

GRUNDIG

SCHALTBILD CIRCUIT DIAGRAM SCHEMA



Schaltbild
Circuit
Diagram
Schema

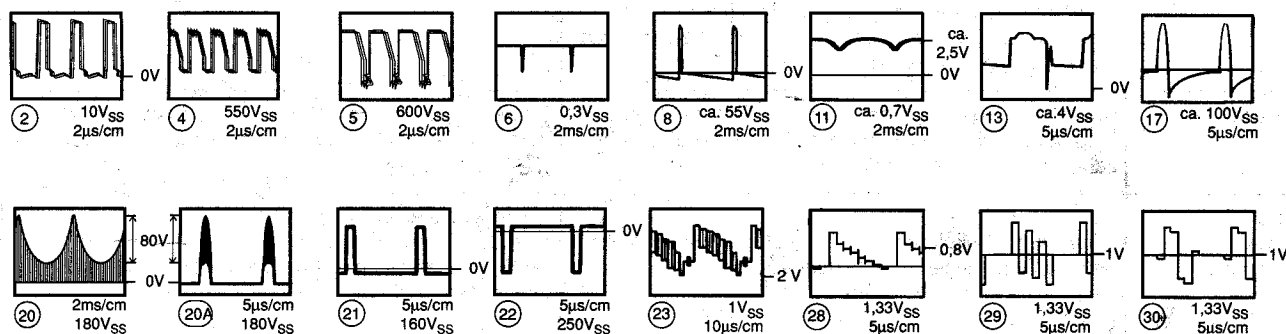
www.telemaster.ru

Ⓟ Btx * 32700 #

CUC 1822
CUC 1852

E 63-911 IDTV (9.21186-01)
E 72-911 IDTV (9.21276-01)

Oszillogramme - Chassis / Oscillogrammes chassis / Oszillogrammi telaio



Schaltplansymbole / Circuit diagram symbols / Simboli sullo schema

| | | | |
|--|---|--|---|
| | Zeilenbreite / Line width / Amplitude horizontale / Larghezza di riga / Amplitudo Horizontal | | Bildamplitude / Frame ampl. / Ampl. verticale / Ampiezza d'immagine / Ampl. vertical |
| | Hor. Frequenz / Hor. Frequency / Fréqu. horiz. / Frequ. orizz. / Frequ. horiz. | | Vert. Frequenz / Vert. frequency / Fréqu. vert. / Frequ. vert. / Frequ. vert. |
| | Hor. Linearität / Hor. linearity / Linéar. Horizont / Linear. orizz. / Lineal. Horizontal | | Vert. Linearität / Vert. linearity / Linéarité vert. / Linear. vert. / Linealidad vert. |
| | Bildlage hor. / Hor. picture position / Cadrage horizont. / Posizione orizz. d'immagine / Centrado horizontal | | Bildlage vert. / Vert. picture position / Cadrage vertical / Posiz. vert. d'immagine / Centrado vert. |
| | Ost-West Amplitude / East-West amplitude / Amplitude Est - Ouest / Ampiezza Est-Ovest / Amplitud E-O | | Focusregler / Focus control / Réglage de focalisation / Regolat. di focalizz. / Control de foco |
| | Ost-West Symmetrie / East-West symm. / Symm. Est-Ouest / Simm. Est-Ovest / Simetria E-O | | Trapez / Trapezium / Trapèze / Trapezio / Trapecio |

Alignment

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

Service Adjustments

1. Tuner AGC

After replacement or repair of the IF-amplifier or tuner check the Delayed Automatic Gain Control Voltage and re-adjust if necessary.

2. White balance

After replacement of the picture tube, replacement or repair of the picture tube panel, check the white balance and re-adjust if necessary.

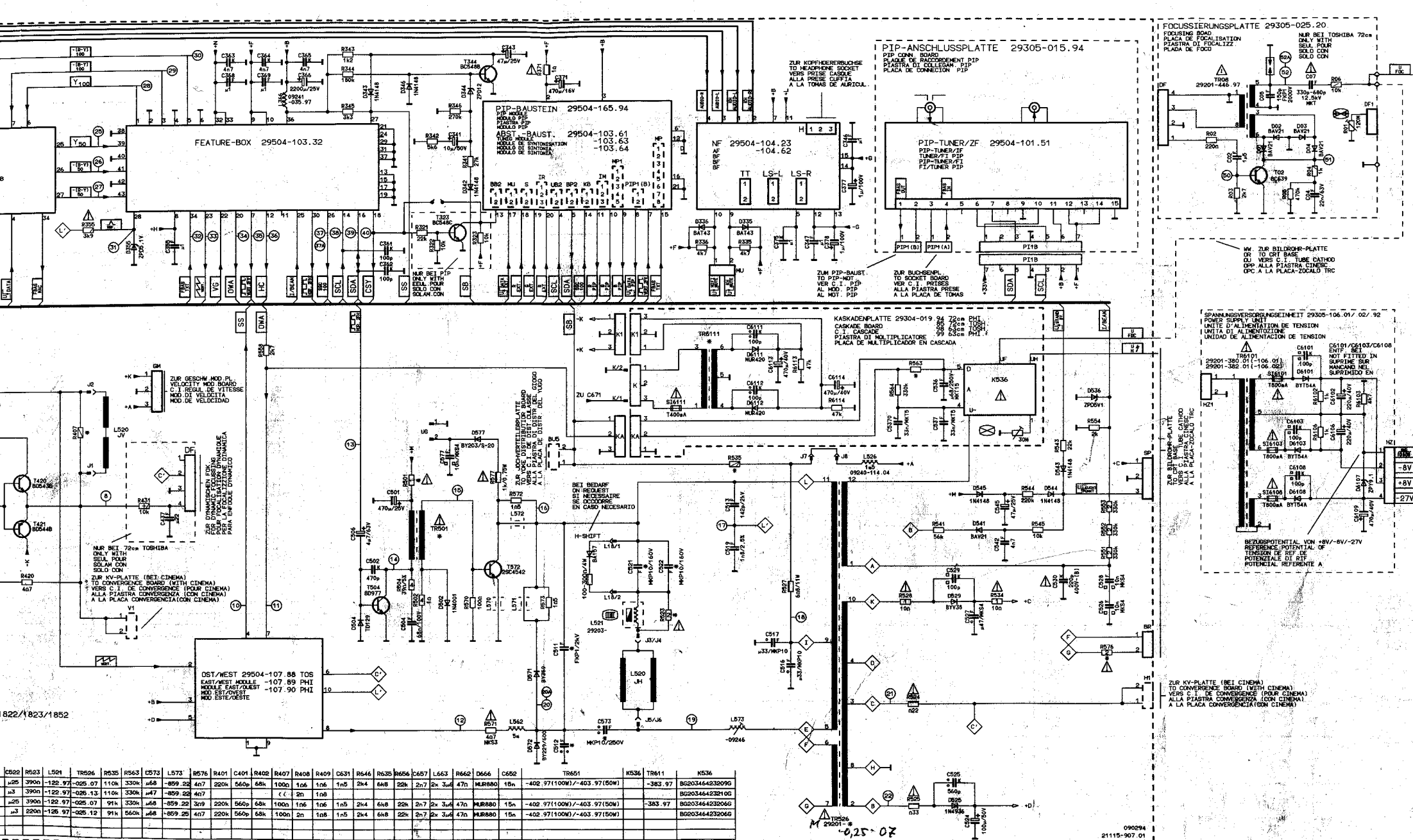
3. Adjustment of the screen grid voltage USG

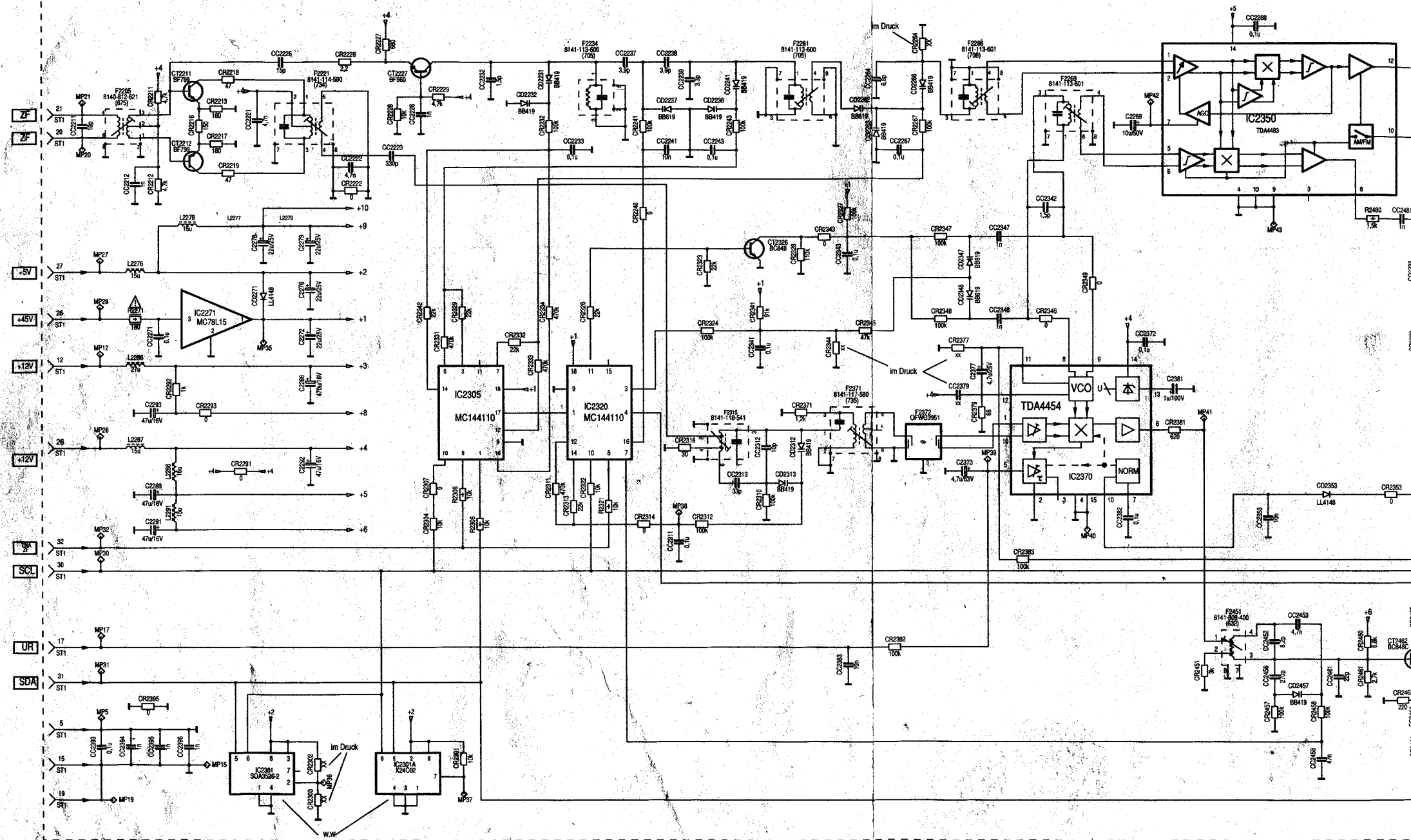
After replacement of the picture tube, replacement or repair of the picture tube panel check the screen grid voltage and re-adjust if necessary.

4. Adjustment of the diode modulator stage

Only necessary in the case of inappropriate changes in the horizontal deflection.

| Alignment | Preparations | Alignment Process |
|---|--|---|
| 1. Tuner-AGC | <p>Feed in a standard test pattern at a channel in the upper range of the UHF Band. The RF should be at least 1.5mV (64dBμV).</p> <p>Call up the "Tuner-AGC" menu via the Service Programme "Info Center" --> "Special Functions" --> "Service" --> "Code Number 8500".</p> <p>The ◀ ▶ buttons can be used to switch over between the options "automatic" or "manual" operation.</p> <p>In automatic operation the control processor will set the correct value for the AGC.</p> | <p>Confirm the selected mode manually with the "OK" button and, with the ◀ ▶ buttons, tune the TV station that noise just begins to appear in the picture. Then tune in the reverse direction until the picture just becomes noise free. Store with "OK".</p> <p>www.telemaster.ru</p> |
| 2. White balance | <p>Call up the "White Balance" menu via the Service Programme "Info Center" --> "Special Functions" --> "Service" --> "Code Number 8500".</p> | <p>With ◀ ▶ set the VG and VB values (amplification green and blue) so that the white rectangular area in the middle of the picture becomes achromatic. Store with "OK".</p> |
| 3. Adjustment of the screen grid voltage U_{sg} | <p>Feed in a test pattern.</p> <p>With the remote control adjust the screen brightness so that the grey areas just become dark.</p> <p>Switch the TV receiver to AV operation.</p> <p>Connect a high-ohmic voltmeter (series resistance approx. 220kΩ) to the test points R, G, B and determine the maximum voltage.</p> | <p>With the control U_{sg} on the picture tube panel set the maximum voltage level to approx. 175V.</p> <p>If retrace lines are visible on the screen reduce the voltage by approx. 10V.</p> |
| 4. Adjustment of the diode modulator stage | <p>The bridge coil L573 is correctly adjusted during production and should not be re-adjusted any more.</p> <p>Call up the "Geometry" menu via the Service Programme --> "Info Center" --> "Special Functions" --> "Service" --> "Code Number 8500".</p> <p>Set the horizontal amplitude to minimum.</p> <p>Connect one test probe of a dual-beam oscilloscope to the collector of the transistor T572.</p> <p>Connect the second test probe between the diodes D571 and D572.</p> | <p>Adjust the coil L573 so that both oscillograms have the same pulse width.</p> <p>Re-adjust the horizontal amplitude according to the test pattern and store.</p> |



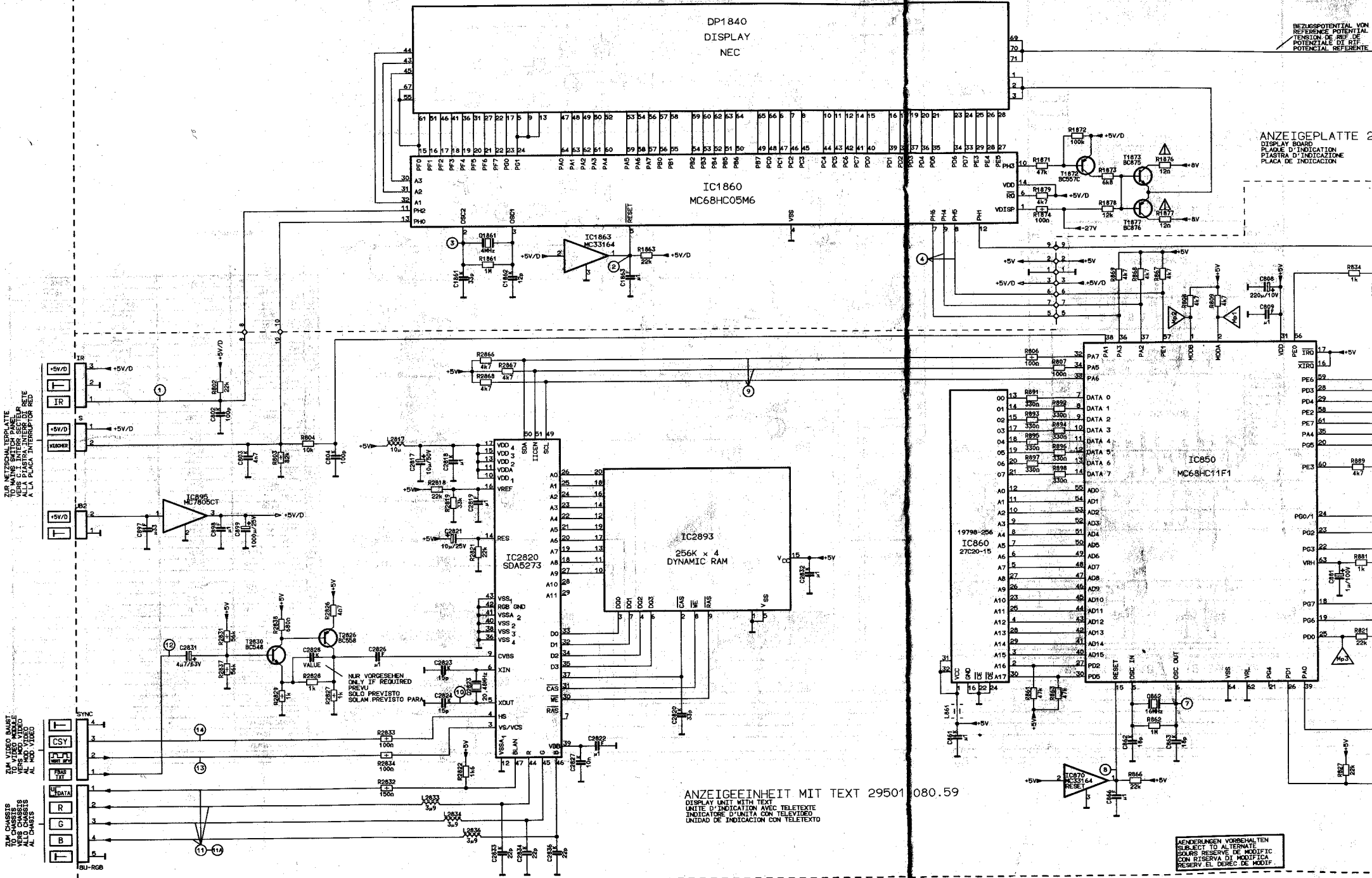


BEZUGSPOTENTIAL VON +5V
 REFERENCE POTENTIAL OF
 TENSION DE REF. DE
 POTENCIAL DE REF.
 POTENCIAL REFERENTE A

ANZEIGEPLATTE 295
 DISPL. UNIT WITH TEXT
 PLAC. D'INDICATION
 PLASTRA D'INDICAZIONE
 PLACA DE INDICACION

ANZEIGEEINHEIT MIT TEXT 29501 080.59
 DISPL. UNIT WITH TEXT
 PLAC. D'INDICATION AVEC TELETTEXTE
 PLASTRA D'INDICAZIONE CON TELETTEXTE
 PLACA DE INDICACION CON TELETTEXTO

ÄNDERUNGEN VORBEHALTEN
 SUBJECT TO ALTERATIONS
 SOUS RESERVE DE MODIFICATION
 CON RISERVA DI MODIFICAZIONE
 RESERV EL DISEÑO DE MODIFICACION



ZUR VIDEO-PLATTE
 TO VIDEO SWITCH PANEL
 A LA PLASTRA INTERRUPTOR DE RETE
 A LA PLACA INTERRUPTOR RED

744 VIDEO-UNIT
 TO VIDEO-UNIT
 A LA PLACA VIDEO
 A LA PLACA VIDEO

744 VIDEO-UNIT
 TO VIDEO-UNIT
 A LA PLACA VIDEO
 A LA PLACA VIDEO

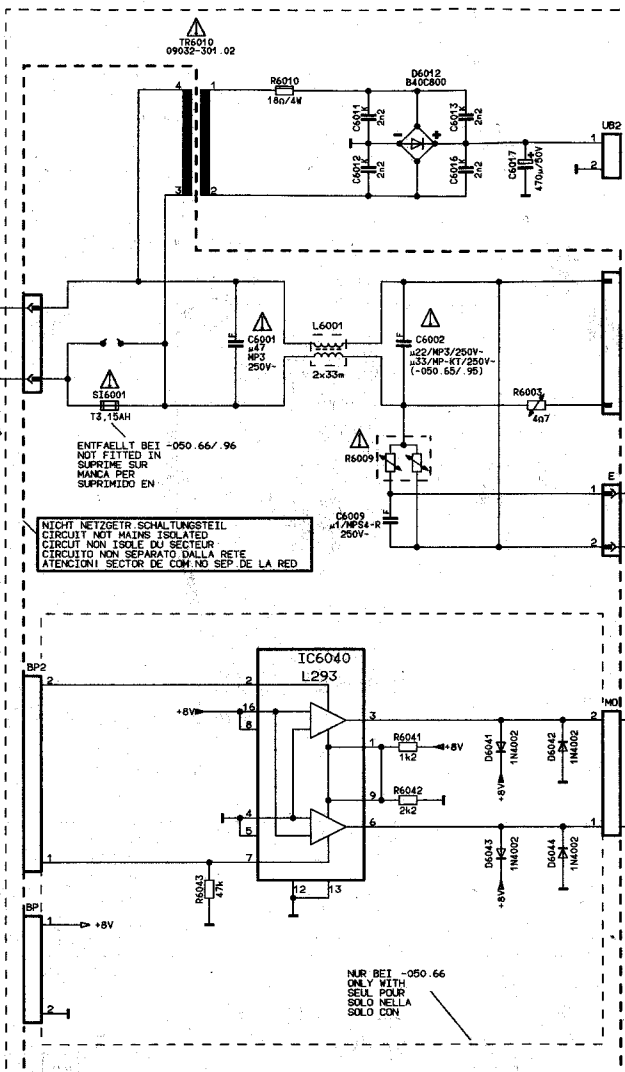
DISPLAY BOARD
 PLAQUE D'INDICATION
 ASTRA D'INDICAZIONE
 ACA DE INDICACION



ZUM ABSTIMMBALSTEIN
TO TUNING MODULE
VERS MOD DE SYNTHONISATION
AL MOD DE SINTONIA

ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL CHASSIS

ENTWÄRMUNG LÖTLING
DECAISSAGE SOLLATION
CHASSIS L'ÉTANNEMENT
CHASSIS L'ÉTANNEMENT



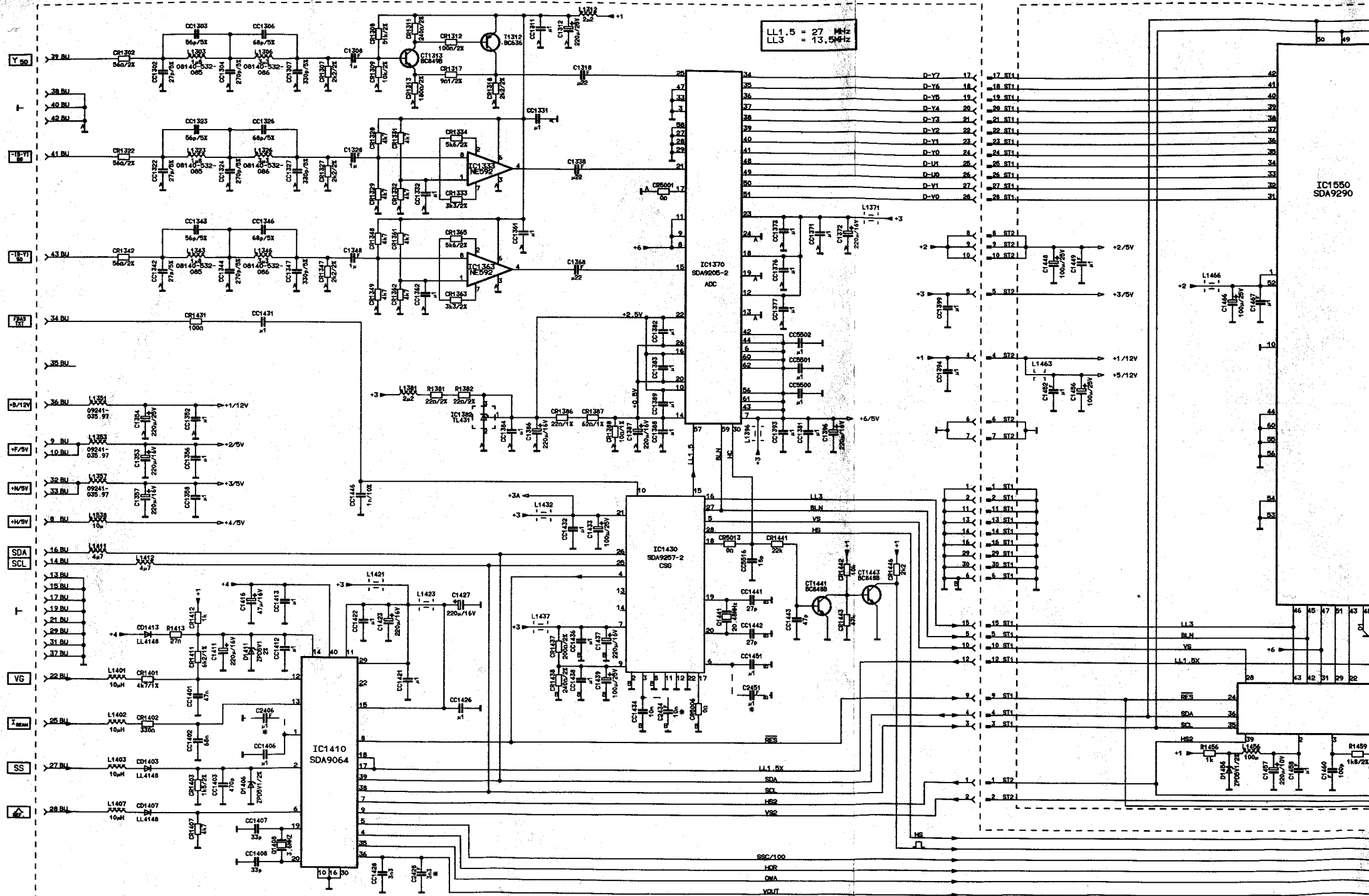
NETZ-ENTSTÖRPLATTE 29304-050.65
MAINS INTERFERENCE ELIMINATION BOARD -050.66
C.T. ANTIPARASITAGE DE SECTEUR -050.67
PIASTRA DI RETE ANTIDISTURBI
PLACA DE RED ANTIPARASITA

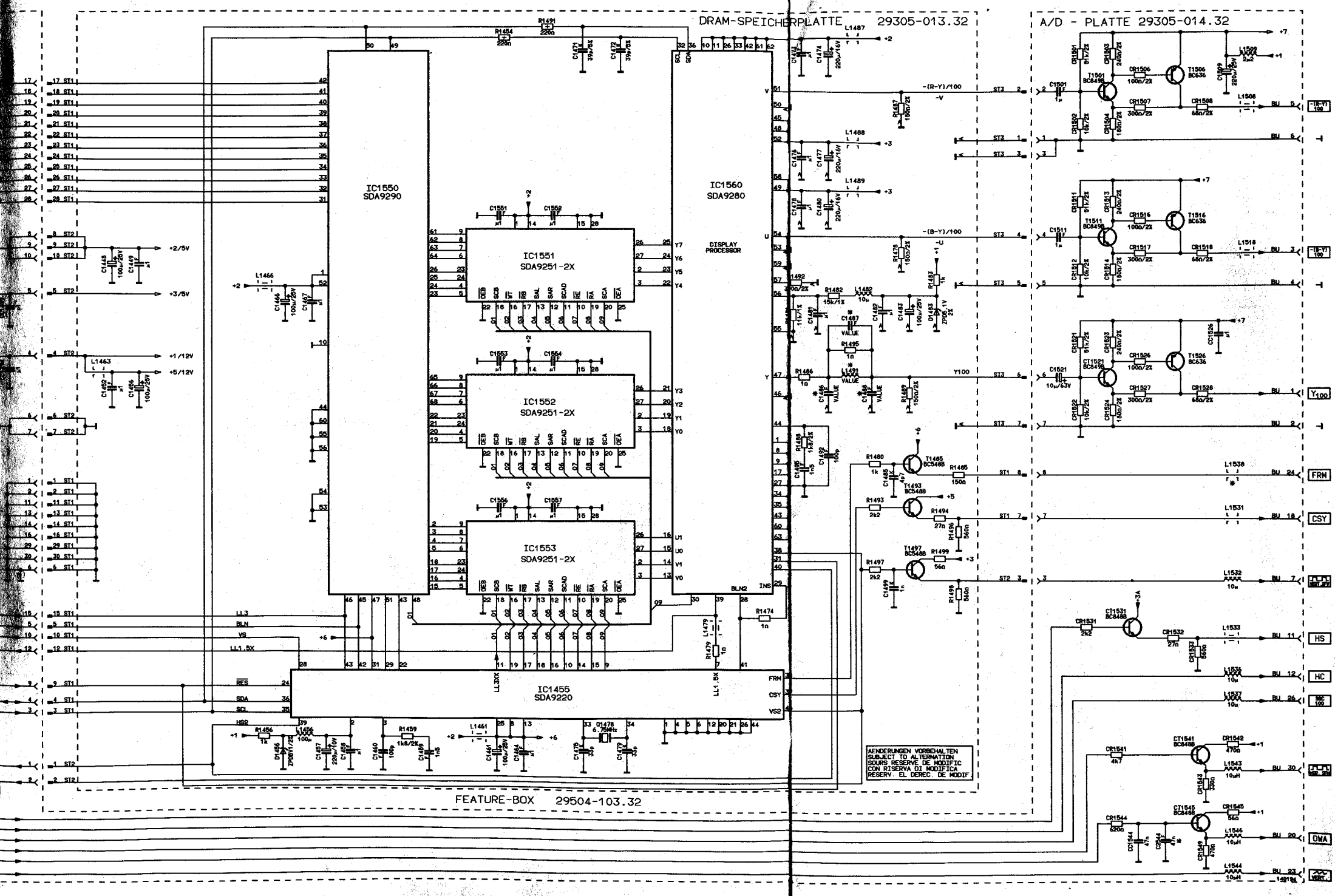
NETZENTSTÖR-EINHEIT 29304-050.95
MAINS INTERFERENCE ELIMINATION UNIT -050.96
UNITÉ ANTIPARASITAGE DE SECTEUR -050.97
PIASTRA DI RETE ANTIDISTURBI
PLACA DE RED ANTIPARASITA

KEYBOARD
CLAVIER
TASTIERA
TECLADO



210194





DRAM-SPEICHERPLATTE 29305-013.32

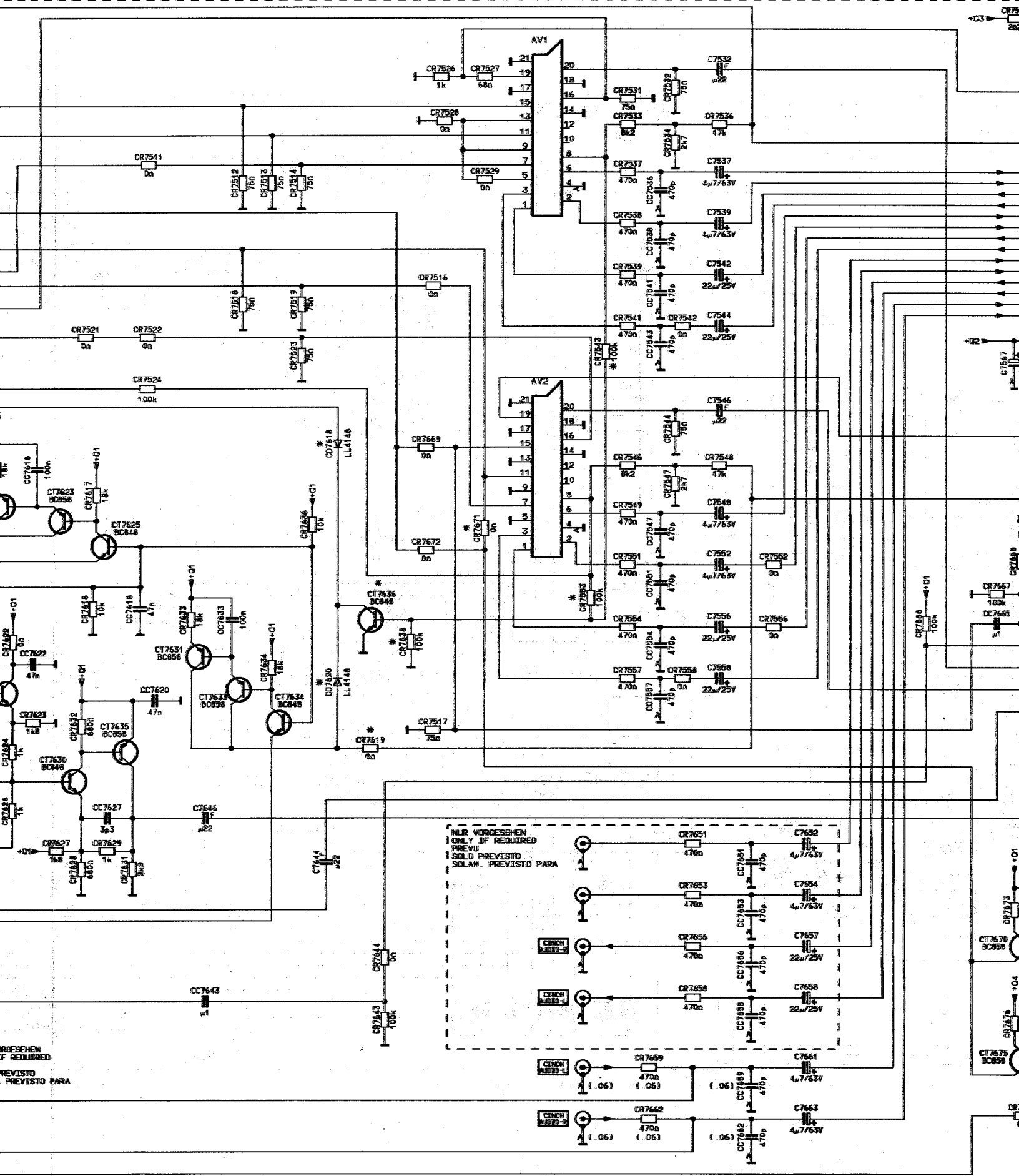
A/D - PLATTE 29305-014.32

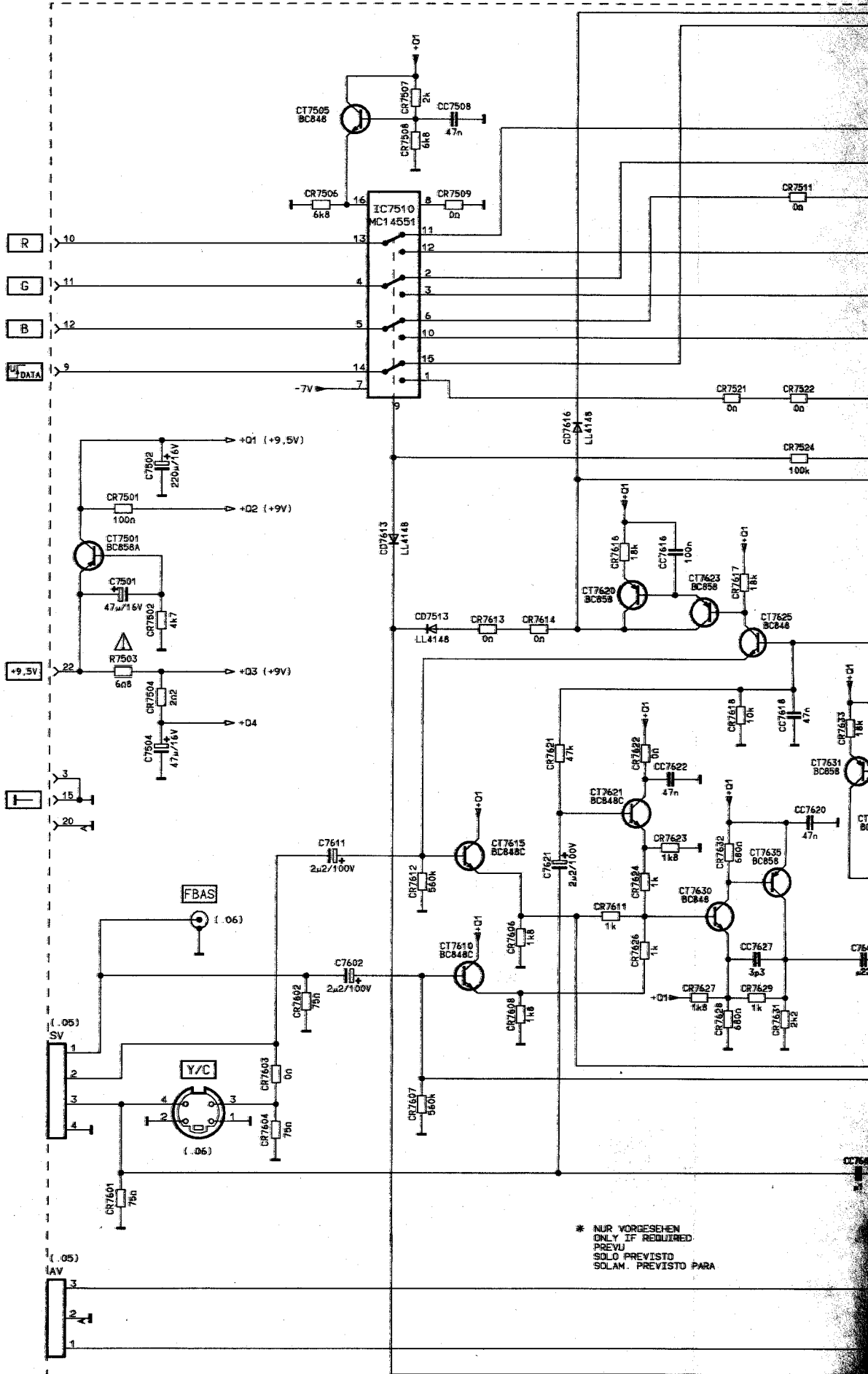
FEATURE-BOX 29504-103.32

ÄNDERUNGEN VORBEHALTEN
SUBJECT TO ALTERATION
SOUS RESERVE DE MODIFIC
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RESERV EL DERECH. DE MODIF.

SOCKET BOARD
C.I. PRISES
PIASTRA PRESE
PLACA DE TOMAS

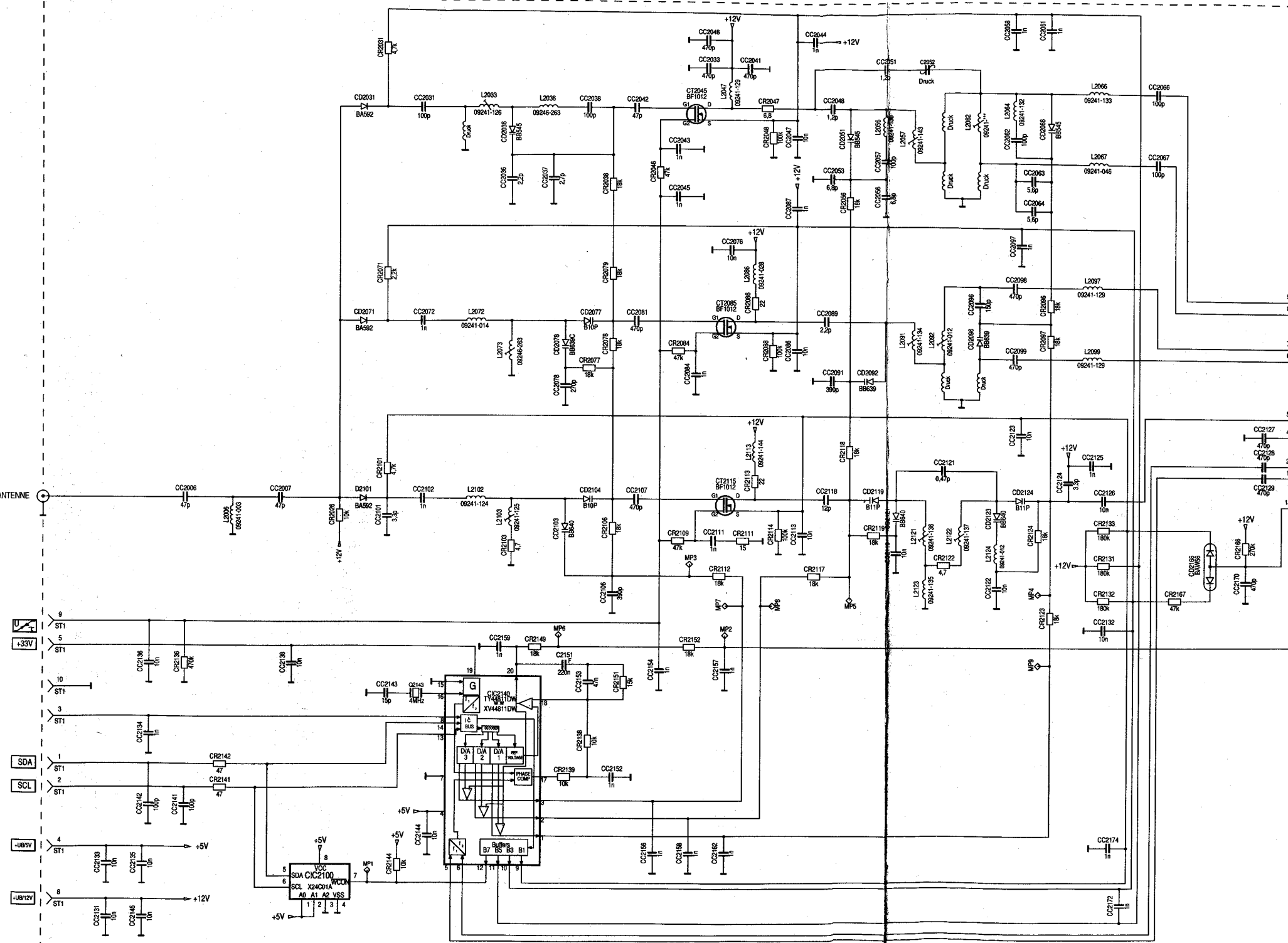








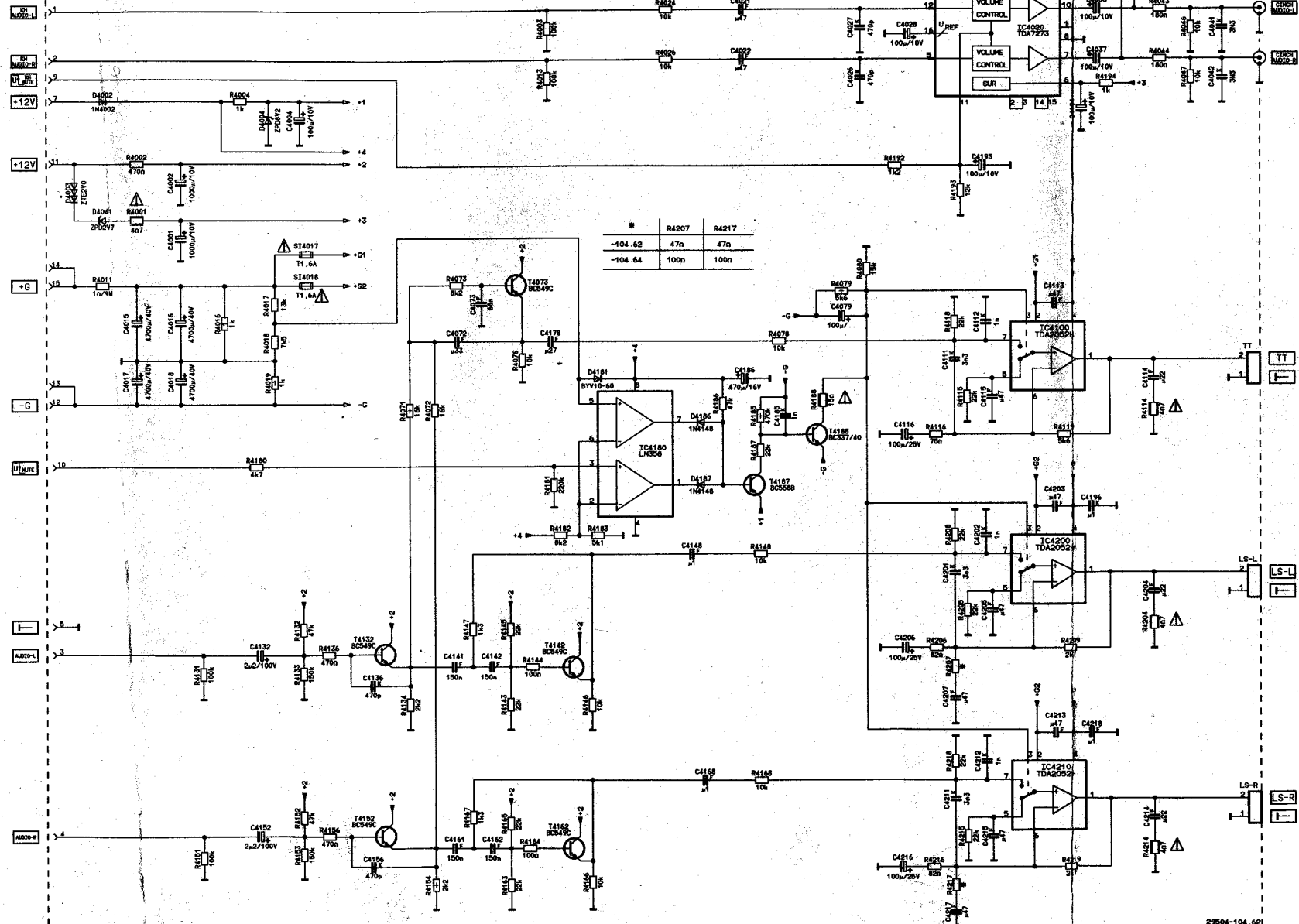


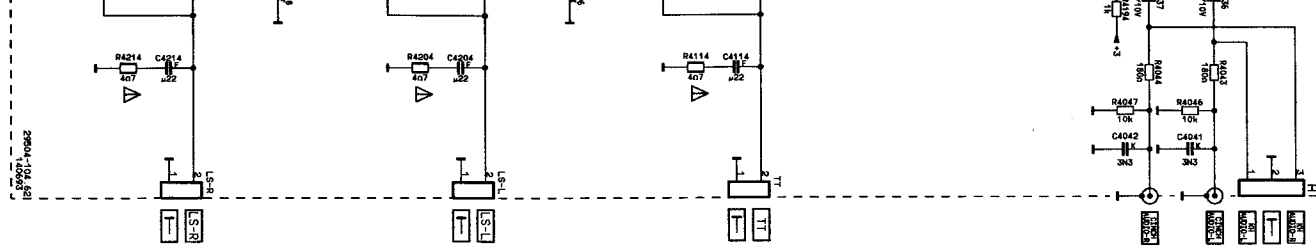


NF-VERSTAERKER 29504-104.62 100WATT

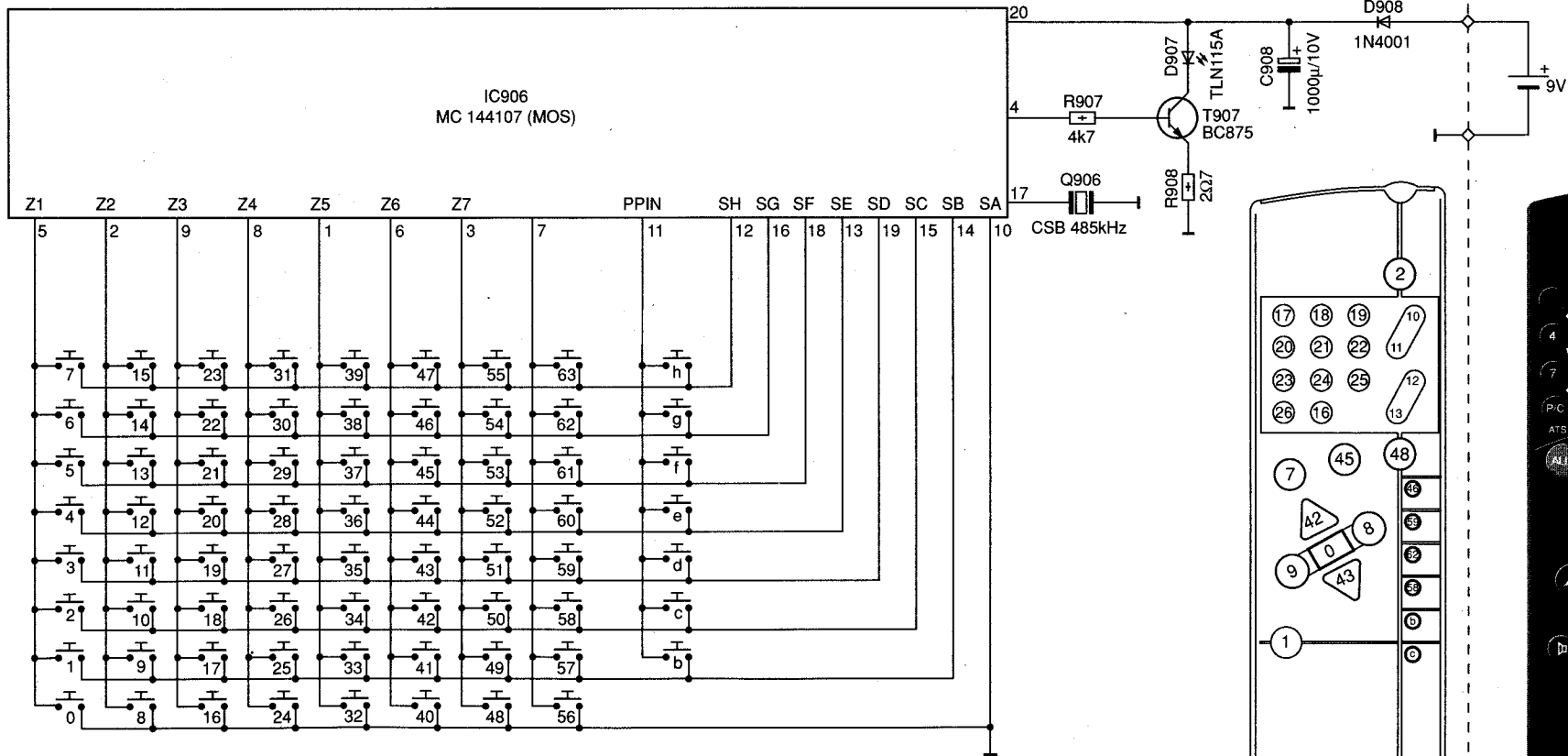
AF-AMP-VERSTÄRKER
-104.64

AMPL. DE BF

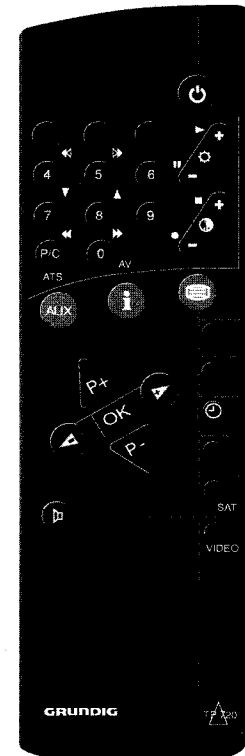
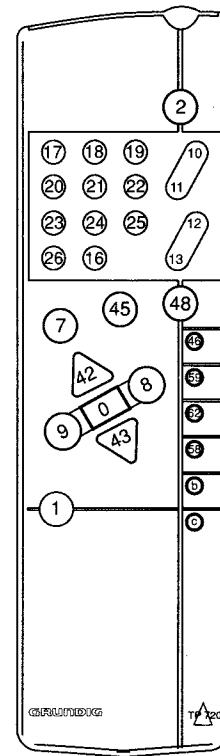


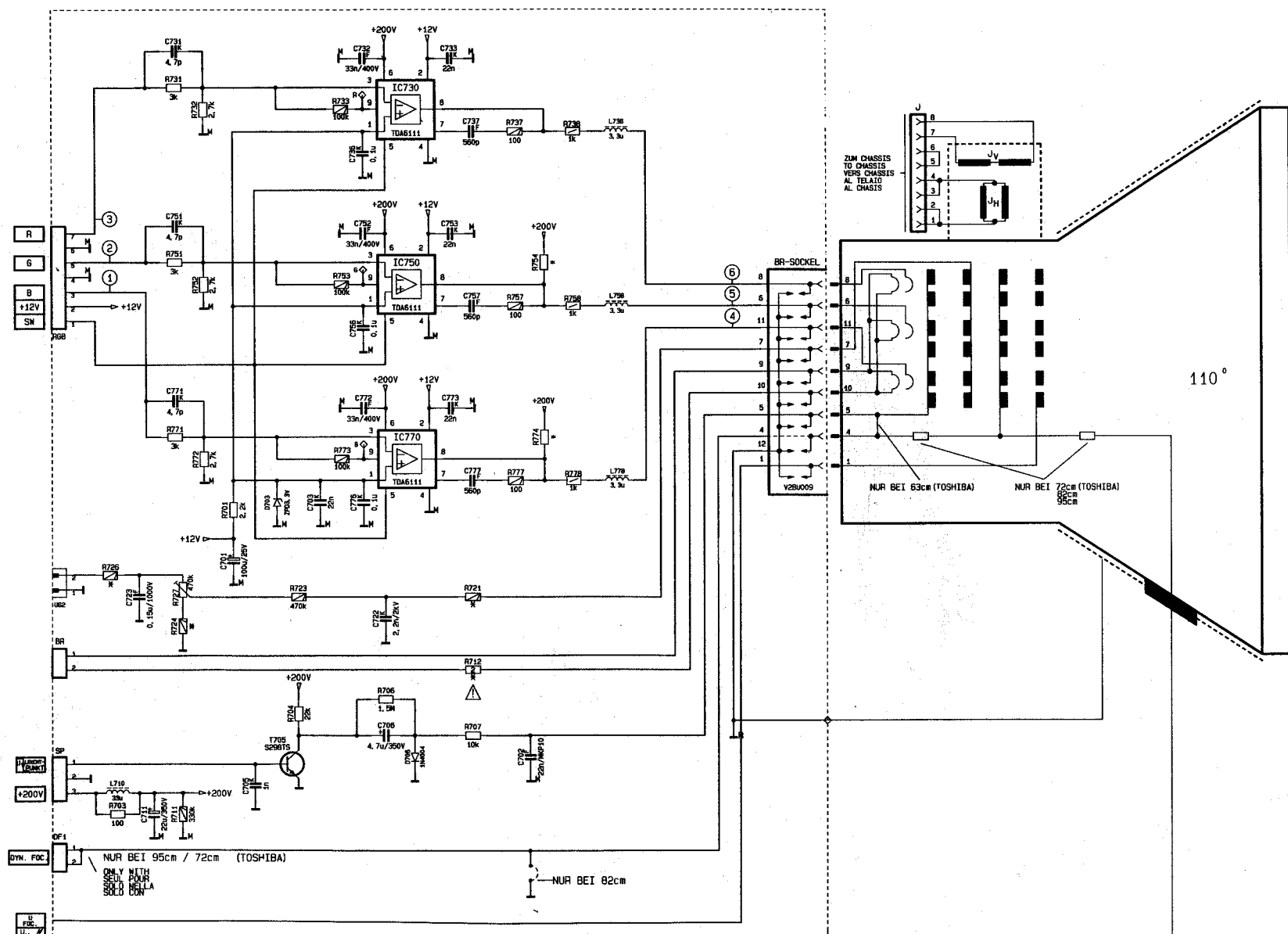


FERNBEDIENUNG 29622-059.06
 REMOTE CONTROL
 TELE COMMANDE
 TELECOMANDO
 TELE MANDO



KEYBOARD 29304-779.02
 CLAVIER
 KEYBOARD
 TECLADO





110°

BILDROHRPLATTE

CRT PANEL
LINE CATHOD.
PISATRA CINESC.
PLACA-ZOCALO TRC

29305 - 022.3x (82cm)
29305 - 022.3x (95cm)
29305 - 022.31 (72cm/TOSHIBA)
29305 - 022.37 (72cm/PHILIPS)
29305 - 022.38 (63cm/TOSHIBA)
29305 - 022.39 (63cm/PHILIPS)

ÄNDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOUSS RESERVE DE MODIFIC
CON RESERVA DE MODIFIC
RESERV. EL DEPEC. MODIFIC.

| N | R721 | R712 | R726 | R724 | R754 | R774 |
|---------|------|--------|------|------|------|------|
| -022.3x | 10k | ●—● | | | | |
| -022.3x | 270 | ●—● | | | | |
| -022.31 | 10k | ●—● | 120k | 470k | 3.9M | 2.7M |
| -022.37 | 10k | 4.7/2W | 47k | 680k | - | - |
| -022.38 | 10k | 5.6/2W | 120k | 470k | 3.9M | 2.7M |
| -022.39 | 10k | 5.1/2W | 47k | 680k | - | - |

VELOCITY MODULATION BOARD
PLAQUE REGULATEUR DE VITESSE
PIASTRA MODULATORE DI VELOCITA
PLACA MODULADOR DE VELOCIDAD

