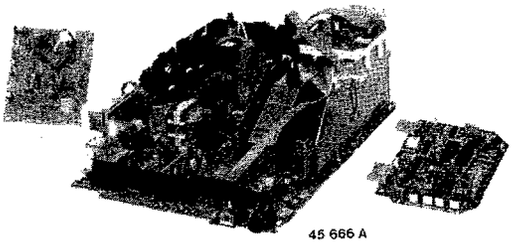
AA

Service
Service
Service


45 666 A

ServiceManual

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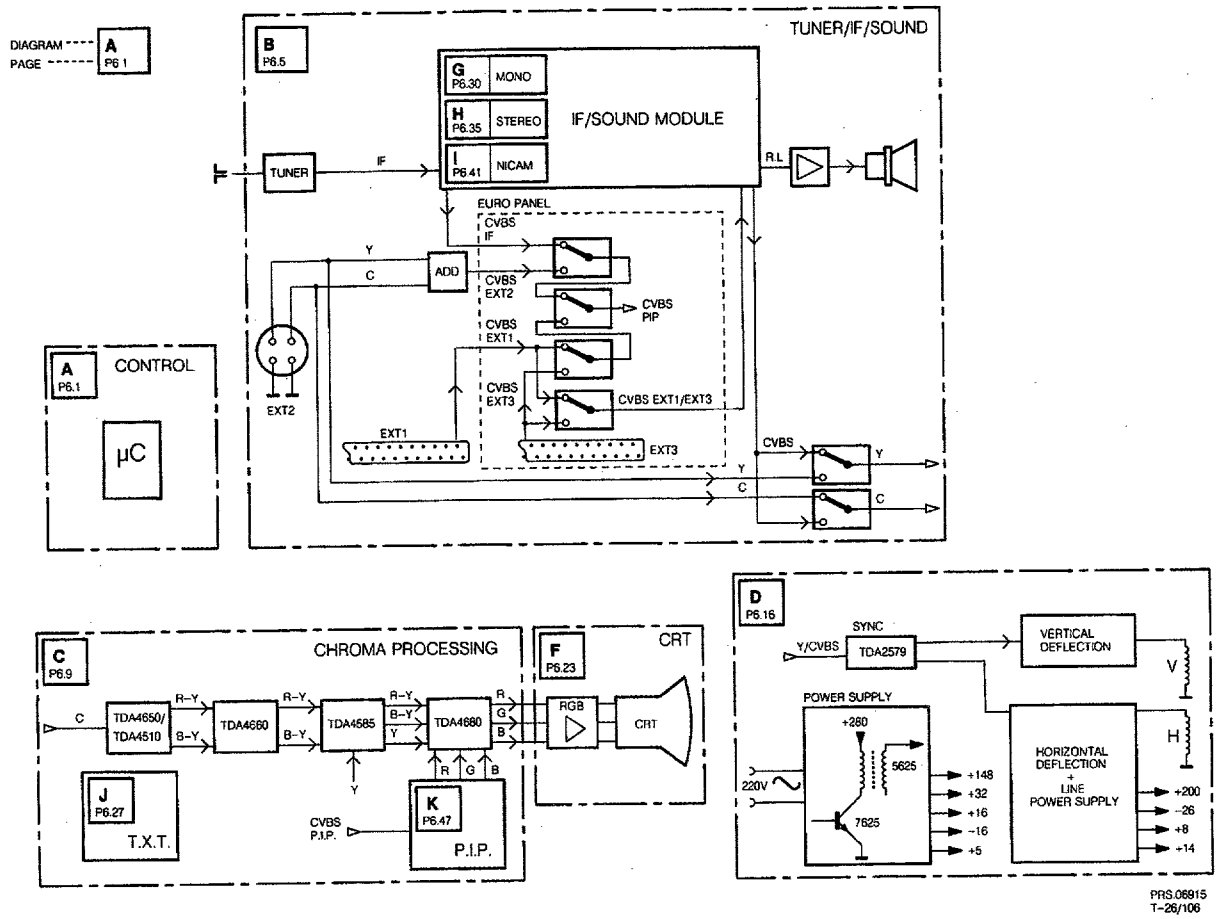
GB 4822 727 18334

Block diagram



Technical data

Mains voltage	: 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

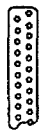
Indications:

- 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 (0.5 V_{RMS}; ⩽ 1 kΩ)
2 – Audio →⊖ R (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
3 – Audio ⊖→ L (0.5 V_{RMS}; ⩽ 1 kΩ)
4 – Audio ⊥
5 – Blue ⊥
6 – Audio →⊖ L (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
7 – Blue →⊖ (0.7 V_{pp}; 75 Ω)
8 – RC5 ⊖→ (500-800 mV_{pp}) + CVBS status 1 →⊖ (0-2 V: int.; 9.5-12 V: ext.)
9 – Green ⊥
10 – –
11 – Green →⊖ (0.7 V_{pp}; 75 Ω)
12 – –
13 – Red ⊥
14 – –
15 – Red →⊖ (0.7 V_{pp}; 75 Ω)
16 – RGB status →⊖ (0-0.4 V: int.; 1-3 V: ext.; 75 Ω)
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1 V_{pp}; 75 Ω)
20 – CVBS →⊖ (1 V_{pp}; 75 Ω)
21 – Earth screen

EXT2

1 – ⊥
2 – ⊥
3 – Y →⊖ (1 V_{pp}; 75 Ω)
4 – C →⊖ (1 V_{pp}; 75 Ω)

2x ◎ CINCH Audio →⊖ L + R (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)

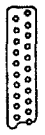
Audio out

2x ◎ CINCH Audio ⊖→ L + R (0.5 V_{RMS}; ⩽ 1 kΩ)

Front

◎ 6.3mm / 🎧 Ø 3,5 mm
⩾ 8 Ω

EXT3



1 – Audio ⊖→ R (0.5 V_{RMS}; ⩽ 1 kΩ)
2 – Audio →⊖ R (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
3 – Audio ⊖→ L (0.5 V_{RMS}; ⩽ 1 kΩ)
4 – Audio ⊥
5 – –
6 – Audio →⊖ L (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
7 – –
8 – CVBS status 3 →⊖ (0-2 V: int.; 9.5-12 V: ext.)
9 – –
10 – –
11 – –
12 – –
13 – –
14 – –
15 – –
16 – –
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1 V_{pp}; 75 Ω)
20 – CVBS →⊖ (1 V_{pp}; 75 Ω)
21 – Earth screen

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.

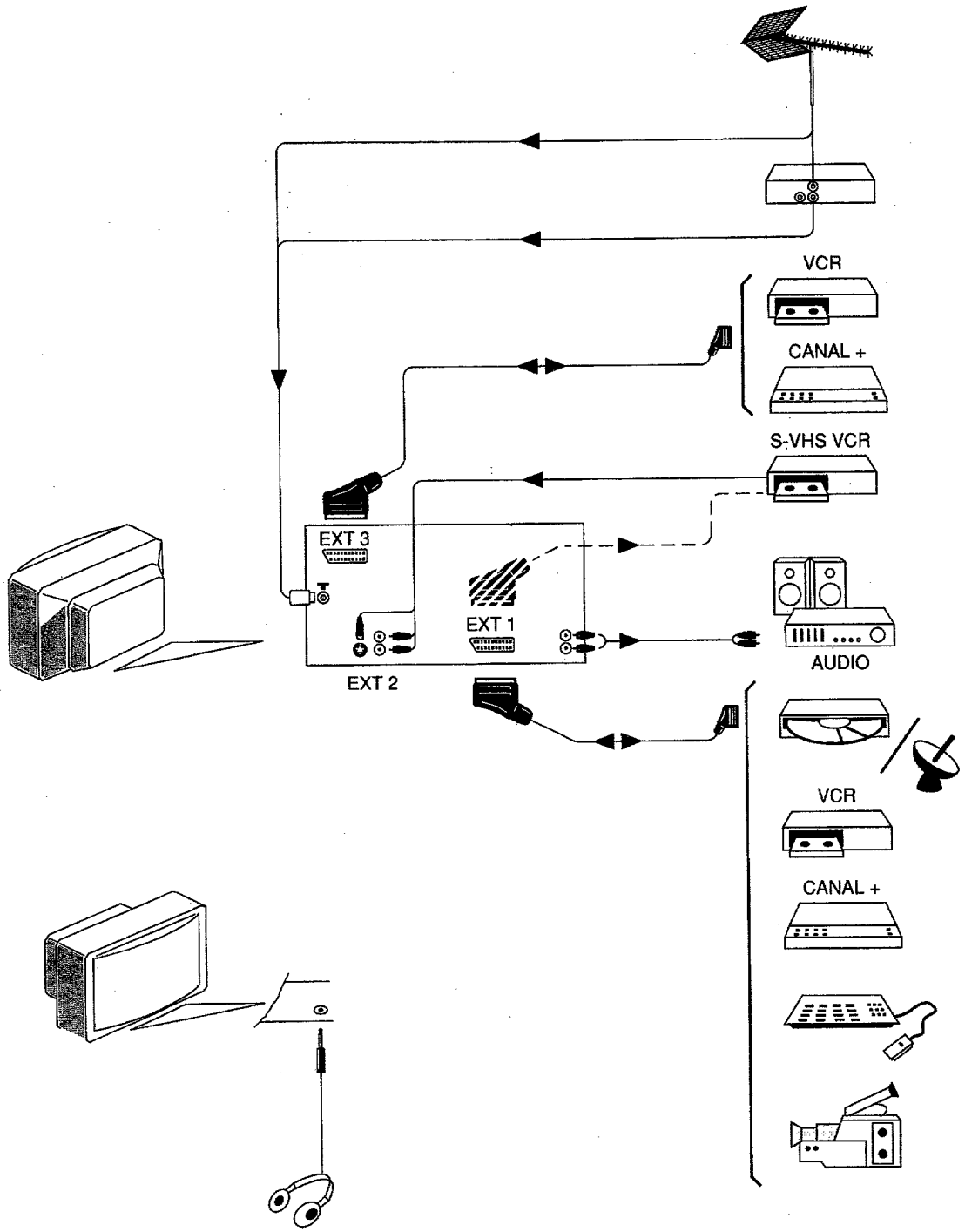


Fig. 2.1

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 direct voltages and oscillograms should be measured with regard to the tuner earth (⊥), or hot earth (⊥ ϟ) as this is called.

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 (①) 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 discussed 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.

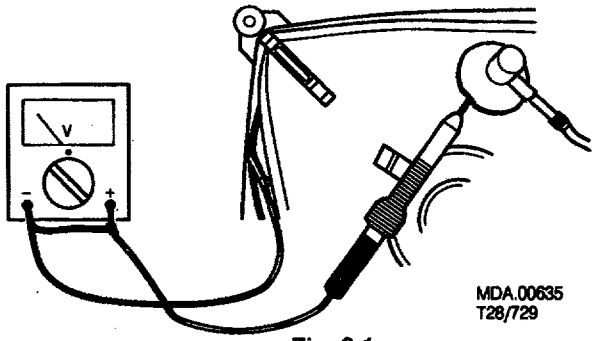


Fig. 3.1

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!

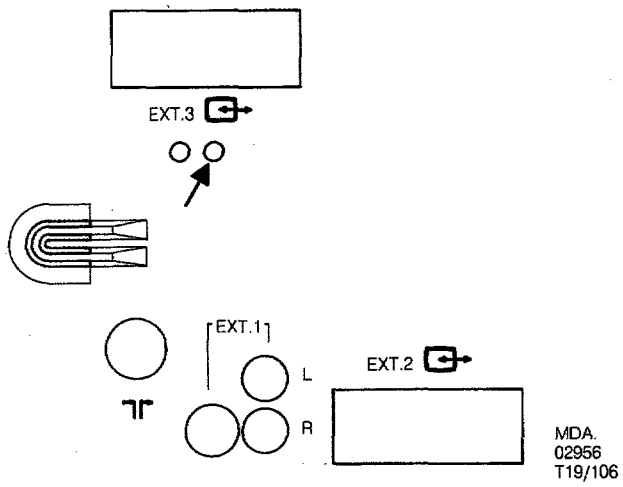


Fig. 4.1

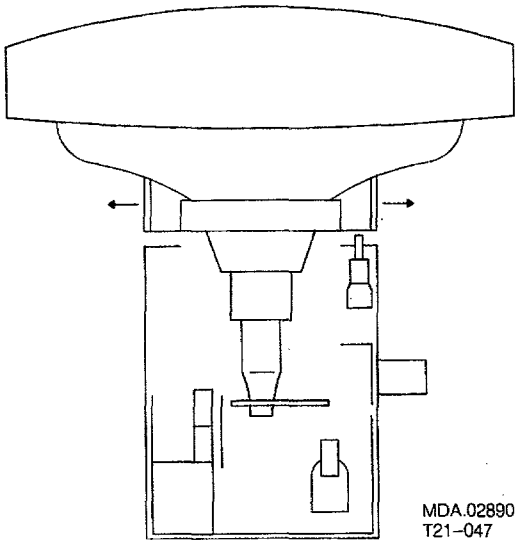


Fig. 4.2

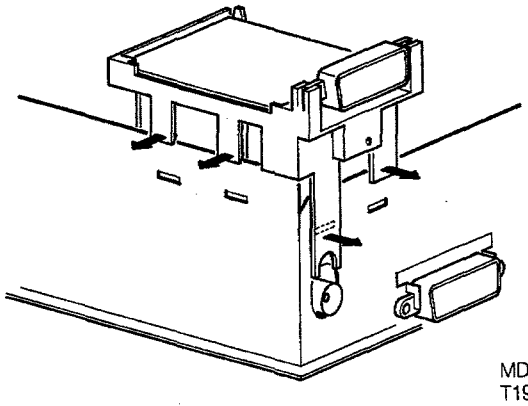


Fig. 4.3

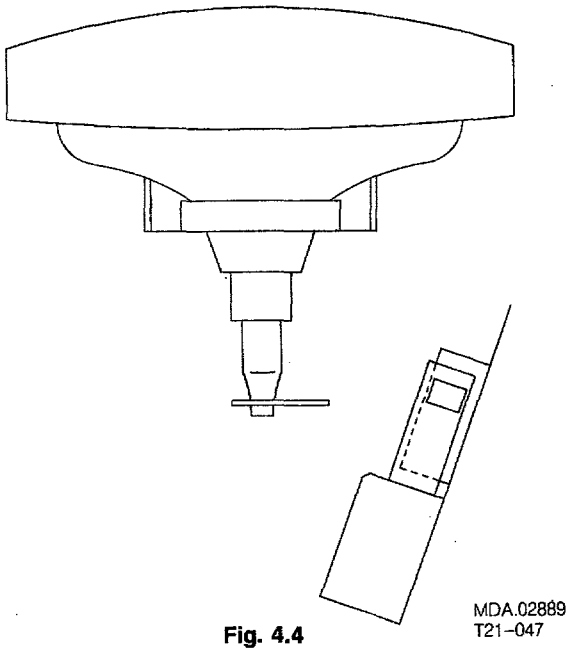
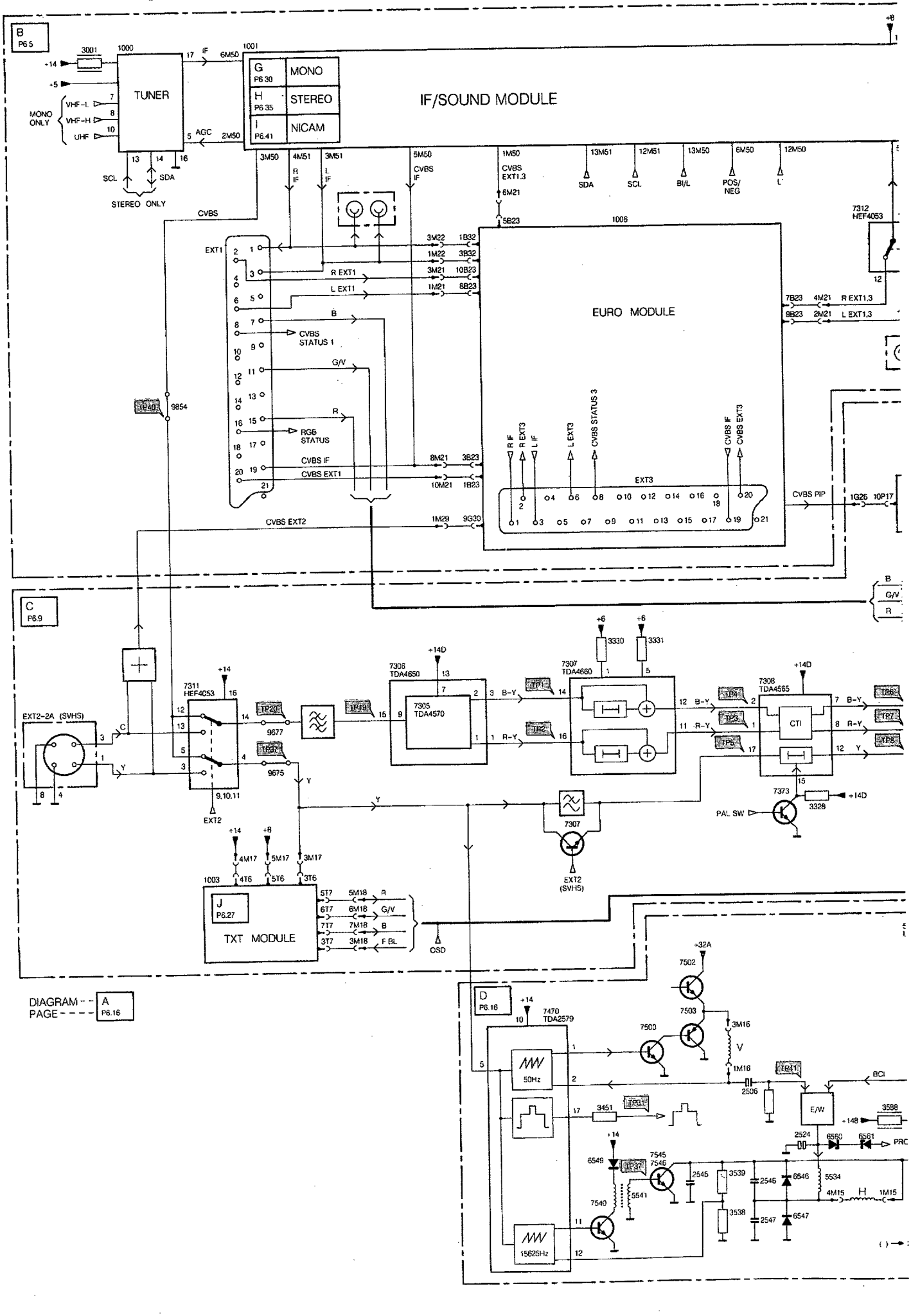
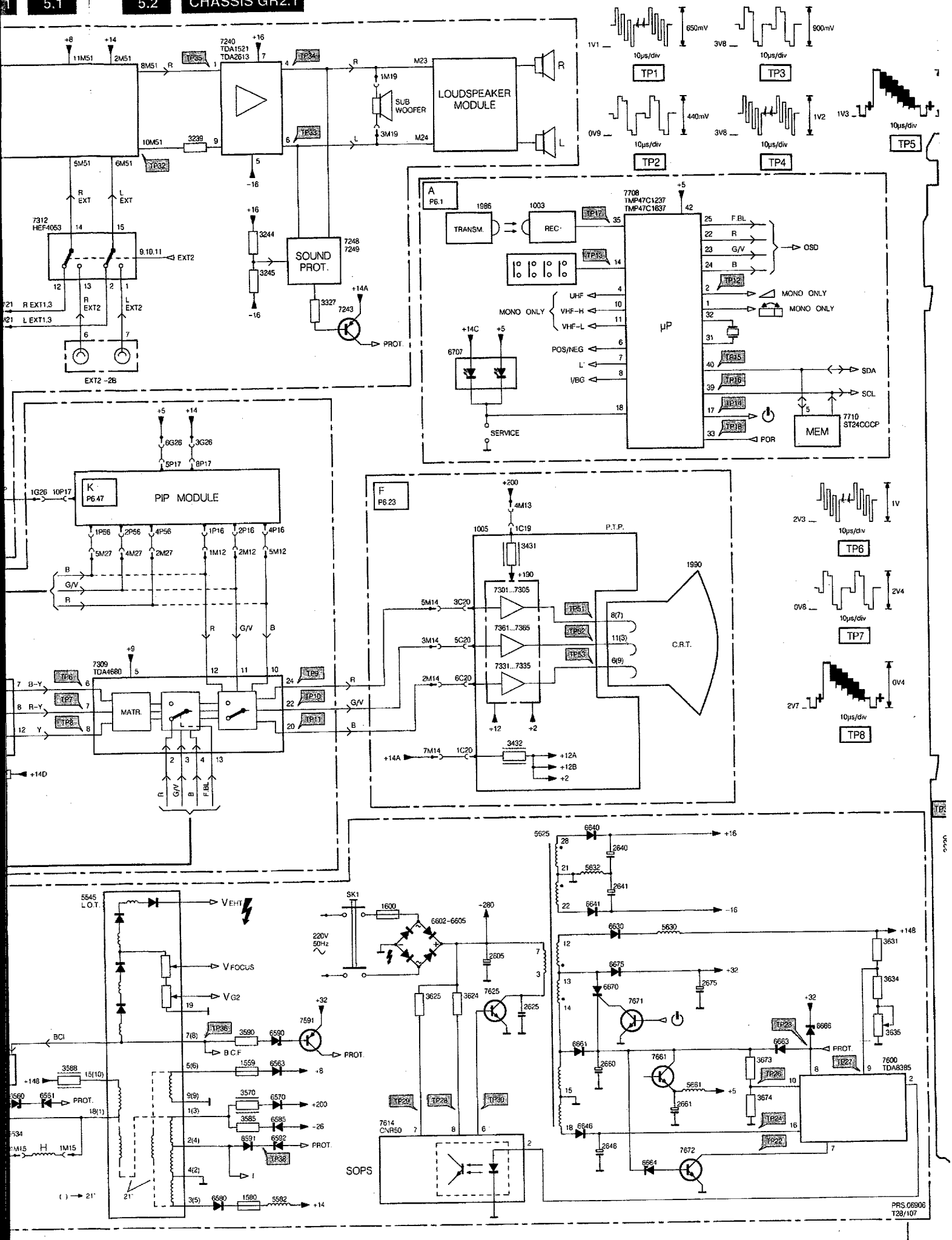
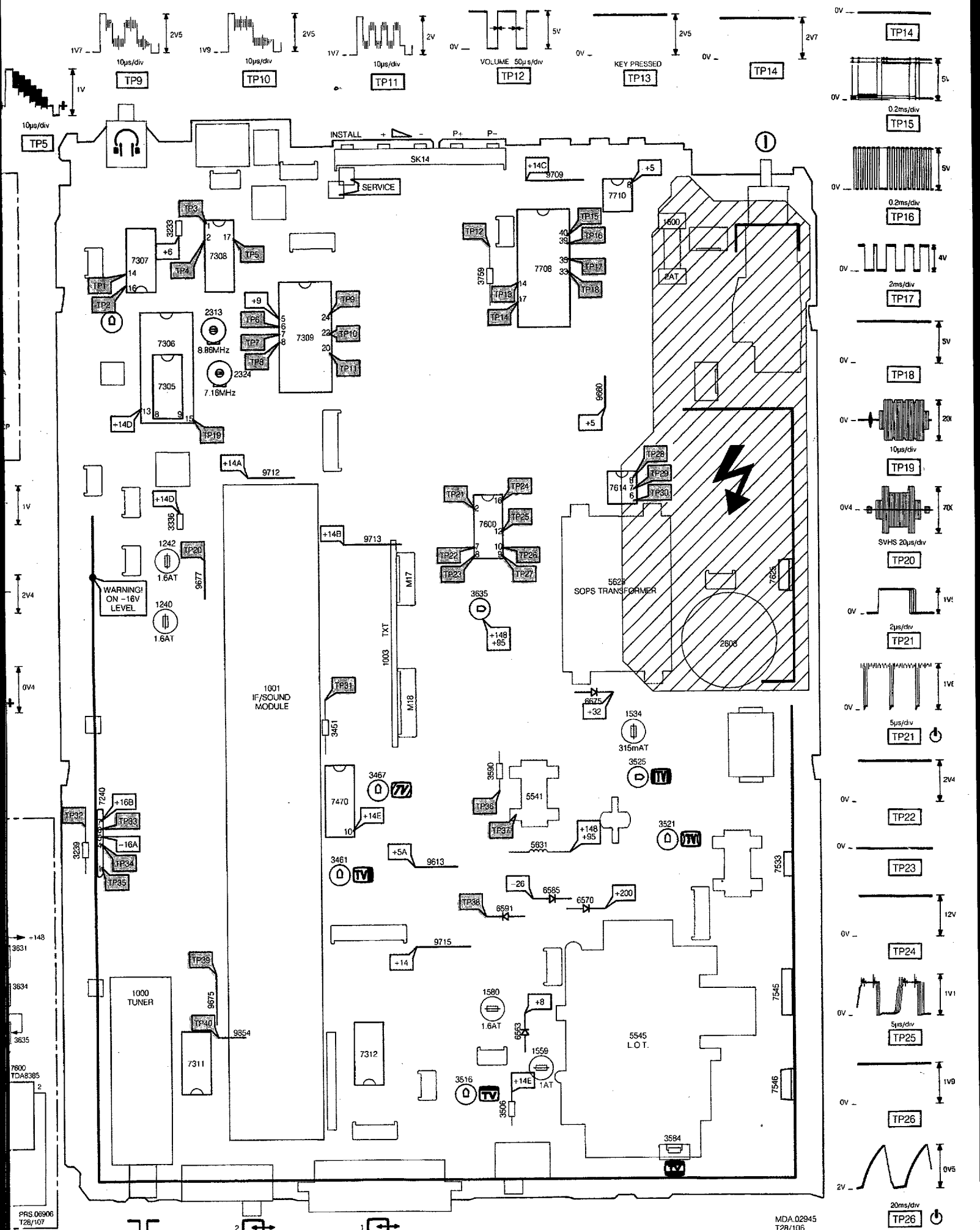


Fig. 4.4

Blockdiagram / Blockschaltbild / Schéma-bloc




LOUDSPEAKER MODULE
SUB WOOFER
SOUND PROT.
TDA1521 TDA2613
HEF4053
TRANSM.
REC.
TMP47C1237 TMP47C1637
μP
MEM
ST24CCCP
PIP MODULE
TDA4680
MATR.
C.R.T.
P.T.P.
SOPS
TDA8395
LOT.
SERVICE
POR
PROT.
OSD
MONO ONLY
SDA
SCL
EXT2
EXT2 -2B
650mV
900mV
440mV
10µs/div
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
PRS.06906
T28/107


TP9
TP10
TP11
TP12
VOLUME 50µs/div
TP13
KEY PRESSED
TP14
TP5
INSTALL
SK14
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1001
IF/SOUND
MODULE
1000
TUNER
7600
TDA8385
7307
7308
7306
7305
7309
8.86MHz
7.16MHz
7708
7710
7614
7600
7470
7311
7312
5545
L.O.T.
5625
SOPS TRANSFORMER
2608
5541
5631
1600
2AT
1.6AT
315mAT
1003 TXT
M17
M18
WARNING!
ON -16V
LEVEL
PRS.06906
T28/107
MDA.02945
T28/106
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TP19
TP20
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TP22
TP23
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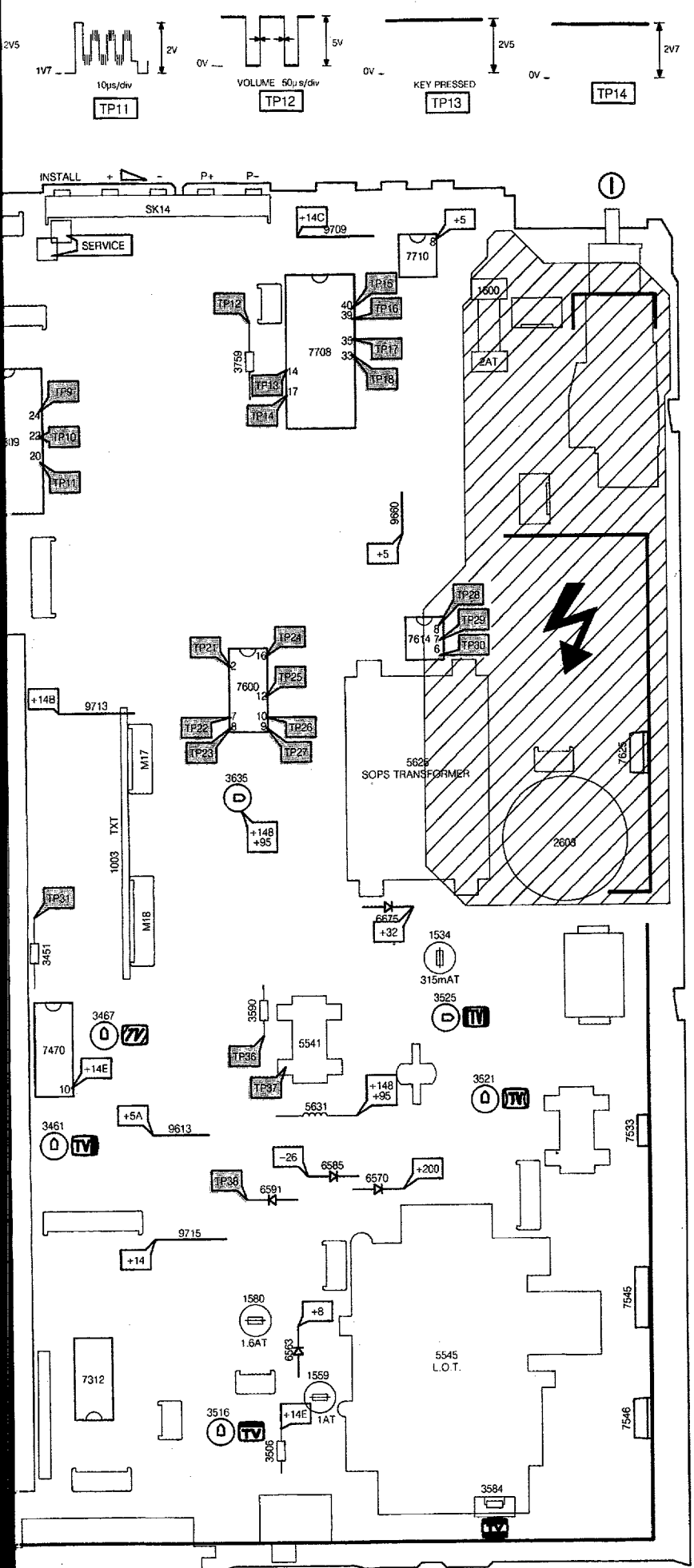
TP25
TP26


TP11
TP12
VOLUME 50µs/div
TP13
KEY PRESSED
TP14
INSTALL
SK14
SERVICE
+14C
9709
+5
7710
1600
2AT
7708
3759
9660
7614
5625
SOPS TRANSFORMER
2608
7625
+14B
9713
7600
1003
TXT
M17
M18
3635
+148
+95
6675
+32
1534
315mAT
3525
3590
5541
5631
3467
7470
+14E
+5A
9613
3461
-26
6585
6570
+200
6591
9715
+14
1580
1.6AT
+8
6563
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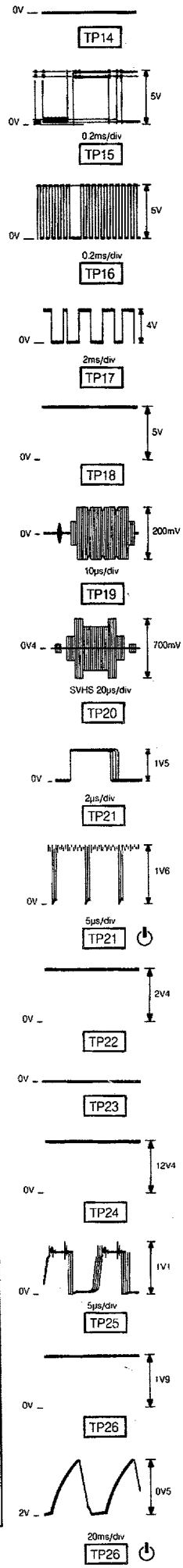
T28/106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0.2ms/div
TP16
TP17
2ms/div
TP18
TP19
10µs/div
TP20
SVHS 20µs/div
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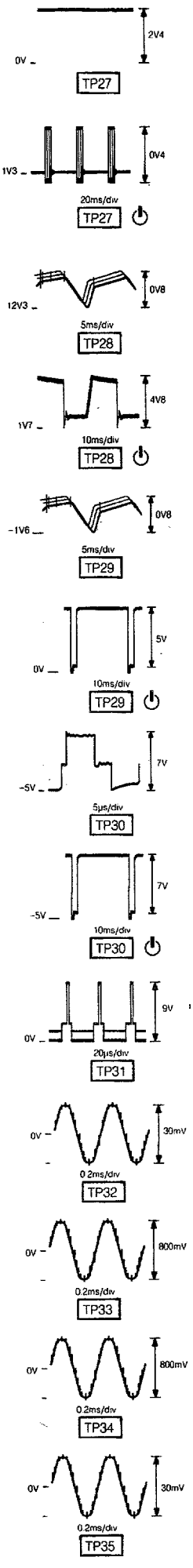
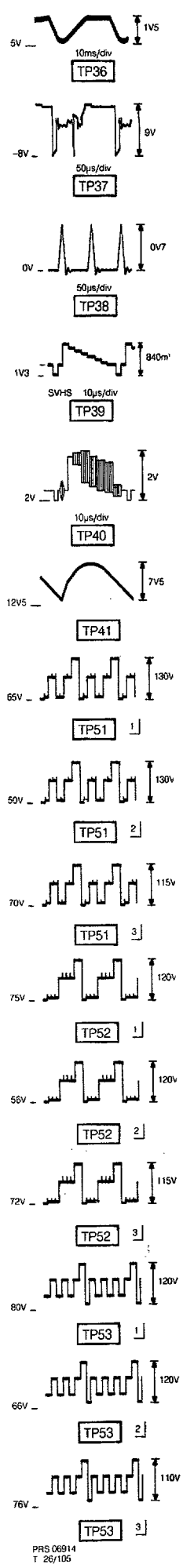
TP22
TP23
TP24
TP25
5µs/div
TP26
20ms/div


TP27
TP27
20ms/div
TP28
5ms/div
TP28
10ms/div
TP29
5ms/div
TP29
10ms/div
TP30
5µs/div
TP30
10ms/div
TP31
20µs/div
TP32
0.2ms/div
TP33
0.2ms/div
TP34
0.2ms/div
TP35


TP36
10ms/div
TP37
50µs/div
TP38
50µs/div
TP39
SVHS 10µs/div
TP40
10µs/div
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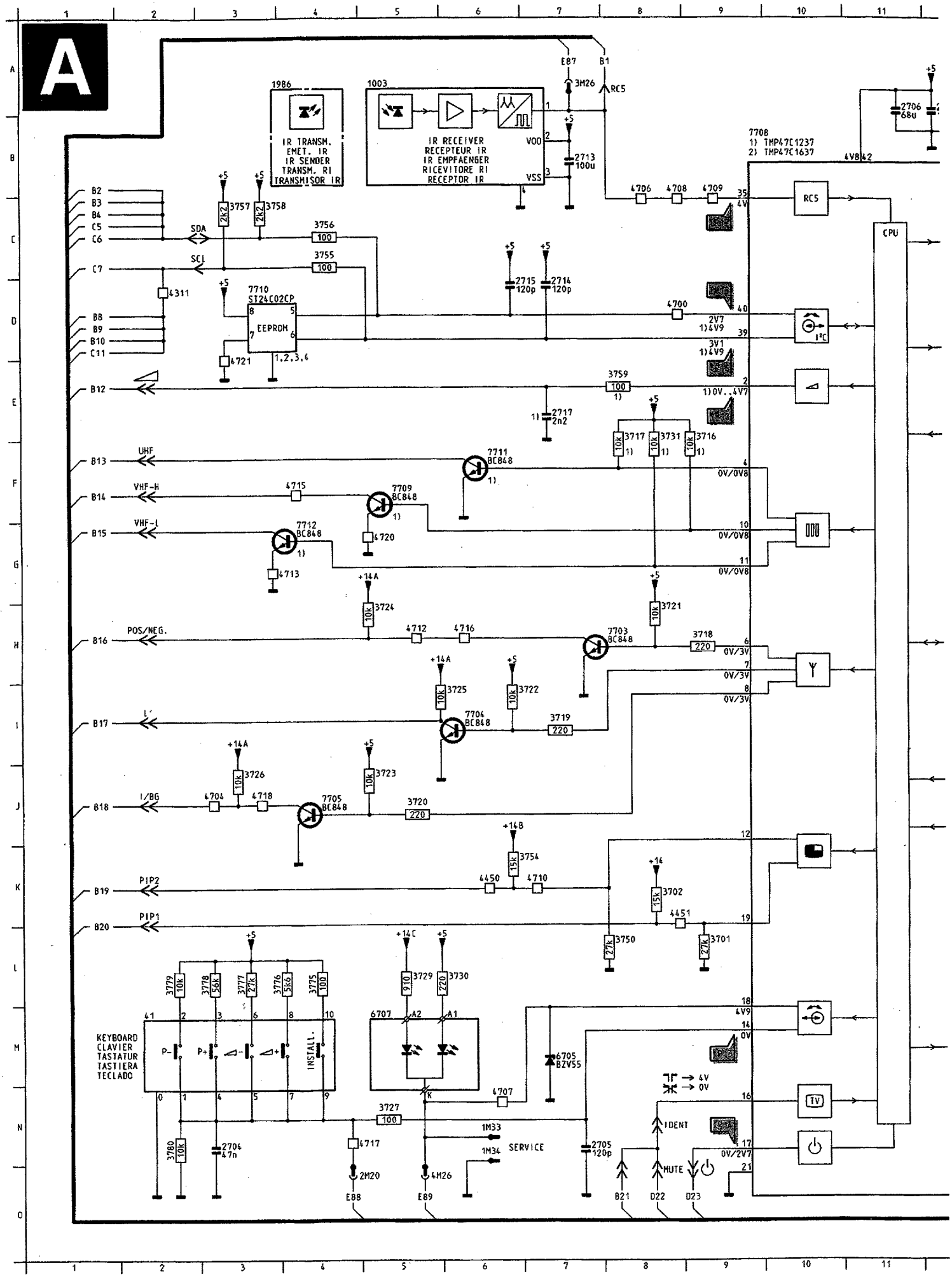
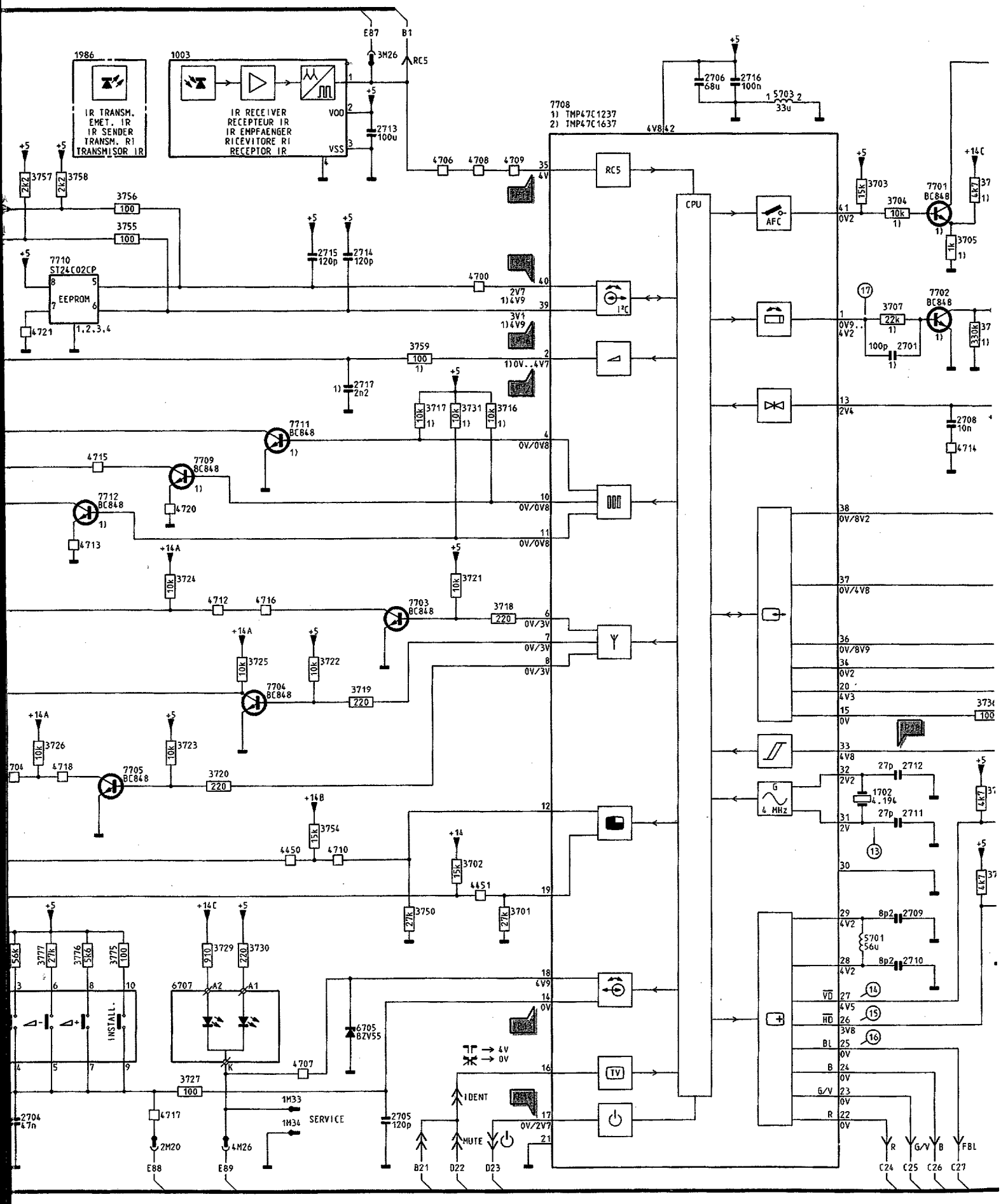
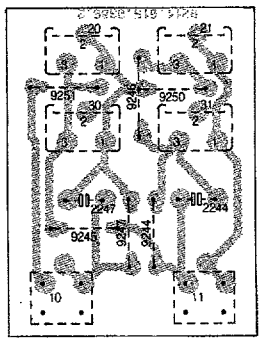
T 26/105


A
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
7710
SI24C02CP
EEPROM
7708
1) TMP47C1237
2) TMP47C1637
CPU
RC5
SDA
SCL
UHF
VHF-H
VHF-L
POS/NEG.
PIP2
PIP1
I/BG
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
INSTALL.
SERVICE
IDENT
MUTE
7711 BC848
7709 BC848
7712 BC848
7703 BC848
7704 BC848
7705 BC848
6705 BZV55
E87
E88
E89
B1
B21
D22
D23

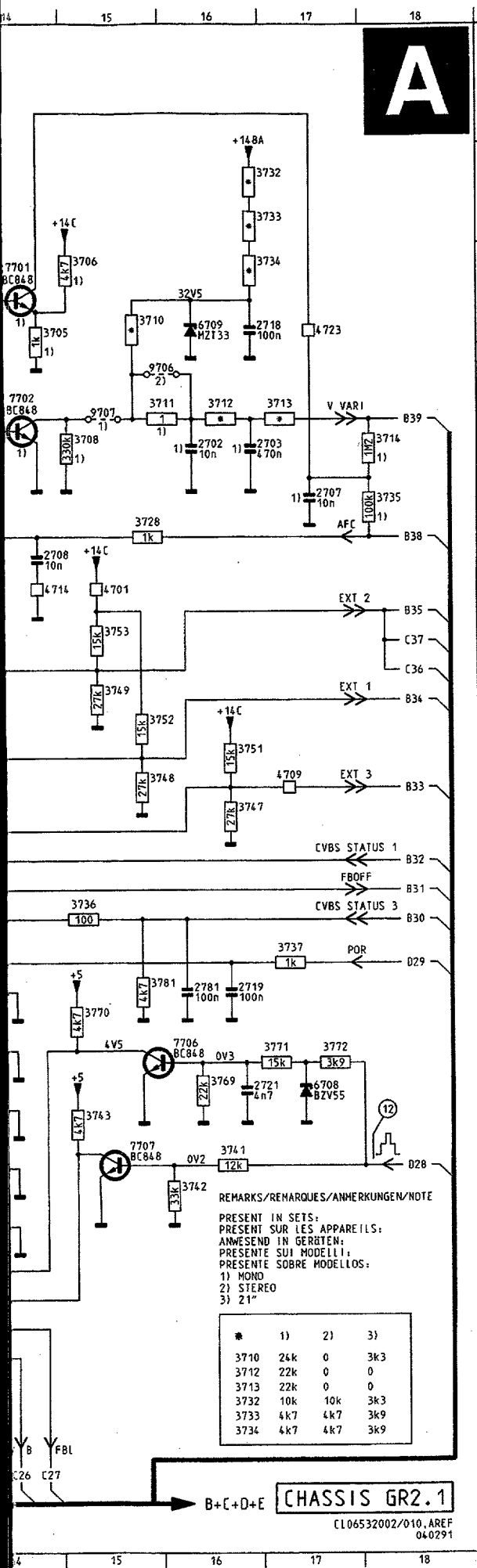
Controls / Bedienung / La Commande



Loudspeaker module
Lautsprecher-Platte
Module haut parleur



PCB.03166
T28/104



1003	A 5	7703	H 8		
1702	J13	7704	I 6		
1986	A 3	7705	J 4		
2701	E14	7706	K16		
2702	E16	7707	L15		
2703	E17	7708	B 9		
2704	N 3	7709	F 5		
2705	N 7	7710	D 3		
2706	A11	7711	F 6		
2707	E17	7712	G 4		
2708	F14	9706	D16		
2709	L14	9707	D15		
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2711	K14				
2712	J14				
2713	B 7				
2714	D 7				
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2718	C17				
2719	J16				
2721	K16				
2781	J16				
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3702	K 8				
3703	C13				
3704	C14				
3705	C14				
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3710	C15				
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3772	K17				
3775	L 4				
3776	L 4				
3777	L 3				
3778	L 3				
3779	L 3				
3780	N 3				
3781	J15				
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4311	D 2				
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4451	K 8				
4700	D 8				
4701	F15				
4704	J 3				
4706	C 8				
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4708	C 8				
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4710	K 7				
4712	H 5				
4713	G 4				
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4723	C17				
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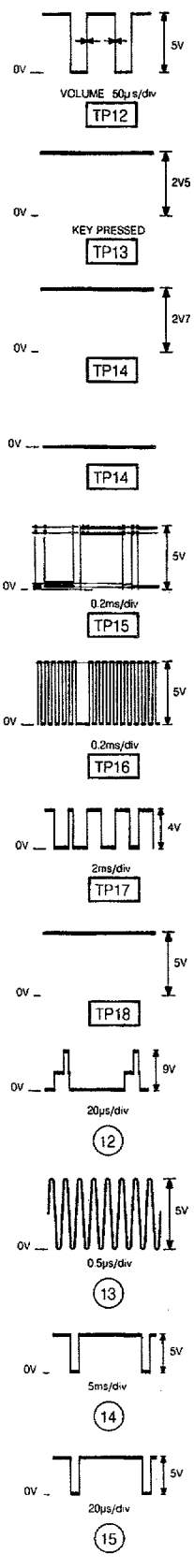
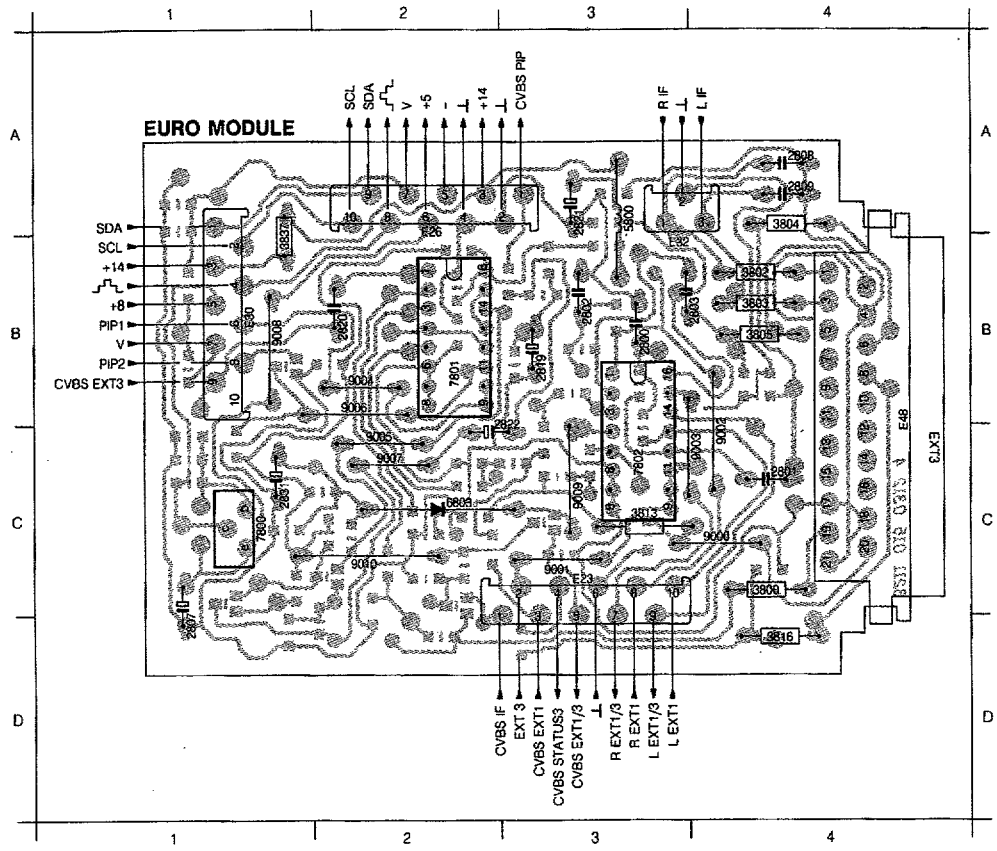
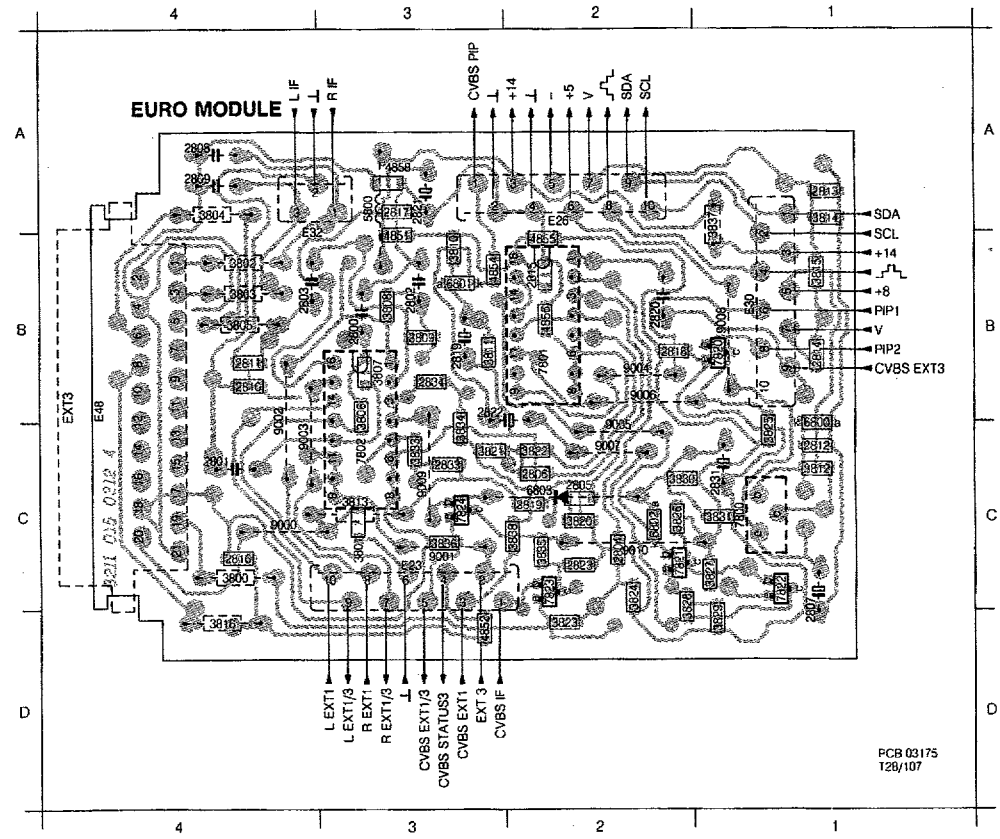


PRS 06912
T 26/105

Euro module
Euro-AV-Platte
Module Prise Péritélévision





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9002 C4
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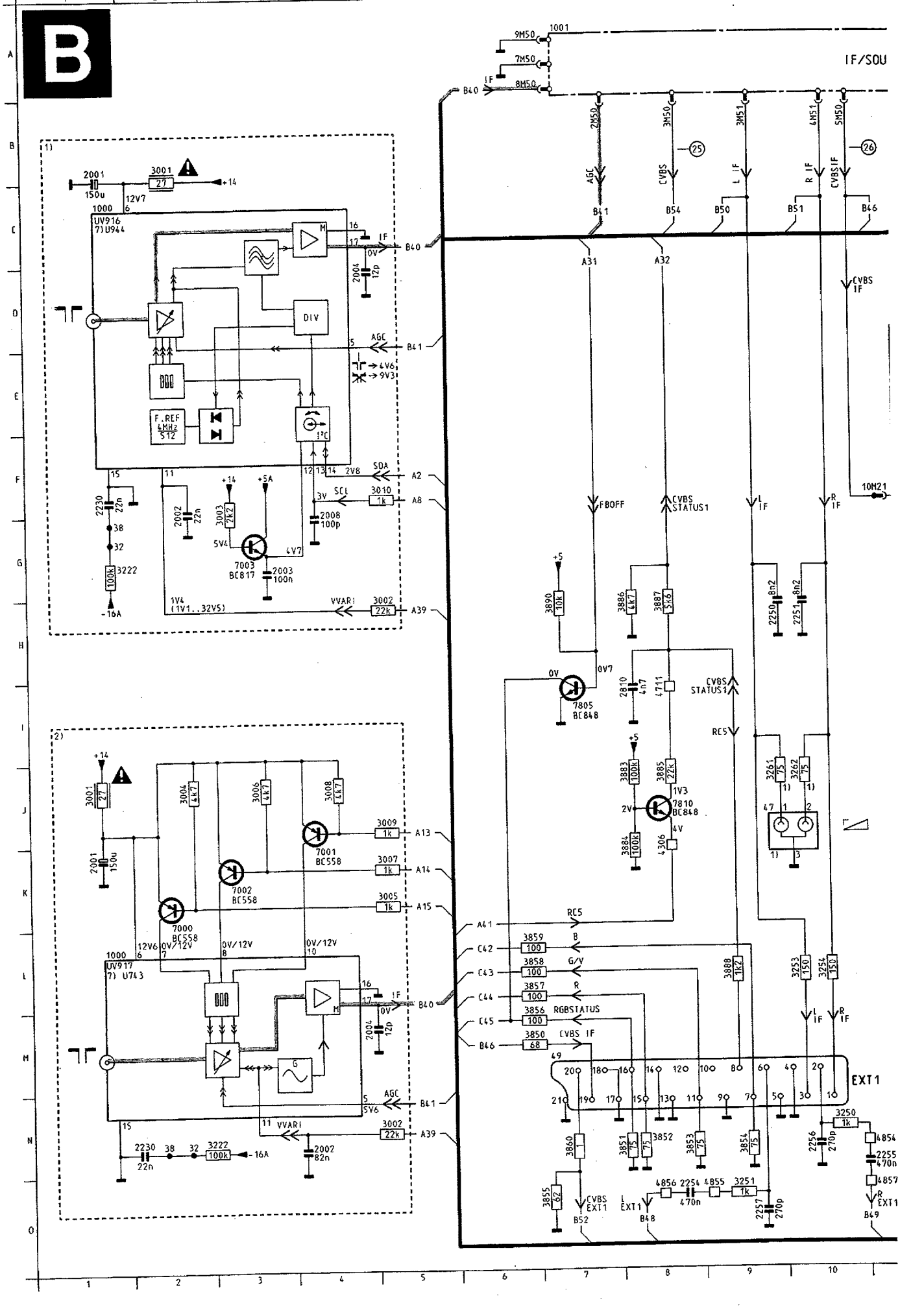
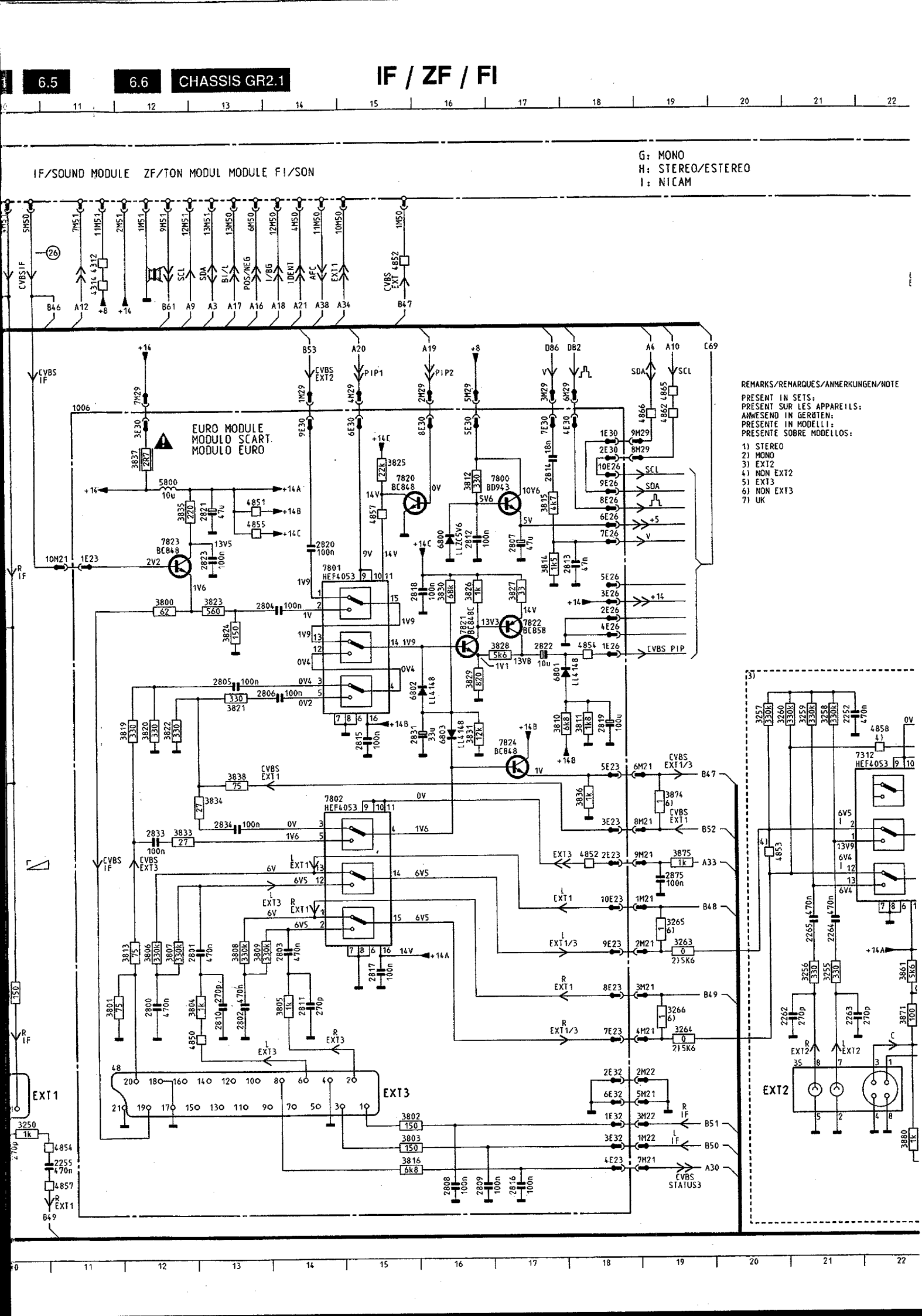
Tuner / Kanalwähler / Sélecteur



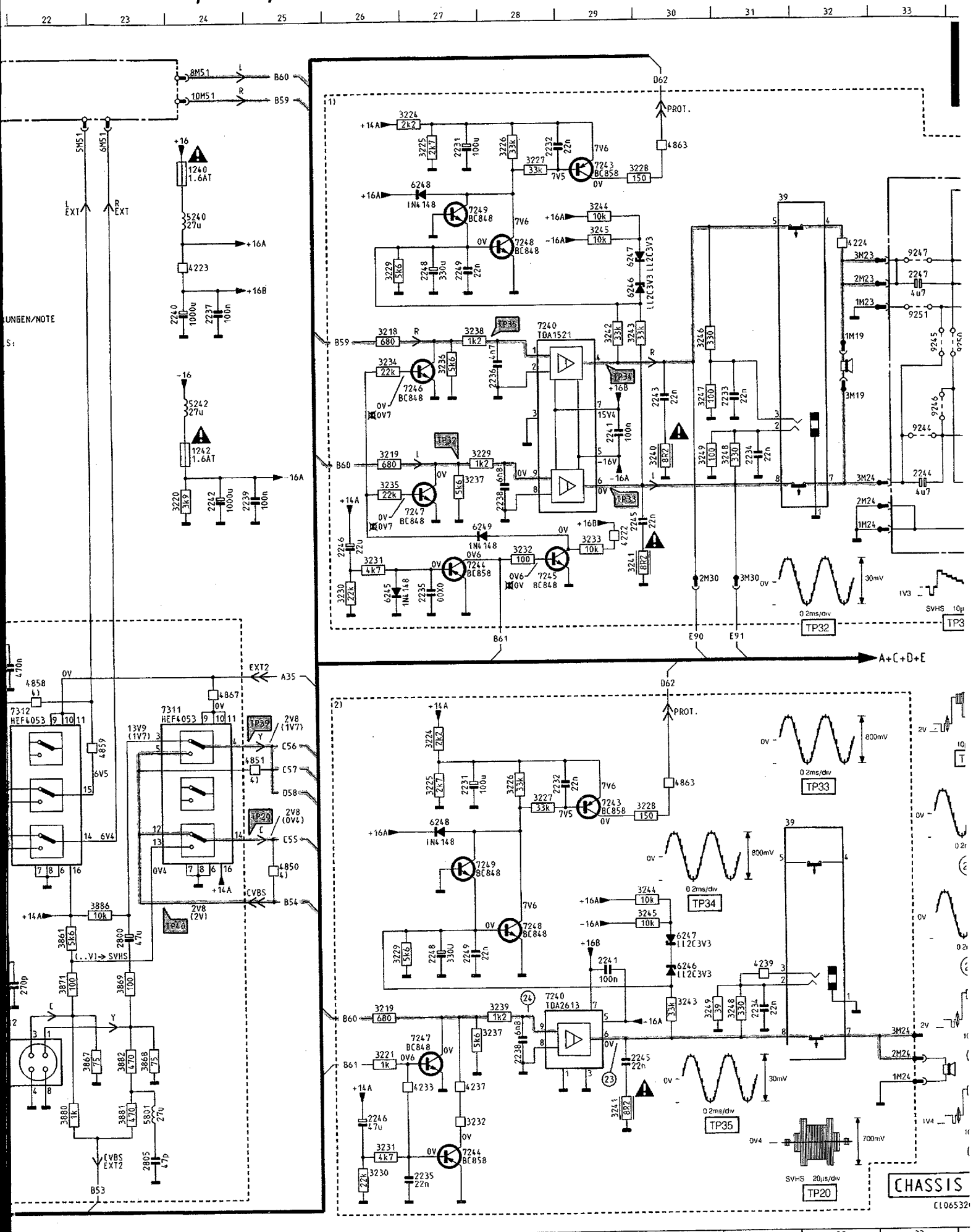
IF / ZF / FI

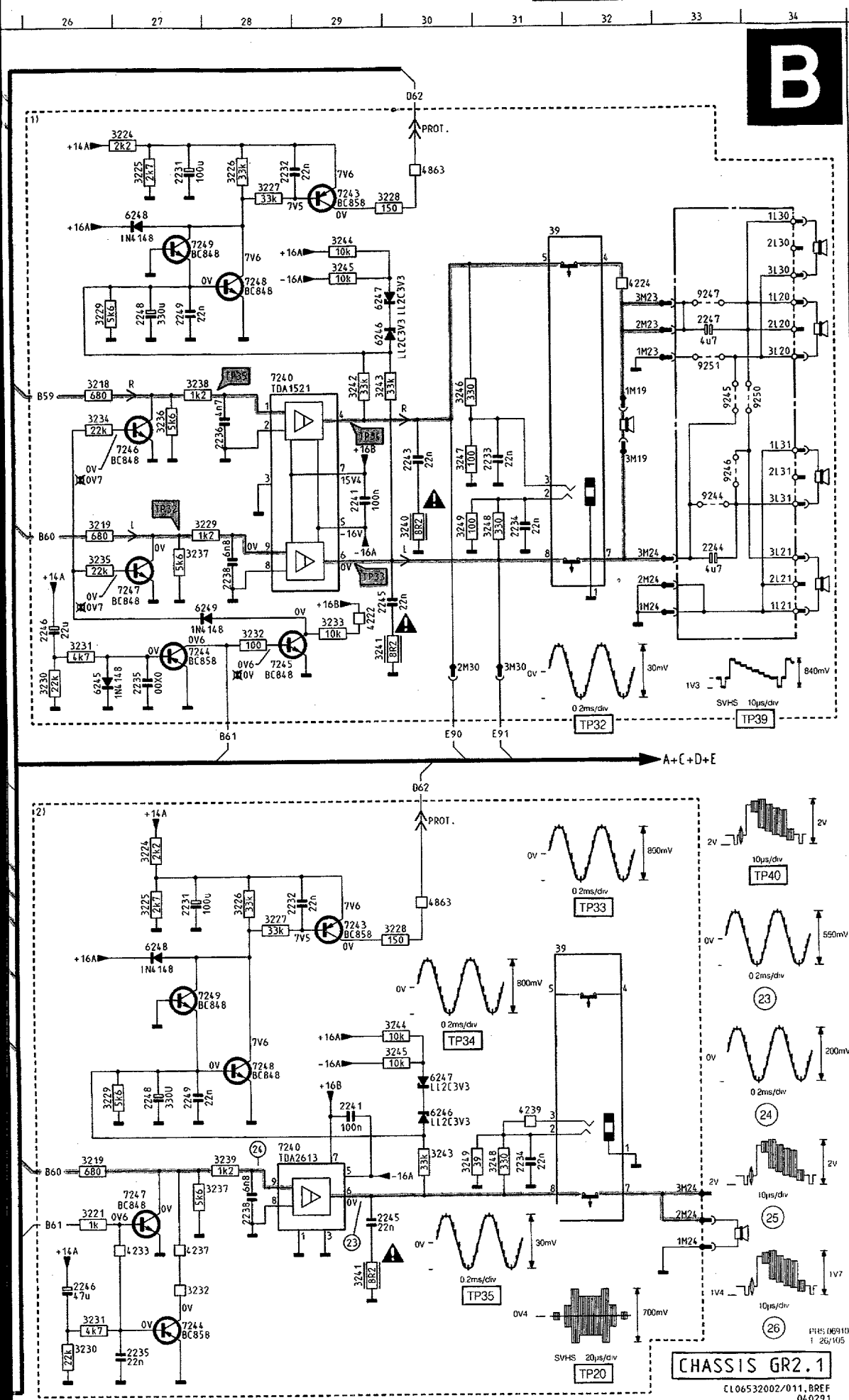
IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON

G: MONO
H: STEREO/ESTEREO
I: NICAM



Sound / Ton / Son





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A 1240	B24	3230	H26	4237	N27
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2001	B 1	3232	N27	4312	B11
2002	N 4	3232	G28	4314	C11
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B 2004	D 4	3236	E27	4850	M13
2008	G 4	3237	M27	4850	K25
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2230	F 1	3238	D27	4851	J25
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2236	E28	3245	L30	4857	O11
2237	D24	3245	C29	4858	I22
D 2238	M28	3246	D30	4859	I23
2238	F28	3247	E30	4862	D19
2239	F25	3248	M31	4863	J30
2240	D24	3248	F31	4863	B30
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2241	F29	3249	F30	4866	D19
2242	F24	3250	N10	4867	I24
2243	E30	3251	O 9	4900	M 7
E 2244	F33	3253	L10	5240	C24
2245	N29	3254	L10	5242	E24
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2247	D33	3258	H21	6246	L30
2248	L27	3259	H21	6246	D30
F 2248	C27	3260	H21	6247	L30
2249	L27	3261	J 9	6247	C30
2249	C27	3262	J10	6248	B27
2250	H 1	3263	L19	6248	K27
2251	H10	3264	M19	6249	G28
2252	H21	3265	K19	6800	F16
2254	O 8	3266	L19	6801	H18
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G 2256	N10	3801	L11	6803	I16
2257	O 9	3802	N15	7000	K 2
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H 2800	L23	3808	L13	7243	J29
2801	L13	3809	L13	7243	B29
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2804	G14	3812	E16	7245	G29
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I 2807	F17	3816	N15	7248	L28
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2809	O16	3820	I12	7249	K27
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2810	L13	3822	I12	7311	I23
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2812	F16	3824	G13	7800	E17
J 2813	F18	3825	E15	7801	F14
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3002	N 5	3854	N 9		
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3004	J 2	3857	L 6		
3005	K 5	3858	L 6		
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M 3007	K 5	3860	N 7		
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O 3226	J28	3886	L23		
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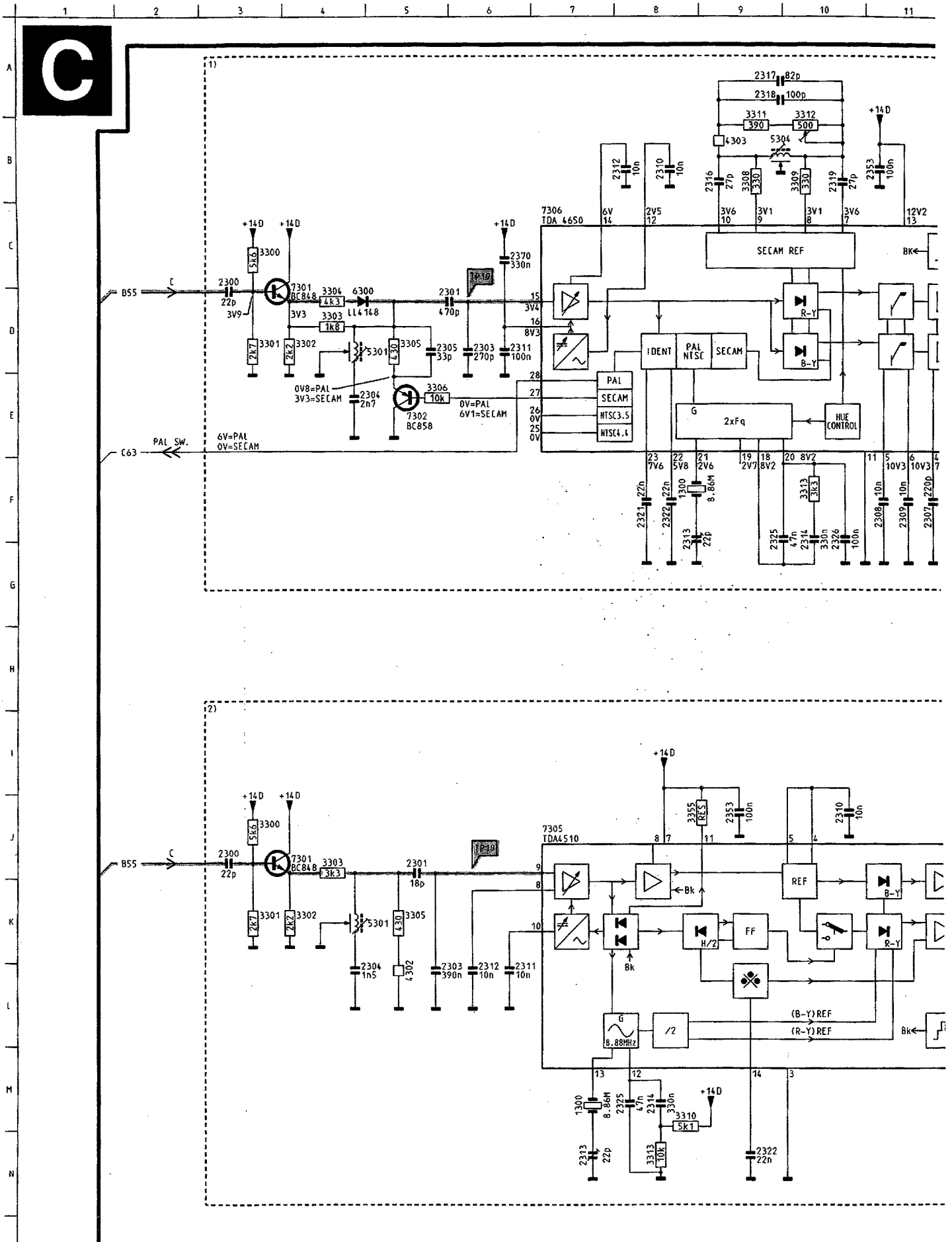
Video

C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SECAM
R-Y
B-Y
2xFq
HUE CONTROL
PAL
SECAM
NTSC3.5
NTSC4.4
REF
FF
H/2
8.86MHz
/2
(B-Y)REF
(R-Y)REF
B55
C63
PAL SW.
6V=PAL
0V=SECAM
0V8=PAL
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6V1=SECAM
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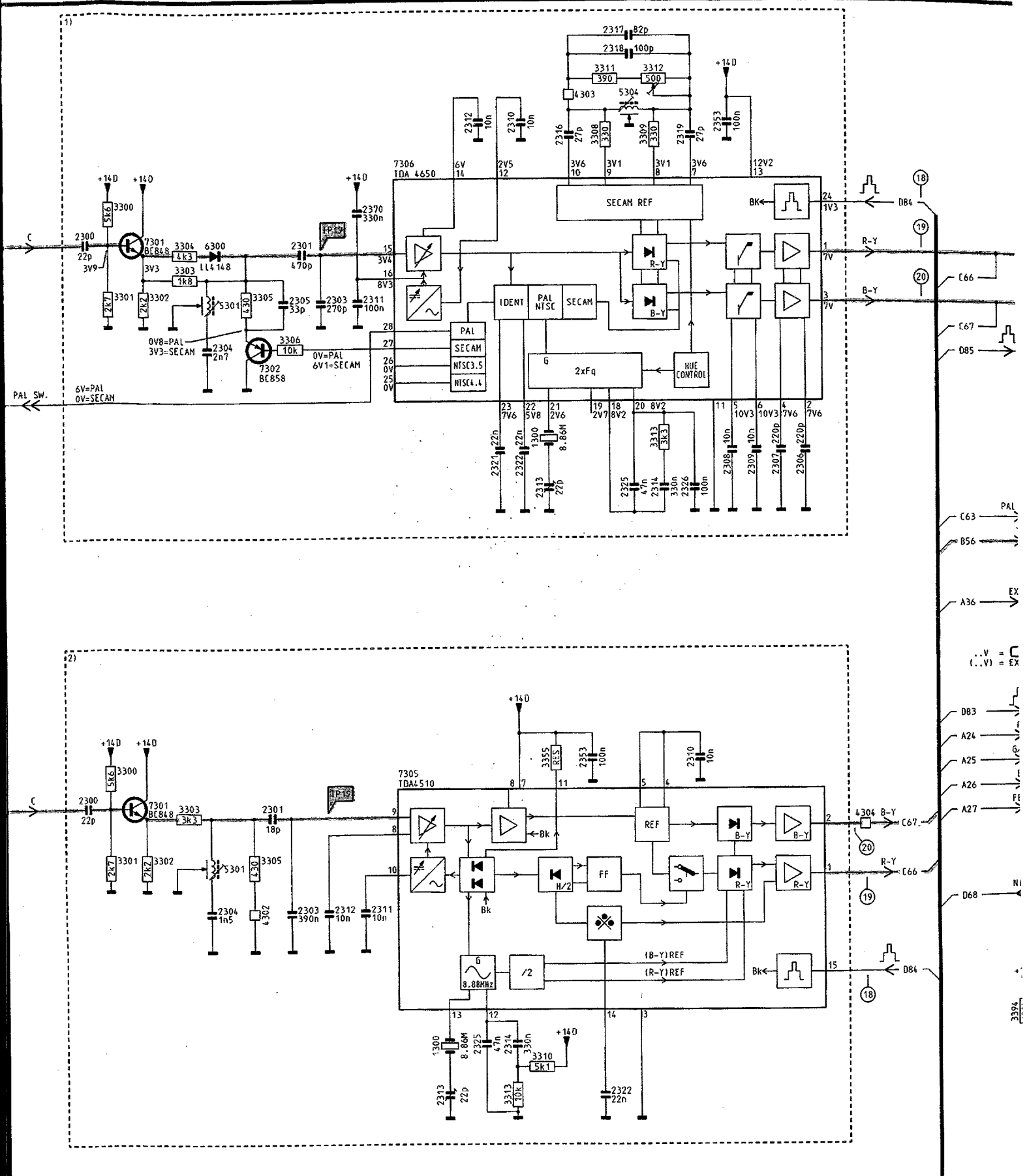
7302 BC858
LL4148
+14D
Bk

Video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NTSC4.4
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BC848
7302
BC858
LL4148
+14D
C
PAL SW.
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0V=SECAM
0V8=PAL
3V3=SECAM
0V=PAL
6V1=SECAM
2)
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/2
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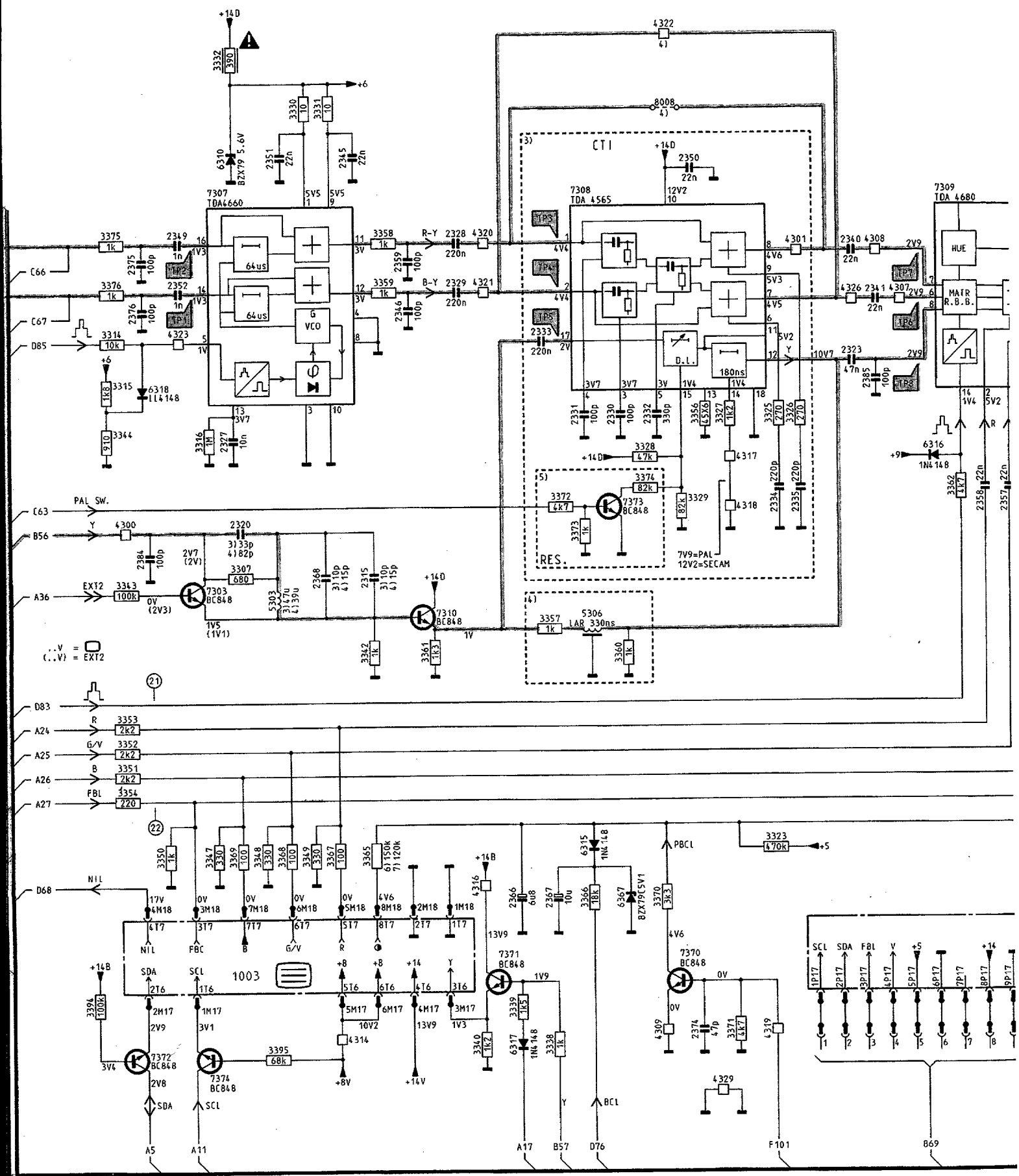
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CTI
64us
VCO
D.L.
180ns
HUE
MATR R.B.B.
RES.
7V9=PAL
12V2=SECAM
PAL SW.
EXT2
1003
SDA
SCL
NIL
FBC
B
G/V
R
Y
FBL
V
PBCL
BCL
A5
A11
A17
B57
D76
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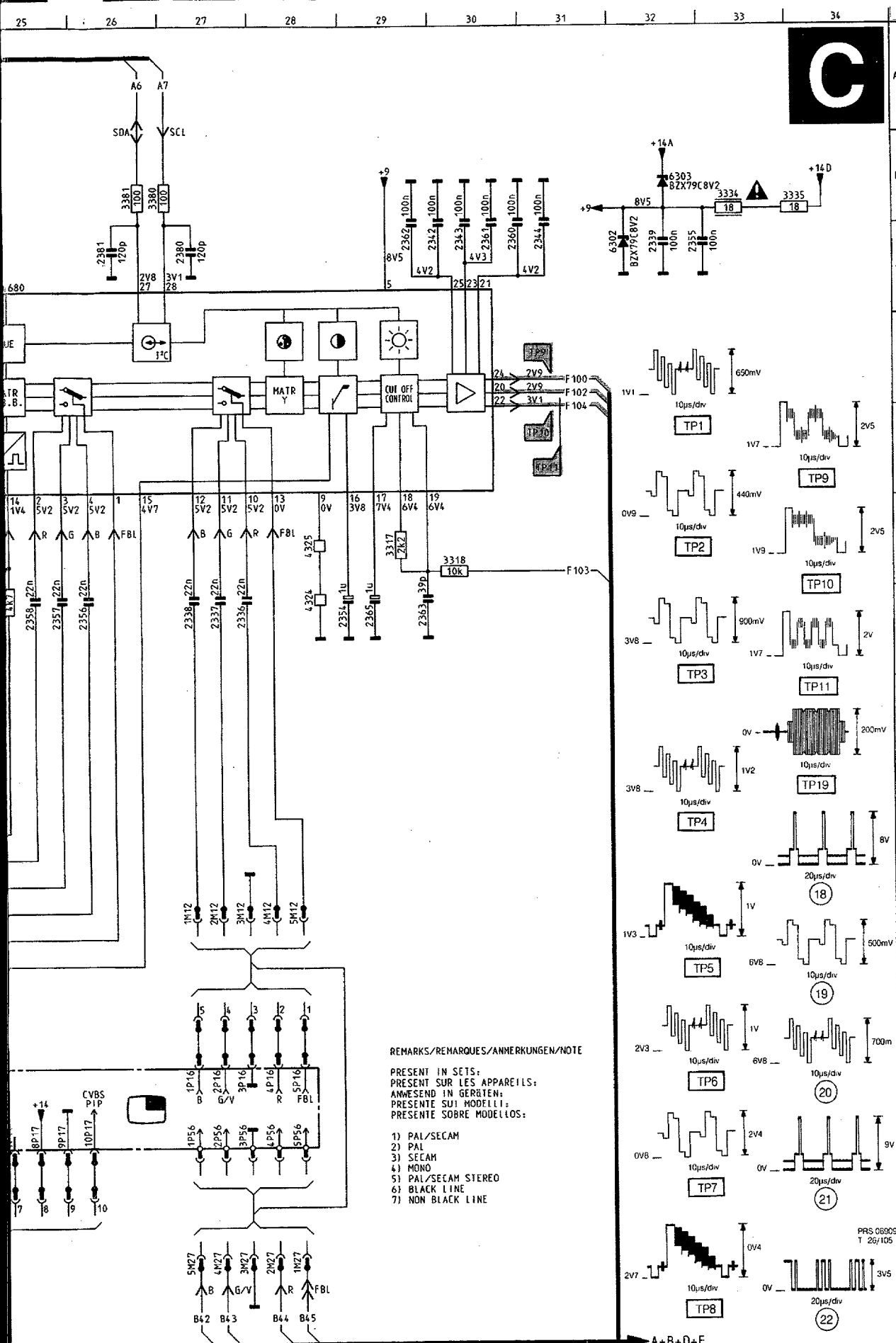
869



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2304	E 4	3340	M19
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2317	A 9	3362	G25
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2368	H17	6367	L21
2370	C 6	7301	D 4
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3317	F29		
3318	F30		
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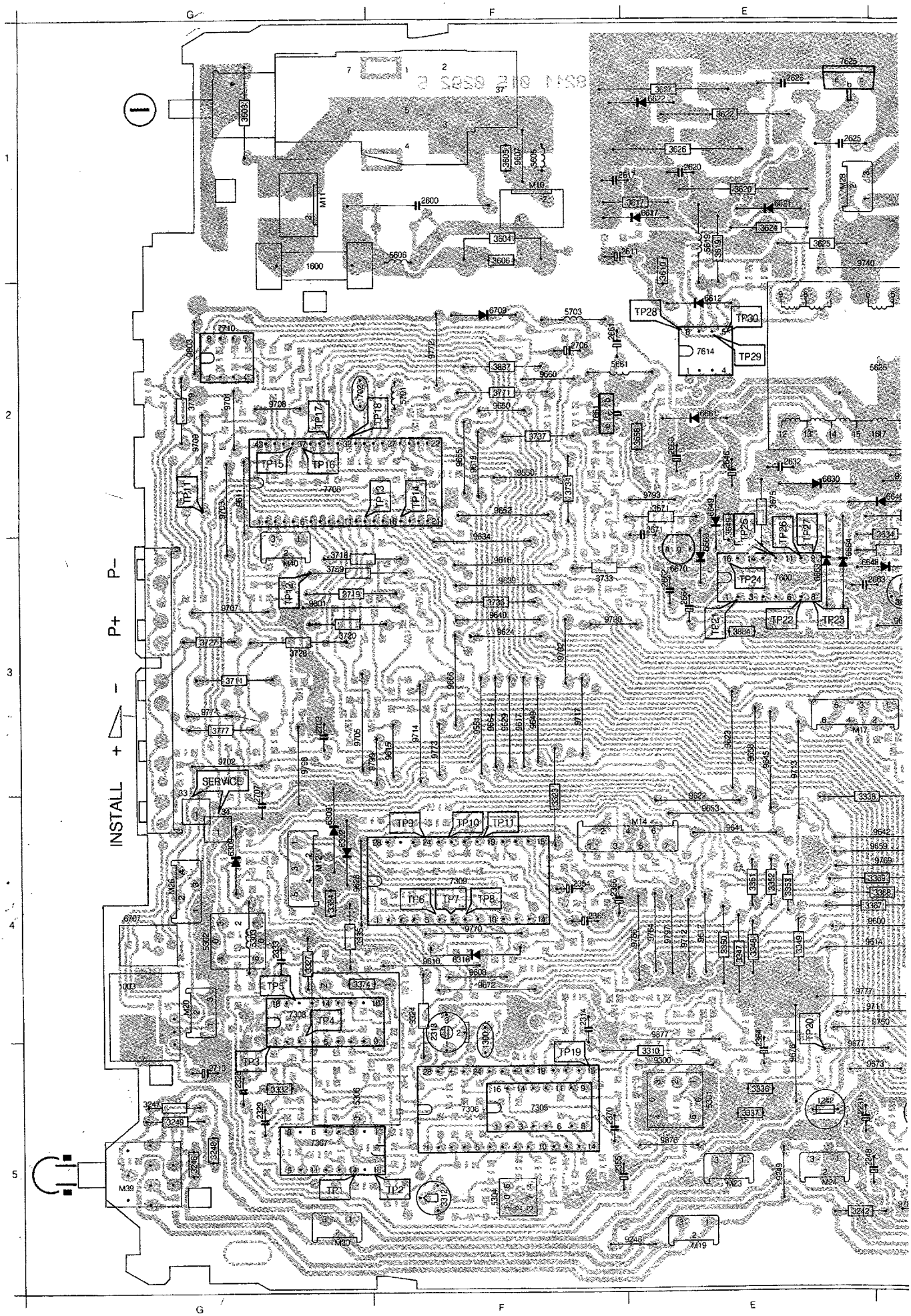
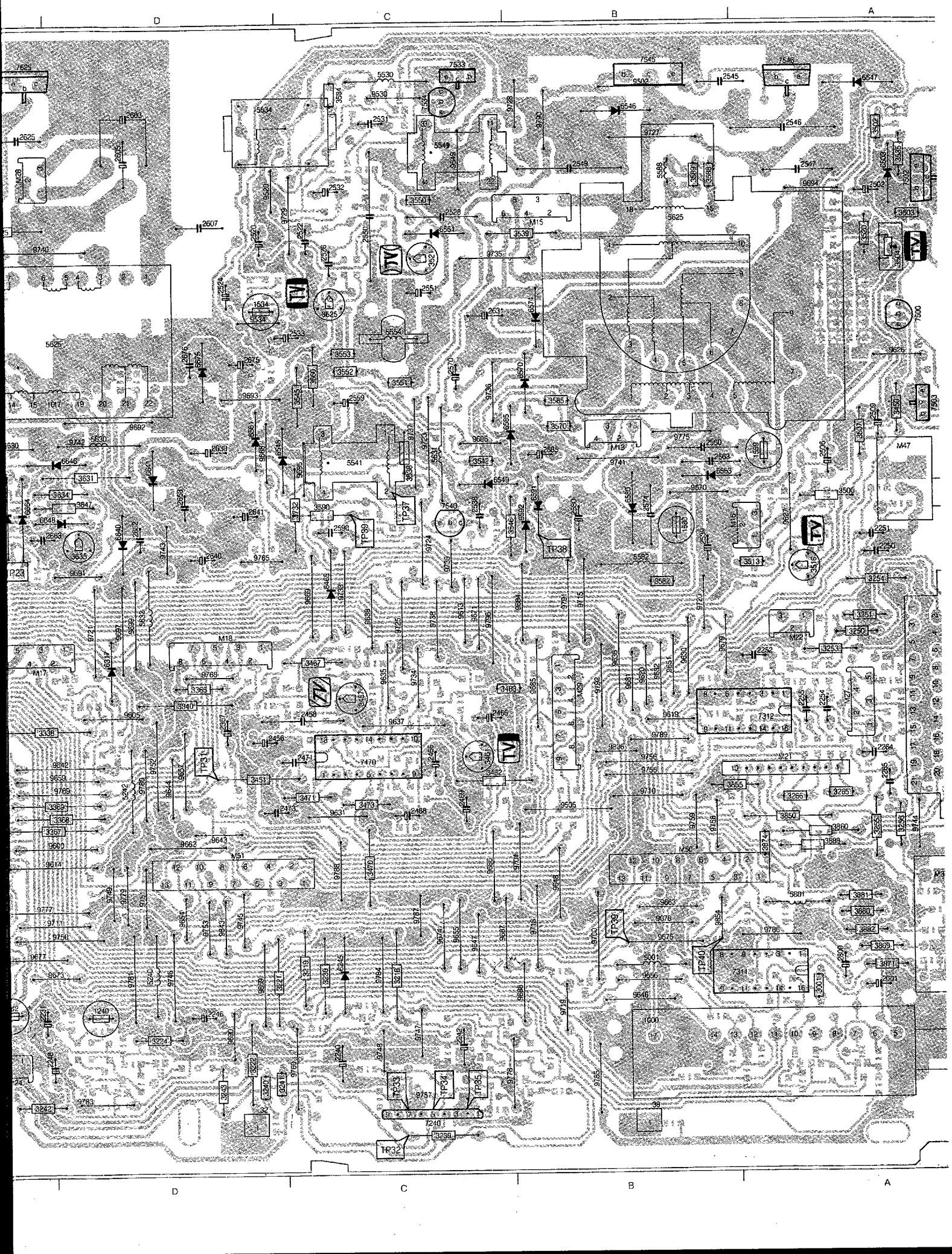
3327	F22		
3328	F21		

Monocarrier / Hauptplatine / Châssis

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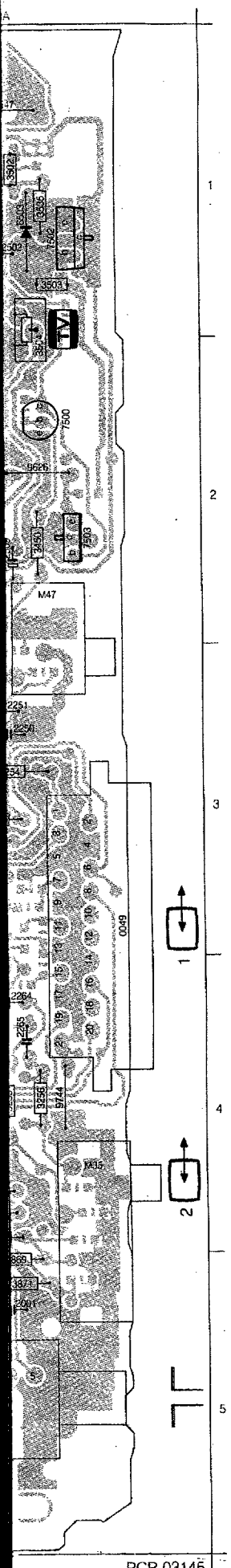

PCB.03145
T21/051

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37	1F	3248	5G	5632	3D	9676	5E
38	5B	3249	5G	5661	2F	9677	5E
M10	1F	3250	3A	5701	2F	9678	4B
M11	1G	3251	3A	5703	2F	9679	3B
M12	4G	3253	3A	5801	4A	9681	3B
M13	2B	3254	3A	6245	5C	9684	3B
M14	4E	3255	4A	6302	4G	9685	3B
M15	1B	3256	4A	6303	4G	9686	4C
M16	3A	3265	4A	6309	4G	9687	4C
M17	3E	3266	4A	6316	4F	9688	5B
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M23	5E	3332	5G	6548	2C	9695	2C
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M28	1E	3337	5E	6563	2B	9700	4B
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M39	5G	3348	4E	6585	2B	9704	4B
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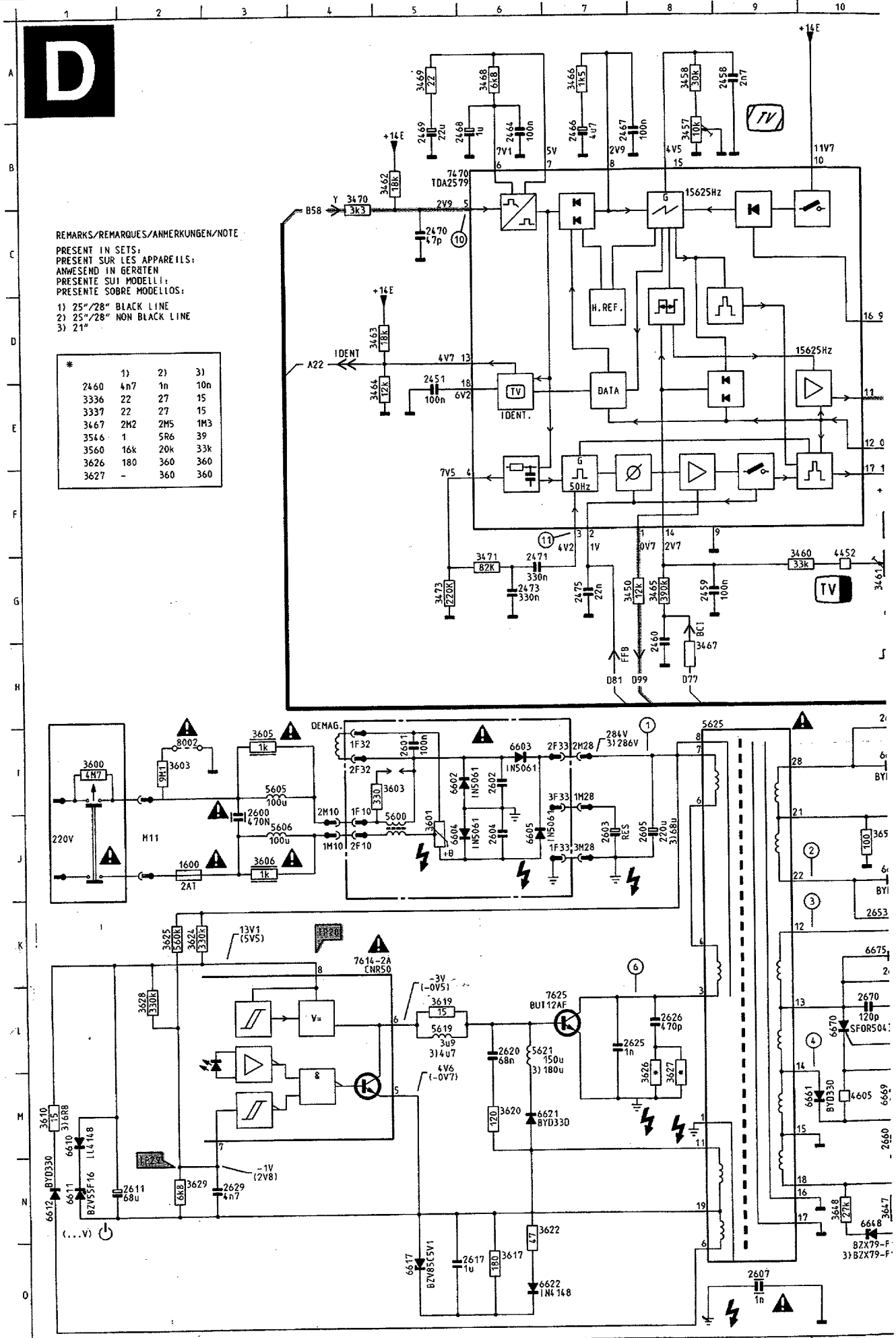
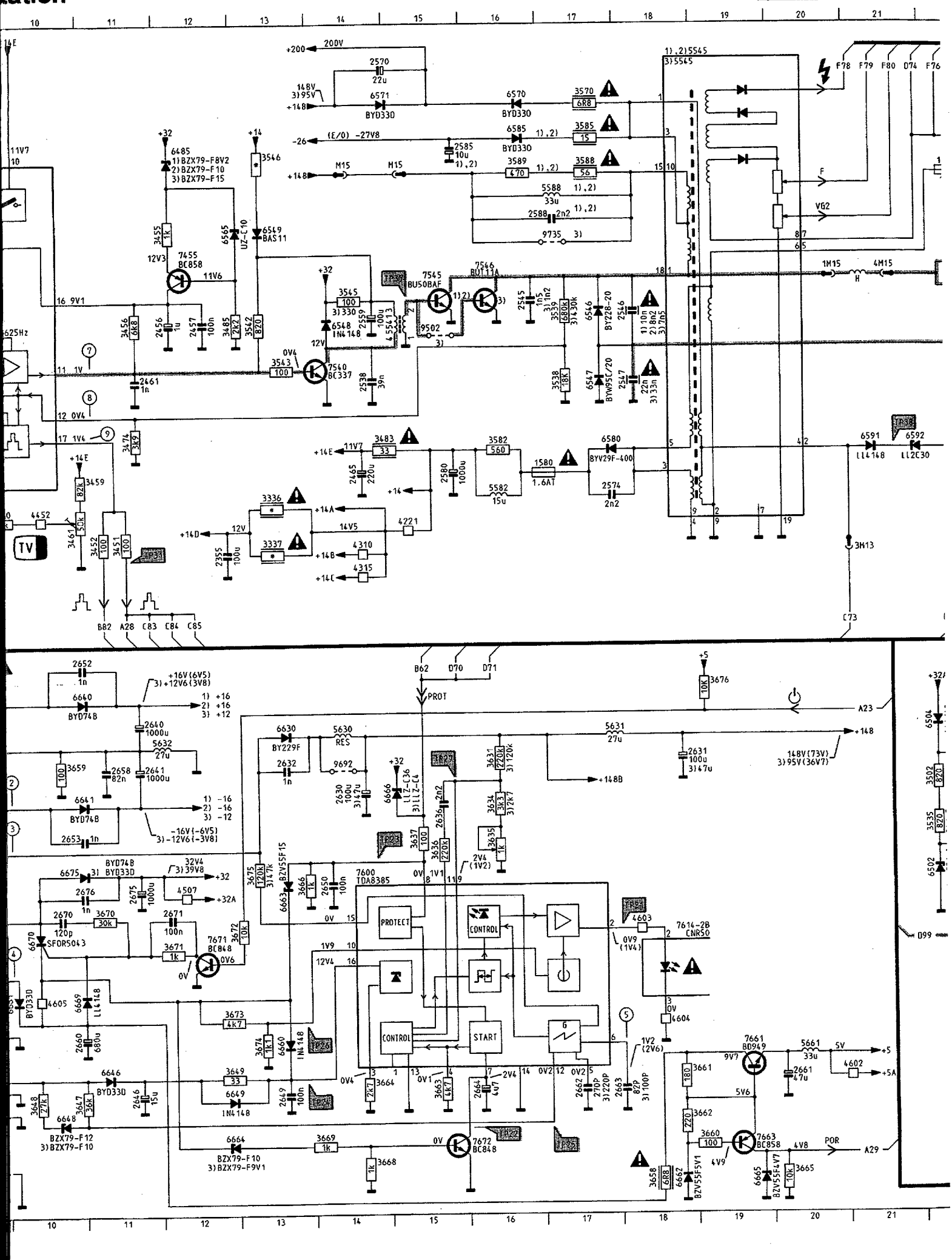
Power supply / Stromversorgung / Alimentation

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-26 (E/0) -27V8
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3585 15
2585 10u
3589 470
3588 56
M15 M15
5588 33u
2588 2n2
9735
+32
+14
6485 1) BZX79-F8V2 2) BZX79-F10 3) BZX79-F15
3546
3455 1k
6565 UZ-E10
6549 BAS11
12V3
7455 BC858
11V6
16 9V1
3456 6k8
2456 1u
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3485 2k2
3542 820
3545 100
3) 330
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2559 100u
455413
7545 BU508AF
7566 BUT11A
9502
3543 100
7560 BC337
0V4
12V
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6547 BYW95C/20
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2547 22n 3) 33n
1M15 4M15
F78 F79 F80 D74 F76
F
VG2
1),2)5545
3)5545
11 1V
12 0V4
17 1V4
2461 1n
3474 3479
+14E
82k 3459
4452
50k 3461
3452 100
3451 100
TV
3336
3337
+14A
14V5
4221
+14D
12V
2355 100u
+14B
4310
+14C
4315
3483 33
11V7
2465 220u
2580 1000u
3582 560
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6592 LL2C30
3M13
C73
B82 A28 C83 C84 C85
2652 1n
6660 BYD74B
+16V(6V5) 3) +12V6(3V8)
1) +16 2) +16 3) +12
2640 1000u
5632 27u
3659 100
2658 82n
2641 1000u
6641 BYD74B
1) -16 2) -16 3) -12
2653 1n
-16V(-6V5) 3) -12V6(-3V8)
B62 D70 D71
PROT
+5
3676 10K
A23
+148
5631 27u
2631 100u 3) 47u
148V(73V) 3) 95V(36V7)
+148B
6630 BY229F
5630 RES
2632 1n
9692
+32
2630 100u 3) 47u
6666 LL4148-C36 3) LL42-C4
3631 220k 3) 120k
3634 3k3 3) 2K7
2636 2n2
3637 100
3636 220k
3635 1k
2V4 (1V2)
6675 BYD74B BYD33D
32V4 3) 39V8
+32
2676 1n
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4507
+32A
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3670 30k
2671 100n
6670 SFOR5043
3671 1k
7671 BC848
0V6
0V
3672 10K
3675 120k 3) 47k
BZV55F15
6663
3666 1k
2650 100n
7600 TDA8385
0V 1V1
PROTECT
CONTROL
START
1V9
12V4
0V9 (1V4)
4603
7614-2B CNR50
4604
1V2 (2V6)
6504
3502 820
3535 820
6502
D99
6605 BYD33D
4605
6669 LL4148
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2649 100n
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0V4
0V1
2V4
0V2
3648 27K
3647 36K
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6666 BZX79-F10 3) BZX79-F9V1
3669 1k
3668 1k
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5V
+5
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+5A
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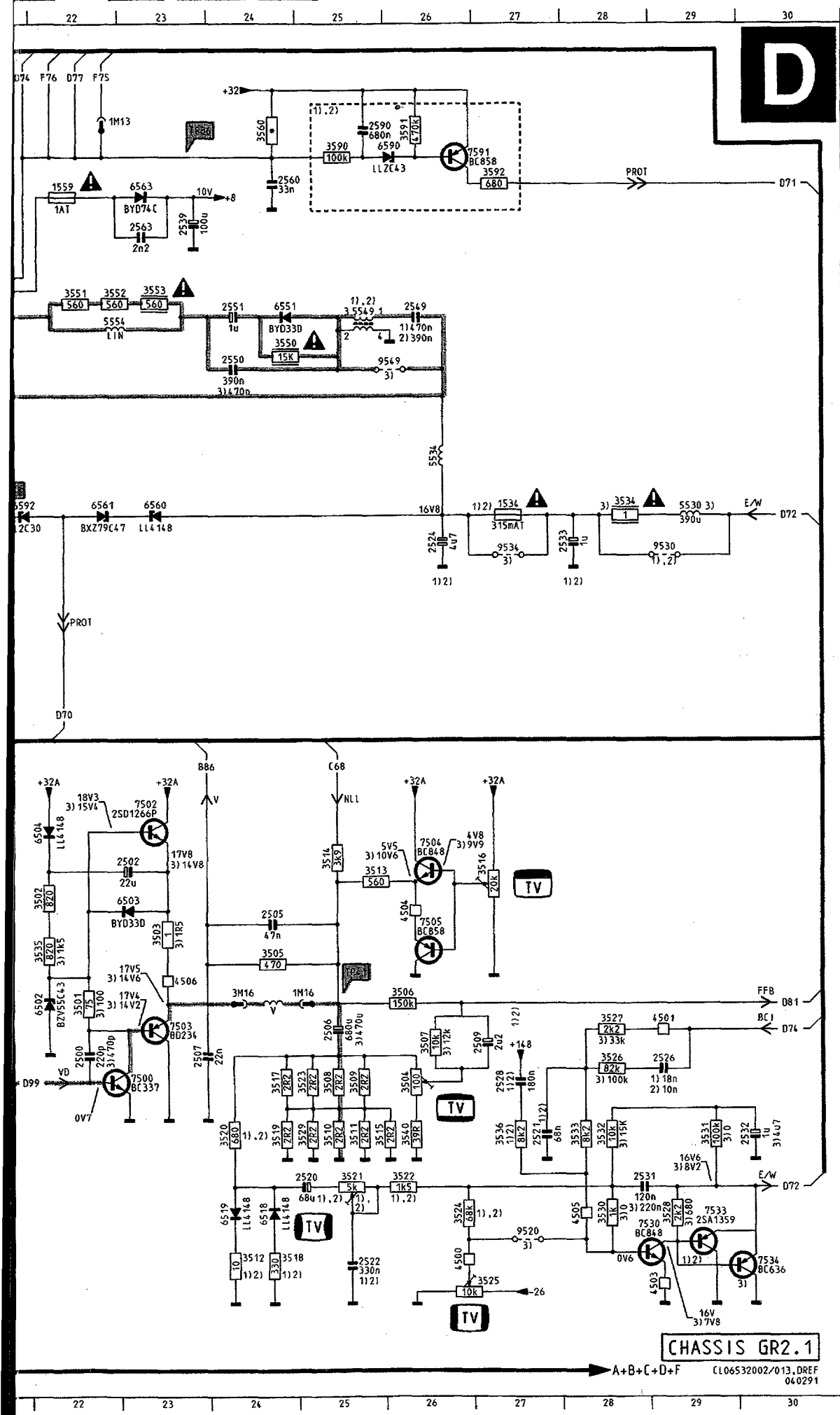
Synchronization / Synchronisation



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2467	B 8	3518	N24	6503	J23
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2469	B 5	3520	M24	6518	N24
2470	C 5	3521	M25	6519	N24
2471	G 6	3522	M26	6546	D17
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2500	L22	3525	N27	6549	C13
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Mains module
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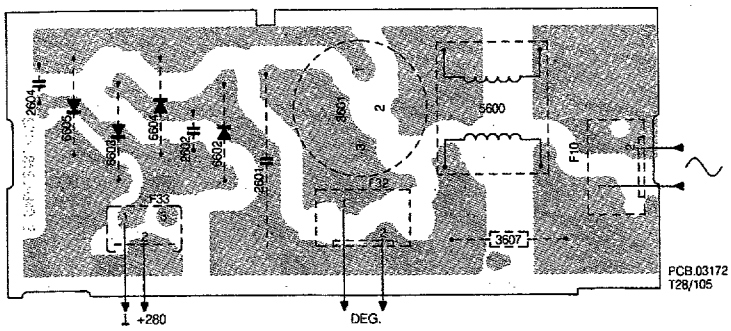
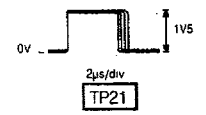
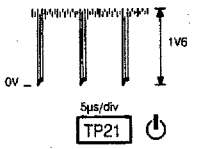
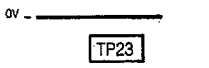
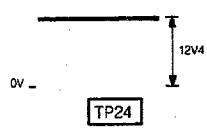
Module secteur

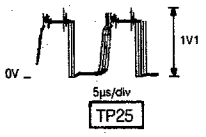


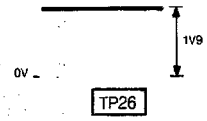


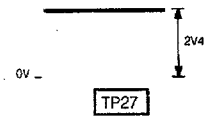


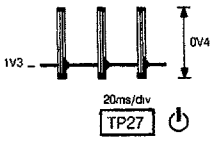


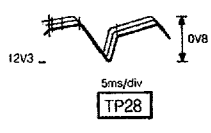


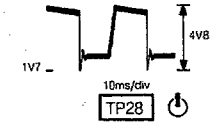


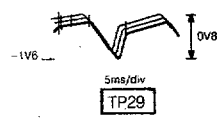


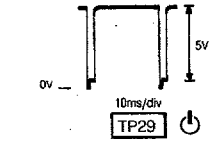


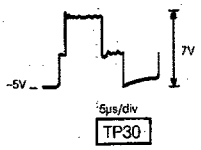


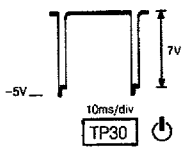


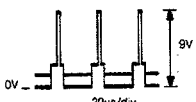


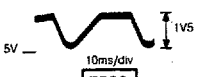


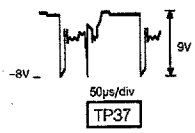


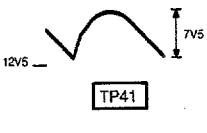


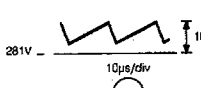


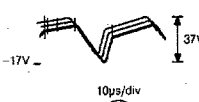


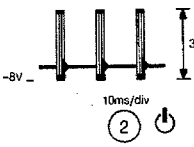


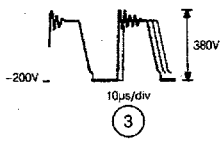


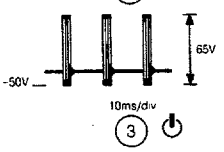


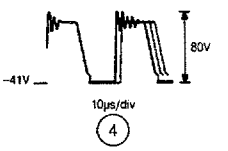


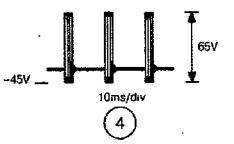


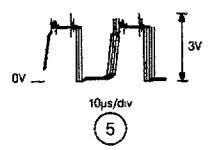


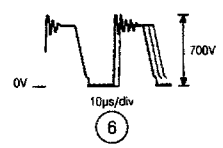


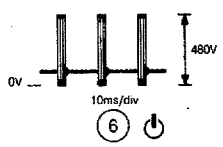


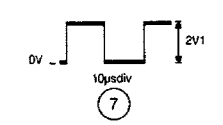


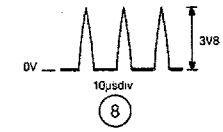


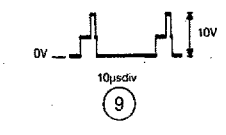


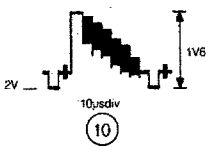


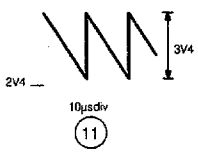












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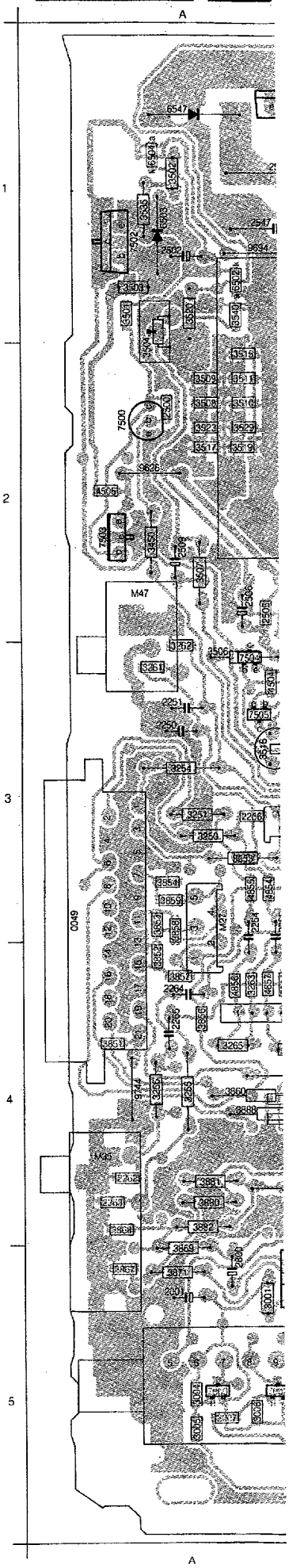

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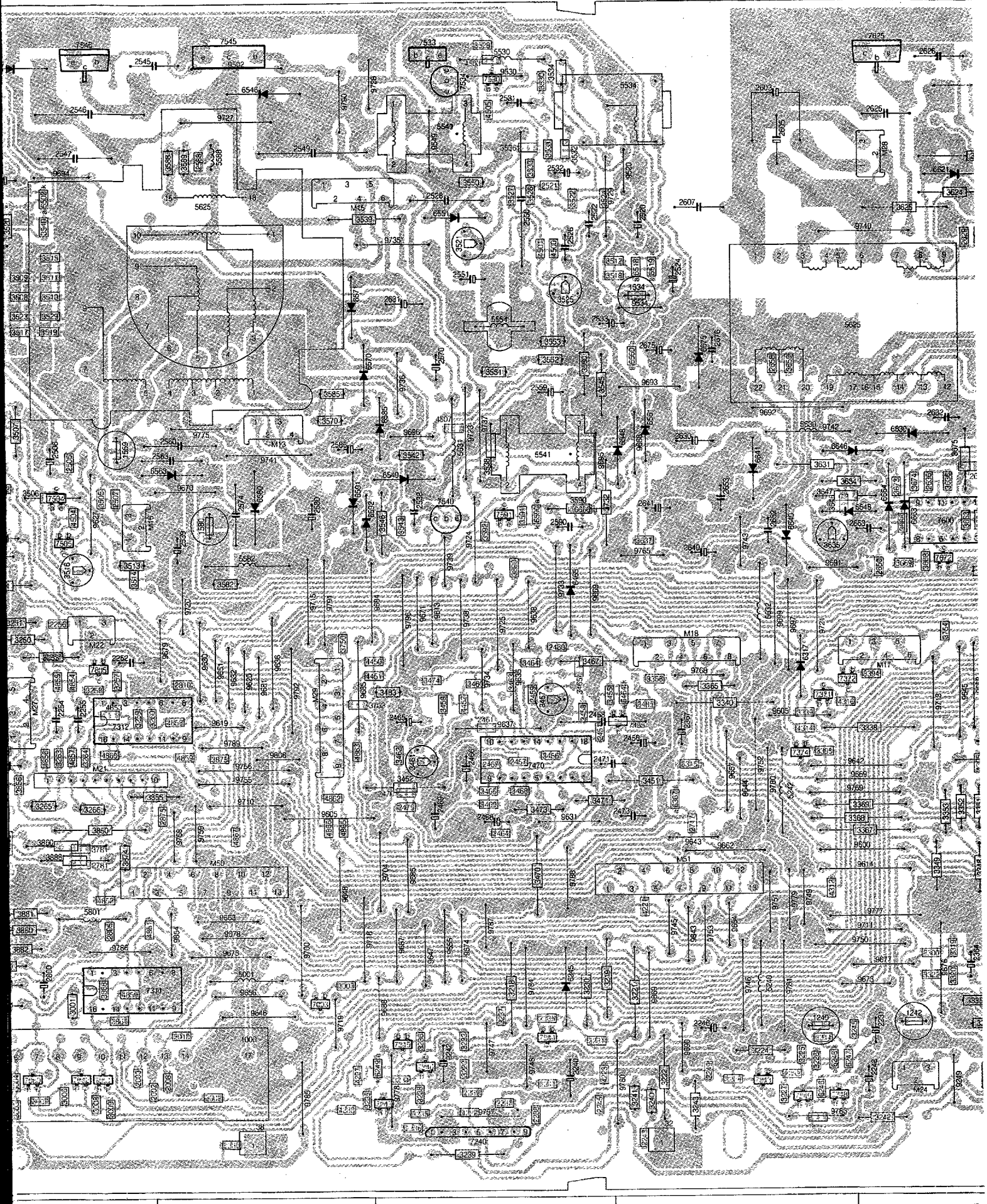
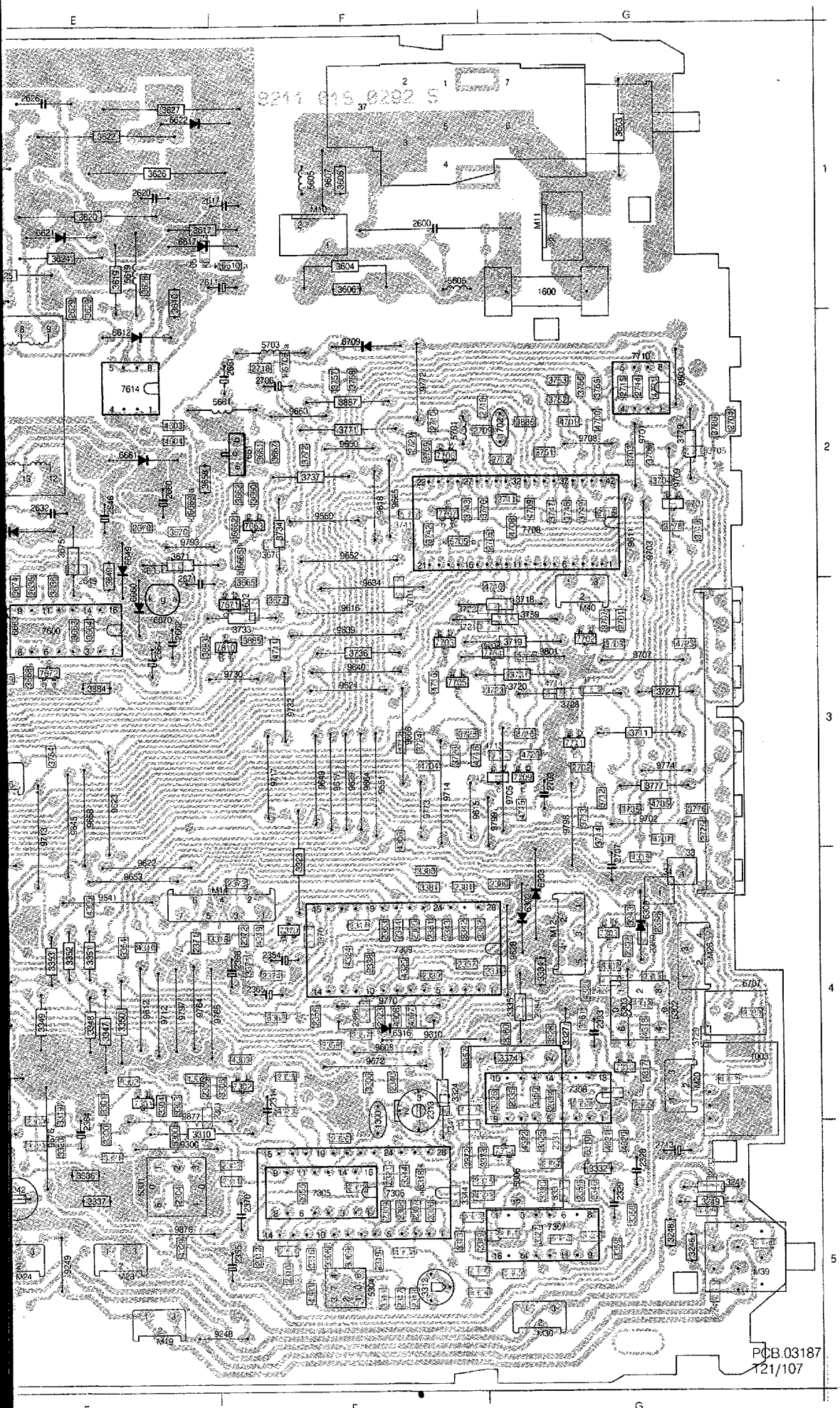
Monocarrier / Hauptplatine / Châssis





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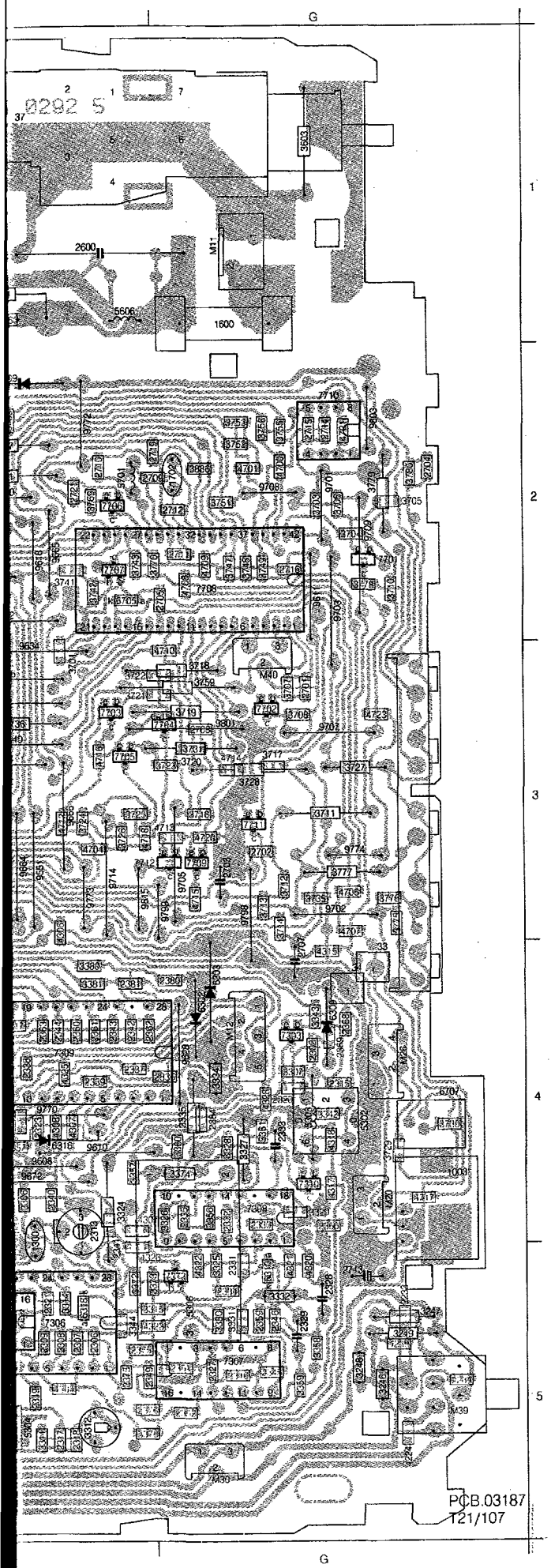

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M22 3G	2464 4G	3255 4G	3533 1G	3869 5G	6504 1G	9634 3G	9799 3A
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M24 5G	2466 4G	3257 3G	3535 1G	3874 4G	6519 2G	9636 3G	9803 2A
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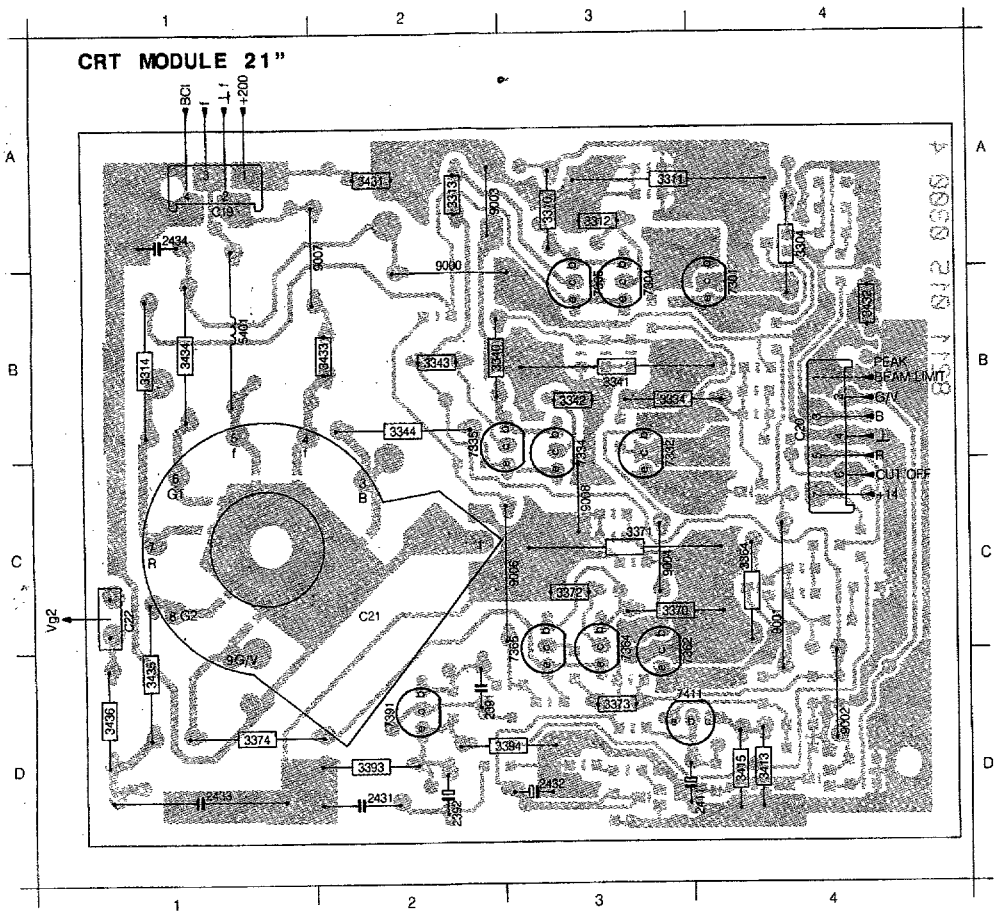

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C22	C1	3432	B4
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2331	B4	3434	B1
2361	C4	3435	D1
2391	D2	3436	D1
2392	D2	4000	C4
2411	D4	4002	D4
2412	D4	4005	D3
2421	D4	4006	C4
2431	D2	4009	B3
2432	D3	4010	B3
2433	D1	4011	B4
2434	A1	4012	D2
3301	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		
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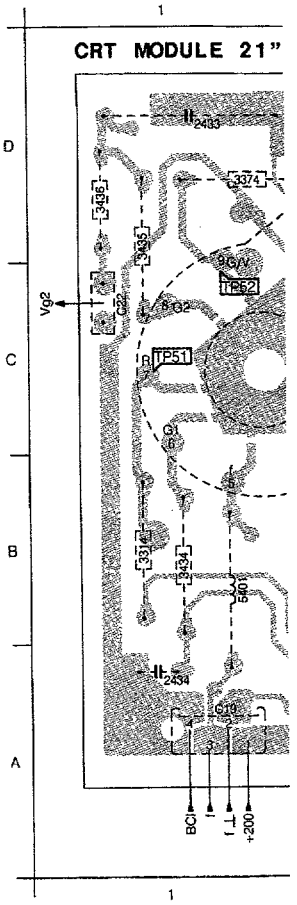
3421	D4		



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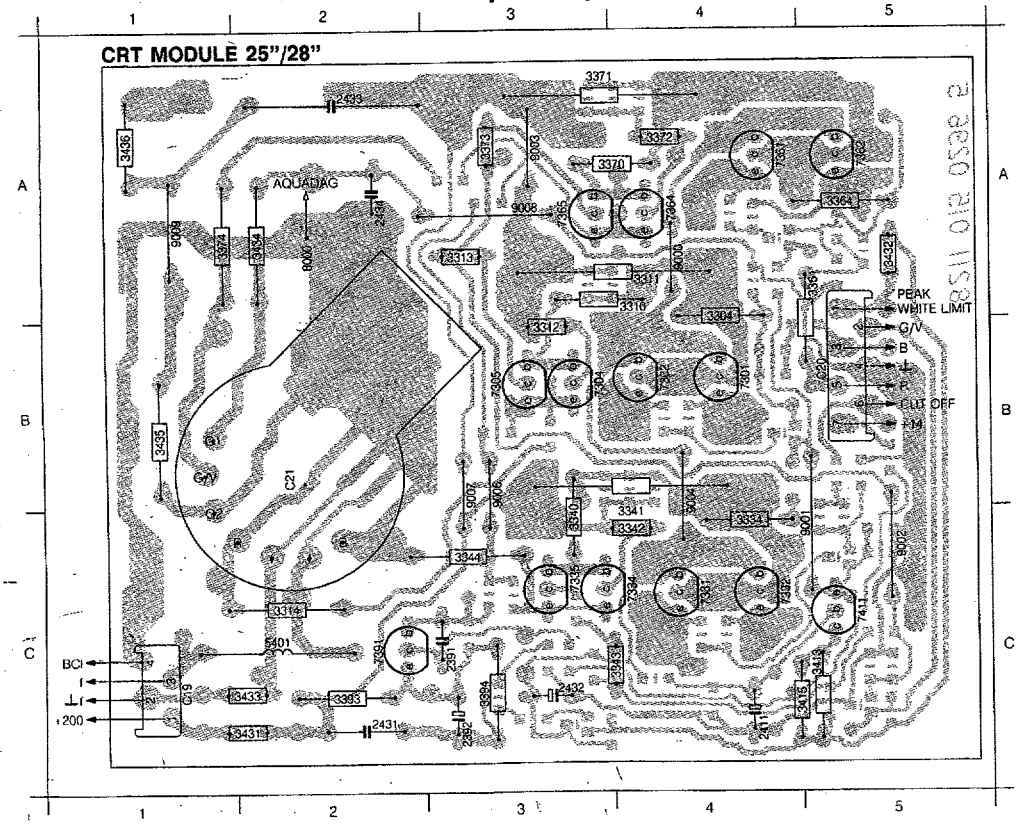

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C20	B5	3398	B4
C21	B2	3411	C4
2301	B4	3413	C5
2331	C5	3414	C5
2361	A5	3415	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C3
2412	C5	3431	C1
2421	C5	3432	A5
2431	C2	3433	C1
2432	C3	3434	A2
2433	A2	3435	B1
2434	A2	3436	A1
3301	B4	4000	B5
3302	B4	4002	C5
3303	A4	4003	C3
3304	B4	4005	C3
3308	B4	4007	B3
3309	B4	4008	A3
3310	A4	4008	C4
3311	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
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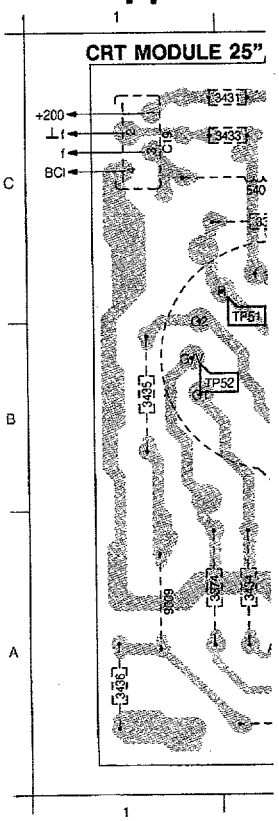

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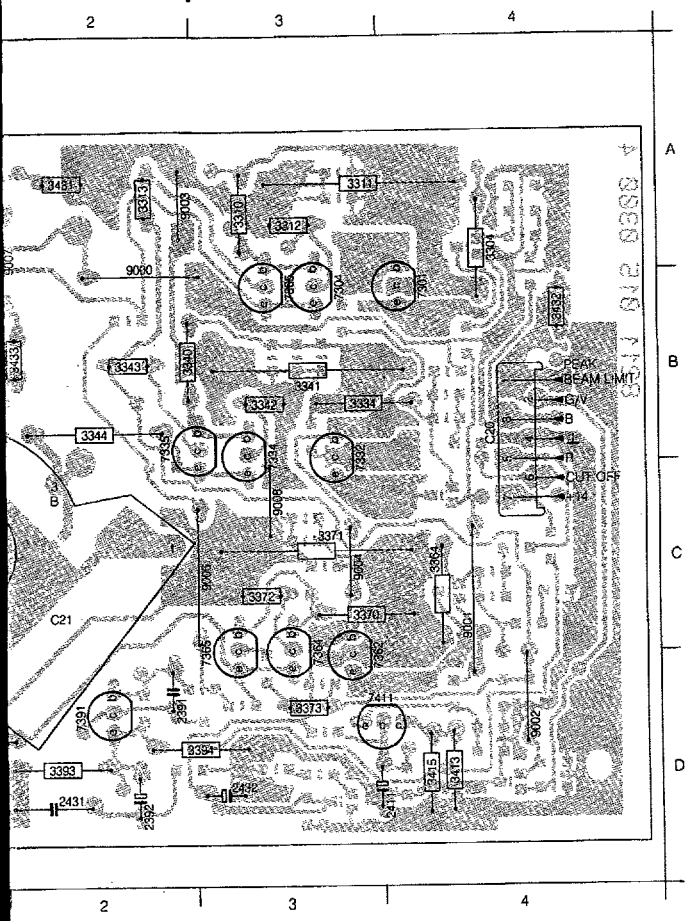

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C20	B4	3423	D3
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C22	C1	3432	B4
2301	A4	3433	B2
2331	B4	3434	B1
2361	C4	3435	D1
2391	D2	3436	D1
2392	D2	4000	C4
2411	D4	4002	D4
2412	D4	4005	D3
2421	D4	4006	C4
2431	D2	4009	B3
2432	D3	4010	B3
2433	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
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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		
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3393	D2		
3394	D2		
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3396	B3		
3397	B3		
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3411	D3		
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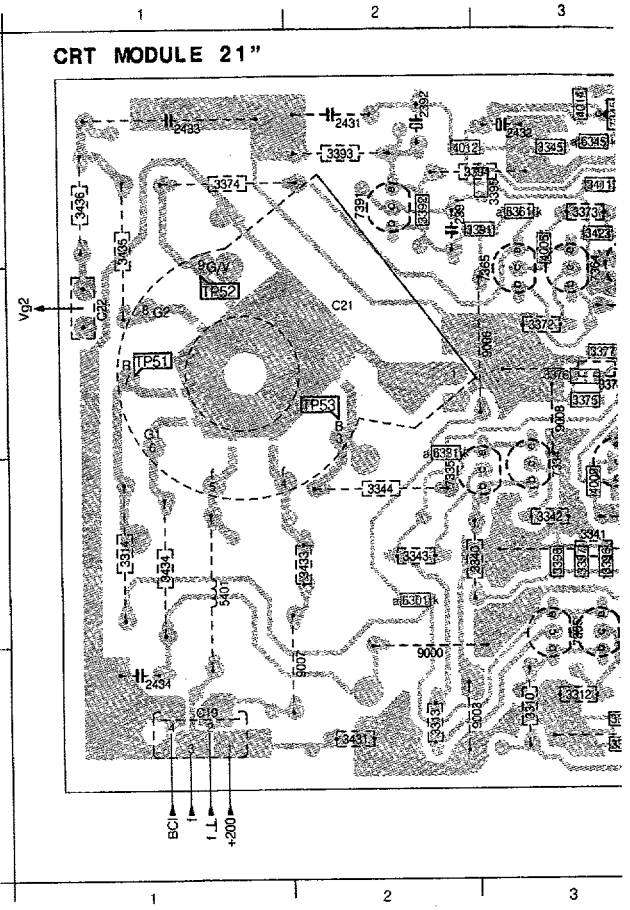

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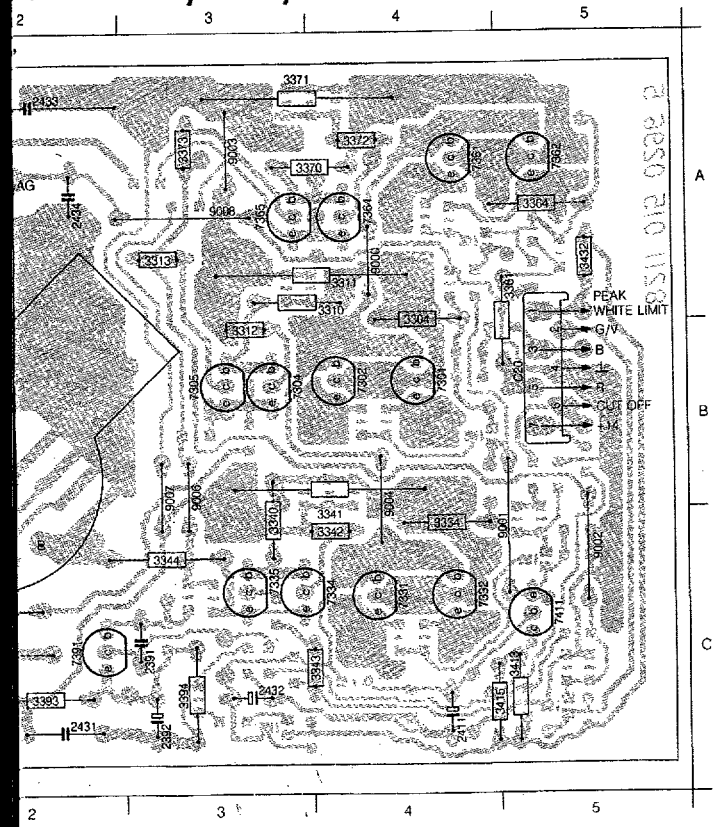

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C20	B5	3398	B4
C21	B2	3411	C4
2301	B4	3413	C5
2331	C5	3414	C5
2361	A5	3415	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C3
2412	C5	3431	C1
2421	C5	3432	A5
2431	C2	3433	C1
2432	C3	3434	A2
2433	A2	3435	B1
2434	A2	3436	A1
3301	B4	4000	B5
3302	B4	4002	C5
3303	A4	4003	C3
3304	B4	4005	C3
3308	B4	4007	B3
3309	B4	4008	A3
3310	A4	4008	C4
3311	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
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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
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3372	A4	7421	C5
3373	A3	8000	A2
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3375	A3	9001	C5
3376	A4	9002	C5
3377	A4	9003	A3
3391	C3	9004	C4
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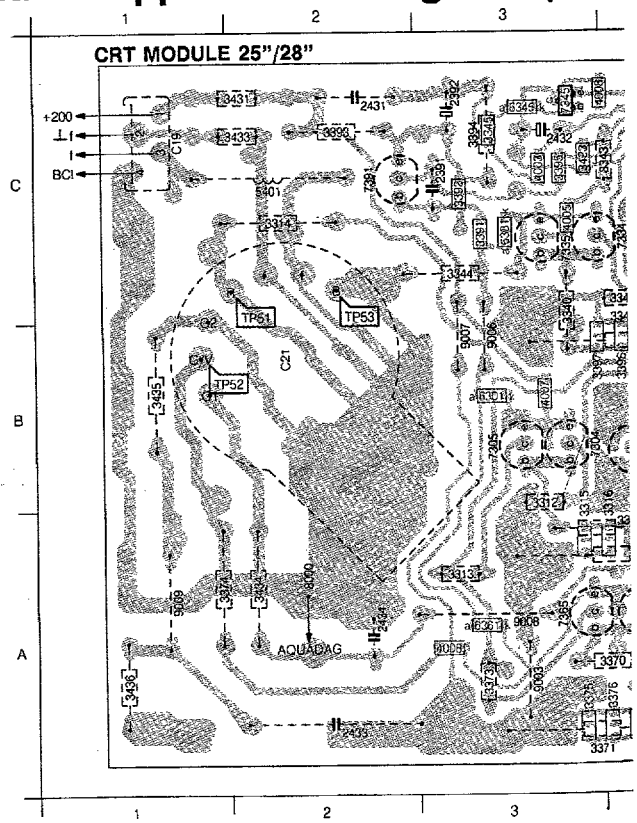
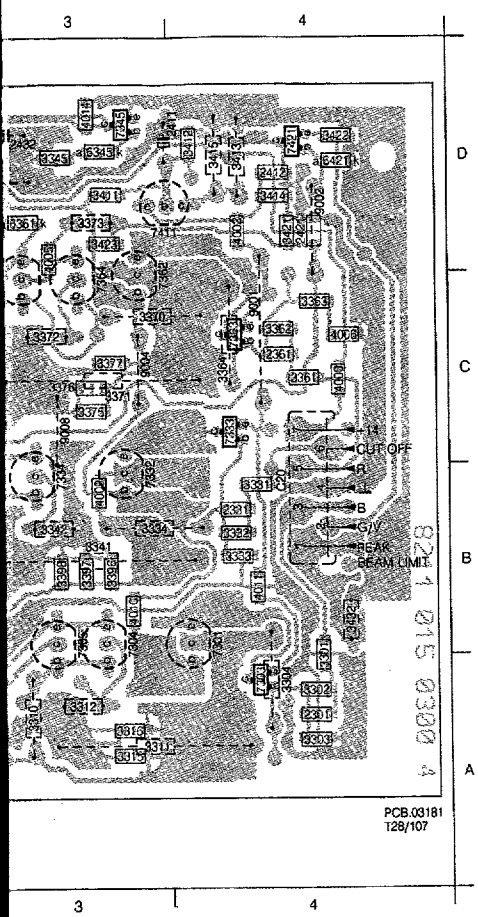


Picture tube module /

DIAGRAM F
SCHEMA F



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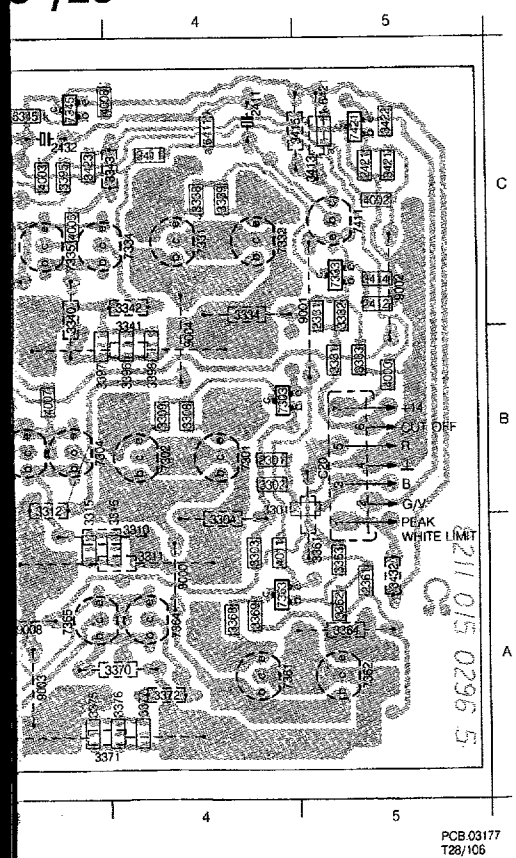

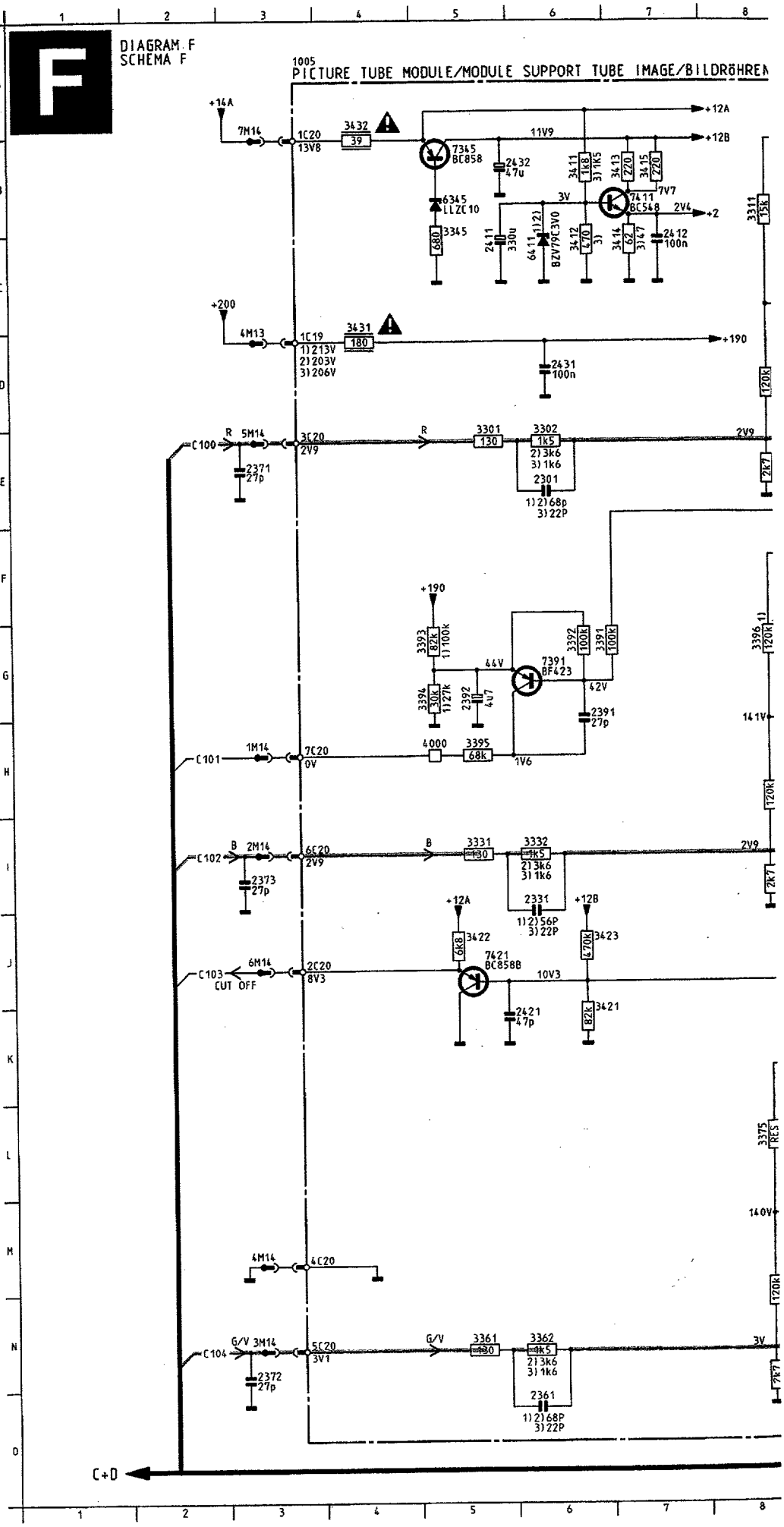

Bildröhren Modul / Module support tube image

F

RÖHREN MODUL/MODULO CRT/MODULO TUBO DE IMAGEN

SEE SERVICE MANUAL "REMARKS" SIEHE ANMERKUNGEN IN DER SERVICE DOKUMENTATION VEDERE NOTE SU DOCUMENTATIONE VER OBSERVACIONES EN ET DOCUMENTACION

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

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

1) 25"/28" BLACK LINE
2) 25"/28" NON BLACK LINE
3) 21"

PRS.06913
T-26/105

CHASSIS GR2.1

C106532002/017.FREF
040291

	1005	A 3
	1990	D17
	2301	E 6
	2331	I 6
A	2361	D 6
	2371	E 3
	2372	N 3
	2373	I 3
	2391	H 6
	2392	G 5
	2411	C 5
	2412	C 7
B	2421	K 6
	2431	D 6
	2432	B 6
	2433	H14
	2434	I13
	3301	E 5
	3302	E 6
	3303	E 8
C	3304	D 8
	3305	C 9
	3306	B 9
	3307	B 9
	3308	D 9
	3309	D 9
	3310	C10
D	3311	B 8
	3312	B11
	3313	G11
	3314	D13
	3315	B 9
	3316	B 9
	3331	I 5
	3332	I 6
E	3333	I 8
	3334	H 8
	3335	G 9
	3336	G 9
	3337	F 9
	3338	H 9
	3339	H 9
	3340	G10
F	3341	G 9
	3342	G10
	3343	I 11
	3344	D13
	3345	B 5
	3361	N 5
	3362	N 6
G	3363	N 8
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	3365	L10
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	3369	N 9
	3370	M10
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	3372	L10
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	3374	D13
	3375	L 8
	3376	L 8
	3377	L 9
I	3391	G 7
	3392	G 6
	3393	G 5
	3394	G 5
	3395	H 5
	3396	G 8
	3397	G 8
	3398	G 9
J	3411	B 6
	3412	C 6
	3413	B 7
	3414	C 7
	3415	B 7
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	3422	J 5
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	3432	A 4
	3433	F14
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	7305	D10
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	7333	I10
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	7335	H10
	7345	B 5
O	7361	M 9
	7362	M10
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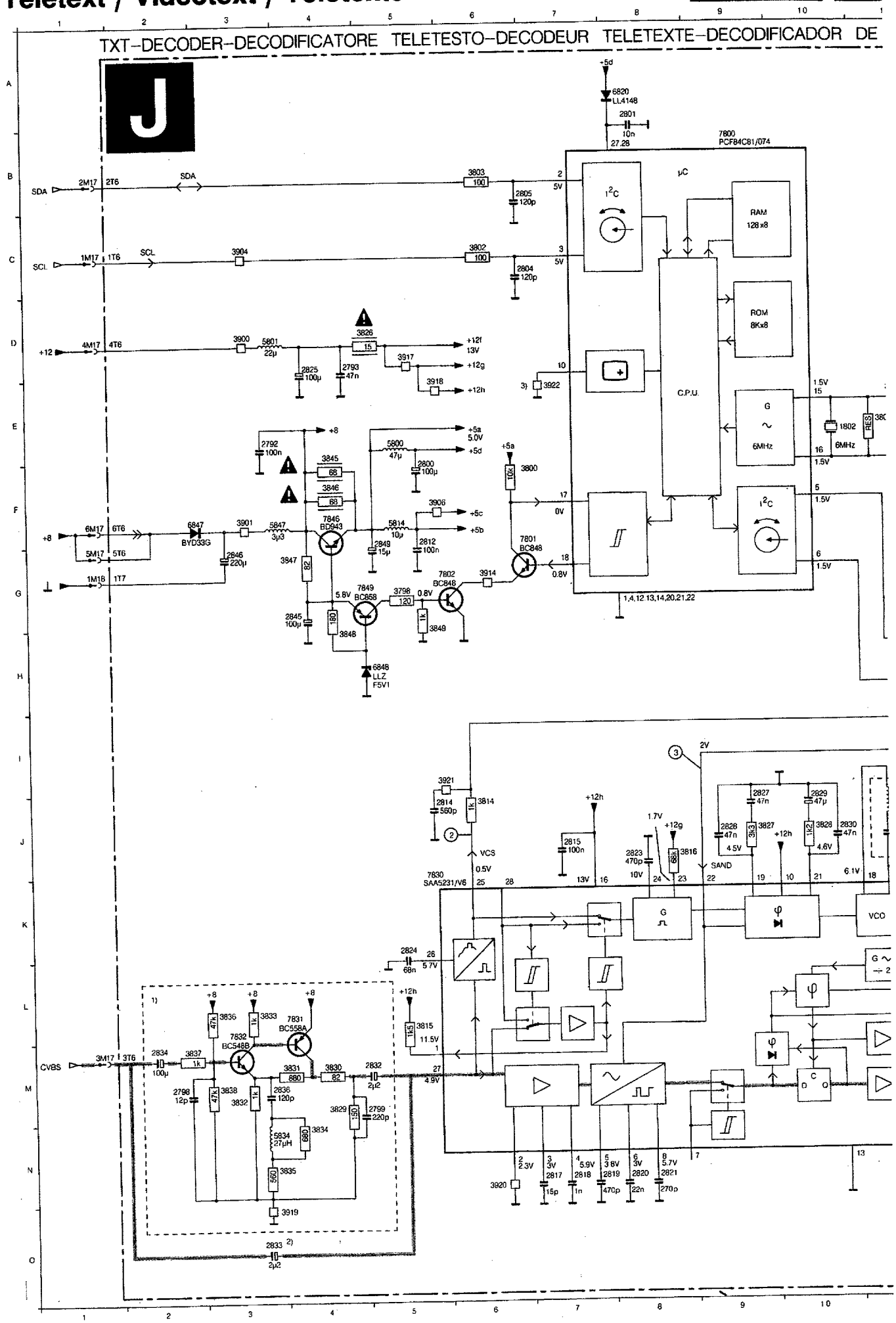
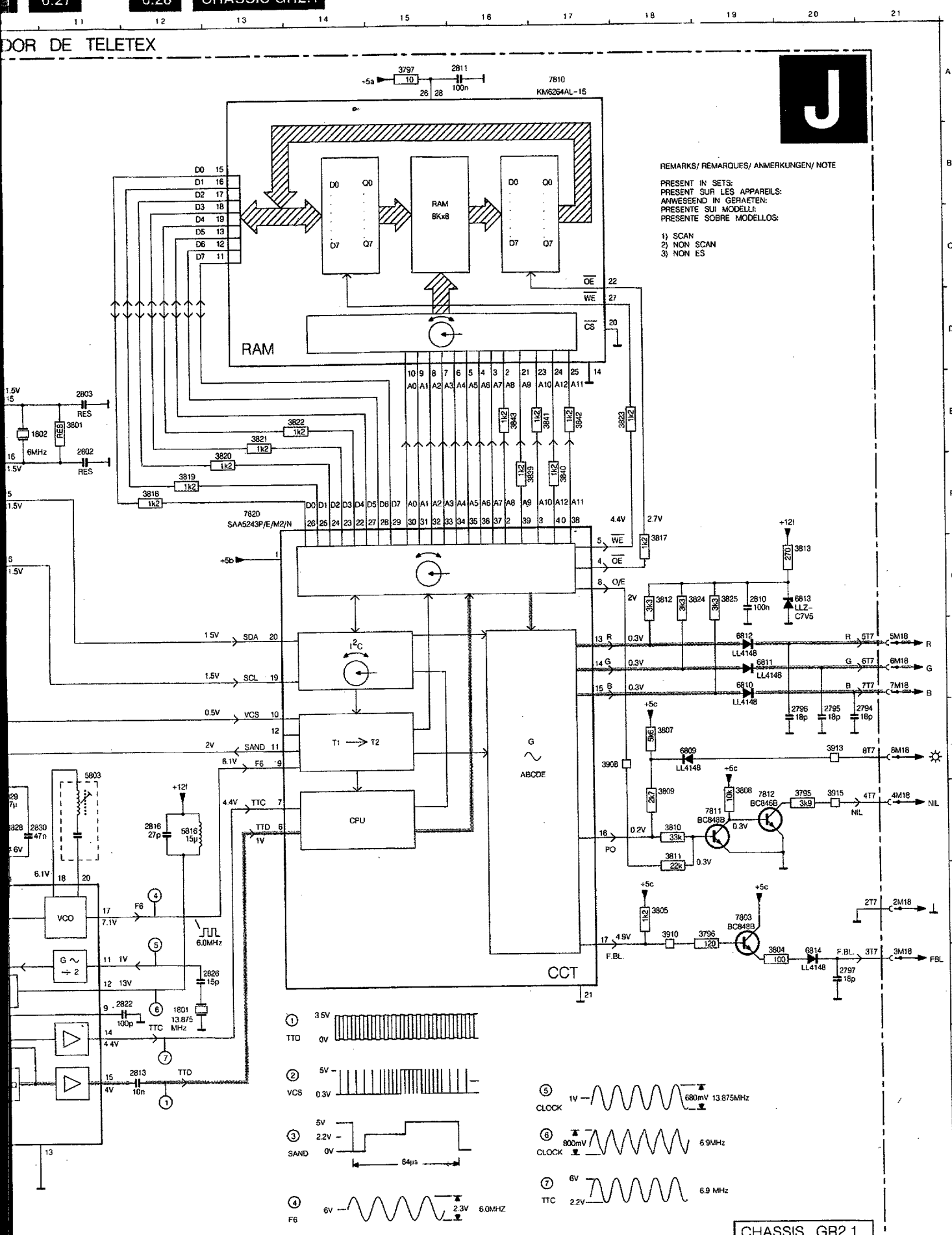
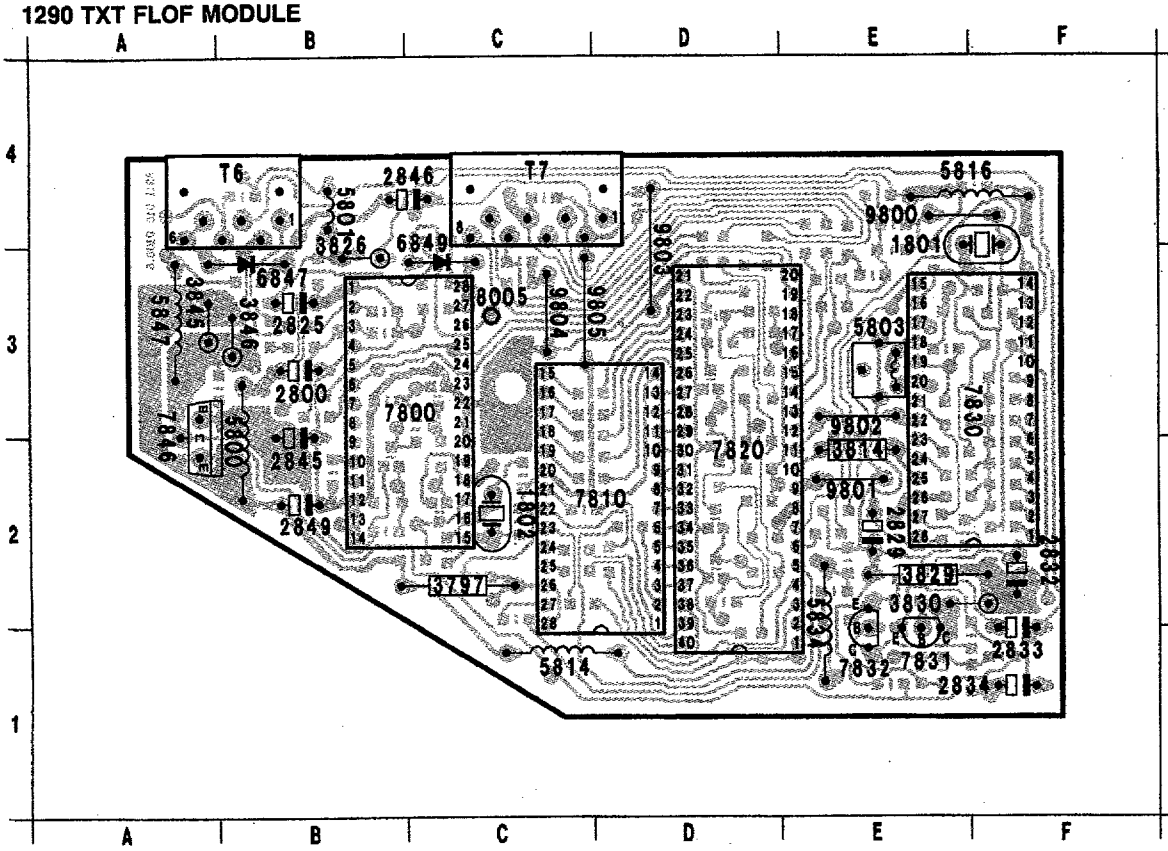
Teletext / Videotext / Teletexte

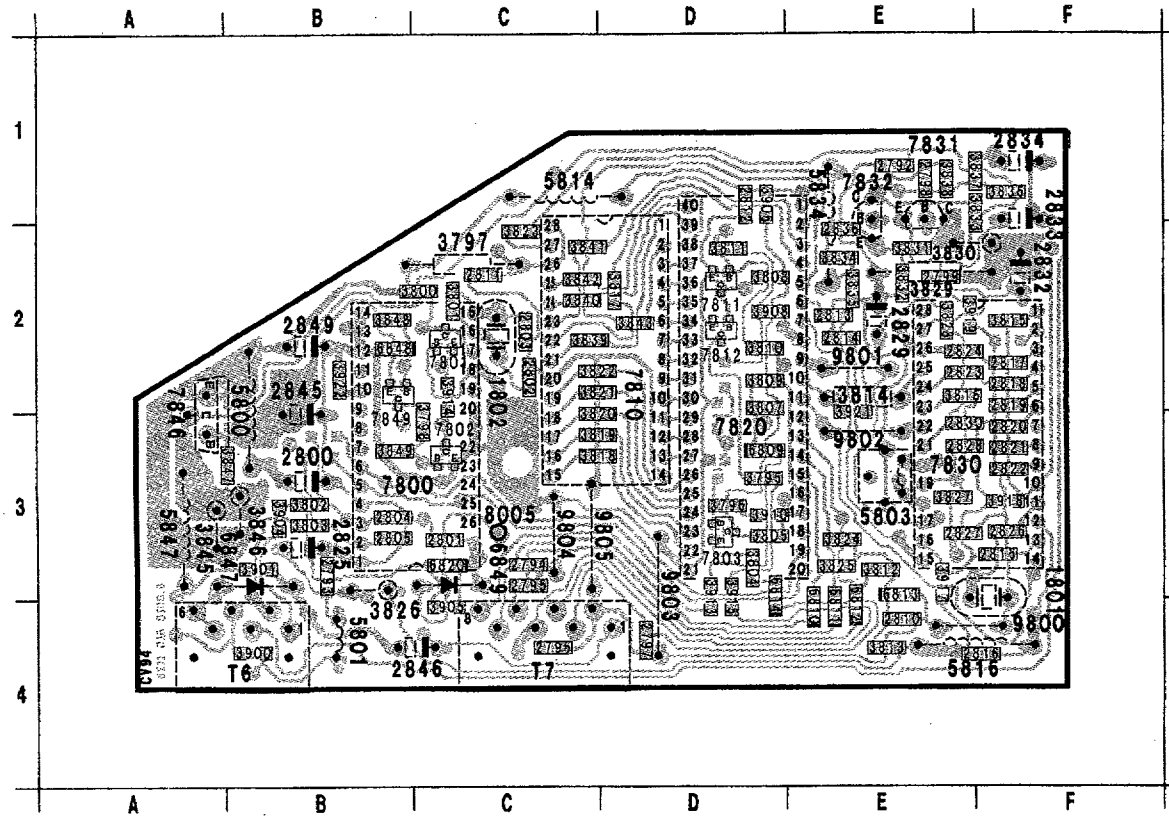


DOR DE TELETEX



1290 TXT FLOF MODULE





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2792	E3	3797	A15	6849	G5	1801	F3
2793	D4	3798	G6	7800	B9	1802	C2
2794	I20	3800	F6	7801	F7	2792	E1
2795	I20	3801	E11	7802	G6	2793	B3
2796	I20	3802	C6	7803	K19	2794	C3
2797	L20	3803	B6	7810	A17	2795	C3
2798	M2	3804	L19	7811	J19	2796	C4
2799	M4	3805	K18	7812	J19	2797	D4
2800	F5	3807	I18	7820	F13	2798	E1
2801	A8	3808	J19	7830	K5	2799	E2
2802	E11	3809	J18	7831	L4	2800	B3
2803	E11	3810	J18	7832	L3	2801	C3
2804	C6	3811	J18	7846	F4	2802	C2
2805	B6	3812	G18	7849	G5	2803	C2
2810	G19	3813	G20			2804	B3
2811	A16	3814	J6			2805	B3
2812	G5	3815	L5			2810	E4
2813	M12	3816	J8			2811	C2
2814	J5	3817	G18			2812	D1
2815	J7	3818	F12			2813	E2
2816	J12	3819	F12			2814	E2
2817	N7	3820	E13			2815	F3
2818	N7	3821	E13			2816	F4
2819	N7	3822	E14			2817	F2
2820	N8	3823	E18			2818	F2
2821	N8	3824	G18			2819	F2
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2825	D4	3828	J10			2823	E2
2826	L12	3829	M4			2824	E2
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2830	J10	3833	L3			2828	E3
2832	M5	3834	N4			2829	E2
2833	O3	3835	N3			2830	E3
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2846	G3	3839	F17			2836	E2
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		3841	E17			2846	C4
		3842	E17			2849	B2
		3843	E16			3795	D3
		3845	E4			3796	D3
		3846	F4			3797	C2
		3847	G4			3798	C3
		3848	H4			3800	C2
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		3920	N6			3815	F2
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		5814	F5			3821	C2
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		5834	N3			3823	C2
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		6811	H19			3827	E3
		6812	H19			3828	E2
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						7803	D3
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						7812	D2
						7820	D3
						7830	E3
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						8005	C3
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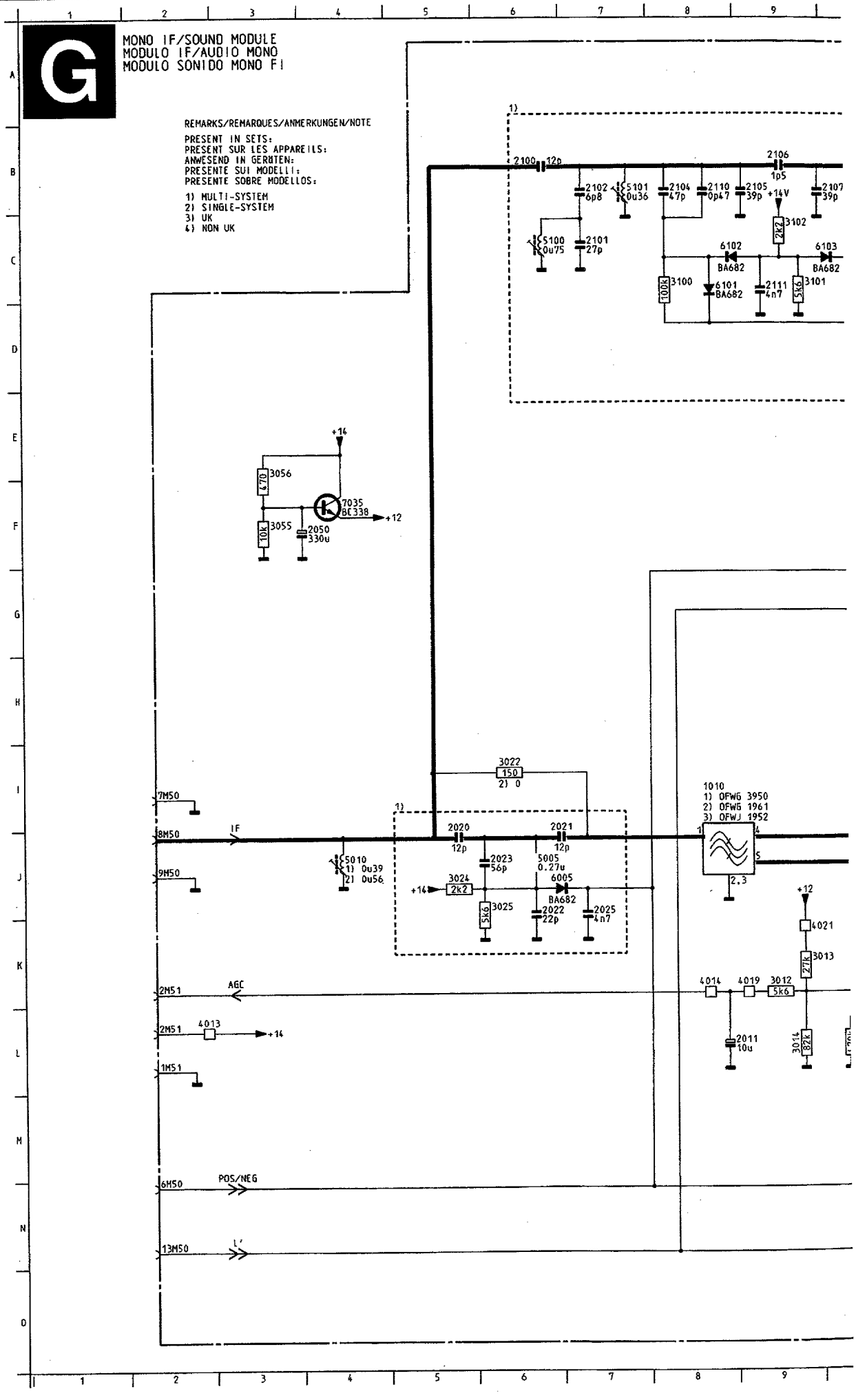
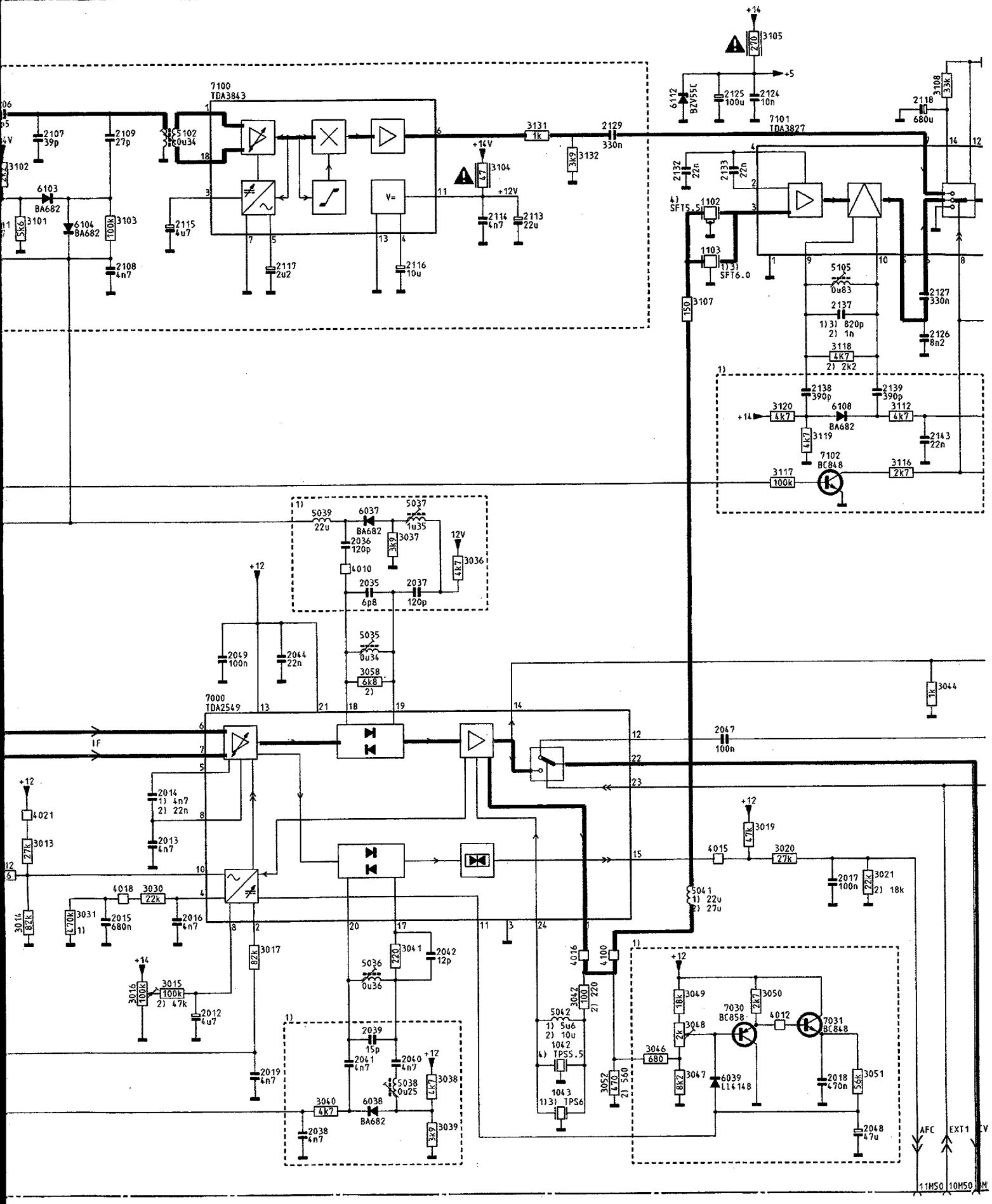
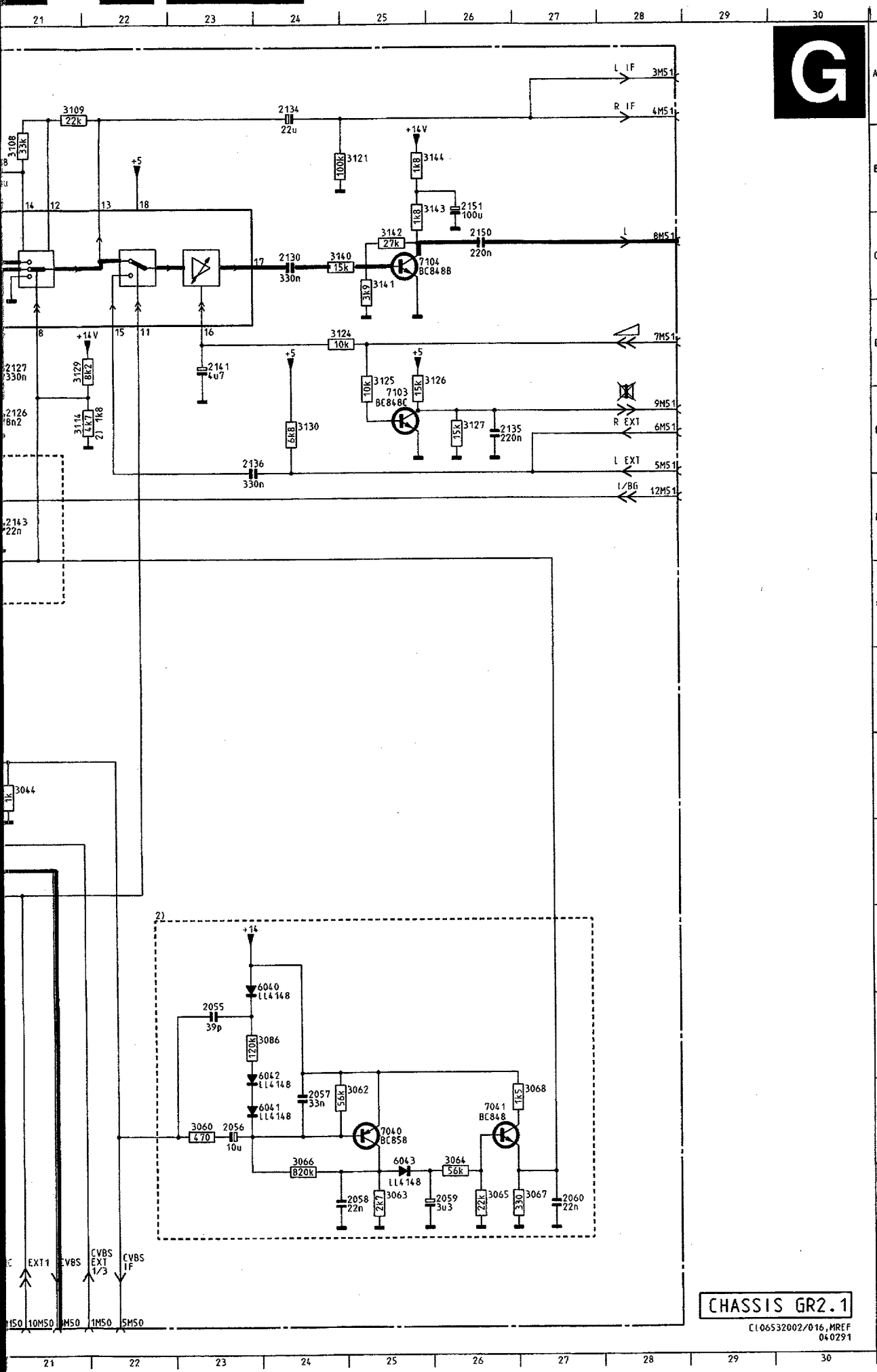
Mono IF/sound



und module / Mono ZF/Tonmodul / Module FI/son mono





CHASSIS GR2.1

CI06532002/016,MREF 040291

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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	D13	3132	C16
	2039	M14	3140	C25
	2040	N14	3141	C25
	2041	N13	3142	C25
	2042	L14	3143	B26
D	2044	I13	3144	B26
	2047	J18	4010	H13
	2048	O20	4012	M19
	2049	I12	4014	K 8
	2050	F 4	4015	K18
	2055	L23	4016	L16
	2056	M23	4018	L11
	2057	M24	4019	K 9
E	2058	N25	4021	K 9
	2059	N26	4100	L17
	2060	N27	5005	J 6
	2100	B 6	5010	J 4
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	2102	B 7	5036	M14
	2104	B 8	5037	G14
F	2105	B 9	5038	N14
	2106	B 9	5039	G13
	2107	B10	5041	L18
	2108	D10	5042	M16
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	2110	B 8	5101	B 7
	2111	C 9	5102	B11
	2113	C16	5105	D20
G	2114	C15	6005	J 7
	2115	C11	6037	G14
	2116	D14	6038	N14
	2117	D12	6039	N18
	2118	B21	6040	K24
	2124	B19	6041	M24
	2125	B18	6042	M24
	2126	E21	6043	N25
H	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
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I	2136	E24	7030	M18
	2137	O20	7031	M19
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	2141	D23	7041	M26
	2143	F21	7100	B12
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	3050	M18		
	3051	N20		
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	3062	M25		
	3063	N25		
	3064	N26		
	3065	N26		
	3066	N24		
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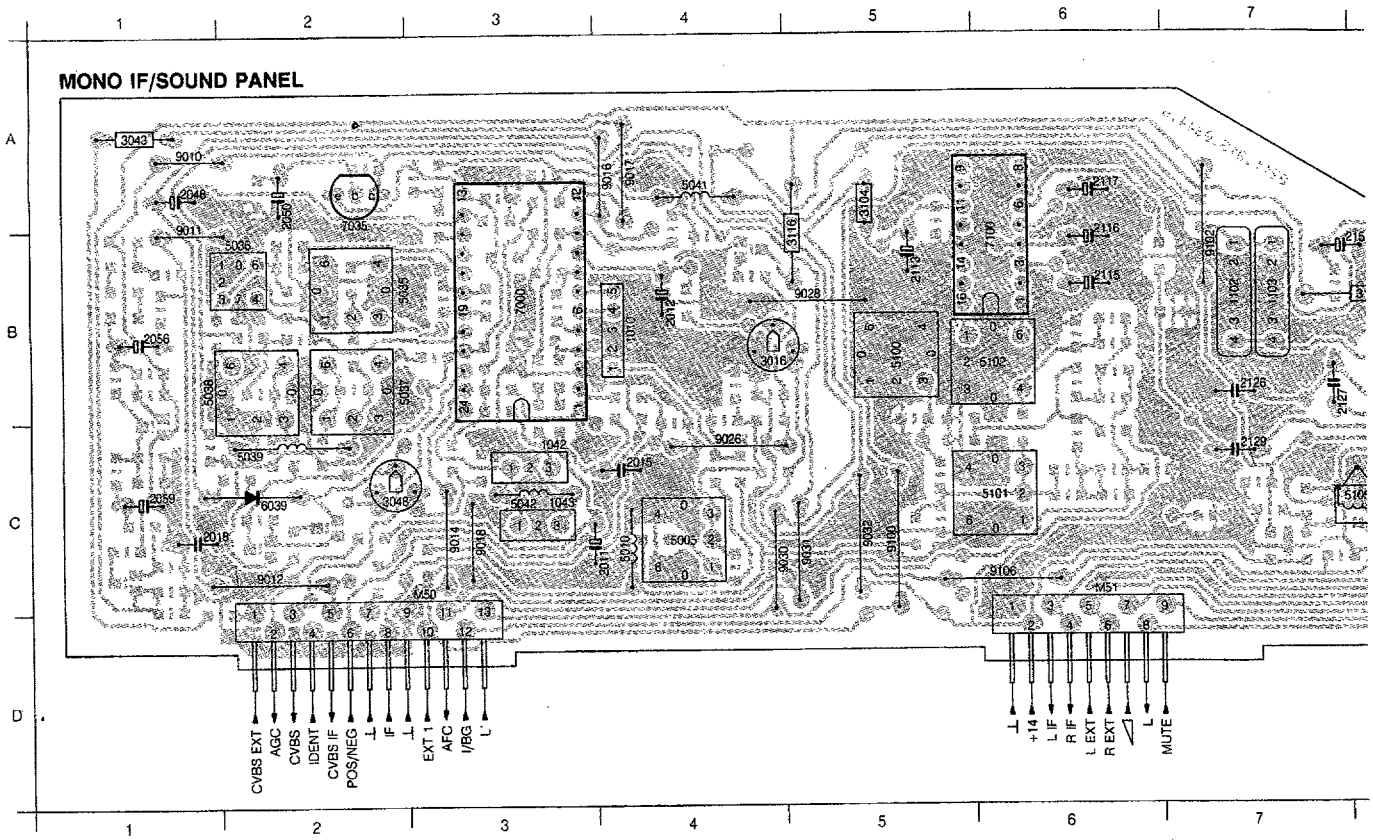
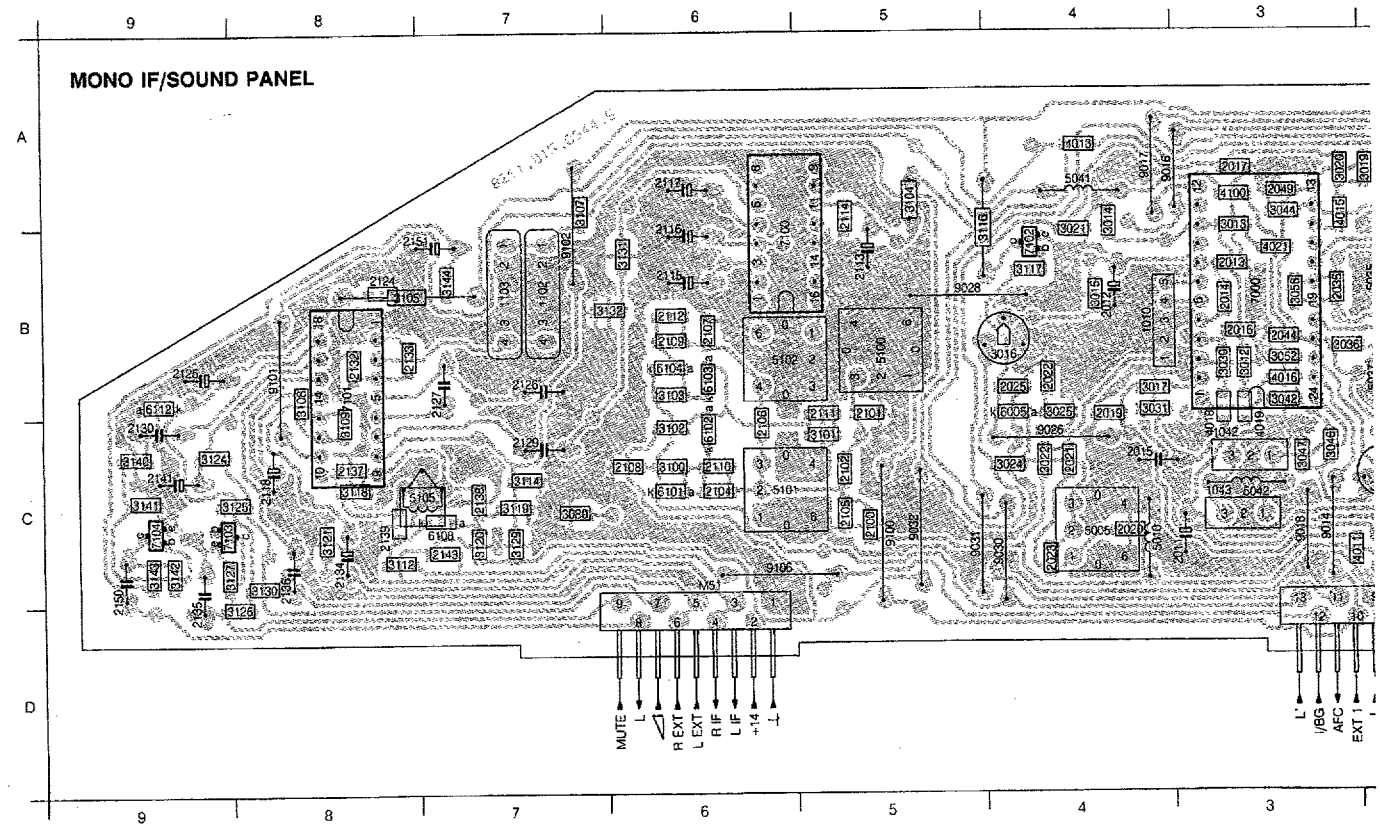
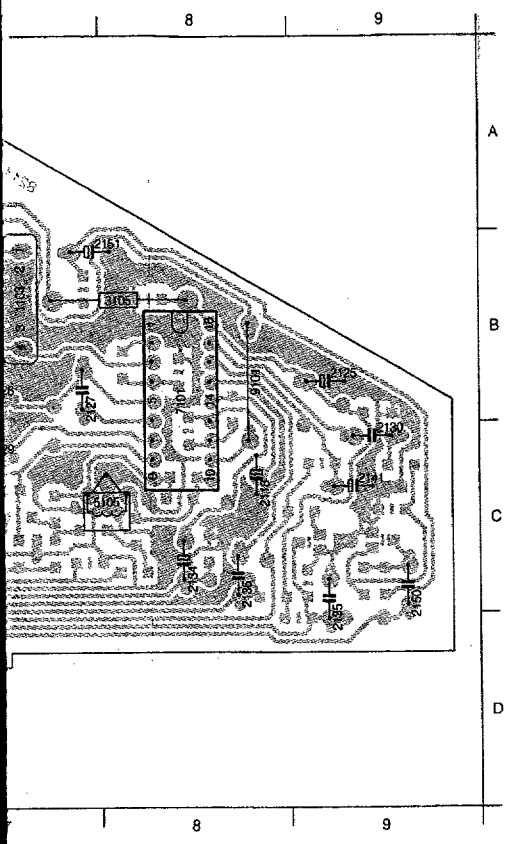
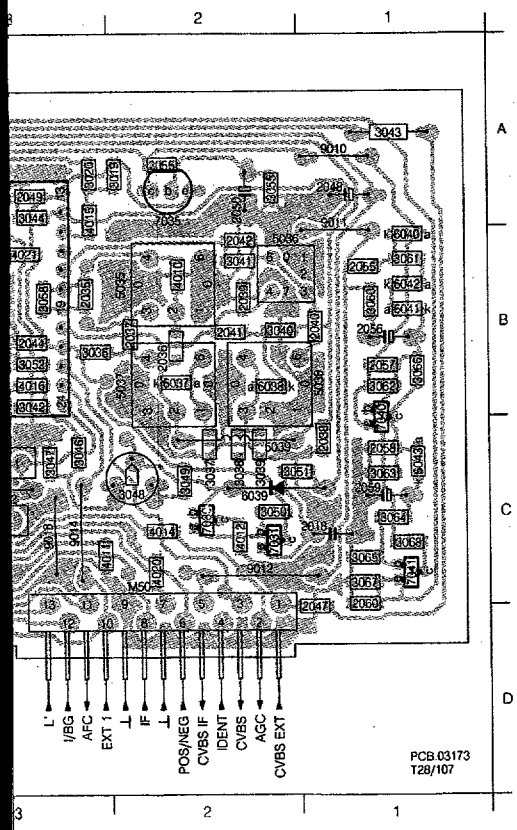
Mono IF/sound module / Mono ZF/Tonmodul /





Module FI/son mono





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1103 B7
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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
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2049 A3
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2100 C5
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2118 C8
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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
3025 C4
3030 B3
3031 C4
3036 B3
3037 C2
3038 C2
3039 C2
3040 B2
3041 B2
3042 B3
3043 A1
3044 A3
3046 C3
3047 C3
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3049 C2
3050 C2
3051 C2
3052 B3
3055 A2
3056 A2
3058 B3
3060 B1
3061 B1
3062 B1
3063 C1
3064 C1
3065 C1
3066 B1
3067 C1
3068 C1
3080 C7
3100 C6
3101 C5
3102 C6
3103 B6
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3107 B7
3108 C8
3109 C8
3112 C8
3114 C7
3116 B5
3117 B4
3118 C8
3119 C7
3120 C7
3121 C8
3124 C9
3125 C8
3126 D8
3127 C9
3129 C7
3130 C8
3131 B7
3132 B6
3140 C9
3141 C9
3142 C9
3143 C9
3144 B7
4010 B2
4011 C3
4012 C2
4013 A4
4014 C2
4015 B3
4016 B3
4018 C3
4019 C3
4020 C2
4021 B3
4100 A3
5005 C4
5010 C4
5035 B3
5036 B2
5037 B3
5038 B1
5039 C2
5041 A4
5042 C3
5100 B5
5101 C6
5102 B6
5105 C7
6005 C4
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6041 B1
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6108 C7
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7000 B3
7030 C2
7031 C2
7035 A2
7040 C1
7041 C1
7100 B6
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7102 B4
7103 C9
7104 C9
9010 A1
9011 B1
9012 C2
9014 C3
9016 A4
9017 A4
9018 C3
9026 C4
9028 B5
9030 C5
9031 C5
9032 C5
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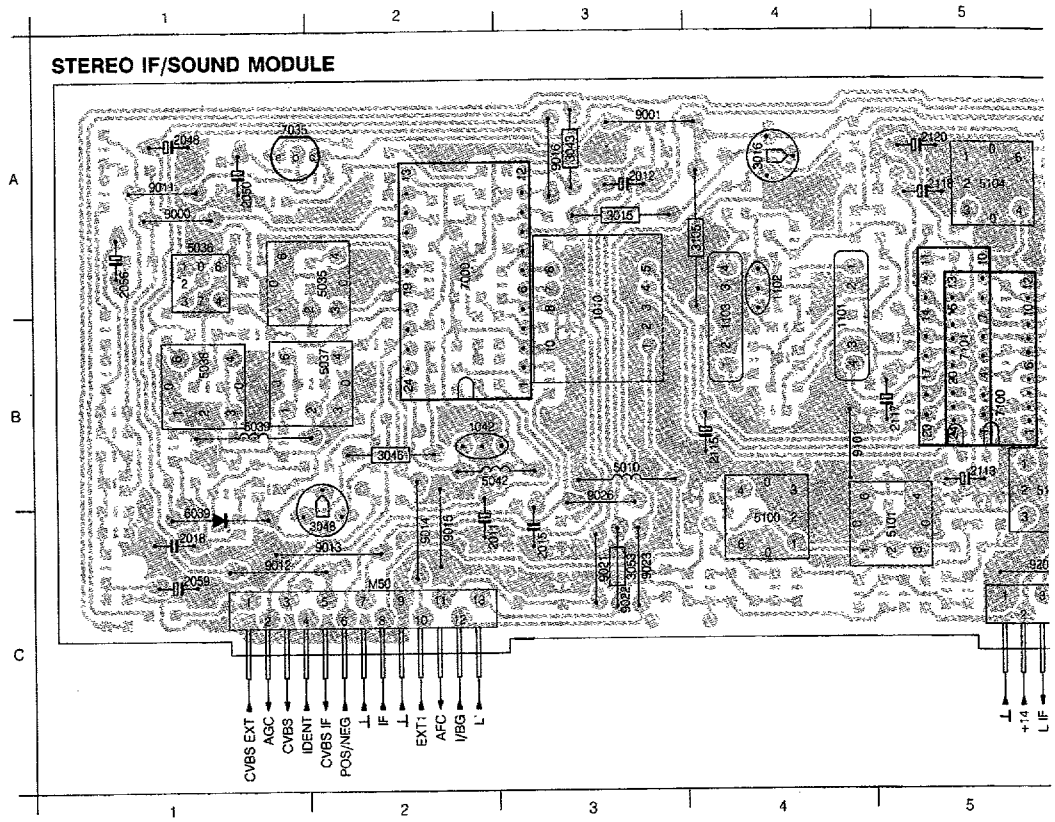
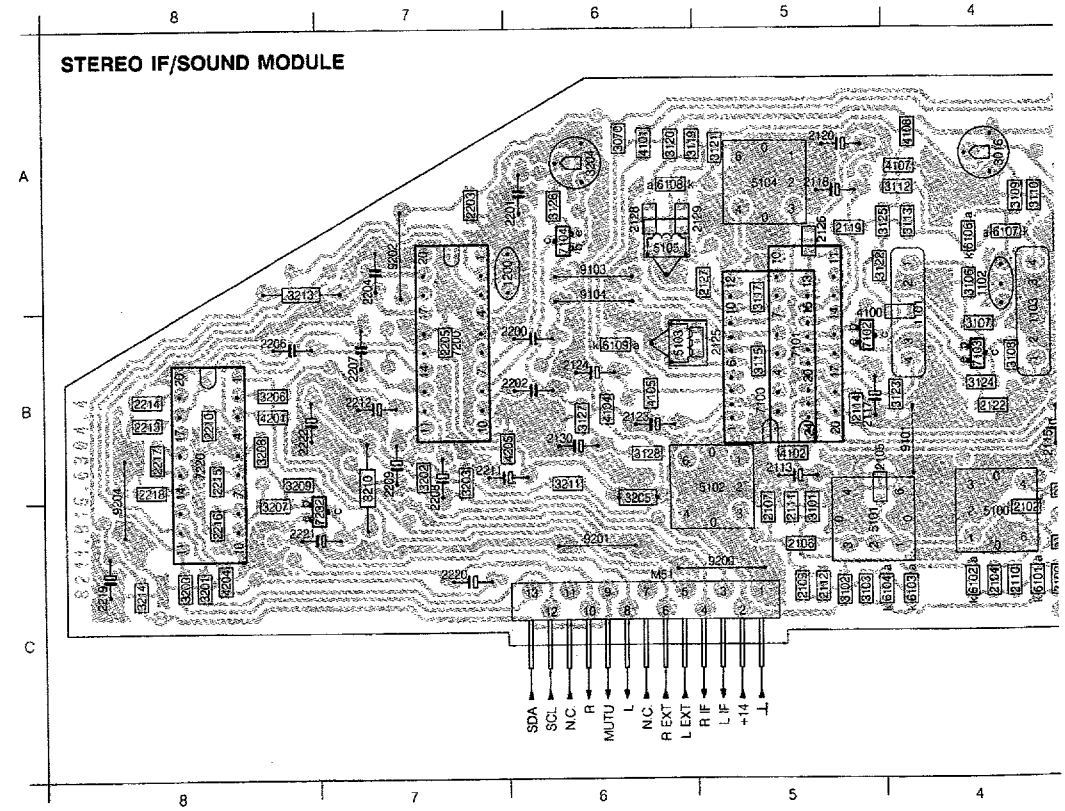
9101 B8
9102 B7
9106 C6

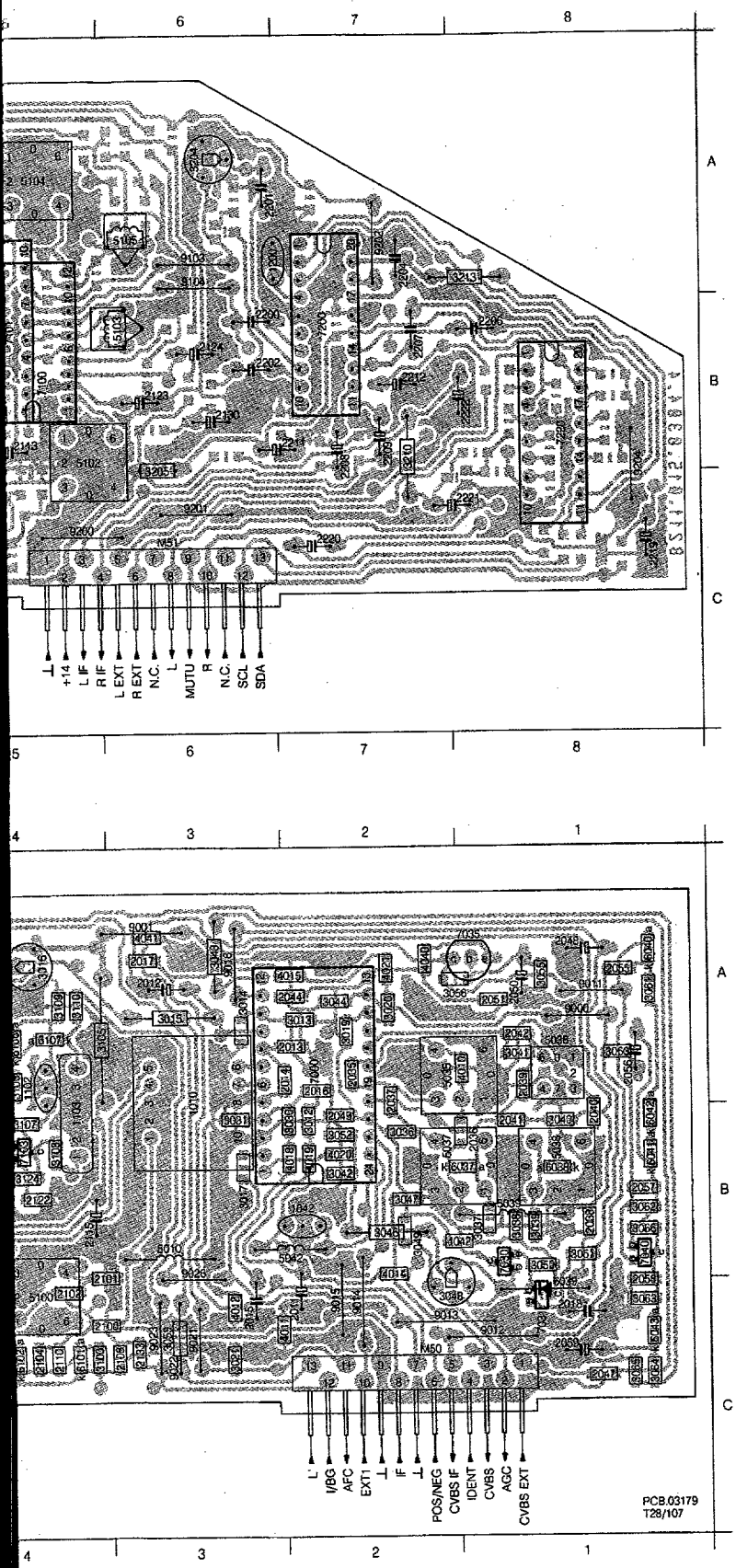
Stereo IF/sound module / Stereo ZF/Tonmodul /

CHASSIS GR2.1 | 6.35





Module FI/son stéréo



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1101	B4	3102	C5
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
2128	A6	4204	C8
2129	A6	4205	B7
2130	B6	5010	B3
2133	C3	5035	A2
2200	B6	5036	A1
2201	A7	5037	B2
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
2212	B7	6038	B1
2213	B8	6039	C1
2214	B8	6040	A1
2215	B8	6041	B1
2216	C8	6042	B1
2217	B8	6043	C1
2218	B8	6101	C4
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
3021	C3	7100	B5
3030	B3	7101	B5
3031	B3	7102	B5
3036	B2	7103	B4
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
3048	C2	9015	C2
3049	B2	9016	A3
3050	B1	9021	C3
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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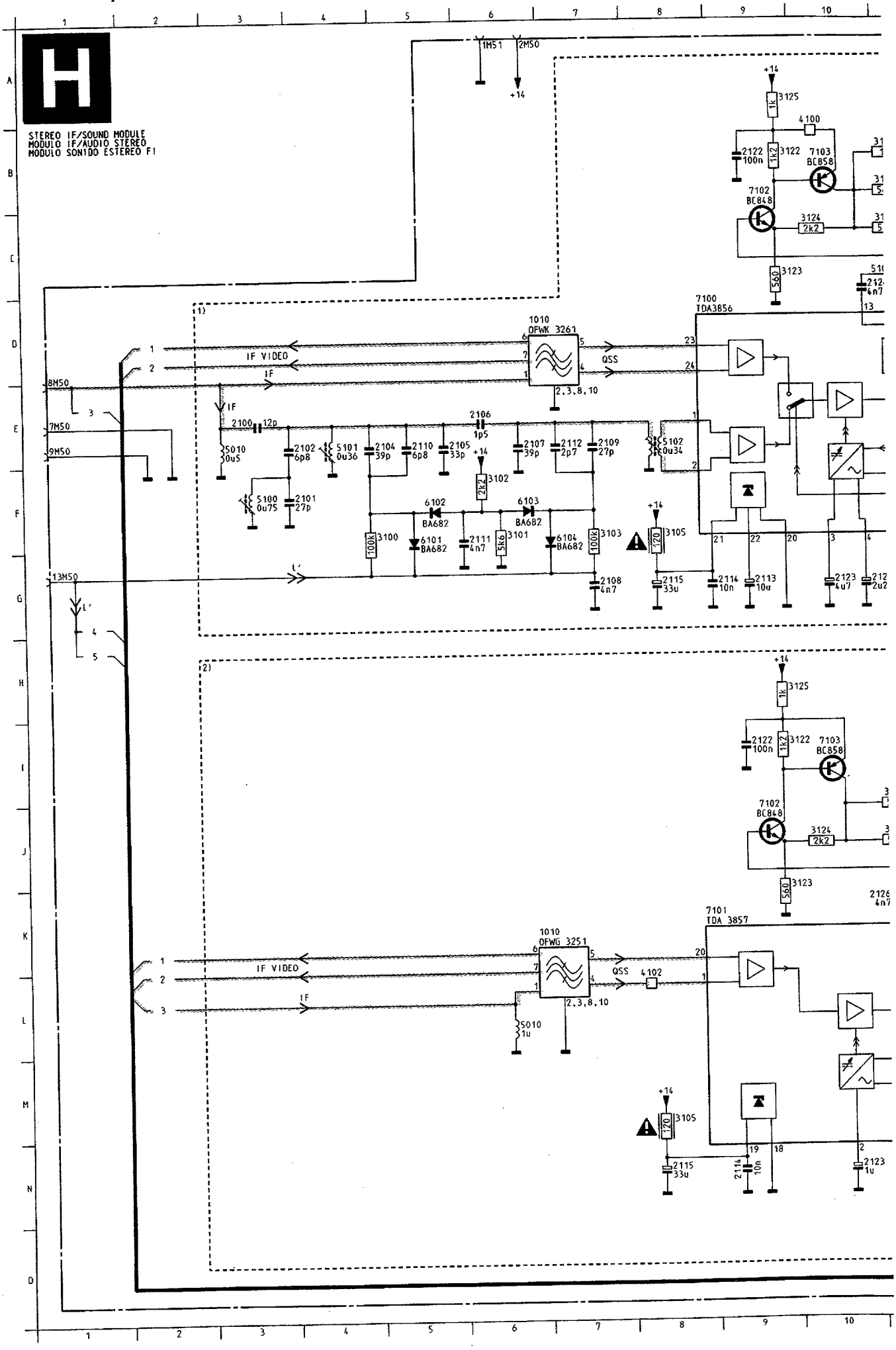
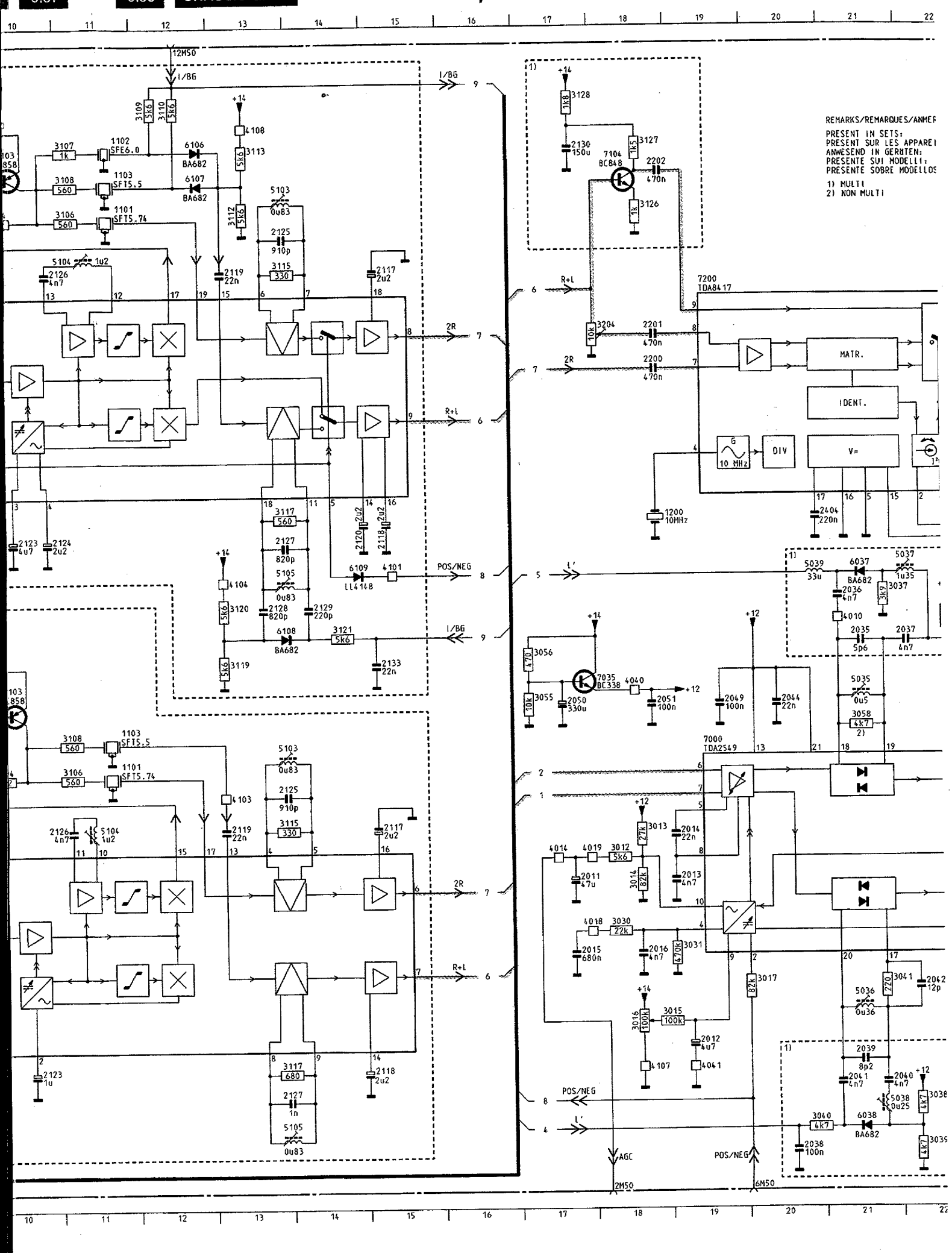
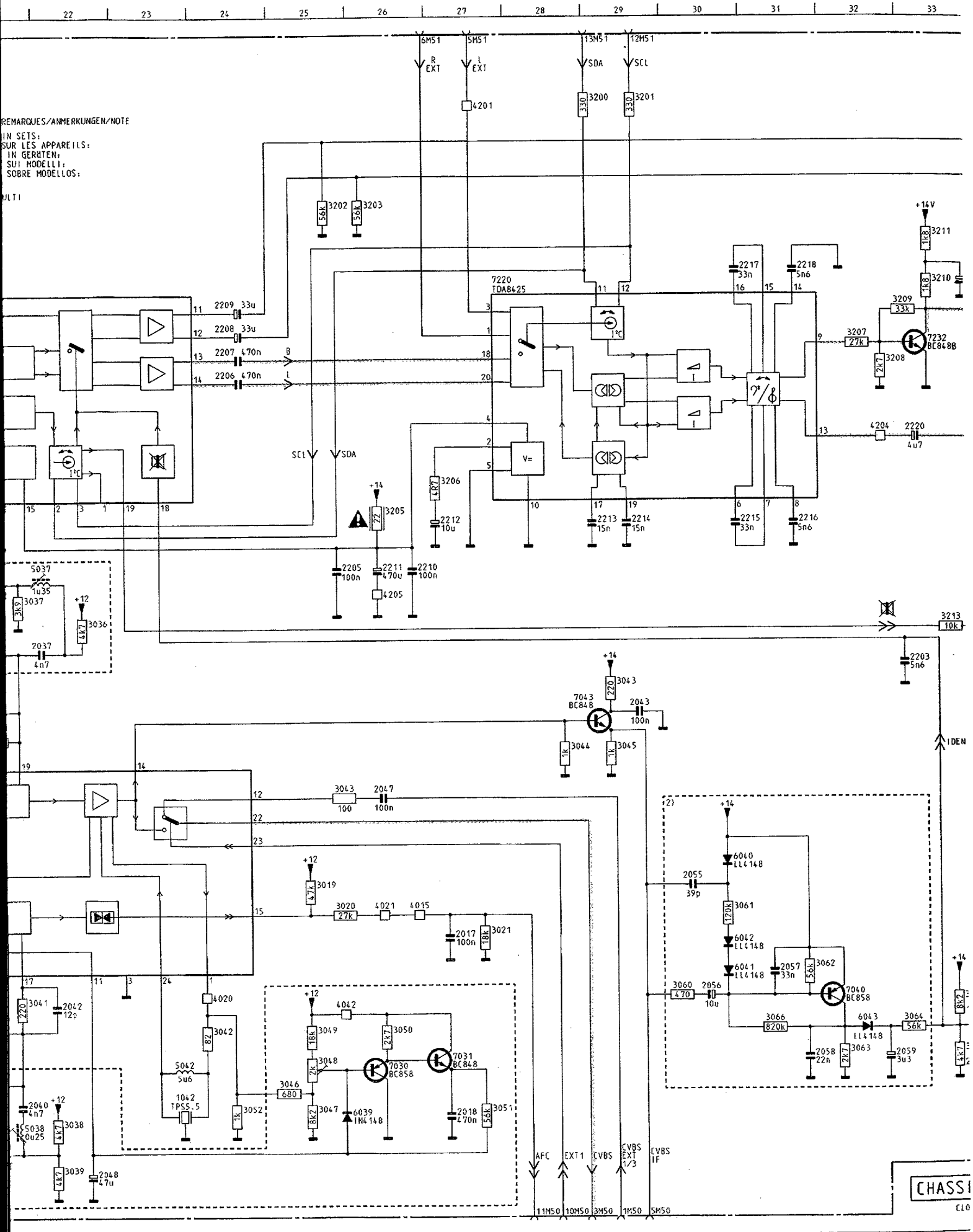
3064	C1	9204	C8
3065	C1		

Stereo IF/sound module / Stereo ZF/Tonmodul /



Module FI/son stéréo




REMARQUES/ANMERKUNGEN/NOTE
IN SETS:
SUR LES APPAREILS:
IN GERÄTEN:
SUI MODELLI:
SOBRE MODELLOS:
ULTI
6M51
5M51
13M51
12M51
R EXT
L EXT
SDA
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
2216 5n6
2217 33n
2218 5n6
+14V
3211
3210
3209 33k
3207 27k
7232 BC848B
3208 2k7
4204
2220 4u7
3213 10k
2203 5n6
IDEN
5037 1u35
3037 3k9
2037 4n7
3036 4k7
+12
7043 BC848
3043 220
2043 100n
3044 1k
3045 1k
3043 100
2047 100n
3019 47k
3020 27k
4021
4015
2017 100n
3021 18k
4020
3041 220
2042 12p
3042 82
5042 5u6
1042 TPS5.5
3052 1k
3046 680
4042
3049 18k
3050 2k7
3048 2k
7030 BC858
7031 BC848
3047 6k2
6039 1N4148
2018 470n
3051 56k
2040 4n7
5038 0u25
3038 4k7
3039 4k7
2048 47u
2)
6040 LL4148
2055 39p
3061 120k
6042 LL4148
6041 LL4148
2057 33n
3062 56k
7040 BC858
3060 470
2056 10u
3066 820k
6043 LL4148
3064 56k
2058 22n
3063 2k7
2059 3u3
8k2
4k7
AFC
EXT1
CVBS
CVBS EXT 1/3
CVBS IF
11M50
10M50
3M50
1M50
5M50
22
23
24
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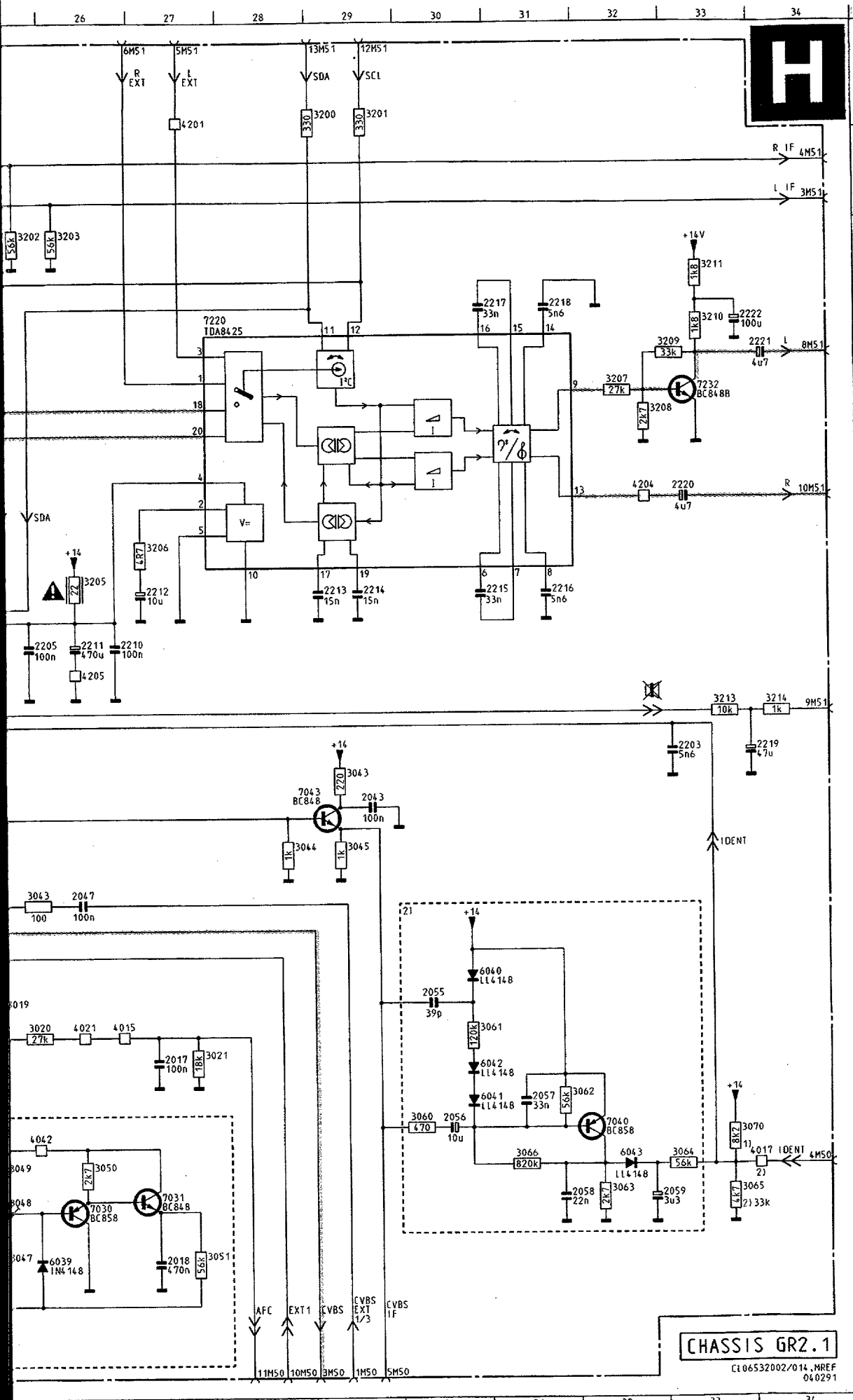
33



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	1010	K 6	3043	I29	6103	F 6
	1042	N23	3043	J25	6104	F 7
	1101	C11	3044	I28	6106	B12
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	D20	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		
	2047	J26	3105	F 8		
D	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		
F	2106	E 6	3119	I13		
	2107	E 6	3120	H13		
	2108	G 7	3121	H14		
	2109	E 7	3122	B 9		
	2110	E 5	3122	I 9		
	2111	F 6	3123	C 9		
	2112	E 7	3123	K 9		
	2113	G 9	3124	C10		
G	2114	G 9	3124	J10		
	2114	N 9	3125	A 9		
	2115	G 8	3125	H 9		
	2115	N 8	3126	C18		
	2117	D15	3127	B18		
	2117	K15	3128	A17		
	2118	G15	3200	A29		
H	2118	N15	3201	A29		
	2119	D13	3202	C25		
	2119	K13	3203	C26		
	2120	G15	3204	D18		
	2122	B 9	3205	F26		
	2122	I 9	3206	F27		
	2123	G10	3207	D32		
	2123	N10	3208	E32		
I	2124	G10	3209	D33		
	2125	C14	3210	D33		
	2125	J14	3211	C33		
	2126	D10	3213	H33		
	2126	K11	3214	H34		
	2127	G14	4010	H21		
	2127	N14	4014	K17		
J	2128	H13	4015	L26		
	2129	H14	4017	M34		
	2130	B17	4018	L18		
	2133	I15	4019	K18		
	2200	E18	4020	M24		
	2201	D18	4021	L26		
	2202	B18	4040	I18		
	2203	H33	4041	N19		
K	2205	G25	4042	M25		
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	2207	E24	4101	G15		
	2208	D24	4102	L 8		
	2209	D24	4103	J13		
	2210	G26	4104	H13		
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	2212	G27	4108	B13		
L	2213	G29	4201	A27		
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	2215	G31	4205	H26		
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	2217	D31	5010	L 6		
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	2219	H34	5036	M21		
M	2220	F33	5037	G22		
	2221	D34	5038	N21		
	2222	D33	5039	G20		
	2404	G21	5042	N23		
	3012	K18	5100	F 3		
	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		
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	3031	L19	6038	O21		
	3036	H22	6039	N26		
O	3037	H21	6040	K30		
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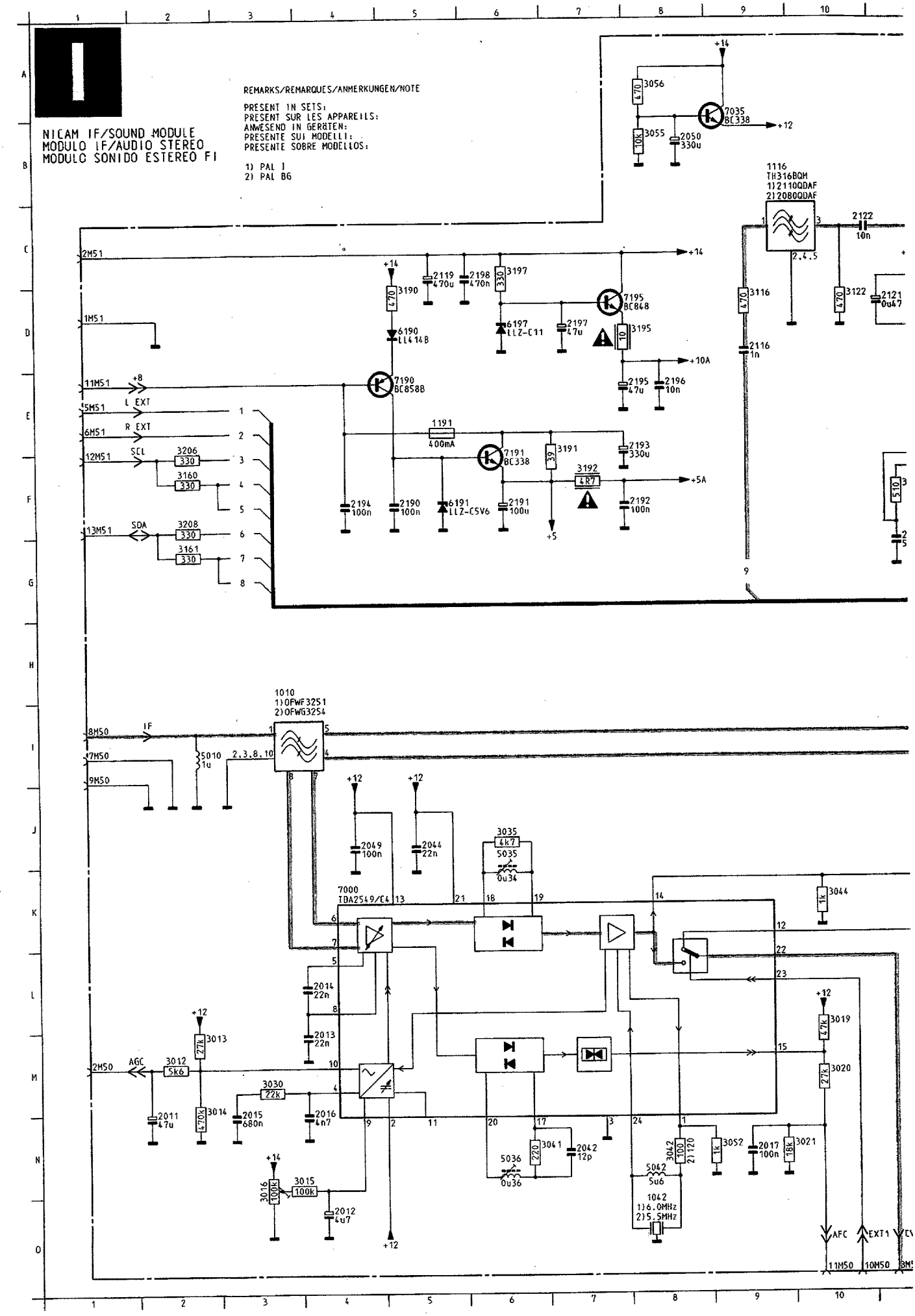
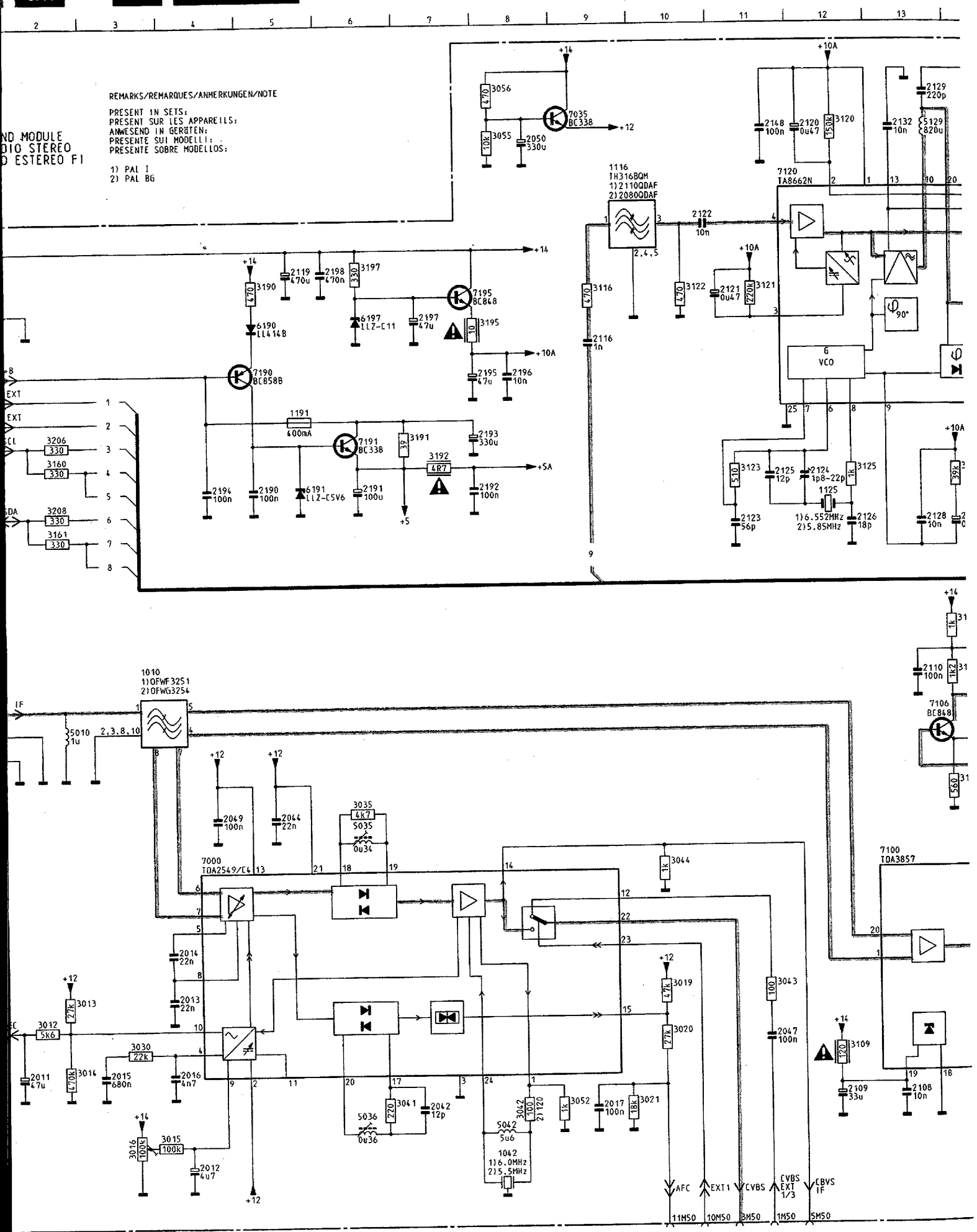
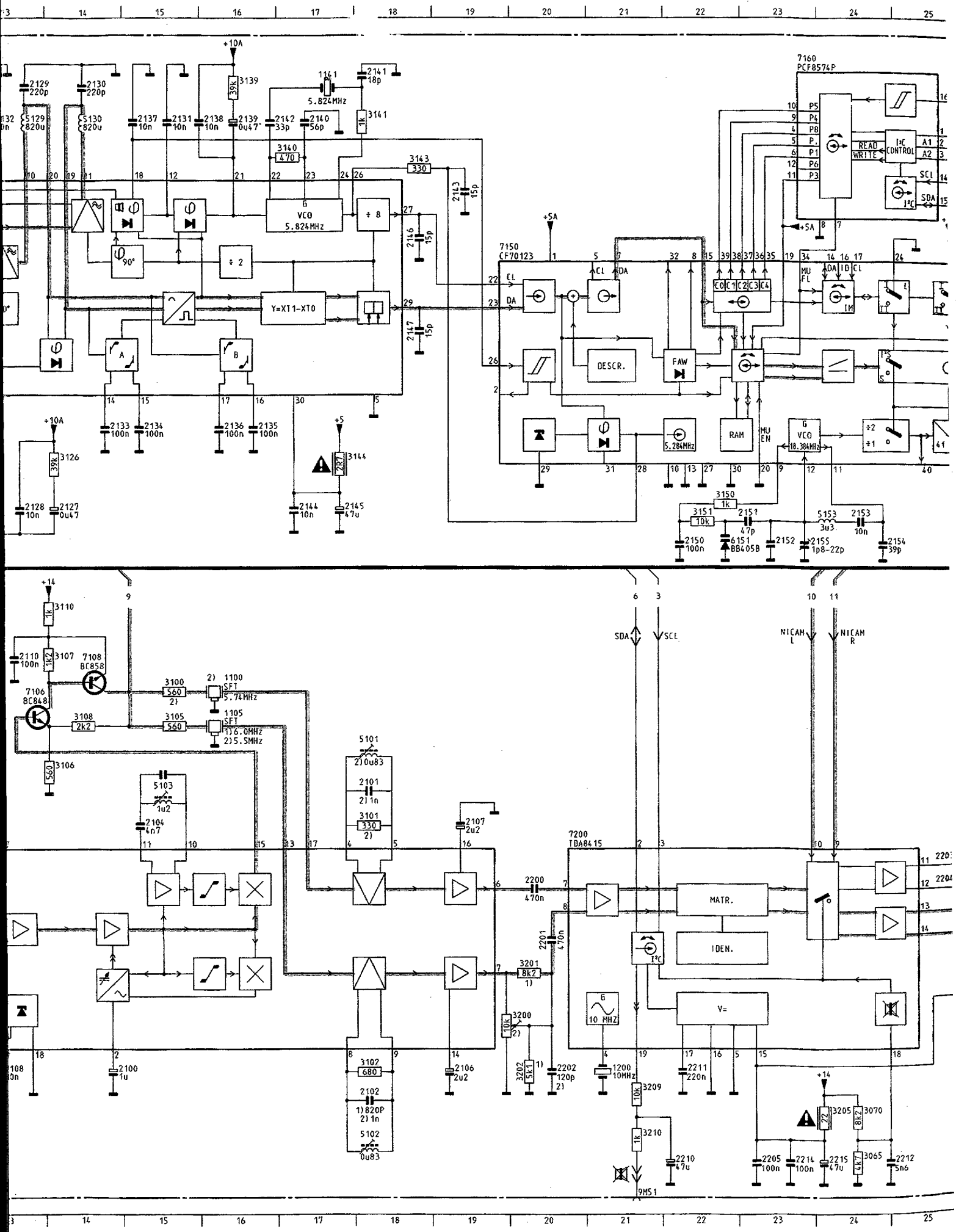
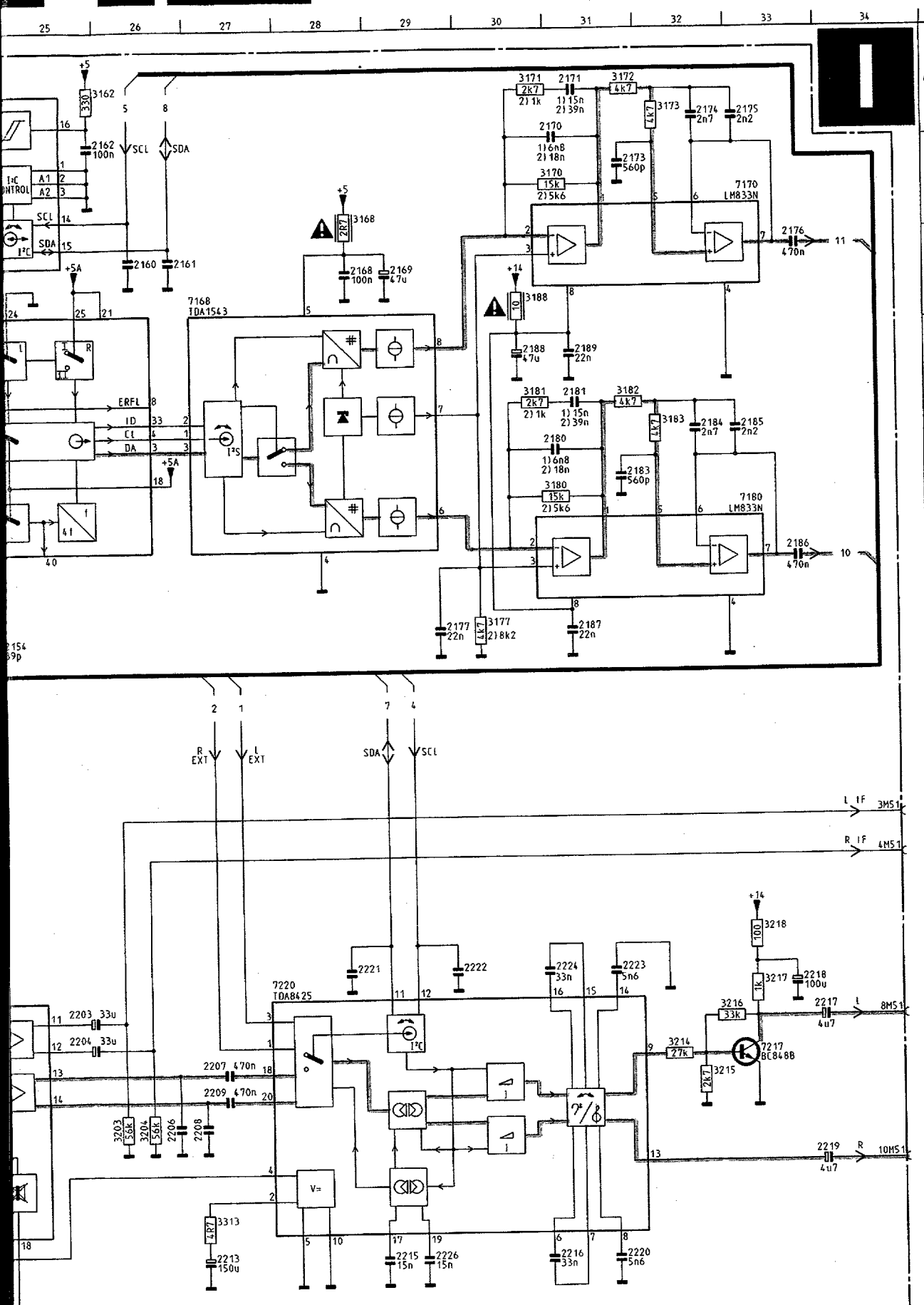

NICAM IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) PAL I
2) PAL BG
+14
3056
470
7035
BC338
+12
10K
3055
2050
330u
1116
TH316BQM
1) 2110QDAF
2) 2080QDAF
2122
10n
2,4,5
3116
3122
2121
0u47
2116
1n
2M51
1M51
11M51
+8
5M51
L EXT
6M51
R EXT
12M51
SCL
13M51
SDA
3206
3160
3208
3161
330
2119
470u
2198
470n
3197
3190
6190
LL4148
7190
BC858B
7195
BC848
6197
LLZ-C11
2197
47u
3195
10
+10A
2195
47u
2196
10n
1191
400mA
7191
BC338
3191
39
3192
4R7
2193
330u
+5A
2194
100n
2190
100n
6191
LLZ-C5V6
2191
100u
2192
100n
+5
1010
1) OFWF3251
2) OFWG3254
8M50
IF
7M50
9M50
5010
1u
2,3,8,10
2049
100n
2044
22n
3035
4k7
5035
0u34
7000
TDA2549/C4
1k
3044
2014
22n
2013
22n
+12
3013
27k
2M50
AGC
3012
5k6
3030
22k
2011
47u
470k
3014
2015
680n
2016
4n7
3041
220
2042
12p
5036
0u36
3042
100
2) 120
1k
3052
2017
100n
18k
3021
5042
5u6
1042
1) 6.0MHz
2) 5.5MHz
3019
47k
3020
27k
3016
100k
3015
100k
2012
4u7
AFC
EXT1
11M50
10M50


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
ND MODULE
DIO STEREO
D ESTEREO FI
+14
+10A
+12
+5
+5A
7120 TA8662N
1116 TH316BQM 1)2110QDAF 2)2080QDAF
7195 BC848
7190 BC858B
7191 BC338
7035 BC338
6190 LL414B
6191 LLZ-C5V6
6197 LLZ-C11
1191 400mA
3192 4R7
1125 1)6.552MHz 2)5.85MHz
VCO
90°
1010 1)OFWF3251 2)OFWG3254
7000 TDA2549/C6
7100 TDA3857
7106 BC848
1042 1)16.0MHz 2)15.5MHz
AFC
EXT1
CVBS
CVBS EXT 1/3
CBVS IF
11M50
10M50
3M50
1M50
5M50

NICAM IF/sound module / NICAM ZF/Tonmodul /



Module FI/son NICAM



	1010	H 3	2218	K33
	1042	O 8	2219	M34
	1100	I 16	2220	N31
	1105	I 16	2221	K28
A	1116	B 9	2222	K30
	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 6	3042	N 8
C	2050	B 8	3043	L11
	2100	N14	3044	K10
	2101	J18	3052	N 9
	2102	N18	3055	B 8
	2104	K15	3056	A 8
	2106	N19	3065	O24
	2107	K19	3070	N24
	2108	N13	3100	I15
D	2109	N12	3101	K18
	2110	I13	3102	N18
	2116	D 9	3105	I15
	2119	C 5	3106	J14
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	2122	C10	3109	M12
E	2123	G11	3110	H14
	2124	F12	3116	D 9
	2125	F11	3120	A12
	2126	G12	3121	D11
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	2130	A14	3126	F14
F	2131	B15	3139	A16
	2132	B13	3140	B17
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	2141	A18	3168	B28
	2142	B17	3170	B31
	2143	C19	3171	A30
	2144	G17	3172	A31
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	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
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	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
	2177	G29	3210	O21
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	2183	E31	3216	K32
	2184	E32	3217	K33
	2185	E33	3218	J33
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	2206	L26	7108	I14
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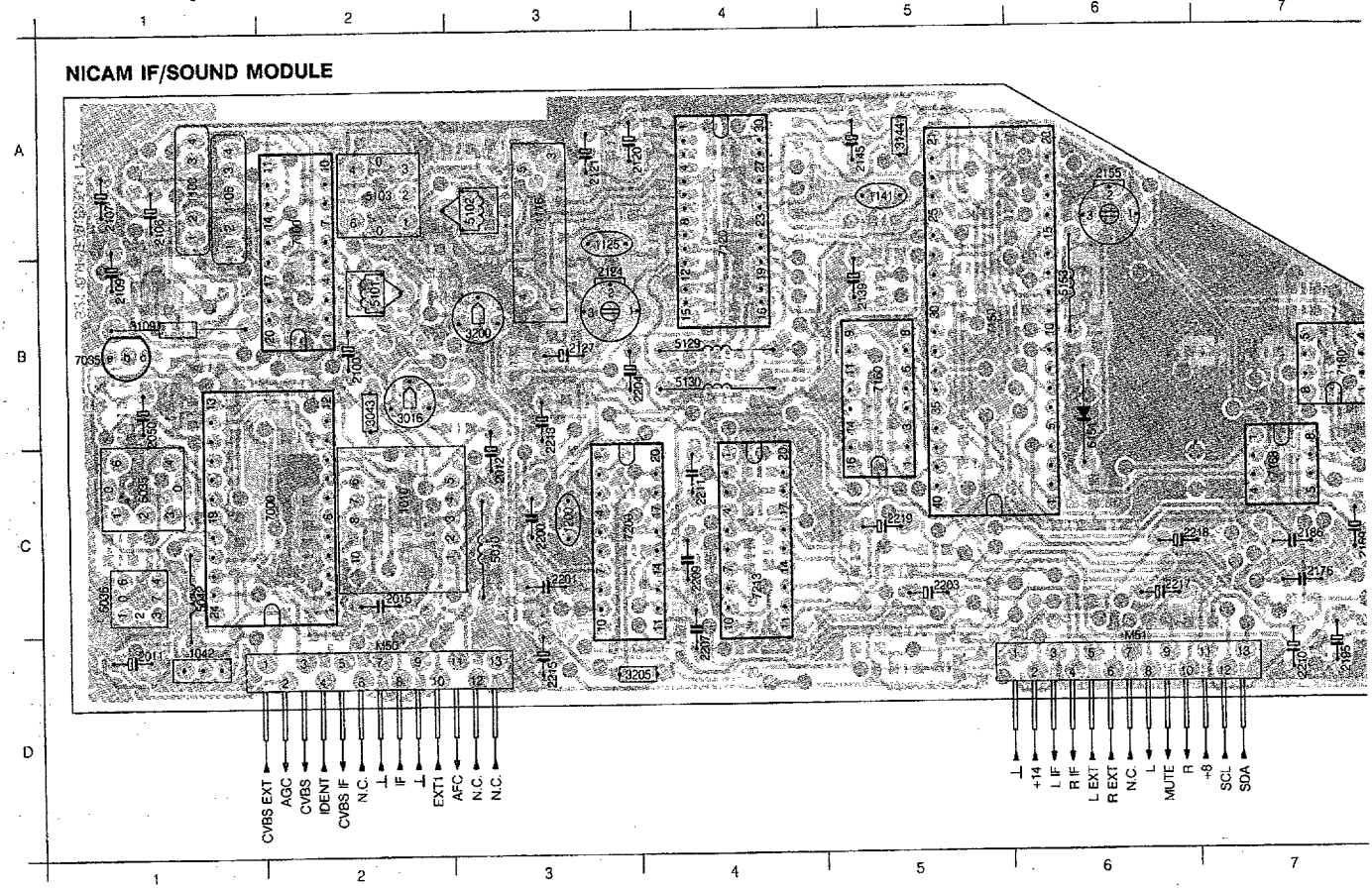

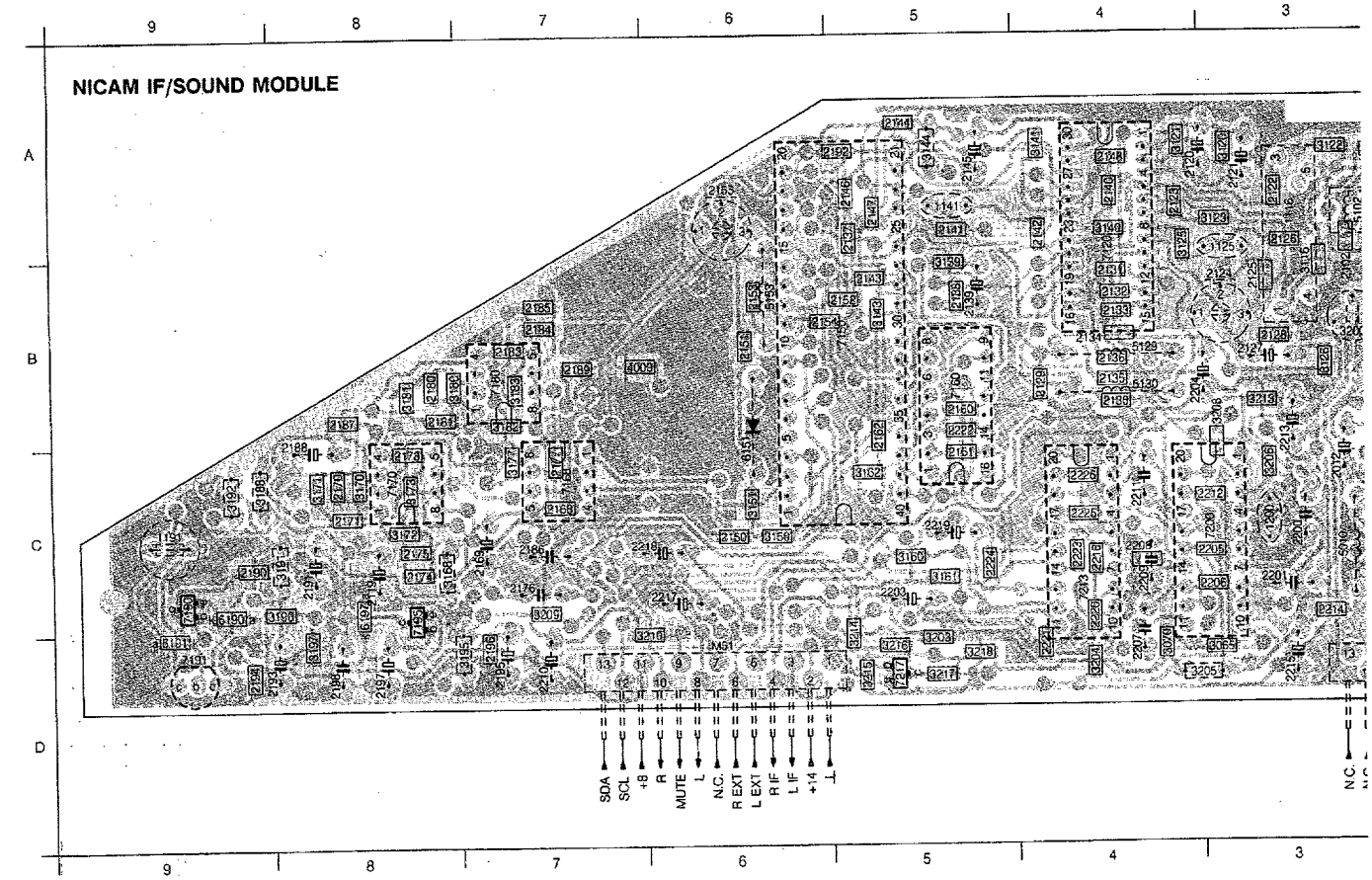

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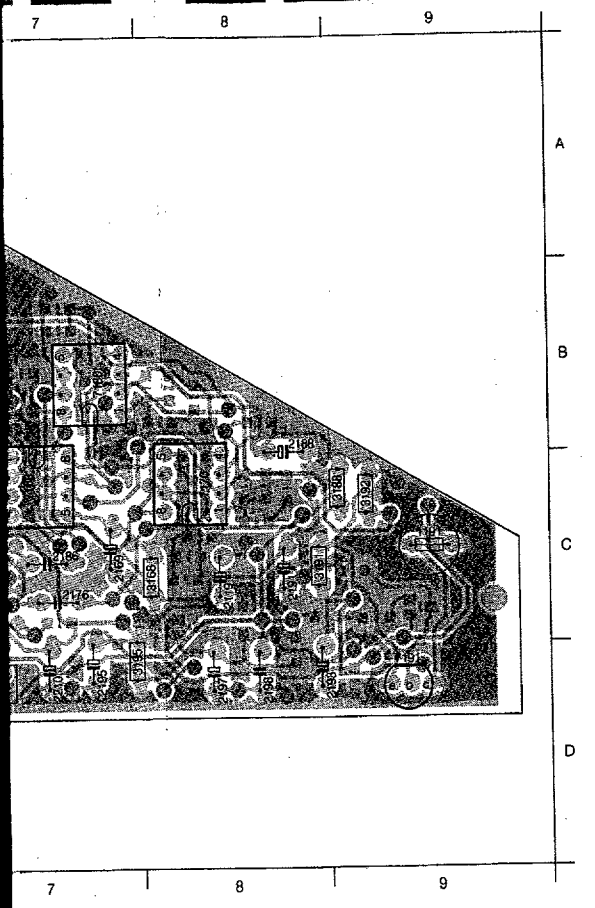

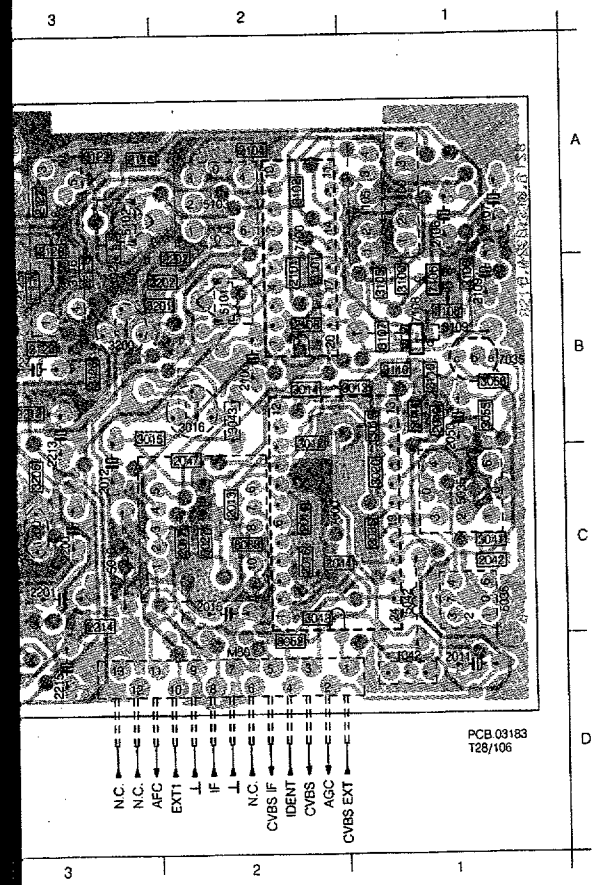

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1105	A1	3030	C2
1116	A3	3035	C1
1125	A3	3041	C1
1141	A5	3042	C2
1191	C9	3043	B2
1200	C3	3044	B1
2011	D1	3052	D2
2012	C3	3055	B1
2013	C2	3056	B1
2014	C2	3065	D3
2015	C2	3070	D4
2016	C2	3100	B1
2017	C2	3101	B2
2042	C1	3102	A2
2044	C1	3105	B1
2047	C2	3106	B1
2049	B1	3107	B1
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2100	B2	3109	B1
2101	B2	3110	B1
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2108	B2	3123	A3
2109	B1	3125	B4
2110	B1	3126	B3
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2123	A4	3150	C6
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2125	B3	3160	C5
2126	A3	3161	C5
2127	B3	3162	C5
2128	B3	3168	C8
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2160	B5	3214	D5
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2162	C5	3216	D5
2168	C7	3217	D5
2169	C7	3218	D5
2170	C8	4000	B6
2171	C8	5010	C3
2173	C8	5035	C1
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2220	C4		
2221	D4		
2222	B5		
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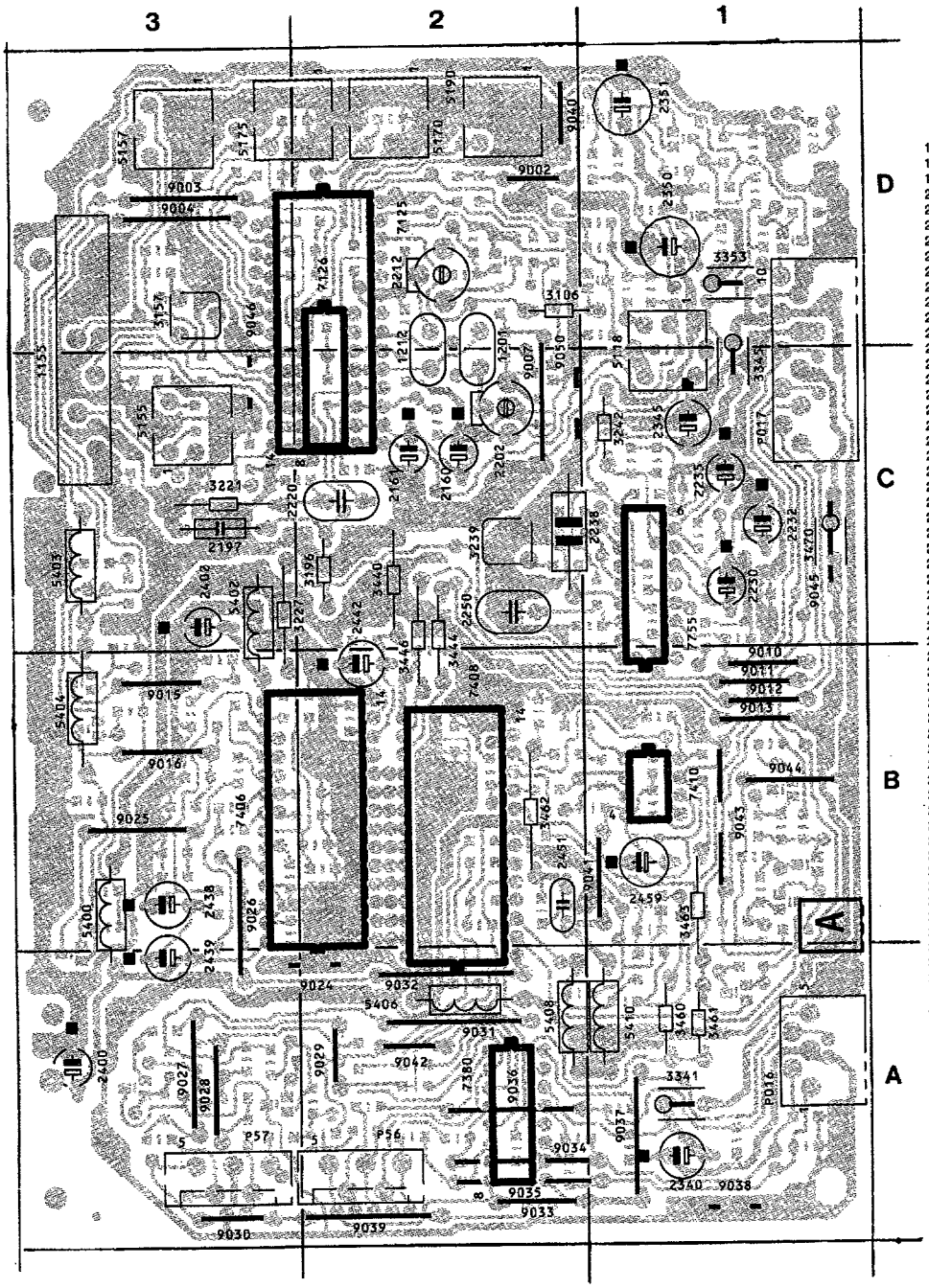

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2381 A2
2382 A2
2383 A2
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2399 C1
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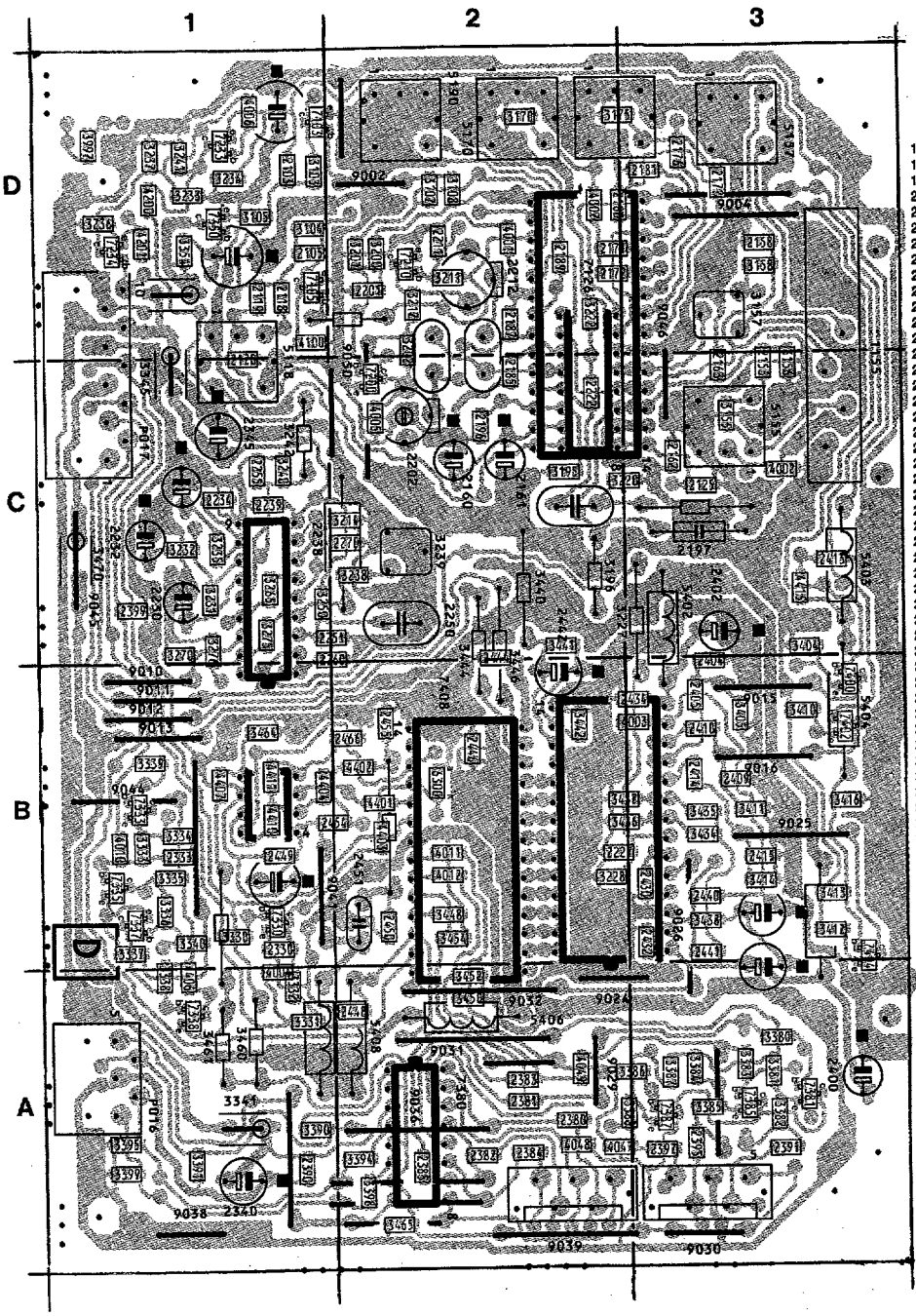

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B1	9012 B1	2125 C3	2432 B3	3334 B1	4010 B1	9012 B1			
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B2	9015 B3	2158 D3	2438 B3	3336 B1	4012 B2	9015 B3			
A2	9016 B3	2160 C2	2439 A3	3337 B1	4047 A2	9016 B3			
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D1	9025 B3	2162 C3	2441 B3	3339 B1	4049 A2	9025 B3			
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D1	9028 A3	2172 D2	2446 B2	3345 C1	4201 D1	9028 A3			
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D2	9043 B1	2222 C2	3155 C3	3395 A1	5190 D2	9043 B1			
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C3	9045 C1	2230 C1	3157 D3	3399 A1	5402 C3	9045 C1			
C3	9046 C3	2232 C1	3158 D3	3404 C3	5403 C3	9046 C3			
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B1		2380 A2	3231 C1	3444 C2	7335 B1				
B1		2381 A2	3232 C1	3446 C2	7337 B1				
A1		2382 A2	3233 D1	3448 B2	7338 A1				
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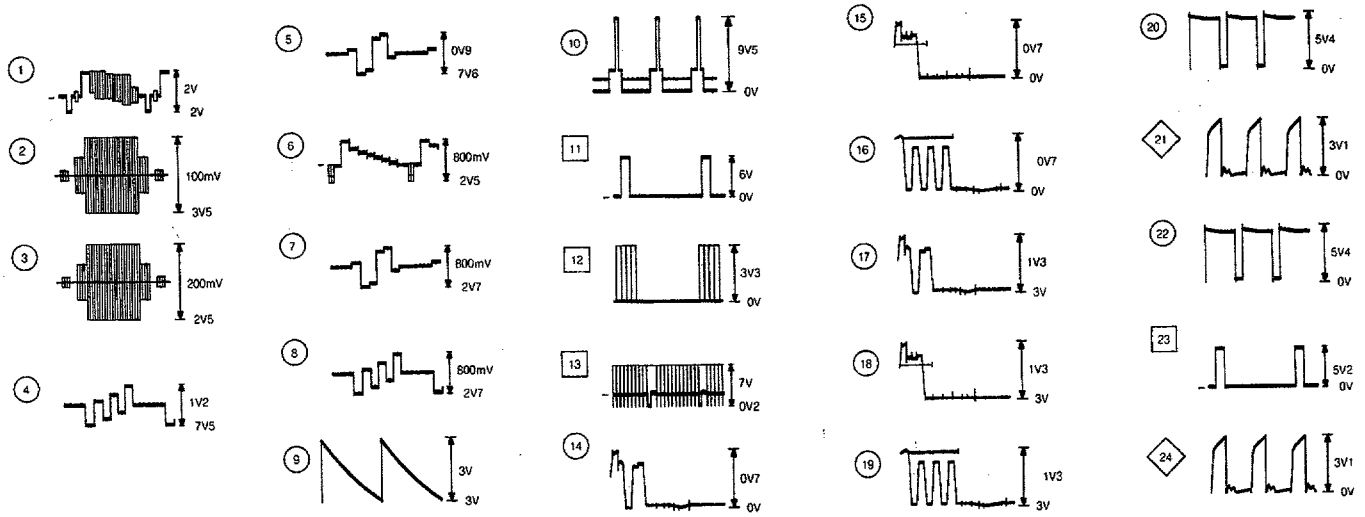

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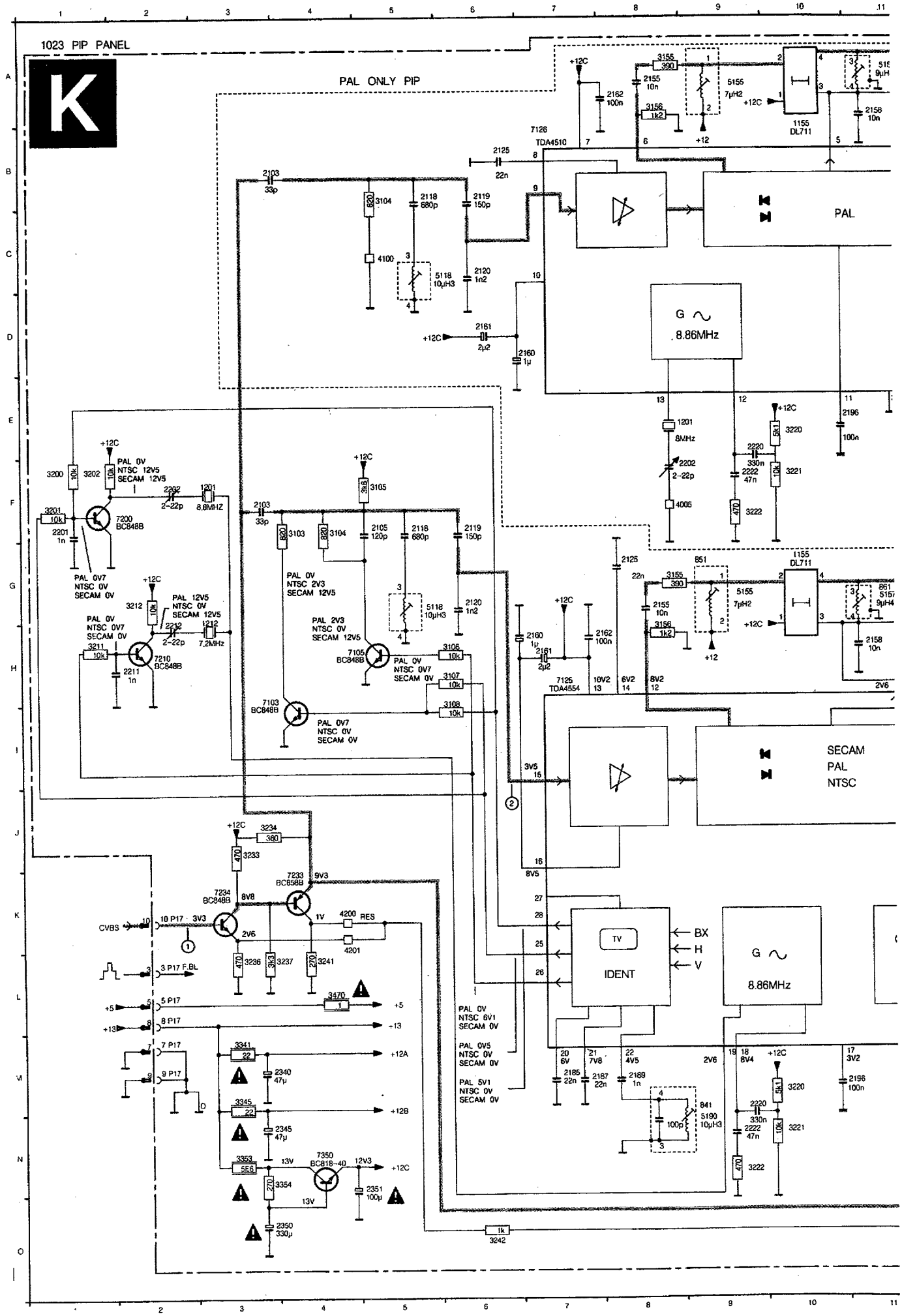

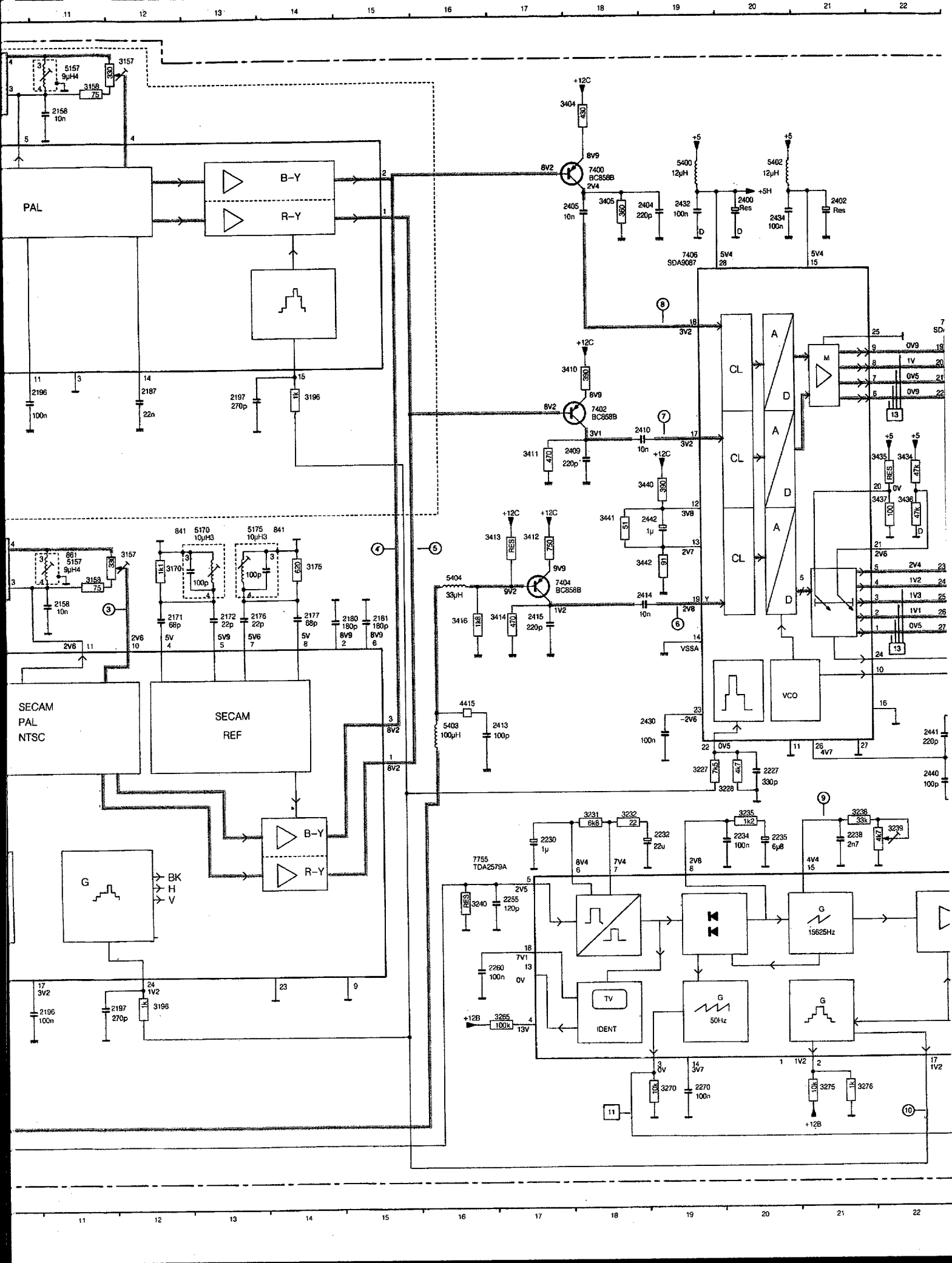
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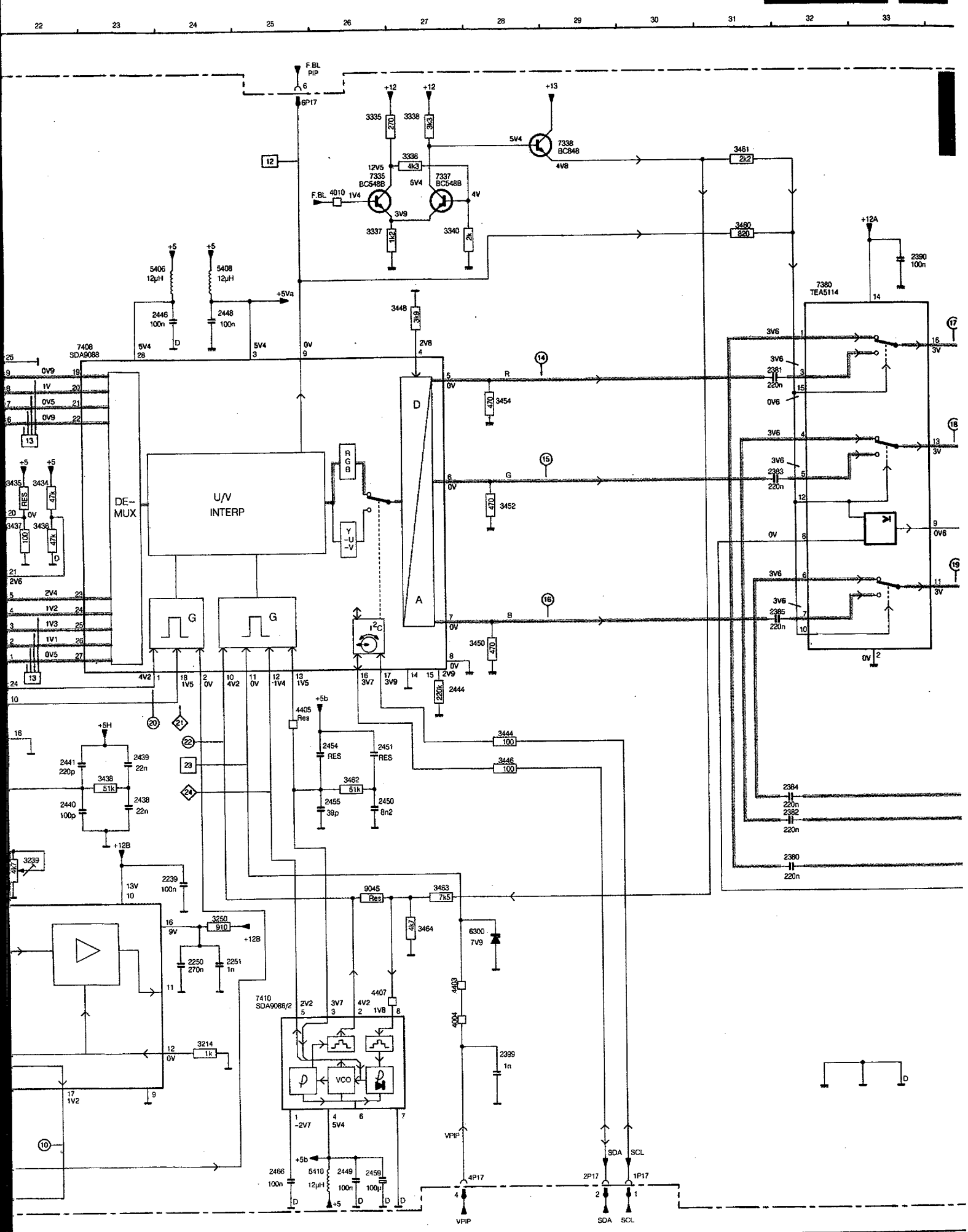
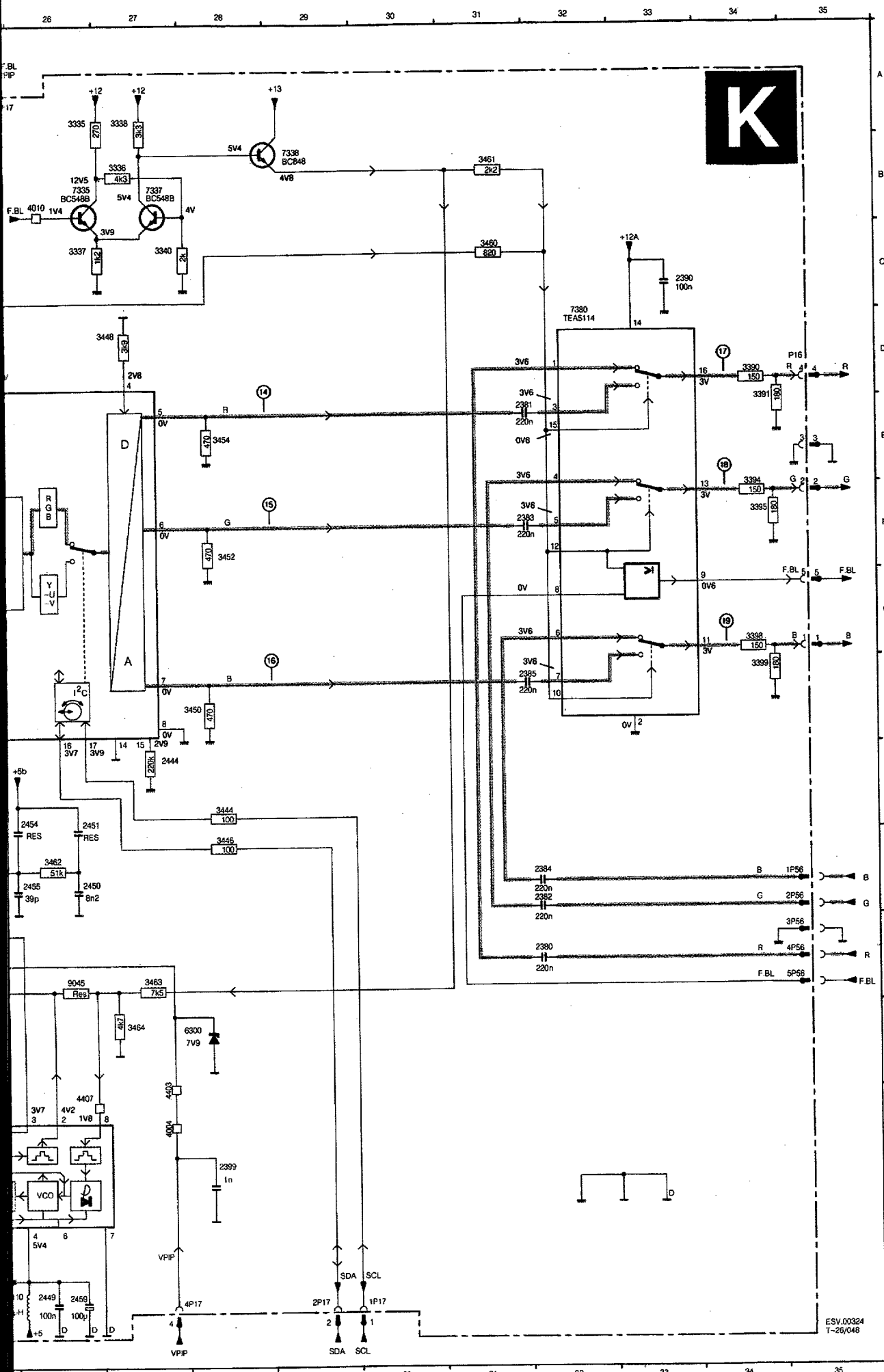
13V
3V7


F.BL PIP
6P17
+12
+13
5V4
7338 BC848
4V8
3335 270
3338 3k3
3336 4k3
12V5
7335 BC548B
7337 BC548B
F.BL 4010 1V4
3V9
4V
3337 1k2
3340 2k
3461 2k2
3460 820
+12A
2390 100n
5406 12µH
5408 12µH
+5Va
2446 100n
2448 100n
3448 3k9
2V8
7408 SDA9088
5V4
0V
7380 TEA5114
3V6
0V6
3V
2381 220n
2383 220n
2385 220n
2384 220n
2382 220n
2380 220n
3454 470
3452 470
3450 470
DE-MUX
U/V INTERP
R G B
Y -U -V
D
A
G
I²C
2444 220n
3435 RES
3434 47k
3437 100
3436 47k
2V6
2V4
1V2
1V3
1V1
0V5
0V9
1V
4V2
1V5
3V7
3V9
2V9
4405 Res
+5b
2454 RES
2451 RES
3462 51k
2455 39p
2450 8n2
3444 100
3446 100
+5H
2441 220p
2439 22n
3438 51k
2440 100p
2438 22n
+12B
3239 4k7
2239 100n
13V
9045 Res
3483 7k5
3250 910
9V
2250 270n
2251 1n
4k7 3464
6300 7V9
4403
4004
2399 1n
7410 SDA9088/2
4407
1V8
VCO
-2V7
5V4
3214 1k
VPIP
4P17
2P17
1P17
SDA
SCL
2466 100n
5410 12µH
2449 100n
2459 100µ



1155	B10	3275	N21
1155	G10	3276	N21
1201	E9	3335	A26
1201	F3	3336	B27
1212	H3	3337	C26
2103	B4	3338	A27
2103	F3	3340	C27
2105	F5	3341	M3
2118	B5	3345	M3
2118	F5	3353	N3
2119	B6	3354	N3
2119	F6	3390	D34
2120	C6	3391	E34
2120	G6	3394	F34
2125	B6	3395	F34
2125	G8	3398	G34
2155	A8	3399	H34
2155	G8	3404	A18
2158	A11	3405	C18
2158	H11	3410	E18
2160	D7	3411	F17
2160	H7	3412	G17
2161	D6	3413	G17
2161	H7	3414	H17
2162	A8	3416	H16
2162	H8	3434	F22
2171	H12	3435	F22
2172	H13	3436	G22
2176	H13	3437	G22
2177	H14	3438	J23
2180	H15	3440	F19
2181	H15	3441	G18
2185	M7	3442	G19
2187	E12	3444	I 28
2187	M7	3446	J28
2189	M8	3448	D27
2196	E11	3450	H28
2196	M11	3452	F28
2197	E13	3454	E28
2197	M12	3460	C31
2201	F1	3461	B31
2202	F2	3462	J26
2202	F9	3463	K27
2211	H2	3464	L27
2212	H2	3470	L4
2220	E9	4004	M27
2220	M9	4005	F9
2222	F9	4010	B26
2222	N9	4100	C5
2227	J20	4200	K4
2230	K17	4201	K4
2232	K19	4403	M27
2234	K20	4405	I 25
2235	K20	4407	M26
2238	K21	4415	I 16
2239	K24	5118	C6
2250	L24	5118	G5
2251	L24	5155	A9
2255	L17	5155	G9
2260	M16	5157	A11
2270	N19	5157	G11
2340	M3	5170	G13
2345	N3	5175	G13
2350	O3	5190	N9
2351	N5	5400	B19
2380	K32	5402	B20
2381	E32	5403	I 16
2382	J32	5404	G16
2383	F32	5406	C24
2384	J32	5408	C24
2385	H32	5410	O25
2390	C33	6300	L28
2399	M28	7103	H4
2400	C20	7105	H5
2402	C21	7125	H7
2404	C19	7126	B7
2405	C18	7200	F2
2409	F18	7210	H2
2410	F19	7233	K4
2413	I 17	7234	K3
2414	H19	7335	B26
2415	H17	7337	B27
2430	I 19	7338	B29
2432	C19	7350	N4
2434	C20	7380	D32
2438	J23	7400	B18
2439	J23	7402	E18
2440	J22	7404	H17
2441	J22	7406	C19
2442	G19	7408	D23
2444	I 27	7410	M25
2446	D24	7755	K16
2448	D24	9045	K26
2449	D26		
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	H5		
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		

7.1 CHASSIS GR2.1

Electrical settings

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 filte

a. Setting for PAL/SECAM

Connect a signal generat
pin 20 of the euroconnec
frequency to 4.286 MHz/
to EXT1. Connect pin 27-
(+12V). Connect an oscill
Set 5301 to maximum am
Remove the interconnecti

b. Setting for PAL sets (TD

Connect a signal generat
pin 20 of the euroconnec
frequency to 4.43 MHz. C
Connect an oscilloscope
Set 5301 to maximum am

1.11 Chroma auxiliary oscil

Connect a pattern genera
colour bar pattern. Conne
(TDA4510) or pin 17-IC7
Set 2313 so that the colo
practically stopped. Remo

1.12 SECAM demodulators (TDA4650)

Connect a pattern genera
black pattern. Connect ar
pin 1-IC7306. Set 5304 t
Connect the oscilloscope
to minimum amplitude.

1.13 White balance

Connect a pattern genera
picture. Switch on the se
and select "WHITE BALA
Set the values of "GREEN
required white balance is

1.14 Peak white limit

Switch on the service me
select "WHITE BALANCE
Set "WHITE LIMIT" to the
- 23 for blackline units
- 53 for non-blackline u
- 53 for 21" units.

1.15 Cut-off points of the p

Connect a pattern genera
picture. Switch on the se
"CUT OFF". Switch on "D
Set "RED", "GREEN" and
respective guns give no

1.16 Options

Switch on the service me
or "OPTION 2".
Switch the options "ON"
whether the following op
- "PIP" on a PIP set
- "2ND SCART" on a se
- "TELETEXT" on a tele
- "AUTO STORE" for th
in the installation men
- "SVHS" for the Y/C cc
- "MULTI SYSTEM" for
- "HYPERBAND" for a t
to the frequency band
- "UHF ONLY" for a tun
to the UHF band
- "NICAM TWIN" for ste
receive NICAM sound

al settings

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 values of "GREEN" and "BLUE" so that the required white balance is achieved.

1.14 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set "WHITE LIMIT" to the value:
- 23 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". Switch on "DISABLE" ("ON").
Set "RED", "GREEN" and "BLUE" until the respective guns give no more light on the screen.

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
- "AUTO STORE" for the automatic tuning facility in the installation menu
- "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.

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.

ıe IF/sound module

:ture demodulator
system units
ıenerator (e.g. PM 5326) via a
› pin 17 of the tuner and set its
MHz for mono sets or to
reo sets. Modulate (AM) the
ımple, 1kHz.
› VHF1 band at a tuning voltage
V at pin 11 of the tuner. The
B of the manual installation
›ped by selecting menu selection

a tuning frequency of 45 MHz.
ıce.
et the voltage at pin 15-IC7000

:or: set 5035 to a maximum
l at pin 22-IC7000.
ency of the signal generator to
system Europe on the set.
et the voltage at pin 15-IC7000

:or: set 5037 to a maximum
l at pin 22-IC7000.
suppression (mono sets):
ency of the signal generator to
›in 9-IC7000 at a fixed voltage of
ıtory supply. Tune the set to the
ect system France.
mum signal at pin 22-IC7000.

system units
ıenerator (e.g. PM 5326) via a
› pin 17 of the tuner and set its
MHz. Modulate (AM) the signal
1kHz.
et the voltage at pin 15-IC7000

:or: set 5035 to a maximum
l at pin 22-IC7000.

a strong local transmitter is
016 until the picture is not

stem units)
generator and supply a
›ar signal. Connect an
› 22-IC7000. Set the amplitude of
ith 3048 to 1.7 Vpp for stereo
› for mono units.

:er (Multisystem units)
ıenerator (e.g. PM 5326) via a
› pin 17 of the tuner and set its
MHz. Modulate (AM) the signal
mple. Tune the unit to UHF band
France. Connect an oscilloscope
ıd set 5100 to minimum

› on a fixed voltage of +2V using
y.
of the generator to 32.4 MHz
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 16-IC7101 (TDA3856) 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 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. Setting on the teletext

Connect pin 22-IC7830 to earth
frequency counter to pin 17-IC
6000 MHz ± 30kHz.
Remove the interconnection.

4. Settings on the PIP mo

Setting conditions
Before making each setting, er
picture with the prescribed sig
screen and that the unit has re
temperature (after ≈ 10 min.).

4.1 Horizontal synchronization
Do not supply an aerial or gen
Connect pin 28-IC7125 to pin 1
TDA4554 is present (PAL selec
5-IC7755 to earth.
Measure the frequency at pin 1
3239 set it to 15.625 Hz ± 25
Remove the interconnection.

4.2 Chroma bandpass filter
a. Setting for PIP modules wit
Connect a signal generator (e.g
10 of P17 and set its frequenc
Vpp.
Connect pin 27-IC7125 to 13-IC
oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitud
Remove the interconnection.
b. Setting for PIP modules with T
Connect a signal generator (e.g
10 of P17 and set its frequenc
4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin
Set 5118 to maximum amplitud

4.3 PAL chroma auxiliary oscill
Connect a pattern generator ar
colour bar pattern. Connect pir
(TDA4554) or pin 11-IC7126 (TI
Set 2202 so that the colour of
practically still.
Remove the interconnection.

4.4 NTSC chroma auxiliary osc modules with TDA4554
Connect a pattern generator ar
M colour bar pattern. Connect
earth. Set 2202 so that the col
is practically still.
Remove the interconnection.

3. Setting 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. Settings on the PIP module

Setting conditions
Before making each setting, 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. Setting 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. Setting 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

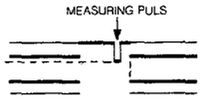
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set 5155 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

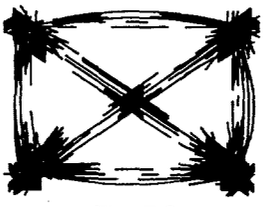


Fig. 7.2

MDA.01468
T28/826

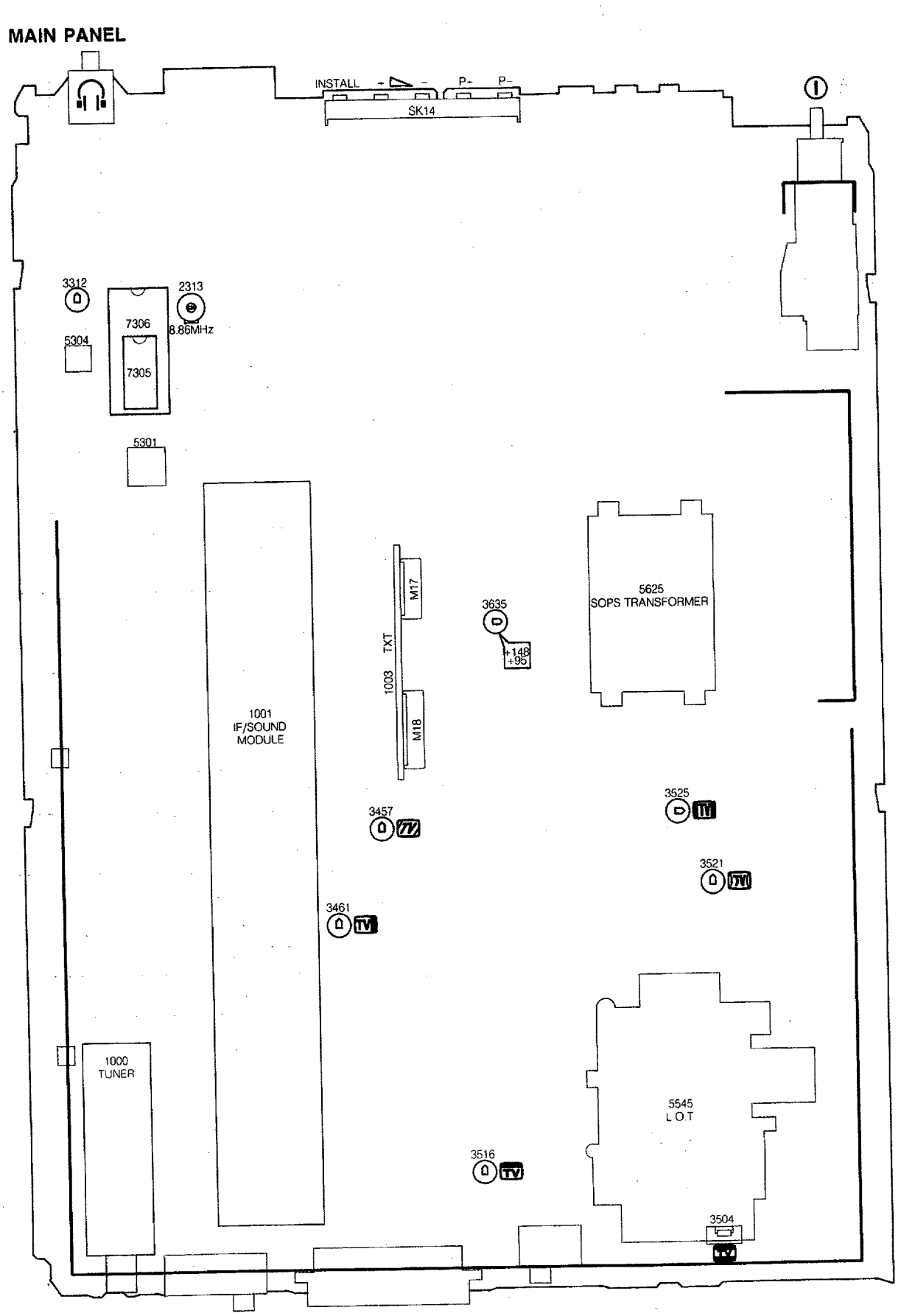
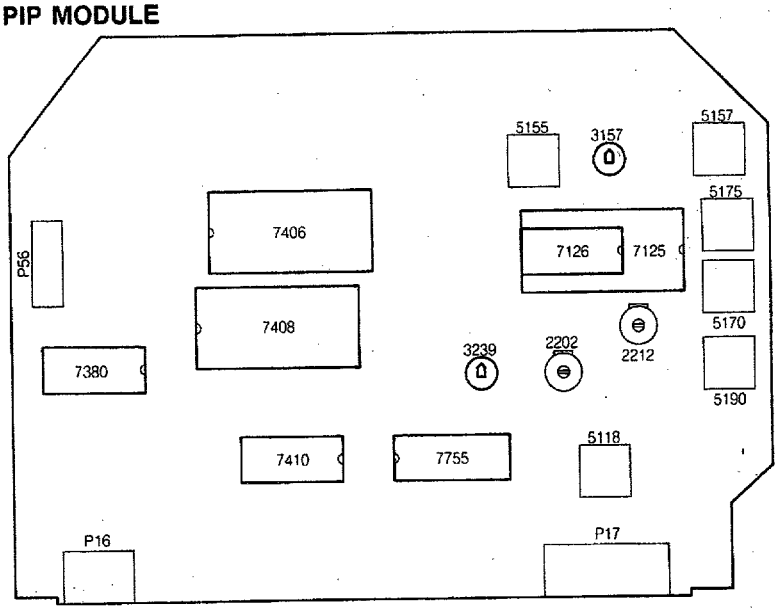
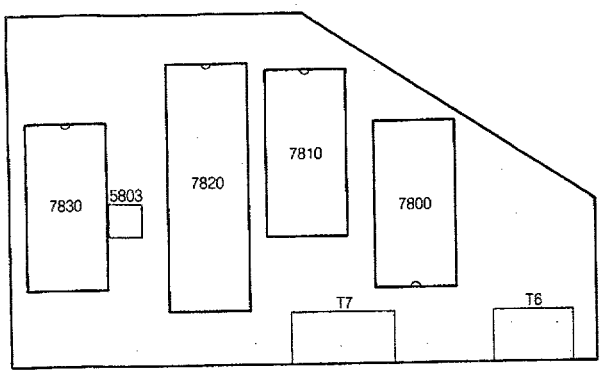

MAIN PANEL
INSTALL
SK14
3312
2313
7306
8.86MHz
5304
7305
5301
1001
IF/SOUND
MODULE
1003
TXT
M17
M18
3635
+148
+95
5625
SOPS TRANSFORMER
3457
3525
3521
3461
1000
TUNER
5545
L.O.T
3516
3504

Fig. 7.3

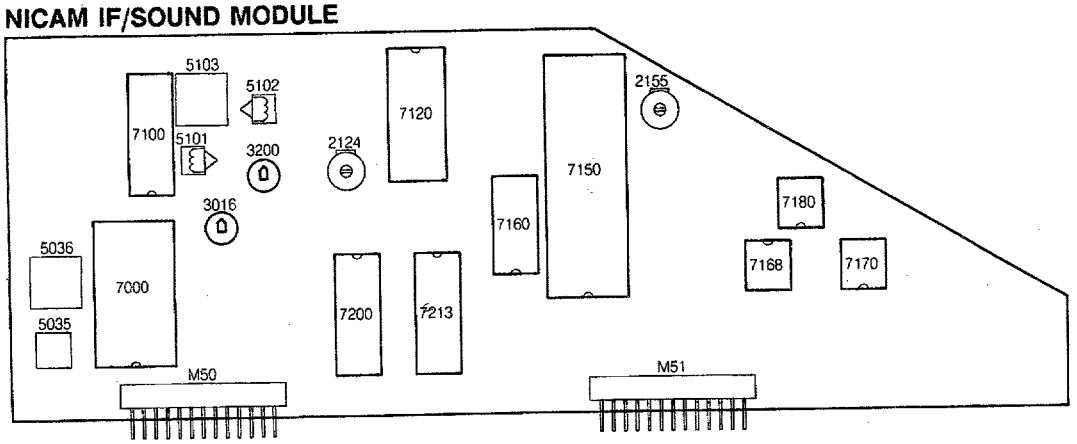
PIP MODULE



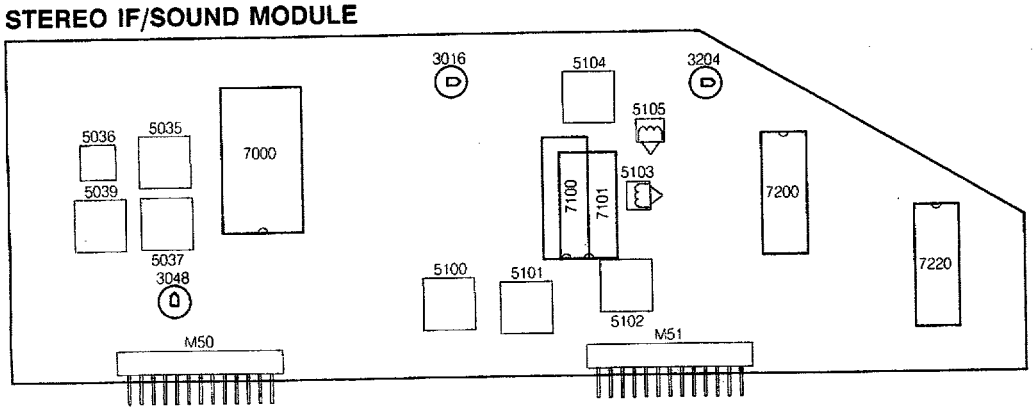
TXT MODULE



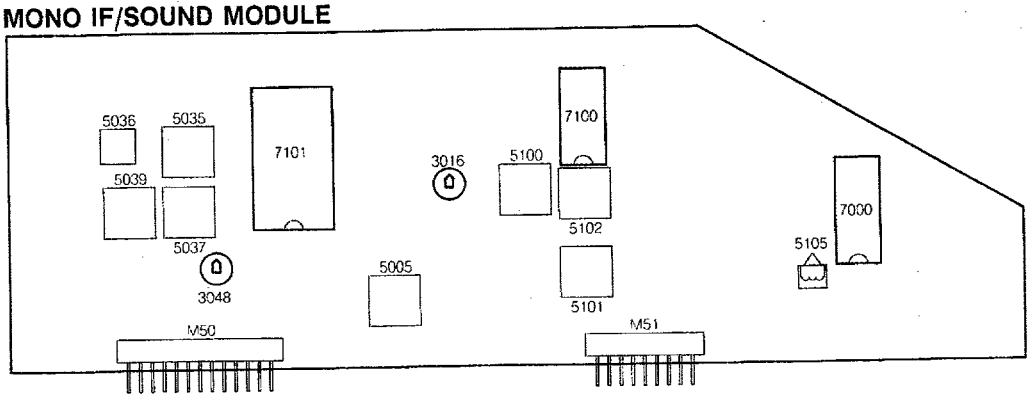
NICAM IF/SOUND MODULE



STEREO IF/SOUND MODULE



MONO IF/SOUND MODULE



MDA 02965
T28/107

Fig. 7.3

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).

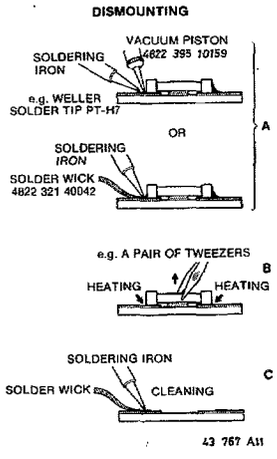


Fig. 8.1

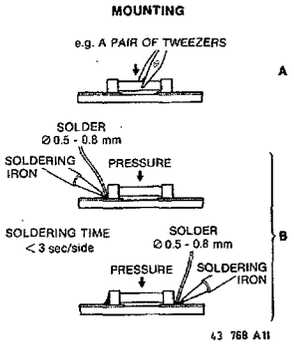


Fig. 8.2

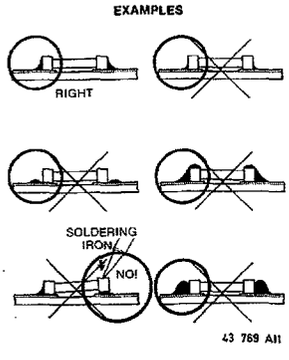


Fig. 8.3

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 fault messages

Fault indication	Description	Possible fault
OSD: ER PIP	I²C fault PIP module	* +5 on PIP module * IC7406
OSD: ER TXT	I²C fault TXT module	* +5 on teletext module * IC7800
OSD: ER NICAM	I²C fault IC7160 (NICAM units)	* +5 on MF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ER 8415	I²C fault IC7200 (stereo and NICAM units)	* +14 on MF/sound module * IC7200 * IC7220
OSD: ER 8425	I²C fault IC7213 (NICAM units) I²C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ER EEPROM	I²C fault IC7710	* ICC7710
OSD: ER TUNER	I²C fault tuner (stereo and NICAM units)	* Tuner * TS7003
OSD: ER CHROMA	I²C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in µP	* IC7708
OSD: ER BUS	I²C 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 "S" 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

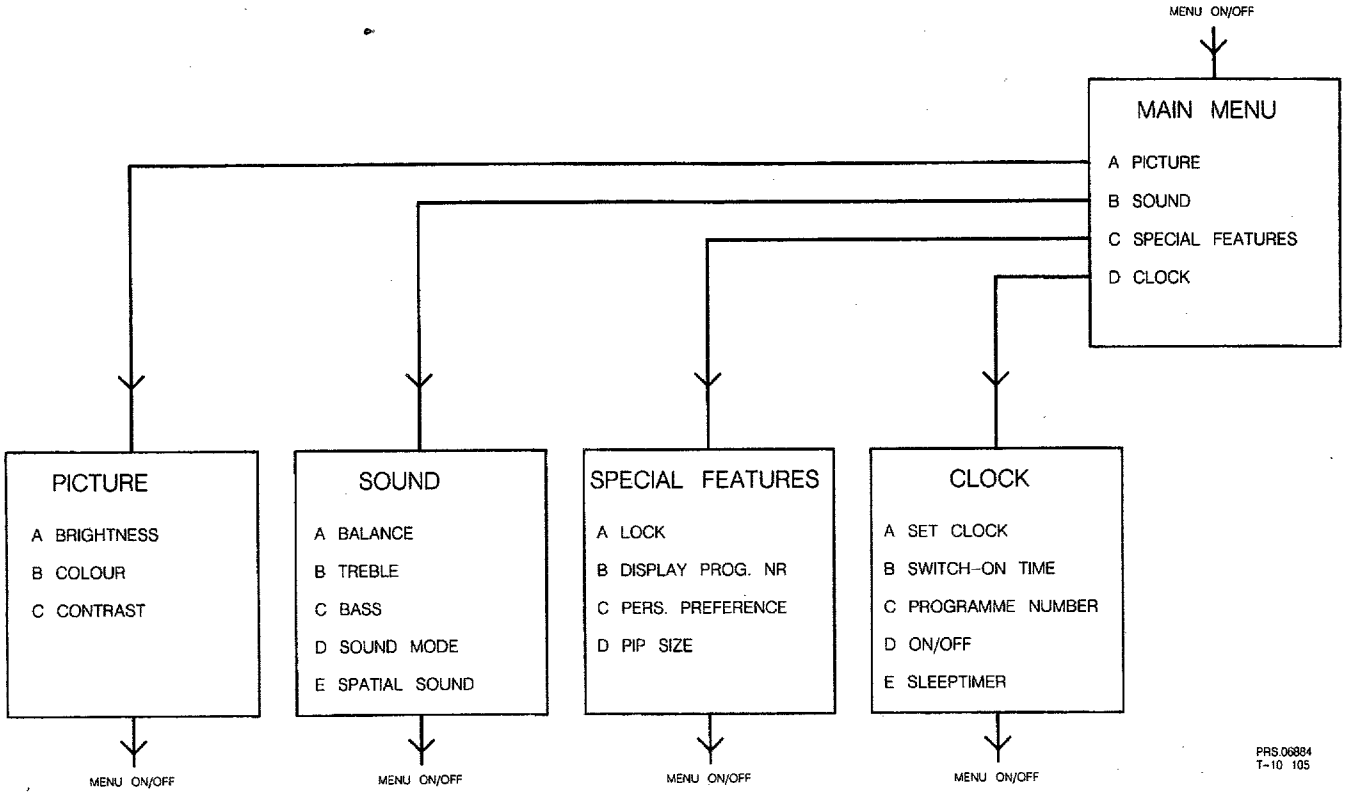
In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

2.1 Switching the hotel mode on and off

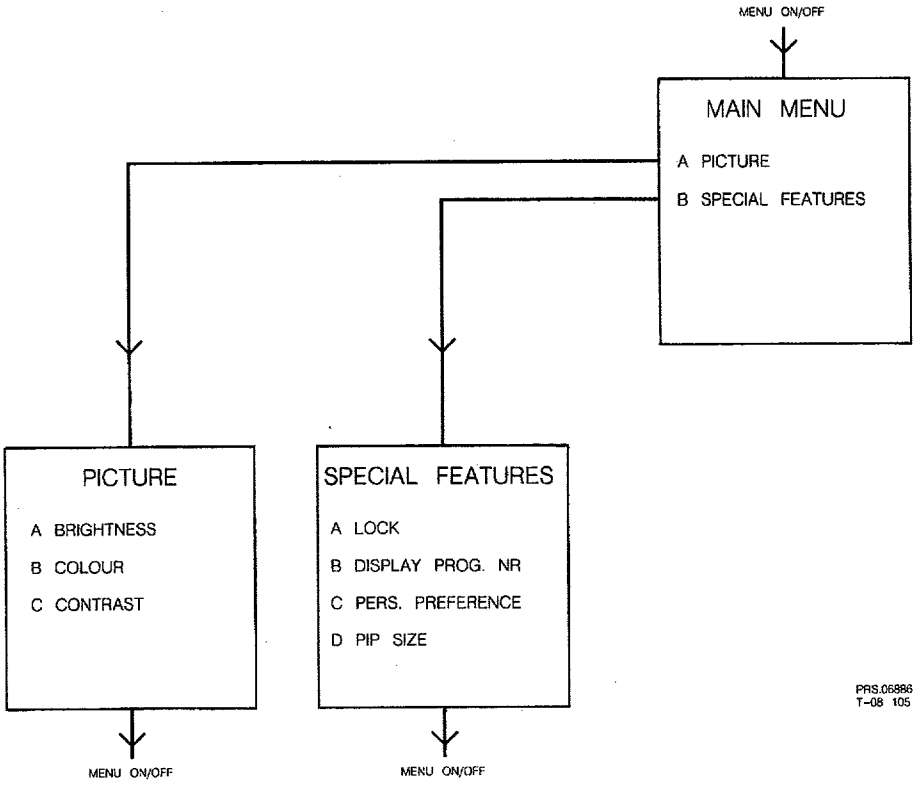
Select programme number 38.
First press ◿ + and keep this depressed while pressing P −.

Survey of menus

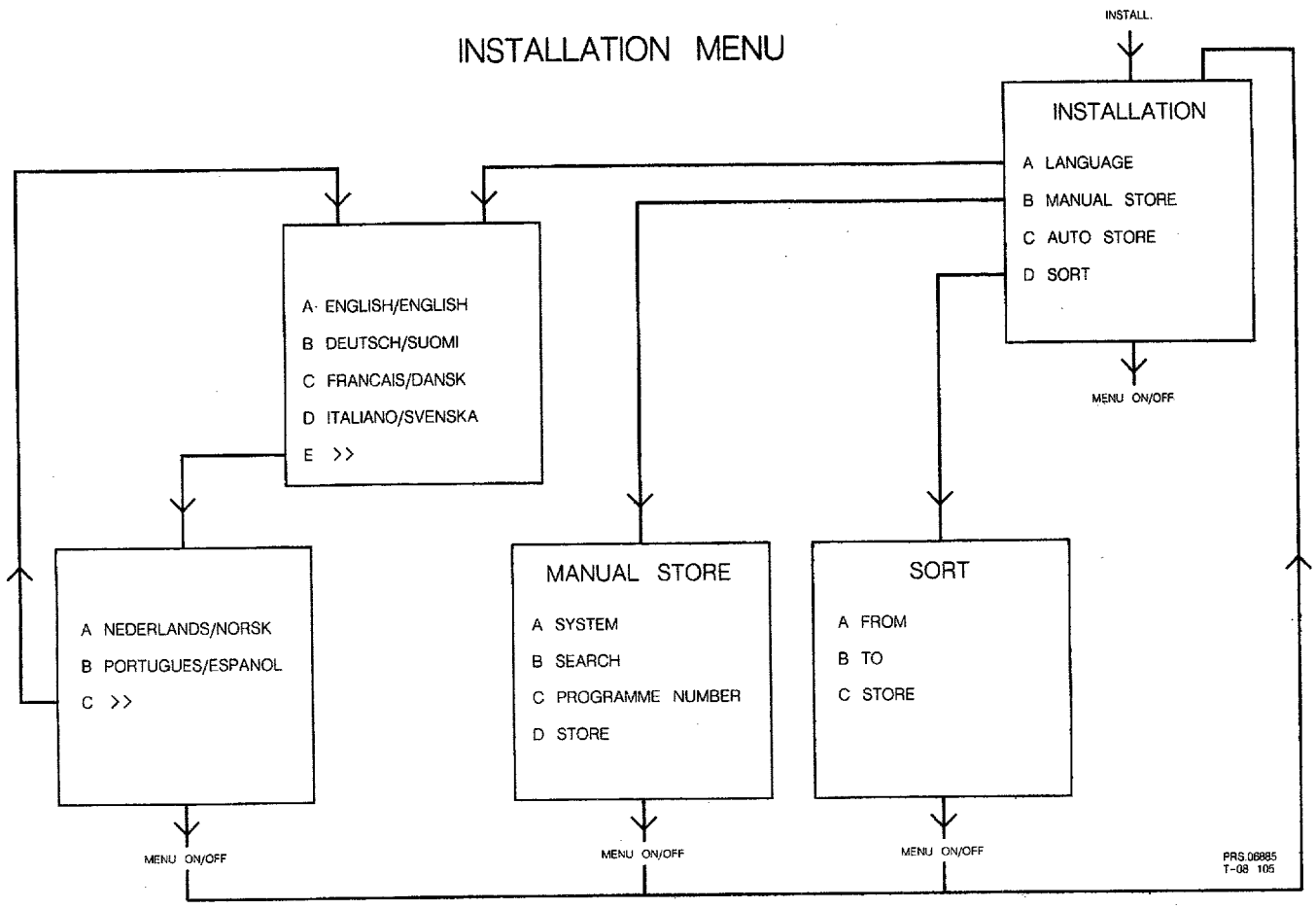
MAIN MENU STEREO



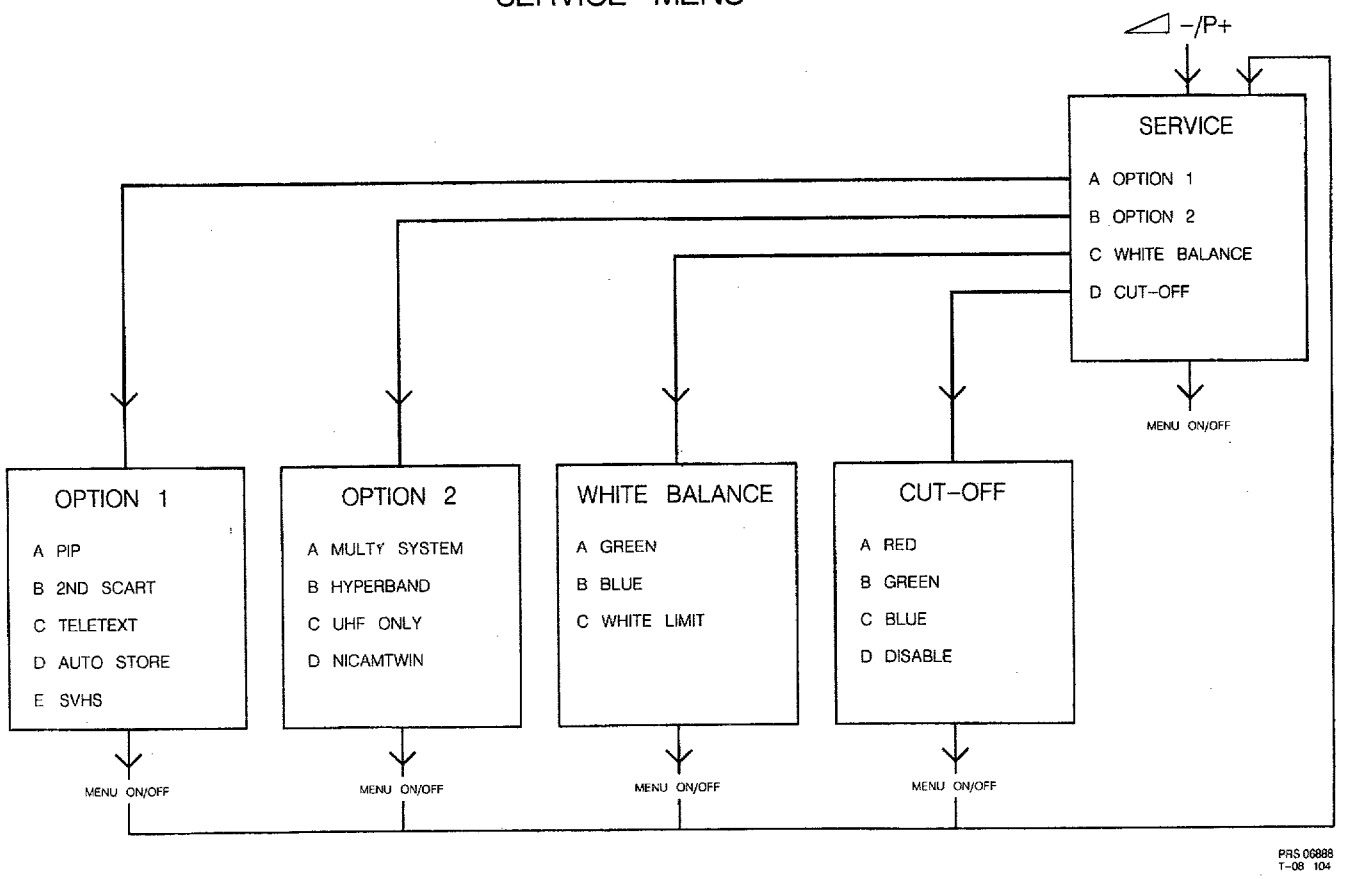
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Spare parts lists / Stückliste / Liste

Carrier panel

Mechanical parts

	4822 404 31174	bracket EURO MOD.
	4822 492 70871	spring (wire)
	4822 492 70143	spring fix. TS7625
	4822 256 91766	LED holder
	4822 276 50354	keyboard 5-fold
	4822 466 30395	shielding IC7708
	4822 256 30274	fuse holder
	4822 320 20126	focus cable

⊣

10	4822 265 30389	2p male
11	4822 265 30389	2p male
12	4822 265 30351	5p male
13	4822 265 30378	4p male
14	4822 290 40295	7p male
15	4822 265 40421	6p male
16	4822 264 40207	3p male
17	4822 267 50591	6p male gold
18	4822 264 50148	8p male gold
19	4822 264 40239	3p male
22	4822 267 40666	3p male
23	4822 264 40207	3p male
24	4822 264 40207	3p male
27	4822 265 30351	5p male
28	4822 265 30877	3p male
29	4822 265 41086	9p male,
35	4822 267 20387	SVHS-connector
39	4822 267 31014	headphone socket
47	4822 267 30631	dual cinch connector
49	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 10405	UV917E/IEC
1000	4822 212 23695	U943/IEC
1000	4822 210 50124	UV916E/IEC
1000	4822 210 10366	U944/IEC
1002	4822 526 10405	ferrite bead for D6640,D6641
1003	4822 212 23667	infra red receiver
1004	4822 526 10538	ferrite bead for D6546
1240	4822 071 51602	fuse T1,6A
1242	4822 071 51602	fuse T1,6A
1300	4822 242 70304	crystal 8,867 238 MHz
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
1702	4822 242 80238	crystal 4,194 MHz
1702	4822 242 80221	crystal 4,194 304 MHz

⊣⊢

2001	4822 124 40195	150µF 20% 16V
2002	5322 122 32838	82nF 10% 63V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31784	4,7nF 10% 50V
2003	4822 122 32893	100nF 80% 50V
2004	4822 122 33205	12pF 10% 63V
2008	4822 122 31765	100pF 5% 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 32893	100nF 80% 50V
2238	4822 122 32597	6,8nF 10% 63V
2238	4822 122 31784	4,7nF 10% 50V
2239	4822 122 32893	100nF 80% 50V
2240	4822 124 40214	1000µF 20% 25V
2241	4822 122 32893	100nF 80% 50V
2242	4822 124 40214	1000µF 20% 25V
2243	4822 122 32863	22nF 80% 50V
2245	4822 122 32863	22nF 80% 50V
2246	4822 124 41596	22µF 20% 50V
2246	4822 124 41506	47µF 20% 16V
2248	4822 124 40849	330µF 20% 16V
2249	4822 122 32863	22nF 80% 50V
2250	4822 121 42472	10nF 10% 50V
2251	4822 121 42472	10nF 10% 50V
2252	4822 121 51252	470nF 5% 63V
2254	4822 121 51252	470nF 5% 63V
2255	4822 121 51252	470nF 5% 63V
2256	4822 122 32142	270pF 5% 63V
2257	4822 122 32142	270pF 5% 63V
2260	4822 122 32566	3,9nF 10% 63V
2261	4822 122 32566	3,9nF 10% 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
2300	4822 122 32482	22pF 5% 63V
2301	4822 122 31773	560pF 5% 50V
2303	4822 122 32142	270pF 5% 63V
2304	4822 122 33498	2,7nF 10% 63V
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 32504	15pF 5% 50V
2315	4822 122 33205	12pF 10% 63V
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 32444	33pF 5% 50V
2320	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	4822 051 10008	0Ω 5% 0,25W
2326	4822 122 33496	100nF 10% 63V
2327	4822 122 32442	10nF 50V
2328	4822 121 41856	22nF 5% 250V
2328	4822 121 42408	220nF 5% 63V
2329	4822 121 42408	220nF 5% 63V
2329	4822 121 41856	22nF 5% 250V
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
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 40435	10µF 20% 50V
2367	4822 124 41596	22µF 20% 50V
2368	4822 122 33205	12pF 10% 63V
2368	4822 122 32504	15pF 5% 50V
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	4822 051 10008	0Ω 5% 0,25W
2385	4822 122 31765	100pF 5% 50V
2451	4822 122 32442	10nF 50V
2451	4822 122 33496	100nF 10% 63V
2456	4822 124 40242	1µF 20% 63V
2457	4822 122 33496	100nF 10% 63V
2458	4822 121 42937	2,7nF 1% 250V
2459	4822 122 33496	100nF 10% 63V
2460	5322 122 31647	1nF 10% 63V
2460	4822 122 31784	4,7nF 10% 50V
2460	4822 122 32442	10nF 50V
2461	5322 122 31647	1nF 10% 63V
2464	4822 122 33496	100nF 10% 63V
2465	4822 124 40849	330µF 20% 16V
2466	4822 124 41577	4,7µF 20% 50V
2467	4822 122 33496	100nF 10% 63V
2468	4822 124 40242	1µF 20% 63V
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	4822 122 31727	470pF 5% 63V
2502	4822 124 41596	22µF 20% 50V
2505	4822 122 32542	47nF 10% 63V
2506	4822 124 41747	680µF 20%
2506	4822 124 41334	470µF 20% 35V

Carrier panel (continued)

2507	4822 122 31797	22nF 10% 63V
2509	4822 124 41576	2,2µF 20% 50V
2520	5322 124 41299	68µF 20% 25V
2521	4822 122 32891	68nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2524	4822 124 21208	4,7µF 20% 50V
2524	4822 124 42167	4,7µF 20% 50V
2526	4822 121 42472	10nF 10% 50V
2526	4822 122 31759	18nF 10%
2528	5322 121 42025	0,22µF 10% 250V
2531	4822 121 43396	120nF 5% 63V
2531	4822 121 42408	220nF 5% 63V
2532	4822 124 40242	1µF 20% 63V
2532	4822 124 41577	4,7µF 20% 50V
2533	4822 124 40242	1µF 20% 63V
2538	4822 121 51256	39nF 10% 50V
2539	4822 124 41525	100µF 20% 25V
2545	4822 126 10202	1,5nF 10% 2kV
2545	4822 122 33707	1,2nF 10% 2kV
2546	5322 121 42523	8,2nF 5% 2kV
2546	5322 121 41603	10nF 5% 2kV
2546	4822 121 43065	7,5nF 5% 2kV
2547	4822 121 40488	22nF 10% 400V
2547	5322 121 44151	33nF 10% 400V
2549	4822 121 42073	390 nF 10% 400V
2549	4822 121 42074	470 nF 10% 400V
2550	4822 121 51527	390nF 5% 250V
2550	4822 121 43148	470nF 10% 2000V
2551	4822 124 41831	1µF 20% 160V
2559	4822 124 41525	100µF 20% 25V
2560	4822 121 51408	33nF 10% 250V
2563	4822 122 10175	2,2nF 10% 50V
2570	4822 124 40764	22µF 100 V
2574	4822 122 10175	2,2nF 10% 50V
2580	4822 124 40214	1000µF 20% 25V
2585	4822 124 40435	10µF 20% 50V
2588	4822 122 31644	2,2nF 10% 63V
2590	5322 121 42498	680nF 5% 63V
2590	5322 121 42498	680nF 5% 63V
2600	4822 124 41531	470nF 10% 250VAC
2605	4822 124 23492	220µF 50% 385V
2605	4822 124 42104	68µF 20% 385V
2607	4822 122 33922	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	4822 124 22349	100µF 160V
2631	4822 124 22349	100µF 160V
2631	4822 124 23418	47µF 200V
2632	4822 126 11382	1nF 10% 1kV
2636	4822 122 31644	2,2nF 10% 63V
2640	4822 124 40214	1000µF 20% 25V
2641	4822 124 40214	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 40201	1000µF 20% 16V
2661	4822 124 41506	47µF 20% 16V
2662	4822 122 30107	270pF 2% 100V
2662	5322 122 32056	220pF 2% 100V
2663	5322 122 32344	82pF 2% 100V
2663	4822 122 31081	100pF 2% 100V
2664	4822 124 41576	2,2µF 20% 50V
2670	4822 122 31766	120pF 5% 50V
2671	4822 121 42408	220nF 5% 63V
2675	5322 124 41468	1000µF 20% 40V
2675	4822 124 21215	680µF 20% 40V
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
2707	4822 124 40242	1µF 20% 63V
2708	4822 122 31766	120pF 5% 50V
2709	4822 122 32083	8,2pF 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	4822 124 40242	1µF 20% 63V
2719	5322 121 42386	100nF 5% 63V
2721	4822 122 32442	10nF 50V
2722	4822 121 42007	100nF 10% 100V
2722	4822 122 32893	100nF 80% 50V
2781	4822 122 33496	100nF 10% 63V
2800	4822 124 41506	47µF 20% 16V
2805	4822 122 31772	47pF 5% 50V
2810	4822 122 31784	4,7nF 10% 50V
2875	4822 122 32893	100nF 80% 50V

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
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 116 52204	1k 5% 0,5W
3222	4822 116 52234	100k 5% 0,5W
3224	4822 116 52256	2k2 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	4822 051 10008	0Ω 5% 0,25W
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	4822 051 10562	5k6 2% 0,25W
3236	4822 051 10122	1k2 2% 0,25W
3237	4822 051 10562	5k6 2% 0,25W
3237	4822 051 10122	1k2 2% 0,25W
3238	4822 051 10122	1k2 2% 0,25W
3239	4822 116 52207	1k2 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 52193	39Ω 5% 0,5W
3249	4822 116 52175	100Ω 5% 0,5W
3250	4822 116 52204	1k 5% 0,5W
3251	4822 116 52204	1k 5% 0,5W
3253	4822 116 52211	150Ω 5% 0,5W
3254	4822 116 52211	150Ω 5% 0,5W
3255	4822 116 52204	1k 5% 0,5W
3256	4822 116 52204	1k 5% 0,5W
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	4822 051 10008	0Ω 5% 0,25W
3263	4822 051 10562	5k6 2% 0,25W
3264	4822 051 10008	0Ω 5% 0,25W
3264	4822 051 10562	5k6 2% 0,25W
3265	4822 050 21008	1Ω 1% 0,6W
3266	4822 050 21008	1Ω 1% 0,6W
3300	4822 051 10562	5k6 2% 0,25W
3301	4822 051 10272	2k7 2% 0,25W
3302	4822 051 20222	2k2 5% 0,1W
3303	4822 051 10332	3k3 2% 0,25W
3303	4822 051 10122	1k2 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	4822 051 10681	680Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10331	330Ω 2% 0,25W
3310	4822 116 52286	5k1 5% 0,5W
3311	4822 051 10391	390Ω 2% 0,25W
3312	4822 100 11677	470Ω 30% lin 0,2W
3313	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
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	4822 052 10279	27Ω 5% 0,33W
3337	4822 052 10189	18Ω 5% 0,33W
3337	4822 052 10279	27Ω 5% 0,33W
3338	4822 116 52204	1k 5% 0,5W
3339	4822 051 10152	1k5 2% 0,25W
3340	4822 116 52204	1k 5% 0,5W
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 116 52204	1k 5% 0,5W
3351	4822 116 52263	2k7 5% 0,5W
3352	4822 116 52263	2k7 5% 0,5W
3353	4822 116 52263	2k7 5% 0,5W

Carrier panel (continued)

3354	4822 051 10221	220Ω 2% 0,25W
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
3365	4822 116 52301	75k 5% 0,5W
3366	4822 051 20183	18k 5% 0,1W
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 10332	3k3 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 26803	68k 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 100 11676	10k 30% lin 0,2W
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 100 11682	47k 30% lin 0,2W
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	4822 116 80692	2M2 5% 0,2W
3467	4822 050 21205	1M2 1% 0,6W
3468	4822 051 10682	6k8 2% 0,25W
3469	4822 051 10229	22Ω 2% 0,25W
3470	4822 116 52269	3k3 5% 0,5W
3471	4822 050 19109	91Ω 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	4822 051 10759	75Ω 2% 0,25W
3501	4822 051 10101	100Ω 2% 0,25W
3502	4822 050 28201	820Ω 1% 0,6W
3503	4822 052 10108	1Ω 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	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 10392	3k9 2% 0,25W
3515	4822 051 10228	2Ω2 5% 0,25W
3516	4822 100 11678	22k 30% lin 0,2W
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 100 11679	4,7k 30% lin 0,2W
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	4822 100 11678	22k 30% lin 0,2W
3525	4822 100 11676	10k 30% lin 0,2W
3526	4822 051 10823	82k 2% 0,25W
3526	4822 051 10104	100k 2% 0,25W
3527	4822 051 10125	1M2 5% 0,25W
3527	4822 051 10333	33k 2% 0,25W
3528	4822 051 20222	2k2 5% 0,1W
3528	4822 051 10681	680Ω 2% 0,25W
3529	4822 051 10228	2Ω2 5% 0,25W
3530	4822 051 10102	1k 2% 0,25W
3530	4822 051 10008	0Ω 5% 0,25W
3531	4822 051 10104	100k 2% 0,25W
3531	4822 051 10008	0Ω 5% 0,25W
3532	4822 051 10103	10k 2% 0,25W
3532	4822 051 10153	15k 2% 0,25W
3533	4822 051 10822	8k2 2% 0,25W
3534	4822 052 10828	8Ω2 5% 0,33W
3535	4822 116 52231	820Ω 5% 0,5W
3535	4822 116 52243	1k5 5% 0,5W
3536	4822 051 10822	8k2 2% 0,25W
3538	4822 116 52251	18k 5% 0,5W
3539	4822 053 20684	680k 5% 0,25W
3539	4822 053 20434	430k 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 116 52256	2k2 5% 0,5W
3545	4822 111 70178	120Ω 5% 5W
3545	4822 116 82999	330Ω 5% 5W
3546	4822 050 15608	5Ω6 1% 0,4W
3549	4822 116 52251	18k 5% 0,5W
3550	4822 052 10153	15k 5% 0,33W
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	4822 116 52254	20k 5% 0,5W
3560	4822 116 52247	16k 5% 0,5W
3560	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
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	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	4822 053 11479	47Ω 5% 2W
3624	4822 116 52272	330k 5% 0,5W
3625	4822 116 52292	560k 5% 0,5W
3626	4822 053 12361	360Ω 5% 3W
3626	4822 113 80565	180Ω 5% 5W
3627	4822 053 12361	360Ω 5% 3W
3628	4822 051 10334	330k 2% 0,25W
3629	4822 051 10682	6k8 2% 0,25W
3631	4822 050 22204	220k 1% 0,6W
3631	4822 050 21204	120k 1% 0,6W
3634	4822 116 52269	3k3 5% 0,5W
3634	4822 116 52263	2k7 5% 0,5W
3635	4822 100 11681	1k 30% 0,1W
3636	4822 051 10224	220k 2% 0,25W
3637	4822 051 10101	100Ω 2% 0,25W
3647	4822 050 23603	36k 1% 0,6W
3647	4822 050 23303	33k 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 10472	4k7 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 116 52204	1k 5% 0,5W
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
3701	4822 051 10273	27k 2% 0,25W
3702	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
3707	4822 051 10223	22k 2% 0,25W
3708	4822 051 10334	330k 2% 0,25W
3710	4822 051 10008	0Ω 5% 0,25W
3710	4822 051 10243	24k 2% 0,25W
3711	4822 116 52244	15k 5% 0,5W
3711	4822 116 80176	1Ω 5% 0,5W
3712	4822 051 10223	22k 2% 0,25W
3712	4822 051 10008	0Ω 5% 0,25W
3713	4822 051 10223	22k 2% 0,25W
3713	4822 051 10008	0Ω 5% 0,25W
3714	4822 051 10155	1M5 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	4822 053 11332	3k3 5% 2W
3733	4822 116 52283	4k7 5% 0,5W
3733	4822 050 23902	3k9 1% 0,6W
3734	4822 116 52283	4k7 5% 0,5W
3734	4822 050 23902	3k9 1% 0,6W
3735	4822 051 10104	100k 2% 0,25W
3736	4822 116 52175	100Ω 5% 0,5W
3737	4822 116 52284	47k 5% 0,5W
3737	4822 116 52204	1k 5% 0,5W
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

Carrier panel (continued)

3754	4822 051 10153	15k 2% 0,25W
3755	4822 051 10008	0Ω 5% 0,25W
3755	4822 051 10101	100Ω 2% 0,25W
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 116 52235	1M 5% 0,5W
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
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 10103	10k 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
3880	4822 116 52204	1k 5% 0,5W
3881	4822 116 52224	470Ω 5% 0,5W
3882	4822 116 52224	470Ω 5% 0,5W
3883	4822 051 10104	100k 2% 0,25W
3884	4822 050 21004	100k 1% 0,6W
3885	4822 051 10223	22k 2% 0,25W
3886	4822 051 10472	4k7 2% 0,25W
3887	4822 116 52289	5k6 5% 0,5W
3888	4822 116 52207	1k2 5% 0,5W
3890	4822 051 10103	10k 2% 0,25W
4221	4822 051 10008	0Ω 5% 0,25W
4222	4822 051 10008	0Ω 5% 0,25W
4223	4822 051 10008	0Ω 5% 0,25W
4224	4822 051 10008	0Ω 5% 0,25W
4233	4822 051 10008	0Ω 5% 0,25W
4237	4822 051 10008	0Ω 5% 0,25W
4239	4822 051 10008	0Ω 5% 0,25W
4300	4822 051 10008	0Ω 5% 0,25W
4301	4822 051 10008	0Ω 5% 0,25W
4302	4822 051 10008	0Ω 5% 0,25W
4303	4822 051 10008	0Ω 5% 0,25W
4304	4822 051 10008	0Ω 5% 0,25W
4305	4822 051 10008	0Ω 5% 0,25W
4306	4822 051 10008	0Ω 5% 0,25W
4307	4822 051 10008	0Ω 5% 0,25W
4308	4822 051 10008	0Ω 5% 0,25W
4310	4822 051 10008	0Ω 5% 0,25W
4312	4822 051 10008	0Ω 5% 0,25W
4314	4822 051 10008	0Ω 5% 0,25W
4315	4822 051 10008	0Ω 5% 0,25W
4316	4822 051 10008	0Ω 5% 0,25W
4317	4822 051 10008	0Ω 5% 0,25W
4318	4822 051 10008	0Ω 5% 0,25W
4319	4822 051 10152	1k5 2% 0,25W
4320	4822 051 10008	0Ω 5% 0,25W

4321	4822 051 10008	0Ω 5% 0,25W
4322	4822 051 10008	0Ω 5% 0,25W
4323	4822 051 10008	0Ω 5% 0,25W
4324	4822 051 10008	0Ω 5% 0,25W
4325	4822 051 10008	0Ω 5% 0,25W
4326	4822 051 10008	0Ω 5% 0,25W
4329	4822 051 10008	0Ω 5% 0,25W
4450	4822 051 10008	0Ω 5% 0,25W
4451	4822 051 10008	0Ω 5% 0,25W
4452	4822 051 10008	0Ω 5% 0,25W
4500	4822 051 10008	0Ω 5% 0,25W
4501	4822 051 10008	0Ω 5% 0,25W
4502	4822 051 10008	0Ω 5% 0,25W
4503	4822 051 10008	0Ω 5% 0,25W
4504	4822 051 10008	0Ω 5% 0,25W
4505	4822 051 10008	0Ω 5% 0,25W
4506	4822 051 10008	0Ω 5% 0,25W
4507	4822 051 10008	0Ω 5% 0,25W
4602	4822 051 10008	0Ω 5% 0,25W
4603	4822 051 10008	0Ω 5% 0,25W
4604	4822 051 10008	0Ω 5% 0,25W
4605	4822 051 10008	0Ω 5% 0,25W
4700	4822 051 10008	0Ω 5% 0,25W
4701	4822 051 10008	0Ω 5% 0,25W
4704	4822 051 10008	0Ω 5% 0,25W
4706	4822 051 10008	0Ω 5% 0,25W
4707	4822 051 10008	0Ω 5% 0,25W
4708	4822 051 10008	0Ω 5% 0,25W
4709	4822 051 10008	0Ω 5% 0,25W
4710	4822 051 10008	0Ω 5% 0,25W
4711	4822 051 10008	0Ω 5% 0,25W
4712	4822 051 10008	0Ω 5% 0,25W
4713	4822 051 10008	0Ω 5% 0,25W
4714	4822 051 10008	0Ω 5% 0,25W
4715	4822 051 10008	0Ω 5% 0,25W
4716	4822 051 10008	0Ω 5% 0,25W
4718	4822 051 10008	0Ω 5% 0,25W
4720	4822 051 10008	0Ω 5% 0,25W
4721	4822 051 10008	0Ω 5% 0,25W
4723	4822 051 10008	0Ω 5% 0,25W
4850	4822 051 10008	0Ω 5% 0,25W
4851	4822 051 10008	0Ω 5% 0,25W
4852	4822 051 10008	0Ω 5% 0,25W
4853	4822 051 10008	0Ω 5% 0,25W
4854	4822 051 10008	0Ω 5% 0,25W
4855	4822 051 10008	0Ω 5% 0,25W
4856	4822 051 10008	0Ω 5% 0,25W
4857	4822 051 10008	0Ω 5% 0,25W
4858	4822 051 10008	0Ω 5% 0,25W
4859	4822 051 10008	0Ω 5% 0,25W
4862	4822 051 10008	0Ω 5% 0,25W
4863	4822 051 10008	0Ω 5% 0,25W
4865	4822 051 10008	0Ω 5% 0,25W
4866	4822 051 10008	0Ω 5% 0,25W
4867	4822 051 10008	0Ω 5% 0,25W

5240	4822 158 10551	27µH
5242	4822 158 10551	27µH
5301	4822 157 63075	7,95µH 8%
5303	4822 157 53906	47µH
5303	5322 157 51687	39µH 10%
5304	4822 157 63074	7,6µH
5306	4822 320 40081	470 NSEC
5530	4822 152 20559	390µH 10%
5534	4822 158 10728	coil 25"/28"
5534	4822 157 62771	coil 21"
5541	4822 157 63078	line driver
5545	4822 140 10417	L.O.T. 25"/28" non BL.L.
5545	4822 140 10414	L.O.T. 25"/28" BL.L.
5545	4822 140 10418	L.O.T. 21"

5549	4822 157 53069	coil balance
5554	4822 157 63079	AT4042/97 25"/28"
5554	4822 157 63161	AT4042/90G 21"
5582	5322 157 52539	15µH
5588	4822 157 52505	33µH 10%
5605	4822 157 53995	100µH 10%
5606	4822 157 53995	100µH 10%
5619	4822 156 21125	3,9µH 10% 25"/28"
5619	4822 157 51235	4µH 7 10% 21"
5621	4822 157 60412	150µH 10% 25"/28"
5621	4822 157 53903	180µH 10% 21"
5625	4822 148 81159	S.O.P.S. trafo 21"
5625	4822 148 81168	S.O.P.S. trafo 25"/28"
5630	4822 157 60387	1µH
5631	4822 158 10551	27µH
5632	4822 158 10551	27µH
5661	4822 152 20678	33µH 10%
5701	4822 157 52843	56µH 5%
5703	4822 157 52279	33µH 10%
5801	4822 157 53001	27µH 10%

6245	4822 130 30621	1N4148
6246	4822 130 81139	LLZ-C3V3
6247	4822 130 81139	LLZ-C3V3
6248	4822 130 80446	LL4148
6249	4822 130 80446	LL4148
6300	4822 130 80446	LL4148
6302	4822 130 34382	BZX79-C8V2
6303	4822 130 34382	BZX79-C8V2
6310	4822 130 80954	LLZ-C5V6
6315	4822 130 80446	LL4148
6316	4822 130 30621	1N4148
6317	4822 130 30621	1N4148
6318	4822 130 80446	LL4148
6367	4822 130 80884	LLZ-C5V1
6464	4822 130 81015	LLZ-C10
6465	4822 130 61219	BZX79-F10
6465	4822 130 80239	BZX79-F8V2
6465	4822 130 34281	BZX79-F15
6503	4822 130 42489	BYD33G
6504	4822 130 80446	LL4148
6518	4822 130 80446	LL4148
6519	4822 130 80446	LL4148
6546	4822 130 41275	BY228/20
6547	4822 130 41602	BYW95C/20
6548	4822 130 30621	1N4148
6549	4822 130 42488	BYD33D
6551	4822 130 42489	BYD33G
6560	4822 130 80446	LL4148
6561	4822 130 34383	BZX79-C47
6563	4822 130 80915	BYD74C
6570	4822 130 42488	BYD33D
6571	4822 130 42488	BYD33D
6580	4822 130 82512	BYV29F-400
6580	4822 130 32961	BYV28-200
6585	4822 130 42488	BYD33D
6590	4822 130 81141	LLZ-C43
6591	4822 130 30621	1N4148
6592	4822 130 80928	BZX79-C30
6610	4822 130 80446	LL4148
6611	4822 130 34268	LLZ-F16
6612	4822 130 30621	1N4148
6617	4822 130 31456	BZV85-C5V1
6621	4822 130 42488	BYD33D
6622	4822 130 30621	1N4148
6630	4822 130 33531	BY229F-600
6630	4822 130 81175	BYD74G
6640	4822 130 80914	BYD74B
6641	4822 130 80914	BYD74B
6646	4822 130 42488	BYD33D

Carrier panel (continued)

6648	4822 130 34488	BZX79-F12
6648	4822 130 61219	BZX79-F10
6649	4822 130 30621	1N4148
6660	4822 130 30621	1N4148
6661	4822 130 42488	BYD33D
6662	4822 130 80905	LLZ-F5V1
6663	4822 130 34281	BZX79-F15
6664	4822 130 61219	BZX79-F10
6664	4822 130 30862	BZX79-F9V1
6665	4822 130 80883	LLZ-C4V7
6666	4822 130 80887	LLZ-C36
6666	4822 130 81141	LLZ-C43
6669	4822 130 80446	LL4148
6670	4822 130 20245	SF0Ω5D43
6675	4822 130 80914	BYD74B
6675	4822 130 42488	BYD33D
6705	4822 130 80905	LLZ-F5V1
6707	4822 209 72895	TLUV5320
6708	4822 130 81145	LLZ-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	4822 209 73253	TDA2613/N1
7240	4822 209 73853	TDA1521/N4
7243	5322 130 42012	BC858
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	BC858
7303	4822 130 61207	BC848
7305	4822 209 70019	TDA4510/V2/S8
7306	4822 209 63109	TDA4650/V3
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	4053B
7312	5322 209 10576	4053B
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	BC858
7470	4822 209 63297	TDA2579B/N1
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	BC858
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 62677	BUT11AF/1
7591	5322 130 42012	BC858
7600	4822 209 63735	TDA8385/N2
7614	4822 209 63732	CNR50
7625	4822 130 43919	BUT12AF
7661	5322 130 44921	BD943
7663	4822 130 42513	BC858C
7671	4822 130 61207	BC848

7672	4822 130 61207	BC848
7701	5322 130 42012	BC858A
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	4822 209 63872	TMP47C1237N-U105 GR2VSL1
7708	4822 209 63947	TMP47C1237N-U107 GR2VSL2
7708	4822 209 63861	TMP47C1637N-U208 GR2FSL2
7708	4822 209 63875	TMP47C1637N-U211 GR2FSL1
7709	4822 130 61207	BC848
7710	4822 209 62098	ST24C02CP
7711	4822 130 61207	BC848
7712	4822 130 61207	BC848
7805	4822 130 61207	BC848
7810	4822 130 61207	BC848

Mains module

	4822 212 23664	mains mod.
10	4822 265 30389	2P MALE
32	4822 265 30389	2P MALE
33	4822 265 30877	3P MALE

2601	4822 121 40487	100n 400V

3601	4822 116 40211	PTC/NTC
3607	4822 050 23901	390Ω

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

CRT modules

	4822 212 23675	CRT MOD. 25"/28" BL.L.
	4822 212 23676	CRT MOD. 25"/28" NON BL.L.
	4822 212 23678	CRT MOD. 21"

19	4822 265 30378	4P MALE
20	4822 290 40295	7P MALE
21	4822 255 70261	CRT SOCKET 25"/28"
21	4822 255 70251	CRT SOCKET 21"

2301	4822 122 31961	68pF 5% 63V
2301	4822 122 31825	27pF 10% 50V
2301	4822 122 32482	22pF 5% 63V
2331	4822 122 31774	56pF 5% 50V
2331	4822 122 31825	27pF 10% 50V
2331	4822 122 32482	22pF 5% 63V
2361	4822 122 31774	56pF 5% 50V
2361	4822 122 32482	22pF 5% 63V
2361	4822 122 31825	27pF 10% 50V
2391	4822 121 43878	27pF 2% 500V
2392	4822 124 40246	4,7µF 20% 63V
2392	4822 124 41577	4,7µF 20% 50V
2411	4822 124 40849	330µF 20% 16V
2412	4822 122 33496	100nF 10% 63V
2421	4822 122 31772	47pF 5% 50V
2431	4822 121 41689	100nF 10% 250V
2432	4822 124 41506	47µF 20% 16V
2433	5322 121 50885	33nF 5% 1kV
2434	5322 122 32334	220pF 10% 100V

3301	4822 051 10131	130Ω 2% 0,25W
3302	4822 051 10152	1k5 2% 0,25W
3302	4822 051 10162	1k6 2% 0,25W
3302	4822 051 10362	3k6 2% 0,25W
3303	4822 051 10272	2k7 2% 0,25W
3304	4822 116 52239	120k 5% 0,5W
3305	4822 116 52283	4k7 5% 0,5W
3306	4822 116 52283	4k7 5% 0,5W
3307	4822 116 52283	4k7 5% 0,5W
3308	4822 051 10479	47Ω 2% 0,25W
3308	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 10152	1k5 2% 0,25W
3332	4822 051 10162	1k6 2% 0,25W
3332	4822 051 10362	3k6 2% 0,25W
3333	4822 051 10272	2k7 2% 0,25W
3334	4822 116 52239	120k 5% 0,5W
3335	4822 116 52283	4k7 5% 0,5W
3336	4822 116 52283	4k7 5% 0,5W
3337	4822 116 52283	4k7 5% 0,5W
3339	4822 051 10479	47Ω 2% 0,25W
3339	4822 051 10118	1Ω1 5% 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	4822 051 10131	130Ω 2% 0,25W
3362	4822 051 10152	1k5 2% 0,25W
3362	4822 051 10162	1k6 2% 0,25W
3362	4822 051 10362	3k6 2% 0,25W
3363	4822 051 10272	2k7 2% 0,25W
3364	4822 116 52239	120k 5% 0,5W
3365	4822 116 52283	4k7 5% 0,5W
3366	4822 116 52283	4k7 5% 0,5W
3367	4822 116 52283	4k7 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 12103	10k 5% 3W
3371	4822 053 12153	15k 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	82k 1% 0,6W
3394	4822 051 10333	33k 2% 0,25W
3394	4822 116 52267	30k 5% 0,5W
3395	4822 051 10683	68k 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	4822 116 52243	1k5 5% 0,5W
3412	4822 116 52224	470Ω 5% 0,5W
3413	4822 116 52218	300Ω 5% 0,5W
3413	4822 051 10221	220Ω 2% 0,25W
3414	4822 051 10519	51Ω 2% 0,25W
3414	4822 051 10479	47Ω 2% 0,25W
3415	4822 116 52218	300Ω 5% 0,5W
3415	4822 051 10221	220Ω 2% 0,25W
3421	4822 051 10104	100k 2% 0,25W
3422	4822 051 10682	6k8 2% 0,25W
3422	4822 050 26802	6k8 1% 0,6W
3423	4822 051 10474	470k 2% 0,25W
3423	4822 116 52285	470k 5% 0,5W
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	1M8 1% 0,6W
4000	4822 051 10008	0Ω 5% 0,25W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W

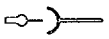
5401	4822 156 20915	33µH
5401	4822 158 10563	82µH 7,5%

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	LL4148

7301	4822 130 41773	BF869
7301	4822 130 41782	BF422
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7332	4822 130 41773	BF869
7332	4822 130 41782	BF422
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858A
7362	4822 130 41773	BF869
7362	4822 130 41782	BF422
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

Euro module

1006	4822 212 23666	EURO MODULE



23	4822 265 40442	10P MALE
26	4822 265 40442	10P MALE
30	4822 265 41086	9P MALE
32	4822 267 40666	3P MALE
48	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 32542	47nF 10% 63V
2814	4822 122 31759	18nF
2815	4822 122 33496	100nF 10% 63V
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 116 52204	1k 5% 0,5W
3805	4822 116 52204	1k 5% 0,5W
3806	4822 051 10334	330k 2% 0,25W
3807	4822 051 10334	330k 2% 0,25W
3808	4822 051 10334	330k 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 10331	330Ω 2% 0,25W
3821	4822 051 10331	330Ω 2% 0,25W
3822	4822 051 10331	330Ω 2% 0,25W
3823	4822 051 10561	560Ω 2% 0,25W
3824	4822 051 10151	150Ω 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 10562	5k6 2% 0,25W
3829	4822 051 10821	820Ω 2% 0,25W
3830	4822 051 10683	68k 2% 0,25W
3831	4822 051 10123	12k 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 10102	1k 2% 0,25W
3837	4822 052 10278	2Ω7 5% 0,33W
3838	4822 116 80747	75Ω 5% 0,125W
4851	4822 051 10008	0Ω 5% 0,25W
4852	4822 051 10008	0Ω 5% 0,25W
4854	4822 051 10008	0Ω 5% 0,25W
4855	4822 051 10008	0Ω 5% 0,25W
4856	4822 051 10008	0Ω 5% 0,25W
4858	4822 051 10008	0Ω 5% 0,25W

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	4053B
7802	5322 209 10576	4053B
7820	4822 130 61207	BC848
7821	5322 130 42136	BC848C
7822	5322 130 42012	BC858
7823	4822 130 61207	BC848
7824	4822 130 61207	BC848

Mono IF/sound module

	4822 212 23688	IF MOD. MULTI
	4822 212 23689	IF MOD. PAL/SECAM BG
	4822 212 23694	IF MOD. PAL I

various

1010	4822 242 72212	OFWG3950
1010	4822 242 72374	OFWG1961
1010	4822 242 70936	OFWJ1952
1042	4822 242 72211	TPS 5,5MHz
1043	4822 153 30025	6MHz
1102	4822 242 70714	SFT5,5MA
1103	4822 242 71841	SFT6,0MA

2011	4822 124 40435	10µF 20% 50V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	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
2019	4822 122 31784	4,7nF 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	100nF 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	5322 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	1500µF 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
2132	4822 122 31797	22nF 10% 63V

Mono IF/sound module (continued)

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	4822 126 11381	820pF 2%
2137	4822 122 31746	1000pF 5% 50V
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	4822 051 10104	100k 2% 0,25W
3015	4822 051 10473	47k 2% 0,25W
3016	4822 100 11163	100k 30% LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10223	22k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3022	4822 051 10151	150Ω 2% 0,25W
3022	4822 051 10008	0Ω 5% 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
3042	4822 051 10101	100Ω 2% 0,25W
3042	4822 051 10221	220Ω 2% 0,25W
3043	4822 116 52175	100Ω 5% 0,5W
3044	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 100 11683	2k 30% LIN 0,2W
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 10471	470Ω 2% 0,25W
3052	4822 051 10561	560Ω 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	4822 051 10102	1k 2% 0,25W
3080	4822 051 20222	2k2 5% 0,1W
3080	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
3112	4822 051 10472	4k7 2% 0,25W
3114	4822 051 10472	4k7 2% 0,25W
3114	4822 051 10182	1k8 2% 0,25W
3116	4822 116 52263	2k7 5% 0,5W
3117	4822 051 10104	100k 2% 0,25W
3118	4822 051 10472	4k7 2% 0,25W
3118	4822 051 20222	2k2 5% 0,1W
3119	4822 051 10472	4k7 2% 0,25W
3120	4822 051 10472	4k7 2% 0,25W
3121	4822 051 10104	100k 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	3k9 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
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W

5005	4822 157 53539	0,27µH 5%
5010	4822 157 63081	0,56µH 20%
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5037	4822 157 53537	1,35µH 5%
5038	4822 157 63076	1,2µH 5%
5039	4822 157 52983	22µH
5041	4822 157 52983	22µH
5041	4822 157 53001	27µH 10%
5042	4822 157 53634	5,6µH 10%
5042	4822 152 20677	10µH
5100	4822 157 53538	0,75µH 5%
5101	4822 157 53535	0,36µH 5%
5102	4822 157 53536	0,34µH 5%
5105	4822 157 52511	0,83µH

6005	4822 130 80888	BA682
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	BAS32L
6041	4822 130 80446	BAS32L
6042	4822 130 80446	BAS32L
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
6108	4822 130 80888	BA682
6112	4822 130 80884	LLZ-C5V1

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
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/V2
7101	4822 209 63217	TDA3827/V2
7102	4822 130 61207	BC848
7103	5322 130 42136	BC848C
7104	5322 130 41982	BC848B

Stereo IF/sound module

	4822 212 23663	IF MOD. MULTI
	4822 212 23687	IF MOD. NON MULTI

various

1010	4822 242 80205	OFWK3261
1010	4822 242 72554	OFWG3254
1042	4822 242 72211	TPS 5,5MW
1101	4822 242 70485	SFT5,74MA
1102	4822 242 71713	SFE6,0MBF
1103	4822 242 70714	SFT5,5MA
1200	4822 242 80208	10 MHz

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	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	4822 122 32083	8,2pF 5% 50V
2039	4822 051 10682	6k8 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 40435	10µF 20% 50V
2057	4822 122 31981	33nF 5% 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 41577	4,7µF 20% 50V
2123	4822 124 40242	1µF 20% 63V
2124	4822 124 41576	2,2µF 20% 50V
2125	4822 122 10527	910pF 2% NPO 50V
2126	4822 122 31784	4,7nF 10% 50V
2127	4822 126 11381	820pF 2% NPO
2127	4822 122 31746	1000pF 5% 50V
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
2204	4822 121 42408	220nF 5% 63V
2205	4822 122 32893	100nF 80% 50V
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 32893	100nF 80% 50V
2211	4822 124 40198	470µF 20% 16V
2212	4822 124 40435	10µF 20% 50V
2213	4822 122 31782	15000pF 10% 50V
2214	4822 122 31782	15000pF 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	4822 124 41577	4,7µF 20% 50V
2221	4822 124 41577	4,7µF 20% 50V
2222	4822 124 41643	100µF 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	4822 116 52234	100k 5% 0,5W
3016	4822 100 11163	100k 30% 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	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 10472	4k7 2% 0,25W
3040	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 116 90536	120Ω 1% 0,125W
3043	4822 116 52175	100Ω 5% 0,5W
3044	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 100 11683	2k 30% LIN 0,2W
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 10472	4k7 2% 0,25W
3065	4822 051 10124	120k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3070	4822 051 10822	8k2 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	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 20222	2k2 5% 0,1W
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 100 11676	10k 30% LIN 0,2W
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 116 52204	1k 5% 0,5W
3211	4822 051 10101	100Ω 2% 0,25W
3213	4822 116 52233	10k 5% 0,5W
3214	4822 051 10102	1k 2% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4040	4822 051 10008	0Ω 5% 0,25W
4041	4822 051 10008	0Ω 5% 0,25W
4042	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W
4101	4822 051 10008	0Ω 5% 0,25W
4102	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4104	4822 051 10008	0Ω 5% 0,25W
4105	4822 051 10008	0Ω 5% 0,25W
4107	4822 051 10008	0Ω 5% 0,25W
4108	4822 051 10008	0Ω 5% 0,25W
4201	4822 051 10008	0Ω 5% 0,25W
4204	4822 051 10008	0Ω 5% 0,25W
4205	4822 051 10008	0Ω 5% 0,25W

5010	4822 157 63081	0,56µH 20%
5010	4822 157 53302	1µH 20%
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5037	4822 157 53537	1,35µH 5%
5038	4822 157 63076	1,2µH 5%
5039	4822 152 20678	33µH 10%
5042	4822 157 62767	8,2µH 10%
5042	4822 157 53634	5,6µH 10%
5100	4822 157 53538	0,75µH 5%
5101	4822 157 53535	0,36µH 5%
5102	4822 157 53536	0,34µH 5%

Stereo IF/sound module (cont.)

5103	4822 157 52511	0,83µH
5104	4822 157 63077	0,25µH 5%
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	BAS32L
6041	4822 130 80446	BAS32L
6042	4822 130 80446	BAS32L
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
6106	4822 130 80888	BA682
6107	4822 130 80888	BA682
6108	4822 130 80888	BA682
6109	4822 130 80446	LL4148

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7100	4822 209 63059	TDA3856/V3
7101	4822 209 63784	TDA3857/V3
7102	4822 130 61207	BC848
7103	5322 130 42012	BC858
7104	4822 130 61207	BC848
7200	4822 209 63294	TDA8417/V1
7220	4822 209 63734	TDA8425/V7
7232	5322 130 41982	BC848B

NICAM IF/sound module

4822 212 23692	IF MOD. PAL BG
4822 212 23691	IF MOD. PAL I

various

1010	4822 242 72554	OFWG3254
1010	4822 242 72553	OFWJ3251
1042	4822 242 72211	TPS 5,5MHz
1042	4822 153 30025	6MHz
1100	4822 242 70485	SFT5,74MA
1105	4822 242 70714	SFT5,5MA
1105	4822 242 71713	SFE6,0MBF
1116	4822 242 72301	TH316BQM-2080QDAF
1116	4822 242 72303	TH316BQM-2110QDAF
1125	4822 242 72302	5,850 MHz
1125	4822 242 72347	6,552 MHz
1141	4822 242 72304	5,824 MHz
1191	4822 253 10064	FUSE 0,4A
1200	4822 242 80208	10 MHz

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	4822 122 31746	1000pF 5% 50V
2102	4822 122 32765	820pF 10% 63V
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 32893	100nF 80% 50V
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 32893	100nF 80% 50V
2134	4822 122 32893	100nF 80% 50V
2135	4822 122 32893	100nF 80% 50V
2136	4822 122 32893	100nF 80% 50V
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 32893	100nF 80% 50V
2151	4822 122 31772	47pF 5% 50V
2153	4822 122 32862	10nF 80% 50V
2154	4822 122 31972	39pF 5% 50V
2155	4822 125 50045	20pF
2162	4822 122 32893	100nF 80% 50V
2168	4822 122 33496	100nF 10% 63V
2169	4822 124 41506	47µF 20% 16V
2170	4822 122 31759	18nF
2170	4822 122 32597	6,8nF 10% 63V
2171	4822 122 33608	39nF 10% 63V
2171	4822 122 31782	15000pF 10% 50V
2173	4822 122 31773	560pF 5% 50V
2174	4822 122 33498	2,7nF 10% 63V
2175	4822 122 32999	2,2N 5% NPO
2176	4822 121 51252	470nF 5% 63V
2177	4822 122 32863	22nF 80% 50V
2180	4822 122 31759	18nF
2180	4822 122 32597	6,8nF 10% 63V
2181	4822 122 33608	39nF 10% 63V
2181	4822 122 31782	15000pF 10% 50V
2183	4822 122 31773	560pF 5% 50V
2184	4822 122 33498	2,7nF 10% 63V
2185	4822 122 32999	2,2N 5% NPO
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 32893	100nF 80% 50V
2191	4822 124 41643	100µF 20% 16V
2192	4822 122 32893	100nF 80% 50V
2193	4822 124 40849	330µF 20% 16V
2194	4822 122 32893	100nF 80% 50V
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 32893	100nF 80% 50V
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 32893	100nF 80% 50V
2215	4822 124 41506	47µF 20% 16V
2216	4822 122 31981	33nF ±0,5pF 50V
2217	4822 124 41577	4,7µF 20% 50V
2218	4822 124 41643	100µF 20% 16V
2219	4822 124 41577	4,7µF 20% 50V
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	15000pF 10% 50V
2226	4822 122 31782	15000pF 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 11163	100k 30% LIN 0,1W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W

NICAM IF/sound module (continued)

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 116 90536	120Ω 1% 0,125W
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
3065	4822 051 10472	4k7 2% 0,25W
3070	4822 051 10822	8k2 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	4822 051 10153	15k 2% 0,25W
3171	4822 051 10102	1k 2% 0,25W
3171	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	4822 051 10472	4k7 2% 0,25W
3180	4822 051 10562	5k6 2% 0,25W
3180	4822 051 10153	15k 2% 0,25W
3181	4822 051 10102	1k 2% 0,25W
3181	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 100 11676	10k 30% LIN 0,2W
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
4000	4822 051 10393	39k 2% 0,25W
4000	4822 051 10392	3k9 2% 0,25W
4199	4822 051 10008	0Ω 5% 0,25W

5010	4822 157 53302	1µH
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5042	4822 157 53634	5,6µH 10%
5101	4822 157 52511	0,83µH
5102	4822 157 52511	0,83µH
5103	4822 157 63077	0,25µH 5%
5129	4822 157 51238	0,820µH
5130	4822 157 51238	0,820µH
5153	4822 157 53575	3,3µH

6151	5322 130 34953	BB405B
6190	4822 130 80446	LL4148
6191	4822 130 80954	LLZ-C5V6
6197	4822 130 81027	LLZ-C11

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	BC858
7120	4822 209 73558	TA8662N
7150	4822 209 61114	CF70123
7160	5322 209 10883	PCF8574P
7168	4822 209 73236	TDA1543/N2
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 61026	TDA8415/V1
7213	4822 209 63734	TDA8425/V7
7217	5322 130 41982	BC848B

Teletext module

	4822 212 23697	TXT MOD. EUROPE
	4822 212 23698	TXT MOD. SCAN

21	4822 267 40469	6P MALE GOLD
22	4822 265 40471	8P MALE GOLD

various

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

2792	4822 122 33496	100nF 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
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 31727	470pF 5% 63V
2824	4822 122 32891	68nF 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 31766	120pF 5% 50V
2845	4822 124 40178	100µF 20% 10V
2846	4822 124 41554	220µF 20% 10V
2849	4822 124 21212	15µF 20% 35V
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
3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10271	270Ω 2% 0,25W
3814	4822 116 52204	1k 5% 0,5W
3815	4822 051 10152	1k5 2% 0,25W

Teletext module (continued)

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 10122	1k2 2% 0,25W
3829	4822 116 52211	150Ω 5% 0,5W
3830	4822 050 28209	82Ω 1% 0,6W
3831	4822 051 10681	680Ω 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	0Ω 5% 0,25W
3901	4822 051 10008	0Ω 5% 0,25W
3904	4822 051 10008	0Ω 5% 0,25W
3906	4822 051 10008	0Ω 5% 0,25W
3908	4822 051 10008	0Ω 5% 0,25W
3910	4822 051 10008	0Ω 5% 0,25W
3913	4822 051 10008	0Ω 5% 0,25W
3914	4822 051 10008	0Ω 5% 0,25W
3915	4822 051 10008	0Ω 5% 0,25W
3917	4822 051 10008	0Ω 5% 0,25W
3918	4822 051 10008	0Ω 5% 0,25W
3919	4822 051 10008	0Ω 5% 0,25W
3920	4822 051 10008	0Ω 5% 0,25W
3921	4822 051 10008	0Ω 5% 0,25W
3922	4822 051 10008	0Ω 5% 0,25W

5800	4822 156 20966	47 µH
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60µH
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	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6813	4822 130 80906	LLZ-C7V5
6814	4822 130 80446	LL4148
6820	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1

7800	4822 209 63857	PCF84C81/074
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 72681	KM6264AL-15
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M3
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	BC858

PIP module

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

Various parts

1155	4822 320 40051	DELAY LINE DL711
1201	4822 242 70304	crystal 8,867 238 MHz
1212	4822 242 70736	crystal 7,159 090 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 5% 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 trim.
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
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

PIP module (continued)

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% 100V
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
2451	4822 121 51379	82nF 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 116 52204	1k 5% 0,5W
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 116 52204	1k 5% 0,5W
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	jumper
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

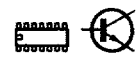
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
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 116 52287	51k 5% 0,5W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

jumpers

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%
5404	4822 156 20915	33µH 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 62477	TDA4554/V8
7126	4822 209 70019	TDA4510/V2/S8
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	SDA9088/2R
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8