Service
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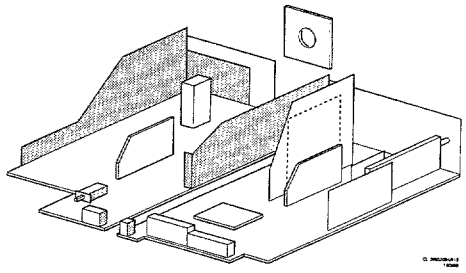
FL 1.10
AA



Service Manual

Contents

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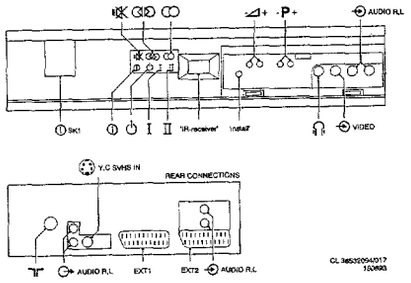
1. Technical data

Mains voltage	: 220 - 240 V (± 10%)
	: 50 Hz - 60 Hz (± 5%)
Aerial input impedance	: 75 Ω - coaxial
Minimum aerial voltage	: 30 µV (VHF), 40 µV (UHF)
Maximum aerial voltage VHF/S/UHF	: 180 mV
Programmes	: 0 - 59
VCR programmes	: 0, 50 - 59

2. Connection facilities and Chassis overview



Specification of the connectors

EXT1 (AUX): RGB+CVBS

1	-Audio	⊖→	R(0,5VRMS ≤ 1kΩ)
2	-Audio	⊖←	R(0,5VRMS ≥ 10kΩ)
3	-Audio	⊖→	L(0,5VRMS ≤ 1kΩ)
4	-Audio	⊥	
5	-Blue	⊥	
6	-Audio	⊖←	L(0,5VRMS ≥ 10kΩ)
7	-Blue (0,7Vpp/75Ω)		
8	-CVBS-status	⊖←	0-2V: INT 4,5-7V: EXT 16:9 9,5-12V: EXT 4:3
9	-Green	⊥	
10	--		
11	-Green (0,7Vpp/75Ω)		
12	--		
13	-Red	⊥	
14	-RGB-status		
15	-Red (0,7Vpp/75Ω)		
16	-RGB-status (0-0,4V: INT; 1-3V: EXT/75Ω)		
17	-CVBS	⊥	
18	-CVBS	⊥	
19	-CVBS	⊖→	(1Vpp/75Ω)
20	-CVBS	⊖←	(1Vpp/75Ω)
21	-Earth screen		

EXT2 (SVHS) (rear)

SVHS	1 -	⊥	
	2 -	⊥	
	3 - Y	⊖←	(1Vpp; 75Ω)
	4 - C	⊖←	(0,3Vpp; 75Ω)
◎ CINCH Audio		⊖←	L(0,2 - 2VRMS; ≥ 10kΩ)
◎ CINCH Audio		⊖←	R(0,2 - 2VRMS; ≥ 10kΩ)

Audio out (rear)

◎ CINCH Audio	⊖→	L(0,5VRMS; ≤ 1kΩ)
◎ CINCH Audio	⊖→	R(0,5VRMS; ≤ 1kΩ)

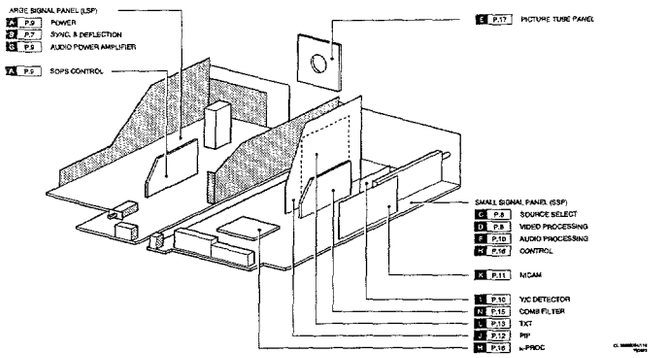
EXT2 (VCR): SVHS (Y/C) + CVBS

1	-Audio	⊖→	R(0,5VRMS ≤ 1kΩ)
2	-Audio	⊖←	R(0,5VRMS ≥ 10kΩ)
3	-Audio	⊖→	L(0,5VRMS ≤ 1kΩ)
4	-Audio	⊥	
5	-		
6	-Audio	⊖←	L(0,5VRMS ≥ 10kΩ)
7	--		
8	-CVBS-status	⊖←	0-2V: int 4,5-7V: EXT 16:9 9,5-12V: EXT 4:3 ⊖← 4,5 : EXT 16:9
9	--		
10	--		
11	--		
12	--		
13	-C	⊥	
14	--		
15	-C	⊖←	(1Vpp/75Ω)
16	--		
17	-CVBS	⊥	
18	-CVBS	⊥	
19	-CVBS	⊖→	(1Vpp/75Ω)
20	-CVBS/Y	⊖←	(1Vpp/75Ω)
21	-Earth screen		

EXT3 (front)

◎ CINCH Video	⊖←	300mVpp/75Ω
◎ CINCH Audio	⊖←	L(0,2 - 2VRMS; ≥ 10kΩ)
◎ CINCH Audio	⊖←	R(0,2 - 2VRMS; ≥ 10kΩ)
◎ 6.3mm / 🎧		32-2000Ω ≥ 10mW

Chassis overview



3. Warnings and Notes

Warnings

- 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 ⚠.

- 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, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

- **ESD**

  All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the 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.

- When repairing a unit, always connect it to the mains voltage via an isolating transformer.

- Be careful when taking measurements in the high-voltage section and on the picture tube.

- Never replace modules or other components while the unit is switched on.

- It is recommended that safety goggles are worn when replacing the picture tube.

  When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

  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 is connected to the -16/-11 volts.**

11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.

12. 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.

Notes

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

2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.

3. Where necessary, the oscillograms and direct voltages are measured with (⌐╦) and without aerial signal (⊁) Voltages in the power supply section are measured both for normal operation (⏻) and in standby (⏼). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

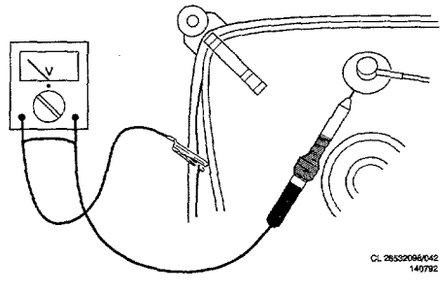


Fig. 3.1

4. M

It
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1. R
B
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R

2. Se
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Se

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4. Mechanical instructions

It is extremely important that following disassembly all cables are replaced in their original positions in order that safety and sound and picture quality may be guaranteed.

1. Removing the rear panel

Before the rear panel is removed the connection to the subwoofer should first be disconnected:
Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)
Remove the rear panel from the set.

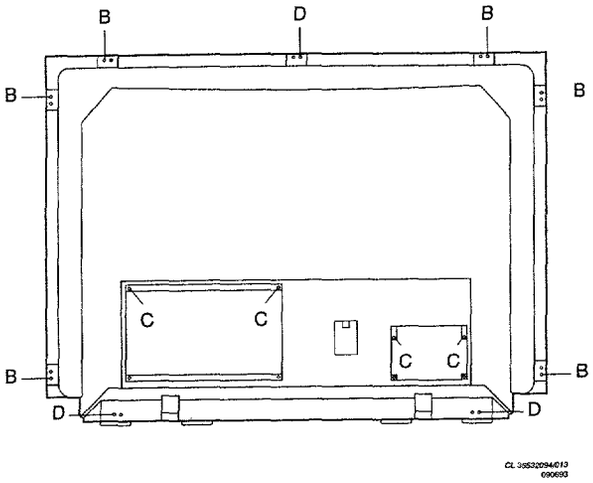


Fig. 4.1

2. Service positions

FL1 can be placed in two service positions. (fig. 4.2)
Remove the rear panel.
Remove the screw behind the flap on the front side of the set.

Service position 1:

If present, press down the lugs with which the chassis is secured and pull both panels simultaneously to the rear, removing any hindering cables from the cable ties if necessary.
Place the panels vertically behind the set as illustrated in figure 4.2a.

Service position 2:

Disconnect connectors L01, L02 and L03 that connect the small (SSP) and large signal panel (LSP) together. Pull the panel concerned backwards out of the set. Using extension cable set 4822 320 20209 (fig. 4.3) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4.2b.

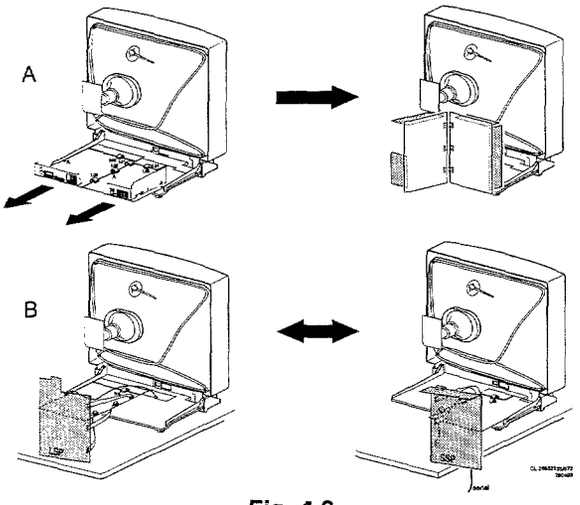


Fig. 4.2

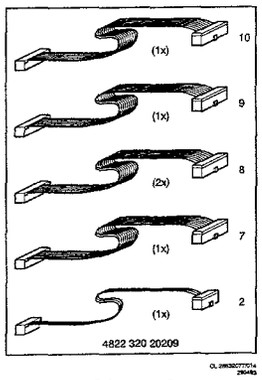
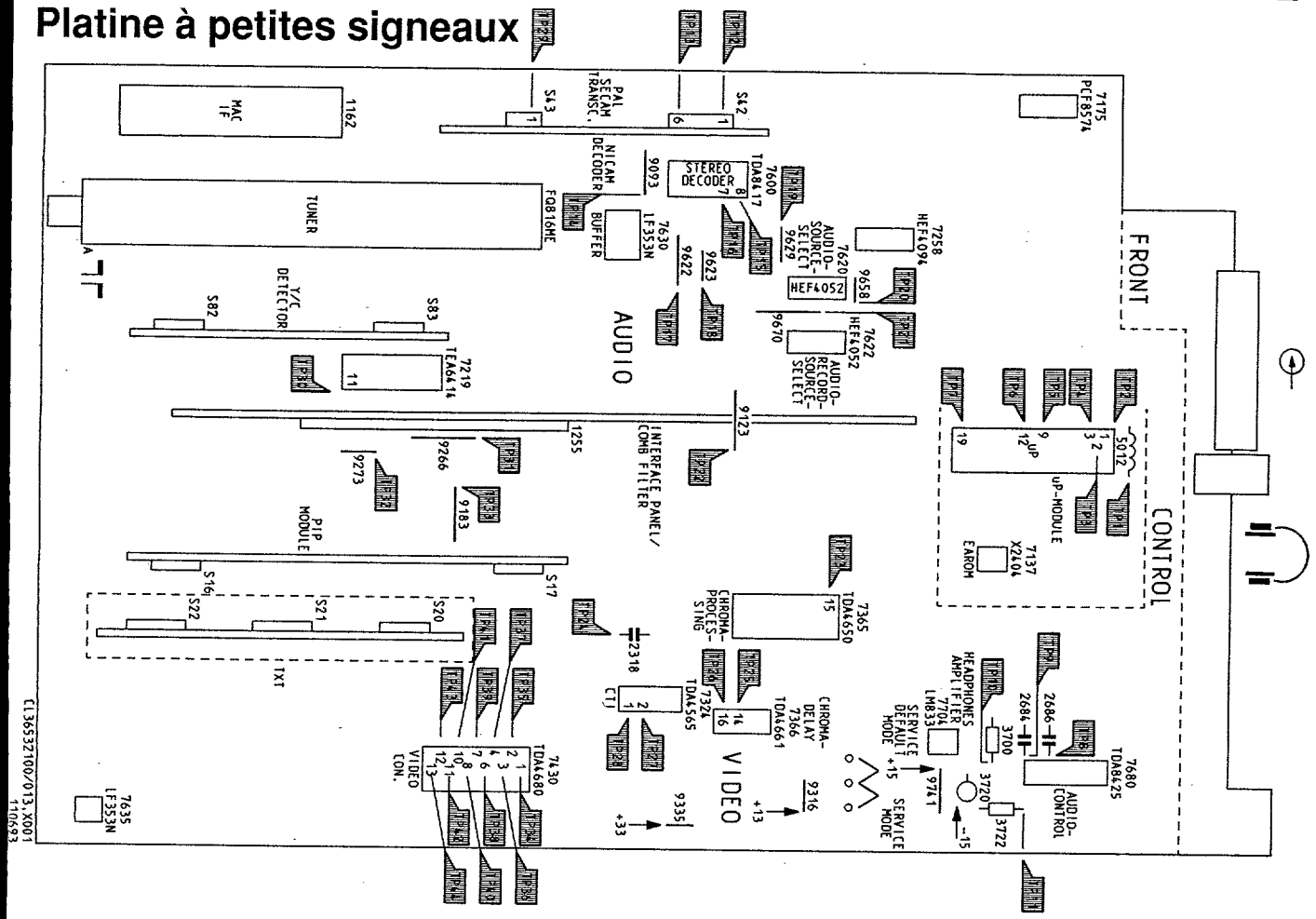
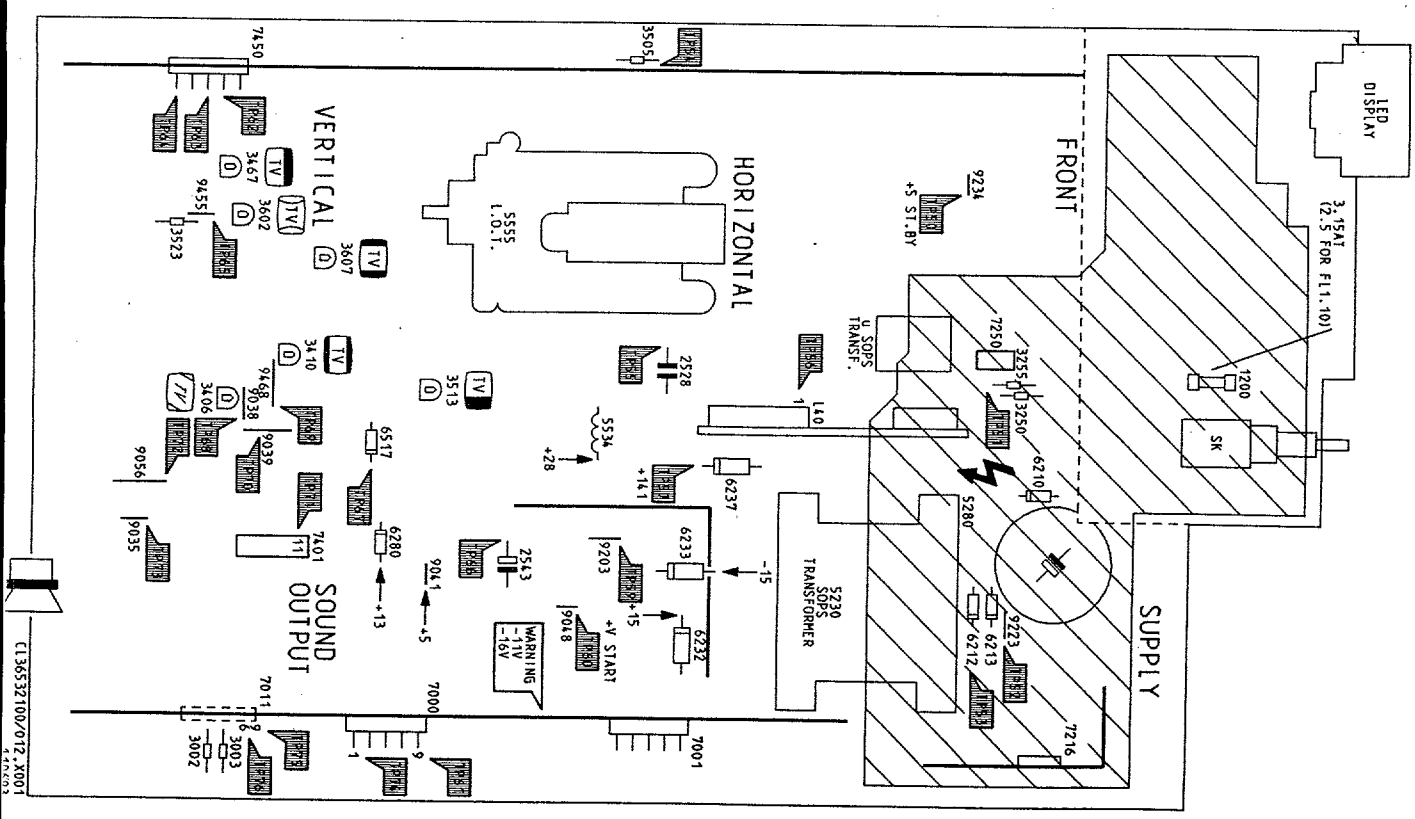


Fig. 4.3

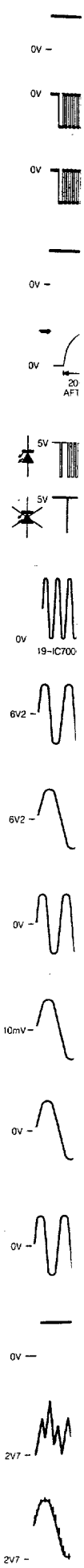
Small signal panel / Klein-signal Platte / Platine à petites signeaux



Large signal panel / Groß-signal Platte / Platine forts signeaux

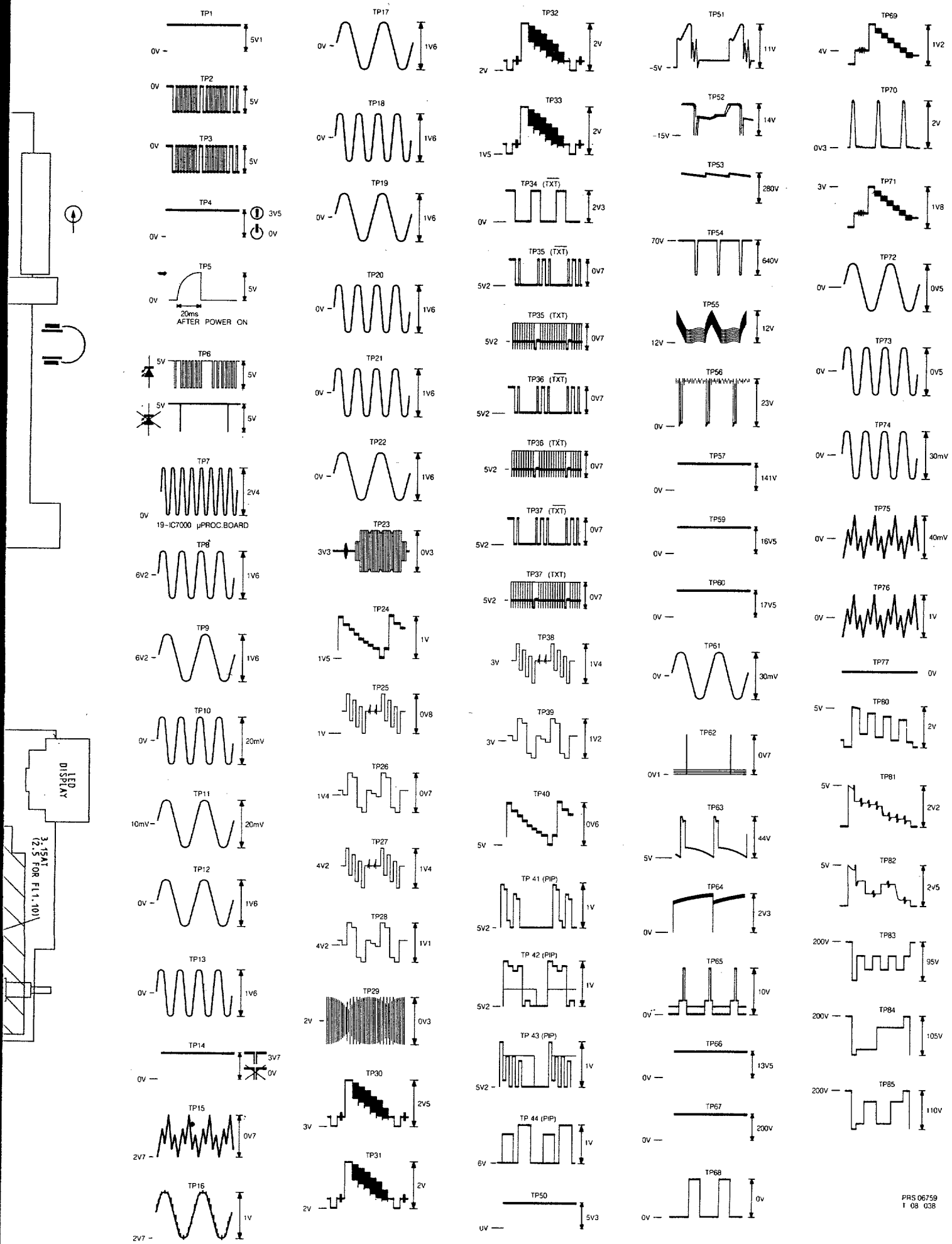


Oscill



Oscillograms

Oscillograms / Oscillogrammes



PRS 06759
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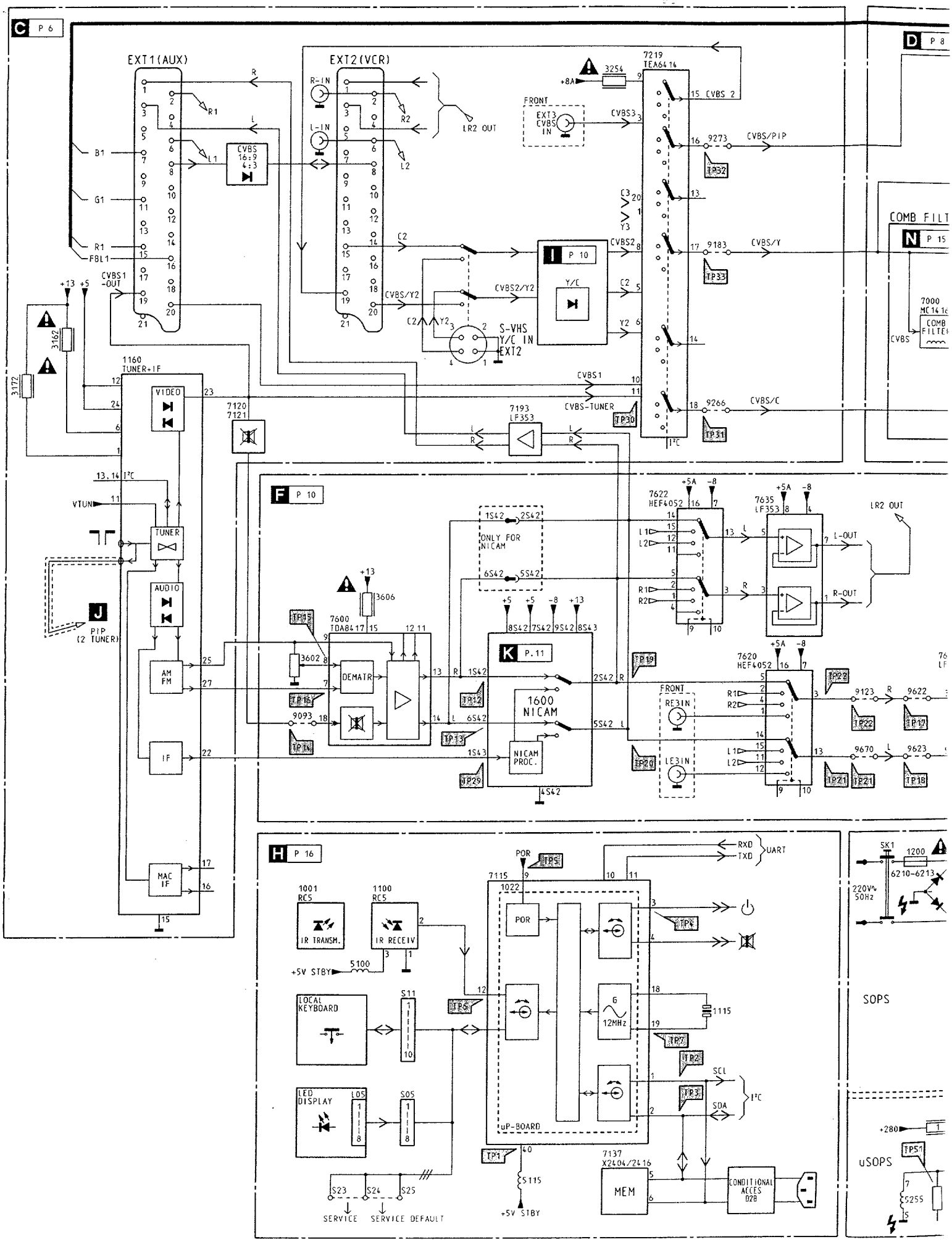

C P 6
D P 8
EXT1(AUX)
EXT2(VCR)
R-IN
L-IN
R1
L1
R2
L2
LR2 OUT
CVBS 16:9 4:3
B1
G1
R1
FBL1
CVBS1 -OUT
+13
+5
3162
3172
1160 TUNER+IF
VIDEO
7120 7121
7219 TEA6414
3254
+8A
FRONT
EXT3 CVBS IN
CVBS3
15 CVBS 2
16 9273 CVBS/PIP
TP32
13
C3
Y3
C2
CVBS2
I P 10
Y/C
17 9183 CVBS/Y
TP33
CVBS/Y2
CVBS2/Y2
C2
Y2
S-VHS Y/C IN EXT2
CVBS1
CVBS-TUNER
7193 LF353
TP30
18 9266 CVBS/C
TP31
I²C
COMB FILT
N P 15
7000 MC1416
COMB FILTER
CVBS
13,14 I²C
VTUN
TUNER
AUDIO
J
PIP (2 TUNER)
AM FM
IF
MAC IF
F P 10
1S42 2S42
ONLY FOR NICAM
6S42 5S42
7622 HEF4052
7635 LF353
L-OUT
R-OUT
+13
3606
7600 TDA8417
3602
DEMATR
8S42 7S42 9S42 8S43
K P.11
1600 NICAM
NICAM PROC.
4S42
TP19
TP12
TP13
TP14
TP15
TP16
TP29
7620 HEF4052
FRONT
RE3IN
LE3IN
TP20
TP22
TP17
TP21
TP18
9123
9622
9670
9623
H P 16
POR
RXD
TXD
UART
7115
1022
1001 RC5
1100 RC5
IR TRANSM.
IR RECEIV
+5V STBY
5100
LOCAL KEYBOARD
S11
LED DISPLAY
LO5
SO5
S23
S24
S25
SERVICE
SERVICE DEFAULT
uP-BOARD
TP1
TP2
TP3
TP4
TP5
TP6
TP7
6 12MHz
1115
SCL
SDA
I²C
5115
7137 X2404/2416
MEM
CONDITIONAL ACCES D2B
SK1
1200
6210-6213
220V~ 50Hz
SOPS
+280
TP51
uSOPS
5255

Blockdiagram / Blockschaltbild /

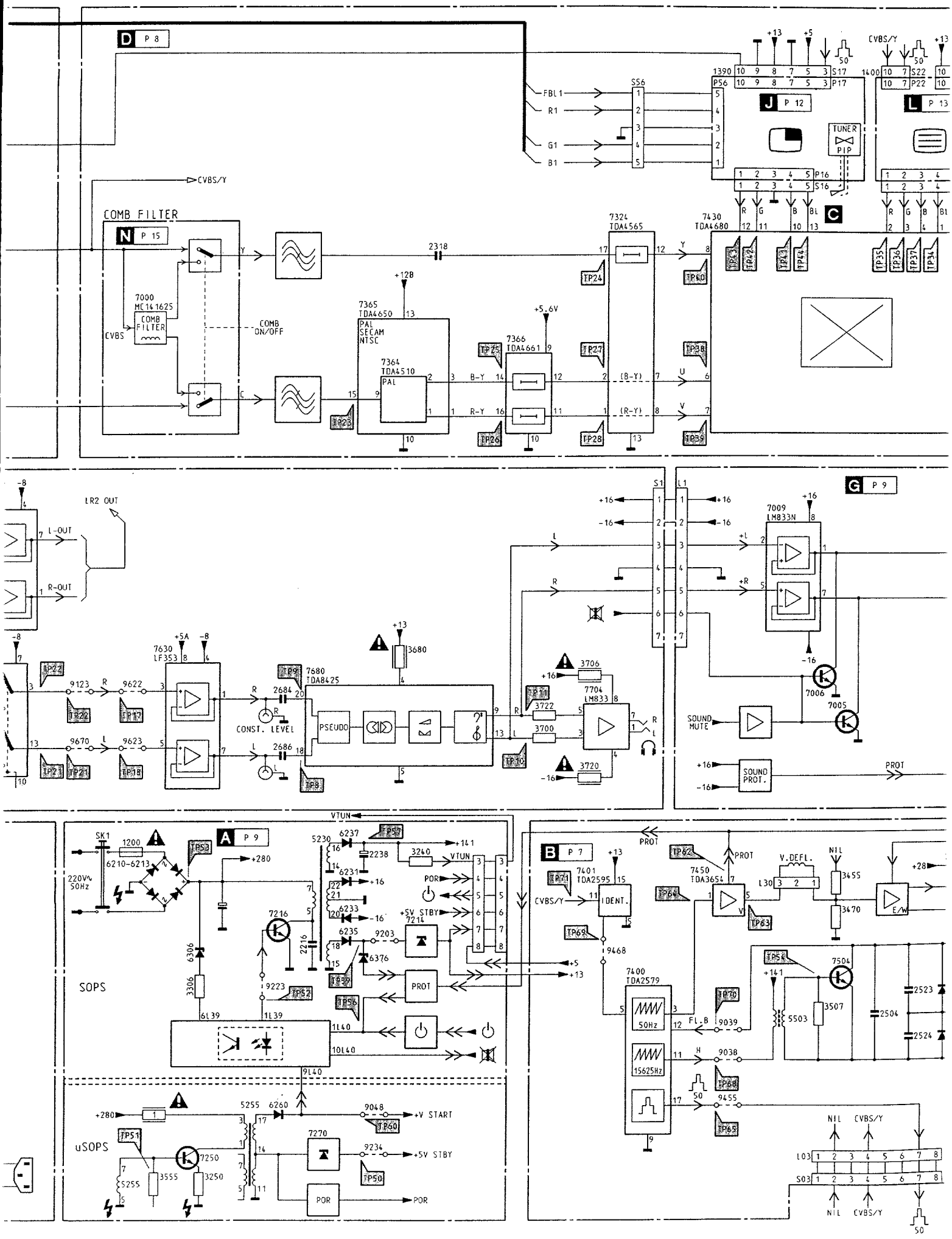
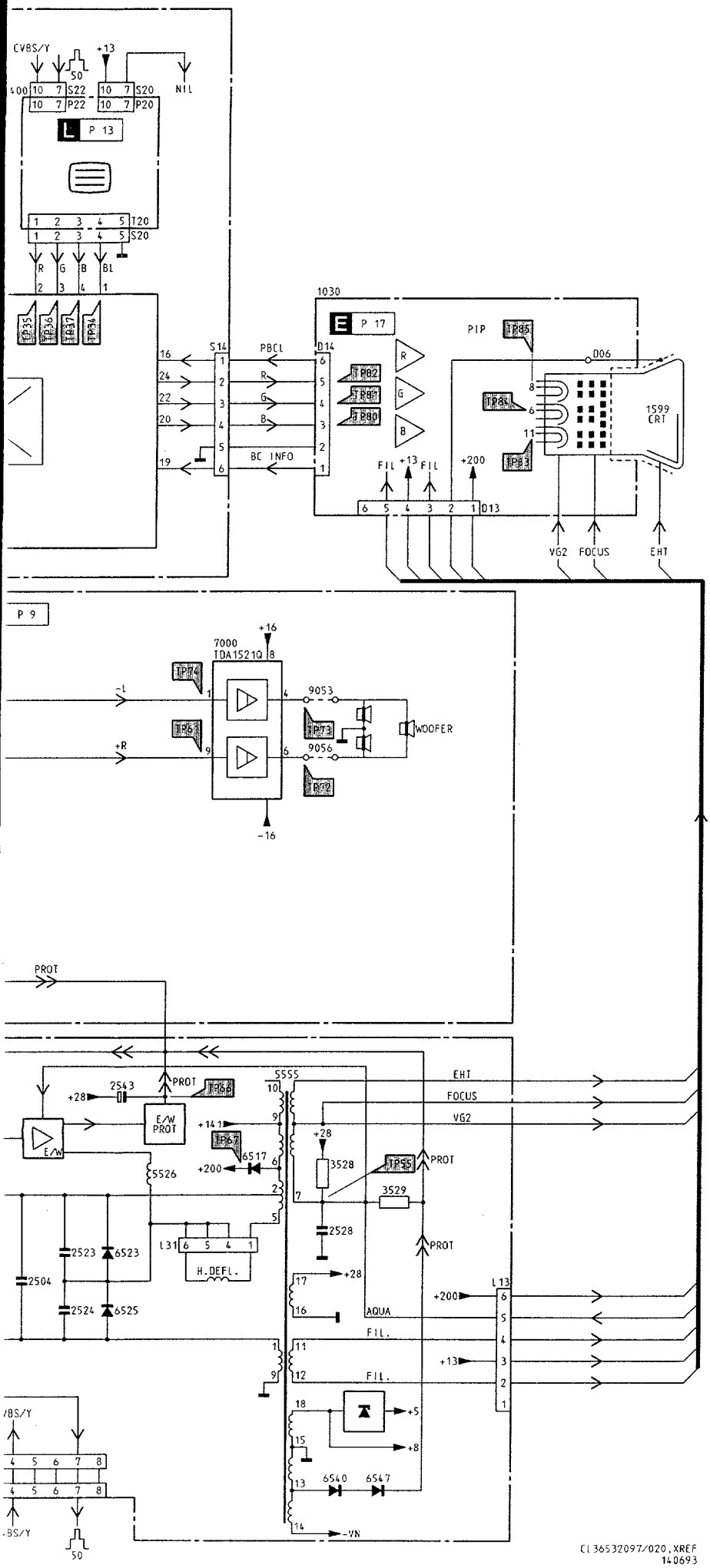
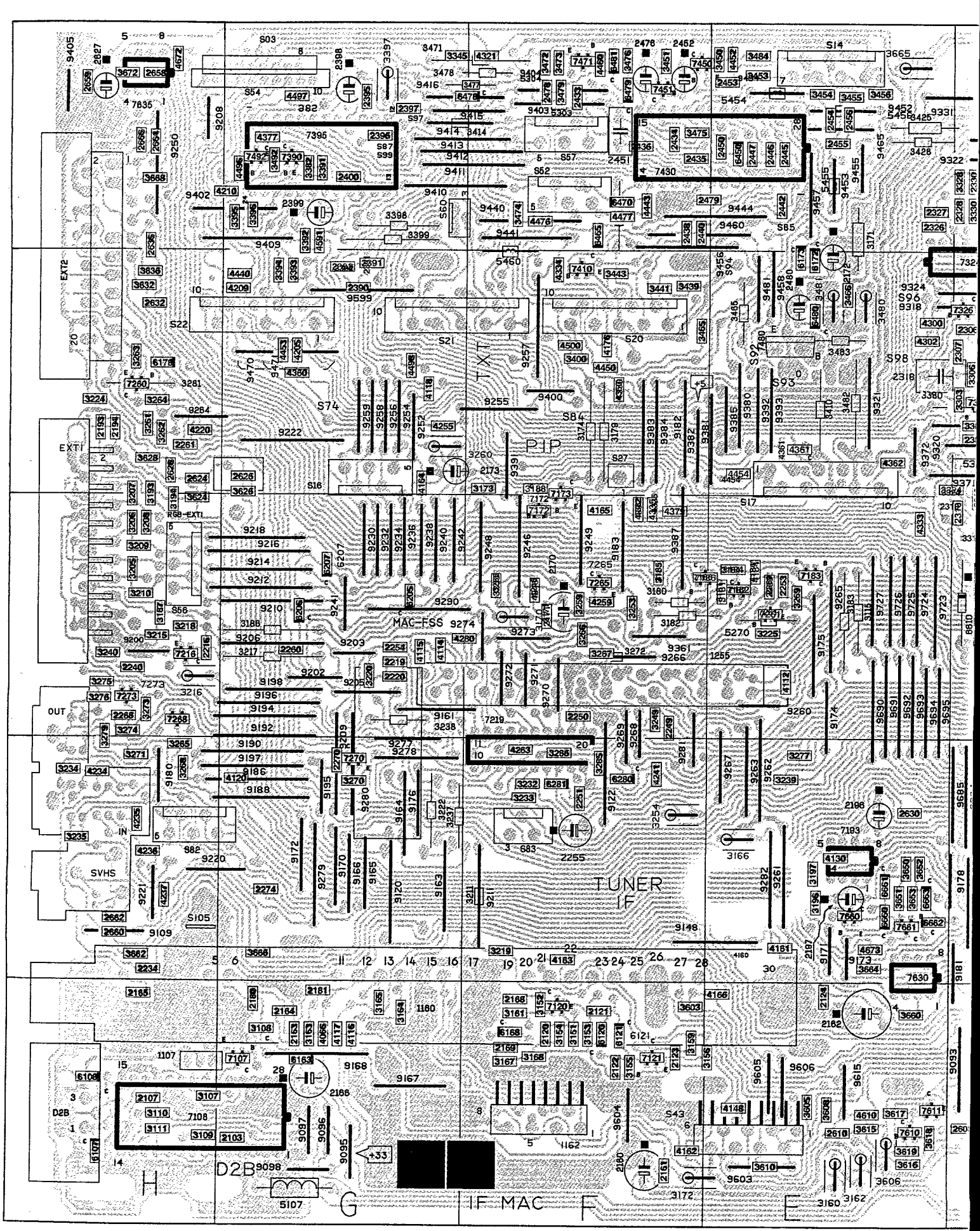


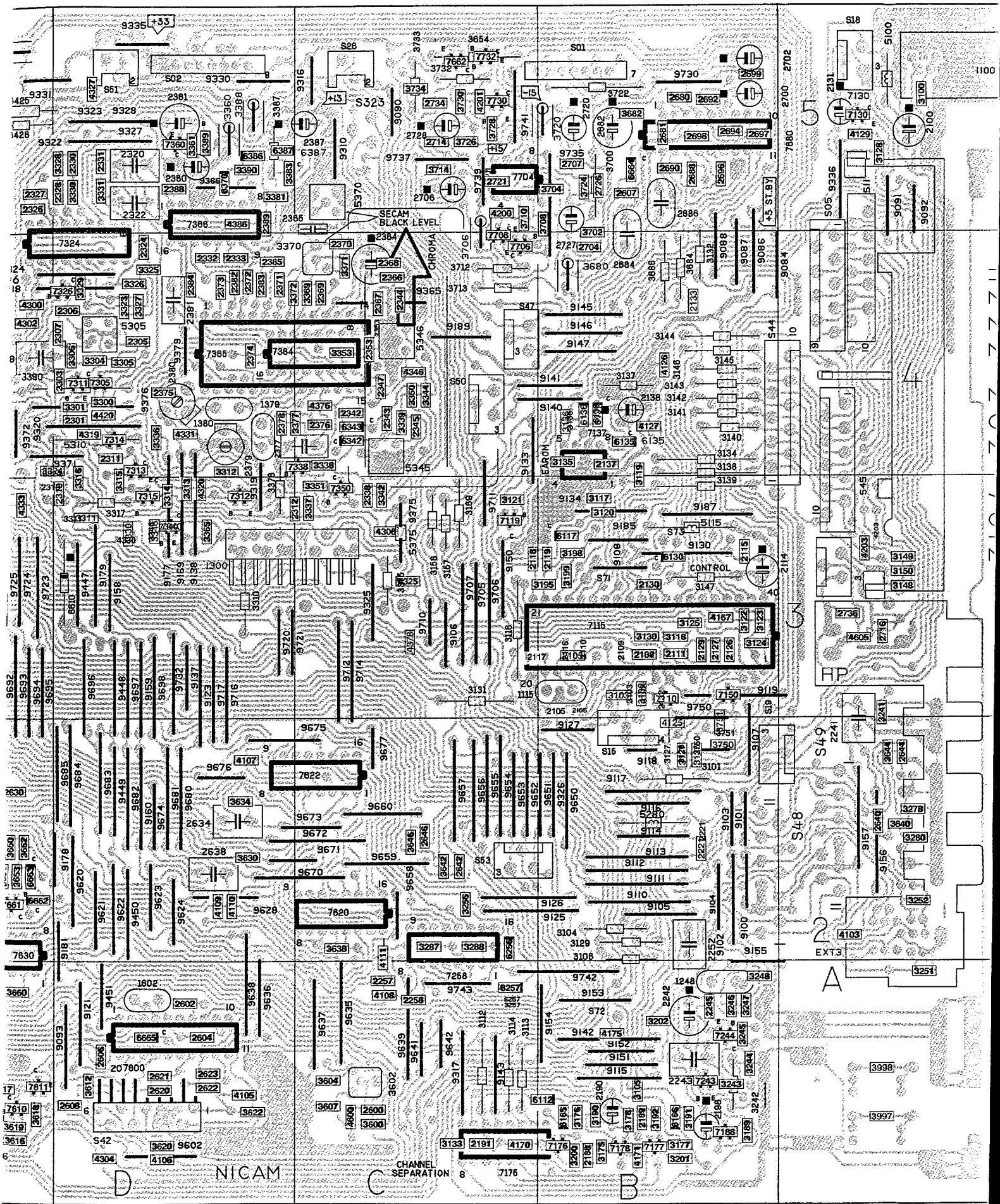
Diagramme schématique

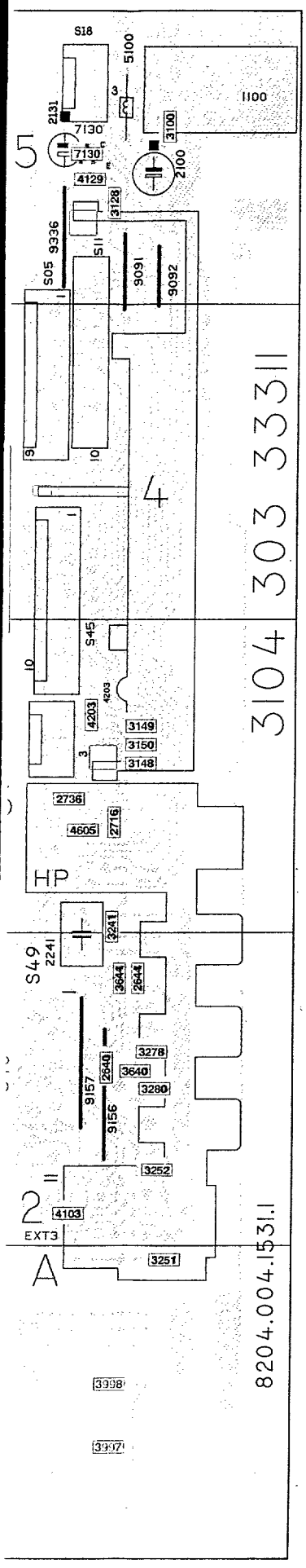


Small signal panel / Klein-signal Platte / Platir



Platine à petits signeaux





D2B	H1	2250	F3	2636	H4	3175	B1	3329	D4	3682	B5	4591	G5	7390	G5	9186	G2	9414	G5
EXT1	H3	2251	F2	2638	D2	3176	B1	3330	D5	3684	B4	4600	C1	7395	G5	9187	B3	9415	F5
EXT2	H4	2252	B2	2640	A2	3177	B1	3331	D5	3686	B4	4605	A3	7410	F4	9188	G2	9416	F5
EXT3	A3	2253	E3	2642	C2	3178	B1	3336	D4	3700	B5	4610	E1	7430	E5	9189	C4	9440	F5
SVHS	H2	2254	G3	2644	A2	3179	F4	3337	C3	3702	B4	4672	H5	7450	F5	9190	G2	9441	F5
S01	B5	2255	F2	2646	C2	3180	F3	3338	C4	3704	B5	4673	E2	7451	F5	9192	G2	9444	E5
S02	D5	2257	C1	2658	H5	3181	E3	3339	C4	3706	C4	5100	A5	7471	F5	9194	G3	9447	D3
S03	H5	2258	C1	2659	H5	3182	F3	3342	C3	3708	B5	5107	G1	7480	E4	9195	G2	9448	D3
S05	A4	2260	G3	2660	H2	3183	E3	3344	C4	3710	C5	5115	B3	7492	G5	9196	G3	9449	D2
S11	A5	2261	H4	2662	H2	3184	E3	3345	G5	3712	C4	5270	E3	7600	D1	9197	G2	9450	D2
S14	E5	2268	H3	2664	H5	3185	F3	3346	D3	3713	C4	5280	B2	7610	E1	9198	G3	9451	D1
S15	B2	2269	E3	2666	H5	3186	G3	3350	C4	3714	C5	5303	F5	7611	E1	9200	H3	9452	E5
S16	G4	2270	G2	2680	B5	3187	H3	3351	C3	3720	B5	5304	F5	7620	C2	9202	G3	9453	E5
S17	E4	2274	G2	2681	B5	3189	B1	3353	C4	3722	B5	5305	D4	7622	C2	9203	G3	9454	E5
S18	A5	2301	D4	2682	B5	3190	B1	3360	D5	3724	B5	5310	D4	7630	E1	9205	G3	9455	E5
S19	B2	2305	D4	2684	B4	3191	B1	3361	D5	3726	C5	5345	C4	7635	H5	9206	G3	9456	F4
S20	F4	2306	D4	2686	B5	3192	B1	3365	D3	3728	C5	5346	C4	7660	E2	9208	H5	9457	E5
S21	F4	2307	D4	2688	B5	3193	H3	3369	C4	3730	C5	5370	C5	7661	E2	9209	G2	9458	E4
S22	G4	2310	D3	2690	B5	3194	H3	3370	C4	3732	C5	5375	C3	7662	C5	9210	G3	9460	F5
S26	C5	2311	D4	2692	B5	3195	B3	3371	C4	3733	C5	5454	E5	7680	B5	9211	F2	9465	E5
S27	F4	2312	C3	2694	B5	3196	E2	3372	C4	3734	C5	5455	E5	7704	C5	9212	G3	9466	E4
S42	D1	2318	E4	2696	B5	3197	E2	3375	C3	3750	B2	5456	E5	7706	C4	9214	G3	9470	G4
S43	E1	2320	D5	2697	B5	3198	B3	3376	D3	3751	B2	5460	F4	7708	C4	9216	G3	9471	G4
S44	B4	2322	D5	2698	B5	3199	B3	3377	C4	3996	A1	6107	H1	7730	C5	9218	G3	9481	E4
S45	A4	2324	D4	2699	B5	3200	B1	3380	D4	3997	A1	6108	H1	7732	C5	9220	G2	9599	G4
S46	A3	2326	E5	2700	B5	3201	B1	3381	D5	3998	A1	6112	B1	9084	B4	9221	H2	9602	D1
S47	C4	2327	E5	2702	B5	3202	B1	3382	G5	3999	A1	6117	B3	9086	B4	9222	G4	9603	E1
S48	B2	2328	D5	2704	B4	3205	H3	3383	D5	4066	G1	6120	F1	9087	B4	9230	G3	9604	F1
S49	A2	2330	D5	2706	C5	3206	H3	3387	D5	4103	A2	6121	F1	9088	B4	9232	G3	9605	E1
S50	C4	2331	D5	2707	B5	3207	H3	3388	D5	4105	D1	6130	B3	9089	G2	9234	G3	9606	E1
S51	D5	2332	D4	2714	C5	3208	H3	3389	D5	4106	D1	6135	B4	9090	C5	9236	G3	9615	E1
S52	F5	2333	D4	2716	A3	3209	H3	3390	D5	4107	D2	6136	B4	9091	A5	9238	G3	9620	D2
S53	C2	2338	C3	2720	B5	3210	H3	3391	G5	4108	C1	6163	G1	9092	A5	9240	G3	9621	D2
S54	H5	2342	C4	2721	C5	3211	F2	3392	G5	4109	D2	6165	B1	9093	D1	9241	G3	9622	D2
S56	H3	2343	C4	2726	B5	3215	H3	3393	G4	4110	D2	6166	B1	9095	G1	9242	G3	9623	D2
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S60	G5	2345	C4	2728	C5	3217	G3	3395	G5	4112	E3	6172	E4	9097	G1	9248	F3	9628	D2
S82	G2	2347	C4	2734	C5	3218	H3	3396	G5	4114	G3	6173	E4	9098	G1	9249	F3	9635	C1
S83	F2	2353	C4	2736	A3	3219	F2	3397	G5	4115	G3	6178	H4	9100	B2	9250	H5	9636	D1
S100	F4	2360	D5	3100	A5	3220	G3	3398	G5	4116	G1	6205	G3	9101	B2	9252	G4	9637	C1
S101	D3	2361	D5	3101	B2	3222	G2	3399	G5	4117	G1	6206	G3	9102	B2	9254	G4	9638	D1
S105	H2	2364	C4	3102	B3	3224	H4	3400	F4	4118	G4	6207	G3	9103	B2	9255	F4	9639	C1
1100	A5	2365	C4	3103	B3	3225	E3	3410	E4	4120	G2	6256	C2	9104	B2	9256	G4	9641	C1
1107	G1	2366	C4	3104	B2	3232	F2	3414	G5	4126	B4	6257	C1	9105	B2	9257	F4	9642	C1
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1300	D3	2371	D4	3109	H1	3238	G3	3443	F4	4161	E2	6345	E4	9110	B2	9262	E2	9654	C2
1379	D4	2372	D4	3110	H1	3239	E2	3450	E5	4162	F1	6370	D5	9111	B2	9263	E2	9655	C2
1380	D4	2373	D4	3111	H1	3240	H3	3451	F5	4163	F2	6386	D5	9112	B2	9264	H4	9656	C2
1602	D1	2374	D4	3112	C1	3241	A3	3453	E5	4164	G4	6387	D5	9113	B2	9265	E3	9657	C2
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2197	E2	2608	D1	3162	E1	3311	D3	3650	E2	4440	G4	7312	D3	9172	G2	9391	F4	9743	C1
2198	B1	2610	E1	3163	G1	3312	D4	3651	E2	4443	F5	7313	D4	9173	E2	9392	E4	9750	B2
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2219	G3	2621	D1	3165	G1	3314	D3	3653	E2	4452	E5	7315	D3	9175	E3	9400	F4		
2220	G3	2622	D1	3166	E2	3315	D3	3654	C5	4453	G4	7324	E5	9176	G2	9402	G5		
2221	B2	2623	D1	3167	F1	3316	D3	3660	E1	4454	E4	7326	D4	9177	D3	9403	F5		
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2243	B1	2630	E2	3172	E1	3326	D4	3668	H5	4497	G5	7364	D4	9182	F4	9411	F5		
2245	B1	2632	H4	3173	F4	3327	D4	3672	H5	4498	G4	7365	D4	9183	F3	9412	F5		
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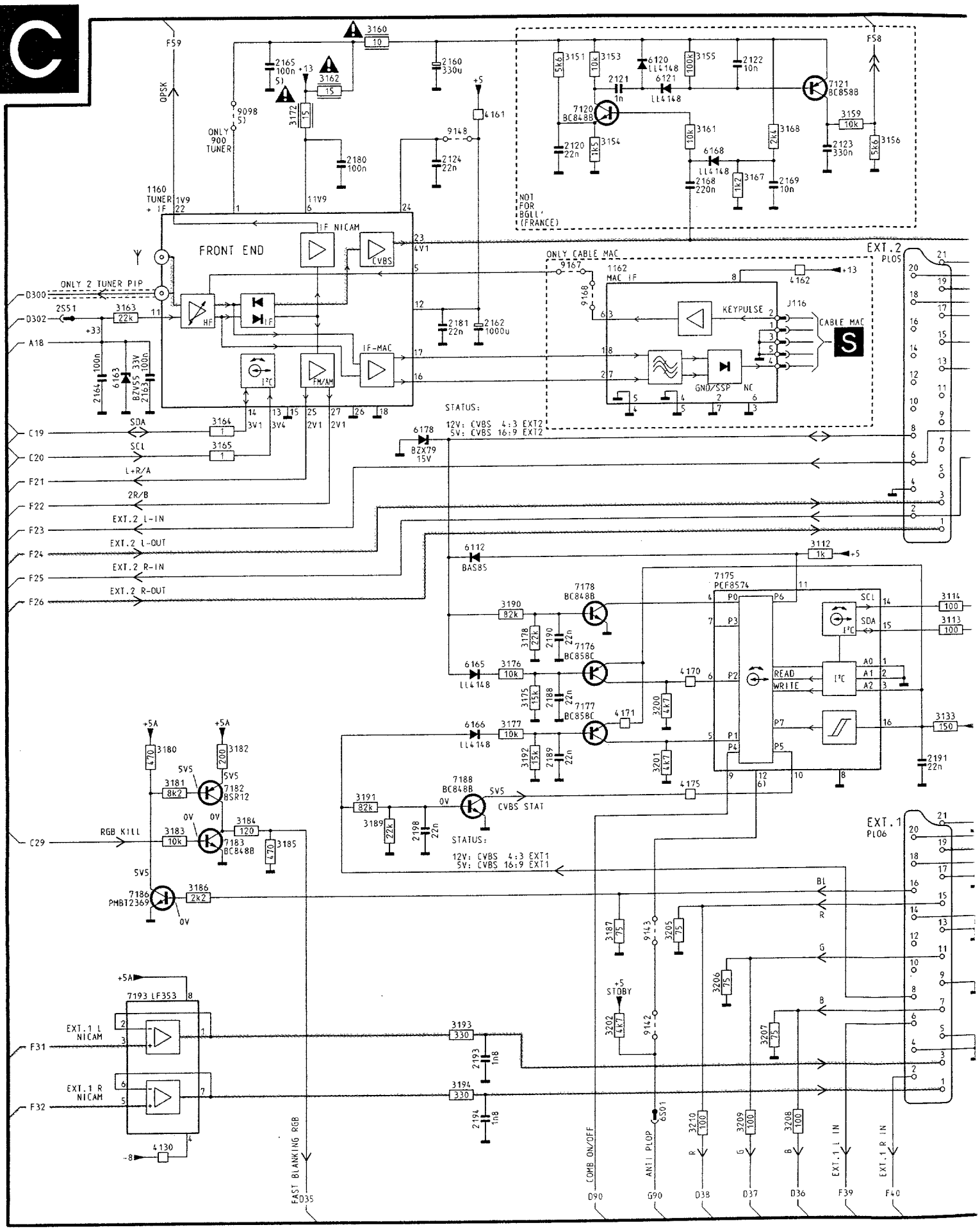
C
FRONT END
TUNER + IF
IF NICAM
CVBS
HF
IF
I²C
FM/AM
IF-MAC
ONLY 2 TUNER PIP
ONLY 900 TUNER
ONLY CABLE MAC
MAC IF
KEYPULSE
CABLE MAC
GND/SSP
NC
NOT FOR BGLL' (FRANCE)
STATUS:
12V: CVBS 4:3 EXT2
5V: CVBS 16:9 EXT2
12V: CVBS 4:3 EXT1
5V: CVBS 16:9 EXT1
CVBS STAT
EXT.2 PL05
EXT.1 PL06
SDA
SCL
L+R/A
2R/B
EXT.2 L-IN
EXT.2 L-OUT
EXT.2 R-IN
EXT.2 R-OUT
RGB KILL
EXT.1 L NICAM
EXT.1 R NICAM
FAST BLANKING RGB
COMB ON/OFF
ANTI PLOP
EXT.1 L IN
EXT.1 R IN
READ
WRITE
STDBY
7193 LF353
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BC848B
BC858C
BSR12
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BAS85
BZX79 15V
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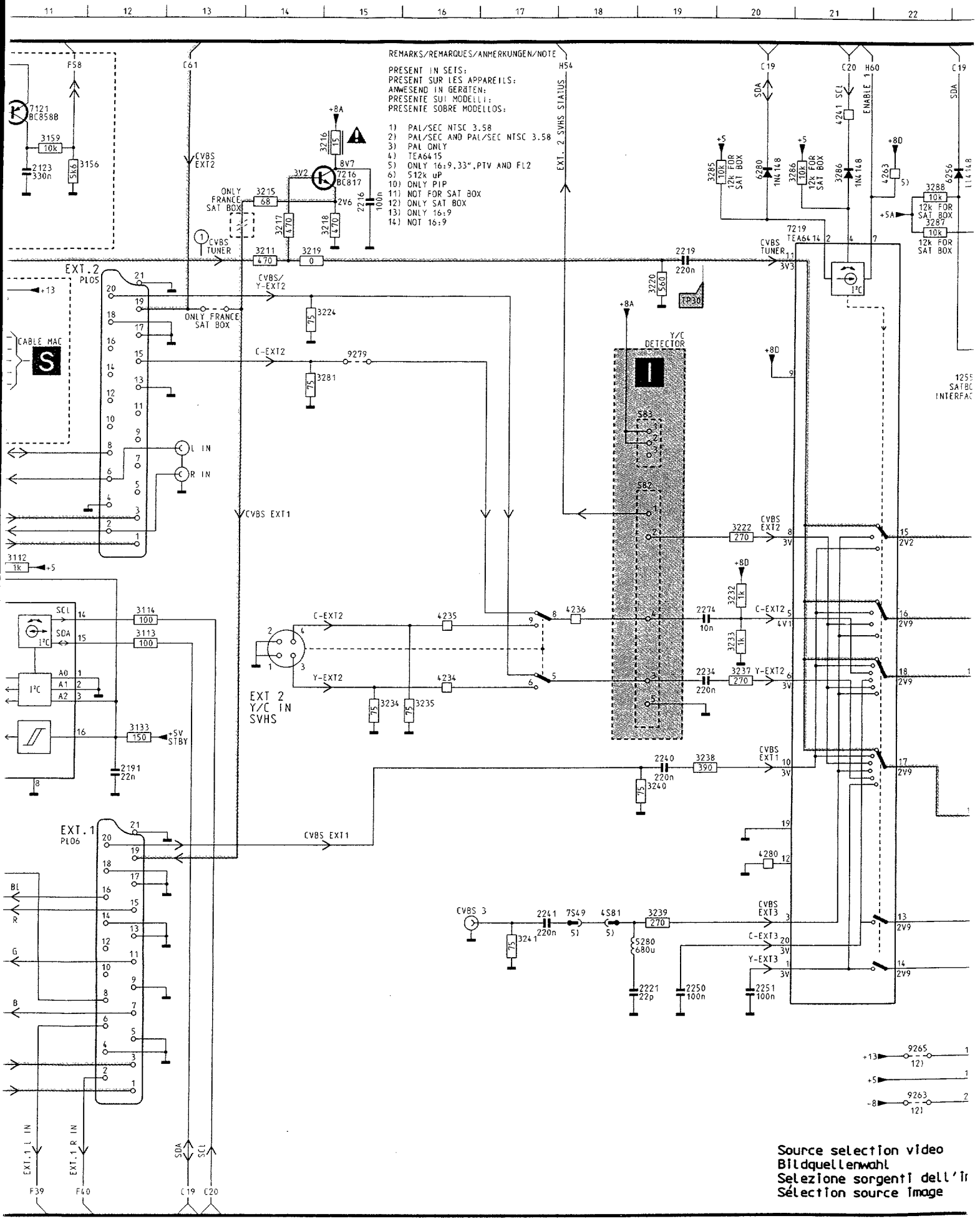
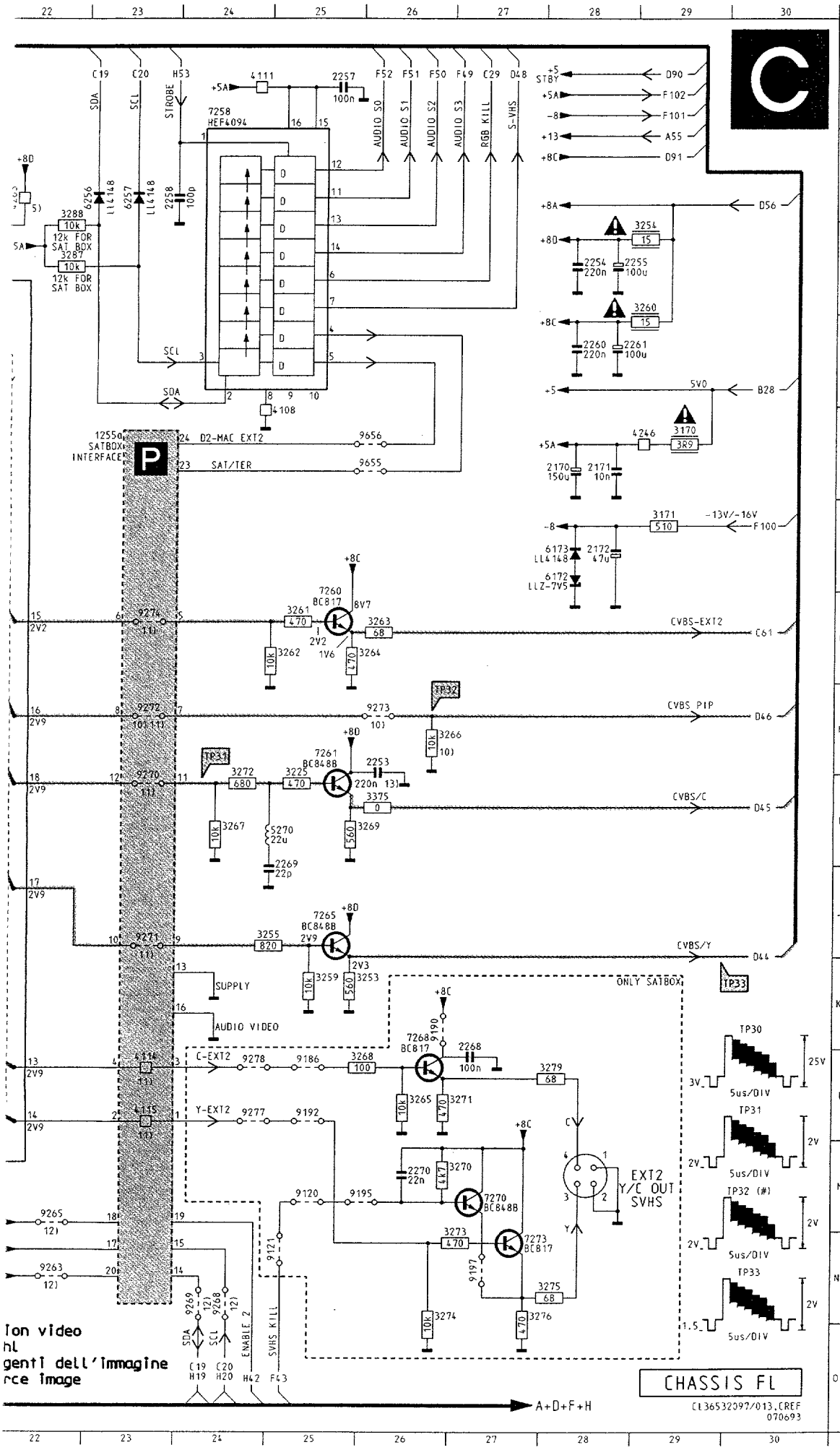
Sélection de source





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	2122	A10	3264	G25
	2123	B11	3265	L26
	2124	B 6	3266	H26
	2160	A 6	3267	I24
	2162	D 7	3268	L26
	2163	E 2	3269	I25
	2164	E 2	3270	M27
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	2168	C 9	3272	I24
	2169	C10	3273	N27
	2170	E28	3274	N26
	2171	E28	3275	N28
	2172	F28	3276	N27
	2180	B 5	3279	L28
	2181	D 6	3281	E14
C	2188	I 7	3285	B19
	2189	J 7	3286	B21
	2190	H 7	3286	B21
	2191	J12	3287	C22
	2193	M 6	3288	B22
	2194	N 6	3375	I26
	2198	K 6	4108	E25
D	2216	C15	4111	A24
	2219	C19	4114	L23
	2221	M19	4115	L23
	2234	I19	4130	N 3
	2240	J19	4161	B 7
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	2250	M19	4170	I 9
	2251	M20	4171	I 8
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	2255	C28	4235	H16
	2257	A25	4236	H18
	2258	B23	4241	B21
	2260	D28	4246	E29
	2261	D28	4263	B22
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	2269	J25	5270	I25
	2270	M26	5280	L19
	2274	H19	6112	G 6
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	3113	H12	6121	A 9
	3114	H12	6163	E 2
	3133	I12	6165	I 6
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	3154	B 8	6172	F28
	3155	A 9	6173	F28
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	3160	A 5	6257	B23
	3161	B 9	6280	B20
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	3163	D 2	7121	B11
	3164	F 3	7175	H 9
	3165	F 3	7176	H 8
	3167	C10	7177	I 8
	3168	B10	7178	H 8
	3170	E29	7182	J 3
I	3171	F29	7183	K 3
	3172	B 4	7186	K 2
	3175	I 7	7188	J 6
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	3177	I 7	7216	B15
	3178	H 7	7219	C20
	3180	I 2	7258	A24
J	3181	J 3	7260	G25
	3182	I 3	7261	H25
	3183	K 3	7265	J25
	3184	J 4	7268	K26
	3185	K 4	7270	M27
	3186	K 3	7273	N27
	3187	L 8	9098	B 3
	3189	J 5	9120	M25
K	3190	H 7	9121	N25
	3191	J 5	9142	M 9
	3192	J 7	9143	L 9
	3193	M 6	9148	B 6
	3194	N 6	9167	D 8
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L	3202	M 8	9190	K26
	3205	L 9	9192	L25
	3206	L 9	9195	M26
	3207	M10	9197	N27
	3208	N10	9263	N22
	3209	N10	9265	M22
	3210	N 9	9268	N24
	3211	C14	9269	N24
M	3215	C14	9270	I23
	3216	B15	9271	J23
	3217	C14	9272	H23
	3218	C15	9273	H26
	3219	C14	9274	G23
	3220	D19	9277	L24
	3222	G20	9278	L24
	3224	D14	9279	E15
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	3232	H20	9656	E26
	3233	H20		
	3234	I15		
	3235	I16		
	3237	I20		
	3238	J19		
	3239	L19		
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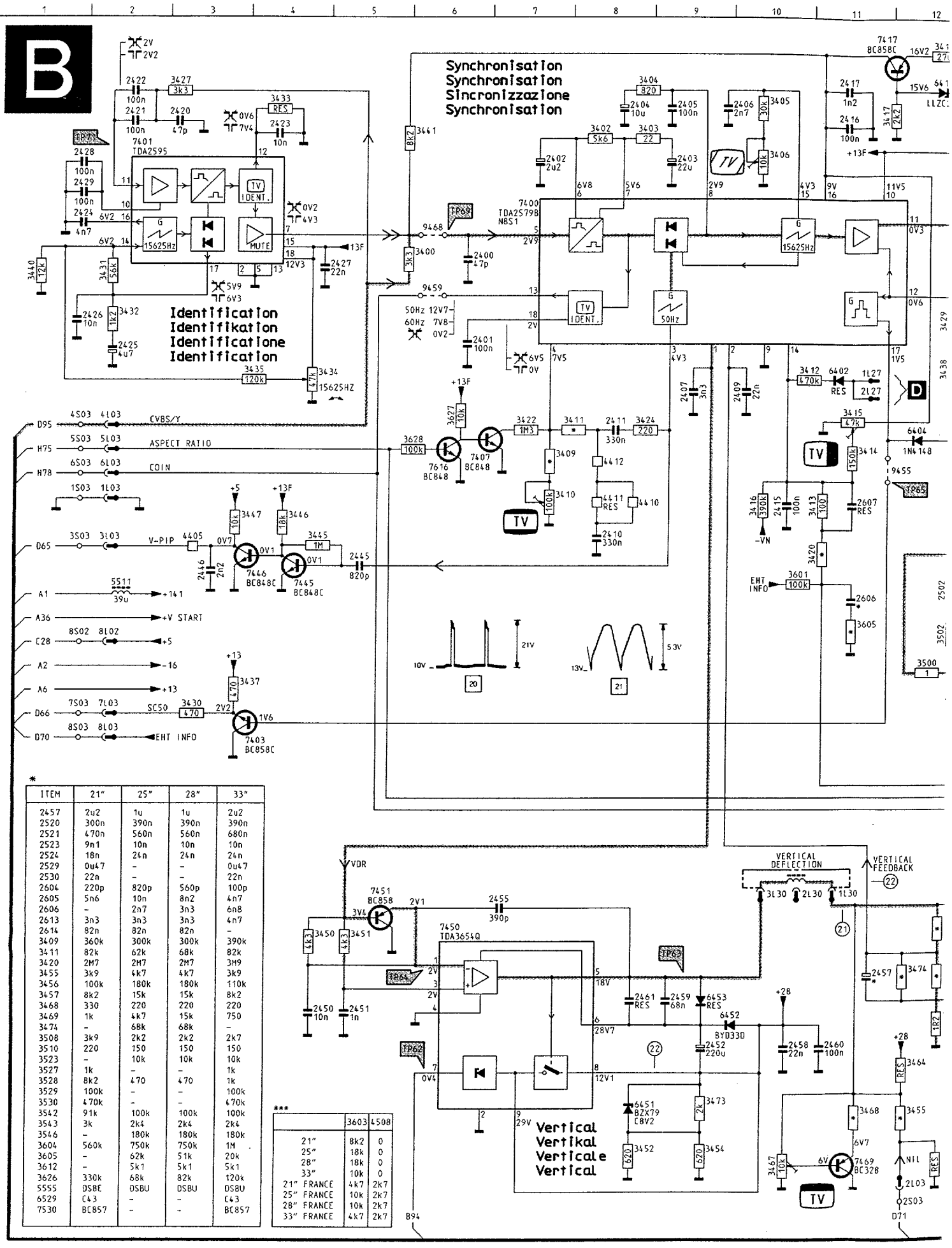
Synchronisation / Synchronisierung / Sync



ITEM	21"	25"	28"	33"
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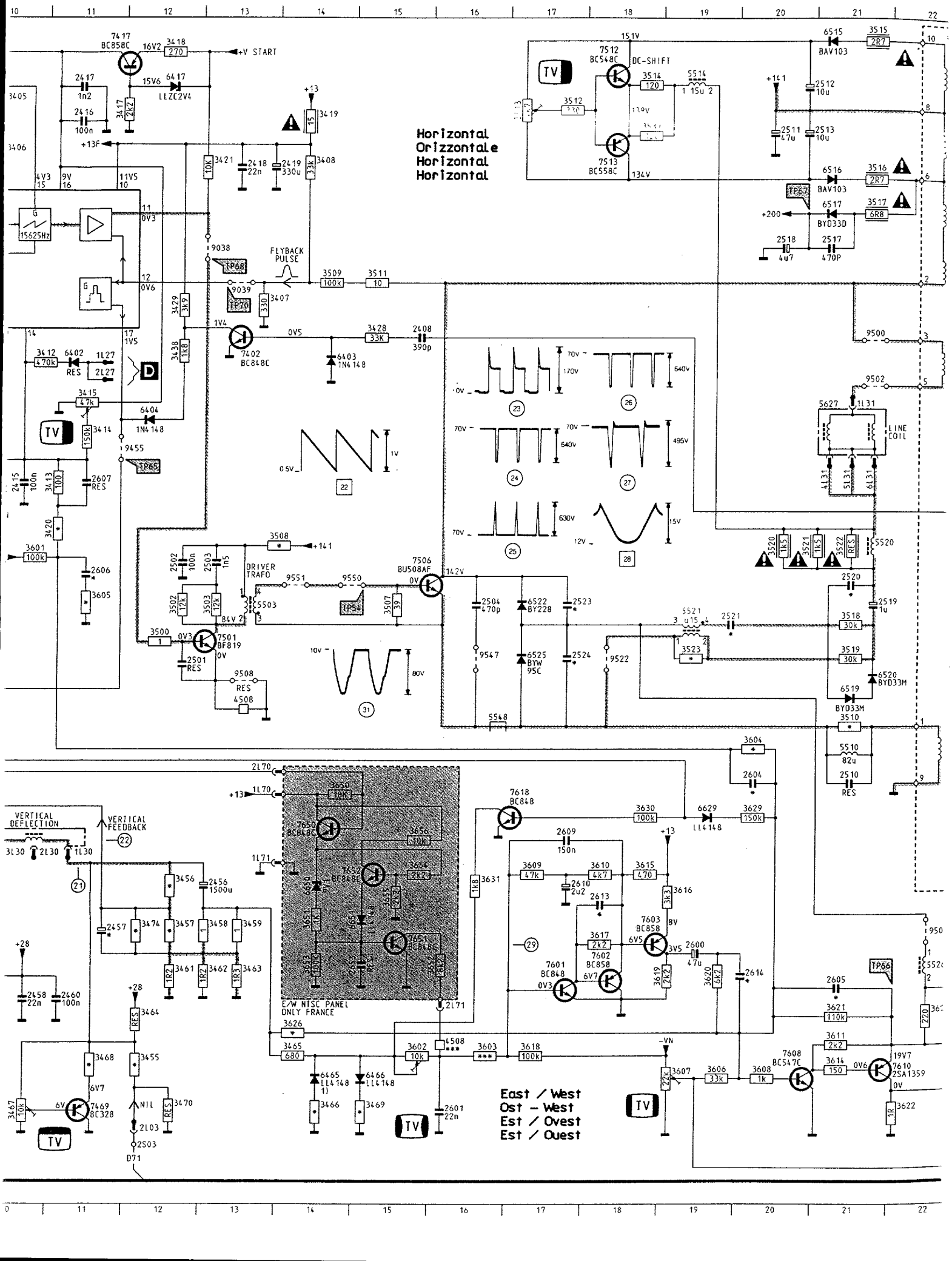
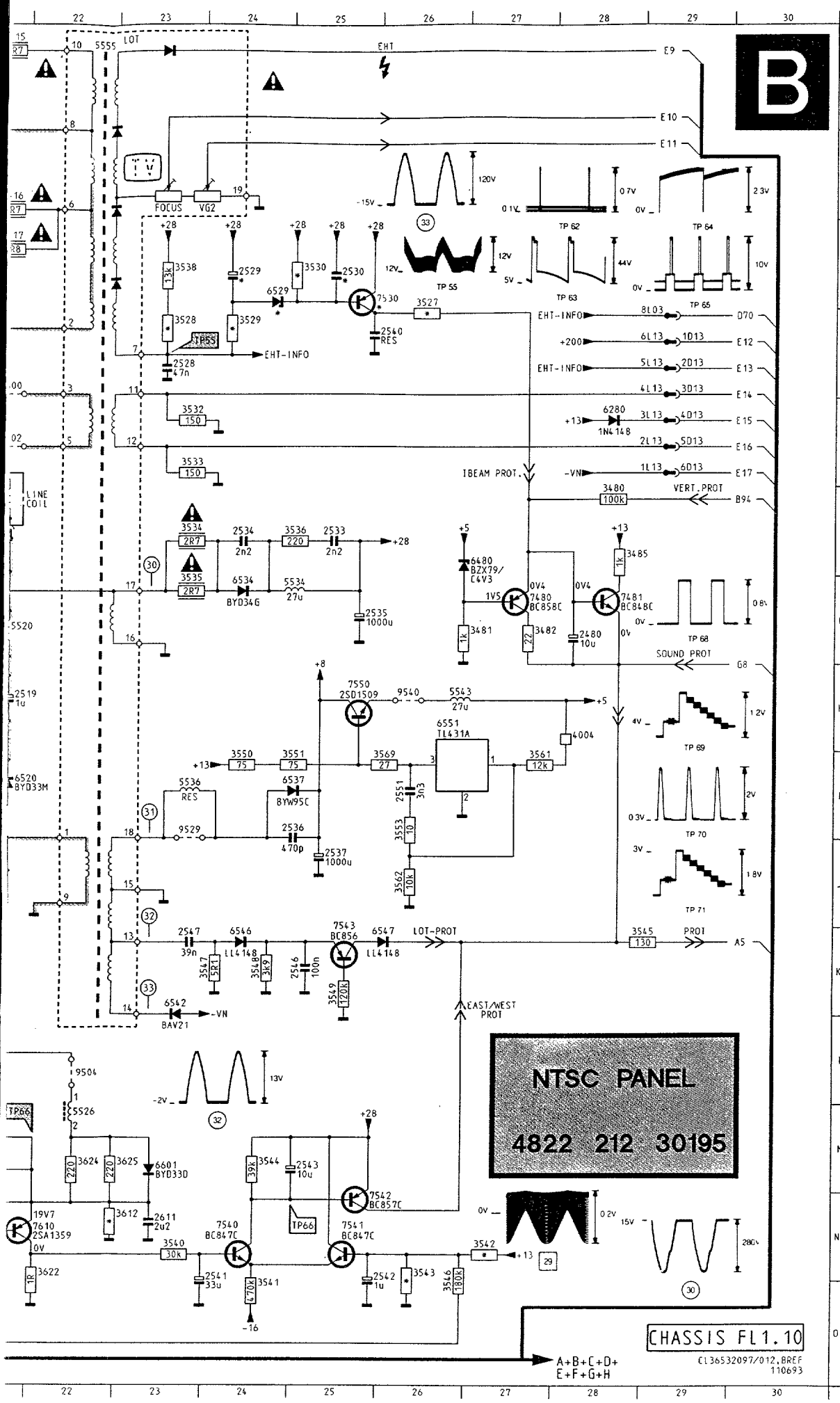
2520	300n	390n	390n	390n
2521	470n	560n	560n	680n
2523	9n1	10n	10n	10n
2524	18n	24n	24n	24n
2529	0u47	-	-	0u47
2530	22n	-	-	22n
2604	220p	820p	560p	100p
2605	5n6	10n	8n2	4n7
2606	-	2n7	3n3	6n8
2613	3n3	3n3	3n3	4n7
2614	82n	82n	82n	-
3409	360k	300k	300k	390k
3411	82k	62k	68k	82k
3420	2M7	2M7	2M7	3M9
3455	3k9	4k7	4k7	3k9
3456	100k	180k	180k	110k
3457	8k2	15k	15k	8k2
3468	330	220	220	220
3469	1k	4k7	15k	750
3474	-	68k	68k	-
3508	3k9	2k2	2k2	2k7
3510	220	150	150	150
3523	-	10k	10k	10k
3527	1k	-	-	1k
3528	8k2	470	470	1k
3529	100k	-	-	100k
3530	470k	-	-	470k
3542	91k	100k	100k	100k
3543	3k	2k4	2k4	2k4
3546	-	180k	180k	180k
3604	560k	750k	750k	1M
3605	-	62k	51k	20k
3612	-	5k1	5k1	5k1
3626	330k	68k	82k	120k
5555	DSBE	DSBU	DSBU	DSBU
6529	C43	-	-	C43
7530	BC857	-	-	BC857

	3603	4508
21"	8k2	0
25"	18k	0
28"	18k	0
33"	10k	0
21" FRANCE	4k7	2k7
25" FRANCE	10k	2k7
28" FRANCE	10k	2k7
33" FRANCE	4k7	2k7

Synchronization





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	2403	B 9	3445	G 4	4508	I 13
A	2404	A 8	3446	F 4	4508	N16
	2405	A 9	3447	F 3	5503	H13
	2406	A 9	3450	L 4	5510	J21
	2407	E 9	3451	L 5	5511	G 2
	2408	D15	3452	N 8	5514	A19
	2409	E10	3454	N 9	5520	G21
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	2411	E 8	3456	K12	5526	M22
B	2415	F10	3457	L12	5534	G25
	2416	B11	3458	L13	5536	I23
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	2418	B13	3461	M12	5548	I 16
	2419	B14	3462	M13	5555	A22
	2420	B 3	3463	M13	5627	E21
	2421	B 2	3464	M12	6280	E28
	2422	A 2	3465	N14	6402	E11
C	2423	B 4	3466	N14	6403	E14
	2424	C 1	3467	N10	6404	E12
	2425	D 2	3468	N11	6417	A12
	2426	D 1	3469	N15	6451	N 8
	2427	C 4	3470	N12	6452	M10
	2428	B 1	3473	N 9	6453	L 9
	2429	B 1	3474	L12	6465	N14
D	2445	G 5	3480	F28	6466	N15
	2446	G 3	3481	G27	6480	F27
	2450	M 4	3482	G27	6515	A21
	2451	M 5	3485	F28	6516	B21
	2452	M 9	3500	H12	6517	C21
	2455	K 7	3502	H12	6519	I21
	2456	L13	3503	H13	6520	I21
	2456	L13	3507	H15	6522	H17
E	2457	L11	3508	G14	6525	I17
	2458	M10	3509	D14	6529	C24
	2459	L 9	3510	I21	6534	G24
	2460	M11	3511	D15	6537	I25
	2461	L 8	3512	A17	6542	K23
	2480	G28	3513	A17	6546	K24
	2501	I12	3514	A18	6547	K26
F	2502	G12	3515	A21	6551	H26
	2503	G13	3516	B21	6601	M23
	2504	H16	3517	C21	6629	K19
	2510	J21	3518	H21	6650	L14
	2511	B20	3519	I21	6651	L15
	2512	A20	3520	G20	7400	C 7
	2513	B20	3521	G20	7401	B 2
	2517	C21	3522	G21	7402	E13
G	2518	C20	3523	I19	7403	I 3
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	2523	H17	3530	C25	7446	G 3
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	2535	G25	3538	C23	7506	G16
	2536	I25	3540	N23	7512	A18
	2537	J25	3541	N24	7513	B18
	2540	D25	3542	N27	7530	C25
I	2541	D24	3543	N26	7540	N24
	2542	D25	3544	M24	7541	N25
	2543	M25	3545	K29	7542	N25
	2546	K25	3546	O26	7543	K25
	2547	K23	3547	K24	7550	H25
	2551	I26	3548	K24	7601	M17
	2600	L19	3549	K25	7602	M18
	2601	N16	3550	I24	7603	L19
J	2604	J20	3551	I25	7608	N20
	2605	M21	3553	I26	7610	N22
	2606	G11	3561	I27	7616	F 6
	2607	F11	3562	J26	7618	J17
	2609	K17	3569	I26	7650	K14
	2610	L17	3601	G10	7651	L15
	2611	N23	3602	N15	7652	K15
K	2613	L18	3603	N16	9038	C13
	2614	M20	3604	J20	9039	D13
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	3400	C 6	3606	N19	9459	D 6
	3402	B 8	3607	N19	9468	C 6
	3403	B 8	3608	N20	9500	D21
	3404	A 8	3609	K17	9502	E21
	3405	A10	3610	K18	9504	L22
L	3406	B10	3611	N21	9508	I13
	3407	D13	3612	N23	9522	I18
	3408	B14	3614	N21	9529	I23
	3409	F 7	3615	K18	9540	H26
	3410	F 7	3616	L19	9547	I16
	3411	E 8	3617	L18	9550	H14
	3412	E10	3618	N17	9551	H14
M	3413	F11	3619	M19		
	3414	F11	3620	M19		
	3415	E11	3621	M21		
	3416	F10	3622	N22		
	3417	A11	3624	M22		
	3418	A12	3625	M23		
	3419	A14	3626	M14		
	3420	G11	3627	E 6		
N	3421	B13	3628	F 6		
	3422	E 7	3629	K20		
	3424	E 8	3630	K18		
	3427	A 3	3631	K16		
	3428	D15	3650	J14		
	3429	D12	3651	L14		
	3430	I 3	3652	M16		
	3431	C 2	3653	M14		
O	3432	D 2	3654	K15		
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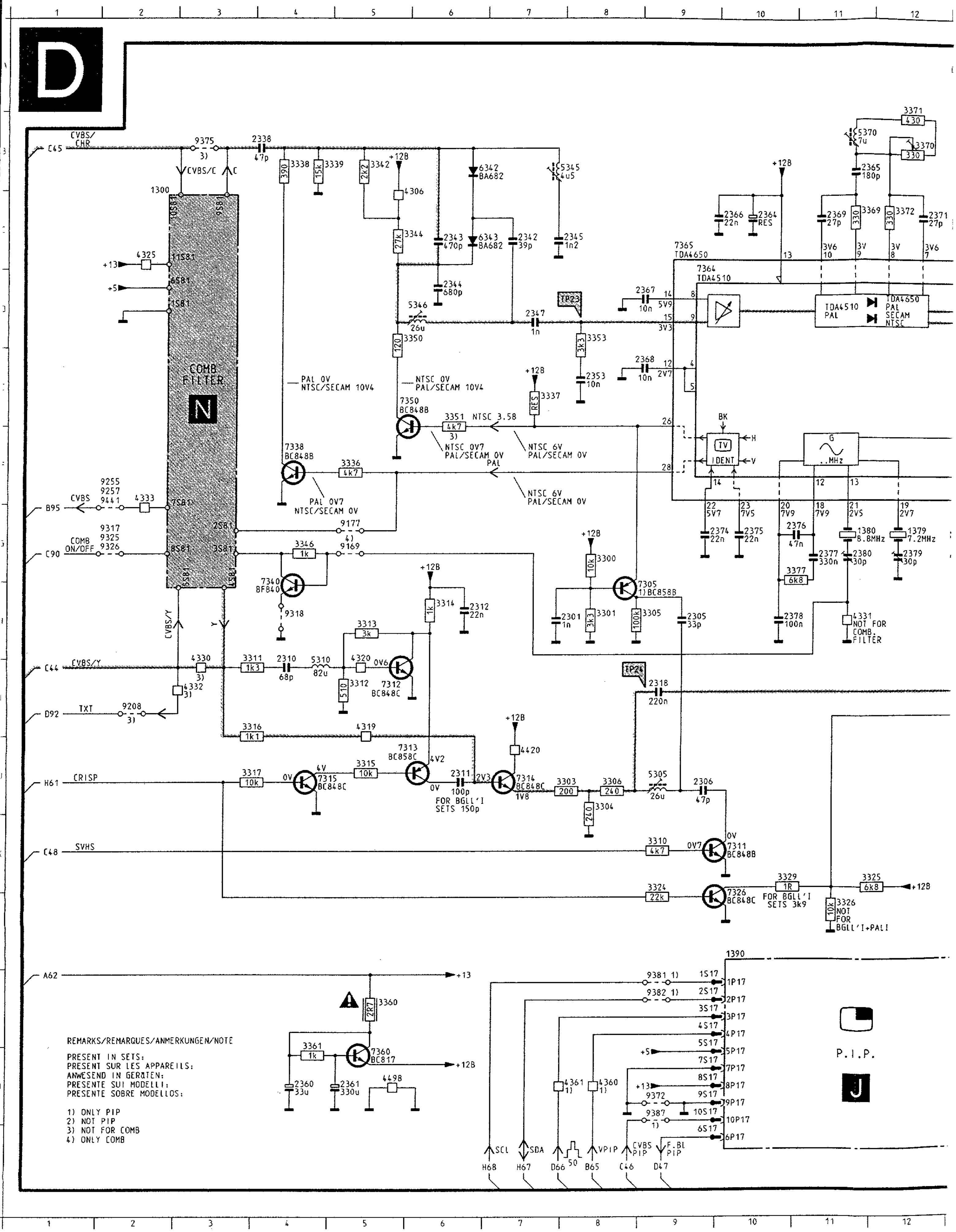
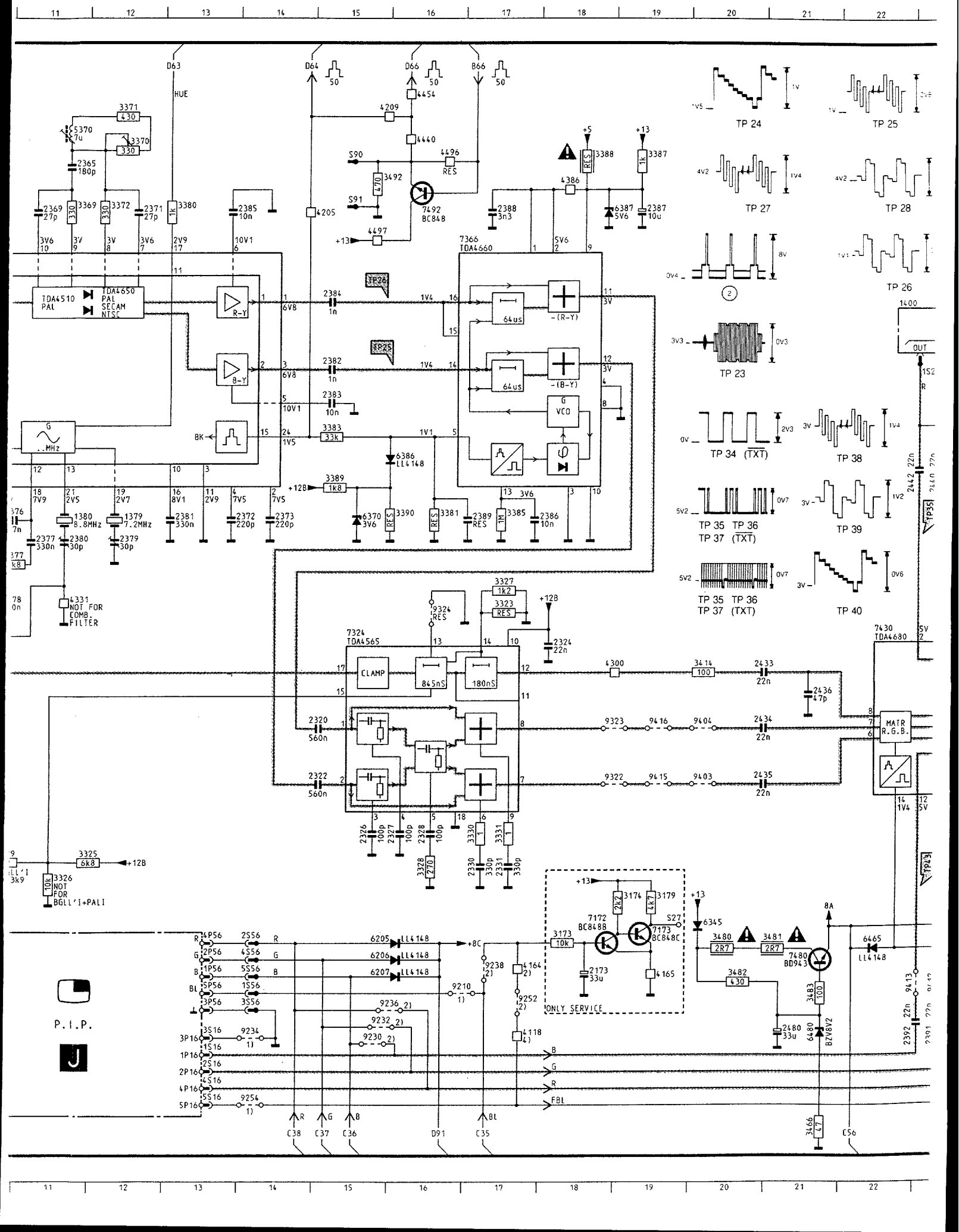


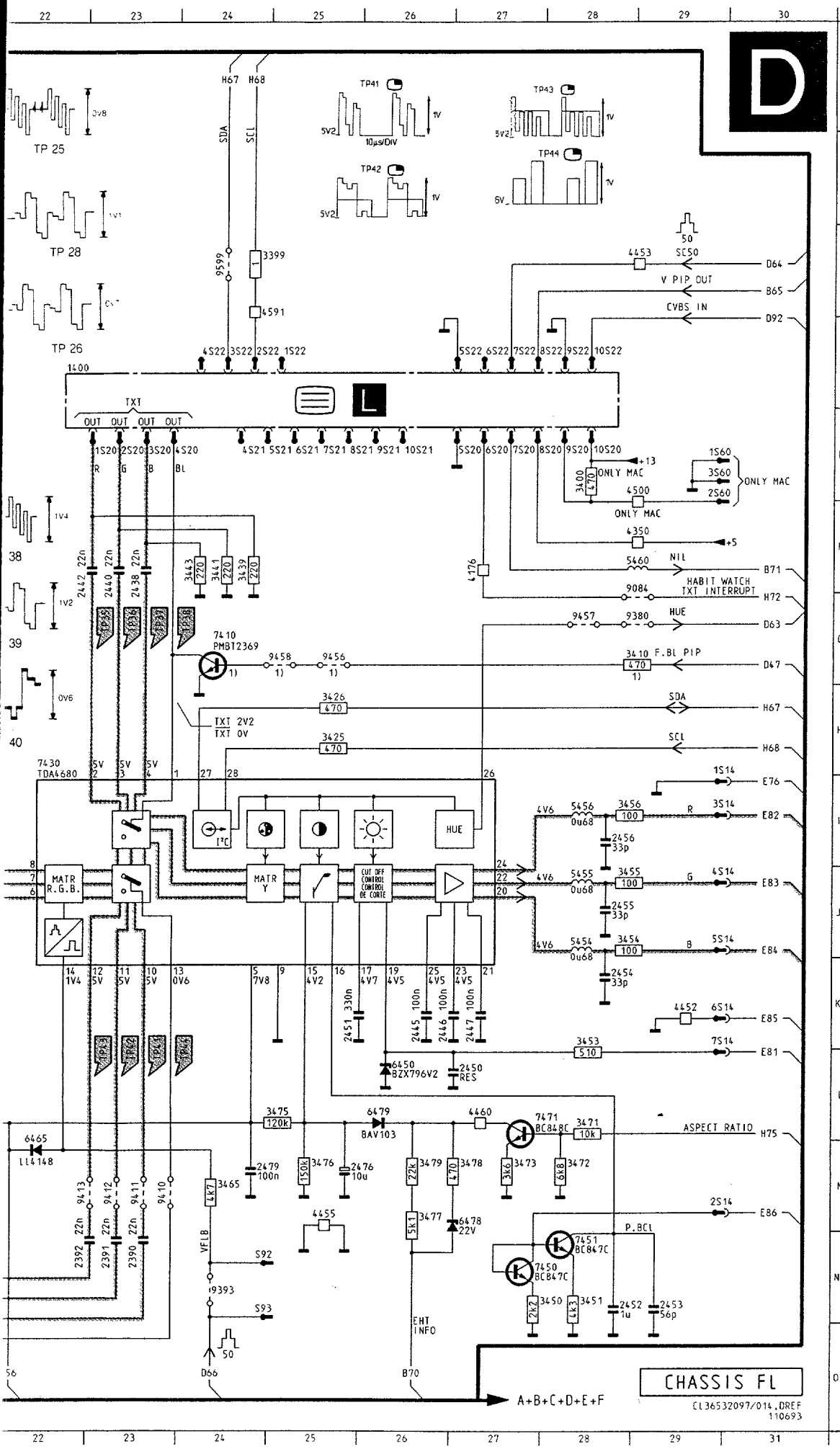
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

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

1) ONLY PIP
2) NOT PIP
3) NOT FOR COMB
4) ONLY COMB

Traitement vidéo





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	1390	L10	3372	C12	7480	M21
A	1400	D22	3377	G11	7492	C16
	2173	M18	3380	C13	9084	F29
	2301	H 7	3381	G16	9169	G 5
	2305	H 9	3383	F15	9177	G 5
	2306	J 9	3385	G17	9208	I 2
	2310	I 4	3387	B19	9210	M16
	2311	J 6	3388	B18	9230	N15
	2312	H 6	3389	F15	9232	N15
B	2318	I 9	3390	G16	9234	N14
	2320	J15	3399	C24	9236	M16
	2322	J15	3400	E28	9238	M17
	2324	I18	3410	G29	9252	M17
	2326	K15	3414	I20	9254	O14
	2327	K16	3425	H25	9255	F 2
	2328	K16	3426	H25	9257	F 2
	2330	L17	3439	F24	9317	G 2
C	2331	L17	3441	F24	9318	H 4
	2338	B 4	3443	F24	9322	J18
	2342	C 7	3450	N27	9323	J18
	2343	C 6	3451	N28	9324	H16
	2344	D 6	3453	K28	9325	G 2
	2345	C 7	3454	J28	9326	G 2
	2347	D 7	3455	J28	9372	N 9
D	2353	E 8	3456	I28	9375	B 3
	2360	N 4	3465	M24	9380	G29
	2361	N 5	3466	O21	9381	M 9
	2364	C10	3471	L28	9382	M 9
	2365	B11	3472	M28	9387	N 9
	2366	C10	3473	M27	9393	N24
	2367	D 9	3475	L25	9403	J20
	2368	E 9	3476	M25	9404	J20
E	2369	C11	3477	M26	9410	M23
	2371	C12	3478	M27	9411	M23
	2372	G13	3479	M26	9412	M23
	2373	G14	3480	L20	9413	M23
	2374	G 9	3481	L21	9415	J19
	2375	G10	3482	M20	9416	J19
	2376	G11	3483	M21	9441	F 2
	2377	G11	3492	B15	9456	G25
F	2378	H10	4118	N17	9457	G28
	2379	G12	4164	M17	9458	G25
	2380	G11	4165	M19	9599	C24
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	2382	E15	4205	C14		
	2383	E15	4209	B15		
	2384	D15	4300	I18		
G	2385	C13	4306	C 5		
	2386	G17	4319	I 5		
	2387	C19	4320	I 5		
	2388	C17	4325	C 2		
	2389	G17	4330	I 3		
	2390	N23	4331	H11		
	2391	N23	4332	I 3		
	2392	N22	4333	F 2		
H	2433	I20	4350	F29		
	2434	J20	4360	N 8		
	2435	J20	4361	N 8		
	2436	I21	4386	B18		
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	2453	N29	4498	N 5		
	2454	K28	4500	E29		
J	2455	J28	4591	C24		
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	2476	M25	5310	I 4		
	2479	M24	5345	B 7		
	2480	N21	5346	D 6		
	3173	L18	5370	B11		
	3174	L19	5454	J28		
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	3300	G 8	5456	I28		
	3301	H 8	5460	F29		
	3303	J 8	6205	M16		
	3304	J 8	6206	M16		
	3305	H 9	6207	M16		
	3306	J 8	6342	B 6		
	3310	K 9	6343	C 6		
L	3311	I 3	6345	L20		
	3312	I 5	6370	G15		
	3313	H 5	6386	F16		
	3314	H 6	6387	C18		
	3315	J 5	6450	L26		
	3316	I 3	6465	M22		
	3317	J 3	6478	M27		
M	3323	H17	6479	L26		
	3324	K 9	6480	N21		
	3325	K12	7172	L18		
	3326	L11	7173	L19		
	3327	H17	7305	H 8		
	3328	L16	7311	K10		
	3329	K10	7312	I 5		
	3330	K17	7313	J 6		
N	3331	K17	7314	J 7		
	3336	F 5	7315	J 4		
	3337	E 7	7324	H15		
	3338	B 4	7326	L10		
	3339	B 4	7338	F 4		
	3342	B 5	7340	H 4		
	3344	C 5	7350	E 5		
	3346	G 4	7360	N 5		
	3350	D 5	7364	D 9		
O	3351	E 6	7365	C 9		
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	3360	M 5	7410	G24		
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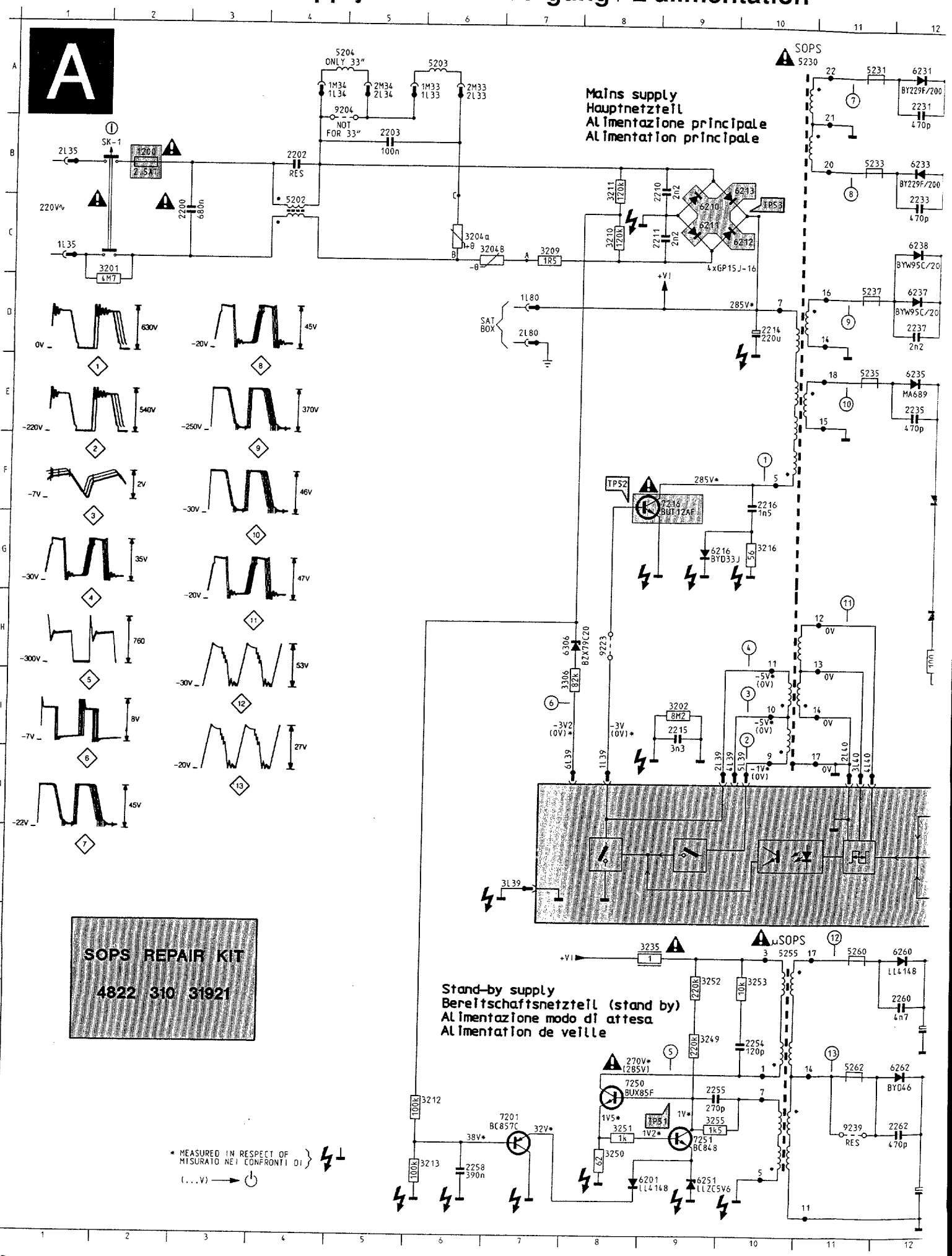
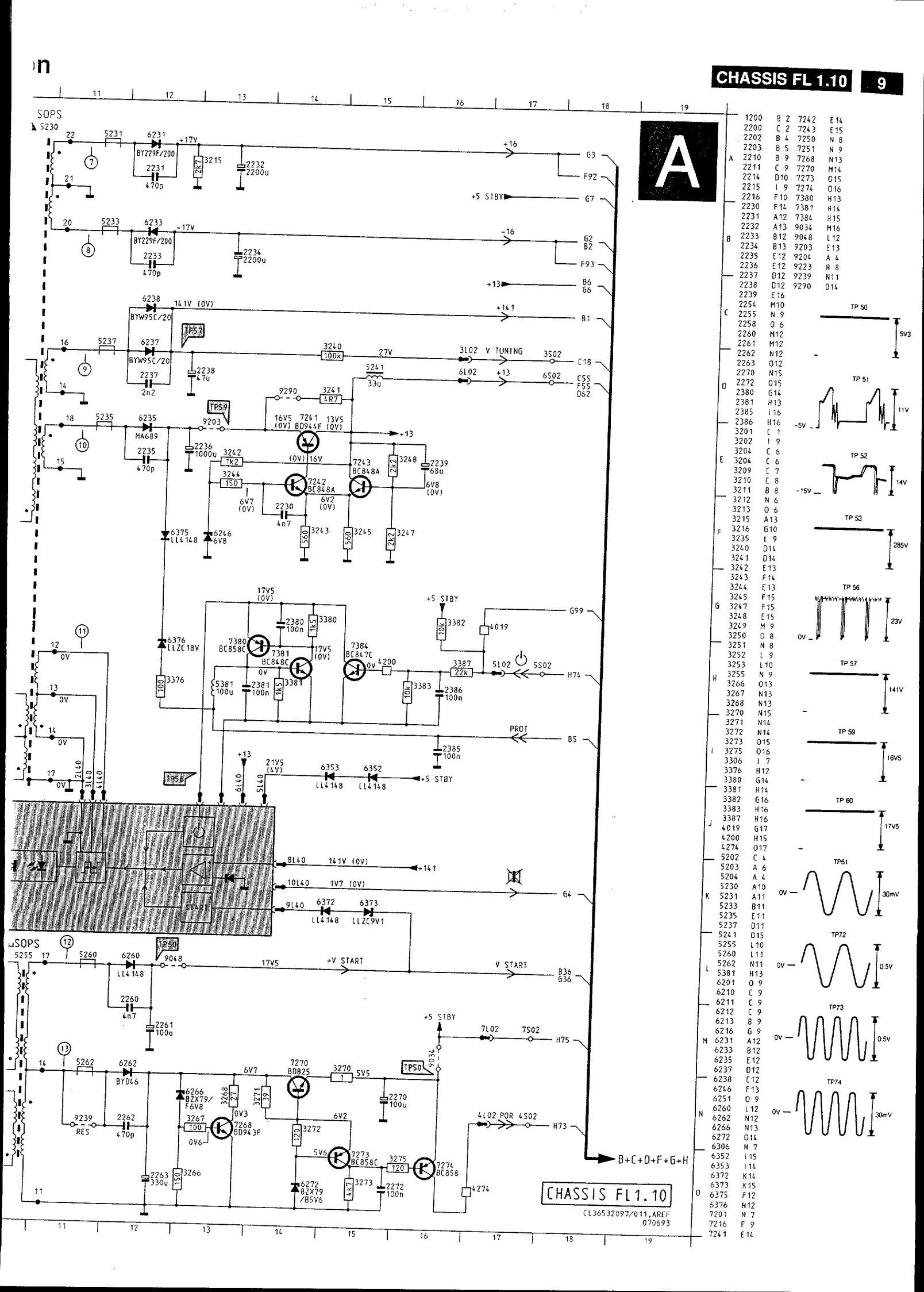
Power supply / Stromversorgung / L'alimentation





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	2200	C 2	7243	E15
	2202	B 4	7250	N 8
	2203	B 5	7251	N 9
A	2210	B 9	7268	N13
	2211	C 9	7270	M14
	2214	D10	7273	O15
	2215	I 9	7274	O16
	2216	F10	7380	H13
	2230	F14	7381	H14
	2231	A12	7384	H15
	2232	A13	9034	M16
B	2233	B12	9048	L12
	2234	B13	9203	E13
	2235	E12	9204	A 4
	2236	E12	9223	H 8
	2237	D12	9239	N11
	2238	D12	9290	D14
	2239	E16		
	2254	M10		
C	2255	N 9		
	2258	O 6		
	2260	M12		
	2261	M12		
	2262	N12		
	2263	O12		
	2270	N15		
D	2272	O15		
	2380	G14		
	2381	H13		
	2385	I16		
	2386	H16		
	3201	C 1		
	3202	I 9		
	3204	C 6		
E	3204	C 6		
	3209	C 7		
	3210	C 8		
	3211	B 8		
	3212	N 6		
	3213	O 6		
	3215	A13		
F	3216	G10		
	3235	L 9		
	3240	D14		
	3241	D14		
	3242	E13		
	3243	F14		
	3244	E13		
	3245	F15		
G	3247	F15		
	3248	E15		
	3249	M 9		
	3250	O 8		
	3251	N 8		
	3252	L 9		
	3253	L10		
	3255	N 9		
H	3266	O13		
	3267	N13		
	3268	N13		
	3270	N15		
	3271	N14		
	3272	N14		
	3273	O15		
I	3275	O16		
	3306	I 7		
	3376	H12		
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	3381	H14		
	3382	G16		
	3383	H16		
	3387	H16		
J	4019	G17		
	4200	H15		
	4274	O17		
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K	5231	A11		
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	5235	E11		
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	5255	L10		
	5260	L11		
L	5262	N11		
	5381	H13		
	6201	O 9		
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	6211	C 9		
	6212	C 9		
	6213	B 9		
	6216	G 9		
M	6231	A12		
	6233	B12		
	6235	E12		
	6237	D12		
	6238	C12		
	6246	F13		
	6251	O 9		
N	6260	L12		
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	6266	N13		
	6272	O14		
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	6353	I14		
	6372	K14		
	6373	K15		
O	6375	F12		
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	7201	N 7		
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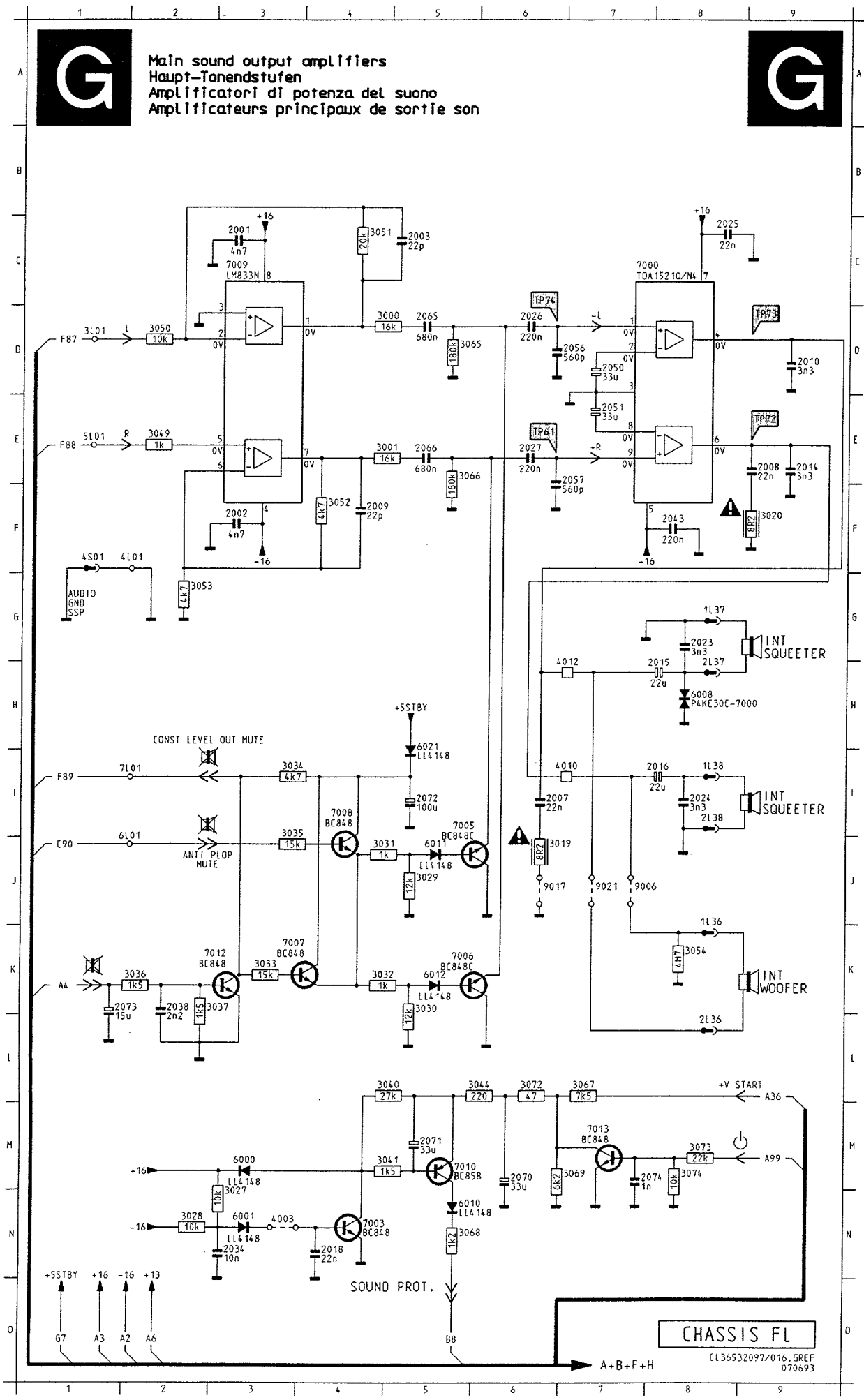
	7241	E14		

Audio amplification / Tonsignal Verstärker / Amplificateur audio



2001 C 3
2002 F 3
2003 C 5
2007 I 6
2008 E 9
2009 F 4
2010 D 9
2014 E 9
2015 H 8
2016 I 8
2018 N 4
2023 G 8
2024 I 8
2025 C 8
2026 D 6
2027 E 6
2034 N 3
2038 K 2
2043 F 8
2050 D 7
2051 E 7
2056 D 6
2057 F 6
2065 D 5
2066 E 5
2070 M 6
2071 M 5
2072 I 5
2073 K 1
2074 M 7
3000 D 4
3001 E 4
3019 J 6
3020 F 9
3027 M 3
3028 N 2
3029 J 5
3030 K 5
3031 J 4
3032 K 4
3033 K 3
3034 I 3
3035 J 3
3036 K 2
3037 K 2
3040 L 5
3041 M 5
3044 L 6
3049 E 2
3050 D 2
3051 C 4
3052 F 4
3053 G 2
3054 K 8
3065 D 5
3066 E 5
3067 L 7
3068 N 5
3069 M 7
3072 L 6
3073 M 8
3074 M 8
4003 N 3
4010 I 7
4012 H 7
6000 M 3
6001 N 3
6008 H 8
6010 N 5
6011 J 5
6012 K 5
6021 I 5
7000 C 7
7003 N 4
7005 I 5
7006 K 5
7007 K 3
7008 I 4
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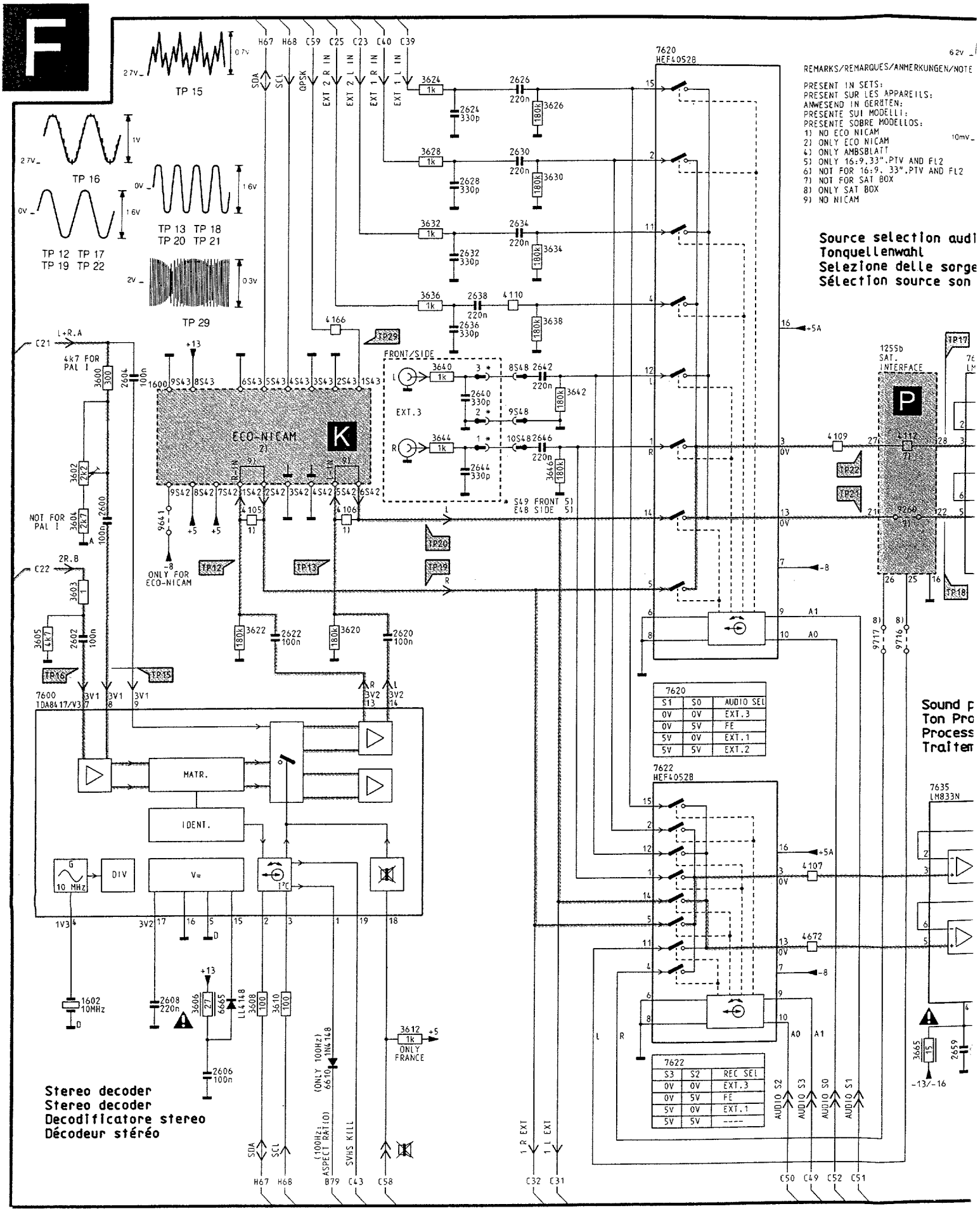
7010 M 5
7012 K 2
7013 M 7
9006 J 7
9013 L 7
9017 J 6
9021 J 7

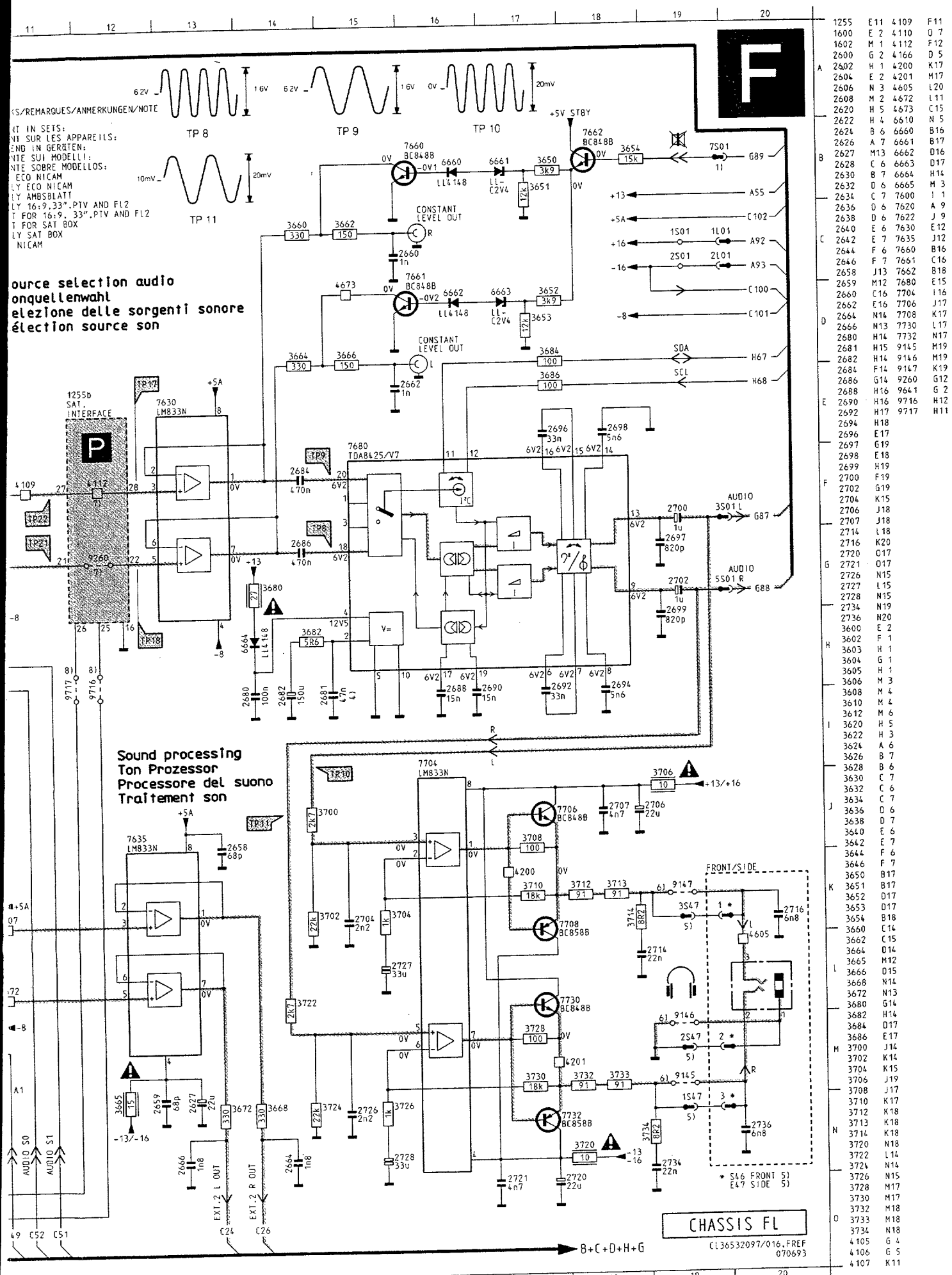
F



S1	S0	AUDIO SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	EXT.2

S3	S2	REC SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	----

Traitement audio



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	1602	M 1	4112	F12
	2600	G 2	4166	D 5
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	2604	E 2	4201	M17
	2606	N 3	4605	L20
	2608	M 2	4672	L11
	2620	H 5	4673	C15
	2622	H 4	6610	N 5
	2624	B 6	6660	B16
	2626	A 7	6661	B17
	2627	M13	6662	D16
B	2628	C 6	6663	D17
	2630	B 7	6664	H14
	2632	D 6	6665	M 3
	2634	C 7	7600	I 1
	2636	D 6	7620	A 9
	2638	D 6	7622	J 9
	2640	E 6	7630	E12
C	2642	E 7	7635	J12
	2644	F 6	7660	B16
	2646	F 7	7661	C16
	2658	J13	7662	B18
	2659	M12	7680	E15
	2660	C16	7704	I16
	2662	E16	7706	J17
	2664	N14	7708	K17
D	2666	N13	7730	L17
	2680	H14	7732	N17
	2681	H15	9145	M19
	2682	H14	9146	M19
	2684	F14	9147	K19
	2686	G14	9260	G12
	2688	H16	9641	G 2
E	2690	H16	9716	H12
	2692	H17	9717	H11
	2694	H18		
	2696	E17		
	2697	G19		
	2698	E18		
	2699	H19		
	2700	F19		
F	2702	G19		
	2704	K15		
	2706	J18		
	2707	J18		
	2714	L18		
	2716	K20		
	2720	O17		
G	2721	O17		
	2726	N15		
	2727	L15		
	2728	N15		
	2734	N19		
	2736	N20		
	3600	E 2		
	3602	F 1		
H	3603	H 1		
	3604	G 1		
	3605	H 1		
	3606	M 3		
	3608	M 4		
	3610	M 4		
	3612	M 6		
I	3620	H 5		
	3622	H 3		
	3624	A 6		
	3626	B 7		
	3628	B 6		
	3630	C 7		
	3632	C 6		
	3634	C 7		
J	3636	D 6		
	3638	D 7		
	3640	E 6		
	3642	E 7		
	3644	F 6		
	3646	F 7		
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K	3651	B17		
	3652	D17		
	3653	D17		
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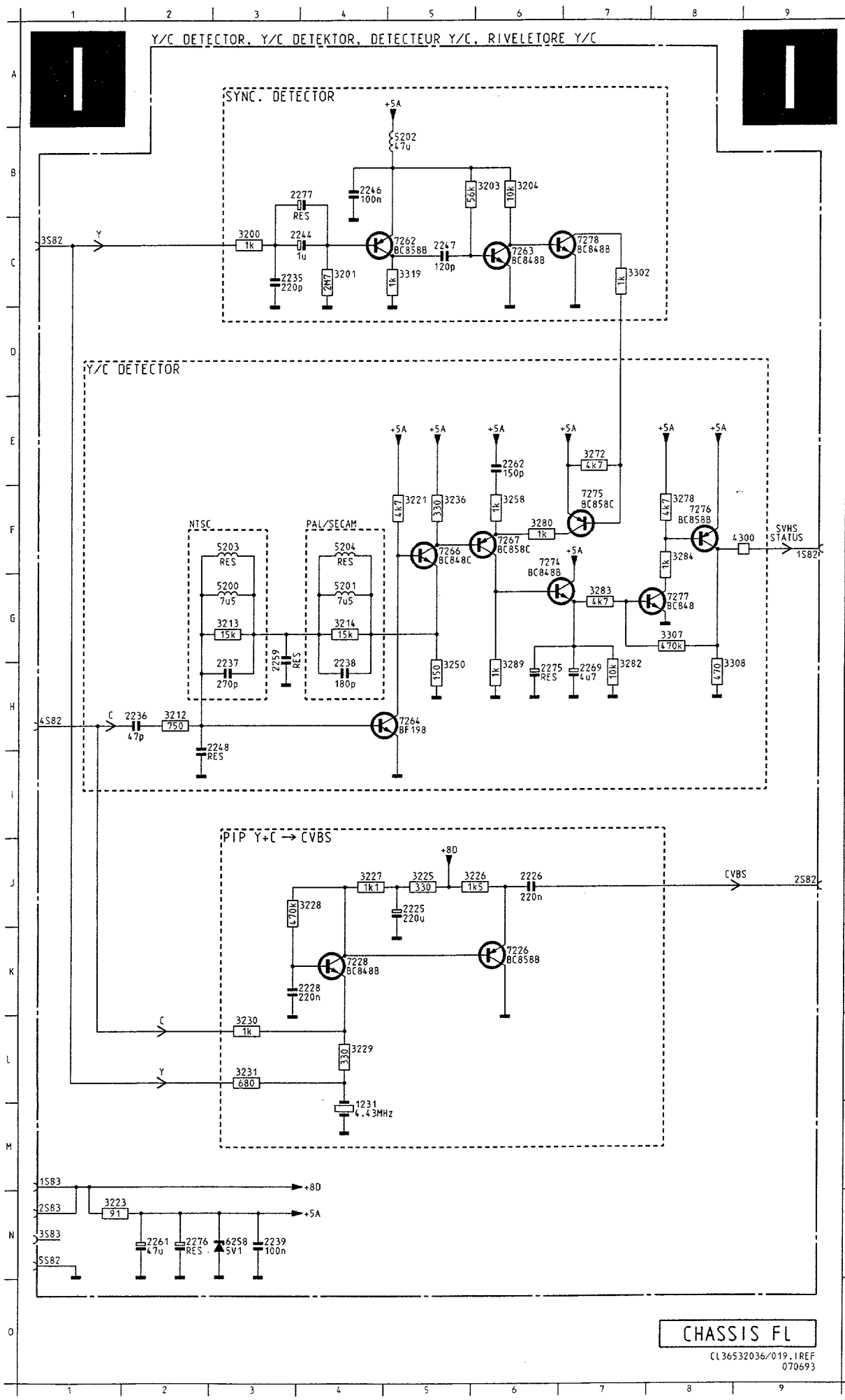
	3704	K15		
	3706	J19		
	3708	J17		
	3710	K17		
	3712	K18		
	3713	K18		
N	3714	K18		
	3720	N18		
	3722	L14		
	3724	N14		
	3726	N15		
	3728	M17		
	3730	M17		
	3732	M18		
O	3733	M18		
	3734	N18		
	4105	G 4		
	4106	G 5		
	4107	K11		

Y - C Detector / Y - C Detektor / Détecteur Y - C



09 F11
10 D 7
12 F12
66 D 5
00 K17
01 M17
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63 D17
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22 J 9
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60 B16
61 C16
62 B18
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06 J17
08 K17
30 L17
32 N17
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46 M19
47 K19
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41 G 2
16 H12
17 H11

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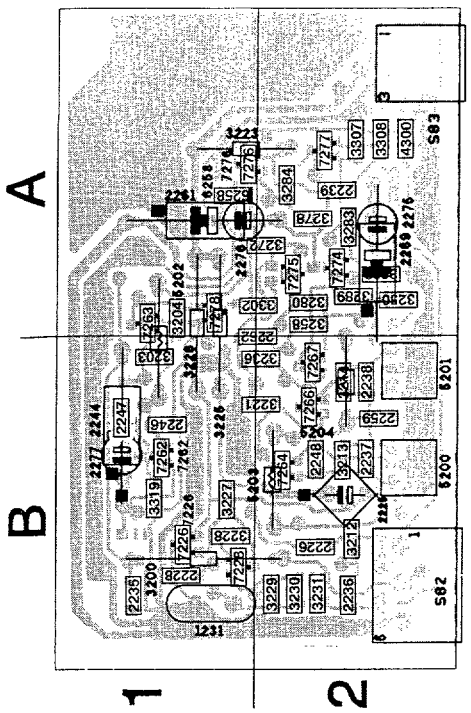

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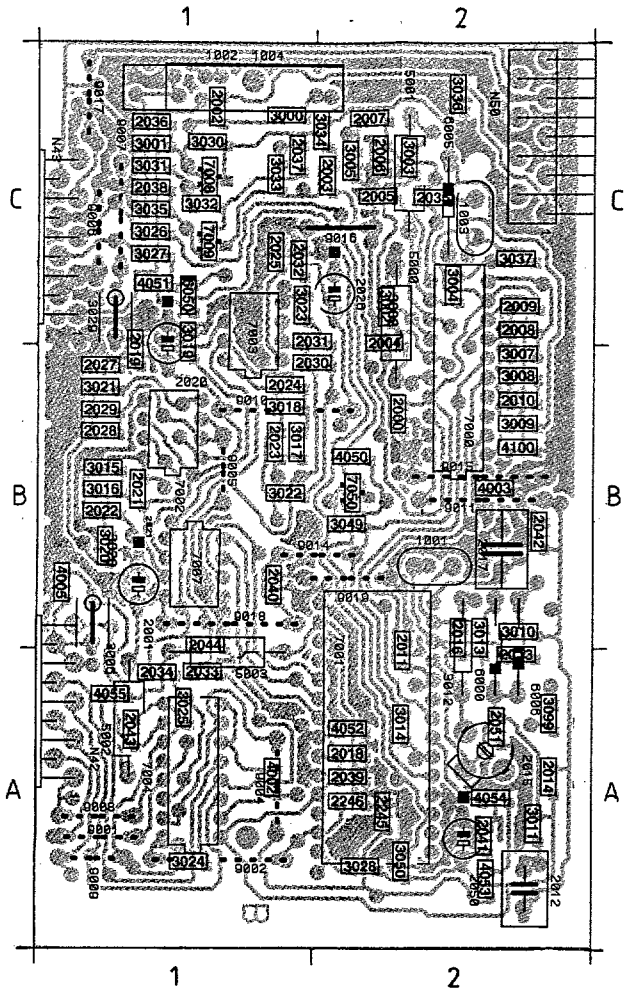

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2001	B1	2026	C2	3002	C2	3027	C1	5001	C2	9011	B2
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2003	C2	2028	B1	3004	C2	3029	C1	5003	A1	9015	B2
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2005	C2	2030	B2	3006	B1	3031	C1	6005	C2	9017	C1
2006	C2	2031	B2	3007	B2	3032	C1	6006	A2	9018	B1
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2015	A2	2040	B1	3016	B1	4002	A1	7009	C1		
2016	A2	2041	A2	3017	B1	4003	B2	7050	B2		
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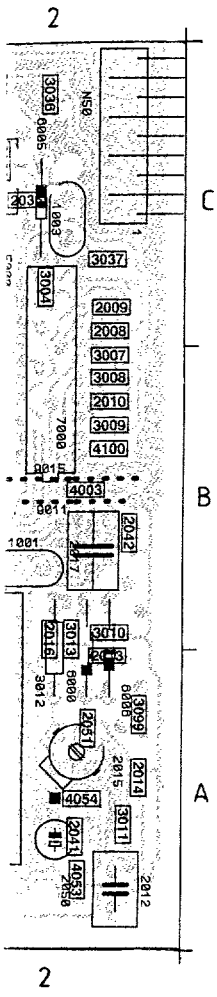

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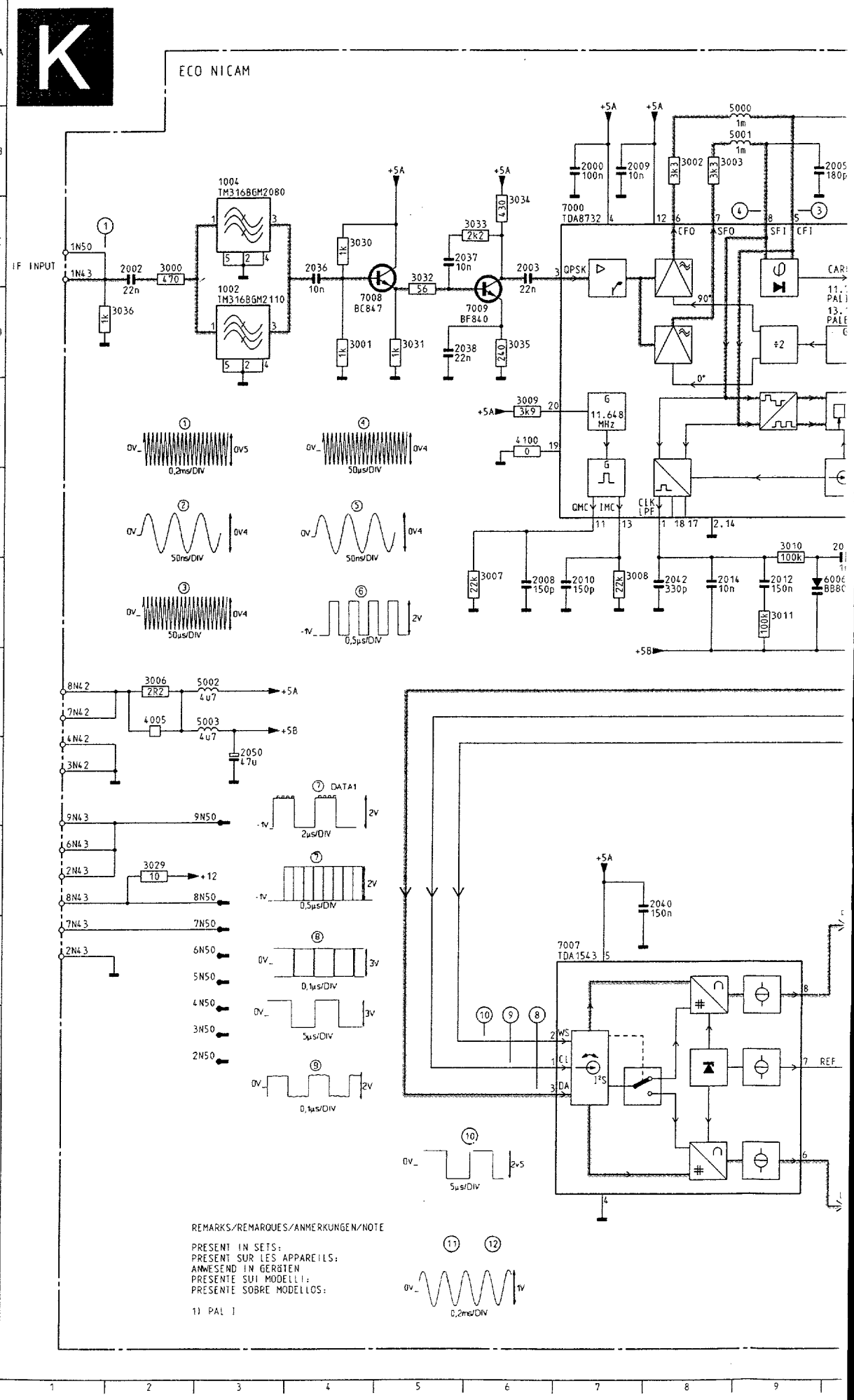

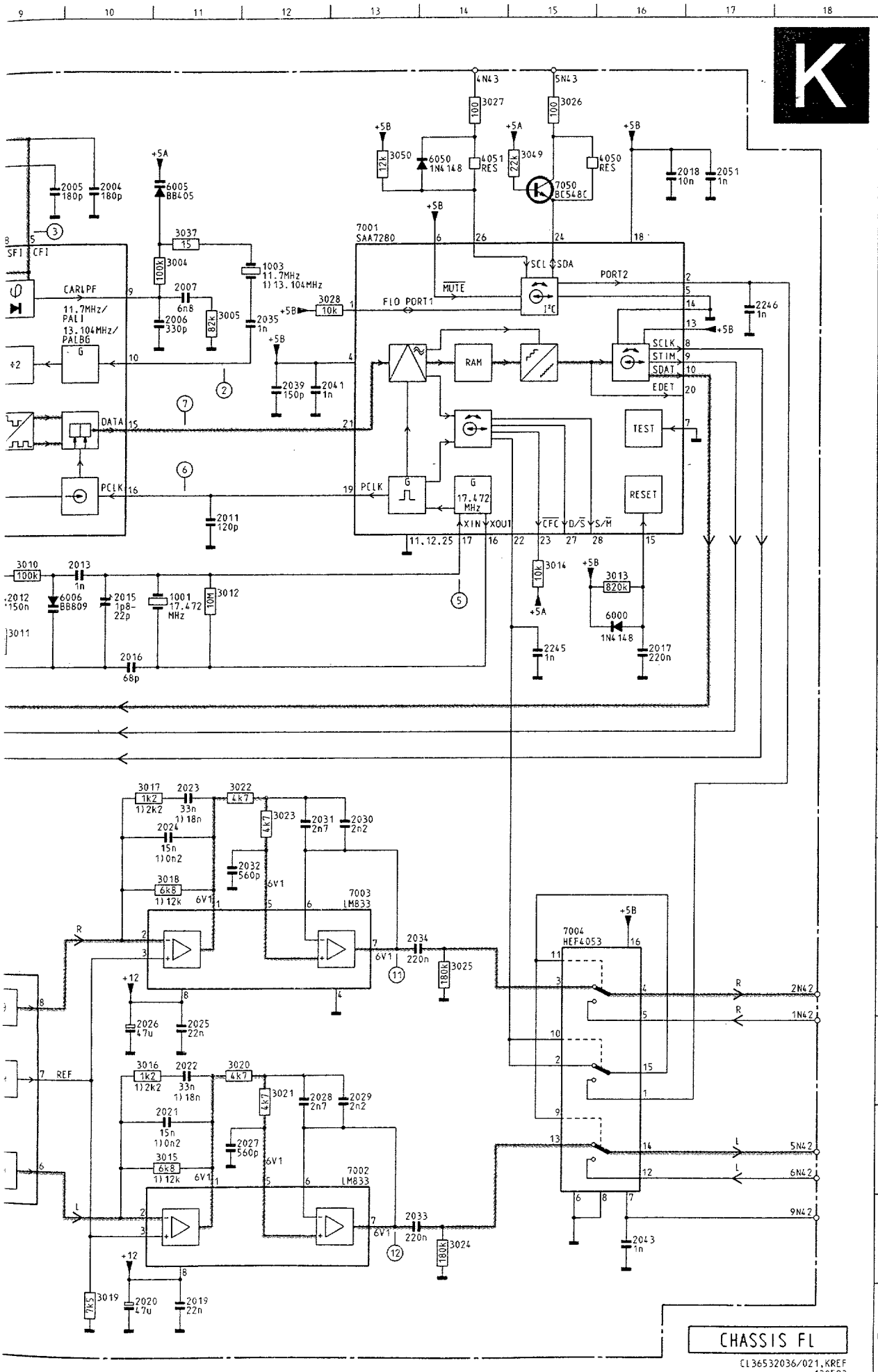

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B 2009	B 7	
2010	G 7	
2011	F11	
2012	G 9	
2013	F10	
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G 2246	D17	
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1212	B4	2
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1600	B5	2
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1003	C12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B10
2005	B 9
2006	D11
2007	C11
2008	G 6
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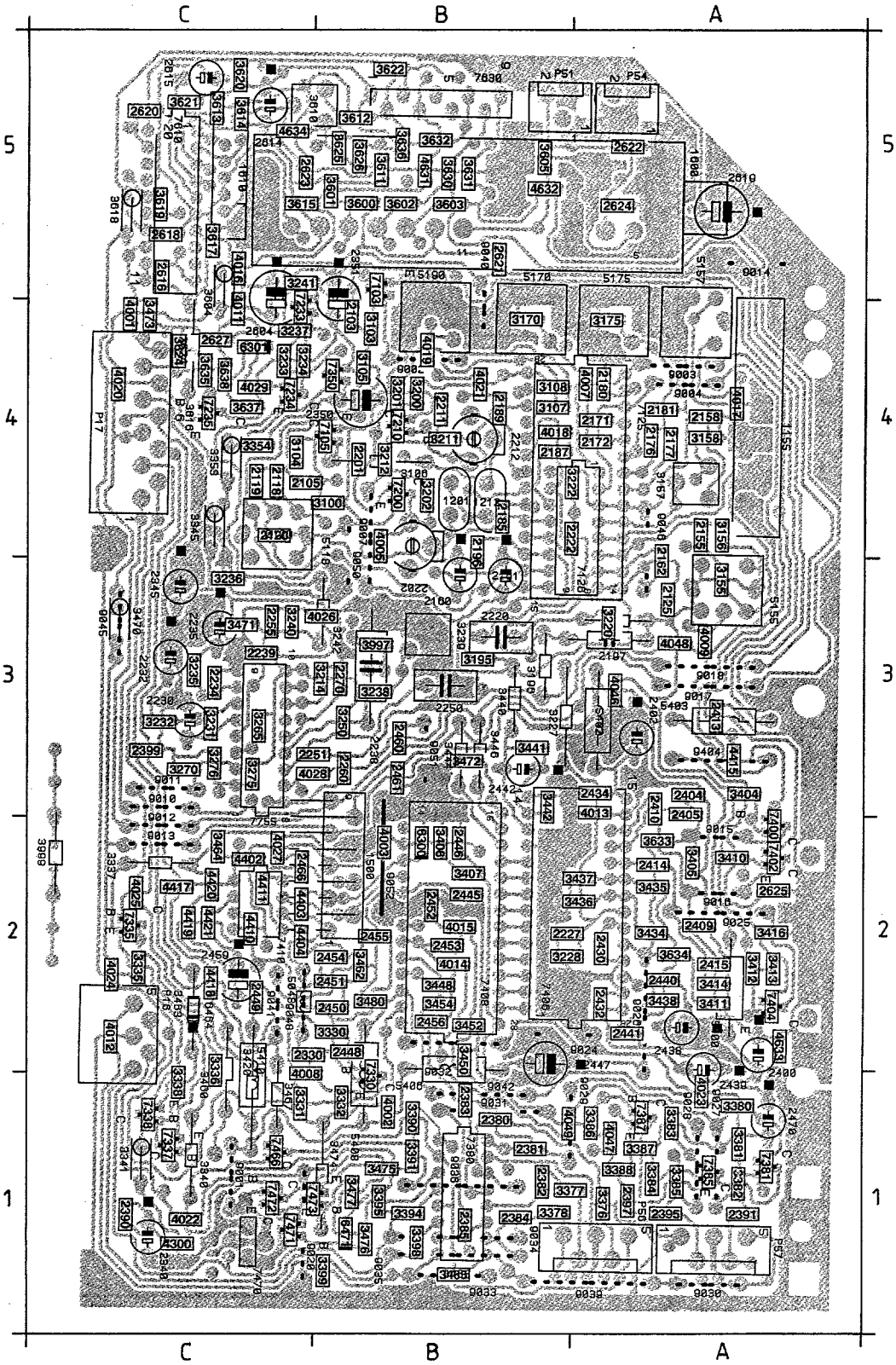

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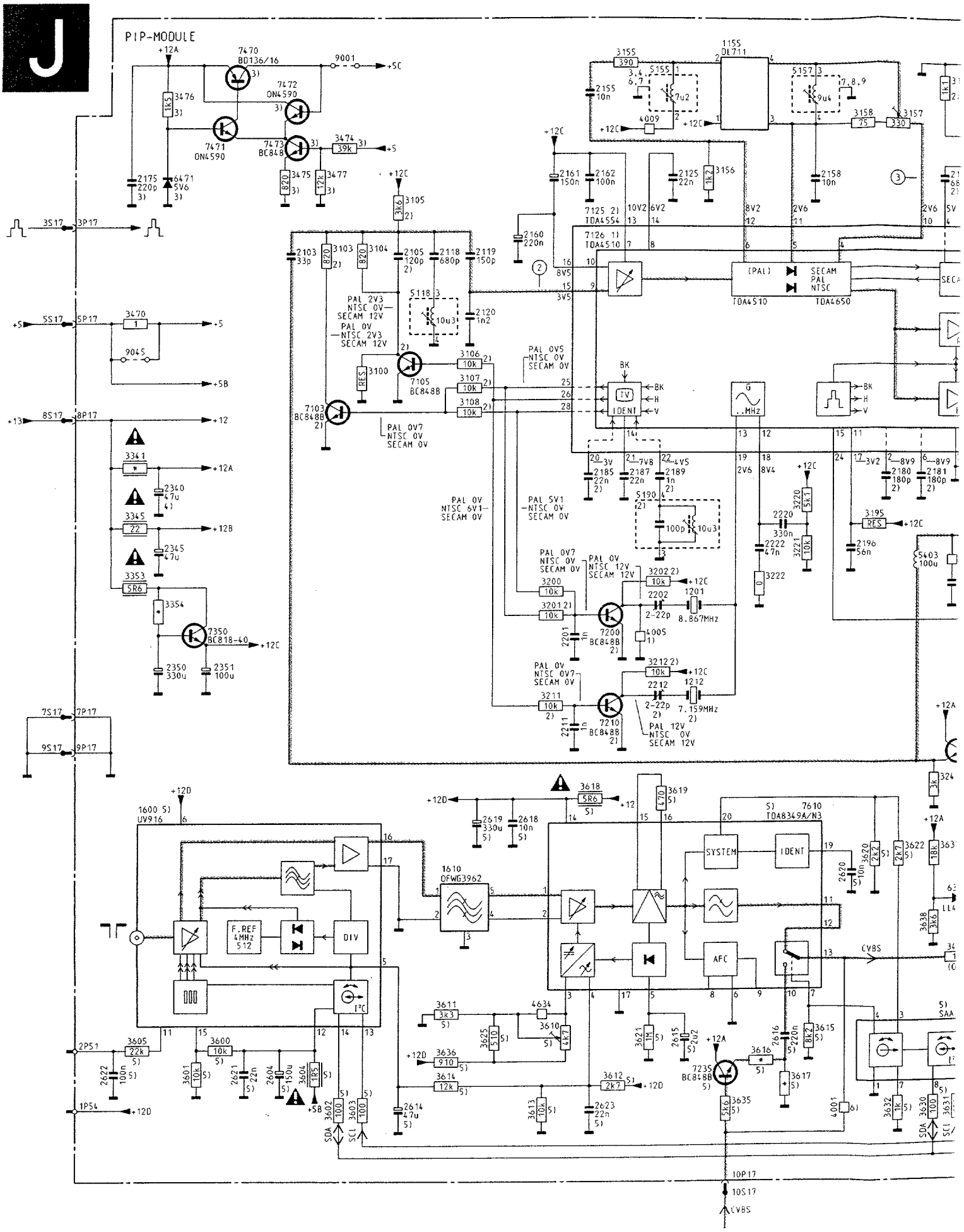

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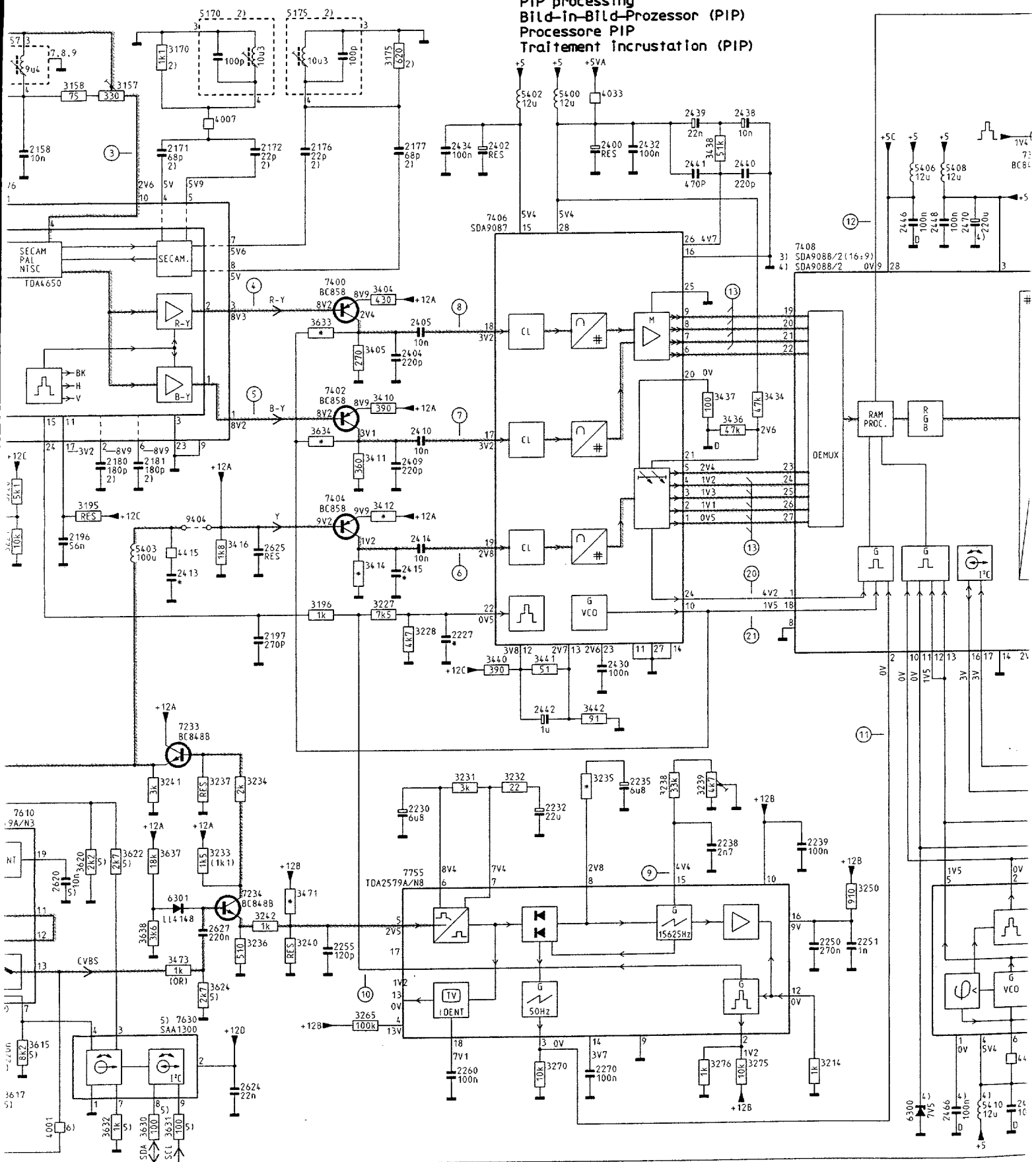
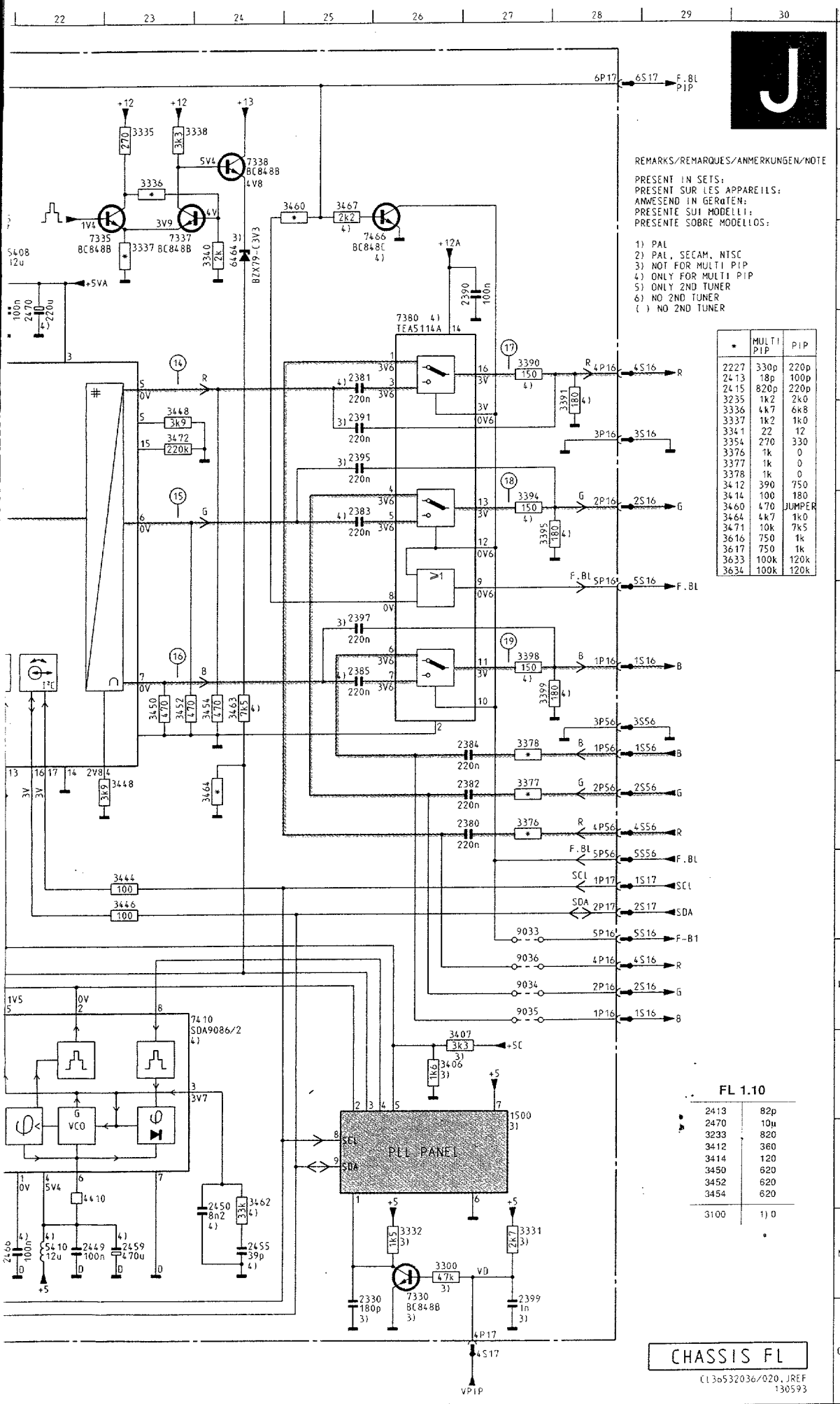
PIP processing
Bild-in-Bild-Prozessor (PIP)
Processore PIP
Traitement incrustation (PIP)





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2413	18p	100p
2415	820p	220p
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3336	4k7	6k8
3337	1k2	1k0
3341	22	12
3354	270	330
3376	1k	0
3377	1k	0
3378	1k	0
3412	390	750
3414	100	180
3460	470	JUMPER
3464	4k7	1k0
3471	10k	7k5
3616	750	1k
3617	750	1k
3633	100k	120k
3634	100k	120k

FL 1.10

2413	82p
2470	10µ
3233	820
3412	360
3414	120
3450	620
3452	620
3454	620
3100	1) 0

CHASSIS FL

CL13a532036/020, JREF 130593

1155	A 9	3201	H 7	4007	B13
1201	H 9	3202	G 9	4009	B 8
1212	I 9	3211	I 7	4033	B17
1500	L27	3212	I 9	4410	M22
1600	J 2	3214	M20	4415	G12
1610	K 6	3220	G10	4634	M 7
2103	D 4	3221	G10	5118	D 5
2105	D 5	3222	G10	5155	A 8
2118	D 6	3227	H15	5157	A10
2119	D 6	3228	H15	5170	A13
2120	D 6	3231	J16	5175	A14
2125	C 9	3232	J16	5190	G 8
2155	B 8	3233	K13	5400	B17
2158	C11	3234	J13	5402	B16
2160	C 7	3235	J17	5403	G12
2161	C 7	3236	L13	5406	C21
2162	C 8	3237	J13	5408	C21
2171	C12	3238	J18	5410	N22
2172	C13	3239	J19	6300	N21
2175	C 2	3240	L14	6301	K12
2176	C14	3241	J12	6464	C24
2177	E15	3242	L13	6471	C 3
2180	F11	3250	K20	7103	E 4
2181	F12	3265	M15	7105	E 5
2185	F 8	3270	M17	7125	C 8
2187	F 8	3275	M19	7126	C 8
2189	F 9	3276	M19	7200	H 8
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2201	H 7	3332	N26	7234	K13
2202	H 9	3335	A23	7235	N 9
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2212	I 9	3337	C23	7335	C23
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2227	H16	3341	F 2	7350	H 3
2230	J15	3345	G 2	7380	D26
2232	J17	3353	G 2	7400	D14
2235	J18	3354	H 2	7402	E14
2238	K19	3376	I27	7404	G14
2239	K20	3377	I27	7406	C16
2250	L20	3378	H27	7408	D20
2251	L20	3390	D27	7410	K23
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2380	I27	3407	L26	9001	A 5
2381	D25	3410	F15	9033	J27
2382	I27	3411	F15	9034	K27
2383	F25	3412	G15	9035	K27
2384	H27	3414	G15	9036	K27
2385	H25	3416	G13	9045	E 2
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2400	C17	3441	I17		
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2455	N24	3477	B 4		
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2604	N 4	3603	N 5		
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6471	C 3
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7404	G14
7406	C16
7408	D20
7410	K23
7466	C26
7470	A 3
7471	B 3
7472	A 4
7473	B 4
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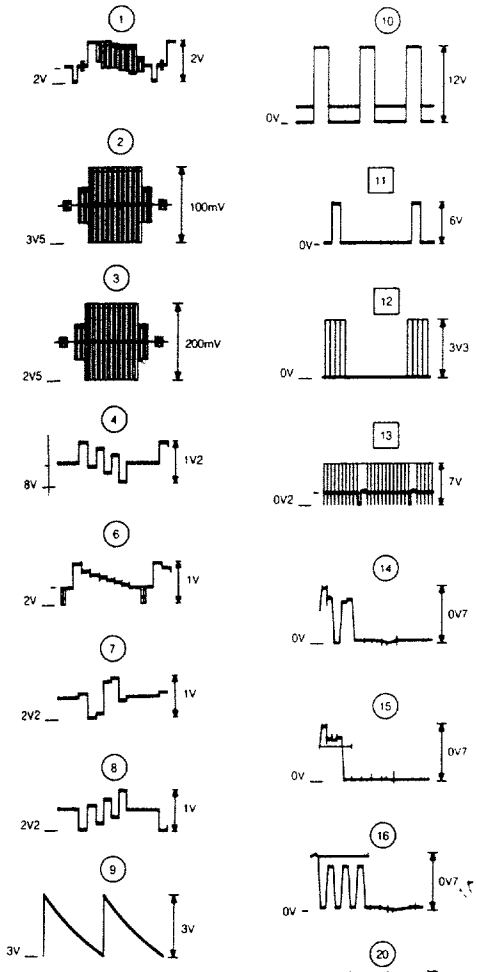
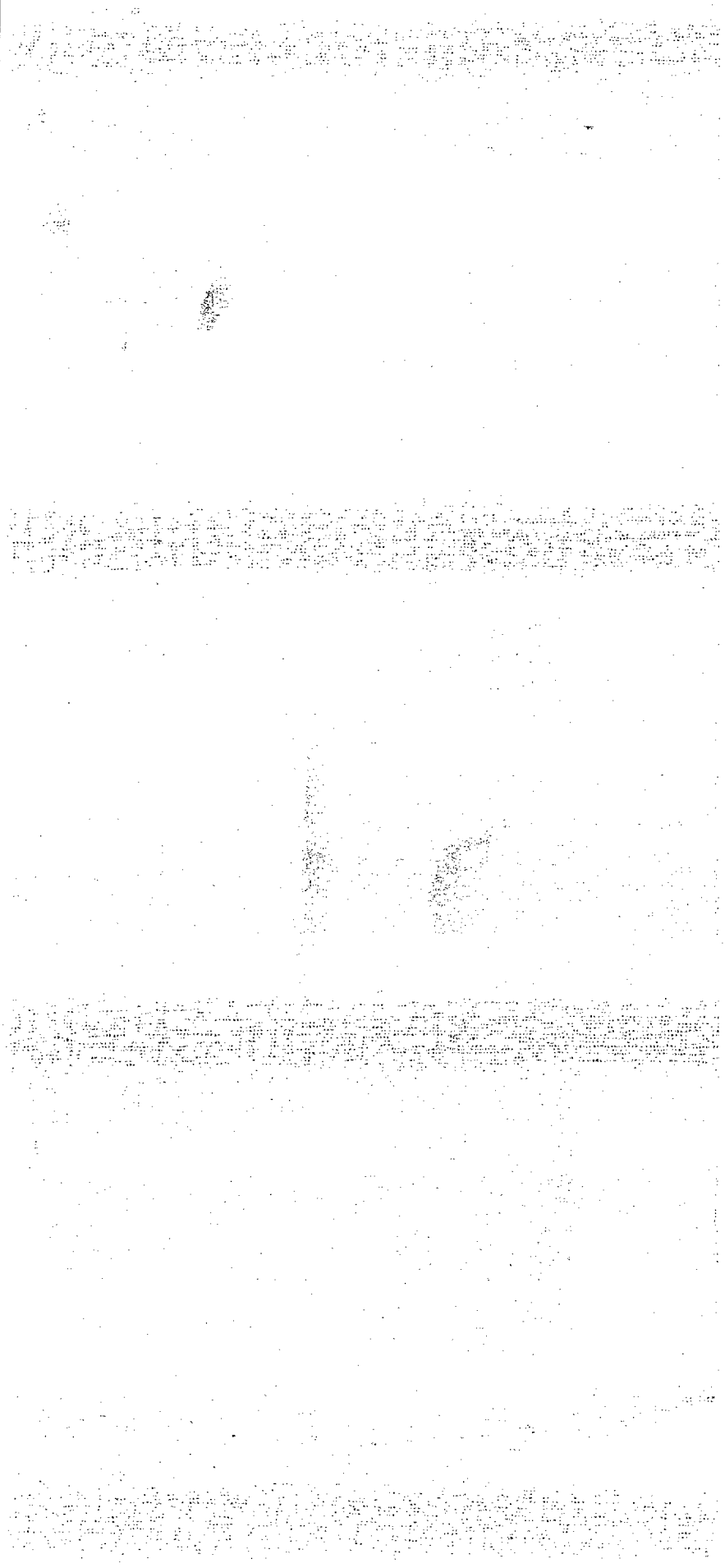
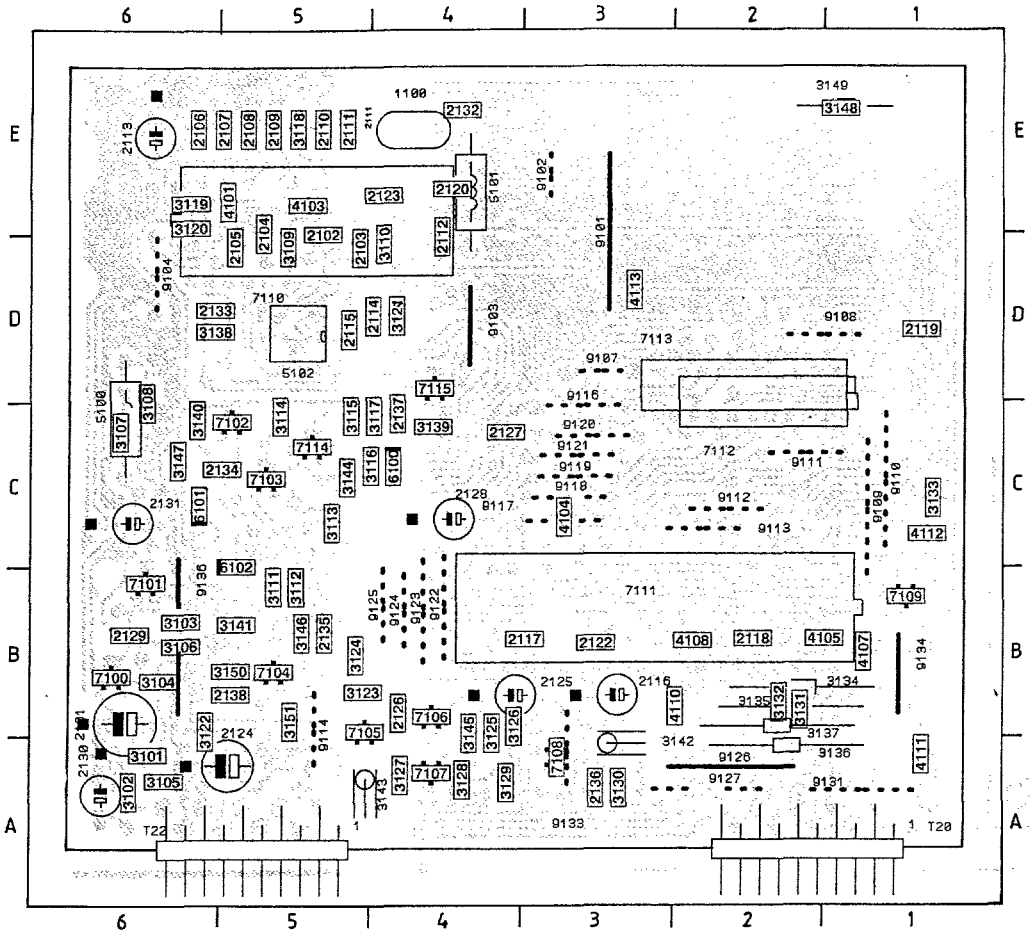




Txt panel / Txt Platte / Platine txt



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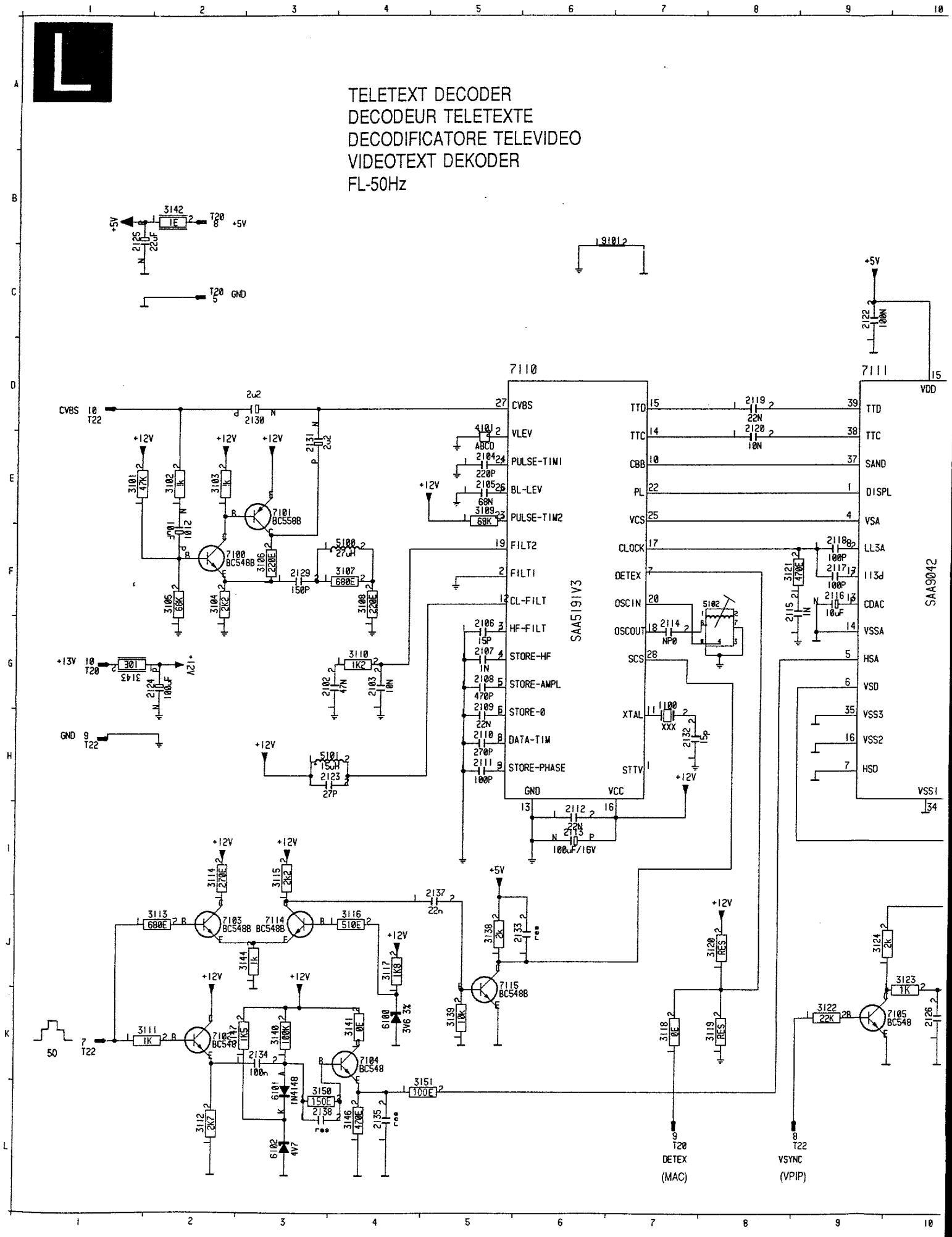
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VLEV
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BL-LEV
PULSE-TIM2
FILT2
FILT1
CL-FILT
HF-FILT
STORE-HF
STORE-AMPL
STORE-0
DATA-TIM
STORE-PHASE
GND
VCC
TTD
TTC
CBB
PL
VCS
CLOCK
DETEX
OSCIN
OSCOUT
SCS
XTAL
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CDAC
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HSA
VSD
VSS3
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+5V
+12V
+13V
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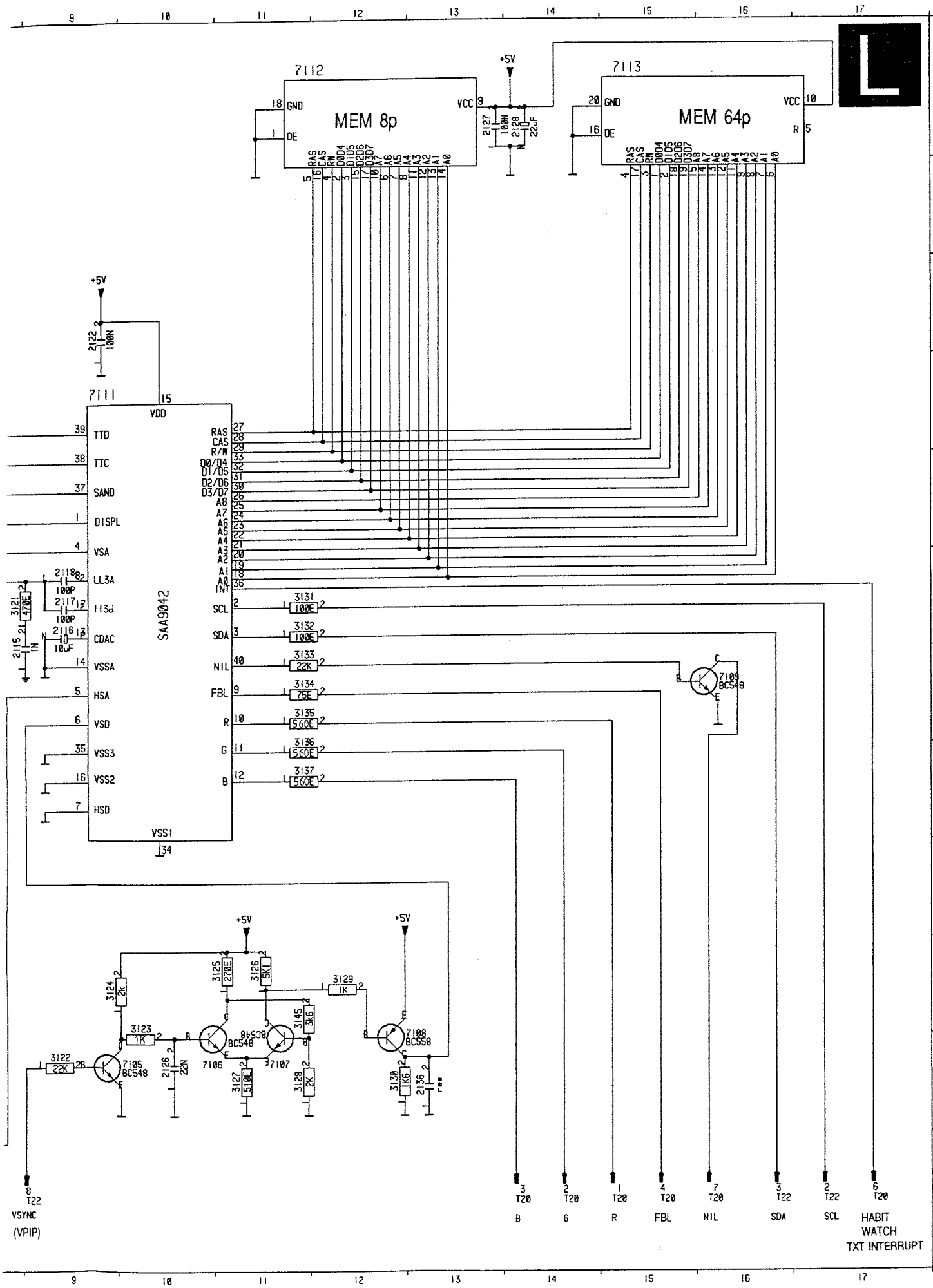

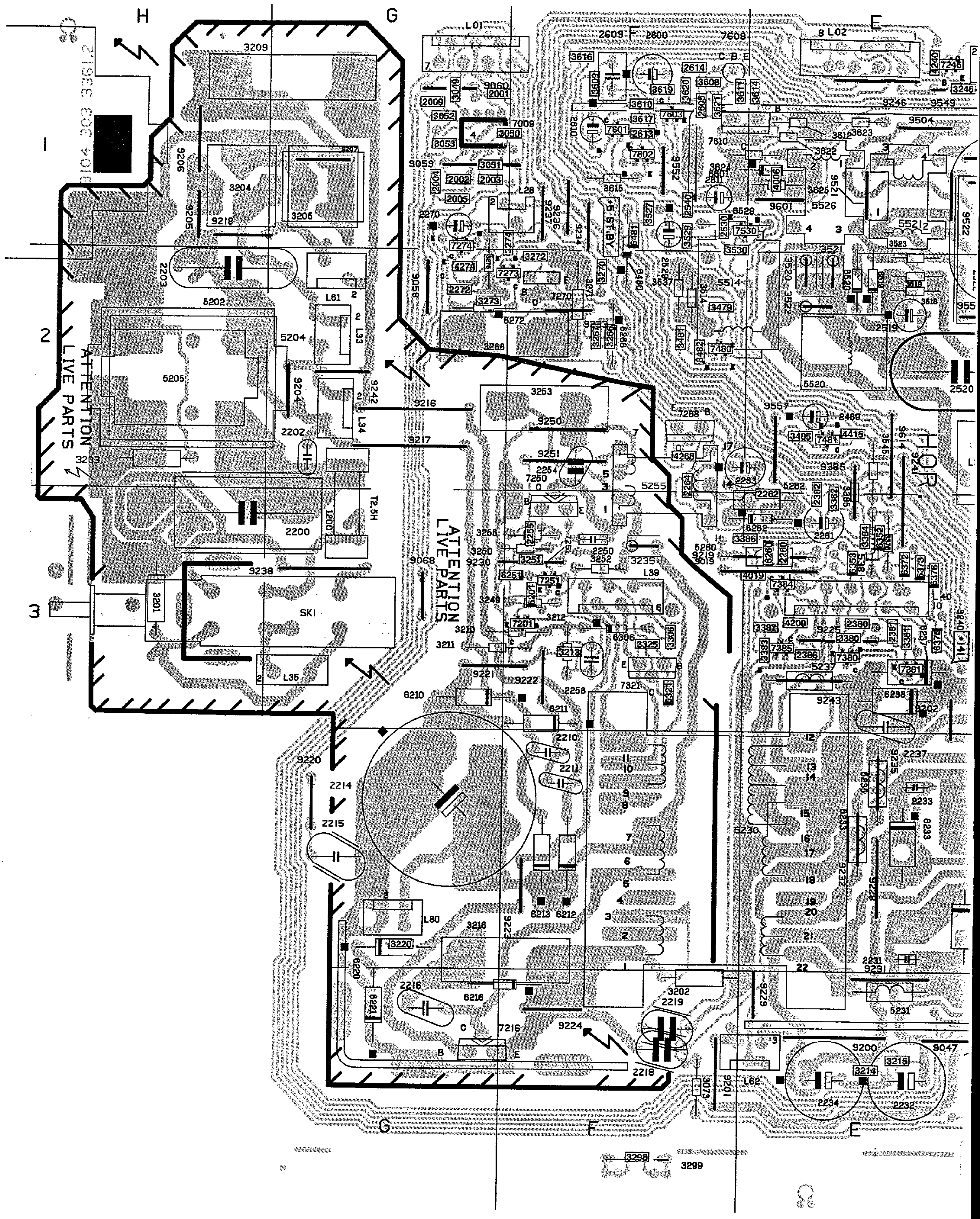
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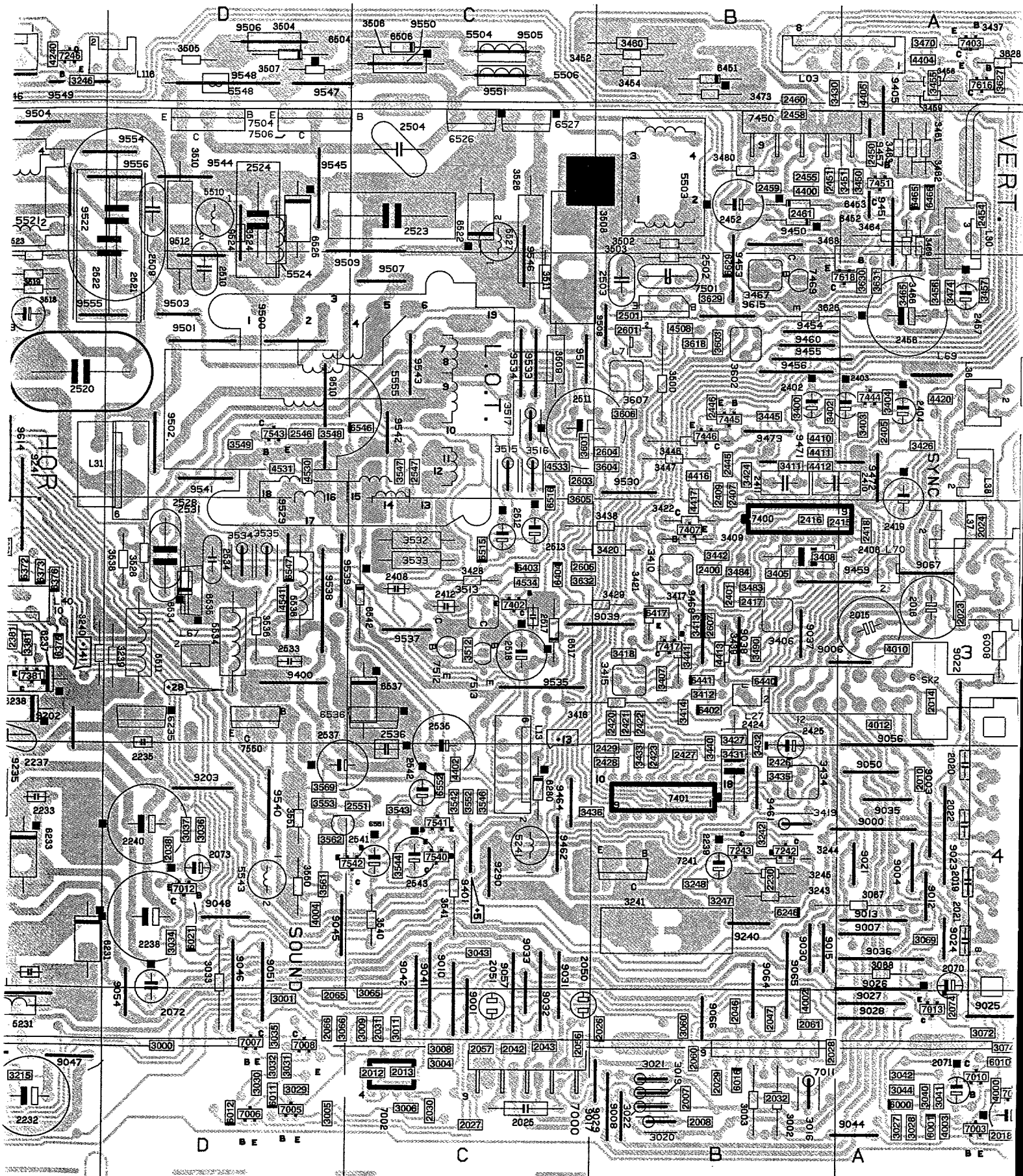
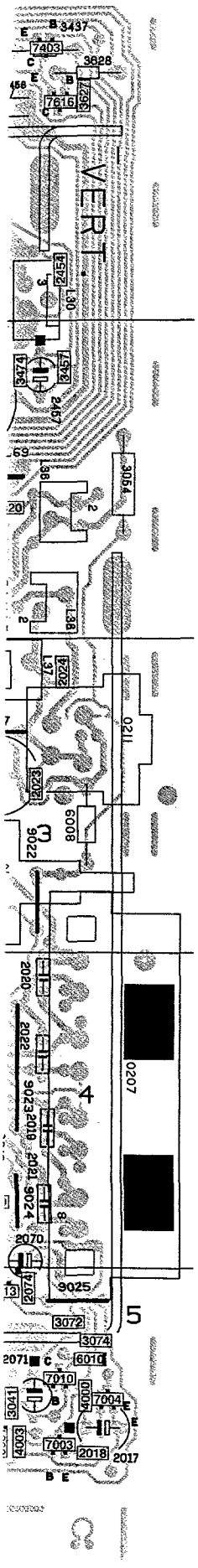
3104 303 3361.2

Large signal panel / Groß-signal Platte / Plati



Platine forts signeaux



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L33 G2	2260 E3	2546 D2	3270 F2	3446 B2	3611 F1	6212 F4	7243 B4	9056 A3	9542 C2
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L35 G3	2262 E3	2551 C4	3272 F2	3450 A1	3614 E1	6216 F5	7250 F3	9058 G2	9544 D1
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2047 B5	2455 B1	3069 A4	3404 A2	3527 F1	5233 E4	6515 C3	9004 A4	9455 B2	
2050 C5	2456 A2	3072 A5	3405 B3	3528 D3	5235 E4	6516 C2	9006 A3	9456 B2	
2051 C5	2457 A2	3073 F5	3406 B3	3529 F1	5237 E3	6517 C3	9007 A4	9457 A1	
2056 C5	2458 B1	3074 A5	3407 B3	3530 F2	5241 C4	6519 E2	9008 B5	9459 B3	
2057 C5	2459 B1	3201 H3	3408 B3	3532 C3	5255 F3	6520 E2	9010 C5	9460 B2	
2060 B5	2460 B1	3202 F5	3409 B3	3533 C3	5260 E3	6522 C1	9012 A4	9461 B4	
2061 B5	2461 B1	3203 H2	3410 B3	3534 D3	5262 E3	6525 D1	9013 A4	9462 C4	
2065 D5	2480 E2	3204 H1	3411 B2	3535 D3	5308 H5	6526 C1	9015 B4	9464 C4	
2066 D5	2501 B2	3205 G1	3412 B3	3536 D3	5310 H5	6527 C1	9017 B5	9468 B3	
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2074 A5	2510 D2	3213 F3	3417 B3	3542 C4	5510 D1	6537 C3	9024 A4	9501 D2	
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2218 F5	2522 D1	3242 B4	3428 C3	3551 D4	5536 D3	7002 C5	9033 C5	9510 D2	
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2231 E4	2528 D3	3245 B4	3431 B4	3561 D4	5555 D3	7005 D5	9037 B3	9521 E1	
2232 E5	2529 F1	3246 E1	3432 B4	3562 D4	6000 A5	7006 D5	9038 B3	9522 E1	
2233 E4	2530 F1	3247 B4	3433 B4	3569 D4	6001 A5	7007 D5	9039 B3	9524 D1	
2234 E5	2531 D3	3248 B4	3434 B4	3601 C2	6008 A3	7008 D5	9041 C4	9529 D3	
2235 D3	2533 D3	3249 F3	3435 B4	3602 B2	6010 A5	7009 G1	9042 C5	9530 B2	

9533 C2
9534 C2
9535 C3
9537 C3
9538 D3
9539 D3
9540 D4
9541 D2
9542 C2
9543 C2
9544 D1
9545 D1
9546 C2
9547 D1
9548 D1
9549 E1
9550 C1
9551 C1
9552 F1
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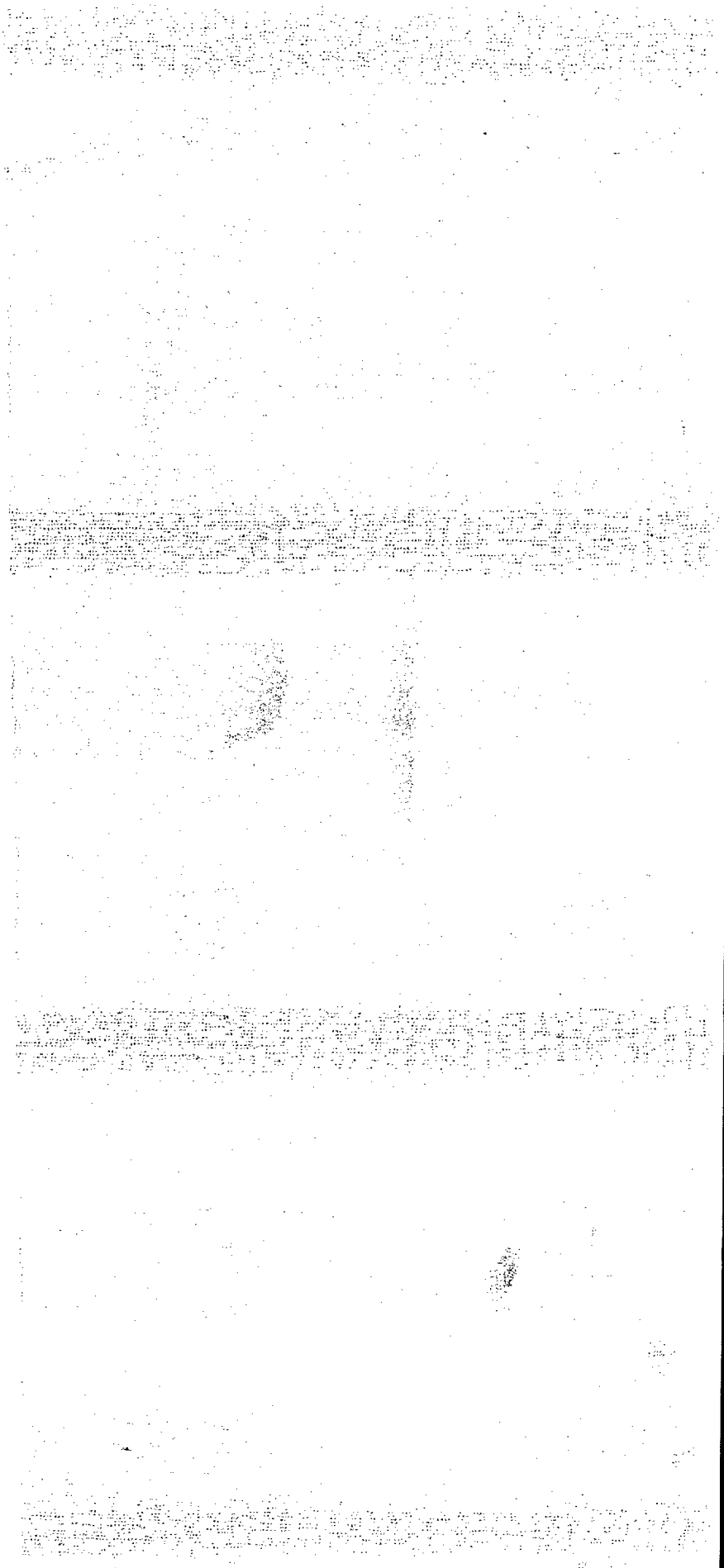
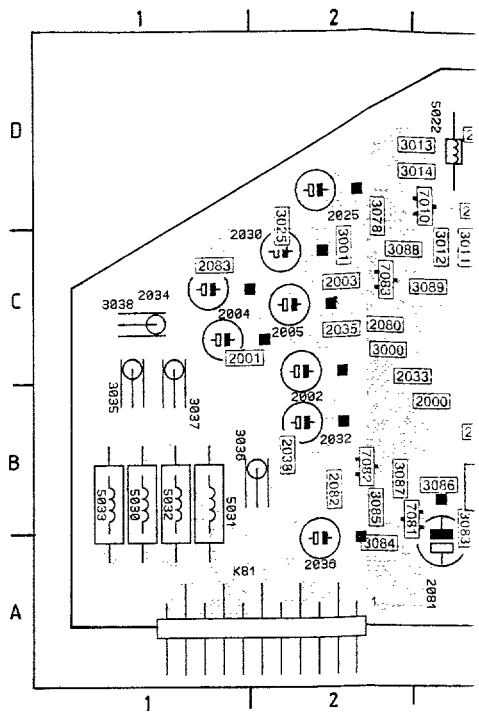
9555 E2
9556 D1
9557 E2
9601 E1
9614 E2
9615 B2





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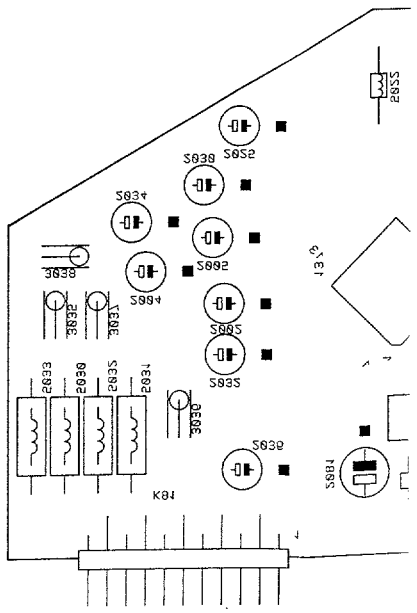
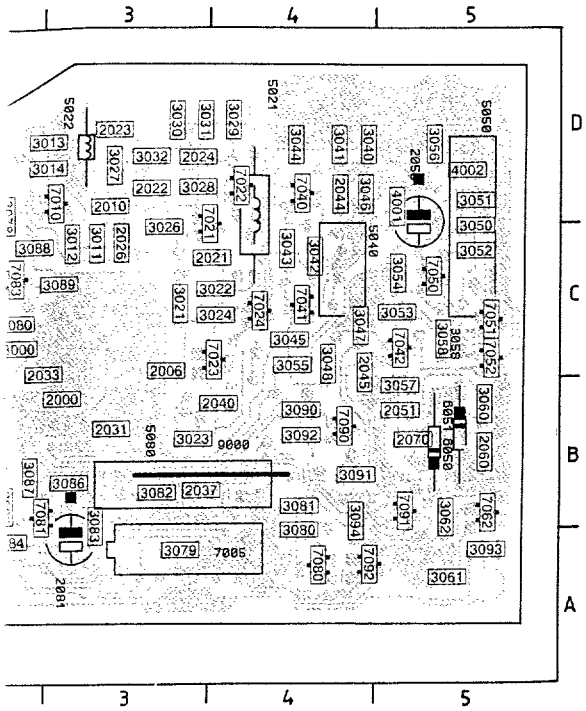
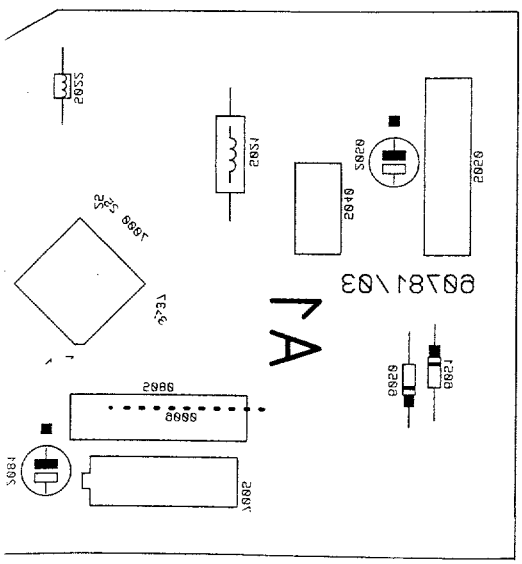
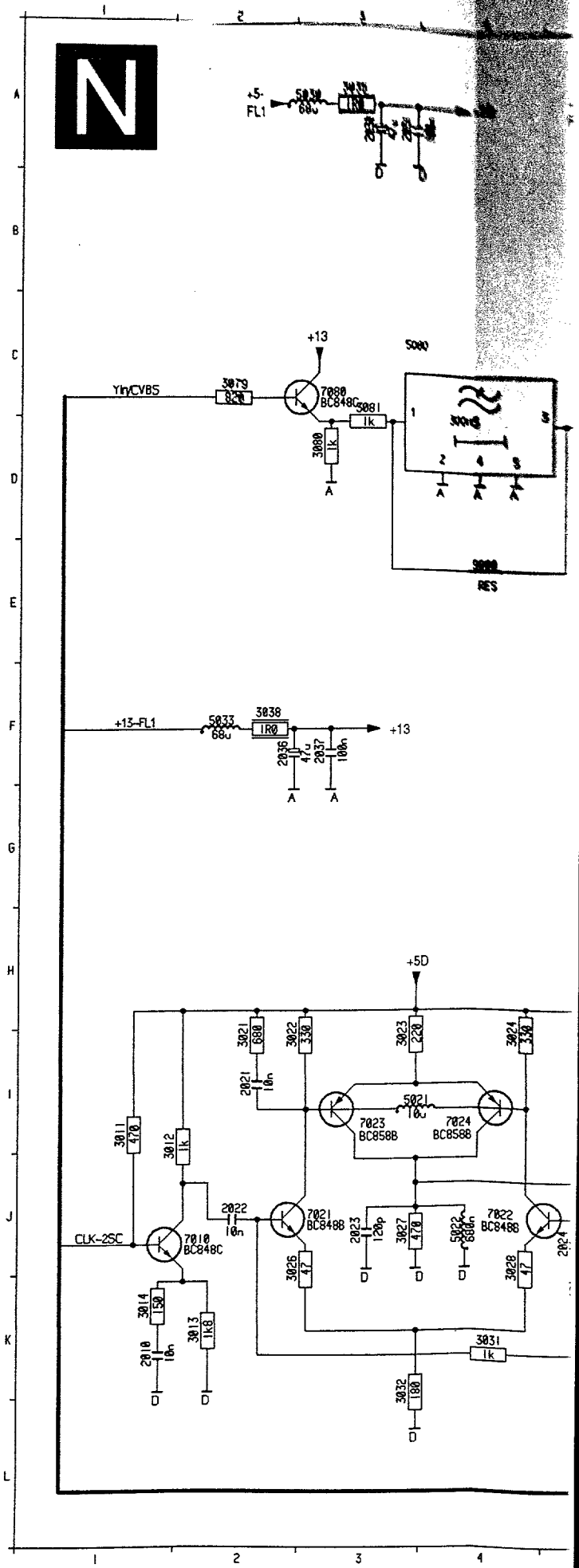
2003 C2	2035 C2	3001 C2	3032 D3	305
2004 C1	2036 A2	3011 C3	3035 B1	305
2005 C2	2037 B3	3012 C3	3036 B2	305
2006 C3	2038 B2	3013 D3	3037 B1	305
2010 D3	2040 B4	3014 D3	3038 C1	305
2021 C4	2044 D4	3021 C3	3040 D4	305
2022 D3	2045 C4	3022 C4	3041 D4	305
2023 D3	2050 D5	3023 B3	3042 C4	306
2024 D3	2051 B5	3024 C4	3043 C4	306
2025 D2	2060 B5	3025 D2	3044 D4	306
2026 C3	2070 B5	3026 C3	3045 C4	307
2030 C2	2080 C2	3027 D3	3046 D4	307
2031 B3	2081 A3	3028 D3	3047 C4	308



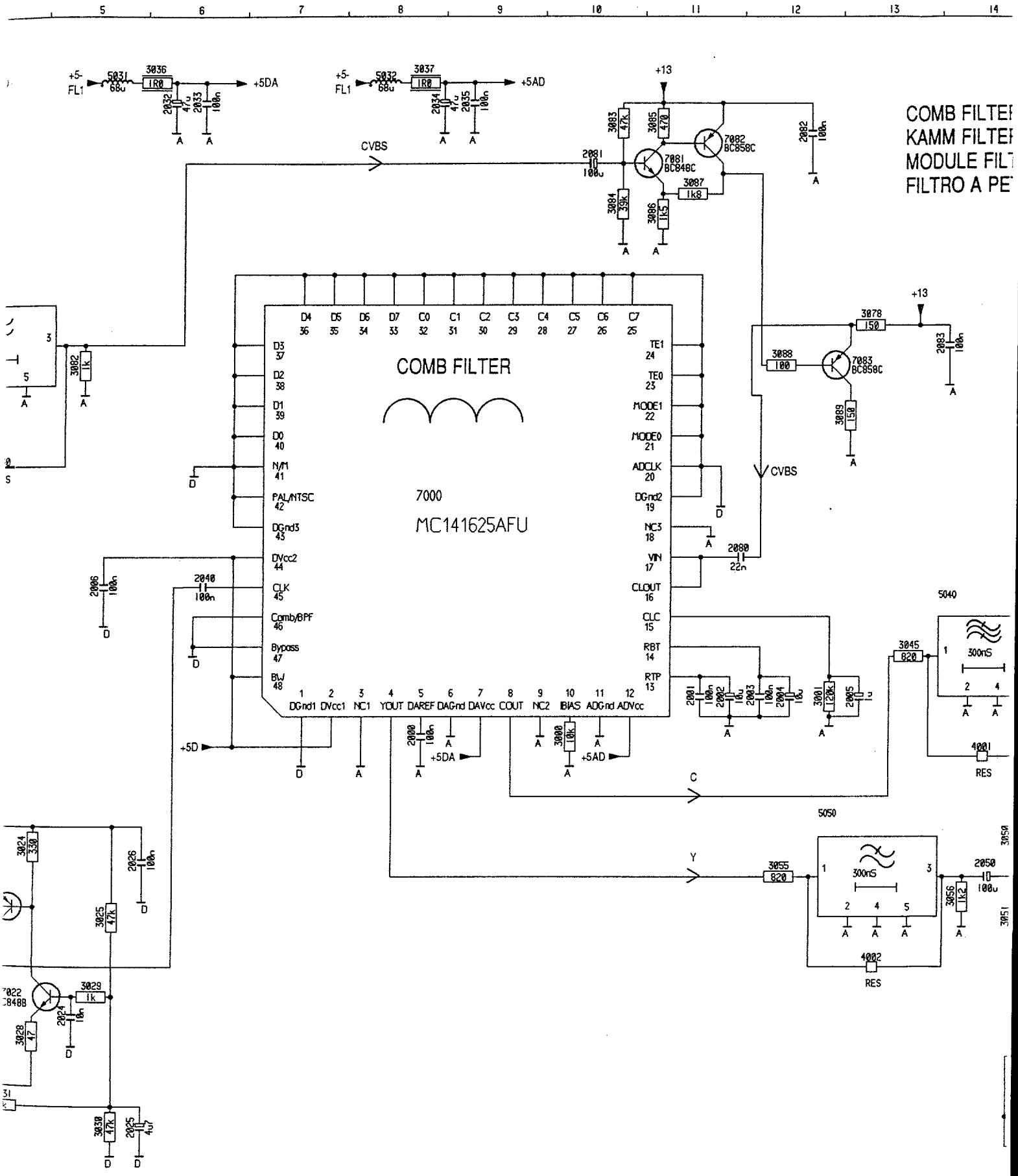


)4	3048 C4	3081 B4	5021 D4	7023 C4	9000 B4
)3	3050 C5	3082 B3	5022 D3	7024 C4	
)4	3051 D5	3083 B3	5030 B1	7040 D4	
)3	3052 C5	3084 A2	5031 B1	7041 C4	
31	3053 C5	3085 B2	5032 B1	7042 C5	
32	3054 C5	3086 B3	5033 B1	7050 C5	
31	3055 C4	3087 B2	5040 C4	7051 C5	
)1	3056 D5	3088 C2	5050 C5	7052 C5	
)4	3057 B5	3089 C3	5080 B3	7062 B5	
)4	3058 C5	3090 B4	6050 B5	7080 A4	
)4	3060 B5	3091 B4	6051 B5	7081 B2	
)4	3061 A5	3092 B4	7000 C3	7082 B2	
)4	3062 B5	3093 A5	7005 A3	7083 C2	
)4	3078 D2	3094 B4	7010 D3	7090 B4	
)4	3079 A3	4001 D5	7021 C4	7091 B5	
)4	3080 A4	4002 D5	7022 D4	7092 A4	

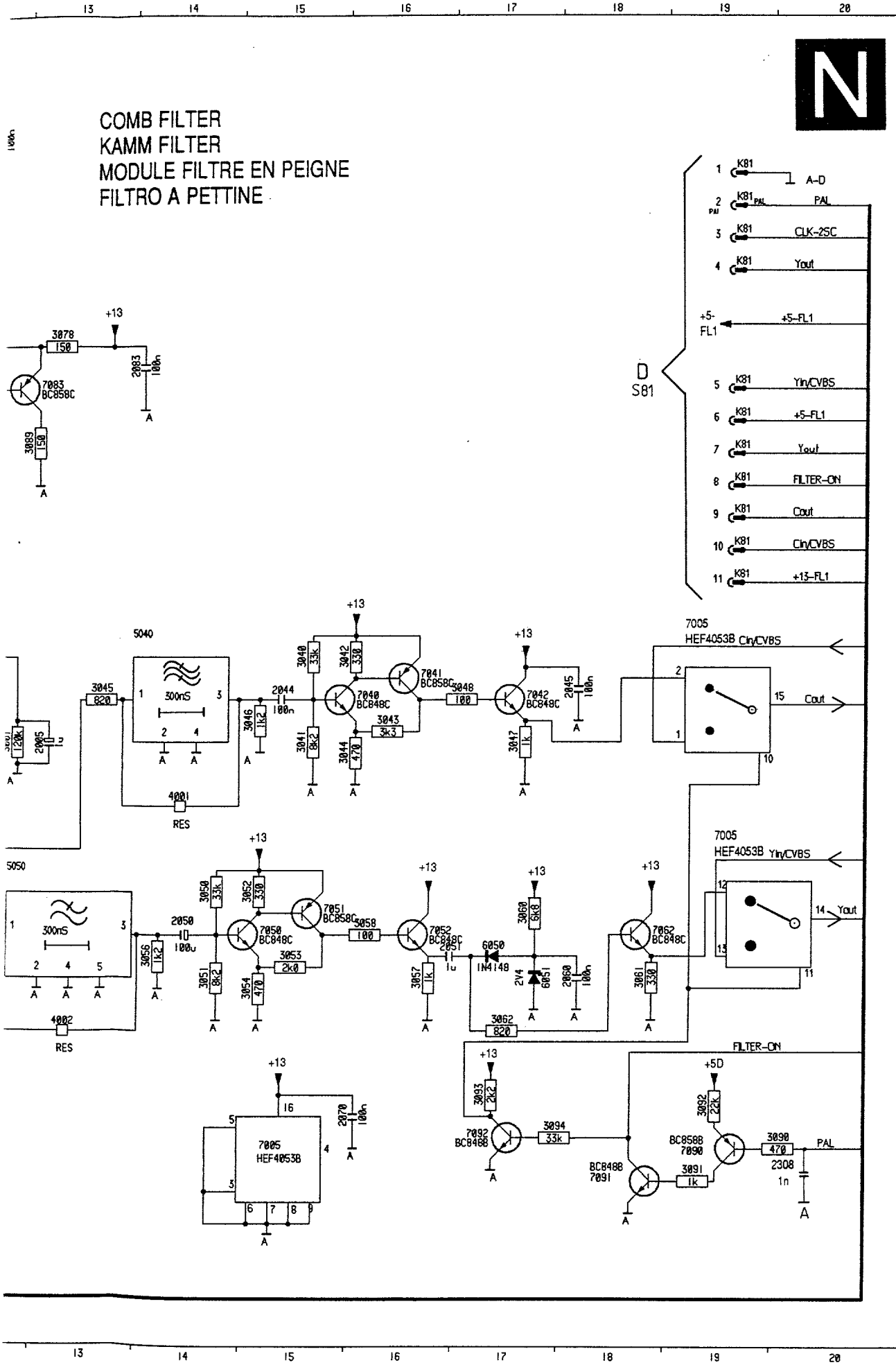


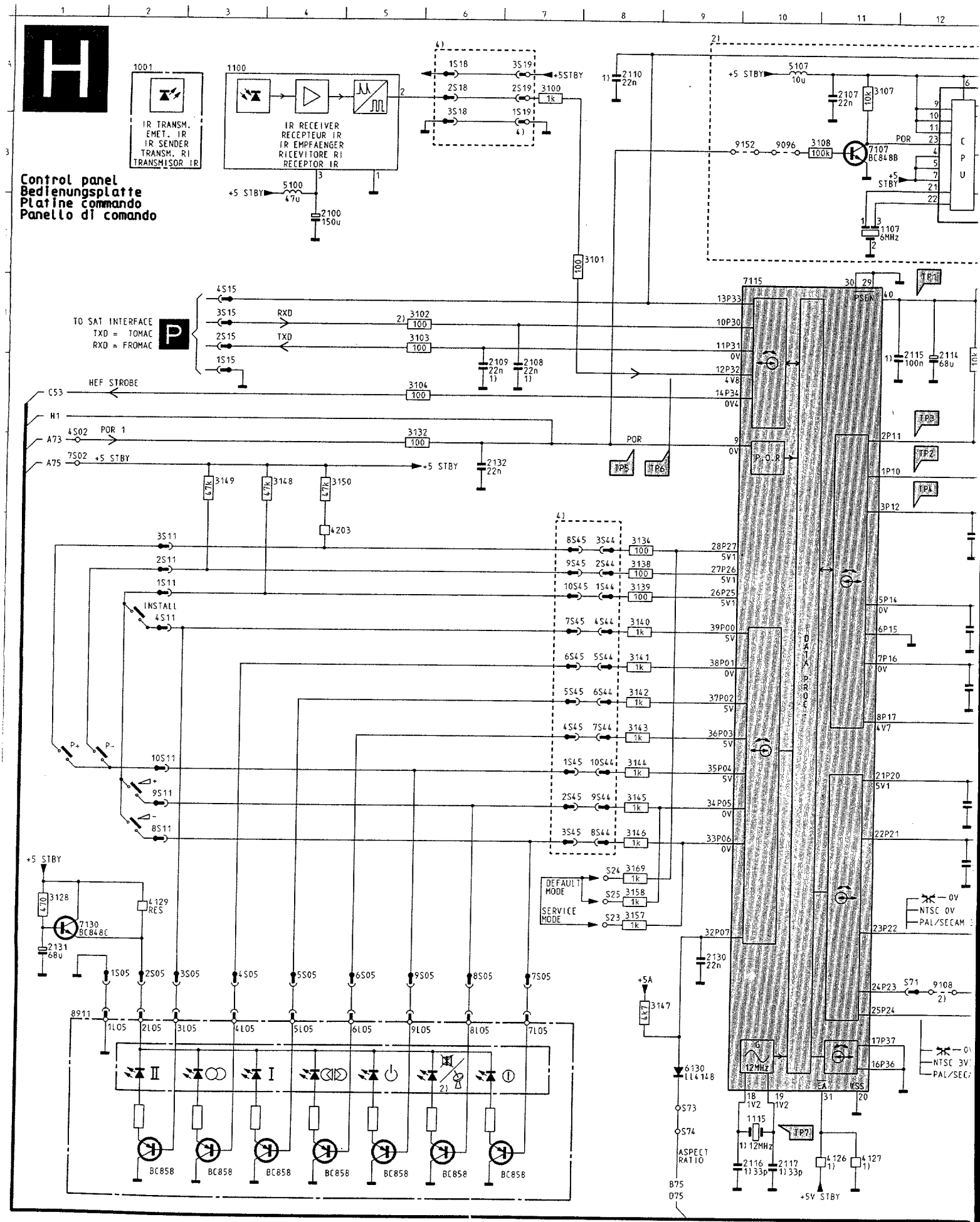


Comb filter / Kamm-Filter / Filtre en peigne

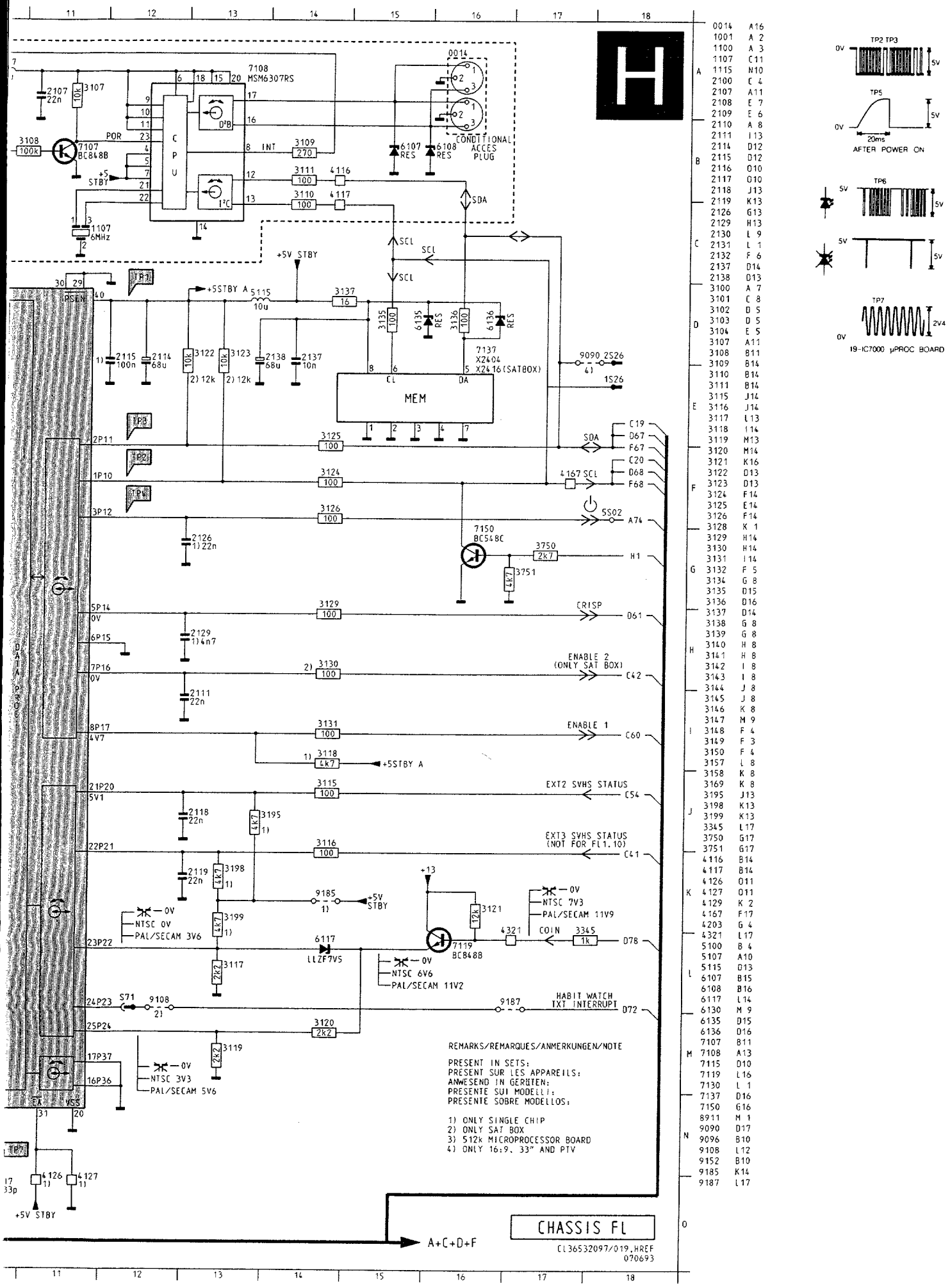


COMB FILTER
KAMM FILTER
MODULE FILTRE EN PEIGNE
FILTRO A PETTINE

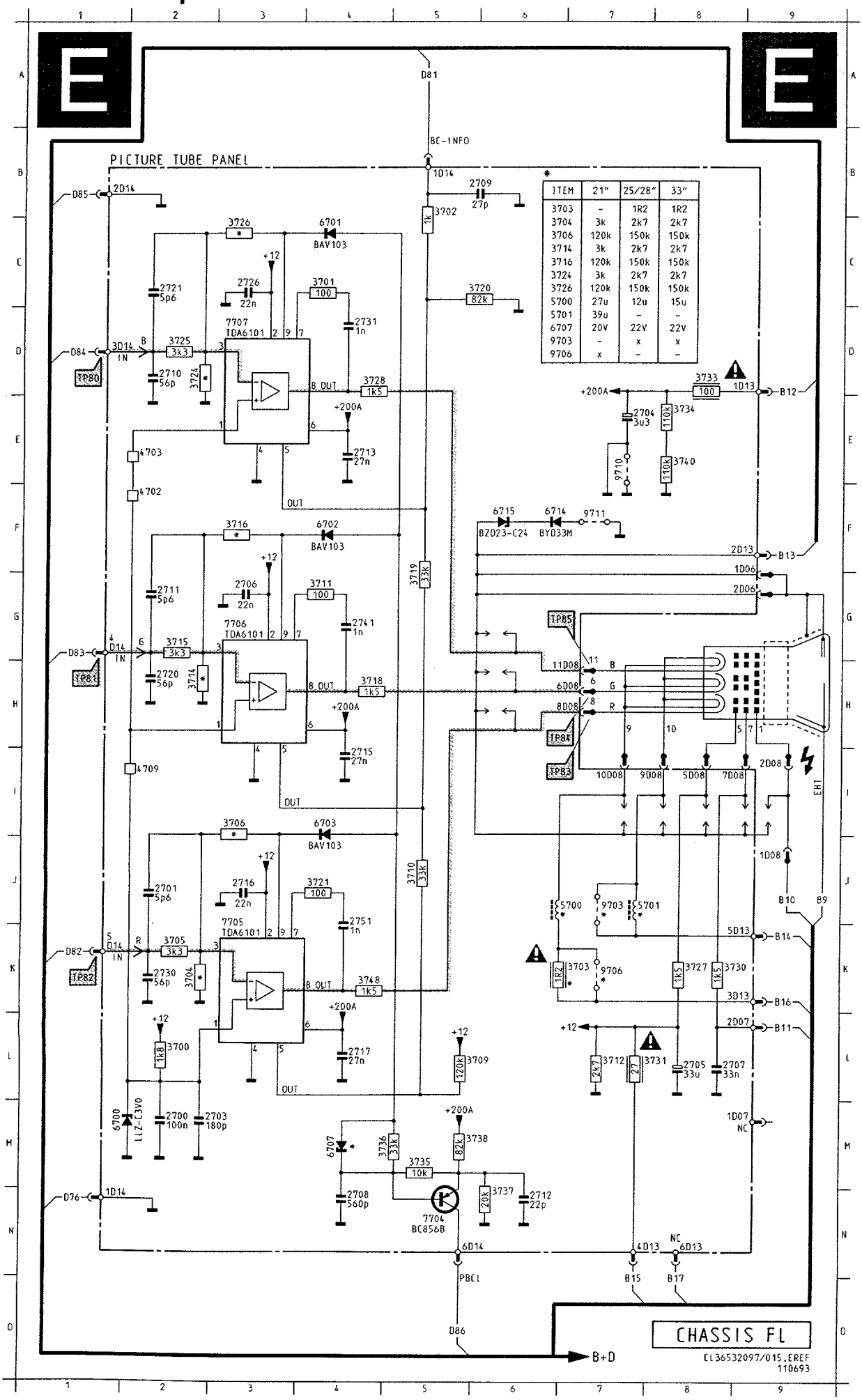



H
Control panel
Bedienungsplatte
Platine commande
Panello di comando
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
TO SAT INTERFACE
TXD = TOMAC
RXD = FROMAC
HEF STROBE
INSTALL
DEFAULT MODE
SERVICE MODE
ASPECT RATIO
POR
+5 STBY
+5A
CPU
DATA PROC
P.O.R
NTSC 0V
PAL/SECAM
NTSC 3V
PAL/SEC
BC858
BC848B
BC848C

Controls / Bedienung / Commande



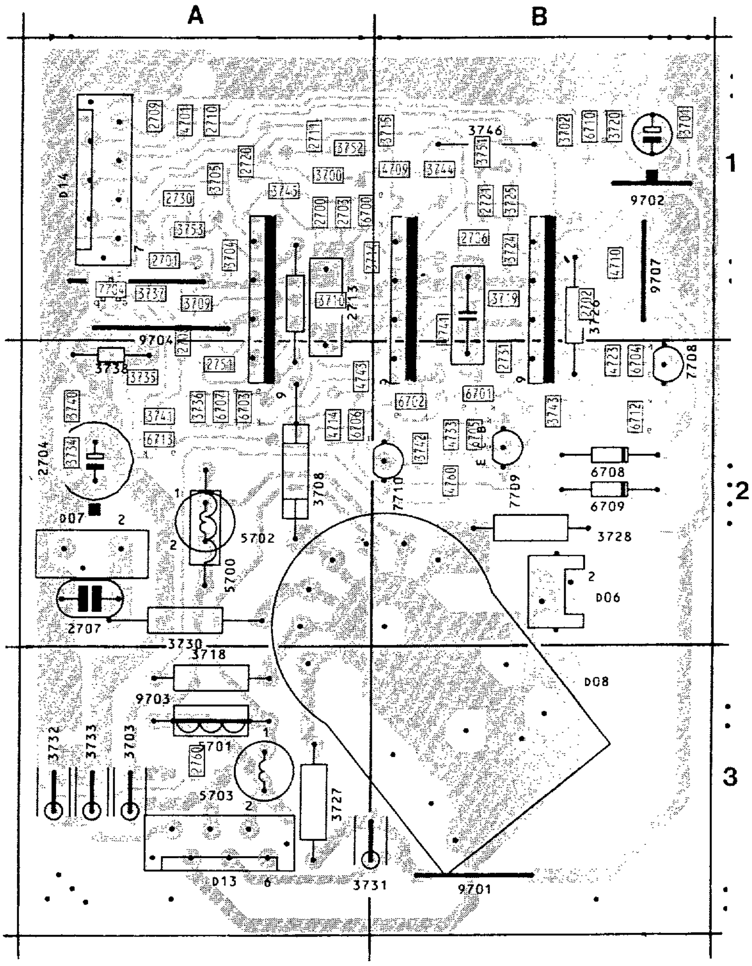
Picture tube panel / Bildröhren Platte /



ITEM	21"	25/28"	33"
3703	-	1R2	1R2
3704	3k	2k7	2k7
3706	120k	150k	150k
3714	3k	2k7	2k7
3716	120k	150k	150k
3724	3k	2k7	2k7
3726	120k	150k	150k
5700	27u	12u	15u
5701	39u	-	-
6707	20V	22V	22V
9703	-	x	x
9706	x	-	-

700	M 2
701	J 2
703	M 2
704	E 7
705	L 8
706	G 3
707	L 8
708	N 4
709	B 5
710	D 2
711	G 2
712	N 6
713	E 4
715	I 4
716	J 3
717	L 4
720	H 2
721	C 2
726	C 3
730	K 2
731	D 4
741	G 4
751	K 4
700	L 2
701	C 4
702	B 5
703	K 7
704	K 2
705	K 2
706	I 3
709	L 5
710	J 5
711	G 4
712	L 7
714	H 2
715	G 2
716	F 3
718	H 4
719	G 5
720	C 5
721	J 4
724	D 2
725	D 2
726	C 3
727	K 8
728	D 4
730	K 8
731	L 7
733	D 8
734	E 8
735	M 5
736	M 5
737	M 6
738	M 5
740	E 8
748	K 4
702	F 2
703	E 2
709	I 2
700	J 6
701	J 7
700	M 1
701	C 4
702	F 4
703	I 4
707	M 4
714	F 6
715	F 6
704	N 5
705	K 3
706	G 3
707	D 3
703	J 7
706	K 7
710	E 7
711	F 7

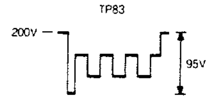
Platine Tube-image



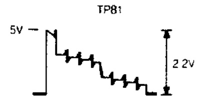
2700 A1	4709 B1
2701 A1	4710 B1
2702 B1	4714 A2
2703 A1	4723 B2
2704 A2	4733 B2
2705 B1	4743 A2
2706 B1	4760 B2
2707 A2	5700 A2
2708 A2	5701 A3
2709 A1	5702 A2
2710 A1	5703 A3
2711 A1	6700 A1
2713 A1	6701 B2
2715 B1	6702 B2
2720 A1	6703 A2
2721 B1	6704 B2
2730 A1	6705 B2
2731 B2	6706 A2
2741 B1	6707 A2
2751 A2	6708 B2
2760 A3	6709 B2
3700 A1	6710 B1
3701 B1	6711 B2
3702 B1	6712 B2
3703 A3	6713 A2
3704 A1	7704 A1
3705 A1	7705 A1
3706 A1	7706 B1
3708 A2	7707 B1
3709 A1	7708 B2
3710 A1	7709 B2
3714 A1	7710 B2
3715 B1	9701 B3
3716 B1	9702 B1
3718 A3	9703 A3
3719 B1	9704 A1
3720 B1	9705 A1
3724 B1	9706 A3
3725 B1	9707 B1
3726 B1	D06 B2
3727 A3	D07 A2
3728 B2	D08 B2
3730 A2	D13 A3
3731 A3	D14 A1
3732 A3	
3733 A3	
3734 A2	
3735 A2	
3736 A2	
3737 A1	
3738 A2	
3740 A2	
3741 A2	
3742 B2	
3743 B2	
3744 B1	
3745 A1	
3746 B1	
3748 A2	
3751 B1	
3752 A1	
3753 A1	
4701 A1	

TP80

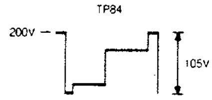
TP83



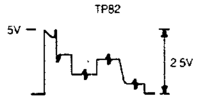
TP81



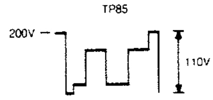
TP84



TP82



TP85



7. Electrical adjustments

Setting conditions

* Unless stated otherwise, the supply voltage used is: 220 - 240V ± 10%; 50 - 60Hz ± 5%
* Voltages and oscillograms are measured in elation to tuner earth. **Never** use the cooling plates as earth.
* Warming-up time ≈ 10 minutes
* For all measurements it is true that:
* probe Ri > 1MΩ; Ci ≤ 10pF

1. Electrical settings on the large signal panel

1.1 +141V supply voltage
Supply the mains voltage; this must be isolated from the mains.
Connect a voltmeter over C2238.
Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to + 141V ±0.5V.

1.2 Focusing
This is set with the focus potentiometer (top one on the Line output transformer).

1.3 Vg2 setting
Supply an aerial signal.
Set the contrast to maximum and the brightness and saturation to nominal.
Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.
Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer to 150V ±2V.

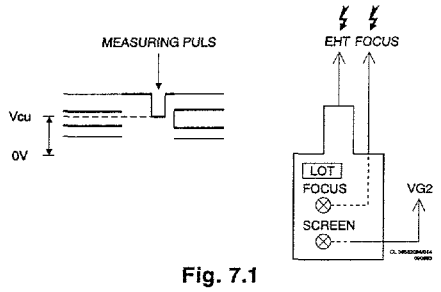


Fig. 7.1

1.4 Stable OSD
Short circuit pin 11 IC7401 to pin 13 IC7401
Short circuit pin 5 IC7755 to earth.
Measure the frequency on pin 16-IC7401 and set this to 15,625 Hz ±25 Hz with R3434.
Remove the short circuits.

1.5 Horizontal synchronisation
Connect point 5-IC7400 to point 9-IC7400.
Supply an aerial signal and set the receiver.
Adjust potentiometer R3406 until the picture is straight.
Break the through connection.

1.6 Horizontal centring
Feed in a test pattern that makes the horizontal linearity visible (e.g. a symmetrical cross pattern or a test circle).
Adjust the DC offset current through the horizontal deflection coil using R3513 so that the horizontal linearity is optimal (the distance between the two vertical lines should be equal on both the left and right hand sides of

1.7 Picture width
Set using potentiometer R3607.

1.8 Vertical centring
Set using potentiometer R3467.

1.9 Picture height
Set using potentiometer R3410.

1.10 East/West correction
Set using potentiometer R3602.

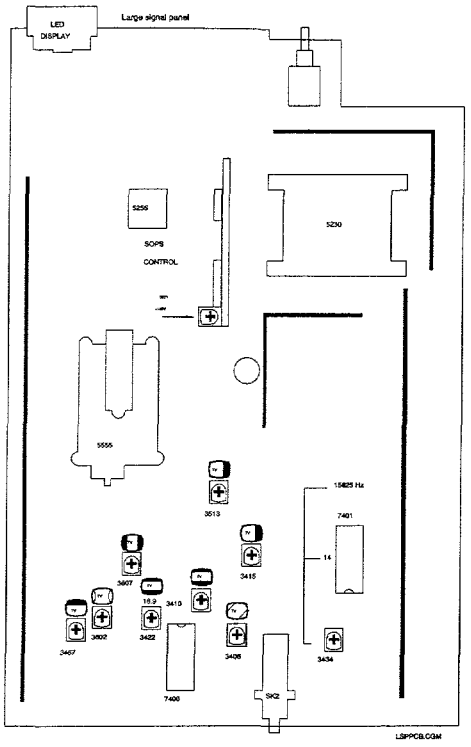


Fig. 7.2

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation
Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).
Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.
Connect an oscilloscope to pin 3 of Euroconnector EXT1
Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2.2 4.43 MHz chroma suppression circuit
Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

2.3 Electrical settings IC7365 (TDA4650)

2.3.1 Chroma bandpassfilter
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-IC7365 to pin 13-IC7365 (+12V). Connect an oscilloscope to pin 15-IC7365.
Set L5345 to maximum amplitude.
Remove the interconnection.

2.3.2 4 C v C C S F

2.3.3 6 C E 2 C C S F

2.3.4 C C b e p

2.3.5 C C b e p

2.3.6 S C b 3 C r

2.3.2 4.50 MHz NTSC sound suppression
Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV$_{rms}$.
Connect point 26-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.3 6.50 MHz SECAM DK sound suppression
Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV$_{rms}$.
Connect point 28-IC7365 to point 13-IC7365.
Connect an oscilloscope to point 15 of IC7365.
Set L5346 to minimum amplitude.
Remove the short circuit.

2.3.4 Chroma 8,87 MHz auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set C2380 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.5 Chroma 7,16 MHz auxiliary oscillator
Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7365 (TDA4650) to earth. Set R2379 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3.6 SECAM demodulators
Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 3-IC7365. Set L5370 to minimum amplitude.
Connect the oscilloscope to pin 1-IC7365. Set R3370 to minimum amplitude.

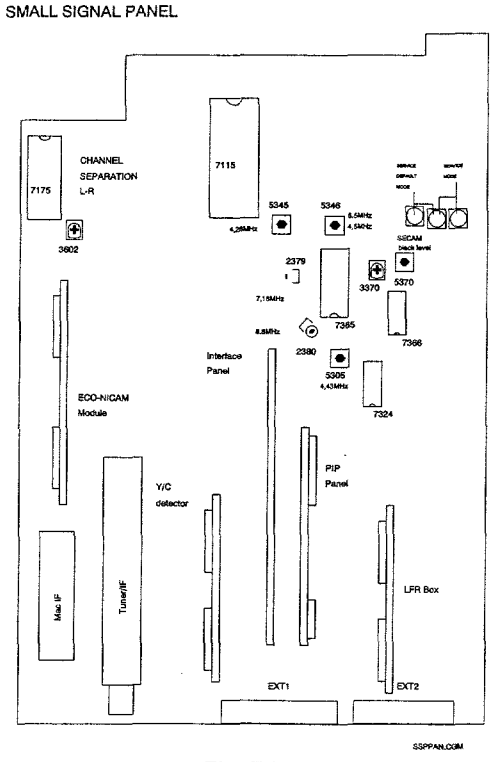


Fig. 7.3

3. Electrical setting on the teletext decoder

Connect pin 7-T22 briefly to earth.
Connect a frequency counter to pin 17-IC7110.
Using L5102, set to 13.500 MHz ± 100 kHz.
Remove the short circuit.

4. Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment

Connect a frequency counter via a probe (Ci ≤15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND).
Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (±5Hz)

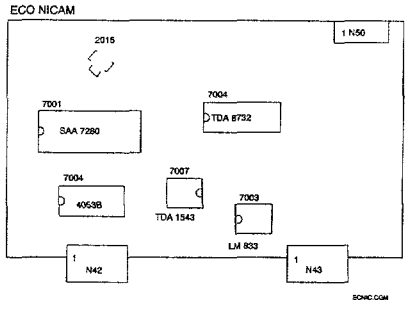


Fig. 7.4

5. Y/C detector adjustment

5.1 PAL/SECAM

Inject a chroma signal of 4.418 MHz/200mV on pin 15 of EXT2 SCART (PL05).
Connect an oscilloscope to the collector of T7266 (T7).
Using L5201 adjust the 4.418 MHz signal to maximum amplitude.

5.2 NTSC

As PAL/SECAM but with a signal of 3.582 MHz/200mV. Adjust with L5200.

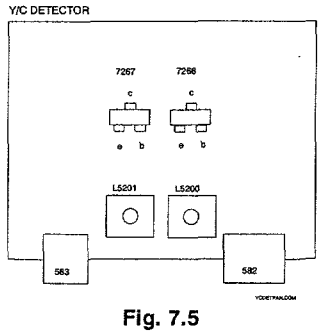


Fig. 7.5

6. Electrical settings on the PIP panel

Setting conditions
Before carrying out each setting, it should be ensured that a P.I.P. picture with colour bar is visible on the screen and the unit should have reached its operating temperature
(after ≈20 min.).

Electrical adjustments

6.1 Horizontal synchronisation

Supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125.
Connect pin 5-IC7755 to earth.
Measure the frequency on pin 17-IC7755 and set this to 15,625 Hz ±25 Hz with R3239.
Remove the short circuits.

6.2 AGC

If the picture from a strong local transmitter is distorted, adjust 3160 until the picture is not distorted.

6.3a Setting for PIP modules with IC7126 (TDA4510)

a-1 Chroma bandpass filter

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 L5118 to maximum amplitude.

a-2 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7126 (TDA4510) to earth.
Set C2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

a-3 The delayline

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 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.

6.3b Setting for PIP modules with IC7125 (TDA2554)

b-1 Chroma bandpass filter

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 L5118 to maximum amplitude.
Remove the interconnection.

b-2 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) to earth.
Set C2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

b-3 NTSC chroma auxiliary oscillator

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set C2212 so that the colour of the PIP picture is practically still.
Remove the interconnection.

6.3.4 The 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). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.
Set L5155 and L5157 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.

6.3.5 SECAM identification

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.
Adjust L5190 to maximum DC level.
Remove the interconnection.

6.3.6 SECAM demodulators

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 L5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set L5170, but now measure at pin 3-IC7125.
Remove the interconnection.

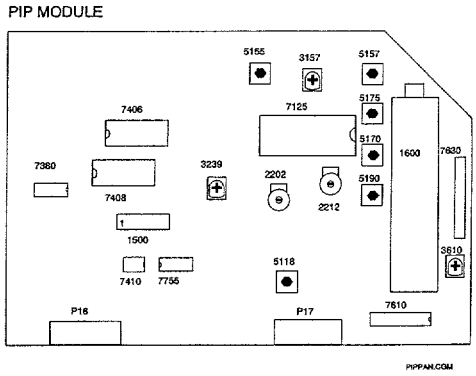


Fig. 7.6

Electrical adjustments

7. Alignments in the Service Menu

7.1 Switch in the Service Menu by momentarily connecting together pins S23 and S24 on the small signal panel (diagram H). The Service Menu will then appear on the screen. The procedure is as follows:

- Select the required alignment with the coloured keys A to E.
- Change the values set using the "Menu +/-" key.
- Store the values set in the EAROM and leave the Service Menu by selecting STORE.

7.2 White Drive Alignment

Select a white picture. (A black picture (e.g. VCR1) set at maximum brightness is also suitable).
Switch the Service Menu in.
Select the required white drive alignment by adjusting the colours red and blue in relation to green (green is the reference colour).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 44.
The factory setting for blue is then approx. 44.
The factory setting for red is then approx. 21.

7.3 Cut-off Alignment

Select a black picture (e.g. VCR1).
Switch the service menu in.
Set the brightness level so that the picture just (but clearly) illuminates.
Using the Cut-off adjustments align the colour temperatures in such a manner that at minimum illumination of the picture they are the same as the colour temperatures at maximum brightness.
(At minimum picture illumination it is possible that one colour may dominate. This is however normal and does not have to be (fully) compensated with the cut-off alignment).

Remarks: In the original factory settings "white" has a colour temperature of 7600K (White with a bluish tint).
The point of departure is green with a value of 28.
The factory setting for blue is then approx. 33.
The factory setting for red is then approx. 25.

7.4 D2-MAC Alignment

These alignments are described in the section: FL1 SAT box chapter 7.

7.5 Option Alignment

The microprocessor communicates with a great number of components in the set. For correct communication the microprocessor has to know what IC's and modules are present in the set. This is done using option codes. An incorrectly set option code will give a communication problem and an accompanying error code. Every function has been allocated a value. The sum of 8 values forms an option code. This number can vary from 0 to 255. The option code tables are given at the end of this paragraph.

For example, a set has:

Option code 1

Function	*Value*
Frontend FQ916/ME/IF	2
PIP Module	8
NTSC-M	16
NICAM module	64 +

Option code 1 is now:	**218**

Option code 2

Function	*Value*
Comb filter	128+

Option code 2 is now:	**128**

Option code 3

Function	*Value*
-	0 +

Option code 3 is now:	**0**

Option code 4:

Function	*Value*
IC 7000 = MC 141625	16 +

Option code 4 is now:	**16**

Optioncode 1

Nbr.	Function
0	**Front end = FQ916** A reception of PAL BG or PAL BG and SECAM BG is now possible
1	**Front-End = FQ944** Only reception of the UHF band is now possible
2	**Front end = FQ916/ME/IF** Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
4	**Front end =FQ916/MF/IF** Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
8	**PIP module present** This makes it possible to show PIP (Picture in Picture) displays.
16	**NTSC-M reception possible** This is normally always in combination with front end FQ916/ME/IF.
32	**SECAM DK module fitted** In this case transmissions using the SECAM DK system can also be received.
64	**NICAM module fitted** In this case the digital sound with NICAM transmission can be received.
128	**Second front end for PIP fitted** If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies.

Optionc
Nbr.
1
2
4
8-32
64
128

Optionc
Nbr.
1-32
64
128

Optionc
Nbr.
1
2
4
8
16
32-128

Optioncode 2	
Nbr.	**Function**
1	**Not in use**
2	**Not in use**
4	**100Hz featuring present**
8-32	**Not in use**
64	**100 Hz LFR box present**
128	**Comb filter** (see further the number 16 of option code 4).

Optioncode 3	
Nbr.	**Function**
1-32	**Not in use**
64	**16:9 present**
128	**"Videocolor 36" Picture tube**

Optioncode 4	
Nbr.	**Function**
1	**Teletext Peaking Filter on/off for LFR box (Scandinavia)** In Scandinavia this number must be selected .
2	**Multi-PIP (100 Hz, LFR)** When the PIP-module operates on a 50Hz basis the Multi-PIP function is present and this option is active. (Multi-PIP provides 9 or 16 small pictures on the screen simultaneously).
4	**FL2 model** When the operating buttons are located on the side of the set, the set is an FL2 model.
8	**Not in use**
16	**Comb filter:** IC 7000 = MC 141625 (see further the number 128 of option code 2).
32-128	**Not in use**

8. Repair tips

1. The Service Default Mode

The FL1/2is equipped with a service default mode. The service default mode is a fixed, definite state to which the set can be switched.

1.1 Definition state

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

- all sound and picture controls are in the central position (exception volume which is turned down)
- tuned to 475.25 MHz
- system:
  * PAL/SECAM BG for Multi Europe
  * PAL I for UK
  * SECAM L for Multi French

1.2 Switch on and off

The service default mode is switched on by shorting pins S24 and S25 on the small signal panel.

The service default mode can only be switched off by switching the set to stand-by. If the set is switched off and then on again using the mains switch or the mains plug, the service default mode will remain on.

If the set switches to stand-by immediately after switching-on, the set cannot be operated and also cannot be switched to the service default mode. The child-proof lock has already been activated (see also Section 9).

1.3 Fault signals

To indicate that the set is in the service default mode, the following is displayed on the screen:

SERVICE 00 00 05 06 05

The five numbers after the word "service" stand for the last five fault signals noted by the operator(s). The number on the extreme right represents the last fault signal, that on the extreme left the last fault signal but 4. Since this enables fault reports to be looked at afterward, it means that intermittent faults can be traced.
When the set leaves the service default mode, the fault-report memory is cleared.

1.4 Operation

During the service default mode the set will accept all operating commands. When, however, the set is switched off and on, it will return to the state as defined above.

2. Error messages

In both FL1 and FL2 models the IC error messages are indicated by a combination of flashing LED's. In FL1 7 LED's on the front of the set are used. In FL2 only 2 LED's have been fitted to the front of the set: 'on' and 'stand-by'; for service purposes the 7 LED's have been fitted inside the set in an SMD version. These are located on the solder side of the panel with buttons for local control on the side of the set. The 2 LED's on the front of the set are connected in parallel with the corresponding service LED's.

Figure 8.1 illustrates the situation for FL1 and FL2. A table of error messages is provided at the end of this chapter.

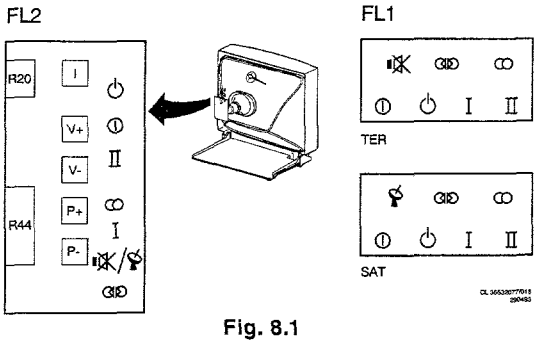


Fig. 8.1

3. Replacement of EEPROM IC7137

If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed.
If the service mode is now activated (see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.
All options have also to be set, the programs installed and the personal preference set.

4. Extension prints

To simplify the measurements ON the various modules extension prints are available for the modules fitted with BTB connectors. Modules can be placed in these connectors so that they stick out above the other prints when the chassis is in the service position.
The code numbers for the extension prints are:
5-fold 4822 395 30261
6-fold 4822 395 30259
8-fold 4822 214 31402
9-fold 4822 395 30258
10-fold 4822 395 30257

5. Removing the PIP module

The PIP module can be simply removed, leaving the set functioning normally (The LED display does however indicate an error condition). Following the removal of the PIP module the signal path is broken. The signal path can be restored by placing the 5-core flat cable with connector S56 in connector foot S16 (see diagram D). The error message can be removed through the application of the option codes (see chapter 7).

6. Extension cables

Extension cables are available to lead the large signal and small signal panel signals (LSP and SSP) separately out of the set. These are made up as follows:

4822 320 20209	Set of 6 cables for LSP and SSP connections.

See chapter 4 also.

7 Diagnosis and protection

7.1 Hardware and software protection

In case any serious fault occurs in the set, one of the protection circuits will activate. A protection circuit switches of the main power supply (SOPS) via the stand-by input (STBY) of the SOPS control panel. This input is located on pin 1 of connector pin L40 with test point number TP56, and is illustrated on diagram A.
As the microprocessor is fed by a separate stand-by power supply (SOPS), the processor and the LED's will continue to operate, even when the main power supply is switched off.

A number of protection circuits can switch off the power supply independently and immediately (hardware protection). In two protection circuits the microprocessor itself switches off the power supply (software protection).

All protection circuits come together on the stand-by input (TP56 of the main power supply. A diagnosis determines which protection circuit is active.

7.2 Protection test point TP56 [diagram A]

The following voltages may be present on the stand-by input of the SOPS control panel (TP56): [see diagram A]

1	Approx. 17V	during operation;
2	0.5 - 1V	during hardware protection; (this value is maintained by a thyrist circuit formed by TS7380/TS7381);
3	<0.5V	during stand-by and software protection.

7.3 Hardware protection:

1 Power supply voltage +13 from the SOPS too high (+V) [diagram A].
This protection circuit activates if the voltage in +13V circuit of the SOPS becomes too high during operation.

2 SOPS and/or +11/+16/-11/-16V for the audio output amplifier defective (SOUND-PROT).
[diagram G]
The protection circuit activates when the +11/+16V and -11/-16V voltages are no longer in balance, or when both voltages are absent. This protection circuit also operates when the SOPS does not function or is short-circuited.
This protection circuit is fed by the start-up voltage 'Vstart' from the SOPS.

3 Beam current too high (I-BEAM) [diagram B]
When the beam current becomes too high this protection circuit switches off the power supply. Before this protection circuit can activate the picture will first illuminate brightly. This fault occurs for example on the absence of the +200V power supply voltage on the picture tube panel.

4 Deviating LOT behaviour (EHT, LOT-PROT) [diagram B].
This protection circuit becomes active when a 'unusual' voltage forms appear on the LOT outputs (5555). This may indicate defective or loose components in the line deflection circuit. (LOT, switching transistors, capacitors).

5 East/west output stage defective [diagram B].
This protection circuit activates when the current through the east/west switching transistor T7610 exceeds a specific value. In this case transistor T7542 will conduct for a brief period. (the base-emitter voltage Ube from T7542 is then momentary greater than 0.6V).

6 Vertical deflection end stage (IC7450) defective [diagram B].
The frame output stage IC7450 has a protection output (pin 7, TP62). This output becomes momentarily high on any defect in this IC or during the absence of the power supply voltage.
During normal operation there are short pulses on this output.
The frame output stage is fed by a winding on the LOT (5555) (+28V or +32V).
During diagnosis a check should be made whether the +28/+32V power supply voltage continually drops before the protection circuit output is activated. If this is the case then one of the other protection circuits is responsible for switching out the power supply.
By measuring the timing pulses between the protection output (pin 7) and the power supply voltage (pin 6) in relation to earth (pin 2 or 4) it can be determined whether the protection is originating from the frame output stage.
The protection circuit overview at the end of this chapter provides a schematic overview of the measurements.

.4 Software protection

.4.1 Error message 99

Error message 99 is displayed when software protection is generated by the microprocessor.
Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an I^2C signal to the microprocessor. The processor then sets the SOPS in stand-by. If this is the case error message 99 is then displayed.
Software protection can be switched out by activating the 'Service Default Mode' (see §8.1).

If the +13V or +5V are absent as a result of hardware protection switching out the power supply, error message 99 will be displayed by the LED's following a short period, as the microprocessor is no longer receiving any signal from the connected IC's. The processor now bridges the hardware protection via the STBY signal. Each hardware protection will therefore eventually result in software protection, resulting in error message 99 being displayed.

During hardware protection the microprocessor makes repeated attempts at communication with the connected I^2C IC's before making a decision for software protection. During this period (up to approximately 5 minutes) the set will not react to any operational commands. Because none of the I^2C IC's responds in this period various error messages will be displayed by the LED's. If error message 99 does not eventually appear then the protection circuits are not operational and the cause of the fault can be sought elsewhere.

When the microprocessor generates a STBY signal for implementing software protection TP56 will be made lower than 0.5V by the STBY signal, through which any eventual hardware protection on TP56 will be bridged.
In order to determine whether hardware protection is active via TP56 the voltage on TP56 should be measured with the set in the 'Service Default Mode' or measured before error message 99 appears on the LED display.

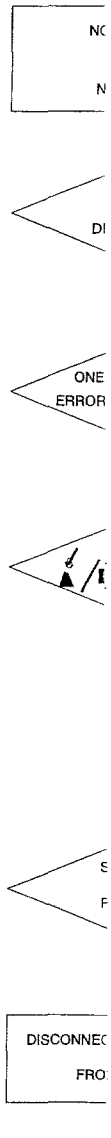
7.4.2 Software protection

7 +5V on the small signal panel (SSP) [diagram B and C]
To test whether the +5V power supply voltage, from the LOT winding (5555) [diagram B], is reaching the small signal panel without short-circuiting the front-end (1160 [diagram C]) must provide a signal to the microprocessor via I^2C within a specific time. If this signal does not arrive, the microprocessor switches the main power supply into stand-by, and the LED's will indicate error message 99 once more.
To test whether the front-end is defective the service default mode will have to be selected. If the power supply voltages on the front-end are correct and a front-end error message persists (error 11), then the front-end is defective.

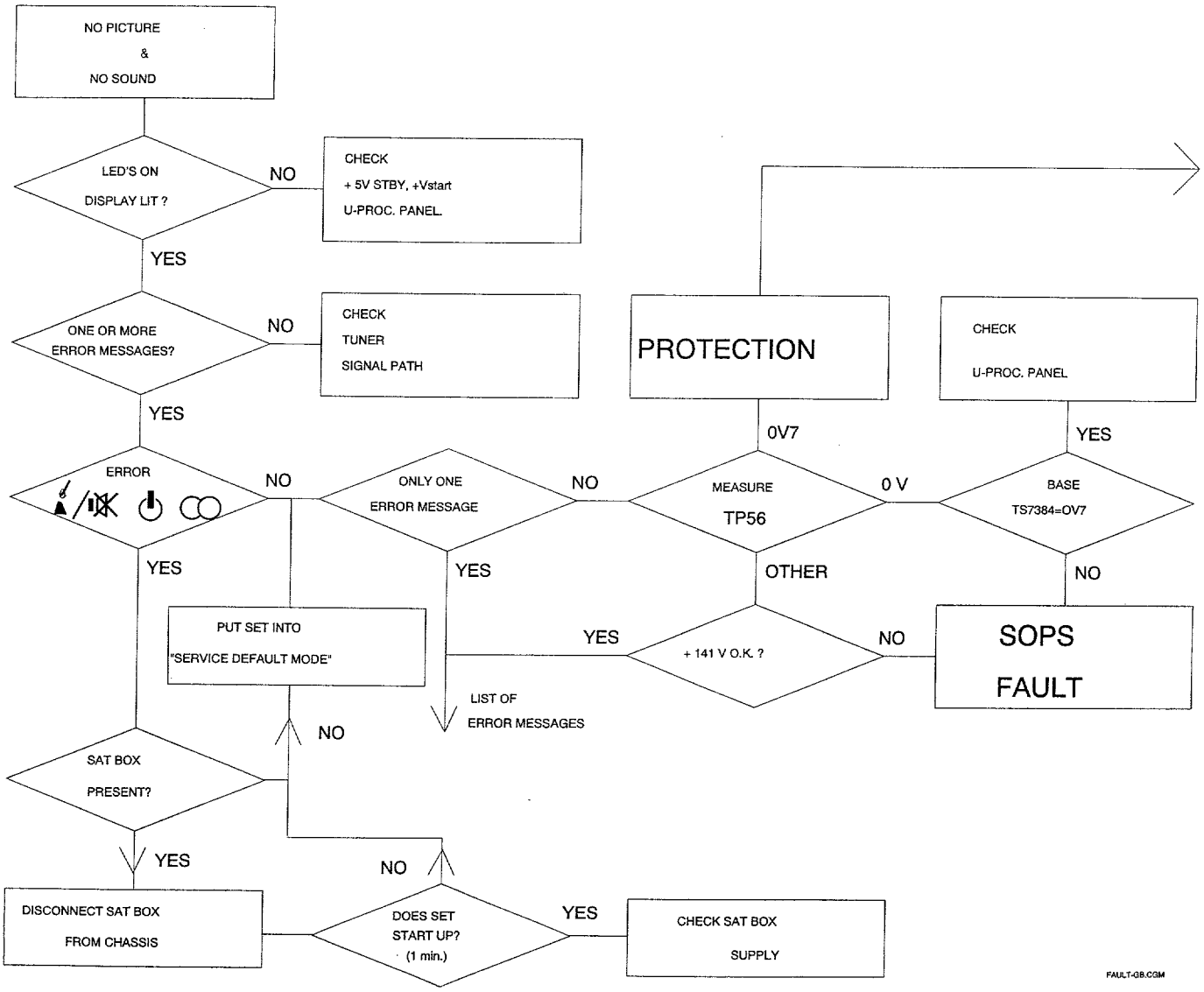
8 +13V on the small signal panel (SSP) [diagrams A, D and F]).
To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via I^2C to the microprocessor within a specific time. If none of these three IC's provides any signal the microprocessor switches the main power supply into stand-by. The LED's indicate error code 99.

7.5 Measurements in the protection circuits.

All hardware circuits are illustrated in figure 8.2.
The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.
In this case the signals illustrated are for during:
- normal operation
- protection caused by this circuit (PROT);
- protection caused by a different protection circuit (N-PROT).

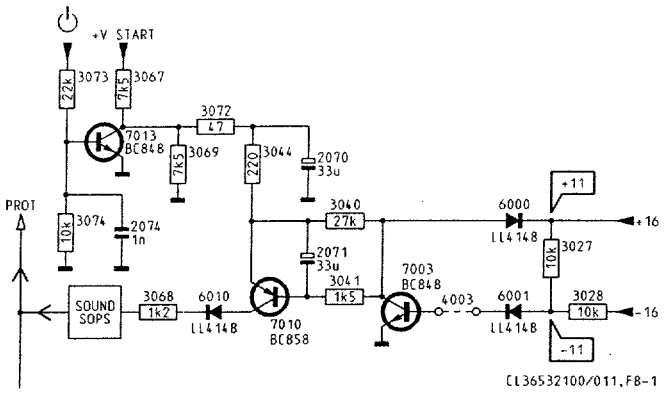


Faultfindingtree

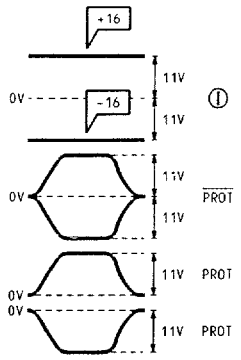


Protection circuits

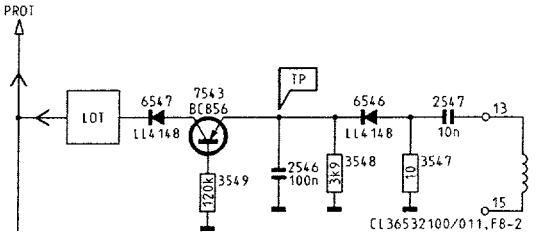
SOPS
+ 16
- 16



CL36532100/011.F8-1



EHT



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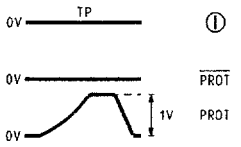
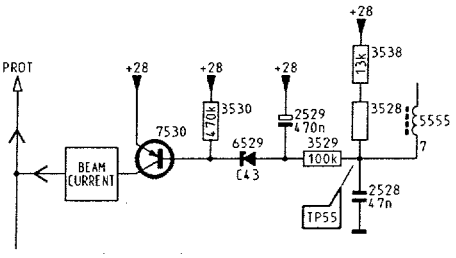
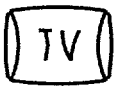
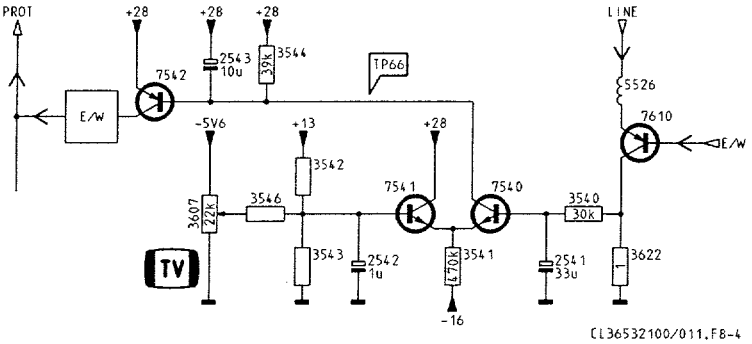




CL36532100/011.F8-3

TV





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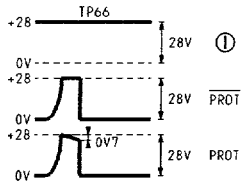
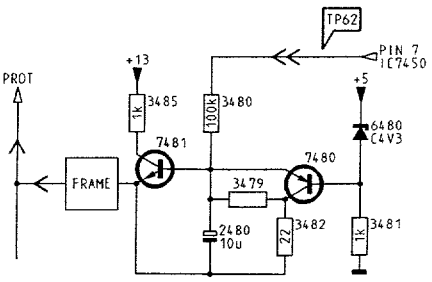
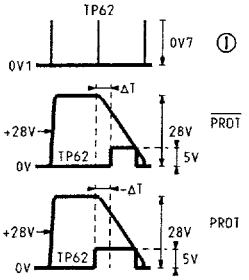
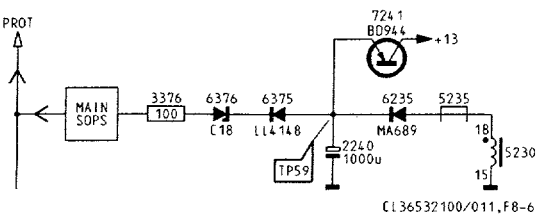




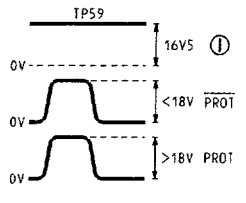
CL36532100/011.F8-5



+V



CL36532100/011.F8-6



CL36532100/011.FREF
110693

Fig. 8.2

List of error messages

Error number on screen	Flashing LED							Description of error
	🔇			⏻	I	II		
1[1]			X		X	X		I²C,IC7108, SSP [H] (MSM6307)
3					X	X		I²C, IC7215, TXT SAA 9042 [L] [L'] I²C, IC7111, TXT SAA 9042 [L]
4				X			X	I²C, IC7220, 100Hz [M] [L'} 83C652
5				X				I²C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I²C,IC7600, SSP [F] (TDA8417)
7							X	I²C,IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Z], PCF8574 (16:9)
9			X	X		X		I²C,IC7430, SSP [D] (TDA4680)
10				X	X		X	I²C,IC7395, SSP [D] (TDA8443)
11				X	X			I²C, front-end, SSP [C] (FQ 9XX)
12						X		I²C, IC7137, SSP [H] (X24C04)
13			X					I²C, bus on chassis blocked
14			X	X				I²C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I²C, IC7219, SSP [C] (TEA6414)
16			X			X		I²C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, µ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, µ proc. [H]
20				X	X	X	X	7115, SSP, µ proc. [H]
21				X				EAROM X24C04 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I²C, IC7080, convergence panel [V] (TDA8444)
28		X						I²C, PIP tuner [J]
29		X						I²C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I²C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I²C, IC7001, NICAM-panel [K] (SAA7280)
33		X						I²C, PLL (1500) PIP modulo [L]
34[1]	X		X				X	LNC supply on SAT box [Q,R] not correct
35[1]	X		X		X		X	IM-bus on SAT box [Q,S] blocked.
36[1]	X		X	X			X	I²C, bus on SAT box blocked.
37[1]	X		X	X	X		X	I²C, IC7450, D2-MAC [S] (X24C02)
38[1]	X		X			X	X	I²C, SAT Tuner [Q] (SF914; SF916)
39[1]	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40[1]	X		X	X		X	X	D2-MAC [S]
41[1]	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42[1]	X				X		X	IC7250, TUNER/CONTROL [Q]
43[1]	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q].
44[1]	X			X	X		X	SAT Tuner [Q] (SF914/916)
45[1]	X					X	X	IC7250, TUNER/CONTROL [Q]
46[1]	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47[1]	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48[1]	X			X	X	X	X	D2-MAC [S]
49[1]	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51[1]					X	X	X	IC7250, TUNER/CONTROL [Q]
52[1]			X				X	D2B Bus EXT, SSP [H] blocked.
53			X			X	X	IC7330, MAC TXT [S], TPU2735
55			X	X		X	X	IC7140, Panorama [B], PCF8574 (16:9)
99	X		X		X			Protection

1) This error is only possible on sets with built in SAT box.
In case an error indication on the set is not included in this table, then check the optional codes (see § 7).

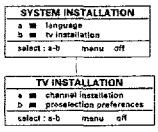
About this handbook

This is a handbook to help you with the installation and operation of your new menu TV.
With a menu TV, menus can be called up on the screen. These menus provide information either about operations to be carried out or about functions you can select.

This handbook consists of two parts :

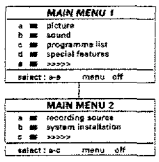
Installation

This part helps you with installing your TV, selecting your menu language, locating and storing your TV channels and composing your favourite list of programme numbers.
To do this, follow the directions of the SYSTEM INSTALLATION menu very closely.
The installation menu is shown as it will appear on your screen.



Operation

After you have stored the TV channels, you can call them up on the screen. You can adjust the picture and sound via the main menu. The MAIN MENU is shown here as it will appear on the screen. Feel free to try out all the different possibilities of your TV. Use this part of the handbook to help you doing this.



- ○ This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.

In the stripe under each menu you are told which keys you can press and how you can switch the menus off again.

Contents

Selecting your menu language

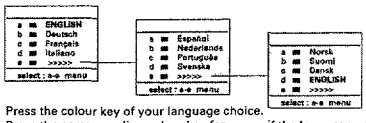
You can choose **for yourself** the language of the menus - the instructions and the various possible choices - which you call up on your screen.

○ Open the control panel on the front of your TV.

○ Press **Install**.
If the message CHILD LOCK ON appears, the child lock should be switched off.
▷ The SYSTEM INSTALLATION menu appears on the screen.

It is also possible to enter the installation menu via the main menu.

○ Press the red key a on the remote control.
▷ The language menu appears on the screen.



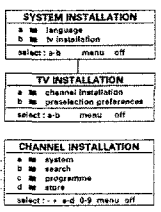
○ Press the colour key of your language choice.
○ Press the corresponding colour key for >>>>> if the language you want does not appear on the first language menu.

▷ LANGUAGE STORED appears for a moment at the top of the menu.
The language menu disappears and the SYSTEM INSTALLATION menu appears again.
From this point on, all menus are presented in the language of your choice.

Have you pressed the wrong key ?
Press the red key a for **language** *again and make a new choice.*

Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.
Within the installation menu you yourself assign each of these TV channels a number and a name of your own choice, which are then used to call the channels up for viewing.



○ Press the green key b.
▷ The TV INSTALLATION menu appears.

Is the menu that appears not in your chosen language ?
Press the MENU *key and go back to* **3**. *Select your menu language.*

○ Press the red key a.
▷ The CHANNEL INSTALLATION menu appears.

Now follow very closely and step by step the instructions of the CHANNEL INSTALLATION *menu. You must go through every step. Do this for every TV channel.*

Selecting the TV system

The television picture is not broadcast in the same way in all countries.
We speak of different television systems (PAL, SECAM, NTSC,....)
Now you must select the TV system **yourself**.

○ Press the red key a.

▷ The SELECTING THE SYSTEM menu appears..... **or**

1 You have your own aerial.
○ Press the colour key of the country or part of the world from where you want to select the TV channel.
▷ The CHANNEL INSTALLATION menu now appears.
▷ Your selection lights up.

2 You are connected to the cable system.
○ Press the colour key of the country or part of the world where you now are located.
▷ The CHANNEL INSTALLATION menu now appears.
▷ Your selection lights up.

ONLY ONE SYSTEM AVAILABLE appears

You have a set that can receive only one system.
You do not need to make any selection.

Searching for a TV channel

This can be done in two different ways :
Either automatic searching or else entering a frequency yourself.

Automatic searching.....**or**.....***Entering a frequency yourself***.....

The TV itself searches for the channel.

○ Press the green key b.
▷ SEARCHING appears and the TV is searching for a channel.
▷ The frequency increases until a channel is found.

Go on to step c if you want to store the channel that has been found.
○ Press ⊡ under the door of the remote control to recognise which programme is being broadcast.
▷ The CHANNEL INSTALLATION menu disappears temporarily.

Do you want a different channel or is the reception poor ?
○ Press the green key b again.

Is the reception still poor ? See Tips.

If no TV channel is found, interrupt the automatic searching by pressing any digit key. Check if you have selected the correct TV system or if the aerial is connected properly.

A TV channel is transmitted at a certain frequency.
If you know the frequency, you can enter it directly and in this way call up the TV channel.
Ask for a list of the frequencies at your cable company or at a dealer.

○ First enter the **5** digits of the desired frequency.
○ *For frequencies under 100 MHz, first enter a* **0**. For example : 063.25.

Have you entered a wrong number ?
First complete the frequency with arbitrary numbers and then start again.

Fine-tuning

You may be able to improve the reception of picture and sound of a TV channel.
Adjust the frequency yourself with the MENU - or + key on the remote control.

Entering the programme number and name

Now you **yourself** must assign a number of your choice and a name to the TV channel located. In this way you decide for yourself the order of all your TV channels.

With the assigned programme number you can call up your TV channel again later.
A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 29. For example : SUPER, BBC1, ...
Thus you see immediately which TV channel you have stored under which programme number.

○ Press the yellow key c.
▷ NAMING THE PROGRAMME appears.
○ *Press the red key a.*
○ Hold down the **P** - or **+** key on the remote control until the desired programme number appears in the menu.

In this list you can now enter the name of the TV channel.
With the arrow under the letter and number line you select which letter or which number in the list above you wish to enter.
In the list there is a red block next to the chosen programme number.

○ Hold, as desired, either the green key b down to move the arrow to the left, or else the yellow key c to move the arrow to the right.
▷ The letter or number that you indicate with the arrow appears in the block.
○ Press the blue key d.
▷ The block moves over one space.
Now you can choose a following letter or number with the arrow.
○ Place the arrow between **z** and **0** for a space.

Did you fill in a wrong letter or number ?
Press repeatedly on the blue key d until the block is back in the place where you want to make a change.
Now choose with the arrow the correct letter or the correct number.

Is the complete name filled in ?
○ Then press MENU.
▷ The CHANNEL INSTALLATION menu appears again.

Storing

Now the TV system, the located TV channel, its programme number and its programme name must be stored in the memory.

○ Press the blue key d.
▷ PROGRAMME STORED appears briefly at the top of the menu.
▷ The TV channel is stored in the memory.

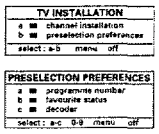
out

Do you want to exit the CHANNEL INSTALLATION menu or have you finished locating TV channels ?

○ Press MENU.
▷ The TV INSTALLATION menu appears

Preselection Preferences

All the stored TV channels have been automatically placed into the programme list. In the **PRESELECTION PREFERENCES** menu you yourself should indicate for each stored TV channel if you want to keep that programme number as a favourite.
You can do this also for a programme number you want to reserve for the programmes you receive from your decoder.
This will make selecting your favourite TV channels a lot easier and faster.



Favourite TV channels

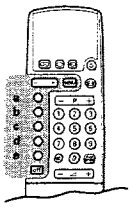
- Press the green key b in the **TV INSTALLATION** menu.
- The **PRESELECTION PREFERENCES** menu appears.
- Press the red key a.
- **PROGRAMME NUMBER** lights up.
- Select the programme number of a TV channel with **MENU** - or + or with the digit keys.
- Press the green key b.
- **FAVOURITE STATUS** lights up.
- Press **MENU** - or + to select **NO** or **YES**.
  In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
- Repeat this for each programme number.
- From now on when you run quickly through the TV channels by holding the **P** - or + key pressed down, only those TV channels which are in the favourite list will be displayed.
  When you select a TV channel with the digit keys, the indication of the selected TV channel will be displayed in white characters when it is a TV channel from the favourite list, in red characters when it is a TV channel which is not in the favourite list.

Decoder

In case you have connected a decoder, see Decoders , you can define one or more programme numbers as a decoder preselection.

- Press the red key a in the **PRESELECTION PREFERENCES** menu.
- **PROGRAMME NUMBER** lights up.
- Select the programme number under which you want to store the programme coming from your decoder with **MENU** - or + or with the digit keys.
- Press the yellow key c.
- **DECODER** lights up.
- Press **MENU** - or + repeatedly until the designation **EXT1** or **EXT2** appears according to the euroconnector to which you connected your decoder.
  Select **NO** if you do not want the selected programme number being activated as a decoder preselection.
- Press **MENU** twice.
- The **SYSTEM INSTALLATION** menu appears again.

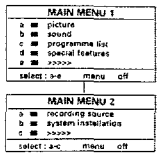
Main Menu



You use the keys in the grey area of the drawing to operate the main menu.

With the colour keys a-b-c-d-e you select your choice in the menus.

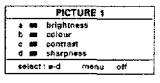
The main menu is split into 2 menus and you can:
. adjust **picture** and **sound** according to personal preference
. call up a **programme** list with an overview of the TV channels stored
. select from among various **special features**
. select **recording sources** for your video recorder
. enter the **system installation** menu.



- Press **MENU**.
- The **MAIN MENU** appears.
- Press **off** to switch off each menu.

Adjusting the picture

- Press **MENU**.
- Press the corresponding colour key for **PICTURE**.
- The **PICTURE** menu appears

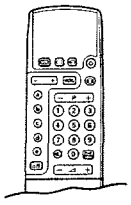


- Press one of the colour keys to select the adjustment you want to regulate.
  When you have a set that can receive the NTSC system and when **USA** is selected in Selecting the TV system, also the option **tint** appears.
- The selected adjustment lights up.
- Press **MENU** - or + in order to regulate the selected adjustment.
- Press a colour key once more in order to select another adjustment.

Do you want to store the changed adjustment in the memory ?
- See Special Features, PP store,.

- Press **MENU**.
- The **MAIN MENU** appears again.

Operation



Every time you press a key on the remote control, the green lamp ⏻ on the front of your TV set blinks.

Switching TV on

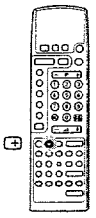
- Press ⏻ on the front of your TV.
- A green lamp ⏻ lights up. **PR1** appears briefly and possibly also the programme name.

- Does a red lamp ⏻ light up ?
  Your TV is on standby. Read on.

Standby

- With the standby key ⏻ at the top of the remote control you can temporarily switch the TV off.
- The lamp ⏻ on the TV lights up.
- Press a digit key in order to turn the TV on again.
  If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby.
  Switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which supports good picture quality.

Selecting TV channels



- Select the TV channel with the digit keys on the remote control.
- For a two-digit programme number, enter the second digit within 2 seconds.
- If you want to know which channel you are watching, open the door of the remote control and press ⊡ short.

Quickly run through the TV channels from the Favourite list.
- Hold the **P** - or + key pressed down.

Volume control

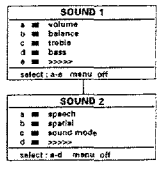
- Press ◿ - or +.

Temporarily interrupt the sound

- Press 🔇.
- The sound is temporarily interrupted.
- The lamp 🔇 on the front of the TV lights up.
- Press 🔇 again to get the sound back.

Adjusting the sound

- Press **MENU**.
- Press the corresponding colour key for **SOUND**.
- The **SOUND 1** menu appears.



Volume, balance, treble, bass
- Press one of the colour keys to select the adjustment you want to regulate.
- The selected adjustment lights up.
- Press **MENU** - or + in order to regulate the selected adjustment.
- Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?
- Press **MENU**.
- The **MAIN MENU** appears.
- See Special Features, PP store.

Speech
- Press the white key e in the **SOUND 1** menu.
- The **SOUND 2** menu appears.
- Press the corresponding colour key for **SPEECH**.
- **SPEECH** lights up.
- Press **MENU** + to reveal the treble and to suppress the bass.
- Press **MENU** - to switch off.

Spatial sound
- Press the corresponding colour key for **SPATIAL** in the **SOUND 2** menu.
- **SPATIAL** lights up.
- Press **MENU** - or + to switch off or on.
- When **SPATIAL ON** is selected, it seems as though the loudspeakers are spread further apart from one another. You get a spatial sound effect.
- The lamp ⊛ on the TV lights up.

Mono broadcasting
- Select **SPATIAL ON**.
- The lamp ⊛ on the front of the TV lights up.
- You get a pseudo stereo effect.

Stereo broadcasting
- The lamp ⊙⊙ on the front of the TV lights up.
- Select **SPATIAL ON**.
- The lamps ⊙⊙ and ⊛ on the front of the TV lights up.
- You get a spatial stereo effect.

Sound mode
- Press the corresponding colour key for **SOUND MODE** in the **SOUND 2** menu.
- **SOUND MODE** lights up.
- If the TV channel which you are now watching transmits stereo or digital sound you can choose between :
  . ***stereo*** *or* ***mono*** *if the TV channel transmits stereo* sound
  . **digital** or **analogue** if the TV channel transmits *digital* sound.
- Select **analogue** or **mono** in case of weak digital or weak stereo sound signals.
- Press **MENU** - or +.

If you do not make a sound choice for the TV channel which you are watching your TV will choose between stereo or digital sound, depending on the sound the TV channel transmits.

- Press MENU.
- ▷ The MAIN MENU 1 appears again.
- Press off to switch off each menu.

Programme list

- Press MENU.
- Press the corresponding colour key for PROGRAMME LIST.
- ▷ A list with an overview of the stored TV channels appears.
  TV channels from the favourite list are displayed in white characters.
  TV channels which are not in the favourite list are displayed in red characters.
- Press MENU.
- ▷ The MAIN MENU 1 appears again.

- Press off.
- ▷ The MAIN MENU disappears.

Special features

- Press MENU.
- Press the corresponding colour key for SPECIAL FEATURES.
- ▷ The SPECIAL FEATURES menu appears.

- Press a colour key in order to choose between child lock, sleeptimer, pp store, demonstration or pip size (for TV sets with the picture in picture option).
- ▷ Your choice lights up.
- Press once more on a colour key to make another choice.

Child lock
If the child lock is on, the TV can only be switched on with the digit keys on the remote control. The keys on the TV cannot be used.
- Press the corresponding colour key for CHILD LOCK.
- Press MENU - or + to switch the child lock off or on.

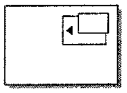
Sleeptimer
With the aid of the sleeptimer you can set the time when the TV should switch itself off.

- Press the corresponding colour key for SLEEPTIMER.
- Hold the key MENU + pressed down.
- ▷ The counter runs from off up to 90 minutes.
- Hold the key MENU - pressed down.
- ▷ The counter runs from 90 down to off.
  If you have set a time, then one minute before the TV switches off the remaining minute automatically appears on the screen.
  You can always switch off your set earlier.
  Up to the last minute you can always change the time set.

PP store
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the PP key.
- Press the corresponding colour key for PP STORE.
- ▷ PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu.
  At this point all previous adjustments are cancelled.

Demonstration
This function demonstrates one after another all the possible options of your TV.
- Press the corresponding colour key for DEMONSTRATION.
- Press MENU + to switch the demonstration on.
- Press off in order to stop the demonstration.

Pip size
You can select either a large or a small pip format.



- Press the corresponding colour key for PIP SIZE.
- Press MENU - or +.
  For more information about Pip, see Pip, Picture in Picture.

Recording Source

If you want to record a programme, then first read Peripherals, Recording.

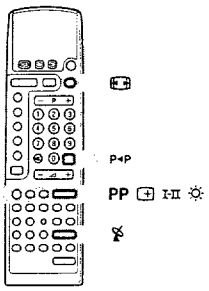
System Installation

You can also enter the System Installation menu via the Main Menu 2 to select your menu language and to locate and to store your TV channels.
- Press MENU.
- Press the corresponding colour key for SYSTEM INSTALLATION.
- ▷ The SYSTEM INSTALLATION menu appears on the screen.
- Now follow very closely and step by step the instructions as described on page 4 and following.

OFF

- Press MENU to leave the SYSTEM INSTALLATION menu.
- Press off to leave the SYSTEM INSTALLATION menu or the MAIN MENU.

Other functions



Movie compress

Movies and other new programmes in the future are broadcast in the Wide Screen format.
D2-MAC satellite programmes in the Wide Screen format recorded on a video recorder or prerecorded Wide Screen tapes can be reproduced on a normal TV screen in a conventional picture format.

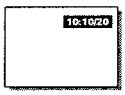
- Press ⊡.
- ▷ The picture is compressed.
  There are black bars at the top and bottom of the screen.
- Press ⊡ again to switch off movie compress.
  When you have a Wide Screen format video recorder connected with a eurocable, the pictures will be compressed automatically.

Previous programme

- Press the P↩P key.
- ▷ The previous selected TV channel is displayed again.
  The ↩ indication has a video recorder function.

Time

The time can only be called up if the TV channel you are watching is also broadcasting teletext.
Teletext does not need to be switched on.



- Open the door of the remote control.
- Press ⊡.
- ▷ The time appears in the upper right hand corner of the screen.
- Press ⊡ again in order to switch off.

Selecting satellites

The keys ⚷ - and + are only functional when having connected a satellite tuner in combination with a satellite positioner and an automatically rotatable polarmount antenna to select satellites.

PP key

With the green PP-key you can call up again the picture and sound adjustments which have been stored with the PP store in the Special Features menu.
- Open the door of the remote control.
- Press PP.

Information on screen

After the selection of a TV channel the following information appears briefly on your screen :
. the programme number and name of the selected TV channel
. the actually selected sound mode if the TV-channel transmits stereo or digital sound
. the name of the pip connection if pip is switched on.
See Pip-Picture in Picture.

- Open the door of the remote control.
- Press ⊡ short.
- ▷ The channel information appears on the screen for a few seconds.
- ▷ If the sleeptimer is on, then the remaining time becomes visible.

Permanent Programme number

- Open the door of the remote control.
- Press ⊡ long.
- ▷ The channel information appears on the screen for a few seconds.
  The permanent programme number remains in the upper right hand corner of the screen when it was off, or disappears when it was on.

Bilingual Broadcast

If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, the lamp I or II on the front of your TV lights up.

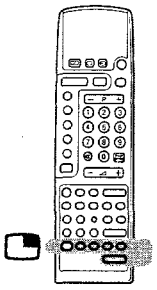
I-II

- Open the door of the remote control.
- Press key I-II and select language I or II.
- ▷ The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.

Brightness

- Open the door of the remote control.
- Press ☼ - or + in order to adjust the brightness.

Pip - Picture in Picture

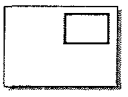


For TV sets with the Picture in Picture option.

With pip, picture in picture, you can call up a little screen within the main TV screen. Thus at the same time you can watch a programme from other equipment, connected with a eurocable.

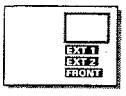
The picture in the small screen has no sound.

Switching pip on and off



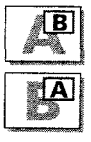
- Open the door of the remote control.
- Press .
- ▷ The pip screen appears and the image is the same as in the main screen.
- ▷ The name of the pip programme appears briefly on the main screen.
- Press again to switch pip off.

Selecting pip connections



- Press repeatedly.
- ▷ The name of the connections appear.
  If any other electronic unit is connected and switched on, then its programmes appear in the pip screen.
  Select on your video recorder the TV channels which you have stored in it.
  For connecting equipment to EXTERNAL 1, EXTERNAL 2, FRONT, see Peripheral Equipment.

Switching screens

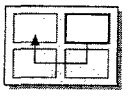


- Press .
- ▷ The main screen and the pip screen exchange places.
  If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

Still Picture

- Press .
- ▷ The picture in the pip screen stands still.
  Even when pip is not switched on, the main screen will appear as a still picture in the pip screen.
- Press again or select another channel in the pip screen in order to cancel the still picture.

Moving the Pip screen

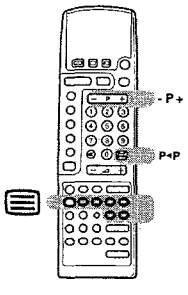


- Press .
- ▷ Each time you press this key, the pip screen moves to another corner of the main screen.

Pip Size

You can select either a large or a small pip screen.
See Main Menu : Special Features.

Teletext



Most TV channels broadcast information via teletext. Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the index (usually page 100). TV programmes are sometimes subtitled for the hard of hearing. Depending on the TV channel, teletext is transmitted in different systems: WST, TOP, FLOF. The system utilised is indicated in the options line at the bottom of the screen.

WST TOP FLOF

Switching Teletext On and Off

- Select the TV channel for the desired teletext broadcast.
  Teletext cannot be switched on when there is a menu on the screen.
- Open the door of the remote control.
- Press in order to switch on the teletext.
- ▷ The contents appear on the screen together with two information lines at the top and an options line at the bottom.

When a selected teletext page contains several subpages, the subpage numbers which are automatically stored in the memory appear in the first information line. The coloured number indicates the displayed subpage. The white numbers refer to the subpages which can be selected with MENU - or +.

In the following information line appears:
. the name of the TV channel selected
. the page counter
. date and time.

- Press again in order to switch off the teletext.
- > The TV channel reappears.

Easy Teletext system

The major advantages of this new teletext system are :

A considerable **reduced waiting time** by predicting what the user will probably select and which results in :
. a fast and direct selection of previous and following pages which are in transmission
. the precapturing of the pagenumbers read from the displayed page
. the direct selection of the last 2 page numbers selected with the digit keys
. the precapturing of the pages referred to in the options line
. the creation of a **habit watcher list** : not predictable pages, being selected by the user, are put in a list of preferred pages so that they are immediately available afterwards.

The precapturing of up to **9 subpages** to be controlled by the teletext user.

Selecting a Teletext Page

With the digit keys ..... **or** **With the options line** .....

- Enter the desired page number with the digit keys.
- ▷ The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
- ▷ A message appears when you have entered a not existing or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
- Enter the correct page number.

- Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext the selected TV channel transmits,
  - the previous or the following pages
  - the previous selected pages
  - another subject

Quickly run through the teletext pages

- Press P - to run through the previous pages.
- Press P+ to run through the following pages.

Selecting the previous teletext page

- Press the P↔P key.
- ▷ The previous selected teletext page is displayed again.

Selecting subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
The coloured number in the first information line refers to the displayed subpage.
The other subpage numbers appear in white as soon as the transmission has found them.

- Press MENU - to select the previous subpage.
- Press MENU + to select the following subpage.

Selecting the table of contents

- Press the white colour key e.
- ▷ The table of contents appears.

Special teletext functions

Hold
You can stop the page counter from seeking when you have entered a wrong page number or when the page is not available.

- Press .
- ▷ appears in the first information line.
  The page counter stops seeking the entered page number.
- Enter another page number.
- ▷ disappears.

Reveal
Some pages contain concealed information, such as solutions to riddles and puzzles.

- Press ? to call up concealed information.
- Press ? again in order to switch off the concealed information.

Interrupt

- Press X.
- ▷ The TV programme appears.
- ▷ at the top of the screen indicates that you are still in the teletext mode.
  Before interrupting teletext, you can select a page number.
  When the page has been found, the information line appears briefly on your screen.
- Press X again.
- ▷ Teletext reappears.

Mix

- Press .
- ▷ The teletext page and the TV programme appear on the screen at the same time.
- Press again.
- ▷ Only the teletext page is displayed.

Enlarge

- Press to enlarge the top half of the teletext page.
- Press again to enlarge the bottom half of the teletext page.
- Press once more to return to normal page size.

Subpage
By adding a subcode you can call up a desired subpage.

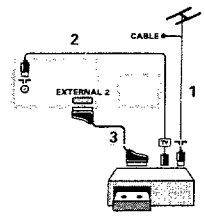
- Enter the page number.
- Press .
- Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
- Press in order to cancel the subcode.

Subtitles and newsflashes

- Select the contents page (usually page 100).
- Select the page number for subtitles or newsflashes.
- ▷ Subtitles or newsflashes, if there are, appear at the bottom of the TV programme.

Peripheral Equipment

There is a wide range of electronic equipment that can be connected to your TV.
The following connection diagrams show you where the different equipment should be connected at the back or the front of the TV.



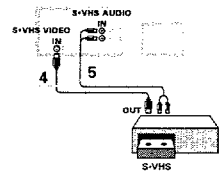
TV and video recorder

- Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect a eurocable **3** additionally.

S-VHS video recorder

- Do you have a S-VHS video recorder with S-VHS cinch connectors, then connect as well as the aerial cables **1** and **2**

the S-VHS cables **4** and **5**



Do not connect an additional eurocable.

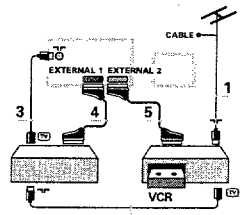
OR

- Do you have a S-VHS video recorder with a S-VHS euroconnector, then connect as well as the aerial cables **1** and **2**, the S-VHS eurocable **3**.

Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector.
The euroconnector has no function.

Searching for and storing the testsignal of the video recorder

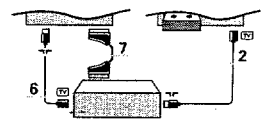
- Unplug the aerial cable of the aerial socket "IT" of your video recorder.
- Switch on your TV and video recorder.
- Press the **Install** key at the front of your TV, or enter the System Installation menu via the main menu.
- ▷ The **SYSTEM INSTALLATION** menu appears.
- Search for the testsignal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels.
  Store the testsignal either under programme number **0** or between **50** and **59**.
- Insert the aerial plug again into the aerial socket "IT" of your video recorder after you have stored the testsignal.



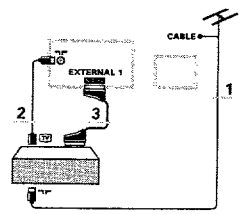
TV, video recorder 1 and one or more peripherals

- Connect the aerial cables **1**, **2** and **3** as shown alongside. A better picture quality is obtained if you connect the eurocables **4** and **5** additionally.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.

When having more than one peripheral, connect them to each other with an extra aerial cable **6** and an additional eurocable **7** to obtain a better picture quality.



Only with a video recorder connected to **EXTERNAL 2** it is possible to record a programme from your TV as well as from other connected equipment. See Recording with your video recorder.



TV and laser disc or satellite tuner

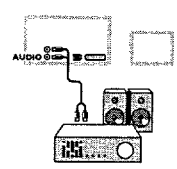
- Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect the eurocable **3** additionally.

Look for the test signal of your equipment in the same way as you do for a video recorder.

Audio equipment

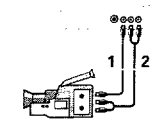
You can listen to your TV sound via your audio equipment.

- Therefore connect the audio cables to the audio input of your equipment and to **AUDIO L** and **R** at the back of your TV.
- Press 🔇 on the remote control.
- ▷ The loudspeakers of your TV are switched off.



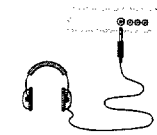
Camera and camcorder

- Connect your camera or camcorder to **FRONT** at the front of your TV.
- Connect the equipment to **Video** 1 and **Audio** L 2 for mono equipment.
- In the **SOUND** menu select mono sound. See Main Menu, Adjusting the sound, Sound mode
- Connect **Audio R 2** for stereo equipment.
- In the **SOUND** menu select stereo sound.



Headphone

- Insert the plug into the headphone socket 🎧 at the front of the TV.
- Adjust the volume with ◿ - or +.
- Press 🔇 on the remote control.
- ▷ The internal loudspeakers of your TV are switched off.
  The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

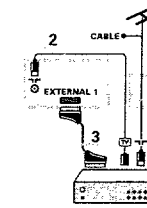


Decoders

Cable TV offers you a wide choice of programmes. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.
For further information, ask your dealer. See also the booklet supplied with your decoder.

Connecting a decoder with an aerial socket to the TV

- Connect the aerial cables **1** and **2** as shown alongside.
  When your decoder has a euroconnector you obtain a better picture quality if you connect a eurocable **3** additionally.



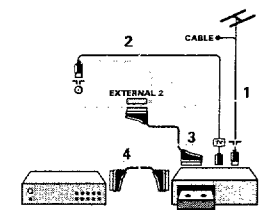
Connecting a decoder without an aerial socket to the TV

- Connect the decoder with your TV with a eurocable **3** only.

Connecting the decoder to the video recorder

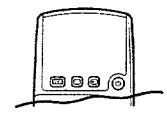
Some video recorders have a special euroconnector for decoder.

- Connect a eurocable to the euroconnector of your decoder and to the special euroconnector of your video recorder.
  See also the handbook of your video recorder.
- To connect your video recorder to the TV, see before.



If you want to connect more equipment to your TV, consult your dealer.

Reproducing Picture and Sound



Most of the audio and video equipment from our range of products can be operated with the remote control.

a. from equipment connected only with an **aerial cable**

- Switch your TV on.
- With the digit keys select the programme number under which you have stored the test signal.
- Switch on the equipment with the remote control.
- ▷ The picture and/or sound is reproduced.

Do you want to watch TV again ?

- Enter the programme number of the TV channel which you want to watch with the digit keys.

b. from equipment connected with a **eurocable**

- Switch your TV on.
- Switch your equipment on.
- ▷ Either the picture and/or the sound is reproduced or descrambled.

If this is not the case :

- Press ⊏▯ repeatedly until the designation **EXT1**, **EXT2** or **FRONT** appears on the screen, according to where you connected your equipment at the back or the front of your TV.
- ▷ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?

- Press ▢.

c. from a S-VHS recorder connected with **S-VHS cables**

- Switch your TV on.
- Press ⇄ until the indication EXT2 appears on the screen.
- Switch your S-VHS recorder on.
- ▷ The picture stored in your video recorder from a pre-recorded cassette or from a TV channel is reproduced.

d. from equipment connected to the **front** of the TV

- Switch your TV on.
- Press ⇄ repeatedly until the indication FRONT appears on the screen.
- Switch your equipment on.
- ▷ The picture is reproduced.
  Do you want to watch the TV picture again ?
- Enter the programme number of the TV channel which you want to watch with the digit keys.

Operating the video recorder with the TV remote control

- Keep the **VCR** key pressed and press one of the video recorder keys of the remote control at the same time.

VCR + ▶ for play
VCR + ● for record
VCR + ■ for stop
VCR + ◀◀ for rewind
VCR + ▶▶ for wind
VCR + ⏻ for timer.

Recording with your video recorder

1. Recording a TV programme

only using an **aerial** cable

- Select the programme number on your video recorder.
- Press record ● under the door of the remote control or on your video recorder.

using a **eurocable** connected to the euroconnector EXTERNAL 2

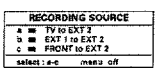
- Select the programme number on the TV.
- Press MENU.
- Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▷ RECORDING SOURCE appears.
- Press the red key a.
- ▷ TV TO EXT 2 is displayed.
- Set your video recorder to record.
  (See the handbook for your video recorder.)
- Press record ● under the door of the remote control or on your video recorder.

using a **eurocable** connected to the euroconnector EXTERNAL 1

- Select the programme number on the TV.
- Set your video recorder to record.
  (See the handbook for your video recorder.)
- Press record ● under the door of the remote control or on your video recorder.

2. Recording a programme from connected peripheral equipment

- Switch on the equipment.
- Press MENU.
- Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- ▷ RECORDING SOURCE appears.
- With the colour keys select the connection from which you want to record.
- ▷ Your selection lights up.
- Set your video recorder to record.
  (See the handbook for your video recorder.)
- Press record ● under the door on the remote control or on your video recorder.



Tips

Poor Picture
Have you selected the correct TV system ?
Is your TV set or house aerial located too close to loudspeakers,non-earthed audio equipment or neon lights, etc. ?
Mountains or high buildings can cause double pictures or ghost images.
Sometimes you can improve the picture quality by changing the direction of the outside aerial.
Is the picture unrecognisable ? Check if you have entered the correct frequency or adjust the frequency by fine tuning. See Installation, p. 5.
Are brightness and contrast out of adjustment ? Press the PP key.
Switch off your TV overnight with ⏻ on the front of the TV.

No picture
Is the aerial connected properly ? Are the plugs tightly connected in the aerial socket ?
Is the aerial cable in good condition and does it have suitable plugs ? Are the connection facilities to a possible secondly installed TV in good condition ? If in doubt, consult your dealer.
NO PICTURE means that the selected peripheral equipment is transmitting no picture.
Did you press the correct keys on the remote control ?
Try it once more.
Did you press ▤ again after switching on teletext ?
Has the child lock been switched off ? See Special Features, p. 14

Sound
Did you perhaps interrupt the sound with the 🔇 key ?
Were the internal loudspeakers perhaps switched off by the switch on the back of your TV set ? See Extra loudspeakers, p. 27.
Is the sound coming out of only one loudspeaker ? Was the balance perhaps set to one extreme ? See SOUND menu, p. 12.
Select SPATIAL ON in the Sound menu if there is no sound coming out of the extra loudspeakers in back. See Spatial and Surround Sound, p. 12.

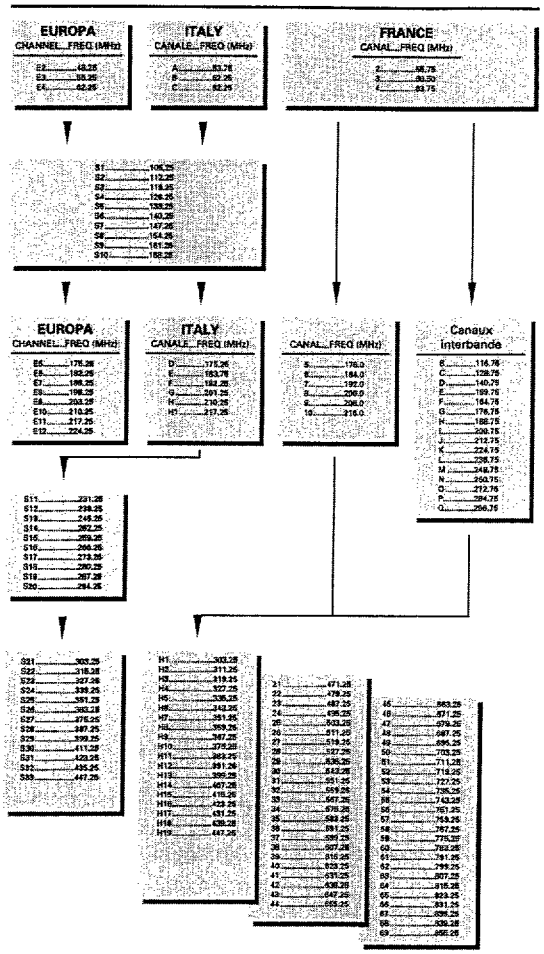
Remote control
Does your TV no longer respond to the remote control ? Press the ▢ key again.
Perhaps the batteries are empty. See Preparation, p. 2.

Menu
Did you select the wrong menu ? Once more press MENU or off to exit from the menu.

Connections
Check whether your peripheral equipment is in fact properly connected.
Have you switched on the peripheral equipment ?

Table of TV frequencies.
Frequenztabelle der Fernsehsender.
Liste des fréquences des émetteurs.
Frequentietabel TV-zenders.
Tabella delle frequenze delle trasmittenti.
Lista de frequências.

Tabla de frecuencias de transmisión de televisión.
Frekvens oversigt.
Frekvenstabell.
Tabell över TV-frekvenser.
TV-taajukksien taulukko.



GB
The frequencies used by a cable company may differ from the frequencies on the table. Consult your cable company or your dealer for detailed information.

D
In Kabelfernsehanlagen können Abweichungen von den in den Frequenztabellen aufgeführten Frequenzen vorkommen. Bitte wenden Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zutreffenden Frequenzen mitteilt.

F
Les fréquences utilisées par une société de télédistribution peuvent être différentes de celles sur la liste des fréquences. Consultez votre société de télédistribution ou votre revendeur pour des informations plus détaillées.

NL
De frequenties die gebruikt worden door een kabelmaatscheppij kunnen verschillen van deze op de tabel. Raadpleeg uw kabelexploitant of uw handelaar voor meer informatie.

I
Le frequenze usate da una società di teledistribuzione possono essere differenti da quelle sulla tabella. Consultate la società di teledistribuzione o il vostro rivenditore per informazioni specifiche.

E
Las frecuencias utilizadas por las empresas de distribución de señal por cable, pueden ser diferentes de las que se encuentran en esta tabla. Consulte con su compañía de distribución de televisión por cable o con su distribuidor para que le proporcionen una información más detallada.

P
As frequências utilizadas por uma sociedade de teledistribuição podem ser diferentes das indicadas na lista de frequências. Consultar a sociedade de teledistribuição ou o vendedor para informações mais detalhadas.

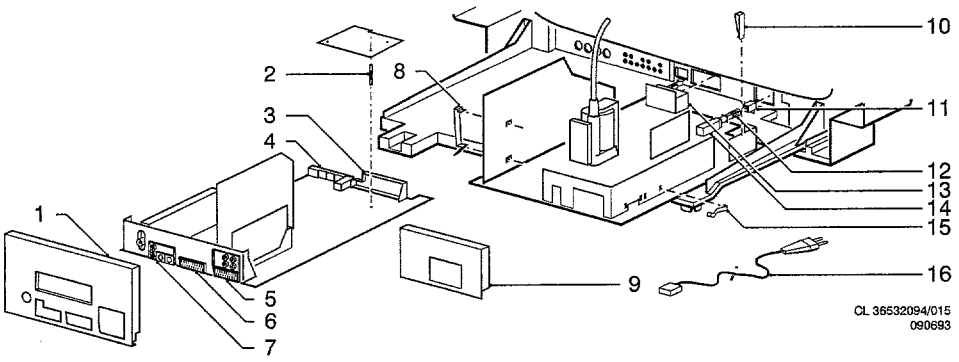
DK
Frekvenser benyttet af kabel operatører kan være afvigende fra disse, kontakt deres kabel operatør eller forhandler for nærmere information.

N
Frekvensene som benyttes pa et kabelnett kan avvike fra de som er oppført i tabellen. Kontakt ditt kabel-TV selskap eller din forhandler for nærmere opplysninger.

S
Frekvenserna som används i kabel-TV-näten kan avvika fran frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare för vidare information.

SF
Kaapeliyhtiöden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiösta tai myyjältä.

10. Exploded view & Mechanical parts list



MECHANICAL COMPONENTS LSP AND SSP

1	4822 432 93138	Cover SSP
2	4822 466 92954	Spacer
3	4822 218 21084	Keyboard
4	4822 267 20408	Headph./cinch connector
5	4822 267 20457	Euro/2 x cinch connector
6	4822 267 51058	Euro connector
7	4822 267 20409	Cinch/SVHS connector
8	4822 492 70789	Spring
9	4822 432 92991	Cover LSP
10	4822 492 62067	Spring
11	4822 404 31156	Extension mains knob
12	4822 492 52218	Spring
12	4822 492 52338	spring 21"
13	4822 466 93002	Led block
13	4822 130 91183	Led block 21"
14	4822 276 12998	Mains switch
15	4822 492 70143	Spring
16	4822 321 10736	Mains cord
	4822 404 31167	Bracket for mains cord

Large signal panel [A] [B] [G]

Connectors

	4822 265 30525	2P male white
	4822 265 20541	2P male black
▲	4822 265 40469	6P female gold plated
	4822 265 40472	10P female gold plated
	4822 290 40295	7P male grey
	4822 265 40818	8P male grey
	4822 267 40985	6P male black
	4822 264 40207	3P male grey
	4822 265 40421	6P male grey
▲	4822 265 30389	2P male
▲	4822 265 40596	2P male
	4822 265 20509	2P male grey
	4822 265 20512	2P male green
	4822 265 20511	2P male blue
	4822 267 50591	6P male gold plated
	4822 264 50149	10P male gold plated
	4822 267 30871	2P female
	4822 266 20163	2P black

Various

	5322 390 20011	silicone grease
	4822 492 70143	spring 10 X 33mm
	4822 492 62076	spring fix transistor
	4822 492 70789	spring fix transistor
▲	4822 276 12998	mains switch
▲	4822 256 30496	fuse holder
	4822 310 31921	SOPS repair kit
1010	4822 212 23892	NTSC assy
1200	4822 070 32502	fuse T2,5A

2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2004	4822 122 32142	270pF 2% 63V
2005	4822 122 32142	270pF 2% 63V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	4822 122 32597	6,8nF 10% 63V
2014	4822 122 32597	6,8nF 10% 63V
2015▲	4822 124 42109	22µF 10% 50V
2016▲	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2023	5322 122 33446	3,3nF 10% 63V
2024	5322 122 33446	3,3nF 10% 63V
2025	4822 122 10167	22nF 30% 25V
2026	4822 122 32927	220nF 20% 50V
2027	4822 122 32927	220nF 20% 50V
2038	4822 122 31644	2,2nF 10% 63V
2043	4822 122 32927	220nF 20% 50V
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V

2060	4822 122 31773	560pF 2% 63V
2065	4822 126 11156	684nF 20%
2066	4822 126 11156	684nF 20%
2070	4822 124 40272	33µF 20% 16V
2071	4822 124 23489	33µF 20% 25V
2072	4822 124 41584	100µF 20% 10V
2073	4822 124 21212	15µF 20% 40V
2074	5322 122 31647	1nF 10% 63V
2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V
2210	4822 126 11141	2,2nF 10% 1kV
2211	4822 126 11141	2,2nF 10% 1kV
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2230	4822 122 31784	4,7nF 10% 50V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 21511	2200µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 21511	2200µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
2239	4822 124 40193	68µF 20% 16V
2240	4822 124 42183	1000µF 20% 63V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 122 31784	4,7nF 10% 50V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 40849	330µF 20% 16V
2270	4822 124 41584	100µF 20% 10V
2272	4822 122 33496	100nF 10% 63V
2302	4822 122 31965	220pF 2% 63V
2303	4822 122 31767	150pF 2% 63V
2308	4822 122 32891	68nF 10% 63V
2321	4822 121 51319	1µF 10% 63V
2331	4822 122 32891	68nF 10% 63V
2351	4822 121 41854	150nF 5% 63V
2360	4822 122 31981	33nF 5% 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	4822 124 40272	33µF 20% 16V
2380	4822 122 33496	100nF 10% 63V
2381	4822 122 33496	100nF 10% 63V
2382	4822 122 33496	100nF 10% 63V
2386	5322 122 31647	1nF 10% 63V
2400	4822 122 31772	47pF 2% 63V
2401	4822 122 33496	100nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	5322 124 41431	22µF 20% 35V
2404	4822 124 40435	10µF 20% 50V
2405	4822 122 33496	100nF 10% 63V
2406	4822 121 42937	2,7nF 1% 250V
2407	5322 122 33446	3,3nF 10% 63V
2408	4822 126 12831	390pF 10% 100V
2409	4822 122 31797	22nF 10% 63V

2410	4822 121 51244	330nF 5% 50V
2411	4822 121 51244	330nF 5% 50V
2415	4822 122 33496	100nF 10% 63V
2416	4822 122 33496	100nF 10% 63V
2417	4822 122 32808	1,2nF 10% 63V
2418	4822 122 31797	22nF 10% 63V
2419	4822 124 40849	330µF 20% 16V
2420	4822 122 31772	47pF 2% 63V
2421	4822 122 33496	100nF 10% 63V
2422	4822 122 33496	100nF 10% 63V
2423▲	4822 122 32442	10nF 50V
2424	4822 121 51565	4,7nF 1% 250V
2425	4822 124 41577	4,7µF 20% 50V
2426▲	4822 122 32442	10nF 50V
2427	4822 122 31797	22nF 10% 63V
2428	4822 122 33496	100nF 10% 63V
2429	4822 122 33496	100nF 10% 63V
2445	4822 122 31974	820pF 10% 63V
2446	4822 122 32999	2,2nF 5%
2450▲	4822 122 32442	10nF 50V
2451	4822 122 31746	1000pF 2% 63V
2452	4822 124 41716	220µF 20% 35V
2455	4822 122 31771	390pF 2% 63V
2456	5322 124 41743	1500µF 20% 35V
2457	4822 124 42252	2,2µF 10% 50V
2457	4822 124 42249	1µF 10% 50V
2458	4822 122 31797	22nF 10% 63V
2459	4822 122 32891	68nF 10% 63V
2460	4822 122 33496	100nF 10% 63V
2480	4822 124 23495	10µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11501	1,5nF 10% 500V
2504▲	4822 126 11254	330pF 10% 2kV
2509	4822 126 12832	2,7nF 10% 100V
2511	4822 124 41739	47µF 20% 160V
2512	4822 124 40435	10µF 20% 50V
2513	4822 124 40435	10µF 20% 50V
2517	4822 126 11157	470pF 10% 500V
2518	4822 124 22449	4,7µF 30% 350V
2519	4822 124 80341	1µF 20% 160V
2520	4822 121 43844	300nF 5% 250V
2520▲	4822 121 51527	390nF 5% 250V
2521▲	4822 121 51528	470nF 5% 250V
2521	4822 121 51563	560nF 5% 250V
2521▲	4822 121 43397	680nF 5% 250V
2523▲	4822 122 33382	9,1nF 5% 2kV
2523	4822 121 70366	10nF
2524	4822 121 43845	18nF 5% 400V
2524▲	4822 121 51564	24nF 5% 400V
2528▲	4822 121 40336	47nF 10% 250V
2529	4822 124 23491	0,47µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11494	2,2nF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 126 11502	470pF 10% 500V
2537	4822 124 40184	1000µF 20% 10V
2541	4822 124 23489	33µF 20% 25V

2542	4822 124 22466	1µF 20% 50V
2543	4822 124 23495	10µF 20% 25V
2546	4822 122 33496	100nF 10% 63V
2547	4822 122 33608	39nF 10% 63V
2551	5322 122 33446	3,3nF 10% 63V
2600	4822 124 22427	47µF 20% 40V
2601	4822 122 33608	39nF 10% 63V
2604	4822 122 31965	220pF 2% 63V
2604	4822 122 32765	820pF 2% 63V
2604	4822 122 31773	560pF 2% 63V
2604	4822 122 31765	100pF 2% 63V
2605	4822 122 31784	4,7nF 10% 50V
2605	4822 122 31916	5,6nF 10% 63V
2605	4822 122 32856	8,2nF 10% 63V
2605▲	4822 122 32442	10nF 50V
2606	4822 122 33498	2,7nF 10% 63V
2606	5322 122 33446	3,3nF 10% 63V
2606	4822 122 32597	6,8nF 10% 63V
2609	4822 121 41854	150nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	5322 124 41379	2,2µF 20% 50V
2613	5322 122 33446	3,3nF 10% 63V
2613	4822 122 31784	4,7nF 10% 50V
2614	5322 122 32838	82nF 10% 63V

3000	4822 051 10163	16k 2% 0,25W
3001	4822 051 10163	16k 2% 0,25W
3019▲	4822 052 10828	8Ω2 5% 0,33W
3020▲	4822 052 10828	8Ω2 5% 0,33W
3027▲	4822 051 10103	10k 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029	4822 051 10123	12k 2% 0,25W
3030	4822 051 10123	12k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10102	1k 2% 0,25W
3033	4822 116 52244	15k 5% 0,5W
3034▲	4822 051 10472	4k7 2% 0,25W
3035	4822 051 10153	15k 2% 0,25W
3036	4822 051 10152	1k5 2% 0,25W
3037	4822 051 10152	1k5 2% 0,25W
3040	4822 051 10273	27k 2% 0,25W
3041	4822 051 10152	1k5 2% 0,25W
3044	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10102	1k 2% 0,25W
3050▲	4822 051 10103	10k 2% 0,25W
3051	4822 051 10203	20k 2% 0,25W
3052▲	4822 051 10472	4k7 2% 0,25W
3053▲	4822 051 10472	4k7 2% 0,25W
3054▲	4822 053 21475	4M7 5% 0,5W
3065	4822 051 10184	180k 2% 0,25W
3066	4822 051 10184	180k 2% 0,25W
3067	4822 116 52296	6k8 5% 0,5W
3068	4822 116 52207	1k2 5% 0,5W
3069▲	4822 051 10472	4k7 2% 0,25W
3072	4822 051 10479	47Ω 2% 0,25W
3073	4822 116 52257	22k 5% 0,5W
3074▲	4822 051 10103	10k 2% 0,25W

Large s

3201▲4822
3202▲4822
3203 4822
3204▲4822
3204▲4822
3209▲4822
3210 4822
3211 4822
3212 4822
3213 4822
3215 4822
3216▲4822
3235▲4822
3240 4822
3241 4822
3242 4822
3243 4822
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3245 4822
3247 4822
3248 4822
3249 4822
3250 4822
3251 4822
3252 4822
3253 4822
3255 4822
3266 4822
3267 4822
3268 4822
3270 4822
3271 4822
3272 4822
3273▲4822
3275 4822
3300 4822
3304 4822
3305 4822
3306 4822
3308 4822
3309▲4822
3310 4822
3311 4822
3312 4822
3313 4822
3314 4822
3315 4822
3317 4822
3320 4822
3321 4822
3322 4822
3331 4822
3332 4822
3351 4822
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3362 4822
3364 4822
3365 4822
3366 4822
3368 4822
3369 4822
3370 4822
3371 4822
3372 4822
3374 4822
3375▲4822
3376 4822
3378 4822
3380 4822
3381 4822
3382▲4822
3383▲4822
3387 4822
3400 4822
3402 4822
3403 4822
3404 4822
3405 4822
3406 4822
3407 4822

Spare parts lists / Ersatzteilliste /

Large signal panel [A] [B] [G]

3201▲	4822 053 21475	4M7 5% 0,5W	
3202▲	4822 053 21825	8M2 5% 0,5W	
3203	4822 111 41573	470Ω 10% 0,5W	
3204▲	4822 116 40236	PTC/NTC 32R	
3204▲	4822 116 40215	PTC/NTC 24R	
3209▲	4822 113 80384	1Ω5 10% 7W	
3210	4822 116 52239	120k 5% 0,5W	
3211	4822 116 52239	120k 5% 0,5W	
3212	4822 116 52234	100k 5% 0,5W	
3213	4822 051 10823	82k 2% 0,25W	
3215	4822 051 10272	2k7 2% 0,25W	
3216▲	4822 115 90309	56Ω 10% 5W	
3235▲	4822 052 10108	1Ω 5% 0,33W	
3240	4822 116 52234	100k 5% 0,5W	
3241	4822 113 80583	4Ω7 10% 5W	
3242	4822 051 10122	1k2 2% 0,25W	
3243	4822 116 52228	680Ω 5% 0,5W	
3244	4822 116 52211	150Ω 5% 0,5W	
3245	4822 116 52228	680Ω 5% 0,5W	
3247	4822 051 20222	2k2 5% 0,1W	
3248	4822 051 10202	2k 2% 0,25W	
3249	4822 116 52258	220k 5% 0,5W	
3250	4822 116 52198	62Ω 5% 0,5W	
3251	4822 051 10102	1k 2% 0,25W	
3252	4822 116 52258	220k 5% 0,5W	
3253	4822 116 82738	10k 10% 5W	
3255	4822 116 52243	1k5 5% 0,5W	
3266	4822 051 10151	150Ω 2% 0,25W	
3267	4822 051 10101	100Ω 2% 0,25W	
3268	4822 115 10129	27Ω 10% 5W	
3270	4822 051 10108	1Ω 5% 0,25W	
3271	4822 053 10399	39Ω 5% 1W	
3272	4822 051 51201	120Ω 1% 0,125W	
3273▲	4822 051 10472	4k7 2% 0,25W	
3275	4822 116 52206	120Ω 5% 0,5W	
3300	4822 053 10753	75k 5% 1W	
3304	4822 051 10473	47k 2% 0,25W	
3305	4822 051 10392	3k9 2% 0,25W	
3306	*4822 051 10823*	*82k 2% 0,25W*	
3308	4822 053 12151	150Ω 5% 3W	
3309▲	4822 051 10103	10k 2% 0,25W	
3310	4822 050 11109	11Ω 1% 0,4W	
3311	4822 051 10471	470Ω 2% 0,25W	
3312	4822 051 10101	100Ω 2% 0,25W	
3313	4822 050 11109	11Ω 1% 0,4W	
3314	4822 116 52223	430Ω 5% 0,5W	
3315	4822 116 52223	430Ω 5% 0,5W	
3317	4822 051 10682	6k8 2% 0,25W	
3320	4822 051 10471	470Ω 2% 0,25W	
3321	4822 051 10471	470Ω 2% 0,25W	
3322	4822 051 10471	470Ω 2% 0,25W	
3331	4822 116 52267	30k 5% 0,5W	
3332	4822 116 52233	10k 5% 0,5W	
3351	4822 052 11279	27Ω 5% 0,5W	
3356	4822 051 10102	1k 2% 0,25W	
3357	4822 050 11102	1k1 1% 0,4W	
3358	4822 116 52182	15Ω 5% 0,5W	
3360	4822 051 10122	1k2 2% 0,25W	
3362	4822 051 10151	150Ω 2% 0,25W	
3364	4822 051 10471	470Ω 2% 0,25W	
3365	4822 051 10221	220Ω 2% 0,25W	
3366	4822 051 10221	220Ω 2% 0,25W	
3368	4822 116 52226	560Ω 5% 0,5W	
3369	4822 116 52226	560Ω 5% 0,5W	
3370	4822 051 10332	3k3 2% 0,25W	
3371	4822 100 11348	1k 30% lin	
3372	4822 051 10561	560Ω 2% 0,25W	
3374	4822 116 52301	75k 5% 0,5W	
3375▲	4822 051 10242	2k4 2% 0,25W	
3376	4822 116 52175	100Ω 5% 0,5W	
3378	4822 051 10101	100Ω 2% 0,25W	
3380	4822 051 10152	1k5 2% 0,25W	
3381	4822 051 10152	1k5 2% 0,25W	
3382▲	4822 051 10103	10k 2% 0,25W	
3383▲	4822 051 10103	10k 2% 0,25W	
3387	4822 051 10223	22k 2% 0,25W	
3400	4822 051 10332	3k3 2% 0,25W	
3402	4822 051 10562	5k6 2% 0,25W	
3403	4822 051 10229	22Ω 2% 0,25W	
3404	4822 051 10821	820Ω 2% 0,25W	
3405	4822 051 10303	30k 2% 0,25W	
3406	4822 100 11483	10k 30% lin	
3407	4822 051 10331	330Ω 2% 0,25W	
3408	4822 051 10333	33k 2% 0,25W	
3409	4822 116 52275	360k 5% 0,5W	
3409	4822 116 52268	300k 5% 0,5W	
3409	4822 116 52265	270k 5% 0,5W	
3409	4822 116 52278	390k 5% 0,5W	
3410	4822 101 11003	220k 30% 0,1W	
3411	4822 051 10823	82k 2% 0,25W	
3411	4822 051 56203	62k 1% 0,125W	
3411	4822 051 10683	68k 2% 0,25W	
3413	4822 051 10101	100Ω 2% 0,25W	
3414	4822 051 10154	150k 2% 0,25W	
3415	4822 100 11392	47k 30% lin	
3416	4822 116 52278	390k 5% 0,5W	
3417	4822 116 52256	2k2 5% 0,5W	
3418	4822 051 10221	220Ω 2% 0,25W	
3419▲	4822 116 81193	15Ω 5% 0,3W	
3420	4822 116 83006	2M7 5% 0,5W	
3420	4822 050 23905	3M9 1% 0,6W	
3421	4822 116 52233	10k 5% 0,5W	
3422	4822 116 83029	1M3 5% 0,5W	
3424	4822 051 10221	220Ω 2% 0,25W	
3427	4822 051 10332	3k3 2% 0,25W	
3428	4822 116 52271	33k 5% 0,5W	
3429	4822 116 52276	3k9 5% 0,5W	
3430	4822 051 10471	470Ω 2% 0,25W	
3431	4822 051 10563	56k 2% 0,25W	
3432	4822 051 10122	1k2 2% 0,25W	
3434	4822 100 11642	47k 30% lin	
3435	4822 051 10124	120k 2% 0,25W	
3437	4822 116 52224	470Ω 5% 0,5W	
3438	4822 116 52249	1k8 5% 0,5W	
3440	4822 051 10123	12k 2% 0,25W	
3441	4822 051 10822	8k2 2% 0,25W	
3445	4822 051 10105	1M 5% 0,25W	
3446	4822 116 52251	18k 5% 0,5W	
3447	4822 116 52233	10k 5% 0,5W	
3450	4822 051 10432	4k3 2% 0,25W	
3451	4822 051 10432	4k3 2% 0,25W	
3452	4822 116 52227	620Ω 5% 0,5W	
3454	*4822 116 52227*	*620Ω 5% 0,5W*	
3455	4822 051 10392	3k9 2% 0,25W	
3455▲	4822 051 10472	4k7 2% 0,25W	
3456	4822 051 10104	100k 2% 0,25W	
3456	4822 051 10184	180k 2% 0,25W	
3456	4822 051 10114	110k 2% 0,25W	
3457	4822 051 10822	8k2 2% 0,25W	
3457	4822 051 10153	15k 2% 0,25W	
3458	4822 116 80176	1Ω 5% 0,5W	
3459	4822 116 80176	1Ω 5% 0,5W	
3461	5322 116 82222	1Ω2 5% 0,5W	
3462	5322 116 82222	1Ω2 5% 0,5W	
3463	4822 116 82739	1Ω3 5% 0,5W	
3465	4822 051 10681	680Ω 2% 0,25W	
3466	4822 050 11002	1k 1% 0,4W	
3467	4822 100 20166	10k 30% lin	
3468	4822 053 12331	330Ω 5% 3W	
3468	4822 053 12221	220Ω 5% 3W	
3469	4822 050 11002	1k 1% 0,4W	
3469▲	4822 116 52283	4k7 5% 0,5W	
3469	4822 116 52244	15k 5% 0,5W	
3469	4822 116 52229	750Ω 5% 0,5W	
3473	4822 116 52253	2k 5% 0,5W	
3474	4822 051 10683	68k 2% 0,25W	
3480	4822 116 52234	100k 5% 0,5W	
3481	4822 051 10102	1k 2% 0,25W	
3482	4822 051 10229	22Ω 2% 0,25W	
3485	4822 051 10102	1k 2% 0,25W	
3500	4822 116 80176	1Ω 5% 0,5W	
3502	4822 116 52238	12k 5% 0,5W	
3503	4822 116 52238	12k 5% 0,5W	
3507▲	4822 116 52193	39Ω 5% 0,5W	
3508	4822 116 82379	3k9 10% 5W	
3508▲	4822 116 60523	2k2 10% 5W	
3508	4822 116 53418	2k7 10% 5W	
3509▲	4822 053 21104	100k 5% 0,5W	
3510	4822 053 12221	220Ω 5% 3W	
3510	4822 053 12151	150Ω 5% 3W	
3511	4822 116 52176	10Ω 5% 0,5W	
3512	4822 051 10331	330Ω 2% 0,25W	
3513	4822 100 11319	4k7 30% lin	
3514	4822 116 52206	120Ω 5% 0,5W	
3515▲	4822 052 10278	2Ω7 5% 0,33W	
3516▲	4822 052 10278	2Ω7 5% 0,33W	
3517▲	4822 052 11688	6Ω8 5% 0,5W	
3518	4822 116 52267	30k 5% 0,5W	
3519	4822 116 52267	30k 5% 0,5W	
3520	4822 052 11152	1k5 5% 0,5W	
3521	4822 052 11152	1k5 5% 0,5W	
3523	4822 116 52233	10k 5% 0,5W	
3527	4822 051 10102	1k 2% 0,25W	
3528	4822 116 52303	8k2 5% 0,5W	
3528	4822 116 52224	470Ω 5% 0,5W	
3528	4822 050 11002	1k 1% 0,4W	
3529	4822 051 10204	200k 2% 0,25W	
3530	4822 051 10474	470k 2% 0,25W	
3532▲	4822 050 23301	330Ω 1% 0,6W	
3533▲	4822 050 23301	330Ω 1% 0,6W	
3534▲	4822 052 10278	2Ω7 5% 0,33W	
3535▲	4822 052 10278	2Ω7 5% 0,33W	
3536▲	4822 116 52215	220Ω 5% 0,5W	
3537	4822 116 52206	120Ω 5% 0,5W	
3538	4822 116 52238	12k 5% 0,5W	
3538	4822 116 52241	13k 5% 0,5W	
3540	4822 116 52267	30k 5% 0,5W	
3541	4822 116 52285	470k 5% 0,5W	
3542	4822 051 10913	91k 2% 0,25W	
3542	4822 051 10104	100k 2% 0,25W	
3543	4822 051 10302	3k 2% 0,25W	
3543▲	4822 051 10242	2k4 2% 0,25W	
3544	4822 051 10393	39k 2% 0,25W	
3545	4822 116 52208	130Ω 5% 0,5W	
3546	4822 051 10184	180k 2% 0,25W	
3547	4822 051 10518	5Ω1 5% 0,25W	
3548	4822 051 10392	3k9 2% 0,25W	
3549	4822 051 10124	120k 2% 0,25W	
3550	4822 116 52201	75Ω 5% 0,5W	
3551	4822 116 52201	75Ω 5% 0,5W	
3553	4822 051 10109	10Ω 2% 0,25W	
3561	4822 051 10113	11k 2% 0,25W	
3562▲	4822 051 10103	10k 2% 0,25W	
3569	4822 051 10279	27Ω 2% 0,25W	
3601	4822 051 10104	100k 2% 0,25W	
3602	4822 100 20166	10k 30% lin	
3603	4822 051 10822	8k2 2% 0,25W	
3603▲	4822 051 10472	4k7 2% 0,25W	
3603	4822 051 20183	18k 5% 0,1W	
3603▲	4822 051 10103	10k 2% 0,25W	
3603	4822 051 10153	15k 2% 0,25W	
3604	4822 051 10564	560k 2% 0,25W	
3604	4822 051 10754	750k 2% 0,25W	
3604	4822 051 10105	1M 5% 0,25W	
3605	4822 051 56203	62k 1% 0,125W	
3605	4822 051 10513	51k 2% 0,25W	
3605	4822 051 10203	20k 2% 0,25W	
3606	4822 051 10223	22k 2% 0,25W	
3606	4822 051 10333	33k 2% 0,25W	
3607	4822 100 11213	22k 30% lin	
3608	4822 051 10102	1k 2% 0,25W	
3609	4822 051 10473	47k 2% 0,25W	
3610▲	4822 051 10472	4k7 2% 0,25W	
3611	4822 051 20222	2k2 5% 0,1W	
3612	4822 116 52286	5k1 5% 0,5W	
3614	4822 051 10151	150Ω 2% 0,25W	
3615	4822 116 52224	470Ω 5% 0,5W	
3616	4822 051 10332	3k3 2% 0,25W	
3617	4822 051 20222	2k2 5% 0,1W	
3618	4822 051 10104	100k 2% 0,25W	
3619	4822 051 20222	2k2 5% 0,1W	
3620	4822 051 10622	6k2 2% 0,25W	
3621	4822 051 10114	110k 2% 0,25W	
3621	4822 051 10104	100k 2% 0,25W	
3622	4822 116 80176	1Ω 5% 0,5W	
3624▲	4822 116 52215	220Ω 5% 0,5W	
3625▲	4822 116 52215	220Ω 5% 0,5W	
3626▲	4822 116 52272	330k 5% 0,5W	
3626	4822 116 52297	68k 5% 0,5W	
3626	4822 116 52304	82k 5% 0,5W	
3626	4822 116 52239	120k 5% 0,5W	
3627▲	4822 051 10103	10k 2% 0,25W	
3628	4822 116 52234	100k 5% 0,5W	
3629	4822 051 10823	82k 2% 0,25W	
3629	4822 051 10154	150k 2% 0,25W	
3630	4822 051 10104	100k 2% 0,25W	
3631	4822 051 10182	1k8 2% 0,25W	
3650	4822 051 20183	18k 5% 0,1W	
3651	4822 051 10102	1k 2% 0,25W	
3652	4822 051 10822	8k2 2% 0,25W	
3653	4822 051 10104	100k 2% 0,25W	
3654	4822 051 20222	2k2 5% 0,1W	
3655	4822 051 20222	2k2 5% 0,1W	
3656▲	4822 051 10103	10k 2% 0,25W	

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W
4405	*4822 051 10271*	*270Ω 2% 0,25W*
4508	4822 051 10272	2k7 2% 0,25W

5205▲	4822 158 30224	transf.assy CU20D3
5230▲	4822 146 30957	SOPS transf.
5231	4822 526 10494	ferrite bead
5233	4822 526 10494	ferrite bead
5235	4822 526 10494	ferrite bead
5237	4822 526 10494	ferrite bead
5241	4822 157 63249	33µH 10%
5255▲	4822 148 81225	µSOPS transf.
5260	4822 526 10494	ferrite bead
5262	4822 526 10494	ferrite bead
5308	4822 157 62826	270µH 10%
5310	4822 157 51216	5,6µH 10%
5381▲	4822 157 52265	100µH 10%
5503	4822 142 40328	line driver 50Hz
5510	4822 157 62825	82µH 10%
5511	4822 157 52407	39µH 7,5%
5514	4822 157 53861	coil assy CU15
5520	*4822 156 50109*	*linearity 21"*
5520	4822 156 50108	linearity 25"-28"
5520	4822 156 50111	linearity 33"
5521	4822 157 62938	linearity 21"
5521▲	4822 157 62827	linearity
5526▲	4822 157 62828	east-west
5534	4822 158 10551	27µH 7,5%
5543	4822 157 62412	27µH 10%
5548	4822 526 10494	ferrite bead
5555▲	4822 140 10412	L.O.T. 21"
5555▲	4822 140 10408	L.O.T.

6000	4822 130 80446	LL4148
6001	4822 130 80446	LL4148
6008	4822 209 73095	P4KE30C-7000
6010	4822 130 80446	LL4148
6011	4822 130 80446	LL4148
6012	4822 130 80446	LL4148
6021	4822 130 80446	LL4148
6201	4822 130 80446	LL4148
6210	4822 130 33887	GP15J-16
6211	4822 130 33887	GP15J-16
6212	4822 130 33887	GP15J-16
6213	4822 130 33887	GP15J-16
6216	4822 130 42606	BYD33J
6231	4822 130 80791	BYV28-200/20
6233	4822 130 80791	BYV28-200/20
6235	4822 130 81104	MA689
6237▲	4822 130 41602	BYW95C/20
6238▲	4822 130 41602	BYW95C/20
6246	4822 130 82347	LLZ-F6V8
6251	4822 130 80954	LLZ-C5V6
6260	4822 130 80446	BAS32L
6262	4822 130 82353	BYD34G
6266	4822 130 34278	BZX79-F6V8
6272	4822 130 34173	BZX55-B5V6
6280▲	4822 130 30621	1N4148
6302	4822 130 80446	LL4148
6303	4822 130 80446	LL4148
6304	4822 130 81637	PMLL4148L
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6315	4822 130 80446	LL4148
6318	4822 130 80446	LL4148
6319	4822 130 34173	BZX79-C5V6
6331▲	4822 130 30621	1N4148
6349	4822 130 80446	LL4148
6350	4822 130 80446	LL4148
6351▲	4822 130 30621	1N4148
6352	4822 130 80446	LL4148

Liste des pièces

6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 80886	LLZ-F22
6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 80922	LLZ-C18
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6451	4822 130 34382	BZX79-C8V2
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6466	4822 130 80446	LL4148
6480	4822 130 31554	BZX79-C4V3
6515	4822 130 80877	BAV103
6516	4822 130 80877	BAV103
6517	4822 130 42488	BYD33D
6519▲	4822 130 32896	BYD33M
6520▲	4822 130 32896	BYD33M
6522▲	4822 130 41275	BY228/20
6525	4822 130 80572	RGP30J-L7004
6529	4822 130 34329	BZX79-C43
6534	4822 130 82353	BYD34G
6537	4822 130 80572	RGP30J-L7004
6542	4822 130 30842	BAV21
6546	4822 130 80446	LL4148
6547	4822 130 80446	LL4148
6551	4822 209 32586	TL431A
6601	4822 130 42488	BYD33D
6629	4822 130 80446	LL4148
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148

7000	4822 209 73311	TDA1521Q/N4
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63239	ON4827
7241	4822 130 61003	BD944F
7242	5322 130 41981	BC848A
7243	5322 130 41981	BC848A
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 62742	BD943F
7270	4822 130 41746	BD825
7273	4822 130 42513	BC858C
7274	5322 130 42012	BC858
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	5322 130 44647	BC368
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7320▲	4822 130 83177	CNY17-3
7360	5322 130 42756	BC857C
7369	5322 130 42755	BC847C
7370	5322 130 42755	BC847C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 63423	TDA2579B/N2
7401	4822 209 63299	TDA2595/V9
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7445	5322 130 42136	BC848C
7446	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44104	BC328

7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 42159	BF819
7506▲	4822 130 61265	BU508AF
7512	4822 130 44196	BC548C
7513▲	5322 130 60068	BC558C
7530	4822 130 61233	BC857
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 62742	BD943F
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 60935	BD948F
7616	4822 130 61207	BC848
7618	4822 130 61207	BC848
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C

Small signal panel

Connectors

4822 265 40252	7P
4822 265 40253	8P
4822 265 41086	9P male
4822 255 40901	socket 40P
4822 265 41082	10P flex
4822 290 40295	7P male
4822 267 41095	5P male
4822 265 41326	10P male
4822 265 31009	terminal strip 3P
4822 290 61116	terminal strip 9P
4822 265 31112	5P male
4822 265 31101	3P male

Various

4822 267 20457	socket SCART + 2xcinch
4822 267 51058	socket SCART
4822 267 20409	socket cinch +SVHS
4822 267 20408	socket headph. +cinch
4822 218 21084	keyboard
4822 212 30803	control panel
7002 4822 900 10423	software
1100 4822 212 23281	IR receiver
1160 4822 210 10565	FQ916/BL
1160 4822 210 10548	FQ916ME/BL
1160 4822 210 10558	FQ916MF/LIF
1379 4822 242 70736	7,159 090 MHz
1380 4822 242 70304	8,867 238 MHz
1602 4822 242 80276	10 MHz

2100	4822 124 40684	150µF 20% 6,3V
2111	4822 126 11544	22000pF 63V
2114	4822 124 22606	68µF 20% 16V
2118	4822 122 31797	22nF 10% 63V
2119	4822 122 31797	22nF 10% 63V
2120	4822 126 11544	22000pF 63V
2121	5322 122 31647	1nF 10% 63V
2122▲	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2124	4822 126 11544	22000pF 63V
2130	4822 122 31797	22nF 10% 63V
2131	4822 124 22606	68µF 20% 16V
2132	4822 122 31797	22nF 10% 63V
2137▲	4822 122 32442	10nF 50V
2138	4822 124 40193	68µF 20% 16V
2160	4822 124 40849	330µF 20% 16V
2162	4822 124 41829	1000µF 20% 6,3V
2163	4822 122 33496	100nF 10% 63V
2164	4822 122 33496	100nF 10% 63V
2168	4822 122 32927	220nF 20% 50V
2169▲	4822 122 32442	10nF 50V
2170	4822 124 40195	150µF 20% 16V
2171	4822 122 32862	10nF 80% 50V

2172▲	4822 124 40433	47µF 20% 25V
2173	4822 124 41643	100µF 20% 16V
2180	4822 122 31947	100nF 20% 63V
2181	4822 126 11544	22000pF 63V
2188	4822 126 11544	22000pF 63V
2189	4822 126 11544	22000pF 63V
2190	4822 121 41856	22nF 5% 250V
2191	4822 126 11544	22000pF 63V
2193	4822 122 32153	1,8nF 10% 63V
2194	4822 122 32153	1,8nF 10% 63V
2198	4822 121 41856	22nF 5% 250V
2216	4822 122 32927	220nF 20% 50V
2219	4822 122 32927	220nF 20% 50V
2221	4822 126 12075	680pF 2% 63V
2234	4822 122 32927	220nF 20% 50V
2240	4822 122 32927	220nF 20% 50V
2241	4822 121 42408	220nF 5% 63V
2250	4822 122 31947	100nF 20% 63V
2251	4822 122 31947	100nF 20% 63V
2253	4822 126 11492	220nF 10% 50V
2254	4822 122 32927	220nF 20% 50V
2255	4822 124 41643	100µF 20% 16V
2257	4822 122 31947	100nF 20% 63V
2258	4822 122 31765	100pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2261	4822 122 31947	100nF 20% 63V
2269	4822 122 32482	22pF 2% 63V
2274	4822 122 32862	10nF 80% 50V
2301	5322 122 31647	1nF 10% 63V
2305	4822 126 10324	33pF 2% 63V
2306	4822 122 31772	47pF 2% 63V
2310	4822 122 31774	56pF 2% 63V
2311	4822 122 31765	100pF 2% 63V
2311	4822 122 31767	150pF 2% 63V
2312	4822 126 11544	22000pF 63V
2318	4822 121 42408	220nF 5% 63V
2320	4822 121 51412	560nF 5% 63V
2322	4822 121 51412	560nF 5% 63V
2324	4822 126 11544	22000pF 63V
2326	4822 122 31765	100pF 2% 63V
2327	4822 122 31765	100pF 2% 63V
2328	4822 122 31765	100pF 2% 63V
2330	5322 122 31842	330pF 2% 63V
2331	5322 122 31842	330pF 2% 63V
2338	4822 122 31772	47pF 2% 63V
2342	4822 122 31972	39pF 2% 63V
2343	4822 122 31727	470pF 2% 63V
2344	4822 122 31775	680pF 2% 63V
2345	4822 122 31807	1200pF 2% 63V
2347	5322 122 31647	1nF 10% 63V
2353	4822 122 32862	10nF 80% 50V
2360	4822 124 40272	33µF 20% 16V
2361	4822 124 40849	330µF 20% 16V
2365	4822 122 31352	180pF 2% 100V
2366	4822 126 11544	22000pF 63V
2367	4822 122 32862	10nF 80% 50V
2368	4822 122 32862	10nF 80% 50V
2369	4822 122 31825	27pF 2% 63V
2371	4822 122 31825	27pF 2% 63V
2372	4822 122 31965	220pF 2% 63V
2373	4822 122 31965	220pF 2% 63V
2374	4822 126 11544	22000pF 63V
2375	4822 126 11544	22000pF 63V
2376	4822 126 11544	22000pF 63V
2377	5322 121 42661	330nF 5% 63V
2378	4822 122 31947	100nF 20% 63V
2379	4822 125 50207	33pF trim
2380	4822 125 50207	33pF trim
2381	5322 121 42661	330nF 5% 63V
2382	5322 122 31647	1nF 10% 63V
2383▲	4822 122 32442	10nF 50V
2384	5322 122 31647	1nF 10% 63V
2385▲	4822 122 32442	10nF 50V
2387	4822 124 40435	10µF 20% 50V
2388	5322 122 33446	3,3nF 10% 63V
2390	4822 126 11544	22000pF 63V
2391	4822 126 11544	22000pF 63V
2392	4822 126 11544	22000pF 63V
2433	4822 126 11544	22000pF 63V
2434	4822 126 11544	22000pF 63V
2435	4822 126 11544	22000pF 63V
2436	4822 122 31772	47pF 2% 63V

2438	4822 126 11544	22000pF 63V
2440	4822 126 11544	22000pF 63V
2442	4822 126 11544	22000pF 63V
2445	4822 122 31947	100nF 20% 63V
2446	4822 122 31947	100nF 20% 63V
2447	4822 122 31947	100nF 20% 63V
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 22466	1µF 20% 50V
2453	4822 122 31774	56pF 2% 63V
2454	4822 126 10324	33pF 2% 63V
2455	4822 126 10324	33pF 2% 63V
2456	4822 126 10324	33pF 2% 63V
2476	4822 124 40435	10µF 20% 50V
2479	4822 122 31947	100nF 20% 63V
2480	4822 124 40272	33µF 20% 16V
2600	4822 122 31947	100nF 20% 63V
2602	4822 122 31947	100nF 20% 63V
2604	4822 122 31947	100nF 20% 63V
2606	4822 122 31947	100nF 20% 63V
2608	4822 122 32927	220nF 20% 50V
2620	4822 122 32927	220nF 20% 50V
2622	4822 122 32927	220nF 20% 50V
2624	5322 122 31842	330pF 2% 63V
2626	4822 122 32927	220nF 20% 50V
2627	5322 124 41431	22µF 20% 35V
2628	5322 122 31842	330pF 2% 63V
2630	4822 122 32927	220nF 20% 50V
2632	5322 122 31842	330pF 2% 63V
2634	4822 121 42408	220nF 5% 63V
2636	5322 122 31842	330pF 2% 63V
2638	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2642	4822 122 32927	220nF 20% 50V
2644	5322 122 31842	330pF 2% 63V
2646	4822 122 32927	220nF 20% 50V
2658	4822 122 31961	68pF 2% 63V
2659	4822 122 31961	68pF 2% 63V
2660	5322 122 31647	1nF 10% 63V
2662	5322 122 31647	1nF 10% 63V
2664	4822 122 32153	1,8nF 10% 63V
2666	4822 122 32153	1,8nF 10% 63V
2680	4822 122 31947	100nF 20% 63V
2681	4822 122 32542	47nF 10% 63V
2682	4822 124 40195	150µF 20% 16V
2684	4822 121 51252	470nF 5% 63V
2686	4822 121 51252	470nF 5% 63V
2688	4822 122 31782	15000pF 10% 50V
2690	4822 122 31782	15000pF 10% 50V
2692	4822 122 31981	33nF 5% 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF 5% 50V
2697	4822 122 32765	820pF 2% 63V
2698	4822 122 31916	5,6nF 10% 63V
2699	4822 122 32765	820pF 2% 63V
2700	4822 124 40242	1µF 20% 63V
2702	4822 124 40242	1µF 20% 63V
2704	4822 122 31644	2,2nF 10% 63V
2706	5322 124 41431	22µF 20% 35V
2707	4822 122 31784	4,7nF 10% 50V
2714	4822 126 11544	22000pF 63V
2716	4822 122 32597	6,8nF 10% 63V
2720	5322 124 41431	22µF 20% 35V
2721	4822 122 31784	4,7nF 10% 50V
2726	4822 122 31644	2,2nF 10% 63V
2727	4822 124 42362	33µF 20% 16V
2728	4822 124 42362	33µF 20% 16V
2734	4822 126 11544	22000pF 63V
2736	4822 122 32597	6,8nF 10% 63V

3100	4822 051 10102	1k 2% 0,25W
3101	4822 116 52175	100Ω 5% 0,5W
3104	4822 116 52175	100Ω 5% 0,5W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3117	4822 051 20222	2k2 5% 0,1W
3119	4822 051 20222	2k2 5% 0,1W
3120	4822 051 20222	2k2 5% 0,1W
3121	4822 051 10123	12k 2% 0,25W
3122▲	4822 051 10103	10k 2% 0,25W
3123▲	4822 051 10103	10k 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W

Spare parts lists / Ersatzteilliste / Liste des pièces

Small signal panel [C] [D] [F] [H]

3125	4822 051 10101	100Ω 2% 0,25W	
3126	4822 051 10101	100Ω 2% 0,25W	
3128	4822 051 10471	470Ω 2% 0,25W	
3129	4822 116 52175	100Ω 5% 0,5W	
3131	4822 116 52175	100Ω 5% 0,5W	
3132	4822 116 52175	100Ω 5% 0,5W	
3133	4822 051 10151	150Ω 2% 0,25W	
3134	4822 116 52175	100Ω 5% 0,5W	
3135	4822 051 10101	100Ω 2% 0,25W	
3136	4822 051 10101	100Ω 2% 0,25W	
3137	4822 116 52175	100Ω 5% 0,5W	
3138	4822 116 52175	100Ω 5% 0,5W	
3139	4822 116 52175	100Ω 5% 0,5W	
3140	4822 050 11002	1k 1% 0,4W	
3141	4822 050 11002	1k 1% 0,4W	
3142	4822 050 11002	1k 1% 0,4W	
3143	4822 050 11002	1k 1% 0,4W	
3144	4822 050 11002	1k 1% 0,4W	
3145	4822 050 11002	1k 1% 0,4W	
3146	4822 050 11002	1k 1% 0,4W	
3147▲	4822 116 52283	4k7 5% 0,5W	
3148	4822 051 10473	47k 2% 0,25W	
3149	4822 051 10473	47k 2% 0,25W	
3150	4822 051 10473	47k 2% 0,25W	
3151	4822 051 10562	5k6 2% 0,25W	
3153▲	4822 051 10103	10k 2% 0,25W	
3154	4822 051 10152	1k5 2% 0,25W	
3155	4822 051 10104	100k 2% 0,25W	
3156	4822 051 10562	5k6 2% 0,25W	
3157	4822 050 11002	1k 1% 0,4W	
3158	4822 050 11002	1k 1% 0,4W	
3159▲	4822 051 10103	10k 2% 0,25W	
3160▲	4822 052 10109	10Ω 5% 0,33W	
3161▲	4822 051 10103	10k 2% 0,25W	
3162▲	4822 052 10159	15Ω 5% 0,33W	
3163	4822 051 10223	22k 2% 0,25W	
3164	4822 051 10108	1Ω 5% 0,25W	
3165	4822 051 10108	1Ω 5% 0,25W	
3167	4822 051 10122	1k2 2% 0,25W	
3168▲	4822 051 10242	2k4 2% 0,25W	
3169	4822 050 11002	1k 1% 0,4W	
3170▲	4822 116 82772	3Ω9 5% 0.3W	
3171	4822 052 11511	510Ω 5% 0,5W	
3172▲	4822 052 10159	15Ω 5% 0,33W	
3173	4822 051 20182	1k8 5% 0,1W	
3175	4822 051 10153	15k 2% 0,25W	
3176▲	4822 051 10103	10k 2% 0,25W	
3177▲	4822 051 10103	10k 2% 0,25W	
3178	4822 051 10223	22k 2% 0,25W	
3180	4822 116 52224	470Ω 5% 0,5W	
3181	4822 051 10102	1k 2% 0,25W	
3181	4822 051 10822	8k2 2% 0,25W	
3182	4822 116 52214	200Ω 5% 0,5W	
3183	4822 116 52233	10k 5% 0,5W	
3184	4822 051 51201	120Ω 1% 0,125W	
3185	4822 051 10471	470Ω 2% 0,25W	
3186	4822 116 52256	2k2 5% 0,5W	
3187	4822 051 10759	75Ω 2% 0,25W	
3189	4822 051 10223	22k 2% 0,25W	
3190	4822 051 10823	82k 2% 0,25W	
3191	4822 051 10823	82k 2% 0,25W	
3192	4822 051 10153	15k 2% 0,25W	
3193	4822 051 10331	330Ω 2% 0,25W	
3194	4822 051 10331	330Ω 2% 0,25W	
3200▲	4822 051 10472	4k7 2% 0,25W	
3201▲	4822 051 10472	4k7 2% 0,25W	
3202▲	4822 051 10472	4k7 2% 0,25W	
3205	4822 051 10759	75Ω 2% 0,25W	
3206	4822 051 10759	75Ω 2% 0,25W	
3207	4822 051 10759	75Ω 2% 0,25W	
3208	4822 051 10101	100Ω 2% 0,25W	
3209	4822 051 10101	100Ω 2% 0,25W	
3210	4822 051 10101	100Ω 2% 0,25W	
3211	4822 116 52224	470Ω 5% 0,5W	
3215	4822 051 10689	68Ω 2% 0,25W	
3216▲	4822 052 10828	8Ω2 5% 0,33W	
3217	4822 116 52224	470Ω 5% 0,5W	
3218	4822 051 10471	470Ω 2% 0,25W	
3219	4822 051 10008	0Ω 5% 0,25W	
3220	4822 051 10561	560Ω 2% 0,25W	
3222▲	4822 116 52217	270Ω 5% 0,5W	
3224	4822 051 10759	75Ω 2% 0,25W	
3225	4822 051 10471	470Ω 2% 0,25W	
3232	4822 051 10102	1k 2% 0,25W	
3233	4822 051 10102	1k 2% 0,25W	
3234	4822 051 10759	75Ω 2% 0,25W	
3235	4822 051 10759	75Ω 2% 0,25W	
3237▲	4822 116 52217	270Ω 5% 0,5W	
3238	4822 116 52222	390Ω 5% 0,5W	
3239	4822 051 10271	270Ω 2% 0,25W	
3240	4822 051 10759	75Ω 2% 0,25W	
3241	4822 051 10759	75Ω 2% 0,25W	
3253	4822 051 10331	330Ω 2% 0,25W	
3254▲	4822 052 10828	8Ω2 5% 0,33W	
3255	4822 051 10821	820Ω 2% 0,25W	
3259▲	4822 051 10103	10k 2% 0,25W	
3260▲	4822 052 10828	8Ω2 5% 0,33W	
3261	4822 051 10471	470Ω 2% 0,25W	
3262▲	4822 051 10103	10k 2% 0,25W	
3263	4822 051 10689	68Ω 2% 0,25W	
3264	4822 051 10471	470Ω 2% 0,25W	
3266▲	4822 051 10103	10k 2% 0,25W	
3267▲	4822 051 10103	10k 2% 0,25W	
3269	4822 051 10561	560Ω 2% 0,25W	
3272	4822 116 52228	680Ω 5% 0,5W	
3278	4822 051 10273	27k 2% 0,25W	
3280	4822 051 10273	27k 2% 0,25W	
3281	4822 116 52201	75Ω 5% 0,5W	
3285▲	4822 051 10103	10k 2% 0,25W	
3286▲	4822 051 10103	10k 2% 0,25W	
3287▲	4822 051 10103	10k 2% 0,25W	
3288▲	4822 051 10103	10k 2% 0,25W	
3300▲	4822 051 10103	10k 2% 0,25W	
3301	4822 051 10332	3k3 2% 0,25W	
3303	4822 051 10201	200Ω 2% 0,25W	
3304	4822 051 10241	240Ω 2% 0,25W	
3305	4822 051 10104	100k 2% 0,25W	
3306	4822 051 10241	240Ω 2% 0,25W	
3310▲	4822 116 52283	4k7 5% 0,5W	
3311	4822 051 10182	1k8 2% 0,25W	
3312	4822 051 10511	510Ω 2% 0,25W	
3313	4822 051 10362	3k6 2% 0,25W	
3314	4822 051 10102	1k 2% 0,25W	
3315▲	4822 051 10103	10k 2% 0,25W	
3316	4822 051 10112	1k1 2% 0,25W	
3317	4822 116 52233	10k 5% 0,5W	
3324	4822 051 10223	22k 2% 0,25W	
3325	4822 051 10682	6k8 2% 0,25W	
3326▲	4822 051 10103	10k 2% 0,25W	
3327	4822 051 10122	1k2 2% 0,25W	
3328	4822 051 10271	270Ω 2% 0,25W	
3329	4822 051 10108	1Ω 5% 0,25W	
3329	4822 051 10392	3k9 2% 0,25W	
3330	4822 051 10108	1Ω 5% 0,25W	
3331	4822 051 10108	1Ω 5% 0,25W	
3336▲	4822 051 10472	4k7 2% 0,25W	
3338	4822 051 10391	390Ω 2% 0,25W	
3339	4822 051 10153	15k 2% 0,25W	
3342	4822 051 20222	2k2 5% 0,1W	
3344	4822 051 10273	27k 2% 0,25W	
3345	4822 051 10102	1k 2% 0,25W	
3346	4822 051 10102	1k 2% 0,25W	
3350	4822 051 51201	120Ω 1% 0,125W	
3351▲	4822 051 10472	4k7 2% 0,25W	
3353	4822 051 10332	3k3 2% 0,25W	
3360▲	4822 052 10278	2Ω7 5% 0,33W	
3361	4822 051 10102	1k 2% 0,25W	
3365	4822 051 10331	330Ω 2% 0,25W	
3369	4822 051 10331	330Ω 2% 0,25W	
3370	4822 100 11391	330Ω 30% lin	
3371	4822 051 10431	430Ω 2% 0,25W	
3372	4822 051 10331	330Ω 2% 0,25W	
3375	4822 116 80176	1Ω 5% 0,5W	
3377	4822 051 10682	6k8 2% 0,25W	
3380	4822 050 11002	1k 1% 0,4W	
3383	4822 051 10333	33k 2% 0,25W	
3387	4822 050 11002	1k 1% 0,4W	
3389	4822 051 10182	1k8 2% 0,25W	
3399	4822 116 80176	1Ω 5% 0,5W	
3410	4822 116 52224	470Ω 5% 0,5W	
3414	4822 116 52175	100Ω 5% 0,5W	
3425	4822 116 52224	470Ω 5% 0,5W	
3426	4822 116 52224	470Ω 5% 0,5W	
3439	4822 051 10221	220Ω 2% 0,25W	
3441	4822 051 10221	220Ω 2% 0,25W	
3443	4822 051 10221	220Ω 2% 0,25W	
3450	4822 051 20222	2k2 5% 0,1W	
3451	4822 051 10432	4k3 2% 0,25W	
3451▲	4822 051 10103	10k 2% 0,25W	
3453	4822 051 10511	510Ω 2% 0,25W	
3454	4822 051 10101	100Ω 2% 0,25W	
3455	4822 051 10101	100Ω 2% 0,25W	
3456	4822 051 10101	100Ω 2% 0,25W	
3465▲	4822 051 10472	4k7 2% 0,25W	
3466	4822 051 10479	47Ω 2% 0,25W	
3471	4822 116 52233	10k 5% 0,5W	
3472	4822 051 10682	6k8 2% 0,25W	
3473	4822 051 10362	3k6 2% 0,25W	
3475	4822 051 10124	120k 2% 0,25W	
3476	4822 051 10154	150k 2% 0,25W	
3477	4822 116 52286	5k1 5% 0,5W	
3478	4822 116 52224	470Ω 5% 0,5W	
3479	4822 051 10223	22k 2% 0,25W	
3480▲	4822 052 10278	2Ω7 5% 0,33W	
3481▲	4822 052 10278	2Ω7 5% 0,33W	
3482	4822 052 10431	430Ω 5% 0,33W	
3483	4822 116 52175	100Ω 5% 0,5W	
3484	4822 051 10102	1k 2% 0,25W	
3492	4822 051 10471	470Ω 2% 0,25W	
3600	4822 051 10301	300Ω 2% 0,25W	
3602	4822 100 11212	2k2 30% lin	
3603	4822 051 10108	1Ω 5% 0,25W	
3604	4822 051 10272	2k7 2% 0,25W	
3605▲	4822 051 10472	4k7 2% 0,25W	
3606▲	4822 052 10279	27Ω 5% 0,33W	
3608	4822 051 10101	100Ω 2% 0,25W	
3610	4822 051 10101	100Ω 2% 0,25W	
3612	4822 051 10102	1k 2% 0,25W	
3620	4822 051 10184	180k 2% 0,25W	
3622	4822 051 10184	180k 2% 0,25W	
3624	4822 051 10102	1k 2% 0,25W	
3626	4822 051 10184	180k 2% 0,25W	
3628	4822 051 10102	1k 2% 0,25W	
3630	4822 051 10184	180k 2% 0,25W	
3632	4822 051 10102	1k 2% 0,25W	
3634	4822 051 10184	180k 2% 0,25W	
3636	4822 051 10102	1k 2% 0,25W	
3638	4822 051 10184	180k 2% 0,25W	
3640	4822 051 10102	1k 2% 0,25W	
3642	4822 051 10184	180k 2% 0,25W	
3644	4822 051 10102	1k 2% 0,25W	
3646	4822 051 10184	180k 2% 0,25W	
3650	4822 051 10392	3k9 2% 0,25W	
3651	4822 051 10123	12k 2% 0,25W	
3652	4822 051 10392	3k9 2% 0,25W	
3653	4822 051 10123	12k 2% 0,25W	
3654	4822 116 52244	15k 5% 0,5W	
3660	4822 051 10331	330Ω 2% 0,25W	
3662	4822 051 10151	150Ω 2% 0,25W	
3664	4822 051 10331	330Ω 2% 0,25W	
3665▲	4822 116 81193	15Ω 5% 0,3W	
3666	4822 051 10151	150Ω 2% 0,25W	
3668	4822 051 10331	330Ω 2% 0,25W	
3672	4822 051 10331	330Ω 2% 0,25W	
3680▲	4822 052 10279	27Ω 5% 0,33W	
3682	4822 051 10568	5Ω6 5% 0,25W	
3684	4822 116 52175	100Ω 5% 0,5W	
3686	4822 116 52175	100Ω 5% 0,5W	
3700	4822 116 52263	2k7 5% 0,5W	
3702	4822 051 10223	22k 2% 0,25W	
3704	4822 051 10102	1k 2% 0,25W	
3706▲	4822 116 81203	10Ω 5% 0,3W	
3708	4822 051 10101	100Ω 2% 0,25W	
3710	4822 051 20183	18k 5% 0,1W	
3712	4822 116 52203	91Ω 5% 0,5W	
3713	4822 116 52203	91Ω 5% 0,5W	
3714	4822 051 10828	8Ω2 5% 0,25W	
3720▲	4822 116 81203	10Ω 5% 0,3W	
3722	4822 116 52263	2k7 5% 0,5W	
3724	4822 051 10223	22k 2% 0,25W	
3726	4822 051 10102	1k 2% 0,25W	
3728	4822 051 10101	100Ω 2% 0,25W	
3730	4822 051 20183	18k 5% 0,1W	
3732	4822 116 52203	91Ω 5% 0,5W	
3733	4822 116 52203	91Ω 5% 0,5W	
3734	4822 051 10828	8Ω2 5% 0,25W	
3750	4822 051 10272	2k7 2% 0,25W	
3751▲	4822 051 10472	4k7 2% 0,25W	

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W

5100	4822 157 53906	47µH 10%	
5115	4822 152 20677	10µH 10%	
5270	4822 157 52983	22µH 10%	
5280	4822 157 63065	0,68µH 20%	
5305	4822 157 62823	coil trim. 2,52MHz	
5310	4822 157 63245	82µH 10%	
5345	4822 157 62822	coil trim. 7,96MHz	
5346	4822 157 62823	coil trim. 2,52MHz	
5370	4822 157 62824	coil trim. 7,96MHz	
5454	4822 157 63065	0,68µH 20%	
5455	4822 157 63065	0,68µH 20%	
5456	4822 157 63065	0,68µH 20%	
5460	4822 157 63065	0,68µH 20%	

6001▲	4822 130 30621	1N4148	
6117	4822 130 80906	LLZ-F7V5	
6120	4822 130 80446	LL4148	
6121	4822 130 80446	LL4148	
6130	4822 130 80446	LL4148	
6135	4822 130 80905	LLZ-F5V1	
6136	4822 130 83086	LL4150	
6163	4822 130 81226	LLZ-F33	
6165	4822 130 80446	LL4148	
6166	4822 130 80446	LL4148	
6168	4822 130 80446	LL4148	
6172	4822 130 80906	LLZ-C7V5	
6173	4822 130 80446	LL4148	
6178	4822 130 81222	LLZ-C15	
6205	4822 130 80446	LL4148	
6206	4822 130 80446	LL4148	
6207	4822 130 80446	LL4148	
6256	4822 130 80446	LL4148	
6257	4822 130 80446	LL4148	
6280	4822 130 80446	LL4148	
6281	4822 130 80446	LL4148	
6342	4822 130 80888	BA682	
6343	4822 130 80888	BA682	
6345	4822 130 30841	1N4150	
6370	4822 130 83406	LLZ-F3V6	
6386	4822 130 80446	LL4148	
6387	4822 130 80954	LLZ-C5V6	
6450	4822 130 81512	LLZ-C6V2	
6465	4822 130 80446	LL4148	
6478	4822 130 82345	LLZ-C22	
6479	4822 130 80877	BAV103	
6480	4822 130 82882	LLZ-F8V2	
6660	4822 130 80446	LL4148	
6661	4822 130 81223	LLZ-C2V4	
6662	4822 130 80446	LL4148	
6663	4822 130 81223	LLZ-C2V4	
6664	4822 130 80446	LL4148	
6665	4822 130 80446	LL4148	

7119▲	5322 130 41982	BC848B	
7120▲	5322 130 41982	BC848B	
7121	4822 130 42513	BC858C	
7130	5322 130 42136	BC848C	
7137	4822 209 52316	ST24C04B	
7150	5322 130 42136	BC848C	
7172▲	5322 130 41982	BC848B	
7175	5322 209 10883	PCF8574P	
7176	4822 130 42513	BC858C	
7177	4822 130 42513	BC858C	
7178▲	5322 130 41982	BC848B	
7182	5322 130 44743	BSR12	
7183▲	5322 130 41982	BC848B	
7186	4822 209 73852	PMBT2369	
7188	4822 130 60511	BC847B	
7193	4822 209 61115	LF353N	
7216	4822 130 42615	BC817-40	
7219	4822 209 63292	TEA6414	
7258	5322 209 10421	HEF4094BP	
7260	4822 130 42615	BC817-40	
7261	5322 130 42136	BC848C	
7265▲	5322 130 41982	BC848B	
7305	5322 130 41983	BC858B	
7311▲	5322 130 41982	BC848B	
7312	5322 130 42136	BC848C	
7313	4822 1		
7314	5322 1		
7315	5322 1		
7324	4822 2		
7326	5322 1		
7338▲	5322 1		
7340	4822 1		
7350▲	5322 1		
7360	4822 1		
7365	4822 2		
7366	4822 2		
7410	4822 2		
7430	4822 2		
7450	5322 1		
7451	5322 1		
7471	5322 1		
7480	5322 1		
7492	5322 1		
7600	4822 2		
7620	4822 2		
7622	4822 2		
7630	4822 2		
7635	4822 2		
7660▲	5322 1		
7661▲	5322 1		
7662▲	5322 1		
7680	4822 2		
7704▲	4822 2		
7706▲	5322 1		
7708	5322 1		
7730▲	5322 1		
7732	5322 1		

PIP pane

Connectors

	4822 2	
	4822 2	
	4822 2	

Various

1023	4822 2	
1023	4822 2	
1155	4822 3	
1201	4822 2	
1212	4822 2	
2103	4822 1	
2105	4822 1	
2118	4822 1	
2119	4822 1	
2120	4822 1	
2125	4822 1	
2155	4822 1	
2158	4822 1	
2160	4822 1	
2161	4822 1	
2162	4822 1	
2171	4822 1	
2172	4822 1	
2176	4822 1	
2177	4822 1	
2180	4822 1	
2181	4822 1	
2185	4822 1	
2187	4822 1	
2189	4822 1	
2196	4822 1	
2197	4822 1	
2201	4822 1	
2202	4822 1	
2211	4822 1	
2212	4822 1	
2220	5322 1	
2222	4822 1	
2227	5322 1	
2230	4822 1	

5% 0,25W

H 10%
H 10%
H 10%
3µH 20%
trim. 2,52MHz

H 10%
trim. 7,96MHz
trim. 2,52MHz
trim. 7,96MHz
3µH 20%

3µH 20%
3µH 20%
9µH 20%

4148
-F7V5
148
148
148

-F5V1
150
-F33
148
148

148
-C7V5
148
-C15
148

148
148
148
148
148

148
382
382
4150
-F3V6

148
-C5V6
-C6V2
148
-C22

V103
-F8V2
148
-C2V4
148

-C2V4
148
148

348B
348B
358C
348C
24C04B

348C
348B
TB574P
358C
358C

348B
312
348B
BT2369
347B

53N
317-40
\6414
T4094BP
317-40

348C
348B
358B
348B
348C

7313	4822 130 42513	BC858C
7314	5322 130 42136	BC848C
7315	5322 130 42136	BC848C
7324	4822 209 71512	TDA4565/V6
7326	5322 130 42136	BC848C
7338▲	5322 130 41982	BC848B
7340	4822 130 60887	BF840
7350▲	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 31714	TDA4661/V2
7410	4822 209 73852	PMBT2369
7430	4822 209 31592	TDA4680/V6
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C
7480	5322 130 44921	BD943
7492	5322 130 42136	BC848C
7600	4822 209 63967	TDA8417/V3
7620	4822 209 10263	4052B
7622	4822 209 10263	4052B
7630	4822 209 61115	LF353N
7635	4822 209 61115	LF353N
7660▲	5322 130 41982	BC848B
7661▲	5322 130 41982	BC848B
7662▲	5322 130 41982	BC848B
7680	4822 209 63734	TDA8425/V7
7704▲	4822 209 83163	LM833N
7706▲	5322 130 41982	BC848B
7708	5322 130 41983	BC858B
7730▲	5322 130 41982	BC848B
7732	5322 130 41983	BC858B

PIP panel [J]

Connectors

	4822 265 31085	5P female
	4822 265 41328	10P female
	4822 265 31112	5P male

Various

1023	4822 212 30921	PIP multi
1023	4822 212 30922	PIP PAL
1155	4822 320 40284	delay line DL711G
1201	4822 242 70304	crystal 8,867 238 MHz
1212	4822 242 70736	crystal 7,159 090 MHz

2103	4822 126 10324	33pF 2% 63V
2105	4822 122 31766	120pF 2% 63V
2118	4822 122 31775	680pF 2% 63V
2119	4822 122 31767	150pF 2% 63V
2120	4822 122 31807	1200pF 2% 63V
2125	4822 126 11544	22000pF 63V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V
2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 2% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 2% 63V
2180	4822 122 31768	180pF 2% 63V
2181	4822 122 31768	180pF 2% 63V
2185	4822 126 11544	22000pF 63V
2187	4822 126 11544	22000pF 63V
2189	4822 122 31746	1000pF 2% 63V
2196	4822 122 32183	56nF 10% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1000pF 2% 63V
2202	4822 125 50045	20pF trim
2211	4822 122 31746	1000pF 2% 63V
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 2% 63V
2230	4822 124 41578	6,8µF 20% 50V
2232	5322 124 41431	22µF 20% 35V
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 31947	100nF 20% 63V
2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 2% 63V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V
2340	4822 124 40433	47µF 20% 25V
2345	4822 124 40433	47µF 20% 25V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF 20% 50V
2381	4822 122 32927	220nF 20% 50V
2382	4822 122 32927	220nF 20% 50V
2383	4822 122 32927	220nF 20% 50V
2384	4822 122 32927	220nF 20% 50V
2385	4822 122 32927	220nF 20% 50V
2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1000pF 2% 63V
2404	4822 122 31965	220pF 2% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 2% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31839	82pF 2% 63V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2447	5322 121 42386	100nF 5% 63V
2448	4822 122 31947	100nF 20% 63V
2449	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V
2452	4822 122 31765	100pF 2% 63V
2453	4822 122 31765	100pF 2% 63V
2455	4822 122 31972	39pF 2% 63V
2456	4822 122 31765	100pF 2% 63V
2459	4822 124 41997	470µF 10V
2466	4822 122 31947	100nF 20% 63V
2470	4822 124 40435	10µF 20% 50V
2627	4822 122 32927	220nF 20% 50V

3100	4822 051 10008	0Ω 5% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% lin
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10821	820Ω 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% lin
3241	4822 051 10302	3k 2% 0,25W
3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341▲	4822 111 41424	22Ω 5% 0,3W
3345▲	4822 111 41424	22Ω 5% 0,3W
3353▲	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 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 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10361	360Ω 2% 0,25W
3414	4822 051 51201	120Ω 1% 0,125W
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 10621	620Ω 2% 0,25W
3452	4822 051 10621	620Ω 2% 0,25W
3454	4822 051 10621	620Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3467	4822 116 52256	2k2 5% 0,5W
3471	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3621	4822 051 10105	1M 5% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W

5118	4822 157 60435	10,3µH 4,86MHz trim
5155	4822 157 60433	7,2µH 4,4MHz trim
5157	4822 157 60434	9,4µH 4,4MHz trim
5170	4822 157 60432	10,3µH 4,4MHz trim
5175	4822 157 60432	10,3µH 4,4MHz trim
5190	4822 157 60432	10,3µH 4,4MHz trim
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5403	4822 157 52333	100µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148
7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7126	4822 209 30389	TDA4510/V8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41982	BC848B
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 62474	SDA9088-2WS
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7755	4822 209 63423	TDA2579B/N2

Picture tube panel [E]

Connectors

	4822 265 20509	2P grey
▲	4822 265 40596	2P male
	4822 255 70262	picture tube socket 21"
	4822 267 51225	picture tube socket
	4822 267 40985	6P male
	4822 290 40295	7P male

Various

1030	4822 212 23716	PTP 25"-28"
1030	4822 212 23762	PTP 21"
1030	4822 212 23888	PTP 33"

2700	4822 122 33496	100nF 10% 63V
2701	4822 122 32506	5,6pF 5% 50V
2703	4822 122 31768	180pF 2% 63V
2704	4822 124 42182	3,3µF 20% 250V
2705	4822 124 40272	33µF 20% 16V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2708	4822 122 31773	560pF 2% 63V
2709	4822 122 31825	27pF 2% 63V
2710	4822 122 31774	56pF 2% 63V
2711	4822 122 32506	5,6pF 5% 50V
2712	4822 126 11175	22pF 5% 50V
2713	4822 121 42066	27nF 10% 400V
2715	4822 121 42066	27nF 10% 400V
2716	4822 122 31797	22nF 10% 63V
2717	4822 121 42066	27nF 10% 400V
2720	4822 122 31774	56pF 2% 63V
2721	4822 122 32506	5,6pF 5% 50V
2726	4822 122 31797	22nF 10% 63V
2730	4822 122 31774	56pF 2% 63V
2731	5322 122 31647	1nF 10% 63V
2741	5322 122 31647	1nF 10% 63V
2751	5322 122 31647	1nF 10% 63V

3537	4822 053 11128	1Ω2 5% 2W
3700	4822 051 10182	1k8 2% 0,25W
3701	4822 051 10101	100Ω 2% 0,25W
3702	4822 051 10102	1k 2% 0,25W
3704	4822 051 10302	3k 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W
3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21204	120k 1% 0,6W
3706	4822 050 21504	150k 1% 0,6W
3708	4822 111 50518	1k5 5% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3710	4822 051 10008	0Ω 5% 0,25W
3710	4822 051 10333	33k 2% 0,25W

3711	4822 051 10101	100Ω 2% 0,25W
3712	4822 051 10272	2k7 2% 0,25W
3714	4822 051 10302	3k 2% 0,25W
3714	4822 051 10272	2k7 2% 0,25W
3715	4822 051 10332	3k3 2% 0,25W
3716	4822 050 21204	120k 1% 0,6W
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50518	1k5 5% 0,5W
3718	4822 111 50579	680Ω 10% 0,5W
3719	*4822 051 10008*	*0Ω 5% 0,25W*
3719	4822 051 10333	33k 2% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3721	4822 051 10101	100Ω 2% 0,25W
3724	4822 051 10302	3k 2% 0,25W
3724	4822 051 10272	2k7 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W
3726	4822 050 21204	120k 1% 0,6W
3726	4822 050 21504	150k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 50518	1k5 5% 0,5W
3728	4822 111 50579	680Ω 10% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731▲	4822 052 10279	27Ω 5% 0,33W
3733	4822 052 11101	100Ω 5% 0,5W
3734	4822 051 10114	110k 2% 0,25W
3735▲	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 116 52304	82k 5% 0,5W
3739	4822 116 52186	22Ω 5% 0,5W
3739	4822 116 52195	47Ω 5% 0,5W
3739	4822 116 52191	33Ω 5% 0,5W
3740	4822 051 10114	110k 2% 0,25W
3741	4822 051 10124	120k 2% 0,25W
3742	4822 051 10333	33k 2% 0,25W
3743	4822 051 10333	33k 2% 0,25W
3748	4822 111 50579	680Ω 10% 0,5W
3761	4822 051 10102	1k 2% 0,25W
3761▲	*4822 051 10472*	*4k7 2% 0,25W*
3761	4822 051 20222	2k2 5% 0,1W

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W

5700	4822 157 52506	12µH 7,5%
5700	4822 158 10551	27µH 7,5%
5700	4822 157 63509	15µH 7,5%
5701	4822 157 52407	39µH 7,5%

6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6707	4822 130 81143	BZV55-C20
6712	4822 130 80877	BAV103
6713	4822 130 80877	BAV103
6714▲	4822 130 32896	BYD33M
6715	4822 130 82969	BZD23-C24

7704	4822 130 60373	BC856B
7705	4822 209 30007	TDA6101Q/N1
7706	4822 209 30007	TDA6101Q/N1
7707	4822 209 30007	TDA6101Q/N1

NICAM sound module [K]

Connectors

	4822 265 41087	terminal strip 9P

Various

1600	4822 212 23907	ECO-NICAM PAL BG
1600	4822 212 23908	ECO-NICAM PAL I
1001	4822 242 81527	crystal 17,472MHz
1002	4822 242 72301	filter TH316BOM-20800DAF
1002	4822 242 72303	filter TH316BQM

Various

1003	4822 242 81187	crystal 11,700MHz
1003	4822 242 81188	crystal 13,104MHz
1106	4822 242 72303	filter TH316BQM

2000	4822 122 31947	100nF 20% 63V
2001▲	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31768	180pF 2% 63V
2006	5322 122 31842	330pF 2% 63V
2007	4822 122 32597	6,8nF 10% 63V
2008	4822 122 31767	150pF 2% 63V
2009▲	4822 122 32442	10nF 50V
2010	4822 122 31767	150pF 2% 63V
2011	4822 122 31766	120pF 2% 63V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1000pF 2% 63V
2014▲	4822 122 32442	10nF 50V
2015	4822 125 50045	20pF trim.
2016	4822 122 31961	68pF 2% 63V
2017	4822 121 42408	220nF 5% 63V
2018▲	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V
2020▲	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15000pF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF 5% 50V
2022	4822 122 31759	18nF
2023	4822 122 31981	33nF 5% 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15000pF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V
2026▲	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 2% 63V
2028	4822 126 10171	2700pF 2% 63V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V
2031	4822 126 10171	2700pF 2% 63V
2032	4822 122 31773	560pF 2% 63V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1000pF 2% 63V
2036▲	4822 122 32442	10nF 50V
2037▲	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V
2039	4822 126 11691	150nF 10% 63V
2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pF 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050▲	4822 124 40433	47µF 20% 25V
2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V

3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W
3007	4822 051 10223	22k 2% 0,25W
3008	4822 051 10223	22k 2% 0,25W
3009	4822 051 10392	3k9 2% 0,25W
3010	4822 051 10104	100k 2% 0,25W
3011	4822 051 10104	100k 2% 0,25W
3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014▲	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W
3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W
3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020▲	4822 051 10472	4k7 2% 0,25W
3021▲	4822 051 10472	4k7 2% 0,25W
3022▲	4822 051 10472	4k7 2% 0,25W
3023▲	4822 051 10472	4k7 2% 0,25W
3024	4822 051 10184	180k 2% 0,25W
3025	4822 051 10184	180k 2% 0,25W
3026	4822 051 10101	100Ω 2% 0,25W
3027	4822 051 10101	100Ω 2% 0,25W
3028▲	4822 051 10103	10k 2% 0,25W
3029▲	4822 052 10109	10Ω 5% 0,33W
3030	4822 051 10102	1k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10569	56Ω 2% 0,25W
3033	4822 051 20222	2k2 5% 0,1W
3034	4822 051 10431	430Ω 2% 0,25W
3035	4822 051 10241	240Ω 2% 0,25W
3036	4822 051 10102	1k 2% 0,25W
3037	4822 051 10159	15Ω 2% 0,25W
3049	4822 051 10223	22k 2% 0,25W
3050	4822 051 10123	12k 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 051 51201	120Ω 1% 0,125W

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W

5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 70458	4,7µH 10%
5003	4822 157 70458	4,7µH 10%

6000▲	4822 130 30621	1N4148
6005	4822 209 30911	OF4076
6006	5322 130 31684	BB809
6050	4822 130 80446	LL4148

7000	4822 209 30909	TDA8732/C1
7001▲	4822 209 30914	SAA7280/M3
7002▲	4822 209 83163	LM833N
7003▲	4822 209 83163	LM833N
7004	5322 209 10576	4053B
7007	4822 209 73236	TDA1543/N2
7008	5322 130 42755	BC847C
7009	*4822 130 60887*	*BF840*
7050	5322 130 42136	BC848C

Comb filter [N]

Connectors

	4822 265 41337	terminal strip 11P

Various

1300	4822 212 30906	COMBFILTER

2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 124 40435	10µF 20% 50V
2003	4822 122 33496	100nF 10% 63V
2004	4822 124 40435	10µF 20% 50V
2005	4822 124 40242	1µF 20% 63V
2006	4822 122 33496	100nF 10% 63V
2010▲	4822 122 32442	10nF 50V
2021▲	4822 122 32442	10nF 50V
2022▲	4822 122 32442	10nF 50V
2023	4822 122 31766	120pF 2% 63V
2024▲	4822 122 32442	10nF 50V
2025	4822 124 41577	4,7µF 20% 50V
2026	4822 122 33496	100nF 10% 63V
2030	4822 124 40177	47µF 20% 10V
2031	4822 122 33496	100nF 10% 63V
2032	4822 124 40177	47µF 20% 10V
2033	4822 122 33496	100nF 10% 63V
2034	4822 124 40177	47µF 20% 10V
2035	4822 122 33496	100nF 10% 63V
2036▲	4822 124 40433	47µF 20% 25V
2037	4822 122 33496	100nF 10% 63V
2038	5322 122 31647	1nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2044	4822 122 33496	100nF 10% 63V
2045	4822 122 33496	100nF 10% 63V
2050	4822 124 80283	100µF 20% 6,3V
2051	4822 126 11725	1µF 20% 5V
2060	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2080	4822 122 31797	22nF 10% 63V
2081	4822 124 80283	100µF 20% 6,3V
2082	4822 122 33496	100nF 10% 63V
2083	4822 122 33496	100nF 10% 63V

3000▲	4822 051 10103	10k 2% 0,25W
3001	4822 051 10124	120k 2% 0,25W
3011	4822 051 10471	470Ω 2% 0,25W
3012	4822 051 10102	1k 2% 0,25W
3013	4822 051 10182	1k8 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3021	4822 051 10122	1k2 2% 0,25W
3022	4822 051 10331	330Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3024	4822 051 10331	330Ω 2% 0,25W
3025	4822 051 10473	47k 2% 0,25W
3026	4822 051 10479	47Ω 2% 0,25W
3027	4822 051 10471	470Ω 2% 0,25W
3028	4822 051 10479	47Ω 2% 0,25W
3029	4822 051 10102	1k 2% 0,25W
3030	4822 051 10473	47k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10181	180Ω 2% 0,25W
3035▲	4822 052 10108	1Ω 5% 0,33W
3036▲	4822 052 10108	1Ω 5% 0,33W
3037▲	4822 052 10108	1Ω 5% 0,33W
3038▲	4822 052 10108	1Ω 5% 0,33W
3040	4822 051 10333	33k 2% 0,25W
3041	4822 051 10822	8k2 2% 0,25W
3042	4822 051 10331	330Ω 2% 0,25W
3043	4822 051 10332	3k3 2% 0,25W
3044	4822 051 10471	470Ω 2% 0,25W
3045	4822 051 10821	820Ω 2% 0,25W
3046	4822 051 10122	1k2 2% 0,25W
3047	4822 051 10102	1k 2% 0,25W
3048	4822 051 10101	100Ω 2% 0,25W
3050	4822 051 10333	33k 2% 0,25W
3051	4822 051 10822	8k2 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10202	2k 2% 0,25W
3054	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10821	820Ω 2% 0,25W
3056	4822 051 10122	1k2 2% 0,25W
3057	4822 051 10102	1k 2% 0,25W
3058	4822 051 10101	100Ω 2% 0,25W
3060	4822 051 10682	6k8 2% 0,25W
3061	4822 051 10331	330Ω 2% 0,25W
3062	4822 051 10821	820Ω 2% 0,25W
3078	4822 051 10151	150Ω 2% 0,25W
3079	4822 051 10821	820Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 10102	1k 2% 0,25W
3083	4822 051 10473	47k 2% 0,25W
3084	4822 051 10393	39k 2% 0,25W
3085	4822 051 10471	470Ω 2% 0,25W
3086	4822 051 10152	1k5 2% 0,25W
3087	4822 051 10182	1k8 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3089	4822 051 10151	150Ω 2% 0,25W
3090	4822 051 10471	470Ω 2% 0,25W
3091	4822 051 10102	1k 2% 0,25W
3092	4822 051 10223	22k 2% 0,25W
3093	4822 051 20222	2k2 5% 0,1W
3094	4822 051 10333	33k 2% 0,25W

5021▲	4822 157 51462	10µH 10%
5022	4822 157 63065	0,68µH 20%
5030	4822 157 51312	68µH 10%
5031	4822 157 51312	68µH 10%
5032	4822 157 51312	68µH 10%
5033	4822 157 51312	68µH 10%
5040	4822 154 10056	4,43MHz BAND-PASS

Spare parts lists / Ersatzteilliste / Liste des pièces

Comb filter [N]

5050	4822 154 10057	7,2MHz LOW-PASS
5080	4822 154 10057	7,2MHz LOW-PASS

6050▲	4822 130 30621	1N4148
6051	4822 130 31253	BZX79-C2V4

7000	4822 209 32587	MC141625A
7005	5322 209 10576	4053B
7010	5322 130 42136	BC848C
7021▲	5322 130 41982	BC848B
7022▲	5322 130 41982	BC848B
7023	5322 130 41983	BC858B
7024	5322 130 41983	BC858B
7040	5322 130 42136	BC848C
7041	4822 130 42513	BC858C
7042	5322 130 42136	BC848C
7050	5322 130 42136	BC848C
7051	4822 130 42513	BC858C
7052	5322 130 42136	BC848C
7062	5322 130 42136	BC848C
7080	5322 130 42136	BC848C
7081▲	5322 130 41982	BC848B
7082	5322 130 41983	BC858B
7083	4822 130 42513	BC858C
7090	5322 130 41983	BC858B
7091▲	5322 130 41982	BC848B
7092▲	5322 130 41982	BC848B

TXT panel [L]

Connectors

	4822 265 41083	terminal strip 10P

Various

1400	4822 212 30904	TXT-DVTB-EUR
1400	4822 212 30905	TXT-DVTB-SCAN
1100	4822 242 71417	crystal 13,875 000 Hz

2101	4822 124 40435	10µF 20% 50V
2102	5322 122 31641	47nF 50V
2103	4822 122 31782	15000pF 10% 50V
2104	4822 122 31965	220pF 2% 63V
2105	4822 122 32891	68nF 10% 63V
2106	4822 122 32504	15pF 2% 63V
2107	5322 122 31647	1nF 10% 63V
2108	4822 122 31727	470pF 2% 63V
2109	4822 126 11544	22000pF 63V
2110	4822 122 32142	270pF 2% 63V
2111	4822 122 31765	100pF 2% 63V
2112	4822 126 11544	22000pF 63V
2113▲	4822 124 41525	100µF 20% 25V
2114	4822 122 32083	8,2pF 5% 50V
2115	5322 122 31647	1nF 10% 63V
2116	4822 124 40435	10µF 20% 50V
2117	4822 122 31765	100pF 2% 63V
2118	4822 122 31765	100pF 2% 63V
2119	4822 126 11544	22000pF 63V
2120	4822 122 32862	10nF 80% 50V
2122	4822 122 33496	100nF 10% 63V
2123	4822 122 31825	27pF 2% 63V
2124▲	4822 124 41525	100µF 20% 25V
2125	5322 124 41431	22µF 20% 35V
2126	4822 122 31981	33nF 5% 50V
2127	4822 122 33496	100nF 10% 63V
2128	5322 124 41431	22µF 20% 35V
2129	4822 122 31767	150pF 2% 63V
2130	4822 124 41576	2,2µF 20% 50V
2131	4822 124 41576	2,2µF 20% 50V
2132	4822 122 32504	15pF 2% 63V
2134	4822 122 33496	100nF 10% 63V
2137	4822 126 11544	22000pF 63V

3101	4822 051 10473	47k 2% 0,25W
3102	4822 051 10102	1k 2% 0,25W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 20222	2k2 5% 0,1W
3105	4822 051 10683	68k 2% 0,25W
3106	4822 051 10221	220Ω 2% 0,25W
3107	4822 051 10681	680Ω 2% 0,25W
3108	4822 051 10221	220Ω 2% 0,25W
3109	4822 051 10683	68k 2% 0,25W
3110	4822 051 10122	1k2 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 10272	2k7 2% 0,25W
3113	4822 051 10681	680Ω 2% 0,25W
3114	4822 051 10271	270Ω 2% 0,25W
3115	4822 051 20222	2k2 5% 0,1W
3116	4822 051 10511	510Ω 2% 0,25W
3117	4822 051 10182	1k8 2% 0,25W
3118	4822 051 10008	0Ω 5% 0,25W
3121	4822 051 10471	470Ω 2% 0,25W
3122	4822 051 10223	22k 2% 0,25W
3123	4822 051 10102	1k 2% 0,25W
3124	4822 051 20222	2k2 5% 0,1W
3125	4822 051 10271	270Ω 2% 0,25W
3126	4822 051 10512	5k1 2% 0,25W
3127	4822 051 10511	510Ω 2% 0,25W
3128	4822 051 10202	2k 2% 0,25W
3129	4822 051 10102	1k 2% 0,25W
3130	4822 051 10162	1k6 2% 0,25W
3131	4822 051 10101	100Ω 2% 0,25W
3132	4822 051 10101	100Ω 2% 0,25W
3133	4822 051 10223	22k 2% 0,25W
3134	4822 116 52201	75Ω 5% 0,5W
3135	4822 116 52226	560Ω 5% 0,5W
3136	4822 116 52226	560Ω 5% 0,5W
3137	4822 116 52226	560Ω 5% 0,5W
3138	4822 051 10202	2k 2% 0,25W
3139▲	4822 051 10103	10k 2% 0,25W
3140	4822 051 10104	100k 2% 0,25W
3141	4822 051 10008	0Ω 5% 0,25W
3142▲	4822 052 10108	1Ω 5% 0,33W
3143▲	4822 052 10109	10Ω 5% 0,33W
3144	4822 051 10102	1k 2% 0,25W
3145	4822 051 10362	3k6 2% 0,25W
3146	4822 051 10471	470Ω 2% 0,25W
3147	4822 051 10152	1k5 2% 0,25W
3148	4822 051 10399	39Ω 2% 0,25W
3148	4822 051 10279	27Ω 2% 0,25W
3150	4822 051 10151	150Ω 2% 0,25W
3151	4822 051 10101	100Ω 2% 0,25W

Jumper

4xxx	4822 051 10008	0Ω 5% 0,25W

5100	4822 157 52392	27µH 10%
5101	4822 157 50965	15µH 10%
5102	4822 156 11169	coil trim. 601,54kHz

6100	4822 130 83406	LLZ-F3V6
6101	4822 130 80446	LL4148
6102	4822 130 80883	LLZ-C4V7

7100	5322 130 42136	BC848C
7101	4822 130 42513	BC858C
7102▲	5322 130 41982	BC848B
7103▲	5322 130 41982	BC848B
7104▲	5322 130 41982	BC848B
7105▲	5322 130 41982	BC848B
7106	5322 130 42136	BC848C
7107	5322 130 42136	BC848C
7108	4822 130 42513	BC858C
7109	5322 130 42136	BC848C
7110	4822 209 32629	SAA5191/V3
7111	4822 209 31851	SAA9042P/A/MOB
7113	4822 209 52359	HYB514256B-70
7114▲	5322 130 41982	BC848B
7115▲	5322 130 41982	BC848BConnectors
	4822 265 40503	5P
	4822 265 30431	3P

Y/C detector [I]

Various

1021	4822 212 23929	Y/C detector PIP
1021	4822 212 30007	Y/C detector NPIP
1231	4822 242 80364	filter 4,43MHz

2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF 20% 50V
2228	4822 122 32927	220nF 20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2238	4822 122 31768	180pF 2% 63V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 2% 63V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 2% 63V
2269	4822 124 20726	4,7µF 10% 63V

3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204▲	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221▲	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225▲	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W
3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W
3278▲	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282▲	4822 051 10103	10k 2% 0,25W
3283▲	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309	4822 051 10008	0Ω 5% 0,25W
3319	4822 051 10102	1k 2% 0,25W

5200	4822 157 62824	coil trim. 7,96MHz
5201	4822 157 62824	coil trim. 7,96MHz
5202	4822 157 60122	4,7µH 10%

6258	4822 130 80905	LLZ-F5V1

7226	5322 130 41983	BC858B
7228▲	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263▲	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277▲	5322 130 41982	BC848B
7278▲	5322 130 41982	BC848B