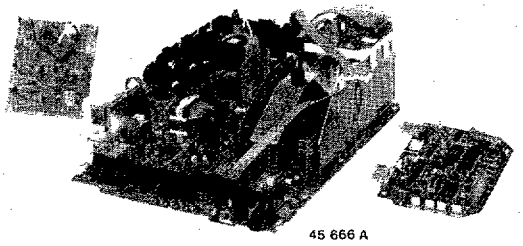
Colour television Chassis GR2.1

AB

Service
Service
Service



45 666 A

Service Manual

Contents

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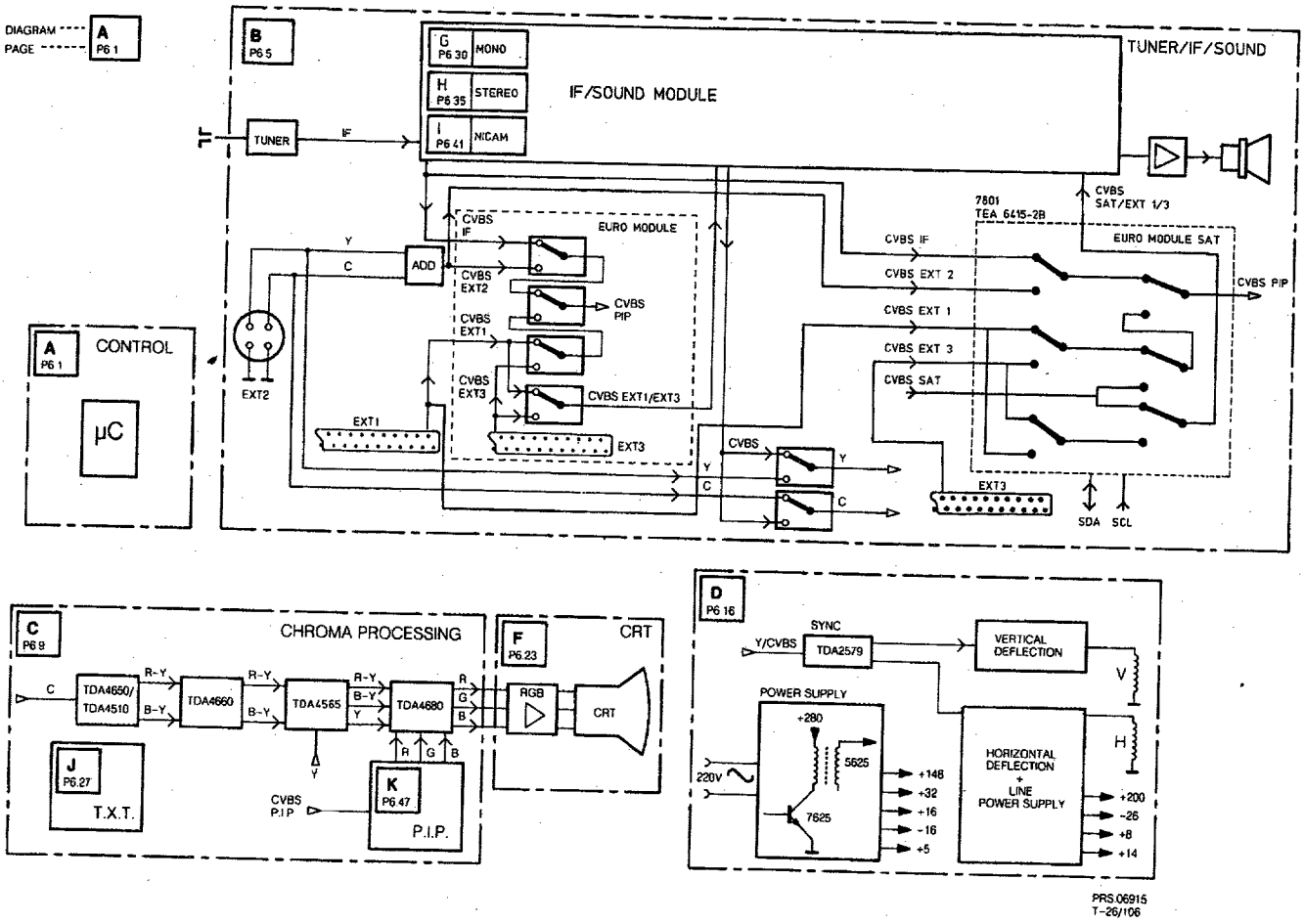
Block diagram



Technical specification

Mains voltag	:220 - 240 V (±10%)
Mains frequency	:50 Hz (± 10%)
Aerial input impedance	:75Ω - coax
Minimum aerial voltage	:40µV
Maximum aerial voltage	:32mV
Pull-in range colour synchronization	:±300Hz
Pull-in range horizontal synchronization	:±300Hz

Local operation functions:

P +; P -; ◿ +; ◿ -; install

Programmes: 0-59
VCR operation on programmes: 0-59

Indications:

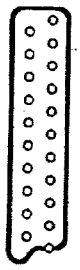
- On Screen Display (OSD)

- LED: - standby (red)
  - operation (green)
  - RC5 reception (flashing yellow)
  - internal fault in µP (flashing)

Connection facilities

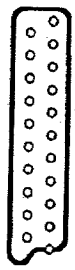
1. Specification of the terminal sockets

EXT1



1 - Audio ⊖ R (0,5V_{RMS} ≤ 1kΩ)
2 - Audio ⊕ R (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
3 - Audio ⊖ L (0,5V_{RMS} ≤ 1kΩ)
4 - Audio ⊥
5 - Blue ⊥
6 - Audio ⊕ L (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
7 - Blue ⊕ (0,7V_{pp}/75Ω)
8 - RC5 ⊖ (500-800mV_{pp}) + CVBS-Status 1 ⊕ (0-2V: int.; 9,5-12V: ext.)
9 - Green ⊥
10 - -
11 - Green ⊕ (0,7V_{pp}; 75Ω)
12 - -
13 - Red ⊥
14 - -
15 - Red ⊕ (0,7V_{pp}; 75Ω)
16 - RGB-Status (0-0,4V: int. 1-3V ext. 75Ω)
17 - CVBS ⊖ ⊥
18 - CVBS ⊕ ⊥
19 - CVBS ⊖ (1V_{pp}/75Ω)
20 - CVBS ⊕ (1V_{pp}/75Ω)
21 - Earth screen

EXT3



1 - Audio ⊖ R (0,5V_{RMS}; ≤ 1kΩ)
2 - Audio ⊕ R (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
3 - Audio ⊖ L (0,5V_{RMS}; ≤ 1kΩ)
4 - Audio ⊥
5 -
6 - Audio ⊕ L (0,2 - 2V_{RMS}; 0,5 V_{nom}; ≥ 10kΩ)
7 - -
8 - CVBS status 3 ⊖ (0-2V: int.; 9,5-12V: ext.)
9 - -
10 - -
11 - -
12 - -
13 - -
14 - -
15 - -
16 - -
17 - CVBS ⊖ ⊥
18 - CVBS ⊕ ⊥
19 - CVBS ⊖ (1V_{pp}/75Ω)
20 - CVBS ⊕ (1V_{pp}/75Ω)
21 - Earth screen

EXT2

1 - ⊥
2 - ⊥
3 - Y ⊕ (1V_{pp}; 75Ω)
4 - C ⊕ (1V_{pp}; 75Ω)

2x ⊙ CINCH Audio ⊕ L+R (0,2-2V_{RMS}; 0,5 V_{nom} ≥ 10kΩ)

Audio out

2x ⊙ CINCH Audio ⊖ L+R (0,5V_{RMS}; ≤ 1kΩ)

Front

≥ 8Ω

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.1 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

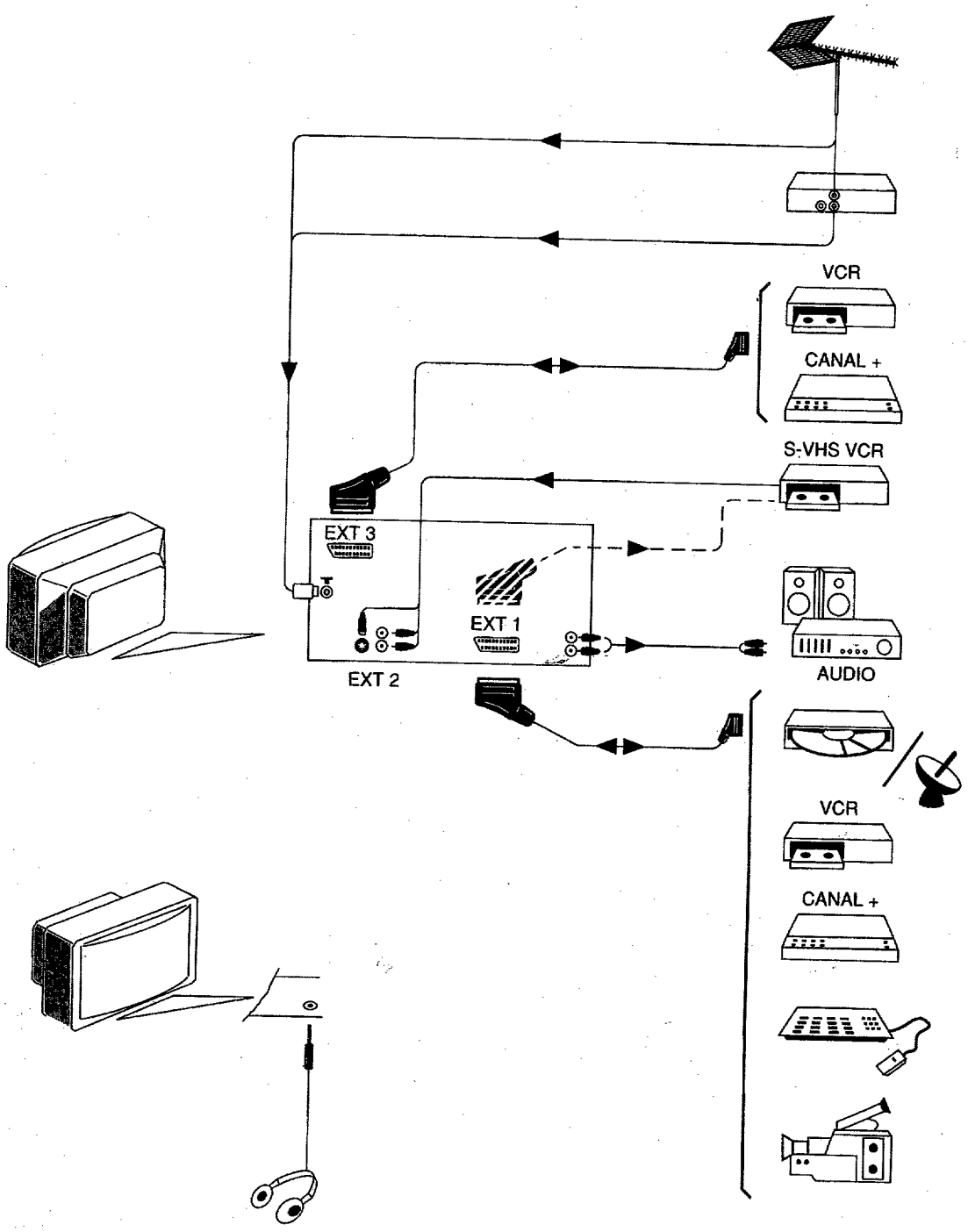


Fig. 2.1

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol⚠.
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).
3. **ESD**

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
    The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.
11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

Notes

1. The cold chassis direct voltages and oscillograms should be measured with regard to the tuner earth (⊥). Voltages on the line mains side of the SOPS transformer 5625 should be measured with respect to (⊥f).
2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).
3. Where necessary, the oscillograms and direct voltages are measured with (⊤) and without aerial signal(⊼). Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏻). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
   The order numbers of these extension cards are:
   * 6 times: 4822 395 30259
   * 8 times: 4822 214 31402
8. Both multisystem and single system units are mentioned in this documentation.
   The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
   The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).
9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

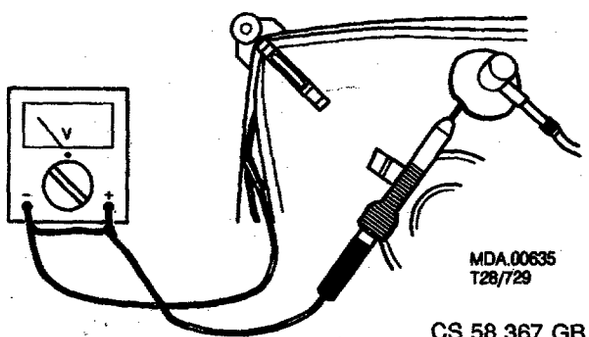


Fig. 3.1

Mechanical instructions

1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath **and possibly under the EXT 3 connection** (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

2. Service position 1

Service position for module service and to measure test points
Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).
In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

3. Service position 2

Service position for repair
Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).
Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!

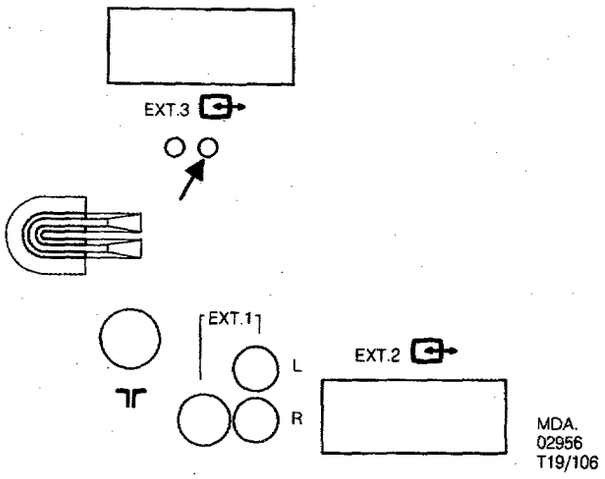


Fig. 4.1

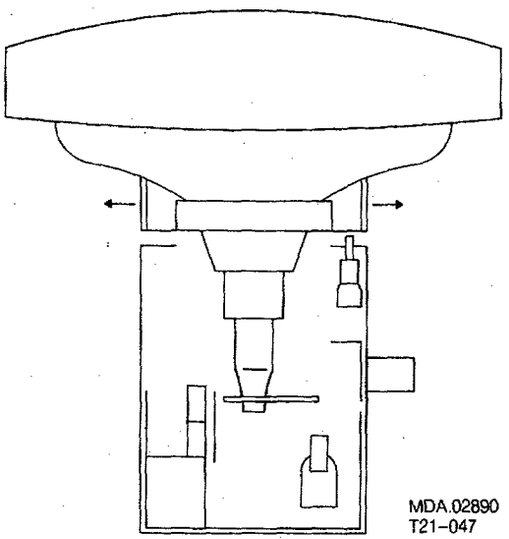


Fig. 4.2

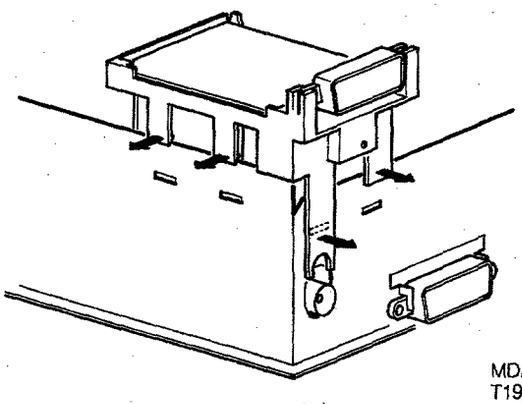


Fig. 4.3

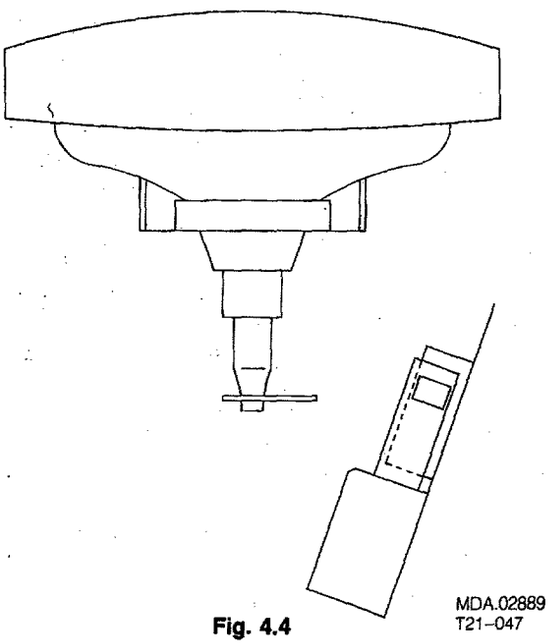
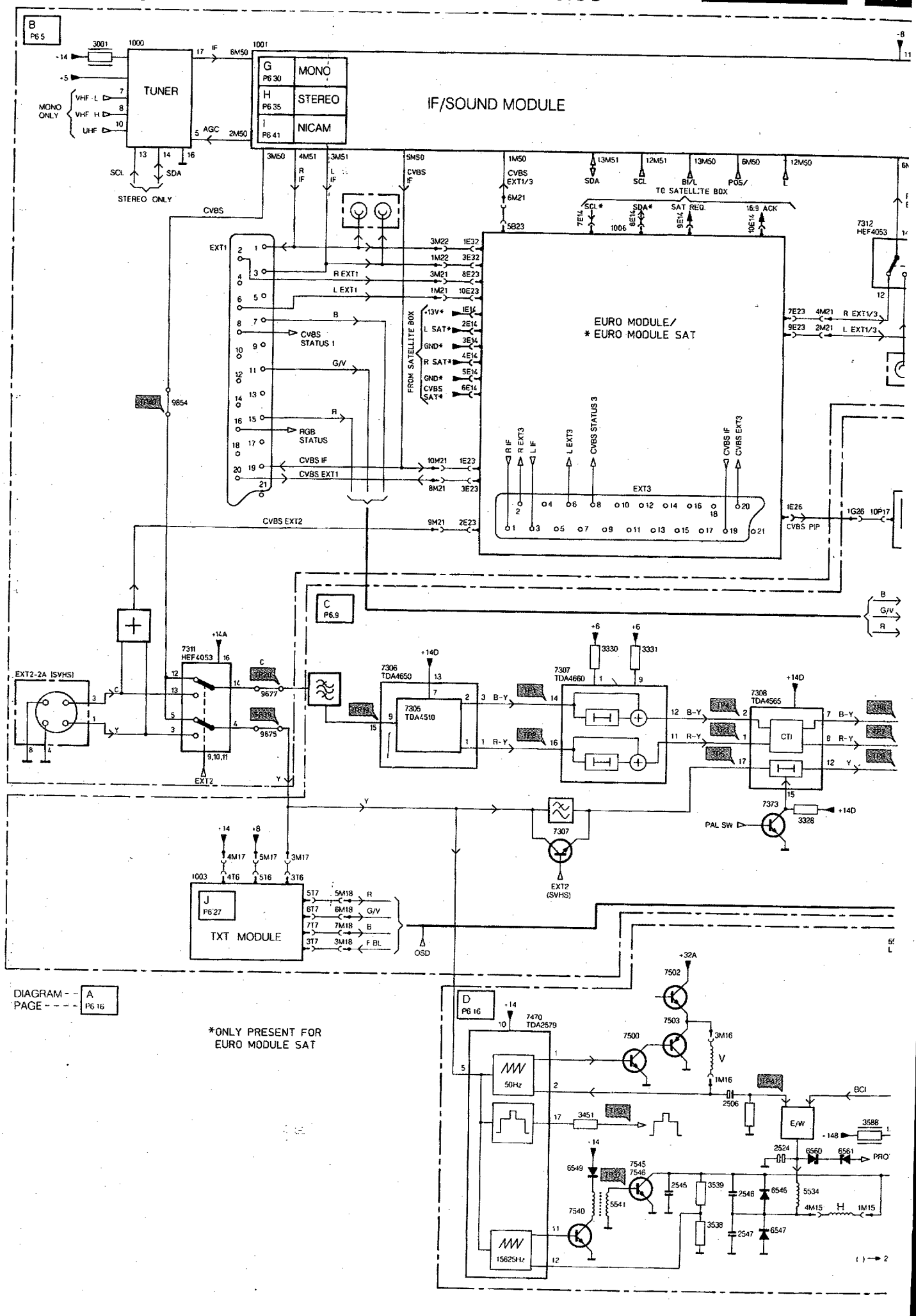
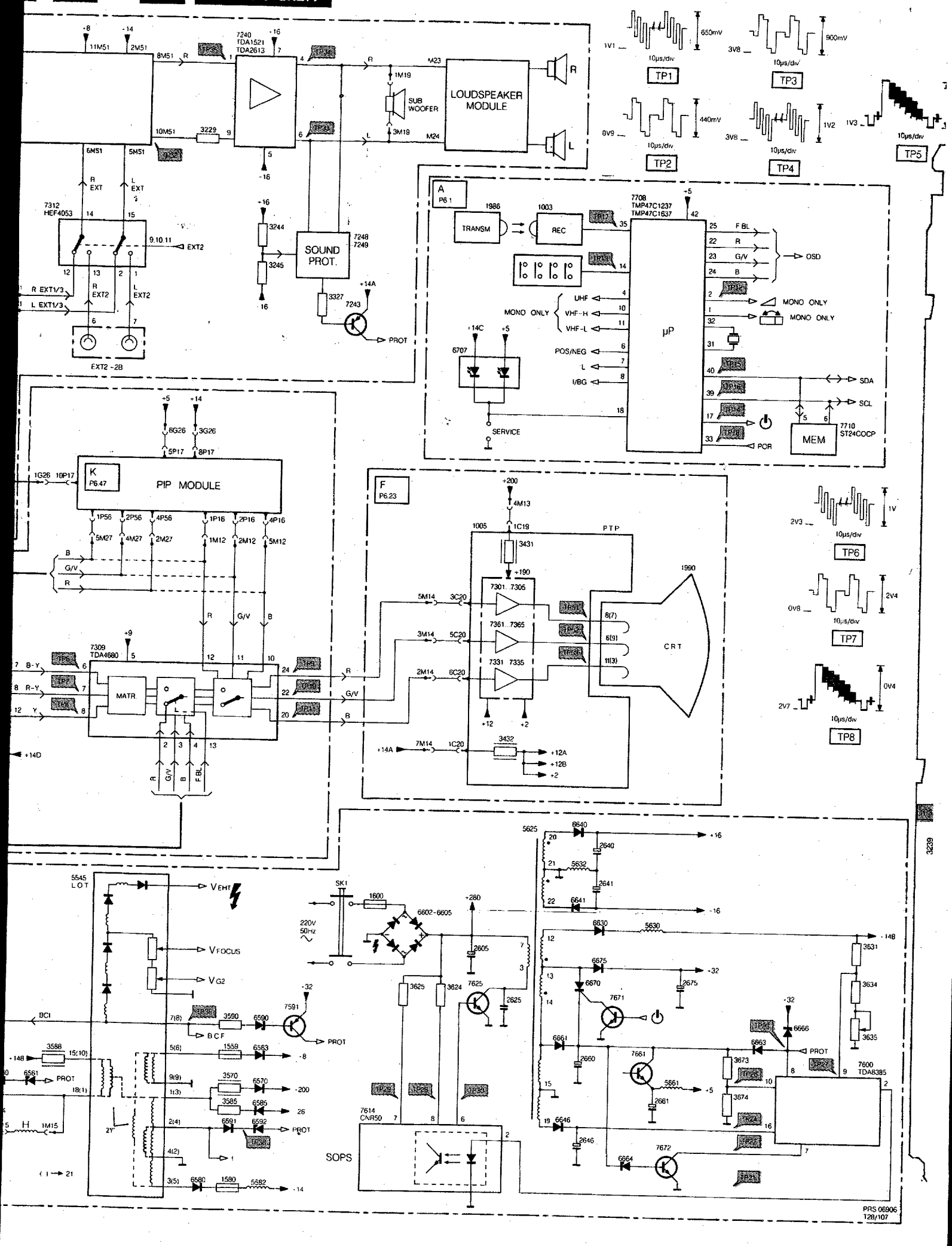
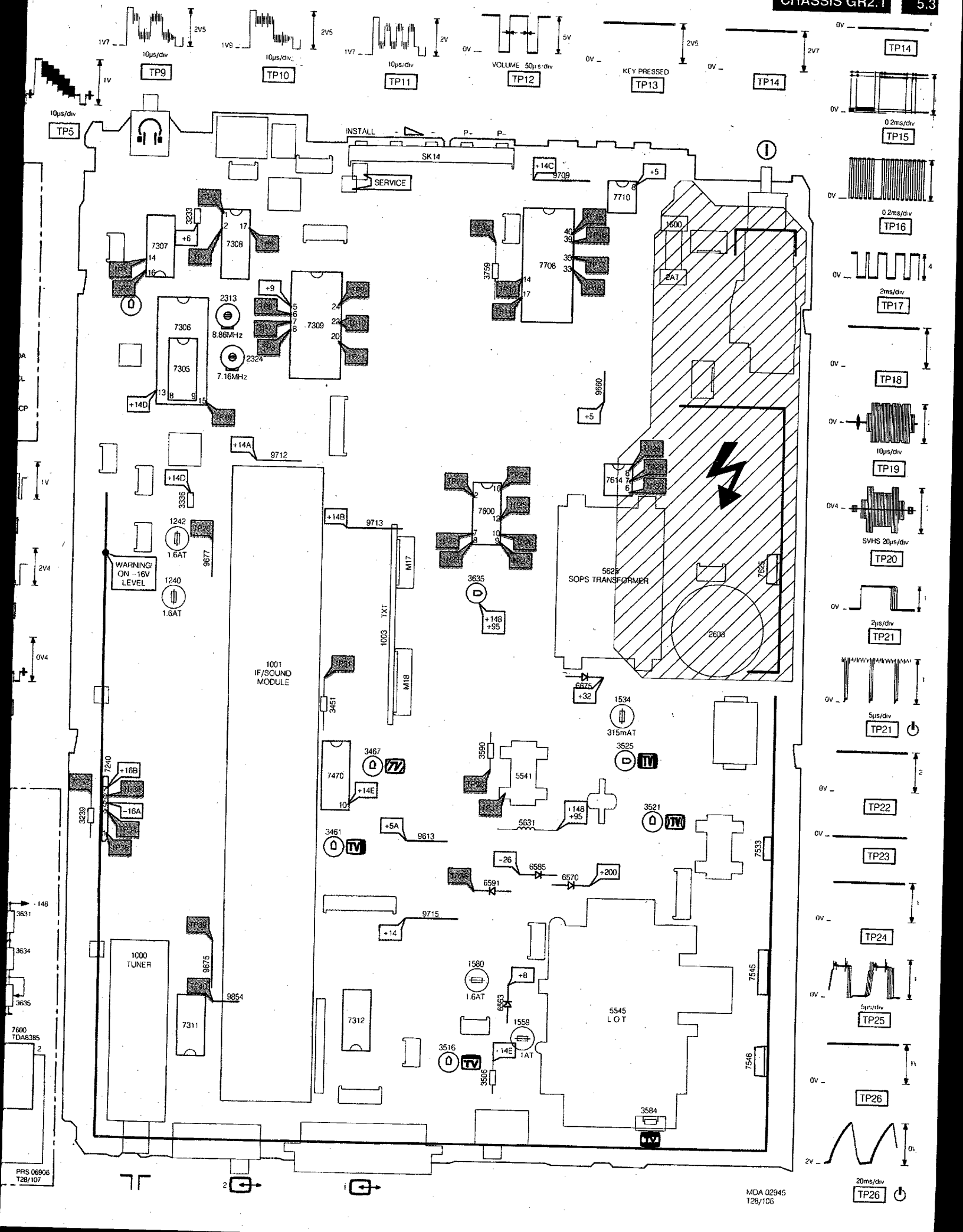


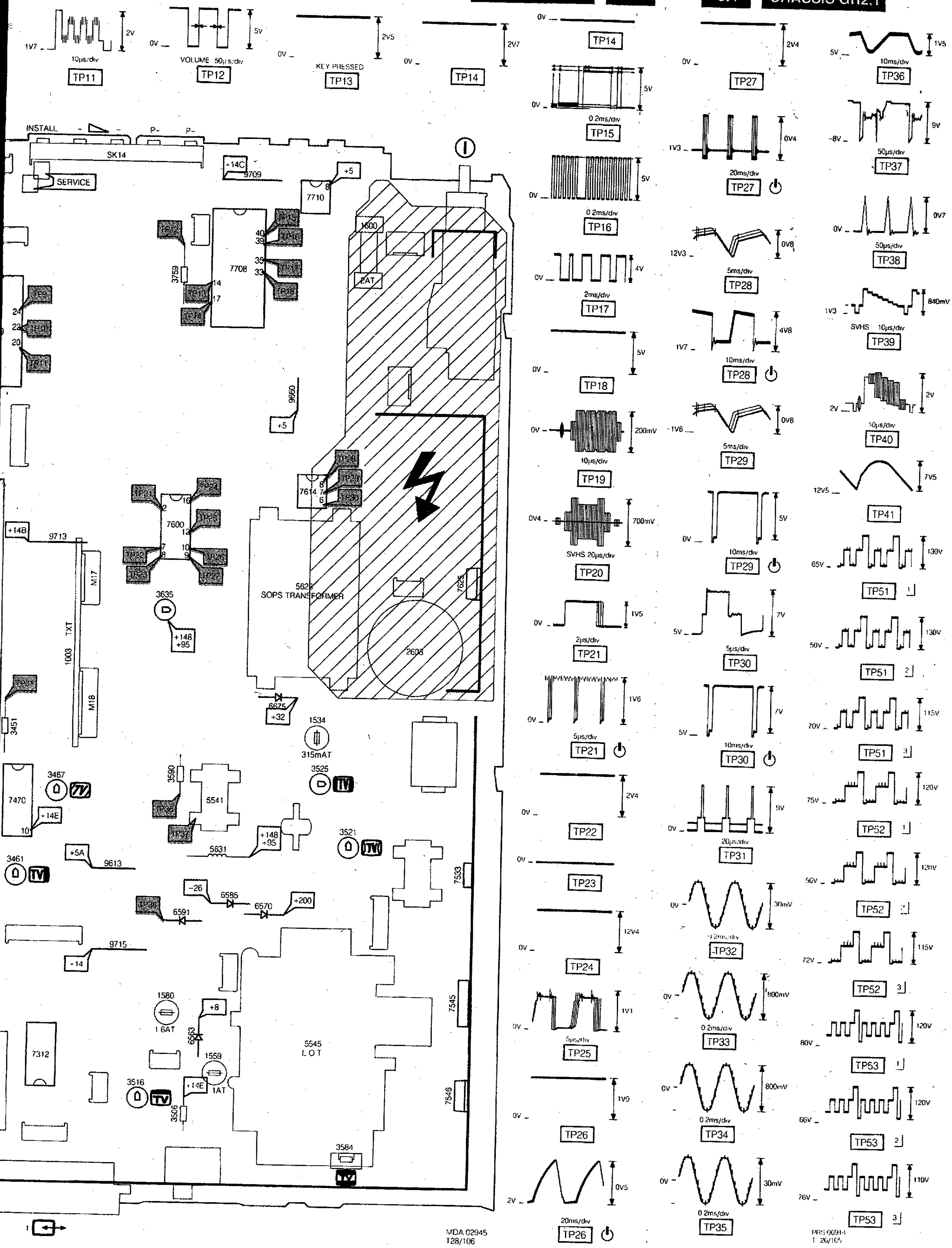
Fig. 4.4

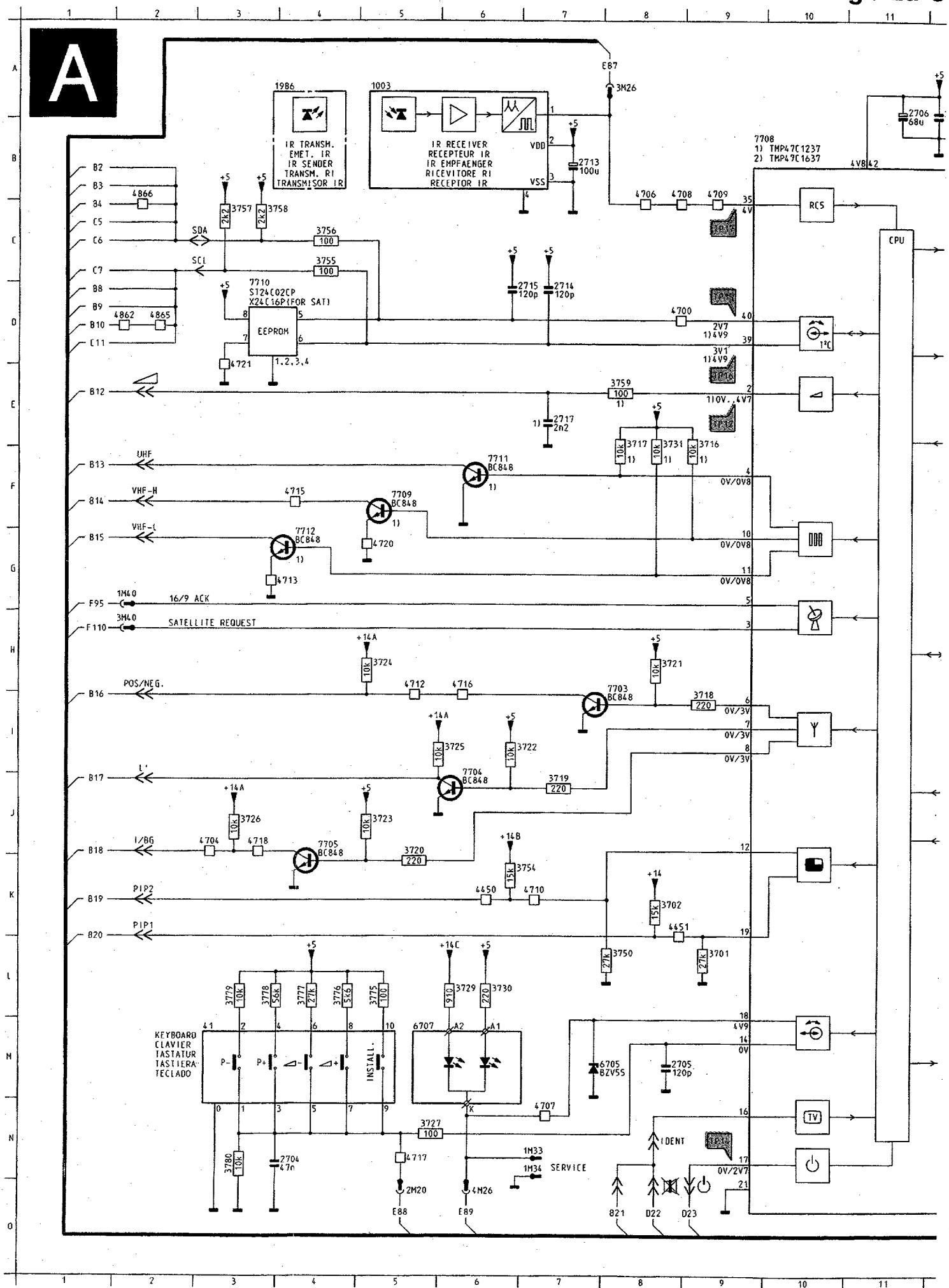
Blockdiagram / Blockschaltbild / Schéma-bloc



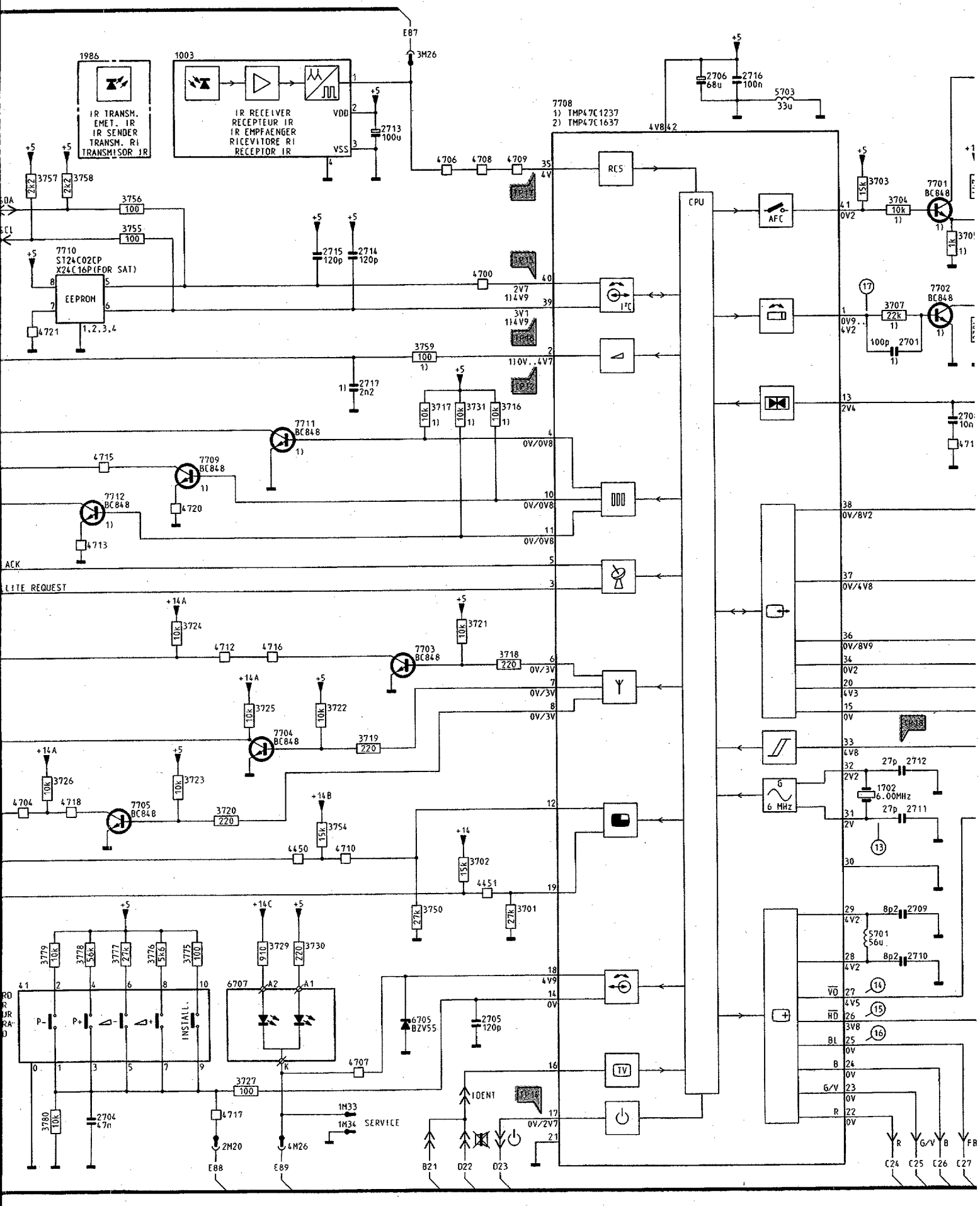

LOUDSPEAKER MODULE
SUB WOOFER
SOUND PROT.
7240 TDA1521 TDA2613
7312 HEF4053
EXT2 -2B
TRANSM
REC
7708 TMP47C1237 TMP47C1637
μP
OSD
MONO ONLY
SERVICE
7710 ST24COCP
MEM
PIP MODULE
MATR.
PTP
CRT
7309 TDA4680
7301...7305
7361...7365
7331 7335
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
5545 LOT
VEHT
VFOCUS
VG2
220V 50Hz
6602-6605
SOPS
7614 CNR50
7600 TDA8385
PROT
PRS 06906 T28/107
3239


TP5
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
INSTALL
SK14
SERVICE
1000 TUNER
1001 IF/SOUND MODULE
5628 SOPS TRANSFORMER
5545 LOT
WARNING! ON -16V LEVEL
8.86MHz
7.16MHz
1.6AT
315mAT
2AT
PRS 06906 T28/107
MDA 02945 T26/106

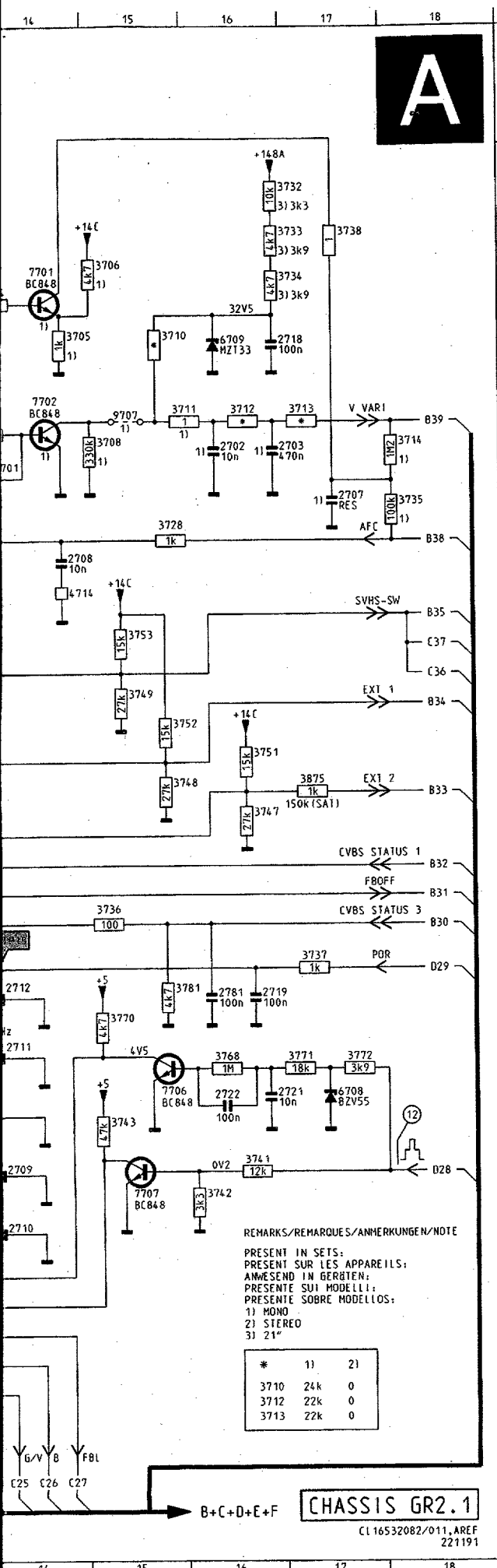

INSTALL
SK14
SERVICE
7708
7710
7600
7614
5625
SOPS TRANSFORMER
2603
1003 TXT
M17
M18
7470
5541
5631
1534
315mAT
5545
LOT
1580
1.6AT
1559
1AT
7312
3584
MDA 02945
T28/106
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
TP32
TP33
TP34
TP35
TP36
TP37
TP38
TP39
TP40
TP41
TP51
TP52
TP53
VOLUME 50μs/div
KEY PRESSED
SVHS 20μs/div
SVHS 10μs/div


A
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
EEPROM
SDA
SCL
UHF
VHF-H
VHF-L
16/9 ACK
SATELLITE REQUEST
POS/NEG.
PIP2
PIP1
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
INSTALL.
SERVICE
IDENT
CPU
RC5
E87
E88
E89
821
D22
D23

Controls / Bedienung / La Commande



Loudspeaker module
Lautsprecher-Platte
Module haut parleur



	1003	A 5	6709	C16
	1702	J13	7701	C14
	1986	A 3	7702	D14
	2701	E14	7703	I 8
A	2702	E16	7704	J 6
	2703	E16	7705	J 4
	2704	N 4	7706	K15
	2705	M 8	7707	L15
	2706	A11	7708	B 9
	2707	E17	7709	F 5
	2708	F14	7710	D 3
	2709	L14	7711	F 6
B	2710	L14	7712	G 4
	2711	K14	9707	D15
	2712	J14		
	2713	B 7		
	2714	D 7		
	2715	D 6		
	2716	A12		
	2717	E 7		
C	2718	C16		
	2719	J16		
	2721	K16		
	2722	K16		
	2781	J16		
	3701	L 9		
	3702	K 8		
D	3703	C13		
	3704	C14		
	3705	C14		
	3706	C15		
	3707	D14		
	3708	D15		
	3710	C15		
	3711	D16		
E	3712	D16		
	3713	D17		
	3714	D18		
	3716	E 9		
	3717	E 8		
	3718	I 9		
	3719	J 7		
F	3720	K 5		
	3721	H 8		
	3722	I 6		
	3723	J 5		
	3724	H 5		
	3725	I 6		
	3726	J 3		
	3727	N 5		
G	3728	E15		
	3729	L 6		
	3730	L 6		
	3731	E 8		
	3732	B16		
	3733	B16		
	3734	C16		
H	3735	E18		
	3736	I15		
	3737	J17		
	3738	B17		
	3741	L16		
	3742	L16		
	3743	K15		
	3747	H16		
I	3748	H15		
	3749	G15		
	3750	L 8		
	3751	H16		
	3752	G15		
	3753	F15		
	3754	K 6		
J	3755	C 4		
	3756	C 4		
	3757	C 3		
	3758	C 3		
	3759	E 8		
	3768	K16		
	3770	J15		
	3771	K17		
K	3772	K17		
	3775	L 5		
	3776	L 4		
	3777	L 4		
	3778	L 3		
	3779	L 3		
	3780	N 3		
L	3781	J15		
	3875	H17		
	41	M 3		
	4450	K 6		
	4451	K 8		
	4700	D 8		
	4704	J 3		
	4706	B 8		
M	4707	N 7		
	4708	B 8		
	4709	B 9		
	4710	K 7		
	4712	H 5		
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	4715	F 4		
N	4716	H 6		
	4717	N 5		
	4718	J 3		
	4720	G 5		
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	4862	D 2		
	4865	D 2		
	4866	B 2		
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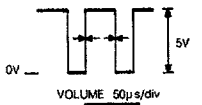
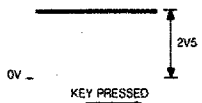
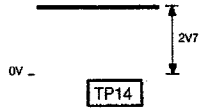
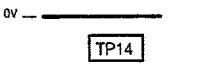
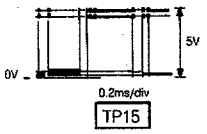
	6708	K17		

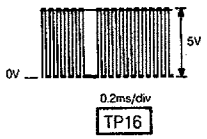


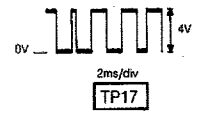


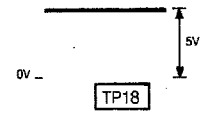


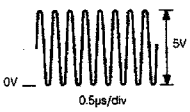


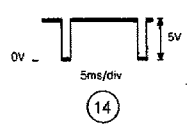


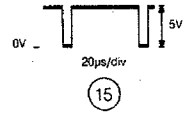


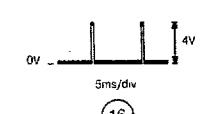


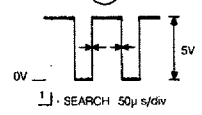


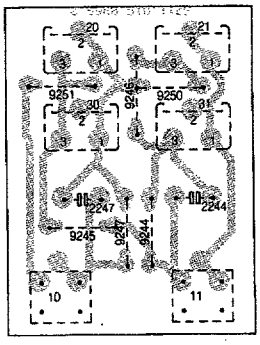








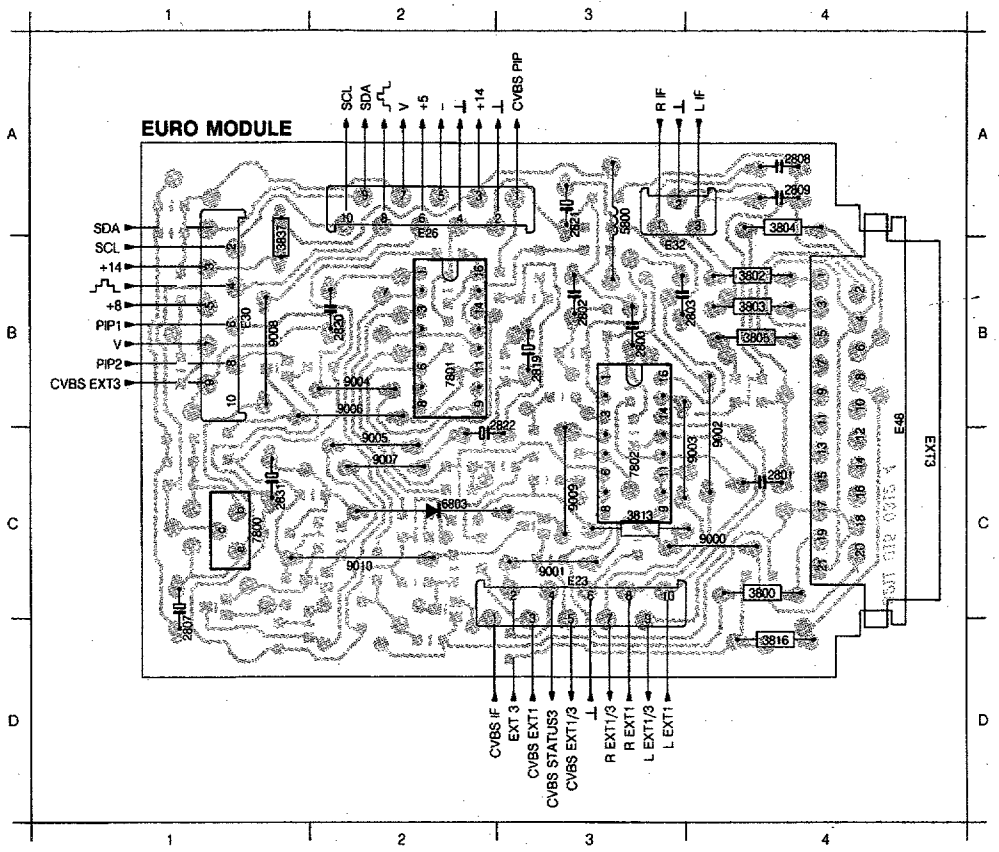


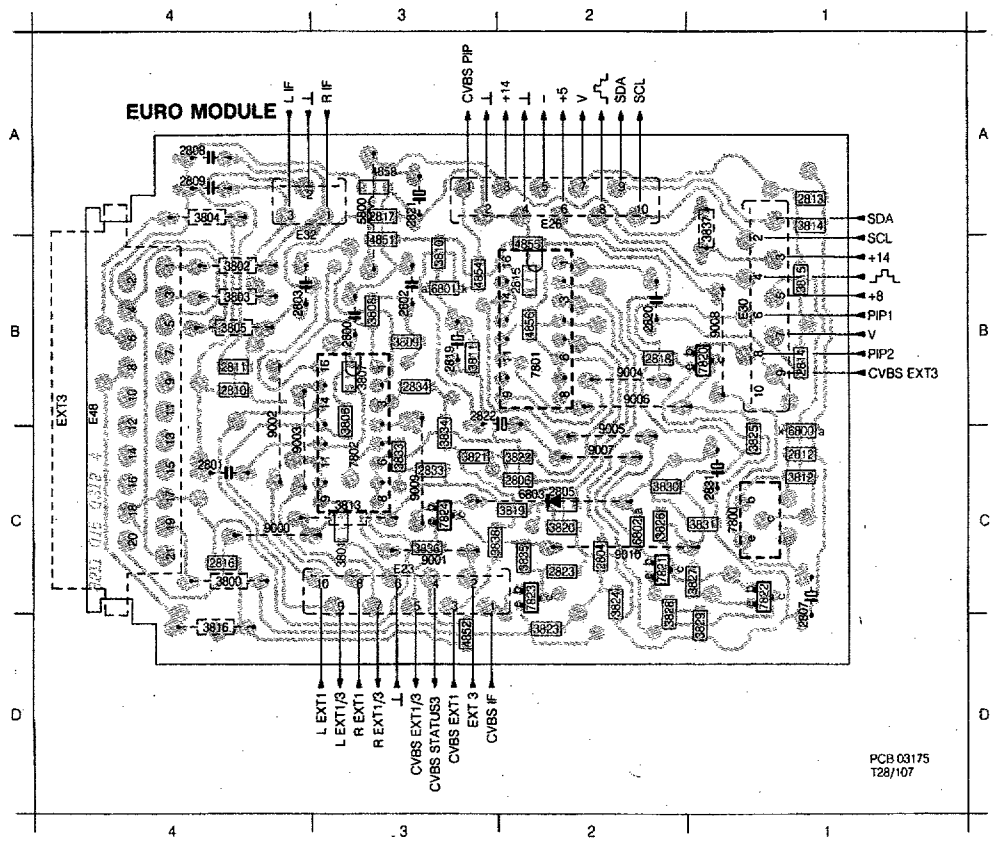


PCB.03166
T28/104

PRS.06912
T-26/105

Euro module
Euro-AV-Platte
Module Prise Péritélévision





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3833 C3
3834 C3
3835 C2
3836 C3
3837 B1
3838 C2
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4854 B3
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6800 C1
6801 B3
6802 C2
6803 C2
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7822 D1
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9001 C3
9002 C4
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9006 B2
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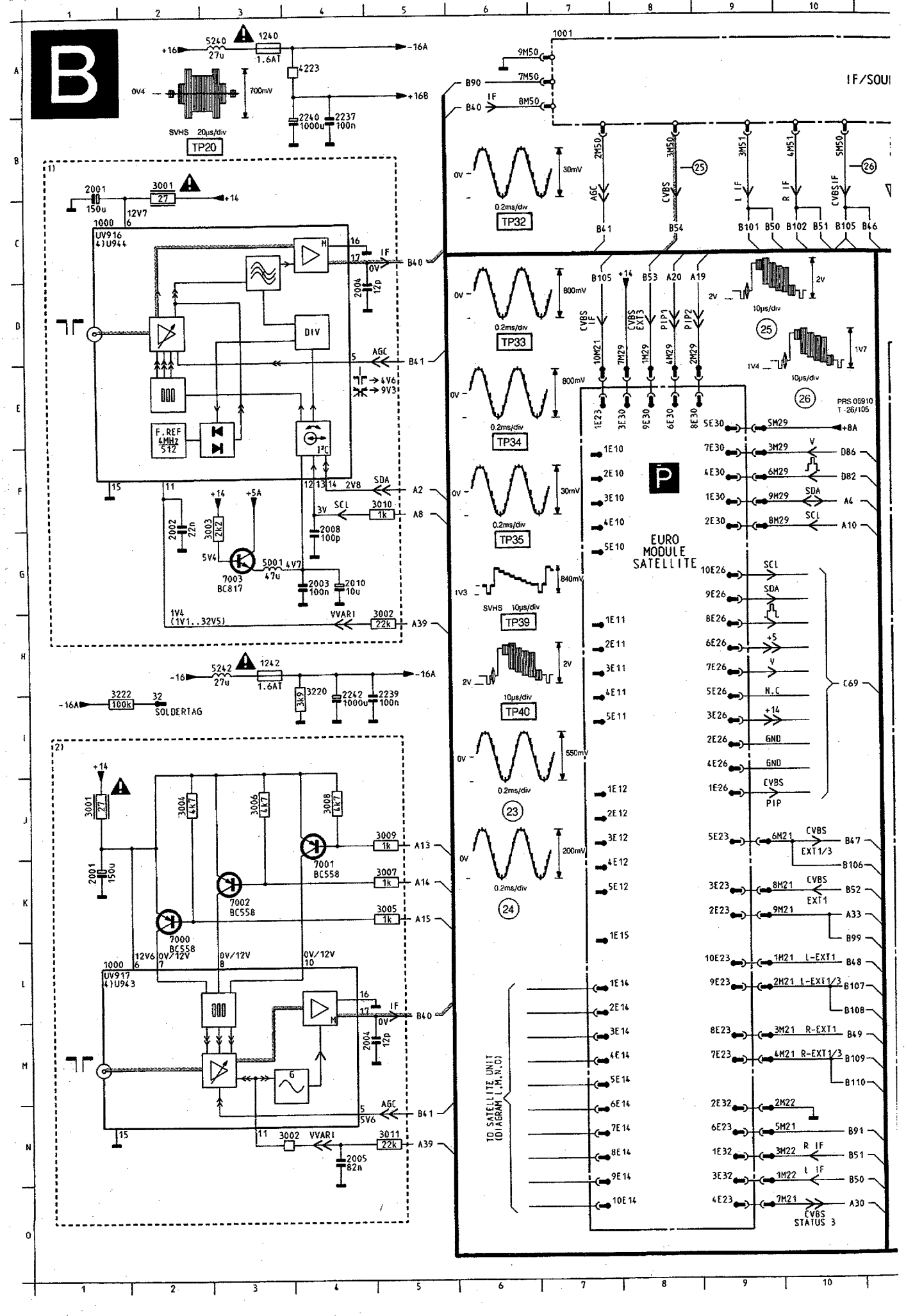
9008 B1
9009 C3
9010 C2

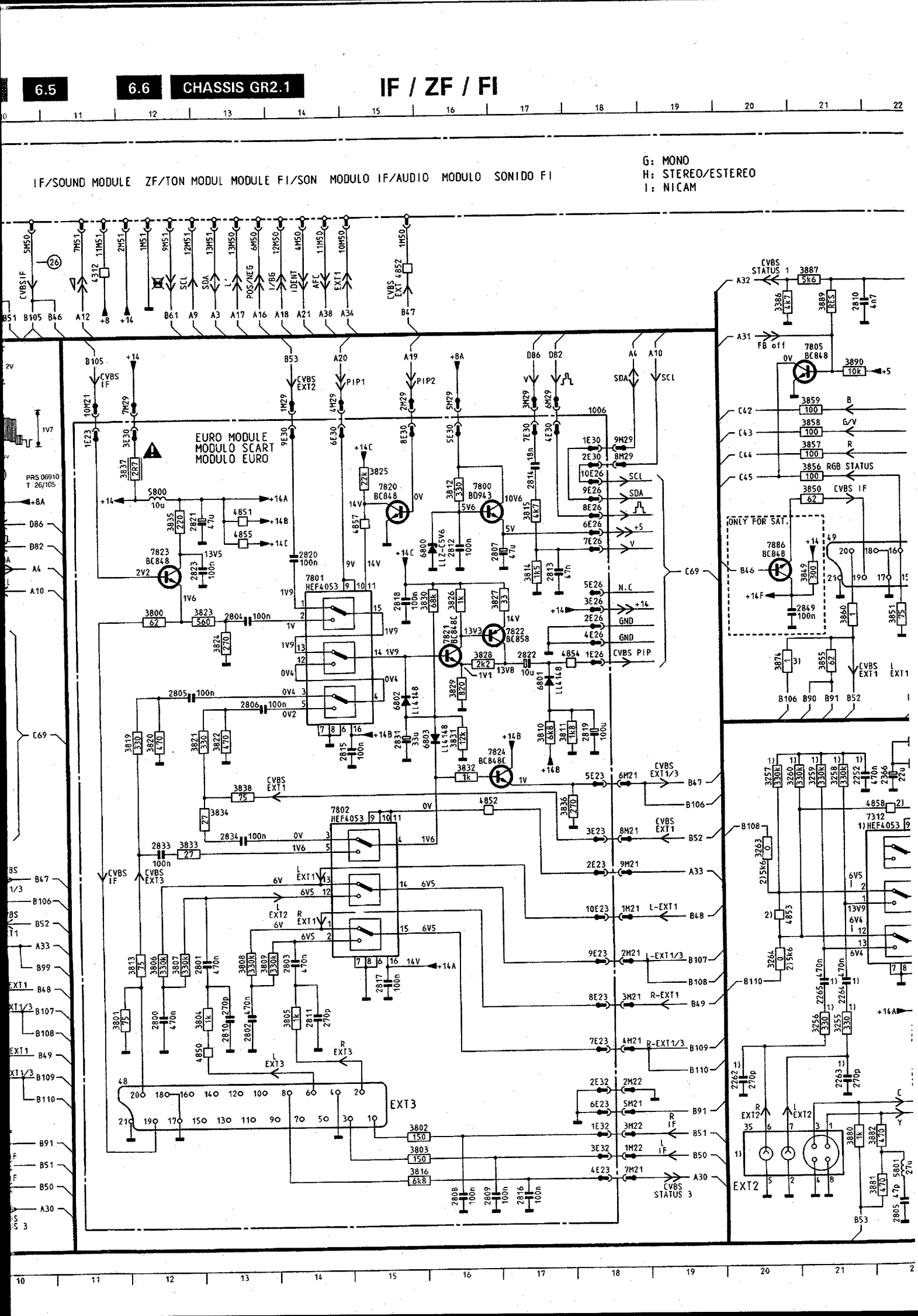
Tuner / Kanalwähler / Sélecteur



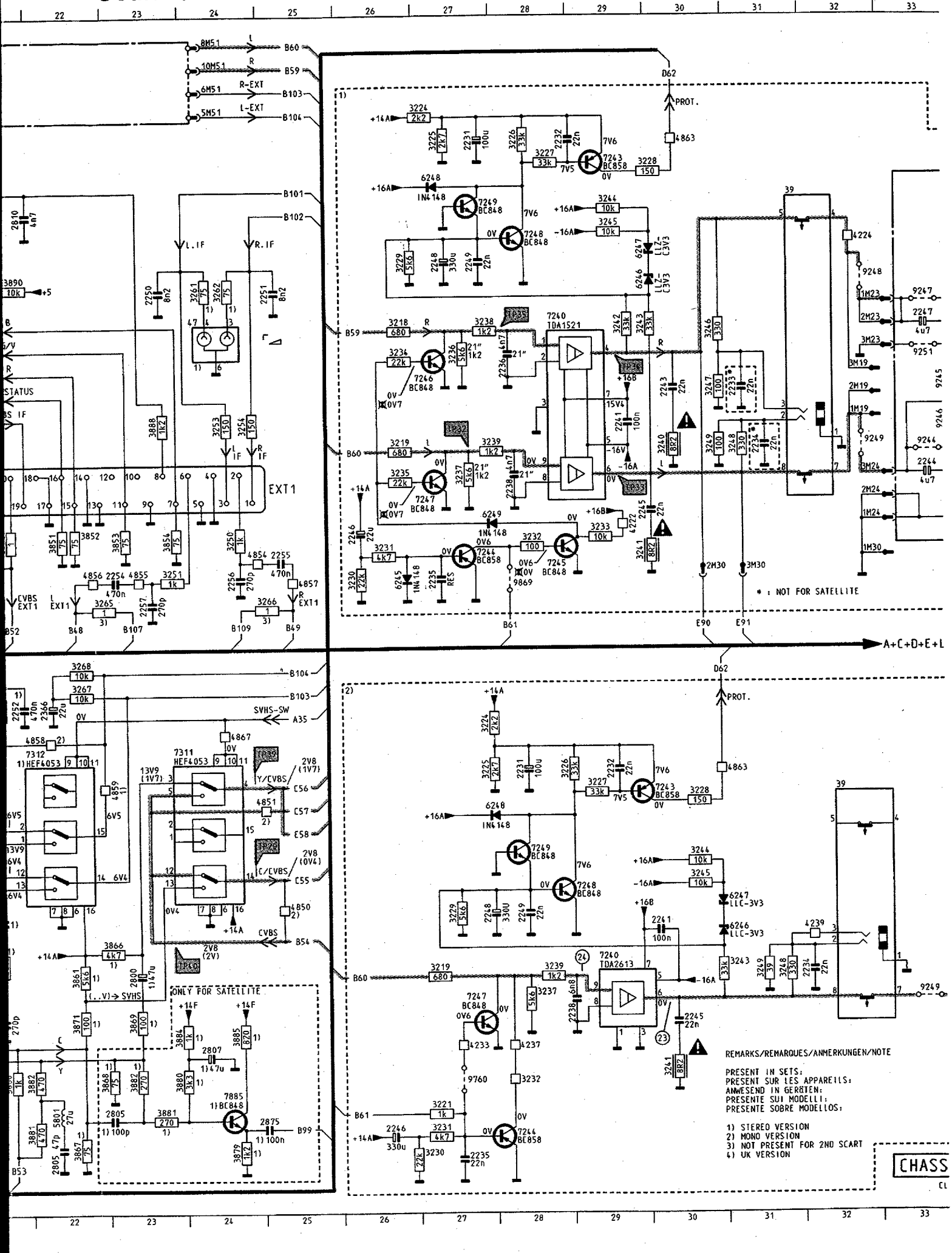
IF / ZF / FI

IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON MODULO IF/AUDIO MODULO SONIDO FI

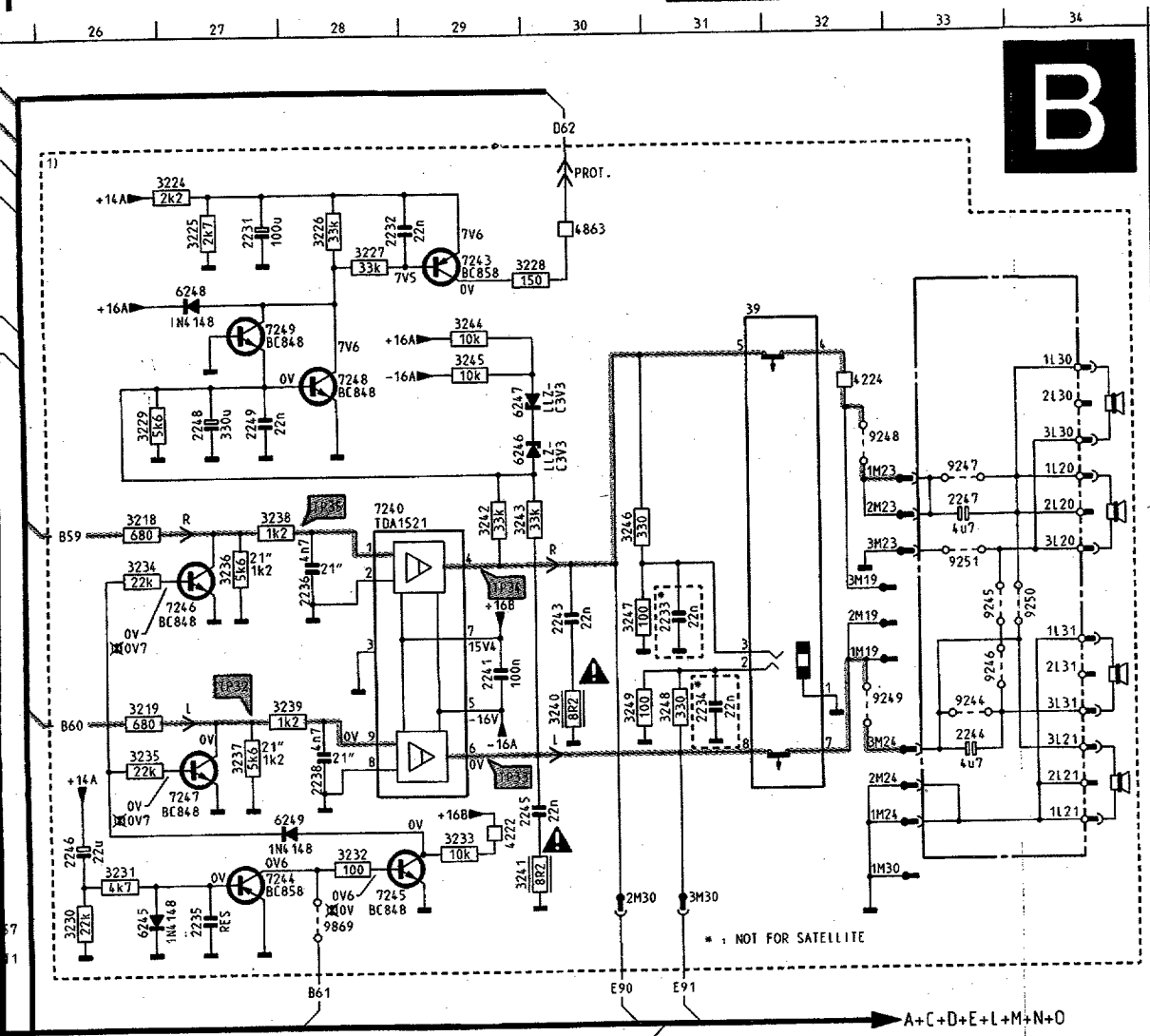
G: MONO
H: STEREO/ESTEREO
I: NICAM



Sound / Ton / Son



B



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1242	H 3	3230	D27	3888	F23
2001	K 1	3230	H26	3889	C21
2001	B 1	3231	O27	3890	D21
2002	F 2	3231	G26	39	C31
2003	G 4	3232	N28	39	J32
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2005	N 4	3234	E26	4224	C32
2008	G 4	3235	F26	4233	N27
2010	G 4	3236	E27	4237	N28
2231	J28	3237	M28	4239	L32
2231	B27	3237	F27	4312	B11
2232	J29	3238	D27	47	D24
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2237	B 4	3243	L31	4853	K20
2238	M29	3244	K30	4854	H18
2238	F28	3244	C29	4854	G24
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2240	B 4	3245	C29	4855	G23
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2242	I 4	3248	M31	4857	H25
2243	E30	3248	F31	4858	J22
2244	F33	3249	M31	4859	J23
2245	M30	3249	F30	4863	J31
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2246	O26	3251	G23	4867	J24
2246	G26	3253	F24	49	F21
2247	D33	3254	F24	5001	G 3
2248	L27	3255	L21	5240	A 3
2248	C27	3256	L21	5242	H 3
2249	L28	3257	I20	5800	E12
2249	C27	3258	I21	5801	N22
2250	D23	3259	I21	6245	H26
2251	D25	3260	I20	6246	L31
2252	I21	3261	D24	6246	D29
2254	G23	3262	D24	6247	L31
2255	G25	3263	J20	6247	C29
2256	H24	3264	L20	6248	B27
2257	H23	3265	H22	6248	J27
2262	M20	3266	H25	6249	G27
2263	M21	3267	I22	6800	F16
2264	L21	3268	I22	6801	H17
2265	L21	3386	C20	6802	H15
2366	I22	3800	G12	6803	I16
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2800	M23	3802	N15	7001	K 4
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2802	L13	3804	L12	7003	G 3
2803	L14	3805	L14	7240	L29
2804	G13	3806	L12	7240	D28
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2806	H13	3810	I17	7244	G27
2807	F17	3811	I17	7245	G28
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2810	L13	3815	F17	7248	L29
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2812	F16	3820	I12	7249	C27
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3003	F 3	3851	G22	9250	E34
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3007	K 5	3855	H21		
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3218	D26	3860	G21		
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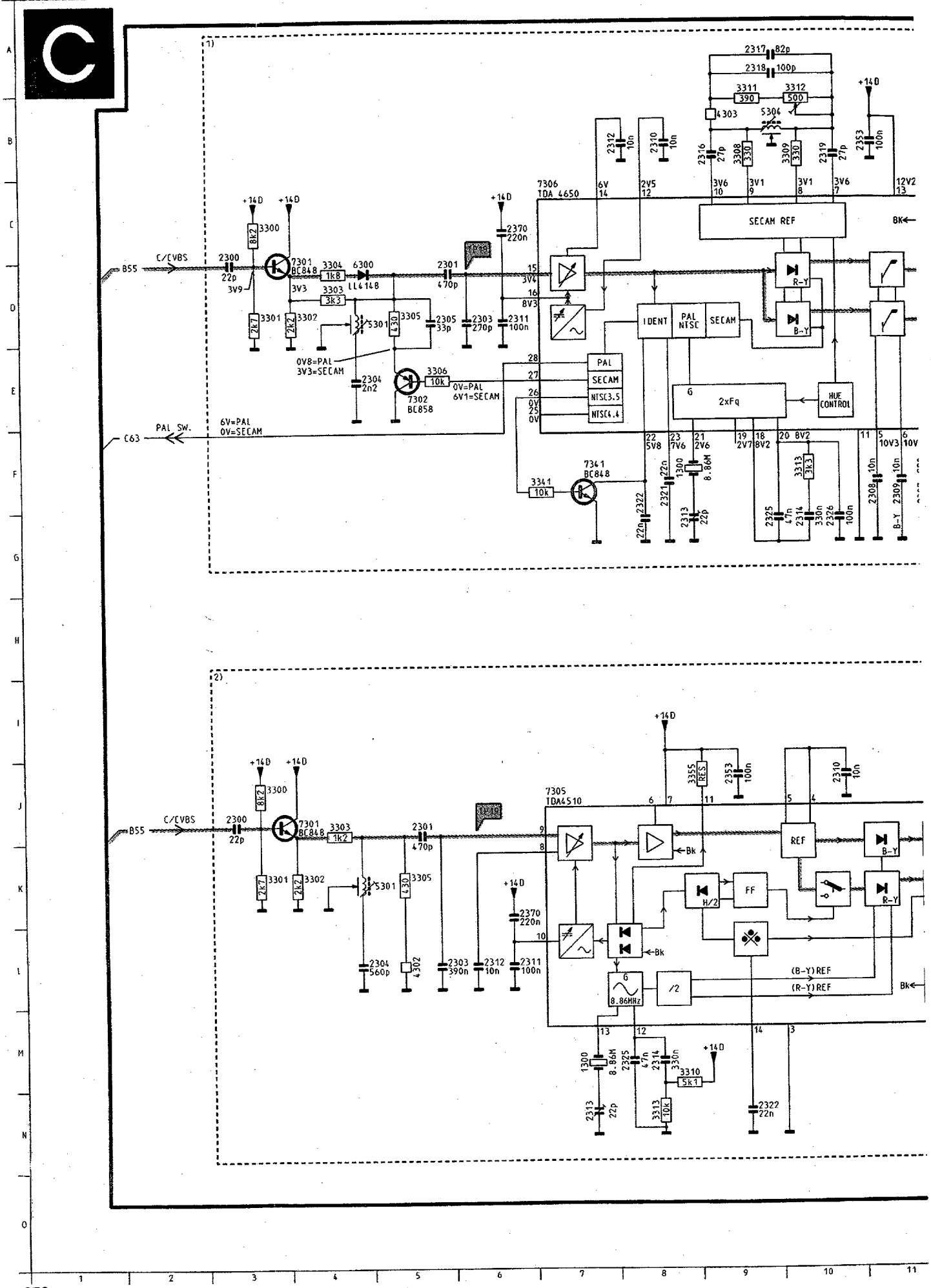
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2)
C/CVBS
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PAL SW.
C63
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7305 TDA4510
SECAM REF
IDENT
PAL NTSC
SECAM
PAL
SECAM
NTSC3.5
NTSC4.4
2xFq
HUE CONTROL
R-Y
B-Y
REF
FF
H/2
/2
8.86MHz
0V8=PAL
3V3=SECAM
0V=PAL
6V1=SECAM
6V=PAL
0V=SECAM
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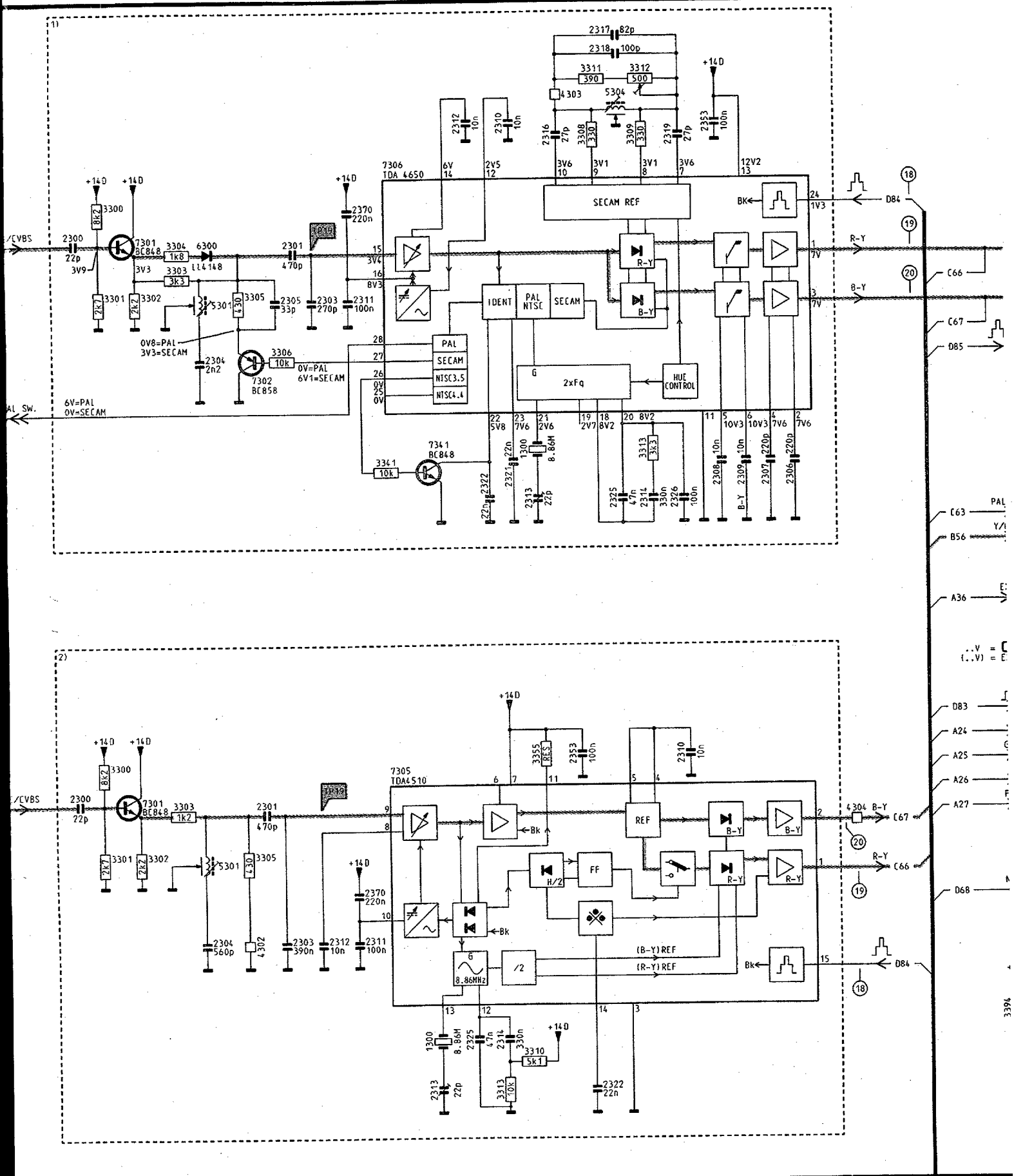
7302 BC858
7341 BC848
LL4148
5301
5304
+14D
Bk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B-Y
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NTSC4.4
/CVBS
AL SW.
6V=PAL
0V=SECAM
0V8=PAL
3V3=SECAM
0V=PAL
6V1=SECAM
7301 BC848
7302 BC858
7341 BC848
7305 TDA4510
REF
FF
H/2
/2
8.86MHz
(B-Y)REF
(R-Y)REF
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D83
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C63
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B56
A36
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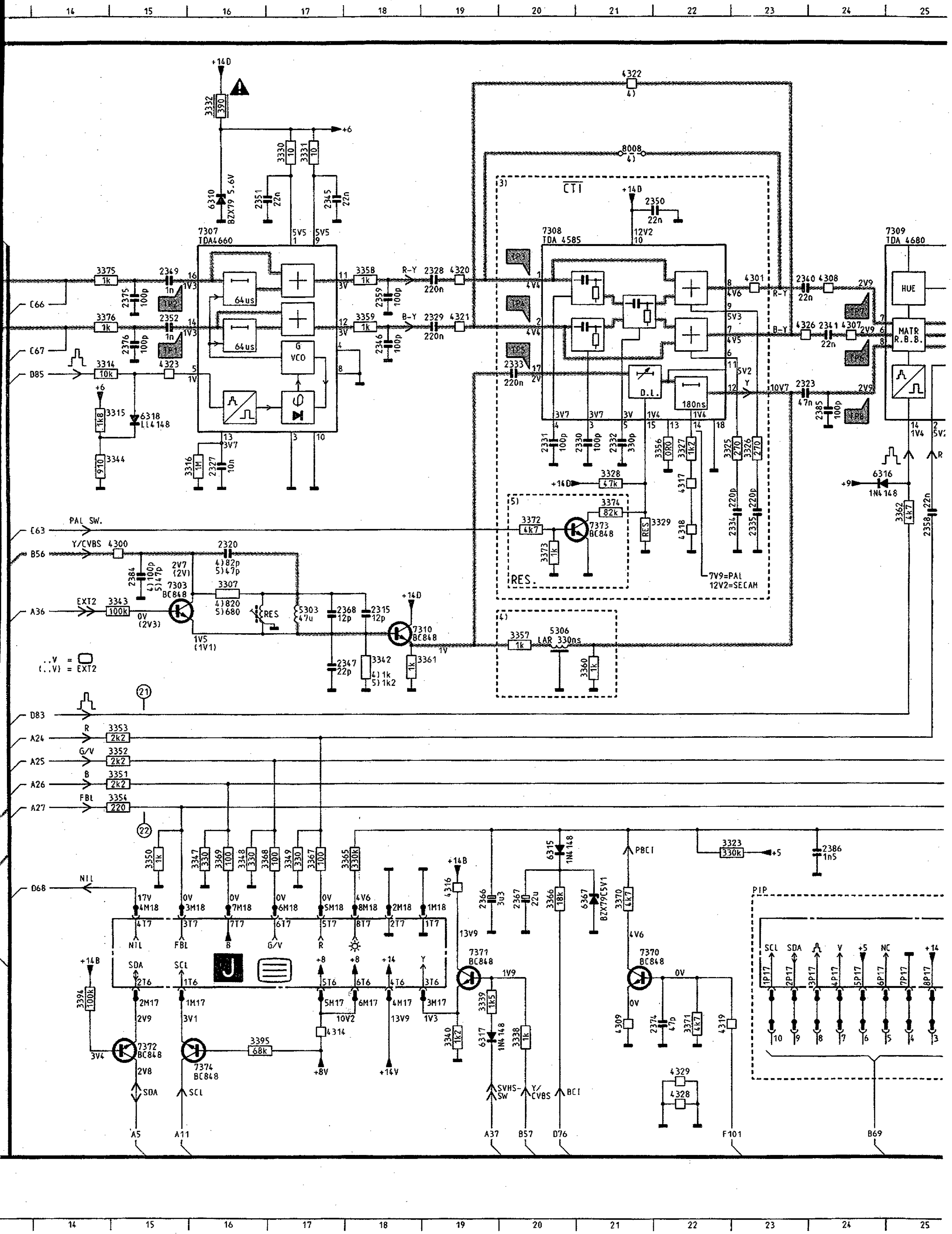
A27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TDA 4585
TDA 4680
CTI
RES.
PIP
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Y/CVBS
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SDA
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Y/CVBS
BCI
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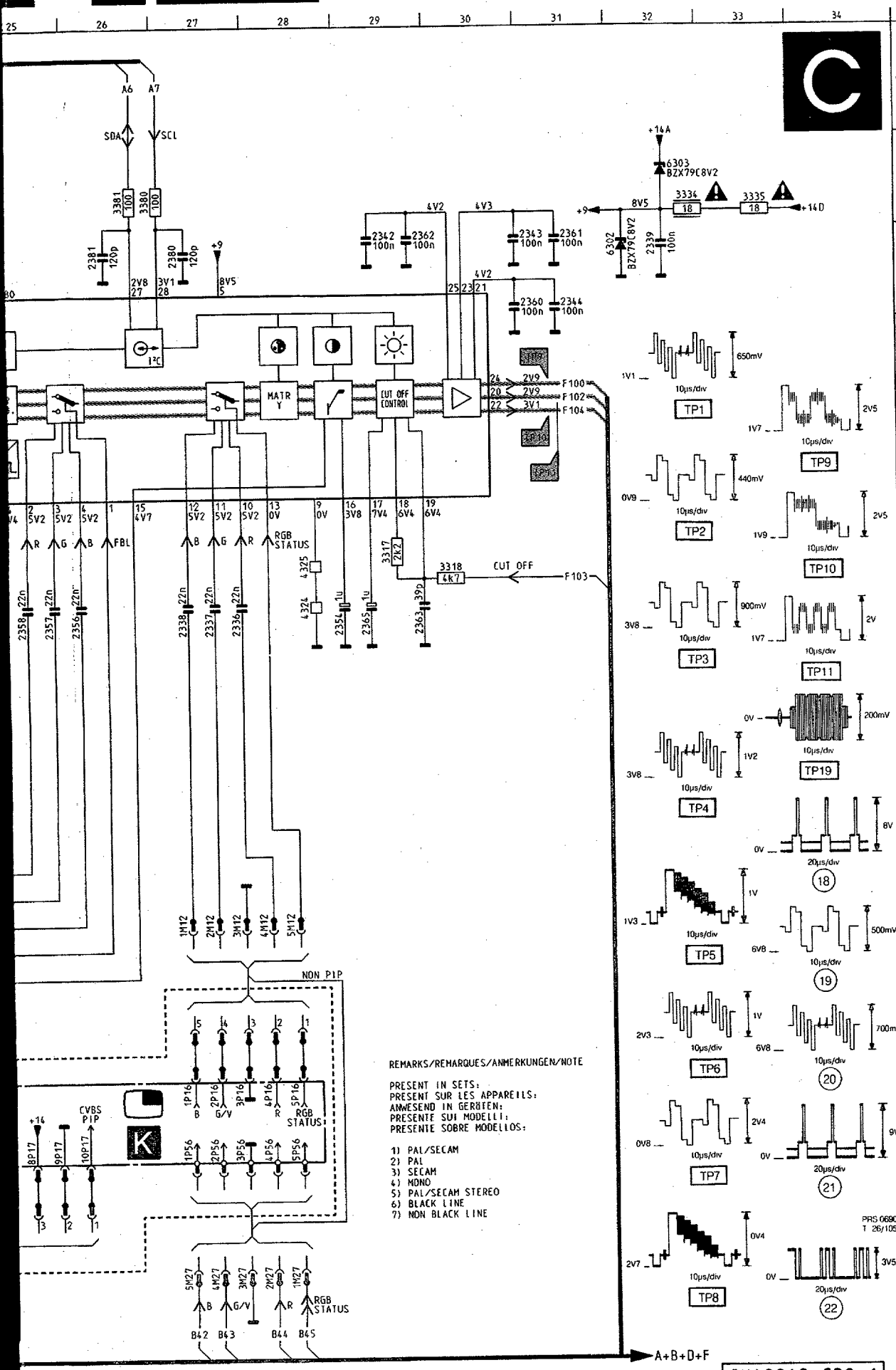

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2301	J 5	3332	A16	
2303	D 6	3334	B32	
2303	L 5	3335	B33	
2304	E 4	3338	M20	
2304	L 4	3339	M19	
2305	D 5	3340	M19	
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2311	D 6	3349	K17	
2311	L 6	3350	K15	
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2315	H18	3357	H20	
2316	B 9	3358	D18	
2317	A 9	3359	D18	D
2318	A 9	3360	I21	
2319	B10	3361	H18	
2320	G16	3362	G25	
2321	F 8	3365	K18	
2322	N 9	3366	L20	
2322	G 8	3367	K17	
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2325	G 9	3369	K16	E
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2329	D19	3374	G21	
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2337	G27	4301	D23	
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2342	E29	4309	M21	
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2344	C31	4316	K19	
2345	C17	4317	F22	
2346	D18	4318	G22	
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3315	E14			
3316	F16			
3317	F29			O
3318	F30			
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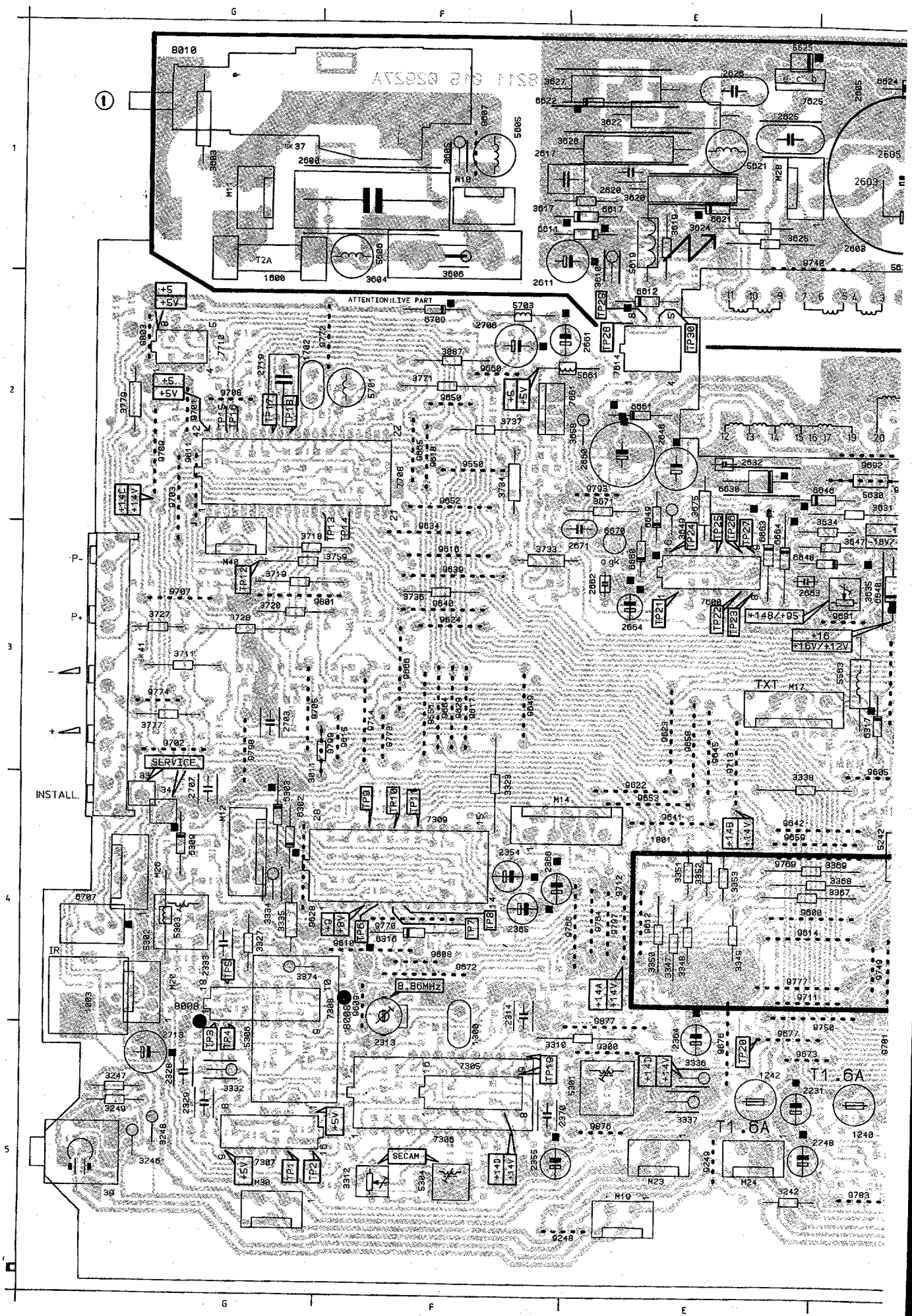
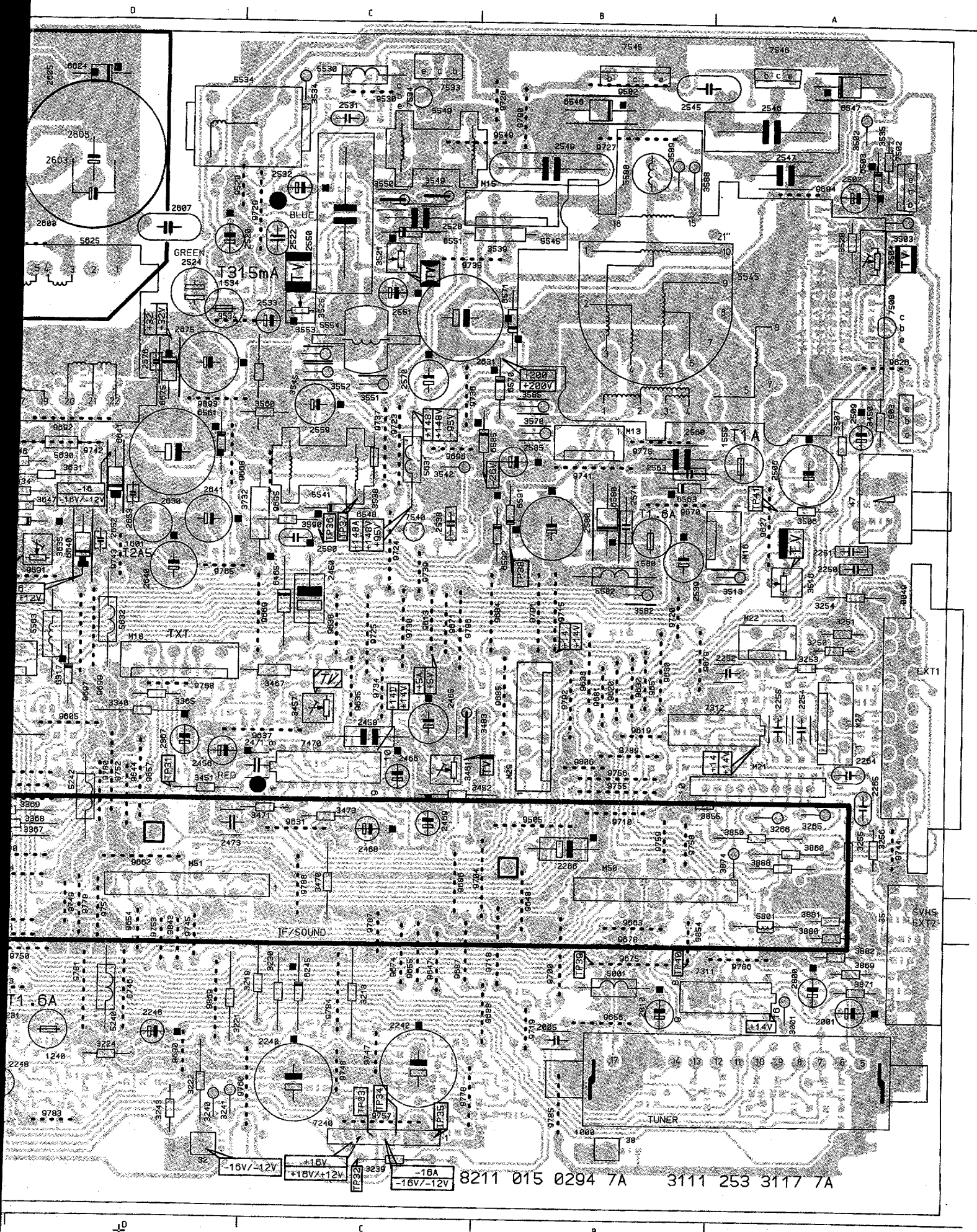
3326	F23			

Monocarrier / Hauptplatine / Châssis




BLUE
GREEN
RED
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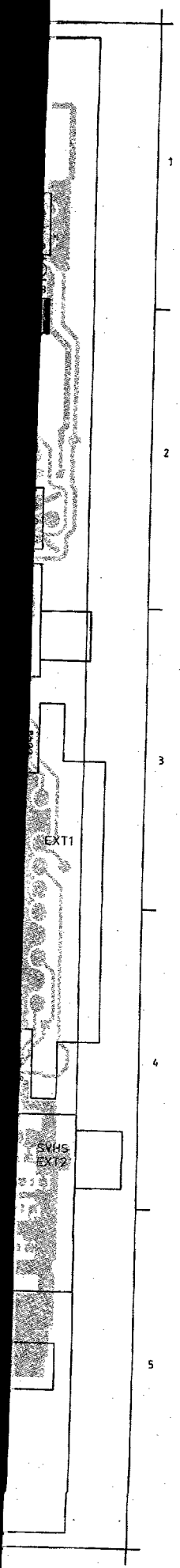
T1.6A
T2A
T1A
TXT
IF/SOUND
TUNER
EXT1
SVHS EXT2
-16V/-12V
+16V/+12V
-16A
-16V/-12V
8211 015 0294 7A
3111 253 3117 7A



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M12 G4
M13 B2
M14 E4
M15 B1
M16 A3
M17 D3
M18 C3
M19 E5
M20 G5
M21 A4
M22 A3
M23 E5
M24 E5
M26 G4
M27 A4
M28 D1
M29 B3
M30 F5
M40 G3
M50 B4
M51 D4
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0033 G4
0034 G4
0035 A5
0037 F1
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0039 G5
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1000 A5
1003 G5
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2246 D5
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2367 D4
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9877 E5

Power supply / Stromversorgung / Alimentatior

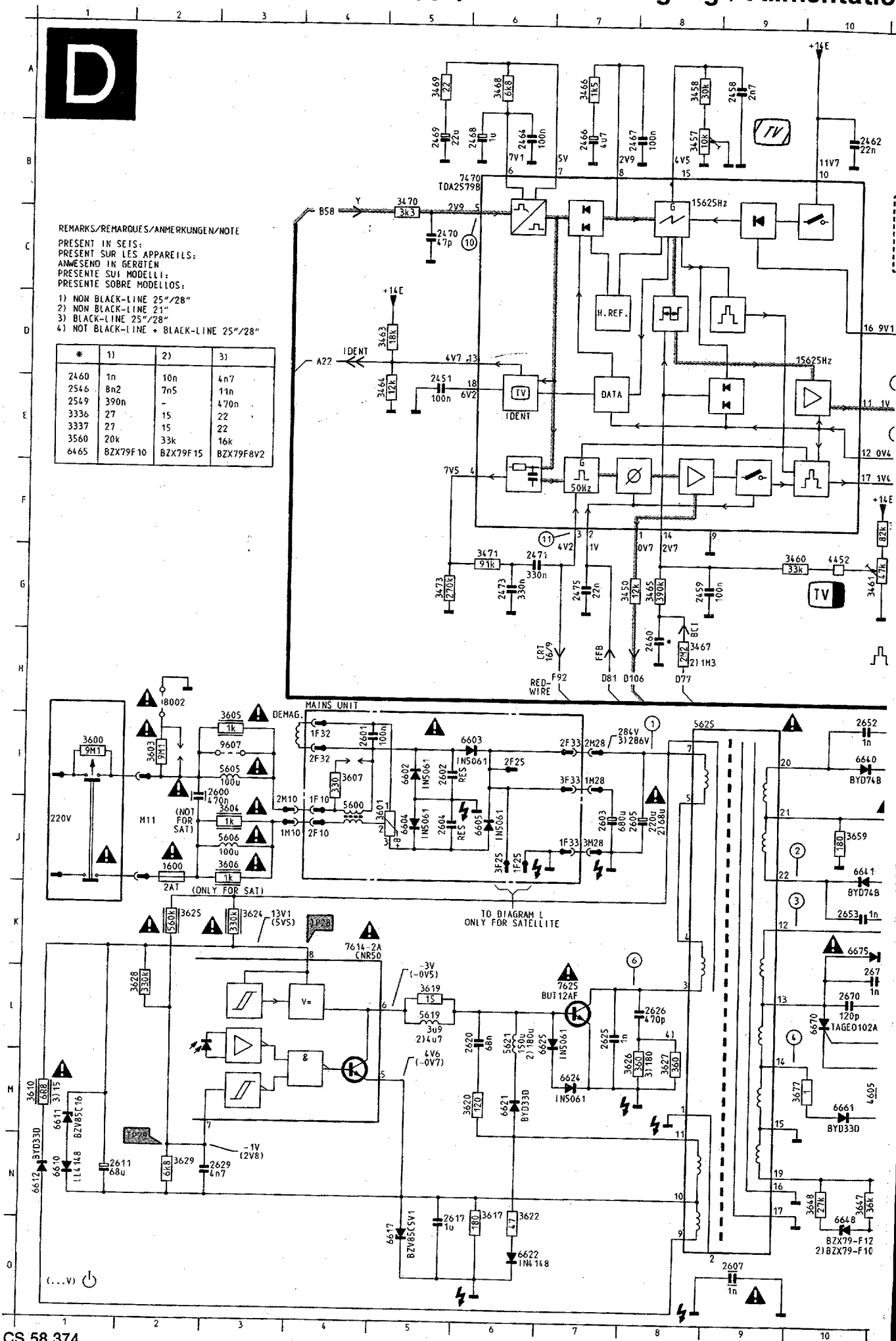
D

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) NON BLACK-LINE 25"/28"
2) NON BLACK-LINE 21"
3) BLACK-LINE 25"/28"
4) NOT BLACK-LINE + BLACK-LINE 25"/28"

*	1)	2)	3)
2460	1n	10n	4n7
2546	8n2	7n5	11n
2549	390n	-	470n
3336	27	15	22
3337	27	15	22
3560	20k	33k	16k
6465	BZX79F10	BZX79F15	BZX79F8V2



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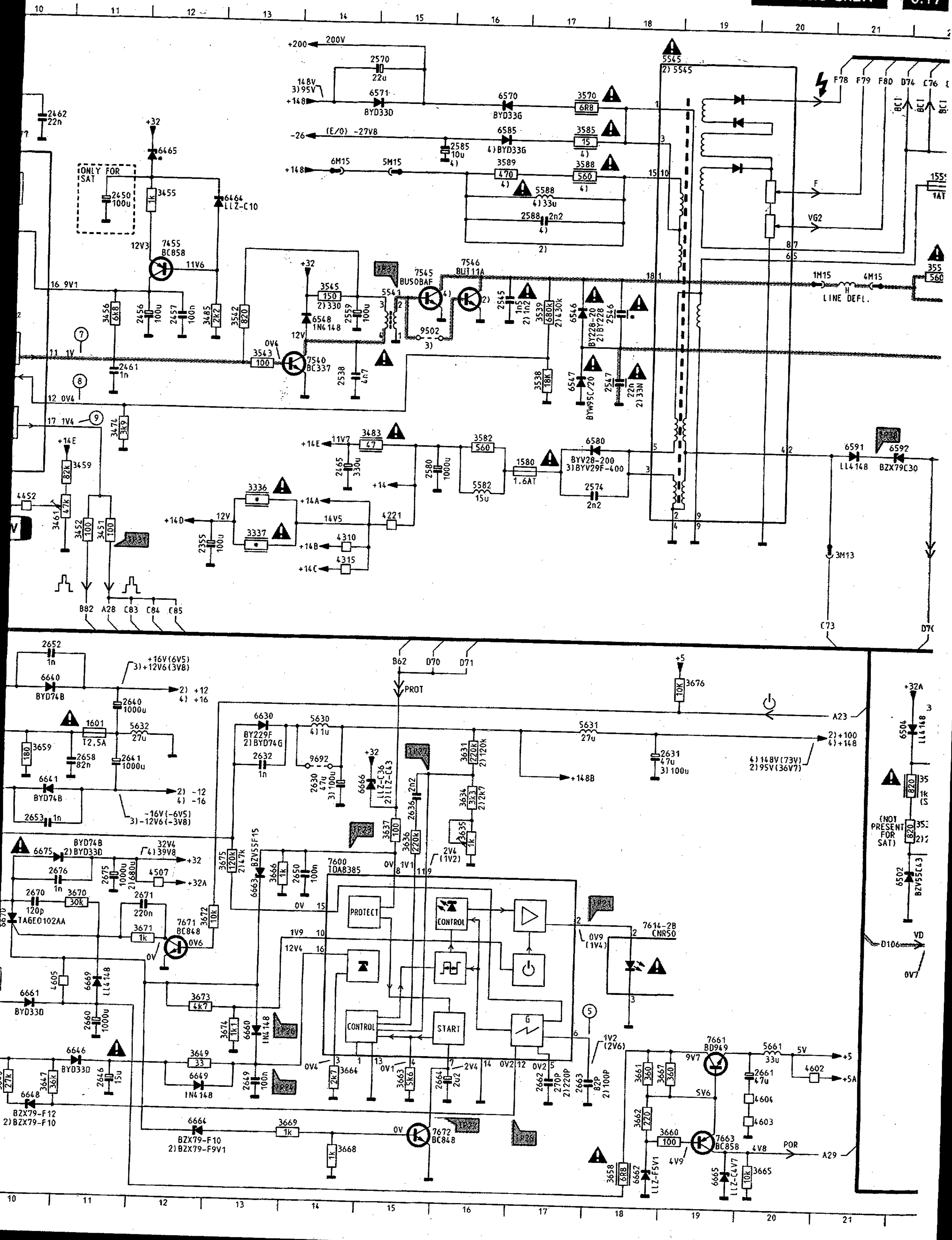
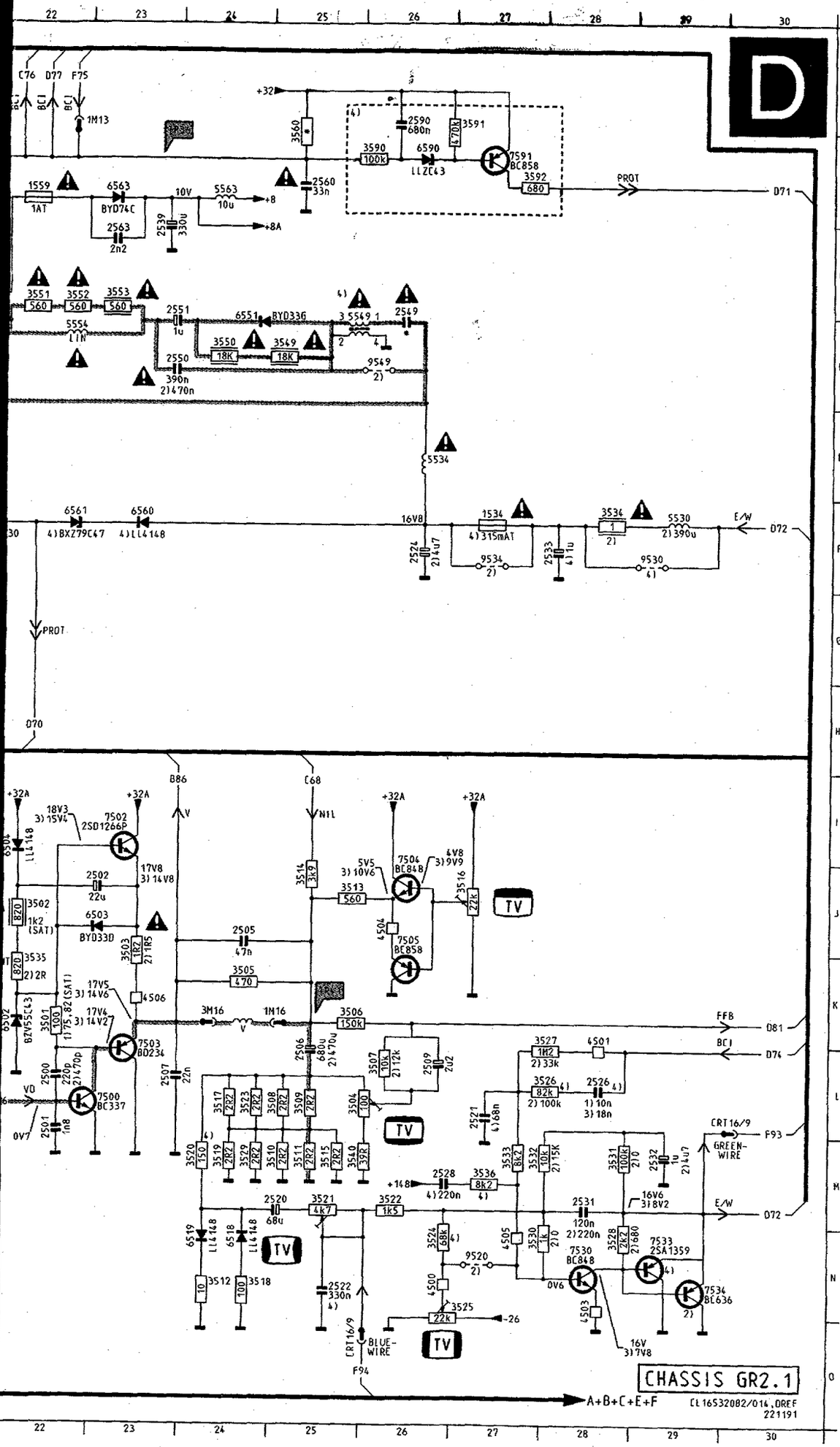


+200
200V
2570
22u
148V
3) 95V
+148
6571
BYD33D
6570
BYD33G
3570
6R8
5545
2) 5545
-26
(E/0) -27V8
2585
10u
6585
4) BYD33G
3585
15
3589
470
3588
560
6M15
5M15
5588
4) 33u
2588
2n2
F78
F79
F80
D74
C76
VG2
ONLY FOR SAT
2450
100u
3455
1k
6464
LLZ-C10
6465
+32
12V3
7455
BC858
11V6
16 9V1
3456
6k8
2456
100u
2457
100n
3485
2k2
3542
820
3545
150
2) 330
6548
1N4148
2559
100u
5541
7545
BU508AF
7546
BUT11A
9502
2545
1n5
2) 1n2
3539
680k
2) 430k
6546
BY228-20
2) BY228
2546
1M15
4M15
LINE DEFL.
11 1V
0V4
3543
100
7540
BC337
2538
4n7
2461
1n
12 0V4
3538
18K
6547
BYW95C/20
2547
22n
2) 33N
17 1V4
3474
3K9
+14E
3459
82k
3461
47k
4452
3452
100
3451
100
11V7
3483
47
2465
330u
3582
560
2580
1000u
5582
15u
1580
1.6AT
6580
BYV28-200
3) BYV29F-400
2574
2n2
6591
LL4148
6592
BZX79C30
3M13
+14
+14A
14V5
4221
3336
3337
+14D
12V
2355
100u
+14B
4310
+14C
4315
B82
A28
C83
C84
C85
C73
2652
1n
6640
BYD74B
+16V (6V5)
3) +12V6 (3V8)
2640
1000u
2) +12
4) +16
B62
D70
D71
PROT
+5
3676
10K
A23
1601
T2,5A
5632
27u
3659
180
2658
82n
2641
1000u
6641
BYD74B
2) -12
4) -16
-16V (-6V5)
3) -12V6 (-3V8)
2653
1n
6630
BY229F
2) BYD74G
5630
4) 1u
5631
27u
2) +100
4) +148
2632
1n
9692
2630
47u
3) 100u
6666
LLZ-C36
2) LLZ-C43
2636
2n2
3631
220k
2) 120k
3634
3k3
2) 2k7
3635
1k
2631
47u
3) 100u
+148B
4) 148V (73V)
2) 95V (36V7)
+32A
6504
LL4148
NOT PRESENT FOR SAT
820
6502
BZV55C43
6675
BYD74B
2) BYD33D
32V4
4) 39V8
+32
2676
1n
2675
1000u
2) 680u
4507
+32A
3675
120k
2) 47k
6663
BZV55F15
3666
1k
2650
100n
3637
100
3636
220k
2V4
(1V2)
7600
TDA8385
0V
1V1
PROTECT
CONTROL
START
2670
120p
3670
30K
2671
220n
6670
TAGE0102AA
3671
1k
7671
BC848
0V6
3672
10k
1V9
12V4
0V9
(1V4)
7614-2B
CNR50
D106
VD
0V7
4605
6669
LL4148
6661
BYD33D
2660
1000u
3673
4k7
3674
1k1
6660
1N4148
1V2
(2V6)
6646
BYD33D
2646
15u
3649
33
6649
1N4148
2649
100n
3664
2k7
3663
5k6
2664
2u2
2662
270P
2) 220P
2663
82P
2) 100P
6648
BZX79-F12
2) BZX79-F10
3647
36k
27k
6664
BZX79-F10
2) BZX79-F9V1
3669
1k
3668
1k
7672
BC848
7661
BD949
9V7
5661
33u
5V
+5
2661
47u
4602
+5A
3661
360
3667
360
5V6
4604
4603
3662
220
3660
100
7663
BC858
4V8
POR
A29
4V9
3658
6R8
6662
LLZ-F5V1
6665
LLZ-C4V7
3665
10k

Synchronization / Synchronisation



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	2457	D12	3509	L25	5563	B24
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B	2460	H 8	3512	N24	5600	J 4
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	2462	B10	3514	J25	5606	J 3
	2464	B 6	3515	M25	5619	L 5
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	2466	B 7	3517	L24	5625	I 8
	2467	B 7	3518	N24	5630	I14
	2468	B 6	3519	M24	5631	I17
C	2469	B 5	3520	M24	5632	J12
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	2500	L22	3525	N27	6503	J23
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	2502	J23	3527	K28	6518	N24
D	2505	J24	3528	N28	6519	N24
	2506	L25	3529	M24	6546	D17
	2507	L23	3530	N27	6547	E17
	2509	L26	3531	M28	6548	D14
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E	2524	F26	3535	K22	6563	B23
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F	2539	C23	3545	D14	6592	F21
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	2588	C17	3592	B27	6640	I10
H	2590	A26	3600	I 1	6641	J10
	2600	I 2	3601	J 5	6646	N11
	2601	I 4	3603	I 2	6648	N10
	2602	I 5	3604	J 3	6649	N12
	2603	J 7	3605	I 3	6660	M13
	2604	J 5	3606	J 3	6661	M10
	2605	J 8	3607	I 4	6662	O18
	2607	D 9	3610	M 1	6663	K13
I	2611	N 1	3617	N 6	6664	O12
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	2620	L 6	3620	M 6	6666	J15
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	2626	L 8	3624	K 3	6670	L10
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J	2631	J18	3627	M 8	7470	B 6
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	2636	J15	3629	N 2	7502	I23
	2640	I11	3631	J16	7503	L23
	2641	J11	3634	J16	7504	J26
	2646	N11	3635	K16	7505	J26
	2649	N13	3636	K15	7530	N28
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K	2652	I10	3647	N10	7534	N29
	2653	K10	3648	N10	7540	E14
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	2663	N17	3661	N18	7614	K 5
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	2675	K11	3665	O20	7663	O19
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	3450	G 7	3669	O14	9502	D15
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	3458	A 8	3675	K13	9692	J14
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N	3461	G10	4221	G15		
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	3467	H 8	4501	K28		
	3468	A 6	4503	N28		
	3469	A 5	4504	J26		
O	3470	B 5	4505	N27		
	3471	G 6	4506	K23		
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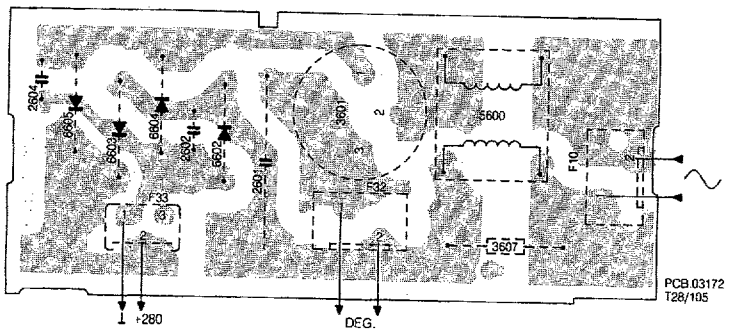
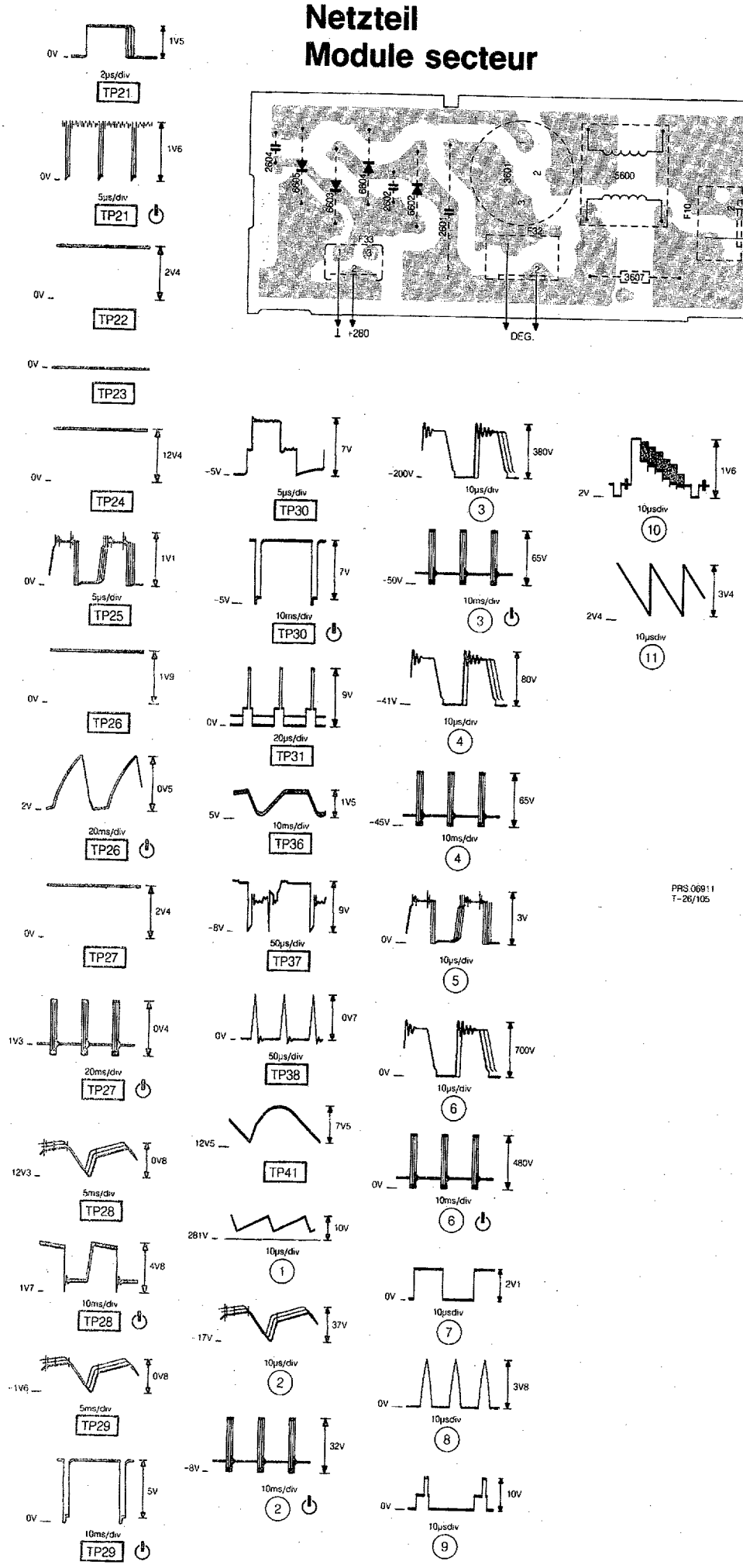
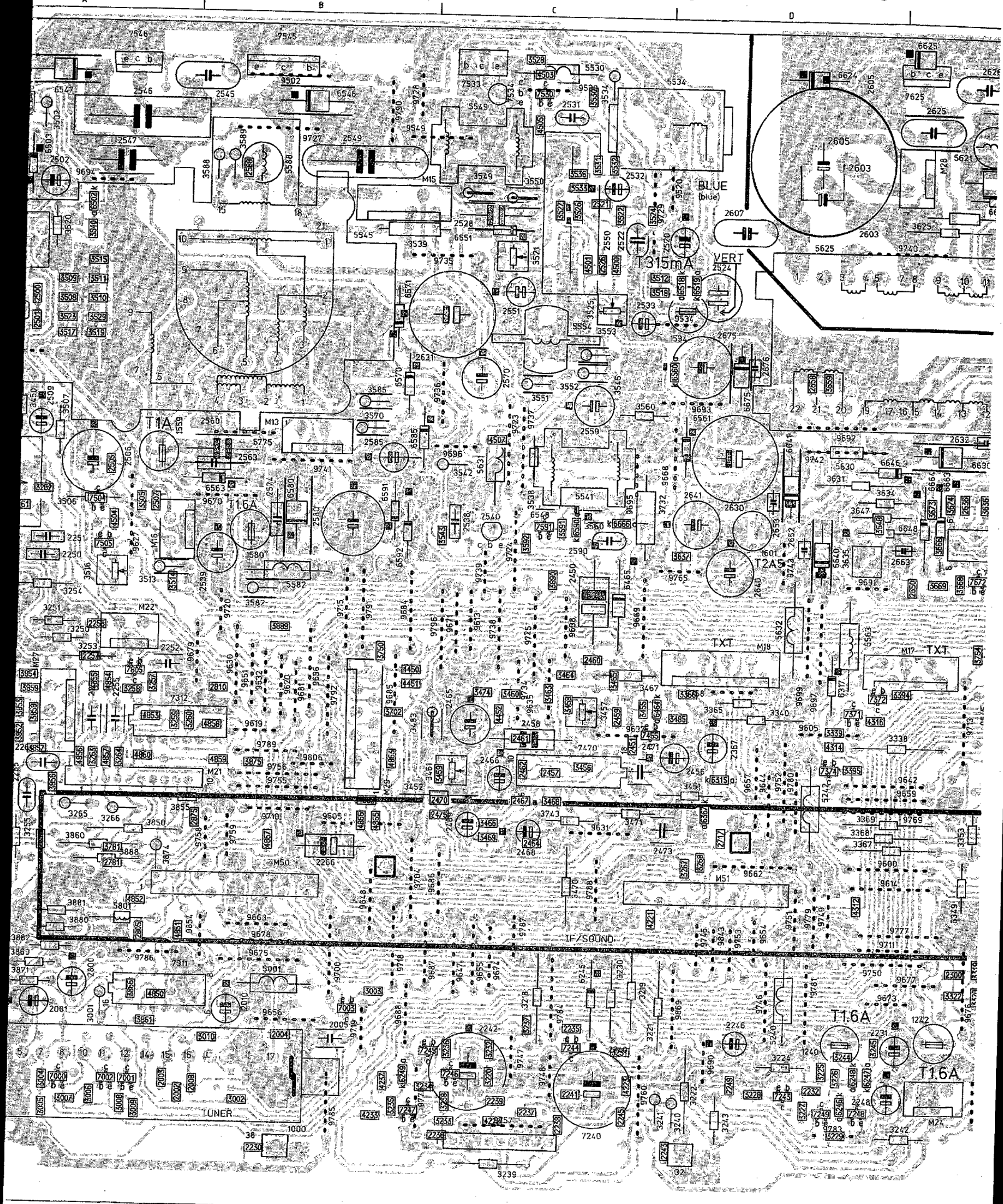
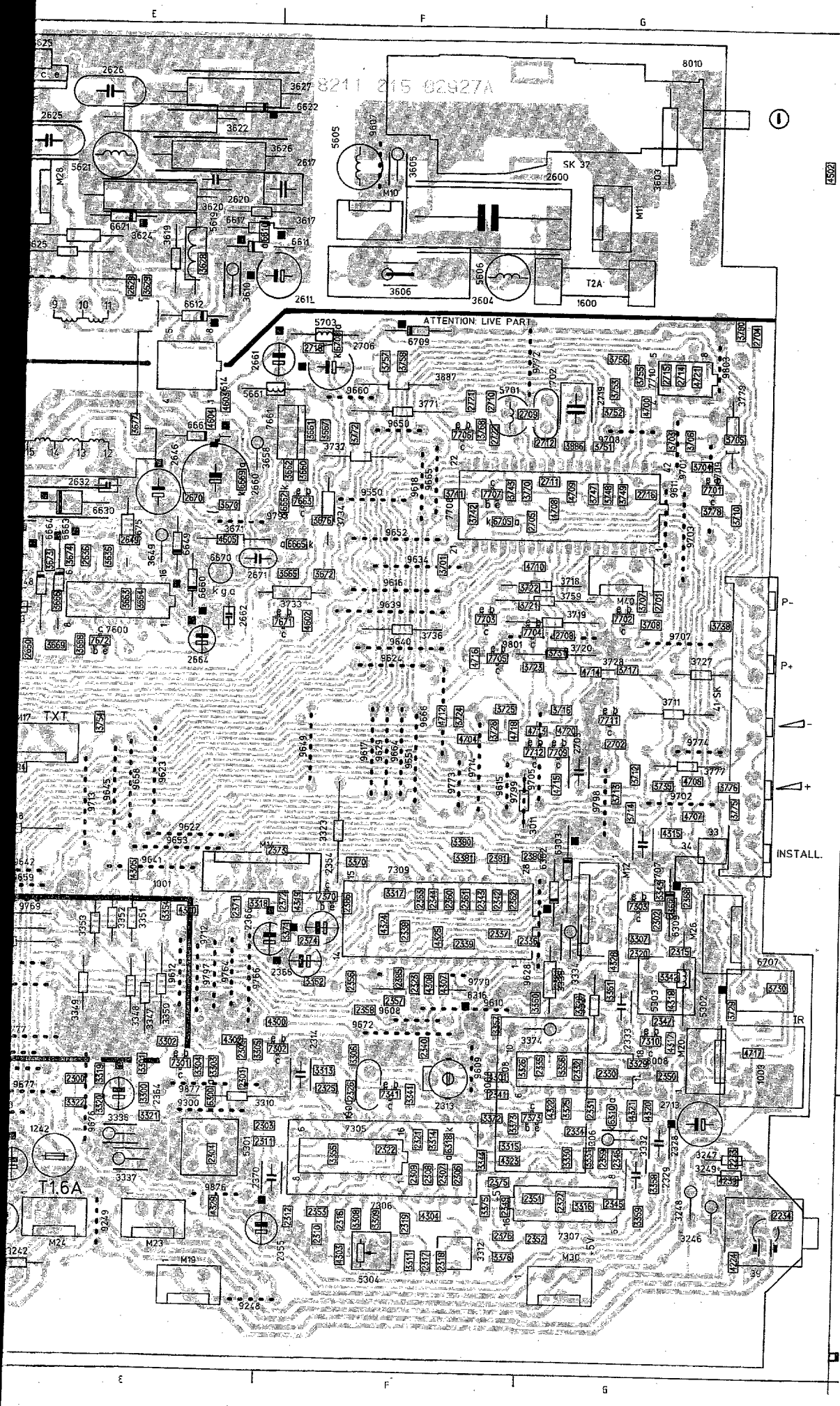
Mains module
Netzteil
Module secteur





Monocarrier / Hauptplatine / Châssis





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M40 G3	2368 G4	3003 B5	3374	
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0039 G5	2380 F4	3219 C5	3452	
0041 G3	2381 F4	3220 C5	3455	
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1240 D5	2451 C4	3226 D5	3460	
1242 E5	2456 C4	3227 D5	3461	2
1300 F5	2457 C4	3228 D5	3463	
1534 C2	2458 C4	3229 D5	3464	
1559 A2	2459 C4	3230 C5	3465	
1580 B3	2460 C3	3231 C5	3466	
1600 G2	2461 C4	3232 C5	3467	
1601 D3	2462 C4	3233 B5	3468	
1702 F2	2464 C4	3234 B5	3469	
2001 A5	2465 C4	3235 B5	3470	
2002 A5	2466 C4	3236 B5	3471	
2003 A5	2467 C4	3237 C5	3473	
2004 B5	2468 C4	3238 B5	3474	
2008 A5	2469 C4	3239 C5	3483	
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2233 G5	2475 B4	3243 D5	3503	
2234 G5	2500 A2	3244 D5	3504	
2235 C5	2501 A2	3245 D5	3505	
2236 B5	2502 A1	3246 G5	3506	
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2246 D5	2526 C2	3256 A4	3515	
2248 D5	2528 C1	3257 A3	3516	
2249 D5	2531 C1	3258 A3	3517	
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2251 A3	2533 C2	3260 A4	3519	
2252 A3	2538 B3	3261 A3	3520	
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2255 A4	2545 A1	3263 A4	3522	
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2311 E5	2611 E2	3313 F5	3543	
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2313 F5	2620 E1	3315 F5	3549	
2314 E5	2625 D1	3316 G5	3550	
2315 G4	2626 E1	3317 F4	3551	
2316 F5	2629 E2	3318 E4	3552	
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2320 G4	2636 E3	3322 E5	3582	
2321 F5	2640 D3	3323 F4	3585	
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2323 F4	2646 E2	3326 F5	3589	
2325 F5	2649 E3	3327 G4	3590	
2326 F5	2650 D3	3328 G4	3591	
2327 F5	2652 D3	3329 G5	3592	
2328 G5	2653 D3	3330 G5	3603	
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2331 G5	2661 E2	3334 G4	3606	
2332 G5	2662 E3	3335 F4	3610	
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2338 F4	2676 D2	3341 F5	3625	
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2340 F4	2702 G3	3343 G4	3627	
2341 F5	2703 G3	3344 F5	3628	
2342 F4	2704 G2	3347 E4	3629	
2343 F4	2705 F2	3348 E4	3631	
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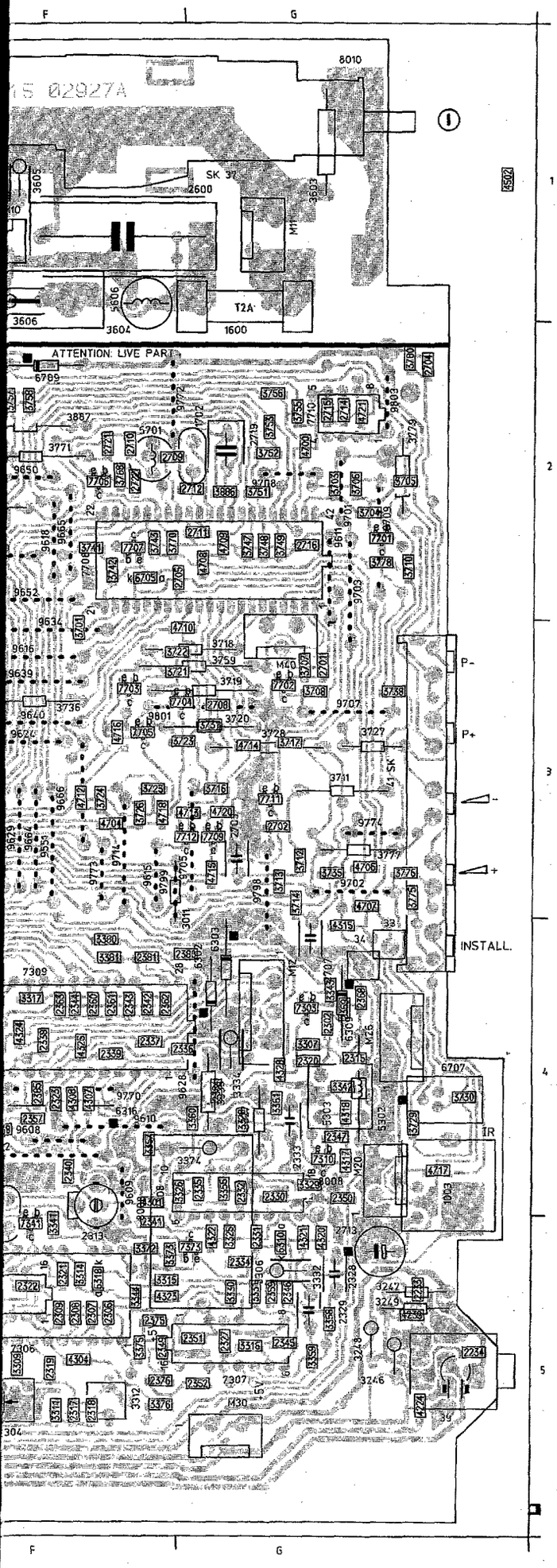
2345 G5	2707 G4	3350 E4	3635	
2346 G5	2708 F3	3351 E4	3636	



CHASSIS GR2.1 — 6.21 — 6.22 — CHASSIS GR2.1

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M11 G1	2349 F5	2710 F2	3353 E4	3647 D3	4305 E4	6571 B2	9623 E3	9774 G3
M12 G4	2350 G5	2711 F2	3354 E4	3648 D3	4307 F4	6580 B3	9624 F3	9775 B2
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M14 E4	2352 F5	2713 G5	3356 F5	3658 E2	4310 E4	6590 C3	9627 A3	9778 B5
M15 B1	2353 F5	2714 G2	3357 F4	3659 D2	4312 D4	6591 B3	9628 F4	9779 D4
M16 A3	2354 F4	2715 G2	3358 G5	3660 E2	4314 D4	6592 B3	9629 F3	9780 D4
M17 D3	2355 E5	2716 G2	3359 G5	3661 E2	4315 G4	6610 E1	9630 B3	9781 D5
M18 C3	2356 F4	2717 D4	3360 F4	3662 E2	4316 D4	6611 E1	9631 C4	9783 D5
M19 E5	2357 F4	2718 E2	3361 G4	3663 E3	4317 G4	6612 E2	9632 B3	9784 C5
M20 G5	2358 F4	2719 G2	3362 F4	3664 E3	4318 G4	6617 E1	9634 F3	9785 B5
M21 A4	2359 G5	2721 F2	3365 D3	3665 E3	4319 E4	6621 E1	9635 C3	9786 A5
M22 A3	2360 F4	2722 F2	3366 C3	3666 E3	4320 G5	6622 E1	9636 B3	9787 C4
1 M23 E5	2361 F4	2781 A4	3367 D4	3667 F2	4321 G5	6624 D1	9637 C4	9788 C4
M24 E5	2362 F4	2800 A5	3368 D4	3668 E3	4322 F5	6625 D1	9638 C3	9789 B4
M26 G4	2363 F4	2805 A4	3369 D4	3669 E3	4323 F5	6630 E2	9639 F3	9790 B1
M27 A4	2364 E5	2810 A3	3370 F4	3670 E2	4324 F4	6640 D3	9640 F3	9791 B3
M28 D1	2365 F4	2875 A4	3371 E4	3671 E3	4325 F4	6641 D3	9641 E4	9792 B3
M29 B3	2366 E4	3001 A5	3372 F5	3672 F3	4328 G4	6646 D2	9642 D4	9793 E2
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M40 G3	2368 G4	3003 B5	3374 F4	3674 E3	4450 B3	6649 E3	9645 E3	9797 E4
M50 B4	2369 G4	3004 A5	3375 F5	3675 E3	4451 B3	6660 E3	9646 B5	9798 G4
M51 D4	2370 E5	3005 A5	3376 F5	3676 F2	4452 C4	6661 E2	9647 B5	9799 F3
0032 C5	2371 E4	3006 A5	3380 F4	3677 E2	4500 C2	6662 E2	9648 B4	9801 F3
0033 G4	2372 E4	3007 A5	3381 F4	3701 F3	4501 C2	6663 E3	9649 F3	9803 G2
0034 G4	2373 E4	3008 A5	3394 D3	3702 B4	4502 G1	6664 D3	9650 F2	9806 B4
0035 A5	2374 F4	3009 A5	3395 D4	3703 G2	4503 C1	6665 E3	9651 B3	9843 D5
0037 F1	2375 F5	3010 A5	3450 A2	3704 G2	4504 A3	6666 C3	9652 F3	9854 A4
0038 B5	2376 F5	3218 C5	3451 C4	3705 G2	4505 C1	6669 E2	9653 E4	9869 C5
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2002 A5	2466 C4	3236 B5	3471 C4	3724 F3	4715 F3	7248 D5	9672 F4	
2003 A5	2467 C4	3237 C5	3473 C4	3725 F3	4716 F3	7249 D5	9673 D5	
2004 B5	2468 C4	3238 B5	3474 C3	3726 F3	4717 G4	7301 E5	9674 C5	
2008 A5	2469 C4	3239 C5	3483 B4	3727 G3	4718 F3	7302 E4	9675 B5	
2230 B5	2470 B4	3240 C5	3485 C4	3728 G3	4720 F3	7303 G4	9676 E5	
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2237 C5	2505 A3	3247 G5	3507 A2	3735 G3	4855 A3	7311 A5	9686 B4	
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Bildröhren Modul 25"/28" (16/9) /
Module support tube image 25"/28" (16/19)

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C 15	B4	2441	A3	3334	B3	3372	C3	3415	A4	3448	A2	7302	B3	7421	A4
C 19	A1	3001	B4	3338	A3	3373	C2	3421	A4	4000	B4	7303	B3	7430	A4
C 20	B4	3302	B2	3339	A3	3374	C1	3422	A4	4002	A4	7304	B3	7431	A2
C 21	B1	3303	C3	3340	B3	3375	C3	3423	A3	4003	A2	7305	B2	7432	A2
C 22	C1	3304	B3	3341	B3	3376	C3	3431	A1	4005	A3	7331	A3	7434	A2
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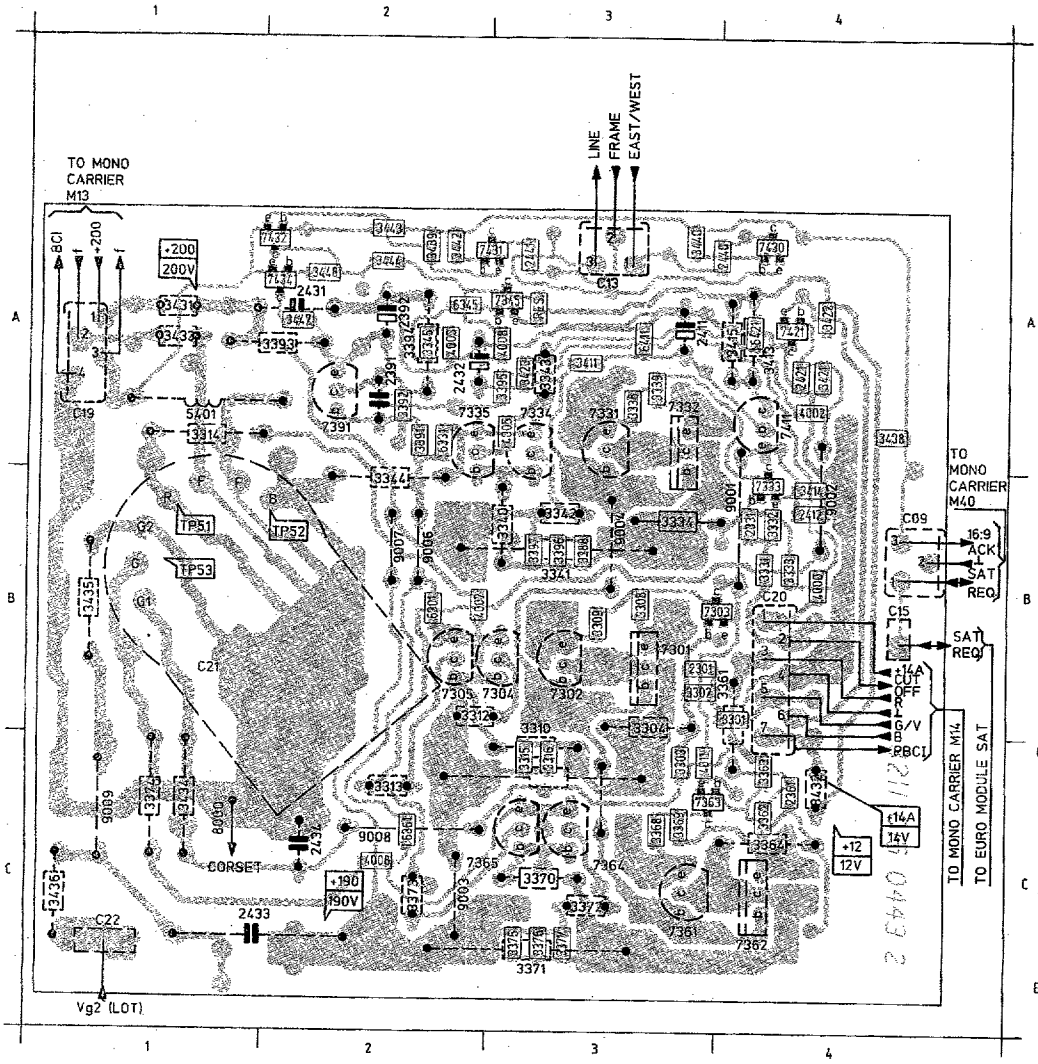
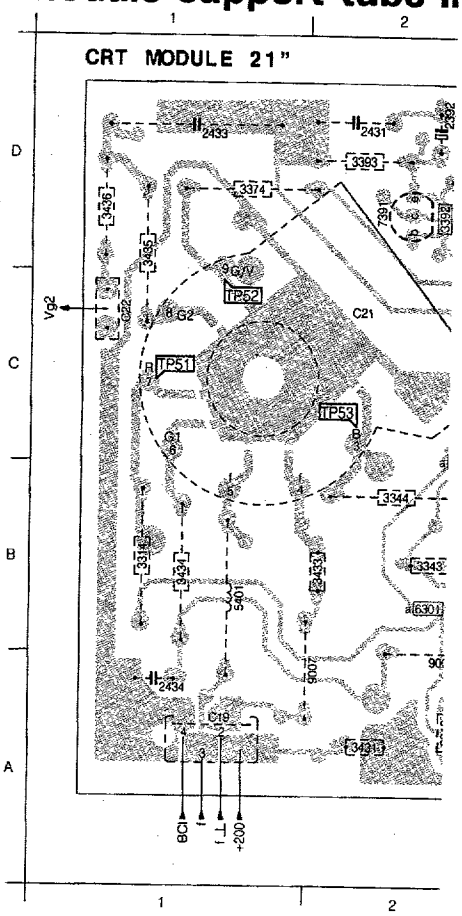
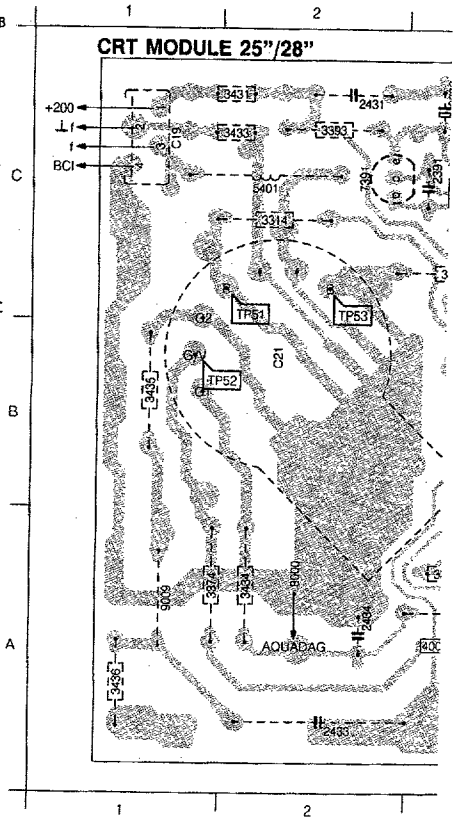
2411	A3	3312	B2	3361	B4	3393	A1	3436	C1	5401	A1	7345	A3	9003	C2
2412	B4	3313	C2	3362	C4	3394	A2	3438	A4	6301	B2	7361	C3	9004	B3
2421	A4	3314	A1	3363	C4	3395	A3	3439	A2	6331	A2	7362	C4	9006	B2
2431	A2	23315	C3	3364	C4	3396	B3	3440	A3	6345	A2	7363	C3	9007	B2
2432	A2	3316	C3	3368	C3	3397	B3	3442	A2	6361	C2	7364	C3	9008	C2
2433	C1	3331	B4	3369	C3	3411	A3	3443	A2	6411	A3	7365	C3	9009	C1



Picture tube module 2
Module support tube i

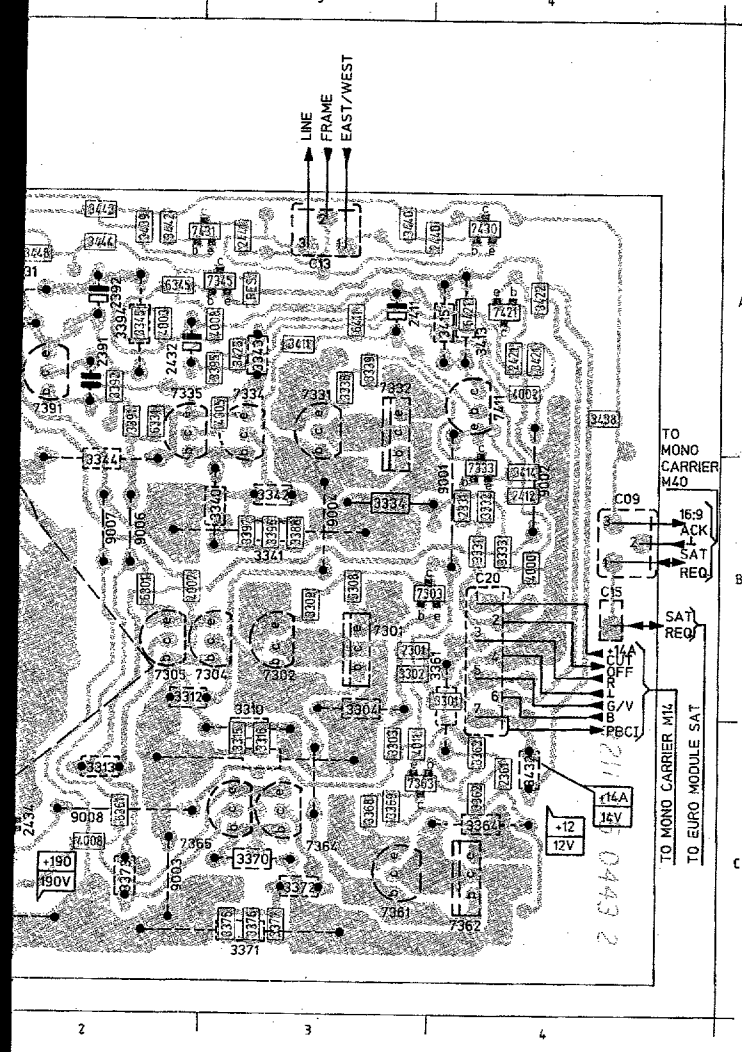


Picture tube module 2
Module support tube i

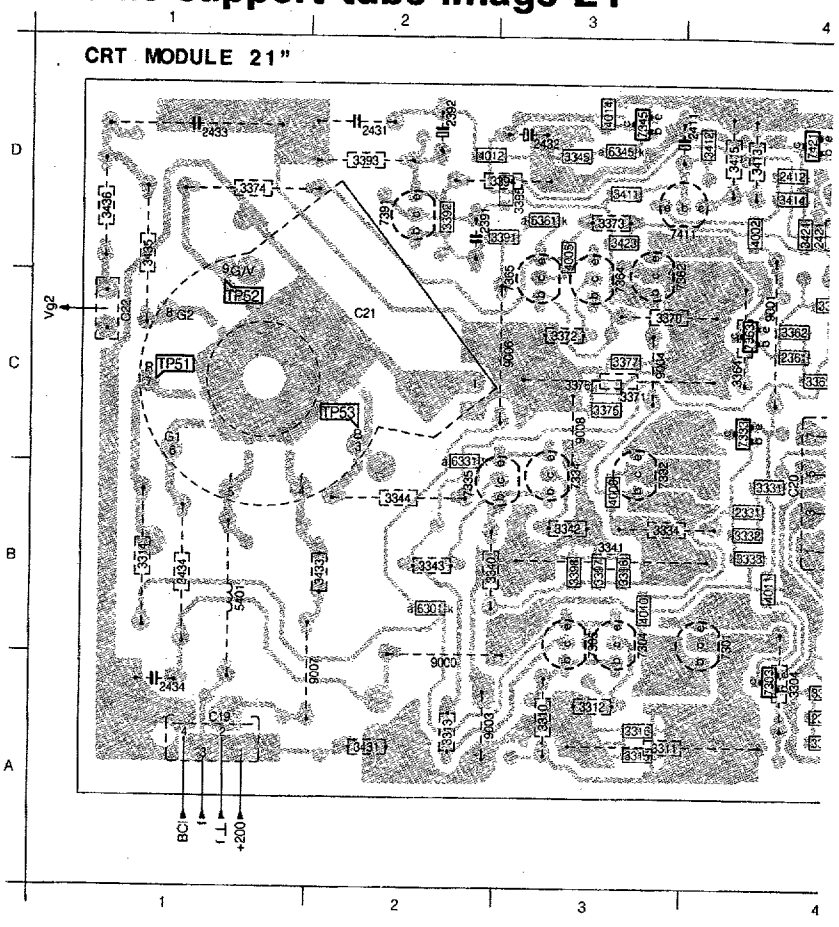


dule 25"/28" (16/9)
l 25"/28" (16/9) /
tube image 25"/28" (16/19)

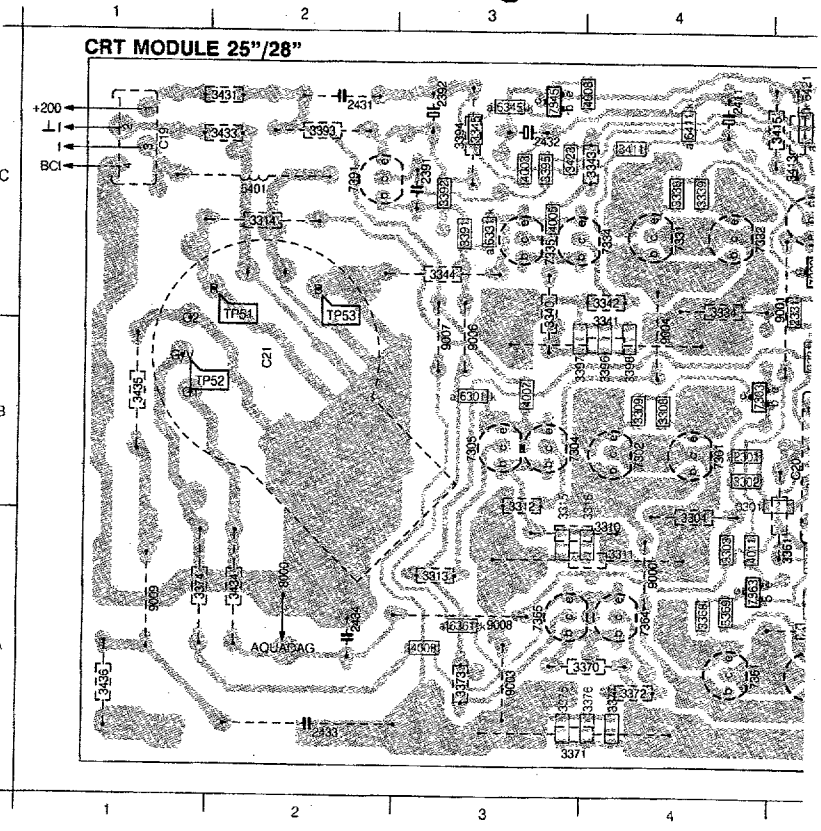
70	C3	3413	A4	3444	A2	6421	A4	7391	A2
71	C3	3414	B4	3447	A2	7301	B3	7411	A4
72	C3	3415	A4	3448	A2	7302	B3	7421	A4
73	C2	3421	A4	4000	B4	7303	B3	7430	A4
74	C1	3422	A4	4002	A4	7304	B3	7431	A2
75	C3	3423	A3	4003	A2	7305	B2	7432	A2
76	C3	3431	A1	4005	A3	7331	A3	7434	A2
77	C3	3432	C4	4007	B2	7332	A3	8000	C1
88	B3	3433	A1	4008	C2	7333	B4	9000	C3
91	A2	3434	C1	4008	A3	7334	A3	9001	B4
92	A2	3435	B1	4011	C3	7335	A2	9002	B4
93	A1	3436	C1	5401	A1	7345	A3	9003	C2
94	A2	3438	A4	6301	B2	7361	C3	9004	B3
95	A3	3439	A2	6331	A2	7362	C4	9006	B2
96	B3	3440	A3	6345	A2	7363	C3	9007	B2
97	B3	3442	A2	6361	C2	7364	C3	9008	C2
11	A3	3443	A2	6411	A3	7365	C3	9009	C1



Picture tube module 21" / Bildröhren Mod
Module support tube image 21"

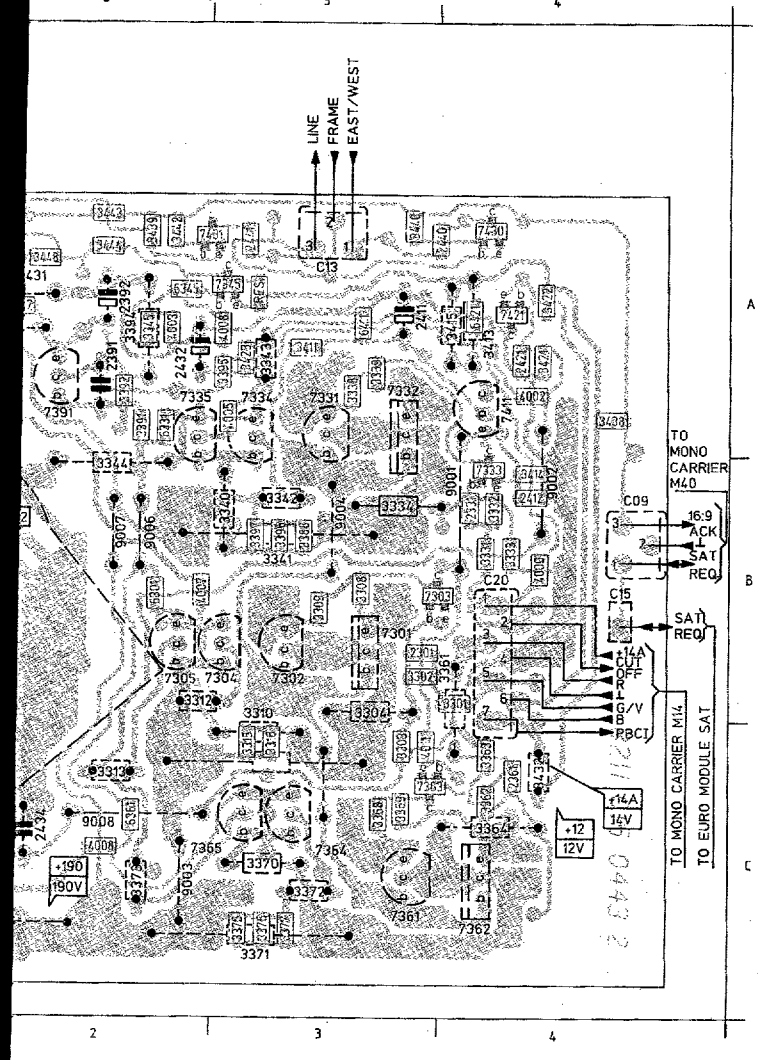


Picture tube module 25"/28" / Bildröhren
Module support tube image 25"/28"

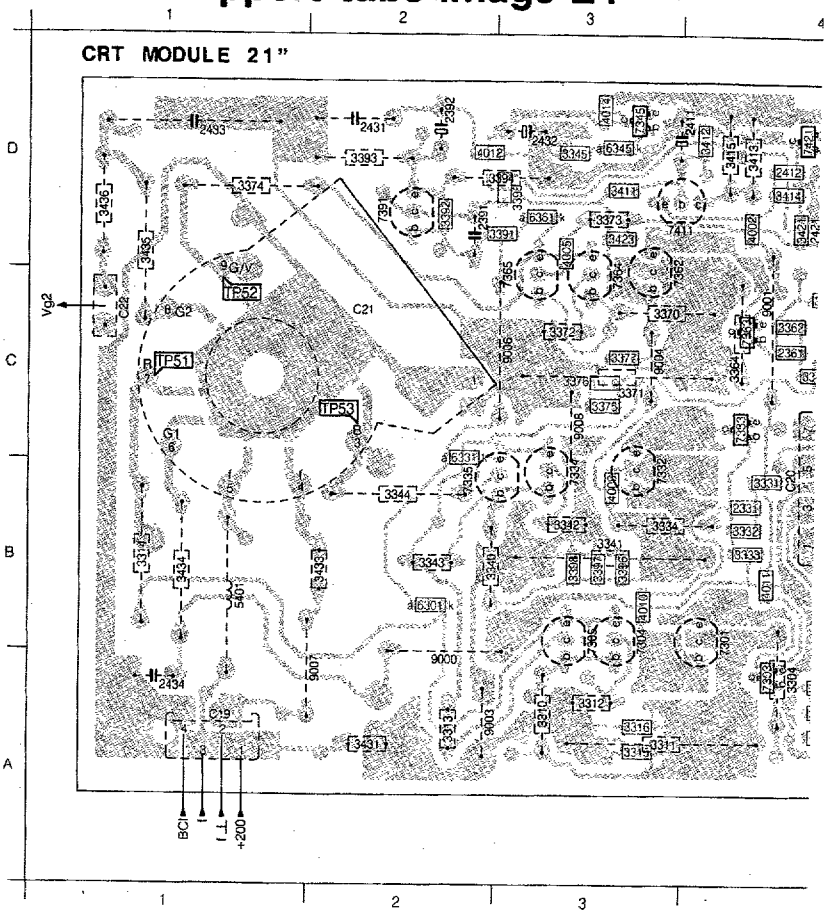


dule 25"/28" (16/9)
l 25"/28" (16/9) /
tube image 25"/28" (16/19)

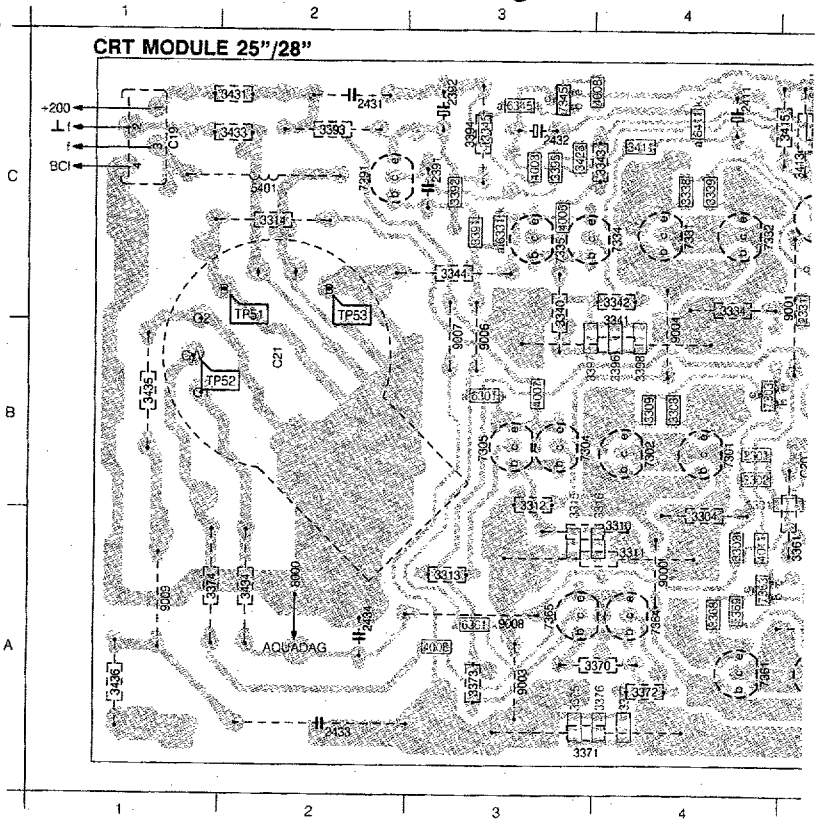
370	C3	3413	A4	3444	A2	6421	A4	7391	A2
371	C3	3414	B4	3447	A2	7301	B3	7411	A4
372	C3	3415	A4	3448	A2	7302	B3	7421	A4
373	C2	3421	A4	4000	B4	7303	B3	7430	A4
374	C1	3422	A4	4002	A4	7304	B3	7431	A2
375	C3	3423	A3	4003	A2	7305	B2	7432	A2
376	C3	3431	A1	4005	A3	7331	A3	7434	A2
377	C3	3432	C4	4007	B2	7332	A3	8000	C1
388	B3	3433	A1	4008	C2	7333	B4	9000	C3
391	A2	3434	C1	4008	A3	7334	A3	9001	B4
392	A2	3435	B1	4011	C3	7335	A2	9002	B4
393	A1	3436	C1	5401	A1	7345	A3	9003	C2
394	A2	3438	A4	6301	B2	7361	C3	9004	B3
395	A3	3439	A2	6331	A2	7362	C4	9006	B2
396	B3	3440	A3	6345	A2	7363	C3	9007	B2
397	B3	3442	A2	6361	C2	7364	C3	9008	C2
411	A3	3443	A2	6411	A3	7365	C3	9009	C1



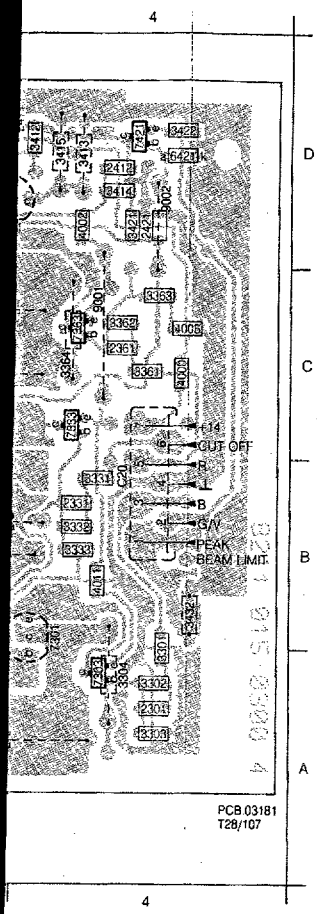
Picture tube module 21" / Bildröhren Mod
Module support tube image 21"



Picture tube module 25"/28" / Bildröhren
Module support tube image 25"/28"

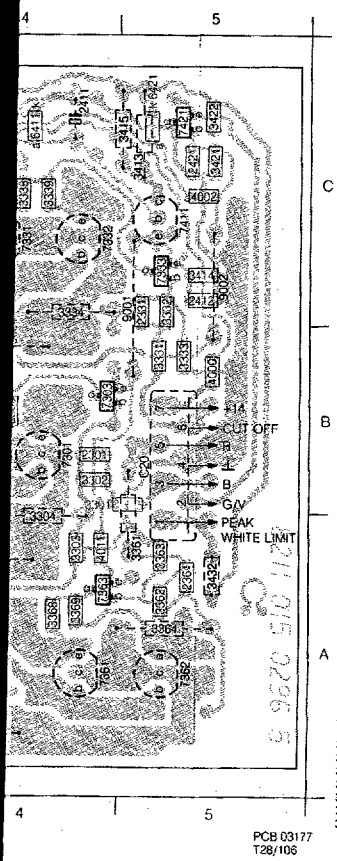


en Modul 21" /



C19	A1	3422	D4
C20	B4	3423	D3
C21	C2	3431	A2
C22	C1	3432	B4
2301	A4	3433	B2
2331	B4	3434	B1
2361	C4	3435	D1
2391	D2	3436	D1
2392	D2	4000	C4
2411	D4	4002	D4
2412	D4	4005	D3
2421	D4	4006	C4
2431	D2	4009	B3
2432	D3	4010	B3
2433	D1	4011	B4
2434	A1	4012	D2
3301	B4	4014	D3
3302	A4	5401	B1
3303	A4	6301	B2
3304	A4	6331	C2
3310	A3	6345	D3
3311	A3	6361	D3
3312	A3	6421	D4
3313	A2	7301	B4
3314	B1	7303	A4
3315	A3	7304	B3
3316	A3	7305	B3
3331	B4	7332	C3
3332	B4	7333	C4
3333	B4	7334	C3
3334	B3	7335	B2
3340	B3	7345	D3
3341	B3	7362	D3
3342	B3	7363	C4
3343	B2	7364	D3
3344	B2	7365	D3
3345	D3	7391	D2
3361	C4	7411	D3
3362	C4	7421	D4
3363	C4	9000	B2
3364	C4	9001	C4
3370	C3	9002	D4
3371	C3	9003	A2
3372	C3	9004	C3
3373	D3	9006	C3
3374	D1	9007	A2
3375	C3	9008	C3
3376	C3		
3377	C3		
3391	D2		
3392	D2		
3393	D2		
3394	D2		
3395	D3		
3396	B3		
3397	B3		
3398	B3		
3411	D3		
3412	D4		
3413	D4		
3414	D4		
3415	D4		
3421	D4		

dröhren Modul 25"/28" / 8"

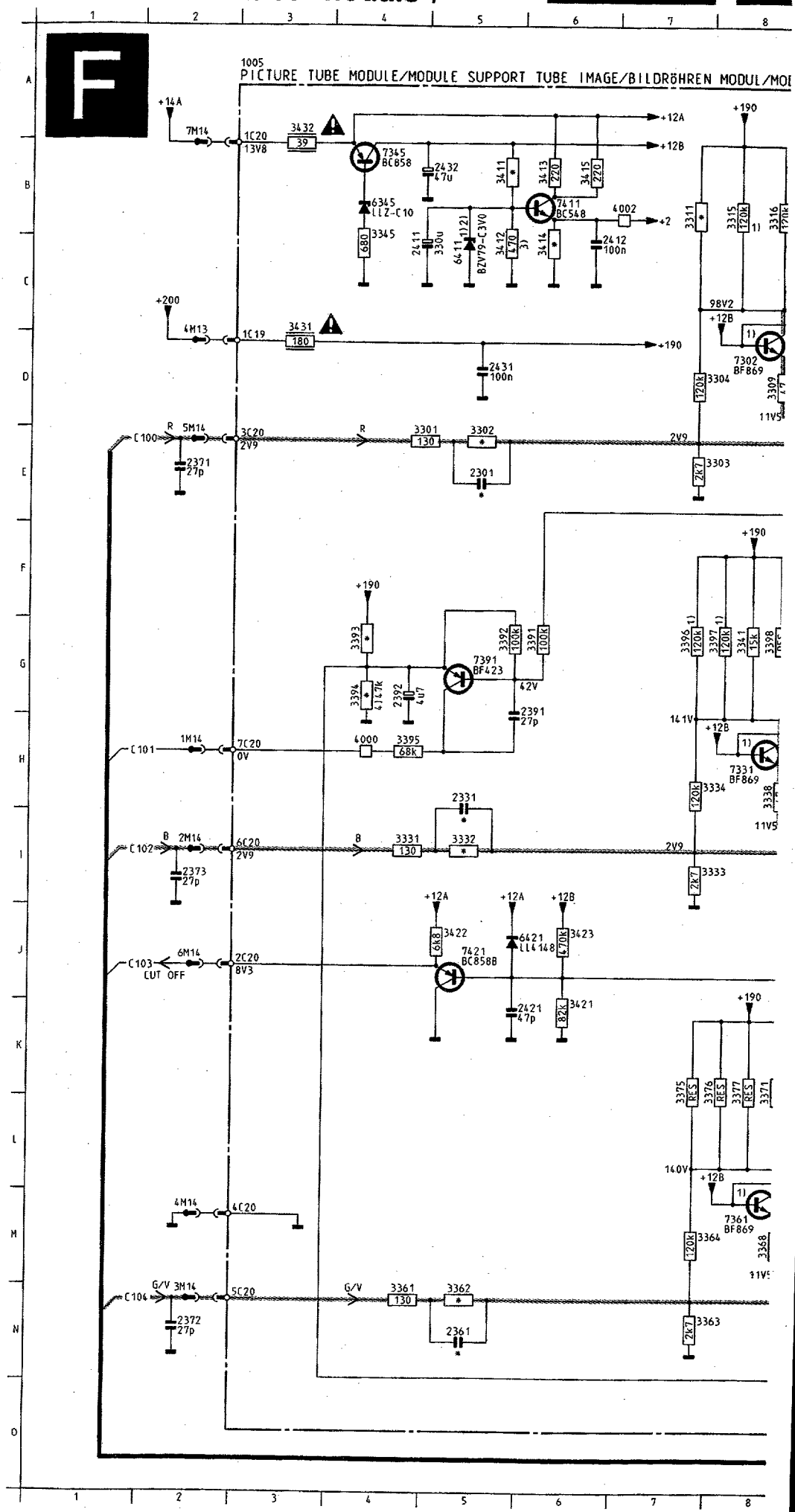


C19	C1	3397	B3
C20	B5	3398	B4
C21	B2	3411	C4
2301	B4	3413	C5
2331	C5	3414	C5
2361	A5	3415	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C3
2412	C5	3431	C1
2421	C5	3432	A5
2431	C2	3433	C1
2432	C3	3434	A2
2433	A2	3435	B1
2434	A2	3436	A1
3301	B4	4000	B5
3302	B4	4002	C5
3303	A4	4003	C3
3304	B4	4005	C3
3308	B4	4007	B3
3309	B4	4008	A3
3310	A4	4008	C4
331.	A4	4011	A4
3312	B3	5401	C2
3313	A3	6301	B3
3314	C2	6331	C3
3315	B3	6345	C3
3316	B4	6361	A3
3331	B5	6411	C4
3332	C5	6421	C5
3333	B5	7301	B4
3334	C4	7302	B4
3338	C4	7303	B4
3339	C4	7304	B3
3340	C3	7305	B3
3341	C4	7331	C4
3342	C4	7332	C4
3343	C4	7333	C5
3344	C3	7334	C4
3345	C3	7335	C3
3361	A5	7345	C3
3362	A5	7361	A4
3363	A5	7362	A5
3364	A5	7363	A4
3368	A4	7364	A4
3369	A4	7365	A3
3370	A3	7391	C2
3371	A3	7411	C5
3372	A4	7421	C5
3373	A3	8000	A2
3374	A1	9000	A4
3375	A3	9001	C5
3376	A4	9002	C5
3377	A4	9003	A3
3391	C3	9004	C4
3392	C3	9006	B3
3393	C2	9007	B3
3394	C3	9008	A3
3395	C3	9009	A1
3396	B4		

Picture tube module /

F

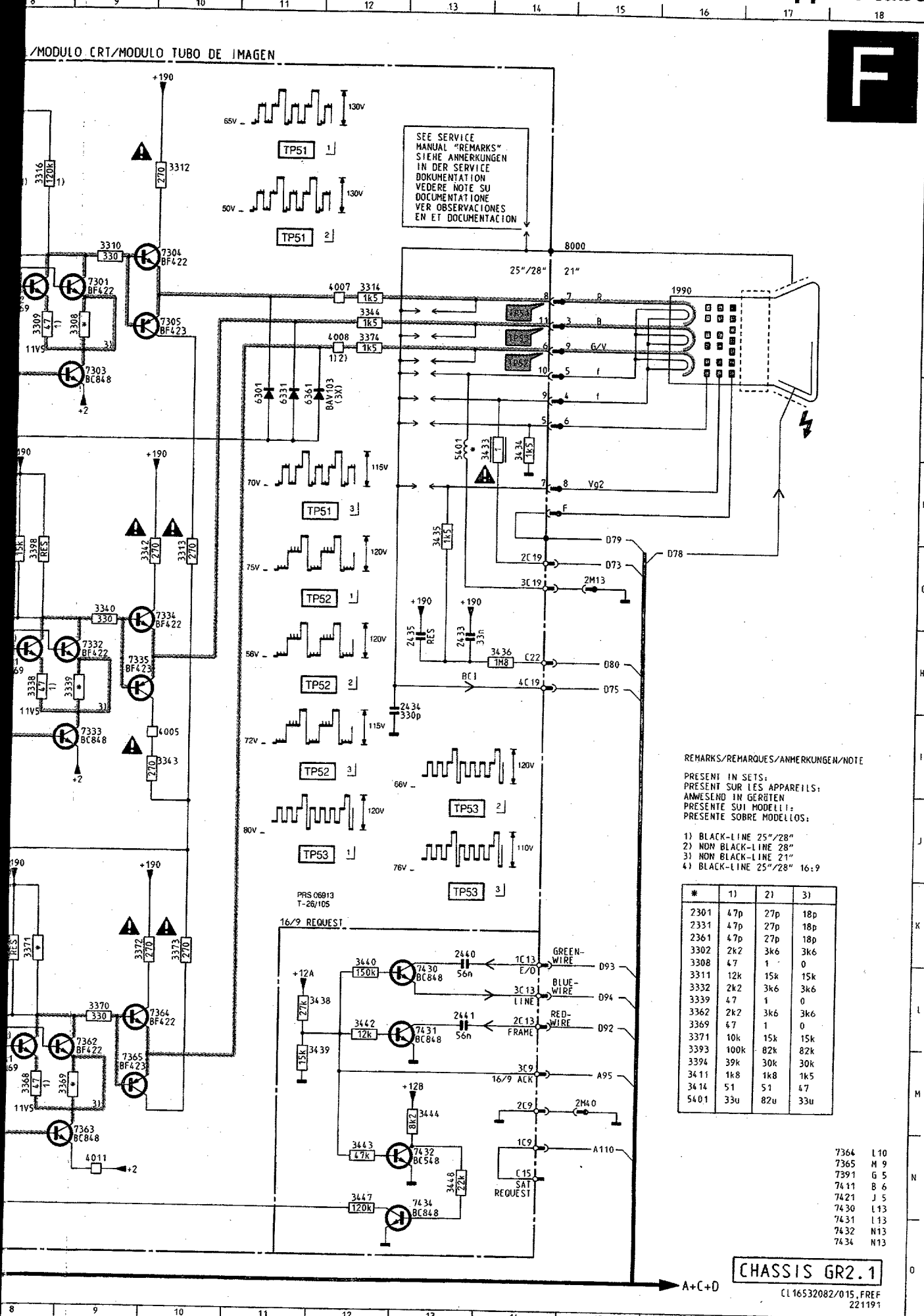
1005
PICTURE TUBE MODULE/MODULE SUPPORT TUBE IMAGE/BILDRÖHREN MODUL/MOI



Bildröhren Modul / Module support tube image

F

/MODULO CRT/MODULO TUBO DE IMAGEN



*	1)	2)	3)
2301	47p	27p	18p
2331	47p	27p	18p
2361	47p	27p	18p
3302	2k2	3k6	3k6
3308	47	1	0
3311	12k	15k	15k
3332	2k2	3k6	3k6
3339	47	1	0
3362	2k2	3k6	3k6
3369	47	1	0
3371	10k	15k	15k
3393	100k	82k	82k
3394	39k	30k	30k
3411	1k8	1k8	1k5
3414	51	51	47
5401	33u	82u	33u

7364 L10
7365 M 9
7391 G 5
7411 B 6
7421 J 5
7430 L13
7431 L13
7432 N13
7434 N13

CHASSIS GR2.1

CL16532082/015,FREF 221191

1005 A 2
1990 D16
2301 E 5
2331 H 5
2361 N 5
2371 E 2
2372 N 2
2373 I 2
2391 H 5
2392 G 4
2411 C 4
2412 C 6
2421 K 5
2431 D 5
2432 B 5
2433 H13
2434 I13
2435 H13
2440 K13
2441 L13
3301 E 4
3302 E 5
3303 E 7
3304 D 7
3308 D 9
3309 D 8
3310 C 9
3311 B 7
3312 B10
3313 G10
3314 D12
3315 B 8
3316 B 8
3331 I 4
3332 I 5
3333 I 7
3334 H 7
3338 H 8
3339 H 9
3340 G 9
3341 G 8
3342 G 9
3343 I10
3344 D12
3345 B 4
3361 N 4
3362 N 5
3363 N 7
3364 M 7
3368 M 8
3369 M 9
3370 L 9
3371 K 8
3372 K 9
3373 K10
3374 D12
3375 K 7
3376 K 8
3377 K 8
3391 G 6
3392 G 5
3393 G 4
3394 G 4
3395 H 4
3396 G 7
3397 G 8
3398 G 8
3411 B 5
3412 C 5
3413 B 6
3414 C 6
3415 B 6
3421 J 6
3422 J 5
3423 J 6
3431 D 3
3432 A 3
3433 E14
3434 E14
3435 F13
3436 H14
3438 L11
3439 M11
3440 L12
3442 L12
3443 N12
3444 M13
3447 N12
3448 N13
4000 H 4
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4005 I10
4007 D12
4008 D12
4011 N 9
5401 E13
6301 E11
6331 E11
6345 B 4
6361 E11
6411 C 5
6421 J 6
7301 D 9
7302 D 8
7303 E 9
7304 C10
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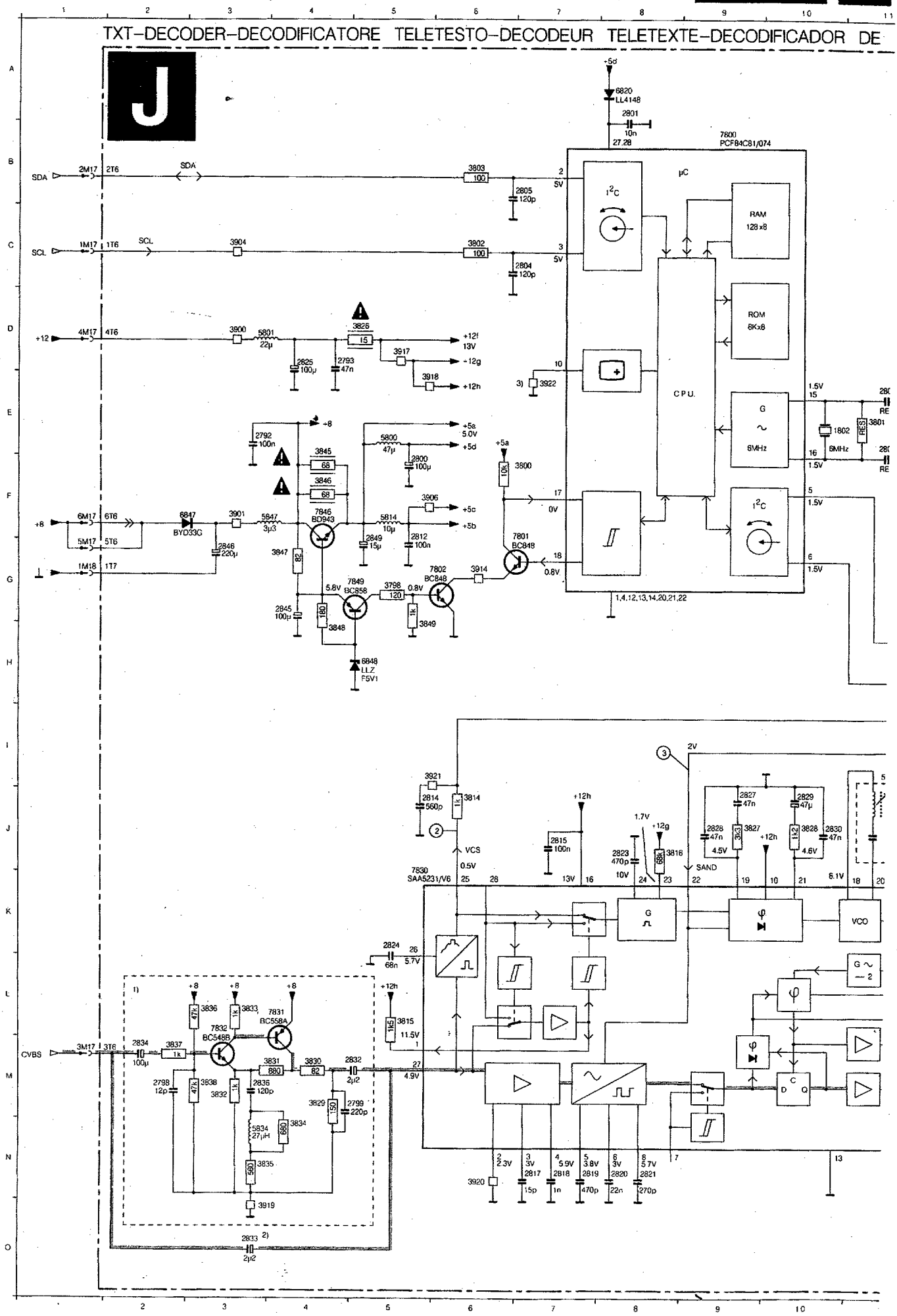
7333 I 9
7334 H10
7335 H 9
7345 B 4
7361 M 8
7362 M 9
7363 N 9


TXT–DECODER–DECODIFICATORE TELETESTO–DECODEUR TELETEXTE–DECODIFICADOR DE
J
7800 PCF84C81/074
μC
I²C
RAM 128 x8
ROM 8Kx8
CPU.
6MHz
7830 SAA5231/V6
VCS
SAND
VCO
CVBS
SDA
SCL
BYD33G
BD943
BC858
BC848
BC548B
BC558A
1,4,12,13,14,20,21,22

OR DE TELETEX

J

REMARKS/ REMARQUES/ ANMERKUNGEN/ NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEEND IN GERAETEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) SCAN
2) NON SCAN
3) NON ES

RAM

CCT

CHASSIS GR2.1

PRS 06854
T-08 104

1801	L12
1802	E10
2792	E3
2793	D4
2794	I20
2795	I20
2796	I20
2797	L20
2798	M2
2799	M4
2800	F5
2801	A8
2802	E11
2803	E11
2804	C6
2805	B6
2810	G19
2811	A16
2812	G5
2813	M12
2814	J5
2815	J7
2816	J12
2817	N7
2818	N7
2819	N7
2820	N8
2821	N8
2822	L11
2823	J8
2824	K5
2825	D4
2826	L12
2827	J9
2828	J9
2829	J10
2830	J10
2832	M5
2833	C3
2834	M2
2836	M3
2845	G4
2846	G3
2849	G5
3795	J20
3796	K19
3797	A15
3798	G5
3800	F6
3801	E11
3802	C6
3803	B6
3804	L19
3805	K18
3807	I18
3808	J19
3809	J18
3810	J18
3811	J18
3812	G18
3813	G20
3814	J6
3815	L5
3816	J8
3817	G18
3818	F12
3819	F12
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3821	E13
3822	E14
3823	E18
3824	G18
3825	G19
3826	D5
3827	J9
3828	J10
3829	M4
3830	M4
3831	M4
3832	M3
3833	L3
3834	N4
3835	N3
3836	L3
3837	M2
3838	M3
3839	F17
3840	F17
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3842	E17
3843	E16
3845	F4
3846	F4
3847	G4
3848	H4
3849	H5
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3901	F3
3904	C3
3906	F5
3908	I17
3910	K18
3913	I20
3914	G6
3915	J20
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3918	E5
3919	O4
3920	N6
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3922	E7
5800	E5
5801	D3
5803	I11
5814	F5
5816	J12
5834	N3
5847	F4
6809	I18
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6811	H19
6812	H19
6813	G20
6814	L20
6820	A8
6847	F3
6848	H5
7800	B9
7801	F7
7802	G5
7803	K19
7810	A11
7811	J19
7812	J19
7820	F11
7830	K5
7831	L4
7832	L3
7846	F4
7849	G5

1290 TXT FLOF MODULE

1801	L12
1802	E10
2792	E3
2793	D4
2794	I 20
2795	I 20
2796	I 20
2797	L20
2798	M2
2799	M4
2800	F5
2801	A8
2802	E11
2803	E11
2804	C6
2805	B6
2810	G19
2811	A16
2812	G5
2813	M12
2814	J5
2815	J7
2816	J12
2817	N7
2818	N7
2819	N7
2820	N8
2821	N8
2822	L11
2823	J8
2824	K5
2825	D4
2826	L12
2827	J9
2828	J9
2829	J10
2830	J10
2832	M5
2833	O3
2834	M2
2836	M3
2845	G4
2846	G3
2849	G5
3795	J20
3796	K19
3797	A15
3798	G5
3800	F6
3801	E11
3802	C6
3803	B6
3804	L19
3805	K18
3807	I 18
3808	J19
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3819	F12
3820	E13
3821	E13
3822	E14
3823	E18
3824	G18
3825	G19
3826	D5
3827	J9
3828	J10
3829	M4
3830	M4
3831	M4
3832	M3
3833	L3
3834	N4
3835	N3
3836	L3
3837	M2
3838	M3
3839	F17
3840	F17
3841	E17
3842	E17
3843	E16
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3846	F4
3847	G4
3848	H4
3849	H5
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3901	F3
3904	C3
3906	F5
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3913	I 20
3914	G6
3915	J20
3917	D5
3918	E5
3919	O4
3920	N6
3921	I 6
3922	E7
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5801	D3
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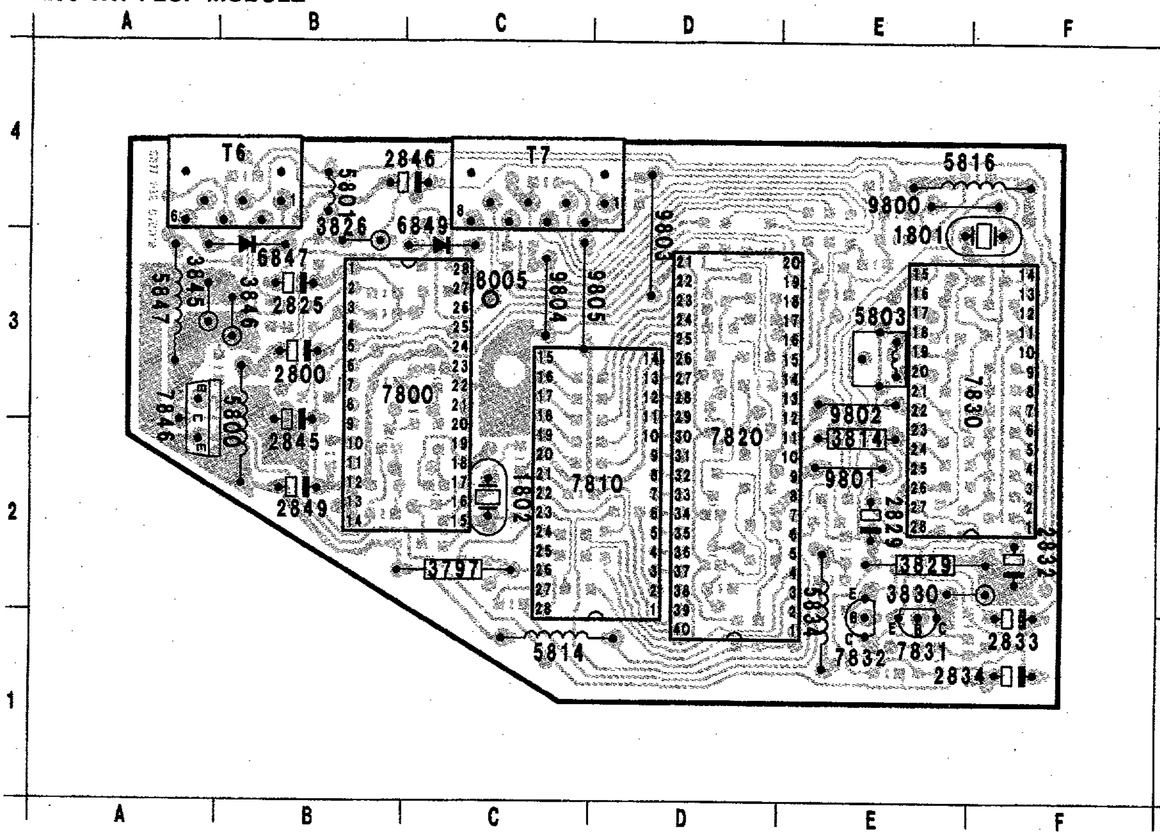
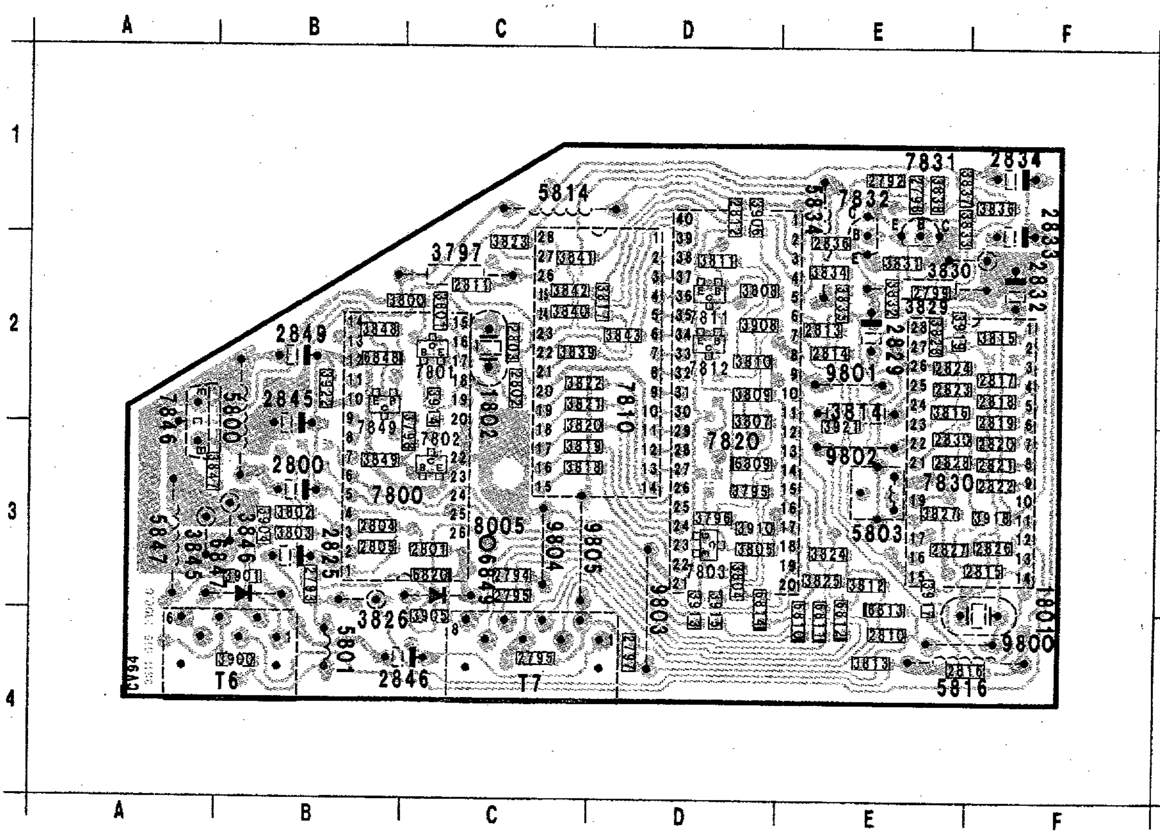
5816	J12
5834	N3
5847	F4
6809	I 18
6810	H19
6811	H19
6812	H19
6813	G20
6814	L20
6820	A8
6847	F3
6848	H5
7800	B9
7801	F7
7802	G6
7803	K19
7810	A17
7811	J19
7812	J19
7820	F13
7830	K5
7831	L4
7832	L3
7846	F4
7849	G5





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2793	B 3	3904	B 3
2794	C 3	3905	C 4
2795	C 3	3906	D 1
2796	C 4	3908	D 2
2797	D 4	3910	D 3
2798	E 1	3913	D 3
2799	E 2	3914	C 2
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2810	E 4	5800	B 2
2811	C 2	5801	B 4
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2816	F 4	5847	A 3
2817	F 2	6809	D 3
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2823	E 2	6820	C 3
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2829	E 2	7802	C 3
2830	E 3	7803	D 3
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2833	F 1	7811	D 2
2834	F 1	7812	D 2
2836	E 2	7820	D 3
2845	B 2	7830	E 3
2846	C 4	7831	E 1
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3796	D 3	7849	B 3
3797	C 2	8005	C 3
3798	C 3	9800	F 4
3800	C 2	9801	E 2
3801	C 2	9802	E 3
3802	B 3	9803	D 3
3803	B 3	9804	C 3
3804	D 3	9805	D 3
3805	D 3		
3807	D 2		
3808	D 2		
3809	D 2		
3810	D 2		
3811	D 2		
3812	E 3		
3813	E 4		
3814	E 2		
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3817	D 2		
3818	C 3		
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3825	E 3		
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3828	E 2		
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3836	F 1		
3837	E 1		
3838	E 1		
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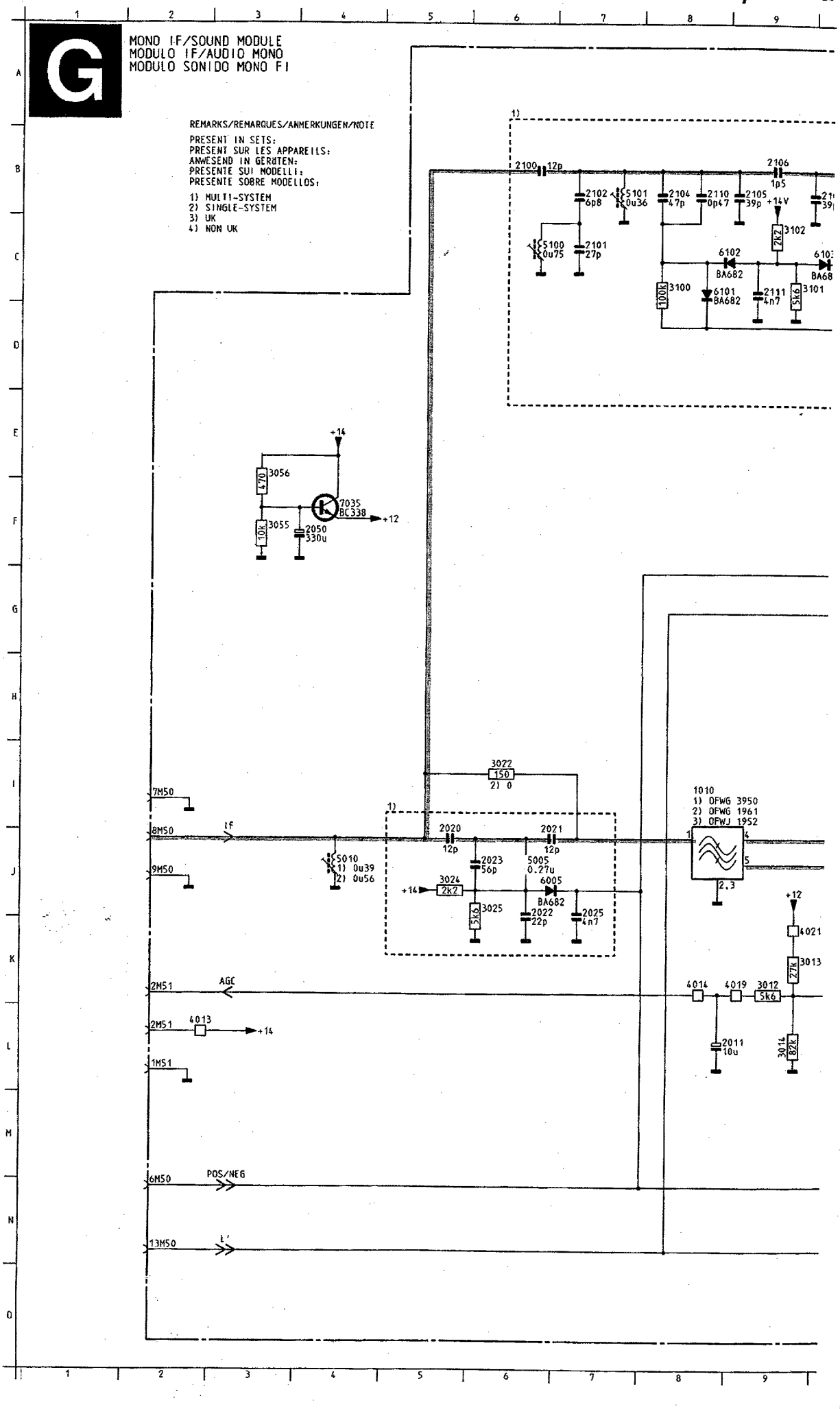
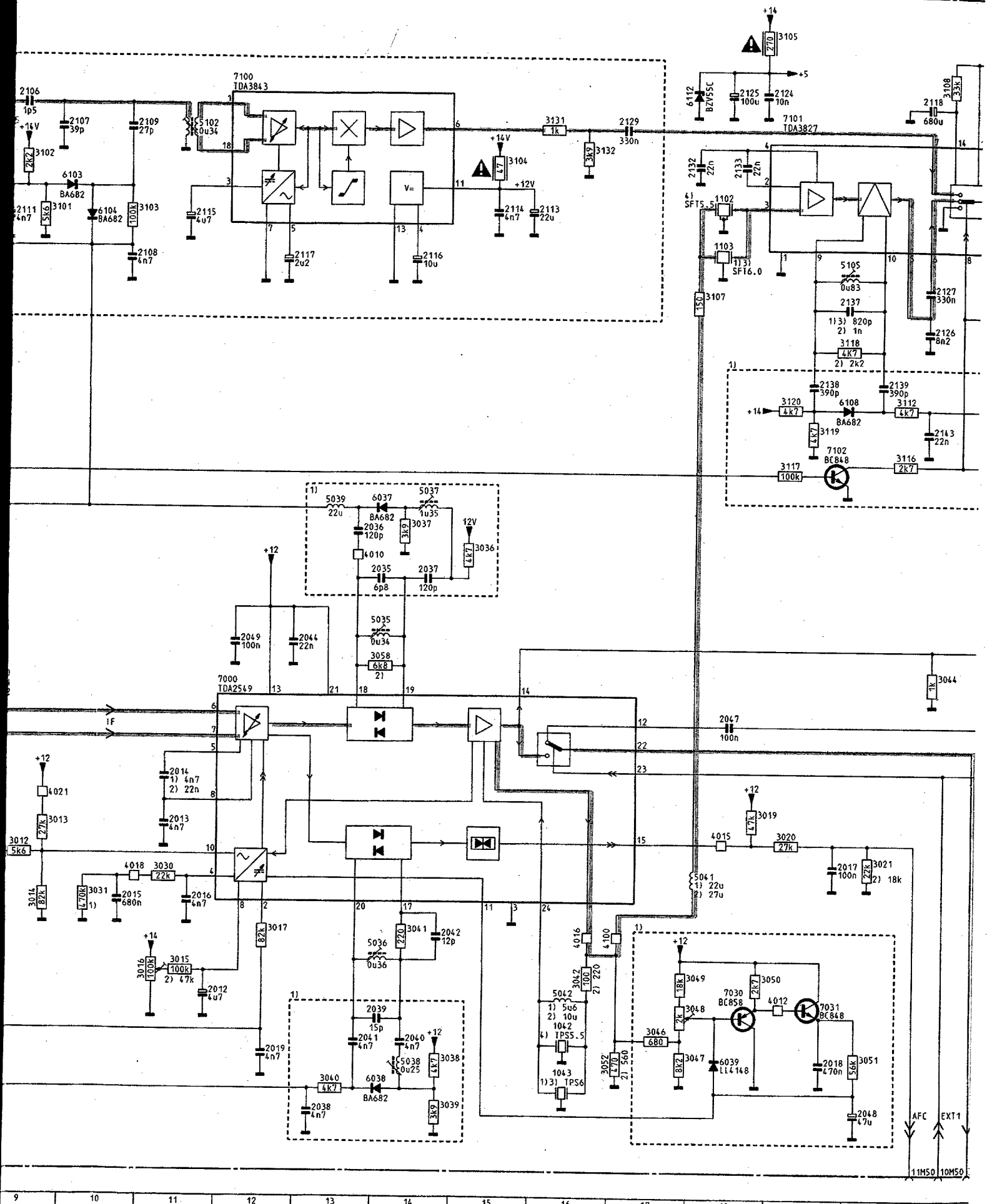
3846	B 3		

Mono IF/sound

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6038 BA682
6039 LL4148
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1103 SFT6.0
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+14V
+12V
+12
+5
IF
AFC
EXT1
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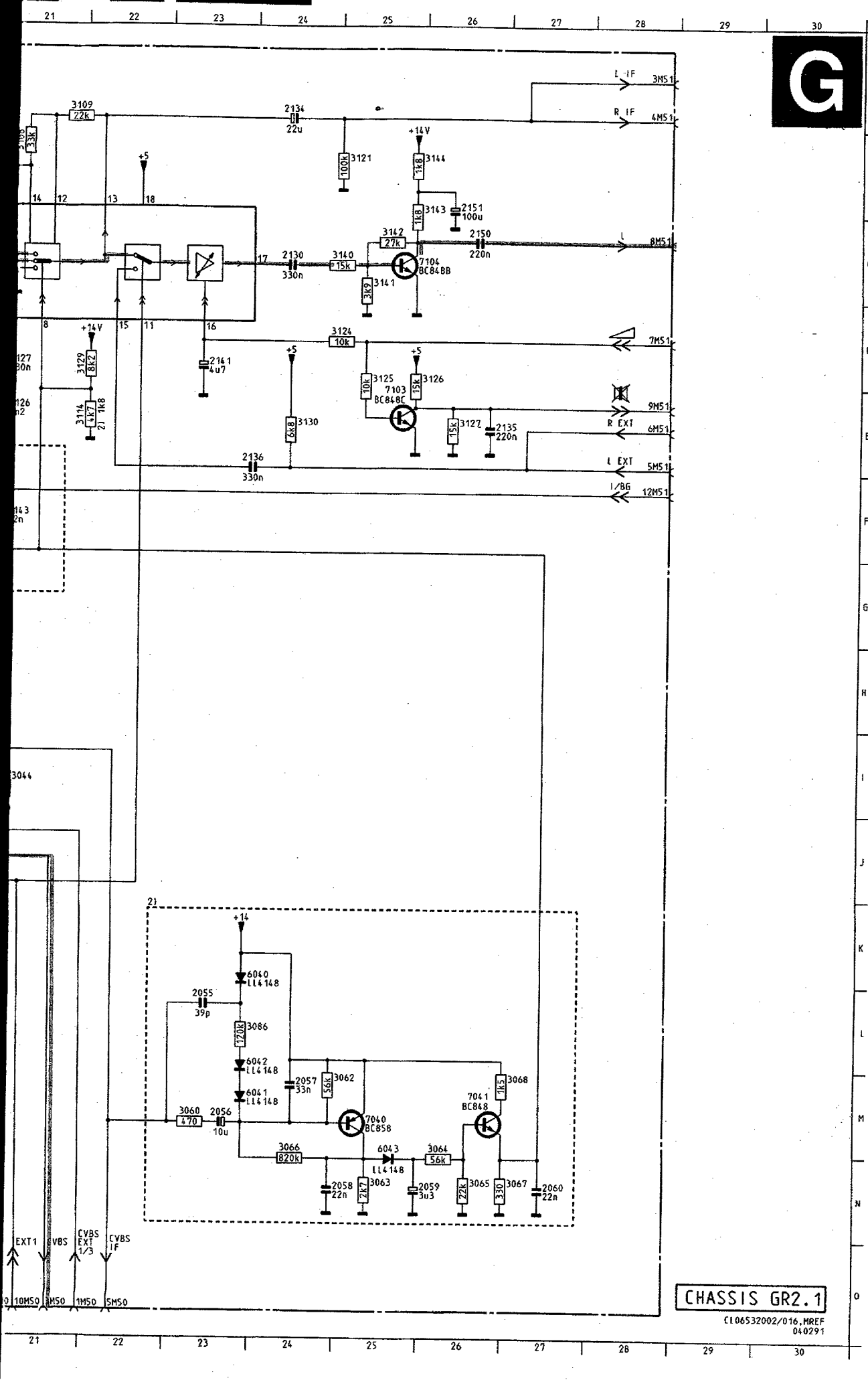

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	1043	N16	3104	C15
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	2011	L 9	3108	B21
	2012	M11	3109	A21
	2013	K11	3112	F20
	2014	J11	3114	E22
	2015	L10	3116	F20
	2016	L11	3117	G19
	2017	L19	3118	E20
B	2018	N19	3119	F19
	2019	N12	3120	F19
	2020	J 5	3121	B25
	2021	J 7	3124	D25
	2022	K 6	3125	D25
	2023	J 6	3126	D26
	2025	K 7	3127	E26
	2035	H14	3129	D22
C	2036	G13	3130	E24
	2037	H14	3131	B16
	2038	O13	3132	C16
	2039	M14	3140	C25
	2040	N14	3141	C25
	2041	N13	3142	C25
	2042	L14	3143	B26
	2044	I13	3144	B26
D	2047	J18	4010	H13
	2048	O20	4012	M19
	2049	I12	4014	K 8
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	2055	L23	4016	L16
	2056	M23	4018	L11
	2057	M24	4019	K 9
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	2101	C 7	5035	I14
	2102	B 7	5036	M14
	2104	B 8	5037	G14
F	2105	B 9	5038	N14
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	2107	B10	5041	L18
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	2109	B10	5100	C 6
	2110	B 8	5101	B 7
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	2118	B21	6040	K24
	2124	B19	6041	M24
	2125	B18	6042	M24
H	2126	E21	6043	N25
	2127	D21	6101	C 8
	2129	B17	6102	C 9
	2130	C24	6103	C10
	2132	C18	6104	C10
	2133	C18	6108	F20
	2134	A24	6112	B18
	2135	E26	7000	I12
I	2136	E24	7030	M18
	2137	D20	7031	M19
	2138	F19	7035	F 4
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	2151	C26	7102	F19
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	3014	L 9		
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	3017	L12		
	3019	K18		
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	3021	K20		
	3022	I 6		
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	3064	N26		
	3065	N26		
	3066	N24		
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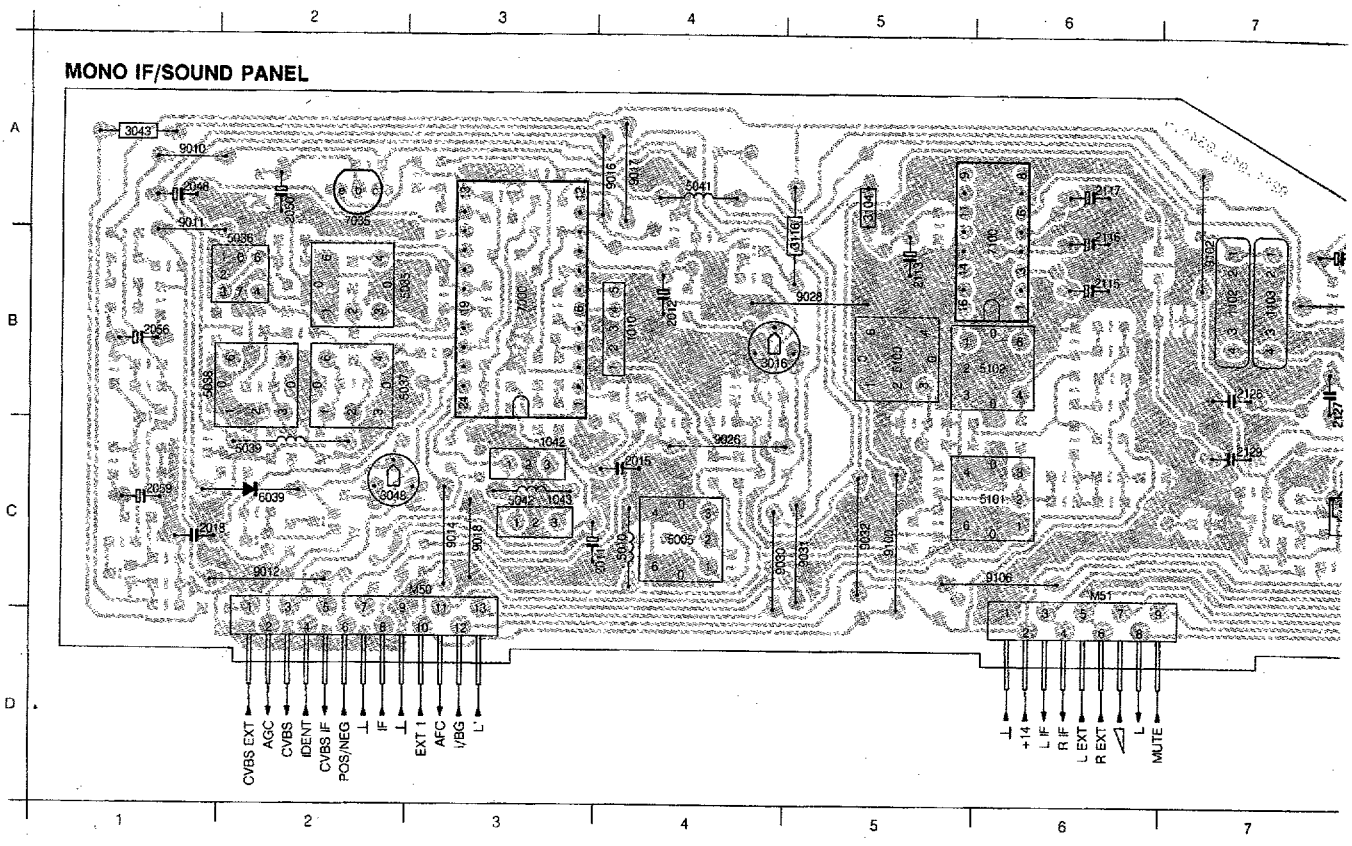
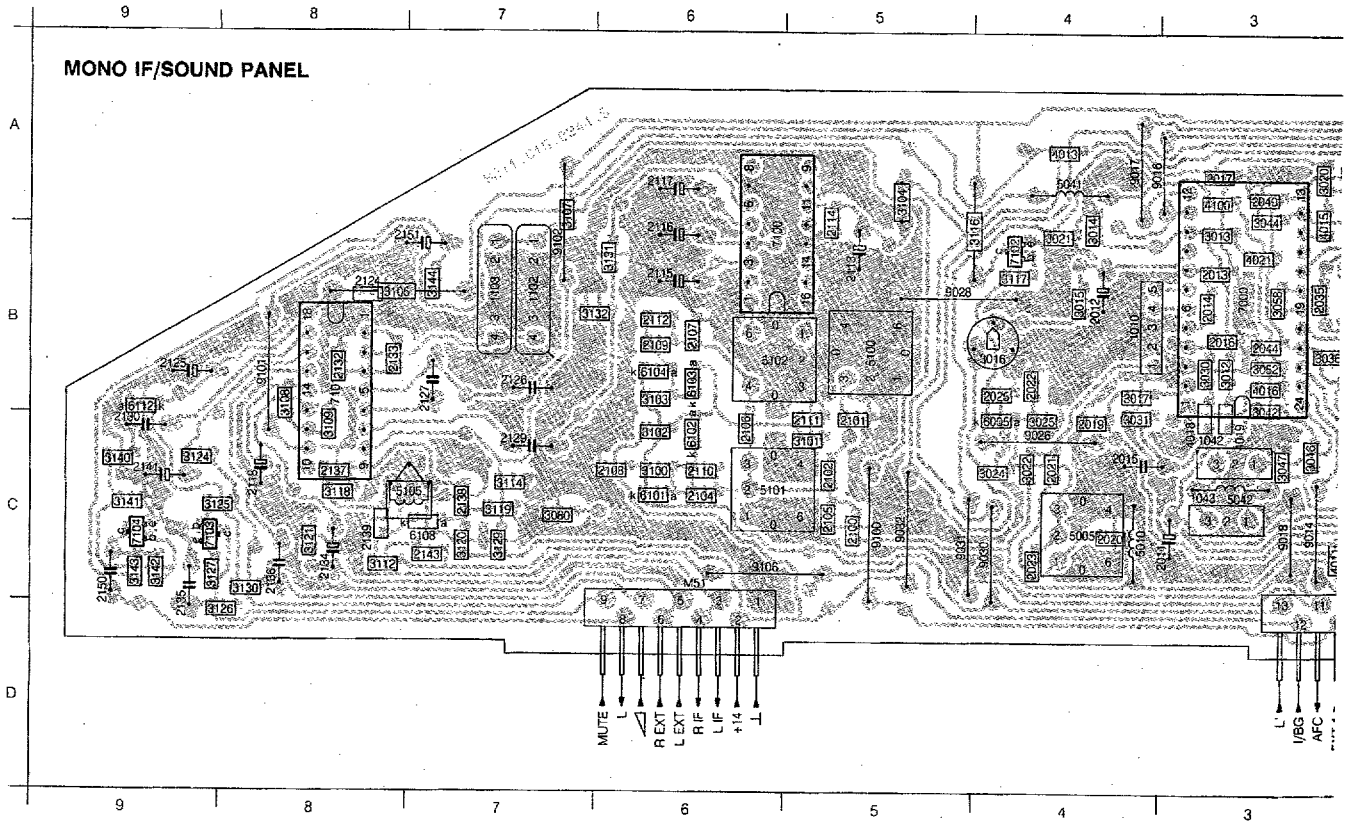
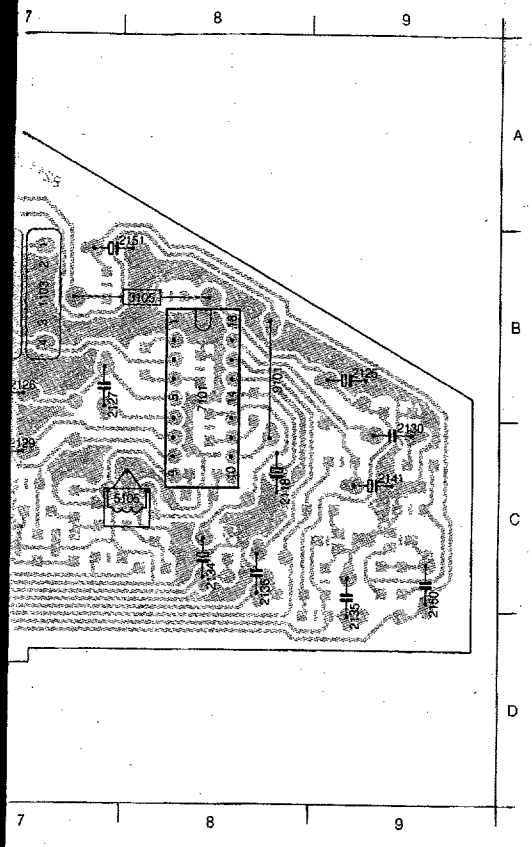
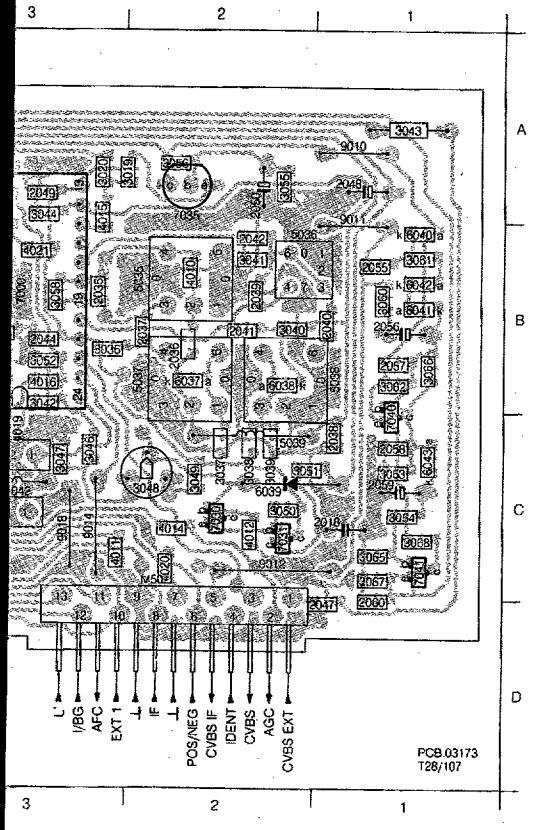
Mono IF/sound module / Mono ZF/Tonmodul /





Module FI/son mono





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1103 B7
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2013 B3
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2015 C4
2016 B3
2017 A3
2018 C1
2019 C4
2020 C4
2021 C4
2022 B4
2023 C4
2025 B4
2035 B3
2036 B2
2037 B2
2038 C1
2039 B2
2040 B2
2041 B2
2042 B2
2044 B3
2047 D1
2048 A1
2049 A3
2050 A2
2055 B1
2056 B1
2057 B1
2058 C1
2059 C1
2060 D1
2100 C5
2101 C5
2102 C5
2104 C6
2105 C5
2106 C6
2107 B6
2108 C6
2109 B6
2110 C6
2111 C5
2112 B6
2113 B5
2114 B5
2115 B6
2116 B6
2117 A6
2118 C8
2124 B8
2125 B9
2126 B7
2127 B7
2129 C7
2130 C9
2132 B8
2133 B8
2134 C8
2135 D9
2136 C8
2137 C8
2138 C7
2139 C8
2141 C9
2143 C7
2150 D9
2151 B7
3012 B3
3013 B3
3014 B4
3015 B4
3016 B4
3017 B4
3019 A3
3020 A3
3021 B4
3022 C4
3024 C4
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3030 B3
3031 C4
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3038 C2
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3042 B3
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3044 A3
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3102 C6
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3105 B8
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3126 D8
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4011 C3
4012 C2
4013 A4
4014 C2
4015 B3
4016 B3
4018 C3
4019 C3
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4021 B3
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5010 C4
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5037 B3
5038 B1
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5042 C3
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5101 C6
5102 B6
5105 C7
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7104 C9
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9011 B1
9012 C2
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9016 A4
9017 A4
9018 C3
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9028 B5
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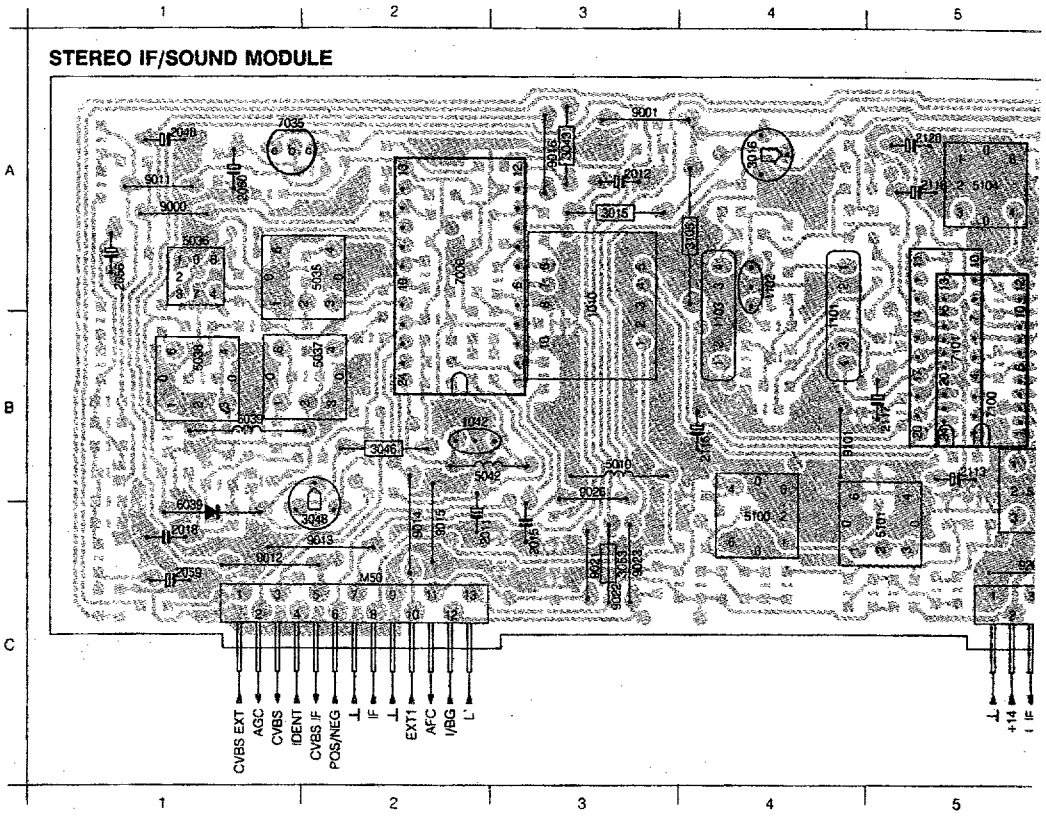
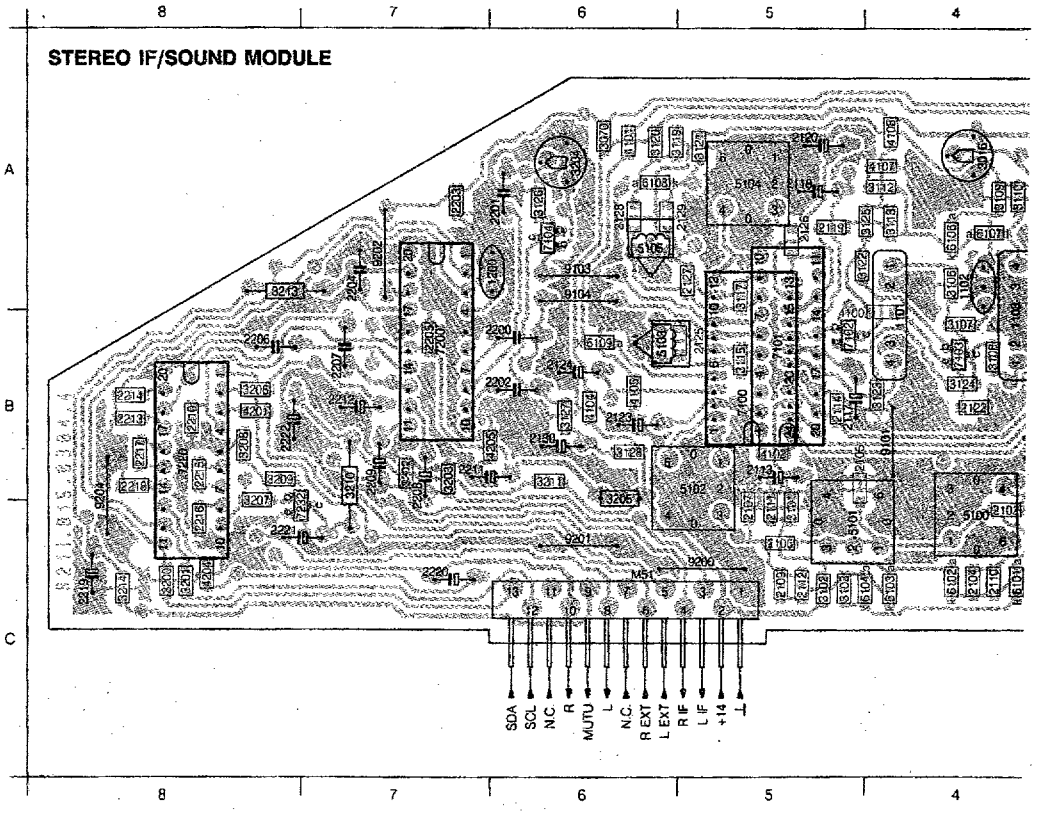
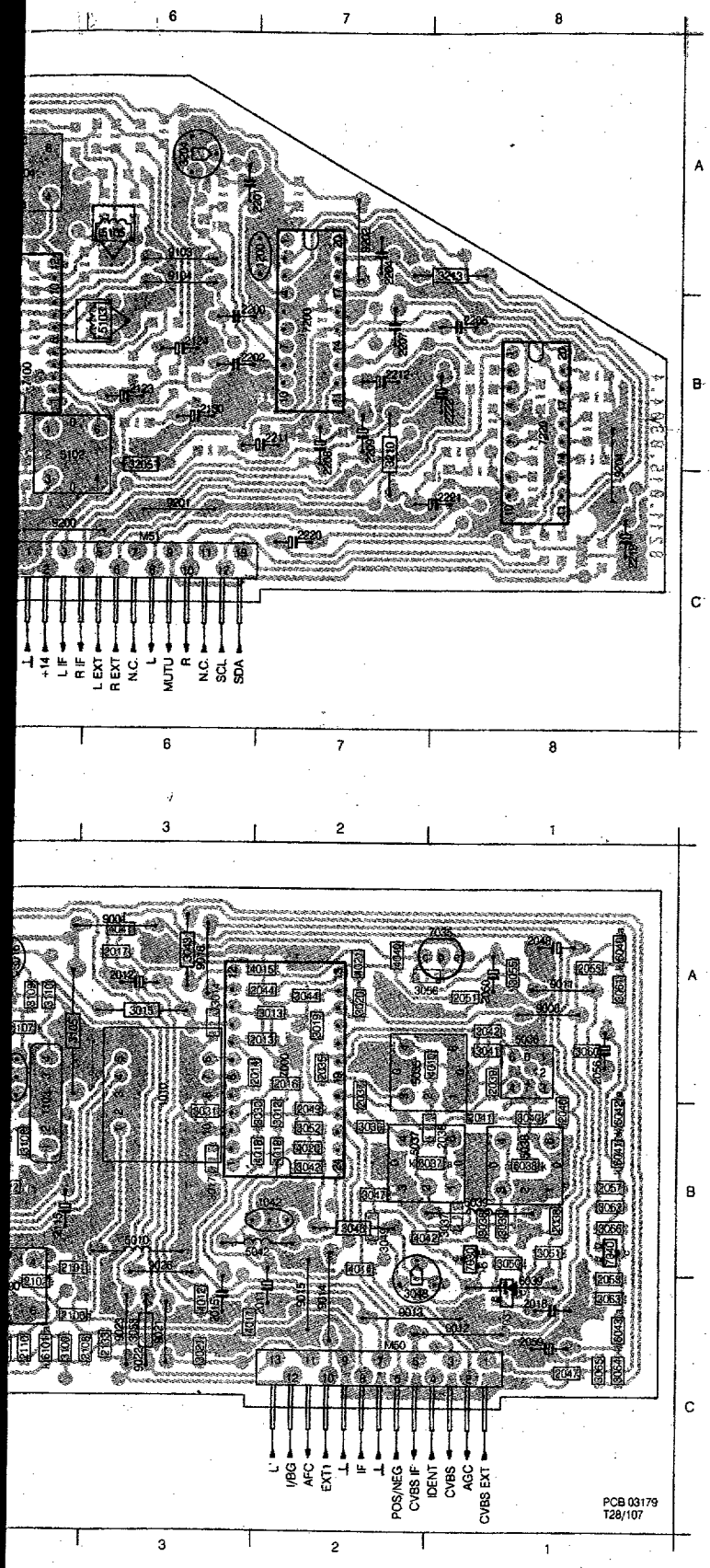
9102 B7
9106 C6

Stereo IF/sound module / Stereo ZF/Tonmodul /





Module FI/son stéréo



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1102	A4	3103	C5
1103	B4	3105	A4
1200	A7	3106	A4
2011	C2	3107	B4
2012	A3	3108	B4
2013	A2	3109	A4
2014	A3	3110	A4
2015	C3	3112	A4
2016	A2	3113	A4
2017	A3	3115	B5
2018	C1	3117	B5
2035	A2	3119	A6
2036	B1	3120	A6
2037	B2	3121	A5
2038	B1	3122	A5
2039	A1	3123	B4
2040	B1	3124	B4
2041	B1	3125	A5
2042	A1	3126	A6
2044	A2	3127	B6
2047	C1	3128	B6
2048	A1	3200	C8
2049	B2	3201	C8
2050	A1	3202	B7
2051	A1	3203	B7
2055	A1	3204	A6
2056	A1	3205	C6
2057	B1	3206	B8
2058	C1	3207	C8
2059	C1	3208	B8
2100	C3	3209	B8
2101	B3	3210	B7
2102	C4	3211	B6
2104	C4	3213	A8
2105	B5	3214	C8
2106	C5	4010	A2
2107	C5	4011	C3
2108	C4	4012	C3
2109	C5	4014	B2
2110	C4	4015	A2
2111	C5	4018	B3
2112	C5	4019	B2
2113	B5	4020	B2
2114	B5	4021	A2
2115	B4	4040	A2
2117	B5	4041	A3
2118	A5	4042	B1
2119	A5	4100	B5
2120	A5	4101	A6
2122	B4	4102	B5
2123	B6	4104	B6
2124	B6	4105	B6
2125	B5	4107	A4
2126	A5	4108	A4
2127	A6	4201	B8
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2130	B6	5010	B3
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2202	B6	5038	B1
2203	A7	5039	B1
2204	A7	5042	B2
2205	B7	5100	C4
2206	B8	5101	C5
2207	B7	5102	B5
2208	C7	5103	B6
2209	B7	5104	A5
2210	B8	5105	A6
2211	B7	6037	B1
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2215	B8	6041	B1
2216	C8	6042	B1
2217	B8	6043	C1
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2219	C8	6102	C4
2220	C7	6103	C4
2221	C8	6104	C5
2222	B8	6106	A4
3012	B2	6107	A4
3013	A2	6108	A6
3014	A3	6109	B6
3015	A3	7000	A2
3016	A4	7030	B1
3017	B3	7031	C1
3019	A2	7035	A1
3020	A2	7040	B1
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3037	B1	7104	A6
3038	B1	7200	B7
3039	B1	7220	B8
3040	B1	7232	C8
3041	A1	9000	A1
3042	B2	9001	A3
3043	A3	9011	A1
3044	A2	9012	C1
3046	B2	9013	C2
3047	B2	9014	C2
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3049	B2	9016	A3
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3051	B1	9022	C3
3052	B2	9023	C3
3053	C3	9026	B3
3055	A1	9101	B4
3056	A1	9103	A6
3060	A1	9104	A6
3061	A1	9200	C5
3062	B1	9201	C6
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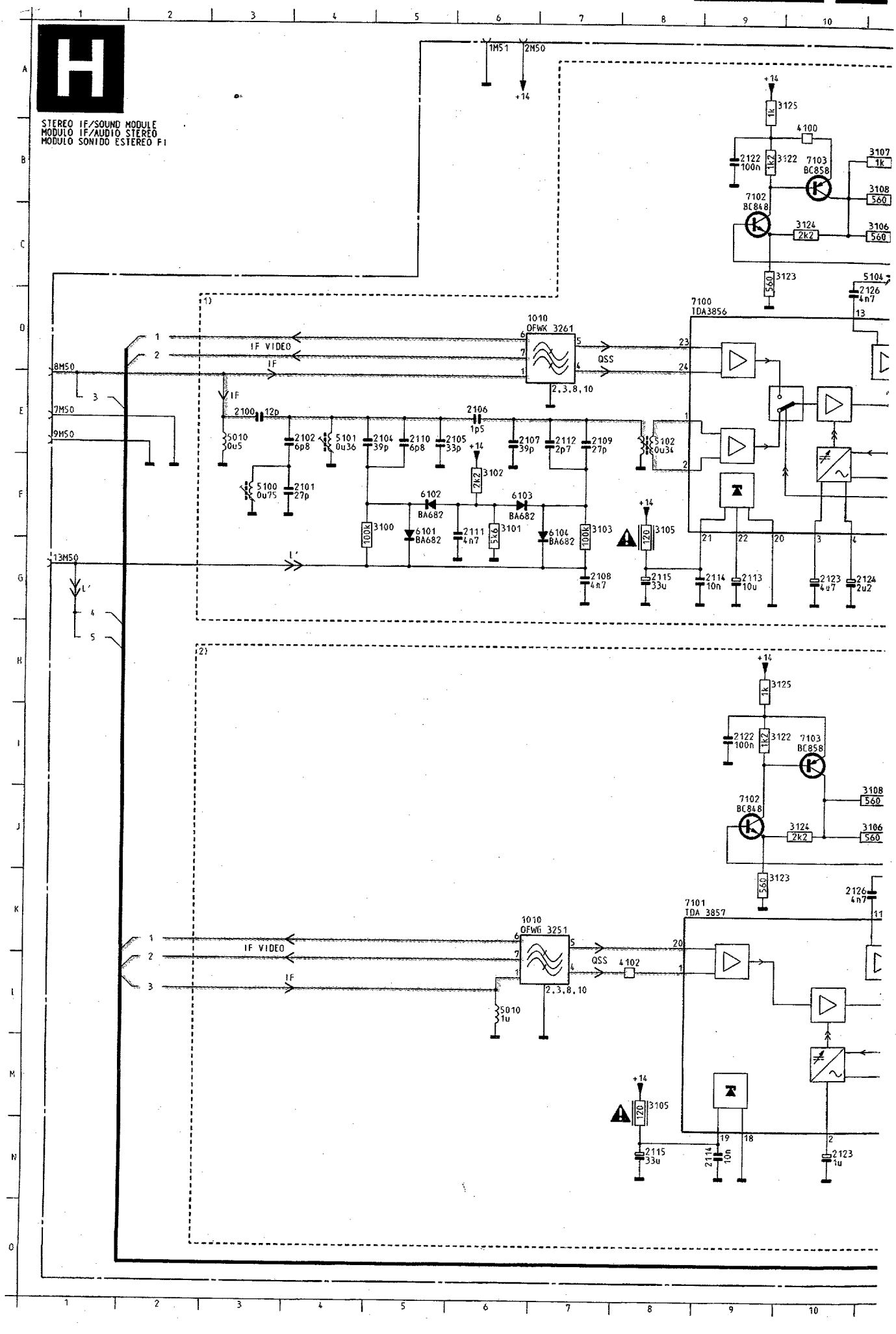
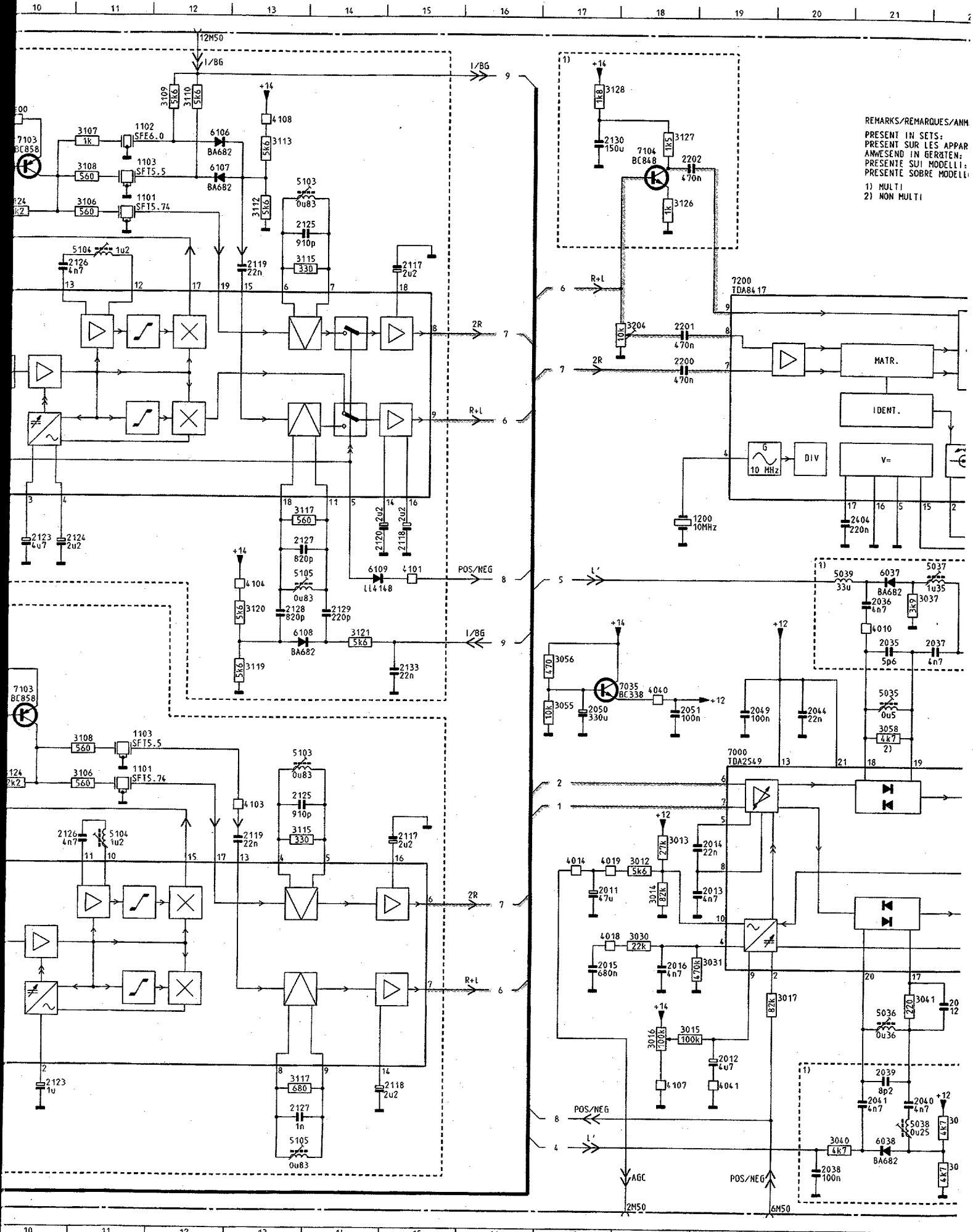
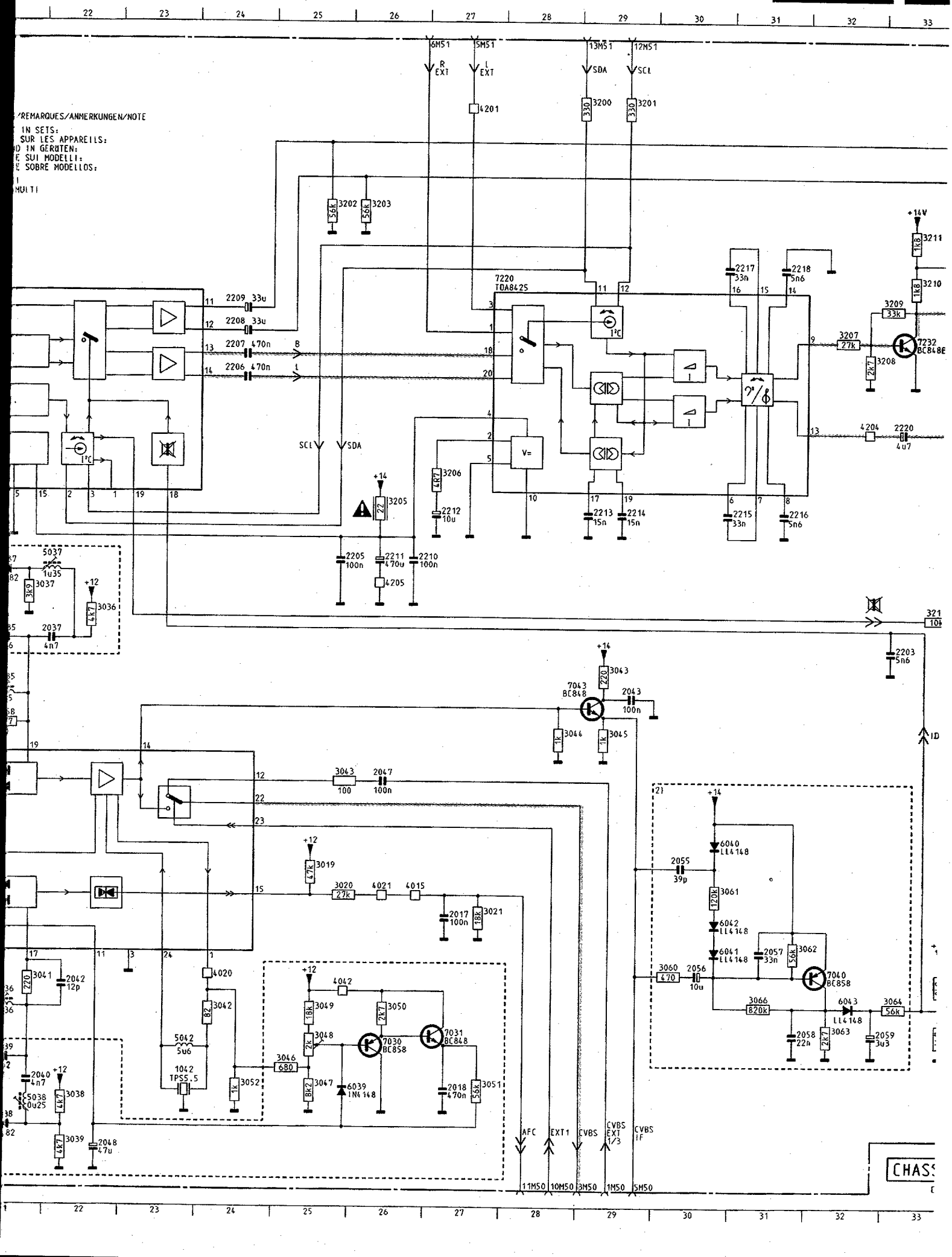
3065	C1		

Stereo IF/sound module / Stereo ZF/Tonmodul /



Module FI/son stéréo




REMARQUES/ANMERKUNGEN/NOTE
IN SETS:
SUR LES APPAREILS:
D IN GERÄTEN:
E SUI MODELLI:
E SOBRE MODELLOS:
MULTI
6M51 R EXT
5M51 L EXT
13M51 SDA
12M51 SCL
4201
3200
3201
3202
3203
7220 TDA8425
2209 33u
2208 33u
2207 470n
2206 470n
SCL
SDA
3205
3206
2212 10u
2205 100n
2211 470u
2210 100n
4205
2213 15n
2214 15n
2215 33n
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2217 33n
2218 5n6
3207 27k
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4204
2220 4u7
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2055 39p
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2057 33n
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7040 BC858
3060 470
2056 10u
3066 820k
6043 LL4148
3064 56k
2058 22n
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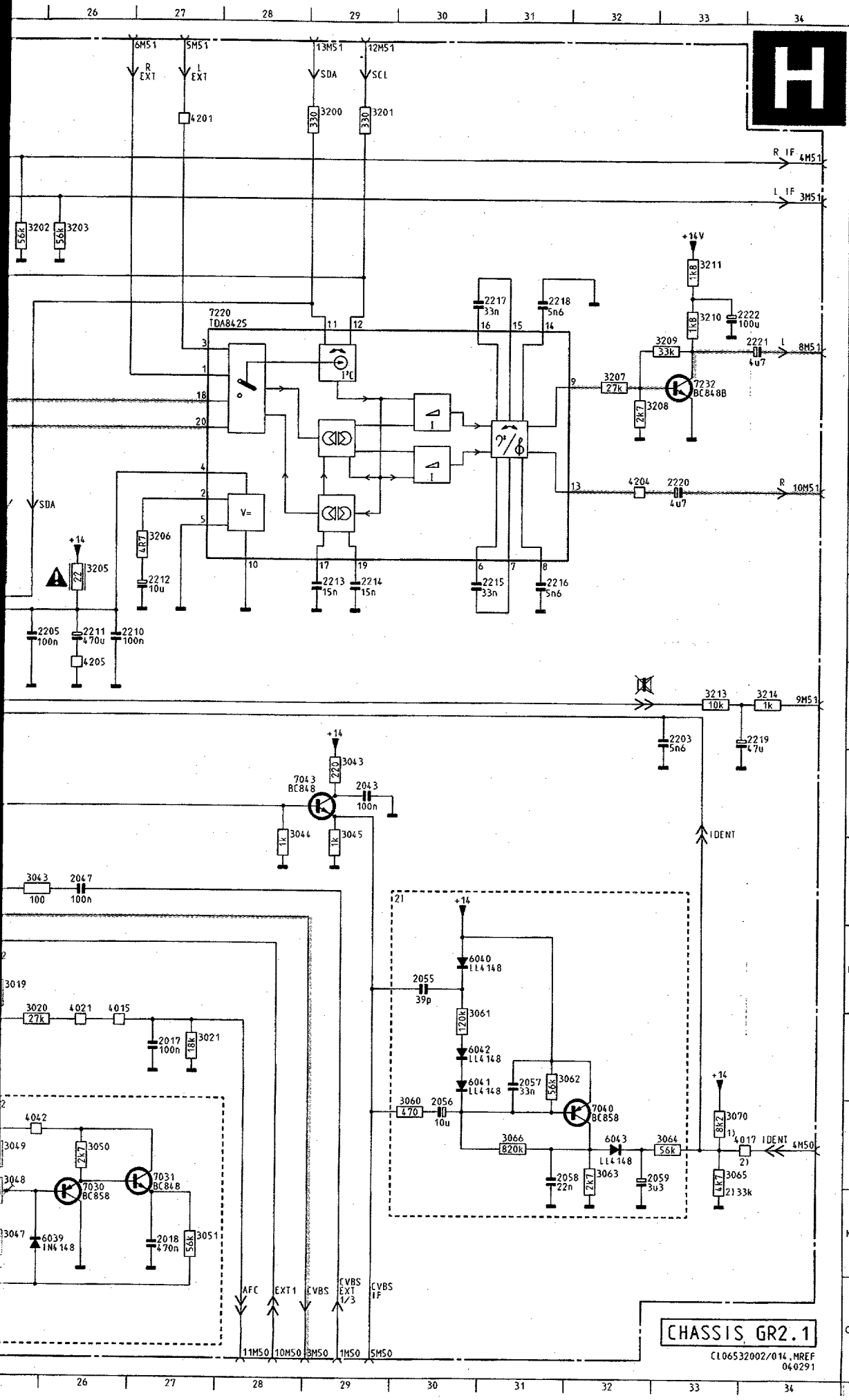

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A	1101	J11	3045	I29	6107	B12
	1102	B11	3046	N25	6108	H14
	1103	B11	3047	N25	6109	G14
	1103	I11	3048	M25	7000	J19
	1200	G19	3049	M25	7030	N26
	2011	K17	3050	M26	7031	N27
	2012	N19	3051	N27	7035	I18
	2013	K19	3052	N24	7040	M32
B	2014	K19	3055	I17	7043	I29
	2015	L17	3056	H17	7100	D 8
	2016	L18	3058	I21	7101	K 8
	2017	L27	3060	M30	7102	B 9
	2018	N27	3061	L30	7102	J 9
	2035	H21	3062	L31	7103	B10
	2036	H21	3063	M32	7103	I10
	2037	H22	3064	M33	7104	B18
C	2038	O20	3065	M33	7200	D19
	2039	N21	3066	M31	7220	D27
	2040	N21	3070	M33	7232	D33
	2041	N21	3100	F 5		
	2042	M22	3101	F 6		
	2043	I29	3102	F 6		
	2044	I20	3103	F 7		
D	2047	J26	3105	F 8		
	2048	O22	3105	M 8		
	2049	I19	3106	C11		
	2050	I17	3106	J11		
	2051	I18	3107	B11		
	2055	K30	3108	B11		
	2056	M30	3108	J11		
	2057	L31	3109	A12		
E	2058	M31	3110	A12		
	2059	M32	3112	C13		
	2100	E 3	3113	B13		
	2101	F 4	3115	C14		
	2102	E 4	3115	K14		
	2104	E 5	3117	G14		
	2105	E 5	3117	N14		
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	2113	G 9	3124	C10		
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	2120	G15	3204	D18		
	2122	B 9	3205	F26		
	2122	I 9	3206	F27		
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I	2124	G10	3209	D33		
	2125	C14	3210	D33		
	2125	J14	3211	C33		
	2126	D10	3213	H33		
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	2202	B18	4040	I18		
	2203	H33	4041	N19		
K	2205	G25	4042	M25		
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	2207	E24	4101	G15		
	2208	D24	4102	I 8		
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	2210	G26	4104	H13		
	2211	G26	4107	N18		
	2212	G27	4108	B13		
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	2214	G29	4204	F32		
	2215	G31	4205	H26		
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M	2220	F33	5037	G22		
	2221	D34	5038	N21		
	2222	D33	5039	G20		
	2404	G21	5042	N23		
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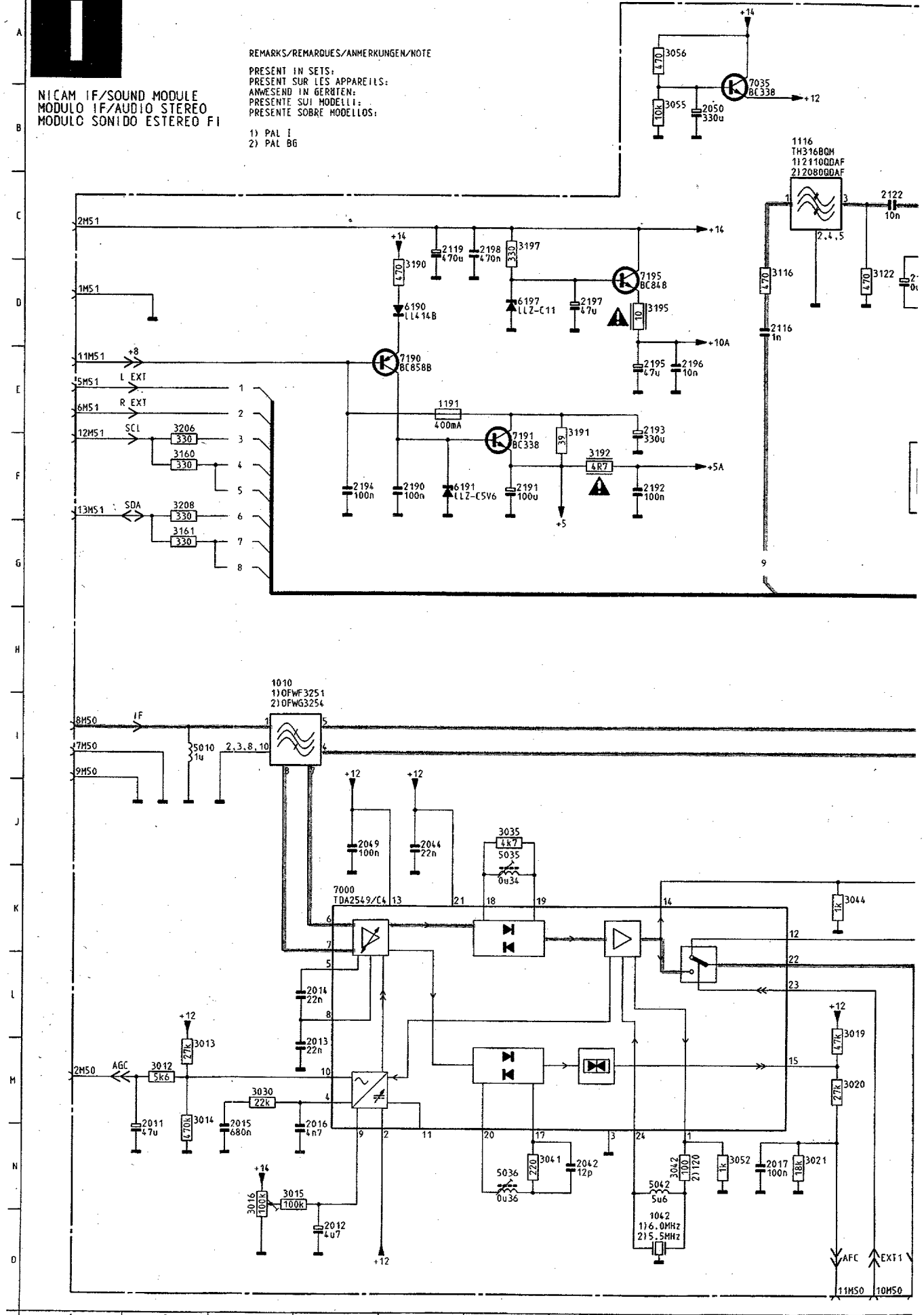
	3013	K18	5101	E 4		
	3014	K18	5102	E 8		
	3015	M19	5103	B14		
N	3016	M18	5103	J14		
	3017	M20	5104	K11		
	3019	K25	5104	C11		
	3020	L25	5105	G14		
	3021	L27	5105	O14		
	3030	L18	6037	G21		
	3031	L19	6038	O21		
	3036	N22	6039	N26		
O	3037	H21	6040	K30		
	3038	N22	6041	L30		
	3039	O22	6042	L30		
	3040	O20	6043	M32		
	3041	M21	6101	F 5		

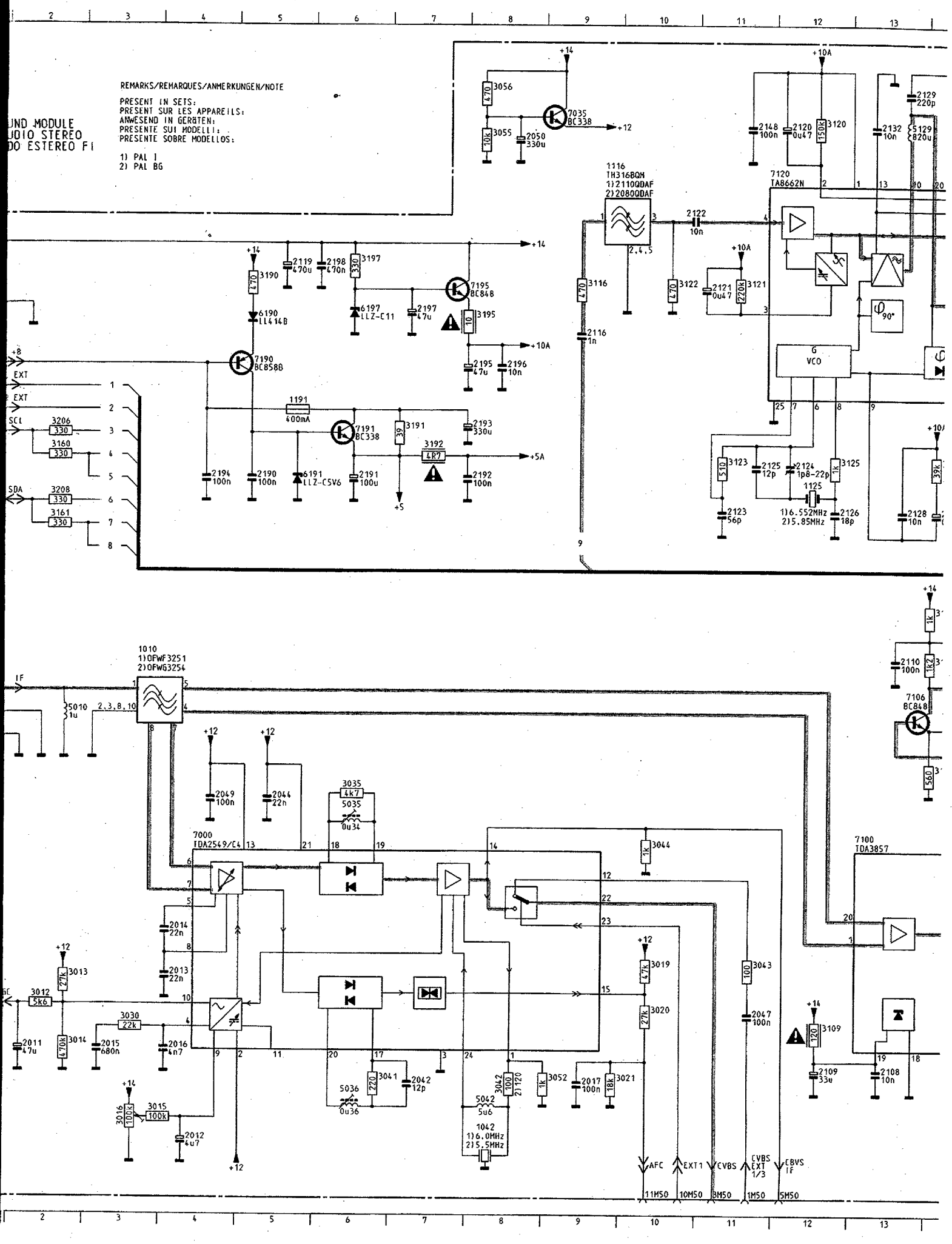
NICAM IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

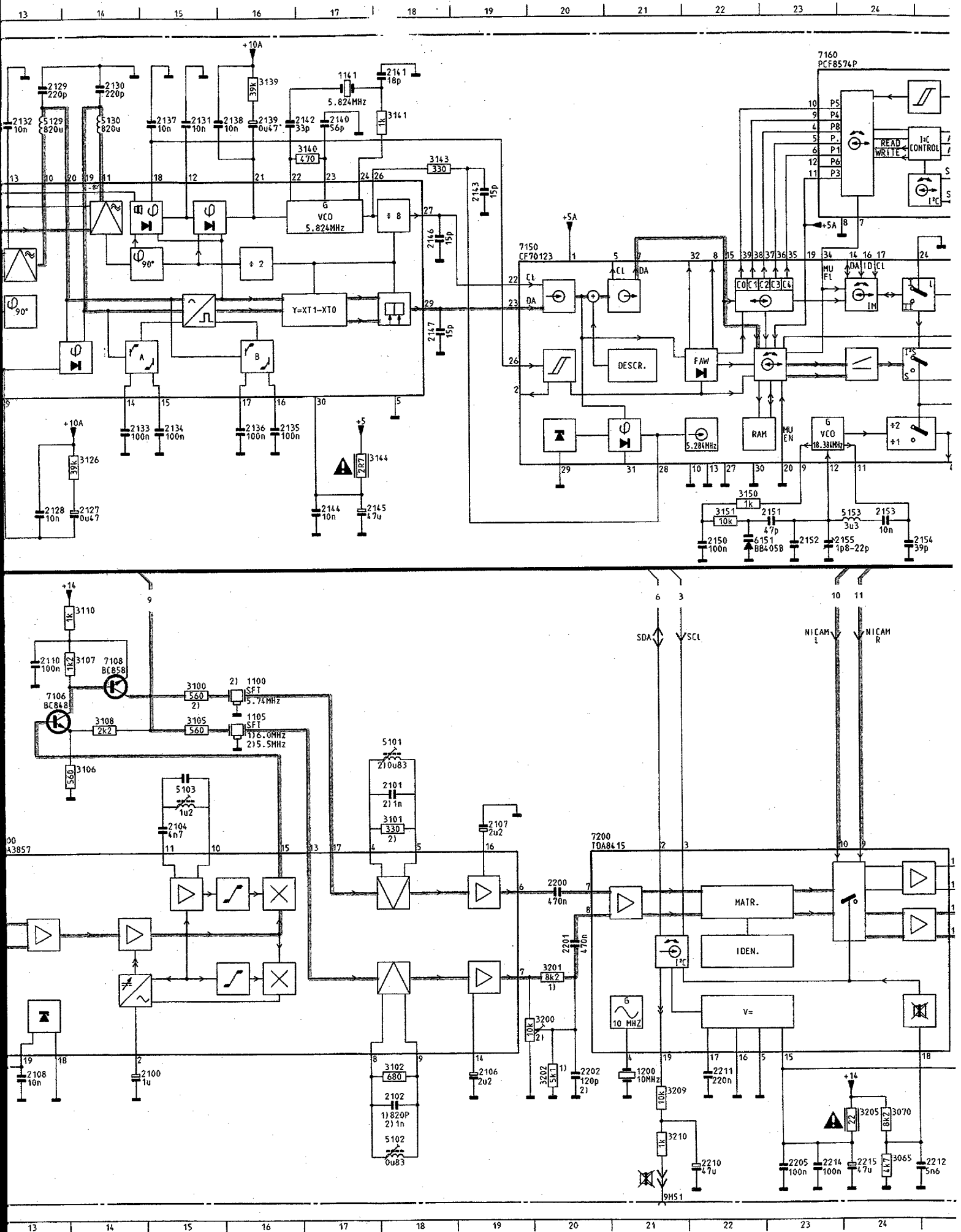
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG

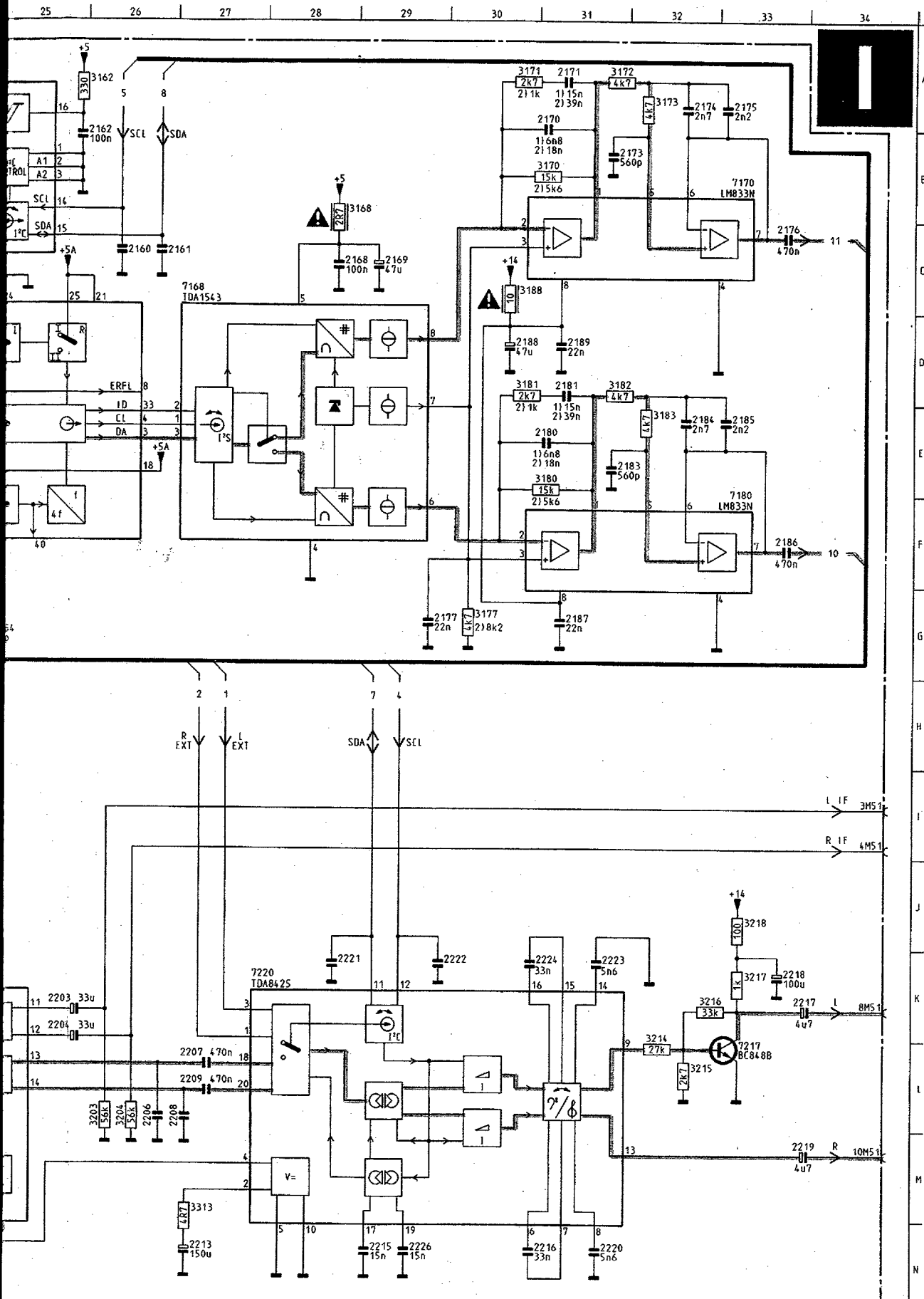



REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) PAL I
2) PAL BG
UND MODULE
UDIO STEREO
DO ESTEREO FI
+14
+10A
+12
+8
+5A
+5
1116
TH316BQM
1) 2110QDAF
2) 2080QDAF
7120
TA8662N
VCO
1191
400mA
7035
BC338
7195
BC848
7190
BC858B
7191
BC338
7106
BC848
6190
LL414B
6191
LLZ-C5V6
6197
LLZ-C11
1010
1) OFWF3251
2) OFWG3254
7000
TDA2549/C4
7100
TDA3857
1042
1) 6.0MHz
2) 5.5MHz
1125
1) 6.552MHz
2) 5.85MHz
EXT
EXT
SCL
SDA
IF
AFC
EXT1
CVBS
CVBS EXT 1/3
CVBS IF
11MSO
10MSO
8MSO
1MSO
5MSO

NICAM IF/sound module / NICAM ZF/Tonmodul /



Module FI/son NICAM



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	1105	I 16	2221	K28
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	1125	F12	2223	K31
	1141	A17	2224	K31
	1191	E 5	2226	N29
	1200	N21	3012	M 2
	2011	N 2	3013	M 2
	2012	O 4	3014	M 2
	2013	M 4	3015	N 4
B	2014	L 4	3016	N 3
	2015	N 3	3019	L10
	2016	N 4	3020	M10
	2017	N 9	3021	N 1
	2042	N 7	3030	M 3
	2044	J 5	3035	J 6
	2047	M11	3041	N 6
	2049	J 4	3042	N 8
C	2050	B 8	3043	L11
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	2101	J18	3052	N 9
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	2104	K15	3056	A 8
	2106	N19	3065	O24
	2107	K19	3070	N24
D	2108	N13	3100	I15
	2109	N12	3101	K18
	2110	I 13	3102	N18
	2116	D 9	3105	I15
	2119	C 5	3106	J14
	2120	B12	3107	I14
	2121	D11	3108	I14
	2122	C10	3109	M12
E	2123	G11	3110	H14
	2124	F12	3116	D 9
	2125	F11	3120	A12
	2126	G12	3121	O11
	2127	G14	3122	D10
	2128	G13	3123	F11
	2129	A13	3125	F12
F	2130	A14	3126	F14
	2131	B15	3139	A16
	2132	B13	3140	B17
	2133	F14	3141	A18
	2134	F15	3143	B18
	2135	F16	3144	F17
	2136	F16	3150	F22
	2137	B15	3151	G22
G	2138	B16	3160	F 2
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	2141	A18	3168	B28
	2142	B17	3170	B31
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	2144	G17	3172	A31
	2145	G17	3173	A32
H	2146	C18	3177	G30
	2147	D18	3180	E31
	2148	B11	3181	D30
	2150	G22	3182	D31
	2151	G23	3183	E32
	2152	G23	3188	C30
	2153	G24	3190	D 5
I	2154	G24	3191	E 7
	2155	G23	3192	F 7
	2160	C26	3195	D 8
	2161	C26	3197	C 6
	2162	B26	3200	M20
	2168	C28	3201	M20
	2169	C29	3202	N20
J	2170	A31	3203	L26
	2171	A31	3204	L26
	2173	B31	3205	N24
	2174	A32	3206	F 2
	2175	A33	3208	F 2
	2176	C33	3209	N21
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	2180	E31	3214	L32
K	2181	D31	3215	L32
	2183	E31	3216	K32
	2184	E32	3217	K33
	2185	E33	3218	J33
	2186	F33	3313	M27
	2187	G31	5010	I 2
	2188	D30	5035	J 6
	2189	D31	5036	N 6
L	2190	F 5	5042	N 8
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N	2206	L26	7108	I14
	2207	L27	7120	B11
	2208	L27	7150	C19
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	2213	N27	7190	E 5
O	2214	O23	7191	F 6
	2215	O24	7195	D 8
	2215	N29	7200	K20
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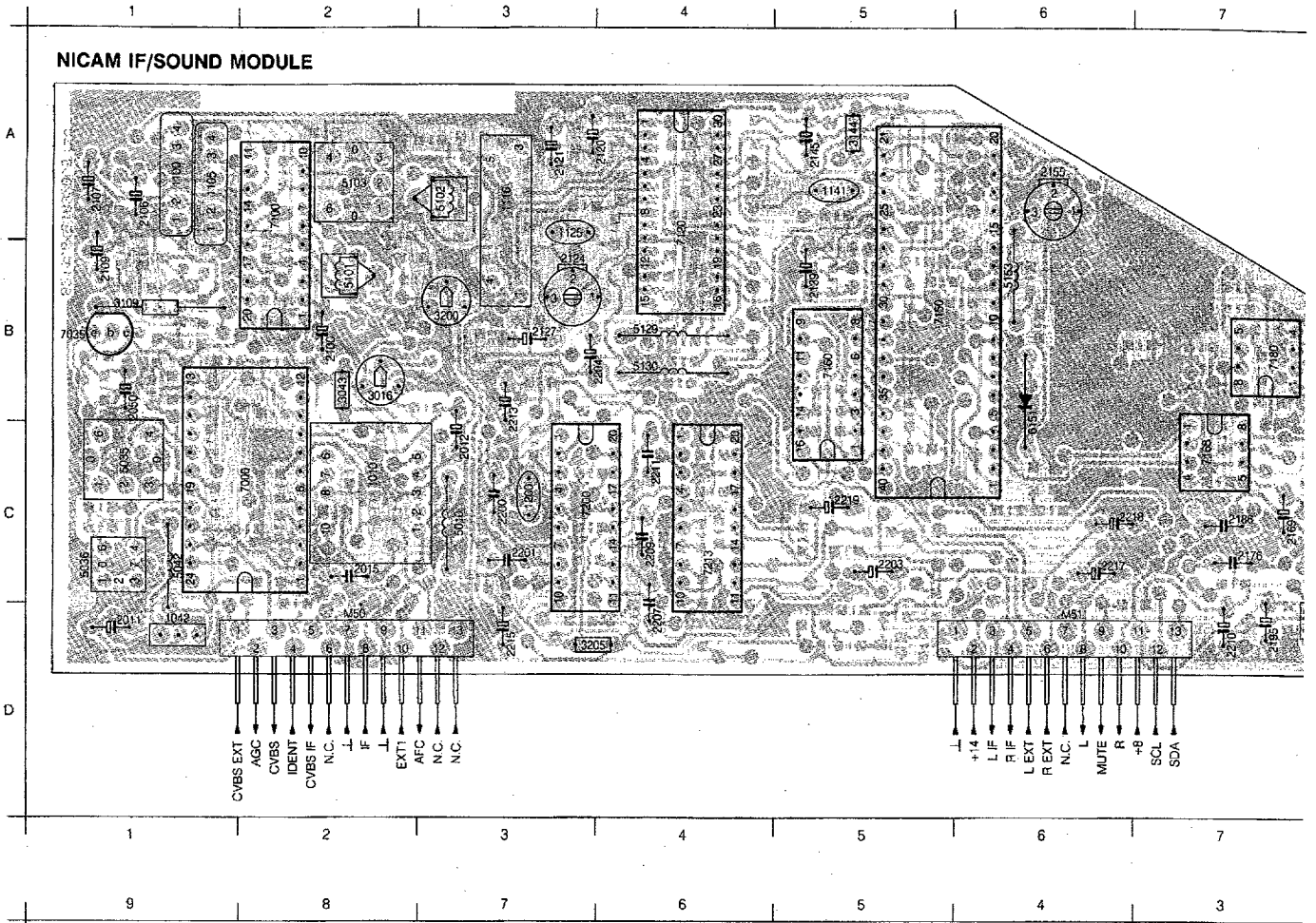
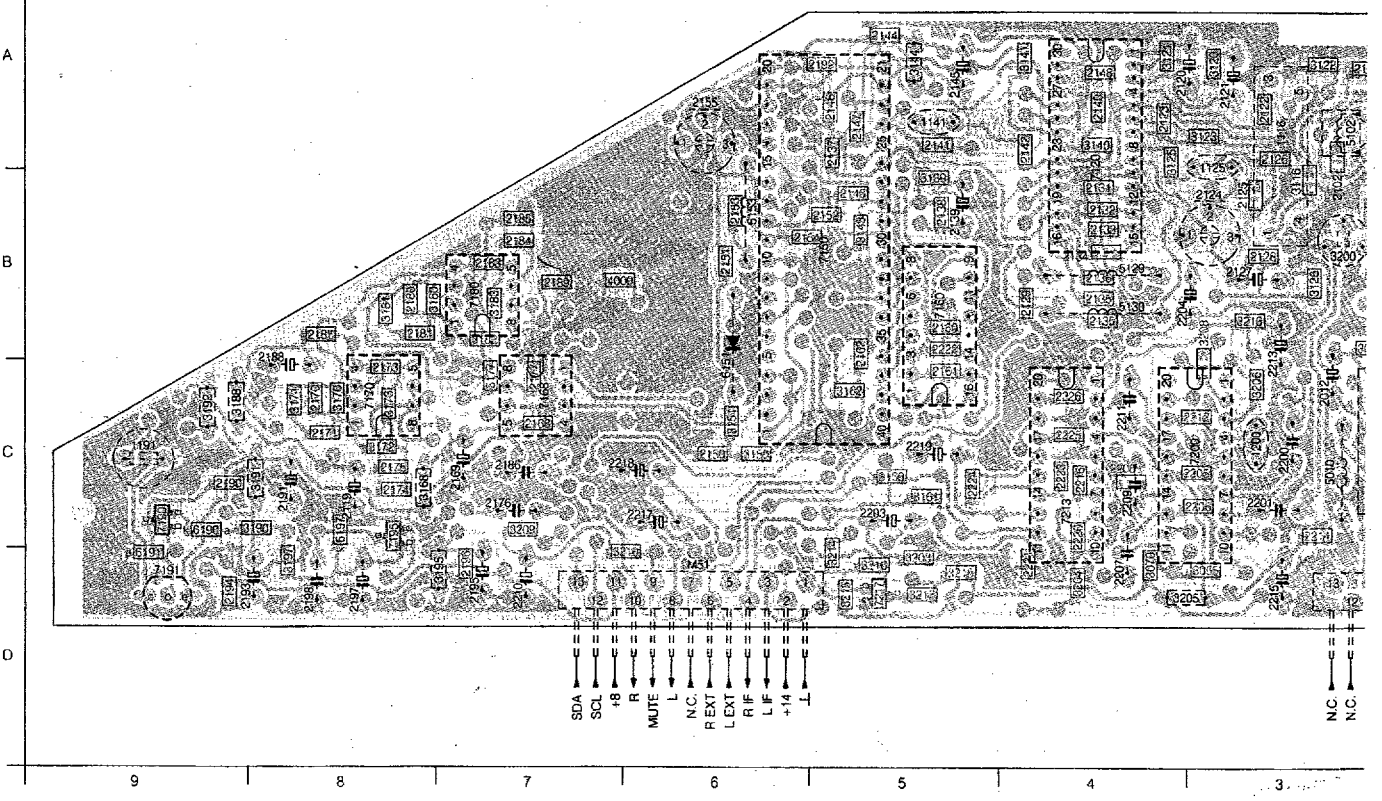
	2217	K34	7220	K27

NICAM IF/sound module / NICAM ZF/Tonmodul /

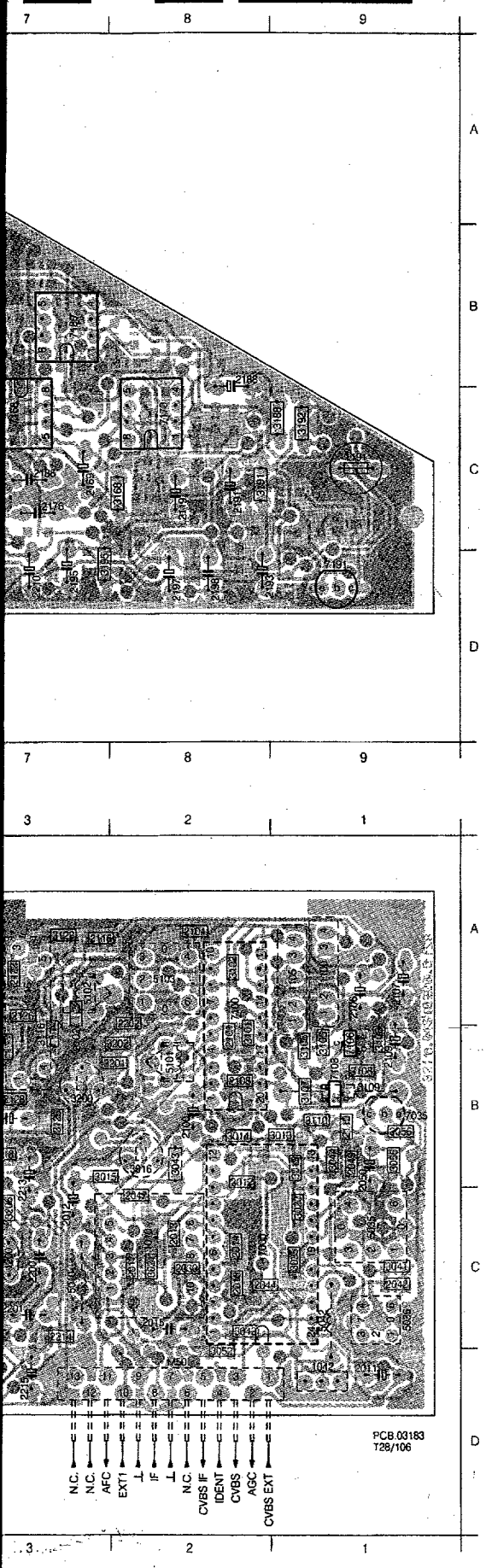
NICAM IF/SOUND MODULE



NICAM IF/SOUND MODULE



Module FI/son NICAM



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M51	D6	3016	B2
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1100	A1	3021	C2
1105	A1	3030	C2
1116	A3	3035	C1
1125	A3	3041	C1
1141	A5	3042	C2
1191	C8	3043	B2
1200	C3	3044	B1
2011	D1	3052	D2
2012	C3	3055	B1
2013	C2	3056	B1
2014	C2	3065	D3
2015	C2	3070	D4
2016	C2	3100	B1
2017	C2	3101	B2
2042	C1	3102	A2
2044	C1	3105	B1
2047	C2	3106	B1
2049	B1	3107	B1
2050	B1	3108	B1
2100	B2	3109	B1
2101	B2	3110	B1
2102	B3	3116	B3
2104	A2	3120	A3
2106	A1	3121	A4
2107	A1	3122	A3
2108	B2	3123	A3
2109	B1	3125	B4
2110	B1	3126	B3
2116	A2	3139	B5
2119	C8	3140	A4
2120	A4	3141	A4
2121	A3	3143	B5
2122	A3	3144	A5
2123	A4	3150	C6
2124	B3	3151	C6
2125	B3	3160	C5
2126	A3	3161	C5
2127	B3	3162	C5
2128	B3	3168	C8
2129	B4	3170	C8
2130	B4	3171	C8
2131	B4	3172	C8
2132	B4	3173	C8
2133	B4	3177	C7
2134	B4	3180	B8
2135	B4	3181	B8
2136	B4	3182	B7
2137	A5	3183	B7
2138	B5	3186	C9
2139	B5	3190	C8
2140	A4	3191	C8
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2144	A5	3200	B3
2145	A5	3201	B2
2146	A5	3202	B2
2147	A5	3203	D5
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2151	B6	3206	C3
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2169	C7	3218	D5
2170	C8	4000	B6
2171	C8	5010	C3
2173	C8	5035	C1
2174	C8	5036	C1
2175	C8	5042	C1
2176	C7	5101	B2
2177	C7	5102	A3
2180	B8	5103	A2
2181	B8	5129	B4
2183	B7	5130	B4
2184	B7	5153	B6
2185	B7	6151	C6
2186	C7	6190	C9
2187	B8	6191	D9
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2191	C8	7100	A2
2192	A5	7106	B1
2193	D9	7108	B1
2194	D9	7120	B4
2195	D7	7150	B5
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2197	D8	7168	C7
2198	D8	7170	C8
2200	C3	7180	B7
2201	C3	7190	C9
2202	A2	7191	D9
2203	C5	7195	C8
2204	B4	7200	C3
2205	C3	7213	C4
2206	C3	7217	D5
2207	D4		
2208	C4		
2209	C4		
2210	D7		
2211	C4		
2212	C3		
2213	C3		
2214	C3		
2215	D3		
2216	C4		
2217	C6		
2218	C6		
2219	C5		
2220	C4		
2221	D4		
2222	B5		
2223	C4		
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2226	C4		
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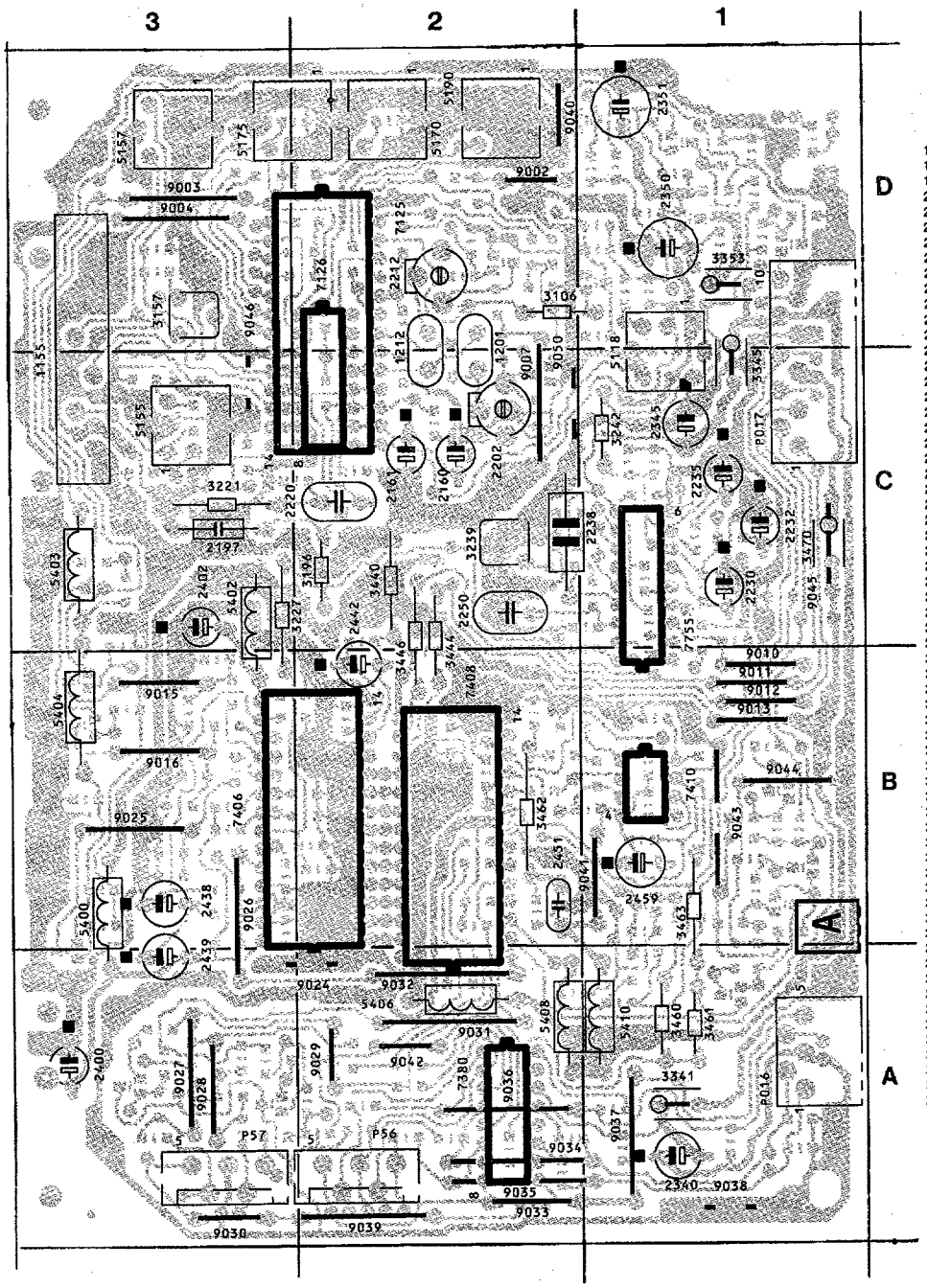
3014	B2		

PIP module / PIP-Modul / Module PIP



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2105 D1
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2119 D1
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2158 D3
2160 C2
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2162 C3
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2172 D2
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2189 D2
2196 C2
2197 C3
2201 D2
2202 C2
2211 D2
2212 D2
2220 C2
2222 C2
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2230 C1
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2234 C1
2235 C1
2238 C2
2239 C1
2250 C2
2251 C1
2255 C1
2260 C1
2270 C2
2330 B1
2333 B1
2340 A1
2345 C1
2350 D1
2351 D1
2380 A2
2381 A2
2382 A2
2383 A2
2384 A2
2385 A2
2390 A1
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2395 A3
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5403 C3
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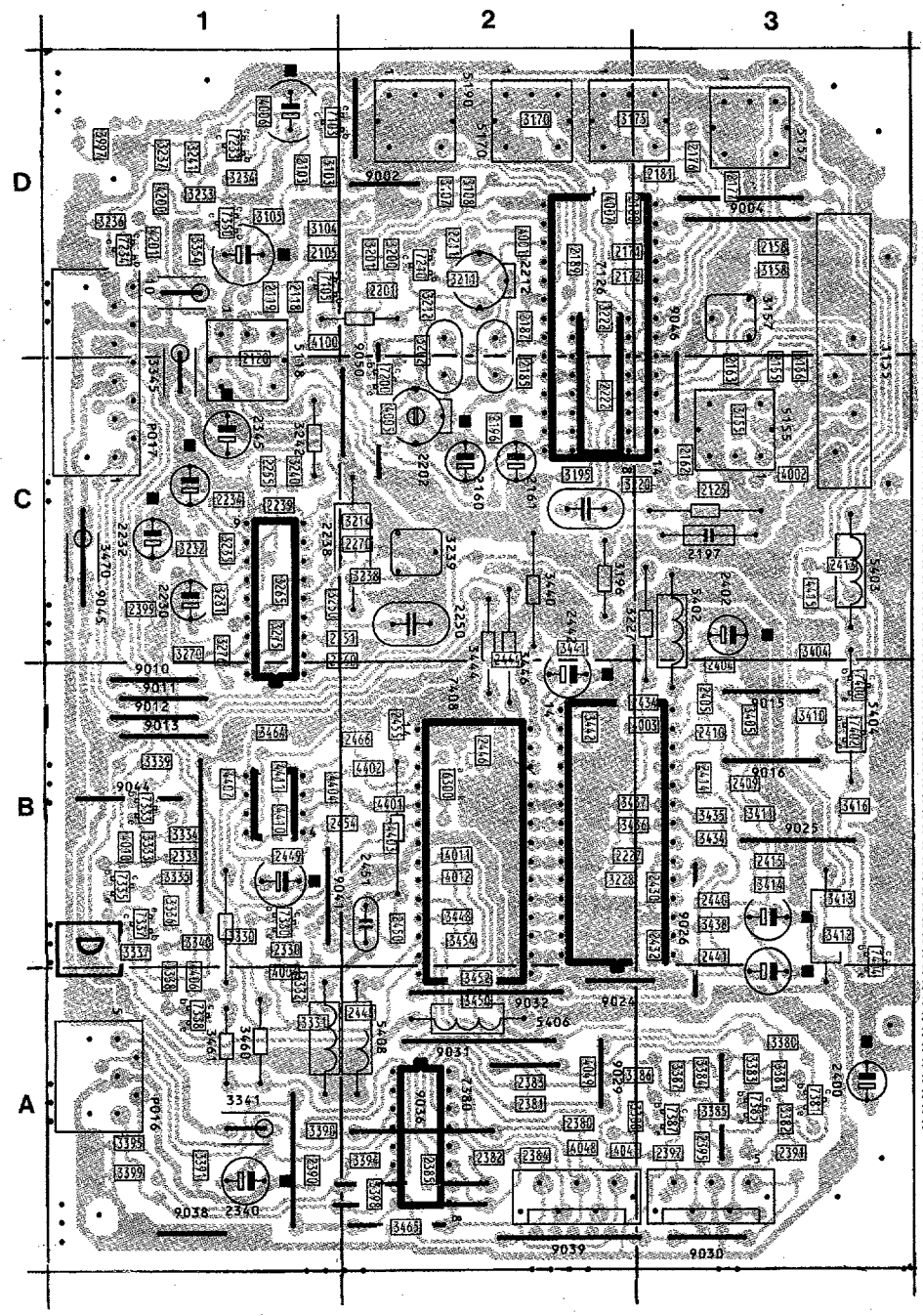
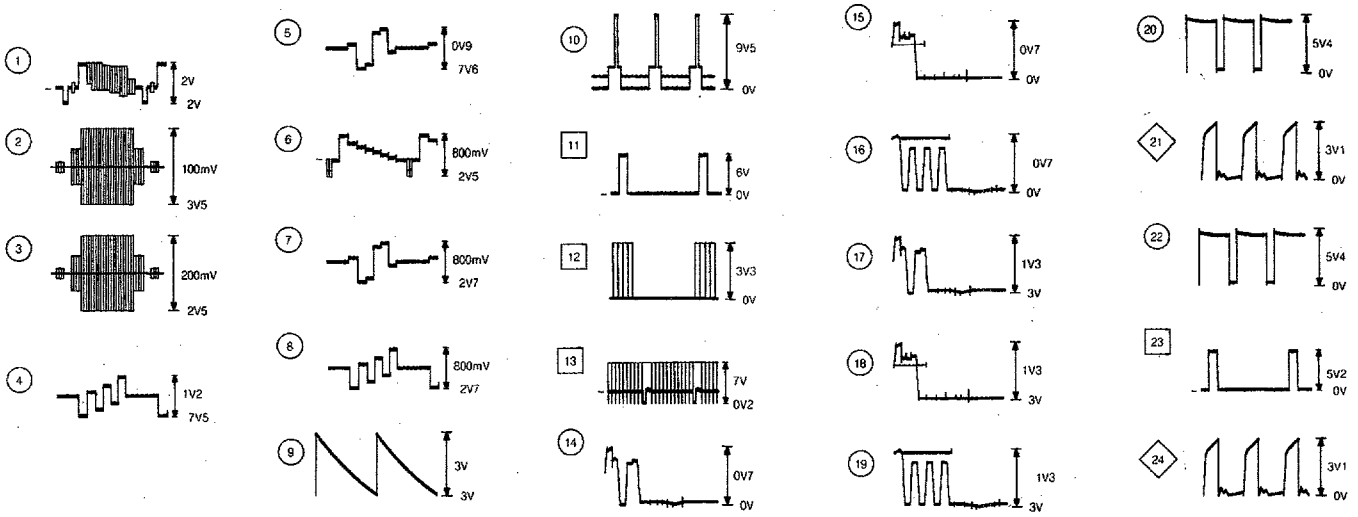
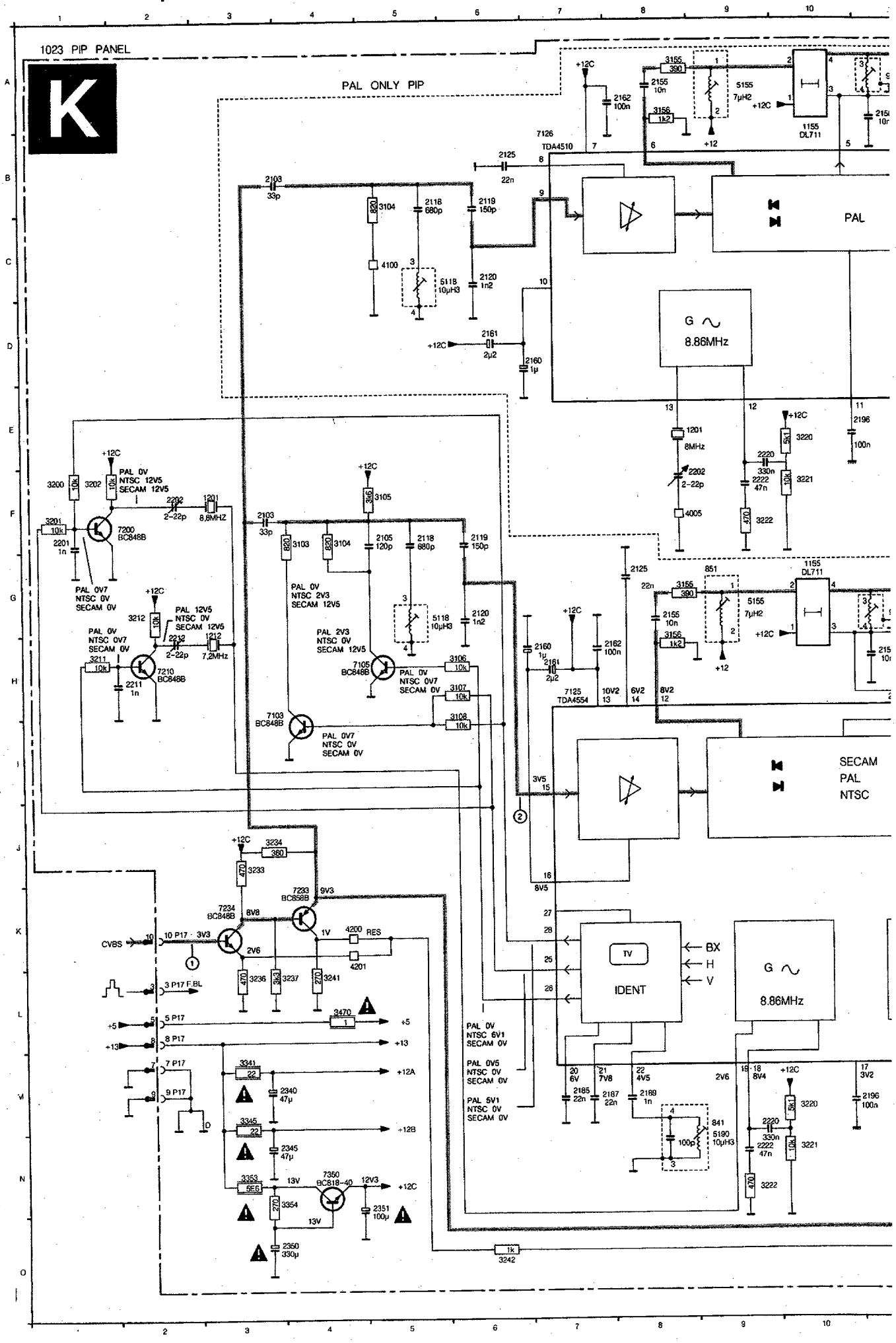
7105 D1
7125 D3
7126 D2
7200 C2
7210 D2
7233 D1
7234 D1
7330 B1
7333 B1
7335 B1
7337 B1
7338 A1
7350 D1
7380 A2
7381 A3
7385 A3
7387 A3
7400 B3
7402 B3
7404 B3
7406 B2
7408 A2

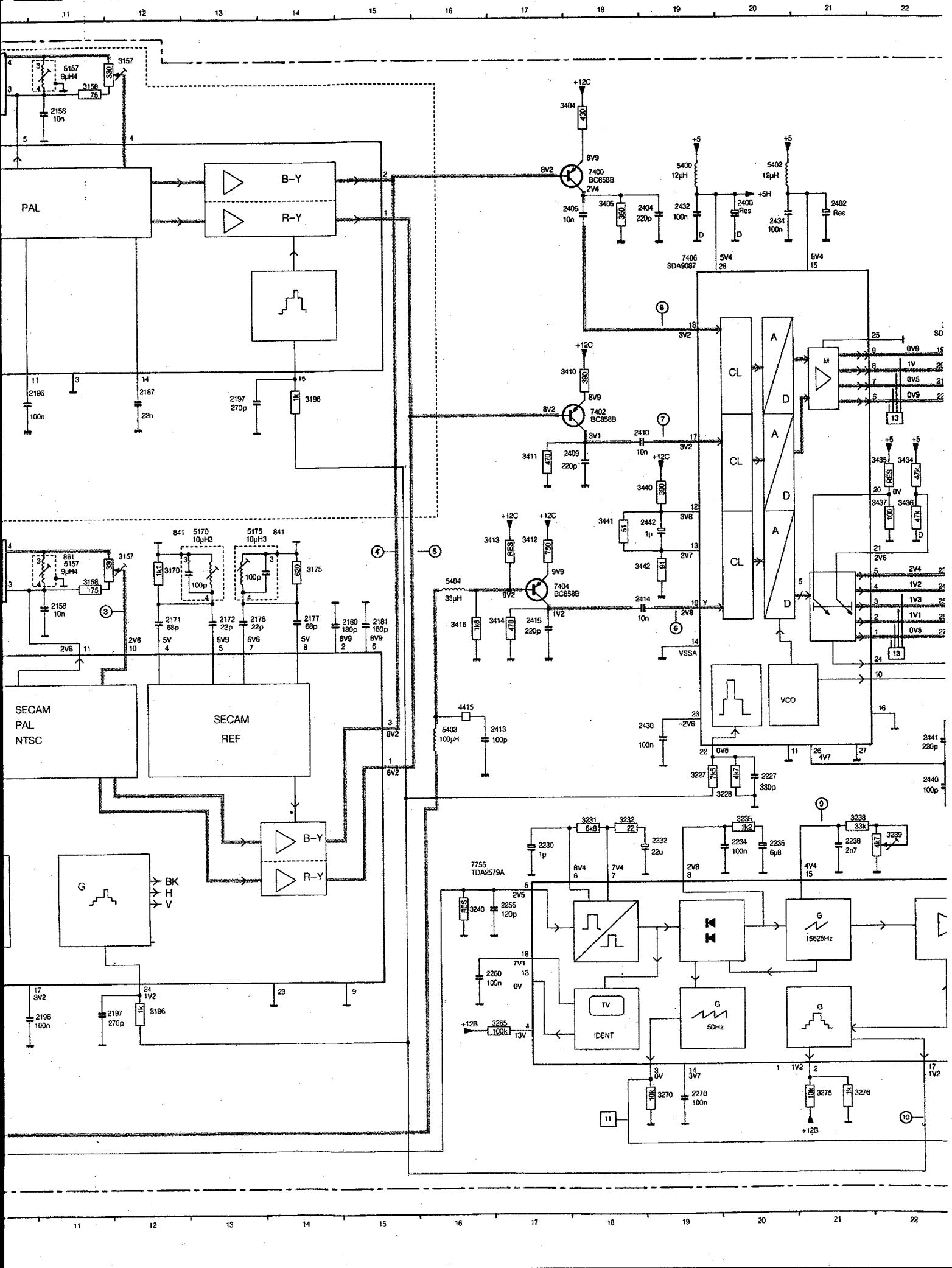


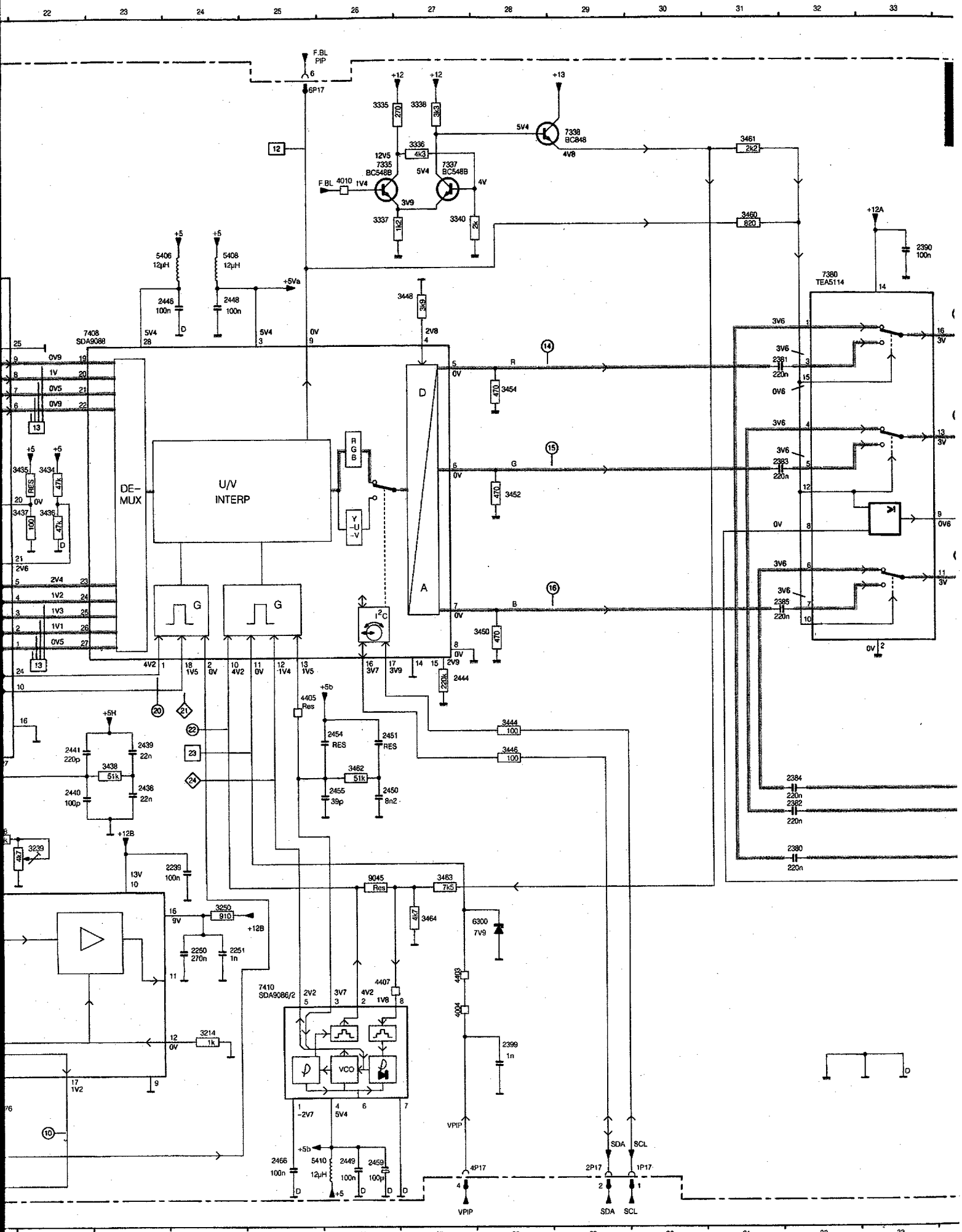
1155 C3
1201 D2
1212 D2
2103 D1
2105 D1
2118 D1
2119 D1
2120 D1
2125 C3
2155 C3
2158 D3
2160 C2
2161 C2
2162 C3
2163 C3
2171 D2
2172 D2
2176 D3
2177 D3
2180 D2
2181 D3
2185 C2
2187 D2
2189 D2
2196 C2
2197 C3
2201 D2
2202 C2
2211 D2
2212 D2
2220 C2
2222 C2
2227 B2
2230 C1
2232 C1
2234 C1
2235 C1
2238 C2
2239 C1
2250 C2
2251 C1
2255 C1
2260 C1
2270 C2
2330 B1
2333 B1
2340 A1
2345 C1
2350 D1
2351 D1
2380 A2
2381 A2
2382 A2
2383 A2
2384 A2
2385 A2
2390 A1
2391 A3
2395 A3
2397 A3
2399 C1
2400 A3
2402 C3
2404 B3
2405 B3
2409 B3
2410 B3
2413 C3
2414 B3
2415 B3
2430 B3
2432 B3
2434 B2
2438 B3
2439 A3
2440 B3
2441 B3
2442 B2
2444 C2
2446 B2
2448 A2
2449 B1
2450 B2
2451 B2
2454 B1
2455 B2
2459 B1
2466 B2
3103 D1
3104 D1
3105 D1
3106 D2
3107 D2
3108 D2
3155 C3
3156 C3
3157 D3
3158 D3
3170 D2
3175 D2
3195 C2
3196 C2
3200 D2
3201 D2
3202 D2
3211 D2
3212 D2
3214 C2
3220 C2
3221 C3
3222 D2
3227 C3
3228 B2
3231 C1
3232 C1
3233 D1
3234 D1
3235 C1
3236 D1
3237 D1
3238 C2
3239 C2
3240 C1
3241 D1
3242 C1
3250 C1
3265 C1
3270 C1
3275 C1
3276 C1
3330 B1
3331 A1
3332 A1
3333 B1
3334 B1
3335 B1
3336 B1
3337 B1
3338 A1
3339 B1
3340 B1
3341 A1
3345 C1
3353 D1
3354 D1
3380 A3
3381 A3
3382 A3
3383 A3
3384 A3
3385 A3
3386 A2
3387 A3
3388 A2
3390 A1
3391 A1
3394 A2
3395 A1
3398 A2
3399 A1
3404 C3
3405 B3
3410 B3
3411 B3
3412 B3
3413 B3
3414 B3
3416 B3
3434 B3
3435 B3
3436 B2
3437 B2
3438 B3
3440 C2
3441 C2
3442 B2
3444 C2
3446 C2
3448 B2
3450 A2
3452 A2
3454 B2
3460 A1
3461 A1
3462 B2
3463 B1
3464 B1
3465 A2
3470 C1
3997 D1
4001 D2
4002 C3
4003 B2
4004 A1
4005 C2
4006 D1
4007 D2
4010 B1
4011 B2
4012 B2
4047 A2
4048 A2
4049 A2
4100 D1
4200 D1
4201 D1
4401 B2
4402 B2
4403 B2
4404 B1
4405 A1
4407 B1
4410 B1
4411 B1
4415 C3
5118 D1
5155 C3
5157 D3
5170 D2
5175 D2
5190 D2
5400 B3
5402 C3
5403 C3
5404 B3
5405 A2
5408 A2
5410 A1
6300 B2
7103 D1
7105 D1
7125 D3
7126 D2
7200 C2
7210 D2
7233 D1
7234 D1
7330 B1
7333 B1
7335 B1
7337 B1
7338 A1
7350 D1
7380 A2
7381 A3
7385 A3
7387 A3
7400 B3
7402 B3
7404 B3
7406 B2
7408 A2
7410 B1
7755 B1
9002 D2
9003 D3
9004 D3
9007 C2
9010 B1
9011 B1
9012 B1
9013 B1
9015 B3
9016 B3
9024 A2
9025 B3
9026 B3
9027 A3
9028 A3
9029 A2
9030 A3
9031 A2
9032 A2
9033 A2
9034 A2
9035 A2
9036 A2
9037 A1
9038 A1
9039 A2
9040 D2
9041 B1
9042 A2
9043 B1
9044 B1
9045 C1
9046 C3
9050 C2
P016 A1
P017 C1
P56 A2
P57 A3

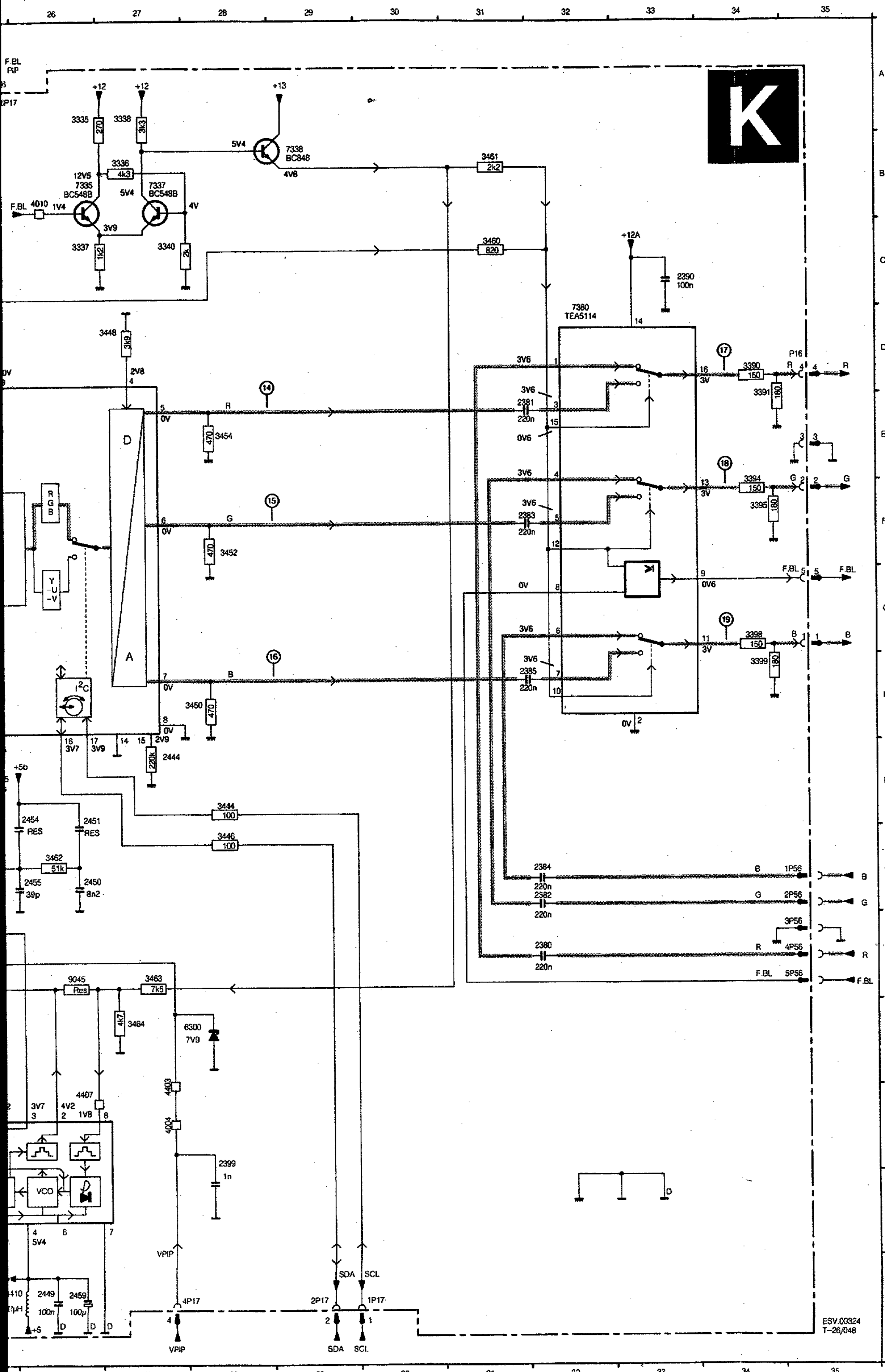


PIP module / PIP-Modul / Module PIP




PAL
B-Y
R-Y
SECAM
PAL
NTSC
SECAM
REF
B-Y
R-Y
G
BK
H
V
7400
BC858B
7402
BC858B
7404
BC858B
7406
SDA9087
7755
TDA2579A
CL
CL
CL
A
D
VCO
M
TV
IDENT
G
15625Hz
G
50Hz
G
VSSA
+12C
+5
+5H
SD


F.BL PIP
6P17
+12
+13
5V4
7338 BC848
4V8
3461 2k2
3460 820
12V5
7335 BC548B
7337 BC548B
F.BL 4010 1V4
3V9
4V
3335 270
3338 3k3
3336 4k3
3337 1k2
3340 2k
+12A
2390 100n
7380 TEA5114
5406 12µH
5408 12µH
+5Va
2446 100n
2448 100n
3448 3k9
2V8
7408 SDA9088
5V4
0V
DE-MUX
U/V INTERP
R G B
Y -U -V
D
A
G
I²C
3454 470
3452 470
3450 470
3435 RES
3434 47k
3437 100
3436 47k
2V6
3V6
0V6
2381 220n
2383 220n
2385 220n
2384 220n
2382 220n
2380 220n
4405 Res
2454 RES
2451 RES
3462 51k
2455 39p
2450 8n2
3444 100
3446 100
2441 220p
2439 22n
3438 51k
2440 100p
2436 22n
+5H
+12B
3239 4k7
2239 100n
13V
9045 Res
3463 7k5
3464 4k7
6300 7V9
3250 910
2250 270n
2251 1n
4403
4404
2399 1n
7410 SDA9086/2
VCO
3214 1k
4407
2466 100n
5410 12µH
2449 100n
2459 100p
VPIP
SDA
SCL
4P17
2P17
1P17



1155	B10
1155	G10
1201	E9
1201	F3
1212	H3
2103	B4
2103	F3
2105	F5
2118	B5
2118	F5
2119	B6
2119	F6
2120	C6
2120	G6
2125	B6
2125	G8
2155	A8
2155	G8
2158	A11
2158	H11
2160	D7
2160	H7
2161	D6
2161	H7
2162	A8
2162	H8
2171	H12
2172	H13
2176	H13
2177	H14
2180	H15
2181	H15
2185	M7
2187	E12
2187	M7
2189	M8
2196	E11
2196	M11
2197	E13
2197	M12
2201	F1
2202	F2
2202	F9
2211	H2
2212	H2
2220	E9
2220	M9
2222	F9
2222	N9
2227	J20
2230	K17
2232	K19
2234	K20
2235	K20
2238	K21
2239	K24
2250	L24
2251	L24
2255	L17
2260	M16
2270	N19
2340	M3
2345	N3
2350	O3
2351	N5
2380	K32
2381	E32
2382	J32
2383	F32
2384	J32
2385	H32
2390	C33
2399	M28
2400	C20
2402	C21
2404	C19
2405	C18
2409	F18
2410	F19
2413	I 17
2414	H19
2415	H17
2430	I 19
2432	C19
2434	C20
2438	J23
2439	J23
2440	J22
2441	J22
2442	G19
2444	I 27
2446	O24
2448	O24
2449	O26
2450	J26
2451	I 26
2454	I 26
2455	J26
2459	O26
2466	O25
3103	F4
3104	B5
3104	F4
3105	F5
3106	H6
3107	H6
3108	I 6
3155	A8
3155	G8
3156	A8
3156	H8
3157	A12
3157	G12
3158	A11
3158	G11
3170	G12
3175	G14
3196	E14
3196	M12
3200	F1
3201	F1
3202	F1
3211	H1
3212	G2
3214	M24
3220	E10
3220	M10
3221	F10
3221	N10
3222	F9
3222	N9
3227	J19
3228	J20
3231	K18
3232	K18
3233	J3
3234	J3
3235	K20
3236	L3
3237	L3
3238	K21
3239	K22
3240	L16
3241	L4
3242	O6
3250	L24
3265	M17
3270	N19
3275	N21
3276	N21
3335	A26
3336	B27
3337	C26
3338	A27
3340	C27
3341	M3
3345	M3
3353	N3
3354	N3
3390	D34
3391	E34
3394	F34
3395	F34
3398	G34
3399	H34
3404	A18
3405	C18
3410	E18
3411	F17
3412	G17
3413	G17
3414	H17
3416	H16
3434	F22
3435	F22
3436	G22
3437	G22
3438	J23
3440	F19
3441	G18
3442	G19
3444	I 28
3446	J28
3448	D27
3450	H28
3452	F28
3454	E28
3460	C31
3461	B31
3462	J26
3463	K27
3464	L27
3470	L4
4004	M27
4005	F9
4010	B26
4100	C5
4200	K4
4201	K4
4403	M27
4405	I 25
4407	M26
4415	I 16
5118	C6
5118	G5
5155	A9
5155	G9
5157	A11
5157	G11
5170	G13
5175	G13
5190	N9
5400	B19
5402	B20
5403	I 16
5404	G16
5406	C24
5408	C24
5410	O25
6300	L28
7103	H4
7105	H5
7125	H7
7126	B7
7200	F2
7210	H2
7233	K4
7234	K3
7335	B26
7337	B27
7338	B29
7350	N4
7380	D32
7400	B18
7402	E18
7404	H17
7406	C19
7408	O23
7410	M25
7755	K16
9045	K26

7.1 CHASSIS GR2.1

Electrical adjustments

Setting conditions

All electrical settings should be made under the following conditions:

* supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
* warming-up time ≈ 10 minutes
* the voltages and oscillograms have been measured with regard to tuner earth.
* measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage
Connect a voltmeter over C2631. Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

1.2 Focusing
This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting
Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

* +153V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

1.4 Horizontal synchronization
Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

1.5 Horizontal centring
Set using potentiometer 3461.

1.6 Picture width
Set using potentiometer 3525.

1.7 Vertical centring
Set using potentiometer 3516.

1.8 Picture height
Set using potentiometer 3504.

1.9 East/West correction
Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306.
Set 5301 to maximum amplitude.
Remove the interconnection.

b. Setting for PAL
Connect a sign
pin 20 of the e
frequency to 4
Connect an osc
Set 5301 to m

1.11 Chroma auxilia
Connect a patt
colour bar patt
(TDA4510) or
Set 2313 so th
practically stop

1.12 SECAM demod (TDA4650)
Connect a patt
black pattern.
1-IC7306. Set
Connect the os
3312 to minim

1.13 White balance
Connect a patt
picture. Switch
and select "WH
Set the value o
"Blue" to 46. I
are required.

1.14 Peak white limi
Switch on the
select "WHITE
Set "WHITE LI
- 43 for blackli
- 53 for non-bl
- 53 for 21" ur

1.15 Cut-off points
Connect a patt
picture. Switch
"CUT OFF".
Set the value o
to 16, and for
futher adjustm

1.16 Options
Switch on the
"OPTION 1" or
Switch the opt
whether the fo
- "PIP" on a P
- "2ND SCAR
euroconnect
- "TELETEXT"
- "SVHS" for
- "MULTI SYS
- "HYPERBAN
to the freque
- "UHF ONLY"
tuned to the
- "NICAM TW
receive NICA
- "SIXTEEN/NI
screen size
for 25"/28"

Electrical adjustments

Setting conditions

All electrical settings should be made under the following conditions:
* supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
* warming-up time ≈ 10 minutes
* the voltages and oscillograms have been measured with regard to tuner earth.
* measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage
Connect a voltmeter over C2631. Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

1.2 Focusing
This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting
Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:
* +153V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

1.4 Horizontal synchronization
Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

1.5 Horizontal centring
Set using potentiometer 3461.

1.6 Picture width
Set using potentiometer 3525.

1.7 Vertical centring
Set using potentiometer 3516.

1.8 Picture height
Set using potentiometer 3504.

1.9 East/West correction
Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306.
Set 5301 to maximum amplitude.
Remove the interconnection.

b. Setting for PAL sets (TDA4510)
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305.
Set 5301 to maximum amplitude.

1.11 Chroma auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)
Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306. Set 5304 to minimum amplitude.
Connect the oscilloscope to pin 3-IC7306. Set 3312 to minimum amplitude.

1.13 White balance
Connect a pattern generator and select a white picture. Switch on the service menu (see section 9 and select "WHITE BALANCE".
Set the value of "Green" to 51, and the Value of "Blue" to 46. In most cases no futher adjustments are required.

1.14 Peak white limit
Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set "WHITE LIMIT" to the value:
- 43 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.15 Cut-off points of the picture tube
Connect a pattern generator and select a black picture. Switch on the service menu and select "CUT OFF".
Set the value of "Red" to 56, and fore "Green" to 16, and for "Blue" to 15. In most cases no futher adjustments are required.

1.16 Options
Switch on the service menu and select "OPTION 1" or "OPTION 2".
Switch the options "ON" and "OFF" according to whether the following options are present:
- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.
- "SIXTEEN/NINE" for switching between normal screen size and wide screen size. (only valid for 25"/28" Black-Line sets).

2. Settings on the IF/sound module

2.1 AFC and the picture demodulator

a. **Setting for multisystem units**

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 33.4 MHz for mono sets or to 33.95 MHz for stereo sets. Modulate (AM) the signal with, for example, 1kHz.
Tune mono sets to VHF1 band at a tuning voltage of approximately 5V at pin 11 of the tuner. The "search" (selection B of the manual installation menu) can be stopped by selecting menu selection C "programme".
Set stereo sets to a tuning frequency of 45 MHz.
Select system France.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.
Then set the frequency of the signal generator to 38.9 MHz. Select system Europe on the set.
AFC: using 5038 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5037 to a maximum (undistorted) signal at pin 22-IC7000.
Adjacent channel suppression (mono sets):
Then set the frequency of the signal generator to 33.4 MHz. Place pin 9-IC7000 at a fixed voltage of +1V using a laboratory supply. Tune the set to the UHF band and select system France.
Set 5005 to a minimum signal at pin 22-IC7000.

b. **Setting for single-system units**

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with, for example, 1kHz.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.

2.2 RF-AGC

If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

2.3 MF-AGC (Multisystem units)

Connect a pattern generator and supply a SECAM-L colour bar signal. Connect an oscilloscope to pin 22-IC7000. Set the amplitude of the video signal with 3048 to 1.7 Vpp for stereo units or to 1.8 Vpp for mono units.

2.4 AM-IF sound filter (Multisystem units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 30.9 MHz. Modulate (AM) the signal with 1kHz, for example. Tune the unit to UHF band and select system France. Connect an oscilloscope to pin 9-IC7100 and set 5100 to minimum amplitude.
Place pin 3-IC7100 on a fixed voltage of +2V using a laboratory supply.
Set the frequency of the generator to 32.4 MHz and set 5101 and 5102 to maximum amplitude.

2.5 IF sound demodulator (stereo and NICAM units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz, for example. Connect an oscilloscope to pin 17-IC7100 (TDA3856) or pin 15-IC7101 (TDA3857) (for non-multi sets) and set 5104 to *minimum amplitude.*

2.6 5.5 MHz or 6.0 MHz FM sound demodulator

Connect a pattern generator and supply a PAL signal with FM mono sound. Set 5105 (mono and stereo units) or 5102 (NICAM units) to maximum sound reproduction.

2.7 5.742 MHz FM sound demodulator (stereo and NICAM units)

Connect a pattern generator and supply a PAL BG signal with two-language sound. Select language II on the unit with the remote control.
Set 5103 (stereo units) or 5101 (NICAM units) to maximum sound reproduction.

2.8 Stereo matrix (stereo and NICAM units)

Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left.
Set 3204 (stereo units) or 3200 (NICAM PAL BG units) to minimum sound reproduction.

2.9 NICAM demodulator (NICAM units)

Connect a pattern generator and supply a PAL signal with NICAM sound. Connect the X-input of the oscilloscope to pin 19-IC7120. Connect the Y-input of the oscilloscope to pin 20-IC7120. Set the oscilloscope to the X-Y position. Set the sensitivity of the oscilloscope to 1V/div AC. Set the X and Y position so that the cross pattern is in the centre of the oscilloscope picture.
Set 2124 on a straight cross pattern (see fig. 7.3).

2.10 "Sample" clock oscillator (NICAM units)

Connect a pattern generator and supply a PAL signal with NICAM sound. Connect an oscilloscope to pin 9-IC7150. Set the sensitivity of the oscilloscope to 1V/div and the time base to 2μs/div.
Set 2155 so that a symmetrical block wave is visible.

3. Adjustment on the teletext decoder

Connect pin 22-IC7830 to earth. Connect a frequency counter to pin 17-IC7830 and set 5803 to 6000 MHz ± 30kHz.
Remove the interconnection.

4. Adjustments on the PIP module

Adjustment conditions
Before making each adjustment, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

4.1 Horizontal synchronization
Do not supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth.
Measure the frequency at pin 17-IC7755 and using 3239 set it to 15.625 Hz ± 25 Hz.
Remove the interconnection.

4.2 Chroma bandpass filter

a. Adjustment for PIP modules with TDA4554
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitude.
Remove the interconnection.

b. Adjustment for PIP modules with TDA4510
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin 9-IC7126.
Set 5118 to maximum amplitude.

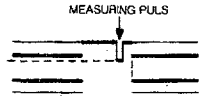
4.3 PAL chroma auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth.
Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554
Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.5 Delay line
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

4.6 SECAM identification for PIP modules with TDA4554
Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Set 5190 to minimum DC level.
Remove the interconnection.

4.7 SECAM demodulators for PIP modules with TDA4554
Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set 5170, but now measure at pin 3-IC7125.
Remove the interconnection.



PRS 06772 T-26/034

Fig. 7.1

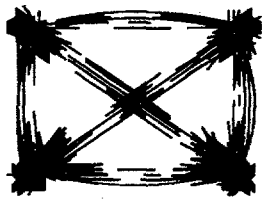


Fig. 7.2

MDA.01468
T28/826

MAIN PANEL

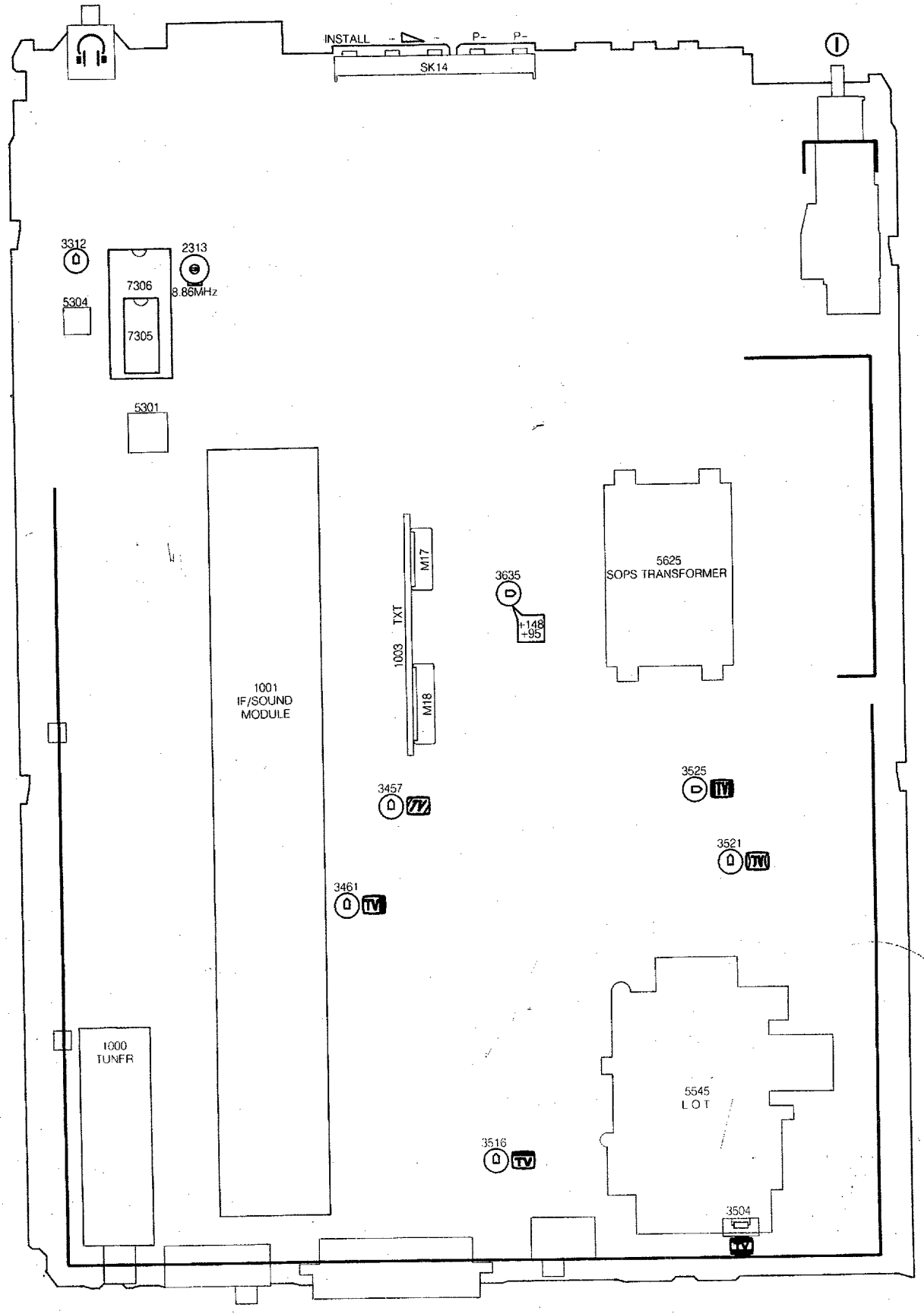
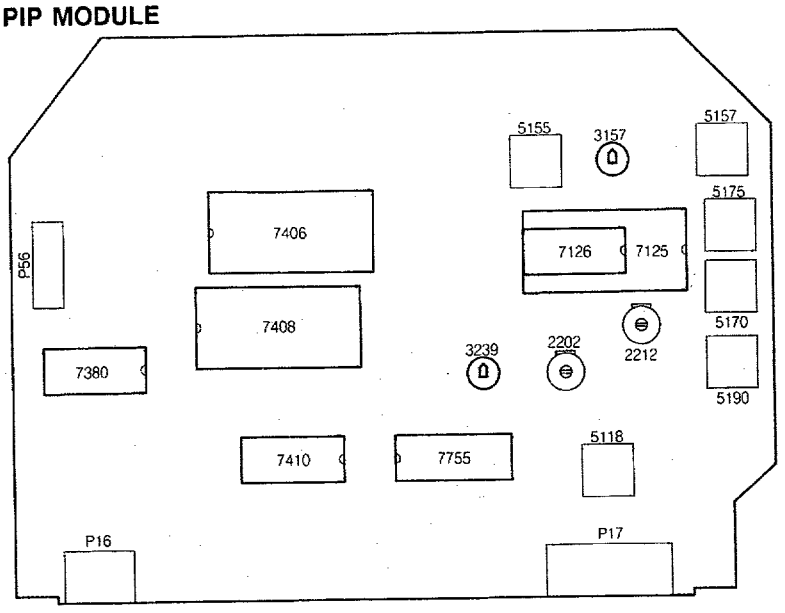
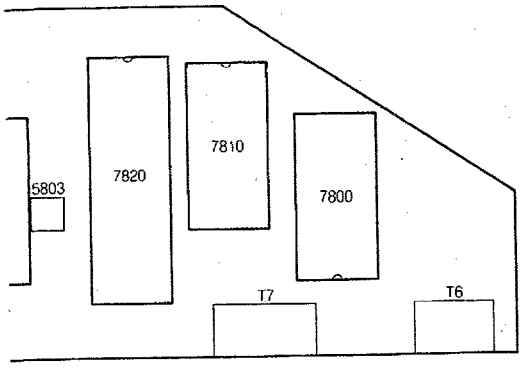


Fig. 7.

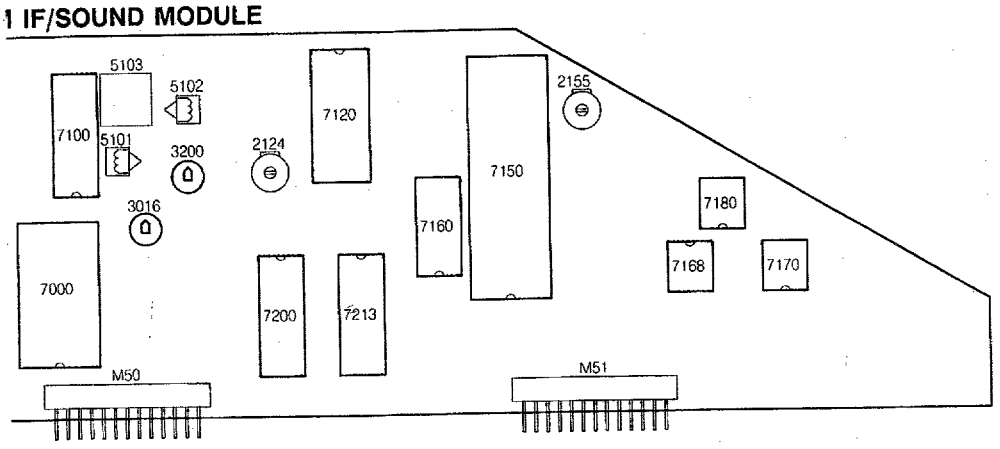
PIP MODULE



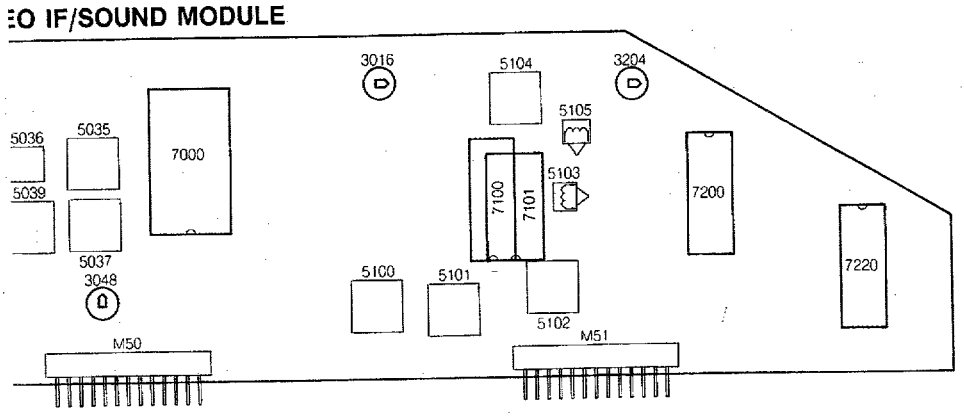
ODULE



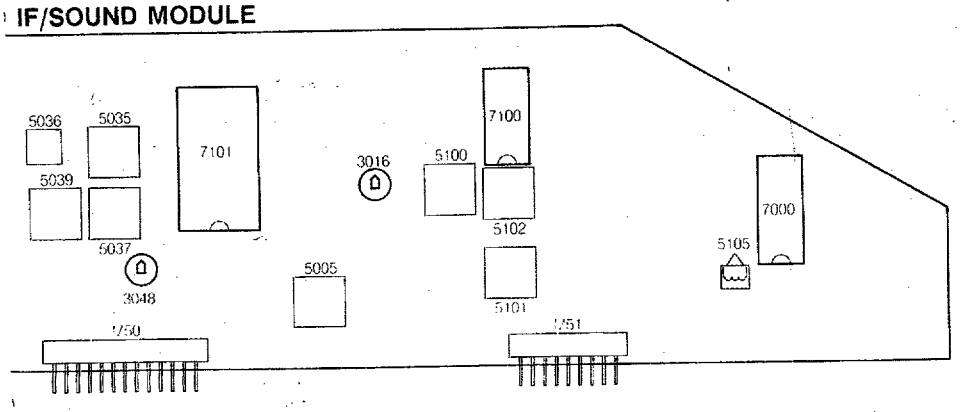
1 IF/SOUND MODULE



EO IF/SOUND MODULE



IF/SOUND MODULE



MDA 02965
128/107

Repair tips

1. Servicing of SMDs (Surface Mounted Devices)

1.1 General cautions on handling and storage

a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.

b. Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.

c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

a. Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:

b. While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).

c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

Caution on removal:

a. When handling the soldering iron, use suitable pressure and be careful.

b. When removing the chip, do not use undue force with the pair of tweezers.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. The chip, once removed, must **never** be reused.

1.3 Attachment of SMDs

a. Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).

b. Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.

b. Keep the SMD's body in contact with the printed board when soldering.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. Soldering should not be done outside the solder land.

e. Soldering flux (of rosin) may be used, but should not be acidic.

f. After soldering, let the SMD cool down gradually at room temperature.

g. The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

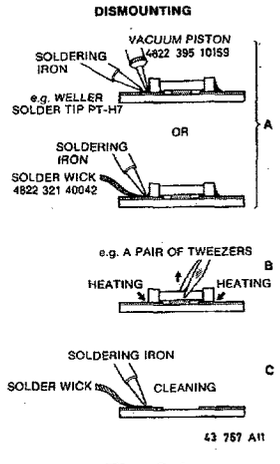


Fig. 8.1

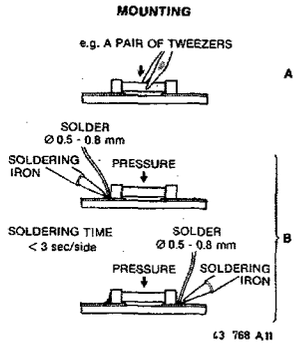


Fig. 8.2

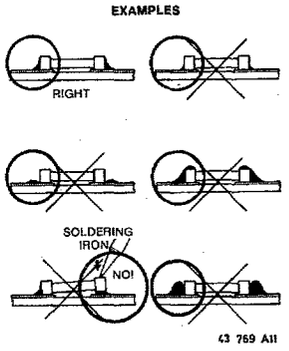


Fig. 8.3

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings.
However, all these values should be checked and adjusted, if necessary.
All options should also be set, the programs installed and personal preference set.

3. Table of error messages

Error indication	Description	Possible fault
OSD: ERR PIP	I^2C fault PIP module	* +5 on PIP module * IC7406
OSD: ERR TXT	I^2C fault TXT module	* +5 on teletext module * IC7800
OSD: ERR NICAM	I^2C fault IC7160 (NICAM units)	* +5 on IF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ERR 8415	I^2C fault IC7200 (stereo and NICAM units)	* +14 on IF/Sound module * IC7200 * IC7220
OSD: ERR 8425	I^2C fault IC7213 (NICAM units) I^2C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ERR EEPROM	I^2C fault IC7710	* IC7710
OSD: ERR TUNER	I^2C fault tuner (stereo and NICAM units)	* Tuner * TS7003
OSD: ERR CHROMA	I^2C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in μP	* IC7708
OSD: ERR BUS	I^2C bus blocked	* C2714, C2715

Directions for use

1. Service-Default-Mode

The GR2.1 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- stereo units are tuned to 475.25 MHz
- mono units are tuned to programme 0
- system:
  * PAL BG, PAL/SECAM BG or PAL I for single system units
  * SECAM L for multisystem units.

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "SER" appears on the screen. The service default mode can only be switched off by switching the unit to standby. If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
  When operating the **install** key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
  The service menu is activated by first pressing the ◿ - key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen. The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control.The values and options set are immediately stored in the EEPROM.

Note 1:
If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.
If the autostore function only does not react, the hotel mode is activated.

Note 2:
If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, the "MULTI SYSTEM" option can be temporarily switched off.

2. Hotel mode

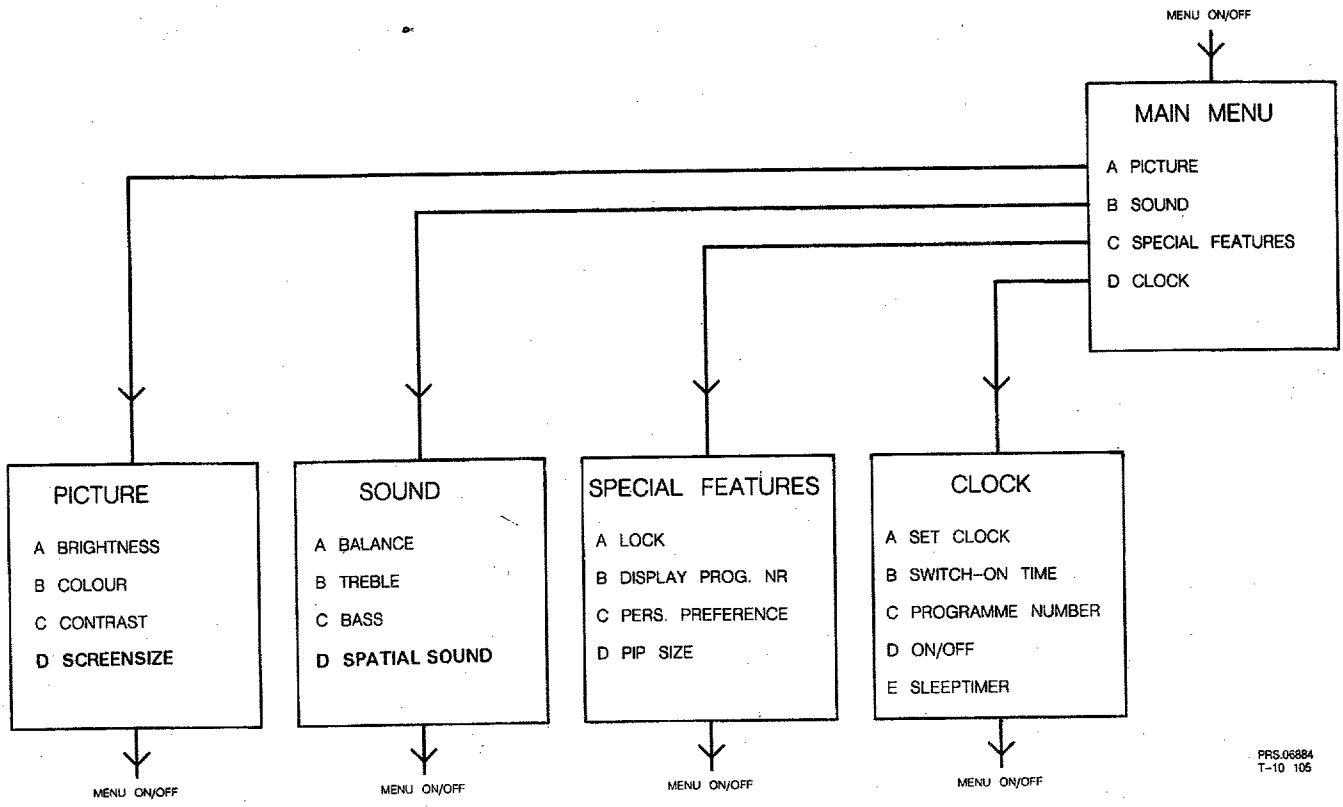
In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

2.1 Switching the hotel mode on and off

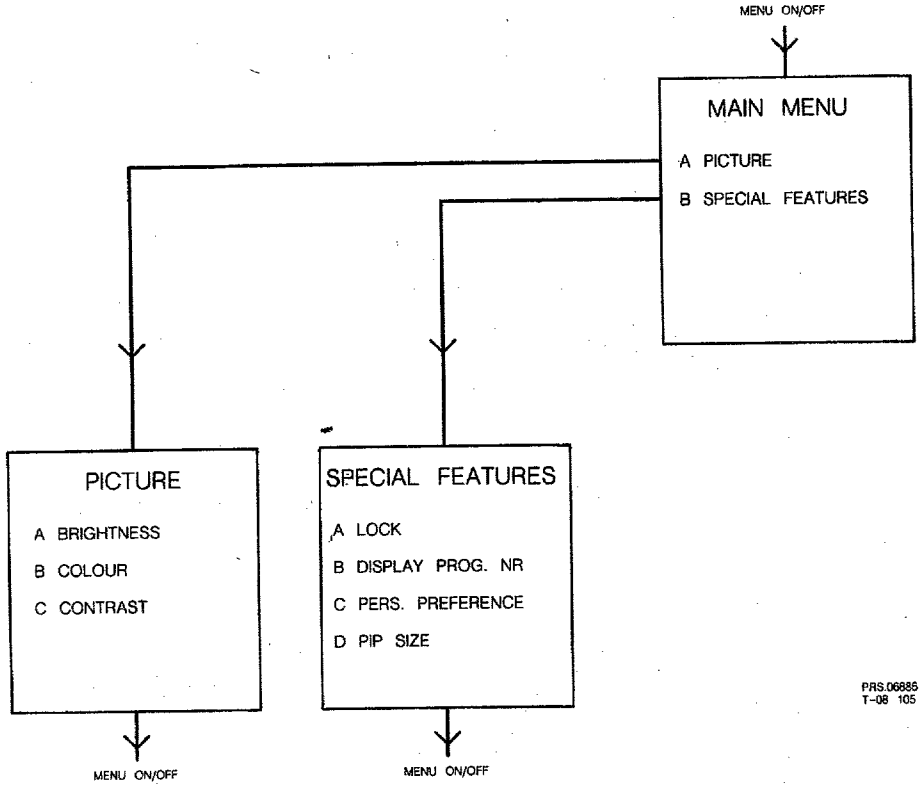
Select programme number 38.
First press ◿ + and keep this depressed while pressing P -.

Survey of menus

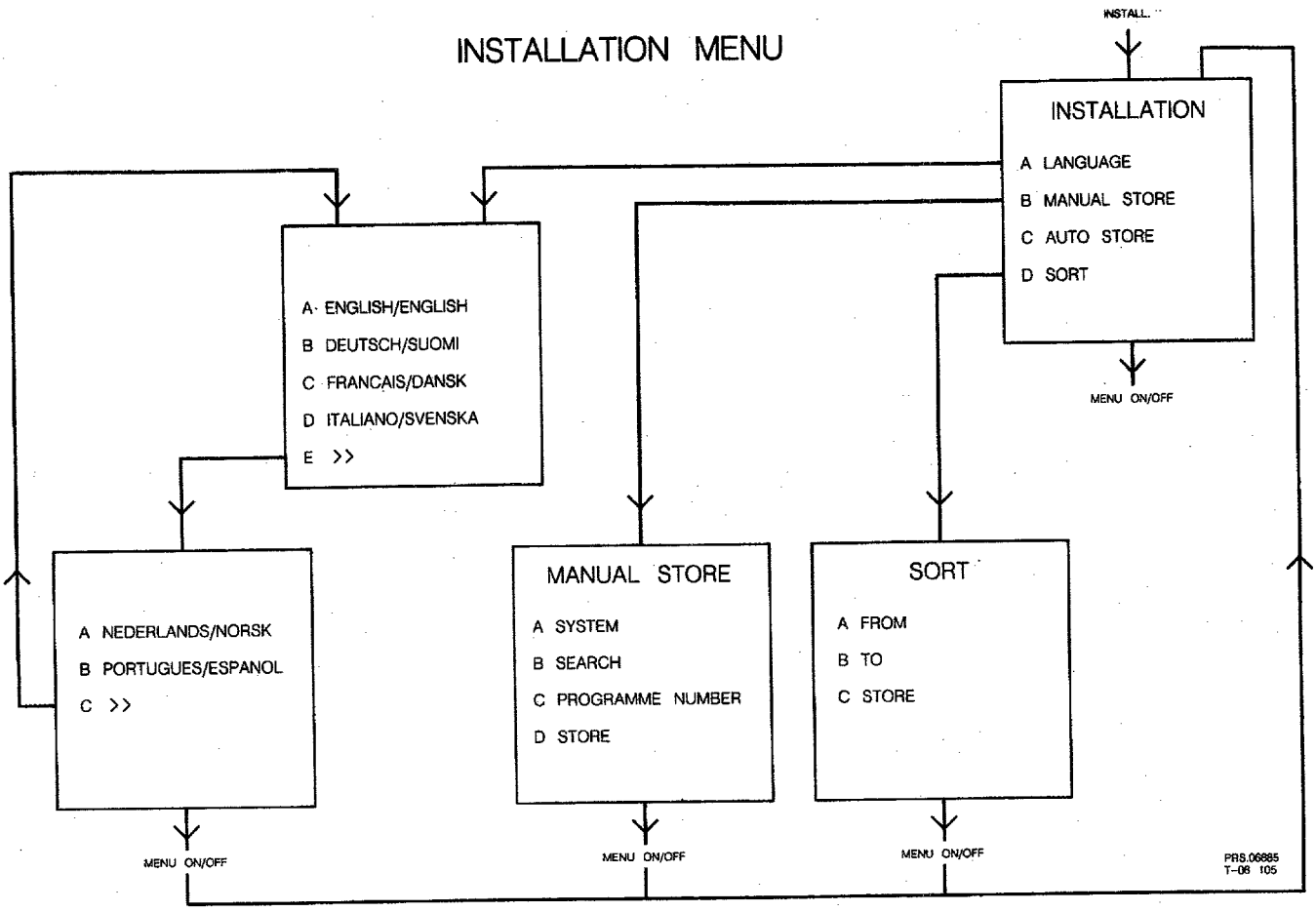
MAIN MENU STEREO



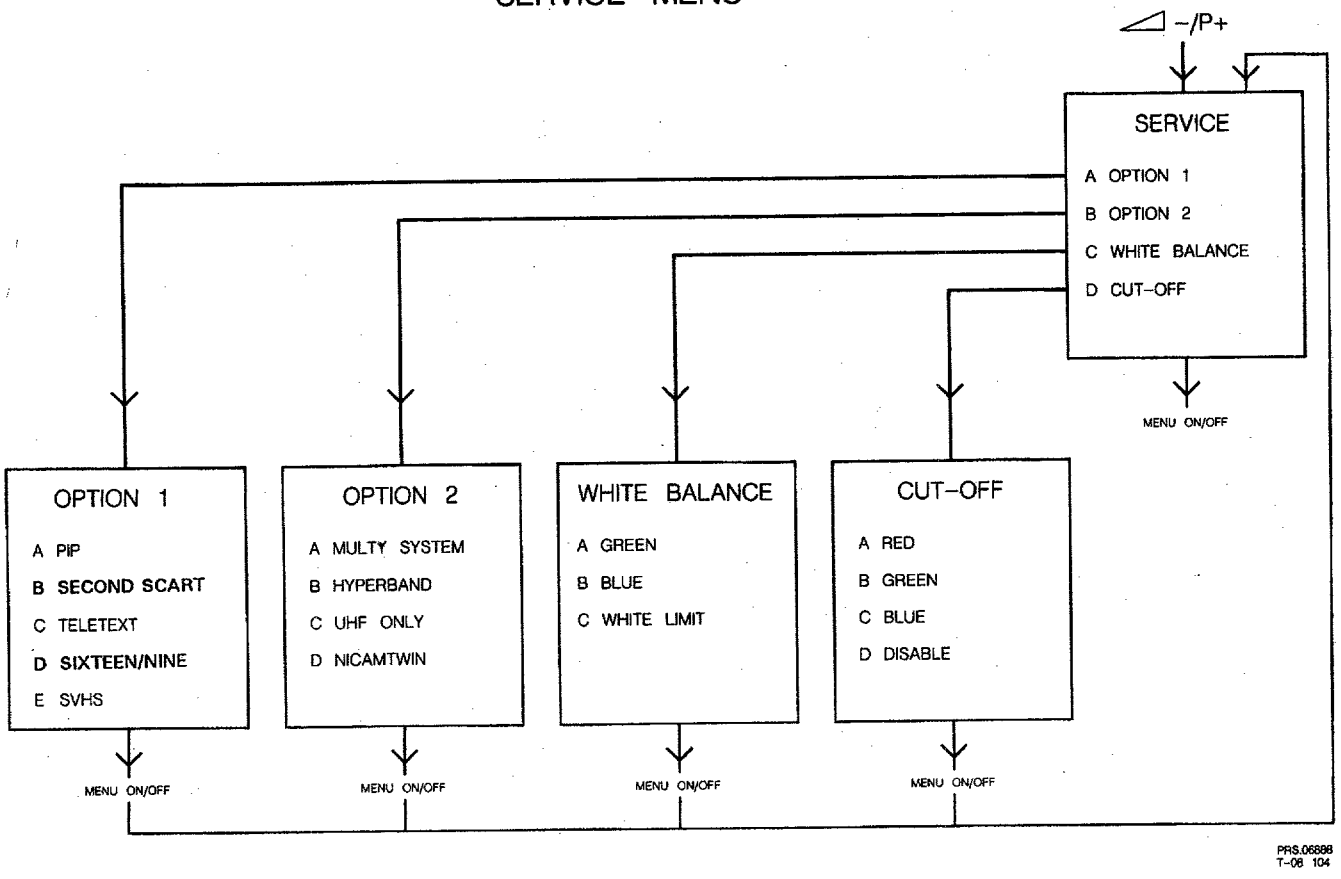
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Spare parts list / Stückliste / Liste

Main carrier

Mechanical parts

	4822 404 31174	bracket EURO module
	4822 492 70871	spring (wire)
	4822 492 91766	spring fix. TS7625
	4822 256 81766	LED holder
	4822 276 50354	keyboard 5-fold
	4822 466 30395	shielding IC7708
	4822 256 30274	fuse holder
	4822 320 20126	focus cable
0010⚠	4822 265 30389	2p male
0011⚠	4822 265 30389	2p male
0012	4822 265 30351	5p male
0013	4822 265 30378	4p male
0014	4822 290 40295	7p male
0015⚠	4822 265 40421	6p male
0016	4822 264 40207	3p male
0017	4822 267 50591	6p male
0018	4822 264 50148	8p male
0019	4822 264 40239	3p male
0020	4822 264 40207	3p male
0022	4822 267 40666	3p male
0023	4822 264 40207	3p male
0024	4822 264 40207	3p male
0026⚠	4822 265 30951	4p male
0027	4822 265 30351	5p male
0027	4822 265 30899	5p male
0028⚠	4822 265 30877	3p male
0029	4822 265 41086	9p male
0030	4822 264 40207	3P male
0035	4822 267 20387	SVHS-connector
0039	4822 267 31014	headphone socket
0040	4822 267 40878	3p male
0047	4822 267 30631	dual cinch
0049	4822 267 60243	euro-connector
	4822 290 60626	2p female
	4822 290 40285	3p female
	4822 267 50824	4p female
	4822 265 30275	5p female
	4822 267 30546	6p female
	4822 265 40252	7p female
	4822 267 51084	9p female
	4822 267 50637	10p female

Various

1000	4822 210 50124	UV916E/IEC
1000[1]	4822 210 10405	UV917E/IEC
1000[2]	4822 210 10464	U943C/IEC
1000[3]	4822 210 10366	U944/IEC
1240⚠	4822 071 51602	fuse T1.6A
1242⚠	4822 071 51602	fuse T1.6A
1300	4822 242 70304	8,867MHz
1534⚠	4822 071 53151	fuse T315mA
1559⚠	4822 071 51002	fuse T1A
1580⚠	4822 071 51602	fuse T1.6A
1600⚠	4822 070 32002	fuse T2A
1601⚠	4822 071 52502	fuse T2.5A
1702	4822 242 70392	6MHz

⊣⊢

2001	4822 124 40195	150µF 20% 16V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31947	100nF 20% 63V
2004	4822 122 33205	12pF 10% 63V
2005	4822 121 42408	220nF 5% 63V
2008	4822 122 31765	100pF 5% 50V
2010	4822 124 40435	10µF 20% 50V
2231	4822 124 41525	100µF 20% 25V
2232	4822 122 32863	22nF 80% 50V
2233	4822 122 32863	22nF 80% 50V
2234	4822 122 32863	22nF 80% 50V
2235	4822 122 32863	22nF 80% 50V
2236	4822 122 31784	4,7nF 10% 50V
2237	4822 122 31947	100nF 20% 63V
2238	4822 122 31784	4,7nF 10% 50V
2238[1]	4822 122 32597	6,8nF 10% 63V
2239	4822 122 31947	100nF 20% 63V
2240	4822 124 40214	1mF 20% 25V
2241	4822 122 31947	100nF 20% 63V
2242	4822 124 40214	1000µF 20% 25V
2243	4822 122 32863	22nF 80% 50V
2245	4822 122 32863	22nF 80% 50V
2246	4822 124 40849	330µF 20% 16V
2246[1]	4822 124 41596	22µF 20% 50V
2248	4822 124 40849	330µF 20% 16V
2249	4822 122 32863	22nF 80% 50V
2250	5322 122 32331	1nF 10% 100V
2250[3]	4822 121 42472	10nF 10% 50V
2251	5322 122 32331	1nF 10% 100V
2251[3]	4822 121 42472	10nF 10% 50V
2252	4822 121 51252	470nF 5% 63V
2254	4822 121 41757	470nF 10% 63V
2255	4822 121 41757	470nF 10% 63V
2256	4822 122 32142	270pF 5% 63V
2257	4822 122 32142	270pF 5% 63V
2262	4822 122 32142	270pF 5% 63V
2263	4822 122 32142	270pF 5% 63V
2264	4822 121 51252	470nF 5% 63V
2265	4822 121 51252	470nF 5% 63V
2266	4822 124 41596	22µF 20% 50V
2300	4822 122 32482	22pF 5% 63V
2301	4822 122 31773	560pF 5% 50V
2303	4822 122 32142	270pF 5% 63V
2304[4]	4822 122 32999	2,2nF 5%
2304	4822 122 31773	560pF 5% 50V
2305	4822 122 32444	33pF 5% 50V
2306	4822 122 31965	220pF 5% 63V
2307	4822 122 31965	220pF 5% 63V
2308	4822 122 32442	10nF 50V
2309	4822 122 32442	10nF 50V
2310	4822 122 32442	10nF 50V
2311	4822 122 33496	100nF 10% 63V
2312	4822 122 32442	10nF 50V
2313	4822 125 50045	20pF
2314	5322 121 42661	330nF 5% 63V
2315	4822 122 33205	12pF 10% 63V
2315[5]	4822 122 32504	15pF 5% 50V
2316	4822 122 31825	27pF 10% 50V
2317	4822 122 33466	82pF 2%
2318	4822 122 32875	100pF 5% 50V
2319	4822 122 31825	27pF 10% 50V
2320	4822 122 31772	47pF 5% 50V
2320[5]	4822 122 31839	82pF 10% 50V
2321	4822 122 31797	22nF 10% 63V
2322	4822 122 31797	22nF 10% 63V
2323	4822 122 32542	47nF 10% 63V
2325	4822 122 32542	47nF 10% 63V
2326[4]	4822 122 33496	100nF 10% 63V
2326	4822 051 10008	jumper
2327	4822 122 32442	10nF 50V
2328[5]	4822 121 41856	22nF 5% 250V
2328	4822 121 42408	220nF 5% 63V
2329[5]	4822 121 41856	22nF 5% 250V
2329	4822 121 42408	220nF 5% 63V
2330	4822 122 31765	100pF 5% 50V
2331	4822 122 31765	100pF 5% 50V
2332	5322 122 31842	330pF 5% 63V
2333	4822 121 42408	220nF 5% 63V
2334	4822 122 31965	220pF 5% 63V
2335	4822 122 31965	220pF 5% 63V
2336	4822 122 31797	22nF 10% 63V
2337	4822 122 31797	22nF 10% 63V
2338	4822 122 31797	22nF 10% 63V
2339	4822 122 33496	100nF 10% 63V
2340	4822 122 31797	22nF 10% 63V
2341	4822 122 31797	22nF 10% 63V
2342	4822 122 33496	100nF 10% 63V
2343	4822 122 33496	100nF 10% 63V
2344	4822 122 33496	100nF 10% 63V
2345	4822 122 31797	22nF 10% 63V
2346	4822 122 31765	100pF 5% 50V
2347	4822 122 31769	18pF 5% 50V
2349	5322 122 31647	1nF 10% 63V
2350	4822 122 31797	22nF 10% 63V
2351	4822 122 31797	22nF 10% 63V
2352	5322 122 31647	1nF 10% 63V
2353	4822 122 33496	100nF 10% 63V
2354	4822 124 40242	1µF 20% 63V
2355	4822 124 40849	330µF 20% 16V
2356	4822 122 31797	22nF 10% 63V
2357	4822 122 31797	22nF 10% 63V
2358	4822 122 31797	22nF 10% 63V
2359	4822 122 31765	100pF 5% 50V
2360	4822 122 33496	100nF 10% 63V
2361	4822 122 33496	100nF 10% 63V
2362	4822 122 33496	100nF 10% 63V
2363	4822 122 31972	39pF 5% 50V
2365	4822 124 40242	1µF 20% 63V
2366	4822 124 41566	3,3µF 20% 50V
2367	4822 124 41596	22µF 20% 50V
2368	4822 122 33205	12pF 10% 63V
2370	4822 121 42408	220nF 5% 63V
2371	4822 122 31825	27pF 10% 50V
2372	4822 122 31825	27pF 10% 50V
2373	4822 122 31825	27pF 10% 50V
2374	4822 122 31772	47pF 5% 50V
2375	4822 122 31765	100pF 5% 50V
2376	4822 122 31765	100pF 5% 50V
2380	4822 122 31766	120pF 5% 50V
2381	4822 122 31766	120pF 5% 50V
2384	4822 122 31765	100pF 5% 50V
2384[10]	4822 122 31772	47pF 5% 50V
2384[6]	4822 051 10008	jumper
2385	4822 122 31765	100pF 5% 50V
2386	4822 122 33481	1,8nF 15%
2450	4822 124 80059	100µF 20% 25V
2451	4822 122 33496	100nF 10% 63V
2456	4822 124 80059	100µF 20% 25V
2457	4822 122 33496	100nF 10% 63V
2458	4822 121 42937	2.7nF 1% 250V
2459	4822 122 33496	100nF 10% 63V
2460[7]	4822 122 32442	10nF 50V
2460[8]	4822 122 31644	2,2nF 10% 63V
2460[9]	4822 122 31784	4,7nF 10% 50V
2461	5322 122 31647	1nF 10% 63V
2462	4822 122 31797	22nF 10% 63V
2464	4822 122 33496	100nF 10% 63V
2465	4822 124 40849	330µF 20% 16V
2466	4822 124 41873	4,7µF 20% 35V
2467	4822 122 33496	100nF 10% 63V
2468	4822 124 41795	1µF 20% 50V

Spare parts list / Stückliste / Liste

Main carrier

2469	4822 124 41596	22µF 20% 50V
2470	4822 122 31772	47pF 5% 50V
2471	5322 121 42661	330nF 5% 63V
2473	5322 121 42661	330nF 5% 63V
2475	4822 122 31797	22nF 10% 63V
2500	4822 122 31965	220pF 5% 63V
2500[7]	4822 122 31727	470pF 5% 63V
2501	4822 122 33481	1,8nF 15%
2502	5322 124 41381	22µF 20% 50V
2505	4822 122 32542	47nF 10% 63V
2506[7]	4822 124 80062	470µF 20% 35V
2506	4822 124 80063	680µF 20% 35V
2507	4822 122 31797	22nF 10% 63V
2509	5322 124 41379	2,2µF 20% 50V
2520	4822 124 80058	68µF 20% 25V
2521	4822 122 32891	68nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2524	4822 124 42167	4,7µF 20% 50V
2526[9]	4822 122 32442	10nF 50V
2526[9]	4822 122 31759	18nF
2528	5322 121 42025	220nF 10% 250V
2531	4822 121 43396	120nF 5% 63V
2531[7]	4822 121 42408	220nF 5% 63V
2532	4822 124 80066	1µF 20% 63V
2532[7]	4822 124 80067	4,7µF 20% 63V
2533	4822 124 80066	1µF 20% 63V
2538	4822 121 43079	4,7nF 5% 250V
2539	4822 124 80057	330µF 20% 16V
2545▲[7]	4822 126 11539	1,2nF 10% 2KV
2545▲	4822 126 10202	1,5nF 10% 2KV
2546▲[9]	4822 121 43076	11nF 5% 1600V
2546▲[7]	4822 121 43065	7,5nF 5% 2KV
2546▲[8]	5322 121 42523	8,2nF 5% 2KV
2547▲	4822 121 40488	22nF 10% 400V
2547▲[7]	5322 121 44151	33nF 10% 400V
2549▲[8]	4822 121 42073	390nF 10% 400V
2549▲[9]	4822 121 42074	470nF 10% 400V
2550▲[7]	4822 121 43148	470nF 10% 2KV
2550▲	4822 121 51527	390nF 5% 250V
2551	4822 124 80069	1µF 20% 160V
2559	4822 124 80059	100µF 20% 25V
2560▲	4822 121 51408	33nF 10% 250V
2563	4822 122 10175	2,2nF 10% 50V
2570	4822 124 80071	22µF 20% 160V
2574	4822 122 10175	2,2nF 10% 50V
2580	4822 124 80061	1mF 20% 25V
2585	5322 124 21731	10µF 20% 50V
2588	4822 122 31644	2,2nF 10% 63V
2590	5322 121 42498	680nF 5% 63V
2600▲	4822 124 41531	470nF 10% 250V
2605▲	4822 124 80052	68µF 20% 385V
2605▲	4822 124 80053	220µF 20% 385V
2607▲	4822 122 40602	1nF 20% 400V
2611	5322 124 41299	68µF 20% 25V
2617	4822 121 43047	1µF 10% 63V
2620	5322 121 42465	68nF 5% 63V
2625	4822 122 40593	1nF 10% 1KV
2626	4822 122 40594	470pF 10% 1KV
2629	4822 122 31784	4,7nF 10% 50V
2630	4822 124 23418	47µF 200V
2630[1]	4822 124 22349	100µF 10% 160V
2630	4822 124 80055	100µF 10% 160V
2631	4822 124 23418	47µF 200V
2631[1]	4822 124 22349	100µF 10% 160V
2632	4822 126 11382	1nF 10% 1KV
2636	4822 122 31644	2,2nF 10% 63V
2640	4822 124 80061	1000µF 20% 25V
2641	4822 124 80061	1000µF 20% 25V
2646▲	4822 124 42153	15µF 20% 50V
2649	4822 122 33496	100nF 10% 63V
2650	4822 122 33496	100nF 10% 63V
2652	5322 122 32331	1nF 10% 100V
2653	5322 122 32331	1nF 10% 100V
2658	5322 122 32838	82nF 10% 63V
2660	4822 124 80061	1mF 20% 25V
2661	4822 124 41506	47µF 20% 16V
2662[7]	5322 122 32056	220pF 2% 100V
2662	4822 122 30107	270pF 2% 100V
2663[7]	4822 122 31081	100pF 2% 100V
2663	5322 122 32344	82pF 2% 100V
2664	5322 124 41379	2,2µF 20% 50V
2670	4822 122 31766	120pF 5% 50V
2671	4822 121 42408	220nF 5% 63V
2675	4822 124 80064	680µF 20% 50V
2675[7]	4822 124 80065	1mF 20% 50V
2676	5322 122 32331	1nF 10% 100V
2701	4822 122 31765	100pF 5% 50V
2702	4822 122 32442	10nF 50V
2703	4822 121 51252	470nF 5% 63V
2704	4822 122 32542	47nF 10% 63V
2705	4822 122 31766	120pF 5% 50V
2706	5322 124 41299	68µF 20% 25V
2708	4822 122 31766	120pF 5% 50V
2709[10]	4822 122 32507	6,8pF 5% 50V
2709	4822 122 32083	8,2pF 5% 50V
2710[10]	4822 122 32507	6,8pF 5% 50V
2710	4822 122 32083	8,2pF 5% 50V
2711	4822 122 31825	27pF 10% 50V
2712	4822 122 31825	27pF 10% 50V
2713	4822 124 41525	100µF 20% 25V
2714	4822 122 31766	120pF 5% 50V
2715	4822 122 31766	120pF 5% 50V
2716	4822 122 33496	100nF 10% 63V
2717	4822 122 31644	2,2nF 10% 63V
2718	4822 122 33496	100nF 10% 63V
2719	5322 121 42386	100nF 5% 63V
2721	4822 122 32442	10nF 50V
2722	4822 122 31947	100nF 20% 63V
2781	4822 122 33496	100nF 10% 63V
2800	4822 124 41506	47µF 20% 16V
2805[10]	4822 122 31766	120pF 5% 50V
2805	4822 122 31772	47pF 5% 50V
2807	4822 124 40433	47µF 20% 25V
2810	4822 122 31784	4,7nF 10% 50V
2849	4822 122 33496	100nF 10% 63V
2875	5322 121 42386	100nF 5% 63V

3001▲	4822 052 10279	27Ω 5% 0,33W
3002	4822 051 10223	22k 2% 0,25W
3003	4822 051 20222	2k2 5% 0,1W
3004	4822 051 10472	4k7 2% 0,25W
3005	4822 051 10102	1k 2% 0,25W
3006	4822 051 10472	4k7 2% 0,25W
3007	4822 051 10102	1k 2% 0,25W
3008	4822 051 10472	4k7 2% 0,25W
3009	4822 051 10102	1k 2% 0,25W
3010	4822 051 10102	1k 2% 0,25W
3011	4822 116 52257	22k 5% 0,5W
3218	4822 116 52228	680Ω 5% 0,5W
3219	4822 116 52228	680Ω 5% 0,5W
3220	4822 051 10392	3k9 2% 0,25W
3221	4822 050 11002	1k 1% 0,4W
3222	4822 116 52234	100k 5% 0,5W
3224	4822 116 52256	2k 2 5% 0,5W
3225	4822 051 10272	2k7 2% 0,25W
3226	4822 051 10333	33k 2% 0,25W
3227	4822 051 10333	33k 2% 0,25W
3228	4822 051 10151	150Ω 2% 0,25W
3229	4822 051 10562	5k6 2% 0,25W
3230	4822 116 52257	22k 5% 0,5W
3231	4822 051 10472	4k7 2% 0,25W
3232	4822 051 10101	100Ω 2% 0,25W
3232[5]	4822 051 10008	jumper
3233	4822 051 10103	10k 2% 0,25W
3234	4822 051 10223	22k 2% 0,25W
3235	4822 051 10223	22k 2% 0,25W
3236[7]	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10562	5k6 2% 0,25W
3237[7]	4822 051 10122	1k2 2% 0,25W
3237	4822 051 10562	5k6 2% 0,25W
3238	4822 051 10122	1k2 2% 0,25W
3239	4822 116 52207	1k 2 5% 0,5W
3240▲	4822 052 10828	8Ω2 5% 0,33W
3241▲	4822 052 10828	8Ω2 5% 0,33W
3242	4822 051 10333	33k 2% 0,25W
3243	4822 051 10333	33k 2% 0,25W
3244	4822 051 10103	10k 2% 0,25W
3245	4822 051 10103	10k 2% 0,25W
3246	4822 050 23301	330Ω 1% 0,6W
3247	4822 116 52175	100Ω 5% 0,5W
3248	4822 050 23301	330Ω 1% 0,6W
3249	4822 116 52175	100Ω 5% 0,5W
3249[5]	4822 116 52193	39Ω 5% 0,5W
3250	4822 050 11002	1k 1% 0,4W
3251	4822 050 11002	1k 1% 0,4W
3253	4822 116 52211	150Ω 5% 0,5W
3254	4822 116 52211	150Ω 5% 0,5W
3255	4822 050 11002	1k 1% 0,4W
3256	4822 050 11002	1k 1% 0,4W
3257	4822 051 10334	330k 2% 0,25W
3258	4822 051 10334	330k 2% 0,25W
3259	4822 051 10334	330k 2% 0,25W
3260	4822 051 10334	330k 2% 0,25W
3261	4822 116 80747	75Ω 5% 0,125W
3262	4822 116 80747	75Ω 5% 0,125W
3263[5]	4822 051 10562	5k6 2% 0,25W
3263	4822 051 10008	jumper
3264[5]	4822 051 10562	5k6 2% 0,25W
3264	4822 051 10008	jumper
3265	4822 050 21008	1Ω 1% 0,6W
3266	4822 050 21008	1Ω 1% 0,6W
3267	4822 051 10103	10k 2% 0,25W
3268	4822 051 10103	10k 2% 0,25W
3300	4822 051 10822	8k2 2% 0,25W
3301	4822 051 10272	2k7 2% 0,25W
3302	4822 051 20222	2k2 5% 0,1W
3303	4822 051 10122	1k2 2% 0,25W
3303[4]	4822 051 10332	3k3 2% 0,25W
3304	4822 051 10182	1k8 2% 0,25W
3305	4822 051 10431	430Ω 2% 0,25W
3306	4822 051 10103	10k 2% 0,25W
3307[10]	4822 051 10681	680Ω 2% 0,25W
3307	4822 051 10821	820Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10331	330Ω 2% 0,25W
3310	4822 116 52286	5k 1 5% 0,5W
3311	4822 051 10391	390Ω 2% 0,25W
3312	4822 101 11186	470Ω LIN 0.1W
3313[4,10]	4822 051 10103	10k 2% 0,25W
3313	4822 051 10332	3k3 2% 0,25W
3314	4822 051 10103	10k 2% 0,25W
3315	4822 051 10911	910Ω 2% 0,25W
3316	4822 051 10105	1M 5% 0,25W

Main carrier

3317	4822 051 20222	2k2 5% 0,1W
3318	4822 051 10472	4k7 2% 0,25W
3323	4822 116 52272	330k 5% 0,5W
3325	4822 051 10271	270Ω 2% 0,25W
3326	4822 051 10271	270Ω 2% 0,25W
3327	4822 050 11202	1k2 1% 0,4W
3328	4822 051 10473	47k 2% 0,25W
3330	4822 051 10109	10Ω 2% 0,25W
3331	4822 051 10109	10Ω 2% 0,25W
3332▲	4822 050 23901	390Ω 1% 0,6W
3334▲	4822 050 21809	18Ω 1% 0,6W
3335▲	4822 116 52184	18Ω 5% 0,5W
3336▲	4822 052 10189	18Ω 5% 0,33W
3336▲[5]	4822 052 10279	27Ω 5% 0,33W
3337▲	4822 052 10189	18Ω 5% 0,33W
3337▲[5]	4822 052 10279	27Ω 5% 0,33W
3338	4822 050 11002	1k 1% 0,4W
3339	4822 051 10152	1k5 2% 0,25W
3340	4822 050 11002	1k 1% 0,4W
3341	4822 051 10103	10k 2% 0,25W
3342	4822 051 10102	1k 2% 0,25W
3343	4822 051 10104	100k 2% 0,25W
3344	4822 051 10182	1k8 2% 0,25W
3347	4822 116 52219	330Ω 5% 0,5W
3348	4822 116 52219	330Ω 5% 0,5W
3349	4822 116 52219	330Ω 5% 0,5W
3350	4822 050 11002	1k 1% 0,4W
3351	4822 116 52263	2k 7 5% 0,5W
3352	4822 116 52263	2k 7 5% 0,5W
3353	4822 116 52263	2k 7 5% 0,5W
3354	4822 051 10221	220Ω 2% 0,25W
3356	4822 051 10008	jumper
3357	4822 051 10102	1k 2% 0,25W
3358	4822 051 10331	330Ω 2% 0,25W
3359	4822 051 10331	330Ω 2% 0,25W
3360	4822 051 10102	1k 2% 0,25W
3361	4822 051 10102	1k 2% 0,25W
3362	4822 051 10472	4k7 2% 0,25W
3365	4822 116 52245	150k 5% 0,5W
3366	4822 051 10223	22k 2% 0,25W
3367	4822 116 52175	100Ω 5% 0,5W
3368	4822 116 52175	100Ω 5% 0,5W
3369	4822 116 52175	100Ω 5% 0,5W
3370	4822 051 10472	4k7 2% 0,25W
3371	4822 051 10332	3k3 2% 0,25W
3372	4822 051 10472	4k7 2% 0,25W
3373	4822 051 10102	1k 2% 0,25W
3374	4822 050 22703	27k 1% 0,6W
3375	4822 051 10331	330Ω 2% 0,25W
3376	4822 051 10331	330Ω 2% 0,25W
3380	4822 051 10101	100Ω 2% 0,25W
3381	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10104	100k 2% 0,25W
3395	4822 051 10683	68k 2% 0,25W
3450	4822 116 52238	12k 5% 0,5W
3451	4822 116 52175	100Ω 5% 0,5W
3452	4822 116 52175	100Ω 5% 0,5W
3455▲	4822 051 10102	1k 2% 0,25W
3456	4822 051 10682	6k8 2% 0,25W
3457	4822 101 11191	10k LIN 0.1W
3458	4822 051 10303	30k 2% 0,25W
3459	4822 051 10823	82k 2% 0,25W
3460	4822 051 10333	33k 2% 0,25W
3461	4822 101 11193	470k LIN 0.1W
3463	4822 051 20183	18k 5% 0,1W
3464	4822 051 10123	12k 2% 0,25W
3465	4822 051 10394	390k 2% 0,25W
3466	4822 051 10152	1k5 2% 0,25W
3467[7]	4822 050 21205	1M2 1% 0,6W
3467	4822 116 80692	2M2 5% 0,2W
3468	4822 051 10682	6k8 2% 0,25W
3469	4822 051 10229	22Ω 2% 0,25W
3470	4822 116 52231	820Ω 5% 0,5W
3471	4822 050 19109	91k 1% 0,4W
3473	4822 116 52265	270k 5% 0,5W
3474	4822 051 10392	3k9 2% 0,25W
3483▲	4822 051 10479	47Ω 2% 0,25W
3485	4822 051 20222	2k2 5% 0,1W
3501[7]	4822 051 10101	100Ω 2% 0,25W
3501	4822 051 10759	75Ω 2% 0,25W
3501[10]	4822 051 10829	82Ω 2% 0,25W
3502	4822 050 28201	820Ω 1% 0,6W
3502[10]	4822 053 10122	1k2 5% 1W
3503▲	4822 052 10108	1Ω 5% 0,33W
3503▲[10]	4822 052 10128	1Ω2 5% 0,33W
3503▲[7]	4822 052 10158	1Ω5 5% 0,33W
3504	4822 100 11684	100Ω 10% 0.1W
3505	4822 051 10471	470Ω 2% 0,25W
3506	4822 116 52245	150k 5% 0,5W
3507	4822 116 52233	10k 5% 0,5W
3507[7]	4822 116 52238	12k 5% 0,5W
3508	4822 051 10228	2Ω2 5% 0,25W
3509	4822 051 10228	2Ω2 5% 0,25W
3510	4822 051 10228	2Ω2 5% 0,25W
3511	4822 051 10228	2Ω2 5% 0,25W
3512	4822 051 10109	10Ω 2% 0,25W
3513	4822 050 25601	560Ω 1% 0,6W
3514	4822 051 10182	1k8 2% 0,25W
3515	4822 051 10228	2Ω2 5% 0,25W
3516	4822 101 11192	22k LIN 0.1W
3517	4822 051 10228	2Ω2 5% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10228	2Ω2 5% 0,25W
3520	4822 116 52211	150Ω 5% 0,5W
3521	4822 101 11189	4,7k LIN 0.1W
3522	4822 051 10152	1k5 2% 0,25W
3523	4822 051 10228	2Ω2 5% 0,25W
3524	4822 051 10683	68k 2% 0,25W
3525[7]	4822 101 11191	10k LIN 0.1W
3525	4822 101 11192	22k LIN 0.1W
3526	4822 051 10104	100k 2% 0,25W
3526	4822 051 10823	82k 2% 0,25W
3527[7]	4822 051 10333	33k 2% 0,25W
3527	4822 051 10125	1M2 5% 0,25W
3528	4822 051 20222	2k2 5% 0,1W
3528[7]	4822 051 10681	680Ω 2% 0,25W
3529	4822 051 10228	2Ω2 5% 0,25W
3530	4822 051 10102	1k 2% 0,25W
3530[7]	4822 051 10008	jumper
3531	4822 051 10104	100k 2% 0,25W
3531	4822 051 10008	jumper
3532	4822 051 10103	10k 2% 0,25W
3532[7]	4822 051 10153	15k 2% 0,25W
3533	4822 051 10822	8k2 2% 0,25W
3534▲	4822 052 10828	8Ω2 5% 0,33W
3535[7]	4822 116 52253	2k 5% 0,5W
3535	4822 116 52231	820Ω 5% 0,5W
3536	4822 051 10822	8k2 2% 0,25W
3538	4822 116 52251	18k 5% 0,5W
3539[7]	4822 053 20434	430k 5% 0,25W
3539	4822 053 20684	680k 5% 0,25W
3540	4822 051 10399	39Ω 2% 0,25W
3542	4822 050 28201	820Ω 1% 0,6W
3543	4822 051 10101	100Ω 2% 0,25W
3545	4822 111 70178	120Ω 5% 5W
3545[7]	4822 116 83618	470Ω 5% 5W
3545[8]	4822 113 80565	180Ω 5% 5W
3549	4822 116 52251	18k 5% 0,5W
3550▲	4822 116 52251	18k 5% 0,5W
3551▲	4822 050 25601	560Ω 1% 0,6W
3552▲	4822 050 25601	560Ω 1% 0,6W
3553▲	4822 052 10561	560Ω 5% 0,33W
3560[9]	4822 116 52247	16k 5% 0,5W
3560[8]	4822 116 52254	20k 5% 0,5W
3560[7,10]	4822 051 10333	33k 2% 0,25W
3570▲	4822 052 10688	6Ω8 5% 0,33W
3582	4822 050 25601	560Ω 1% 0,6W
3585▲	4822 052 10159	15Ω 5% 0,33W
3588▲	4822 052 10561	560Ω 5% 0,33W
3589	4822 050 24701	470Ω 1% 0,6W
3590	4822 116 52234	100k 5% 0,5W
3591	4822 051 10474	470k 2% 0,25W
3592	4822 051 10681	680Ω 2% 0,25W
3603▲	4822 053 21915	9M1 5% 0,5W
3604▲	4822 052 10102	1k 5% 0,33W
3605▲	4822 052 10102	1k 5% 0,33W
3606▲	4822 052 10102	1k 5% 0,33W
3610▲	4822 052 10159	15Ω 5% 0,33W
3610[7]	4822 052 10688	6Ω8 5% 0,33W
3617	4822 116 52213	180Ω 5% 0,5W
3619	4822 116 52182	15Ω 5% 0,5W
3620	4822 053 12121	120Ω 5% 3W
3622[7]	4822 053 11479	47Ω 5% 2W
3622	4822 053 12479	47Ω 5% 3W
3624▲[7]	4822 050 23304	330k 1% 0,6W
3624▲	4822 116 52272	330k 5% 0,5W
3625▲	4822 116 52292	560k 5% 0,5W
3626	4822 113 80565	180Ω 5% 5W
3626[7]	4822 053 12361	360Ω 5% 3W
3627	4822 053 12361	360Ω 5% 3W
3628	4822 051 10334	330k 2% 0,25W
3629	4822 051 10682	6k8 2% 0,25W
3631[7]	4822 050 21204	120k 1% 0,6W
3631	4822 050 22204	220k 1% 0,6W
3634[7]	4822 116 52263	2k7 5% 0,5W
3634	4822 116 52269	3k3 5% 0,5W
3635	4822 101 11187	1k LIN 0,1W
3636	4822 051 10224	220k 2% 0,25W
3637	4822 051 10101	100Ω 2% 0,25W
3647[7]	4822 050 23303	33k 1% 0,6W
3647	4822 050 23603	36k 1% 0,6W
3648	4822 051 10273	27k 2% 0,25W
3649	4822 050 23309	33Ω 1% 0,6W
3658▲	4822 052 10688	6Ω8 5% 0,33W
3659	4822 051 10181	180Ω 2% 0,25W
3660	4822 051 10101	100Ω 2% 0,25W
3661	4822 051 10361	360Ω 2% 0,25W
3662	4822 051 10221	220Ω 2% 0,25W
3663	4822 051 10562	5k6 2% 0,25W
3664	4822 051 10272	2k7 2% 0,25W
3665	4822 051 10103	10k 2% 0,25W
3666	4822 051 10102	1k 2% 0,25W
3667	4822 051 10361	360Ω 2% 0,25W
3668	4822 051 10102	1k 2% 0,25W
3669	4822 051 10102	1k 2% 0,25W
3670	4822 051 10303	30k 2% 0,25W
3671	4822 050 11002	1k 1% 0,4W
3672	4822 051 10103	10k 2% 0,25W
3673	4822 051 10472	4k7 2% 0,25W
3674	4822 051 10112	1k1 2% 0,25W
3675	4822 116 52239	120k 5% 0,5W
3676	4822 051 10103	10k 2% 0,25W
3677	4822 051 10118	1Ω1 5% 0,25W
3701	4822 051 10273	27k 2% 0,25W
3702	4822 051 10153	15k 2% 0,25W
3703	4822 051 10153	15k 2% 0,25W
3704	4822 051 10103	10k 2% 0,25W
3705	4822 051 10102	1k 2% 0,25W
3706	4822 051 10472	4k7 2% 0,25W

Main carrier

3707	4822 051 10223	22k 2% 0,25W
3708	4822 051 10334	330k 2% 0,25W
3710[5]	4822 051 10243	24k 2% 0,25W
3710	4822 051 10008	jumper
3711	4822 116 80176	1Ω 5% 0,5W
3711[5]	4822 116 52244	15k 5% 0,5W
3712[5]	4822 051 10223	22k 2% 0,25W
3712	4822 051 10008	jumper
3713[5]	4822 051 10223	22k 2% 0,25W
3713	4822 051 10008	jumper
3714	4822 051 10105	1M 5% 0,25W
3716	4822 051 10103	10k 2% 0,25W
3717	4822 051 10103	10k 2% 0,25W
3718	4822 116 52215	220Ω 5% 0,5W
3719	4822 116 52215	220Ω 5% 0,5W
3720	4822 116 52215	220Ω 5% 0,5W
3721	4822 051 10103	10k 2% 0,25W
3722	4822 051 10103	10k 2% 0,25W
3723	4822 051 10103	10k 2% 0,25W
3724	4822 051 10103	10k 2% 0,25W
3725	4822 051 10103	10k 2% 0,25W
3726	4822 051 10103	10k 2% 0,25W
3727	4822 116 52175	100Ω 5% 0,5W
3728	4822 116 52175	100Ω 5% 0,5W
3729	4822 051 10911	910Ω 2% 0,25W
3730	4822 051 10221	220Ω 2% 0,25W
3731	4822 051 10103	10k 2% 0,25W
3732	4822 053 11103	10k 5% 2W
3732[7]	4822 053 11332	3k3 5% 2W
3733	4822 050 23902	3k9 1% 0,6W
3733	4822 116 52283	4k7 5% 0,5W
3734[7]	4822 050 23902	3k9 1% 0,6W
3734	4822 116 52283	4k7 5% 0,5W
3735	4822 051 10563	56k 2% 0,25W
3736	4822 116 52175	100Ω 5% 0,5W
3737	4822 050 11002	1k 1% 0,4W
3738	4822 051 10563	56k 2% 0,25W
3741	4822 051 10123	12k 2% 0,25W
3742	4822 051 10332	3k3 2% 0,25W
3743	4822 051 10472	4k7 2% 0,25W
3747	4822 051 10273	27k 2% 0,25W
3748	4822 051 10273	27k 2% 0,25W
3749	4822 051 10273	27k 2% 0,25W
3750	4822 051 10273	27k 2% 0,25W
3751	4822 051 10153	15k 2% 0,25W
3752	4822 051 10153	15k 2% 0,25W
3753	4822 051 10153	15k 2% 0,25W
3754	4822 051 10153	15k 2% 0,25W
3755	4822 051 10101	100Ω 2% 0,25W
3755[5]	4822 051 10008	jumper
3756	4822 051 10101	100Ω 2% 0,25W
3757	4822 051 20222	2k2 5% 0,1W
3758	4822 051 10392	3k9 2% 0,25W
3759	4822 116 52175	100Ω 5% 0,5W
3768	4822 051 10105	1M 5% 0,25W
3770	4822 051 10473	47k 2% 0,25W
3771	4822 116 52251	18k 5% 0,5W
3772	4822 051 10392	3k9 2% 0,25W
3774	4822 051 10103	10k 2% 0,25W
3775	4822 051 10101	100Ω 2% 0,25W
3776	4822 051 10562	5k6 2% 0,25W
3777	4822 116 52264	27k 5% 0,5W
3778	4822 051 10563	56k 2% 0,25W
3779	4822 116 52233	10k 5% 0,5W
3780	4822 051 10103	10k 2% 0,25W
3781	4822 051 10472	4k7 2% 0,25W
3849	4822 116 52218	300Ω 5% 0,5W
3850	4822 116 52189	30Ω 5% 0,5W
3851	4822 116 80747	75Ω 5% 0,125W
3852	4822 116 80747	75Ω 5% 0,125W
3853	4822 116 80747	75Ω 5% 0,125W
3854	4822 116 80747	75Ω 5% 0,125W
3855	4822 116 52201	75Ω 5% 0,5W
3856	4822 051 10101	100Ω 2% 0,25W
3857	4822 051 10331	330Ω 2% 0,25W
3858	4822 051 10331	330Ω 2% 0,25W
3859	4822 051 10331	330Ω 2% 0,25W
3860	4822 116 80176	1Ω 5% 0,5W
3861	4822 051 10562	5k6 2% 0,25W
3866	4822 051 10472	4k7 2% 0,25W
3867	4822 116 80747	75Ω 5% 0,125W
3868	4822 116 80747	75Ω 5% 0,125W
3869	4822 116 52175	100Ω 5% 0,5W
3871	4822 116 52175	100Ω 5% 0,5W
3874	4822 050 21008	1Ω 1% 0,6W
3875	4822 051 10102	1k 2% 0,25W
3879	4822 051 10122	1k2 2% 0,25W
3880	4822 050 11002	1k 1% 0,4W
3880	4822 051 10332	3k3 2% 0,25W
3881[10]	4822 116 52217	270Ω 5% 0,5W
3881	4822 116 52224	470Ω 5% 0,5W
3882[10]	4822 116 52217	270Ω 5% 0,5W
3882	4822 116 52224	470Ω 5% 0,5W
3884	4822 051 10681	680Ω 2% 0,25W
3885	4822 051 10821	820Ω 2% 0,25W
3886	4822 051 10472	4k7 2% 0,25W
3887	4822 116 52289	5k 6 5% 0,5W
3888	4822 116 52207	1k 2 5% 0,5W
3890	4822 051 10103	10k 2% 0,25W

Jumper

4xxx	4822 051 10008	jumper

5001	4822 157 60138	
5240	4822 158 10551	27µH
5242	4822 158 10551	27µH
5301	4822 157 63075	7.95µH
5303	4822 157 53906	47µH
5304	4822 157 63074	7.6µH
5306	4822 320 40081	470 ns
5530	4822 152 20559	390µH
5534⚠	4822 158 10728	coil 25"/28"
5534[7]	4822 157 62771	coil 21"
5541⚠	4822 157 63078	line driver
5545⚠[9]	4822 140 10414	LOT 25"/28"
5545⚠[8]	4822 140 10417	LOT 25"/28"
5545⚠[7]	4822 140 10418	LOT 21"
5549⚠	4822 157 53069	coil balance
5554⚠[7]	4822 157 63161	AT4042/90G 21"
5554⚠	4822 157 63079	AT4042/97 25"/28"
5563	4822 157 51462	10µH
5582	5322 157 52539	15µH
5588⚠	4822 157 52505	33µH
5605⚠	4822 157 53995	100µH
5606⚠	4822 157 53995	100µH
5619	4822 156 21125	3,9µH 25"/28"
5619[7]	4822 157 51235	4µH 21"
5621[7]	4822 157 53903	180µH 21"
5621	4822 157 60412	150µH 25"/28"
5625⚠	4822 148 81168	SOPS trafo 25"/28"
5625⚠[7]	4822 146 31062	SOPS trafo 21"
5630	4822 157 60387	1µH
5631	4822 158 10551	27µH
5632	4822 158 10551	27µH
5661	4822 152 20678	33µH
5703	4822 157 52279	33µH
5801	4822 157 53001	27µH

6245	4822 130 30621	1N4148
6246	4822 130 81139	BZV55-C3V3
6247	4822 130 81139	BZV55-C3V3
6248	4822 130 80446	BAS32L
6249	4822 130 80446	BAS32L
6300	4822 130 80446	BAS32L
6302	4822 130 34382	BZX79-B8V2
6303	4822 130 34382	BZX79-B8V2
6310	4822 130 80954	BZV55-C5V6
6315	4822 130 80446	BAS32L
6316	4822 130 30621	1N4148
6317	4822 130 30621	1N4148
6318	4822 130 80446	BAS32L
6367	4822 130 80884	BZV55-C5V1
6464	4822 130 81015	BZV55-F10
6465[6]	4822 130 61219	BZX79-B10
6465[7]	4822 130 34281	BZX79-B15
6465[9]	4822 130 80239	BZX79-F8V2
6503	4822 130 42488	BYD33D
6504	4822 130 80446	BAS32L
6518	4822 130 80446	BAS32L
6519	4822 130 80446	BAS32L
6546⚠	4822 130 41275	BY228
6547⚠	4822 130 41602	BYW95C
6548	4822 130 30621	1N4148
6551	4822 130 42489	BYD33G
6560	4822 130 80446	BAS32L
6561	4822 130 30864	BZX79-B68
6563	4822 130 80915	BYD74C
6570	4822 130 42489	BYD33G
6571	4822 130 42488	BYD33D
6580	4822 130 82512	BYV29F-400
6580[5]	4822 130 80791	BYV28-200/20
6585	4822 130 42489	BYD33G
6590	4822 130 81141	BZV55-C43
6591	4822 130 30621	1N4148
6592	4822 130 80928	BZX79-C30
6610	4822 130 80446	BAS32L
6611	5322 130 80442	BZV85-C16
6612	4822 130 30621	1N4148
6617	4822 130 31456	BZV85-C5V1
6621	4822 130 42488	BYD33D
6622	4822 130 30621	1N4148
6624	4822 130 31933	1N5061
6625	4822 130 31933	1N5061
6630⚠[7]	4822 130 81175	BYD74G
6630⚠	4822 130 33531	BY229F-600
6640	4822 130 80914	BYD74B
6641	4822 130 80914	BYD74B
6646	4822 130 42488	BYD33D
6648[7]	4822 130 61219	BZX79-B10
6648	4822 130 34488	BZX79-B11
6649	4822 130 30621	1N4148
6660	4822 130 30621	1N4148
6661	4822 130 42488	BYD33D
6662	4822 130 80905	BZV55-F5V1
6663	4822 130 34281	BZX79-B15
6664	4822 130 61219	BZX79-B10
6664[7]	4822 130 30862	BZX79-B9V1
6665	4822 130 80883	BZV55-C4V7
6666	4822 130 80887	BZV55-F36
6666[7]	4822 130 81141	BZV55-C43
6669	4822 130 80446	BAS32L
6670[10]	4822 130 20272	E0102AA
6670	4822 130 20245	SFOR5D43
6675⚠[7]	4822 130 42488	BYD33D
6675⚠	4822 130 80914	BYD74B
6705	4822 130 80905	BZV55-F5V1

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Main carrier

6707	4822 209 72895	TLUV5320
6708	4822 130 81145	BZV55-F2V4
6709	4822 130 82037	HZT33
7000	5322 130 42012	BC858A
7001	5322 130 42012	BC858A
7002	5322 130 42012	BC858A
7003	4822 130 42133	BC817
7240[5]	4822 209 73253	TDA2613/N1
7240	4822 209 73853	TDA1521/N4
7243	5322 130 42012	BC858A
7244	4822 130 42513	BC858C
7245	5322 130 42136	BC848C
7246	5322 130 42136	BC848C
7247	5322 130 42136	BC848C
7248	4822 130 61207	BC848
7249	4822 130 61207	BC848
7301	4822 130 61207	BC848
7302	5322 130 42012	BC858A
7303	4822 130 61207	BC848
7305	4822 209 30389	TDA4510/V8
7306	4822 209 30011	TDA4650/V4
7307	4822 209 63108	TDA4660/V2
7308	4822 209 71512	TDA4565/V6
7309	4822 209 63733	TDA4680/V5
7310	4822 130 61207	BC848
7311	5322 209 10576	HEF4053BD
7312	5322 209 10576	HEF4053BD
7341	4822 130 61207	BC848
7370	4822 130 61207	BC848
7371	4822 130 61207	BC848
7372	4822 130 61207	BC848
7373	4822 130 61207	BC848
7374	4822 130 61207	BC848
7455	5322 130 42012	BC858A
7470	4822 209 63423	TDA2579B/N2
7500	4822 130 41344	BC337-40
7502	4822 130 60775	2SD1266P
7503	4822 130 61236	BD234
7504	4822 130 61207	BC848
7505	5322 130 42012	BC858A
7530	4822 130 61207	BC848
7533	4822 130 60111	2SA1359
7534	4822 130 44283	BC636
7540	4822 130 41344	BC337-40
7545⚠	4822 130 61265	BU508AF
7546⚠	4822 130 42679	BUT11AF
7591	5322 130 42012	BC858A
7600	4822 209 63735	TDA8385/N2
7614⚠	4822 209 30992	CNR50 selected
7625⚠	4822 130 62735	BUT12AF
7661	5322 130 44921	BD943
7663	4822 130 42513	BC858C
7671	4822 130 61207	BC848
7672	4822 130 61207	BC848
7701	4822 130 61207	BC848
7702	4822 130 61207	BC848
7703	4822 130 61207	BC848
7704	4822 130 61207	BC848
7705	4822 130 61207	BC848
7706	4822 130 61207	BC848
7707	4822 130 61207	BC848
7708[1]	4822 209 63872	TMP47C1237N-U114-L1
7708[1]	4822 209 63947	TMP47C1237N-U111-L2
7708	4822 209 30796	TMP47C1673N-U215-L1
7708	4822 209 30797	TMP47C1673N-U218-L2
7709	4822 130 61207	BC848
7710	4822 209 62098	ST24C02CP
7710[10]	4822 209 62524	X24C16P
7711	4822 130 61207	BC848
7712	4822 130 61207	BC848
7805	4822 130 61207	BC848
7885	4822 130 61207	BC848
7886	4822 130 61207	BC848

Microprocessors:

L1 = English, German, French, Italian, Dutch, Portugues

L2 = English, Finnish, Danish, Swedish, Norvegian, Spanish.

1 Monosets
2 PAL I mono
3 PAL I NICAM
4 Multi system
5 Mono multi France
6 21" PAL only
7 21"
8 non blackline
9 blackline
10 satellite

Mains module

	4822 212 23664	mains module
0010⚠	4822 265 30389	2p male
0032⚠	4822 265 30389	2p male
0033⚠	4822 265 30877	3p male
2601⚠	4822 121 40487	100nF 10% 400V
2602	4822 126 11141	2,2nF 10% 1KV
2604	4822 126 11141	2,2nF 10% 1kV
3601⚠	4822 116 40211	PTC/NTC
3607	4822 050 23901	390Ω 1% 0,6W
5600⚠	4822 157 63073	filter
6602	4822 130 31933	1N5061
6603	4822 130 31933	1N5061
6604	4822 130 31933	1N5061
6605	4822 130 31933	1N5061

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CRT module

	4822 212 23675	CRT module 25"/ 28" Blackline
	4822 212 23676	CRT module 25"/ 28" non Blackline
	4822 212 30026	CRT module 25"/28" 16/9
0009	4822 267 40878	3p male
0013	4822 264 40207	3p male
0019	4822 265 30378	4p male
0020	4822 290 40295	7p male
0021⚠	4822 255 70261	CRT socket 25"/28"
0021	4822 255 70251	CRT socket 21"

Capacitors

2301[7]	4822 122 31769	18pF 5% 50V
2301[8]	4822 122 31825	27pF 10% 50V
2301[9]	4822 122 31972	39pF 5% 50V
2301[10]	4822 122 31772	47pF 5% 50V
2331[7]	4822 122 31769	18pF 5% 50V
2331[8]	4822 122 31825	27pF 10% 50V
2331[9]	4822 122 31972	39pF 5% 50V
2331[10]	4822 122 31772	47pF 5% 50V
2361[7]	4822 122 31769	18pF 5% 50V
2361[8]	4822 122 31825	27pF 10% 50V
2361[9]	4822 122 32444	33pF 5% 50V
2361[10]	4822 122 31772	47pF 5% 50V
2391	4822 121 43878	27pF 2% 500V
2392	4822 124 80067	4,7µF 20% 63V
2392	4822 124 41577	4,7µF 20% 50V
2411	4822 124 80057	330µF 20% 16V
2411	4822 124 40849	330µF 20% 16V
2421	4822 122 31772	47pF 5% 50V
2431	4822 121 41689	0,1µF 10% 250V
2432	4822 124 80056	47µF 20% 16V
2432	4822 124 41506	47µF 20%
2433	5322 121 44356	4,7nF 5% 2KV
2433	5322 121 50885	33nF 5% 1KV
2434	5322 122 32334	220pF 10% 100V
2440	4822 122 33105	56nF 10% 63V
2441	4822 122 33105	56nF 10% 63V

Resistors

3301	4822 051 10131	130Ω 2% 0,25W
3302	4822 051 10362	3k6 2% 0,25W
3302	4822 051 20222	2k20 5% 0,1W
3303	4822 051 10272	2k70 2% 0,25W
3304	4822 116 52239	120k 5% 0,5W
3308	4822 051 10479	47Ω 2% 0,25W
3308[8]	4822 051 10118	1Ω1 5% 0,25W
3310	4822 116 52219	330Ω 5% 0,5W
3311	4822 053 12123	12k 5% 3W
3311	4822 053 12153	15k 5% 3W
3312⚠	4822 052 10271	270Ω 5% 0,33W
3313⚠	4822 052 10271	270Ω 5% 0,33W
3314	4822 050 21502	1k5 1% 0,6W
3315	4822 051 10124	120k 2% 0,25W
3316	4822 051 10124	120k 2% 0,25W
3331	4822 051 10131	130Ω 2% 0,25W
3332	4822 051 10362	3k6 2% 0,25W
3332	4822 051 20222	2k20 5% 0,1W
3333	4822 051 10272	2k7 2% 0,25W
3334	4822 116 52239	120k 5% 0,5W
3339	4822 051 10118	1Ω1 5% 0,25W
3339	4822 051 10479	47Ω 2% 0,25W
3340	4822 116 52219	330Ω 5% 0,5W
3341	4822 053 12153	15k 5% 3W
3342⚠	4822 052 10271	270Ω 5% 0,33W
3343⚠	4822 052 10271	270Ω 5% 0,33W
3344	4822 050 21502	1k5 1% 0,6W
3345	4822 051 10681	680Ω 2% 0,25W
3361	4822 116 52208	130Ω 5% 0,5W
3361[7]	4822 051 10131	130Ω 2% 0,25W
3362[7]	4822 051 10362	3k6 2% 0,25W
3362	4822 051 20222	2k2 5% 0,1W
3363	4822 051 10272	2k7 2% 0,25W
3364	4822 116 52239	120k 5% 0,5W
3368	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10118	1Ω1 5% 0,25W
3370	4822 116 52219	330Ω 5% 0,5W
3371	4822 053 12153	15k 5% 3W
3371[9,10]	4822 053 12103	10k 5% 3W
3372⚠	4822 052 10271	270Ω 5% 0,33W
3373⚠	4822 052 10271	270Ω 5% 0,33W
3374	4822 050 21502	1k5 1% 0,6W
3391	4822 051 10104	100k 2% 0,25W
3392	4822 051 10104	100k 2% 0,25W
3393	4822 116 52234	100k 5% 0,5W
3393	4822 050 28203	82Ω 1% 0,6W
3393[9]	4822 116 52264	27k 5% 0,5W
3394	4822 116 52267	30k 5% 0,5W
3394[10]	4822 116 52277	39k 5% 0,5W
3395	4822 051 10683	68Ω 2% 0,25W
3396	4822 051 10124	120k 2% 0,25W
3397	4822 051 10124	120k 2% 0,25W
3411	4822 051 10182	1k8 2% 0,25W
3411[7]	4822 051 10152	1k5 2% 0,25W
3412	4822 051 10471	470Ω 2% 0,25W
3413	4822 116 52218	300Ω 5% 0,5W
3413	4822 116 52215	220Ω 5% 0,5W
3414	4822 051 10479	47Ω 2% 0,25W
3414	4822 051 10519	51Ω 5% 0,5W
3415	4822 116 52215	220Ω 5% 0,5W
3421	4822 051 10104	100k 2% 0,25W
3421[10]	4822 051 10184	180k 2% 0,25W
3422	4822 051 10682	6k80 2% 0,25W
3423	4822 051 10474	470k 2% 0,25W
3423[10]	4822 051 10105	1M 5% 0,25W
3431⚠	4822 052 10181	180Ω 5% 0,33W
3432⚠	4822 052 10399	39Ω 5% 0,33W
3433⚠	4822 052 10108	1Ω 5% 0,33W
3434	4822 050 21502	1k5 1% 0,6W
3435	4822 050 21502	1k5 1% 0,6W
3436	4822 050 21805	1M 8 1% 0,6W
3438	4822 051 10273	27k 2% 0,25W
3439	4822 051 10153	15k 2% 0,25W
3440	4822 051 10154	150k 2% 0,25W
3442	4822 051 10123	12k 2% 0,25W
3443	4822 051 10473	47k 2% 0,25W
3444	4822 051 10822	8k20 2% 0,25W
3447	4822 051 10104	100k 2% 0,25W
3448	4822 051 10223	22k 2% 0,25W

jumper

4xxx	4822 051 10008	jumper

Coils

5401	4822 156 20915	33µH
5401	4822 158 10563	SPT0508

Diodes

6301	4822 130 80877	BAV103
6331	4822 130 80877	BAV103
6345	4822 130 81015	BZV55-F10
6361	4822 130 80877	BAV103
6411	4822 130 80879	BZV55-C3V0
6421	4822 130 80446	BAS32L

Transistors

7301	4822 130 41782	BF422
7301[9,10]	4822 130 41773	BF869
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7332	4822 130 41782	BF422
7332[9,10]	4822 130 41773	BF869
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858A
7362	4822 130 41782	BF422
7362[9,10]	4822 130 41773	BF869
7363	4822 130 61207	BC848
7364	4822 130 41782	BF422
7365	4822 130 41646	BF423
7391	4822 130 41646	BF423
7411	4822 130 40938	BC548
7421	5322 130 41983	BC858B
7421[10]	4822 130 42513	BC858C
7430	4822 130 61207	BC848
7431	4822 130 61207	BC848
7432	4822 130 61207	BC848
7434	4822 130 61207	BC848

[7] 21"
[8] non Blackline
[9] Blackline
[10] satellite

Spare parts list / Stückliste / List

Euro module

	4822 212 23666	EURO module
0023	4822 265 40442	10P male
0026	4822 265 40442	10P male
0030	4822 265 41086	9P male
0048	4822 267 60247	euro connector
⊣⊢		
2800	4822 121 51252	470nF 5% 63V
2801	4822 121 51252	470nF 5% 63V
2802	4822 121 51252	470nF 5% 63V
2803	4822 121 51252	470nF 5% 63V
2804	4822 122 33496	100nF 10% 63V
2805	4822 122 33496	100nF 10% 63V
2806	4822 122 33496	100nF 10% 63V
2807	4822 124 41506	47µF 20% 16V
2810	4822 122 32142	270pF 5% 63V
2811	4822 122 32142	270pF 5% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 52342	47nF 10% 63V
2814	4822 122 31759	18nF
2815	4822 122 33496	100nF 10%
2816	4822 122 33496	100nF 10% 63V
2817	4822 122 33496	100nF 10% 63V
2818	4822 122 33496	100nF 10% 63V
2819	4822 124 41525	100µF 20% 25V
2820	5322 121 42386	100nF 5% 63V
2821	4822 124 40433	47µF 20% 25V
2822	4822 124 40435	10µF 20% 50V
2823	4822 122 33496	100nF 10% 63V
2831	4822 124 40272	33µF 20% 16V
2833	4822 122 33496	100nF 10% 63V
2834	4822 122 33496	100nF 10% 63V
⊏⊐		
3800	4822 116 52189	30Ω 5% 0,5W
3801	4822 116 80747	75Ω 5% 0,125W
3802	4822 116 52211	150Ω 5% 0,5W
3803	4822 116 52211	150Ω 5% 0,5W
3804	4822 050 11002	1k 1% 0,4W
3805	4822 050 11002	1k 1% 0,4W
3806	4822 051 10334	330k 2% 0,25W
3807	4822 051 10334	330k 2% 0,25W
3808	4822 051 10334	300k 2% 0,25W
3809	4822 051 10334	330k 2% 0,25W
3810	4822 051 10622	6k2 2% 0,25W
3811	4822 051 10182	1k8 2% 0,25W
3812	4822 051 10331	330Ω 2% 0,25W
3813	4822 116 52201	75Ω 5% 0,5W
3814	4822 051 10152	1k5 2% 0,25W
3815	4822 051 10472	4k7 2% 0,25W
3816	4822 116 52296	6k8 5% 0,5W
3819	4822 051 10331	330Ω 2% 0,25W
3820	4822 051 10471	470Ω 2% 0,25W
3821	4822 051 10331	330Ω 2% 0,25W
3822	4822 051 10471	470Ω 2% 0,25W
3823	4822 051 10561	560Ω 2% 0,25W
3824	4822 051 10271	270Ω 2% 0,25W
3825	4822 051 10223	22k 2% 0,25W
3826	4822 051 10102	1k 2% 0,25W
3827	4822 051 10339	33Ω 2% 0,25W
3828	4822 051 20222	2k2 5% 0,1W
3829	4822 051 10821	820Ω 2% 0,25W
3830	4822 051 10683	68k 2% 0,25W
3831	4822 051 10123	12k 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10279	27Ω 2% 0,25W
3834	4822 051 10279	27Ω 2% 0,25W
3835	4822 051 10221	220Ω 2% 0,25W
3836	4822 051 10271	270Ω 2% 0,25W
3837⚠	4822 052 10278	2Ω7 5% 0,33W
3838	4822 116 80747	75Ω 5% 0,125W
jumper		
4xxx	4822 051 10008	jumper
⌁		
5800	4822 157 51462	10µH
⊣▶		
6800	4822 130 80954	LLZ - C5V6
6801	4822 130 80446	LL4148
6802	4822 130 80446	LL4148
6803	4822 130 30621	1N4148
⊂⊐		
7800	5322 130 44921	BD943
7801	5322 209 10576	HEF4053BD
7802	5322 209 10576	HEF4053BD
7820	4822 130 61207	BC848
7821	5322 130 42136	BC848C
7822	5322 130 42012	BC858A
7823	4822 130 61207	BC848
7824	5322 130 42136	BC848C

Mono IF/sound module

	4822 212 23688	IF module multi
	4822 212 23689	IF module PAL/ SECAM BG
	4822 212 23694	IF module PAL I
1010[5]	4822 242 72212	OFWG3950
1010	4822 242 72374	OFWG3950
1010[2]	4822 242 70936	OFW31952
1042	4822 242 72211	5,5MHz
1043	4822 153 30025	6,0MHz
1102	4822 242 70714	5,5MHz
1103	4822 242 71841	6,0MHz
⊣⊢		
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014[4]	4822 122 31784	4,7µF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2019	4822 122 31784	4,7µF 10% 50V
2020	4822 122 33205	12pF 10% 63V
2021	4822 122 33205	12pF 10% 63V
2022	4822 122 33472	22pF 2%
2025	4822 122 31784	4,7nF 10% 50V
2035	4822 122 32507	6,8pF 5% 50V
2036	4822 122 31766	120pF 5% 50V
2037	4822 122 31766	120pF 5% 50V
2038	4822 122 31784	4,7nF 10% 50V
2039	4822 122 32504	15pF 5% 50V
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100µF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10µF 20% 50V
2057	4822 122 31981	33nF 0,5pF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41566	3,3µF 20% 50V
2060	4822 122 31797	22nF 10% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33474	47pF 2%
2105	4822 122 33465	39pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	4822 126 10514	0,47pF 5% 63V
2111	4822 122 31784	4,7nF 10% 50V
2113	4822 124 41596	22µF 20% 50V
2114	4822 122 31784	4,7nF 10% 50V
2115	4822 124 41577	4,7µF 20% 50V
2116	4822 124 40435	10µF 20% 50V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 40432	1,5mF 20% 25V
2124	4822 122 32442	10nF 50V
2125	4822 124 40195	150µF 20% 16V
2126	4822 121 43898	8,2nF 10% 50V
2127	5322 121 42661	330nF 5% 63V
2129	5322 121 42661	330nF 5% 63V
2130	5322 121 42661	330nF 5% 63V
2131	4822 122 31797	22nF 10% 63V

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Mono IF/sound module (continued)

2132	4822 122 31797	22nF 10% 63V
2133	4822 122 31797	22nF 10% 63V
2134	4822 124 41596	22µF 20% 50V
2135	4822 121 42408	220nF 5% 63V
2136	5322 121 42661	330nF 5% 63V
2137[2,5]	4822 126 11381	820pF 2%
2137	4822 122 31746	1000pF 5% 50V
2138		390pF 2%
2141	4822 124 41577	4,7µF 20% 50V
2143	4822 122 31797	22nF 10% 63V
2150	4822 121 42408	220nF 5% 63V
2151	4822 124 40195	150µF 20% 16V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015[5]	4822 051 10104	100k 2% 0,25W
3015	4822 051 10473	47k 2% 0,25W
3016	4822 100 11819	100k LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 10223	22k 2% 0,25W
3022	4822 051 10008	jumper
3022[5]	4822 051 10151	150Ω 2% 0,25W
3024	4822 051 20222	2k2 5% 0,1W
3025	4822 051 10562	5k6 2% 0,25W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10392	3k9 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3043	4822 116 52175	100Ω 5% 0,5W
3044[5]	4822 051 10102	1K 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 051 10681	680Ω 2% 0,25W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 101 11188	2k 30%LIN 0,1W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10561	560Ω 2% 0,25W
3052[5]	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10563	56k 2% 0,25W
3065	4822 051 10223	22k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3067	4822 051 10331	330Ω 2% 0,25W
3068	4822 051 10152	1k5 2% 0,25W
3080[5]	4822 051 10102	1k 2% 0,25W
3080	4822 051 20222	2k25% 0,1W
3080[2]	4822 051 10332	3k3 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3104▲	4822 051 10479	47Ω 2% 0,25W
3105	4822 053 11271	270Ω 5% 2W
3107	4822 051 10151	150Ω 2% 0,25W
3108	4822 051 10333	33k 2% 0,25W
3109	4822 051 10223	22k 2% 0,25W
3110	4822 051 10562	5k6 2% 0,25W
3111	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10472	4k7 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3114	4822 051 10182	1k8 2% 0,25W
3114[5]	4822 051 10472	4k7 2% 0,25W
3115	4822 051 10562	5k6 2% 0,25W
3116	4822 116 52263	2k 7 5% 0,5W
3117	4822 051 10104	100k 2% 0,25W
3118	4822 051 20222	2k2 5% 0,1W
3118	4822 051 10472	4k7 2% 0,25W
3119	4822 051 10472	4k7 2% 0,25W
3120	4822 051 10472	4k7 2% 0,25W
3121	4822 051 10104	100k 2% 0,25W
3122	4822 051 10331	330Ω 2% 0,25W
3123[2,5]	4822 051 10563	56k 2% 0,25W
3123	4822 051 10473	47k 2% 0,25W
3124	4822 051 10103	10k 2% 0,25W
3125	4822 051 10103	10k 2% 0,25W
3126	4822 051 10153	15k 2% 0,25W
3127	4822 051 10153	15k 2% 0,25W
3129	4822 051 10822	8k2 2% 0,25W
3130	4822 051 10682	6k8 2% 0,25W
3131	4822 051 10102	1k 2% 0,25W
3132	4822 051 10392	3k90 2% 0,25W
3140	4822 051 10153	15k 2% 0,25W
3141	4822 051 10392	3k9 2% 0,25W
3142	4822 051 10273	27k 2% 0,25W
3143	4822 051 10182	1k8 2% 0,25W
3144	4822 051 10182	1k8 2% 0,25W

jumper

4xxx	4822 051 10008	jumper

5005	4822 157 53539	0,27µH
5010	4822 157 63081	0,56µH
5035	4822 157 53534	0,34µH
5036	4822 157 53609	0,36µH
5036	4822 157 63824	0,36µH 38,9 MHz
5037	4822 157 53537	1,35µH
5038	4822 157 63076	
5039	4822 157 52983	22µH
5041[5]	4822 157 52983	22µH
5041	4822 157 53001	27µH
5042[5]	4822 157 53634	5,6µH
5042	4822 152 20677	
5100	4822 157 53538	
5101	4822 157 53535	0,36µH
5102	4822 157 53536	
5105	4822 157 52511	0,83µH

6005	4822 130 80888	BA682
6036	4822 130 80446	LL4148
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	LL4148
6041	4822 130 80446	BAS32L
6042	4822 130 80446	LL4148
6043	4822 130 80446	BAS32L
6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6105	4822 130 80888	BA682
6106	4822 130 80888	BA682
6108	4822 130 80888	BA682
6112	4822 130 80884	BZV55-C5V1

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858A
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7041	4822 130 61207	BC848
7100	4822 209 63105	TDA3843/V3
7101	4822 209 30278	TDA3827
7102	4822 130 61207	BC848
7103	5322 130 42136	BC848C
7104	5322 130 41982	BC848B

2 PAL I mono
5 mono multi France

Stereo IF/sound module

	4822 212 23663	IF module multi
	4822 212 23687	IF module non multi
1010	4822 242 72554	OFWG3254
1010[4]	4822 242 80205	OFWK3261
1042	4822 242 72211	5,5MHz
1101	4822 242 70485	5,74MHz
1102	4822 242 71713	6,0MHz
1103	4822 242 70714	5,5MHz
1200	4822 242 80208	10MHz
⊣⊢		
2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2035[4]	4822 122 32506	5,6pF 5% 50V
2035	4822 051 10472	4k7 2% 0,25W
2036	4822 122 31784	4,7nF 10% 50V
2037	4822 122 31784	4,7nF 10% 50V
2038	4822 122 33496	100nF 10% 63V
2039[4]	4822 122 32083	8,2pF 5% 50V
2039	4822 051 10682	6k80 2% 0,25W
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2051	4822 122 33496	100nF 10% 63V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 41576	2,2µF 20% 50V
2057	4822 122 31981	33nF 0,5pF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41407	0,47µF 20% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33465	39pF 2%
2105	4822 126 11379	33pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	4822 122 32507	6,8pF 5% 50V
2111	4822 122 31784	4,7nF 10% 50V
2112	4822 122 32505	2,7pF 5% 50V
2113	4822 124 40435	10µF 20% 50V
2114	4822 122 32442	10nF 50V
2115	4822 124 41509	33µF 20% 35V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 41576	2,2µF 20% 50V
2119	4822 122 31797	22nF 10% 63V
2120	4822 124 41576	2,2µF 20% 50V
2122	4822 122 33496	100nF 10% 63V
2123	4822 124 40242	1µF 20% 63V
2123[4]	4822 124 41577	4,7µF 20% 50V
2124	4822 124 41576	2,2µF 20% 50V
2125	4822 122 10527	910pF 2% 50V
2126	4822 122 31784	4,7nF 10% 50V
2127	4822 122 31746	1000pF 5% 50V
2127[4]	4822 126 11381	820pF 2%
2128	4822 126 11381	820pF 2% NPO
2129	4822 122 33476	220pF 2% 50V
2130	4822 124 40195	150µF 20% 16V
2133	4822 122 31797	22nF 10% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 121 51252	470nF 5% 63V
2203	4822 122 31916	5,6nF 10% 63V
2204	4822 121 42408	220nF 5% 63V
2205	4822 122 31947	100nF 20% 63V
2206	4822 121 51252	470nF 5% 63V
2207	4822 121 51252	470nF 5% 63V
2208	4822 124 41509	33µF 20% 35V
2209	4822 124 41509	33µF 20% 35V
2210	4822 122 31947	100nF 20% 63V
2211	4822 124 40198	470µF 20% 16V
2212	4822 124 40435	10µF 20% 50V
2213	4822 122 31782	15nF 10% 50V
2214	4822 122 31782	15nF 10% 50V
2215	4822 122 31981	33nF 0,5pF 50V
2216	4822 122 31916	5,6nF 10% 63V
2217	4822 122 31981	33nF 0,5pF 50V
2218	4822 122 31916	5,6nF 10% 63V
2219	4822 124 41577	4,7µF 20% 50V
2220	5322 121 42498	680nF 5% 63V
2221	5322 121 42498	680nF 5% 63V
2222	4822 124 41643	100µF 20% 16V
2223	4822 122 31746	1000pF 5% 50V
⊣□⊢		
3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 116 52234	100k 5% 0,5W
3016	4822 100 11819	100k LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	3822 051 10472	4l7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10472	4k7 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042[4]	4822 051 10151	150Ω 2% 0,25W
3042	4822 116 90536	120Ω 1% 1/8W
3043	4822 116 52175	100Ω 5% 0,5W
3044[4]	4822 051 10102	1k 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 116 52228	680Ω 5% 0,5W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 101 11188	2k 30%LIN 0,1W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10224	220k 2% 0,25W
3065	4822 051 10124	120k 2% 0,25W
3065[4]	4822 051 10472	4k7 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3070	4822 051 10822	8k20 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3105	4822 053 11121	120Ω 5% 2W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10102	1k 2% 0,25W
3108	4822 051 10561	560Ω 2% 0,25W
3109	4822 051 10562	5k6 2% 0,25W
3110	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10562	5k6 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3115	4822 051 10331	330Ω 2% 0,25W
3117[4]	4822 051 10561	560Ω 2% 0,25W
3117	4822 051 10681	680Ω 2% 0,25W
3119	4822 051 10562	5k6 2% 0,25W
3120	4822 051 10562	5k6 2% 0,25W
3121	4822 051 10562	5k6 2% 0,25W
3122	4822 051 10122	1k2 2% 0,25W
3123	4822 051 10561	560Ω 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10152	1k5 2% 0,25W
3128	4822 051 10182	1k8 2% 0,25W
3200	4822 051 10331	330Ω 2% 0,25W
3201	4822 051 10331	330Ω 2% 0,25W
3202	4822 051 10563	56k 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 101 11191	10k LIN 0.1W
3205⚠	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10478	4Ω7 5% 0,25W
3207	4822 051 10273	27k 2% 0,25W
3208	4822 051 10272	2k7 2% 0,25W
3209	4822 051 10333	33k 2% 0,25W
3210	4822 050 11002	1k 1% 0,4W
3211	4822 051 10101	100Ω 2% 0,25W
3213	4822 116 52233	10k 5% 0,5W
3214	4822 051 10102	1k 2% 0,25W
3215	4822 051 10102	1k 2% 0,25W
3216	4822 051 10101	100Ω 2% 0,25W
jumper		
4xxx	4822 051 10008	jumper
~		
5010	4822 157 63081	0,56µH
5010	4822 157 53302	1µH
5035	4822 157 53534	0,34µH
5036	4822 157 63824	0,36µH 38,9MHz
5036[4]	4822 157 53609	0,36µH
5037	4822 157 53537	1,35µH
5038	4822 157 63076	1,2µH
5039	4822 152 20678	33µH
5042[4]	4822 157 62767	8,2µH
5042	4822 157 53634	5,6µH
5100	4822 157 53538	0,75µH
5101	4822 157 53535	0,36µH
5102	4822 157 53536	0,34µH
5103	4822 157 52511	0,83µH
5104	4822 157 63077	0.25µH
5105	4822 157 52511	0,83µH
⊣▶		
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	LL4148
6041	4822 130 80446	BAS32L
6042	4822 130 80446	LL4148
6043	4822 130 80446	BAS32L

Spare parts list / Stückliste / Liste

Stereo IF/sound module

6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6106	4822 130 80888	BA682
6107	4822 130 80888	BA682
6108	4822 130 80888	BA682
6109	4822 130 80446	BAS32L
6220	4822 130 81015	LLZ-C10

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858A
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7100	4822 209 63059	TDA 3856/V3
7101	4822 209 63784	TDA3857/V3
7102	4822 130 61207	BC848
7103	5322 130 42012	BC858A
7104	4822 130 61207	BC848
7200	4822 209 63967	TDA8417/V2
7220	4822 209 63734	TDA8425/V7
7232	5322 130 41982	BC848B
7233	4822 130 42513	BC858C

[4] multi system

NICAM IF/sound module

	4822 212 23692	IF MOD. PAL BG
	4822 212 23691	IF MOD. PAL I
1010[3]	4822 242 72553	OFWJ3251
1010	4822 242 72554	OFWG3254
1042[3]	4822 153 30025	6MHz
1042	4822 242 72211	5,5MHz
1100	4822 242 70485	5,74MHz
1105[3]	4822 242 71713	6,0MHz
1105	4822 242 70714	5,5MHz
1116[3]	4822 242 72303	filter 2110Ω
1116	4822 242 72301	filter 2080Ω
1125[3]	4822 242 72347	6,552MHz
1125	4822 242 72302	5,850MHz
1141	4822 242 72304	5,824MHz
1191	4822 071 54001	fuse T400mA
1200	4822 242 80208	10MHz

2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31797	22nF 10% 63V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2100	4822 124 40242	1µF 20% 63V
2101	4822 122 31746	1000pF 5% 50V
2102[3]	4822 122 32765	820pF 10% 63V
2102	4822 122 31746	1000pF 5% 50V
2104	4822 122 31784	4,7nF 10% 50V
2106	4822 124 41576	2,2µF 20% 50V
2107	4822 124 41576	2,2µF 20% 50V
2108	4822 122 32862	10nF 80% 50V
2109	4822 124 41509	33µF 20% 35V
2110	4822 122 31947	100nF 20% 63V
2116	5322 122 31647	1nF 10% 63V
2119	4822 124 40198	470µF 20% 16V
2120	4822 124 41407	0,47µF 20% 63V
2121	4822 124 41407	0,47µF 20% 63V
2122	4822 122 32862	10nF 80% 50V
2123	4822 122 31774	56pF 5% 50V
2124	4822 125 50045	20pF
2125	4822 122 33205	12pF 10% 63V
2126	4822 122 31769	18pF 5% 50V
2127	4822 124 41407	0,47µF 20% 63V
2128	4822 122 32862	10nF 80% 50V
2129	4822 122 31965	220pF 5% 63V
2130	4822 122 31965	220pF 5% 63V
2131	4822 122 32862	10nF 80% 50V
2132	4822 122 32862	10nF 80% 50V
2133	4822 122 31947	100nF 20% 63V
2134	4822 122 31947	100nF 20% 63V
2135	4822 122 31947	100nF 20% 63V
2136	4822 122 31947	100nF 20% 63V
2137	4822 122 32862	10nF 80% 50V
2138	4822 122 32862	10nF 80% 50V
2139	4822 124 41407	0,47µF 20% 63V
2140	4822 122 31774	56pF 5% 50V
2141	4822 122 31769	18pF 5% 50V
2142	4822 122 32444	33pF 5% 50V
2143	4822 122 32504	15pF 5% 50V
2144	4822 122 32862	10nF 80% 50V
2145	4822 124 41506	47µF 20% 16V
2146	4822 122 32504	15pF 5% 50V
2147	4822 122 32504	15pF 5% 50V
2148	4822 122 33496	100nF 10% 63V
2150	4822 122 31947	100nF 20% 63V
2151	4822 122 31772	47pF 5% 50V
2153	4822 122 32862	10nF 80% 50V
2154	4822 122 31972	39pF 5% 50V
2155	4822 125 50088	27pF
2162	4822 122 31947	100nF 20% 63V
2168	4822 122 33496	100nF 10% 63V
2169	4822 124 41506	47µF 20% 16V
2170[3]	4822 122 32597	6,8nF 10% 63V
2170	4822 122 31759	18nF
2171	4822 122 33608	39nF 10% 63V
2171[3]	4822 122 31782	15nF 10% 50V
2173	4822 122 31773	560pF 5% 50V
2174	4822 122 33498	2,7nF 10% 63V
2175	4822 122 32999	2,2N 5%
2176	4822 121 51252	470nF 5% 63V
2177	4822 122 32863	22nF 80% 50V
2180	4822 122 31759	18nF
2180[3]	4822 122 32597	6,8fF 10% 63V
2181	4822 122 33608	39nF 10% 63V
2181[3]	4822 122 31782	15nF 10% 50V
2183	4822 122 31773	560pF 5% 50V
2184	4822 122 33498	2,7nF 10% 63V
2185	4822 122 32999	2,2nF 5%
2186	4822 121 51252	470nF 5% 63V
2187	4822 122 32863	22nF 80% 50V
2188	4822 124 41506	47µF 20% 16V
2189	4822 122 32863	22nF 80% 50V
2190	4822 122 31947	100nF 20% 63V
2191	4822 124 41643	100µF 20% 16V
2192	4822 122 31947	100nF 20% 63V
2193	4822 124 40849	330µF 20% 16V
2194	4822 122 31947	100nF 20% 63V
2195	4822 124 41506	47µF 20% 16V
2196	4822 122 32862	10nF 80% 50V
2197	4822 124 41506	47µF 20% 16V
2198	4822 121 51252	470nF 5% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 122 31766	120pF 5% 50V
2203	4822 124 41509	33µF 20% 35V
2204	4822 124 41509	33µF 20% 35V
2205	4822 122 31947	100nF 20% 63V
2207	4822 121 51252	470nF 5% 63V
2209	4822 121 51252	470nF 5% 63V
2210	4822 124 41577	4,7µF 20% 50V
2211	4822 121 42408	220nF 5% 63V
2212	4822 122 31916	5,6nF 10% 63V
2213	4822 124 40195	150µF 20% 16V
2214	4822 122 31947	100nF 20% 63V
2215	4822 124 41506	47µF 20% 16V
2216	4822 122 31981	33nF 0,5pF 50V
2217	5322 121 42498	680nF 5% 63V
2218	4822 124 41643	100µF 20% 16V
2219	5322 121 42498	680nF 5% 63V
2220	4822 122 31916	5,6nF 10% 63V
2223	4822 122 31916	5,6nF 10% 63V
2224	4822 122 31981	33nF 0,5pF 50V
2225	4822 122 31782	15nF 10% 50V
2226	4822 122 31782	15nF 10% 50V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 051 10104	100k 2% 0,25W
3016	4822 100 11819	100k LIN 0,1W
3019	4822 051 10473	47k 2% 0,25W

NICAM IF/sound module (continued)

3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3030	4822 051 10223	22k 2% 0,25W
3035	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 10151	150Ω 2% 0,25W
3042	4822 051 10101	100Ω 2% 0,25W
3043	4822 050 21001	100Ω 1% 0,6W
3044	4822 051 10102	1k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3100	4822 051 10561	560Ω 2% 0,25W
3101	4822 051 10331	330Ω 2% 0,25W
3102	4822 051 10681	680Ω 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10122	1k2 2% 0,25W
3108	4822 051 20222	2k2 5% 0,1W
3109⚠	4822 053 11121	120Ω 5% 2W
3110	4822 051 10102	1k 2% 0,25W
3116	4822 051 10471	470Ω 2% 0,25W
3120	4822 051 10154	150k 2% 0,25W
3121	4822 051 10224	220k 2% 0,25W
3122	4822 051 10471	470Ω 2% 0,25W
3123	4822 051 10511	510Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10393	39k 2% 0,25W
3139	4822 051 10393	39k 2% 0,25W
3140	4822 051 10471	470Ω 2% 0,25W
3141	4822 051 10102	1k 2% 0,25W
3143	4822 051 10331	330Ω 2% 0,25W
3144⚠	4822 052 10278	2Ω7 5% 0,33W
3150	4822 051 10102	1k 2% 0,25W
3151	4822 051 10103	10k 2% 0,25W
3160	4822 051 10331	330Ω 2% 0,25W
3161	4822 051 10331	330Ω 2% 0,25W
3162	4822 051 10331	330Ω 2% 0,25W
3168⚠	4822 052 10278	2Ω7 5% 0,33W
3170	4822 051 10562	5k6 2% 0,25W
3170[3]	4822 051 10153	15K 2% 0,25W
3171	4822 051 10102	1k 2% 0,25W
3171[3]	4822 051 10272	2K7 2% 0,25W
3172	4822 051 10472	4k7 2% 0,25W
3173	4822 051 10472	4k7 2% 0,25W
3177	4822 051 10822	8k2 2% 0,25W
3177[3]	4822 051 10472	4k7 2% 0,25W
3180	4822 051 10562	5k6 2% 0,25W
3180[3]	4822 051 10153	15k 2% 0,25W
3181	4822 051 10102	1k 2% 0,25W
3181[3]	4822 051 10272	2k7 2% 0,25W
3182	4822 051 10472	4k7 2% 0,25W
3183	4822 051 10472	4k7 2% 0,25W
3188⚠	4822 052 10109	10Ω 5% 0,33W
3190	4822 051 10471	470Ω 2% 0,25W
3191⚠	4822 052 10399	39Ω 5% 0,33W
3192⚠	4822 052 10478	4Ω7 5% 0,33W
3195⚠	4822 052 10109	10Ω 5% 0,33W
3197	4822 051 10331	330Ω 2% 0,25W
3200	4822 101 11191	10k LIN 0.1W
3201	4822 051 10822	8k2 2% 0,25W
3202	4822 051 10512	5k1 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 051 10563	56k 2% 0,25W
3205⚠	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10331	330Ω 2% 0,25W
3208	4822 051 10331	330Ω 2% 0,25W
3209	4822 051 10103	10k 2% 0,25W
3210	4822 051 10102	1k 2% 0,25W
3213	4822 051 10478	4Ω7 5% 0,25W
3214	4822 051 10273	27k 2% 0,25W
3215	4822 051 10272	2k7 2% 0,25W
3216	4822 051 10333	33k 2% 0,25W
3217	4822 051 10102	1k 2% 0,25W
3218	4822 051 10101	100Ω 2% 0,25W

jumper

4000[3]	4822 051 10392	3k9 2% 0,25W
4000	4822 051 10393	39k 2% 0,25W
4199	4822 051 10008	jumper

5010	4822 157 53302	
5035	4822 157 53534	0,34µH
5036	4822 157 63824	0,36µH 38,9MHz.
5042[3]	4822 157 53634	5,6µH
5042	4822 157 62767	
5101	4822 157 52511	0,83µH
5102	4822 157 52511	0,83µH
5103	4822 157 63077	0.25µH
5129	4822 157 51238	0,82µH
5130	4822 157 51238	0,82µH
5153	4822 157 53575	3,3µH

6151	5322 130 34953	BB405B
6190	4822 130 80446	BAS32L
6191	4822 130 80954	BZV55-C5V6
6197	4822 130 81027	BZV55-C11
6220	4822 130 81015	BZV55-F10

7000	4822 209 72812	TDA2549/C4
7035	4822 130 44121	BC338
7100	4822 209 63784	TDA3857/V3
7106	4822 130 61207	BC848
7108	5322 130 42012	BC858A
7120	4822 209 62227	TA8662N
7150	4822 209 61114	CF70123
7160	5322 209 10883	PCF8574P
7168	4822 209 73236	TDA1543
7170	4822 209 83163	LM833N
7180	4822 209 83163	LM833N
7190	5322 130 41983	BC858B
7191	4822 130 44121	BC338
7195	4822 130 61207	BC848
7200	4822 209 30147	TDA8415/V2
7213	4822 209 63734	TDA8425/V7
7217	5322 130 41982	BC848B

[3] PAL I NICAM

Teletext module

	4822 212 23697	TXT MOD. europe
	4822 212 23698	TXT MOD. scan
	4822 212 23699	TXT MOD. spain
0021	4822 265 40469	6P male
0022	4822 265 40471	8P male

Various

1801	4822 242 73552	14,875MHz
1802	4822 242 71508	6MHz

2792	4822 122 33496	100µF 10% 63V
2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2799	4822 122 31965	220pF 5% 63V
2800	4822 124 40178	100µF 20% 10V
2801	4822 122 32442	10nF 50V
2802	4822 122 33205	12pF 10% 63V
2802[Exp]	4822 122 31972	39pF 5% 50V
2803	4822 122 33205	12pF 10% 63V
2803[Exp]	4822 122 31972	39pF 5% 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31965	220pF 5% 63V
2824	4822 122 32891	68µF 10% 63V
2825	4822 124 41525	100µF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47µF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2832	4822 124 41576	2,2µF 20% 50V
2833	4822 124 41576	2,2µF 20% 50V
2834	4822 124 40178	100µF 20% 10V
2836	4822 122 31965	220pF 5% 63V
2845	4822 124 40178	100µF 20% 10V
2849	4822 124 21212	15µF 20% 40V

3795	4822 051 10392	3k9 2% 0,25W
3796	4822 051 10121	120Ω 2% 0,25W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 051 10121	120Ω 2% 0,25W
3800	4822 051 10103	10k 2% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3807	4822 051 10562	5k6 2% 0,25W
3808	4822 051 10103	10K 2% 0,25W
3809	4822 051 10272	2k7 2% 0,25W
3810	4822 051 10333	33K 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W

Spare parts list / Stückliste / Liste

Teletext module (continued)

3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10271	270Ω 2% 0,25W
3814	4822 050 11002	1k 1% 0,4W
3815	4822 051 10152	1k5 2% 0,25W
3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826⚠	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10331	330Ω 2% 0,25W
3829	4822 116 52211	150Ω 5% 0,5W
3830	4822 050 28209	82Ω 1% 0,6W
3831	4822 051 10821	820Ω 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10102	1k 2% 0,25W
3834	4822 051 10681	680Ω 2% 0,25W
3835	4822 051 10561	560Ω 2% 0,25W
3836	4822 051 10473	47k 2% 0,25W
3837	4822 051 10102	1k 2% 0,25W
3838	4822 051 10273	27k 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3900	4822 051 10008	jumper
3901	4822 051 10008	jumper
3902	4822 051 10222	2k2 2% 0,25W
3903	4822 051 10222	2k2 2% 0,25W
3904	4822 051 10008	jumper
3905	4822 051 10008	jumper
3906	4822 051 10008	jumper
3908	4822 051 10008	jumper
3913	4822 051 10008	jumper
3914	4822 051 10008	jumper
3915	4822 051 10008	jumper
3917	4822 051 10008	jumper
3918	4822 051 10008	jumper
3919	4822 051 10008	jumper
3920	4822 051 10008	jumper
3921	4822 051 10008	jumper
3922	4822 051 10008	jumper
3923	4822 051 10008	jumper

5800	4822 156 20966	47µH
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60 µH
5814	4822 157 53608	10µH
5816	4822 157 52224	15µH
5834	4822 157 53001	27µH 10%
5847	4822 157 51157	3,3µH

6809	4822 130 80446	BAS32L
6810	4822 130 80446	BAS32L
6811	4822 130 80446	BAS32L
6812	4822 130 80446	BAS32L
6813	4822 130 80906	BZV55-C7V5
6814	4822 130 80446	BAS32L
6815	4822 130 80446	BAS32L
6847	4822 130 42489	BYD33G
6848	4822 130 80905	BZV55-F5V1

7800	4822 209 62479	MAB8461P /W196
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 72681	MSM5165ALRS-12
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 30556	SAA5253P/E/M3 /H
7830	4822 209 63645	SAA5231/V7
7831	4822 130 40962	BC558A
7832	4822 130 40937	BC548B
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858A

PIP module

	4822 212 23605	PIP module

Connectors

	4822 265 30828	5P female gold plated
	4822 265 40472	10P female gold plated
	4822 265 40503	5P male

Various

1155	4822 320 40051	delay line DL711
1201	4822 242 70304	crystal 8,867238 MHz
1212	4822 242 70736	crystal 7,159090 MHz

2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 41576	2,2µF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2.7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2399	4822 122 31746	1000pF 5% 50V

PIP module (continued)

2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2450	4822 122 32856	8,2nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470µF 10V
2466	4822 122 32893	100nF 80% 50V

2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	jumper
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	0Ω 5% 0,1W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52259	2k4 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3618	4822 052 10568	5Ω6 5% 0,33W
3621	4822 051 10105	1M 5% 0,25W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

Jumper

4001	4822 051 10008	jumper
4002	4822 051 10008	jumper
4003	4822 051 10008	jumper
4004	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4007	4822 051 10008	jumper
4010	4822 051 10008	jumper
4011	4822 051 10008	jumper
4012	4822 051 10008	jumper
4048	4822 051 10008	jumper
4100	4822 051 10008	jumper
4201	4822 051 10008	jumper
4401	4822 051 10008	jumper
4402	4822 051 10008	jumper
4403	4822 051 10008	jumper
4404	4822 051 10008	jumper
4406	4822 051 10008	jumper
4407	4822 051 10008	jumper
4415	4822 051 10008	jumper

5118	4822 157 60435	10,3µH 6%
5155	4822 157 60433	7,2µH 6%
5157	4822 157 60434	9,4µH 6%
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

6300	4822 130 80906	LLZ-C7V5

7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7126	4822 209 30389	TDA4510/V8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2Ω
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8