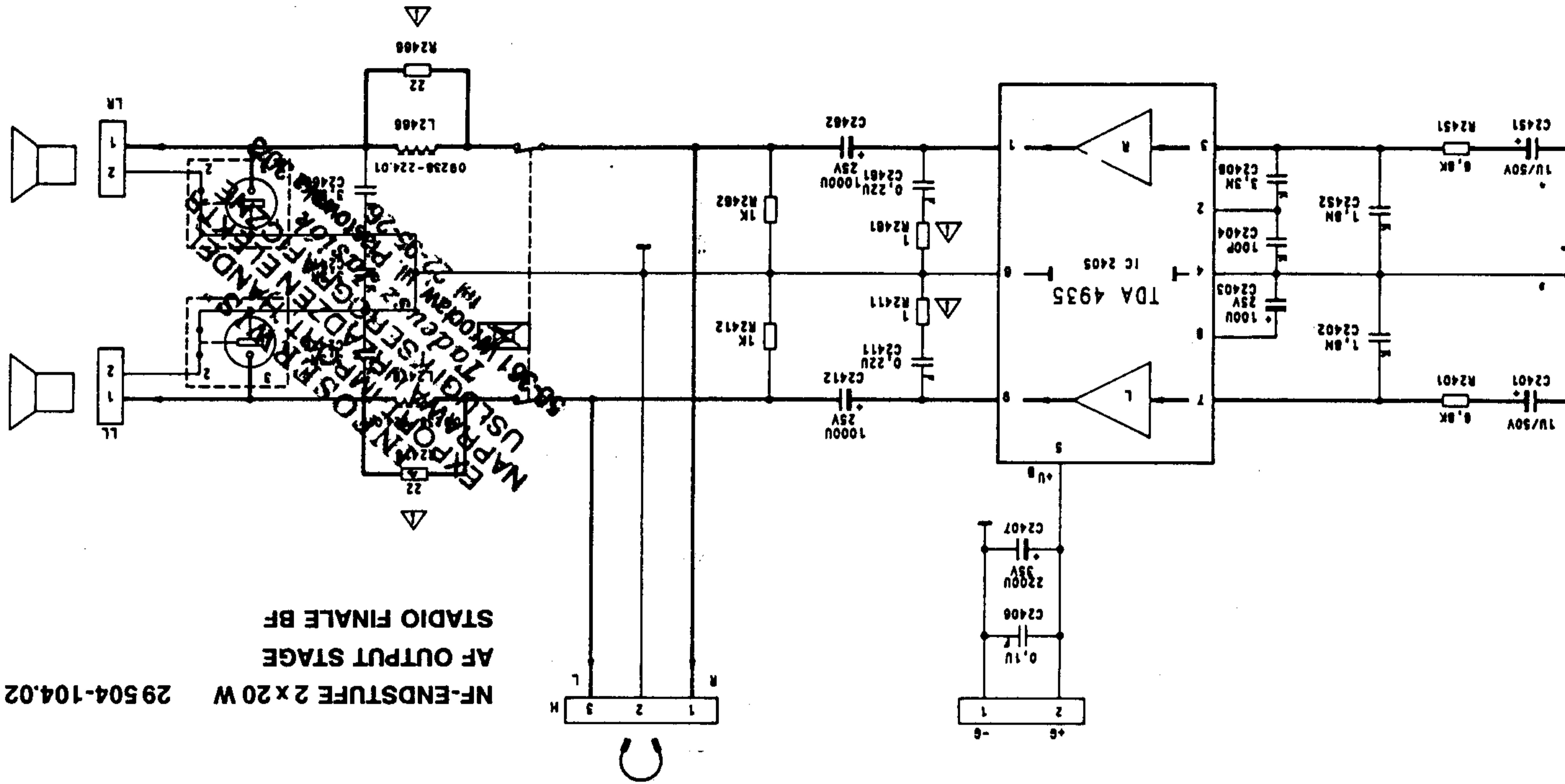
Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
 When replacing the plug-in board, no alignment is necessary
 Non è necessaria nessuna taratura di adattamento dopo la sostituzione di una scheda ad innesto



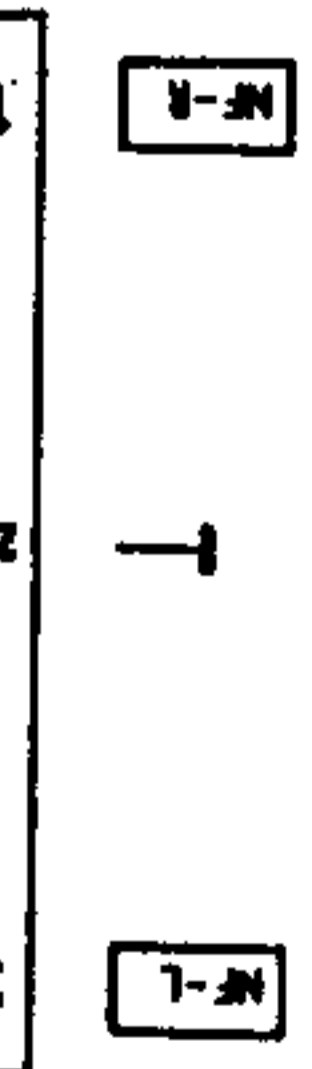
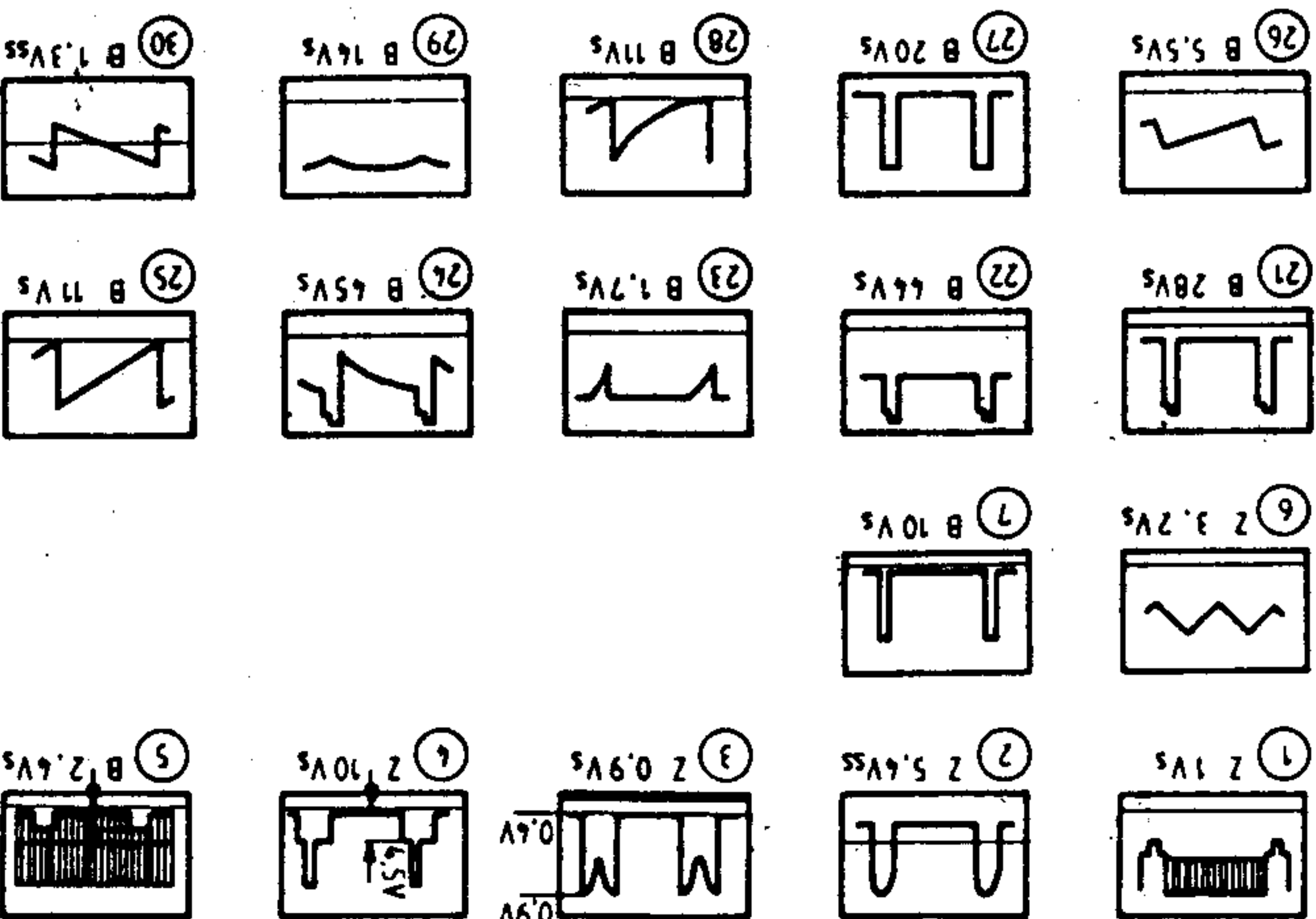
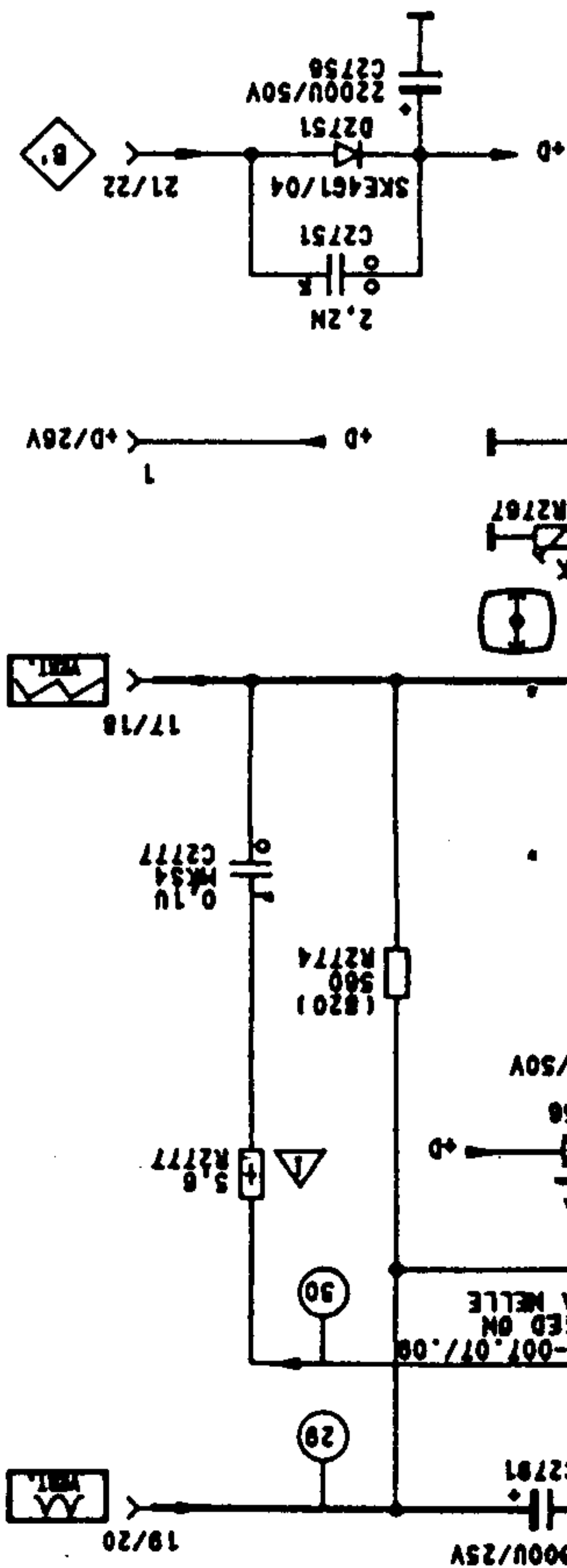
NF-ENDSTUFE 2 x 35 W 29504-104.11
 AF OUTPUT STAGE
 STADIO FINALE BF

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

Kein Anpassungsabgleich bei Austausch der Steckkarte notwendig
 Non è necessaria nessuna taratura di adattamento dopo la
 sostituzione di una scheda ad innesto



NF-ENDSTUFE 2 x 20 W 29 504-104.02
 AF OUTPUT STAGE
 STADIO FINALE BF



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

CUC 2600

| Pos. No. | Fig. Bestell-Nr./Part No. | Benennung | Description |
|----------|---------------------------|-----------|-------------|
|----------|---------------------------|-----------|-------------|

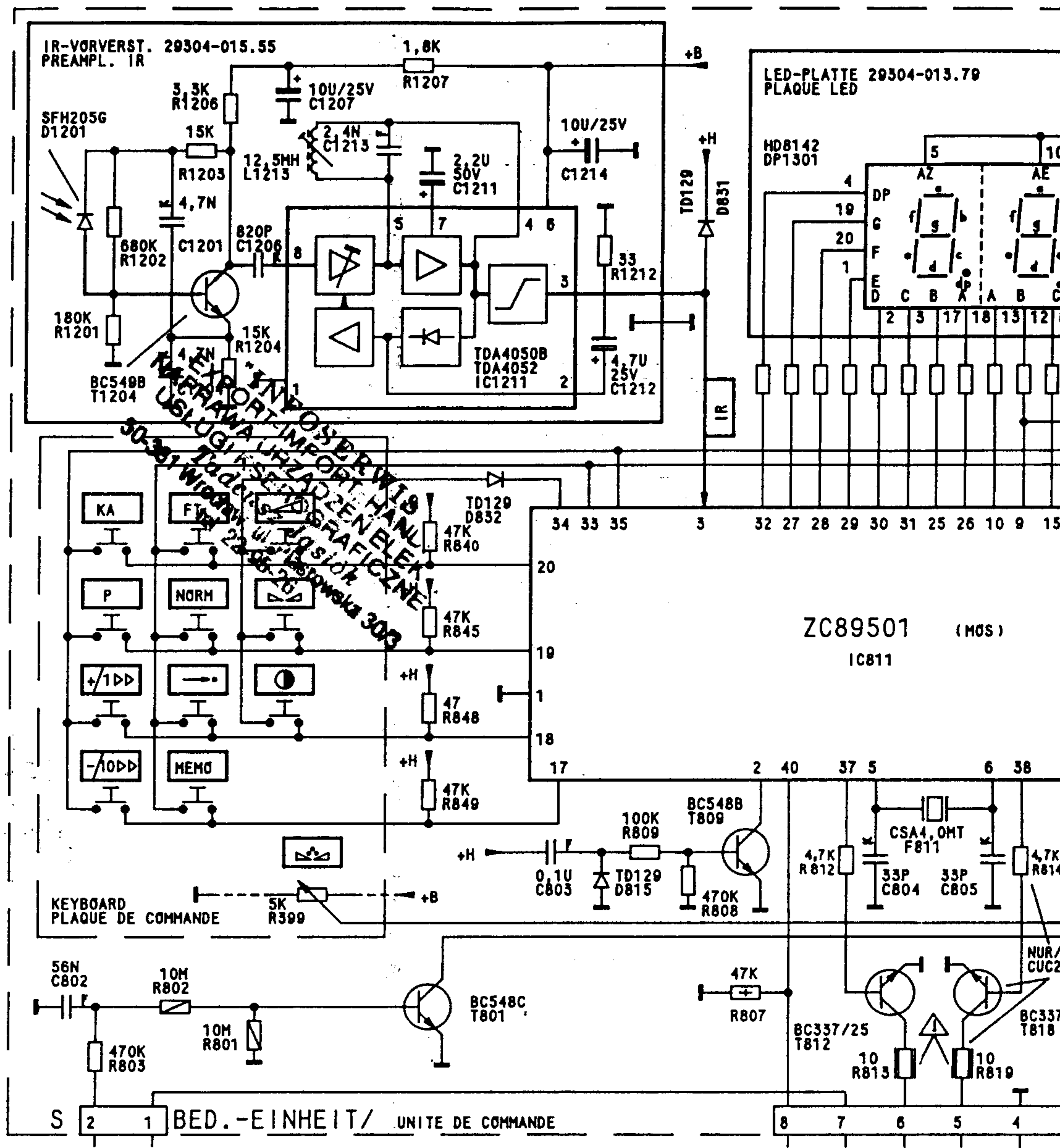
| Pos. No. | Fig. Bestell-Nr./Part No. | Benennung | Description |
|----------|---------------------------|-------------------------|--------------------------|
| 1 | 29504-101.01 | Kabeltuner | Cable tuner |
| 2 | 29504-102.01 | ZF-Verstärker | IF-amplifier |
| 2 | 29504-102.02 | ZF-Verstärker | IF-amplifier |
| 2 | 29504-162.01 | ZF-Verstärker (Multi) | IF-amplifier (Multi) |
| 4 | 29504-104.01 | HF-Stereo | HF-stereo |
| 4 | 29504-104.02 | NF-Stereo | AF-stereo |
| 5 | 29504-105.21 | Farb/RGB | Colour-RGB |
| 5 | 29504-165.01 | Farb/RGB (Multi) | Colour-RGB (Multi) |
| 7 | 29504-007.10 | Ablenkung | Deflection |
| 7 | 29504-107.05 | Ablenkung | Deflection |
| 10 | 29304-070.46 | Bildröhre (kpl.) | CRT socket board compl. |
| 10.1 | 29303-754.97 | Bildrohrfassung | Picture tube socket |
| 12 | 29700-284.01 | Gausteinhalter | Circuit board holder |
| 13 | 29500-807.01 | Koax-Buchsen-Abdeckung | Coaxial-socket cover |
| 14 | 09621-113.02 | Sicherungshalter | Fuse holder |
| 15 | 29303-153.02 | 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-Buchsen-Abdeckung | AV-socket cover |
| 20 | 29700-280.01 | NF-Aufnahme | AF-holder |
| K 536 | 8324-800-040 | Kaskade BG2087/642-1006 | EHT-trippler |
| | 72008-090.02 | Fokusringler | Focus control |
| 1F 501 | 09246-936.21 | | |
| 1F 526 | 29201-019.05 | | |
| 1F 531 | 09246-936.21 | | |
| L 336 | 8140-264.51 | | |
| L 355 | 8140-526.41 | | |
| L 356 | 09240-113.21 | | |
| L 503 | 29500-805.96 | | |
| L 506 | 8140-525-884 | | |
| L 514 | 8104-962-002 | | |
| L 521 | 29203-110.97 | | |
| L 526 | 09240-110.21 | | |
| L 552 | 09245-804.21 | | |
| L 571 | 29500-806.96 | | |
| L 573 | 09246-846.24 | | |
| L 631 | 29500-806.96 | | |
| L 633 | 8140-525-266 | | |
| L 634 | 09273-309.01 | | |
| L 672 | 8140-526-320 | | |
| 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 | 7812/3Z | |
| IC 676 | 8305-205-791 | 78 W 05 | |
| 1 111 | 8302-202-543 | BC 548 B | |
| 1 221 | 8302-200-559 | BC 558 B | |
| 1 503 | 8302-260-507 | BU 508 A | |
| 1 504 | 8302-200-637 | BC 637 | |
| 1 634 | 8302-260-903 | BU 903 | |
| 1 736 | 8302-411-759 | GF 759 | |
| 1 737 | 8302-202-560 | BC 558 C | |
| 1 742 | 8302-222-422 | BF 422 | |
| 1 746 | 8302-220-421 | BF 421 | |
| 1 756 | 8302-411-759 | GF 759 | |
| 1 762 | 8302-222-422 | BF 422 | |
| 1 766 | 8302-220-421 | BF 421 | |
| 1 776 | 8302-411-759 | GF 759 | |
| 1 785 | 8302-220-421 | BF 421 | |

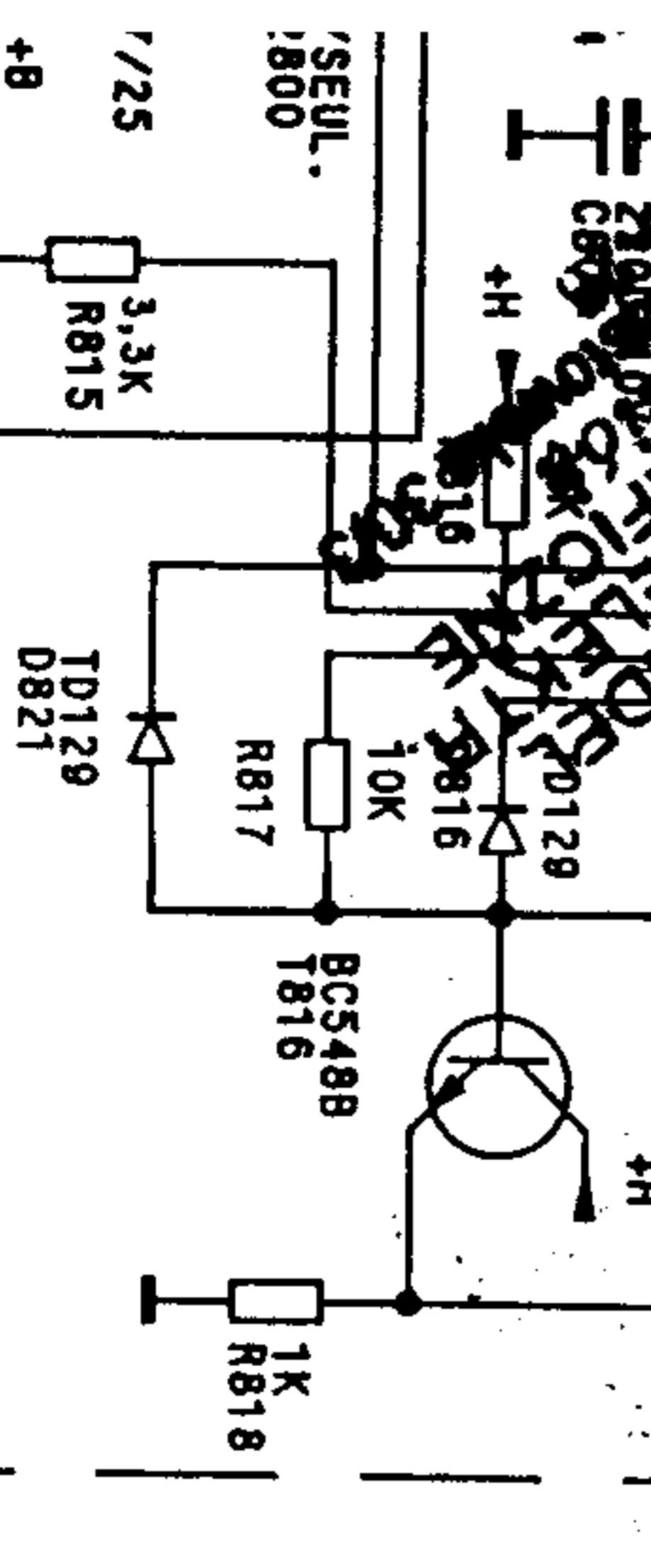
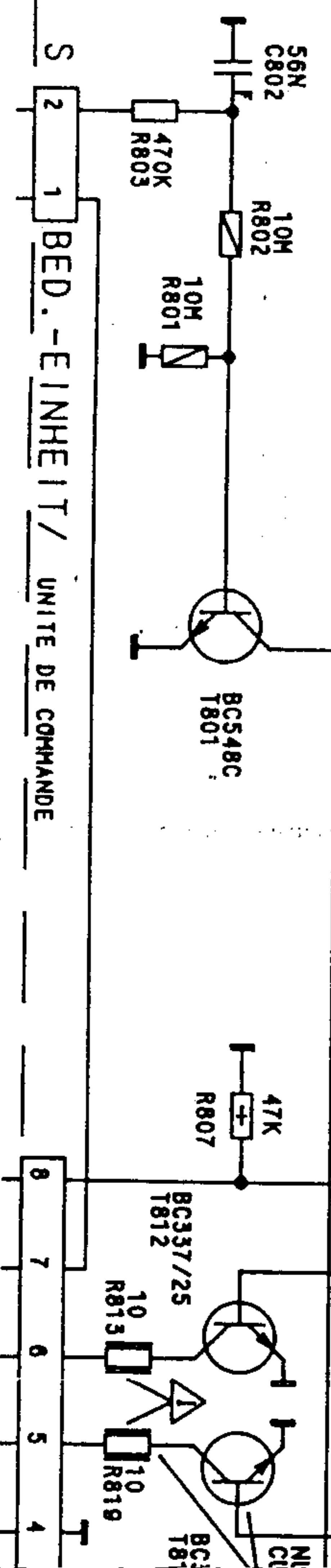
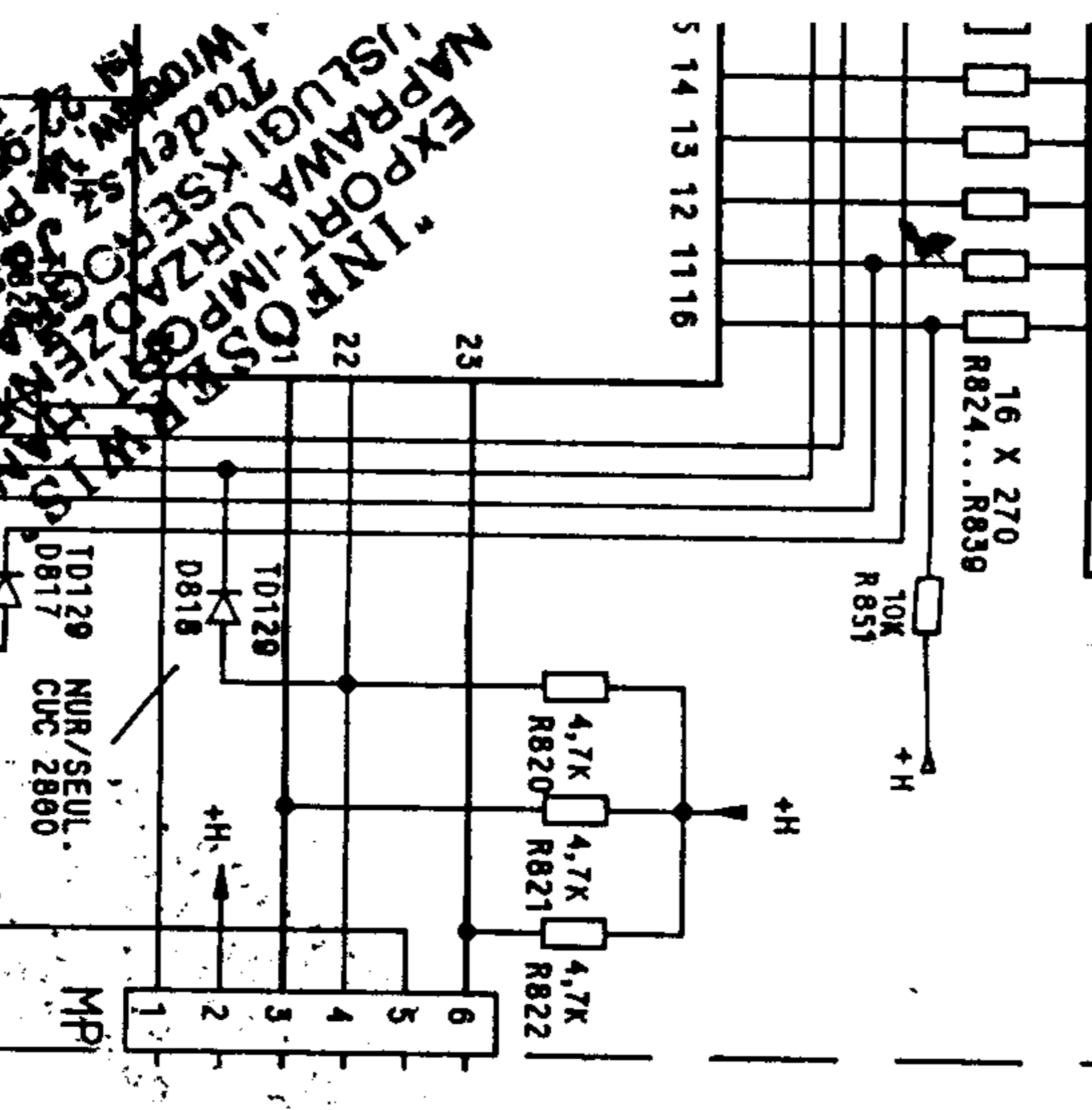
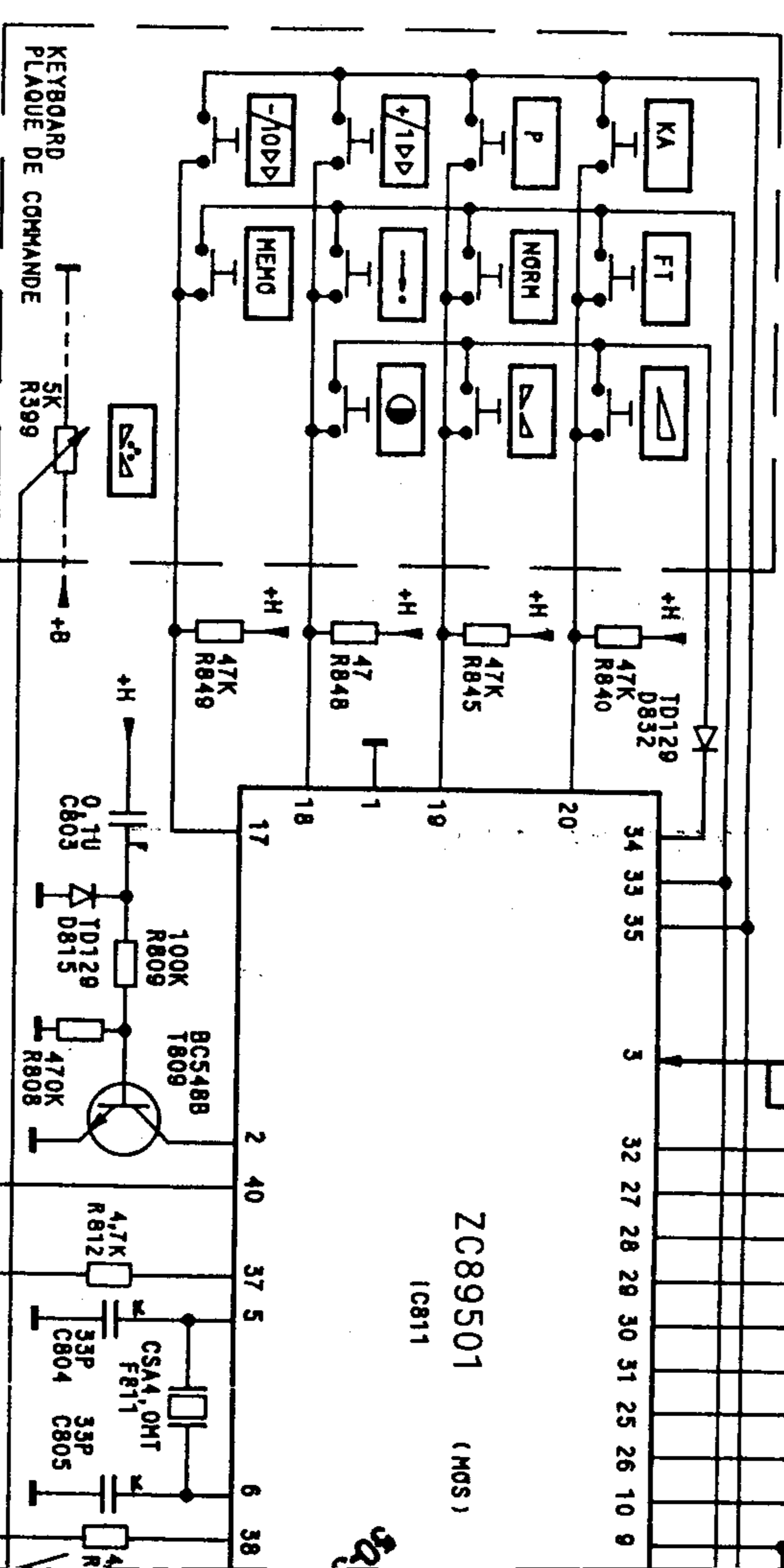
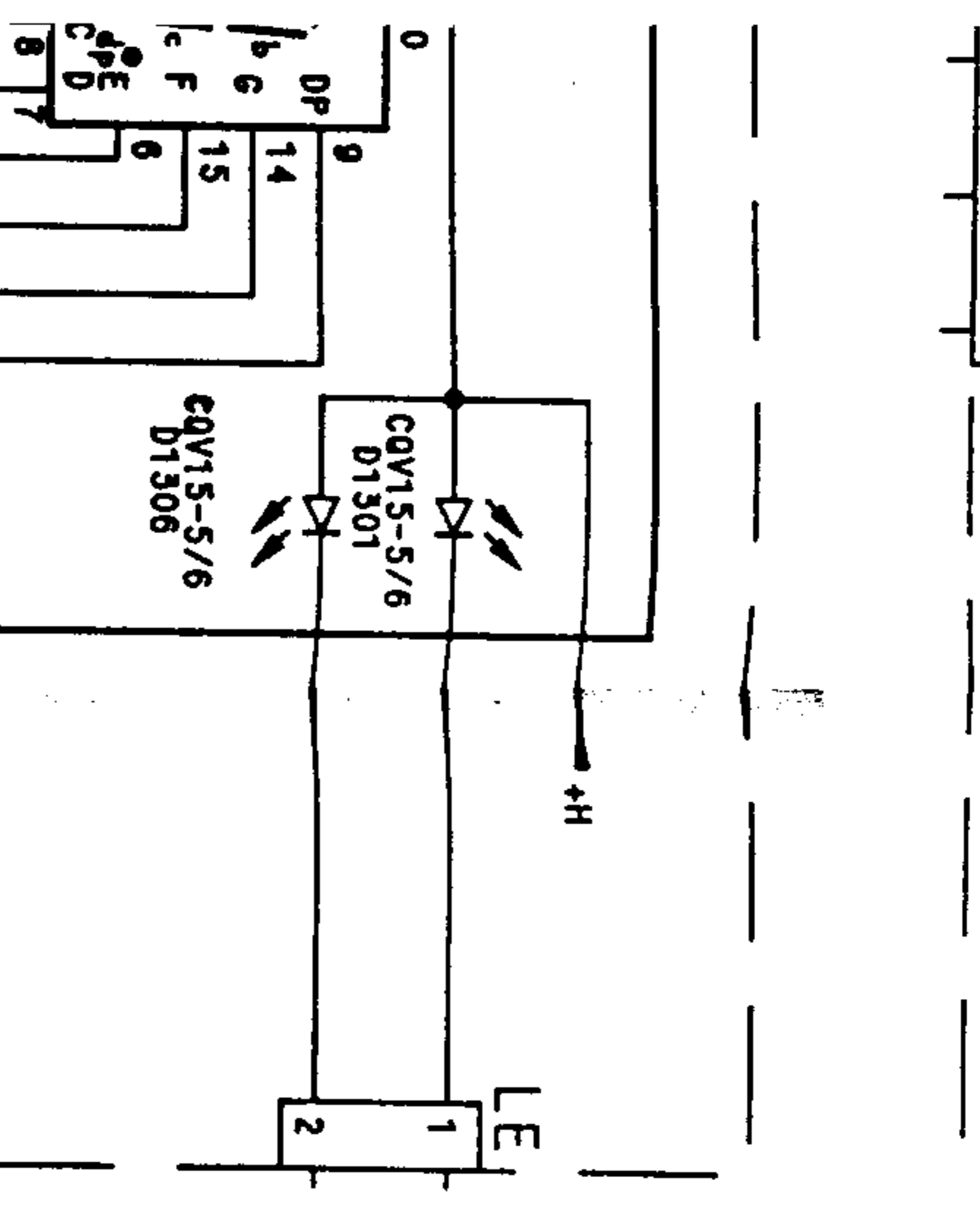
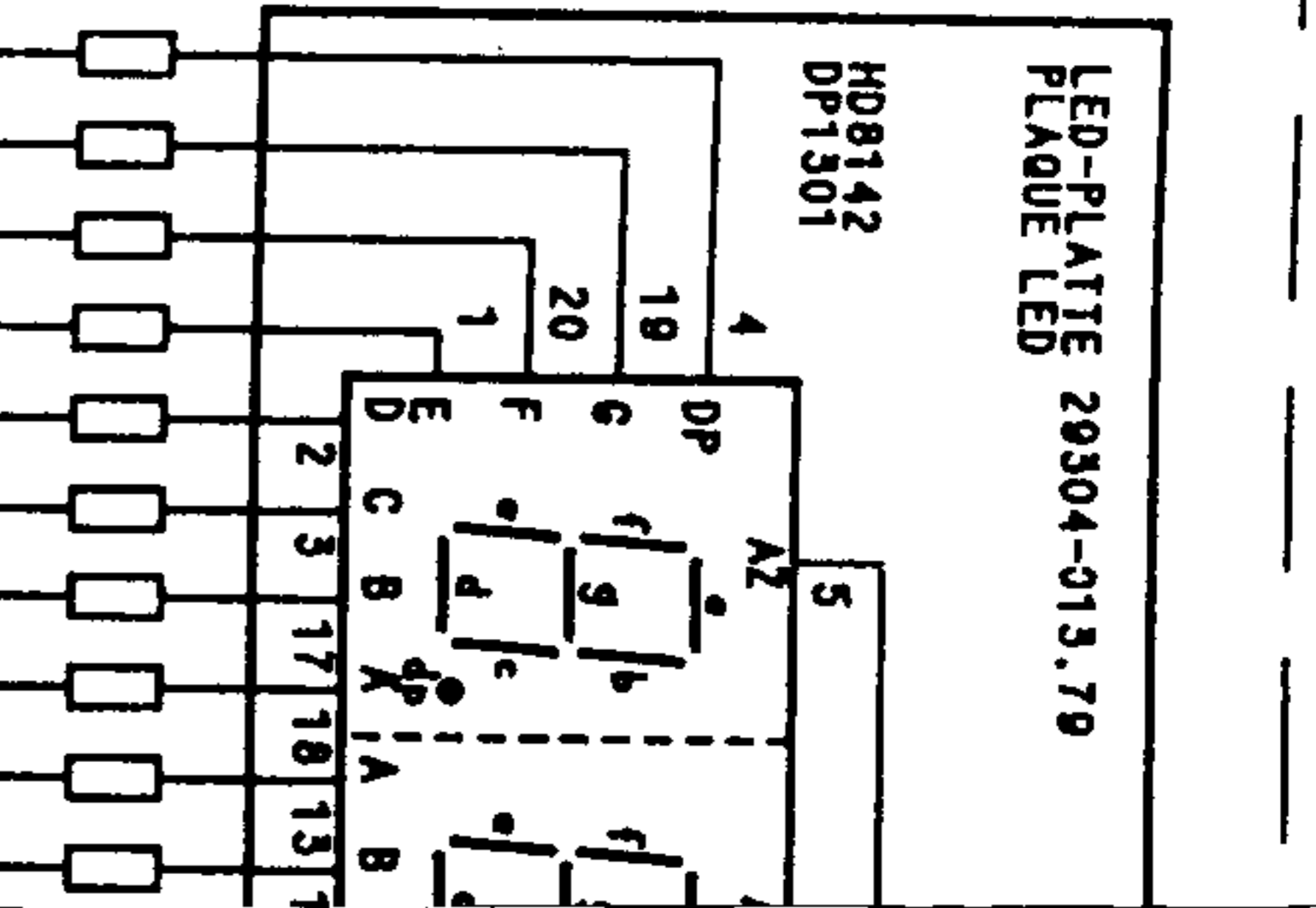
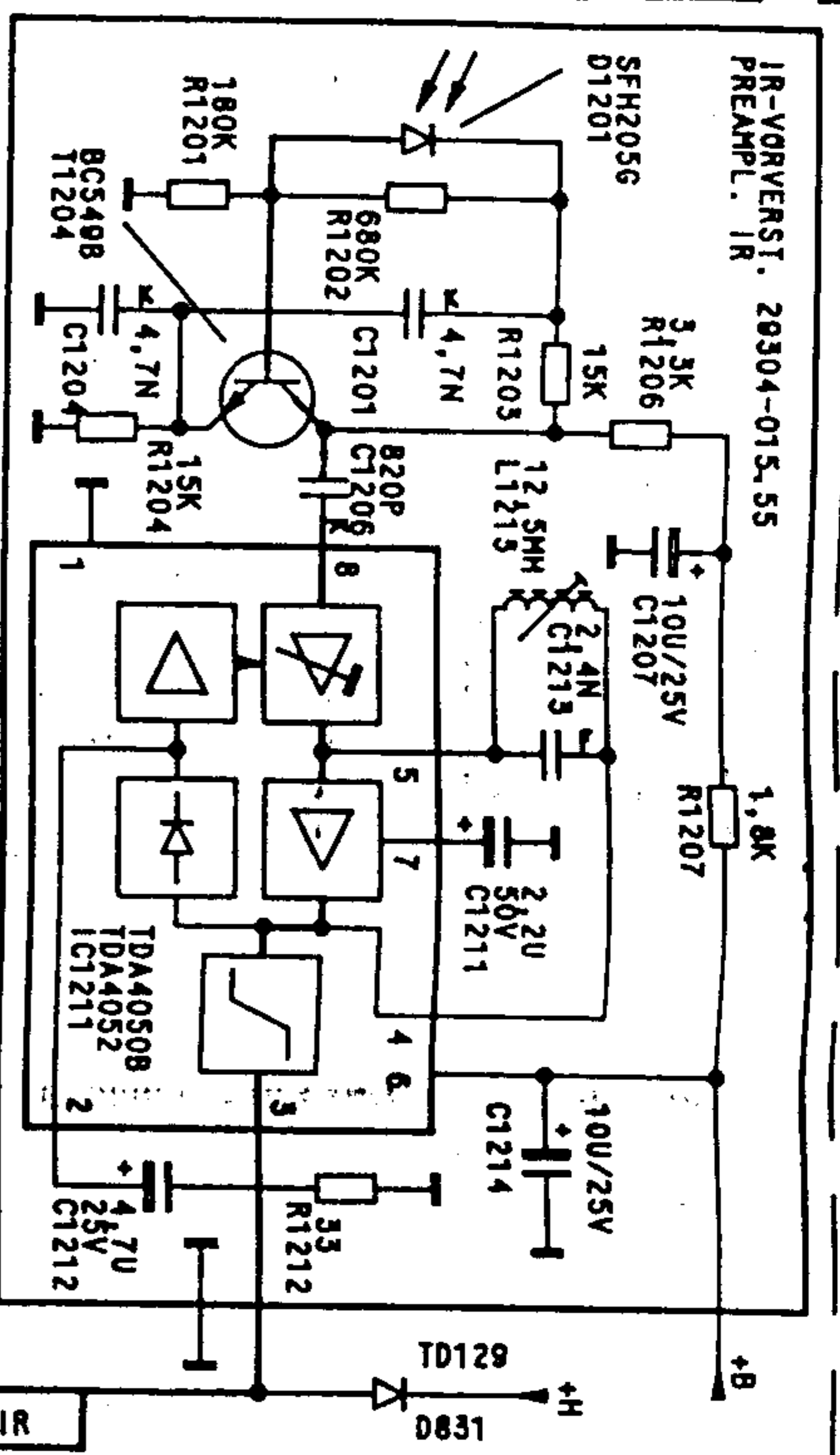
| Pos. No. | Fig. Bestell-Nr./Part No. | Benennung | Description |
|----------|---------------------------|-----------|-------------|
| 15 KC | 8705-269-301 | | |
| R 501 | 8700-014-015 | | |
| R 502 | 8705-328-993 | | |
| R 504 | 8705-269-033 | | |
| R 513 | 8700-249-083 | | |
| R 523 | 8705-221-271 | | |
| R 524 | 8700-119-017 | | |
| R 525 | 8735-003-033 | | |
| R 526 | 8311-201-073 | | |
| C 337 | 8705-269-301 | | |
| C 331 | 8309-214-114 | | |
| D 331 | 8309-215-008 | | |
| D 333 | 8309-201-033 | | |
| D 351 | 8309-214-003 | | |
| D 352 | 8305-707-107 | | |
| D 504 | 8302-214-114 | | |
| E 513 | 8302-207-110 | | |
| E 529 | 8302-204-268 | | |
| E 531 | 8302-215-020 | | |
| D 534 | 8302-215-020 | | |
| D 554 | 8302-215-050 | | |
| F 571 | 8302-204-228 | | |
| D 572 | 8302-210-144 | | |
| D 616 | 8302-215-013 | | |
| D 621 | 8302-60-384 | | |
| D 633 | 8302-517-033 | | |
| D 634 | 8302-215-013 | | |
| D 635 | 8302-215-033 | | |
| D 647 | 8302-517-033 | | |
| D 648 | 8302-517-033 | | |
| D 652 | 8302-214-018 | | |
| D 653 | 8302-214-018 | | |
| D 656 | 8302-517-076 | | |
| D 661 | 8302-517-072 | | |
| D 671 | 8302-517-072 | | |
| D 681 | 8302-712-822 | | |
| D 708 | 8302-707-109 | | |
| D 741 | 8302-215-050 | | |
| D 743 | 8302-215-050 | | |
| D 746 | 8302-214-018 | | |
| D 761 | 8302-215-050 | | |
| D 763 | 8302-215-050 | | |
| D 766 | 8302-214-018 | | |
| D 781 | 8302-215-050 | | |
| D 783 | 8302-215-050 | | |
| D 786 | 8302-214-018 | | |
| D 788 | 8302-214-018 | | |
| D 789 | 8302-214-018 | | |
| D 790 | 8302-214-018 | | |
| D 791 | 8302-214-018 | | |
| D 792 | 8302-214-018 | | |
| D 793 | 8302-214-018 | | |
| D 794 | 8302-214-018 | | |
| D 795 | 8302-214-018 | | |
| D 796 | 8302-214-018 | | |
| D 797 | 8302-214-018 | | |
| D 798 | 8302-214-018 | | |
| D 799 | 8302-214-018 | | |
| D 800 | 8302-214-018 | | |
| D 801 | 8302-214-018 | | |
| D 802 | 8302-214-018 | | |
| D 803 | 8302-214-018 | | |
| D 804 | 8302-214-018 | | |
| D 805 | 8302-214-018 | | |
| D 806 | 8302-214-018 | | |
| D 807 | 8302-214-018 | | |
| D 808 | 8302-214-018 | | |
| D 809 | 8302-214-018 | | |
| D 810 | 8302-214-018 | | |
| D 811 | 8302-214-018 | | |
| D 812 | 8302-214-018 | | |
| D 813 | 8302-214-018 | | |
| D 814 | 8302-214-018 | | |
| D 815 | 8302-214-018 | | |
| D 816 | 8302-214-018 | | |
| D 817 | 8302-214-018 | | |
| D 818 | 8302-214-018 | | |
| D 819 | 8302-214-018 | | |
| D 820 | 8302-214-018 | | |
| D 821 | 8302-214-018 | | |
| D 822 | 8302-214-018 | | |
| D 823 | 8302-214-018 | | |
| D 824 | 8302-214-018 | | |
| D 825 | 8302-214-018 | | |
| D 826 | 8302-214-018 | | |
| D 827 | 8302-214-018 | | |
| D 828 | 8302-214-018 | | |
| D 829 | 8302-214-018 | | |
| D 830 | 8302-214-018 | | |
| D 831 | 8302-214-018 | | |
| D 832 | 8302-214-018 | | |
| D 833 | 8302-214-018 | | |
| D 834 | 8302-214-018 | | |
| D 835 | 8302-214-018 | | |
| D 836 | 8302-214-018 | | |
| D 837 | 8302-214-018 | | |
| D 838 | 8302-214-018 | | |
| D 839 | 8302-214-018 | | |
| D 840 | 8302-214-018 | | |
| D 841 | 8302-214-018 | | |
| D 842 | 8302-214-018 | | |
| D 843 | 8302-214-018 | | |
| D 844 | 8302-214-018 | | |
| D 845 | 8302-214-018 | | |
| D 846 | 8302-214-018 | | |
| D 847 | 8302-214-018 | | |
| D 848 | 8302-214-018 | | |
| D 849 | 8302-214-018 | | |
| D 850 | 8302-214-018 | | |
| D 851 | 8302-214-018 | | |
| D 852 | 8302-214-018 | | |
| D 853 | 8302-214-018 | | |
| D 854 | 8302-214-018 | | |
| D 855 | 8302-214-018 | | |
| D 856 | 8302-214-018 | | |
| D 857 | 8302-214-018 | | |
| D 858 | 8302-214-018 | | |
| D 859 | 8302-214-018 | | |
| D 860 | 8302-214-018 | | |
| D 861 | 8302-214-018 | | |
| D 862 | 8302-214-018 | | |
| D 863 | 8302-214-018 | | |
| D 864 | 8302-214-018 | | |
| D 865 | 8302-214-018 | | |
| D 866 | 8302-214-018 | | |
| D 867 | 8302-214-018 | | |
| D 868 | 8302-214-018 | | |
| D 869 | 8302-214-018 | | |
| D 870 | 8302-214-018 | | |
| D 871 | 8302-214-018 | | |
| D 872 | 8302-214-018 | | |
| D 873 | 8302-214-018 | | |
| D 874 | 8302-214-018 | | |
| D 875 | 8302-214-018 | | |
| D 876 | 8302-214-018 | | |
| D 877 | 8302-214-018 | | |
| D 878 | 8302-214-018 | | |
| D 879 | 8302-214-018 | | |
| D 880 | 8302-214-018 | | |
| D 881 | 8302-214-018 | | |
| D 882 | 8302-214-018 | | |
| D 883 | 8302-214-018 | | |
| D 884 | 8302-214-018 | | |
| D 885 | 8302-214-018 | | |
| D 886 | 8302-214-018 | | |
| D 887 | 8302-214-018 | | |
| D 888 | 8302-214-018 | | |
| D 889 | 8302-214-018 | | |
| D 890 | 8302-214-018 | | |
| D 891 | 8302-214-018 | | |
| D 892 | 8302-214-018 | | |
| D 893 | 8302-214-018 | | |
| D 894 | 8302-214-018 | | |
| D 895 | 8302-214-018 | | |
| D 896 | 8302-214-018 | | |
| D 897 | 8302-214-018 | | |
| D 898 | 8302-214-018 | | |
| D 899 | 8302-214-018 | | |
| D 900 | 8302-214-018 | | |
| D 901 | 8302-214-018 | | |
| D 902 | 8302-214-018 | | |
| D 903 | 8302-214-018 | | |
| D 904 | 8302-214-018 | | |
| D 905 | 8302-214-018 | | |
| D 906 | 8302-214-018 | | |
| D 907 | 8302-214-018 | | |
| D 908 | 8302-214-018 | | |
| D 909 | 8302-214-018 | | |
| D 910 | 8302-214-018 | | |
| D 911 | 8302-214-018 | | |
| D 912 | 8302-214-018 | | |
| D 913 | 8302-214-018 | | |
| D 914 | 8302-214-018 | | |
| D 915 | 8302-214-018 | | |
| D 916 | 8302-214-018 | | |
| D 917 | 8302-214-018 | | |
| D 918 | 8302-214-018 | | |
| D 919 | 8302-214-018 | | |
| D 920 | 8302-214-018 | | |
| D 921 | 8302-214-018 | | |
| D 922 | 8302-214-018 | | |
| D 923 | 8302-214-018 | | |
| D 924 | 8302-214-018 | | |
| D 925 | 8302-214-018 | | |
| D 926 | 8302-214-018 | | |
| D 927 | 8302-214-018 | | |
| D 928 | 8302-214-018 | | |
| D 929 | 8302-214-018 | | |
| D 930 | 8302-214-018 | | |
| D 931 | 8302-214-018 | | |
| D 932 | 8302-214-018 | | |
| D 933 | 8302-214-018 | | |
| D 934 | 8302-214-018 | | |
| D 935 | 8302-214-018 | | |
| D 936 | 8302-214-018 | | |
| D 937 | 8302-214-018 | | |
| D 938 | 8302-214-018 | | |
| D 939 | 8302-214-018 | | |
| D 940 | 8302-214-018 | | |
| D 941 | 8302-214-018 | | |
| D 94 | | | |

| Fig. No. | Bestell-Nr./Part No. Réf./Nr. d'ordinazioni | Benennung Description Désignation Denominazione |
|----------|--|--|
|----------|--|--|

| | |
|--------------|-----------------------------|
| 8730-179-221 | 7W/6,8 Ω |
| 8705-221-225 | 10 Ω |
| 8700-201-081 | 2,2 KΩ NB |
| 8700-000-073 | 1 KΩ |
| 8765-098-001 | 1 Ω |
| 8790-047-135 | 1 KΩ |
| 8790-047-164 | 100 KΩ |
| 8701-230-817 | 4,7 Ω |
| 8705-321-083 | 2,7 KΩ |
| 8311-201-462 | PTC 1 G 0 63100-P 2462-J 29 |
| 8730-199-016 | 11W/4,3 Ω |
| 8311-400-125 | VDR VZA 275 |
| 8716-250-158 | 3,6 MΩ VDE |
| 8705-369-325 | 150 KΩ |
| 8718-250-014 | 4,7 MΩ VDE |
| 8766-326-996 | 0,68 Ω |
| 8700-161-131 | 270 KΩ |
| 8796-101-142 | 2,5 KΩ |
| 8750-210-049 | 7W/100 Ω |
| 8705-329-315 | 56 KΩ |
| 8735-003-022 | 0,22 Ω |
| 8735-003-022 | 0,22 Ω |
| 8735-002-022 | 2W/0,22 Ω |
| 8705-369-271 | 820 Ω |
| 8730-271-215 | 7W/3,9 Ω |
| 8705-269-209 | 2,2 Ω |
| 8705-226-281 | 2,2 KΩ |
| 8797-215-674 | 470 KΩ |
| 8790-047-135 | 1 KΩ |
| 8705-329-113 | 47 KΩ |
| 8705-369-103 | 18 KΩ |
| 8700-201-069 | 680 Ω NB |
| 8705-329-113 | 47 KΩ |
| 8705-369-103 | 18 KΩ |
| 8700-201-069 | 680 Ω NB |
| 8790-047-135 | 1 KΩ |
| 8705-329-113 | 47 KΩ |
| 8705-369-103 | 18 KΩ |
| 8700-201-069 | 680 Ω NB |

8315-618-002 1,25 A





"INFORMAZIONE" EXPORT-IMPORT
 NAPRAWA URZADZEN
 ZADANIE KSEFERW
 WIDELSKA 22
 20-030 WARSZAWA
 TEL. 81-63-11-11
 1981