

GRUNDIG

SCHALTBILD
CIRCUIT DIAGRAM
SCHEMA



Schaltbild
Circuit
Diagram
Schema

Sach-Nr./Part No.
72010-920.30

Zusätzlich erforderliche Unterlagen:

Additionally required Service Manuals:

Documentazioni aggiuntive necessarie:

Service
Manual

Sicherheit
Safety

Sach-Nr./Part No.
72010-800.00

D Btx * 32700 #

CUC 6361

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Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Sach-Nummer 72010-800.00, sowie zusätzlich eventuell abweichende, landesspezifische Vorschriften!

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010-800.00, as well as the respective national deviations.

Valgono le prescrizioni e note di sicurezza secondo il Manuale di Servizio "Norme di sicurezza" numero d'ordine 72010-800.00, così pure le eventuali disposizioni specifiche vigenti nel singolo stato.

Weitere chassisbezogene Informationen entnehmen Sie bitte dem zugehörigen Service Manual.

For more detailed information on the chassis, please see the appropriate Service Manual.

Ulteriori informazioni a seconda della chassis Le rilevi per favore dal relativo Manuale di Servizio.

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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 U_{sg}

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

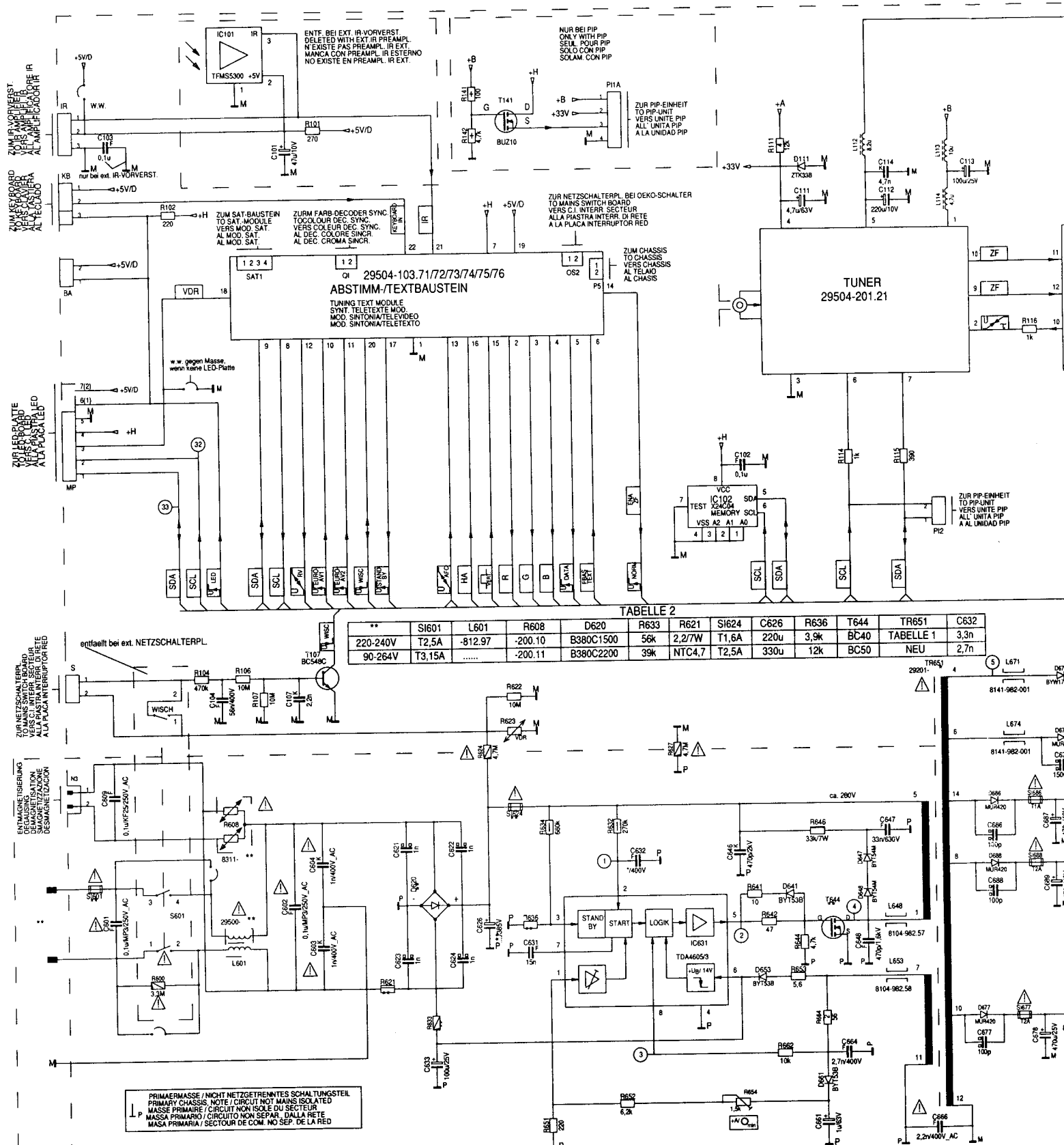
Only necessary in the case of inappropriate changes in the horizontal deflection.

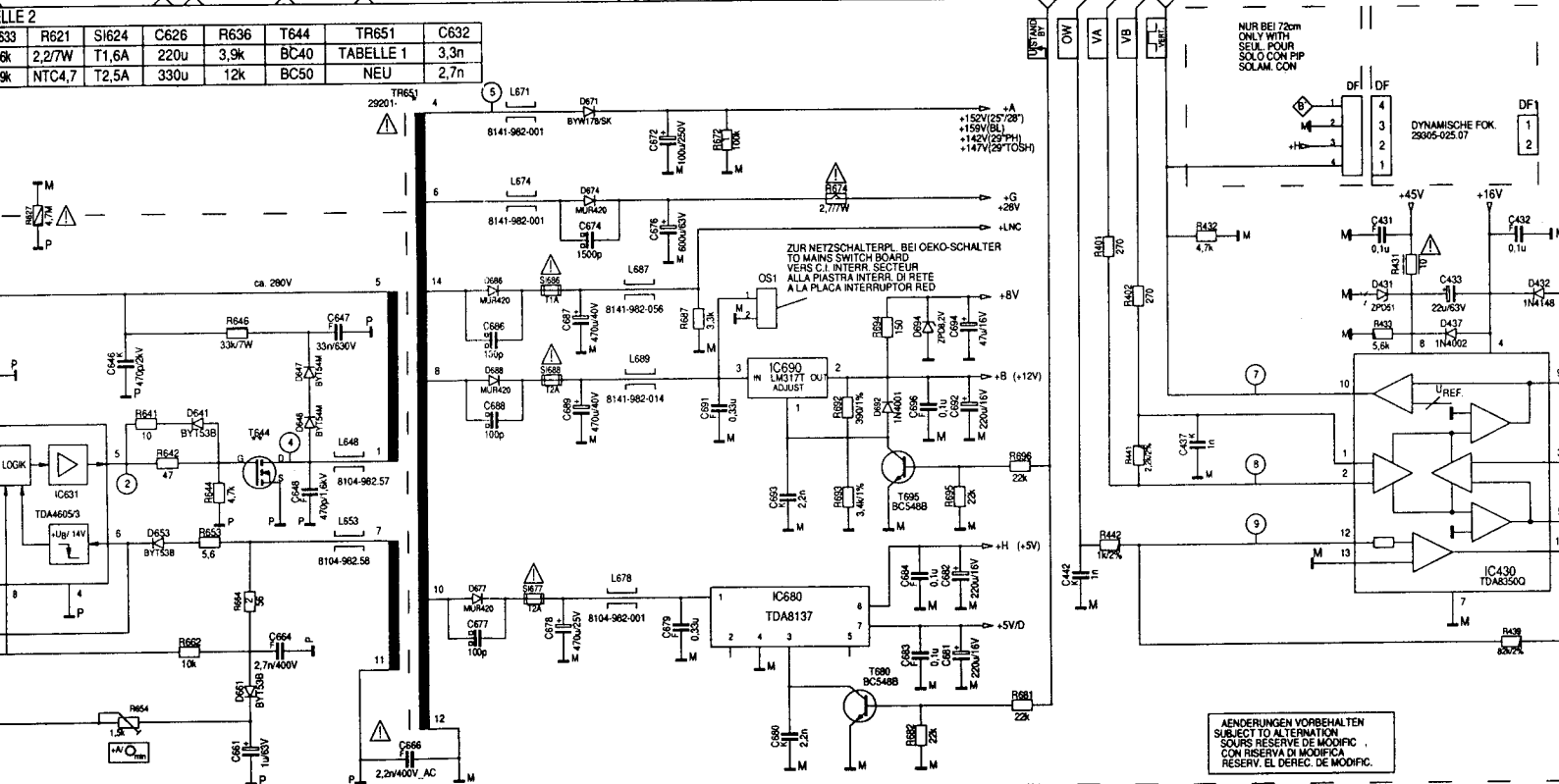
5. Geometry alignment

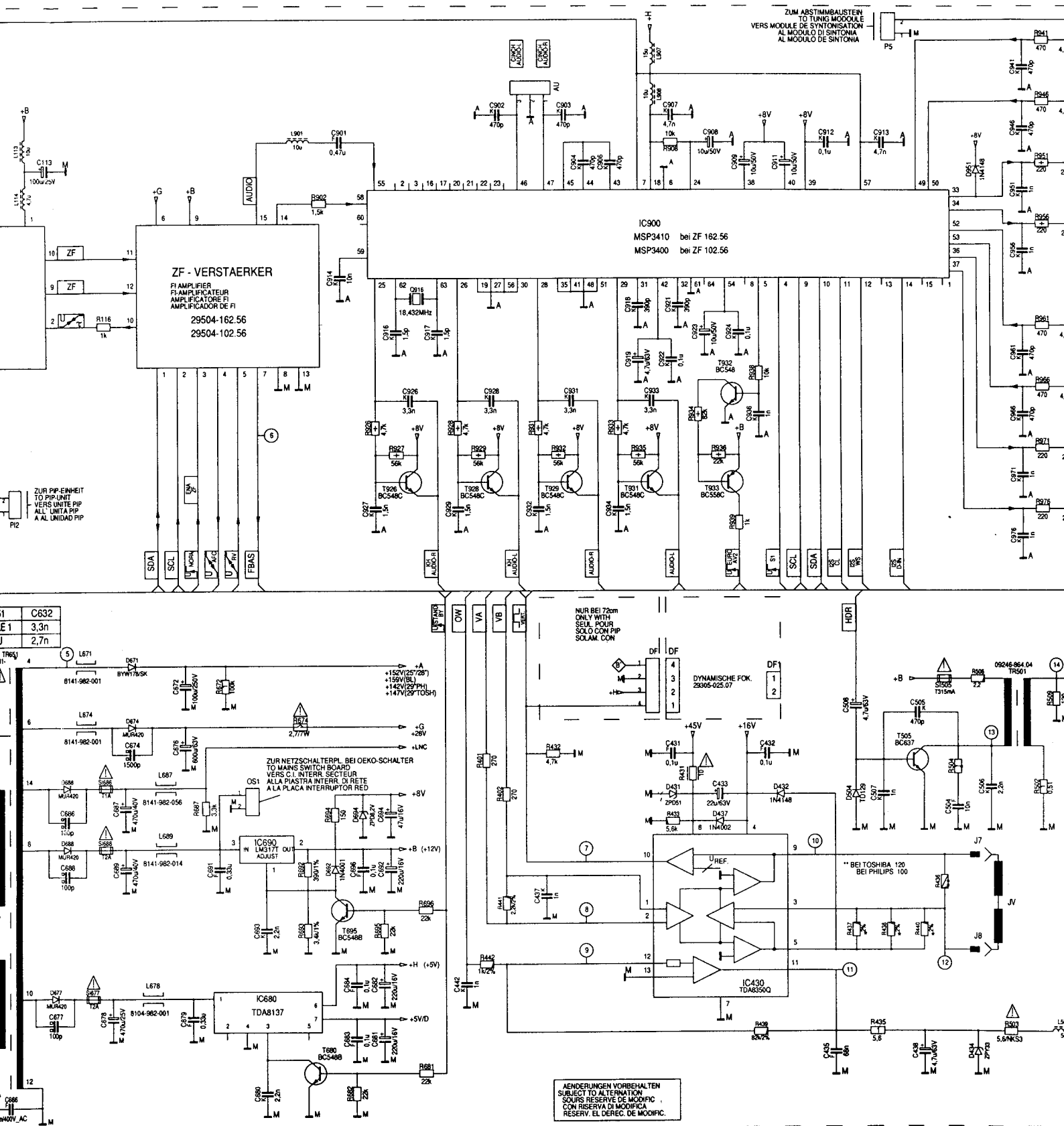
After replacement or repair of the tuning module check the picture geometry via the menu and correct the settings if necessary.

Alignment	Preparations	Alignment Process
1. Tuner-AGC	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 (64dB μ V). Call up the "Tuner-AGC" menu via the Service Programme "Info Center" → "Special Functions" → "Service" → "Code Number 8500".	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".
2. White balance	Call up the "White Balance" menu via the Service Programme "Info Center" → "Special Functions" → "Service" → "Code Number 8500".	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".
3. Adjustment of the screen grid voltage U_{sg}	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. 220k Ω) to the test points R, G, B and determine the maximum voltage.	With the control U_{sg} on the picture tube panel set the maximum voltage level to approx. 165V. If retrace lines are visible on the screen reduce the voltage by approx. 10V.
4. Adjustment of the diode modulator stage	The bridge coil L511 is correctly adjusted during production and should not be re-adjusted any more. Call up the "Geometry" menu via the Service Programme → "Info Center" → "Special Functions" → "Service" → "Code Number 8500". Set the horizontal amplitude to minimum. Connect one test probe of a dual-beam oscilloscope to the collector of the transistor T568. Connect the second test probe between the diodes D502 and D503.	Adjust the coil L511 so that both oscillograms have the same pulse width. Re-adjust the horizontal amplitude according to the test pattern.
5. Geometry adjustment	Feed in the test pattern. Call up the "Geometry Adjustment" menu via the Service Programme "Info Center" → "Special Functions" → "Service" → "Code Number 8500".	Check the geometry via the menu and correct the data according to the test pattern.

Gesamtschaltplan / General Circuit Diagram / Schema Completo







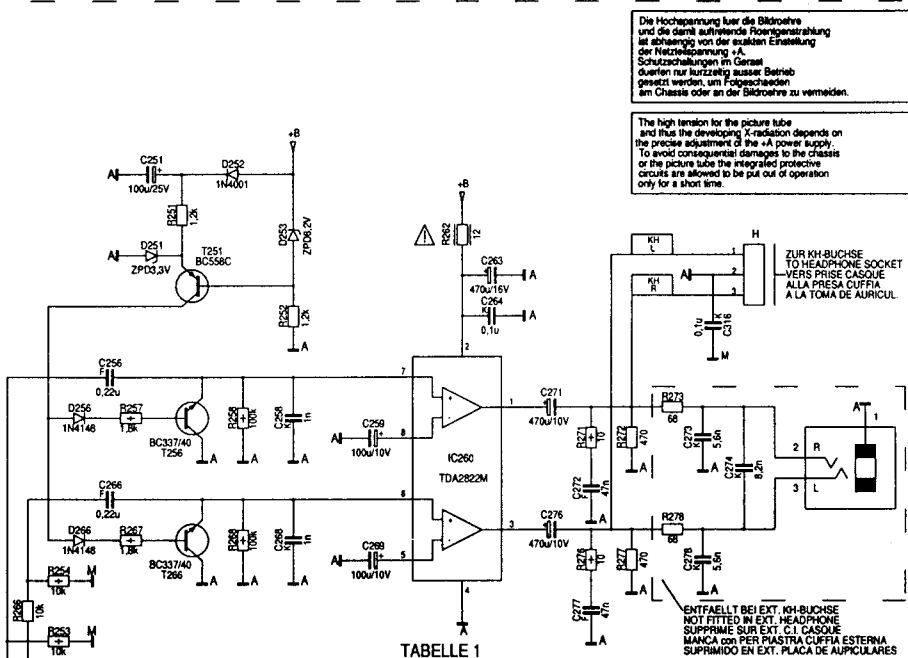
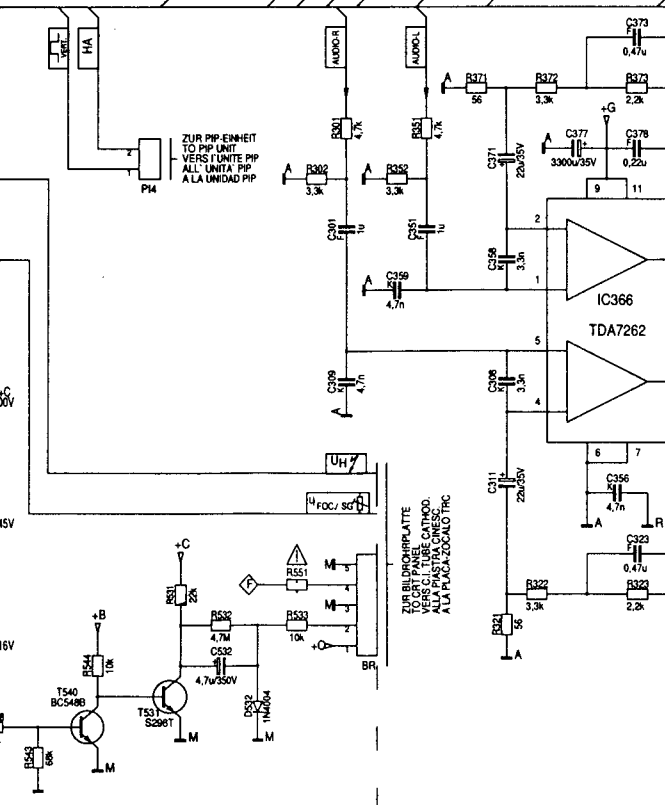
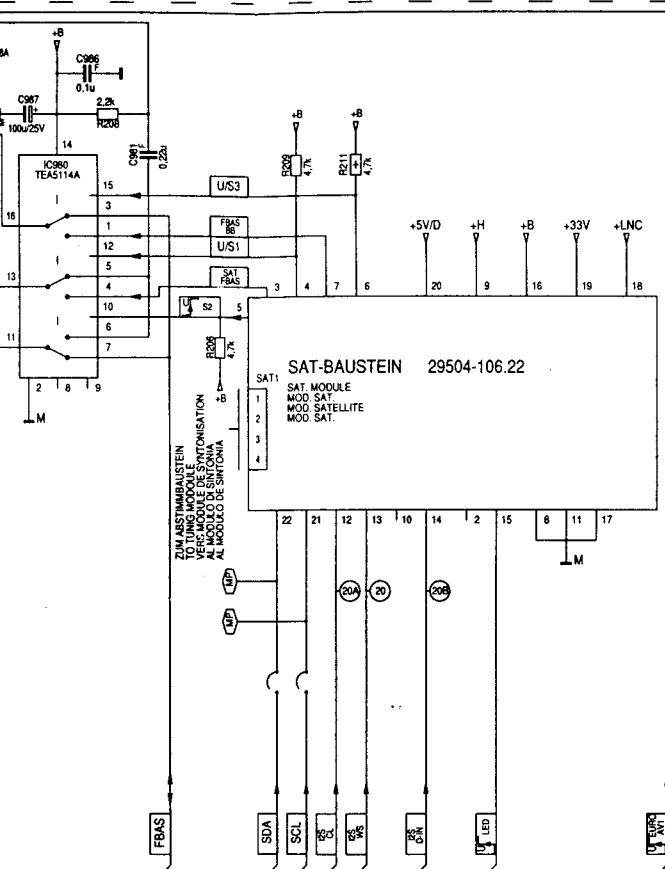
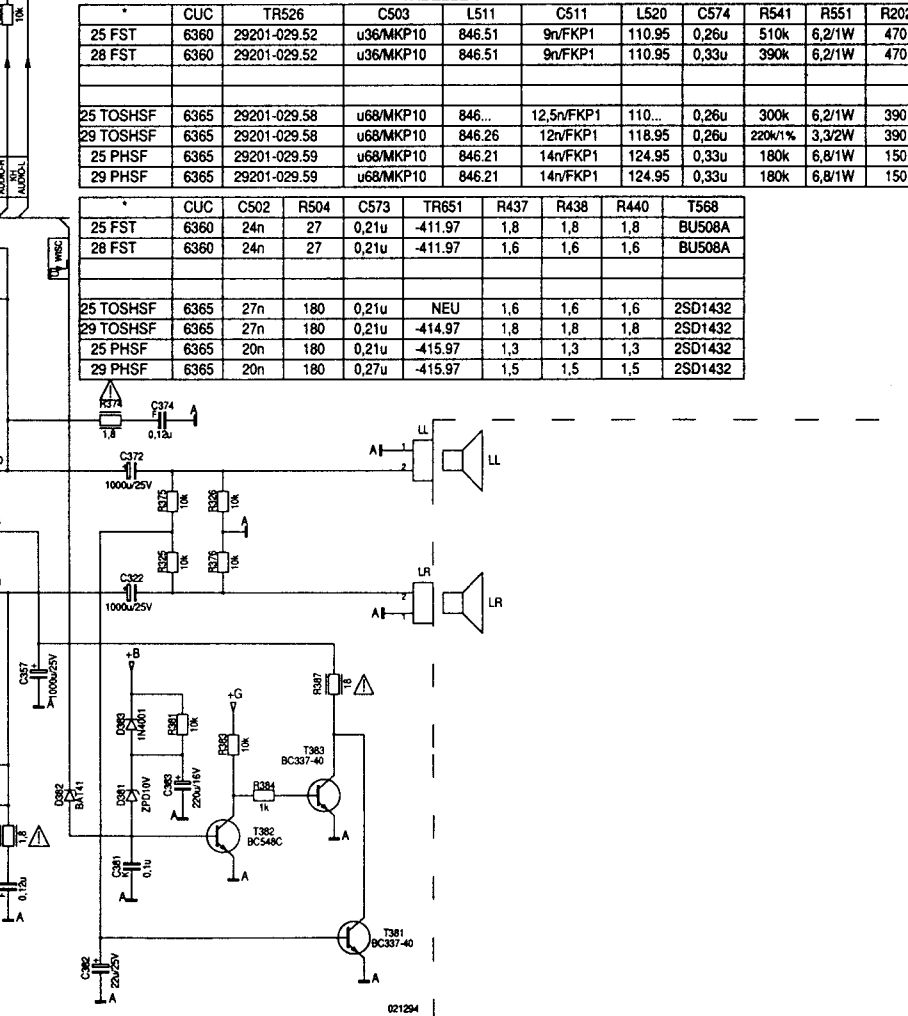


TABELLE 1

	CUC	TR526	C503	L511	C511	L520	C574	R541	R551	R202
25 FST	6360	29201-029.52	u36/MKP10	846.51	9n/FKP1	110.95	0,26u	510k	6,2/1W	470
28 FST	6360	29201-029.52	u36/MKP10	846.51	9n/FKP1	110.95	0,33u	390k	6,2/1W	470
25 TOSHFS	6365	29201-029.58	u68/MKP10	846...	12,5n/FKP1	110...	0,26u	300k	6,2/1W	390
29 TOSHFS	6365	29201-029.58	u68/MKP10	846.26	12n/FKP1	118.95	0,26u	220k/1%	3,3/2W	390
25 PHSF	6365	29201-029.59	u68/MKP10	846.21	14n/FKP1	124.95	0,33u	180k	6,8/1W	150
29 PHSF	6365	29201-029.59	u68/MKP10	846.21	14n/FKP1	124.95	0,33u	180k	6,8/1W	150

	CUC	C502	R504	C573	TR651	R437	R438	R440	T568
25 FST	6360	24n	27	0,21u	-411.97	1,8	1,8	1,8	BU508A
28 FST	6360	24n	27	0,21u	-411.97	1,6	1,6	1,6	BU508A
25 TOSHFS	6365	27n	180	0,21u	NEU	1,6	1,6	1,6	2SD1432
29 TOSHFS	6365	27n	180	0,21u	-411.97	1,8	1,8	1,8	2SD1432
25 PHSF	6365	20n	180	0,21u	-415.97	1,3	1,3	1,3	2SD1432
29 PHSF	6365	20n	180	0,27u	-415.97	1,5	1,5	1,5	2SD1432



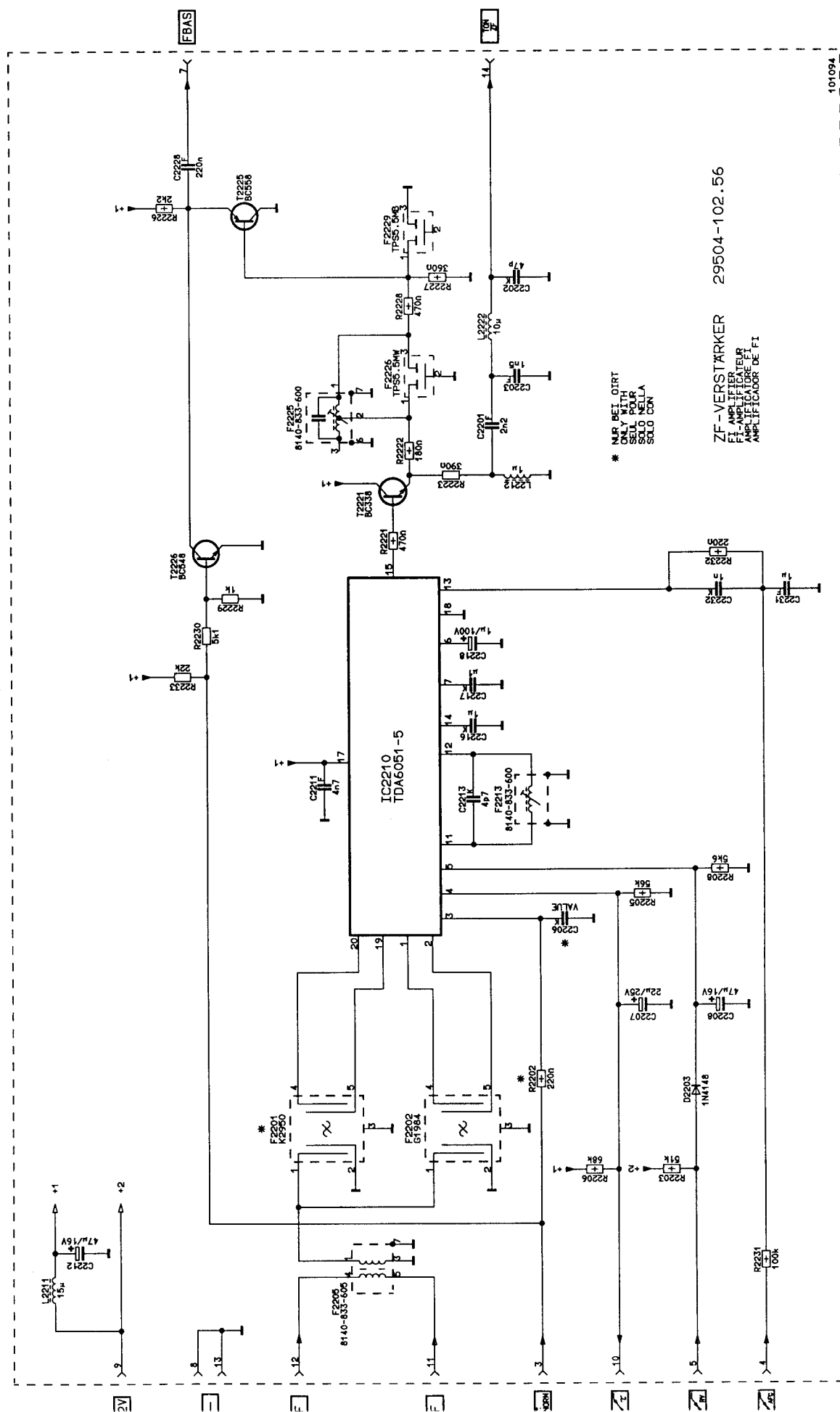
Die Hochspannung fuer die Bildroehre und die damit auftretende Rontgenstrahlung ist abhängig von der exakten Einstellung der Netzspannung +A. Schutzschaltungen im Gerät queren nur kurzzeitig ausser Betrieb gesetzt werden, um Folgeschaden am Chassis oder an der Bildroehre zu vermeiden.

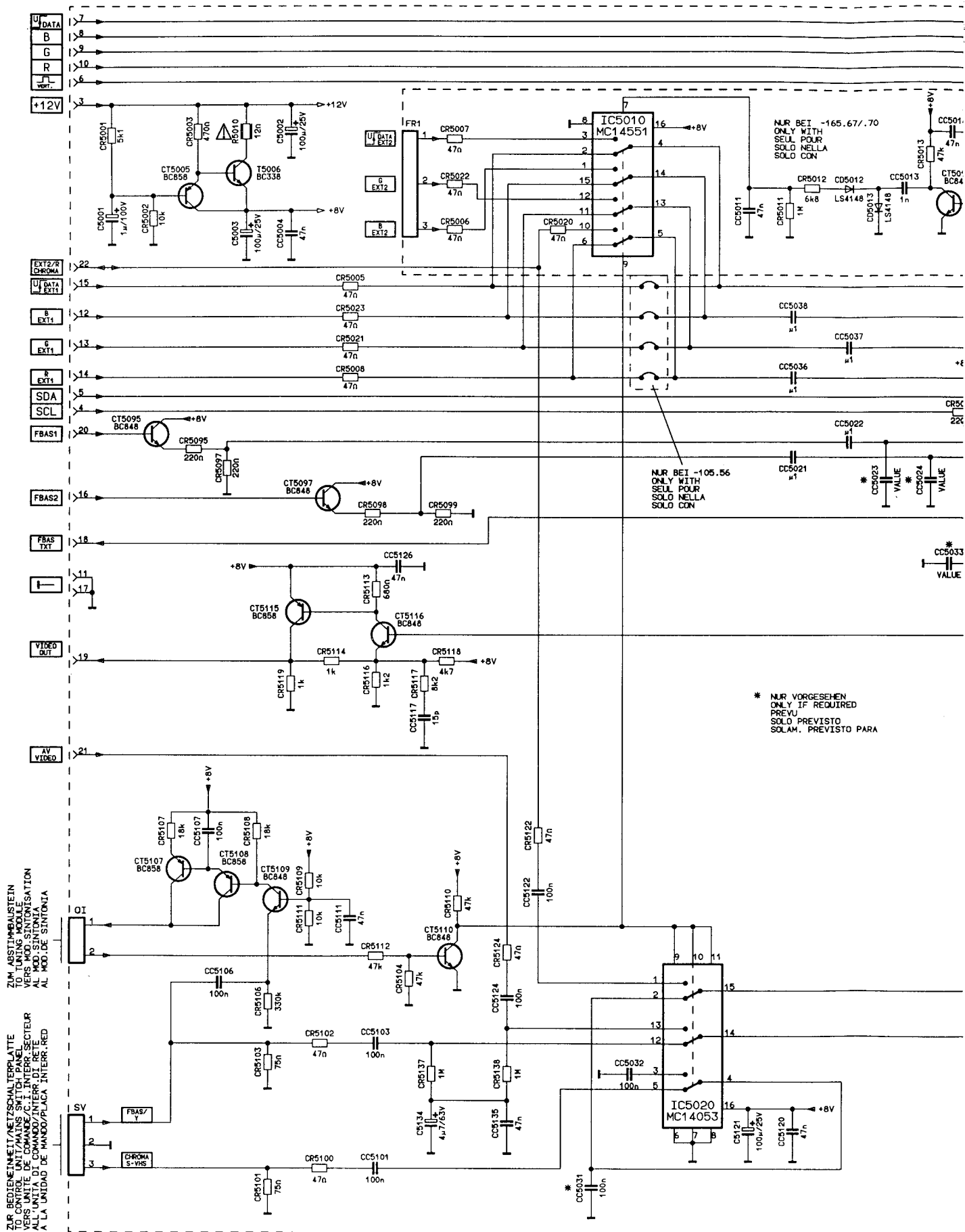
The high tension for the picture tube and thus the developing X-radiation depends on the precise adjustment of the +A power supply. To avoid consequential damages to the chassis or the picture tube the integrated protective circuits are allowed to be put out of operation only for a short time.

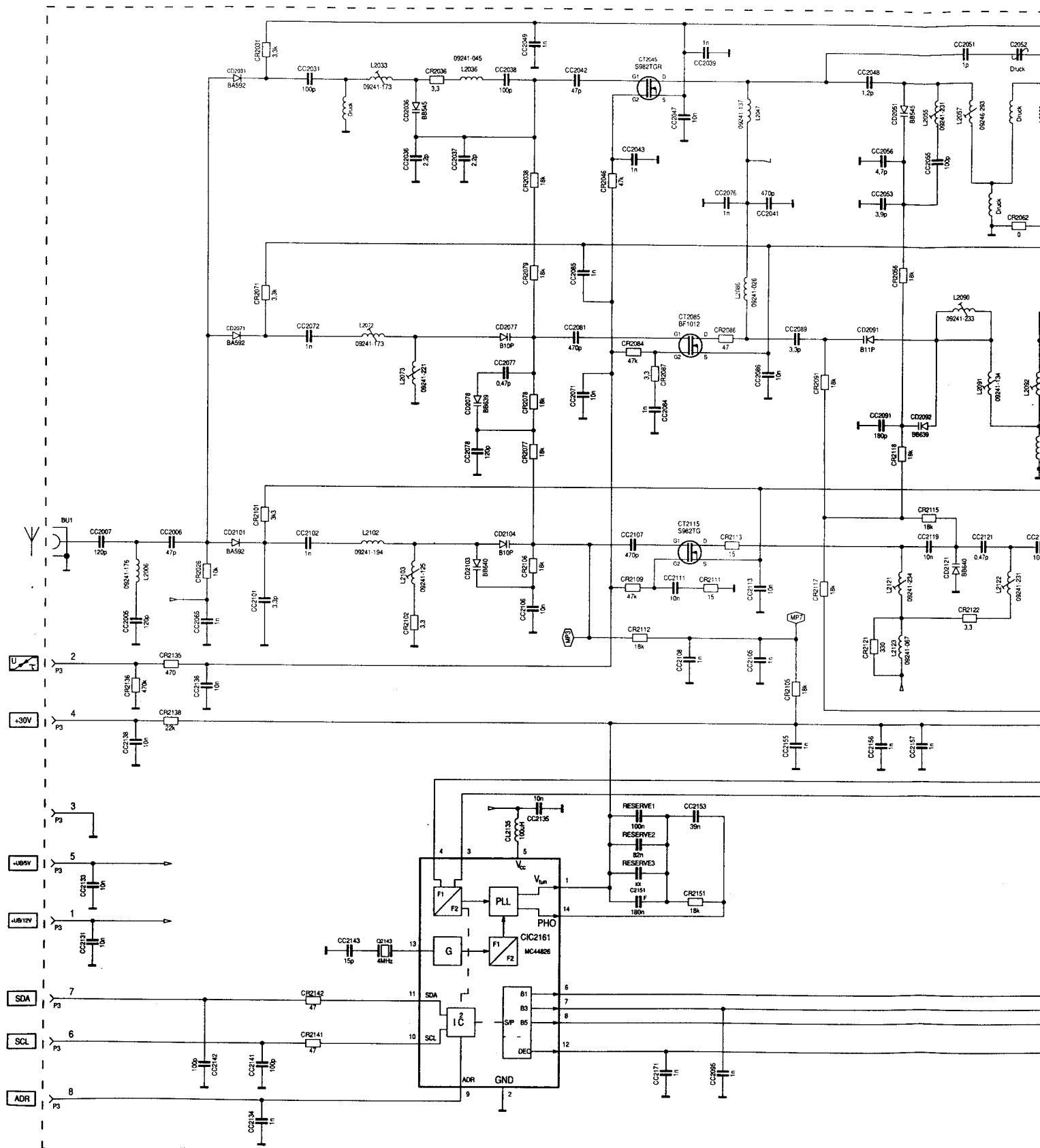
ZUR KH-BUCHSE TO HEADPHONE SOCKET VERS PRISE CASQUE ALLA PRESA CUFFIA A LA TOMA DE AURICUL.

ENTFAELT BEI EXT. KH-BUCHSE NOT FITTED IN EXT. HEADPHONE SUPPOME SUR EXT. C.I. CASQUE MANCA CON PER PIASTRA CUFFIA ESTERNA SUPRIMIDO EN EXT. PLACA DE AURICULARES

ZF-Verstärker / IF Amplifier / Amplificatore FI

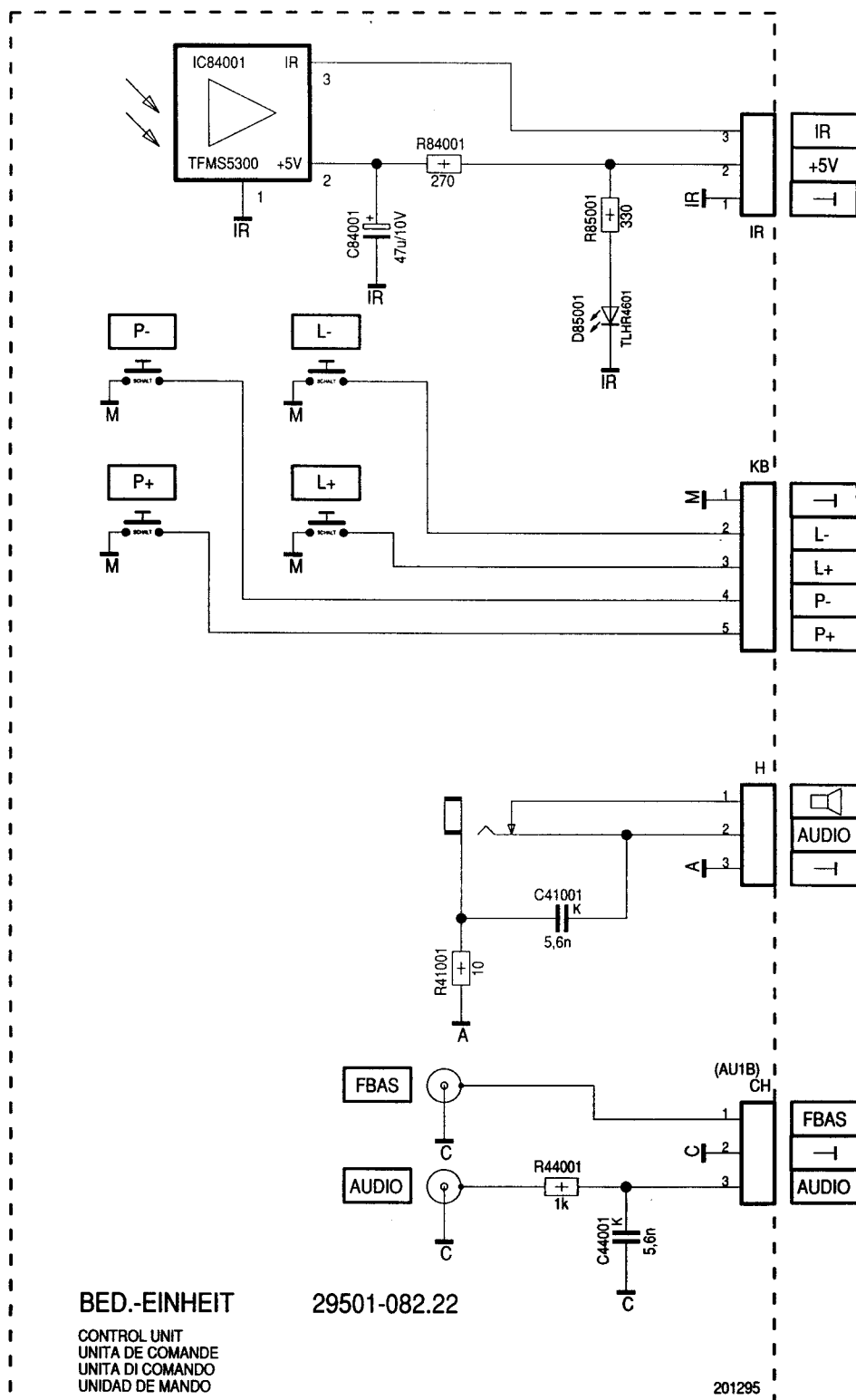








Bedieneinheit / Control Unit / Unita di Comando

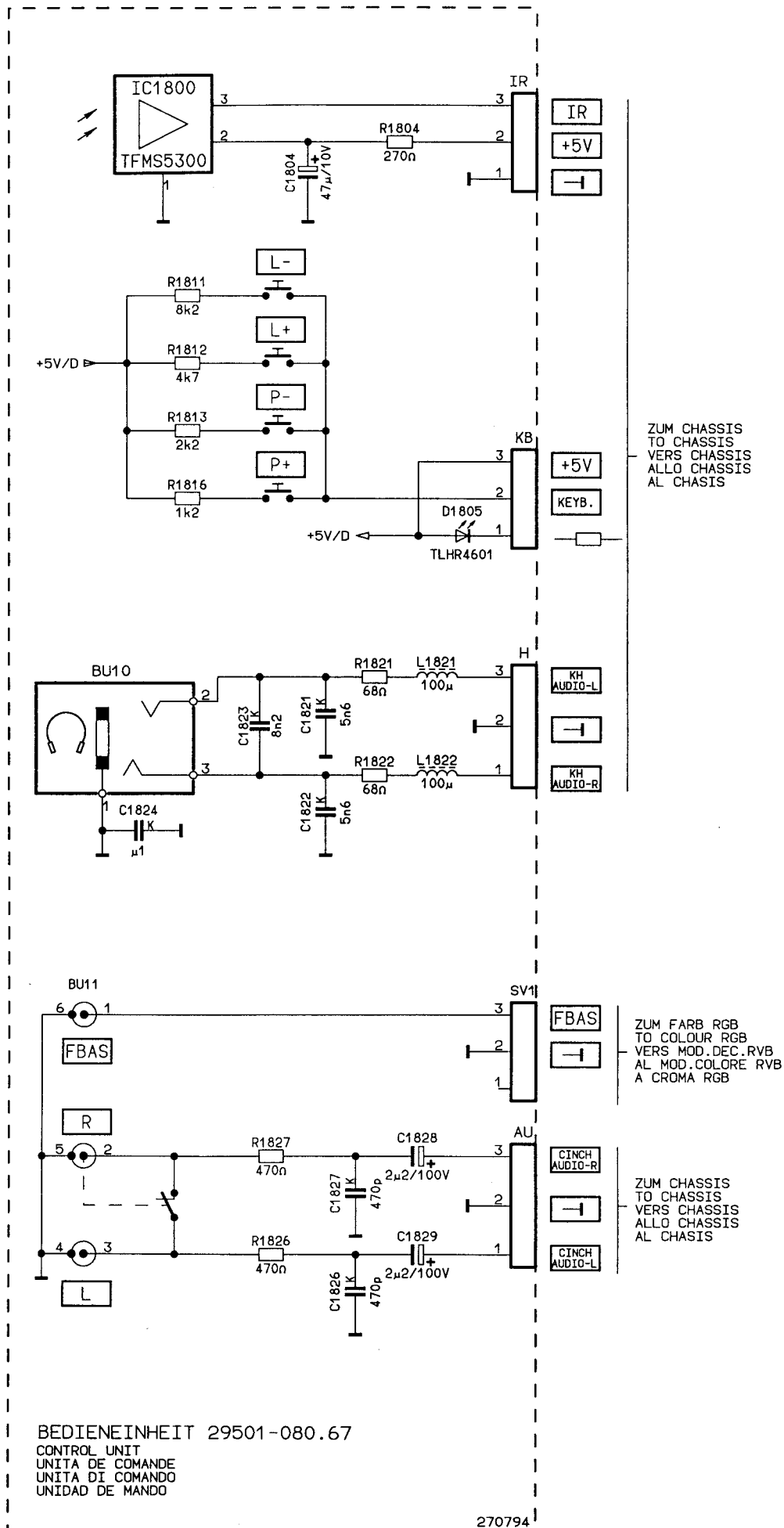


FEUR CUC 6310 T 70-740 TEXT
DRUCK: 29304-702.94

Bedieneinheit / Control Unit / Unità di Comando

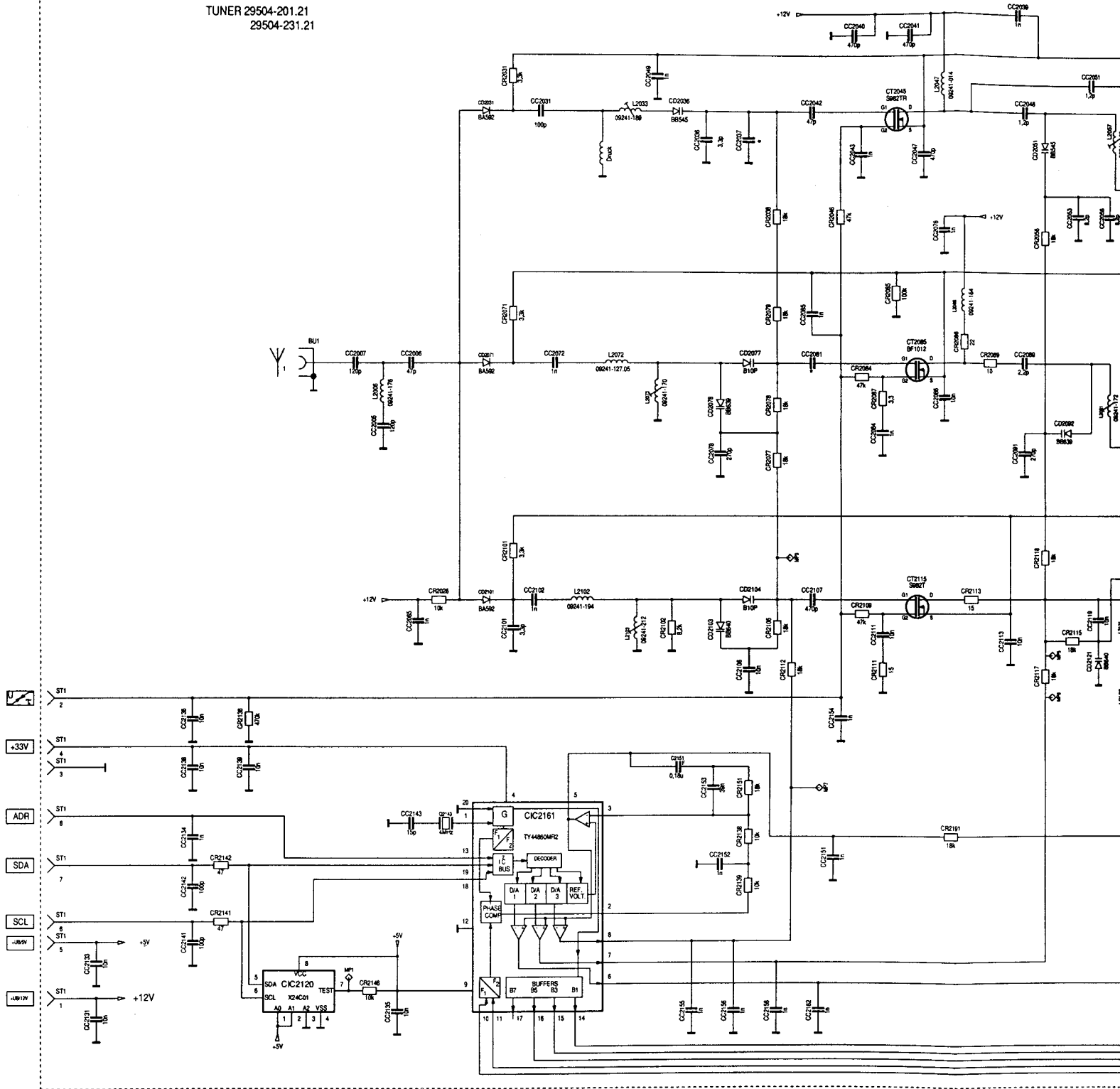
ZUR BILDROHR-PLATTE
TO CRT BASE
VERS C.I.T. TUBE CATHOD
ALLA PIASTRA CINESCO.
A LA PLACA ZODIAC TRC

TO VELOCITY MODULATOR BOARD
VERS PLAQUE REGULATEUR DE VITESSE
ALLA PIASTRA MODULATORE DI VELOCITÀ
A LA PLACA MODULADOR DE VELOCIDAD



270794

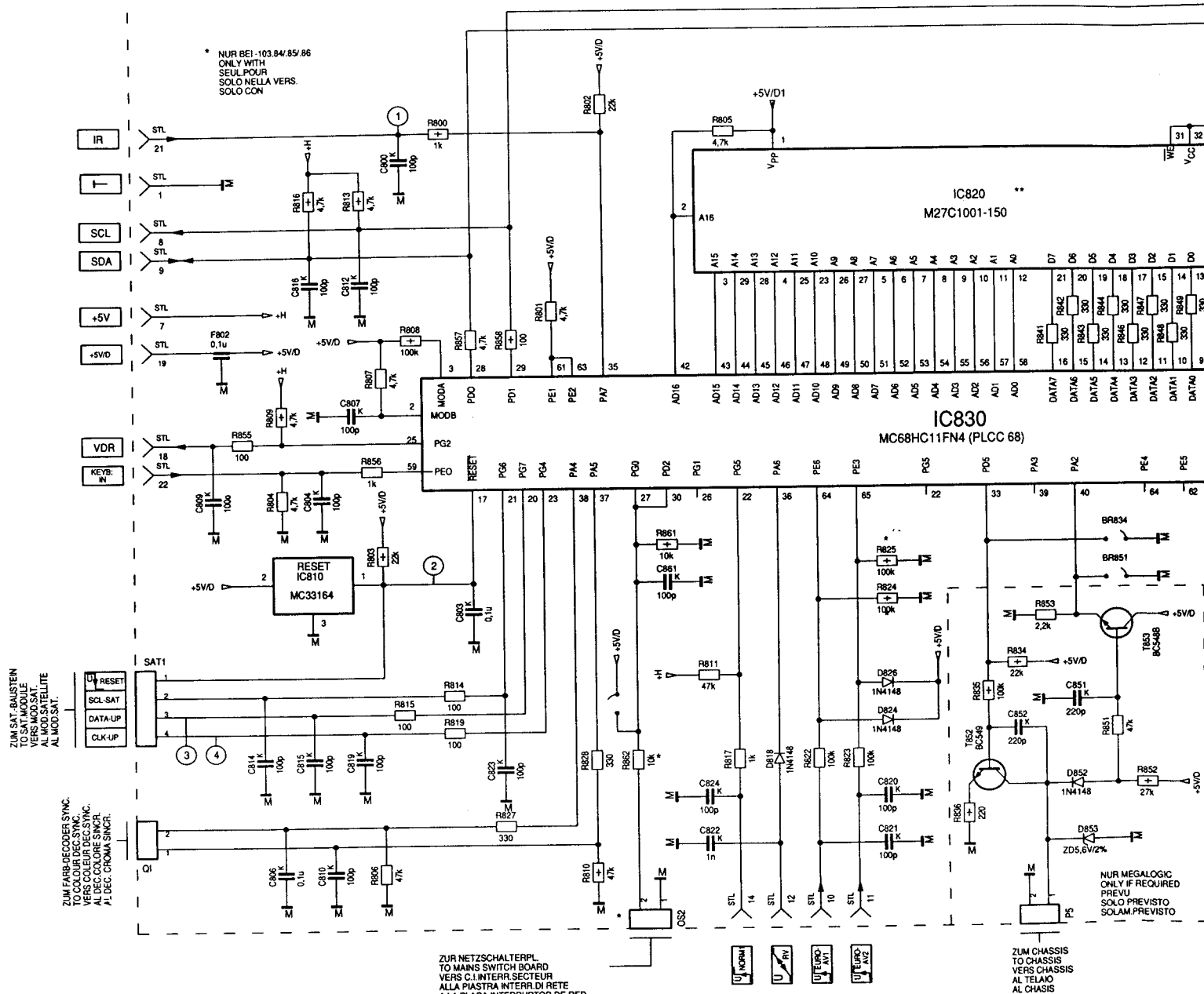
TUNER 29504-201.21
29504-231.21



Abstimm Textbaustein / Tuning Text Module / Mod. Sintonia Televideo

ABSTIMM/TEXT/-BAUST. 29504-103.81/82/83/84/85/86
TUNING TEXT MODULE
SYNT. TELETEXTE MOD.
MOD. SINTONIA/TELEVIDEO
MOD. SINTONIA/TELETEXT

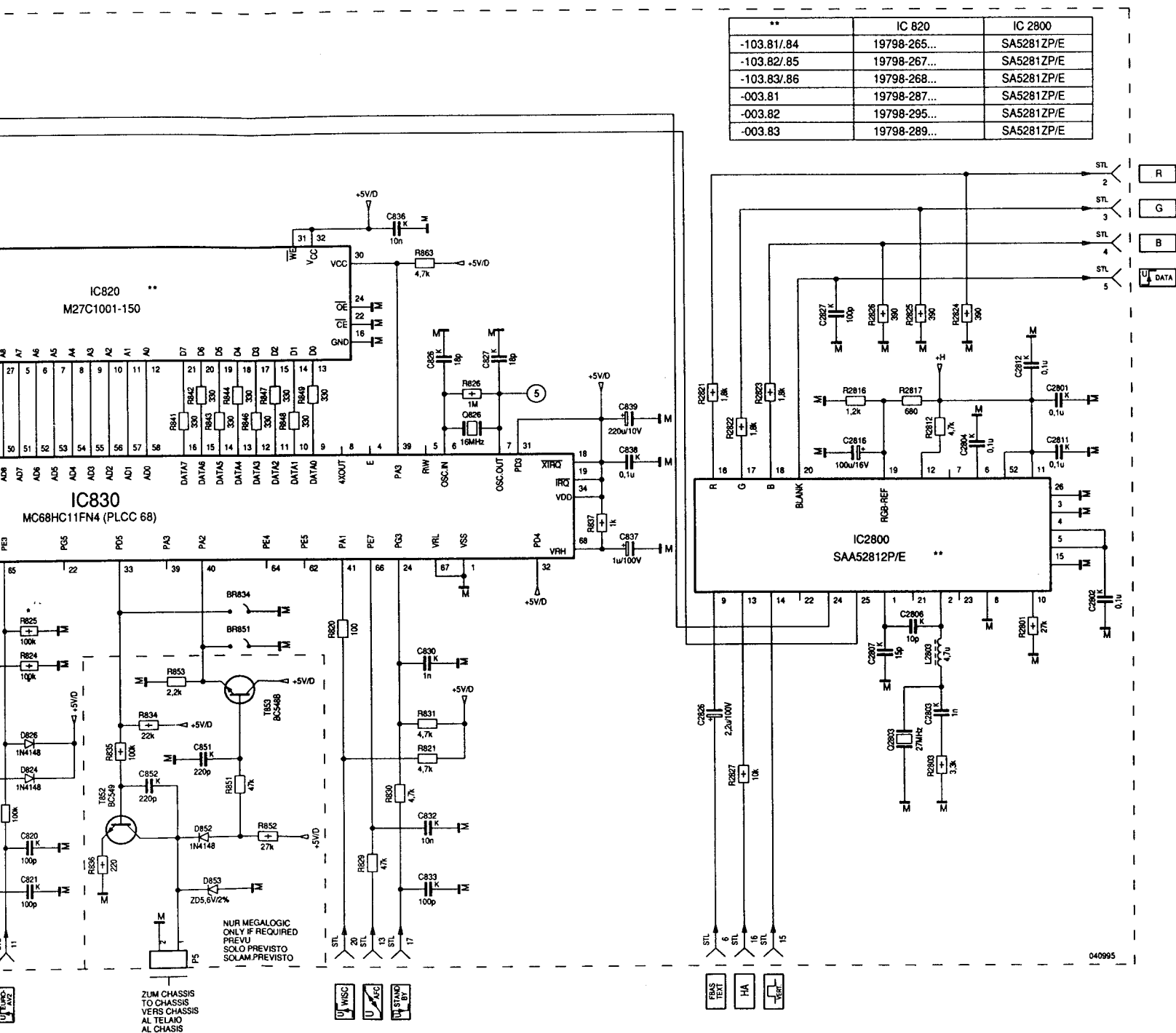
* NUR BEI -103.84/85/86
ONLY WITH
SEUL POUR
SOLO NELLA VERS.
SOLO CON



ZUR NETZSCHALTERPL.
TO MAINS SWITCH BOARD
VERS C.I. INTERR. SECTEUR
ALLA PIASTRA INTERRU. DI RETE
A LA PLACA INTERRUPTOR DE RED

ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL CHASSIS

NUR MEGALOGIC
ONLY IF REQUIRED
PREVU
SOLO PREVISTO
SOLO PREVISTO



Abstimm-Textbaustein / Tuning Text Module / Mod. Sintonia Televideo

ABSTIMM/TEXT-BAUST. 29504-103.71
TUNING TEXT MODULE
SYNT. TELETEXTE MOD.
MOD. SINTONIA/TELEVIDEO
MOD. SINTONIA/TELETEXTO

-103.72
-103.73
-103.74
-103.75
-103.76
-103.77
-103.78
-103.79
-103.80
-103.87
-103.88
-103.89
-103.95
-003.87

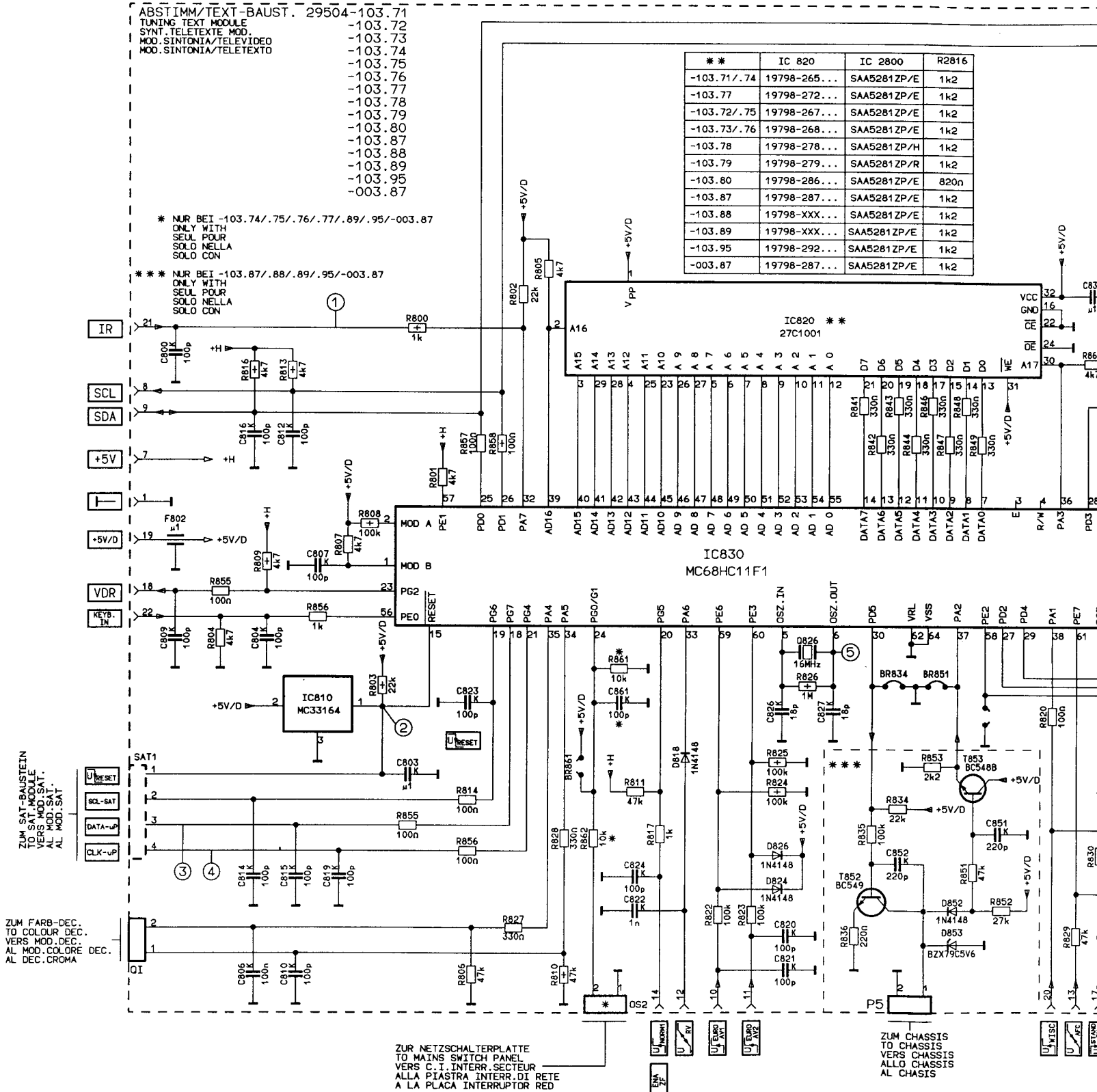
* NUR BEI -103.74/.75/.76/.77/.89/.95/-003.87

ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON

*** NUR BEI -103.87/.88/.89/.95/-003.87

ONLY WITH
SEUL POUR
SOLO NELLA
SOLO CON

**	IC 820	IC 2800	R2816
-103.71/.74	19798-265...	SAA5281ZP/E	1k2
-103.77	19798-272...	SAA5281ZP/E	1k2
-103.72/.75	19798-267...	SAA5281ZP/E	1k2
-103.73/.76	19798-268...	SAA5281ZP/E	1k2
-103.78	19798-278...	SAA5281ZP/H	1k2
-103.79	19798-279...	SAA5281ZP/R	1k2
-103.80	19798-286...	SAA5281ZP/E	820n
-103.87	19798-287...	SAA5281ZP/E	1k2
-103.88	19798-XXX...	SAA5281ZP/E	1k2
-103.89	19798-XXX...	SAA5281ZP/E	1k2
-103.95	19798-292...	SAA5281ZP/E	1k2
-003.87	19798-287...	SAA5281ZP/E	1k2



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	IC 2800	R2816
265...	SAA5281 ZP/E	1k2
272...	SAA5281 ZP/E	1k2
267...	SAA5281 ZP/E	1k2
268...	SAA5281 ZP/E	1k2
278...	SAA5281 ZP/H	1k2
279...	SAA5281 ZP/R	1k2
286...	SAA5281 ZP/E	820n
287...	SAA5281 ZP/E	1k2
288...	SAA5281 ZP/E	1k2
289...	SAA5281 ZP/E	1k2
292...	SAA5281 ZP/E	1k2
287...	SAA5281 ZP/E	1k2

