

Matrix



| Item | See Model | Book |
|-------------------------------------|-----------------------|------|
| Service Notes (See Notes) | Grundig G1000 Chassis | 4 |
| X-Ray Precautions (See Notes) | Grundig G1000 Chassis | 4 |
| Circuit Diagram Symbols | Grundig CUC 1982 | 5 |
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Recommended Safety Parts

| Item | Part No. | Description |
|----------------------------|--|--|
| E72 9112 | | |
| WW. | 09246-188.31 09246-188.71 8300-068-696 29201-360.11 29703-291.81 8290-991-356 29201-361.17 29305-022.26 8766-701-027 | Degaussing Coil Degaussing Coil Pict. Tube A 68 KZN 696X01 CRT Socket Power Switch Power Cable Focus-UG 2 Control CRT Board CUC 7800 KSW SI A 12 OHM 5% -GA |
| R 816, R 817 ST72 760/9 | 09246-188.31 09246-188.71 8300-068-696 29201-360.11 29303-452.03 29703-291.32 8290-991-361 29201-361.17 8765-049-157 | Degaussing Coil Degaussing Coil Pict. Tube A 68 KZN 696X01 CRT Socket Mains Plug - Lower Part Power Switch Power Cable Focus Control Unit MSW AX 0414-GA 3,3 MOHM |
| WW. | 09246-188.31 09246-188.71 8300-068-696 29201-360.11 29303-452.03 29703-291.32 8290-991-361 29201-361.17 8765-049-157 | Degaussing Coil Degaussing Coil Pict. Tube A 68 KZN 696X01 CRT Socket Euro-Converter Bracket Plug 2-POL Mains Plug - Lower Part Power Switch Power Cable Focus Control Unit MSW AX 0414-GA 3,3 MOHM |
| R 1850 ST63 760/9 | 09246-188.71 8300-059-696 29201-360.11 29201-471.01 29303-377.03 29303-452.03 29703-291.32 8290-991-361 29201-361.19 8765-049-157 | Degaussing Coil Pict. Tube A 59 LCG 696X01 CRT Socket Euro-Converter Bracket Plug 2-POL Mains Plug - Lower Part Power Switch Power Cable Focus Control Unit MSW AX 0414-GA 3,3 MOHM |
| R 1850 CUC 7861 | 29304-050.95 09621-113.02 8531-505-221 8660-098-238 8660-098-238 8660-098-234 8515-912-063 8511-793-047 8511-793-045 29500-809.97 8306-000-012 8306-000-012 8701-230-817 8705-329-071 8735-003-068 8705-227-423 8700-329-009 8766-349-155 8311-200-010 8315-616-205 8315-616-205 8315-616-205 8315-619-028 8315-622-025 8315-623-008 8315-622-503 29201-445.97 29201-382.97 29201-030.08 09032-301.02 29201-408.97 29201-453.08 | Mains Interference Unit Fuse Holder MKT 680PF 20% 12,5KV SI-KERKO B-SS 2200PF 20% SI-KERKO B-SS 2200PF 20% SI-KERKO B-SS 1000PF 20% FKP1 0,033UF 20% 630V MP 3 0,47 UF 20% 250VW MP 0,33 UF 20% 250VW FUNKENSTOERDR OPTOKOPPLET CNY 17 F1 OPTOKOPPLET CNY 17 F1 NKS 3 4,7 OHM 5% ROE MOW LI 0411 820 OHM 5% DW 0,75W 0,68 OHM 10% MOW AX0411-GA 8,2 OHM 5% DRA 22 KSW LI 0207-NE 2,2 OHM MSW LI 0414 2,7 MOHM DUO-PTC LOET-SI.-GR 800 MA/T LOET-SI.-GR 800 MA/T LOET-SI.-GR 800 MA/T LOET-SI.-GR 1.6 A/T LOET-SI.-GR 3,15 A/T LOET-SI.-GR 4 A/T FS.3,15 A/T H 250V FOKUSIERUEBERTRAGER UEBERTRAGER EF20 DIODENSPLITTRAO KPL NETZTRAFO SPERRWANDLERTRAFO KPL SPERRWANDLERTRAFO KPL |
| C 7 | 8531-505-221 | Mains Interference Unit |
| C 621 | 8660-098-238 | Fuse Holder |
| C 622 | 8660-098-238 | MKT 680PF 20% 12,5KV |
| C 665 | 8660-098-234 | SI-KERKO B-SS 2200PF 20% |
| C 666 | 8515-912-063 | SI-KERKO B-SS 1000PF 20% |
| C 6001 | 8511-793-047 | FKP1 0,033UF 20% 630V |
| C 6002 | 8511-793-045 | MP 3 0,47 UF 20% 250VW |
| L 6001 | 29500-809.97 | MP 0,33 UF 20% 250VW |
| OK637 | 8306-000-012 | FUNKENSTOERDR |
| OK646 | 8306-000-012 | OPTOKOPPLET CNY 17 F1 |
| R 503 | 8701-230-817 | OPTOKOPPLET CNY 17 F1 |
| R 520 | 8705-329-071 | NKS 3 4,7 OHM 5% ROE |
| R 525 | 8735-003-068 | MOW LI 0411 820 OHM 5% |
| R 551 | 8705-227-423 | DW 0,75W 0,68 OHM 10% |
| R 552 | 8700-329-009 | MOW AX0411-GA 8,2 OHM 5% DRA 22 |
| R 665 | 8766-349-155 | KSW LI 0207-NE 2,2 OHM |
| R 6009 | 8311-200-010 | MSW LI 0414 2,7 MOHM |
| SI 401 | 8315-616-205 | DUO-PTC |
| SI 406 | 8315-616-205 | LOET-SI.-GR 800 MA/T |
| SI 411 | 8315-616-205 | LOET-SI.-GR 800 MA/T |
| SI 630 | 8315-619-028 | LOET-SI.-GR 1.6 A/T |
| SI 671 | 8315-622-025 | LOET-SI.-GR 3,15 A/T |
| SI 691 | 8315-623-008 | LOET-SI.-GR 4 A/T |
| SI 6001 | 8315-622-503 | FS.3,15 A/T H 250V |
| TR 8 | 29201-445.97 | FOKUSIERUEBERTRAGER |
| TR 410 | 29201-382.97 | UEBERTRAGER EF20 |
| TR 526 | 29201-030.08 | DIODENSPLITTRAO KPL |
| TR 6010 | 09032-301.02 | NETZTRAFO |
| TR 651 | 29201-408.97 | SPERRWANDLERTRAFO KPL |
| WW. | 29201-453.08 | SPERRWANDLERTRAFO KPL |

(WW. = Optional)

Service Adjustments

Service and Special Functions

1: Switching-on Options

ATS Reset

Press and hold the L+ button on the local keyboard while switching on with the mains button to set the ATS-bit. This option activates the ATS function next time the receiver is switched on.

ATS Start

Pressing the buttons "P/C" (approx. 4 secs.) --> OK (language selection menu) --> starts the Auto Tuning System (ATS).

When finding a TV signal, the ATS system automatically determines the fine tuning value and the VPS signal for the station ident. Additionally for the programmes 1 ... 99 the volume offset is reset and the optimum values for brightness, colour contrast and volume level are stored together with the Peri bit for the respective country.

Loading the Average Values

Press and hold the "P-" button on the local keyboard and switch the TV on with the mains button. In doing so the analog average values for the programmes 1 - 99 and AV1 - AV4 are

loaded in the programme memory IC840, the Luminance Delay is set to "0". The individual settings can be entered and stored with the remote control handset.

Emergency Data

The processor IC850 in this TV receiver is fitted with two memories in which the picture geometry data is stored. If this IC fails or the data has been changed the TV receiver **must** be switched on with the emergency data set.

Loading the Emergency Data (eg. after changing mP IC850)

Connect pin 2 of the processor to chassis and switch the TV on with the mains button. The EEPROM in the processor IC850 is loaded with:

- the basic data set and the geometry data for the Decoder/Sync Processor TDA 9160/9162.
- the basic data set for the RGB Processor TDA 4685.
- the AGC reference voltage (tuner gain control).
- the AFC reference voltage (PLL-control).

2: Settings Via the Info Menu

EPROM Version Number

The version number can be called up in the Info Menu with the "AUX" button. The index 05 of the part number (19798-254.05) indicates the EPROM version.

Programme Lock

(protection against unauthorised use)

You can cancel your personal code number by pressing **▶ ◀ ▽ ▲** and OK sequentially.

One place/Two Place Programme Selection

Via the Menu Info Centre --> Special Functions --> Settings, Programme Selection can be switched over between 1 - 9 and 1 - 99.

Maximum Programme Number

Via the Menu Info Centre --> Special Functions --> Settings. When storing the channel number "00" at any programme position, programme selection with the **▽ ▲** buttons is limited to the numbers lower than this position.

OSD-ON/OSD-OFF - all programmes.

The on screen display can be switched on or off via the Menu Info Centre --> Special Functions --> Settings --> Pict./Sound Options. When selecting the OSD-OFF option the station identifications and scales for the analog values is switched off.

Volume Offset

Via the menu --> Special Functions --> Settings the volume level can be changed in 16 steps for each individual programme position.

3: Settings via the Audio Menu

The following settings can be changed with the Audio Menu:

- **Loudspeaker:** Mono/Stereo sound
- **Headphones:** Mono/Stereo sound
- **Equaliser:** frequencies 1 ... 12kHz
- **Configuration** of loudspeaker boxes
- **Effect sounds** with the IDTV button (effect sound fields menu).

Switching Over the Sound (only multi system) to:

Stereo, Mono, FM, NICAM, NICAM B

Via the Audio Menu --> Sound. Switch the stereo decoder for the desired sound reception with **▶ ◀** buttons.

FM-sound stereo broadcast:

- Switchable between Stereo <--> Mono
- Two-channel sound: switchable between Sound 1 <--> Sound 2.

The sound for the loudspeakers and headphones can be switched over independently of each other.

NICAM-sound mono broadcast:

- switchable between NICAM Mono <--> FM-Mono

NICAM-sound stereo broadcast:

- switchable between NICAM Stereo <--> FM-Mono

NICAM-sound dual-sound broadcast:

- switchable to NICAM-sound 1 --> NICAM-sound 2 --> FM-Mono

NICAM not relating to the picture:

- switchable to NICAM-sound 1 --> NICAM-sound 2 --> FM-Mono, preferred sound is FM-Mono

AV mode:

- Stereo (preferred setting) --> Sound 1 --> Sound 2
- With Sound 1 and Sound 2, the sound for the loudspeakers and headphones can be switched over independently of each other.

4: Settings via the Station Ident

Select the menu Info Centre --> TV station Table and activate the desired TV station.

OSD-ON/OSD-OFF Individual Programmes

Note: only TVs with LED display.

Enter a decimal point "." at the first place of the station identification. With this setting the display can be switched off for the individual programmes.

The first places of the station identification can be filled with any kind of characters.

Forced Switching to Mono

Example: **MONO**
Indication: **ARD**

The stereo decoder is made to remain in the FM-Mono mode. This function is advantageous in the case of stereo broadcasts in poor reception conditions.

Automatic Frequency Control

AV or AF

The TV tuner is automatically re-tuned according to the variations of the receiving frequency which is advantageous when feeding in the video signal via the aerial socket.

Forced Switching to SECAM

SECAM or SE

Colour errors may occur when operating the TV with Canal-plus decoders in SECAM standard. These errors can be eliminated by forced switching to SECAM.

5: Settings via the AUX Position

The "AUX" command initialises an input mode in which certain commands are interpreted differently. This mode remains active for about 4 secs. unless another command is entered. The indication "AUX" is shown on the screen for 4 secs.

Changing the Display Brightness (VFD display only)

Press the "AUX" button --> buttons sequentially.

Setting the Peri Bit

"AUX" --> "0/AV".

With the PERI-bit set, the control processor evaluates the switching voltage on pin 8 of the EURO-AV-socket AV1 (black) and switches the TV receiver to this input, eg. on descrambler operation. The Peri symbol illuminates in the display of the keyboard unit.

Switching over the descrambler:

- Descrambler off
- Descrambler on Auto (Peri bit set)
- Descrambler on Stereo (Peri bit set)
- Descrambler on Mono - L (Peri bit set)
- Descrambler on Mono - R (Peri bit set)

Copy Function

In operating mode:

- Select first the AV signal source eg. AV1, AV2 etc.
- On: "AUX" --> "0/AV" indication "Copy on"
- Off: "AUX" --> "0/AV" indication "Copy off"

Copying possibilities:

| From | To |
|-------------------|----------------------------------|
| AV1 (black) | --> AV2 (orange) and AV3 (blue). |
| AV2 (orange) | --> AV3 (blue). |
| AV3 (blue) | --> AV2 (orange). |
| AV4 (CCVS-socket) | --> AV2 (orange) and AV3 (blue). |
| AV5 (S-VHS) | --> AV2 (orange) and AV3 (blue). |

Please take into account the following restrictions:

- Peri operation is not possible when AV1 is used as a signal source.
- Switching over to the AV2 or AV3 programme is only possible if the selected AV position and the signal source are the same.

Copy function In stand-by mode:

(not for OSD-TV's).

Firstly select the AV signal source eg. AV1, AV2 etc.

- On: "AUX" --> "0/AV" (Indication "Copy on".)
 - Buttons "AUX" --> " " (Indication "COP" in the display.)
- Copying possibilities are the same as before.

Attention: In Copy Standby-Mode the switched-mode power supply is not switched off.

De-activation of the copy-mode:

(not for OSD-TV's).

To cancel the copy mode:

- Press standby or power switch off.

Changing the headphone volume

Enter "AUX" --> **▶ ◀** changes the volume level for headphones.

Switching to mono --> stereo sound

"AUX" --> activates the sound switching function: Mono --> Stereo --> Mono A --> Mono B etc.

6: IR-Data Programmer

With this menu and the IR-Data Programmer 2, it is possible to transfer a maximum of 99 programme positions with the data for the TV norm, Peri, 6-place station identification, the fine tuning centre frequency and the volume offset "0". The Programmer AP transfers only channels and 4-place station identifications and the volume offset "0".

Call up via the Menu Info Centre --> Special Functions --> IR-Data Programmer.

Attention: The data transfer can be affected by interference's from electrical lighting fixtures.

7: Autom. Change between 4:3/16:9 Aspect Ratio

With the setting "Format 4:3/16:9 auto" the aspect ratio is switched over automatically - in programme positions 1 ... 99 when the decoder is set to "ON" - in AV position or with the Peri-bit set, when a 16:9 signal source is connected to the AV1 socket.

Identification:

- 16:9 switching voltage at the AV1 source, Pin 8 = 6V.
- 4:3 switching voltage at the AV1 source, Pin 8 = 12V.

8: Setting the Analog Values

When exceeding the minimum acceptable values for the brightness, colour contrast and volume level specified in the table below, the appropriate optimum value is initialised when switching the TV on or changing from RF value AV.

| | Minimum value | Optimum value |
|-----------------|---------------|---------------|
| Brightness | 18 | 32 |
| Colour contrast | 24 | 40 |
| B/W contrast | 21 | 32 |
| Volume | 10 | 10 |

Alignment

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

1. Chassis Board

Measuring Instruments:
Oscilloscope with 10:1 test probe
Colour test pattern
High resistance voltmeter.

Checks and adjustments after replacement or repair of:

| | |
|-------------------------|--------------------|
| Power Supply: | 1.1 |
| Horizontal Deflection: | 1.2, 1.4, 1.8, 1.9 |
| Picture Tube/CRT Panel: | 1.2, 1.7 |
| Colour-Decoder | |
| Sync. Module: | 1.7 |
| IF Amplifier, Tuner: | 1.5 |
| Tuning Module: | 1.6, 1.8 |
| Vertical Deflection: | 1.9 |

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

1.1: Alignment

+A Voltage

Preparation

Set luminance to minimum.
Connect the voltmeter to the cathode of D681.
Alignment Process
Set the control R654 to the voltage 152V.

1.2: Alignment

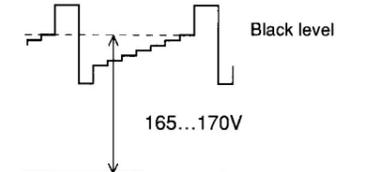
Screen grid voltage U_{SG}

Preparation

Feed in a test pattern.
With the remote control adjust the screen brightness so that the grey areas just become dark. Switch the TV receiver to AV operation. Connect a high-ohmic voltmeter (series resistance approx. 220 W) to the test points R, G, B and determine the maximum voltage.

Alignment Process

With the control SG on the picture tube panel set the maximum voltage level to approx. 165 ... 170V.
If retrace lines are visible on the screen reduce the voltage by approx. 10V.



1.3: Alignment

Bridge coil L551

Preparation

The bridge coil L551 is correctly adjusted during production and should not be readjusted anymore.
Call up the Service Programme --> Info Centre --> Special Functions --> Service --> Code 8500 --> Geometry.
Set the horizontal amplitude to minimum. Connect channel one an oscilloscope to the collector of the transistor T572. Connect channel two of an oscilloscope between the diodes D502 and D503.

Service Adjustments Cont'd.

1.4: Alignment

Line sharpness

Preparation

Select the convergence test pattern. Contrast to maximum. Set the brightness so that the black background of the test pattern is just brightening.

Alignment Process

With the focus control adjust the horizontal lines for maximum sharpness.

Attention: For measurements on the focusing panel use only sufficiently insulated measuring cables and test probes with adequate electric strength (eg. 100:1).

1.5: Alignment

Tuner-AGC. Manual or Automatic.

Preparation

Manual: Feed in a standard test pattern in the upper range of the UHF band; the RF must be 1.5mV (64dBmV, noise free picture) at least. Info Centre --> Special Functions --> Service --> Code 8500 --> Tuner-AGC --> Manual.

Automatic:

Info Centre --> Special Functions --> Service --> Code 8500 --> Tuner-AGC --> Automatic.

AFC-Reference:

Info Centre --> Special Functions --> Service --> Code 8500 --> AFC-Reference.

Tune to a local station on a channel as low as possible at the desired programme position with standard channel spacing without fine tuning.

Not For Servicing.

Alignment Process

Manual:

With buttons - and + tune the TV station so that noise just starts to appear in the picture. Then tune in reverse direction until the picture becomes noise free. Store with OK.

Automatic:

The control processor will set the optimum value for the delayed gain control voltage. Activate with button OK.

AFC-Reference:

On activation of AFC Reference Automatic a rectified IF-voltage is measured at the AFC output of the IF amplifier which is used on station search as a comparative value for VCR-RF playback (station identification "AV") to readjust the modulator drift. Activate with OK.

No function for the buttons - and +.

1.6: Alignment

Colour match.

Preparation

Call up the programme position of the desired TV station. Info Centre --> Special Functions --> Settings --> Colour Match.

Alignment Process

Adjust with - and + buttons to make the signals coincide. Store with OK.

1.7: Alignment

White balance

Preparation

Call up the White Balance menu via the Service

Programme Info Centre --> Special Functions --> Service --> Code 8500.

Alignment Process

With - and + set the VG and VB values so that the white rectangular area in the middle of the picture becomes achromatic. Store with OK.

1.8: Alignment

Picture sharpness

Preparation

Call up the programme position of the desired TV station. Info Centre --> Picture Menu --> Sharpness.

Alignment Process

Change the value with the buttons - +.

1.9: Alignment

Picture geometry

Preparation

Info Centre --> Special Functions --> Service --> Code 8500 --> Geometry. For accurate adjustment of the picture a generator or standard test pattern should be used. The integrated test pattern or grid pattern may also be used.

Attention: Start always with the "V-Middle" adjustment otherwise the other vertical deflection parameters would defy correct geometry adjustment.

Alignment Process

Via the menu, select the geometry values for the vertical deflection, then set the values for the horizontal deflection.

Preparation

"V-Middle" adjustment with a colour test pattern: select the "V-Middle" menu. The upper part of the picture is coloured the lower part is black and white.

Alignment Process

With the - or + button move the three broken lines on the left and on the right of the indication "V-Middle" upwards or downwards so that they coincide with the line separating the coloured part and B/W part of the picture. Continue with the picture geometry adjustment via the menu and store.

Preparation

"V-Middle" adjustment with a video generator, eg. Grundig VG 1000. Feed in the convergence test pattern with standard colour bars via RF. To store this adjustment move the bar to "Terminate with Store" and confirm with OK.

Alignment Process

With the - or + button change the setting so that the G-Y vector (orange area in the centre of the picture) is just covered. Continue with the picture geometry adjustment via the menu and store.

Preparation

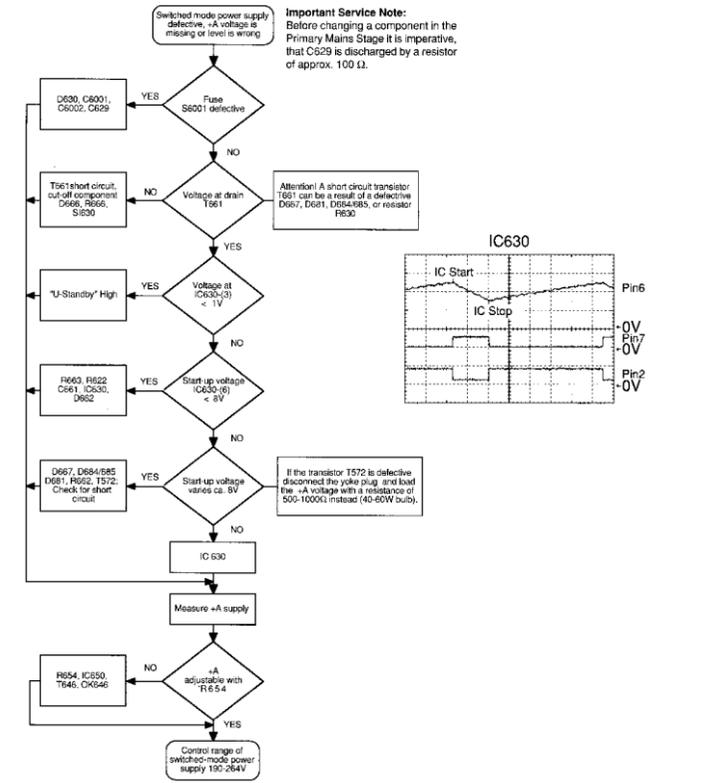
The picture geometry is set to the last stored value whenever the receiver is switched on.

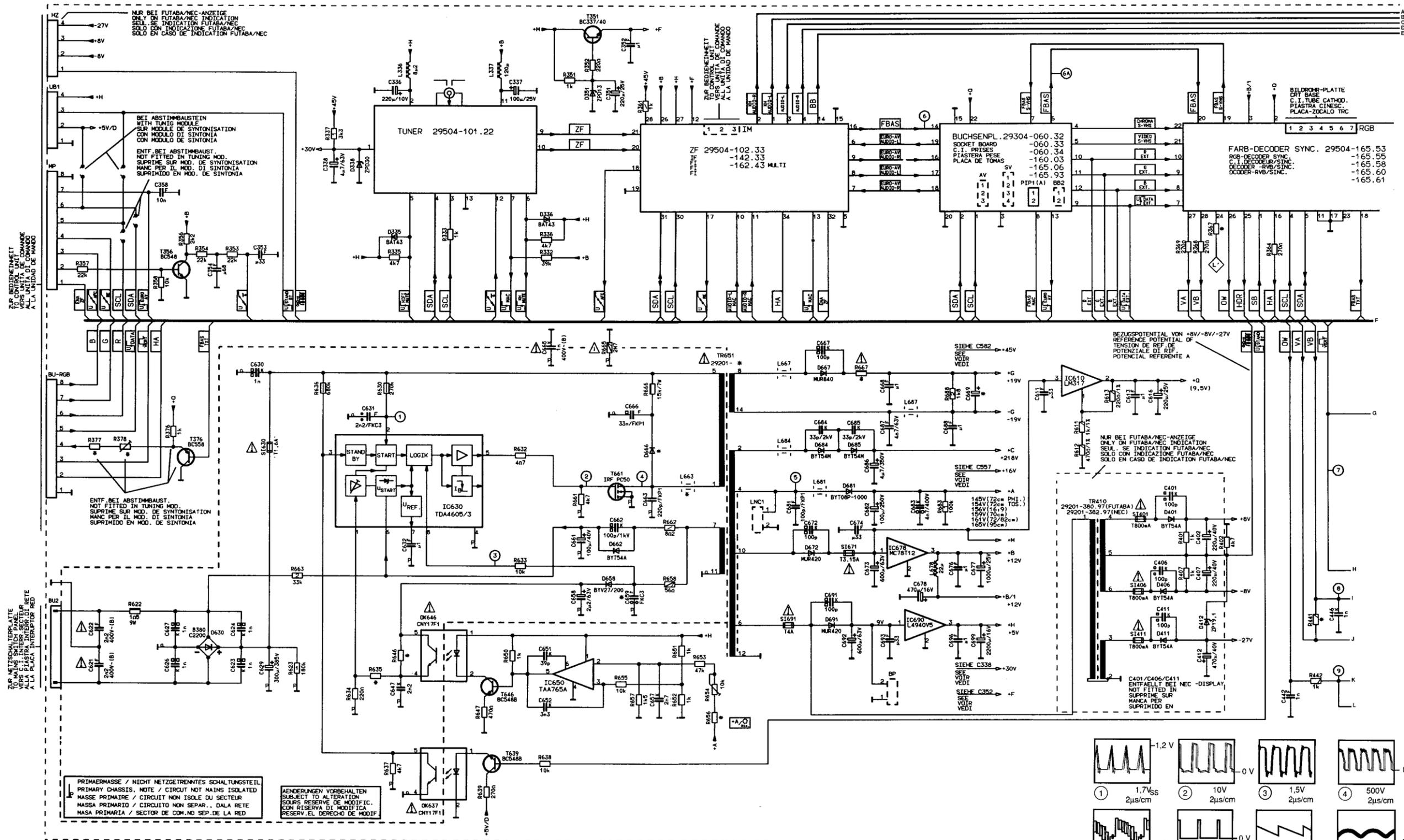
Reset:

Under the menu item "Reset" an average data set from the ROM IC860 is stored. After inadvertent readjustment during servicing, these basic values can be re-loaded at any time. For this, move the bar to "Reset". Press the OK button. By pressing the "AUX" button the picture geometry is set according to the "Reset" values. With the i button return to the normal menu.

Trouble Shooting Guide

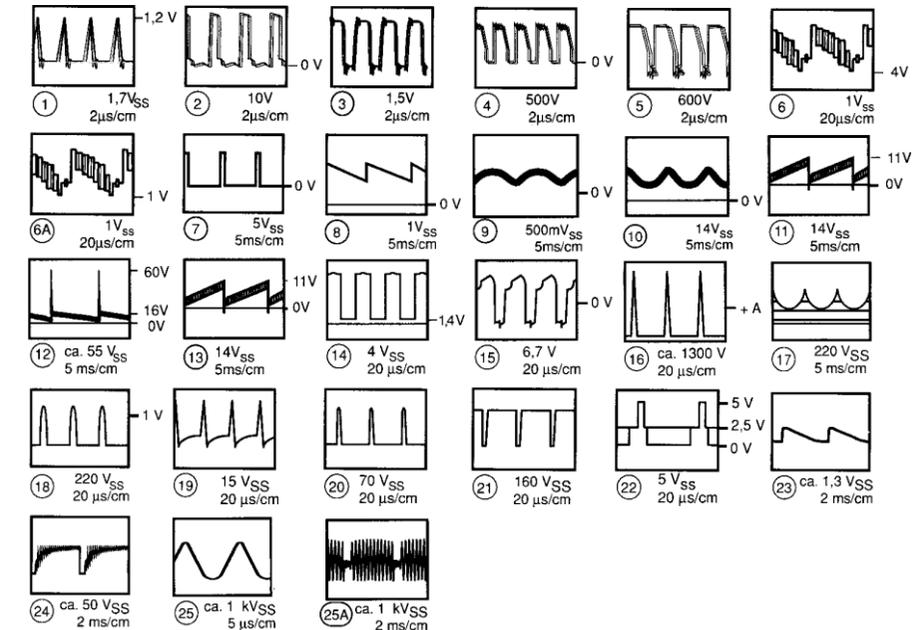
-Power Supply





Continued at 1

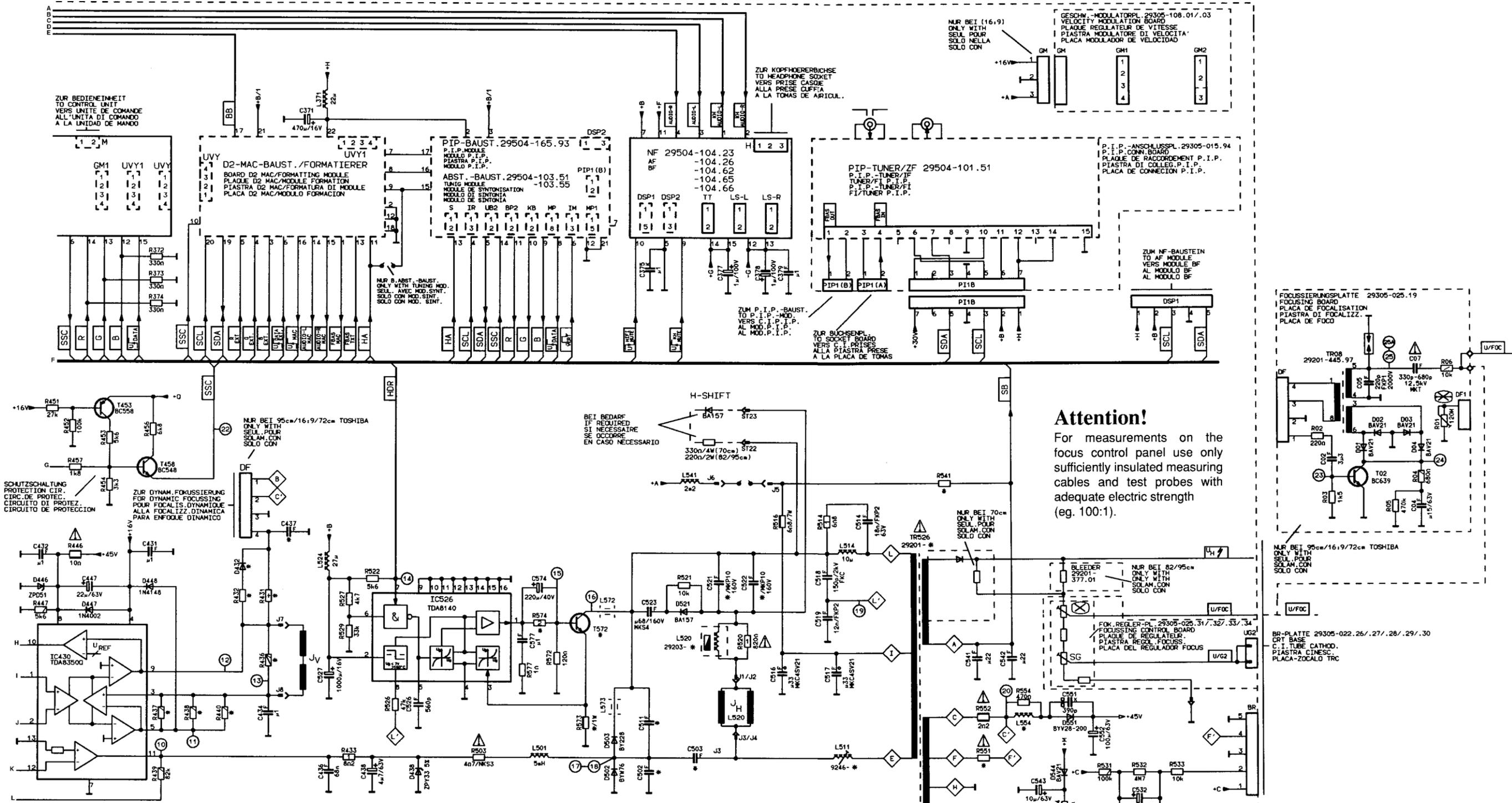
Main Diagram



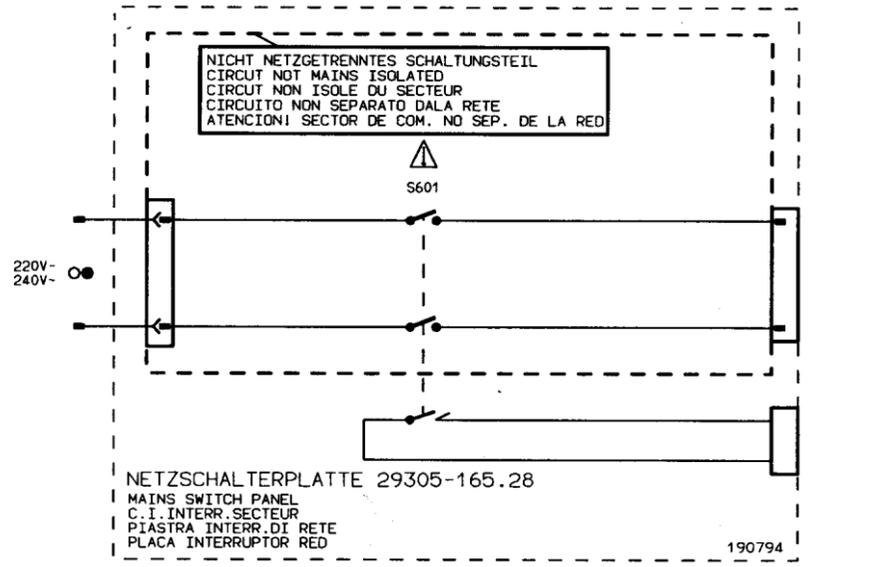
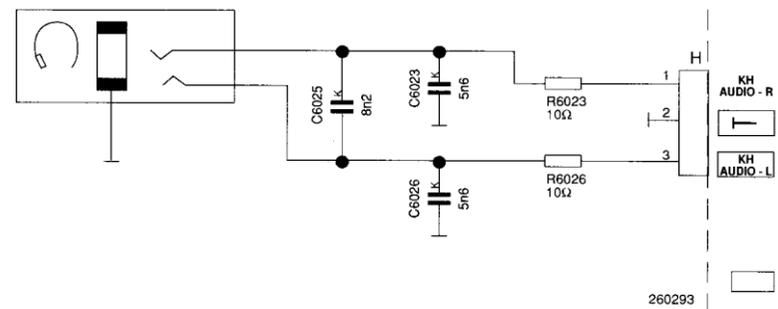
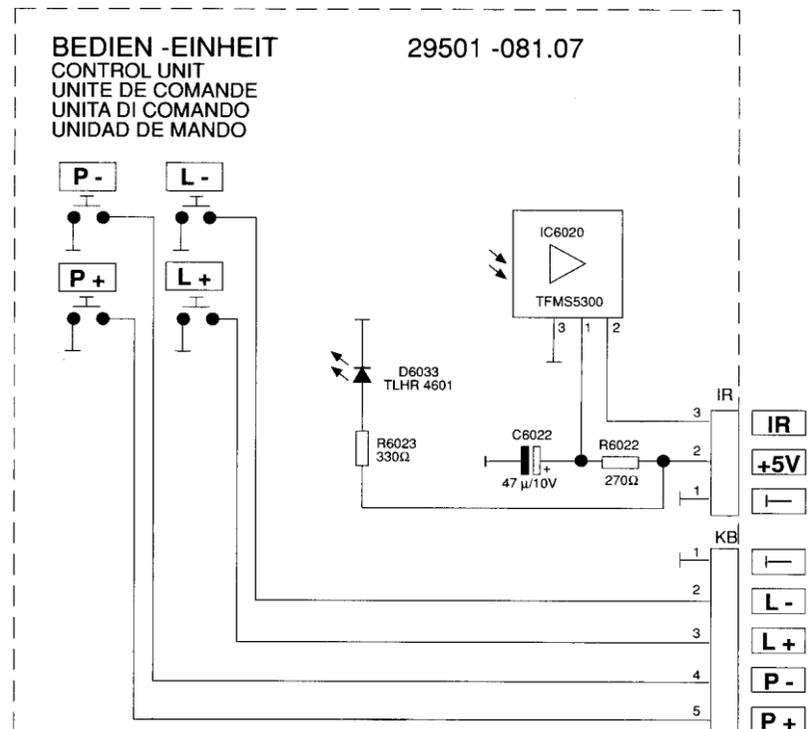
PRIMAERMASSE / NICHT NETZGETRENNTES SCHALTUNGSTEIL
 PRIMARY CHASSIS. NOTE / CIRCUIT NOT MAINS ISOLATED
 MASSE PRIMARE / CIRCUIT NON ISOLE DAL SECTEUR
 MASA PRIMARIA / CIRCUITO NON SEPAR. DALA REDE
 MASA PRIMARIA / SECTOR DE COM. NO SEP. DE LA RED

ÄNDERUNGEN VORBEHALTEN
 SUBJECT TO ALTERATION
 SOUS RESERVE DE MODIFIC.
 CON RISERVA DI MODIFIC.
 RESERV. EL DERECHO DE MODIF.

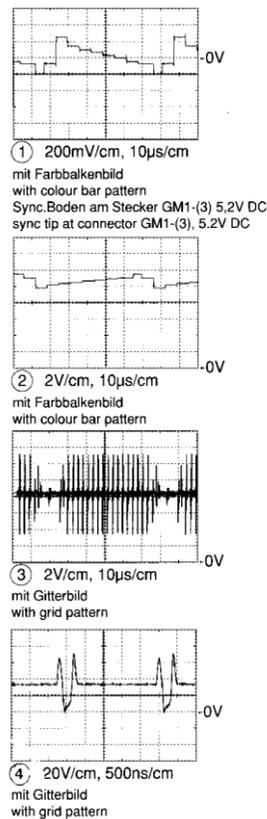
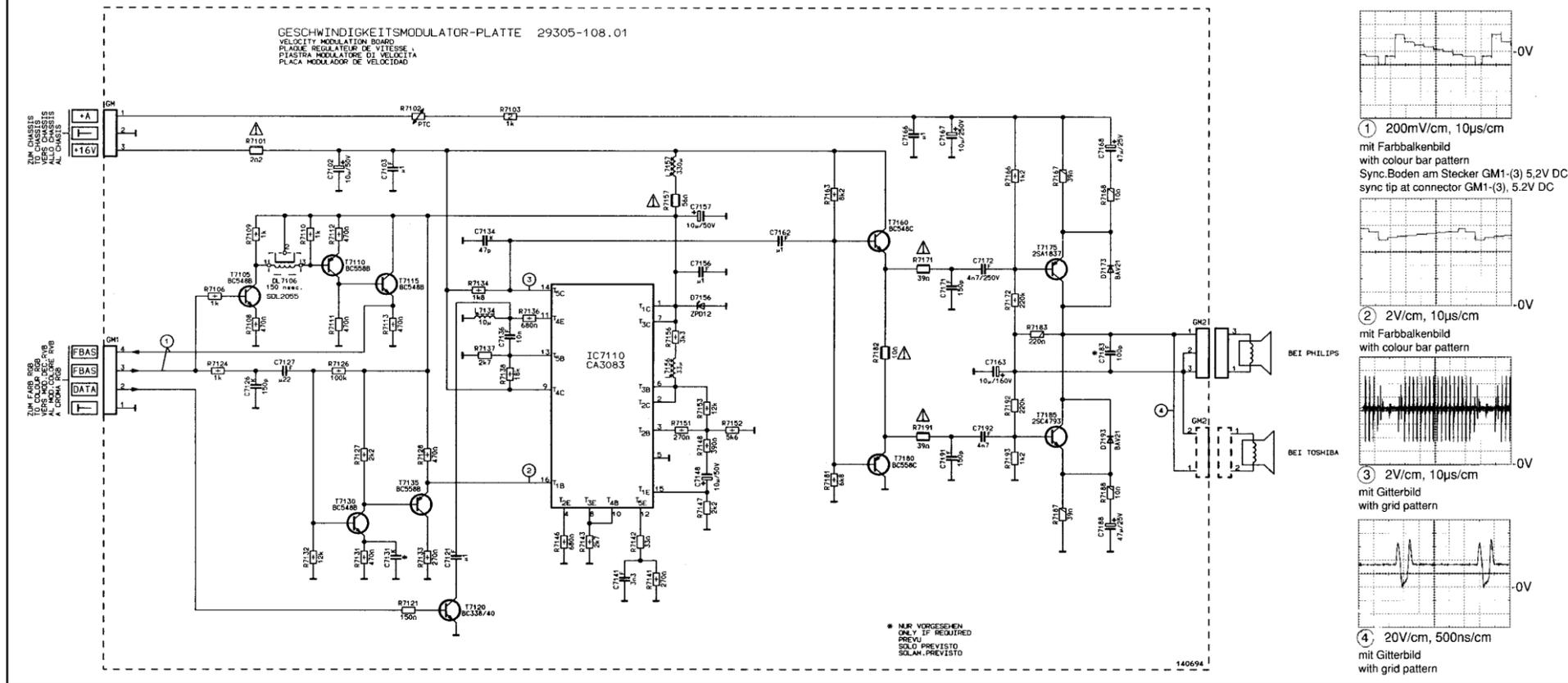
Main Diagram Cont'd.



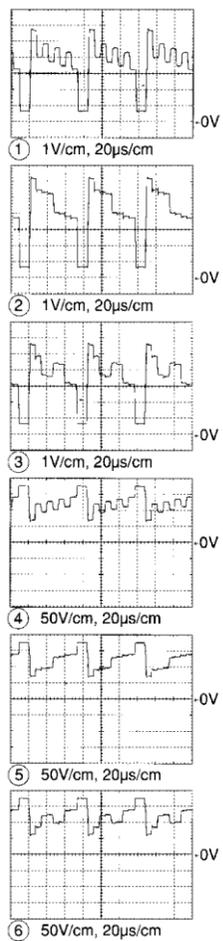
Control Unit Diagram



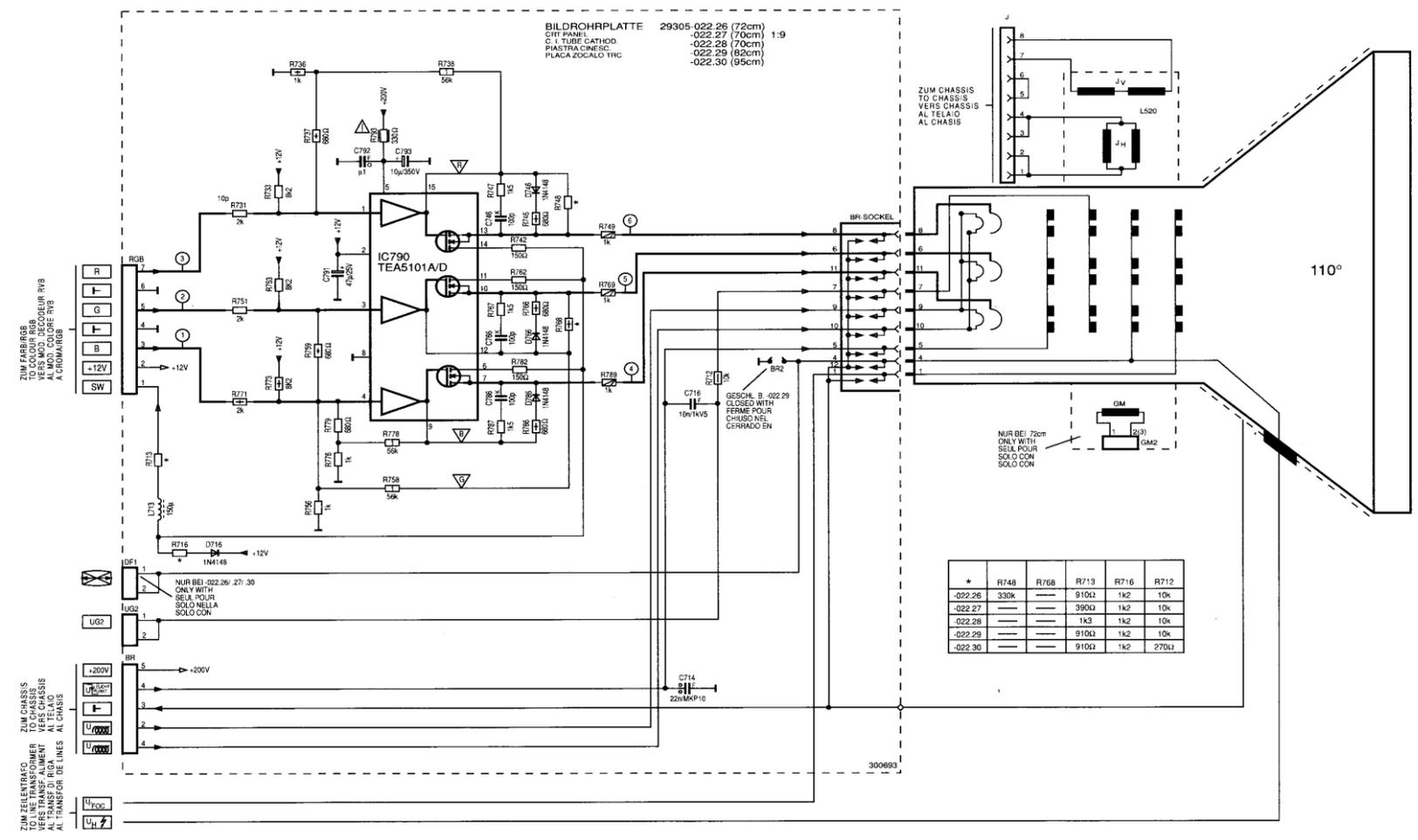
Velocity Diagram



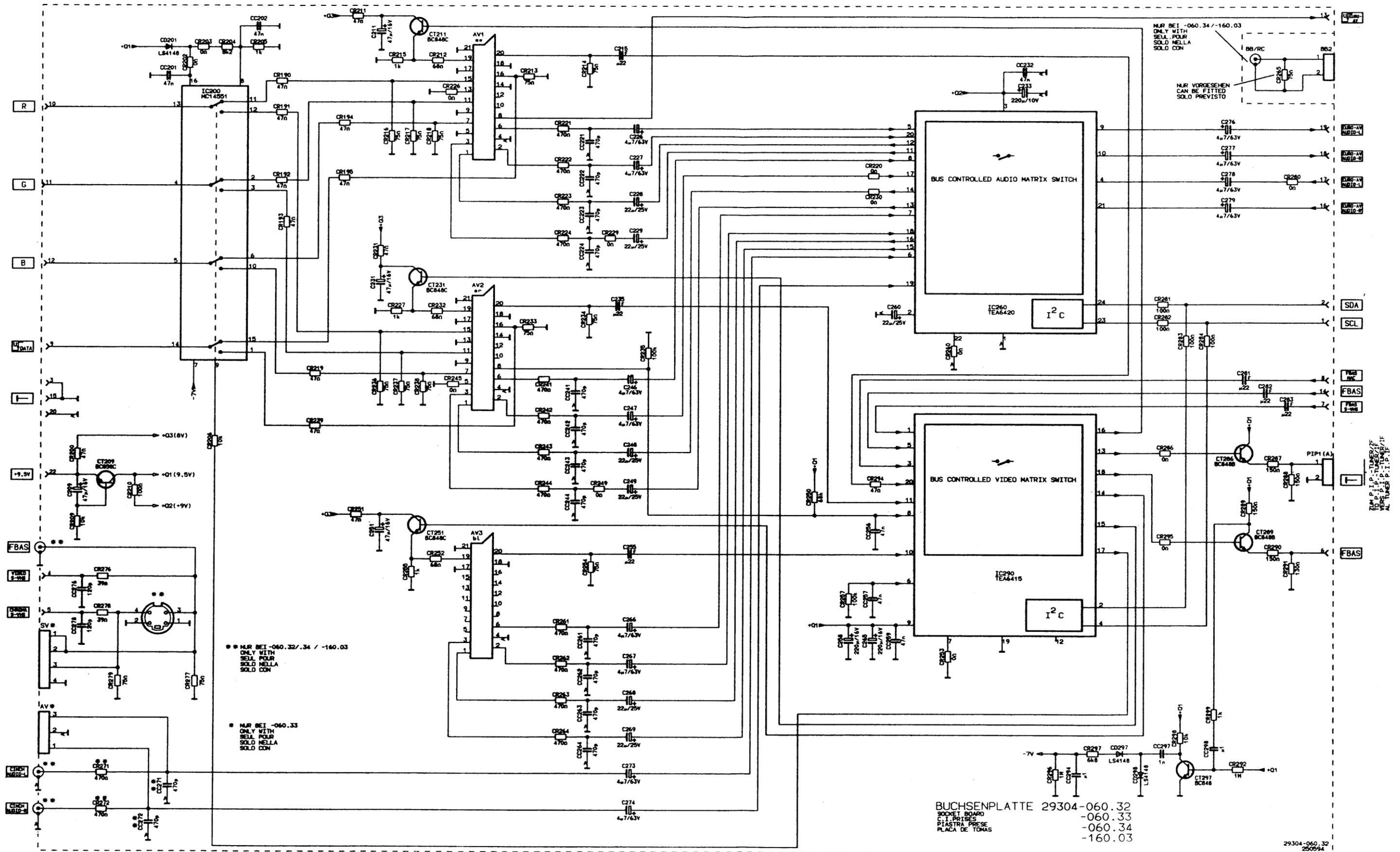
Waveforms



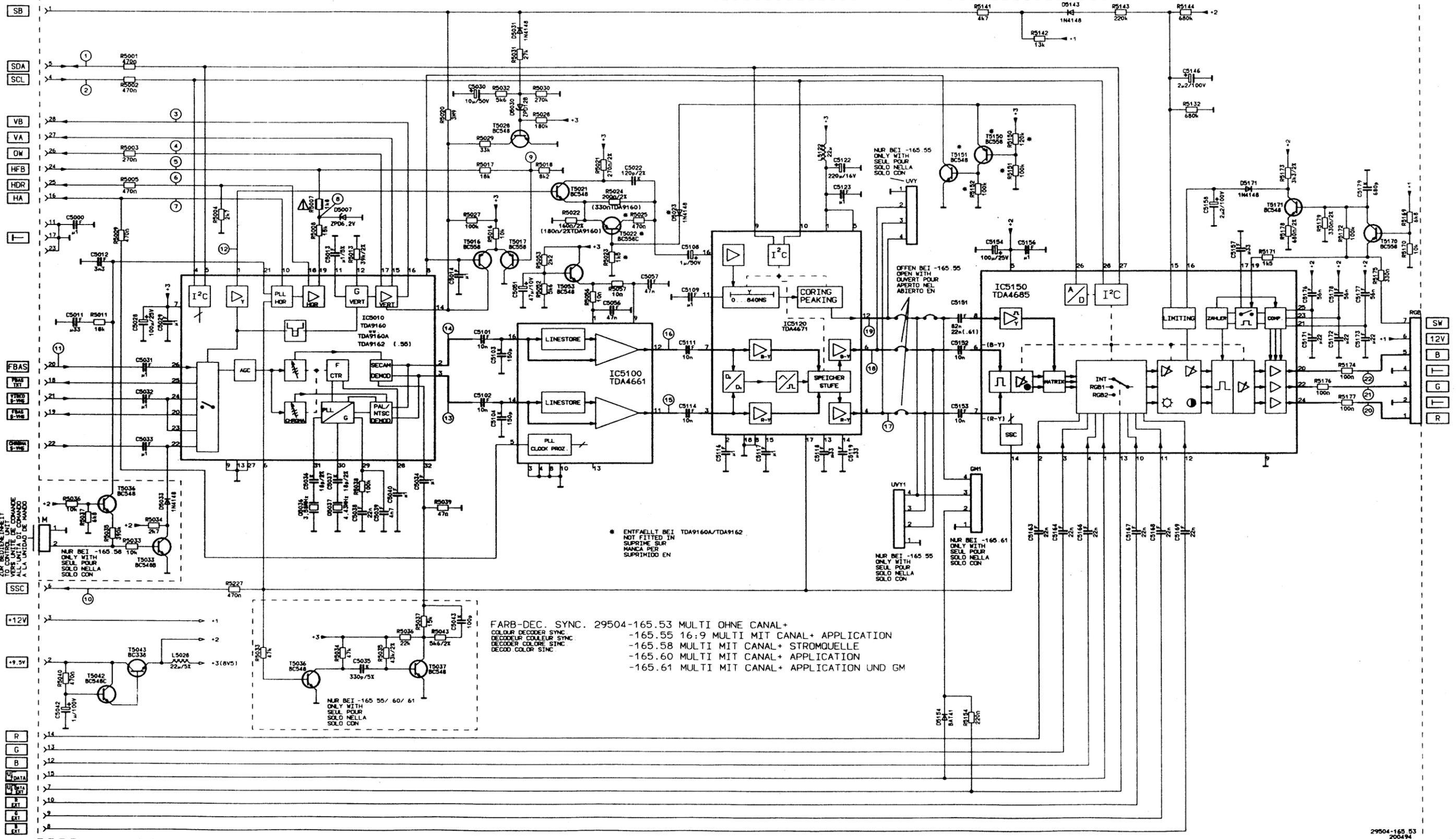
CRT Diagram



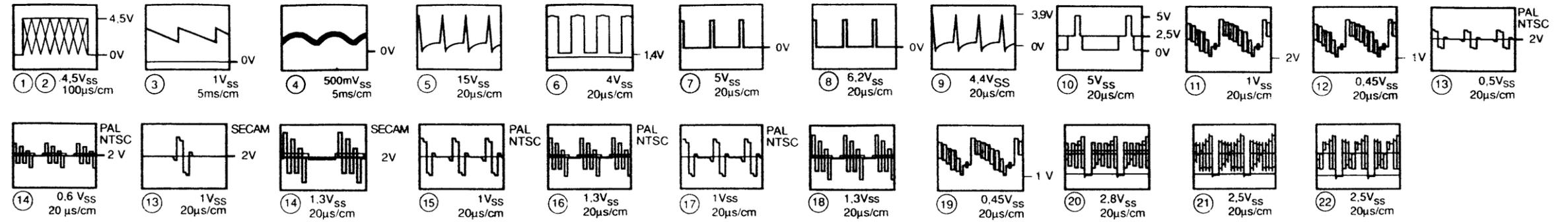
Socket Diagram

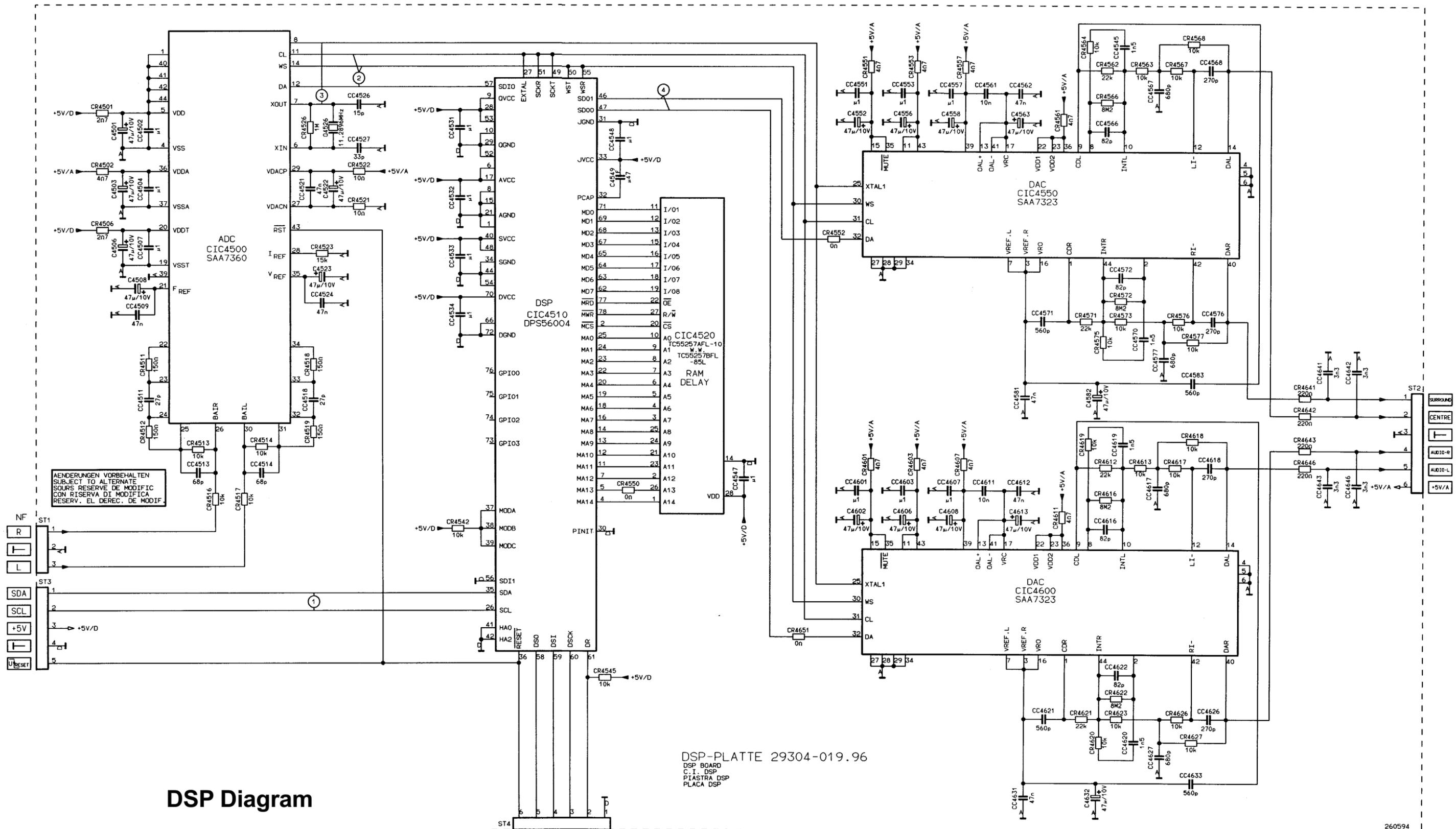


BUCHSENPLATTE 29304-060.32
 SOCKET BOARD -060.33
 P.I. PRISES -060.34
 PLASTRA PRESE -060.34
 PLACA DE TOMAS -160.03



Colour Decoder Sync. Diagram

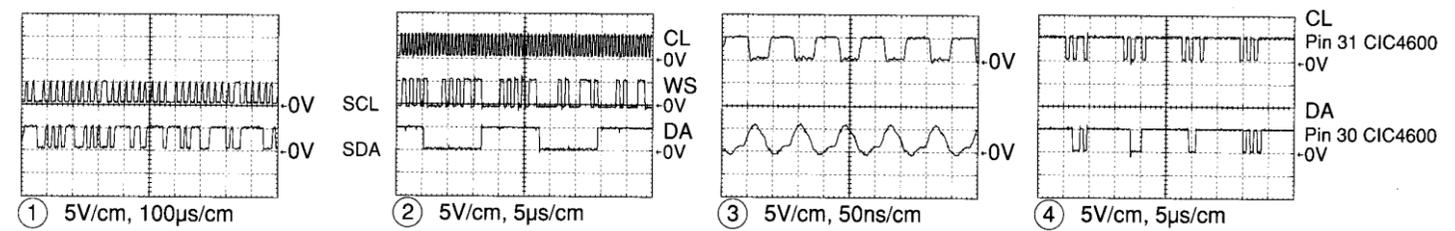




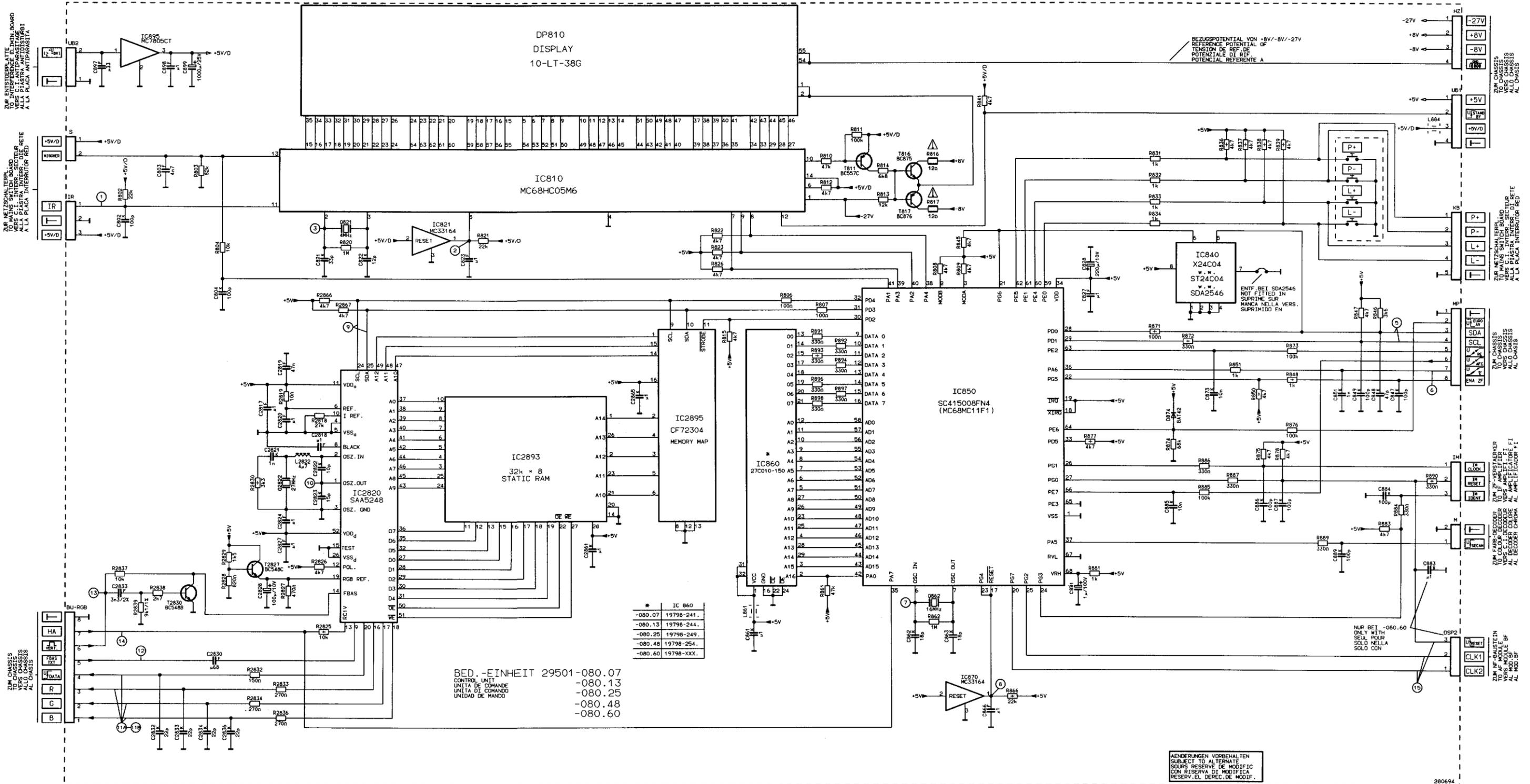
DSP Diagram

DSP-PLATTE 29304-019.96
 DSP BOARD
 C. I. DSP
 PIASTRA DSP
 PLACA DSP

260594



Display Control Unit with Videotext Diagram

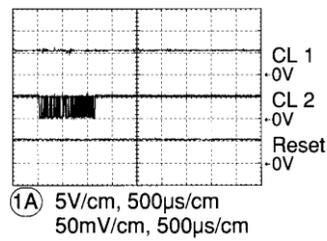
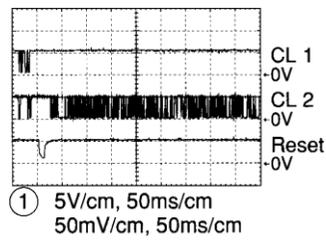
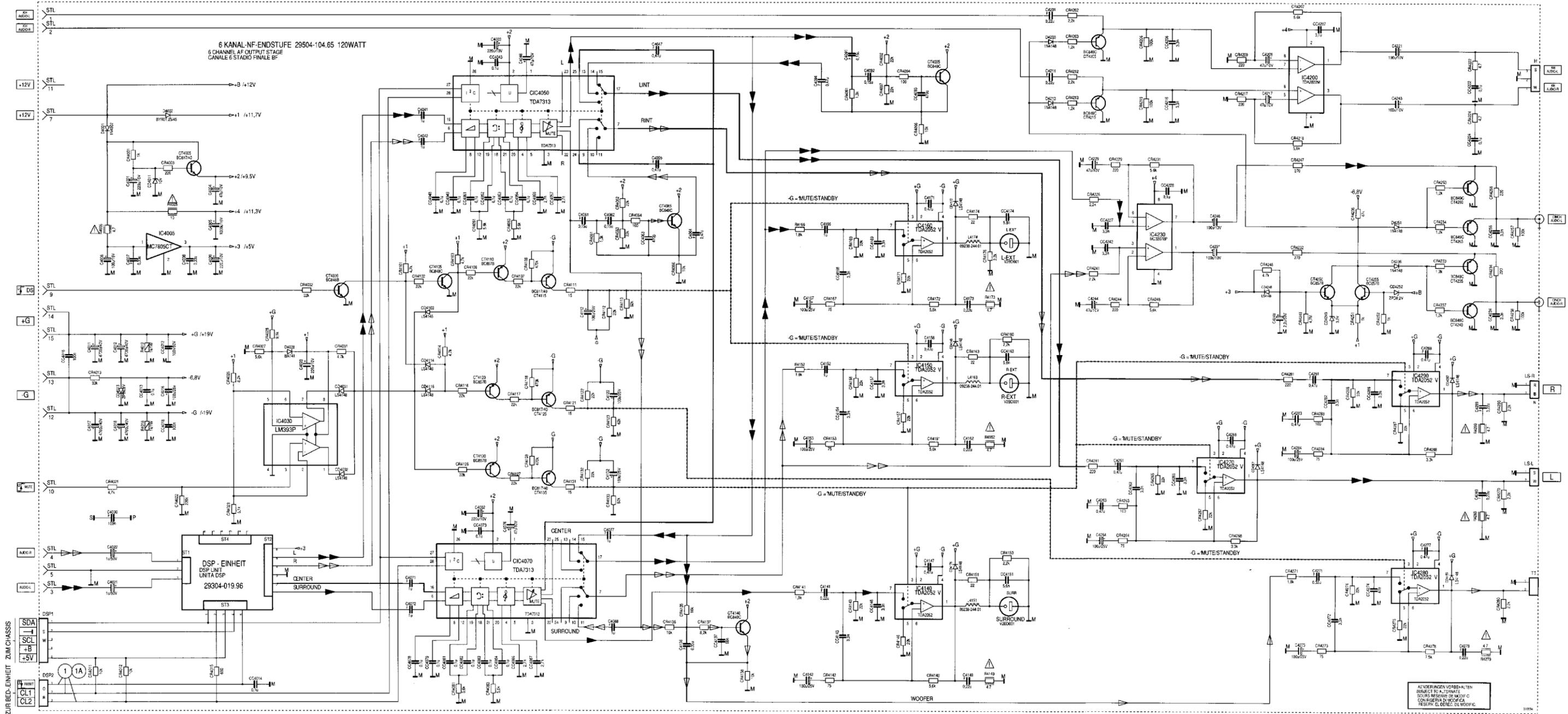


BED.-EINHEIT 29501-080.07
 CONTROL UNIT
 UNITA DE COMANDE
 UNITA DI COMANDO
 UNIDAD DE MANDO

| IC 860 | |
|---------|------------|
| -080.07 | 19798-241. |
| -080.13 | 19798-244. |
| -080.25 | 19798-249. |
| -080.48 | 19798-254. |
| -080.60 | 19798-XXX. |

ÄNDERUNGEN VORBEHALTEN
 SUBJECT TO ALTERNATE
 SOUS RESERVE DE MODIFIC
 CON RISERVA DI MODIFICA
 RESERV.EL DEREC.DE MODIF.

AF Output Diagram "B"

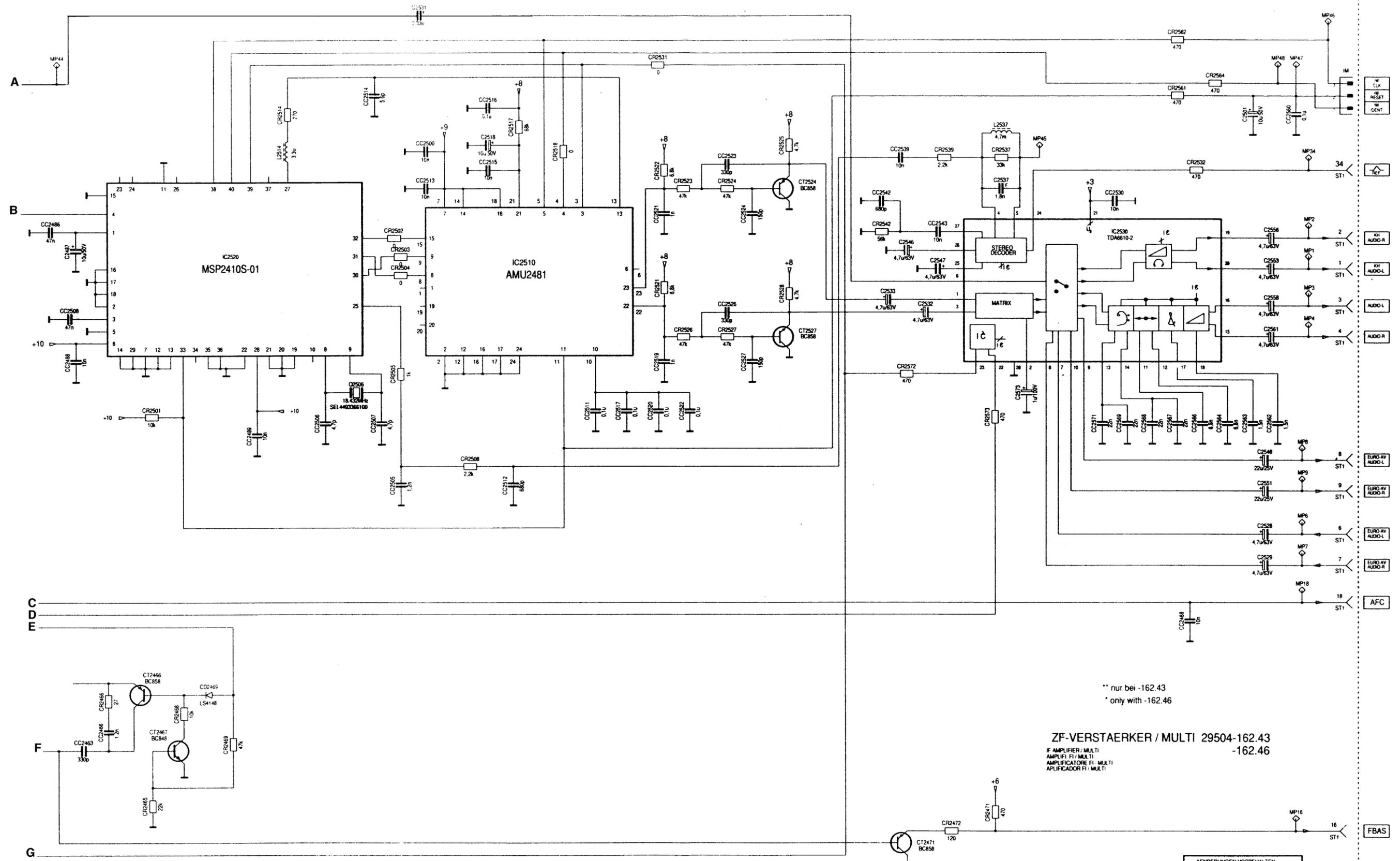


- ▶▶ AUDIO Links / Left
- ◁▷ AUDIO Rechts / Right
- ▶ SURROUND
- ▷ WOOFER
- CENTER
- - - MUTE, Standby

Togglefunktion im Sound-Mode "On/OFF" /
Toggle function in the Sound Mode "ON/OFF"

Normalbetrieb ohne Tastenbetätigung /
Normal operation without pressing the buttons

IF Amp Diagram Cont'd



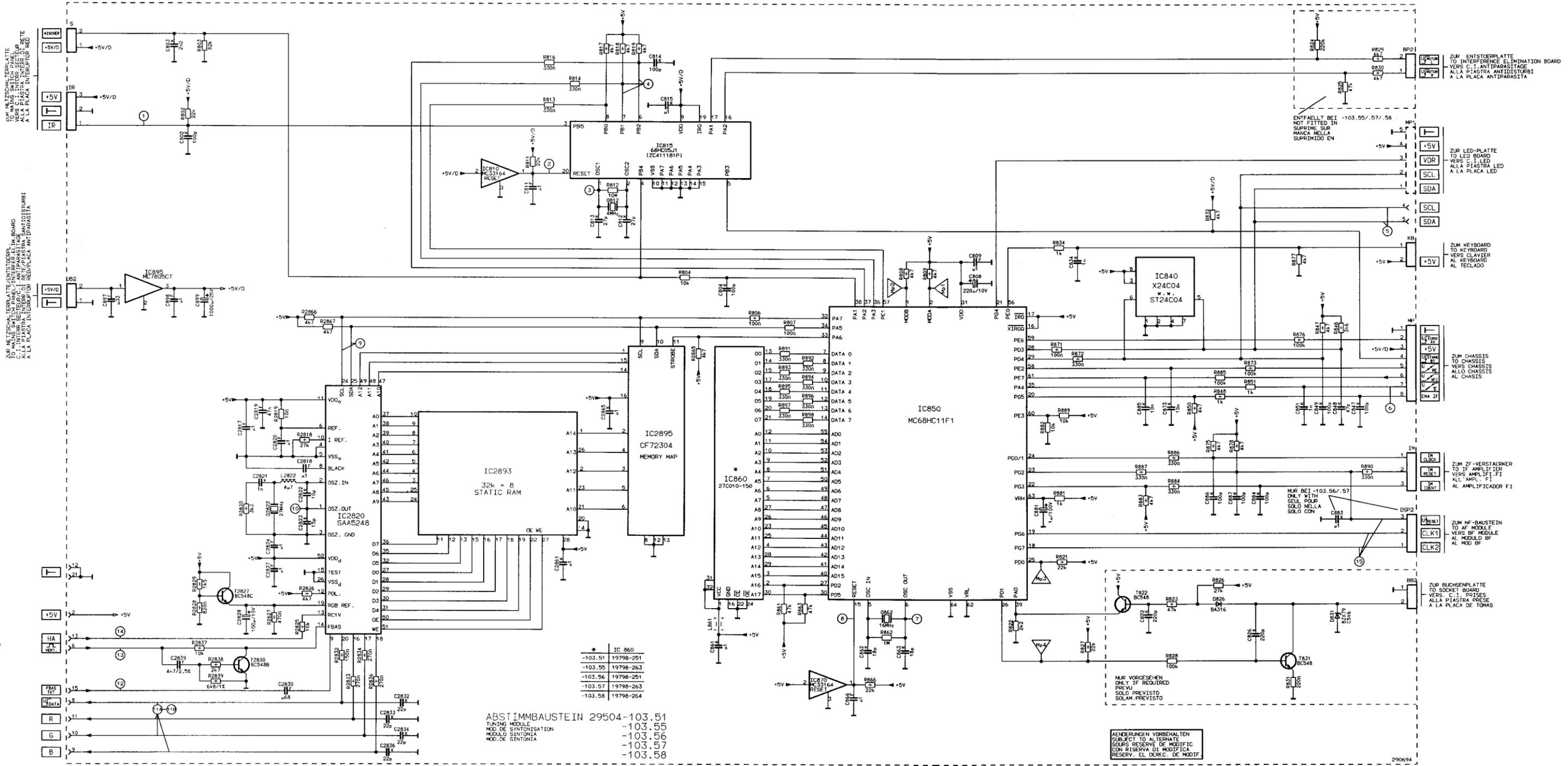
2

** nur bei -162.43
* only with -162.46

ZF-VERSTAEKER / MULTI 29504-162.43
-162.46
IF AMPLIFIER / MULTI
AMPLIFI FI / MULTI
AMPLIFICATORE FI / MULTI
APLICADOR FI / MULTI

ÄNDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOUIS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV EL DERECH MODIFIC

Tuner Diagram



ZUR NETZSCHALTEPLATTE
TO MONITOR SWITCHBOARD
ALLA PIASTRA ANTISTURBO
A LA PLACA ANTIDISTURBI

ZUR NETZSCHALTEPLATTE/ANTISTURBO
TO MONITOR SWITCHBOARD
ALLA PIASTRA ANTISTURBO
A LA PLACA ANTIDISTURBI

ZUR ENTSICHERUNG
VERS. C.1: ANTIPARASTAGE
ALLA PIASTRA ANTISTURBO
A LA PLACA ANTIPARASITA

ZUR LED-PLATTE
VERS. C.1: LED
ALLA PIASTRA LED
A LA PLACA LED

ZUM KEYBOARD
VERS. C.1: KEYPAD
AL KEYBOARD
AL TECLADO

ZUM CHASSIS
VERS. C.1: CHASSIS
ALLO CHASSIS
AL CHASSIS

ZUM ZF-VERSTÄRKER
VERS. C.1: AMPLIF. F1
AL AMPLIFICADOR F1

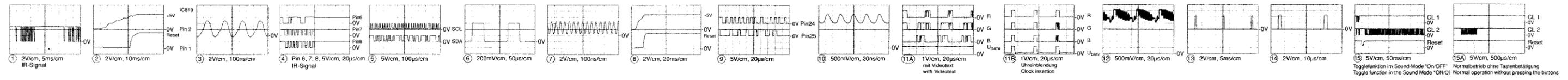
ZUM NF-BAUSTEIN
VERS. C.1: MODULE
AL MODULE
AL MOD. BF

ZUR BUCHSENPLATTE
TO SOCKET BOARD
ALLA PIASTRA PRESE
A LA PLACA DE TOMAS

| * IC 860 | |
|----------|-----------|
| -103.51 | 19798-251 |
| -103.55 | 19798-263 |
| -103.56 | 19798-251 |
| -103.57 | 19798-263 |
| -103.58 | 19798-264 |

ABSTIMMBAUSTEIN 29504-103.51
TUNING MODULE
MOD. DE SYNTONISATION
MODULO SINTONIA
MOD. DE SINTONIA

NUR VORGESEHEN
ONLY IF REQUIRED
PREVU
SOLLO PREVISTO
SOLAM. PREVISTO



Togglefunktion in Sound Mode "ON/OFF"
Normal operation without pressing the buttons