Colour television Chassis

Service
Service
Service

FL 1.14 FL 2.14
FL 1.16 FL 2.16
FL 1.17

AA

ServiceManual

Contents

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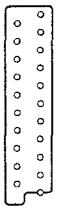
1.Technical data

Mains voltage	: 220 - 240 V (± 10%)
	: 50 Hz - 60 Hz (± 5%)
Aerial input impedance	: 75 Ω - koaxial
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

pecification of the connectors

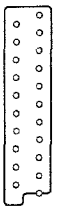
EXT1 (AUX): RGB+CVBS



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 (0,7V_{pp}/75Ω)
8 -CVBS-status ⊖← 0-2V: INT
4,5-7V: EXT 16:9
9,5-12V: EXT 4:3

9 -Green ⊥
10 --
11 -Green (0,7V_{pp}/75Ω)
12 --
13 -Red ⊥
14 -RGB-status
15 -Red (0,7V_{pp}/75Ω)
16 -RGB-status (0-0,4V: INT; 1-3V: EXT/75Ω)
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊖→ (1V_{pp}/75Ω)
20 -CVBS ⊖← (1V_{pp}/75Ω)
21 -Earthscreen

EXT2 (VCR): 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

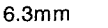
9 --
10 --
11 --
12 --
13 -CHROMA ⊥
14 --
15 -CHROMA ⊖← (1V_{pp}/75Ω)
16 --
17 -CVBS ⊥
18 -CVBS ⊥
19 -CVBS ⊖→ (1V_{pp}/75Ω)
20 -CVBS/Y ⊖← (1V_{pp}/75Ω)
21 -Earthscreen

EXT3 (front)

SVHS

1 - ⊥
2 - ⊥
3 - Y ⊖← (1V_{pp}; 75Ω)
4 - C ⊖← (0,3V_{pp}; 75Ω)

◎ CINCH Video ⊖← 300mV_{pp}/75Ω
◎ CINCH Audio ⊖← L(0,2 - 2VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊖← R(0,2 - 2VRMS; ≥ 10kΩ)



32-2000Ω ≥ 10mW
6.3mm

Audio out (rear)

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

front : 2 x 16W / 8Ω
rear : 2 x 6W / 8Ω

EXT2 (SVHS) (rear)

SVHS

1 - ⊥
2 - ⊥
3 - Y ⊖← (1V_{pp}; 75Ω)
4 - C ⊖← (0,3V_{pp}; 75Ω)

◎ CINCH Audio ⊖← L(0,2 - 2VRMS; ≥ 10kΩ)
◎ CINCH Audio ⊖← R(0,2 - 2VRMS; ≥ 10kΩ)

SVHS

1 - ⊥
2 - ⊥
3 - Y ⊖→ (1V_{pp}; 75Ω)
4 - C ⊖→ (0,3V_{pp}; 75Ω)

◎ CINCH Audio ⊖→ L(0,2 - 2VRMS; ≤ 1kΩ)
◎ CINCH Audio ⊖→ R(0,2 - 2VRMS; ≤ 1kΩ)

Warnings and Notes

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.

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 -11 volts.**

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.

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.

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

2. The direct voltages and oscillograms 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.

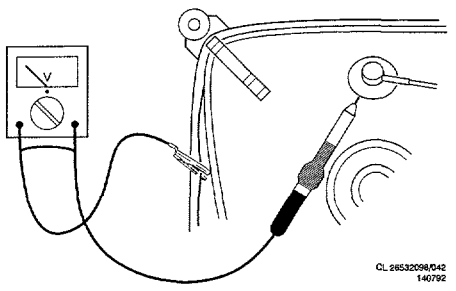


Fig. 3.1

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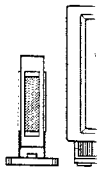

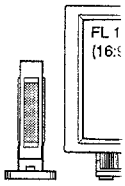

2. Rem

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FL2:F
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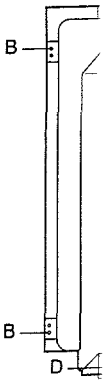


4. Mechanical instructions

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. Model overview (fig.1)

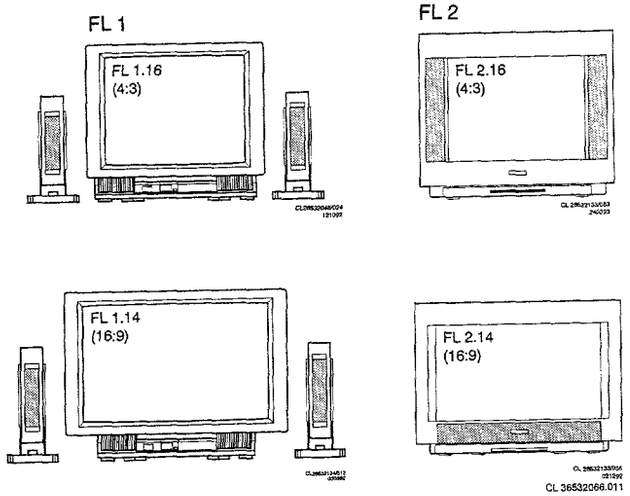


Fig.1

2. Removing the rear panel (fig.2 + 3)

Before the rear panel is removed the connection to the subwoofer should first be disconnected:
FL1:Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)
FL2:Remove the three screws A with which the grille is fixed. Tap the grille downwards as indicated by arrow 1, so that the grille becomes loose. Remove the grille from the rear panel by pulling it in the direction indicated by arrow 2.
Disconnect the cable from the subwoofer as indicated by arrow 3. Remove screws B and C, and also screws D if present.
Remove the rear panel from the set.

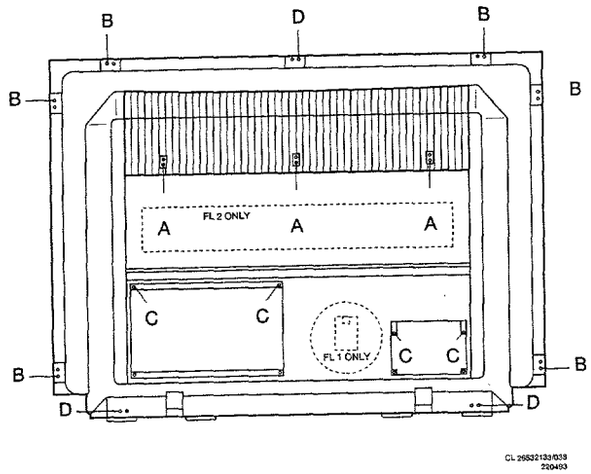


Fig.2

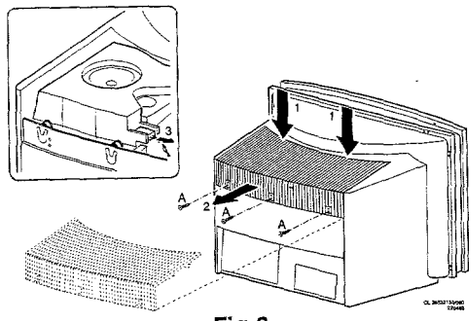


Fig.3

3. Service positions FL1

FL1 can be placed in two service positions. (Fig.4)
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 4a.

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.5) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4b.

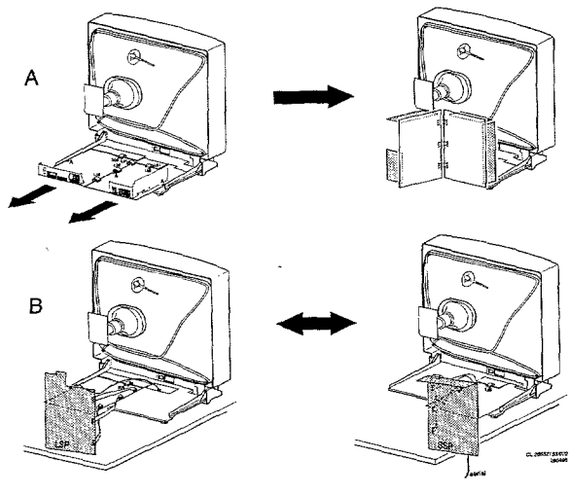


Fig.4

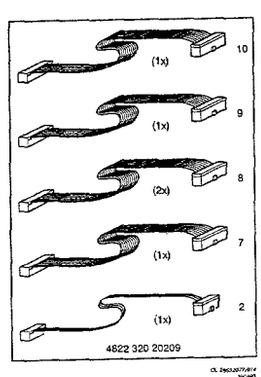


Fig.5

4. Service positions FL2

FL2 can be placed in two service positions. (fig.6)
Remove the rear panel.

Service position 1:

Disconnect connectors E47 and E48. These connectors are located on the side of the set and connect the chassis with the audio, video and headphone connections (FRONT).
Lift the chassis frame at the rear and remove it from the cabinet, removing any hindering cables from the cable ties if necessary. Place the frame one position to the rear, taking care to ensure that the chassis frame lugs are located into the correct recesses.

Service position 2:

Place the chassis in service position 1.
Click the infra-red receiver (IR) out of the retainer located under the picture tube.
Remove the cables to the panel with buttons for local operation from their ties and then click the operating panel out of its holder.
Disconnect the cable to the degaussing coil on the picture tube from the mains filter panel. Remove the cables from and to the mains filter from their cable ties. Click the two service legs loose and place them vertically in the holes as indicated in the diagram. Tilt the entire chassis frame and place the entire unit on both service legs so that the solder side is accessible.

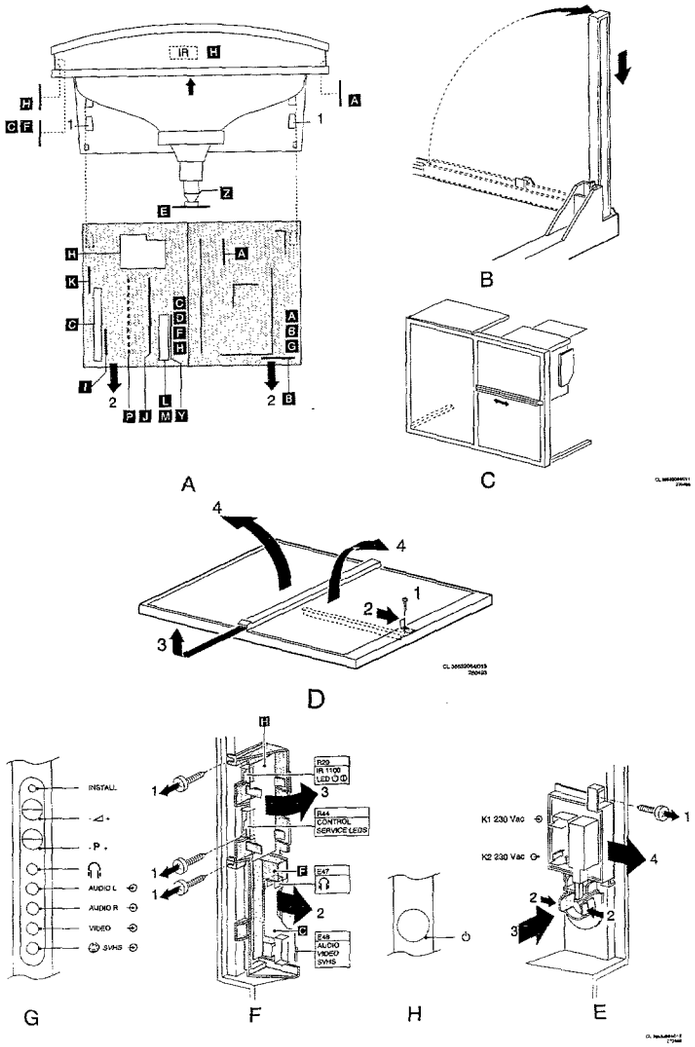


Fig.6

5. Removing the mask from FL2 (fig.7)

Remove the rear panel.
Remove the chassis frame with the chassis from the cabinet.
Remove screws E as indicated in the diagram. Loosen the snap connection under the picture tube. Remove the masker in the manner illustrated in the diagram.

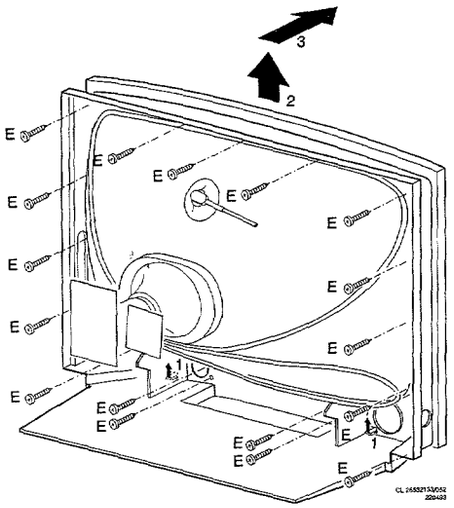


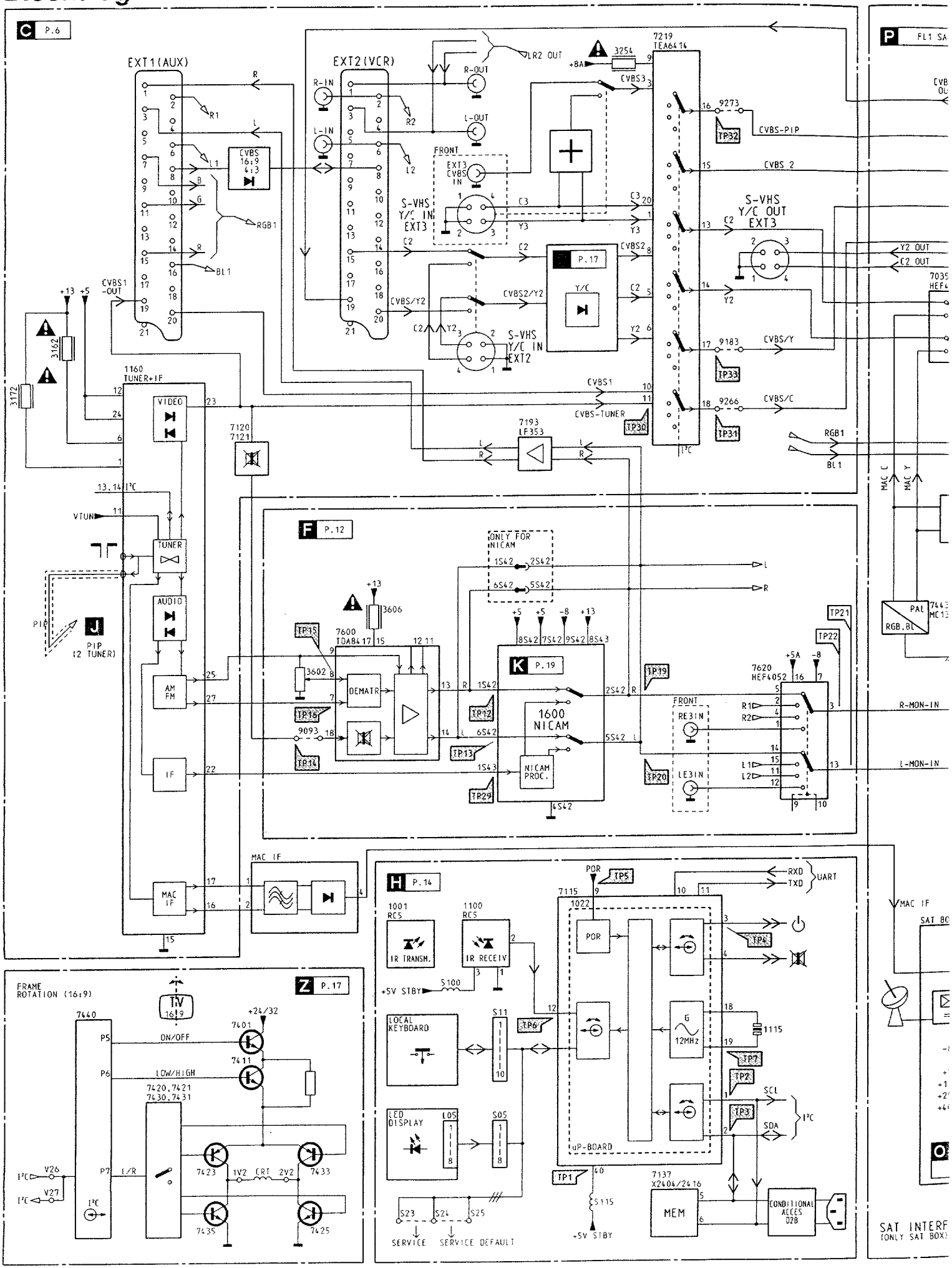
Fig.7

6. Replacing the picture tube.

Remove the rear panel.
Discharge the picture tube in the manner described in chapter 3.
Remove the chassis, or the chassis with the chassis frame from the cabinet.
Disconnect all cabling to the picture tube.
Tilt the set so that the front of the picture tube is pointing downwards, taking care that the picture tube comes to rest on a soft and clean surface.
Loosen the four bolt on the picture tube corners and drop the cabinet gently down onto the work surface. The picture tube can now be removed from the cabinet.

In FL2 special nylon picture tube tubular rivets have been applied. In order to guarantee optimum strength these should not be re-used. Take care to fit correctly when replacing.
Tighten the picture tube screws one-by-one until a torque of approximately 1kgm (10Nm) is achieved.
The picture tube tubular rivets are obtainable under code numbers:
For 28" picture tubes and smaller:4822 532 12243 (28")
For 29" picture tubes and larger:4822 404 31294 (28")
Four tubular rivets are required per picture tube.

Blockdiagram / Blockschaltbild /



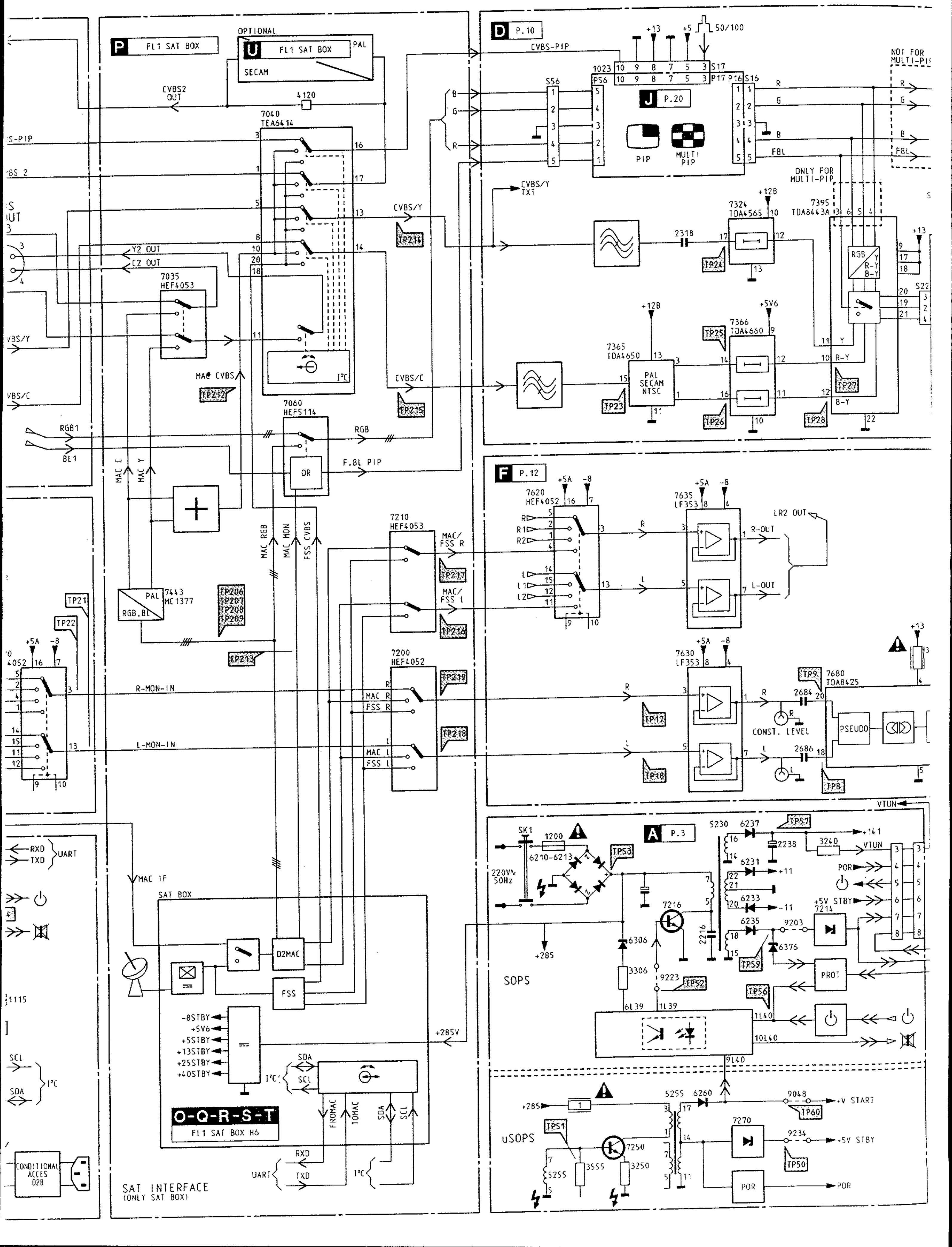
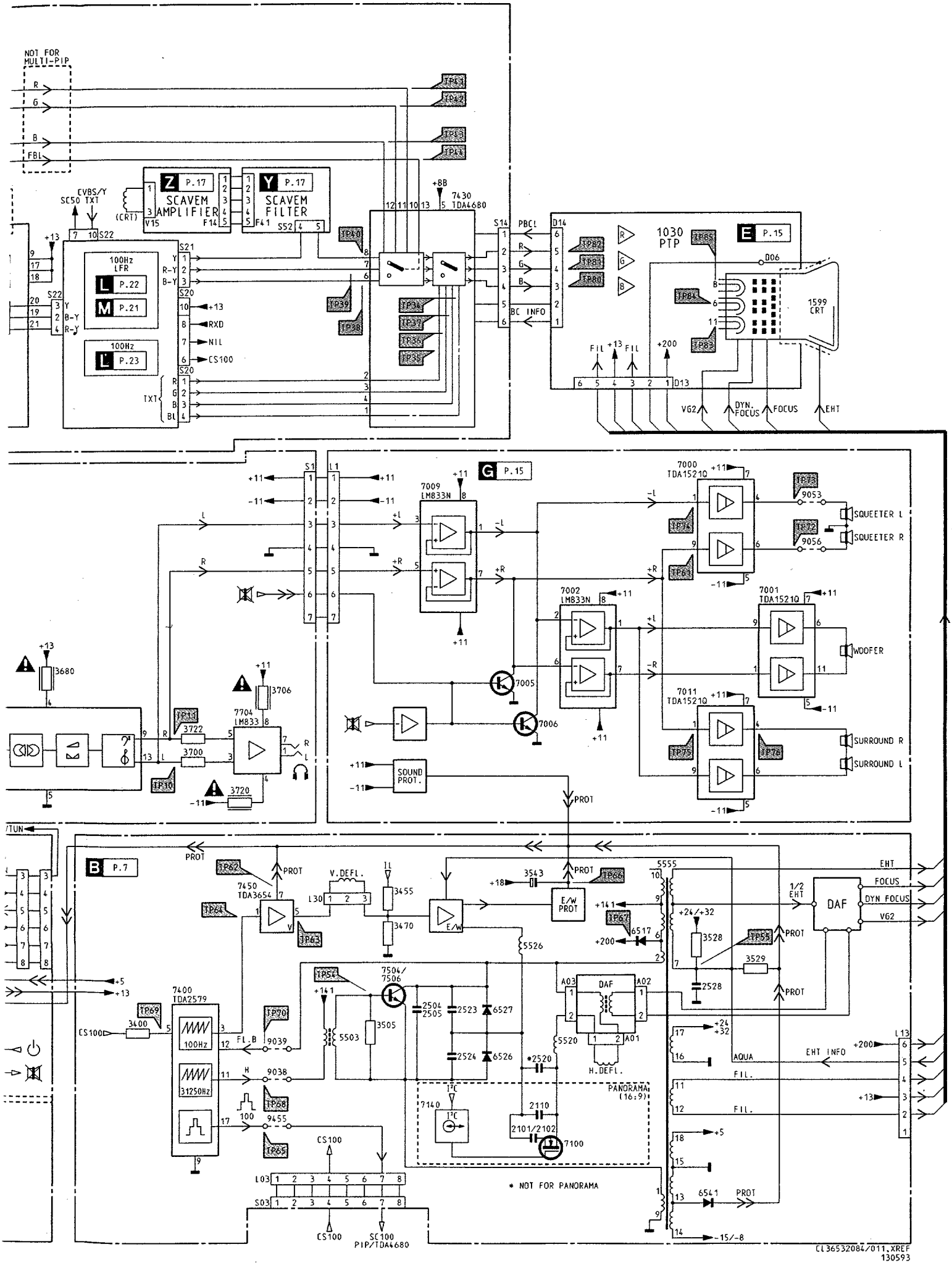
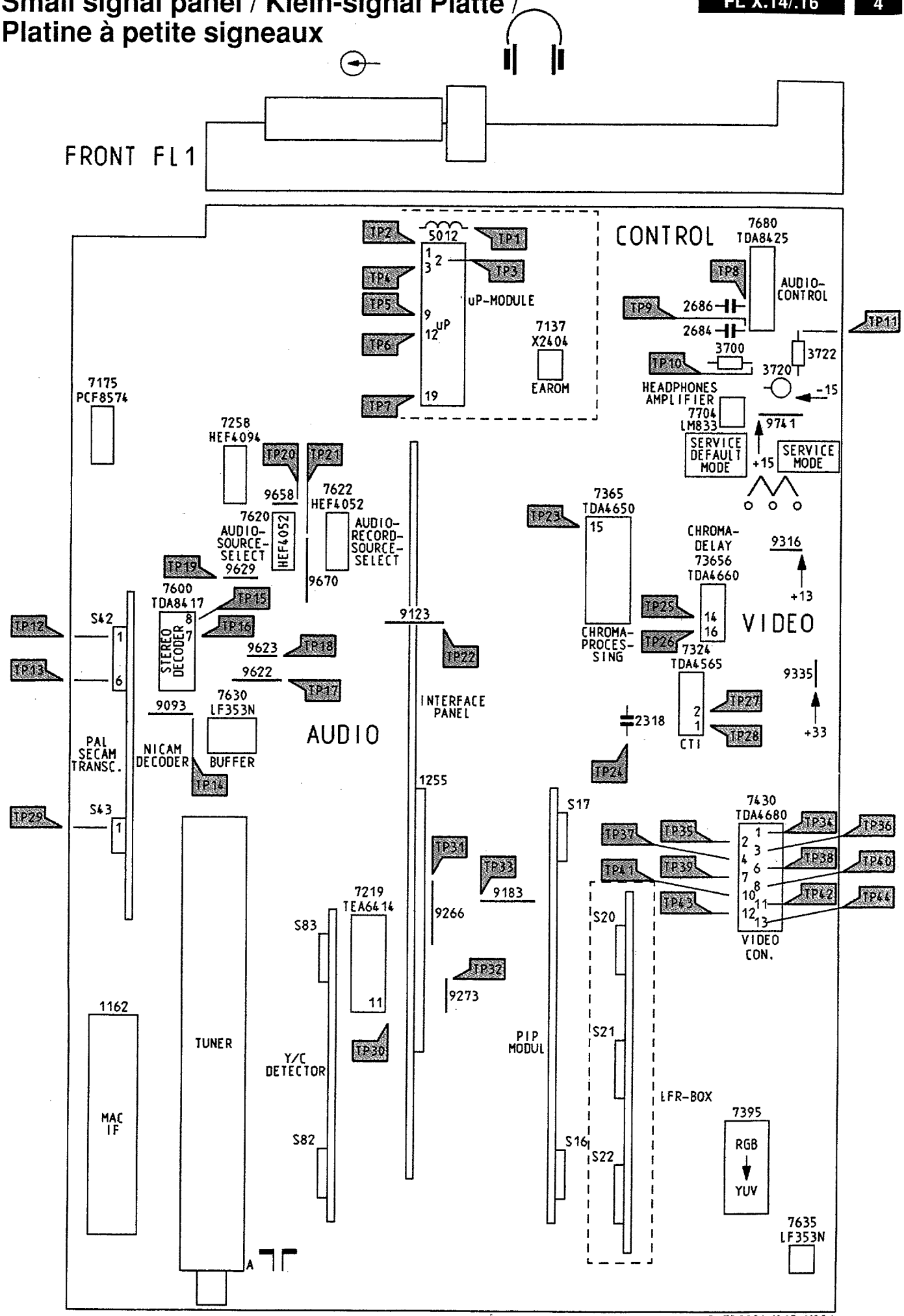

P FL1 SAT BOX
OPTIONAL
U FL1 SAT BOX
PAL
SECAM
CVBS2 OUT
4120
7040 TEA6414
7035 HEF4053
Y2 OUT
C2 OUT
MAC CVBS
7060 HEF5114
RGB1
BL1
RGB
F.BL PIP
OR
MAC C
MAC Y
MAC RGB
MAC MON
FSS CVBS
7443 MC1377
PAL
RGB,BL
7210 HEF4053
MAC/ FSS R
MAC/ FSS L
7200 HEF4052
R-MON-IN
L-MON-IN
MAC R
FSS R
MAC L
FSS L
RXD
TXD
UART
MAC IF
SAT BOX
D2MAC
FSS
-8STBY
+5V6
+5STBY
+13STBY
+25STBY
+40STBY
+285V
SDA
SCL
FROMAC
TOMAC
O-Q-R-S-T
FL1 SAT BOX H6
CONDITIONAL ACCES 028
SAT INTERFACE
(ONLY SAT BOX)
D P.10
CVBS-PIP
50/100
J P.20
PIP
MULTI PIP
NOT FOR MULTI-PIP
ONLY FOR MULTI-PIP
CVBS/Y TXT
7324 TDA4565
7395 TDA8443A
7365 TDA4650
7366 TDA4660
PAL SECAM NTSC
F P.12
7620 HEF4052
7635 LF353
LR2 OUT
R-OUT
L-OUT
7630 LF353
7680 TDA8425
CONST. LEVEL
PSEUDO
A P.3
SK1
220V~ 50Hz
SOPS
7216
+285
PROT
POR
VTUN
+5V STBY
uSOPS
7250
7270
+V START
+5V STBY

Diagramme schématique



CL36532084/011.XREF
130593

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



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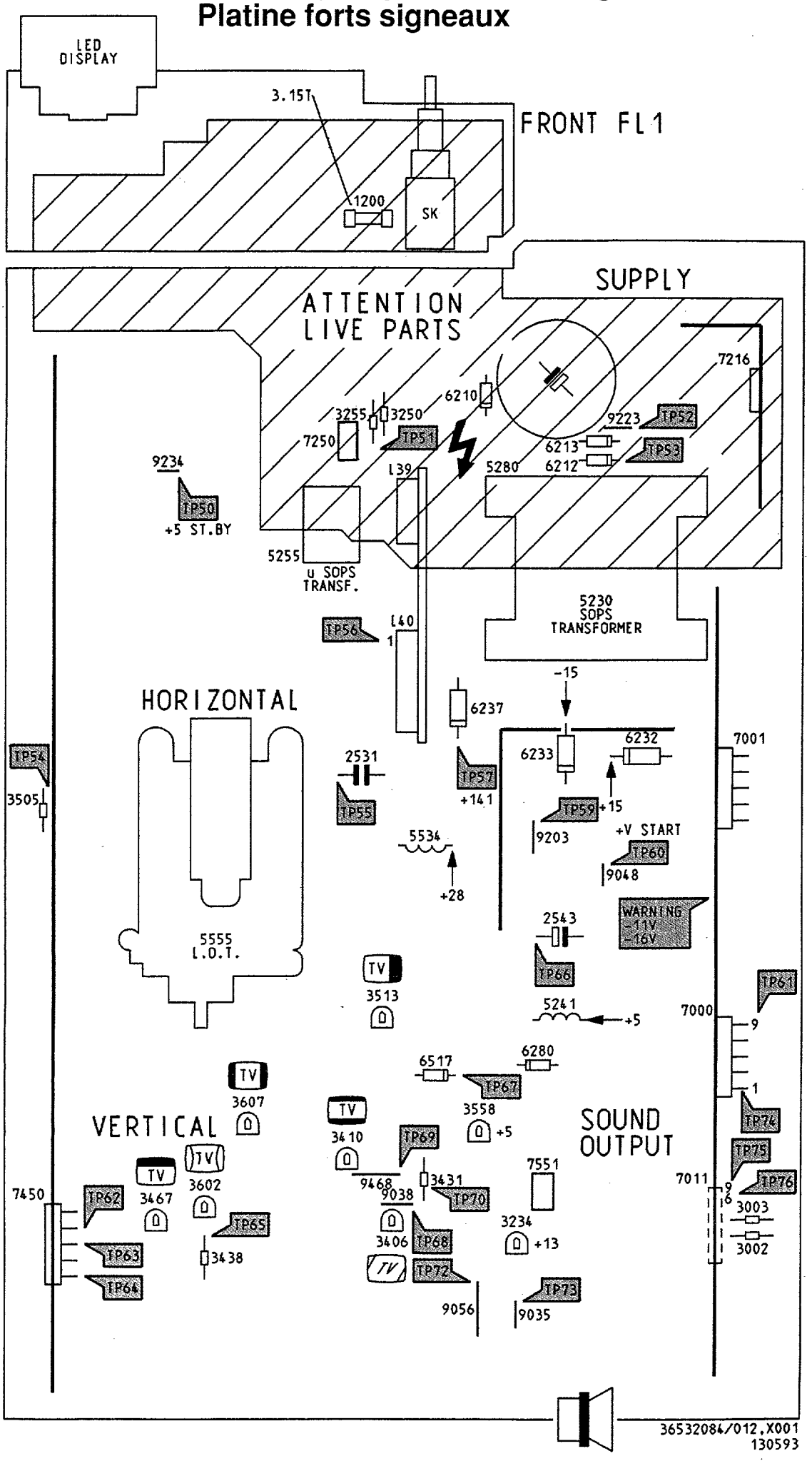
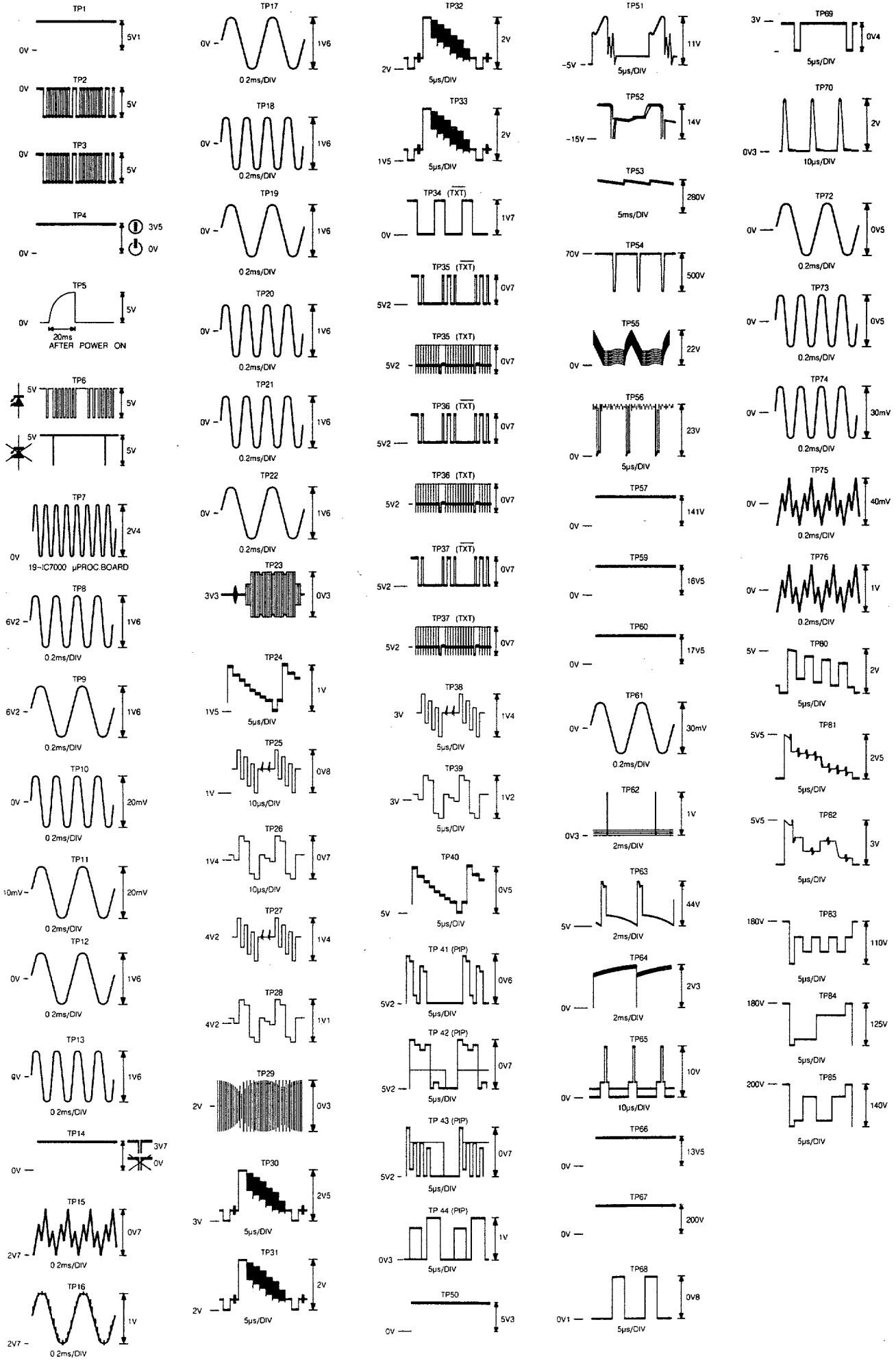
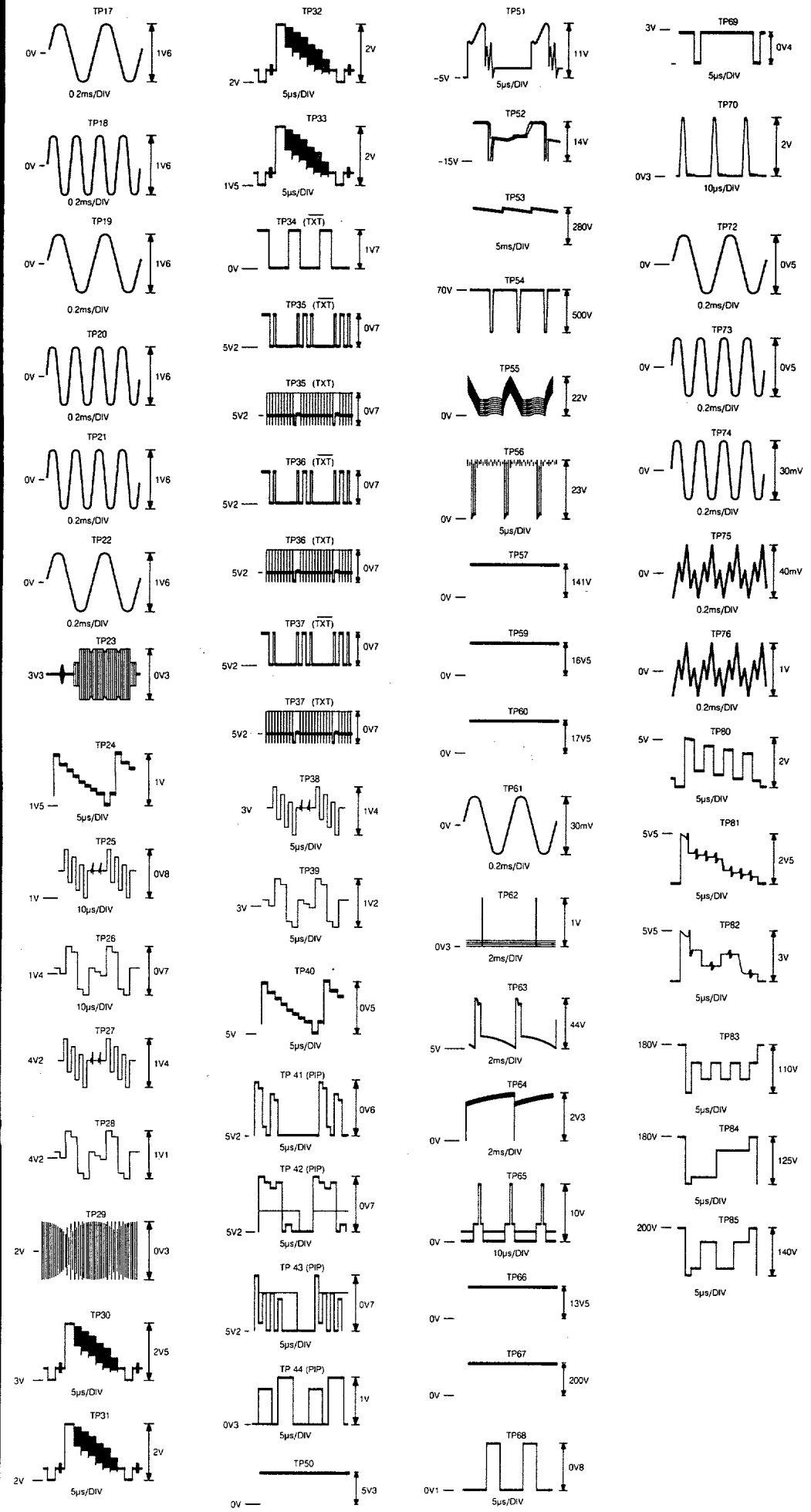
Large signal panel / Groß-signal Platte / Platine forts signeaux



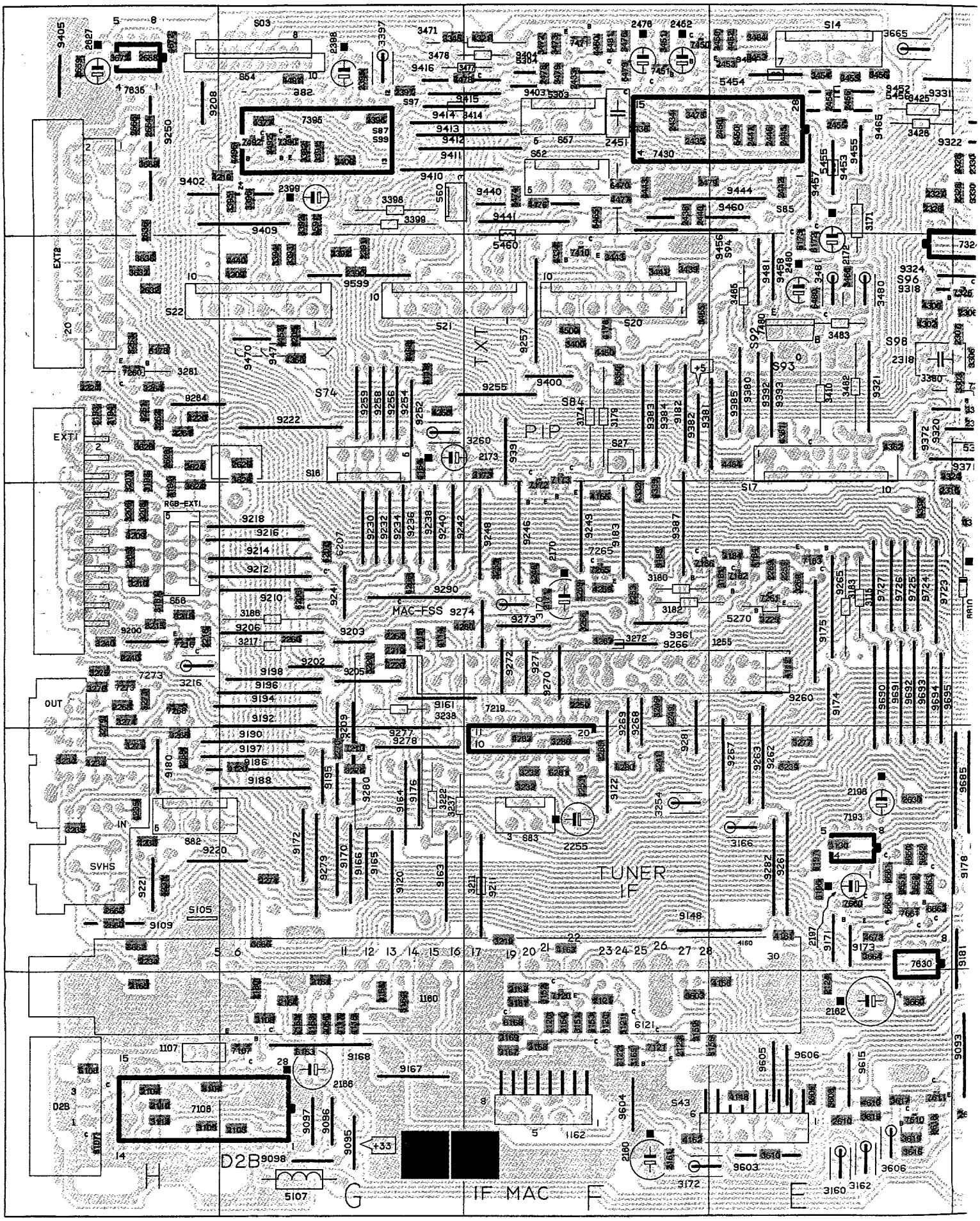
Oscillograms / Oscillogrammes



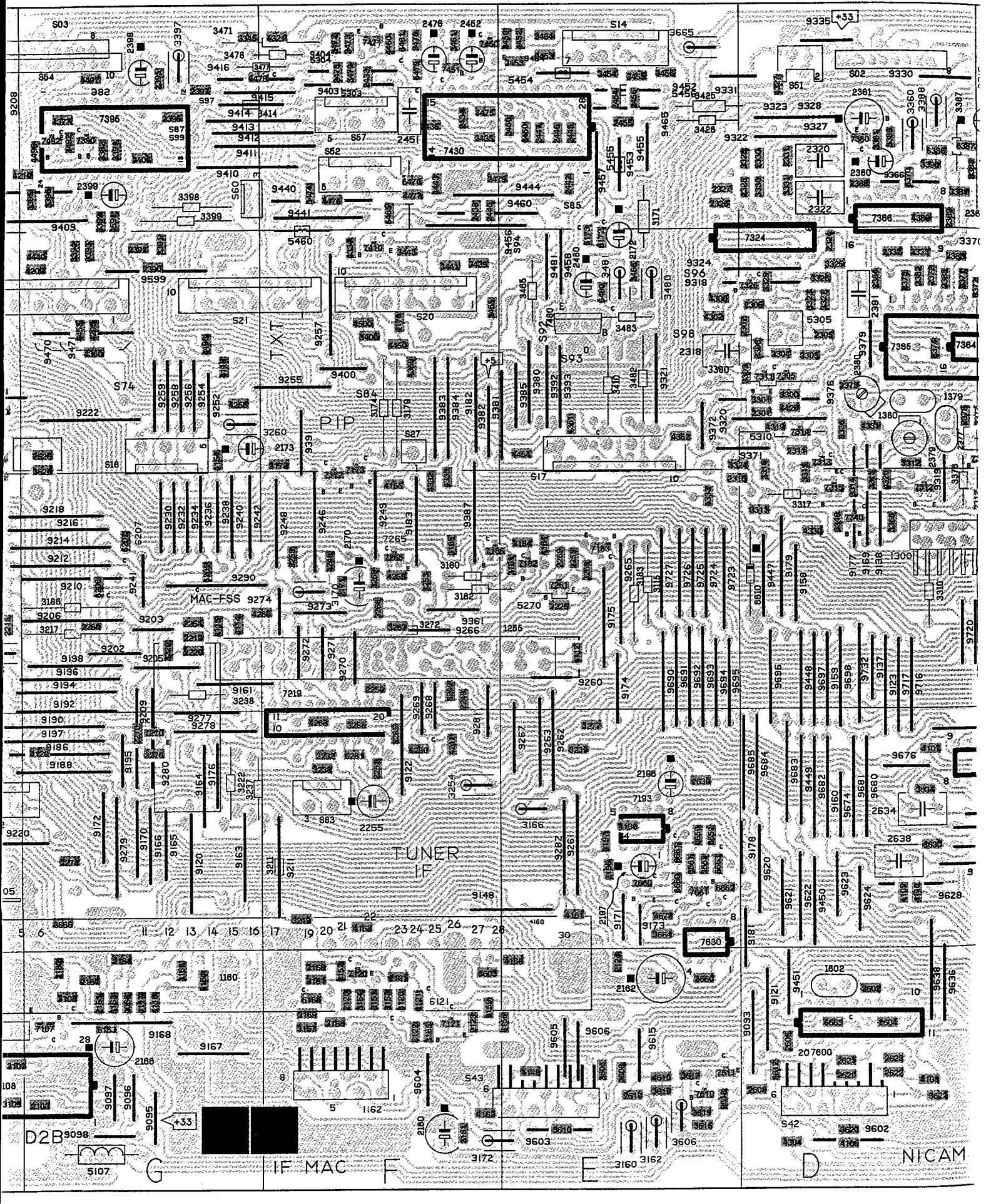
Oscillogrammes

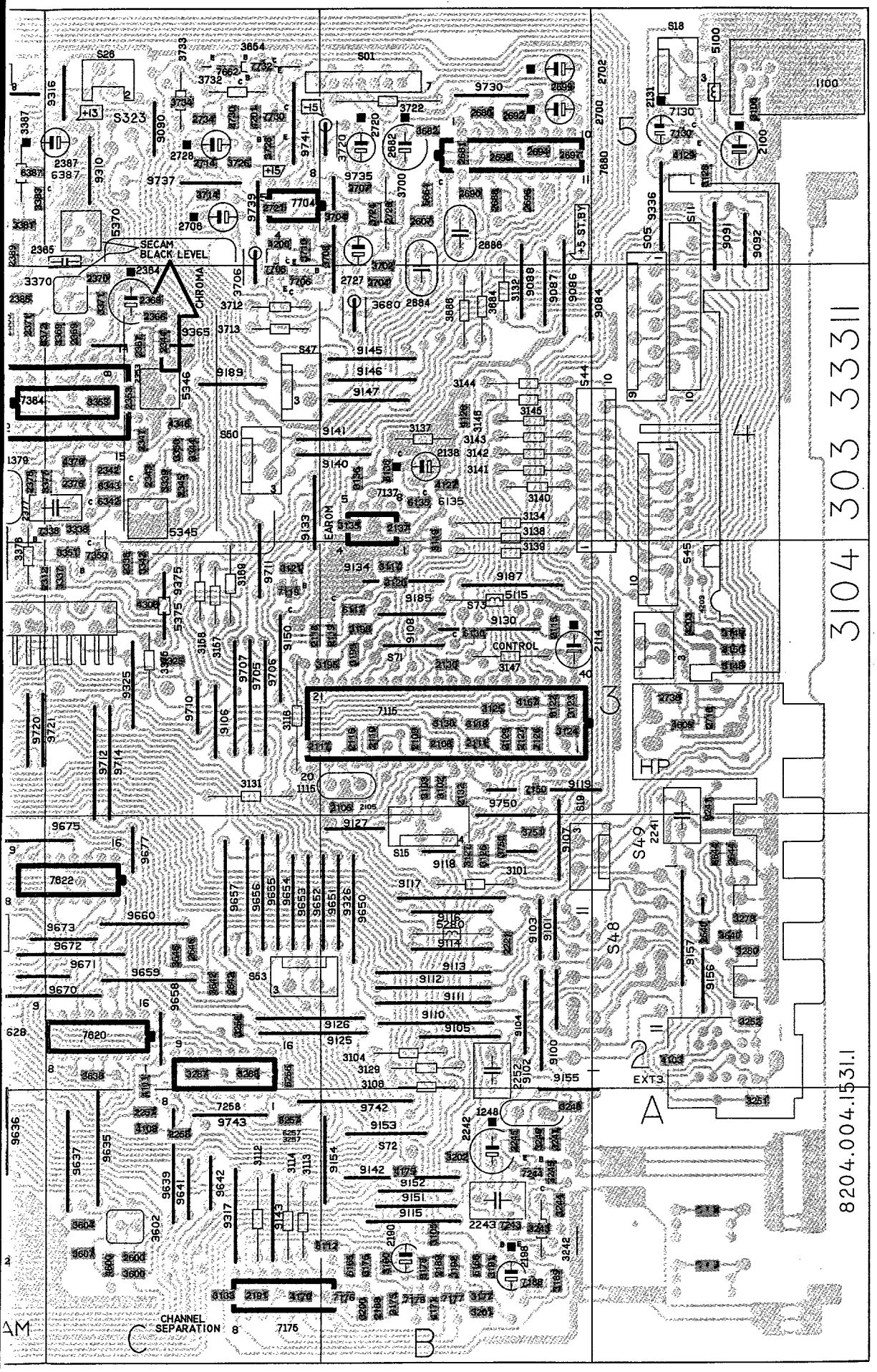


Small signal panel / Klein-signal Platte /



ıel / Klein-signal Platte /





D2B	H1	2250	F3	2636	H
EXT1	H3	2251	F2	2638	D
EXT2	H4	2252	B2	2640	A
EXT3	A3	2253	E3	2642	C
SVHS	H2	2254	G3	2644	A
S01	B5	2255	F2	2646	C
S02	D5	2257	C1	2658	H
S03	H5	2258	C1	2659	H
S05	A4	2260	G3	2660	H
S11	A5	2261	H4	2662	H
S14	E5	2268	H3	2664	H
S15	B2	2269	E3	2666	H
S16	G4	2270	G2	2680	E
S17	E4	2274	G2	2681	E
S18	A5	2301	D4	2682	E
S19	B2	2305	D4	2684	E
S20	F4	2306	D4	2686	E
S21	F4	2307	D4	2688	E
S22	G4	2310	D3	2690	E
S26	C5	2311	D4	2692	E
S27	F4	2312	C3	2694	E
S42	D1	2318	E4	2696	E
S43	E1	2320	D5	2697	E
S44	B4	2322	D5	2698	E
S45	A4	2324	D4	2699	E
S46	A3	2326	E5	2700	E
S47	C4	2327	E5	2702	E
S48	B2	2328	D5	2704	E
S49	A2	2330	D5	2706	C
S50	C4	2331	D5	2707	E
S51	D5	2332	D4	2714	C
S52	F5	2333	D4	2716	A
S53	C2	2338	C3	2720	E
S54	H5	2342	C4	2721	C
S56	H3	2343	C4	2726	E
S57	F5	2344	C4	2727	E
S60	G5	2345	C4	2728	C
S82	G2	2347	C4	2734	C
S83	F2	2353	C4	2736	A
S100	F4	2360	D5	3100	A
S101	D3	2361	D5	3101	E
S105	H2	2364	C4	3102	E
1100	A5	2365	C4	3103	E
1107	G1	2366	C4	3104	E
1115	B3	2367	C4	3105	E
1160	E2	2368	C4	3106	E
1162	F1	2369	C4	3107	E
1248	B1	2370	C4	3108	C
1300	D3	2371	D4	3109	H
1379	D4	2372	D4	3110	H
1380	D4	2373	D4	3111	H
1602	D1	2374	D4	3112	C
2100	A5	2375	D4	3113	C
2103	G1	2376	C4	3114	C
2105	B3	2377	C4	3115	E
2107	H1	2378	D4	3116	C
2108	B3	2379	D4	3117	E
2109	B3	2380	D4	3118	E
2110	B3	2381	D4	3119	E
2111	B3	2382	D4	3120	E
2114	B3	2383	D4	3121	C
2115	B3	2384	D4	3122	E
2116	B3	2385	D4	3123	E
2117	B3	2387	C5	3124	F
2118	C3	2388	D5	3125	I
2119	B3	2389	D5	3126	I
2120	F1	2390	G4	3127	E
2121	F1	2391	G4	3128	A
2122	F1	2392	G4	3129	I
2123	F1	2395	G5	3130	I
2124	E1	2396	G5	3131	C
2126	B3	2397	G5	3132	I
2127	B3	2398	G5	3133	C
2129	B3	2399	G5	3134	F
2130	B3	2400	G5	3135	
2131	A5	2433	F5	3136	
2132	B3	2434	F5	3137	I
2137	B4	2435	F5	3138	I
2138	B4	2436	F5	3139	
2160	F1	2438	F5	3140	
2161	F1	2440	F5	3141	
2162	E1	2442	E5	3142	
2163	G1	2445	E5	3143	
2164	G1	2446	E5	3144	
2165	H1	2447	E5	3145	
2166	G1	2450	E5	3146	
2168	F1	2451	F5	3147	
2169	F1	2452	F5	3148	
2170	F3	2453	E5	3149	
2171	F3	2454	E5	3150	
2172	E4	2455	E5	3151	
2173	G4	2456	E5	3152	
2180	G1	2476	F5	3153	
2181	G1	2478	F5	3154	
2188	B1	2479	E5	3155	
2189	B1	2480	E4	3156	
2190	B1	2600	C1	3157	
2191	C1	2602	D1	3158	
2193	H4	2604	D1	3159	
2194	H4	2606	D1	3160	
2196	E2	2607	B5	3161	
2197	E2	2608	D1	3162	
2198	B1	2610	E1	3163	
2216	H3	2620	D1	3164	
2219	G3	2621	D1	3165	
2220	G3	2622	D1	3166	
2221	B2	2623	D1	3167	
2234	H2	2624	H4	3168	
2240	H3	2626	G4	3169	
2241	A2	2627	H5	3170	
2242	B1	2628	H4	3171	
2243	B1	2630	E2	3172	
2245	B1	2632	H4	3173	
2249	F3	2634	D2	3174	

Platine à petites signeaux

H1	2250	F3	2636	H4	3175	B1	3329	D4	3682	B5	4591	G5	7390	G5	9186	G2	9414	G5
H3	2251	F2	2638	D2	3176	B1	3330	D5	3684	B4	4600	C1	7395	G5	9187	B3	9415	F5
H4	2252	B2	2640	A2	3177	B1	3331	D5	3686	B4	4605	A3	7410	F4	9188	G2	9416	F5
A3	2253	E3	2642	C2	3178	B1	3336	D4	3700	B5	4610	E1	7430	E5	9189	C4	9440	F5
H2	2254	G3	2644	A2	3179	F4	3337	C3	3702	B4	4672	H5	7450	F5	9190	G2	9441	F5
B5	2255	F2	2646	C2	3180	F3	3338	C4	3704	B5	4673	E2	7451	F5	9192	G2	9444	E5
D5	2257	C1	2658	H5	3181	E3	3339	C4	3706	C4	5100	A5	7471	F5	9194	G3	9447	D3
H5	2258	C1	2659	H5	3182	F3	3342	C3	3708	B5	5107	G1	7480	E4	9195	G2	9448	D3
A4	2260	G3	2660	H2	3183	E3	3344	C4	3710	C5	5115	B3	7492	G5	9196	G3	9449	D2
A5	2261	H4	2662	H2	3184	E3	3345	G5	3712	C4	5270	E3	7600	D1	9197	G2	9450	D2
E5	2268	H3	2664	H5	3185	F3	3346	D3	3713	C4	5280	B2	7610	E1	9198	G3	9451	D1
B2	2269	E3	2666	H5	3186	G3	3350	C4	3714	C5	5303	F5	7611	E1	9200	H3	9452	E5
G4	2270	G2	2680	B5	3187	H3	3351	C3	3720	B5	5304	F5	7620	C2	9202	G3	9453	E5
E4	2274	G2	2681	B5	3189	B1	3353	C4	3722	B5	5305	D4	7622	C2	9203	G3	9454	E5
A5	2301	D4	2682	B5	3190	B1	3360	D5	3724	B5	5310	D4	7630	E1	9205	G3	9455	E5
B2	2305	D4	2684	B4	3191	B1	3361	D5	3726	C5	5345	C4	7635	H5	9206	G3	9456	F4
F4	2306	D4	2686	B5	3192	B1	3365	D3	3728	C5	5346	C4	7660	E2	9208	H5	9457	E5
F4	2307	D4	2688	B5	3193	H3	3369	C4	3730	C5	5370	C5	7661	E2	9209	G2	9458	E4
G4	2310	D3	2690	B5	3194	H3	3370	C4	3732	C5	5375	C3	7662	C5	9210	G3	9460	F5
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F4	2312	C3	2694	B5	3196	E2	3372	C4	3734	C5	5455	E5	7704	C5	9212	G3	9466	E4
D1	2318	E4	2696	B5	3197	E2	3375	C3	3750	B2	5456	E5	7706	C4	9214	G3	9470	G4
E1	2320	D5	2697	B5	3198	B3	3376	D3	3751	B2	5460	F4	7708	C4	9216	G3	9471	G4
B4	2322	D5	2698	B5	3199	B3	3377	C4	3996	A1	6107	H1	7730	C5	9218	G3	9481	E4
A4	2324	D4	2699	B5	3200	B1	3380	D4	3997	A1	6108	H1	7732	C5	9220	G2	9599	G4
A3	2326	E5	2700	B5	3201	B1	3381	D5	3998	A1	6112	B1	9084	B4	9221	H2	9602	D1
C4	2327	E5	2702	B5	3202	B1	3382	G5	3999	A1	6117	B3	9086	B4	9222	G4	9603	E1
B2	2328	D5	2704	B4	3205	H3	3383	D5	4066	G1	6120	F1	9087	B4	9230	G3	9604	F1
A2	2330	D5	2706	C5	3206	H3	3387	D5	4103	A2	6121	F1	9088	B4	9232	G3	9605	E1
C4	2331	D5	2707	B5	3207	H3	3388	D5	4105	D1	6130	B3	9089	G2	9234	G3	9606	E1
D5	2332	D4	2714	C5	3208	H3	3389	D5	4106	D1	6135	B4	9090	C5	9236	G3	9615	E1
F5	2333	D4	2716	A3	3209	H3	3390	D5	4107	D2	6136	B4	9091	A5	9238	G3	9620	D2
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H3	2343	C4	2726	B5	3215	H3	3393	G4	4110	D2	6166	B1	9095	G1	9242	G3	9623	D2
F5	2344	C4	2727	B5	3216	H3	3394	G4	4111	C2	6168	F1	9096	G1	9246	F3	9624	D2
G5	2345	C4	2728	C5	3217	G3	3395	G5	4112	E3	6172	E4	9097	G1	9248	F3	9628	D2
G2	2347	C4	2734	C5	3218	H3	3396	G5	4114	G3	6173	E4	9098	G1	9249	F3	9635	C1
F2	2353	C4	2736	A3	3219	F2	3397	G5	4115	G3	6178	H4	9100	B2	9250	H5	9636	D1
F4	2360	D5	3100	A5	3220	G3	3398	G5	4116	G1	6205	G3	9101	B2	9252	G4	9637	C1
D3	2361	D5	3101	B2	3222	G2	3399	G5	4117	G1	6206	G3	9102	B2	9254	G4	9638	D1
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A5	2365	C4	3103	B3	3225	E3	3410	E4	4120	G2	6256	C2	9104	B2	9256	G4	9641	C1
G1	2366	C4	3104	B2	3232	F2	3414	G5	4126	B4	6257	C1	9105	B2	9257	F4	9642	C1
B3	2367	C4	3105	B1	3233	F2	3425	E5	4127	B4	6280	F2	9106	C3	9258	G4	9650	B2
E2	2368	C4	3106	B2	3234	H2	3426	E5	4129	A5	6281	F2	9107	B2	9259	G4	9651	B2
F1	2369	C4	3107	H1	3235	H2	3439	F4	4130	E2	6342	C4	9108	B3	9260	E3	9652	C2
B1	2370	C4	3108	G1	3237	G2	3441	F4	4148	E1	6343	C4	9109	H2	9261	E2	9653	C2
D3	2371	D4	3109	H1	3238	G3	3443	F4	4161	E2	6345	E4	9110	B2	9262	E2	9654	C2
D4	2372	D4	3110	H1	3239	E2	3450	E5	4162	F1	6370	D5	9111	B2	9263	E2	9655	C2
D4	2373	D4	3111	H1	3240	H3	3451	F5	4163	F2	6386	D5	9112	B2	9264	H4	9656	C2
D1	2374	D4	3112	C1	3241	A3	3453	E5	4164	G4	6387	D5	9113	B2	9265	E3	9657	C2
A5	2375	D4	3113	C1	3242	B1	3454	E5	4165	F3	6450	E5	9114	B2	9266	F3	9658	C2
G1	2376	C4	3114	C1	3243	B1	3455	E5	4166	E1	6465	F5	9115	B1	9267	E2	9659	C2
B3	2377	C4	3115	E3	3244	B1	3456	E5	4167	B3	6470	F5	9116	B2	9268	F3	9660	C2
H1	2378	D4	3116	C3	3245	B1	3465	F4	4170	C1	6471	F5	9117	B2	9269	F2	9670	C2
B3	2379	D4	3117	B3	3246	B1	3466	E4	4171	B1	6478	F5	9118	B2	9270	F3	9671	C2
B3	2380	D4	3118	B3	3247	B1	3471	F5	4175	B1	6479	F5	9119	B3	9271	F3	9672	C2
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B3	2382	D4	3120	B3	3249	F3	3473	F5	4184	E3	6481	F5	9121	D1	9273	F3	9674	D2
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C3	2388	D5	3125	B3	3255	F3	3478	F5	4209	G4	6662	E2	9127	B2	9280	G2	9681	D2
B3	2389	D5	3126	B2	3256	C2	3479	F5	4210	G5	6663	E2	9130	B3	9281	F2	9682	D2
F1	2390	G4	3127	B2	3257	C1	3480	E4	4220	H4	6664	B5	9131	G2	9282	E2	9683	D2
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F1	2392	G4	3129	B2	3260	G4	3482	E4	4235	H2	7107	G1	9133	C4	9310	C5	9685	D2
F1	2395	G5	3130	B3	3261	H4	3483	E4	4236	H2	7108	G1	9134	B3	9316	C5	9690	E3
E1	2396	G5	3131	C3	3262	H4	3484	E5	4237	H2	7115	B3	9137	D3	9317	C1	9691	E3
B3	2397	G5	3132	B4	3263	H4	3492	G5	4241	F2	7119	C3	9138	D3	9318	D4	9692	E3
B3	2398	G5	3133	C1	3264	H4	3600	C1	4246	F3	7120	F1	9140	B4	9319	D3	9693	E3
B3	2399	G5	3134	B4	3265	H2	3602	C1	4255	G4	7121	F1	9141	B4	9320	D4	9694	E3
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H1	2447	E5	3145	B4	3276	H3	3617	E1	4325	C3	7183	E3	9154	B1	9335	D5	9714	C3
G1	2450	E5	3146	B4	3277	E2	3618	E1	4327	D5	7186	E3	9155	B1	9336	A5	9716	D3
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F3	2453	E5	3149	A3	3280	A2	3622	D1	4332	F3	7216	H3	9158	D3	9366	D5	9721	C3
F3	2454	E5	3150	A3	3281	H4	3624	H3	4333	E3	7219	F2	9159	D3	9371	D4	9723	E3
E4	2455	E5	3151	F1	3285	F2	3626	G3	4334	F4	7243	B1	9160	D2	9372	E4	9724	E3
G4	2456	E5	3152	F1	3286	F2	3628	H4	4335	F3	7244	B1	9161	G3	9375	C3	9725	E3
G1	2476	F5	3153	F1	3287	C2	3630	D2	4346	C4	7258	C1	9163	G2	9376	D4	9726	E3
G1	2478	F5	3154	F1	3288	C2	3632	H4	4350	F4	7260	H4	9164	G2	9379	D4	9727	E3
B1	2479	E5	3155	F1	3300	D4	3634	D2	4360	G4	7261	E3	9165	G2	9380	E4	9730	B5
B1	2480	E4	3156	E1	3301	D4	3636	H4	4361	E4	7265	F3	9166	G2	9381	E4	9732	D3
B1	2600	C1	3157	C3	3303	D4	3638	C2	4362	E4	7268	H3	9167	G1	9382	F4	9735	B5
C1	2602	D1	3158	C3	3304	D4	3640	A2	4376	C4	7270	G2	9168	G1	9383	F4	9737	C5
H4	2604	D1	3159	F1	3305	D4	3642	C2	4377	G5	7273	H3	9169	D3	9384	F4	9739	C5
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E2	2607	B5	3161	F1	3310	D3	3646	C2	4420	D4	7311	D4	9171	E2	9387	F3	9742	B1
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H3	2620	D1	3164	G1	3313	D3	3652	E2	4450	F4	7314	D4	9174	E3	9393	E4		
G3	2621	D1	3165	G1	3314	D3	3653	E2	4452	E5	7315	D3	9175	E3	9400	F4		
G3	2622	D1	3166	E2	3315	D3	3654	C5	4453	G4	7324	E5	9176	G2	9402	G5		
B2	2623	D1	3167	F1	3316	D3	3660	E1	4454	E4	7326	D4	9177	D3	9403	F5		
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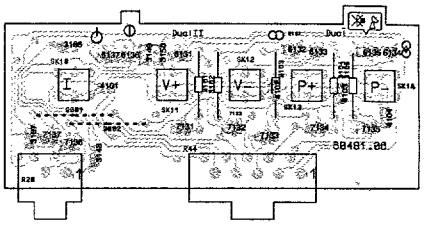
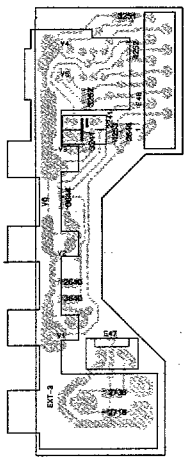
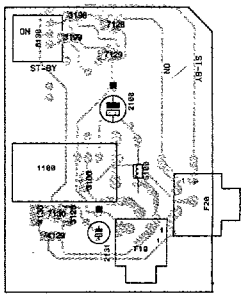
H3	2626	G4	3169	C3	3323	D4	3664	E2	4476	F5	7340	D3	9179	D3	9405	H5		
A2	2627	H5	3170	F3	3324	D4	3665	E5	4477	F5	7350	C3	9180	H2	9409	G5		
B1	*2628*	*H4*	3171	E5	3325	D4	3666	G2	4496	G5	7360	D5	9181	D2	9410	G5		
B1	2630	E2	3172	E1	3326	D4	3668	H5	4497	G5	7364	D4	9182	F4	9411	F5		
B1	2632	H4	3173	F4	3327	D4	3672	H5	4498	G4	7365	D4	9183	F3	9412	F5		
F3	2634	D2	3174	F4	3328	D5	3680	B4	4500	F4	7366	D5	9185	B3	9413	F5		







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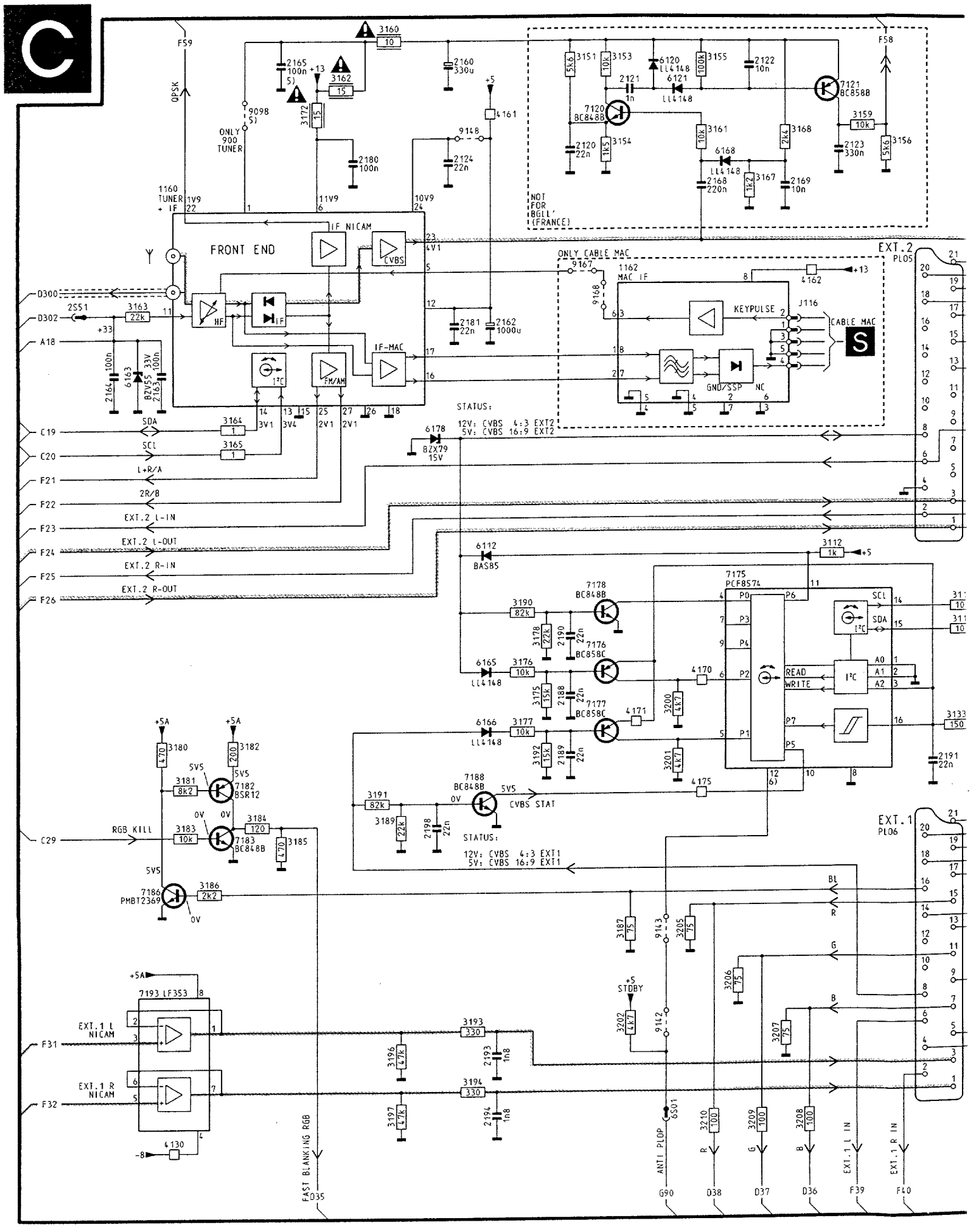

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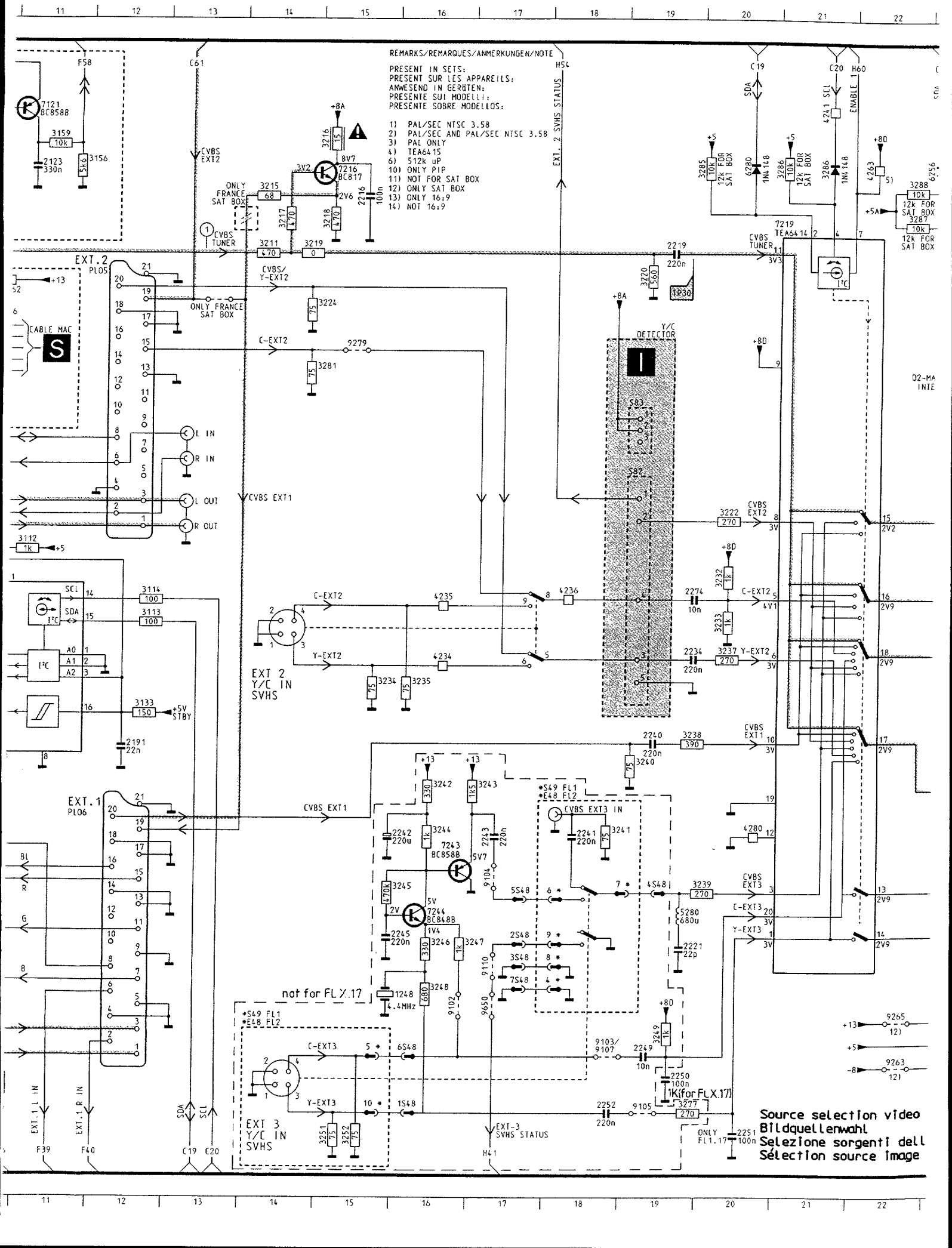

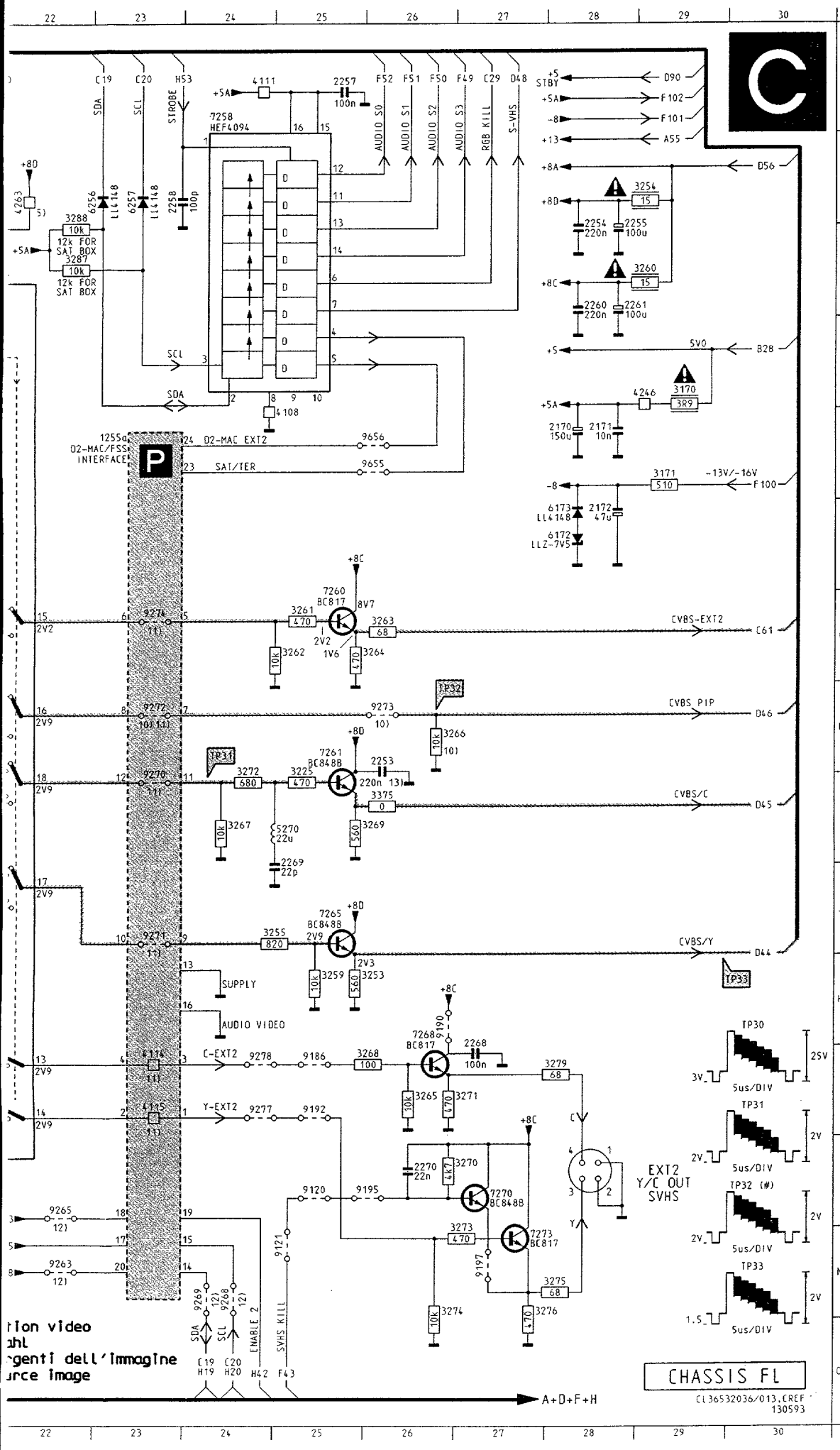

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2160	A 6	3246	L16	9274	G23
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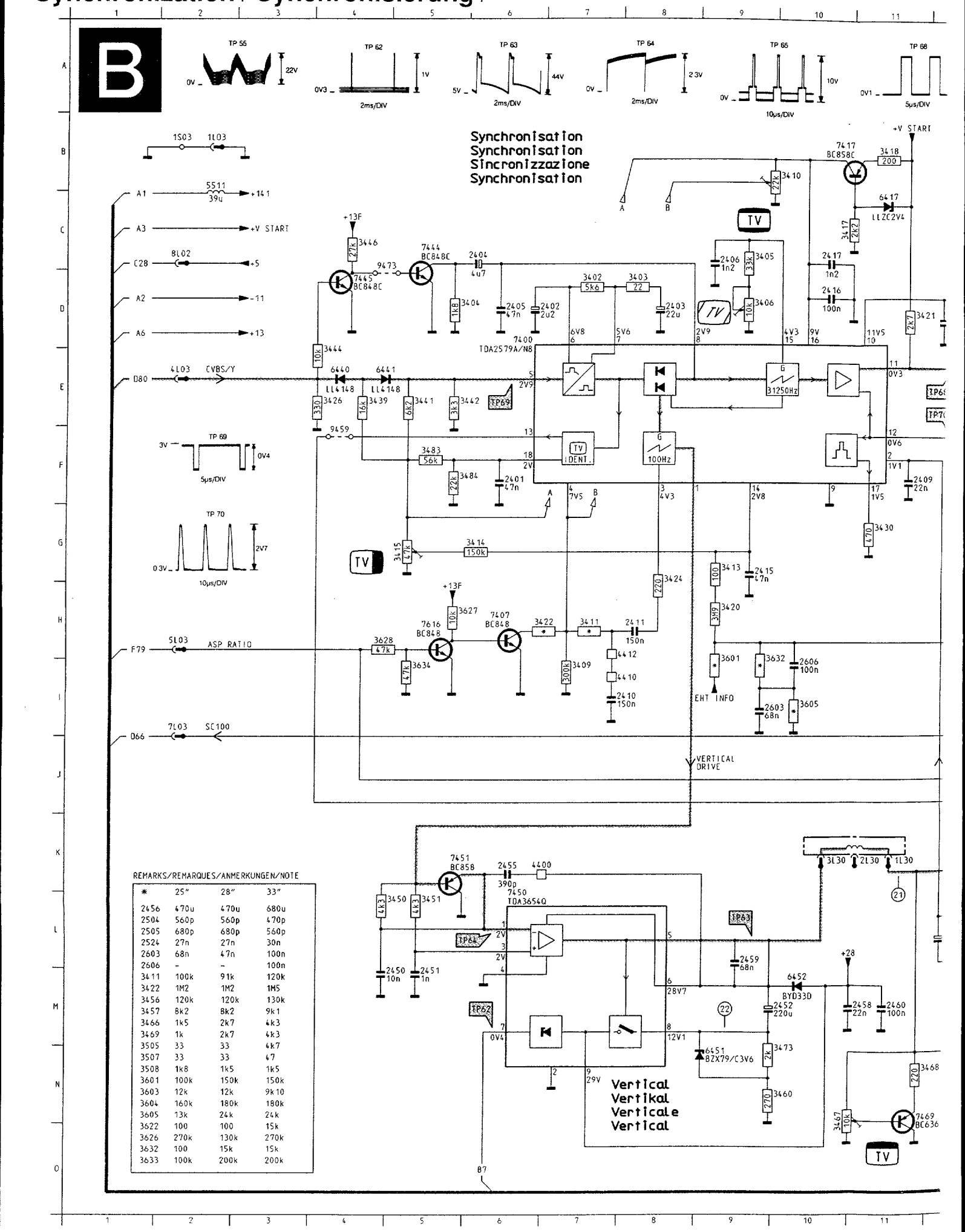

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2606	-	-	100n
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3422	1M2	1M2	1M5
3456	120k	120k	130k
3457	8k2	8k2	9k1
3466	1k5	2k7	4k3
3469	1k	2k7	4k3
3505	33	33	4k7
3507	33	33	47
3508	1k8	1k5	1k5
3601	100k	150k	150k
3603	12k	12k	9k10
3604	160k	180k	180k
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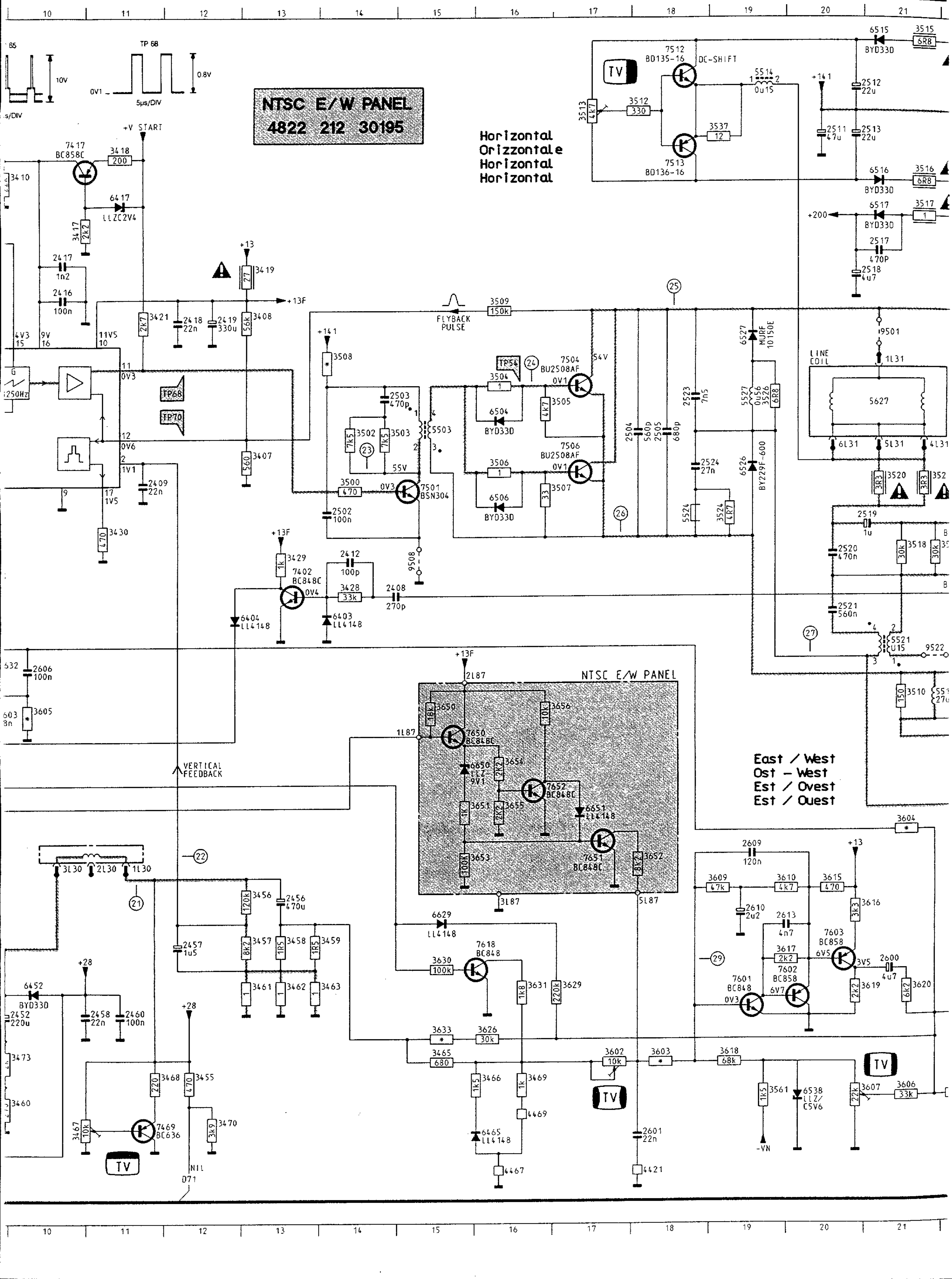

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Horizontal
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VERTICAL FEEDBACK
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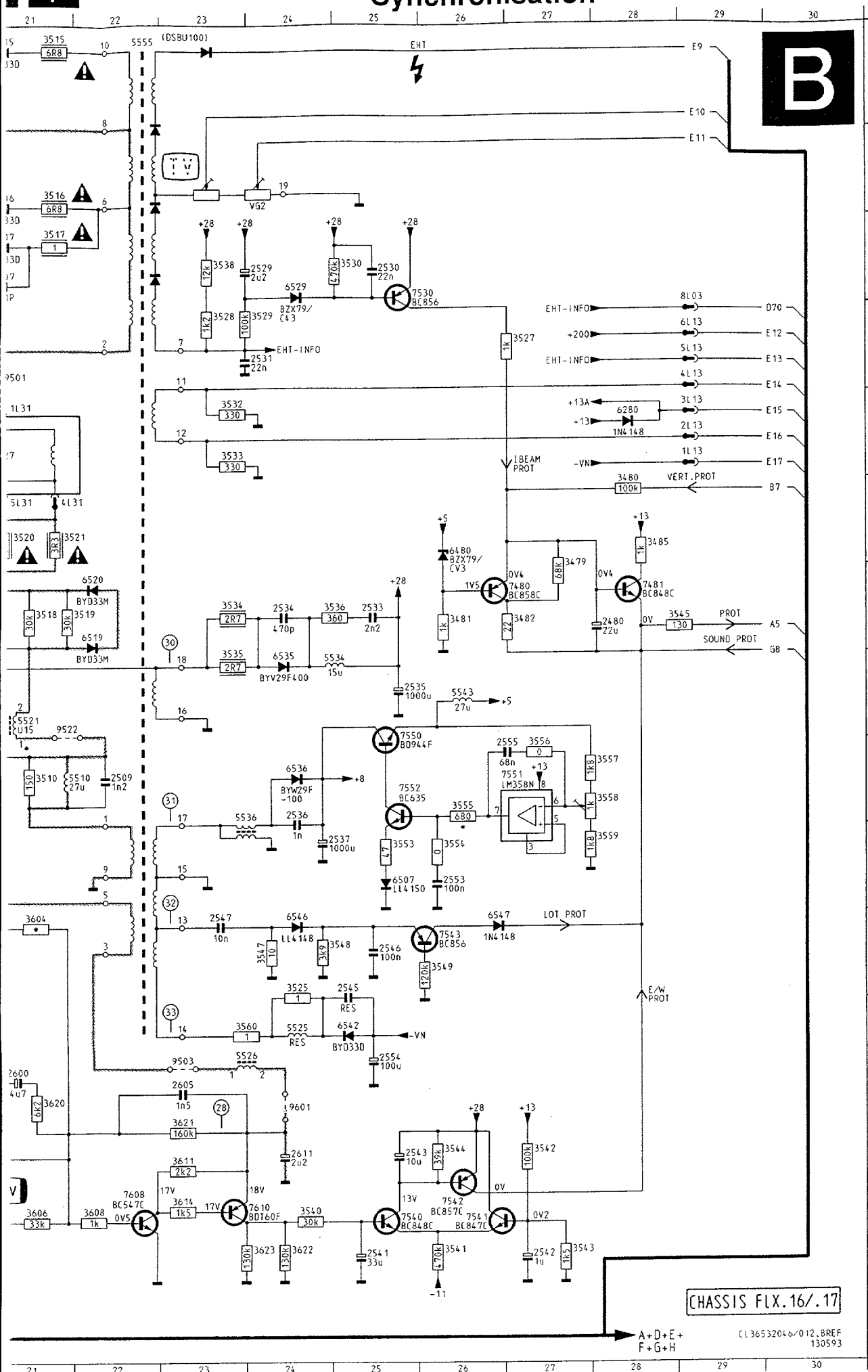
DC-SHIFT
+V START

Synchronisation



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3422	H 7	3634	I 5		
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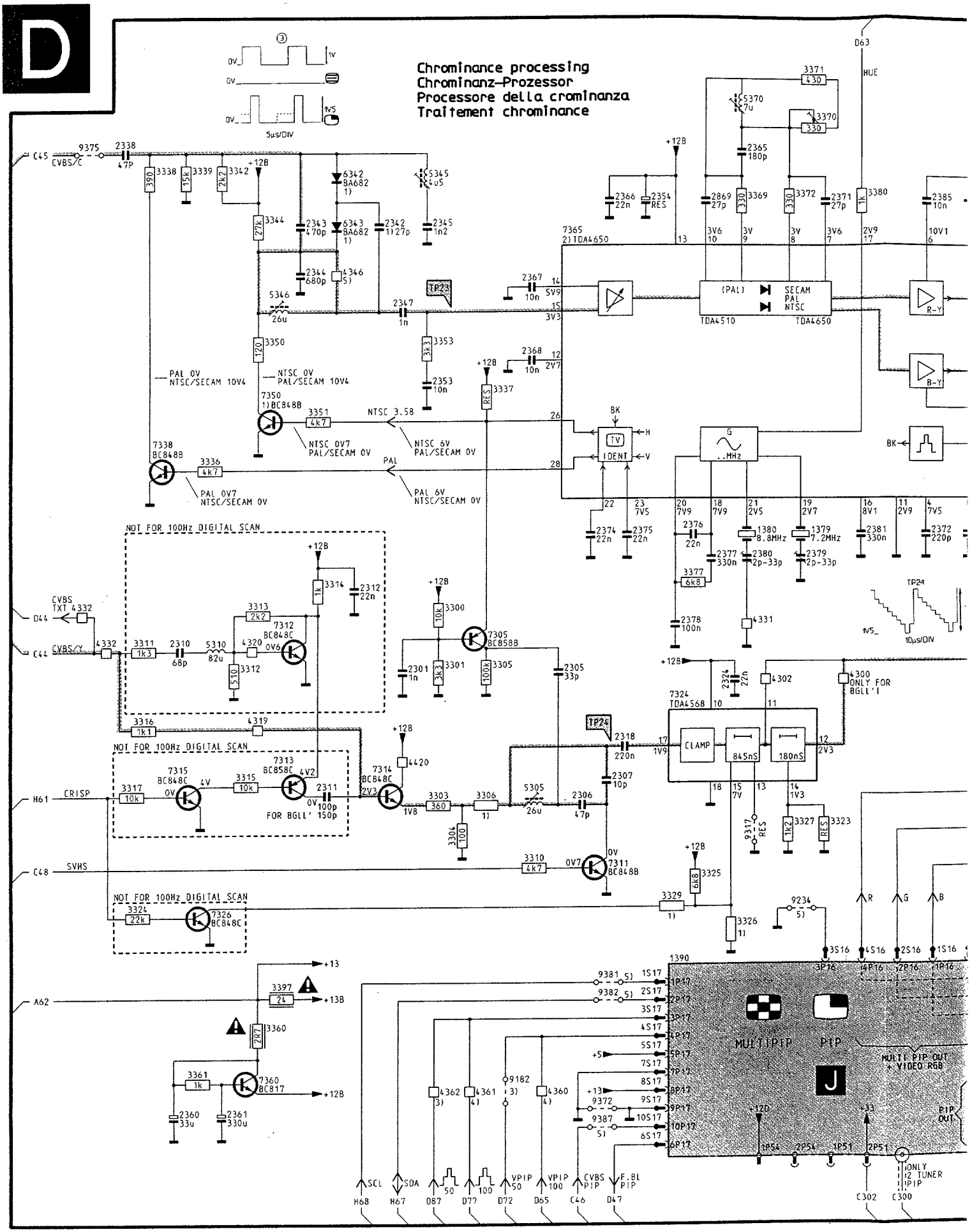
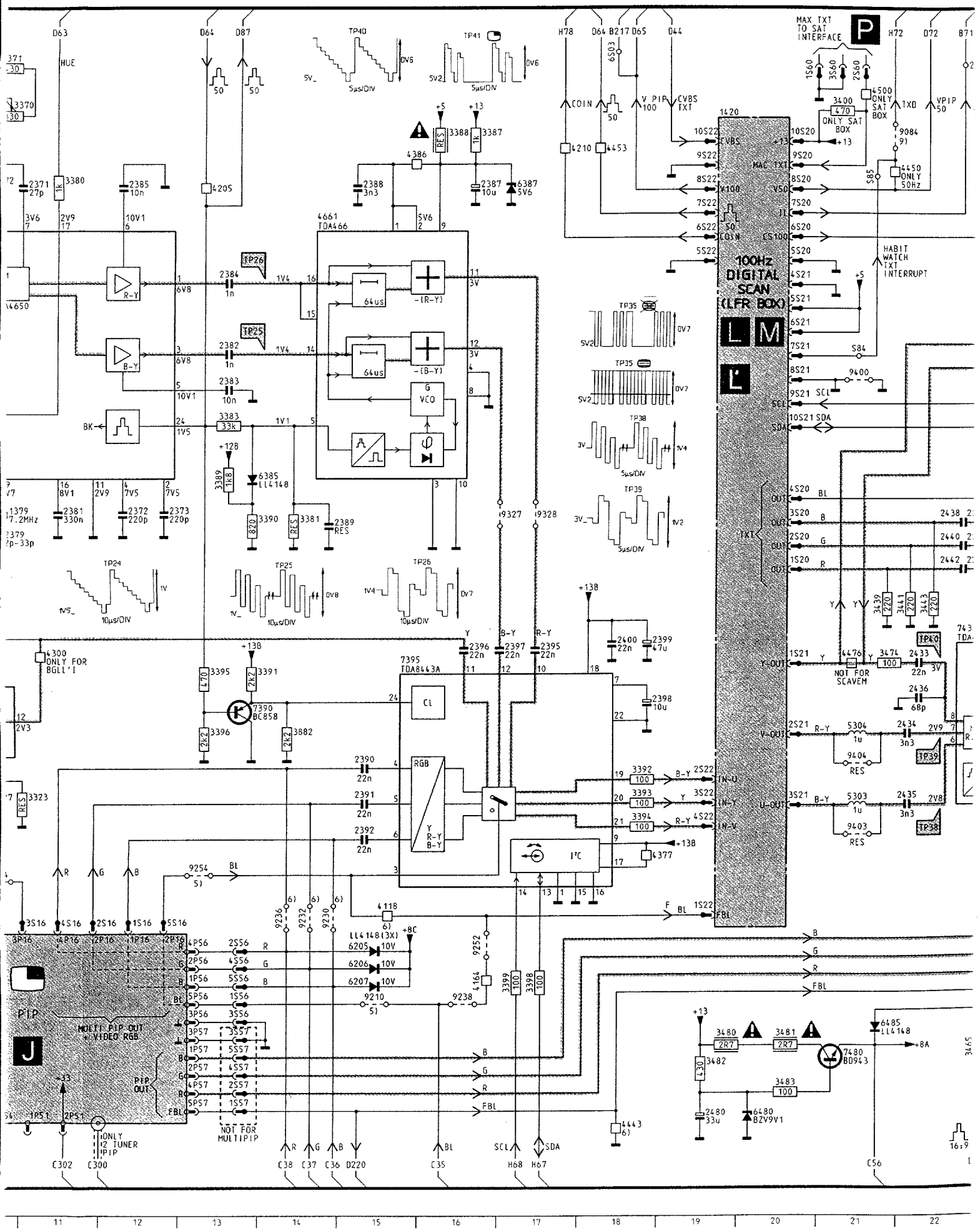
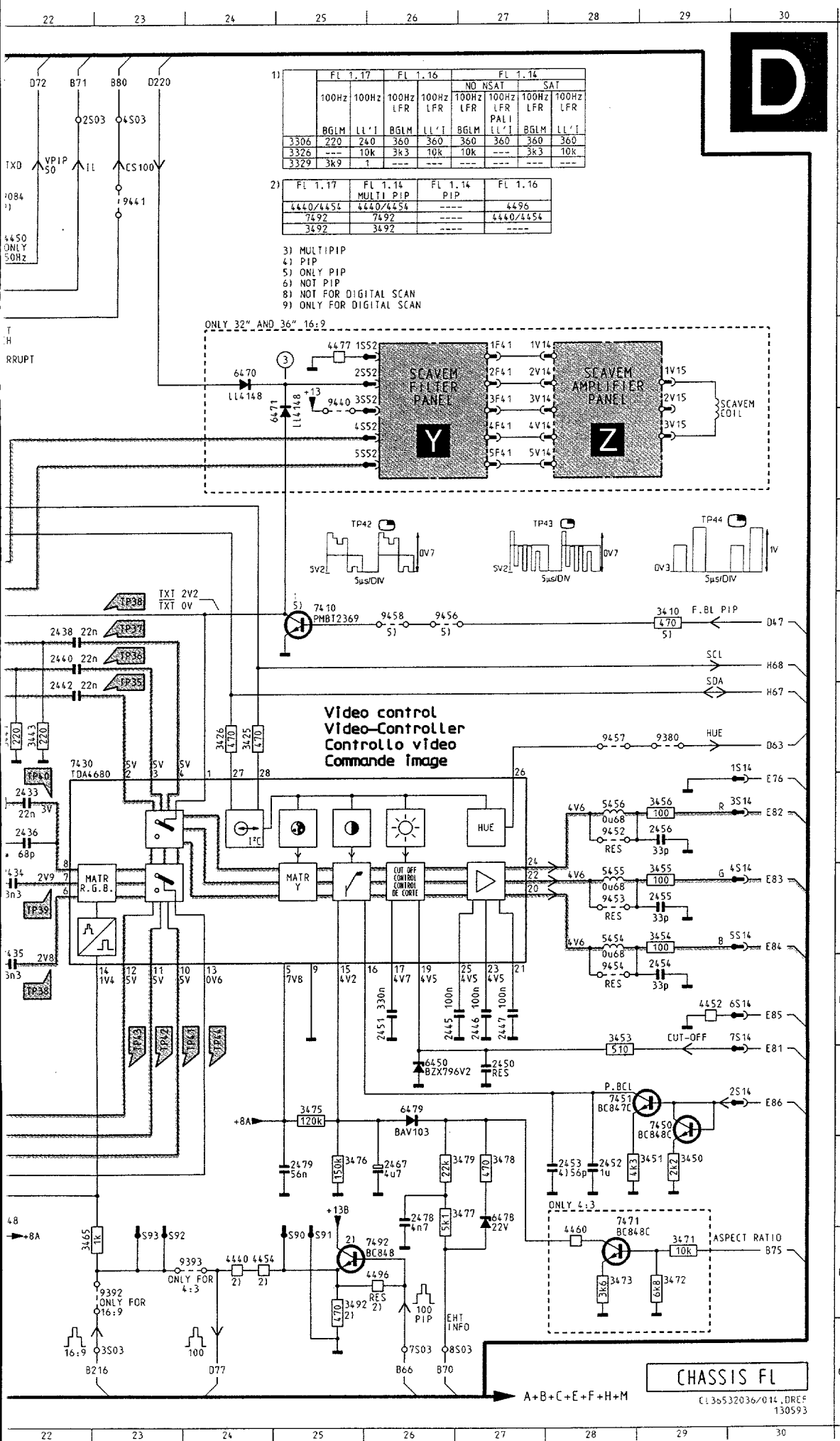
D

Chrominance processing
Chrominanz-Prozessor
Processore della crominanza
Traitement chrominance



Traitement vidéo





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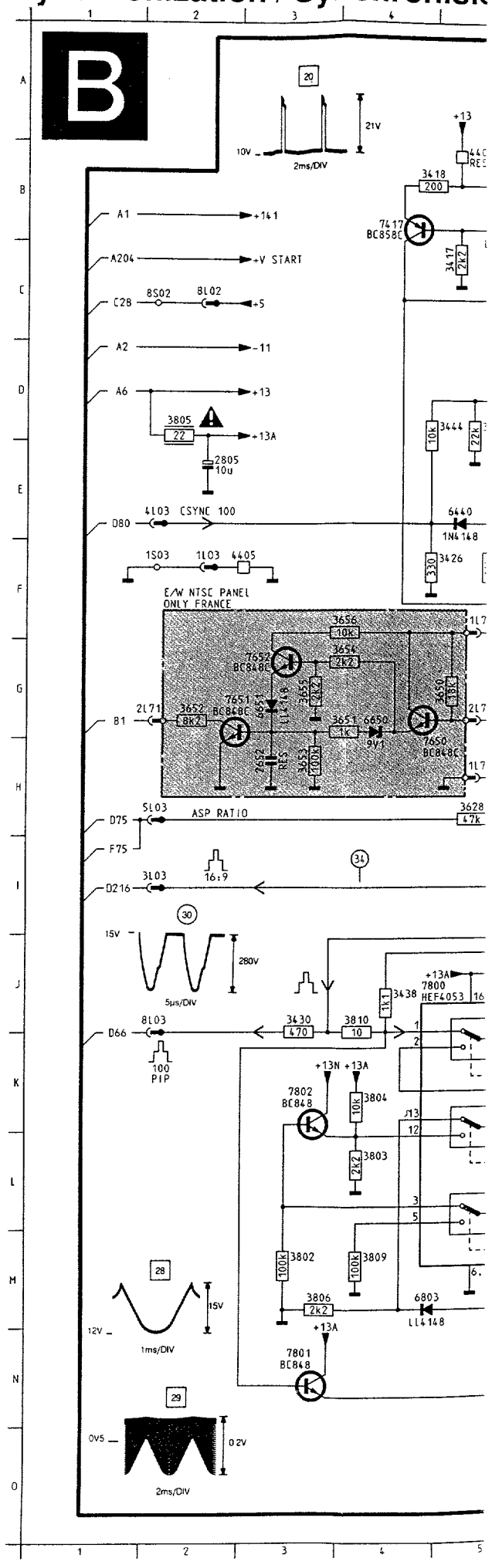
Synchronization / Synchronisie



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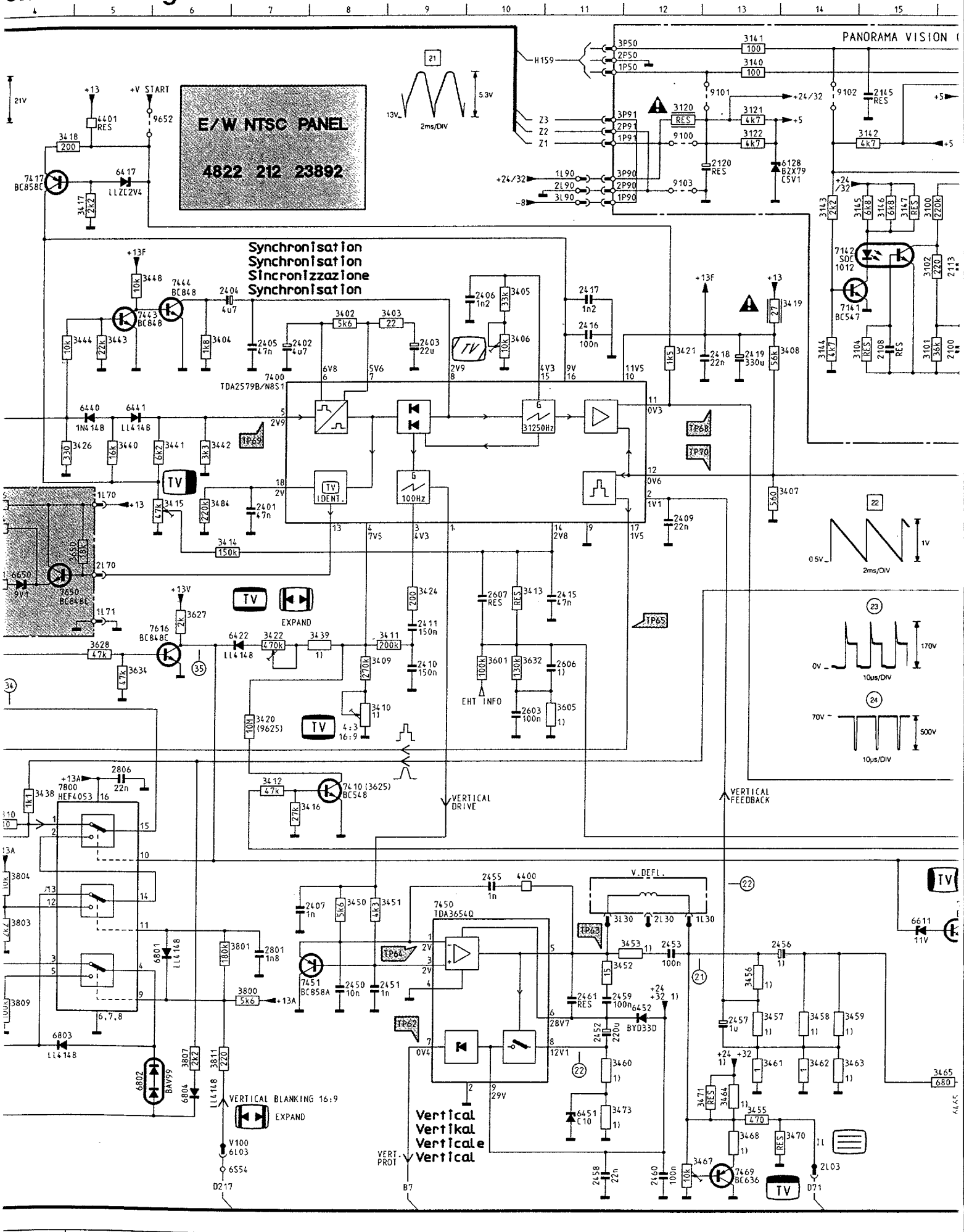
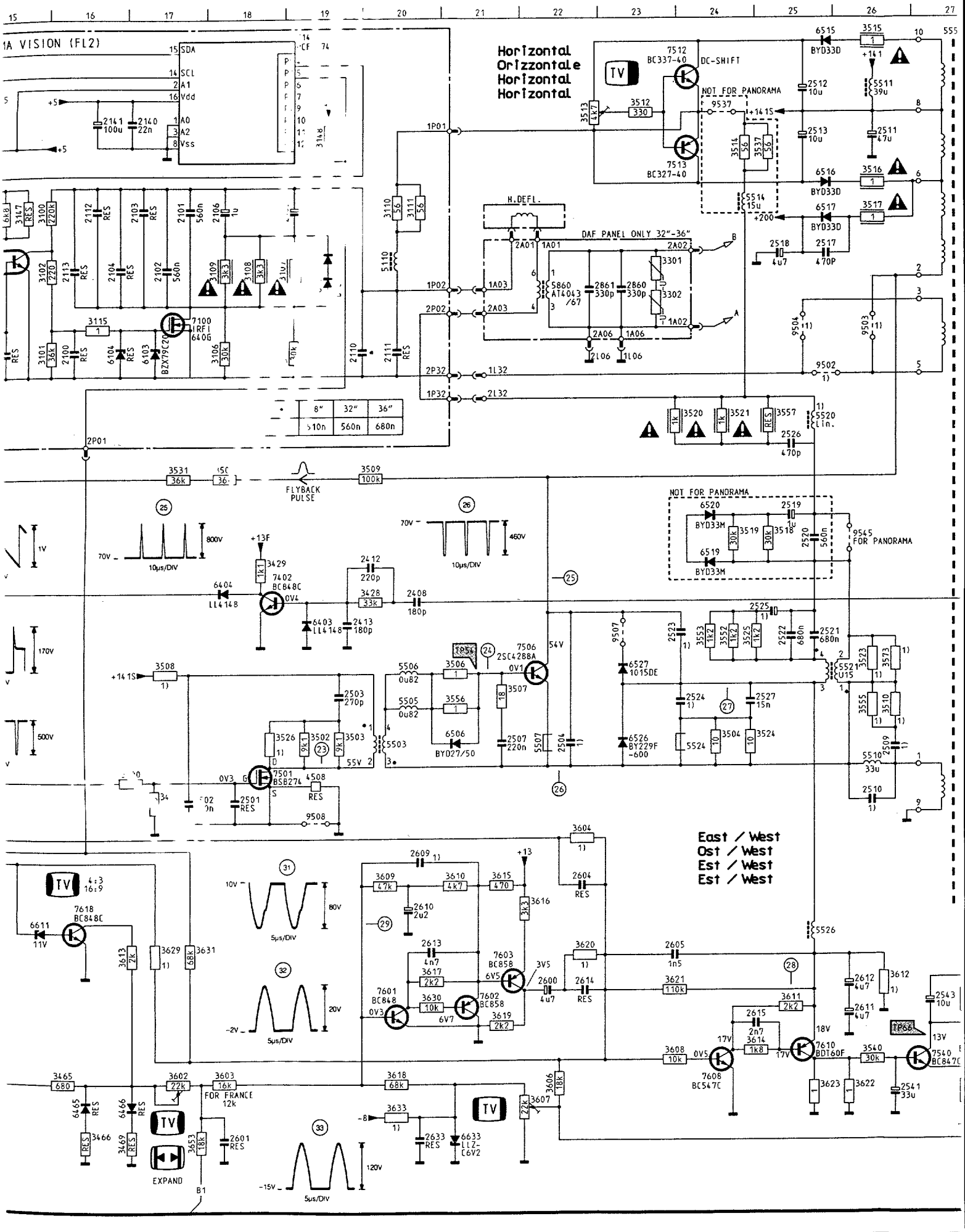
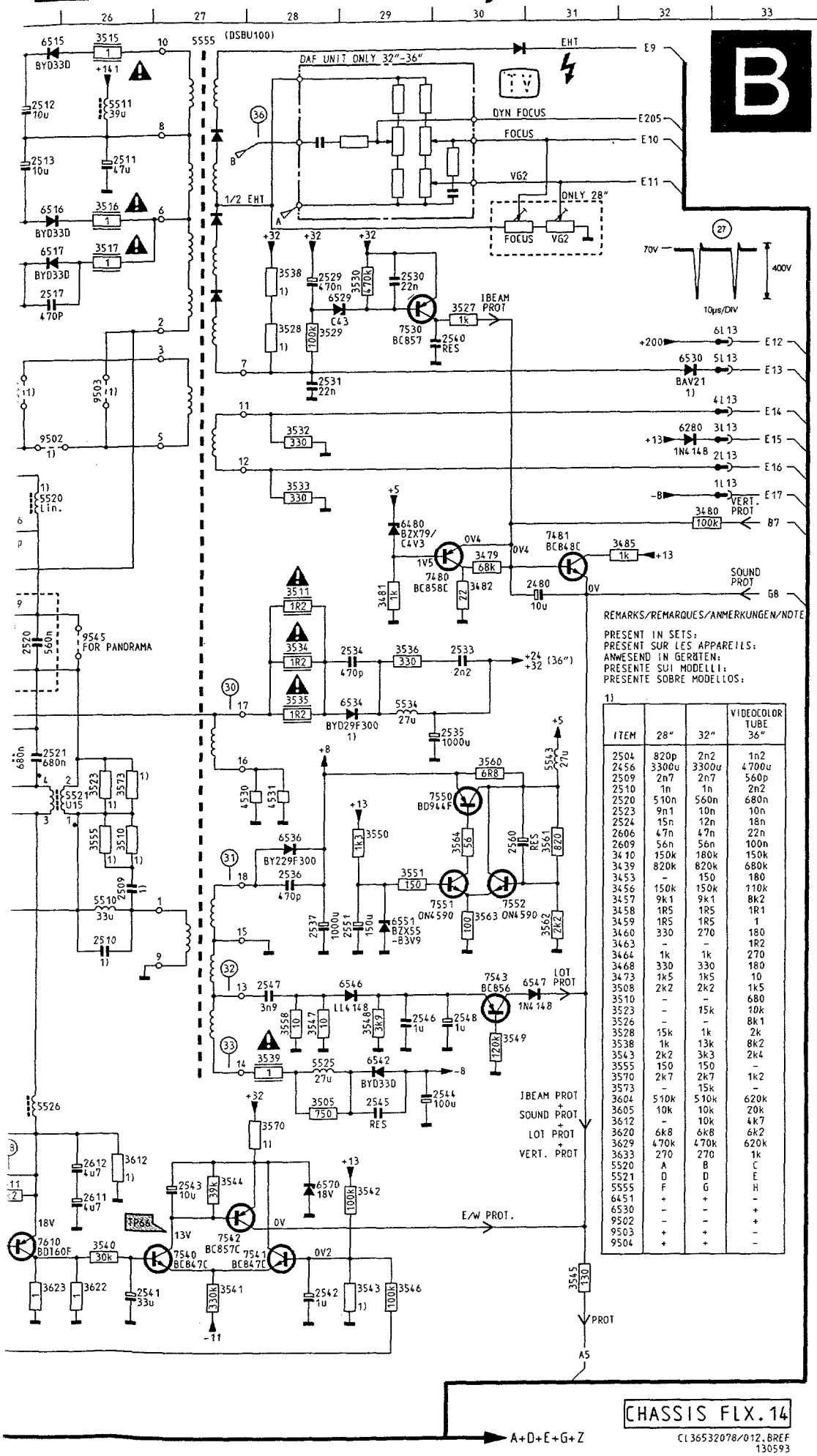



Horizontal
Orizzontale
Horizontal
Horizontal
DC-SHIFT
NOT FOR PANORAMA
H.DEFL.
DAF PANEL ONLY 32"-36"
FLYBACK PULSE
FOR PANORAMA
East / West
Ost / West
Est / West
Est / West
EXPAND
FOR FRANCE 12k

Synchronisation



ITEM	28"	32"	VIDEOCOLOR TUBE 36"
2504	820p	2n2	1n2
2456	3300u	3300u	4700u
2509	2n7	2n7	560p
2510	1n	1n	2n2
2520	510n	560n	680n
2523	9n1	10n	10n
2524	15n	12n	18n
2606	47n	47n	22n
2609	56n	56n	100n
3410	150k	180k	150k
3439	820k	820k	680k
3453	-	150	180
3456	150k	150k	110k
3457	9k1	9k1	8k2
3458	1R5	1R5	1R1
3459	1R5	1R5	1
3460	330	270	180
3463	-	-	1R2
3464	1k	1k	270
3468	330	330	180
3473	1k5	1k5	10
3508	2k2	2k2	1k5
3510	-	-	680
3523	-	15k	10k
3526	-	-	8k1
3528	15k	1k	2k
3538	1k	13k	8k2
3543	2k2	3k3	2k4
3555	150	150	-
3570	2k7	2k7	1k2
3573	-	15k	-
3604	510k	510k	620k
3605	10k	10k	20k
3612	-	10k	4k7
3620	6k8	6k8	6k2
3629	470k	470k	620k
3633	270	270	1k
5520	A	B	C
5521	D	D	E
5555	F	G	H
6451	+	+	-
6530	-	-	+
9502	-	-	+
9503	+	+	-
9504	+	+	-

	ON45	J30	3108	C18	3536	G29	6452	M12
	DN45	J30	3109	C18	3537	B25	6465	N16
	2100	D16	3110	C20	3538	C28	6466	N16
	2101	C17	3111	C20	3539	K28	6480	F29
A	2102	C17	3115	D16	3540	M26	6506	I21
	2103	C17	3121	B13	3541	N27	6515	A25
	2104	C16	3122	B13	3542	M29	6516	B25
	2105	C19	3140	A13	3543	N29	6517	C25
	2106	C18	3141	A13	3544	M27	6519	G24
	2108	D15	3142	B15	3545	N31	6520	F24
	2110	D19	3143	C14	3546	N29	6526	I23
	2111	D20	3144	D14	3547	K28	6527	I23
B	2112	C16	3145	C15	3548	K29	6529	C29
	2113	C16	3146	C15	3549	K30	6530	D32
	2120	B13	3147	C15	3550	I29	6534	H29
	2140	B17	3148	B19	3551	I29	6536	I28
	2141	B16	3301	C23	3552	H24	6542	K29
	2145	A15	3302	D23	3553	H24	6546	K29
	2401	G 7	3402	D 8	3555	I26	6547	K31
	2402	D 7	3403	D 9	3556	I21	6551	J29
C	2403	D 9	3404	D 6	3557	E25	6570	M28
	2404	D 7	3405	D10	3558	K28	6611	L15
	2405	D 7	3406	D10	3560	H30	6633	N21
	2406	D10	3407	F14	3561	I31	6650	G 4
	2407	L 8	3408	D14	3562	J31	6651	G 3
	2408	H20	3409	H 8	3563	J30	6801	L 6
	2409	G12	3410	I 8	3564	I30	6802	N 5
D	2410	I 9	3411	H 9	3570	L28	6803	M 4
	2411	H 9	3412	J 7	3573	H26	6804	N 6
	2412	G20	3413	G10	3601	H10	7100	D17
	2413	H19	3414	G 7	3602	N17	7140	A19
	2415	H11	3415	F 6	3603	N18	7141	D15
	2416	D11	3416	J 7	3604	K22	7142	C14
	2417	D11	3417	C 5	3605	I11	7400	E 7
	2418	E13	3418	B 4	3606	N22	7402	G18
E	2419	E13	3419	D14	3607	N22	7410	J 8
	2450	M 8	3420	I 7	3608	M23	7417	B 4
	2451	M 8	3421	D12	3609	K20	7443	D 5
	2452	M11	3422	H 7	3610	K21	7444	D 6
	2453	L12	3424	G 9	3611	M25	7450	L 9
	2455	K10	3426	F 5	3612	I26	7451	L 8
	2456	L14	3428	H20	3613	L16	7469	O13
	2457	M13	3429	G18	3614	M25	7480	F30
F	2458	O11	3430	J 3	3615	K21	7481	F31
	2459	M11	3438	J 4	3616	K22	7501	J18
	2460	O12	3439	H 8	3617	L20	7506	H22
	2461	M11	3440	F 5	3618	N20	7512	A24
	2480	F31	3441	F 6	3619	M21	7513	B24
	2501	J18	3442	F 6	3620	L22	7530	D29
	2502	J17	3443	D 5	3621	M23	7540	M27
G	2503	I19	3444	D 5	3622	N26	7541	M28
	2504	I22	3448	D 5	3623	N25	7542	M27
	2507	I21	3450	K 8	3625	J 8	7543	K30
	2509	J26	3451	K 9	3627	H 6	7550	I30
	2510	J26	3452	L11	3628	H 5	7601	M20
	2511	B26	3453	L12	3629	L17	7602	M21
	2512	A25	3454	J17	3630	M20	7603	L21
H	2513	B25	3455	N13	3631	L17	7608	N24
	2517	C25	3456	L13	3632	H10	7610	M25
	2518	C25	3457	M13	3633	N20	7616	H 6
	2519	G25	3458	M14	3634	H 5	7618	L16
	2520	G25	3459	M14	3650	G 5	7650	G 4
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	2522	H25	3461	M13	3652	G 2	7652	G 3
	2523	H24	3462	M14	3653	H 3	7800	J 4
I	2524	I24	3463	M14	3653	O17	7801	N 3
	2525	H25	3464	N13	3654	G 4	7802	K 3
	2526	F25	3465	N16	3655	G 3	9100	B12
	2527	I25	3466	N16	3656	F 4	9101	A13
	2529	C28	3467	O12	3800	M 7	9102	A14
	2530	C29	3468	N13	3801	L 7	9103	B12
	2531	D28	3469	O16	3802	M 3	9502	E25
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	2534	G29	3471	N13	3804	K 4	9504	D25
	2535	H30	3473	N11	3805	D 2	9507	H23
	2536	I28	3479	F30	3806	M 3	9508	J19
	2537	J28	3480	F32	3807	M 6	9537	A24
	2540	D30	3481	F29	3809	M 4	9545	G26
	2541	N26	3482	F30	3810	J 4	9625	I 7
	2542	N28	3484	F 6	3811	M 6	9652	B 6
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	2546	K29	3502	I19	4508	J19		
	2547	K28	3503	J19	4530	I28		
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	2551	J29	3505	L28	5110	C20		
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	2604	K22	3510	I26	5510	J26		
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	2606	I11	3512	A23	5514	C24		
	2607	H10	3513	B22	5520	E25		
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	2611	M26	3516	B26	5525	K28		
	2612	M26	3517	C26	5526	L25		
	2613	L20	3518	G25	5534	H29		
	2614	M22	3519	G24	5543	H31		
	2615	M25	3520	E24	5555	A27		
	2633	N20	3521	E24	5860	D22		
N	2652	H 3	3523	H26	6100	C19		
	2801	L 7	3524	I25	6101	D19		
	2805	E 2	3525	H24	6103	D17		
	2806	J 5	3526	I18	6104	D16		
	2860	D23	3527	C30	6128	B14		
	2861	D22	3528	C28	6280	E32		
	3100	C15	3529	D28	6403	H19		
	3101	D15	3530	C29	6404	G18		
O	3102	C15	3531	F17	6417	B 5		
	3104	D15	3532	E28	6422	H 7		
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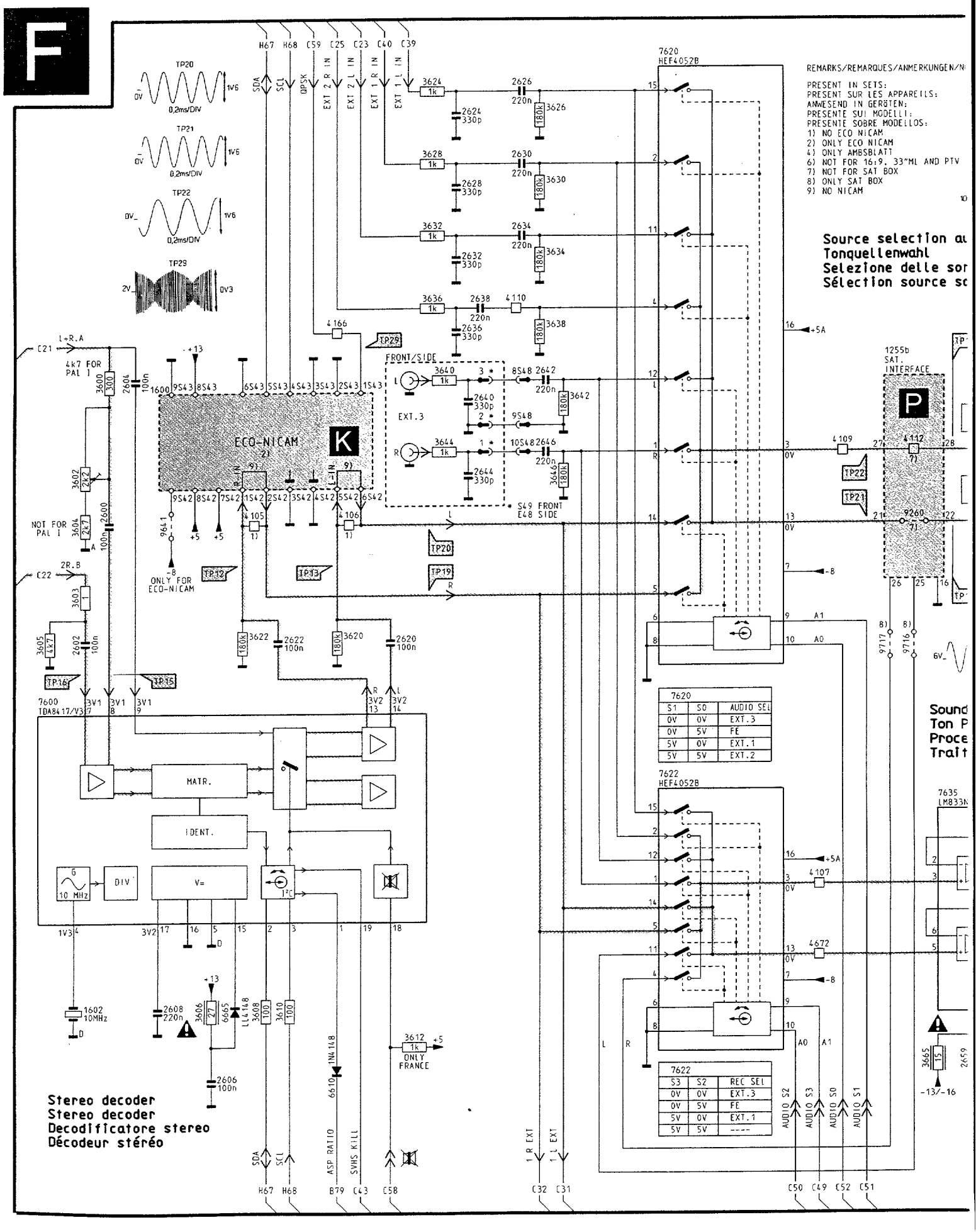
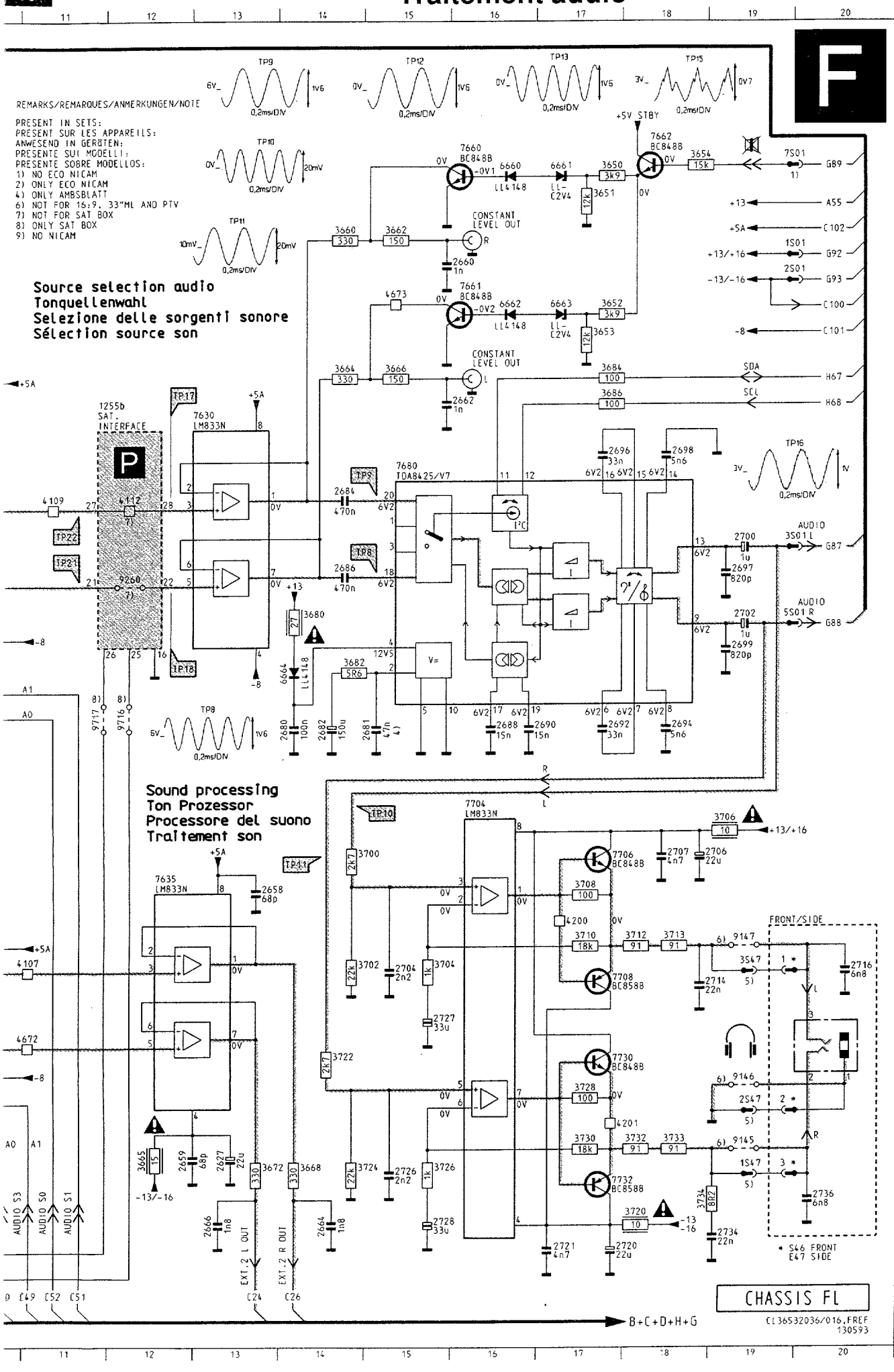


7620		
S1	S0	AUDIO SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	EXT.2

7622		
S3	S2	REC SEL
0V	0V	EXT.3
0V	5V	FE
5V	0V	EXT.1
5V	5V	----

Traitement audio



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	1600	E 2	4112	F12
	1602	M 1	4166	D 5
	2600	G 2	4200	K17
A	2602	H 1	4201	M17
	2604	E 2	4672	L11
	2606	N 3	4673	C15
	2608	M 2	6610	N 5
	2620	H 5	6660	B16
	2622	H 4	6661	B17
	2624	B 6	6662	D16
	2626	A 7	6663	D17
B	2627	M13	6664	H14
	2628	C 6	6665	M 3
	2630	B 7	7600	I 1
	2632	D 6	7620	A 9
	2634	C 7	7622	J 9
	2636	D 6	7630	E12
	2638	D 6	7635	J12
	2640	E 6	7660	B16
C	2642	E 7	7661	C16
	2644	F 6	7662	B18
	2646	F 7	7680	E15
	2658	J13	7704	I16
	2659	M12	7706	J17
	2660	C16	7708	K17
	2662	E16	7730	L17
D	2664	N14	7732	N17
	2666	N13	9145	M19
	2680	H14	9146	M19
	2681	H15	9147	K19
	2682	H14	9260	G12
	2684	F14	9641	G 2
	2686	G14	9716	H12
	2688	H16	9717	H11
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	2692	H17		
	2694	H18		
	2696	E17		
	2697	G19		
	2698	E18		
	2699	H19		
F	2700	F19		
	2702	G19		
	2704	K15		
	2706	J18		
	2707	J18		
	2714	K18		
	2716	K20		
	2720	O17		
G	2721	O17		
	2726	N15		
	2727	L15		
	2728	N15		
	2734	N19		
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	3604	G 1		
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	3608	M 4		
	3610	M 4		
	3612	M 6		
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	3622	H 3		
	3624	A 6		
	3626	B 7		
	3628	B 6		
	3630	C 7		
	3632	C 6		
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J	3636	D 6		
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	3653	D17		
	3654	B18		
	3660	C14		
	3662	C15		
	3664	D14		
L	3665	M12		
	3666	O15		
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	3672	N13		
	3680	G14		
	3682	H14		
	3684	D17		
	3686	E17		
M	3700	J14		
	3702	K14		
	3704	K15		
	3706	J19		
	3708	J17		
	3710	K17		
	3712	K18		
	3713	K18		
N	3720	N18		
	3722	L14		
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	3726	N15		
	3728	M17		
	3730	M17		
	3732	M18		
	3733	M18		
O	3734	N18		
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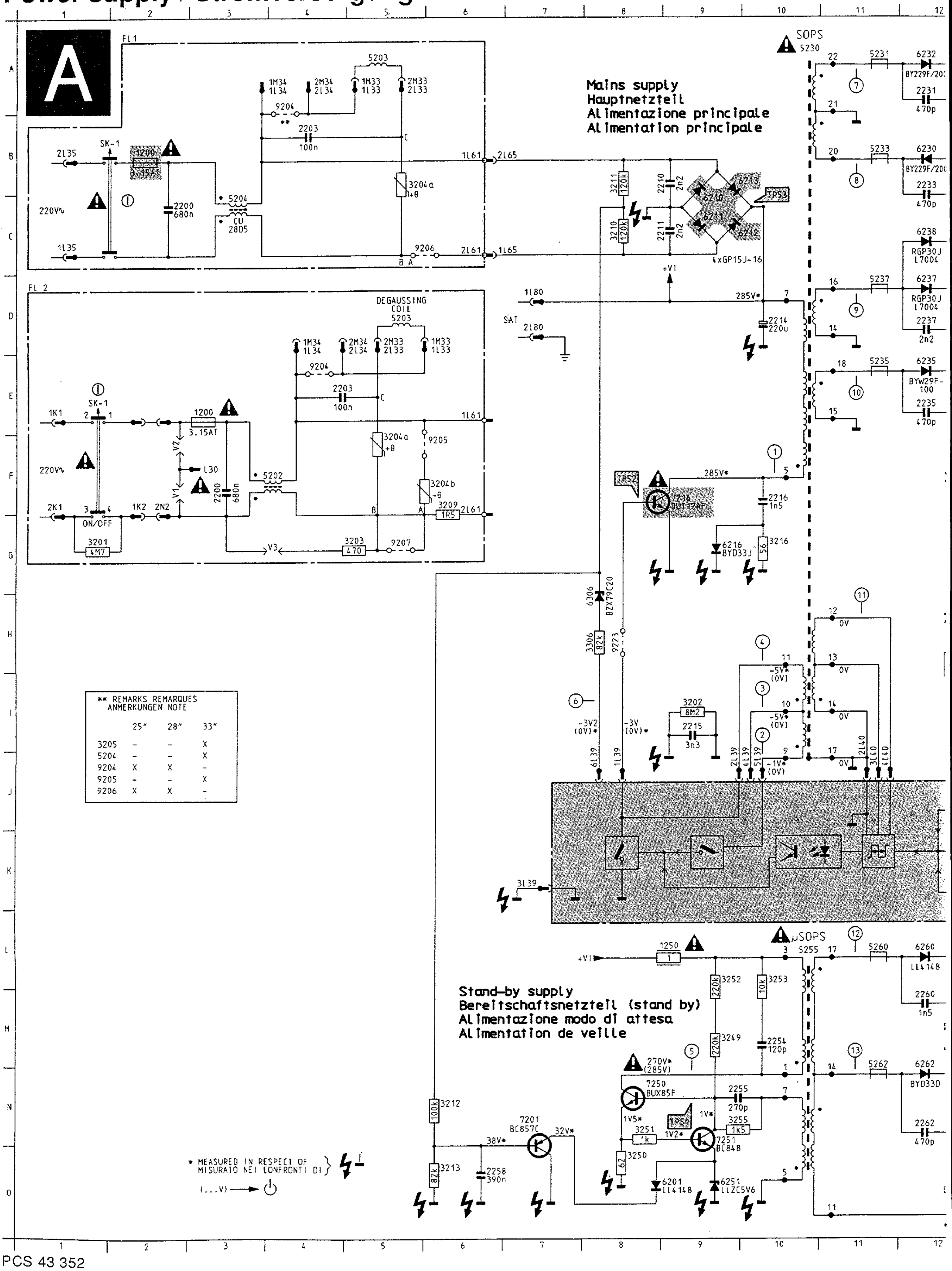
	4109	F11		

Power supply / Stromversorgung / L'alimentation



** REMARKS REMARQUES ANMERKUNGEN NOTE

	25"	28"	33"
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5204	-	-	X
9204	X	X	-
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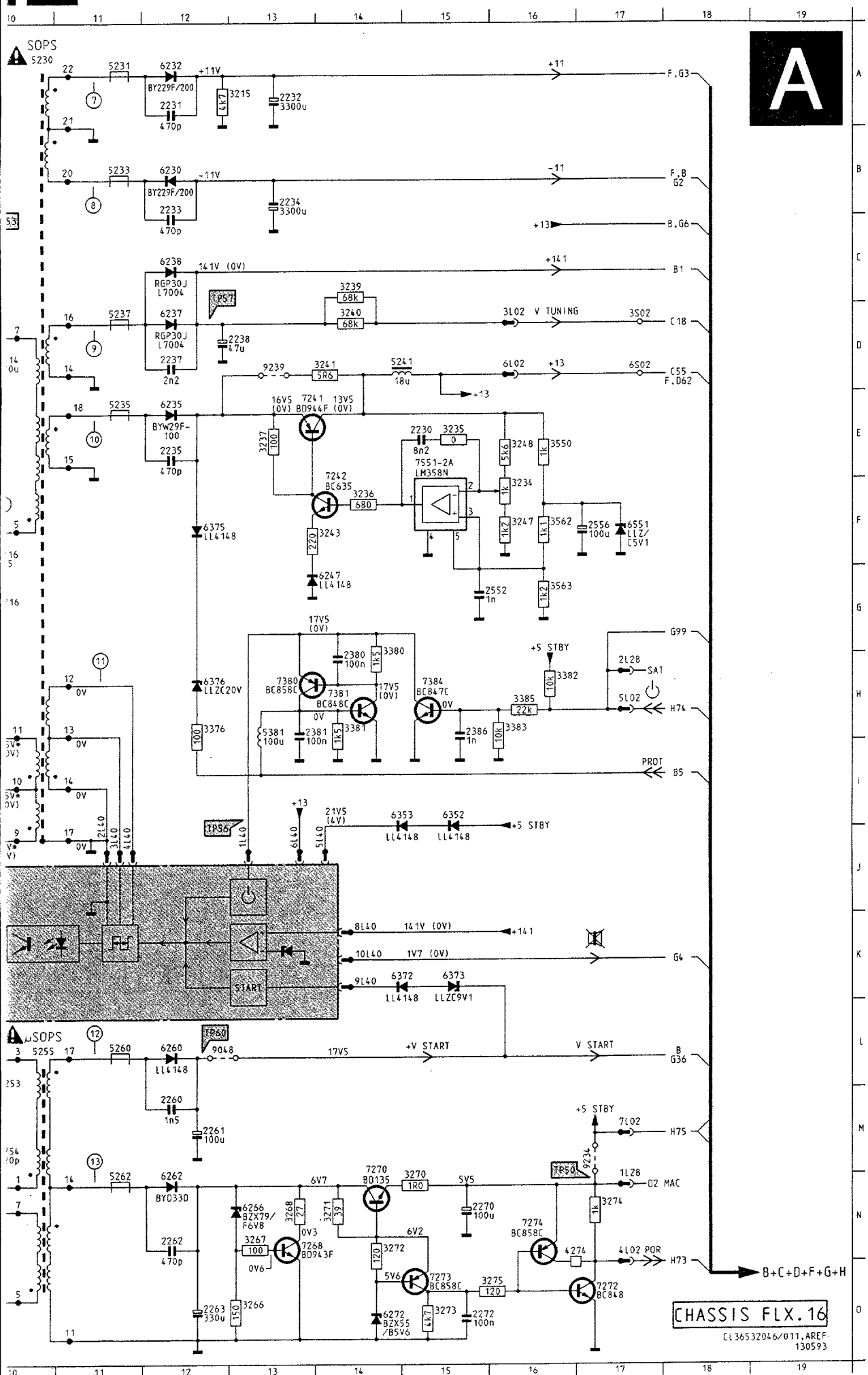

	1200	B 2	6352	I 15
	1200	E 3	6353	I 14
	1250	L 9	6372	K14
	2200	F 3	6373	K15
A	2200	C 2	6375	F12
	2203	E 4	6376	H12
	2203	B 4	6551	F17
	2210	B 9	7201	N 7
	2211	C 9	7216	F 9
	2214	D10	7241	E13
	2215	I 9	7242	F14
	2216	F10	7250	N 8
B	2230	E15	7251	N 9
	2231	A12	7268	N13
	2232	A13	7270	M14
	2233	B12	7272	O17
	2234	B13	7273	O15
	2235	E12	7274	N16
	2237	D12	7380	H13
	2238	D12	7381	H14
C	2254	M10	7384	H15
	2255	N 9	7551	E15
	2258	O 6	9048	L12
	2260	M12	9204	A 4
	2261	M12	9204	E 4
	2262	N12	9205	F 6
	2263	O12	9206	C 5
D	2270	N15	9207	G 5
	2272	O15	9223	H 8
	2380	H14	9234	M17
	2381	H13	9239	D13
	2386	H15		
	2552	G15		
	2556	F17		
	3201	G 1		
E	3202	I 9		
	3203	G 5		
	3204	B 5		
	3204	E 5		
	3204	F 6		
	3209	F 6		
	3210	C 8		
F	3211	B 8		
	3212	N 6		
	3213	O 6		
	3215	A13		
	3216	G10		
	3234	E16		
	3235	E15		
	3236	F14		
G	3237	E13		
	3239	C14		
	3240	D14		
	3241	D14		
	3243	F14		
	3247	F16		
	3248	E16		
H	3249	M 9		
	3250	O 8		
	3251	N 8		
	3252	L 9		
	3253	L10		
	3255	N 9		
	3266	O13		
	3267	N13		
I	3268	N13		
	3270	N15		
	3271	N14		
	3272	N14		
	3273	O15		
	3274	N17		
	3275	O16		
	3306	H 8		
J	3376	H12		
	3380	G14		
	3381	H14		
	3382	H16		
	3383	H16		
	3385	H16		
	3550	E16		
K	3562	F16		
	3563	G16		
	4L02	N17		
	4274	N16		
	5202	F 4		
	5203	A 5		
	5203	D 5		
	5204	C 3		
L	5230	A10		
	5231	A11		
	5233	B11		
	5235	E11		
	5237	D11		
	5241	D14		
	5255	L10		
M	5260	L11		
	5262	N11		
	5381	H13		
	6201	O 9		
	6210	C 9		
	6211	C 9		
	6212	C 9		
	6213	B 9		
N	6216	G 9		
	6230	B12		
	6232	A12		
	6235	E12		
	6237	D12		
	6238	C12		
	6247	G14		
	6251	O 9		
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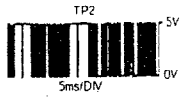
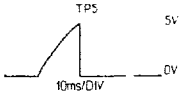
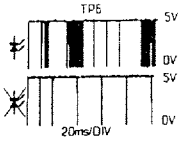
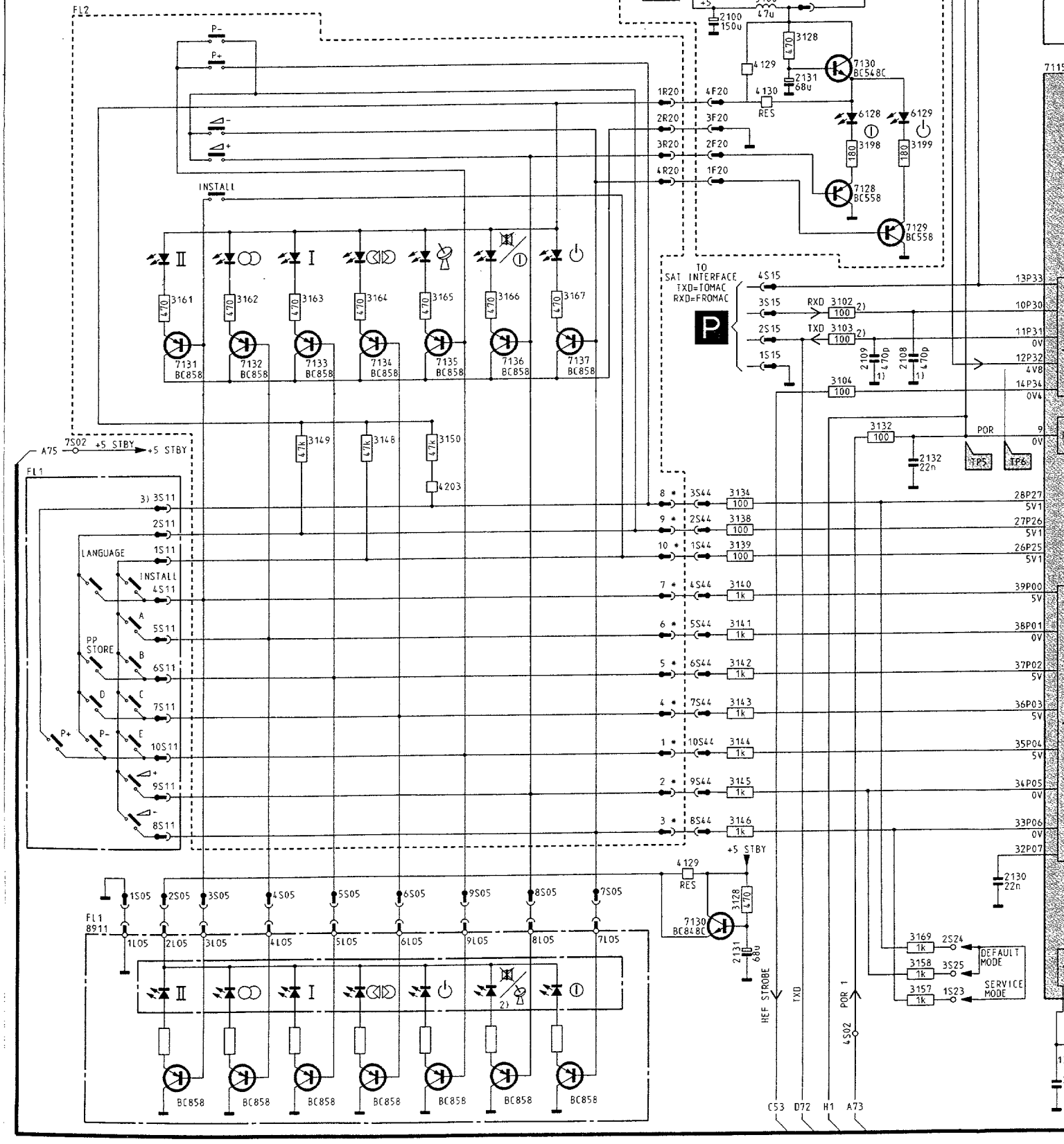
	6262	N12		
	6266	N13		
	6272	O14		
	6306	H 8		

Controls / Bedienung / Commande

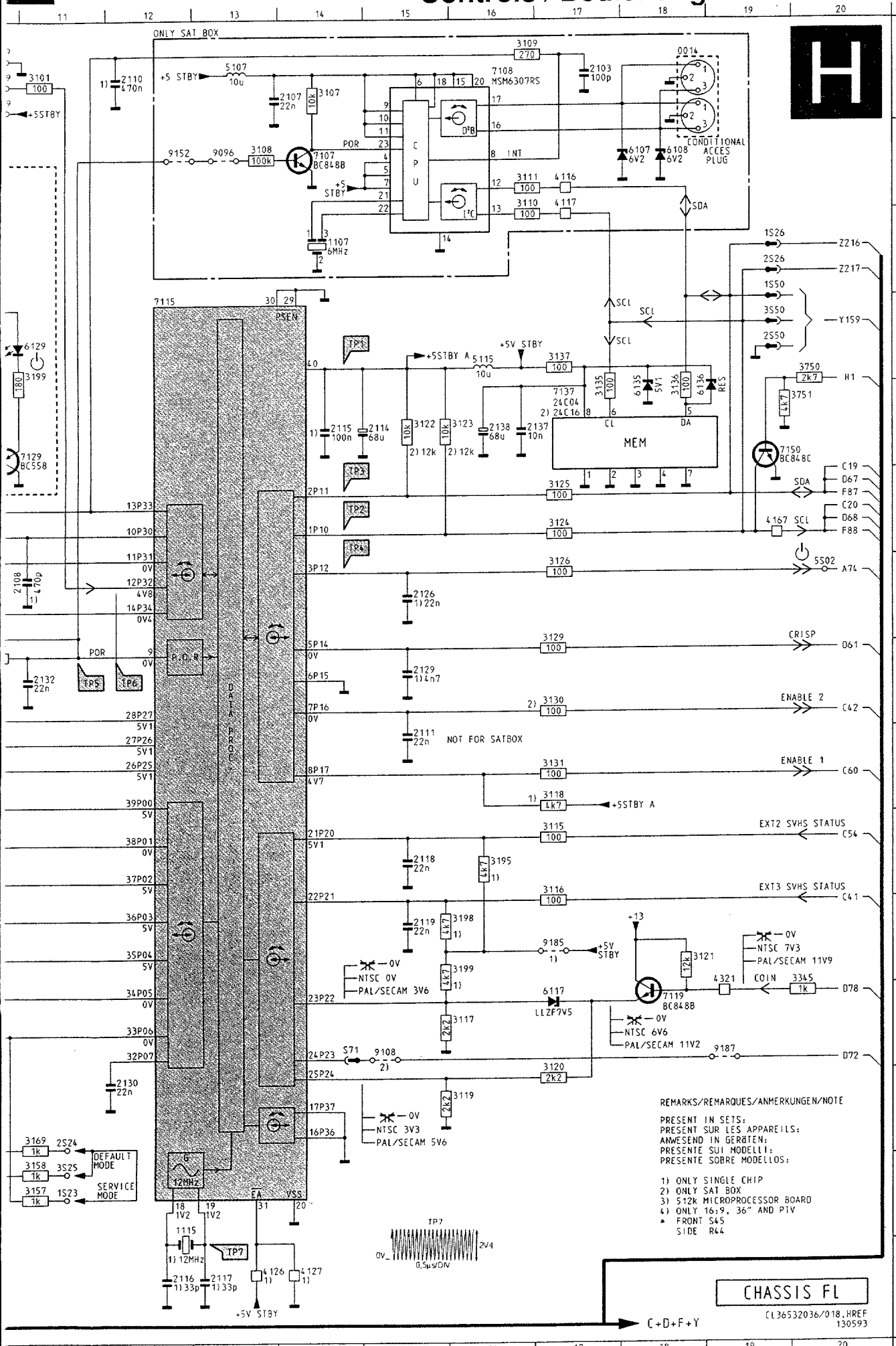








Controls / Bedienung / Commande



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1001	A 6	7129	E10
1100	A 8	7130	M 8
1100	B 8	7130	D10
1107	C14	7131	G 2
1115	N12	7132	G 3
2100	B 8	7133	G 4
2100	C 8	7134	G 4
2103	A17	7135	G 5
2107	A14	7136	G 6
2108	G11	7137	G 7
2109	G10	7137	E17
2110	A12	7150	E19
2111	I15	8911	M 1
2114	E15	9096	B13
2115	E14	9108	L15
2116	O12	9152	B12
2117	O13	9185	K17
2118	J15	9187	L19
2119	K15		
2126	G15		
2129	H15		
2130	M12		
2131	M 9		
2131	D 9		
2132	H11		
2137	E16		
2138	E16		
3100	A 9		
3100	B 9		
3101	A11		
3102	F10		
3103	F10		
3104	G10		
3107	A14		
3108	B13		
3109	A16		
3110	B16		
3111	B16		
3115	J17		
3116	J17		
3117	L16		
3118	I17		
3119	M16		
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3137	D17		
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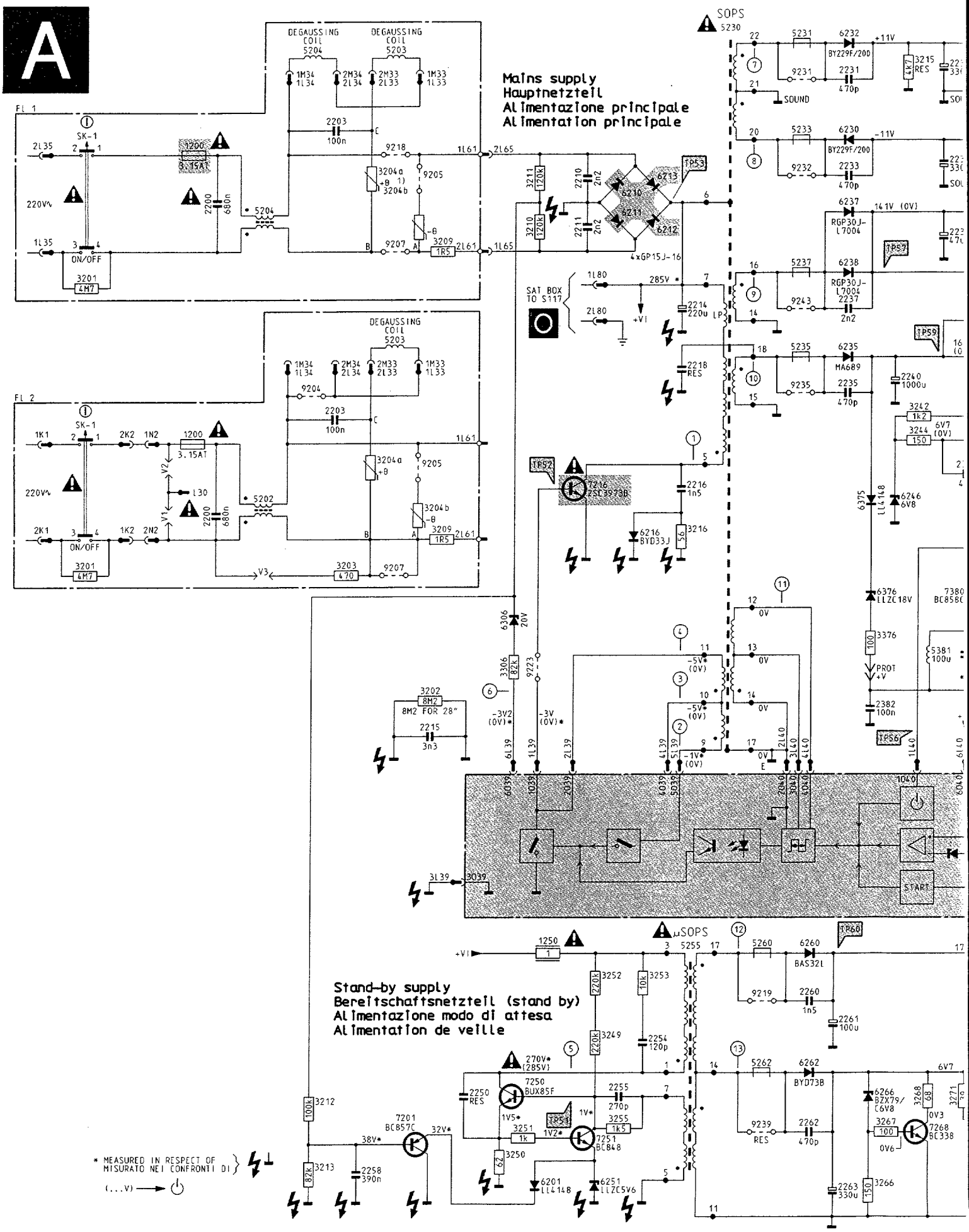
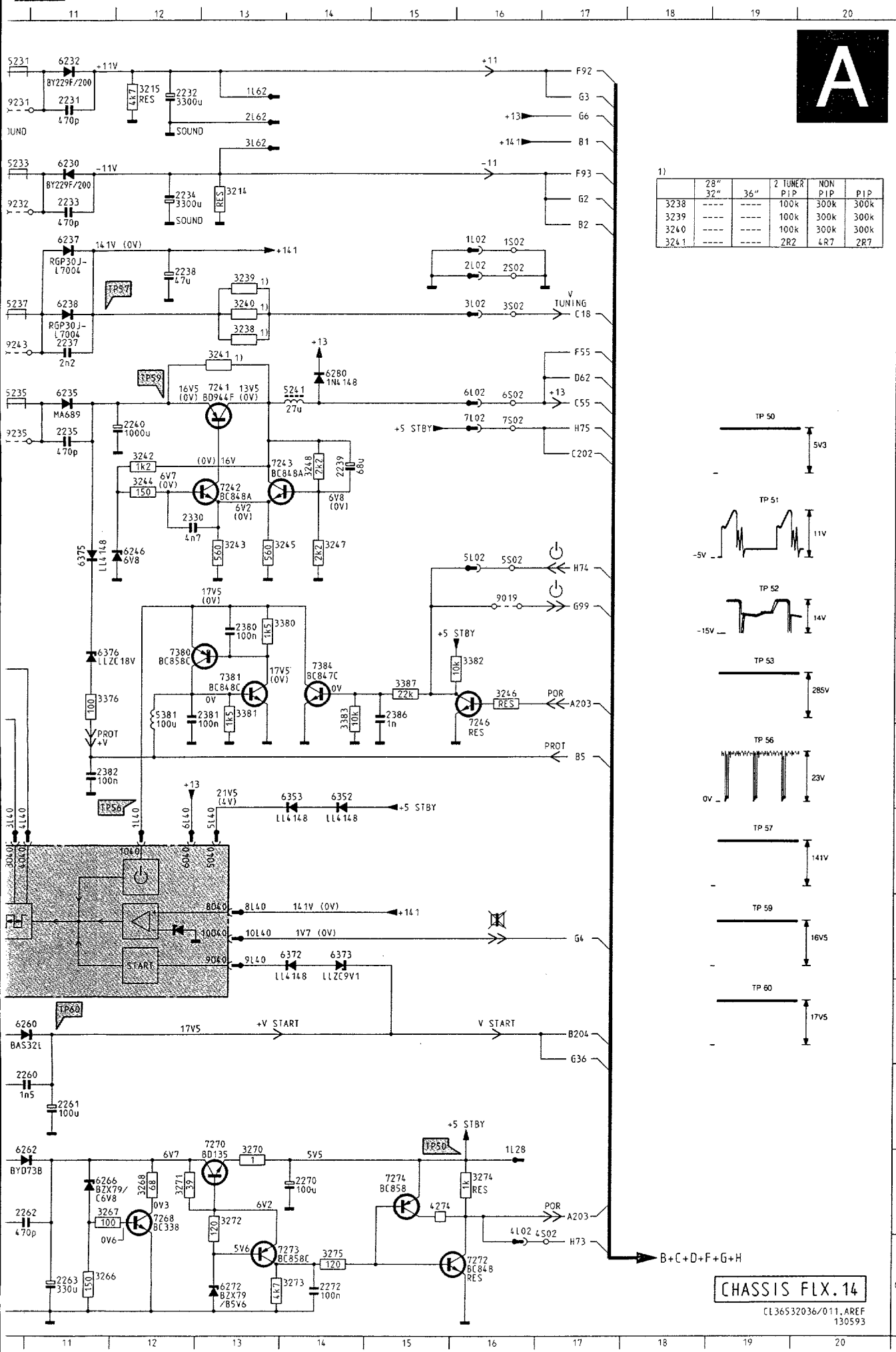
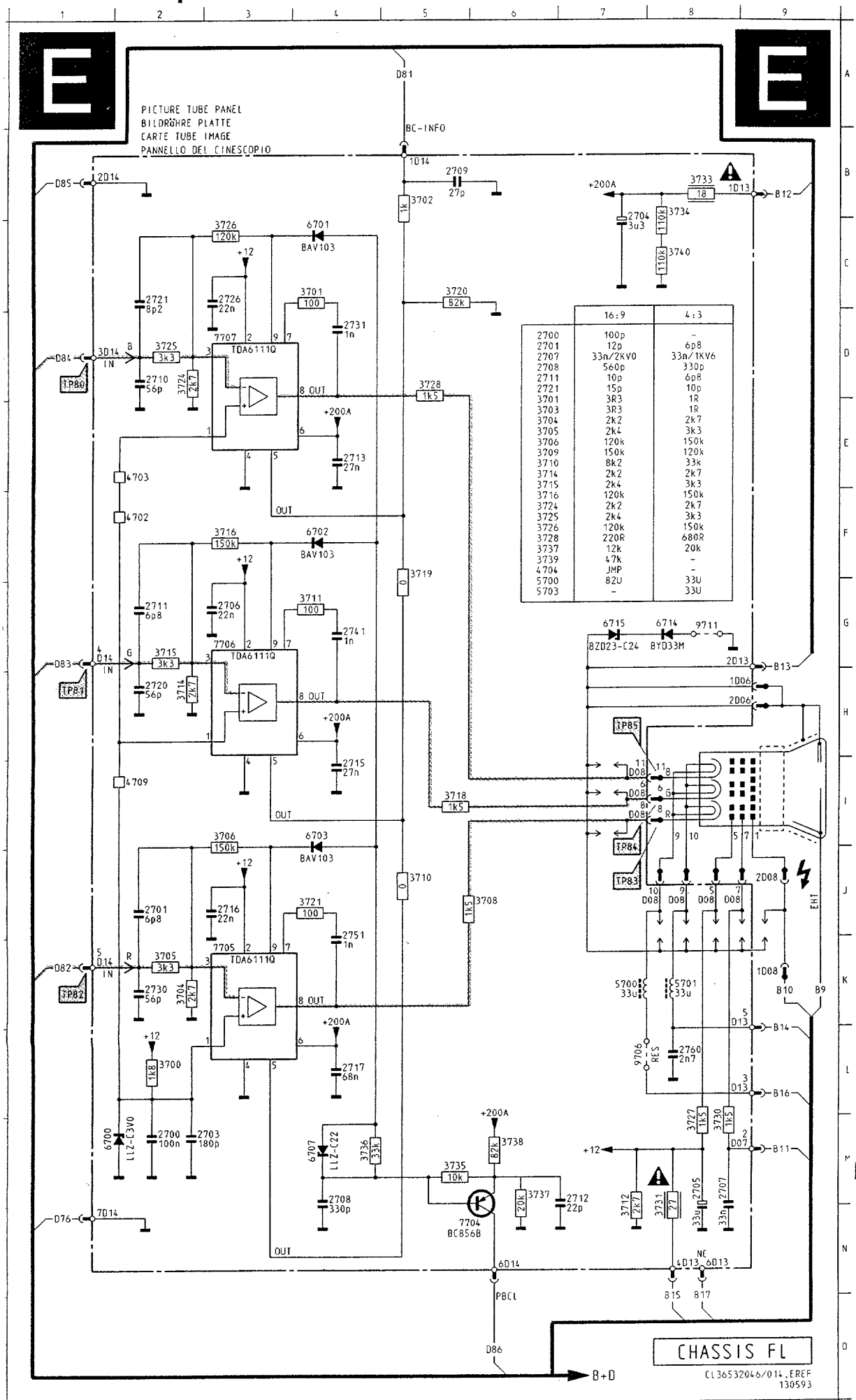
3199	K16		
3345	L20		
3750	D20		
3751	E19		
4116	B17		
4117	B17		
4126	O13		
4127	O14		
4129	L 8		
4129	D 9		
4130	D 9		
4167	F19		
4203	H 5		
4321	L19		
5100	A 9		
5100	C 9		
5107	A13		
5115	D16		
6107	B18		
6108	B18		
6117	L17		
6128	D10		
6129	D11		
6135	E18		
6136	E18		
7107	B14		
7108	A16		
7115	D12		
7119	L18		


A
Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille
SOPS
µSOPS
DEGAUSSING COIL 5204
DEGAUSSING COIL 5203
FL 1
FL 2
SK-1
ON/OFF
220V~
SAT BOX TO S117
4xGP15J-16
BY229F/200
RGP30J-L7004
MA689
BUX85F
BC857C
BC848
BC338
BAS32L
BYD73B
BZX79/C6V8
LL4148
LLZC5V6
LLZC18V
BYD33J
ZSC3973B
8M2 FOR 28"
PROT +V
START
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI
(...V) → ⏻



1200	B 2	6237	C11
1200	F 2	6238	D11
2200	C 2	6246	G12
2200	G 2	6251	O 8
2202	B 3	6260	L11
2203	B 4	6262	N11
2203	E 4	6266	N11
2210	C 8	6272	O13
2211	C 8	6280	D14
2214	D 9	6306	H 7
2215	I 6	6352	I14
2216	F 9	6353	I14
2218	E 9	6372	K14
2231	A11	6373	K14
2232	A12	6375	G11
2233	B11	6376	H11
2234	B12	7201	N 6
2235	E11	7216	F 8
2237	D11	7241	E13
2238	C12	7242	F13
2239	E14	7243	F13
2240	E12	7246	H16
2250	N 6	7250	N 7
2254	M 9	7251	N 8
2255	N 8	7268	N12
2258	O 5	7270	M13
2260	M11	7272	O16
2261	M11	7273	O13
2262	N11	7274	N15
2263	O11	7380	H12
2270	N14	7381	H13
2272	O14	7384	H14
2330	F12	9019	G16
2380	G13	9204	E 4
2381	H12	9205	C 5
2382	I11	9205	F 5
2386	H15	9206	C 5
3201	D 2	9206	G 5
3201	G 2	9207	D 5
3202	I 6	9207	G 5
3203	C 5	9218	B 5
3203	G 4	9219	M10
3204	B 5	9223	I 7
3204	C 5	9231	A10
3204	F 5	9232	B10
3204	F 5	9235	E10
3209	C 5	9239	N10
3209	G 5	9242	B 5
3210	C 7	9242	E 5
3211	C 7	9243	D10
3212	N 4		
3213	O 4		
3214	B13		
3215	A12		
3216	G 9		
3235	L 7		
3238	D13		
3239	C13		
3240	D13		
3241	D13		
3242	E12		
3243	F13		
3244	F12		
3245	F13		
3246	H16		
3247	F14		
3248	E14		
3249	M 8		
3250	O 7		
3251	N 7		
3252	L 8		
3253	L 9		
3255	N 8		
3266	O11		
3267	N11		
3268	N12		
3270	N13		
3271	N12		
3272	N13		
3273	O14		
3274	N16		
3275	O14		
3275	N14		
3275	N16		
3306	I 7		
3376	H11		
3380	G13		
3381	H13		
3382	H16		
3383	H14		
3387	H15		
4274	N15		
5202	G 3		
5203	A 5		
5203	E 5		
5204	C 3		
5204	A 4		
5230	A 9		
5231	A10		
5233	B10		
5235	E10		
5237	D10		
5241	E14		
5255	L 9		
5260	L10		
5262	N10		
5381	H12		
6201	O 7		
6210	C 8		
6211	C 8		
6212	C 9		
6213	C 9		
6216	G 8		
6230	B11		
6232	A11		
6235	E11		

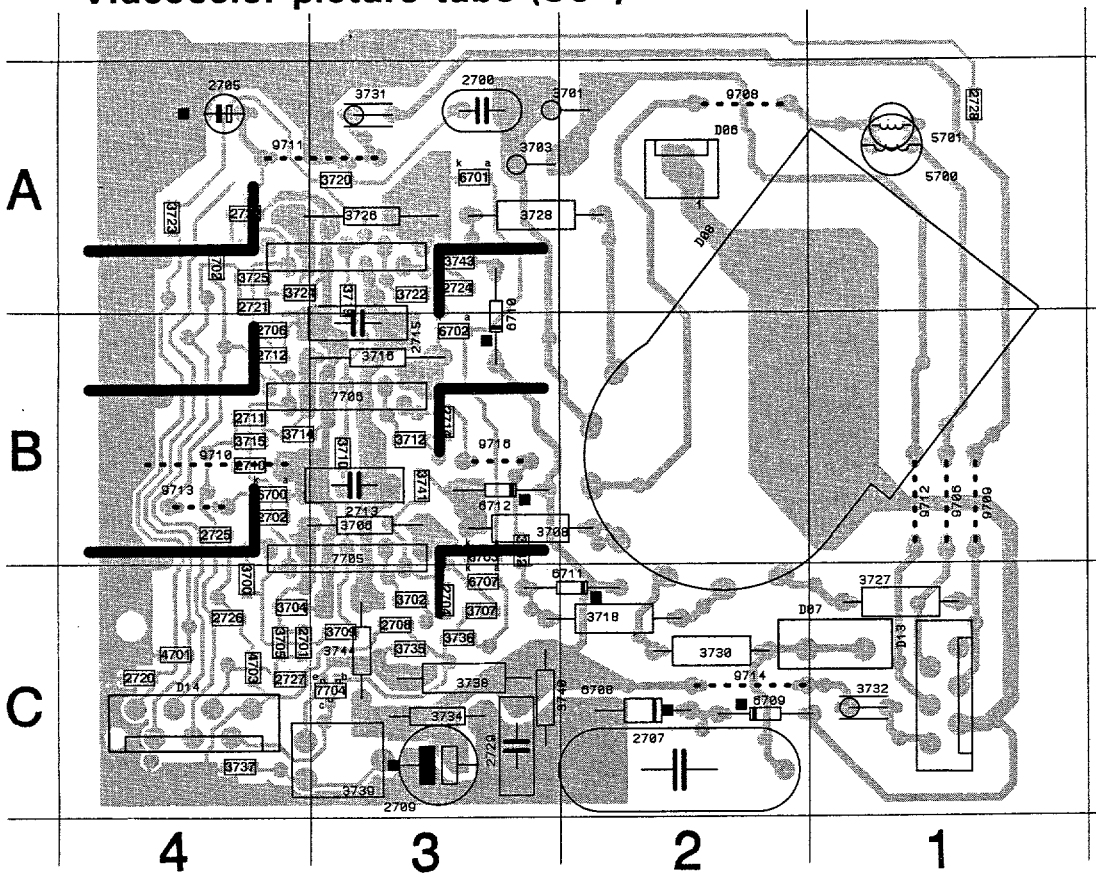


	16:9	4:3
2700	100p	-
2701	12p	6p8
2707	33n/2KV0	33n/1KV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R
3703	3R3	1R
3704	2k2	2k7
3705	2k4	3k3
3706	120k	150k
3709	150k	120k
3710	8k2	33k
3714	2k2	2k7
3715	2k4	3k3
3716	120k	150k
3724	2k2	2k7
3725	2k4	3k3
3726	120k	150k
3728	220R	680R
3737	12k	20k
3739	47k	-
4704	JMP	-
5700	82U	33U
5703	-	33U

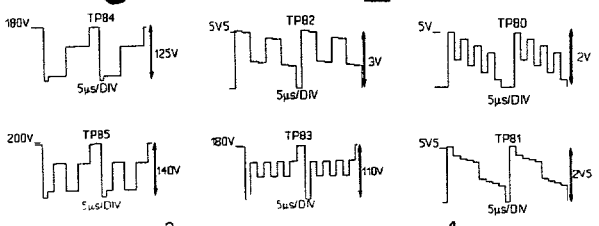
2700	M 2
2701	J 2
2703	M 2
2704	C 7
2705	M 8
2706	G 3
2707	M 8
2708	M 4
2709	B 5
2710	D 2
2711	G 2
2712	M 7
2713	E 4
2715	I 4
2716	J 3
2717	L 4
2720	H 2
2721	C 2
2726	C 3
2730	K 2
2731	D 4
2741	G 4
2751	K 4
2760	L 8
3700	L 2
3701	C 4
3702	B 5
3704	K 2
3705	K 2
3706	I 3
3708	J 6
3710	J 5
3711	G 4
3712	M 7
3714	H 2
3715	G 2
3716	F 3
3718	I 5
3719	F 5
3720	C 5
3721	J 4
3724	D 2
3726	C 3
3727	M 8
3728	D 5
3730	M 8
3731	M 8
3733	B 8
3734	B 8
3735	M 5
3736	M 4
3737	M 6
3738	M 6
3740	C 8
4702	F 2
4703	E 2
4709	I 2
5700	K 7
5701	K 8
6700	M 1
6701	C 4
6702	F 4
6703	I 4
6707	M 4
6714	G 8
6715	G 7
7704	N 6
7705	K 3
7706	G 3
7707	D 3
9706	L 7
9711	G 8

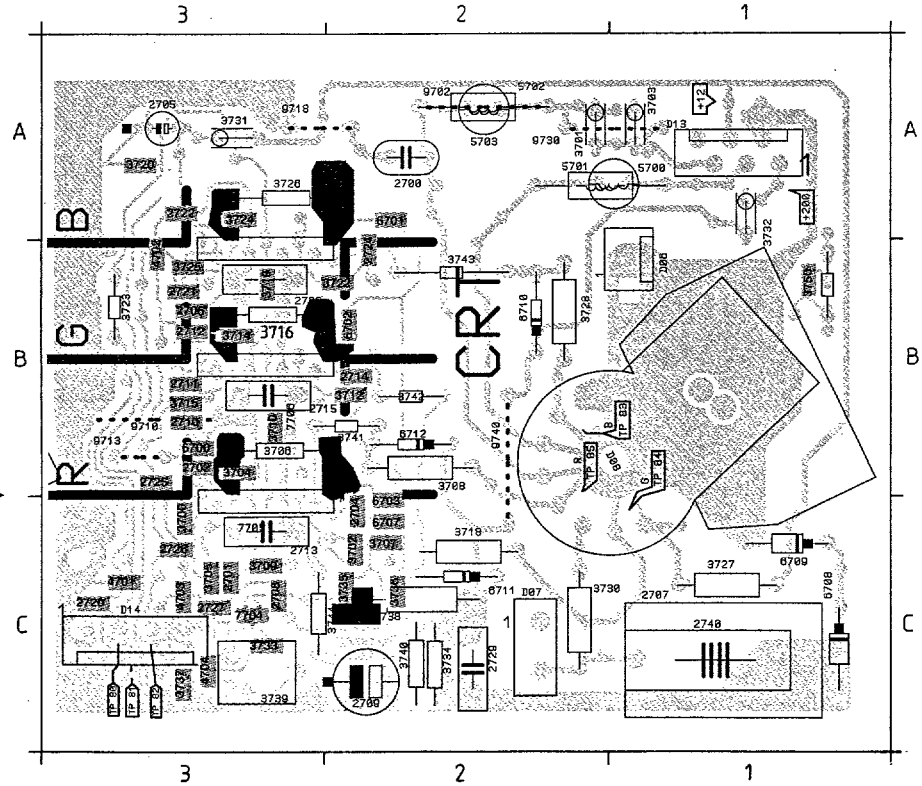
Platines Tube-image

Videocolor picture tube (36")



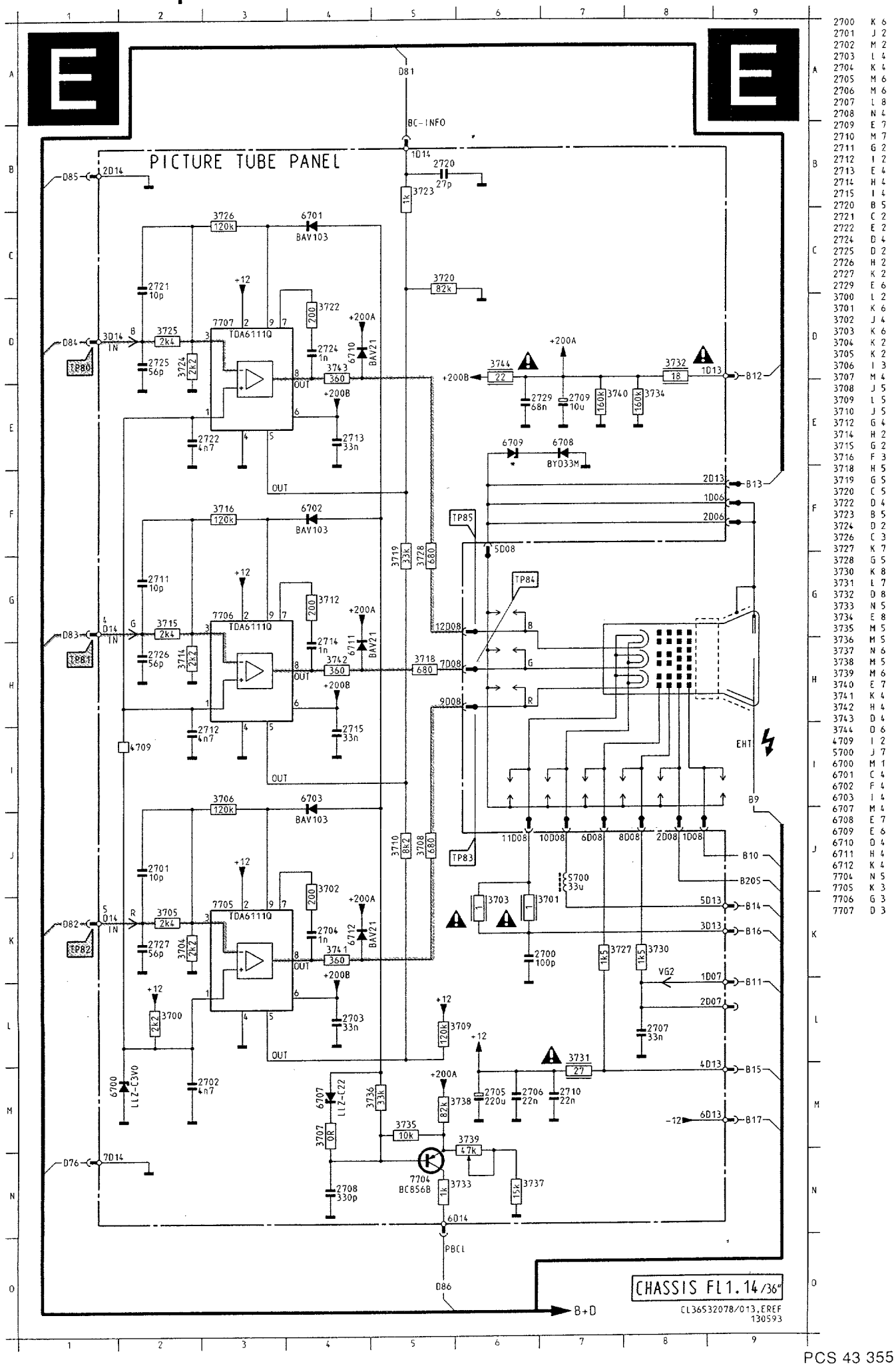
D06 A2	3708 B3	6701 A3
D07 C1	3709 C3	6702 B3
D08 B2	3710 B3	6703 B3
D13 C1	3712 B3	6707 C3
D14 C4	3714 B4	6708 C2
2700 A3	3715 B4	6709 C2
2701 C4	3716 B3	6710 B3
2702 B4	3718 C2	6711 C3
2704 C3	3719 A3	6712 B3
2705 A4	3720 A3	7704 C4
2706 B4	3722 A3	7705 B3
2707 C3	3723 A4	7706 B3
2708 C3	3724 A4	7707 A3
2709 C3	3725 A4	9706 B1
2710 B4	3726 A3	9708 A2
2711 B4	3727 C1	9709 B1
2712 B4	3728 A3	9710 B4
2713 B3	3730 C2	9711 A4
2714 B3	3731 A3	9712 B1
2715 B3	3732 C1	9713 B4
2720 C4	3734 C3	9714 C2
2721 A4	3735 C3	9716 B3
2722 A4	3736 C3	
2724 A3	3737 C4	
2725 B4	3738 C3	
2726 C4	3739 C3	
2727 C4	3740 C3	
2728 A1	3741 B3	
2729 C3	3742 B3	
3700 C4	3743 A3	
3701 A3	3744 C3	
3702 C3	4701 C4	
3703 A3	4702 A4	
3704 C4	4703 C4	
3705 C4	5700 A1	
3706 B3	5701 A1	
3707 C3	6700 B4	

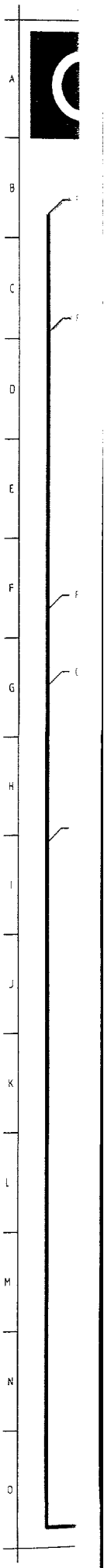




D06	B1	3708	B2	5701	A2
D07	C2	3709	C3	5702	A2
D08	B1	3710	B3	5703	A2
D13	A1	3712	B2	6700	B3
D14	C3	3714	B3	6701	A2
2700	A2	3715	B3	6702	B2
2701	C3	3716	B3	6703	C2
2702	B3	3718	C2	6707	C2
2703	B3	3719	B3	6708	C1
2704	C2	3720	A3	6709	C1
2705	A3	3722	B2	6710	B2
2706	B3	3723	B3	6711	C2
2707	C1	3724	A3	6712	B2
2708	C3	3725	B3	7704	C3
2709	C2	3726	A3	7705	C3
2710	B3	3727	C1	7706	B3
2711	B3	3728	B2	7707	B3
2712	B3	3730	C2	9702	A2
2713	C3	3731	A3	9710	B3
2714	B2	3732	A1	9713	B3
2715	B3	3733	C3	9718	A3
2720	C3	3734	C2	9730	A1
2721	B3	3735	C2	9740	B2
2722	A3	3736	C2		
2724	B2	3738	C2		
2725	B3	3739	C3		
2726	C3	3740	C2		
2727	C3	3741	B2		
2729	C2	3742	B2		
2740	C1	3743	B2		
3700	C3	3744	C3		
3701	A2	3750	B1		
3702	C2	3751	B1		
3703	A1	4701	C3		
3704	B3	4702	B3		
3705	C3	4703	C3		
3706	B3	4704	C3		
3707	C2	5700	A1		

Picture tube panel 36"

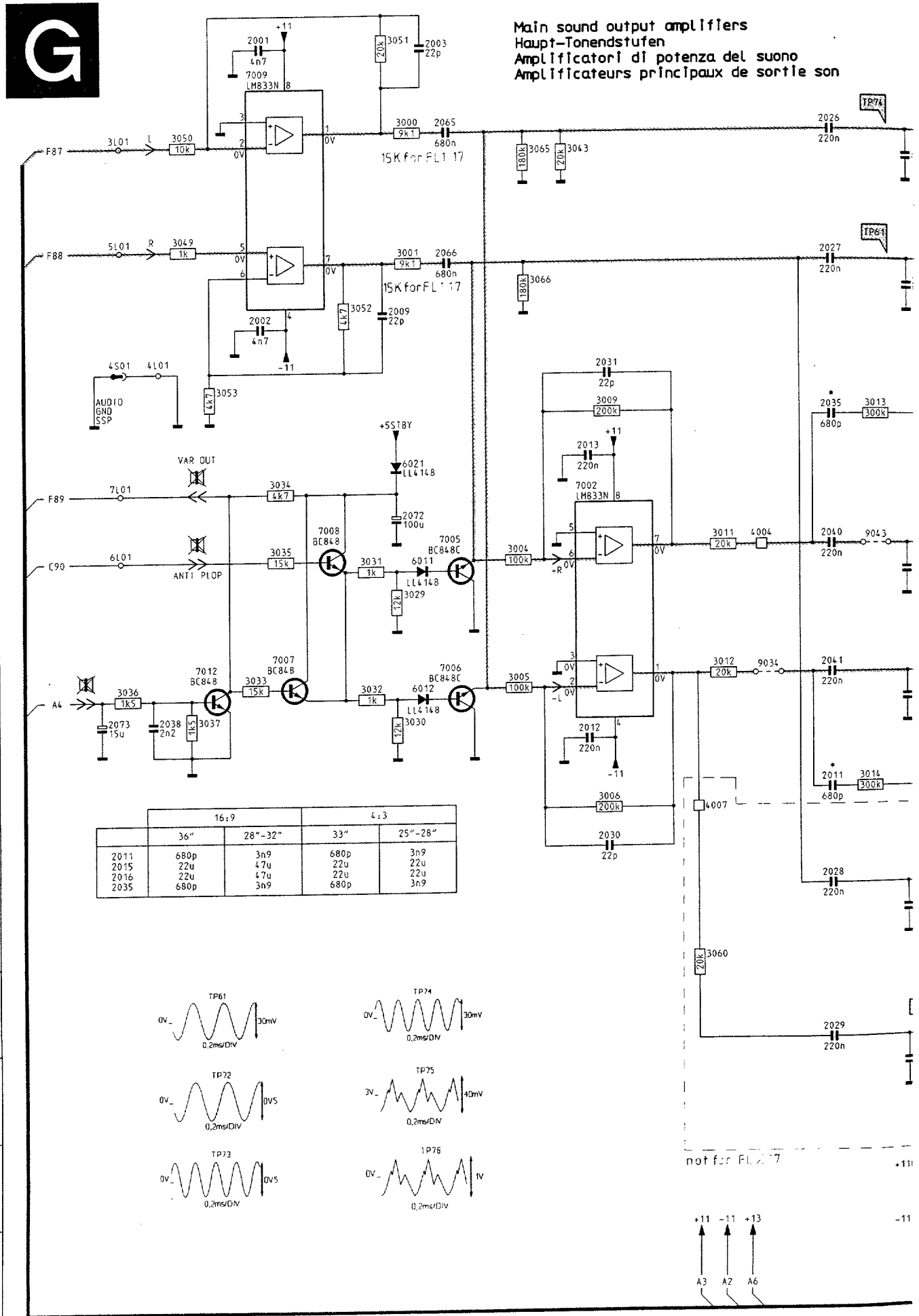



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

Audio amplification / Tonsignal Verstärker /

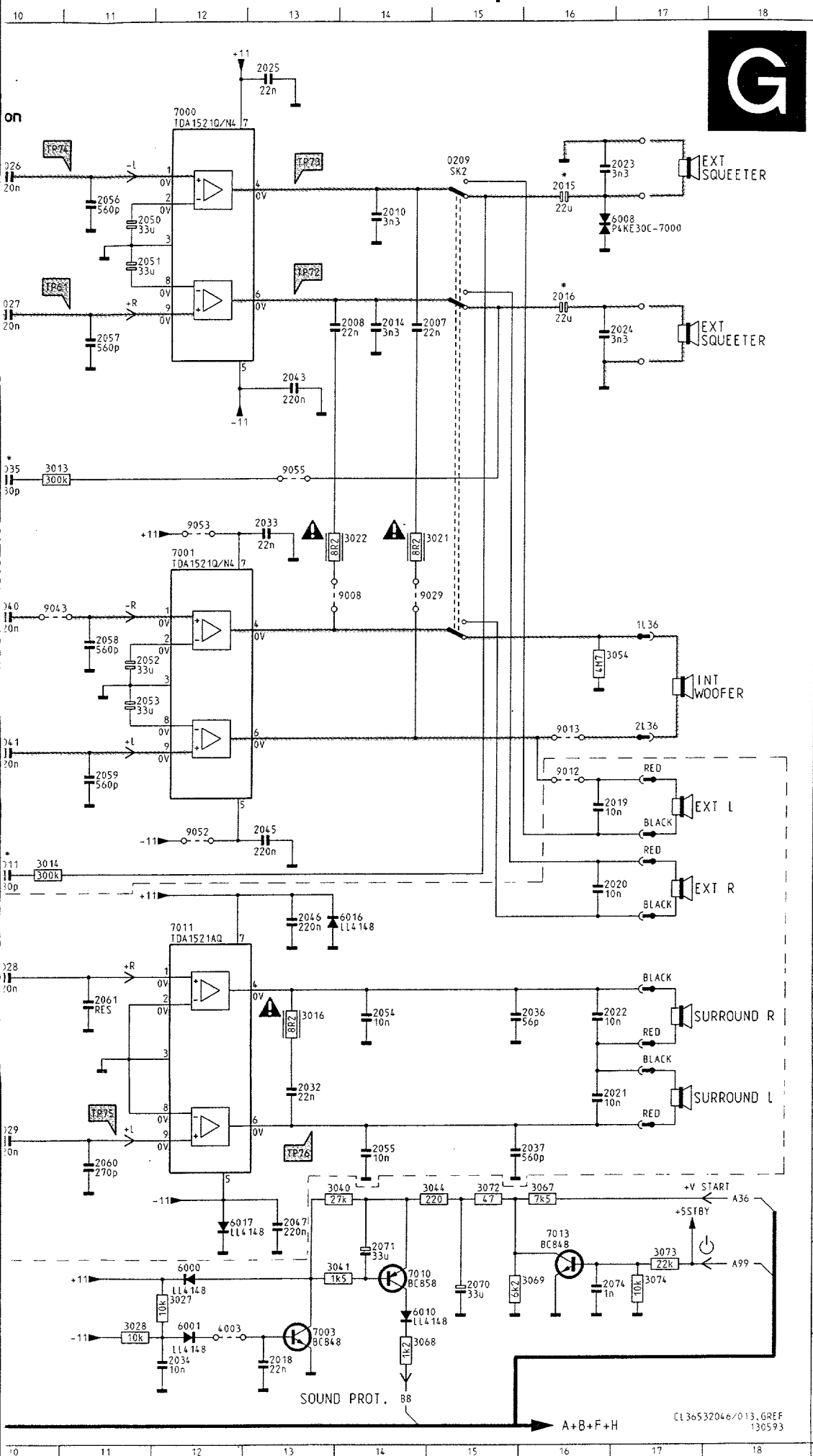
G

Main sound output amplifiers
Haupt-Tonendstufen
Amplificatori di potenza del suono
Amplificateurs principaux de sortie son



	16:9		4:3	
	36"	28"-32"	33"	25"-28"
2011	680p	3n9	680p	3n9
2015	22u	47u	22u	22u
2016	22u	47u	22u	22u
2035	680p	3n9	680p	3n9

Amplificateur audio



	0209	B15	7001	F12
	2001	A 3	7002	F 7
	2002	D 3	7003	O13
	2003	A 5	7005	G 5
A	2007	D14	7006	H 5
	2008	D14	7007	H 3
	2009	D 5	7008	G 4
	2010	B14	7009	A 3
	2011	I10	7010	N14
	2012	I 7	7011	J12
	2013	F 7	7012	H 3
	2014	D14	7013	M16
B	2015	B16	9008	F14
	2016	C16	9012	H16
	2018	O13	9013	H16
	2019	I16	9029	F14
	2020	J16	9034	H 9
	2021	L16	9043	G10
	2022	K16	9052	I12
	2023	B16	9053	F12
C	2024	D16	9055	E13
	2025	A13		
	2026	B10		
	2027	C10		
	2028	K10		
	2029	L10		
	2030	J 7		
D	2031	E 7		
	2032	L13		
	2033	F13		
	2034	O12		
	2035	E10		
	2036	K16		
	2037	M16		
	2038	I 2		
E	2040	G10		
	2041	H10		
	2043	D13		
	2045	I13		
	2046	J13		
	2047	M13		
	2050	B11		
F	2051	C11		
	2052	G11		
	2053	H11		
	2054	K14		
	2055	M14		
	2056	B11		
	2057	D11		
	2058	G11		
G	2059	H11		
	2060	M11		
	2061	K11		
	2065	B 5		
	2066	C 5		
	2070	N15		
	2071	N14		
H	2072	F 5		
	2073	I 2		
	2074	N16		
	3000	B 5		
	3001	C 5		
	3004	G 6		
	3005	H 6		
	3006	J 7		
I	3009	E 7		
	3011	G 9		
	3012	H 9		
	3013	E10		
	3014	I10		
	3016	K13		
	3021	F14		
J	3022	F14		
	3027	N12		
	3028	N11		
	3029	G 5		
	3030	I 5		
	3031	G 5		
	3032	H 5		
	3033	H 3		
K	3034	F 4		
	3035	G 4		
	3036	H 2		
	3037	J 3		
	3040	M14		
	3041	N14		
	3043	B 7		
L	3044	M15		
	3049	C 2		
	3050	B 2		
	3051	A 5		
	3052	D 4		
	3053	E 3		
	3054	G16		
	3060	K 8		
M	3065	B 6		
	3066	D 6		
	3067	M16		
	3068	O14		
	3069	N16		
	3072	M15		
	3073	N17		
N	3074	N17		
	4003	N12		
	4004	G 9		
	4007	J 8		
	6000	N12		
	6001	N12		
	6008	B16		
	6010	N14		
	6011	G 5		
O	6012	H 5		
	6016	J14		
	6017	M12		
	6021	F 5		
	7000	A12		

Large signal panel FL X.16/.17 /

L01	F1	2072	D4	2524	D1	3214	E5	3421	B3	3548	D2	4538	C3	6417	B3	7380	E3	9045	D4	9406	B2
L02	E1	2073	D4	2526	C1	3215	E5	3422	B3	3549	D2	5204	H2	6440	B3	7381	E3	9046	D4	9407	B2
L03	A1	2074	A5	2527	C1	3216	F4	3423	B3	3550	B4	5230	F4	6441	B3	7384	E3	9047	E5	9450	B1
L08	C4	2200	H3	2528	C1	3220	G4	3424	B2	3553	B4	5231	E5	6451	B1	7400	B3	9048	D4	9451	A1
L13	C4	2202	G2	2529	F1	3230	F3	3425	B3	3554	B4	5233	E4	6452	B1	7402	C3	9050	A3	9453	B2
L27	B3	2203	H2	2530	F1	3234	B4	3426	A2	3555	B3	5235	E4	6453	B1	7403	A1	9051	D4	9454	B2
L28	G1	2210	F4	2531	D3	3235	B4	3427	B3	3556	B3	5237	E3	6465	A1	7407	B3	9052	D4	9456	B2
L30	A1	2211	F4	2533	D3	3236	B4	3428	C3	3557	C4	5241	C4	6466	A1	7417	B3	9053	D5	9457	A1
L31	E2	2214	G4	2534	D3	3237	C4	3429	B3	3558	B3	5255	F3	6467	A1	7444	B2	9054	D4	9459	A3
L33	G2	2215	G4	2535	C4	3238	C4	3430	B3	3559	B4	5260	E3	6480	F1	7445	B2	9055	A4	9460	B2
L34	G2	2216	G5	2536	D3	3239	D3	3431	B3	3560	C3	5262	E3	6481	F1	7450	A1	9056	A4	9461	B3
L35	G3	2218	F5	2537	D3	3240	E3	3437	A1	3561	C3	5308	H5	6504	D1	7451	A1	9057	C5	9462	C4
L36	A2	2219	F5	2541	D4	3241	B4	3438	B2	3562	B4	5310	H5	6506	C1	7469	B2	9058	G2	9468	B3
L37	A3	2230	B4	2542	C4	3243	B4	3439	B3	3563	B4	5381	E3	6507	B4	7480	F2	9059	G1	9471	B2
L38	A2	2231	E4	2543	C4	3245	B4	3440	B1	3600	B2	5503	B1	6515	C3	7481	E2	9060	G1	9472	A2
L39	F3	2232	E5	2545	C4	3246	E1	3441	B3	3601	C2	5504	C1	6516	C3	7501	B2	9063	B5	9473	B2
L40	E3	2233	E4	2546	D2	3247	B4	3442	B3	3602	B2	5506	C1	6517	C3	7504	D1	9064	B5	9500	D2
L61	G2	2234	E5	2547	C2	3248	B4	3443	C3	3603	B2	5510	D1	6519	E2	7506	D1	9065	B4	9501	D2
L62	E5	2235	D3	2552	B4	3249	F3	3444	B2	3604	B2	5511	D3	6520	E2	7512	C3	9066	B5	9504	D2
L65	G2	2236	D4	2553	B4	3250	F3	3446	B2	3605	C3	5514	F2	6526	C1	7513	C3	9067	A3	9505	C1
L67	D4	2237	E3	2554	D4	3251	F3	3450	A1	3606	B2	5520	E2	6527	C1	7530	F1	9068	G3	9506	D1
L68	C3	2238	D4	2555	B3	3252	F3	3451	A1	3607	B2	5521	E1	6529	F1	7540	C4	9200	E5	9507	C2
L69	A2	2240	D4	2556	B4	3253	F2	3452	B1	3608	F1	5522	E2	6535	D3	7541	C4	9201	F5	9508	B2
L80	G4	2241	B4	2600	F1	3255	F3	3455	A1	3609	F1	5524	D1	6536	C3	7542	C4	9202	D3	9510	D2
L87	B2	2242	B4	2601	B2	3266	F2	3456	A2	3610	F1	5525	C4	6538	B2	7543	D2	9203	D4	9511	C2
SK1	G3	2250	F3	2603	C2	3267	F2	3457	A2	3611	F1	5526	E1	6542	C4	7550	D3	9204	G2	9513	D1
SK2	B3	2254	F2	2604	B2	3268	G2	3458	A1	3612	E1	5527	C1	6546	C2	7551	B4	9205	H1	9521	E1
0207	A4	2255	F3	2605	F1	3270	F2	3459	A1	3614	F1	5528	C2	6547	D3	7552	B4	9206	H1	9522	E1
0211	A3	2258	F3	2606	C3	3271	F2	3460	B1	3615	F1	5534	D3	6551	B4	7601	F1	9207	G1	9524	D1
039	H5	2259	F3	2607	B3	3272	F2	3461	A1	3616	F1	5536	D3	6601	E1	7602	F1	9216	G2	9530	B2
040	H4	2260	E3	2609	F1	3273	G2	3462	A1	3617	F1	5543	D4	6629	B2	7603	F1	9217	G2	9533	C2
1200	G3	2261	E3	2610	F1	3274	G1	3463	A1	3618	B2	5548	D1	7000	C5	7608	F1	9218	H1	9534	C2
2001	G1	2262	E3	2611	F1	3275	G2	3464	A1	3619	F1	5555	D3	7001	D5	7610	E1	9219	E3	9535	C3
2002	G1	2263	E2	2613	F1	3298	F5	3465	A2	3620	F1	6000	A5	7002	C5	7616	A1	9220	G4	9537	C3
2003	G1	2270	G1	2614	F1	3299	F5	3466	A1	3621	E1	6001	A5	7003	A5	7618	A2	9221	G3	9539	C3
2004	G1	2272	G2	2626	A2	3300	H5	3467	B2	3622	E1	6008	A3	7005	D5	9000	A4	9222	F3	9541	D2
2005	G1	2302	H5	3000	D4	3304	H5	3468	A1	3623	E1	6010	A5	7006	D5	9001	C5	9223	F4	9542	C2
2007	B5	2303	H5	3001	D5	3305	H5	3469	A1	3624	E1	6011	D5	7007	D5	9002	A3	9224	F5	9543	C2
2008	B5	2308	H5	3004	C5	3306	F3	3470	A1	3625	E1	6012	D5	7008	D5	9003	A4	9225	E3	9544	D1
2009	G1	2321	H5	3005	D5	3308	H5	3471	A1	3626	B2	6016	B5	7009	G1	9008	B5	9228	E4	9545	C1
2010	A4	2331	H4	3006	C5	3309	H5	3473	B1	3627	A1	6017	E4	7010	A5	9010	C5	9229	E5	9547	D1
2011	D5	2351	H4	3008	C5	3310	H5	3474	A2	3628	A1	6021	D4	7011	B5	9012	A4	9230	F3	9548	D1
2012	C5	2360	H4	3009	C5	3311	H5	3479	F2	3629	B2	6201	F3	7012	D4	9013	A4	9231	E5	9549	E1
2013	C5	2361	H4	3011	C5	3312	H5	3480	B1	3630	A2	6210	G3	7013	A5	9015	B4	9232	E4	9550	C1
2014	A3	2365	H4	3012	C5	3313	H5	3481	F2	3631	A2	6211	F3	7201	F3	9017	B5	9233	F2	9551	C1
2015	A3	2372	H4	3013	D4	3314	H5	3482	F2	3632	C3	6212	F4	7216	G5	9020	D5	9234	F1	9552	F1
2016	A3	2374	H4	3014	D4	3317	H5	3483	B3	3633	A2	6213	F4	7241	B4	9022	A3	9235	E4	9556	C1
2018	A5	2376	H4	3016	B5	3320	H5	3484	B3	3634	A1	6216	F5	7242	B4	9023	A4	9236	F1	9557	E2
2019	A4	2380	E3	3019	B5	3321	H5	3485	E2	4000	A5	6220	G4	7246	E1	9024	A4	9237	F1	9560	D3
2020	A4	2381	E3	3020	B5	3322	H5	3490	B3	4001	D5	6221	G5	7250	F3	9025	A5	9238	G3	9561	D3
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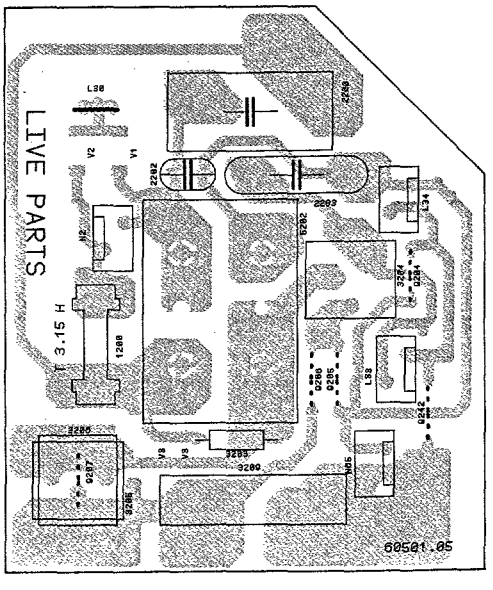
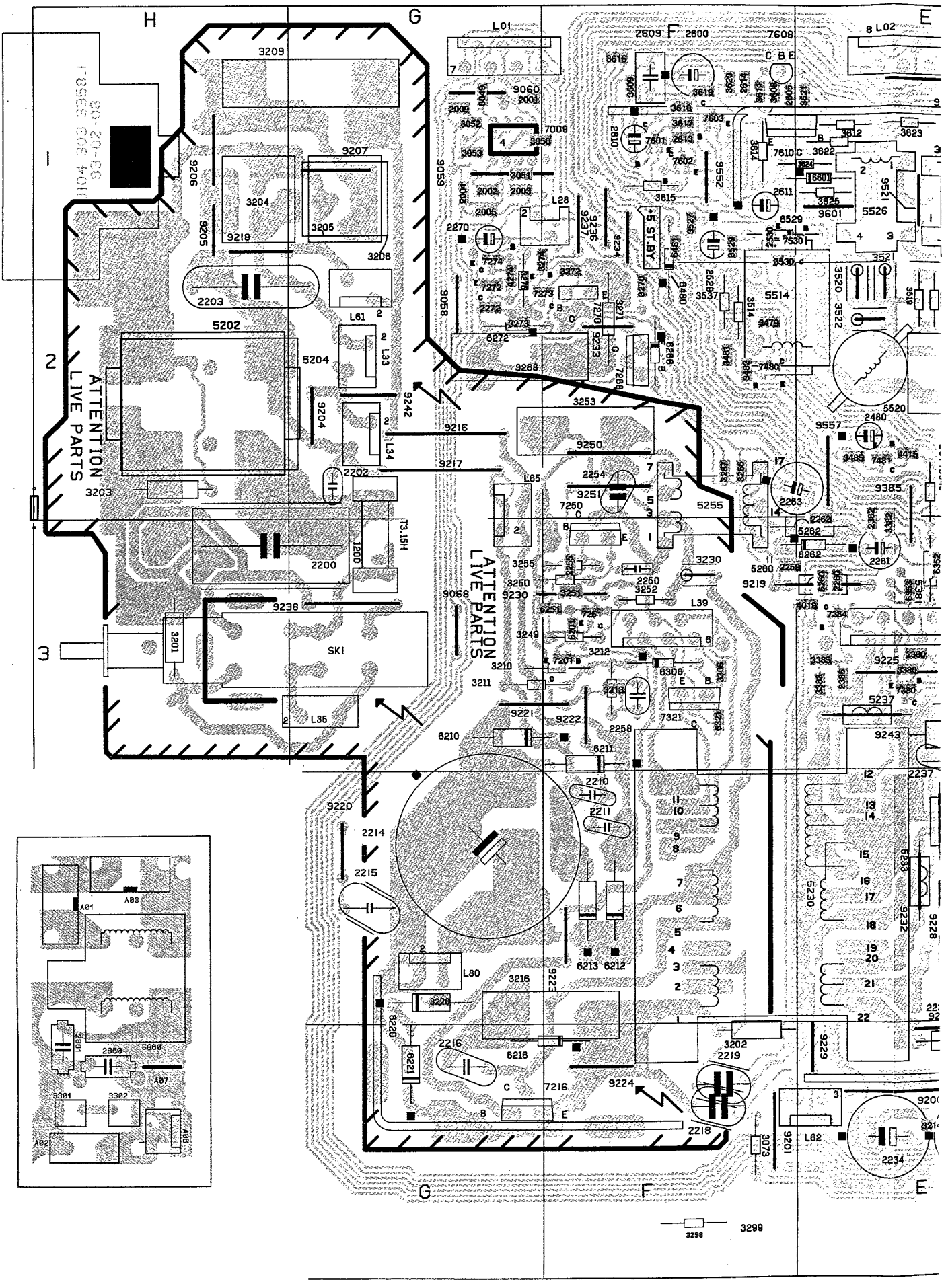


Groß-signal Platte FL X.16/.17 /



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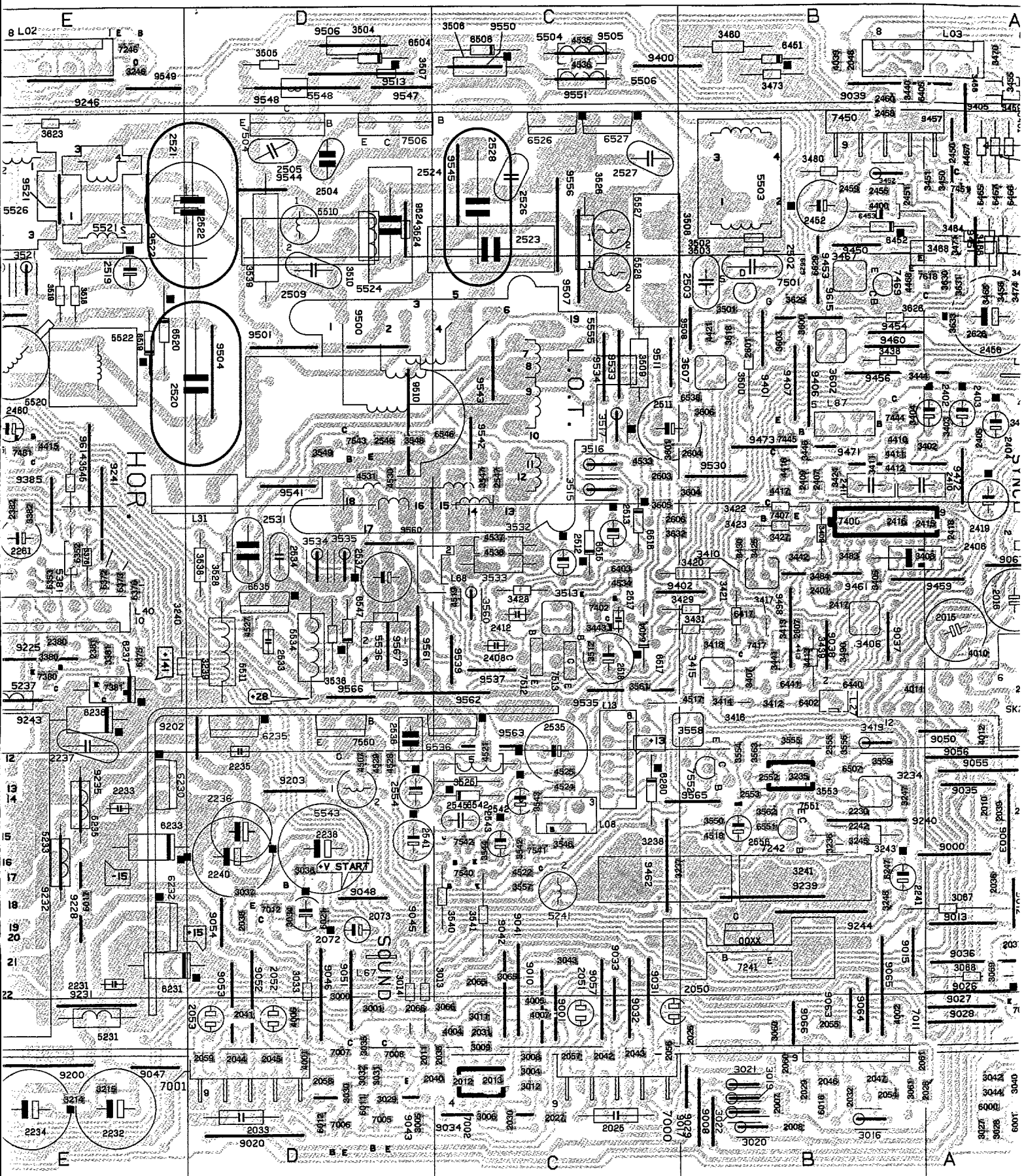

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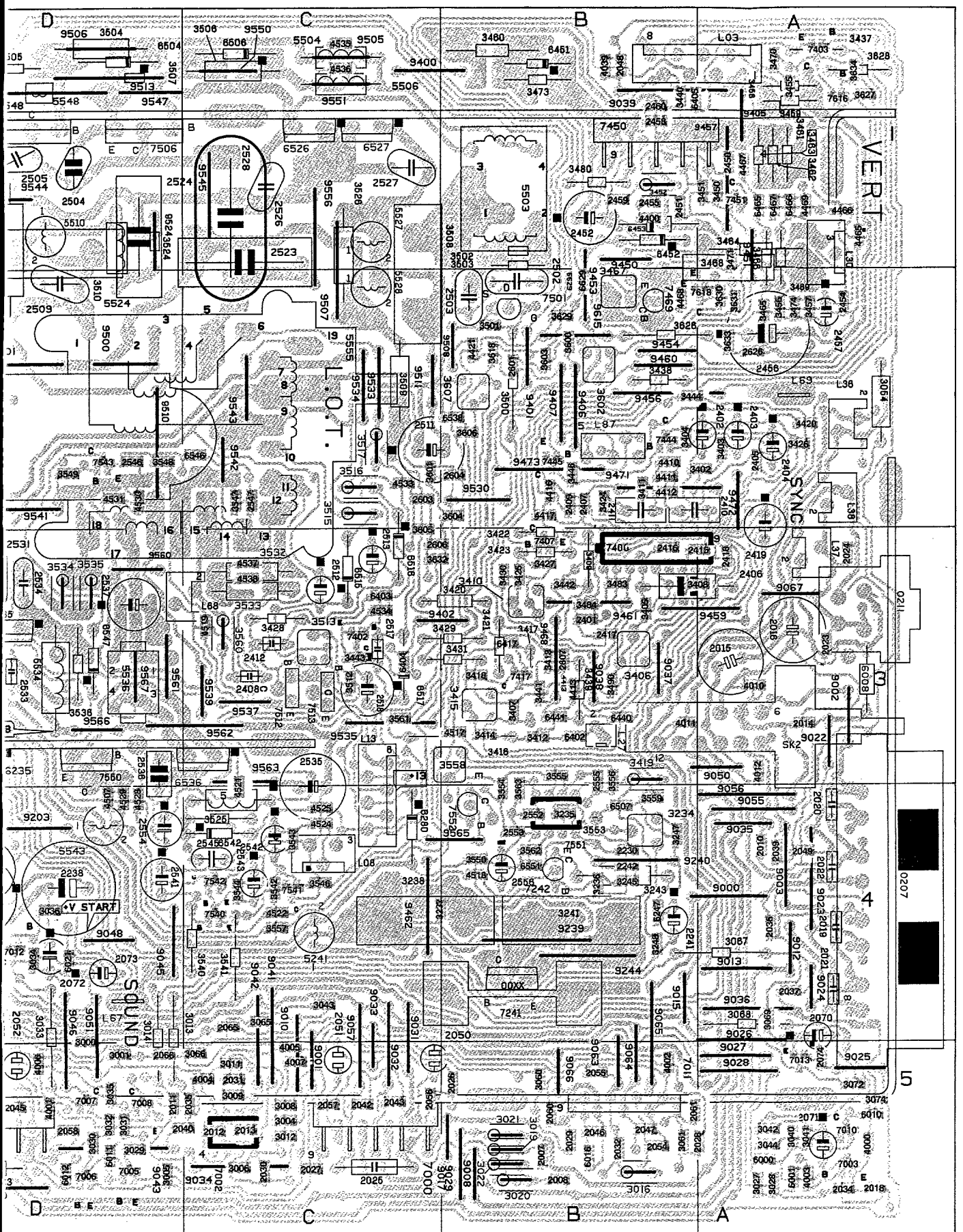
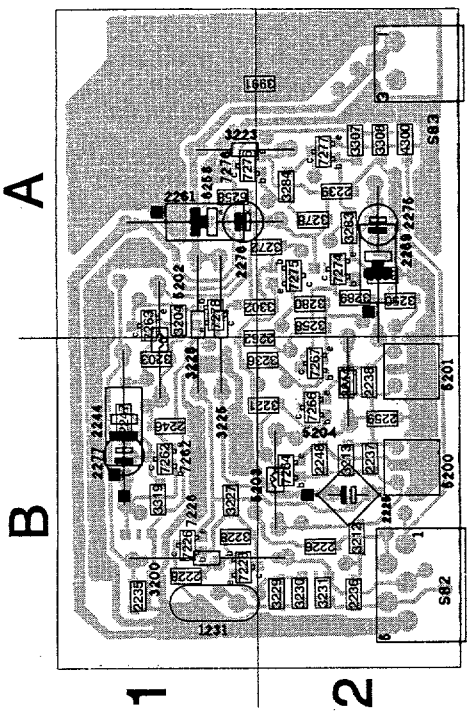


4 004 16081

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



S82 B2	2239 A2	2276 A1	3221 B2	3250 A2
S83 A2	2244 B1	2277 B1	3223 A1	3258 B2
1231 B1	2246 B1	3190 A2	3225 A1	3272 A2
2225 B2	2247 B1	3200 B1	3226 A1	3278 A2
2226 B2	2248 B2	3201 A1	3227 B1	3280 A2
2228 B1	2259 B2	3203 B1	3228 B1	3282 A2
2235 B1	2261 A1	3204 A1	3229 B2	3283 A2
2236 B2	2262 B2	3212 B2	3230 B2	3284 A2
2237 B2	2269 A2	3213 B2	3231 B2	3289 A2
2238 B2	2275 A2	3214 B2	3236 B2	3302 A2

3307 A2	6258 A1	7276 A1
3308 A2	7226 B1	7277 A2
3319 B1	7228 B1	7278 A1
3991 A2	7262 B1	
4300 A2	7263 A1	
5200 B2	7264 B2	
5201 B2	7266 B2	
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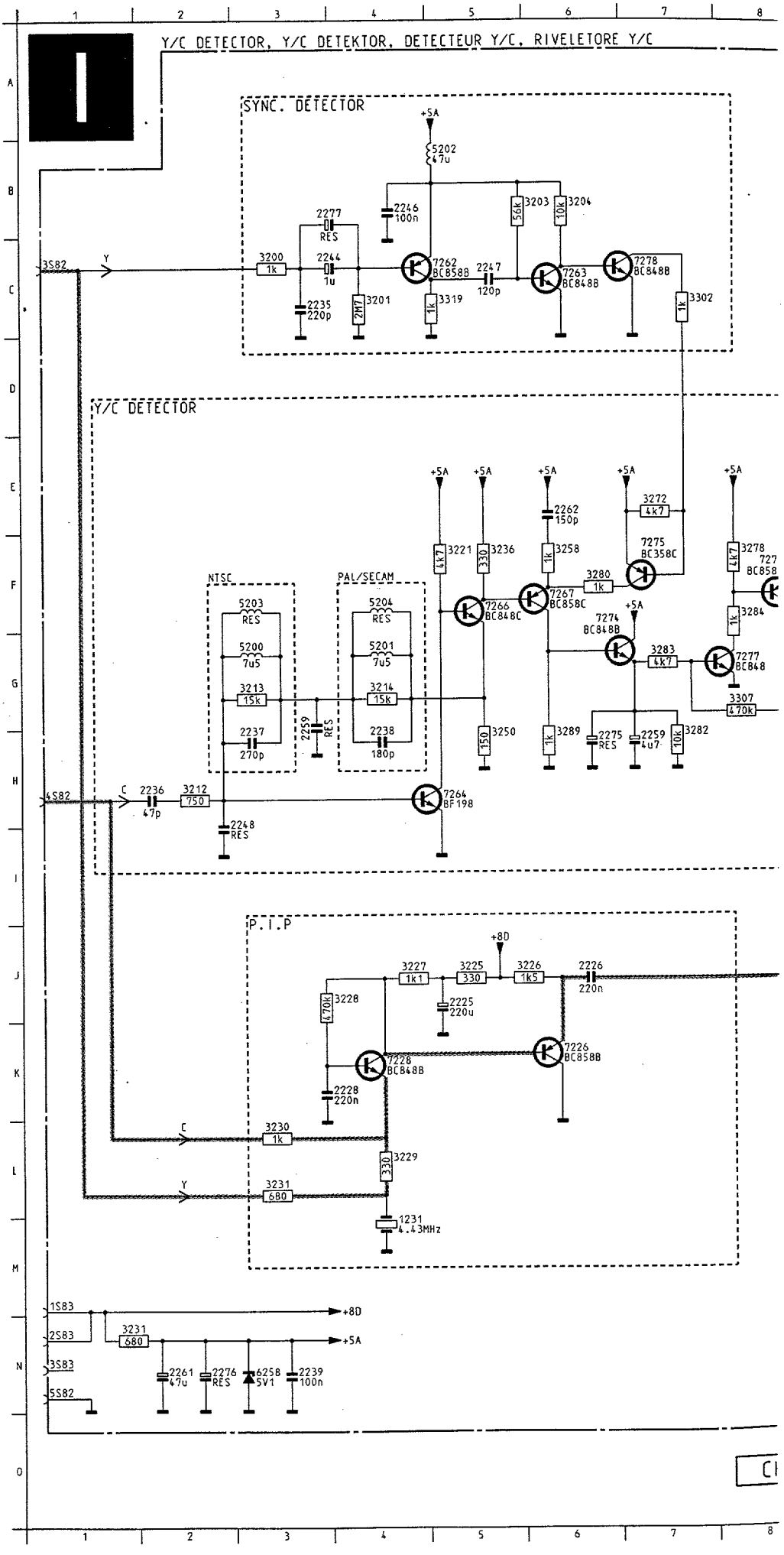
5203 B2	7274 A2	
5204 B2	7275 A2	



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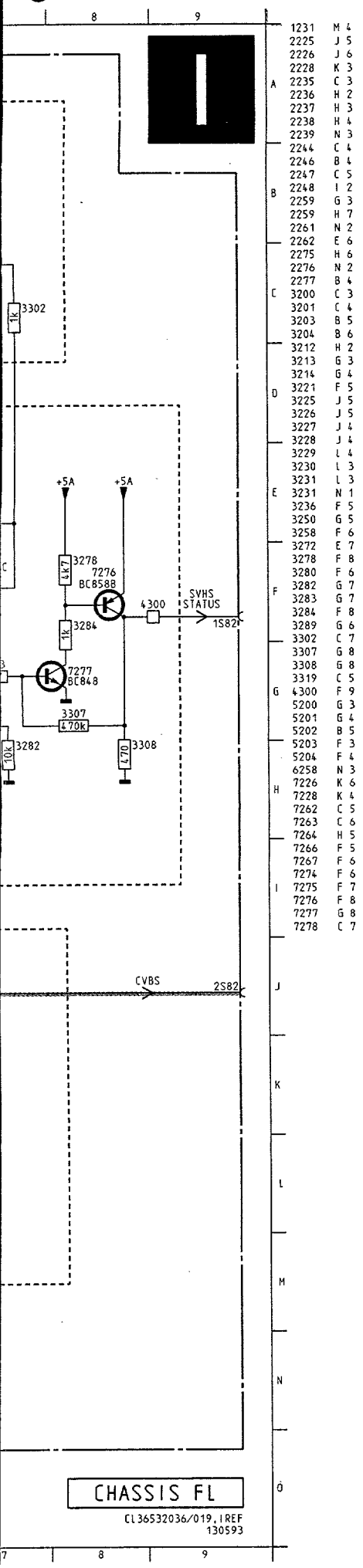

1231 M 4
2225 J 5
2226 J 6
2228 K 3
A 2235 C 3
2236 H 2
2237 H 3
2238 H 4
2239 N 3
2244 C 4
2246 B 4
2247 C 5
B 2248 I 2
2259 G 3
2259 H 7
2261 N 2
2262 E 6
2275 H 6
2276 N 2
2277 B 4
C 3200 C 3
3201 C 4
3203 B 5
3204 B 6
3212 H 2
3213 G 3
3214 G 4
D 3221 F 5
3225 J 5
3226 J 5
3227 J 4
3228 J 4
3229 L 4
3230 L 3
3231 L 3
E 3231 N 1
3236 F 5
3250 G 5
3258 F 6
3272 E 7
3278 F 8
3280 F 6
F 3282 G 7
3283 G 7
3284 F 8
3289 G 6
3302 C 7
3307 G 8
3308 G 8
3319 C 5
G 4300 F 9
5200 G 3
5201 G 4
5202 B 5
5203 F 3
5204 F 4
6258 N 3
7226 K 6
H 7228 K 4
7262 C 5
7263 C 6
7264 H 5
7266 F 5
7267 F 6
7274 F 6
I 7275 F 7
7276 F 8
7277 G 8
7278 C 7

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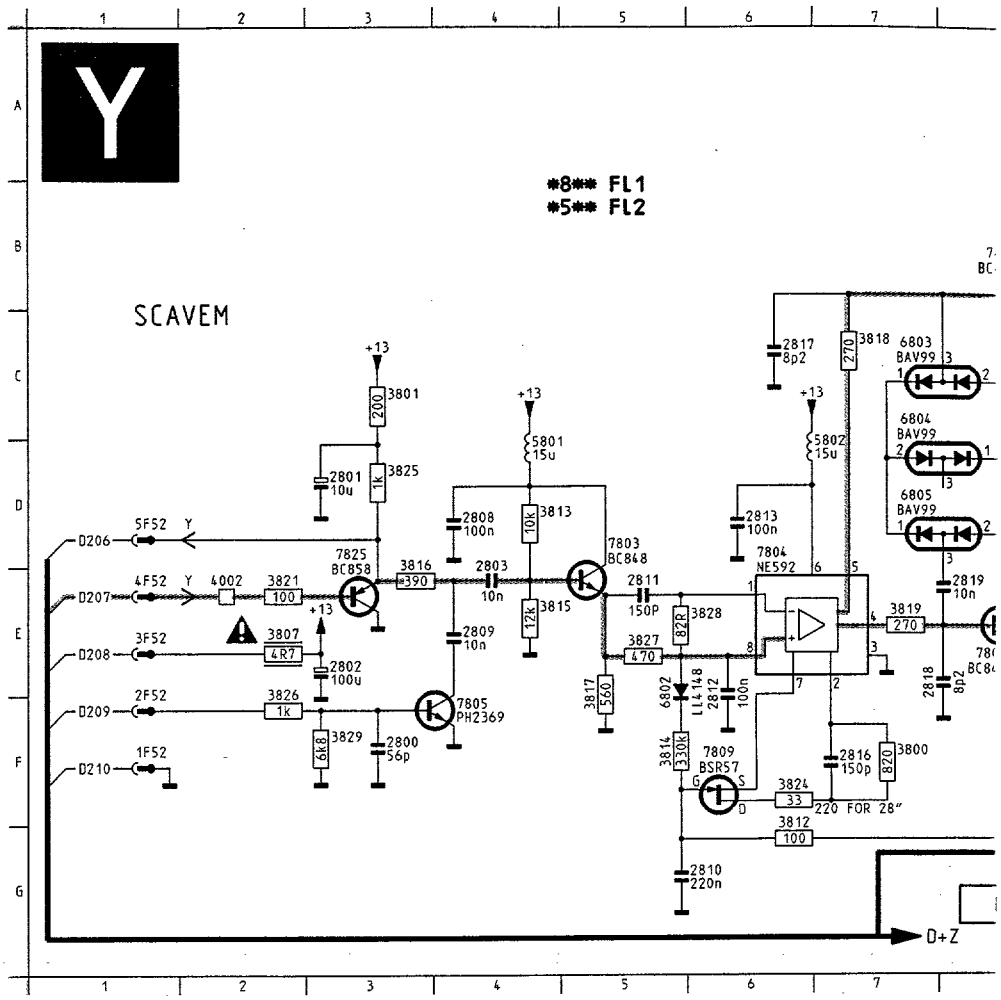

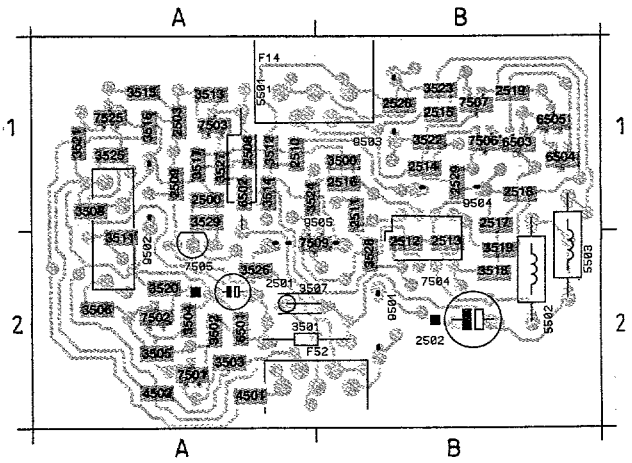

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1501	A1	2511	B1	2519	B1	3505	A2	3515	A1				
2500	A1	2512	B2	2528	B1	3506	A2	3516	A1				
2501	A2	2513	B2	2529	B1	3507	A2	3517	A1				
2502	B2	2514	B1	3500	B1	3508	A1	3518	B2				
2503	A1	2515	B1	3501	A2	3511	A1	3519	B2				
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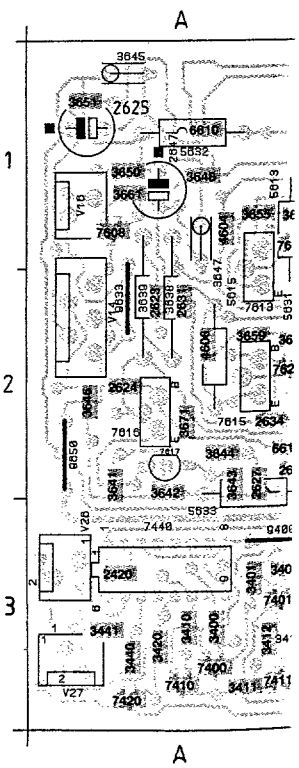

V2	B3	2630	B1	3424	B3	3638	A2	3671	A2	7410	A3	7620	B2
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V15	B2	2632	B1	3426	B3	3641	A2	4603	B1	7420	A3	9400	A3
V16	A1	2633	B1	3430	B3	3642	A2	4604	A1	7421	B3	9401	B3
V26	A3	2634	A2	3431	B3	3643	A2	4605	B2	7423	B3	9615	B1
V27	A3	2635	A2	3432	B3	3644	A2	4606	A2	7425	B3	9633	A2
V90	B2	2636	B1	3433	B3	3645	A1	4612	A2	7430	B3	9640	B2
2420	A3	2637	A2	3434	B3	3646	A2	5612	B1	7431	B3	9650	A2
2490	B3	2647	A1	3435	B3	3647	A1	5613	A1	7433	B3	9651	B1
2491	B3	2671	B2	3440	A3	3648	A1	5614	B2	7435	B3		
2604	B2	2672	B2	3441	A3	3650	A1	5615	A2	7440	A3		
2605	B1	3400	A3	3490	B3	3651	A1	5630	B2	7608	A1		
2606	B2	3401	A3	3491	B3	3652	B1	5631	B2	7610	B1		
2607	B2	3402	A3	3609	B2	3653	B1	5632	A1	7611	B1		
2620	B1	3410	A3	3610	B2	3654	A1	5633	A2	7612	B2		
2621	B1	3411	A3	3630	B1	3655	A1	6426	B3	7613	A2		
2622	B2	3412	A3	3631	B1	3656	B2	6427	B3	7614	B2		
2623	A2	3413	A3	3633	B1	3657	B2	6490	B3	7615	A2		
2624	A2	3420	A3	3634	B1	3658	A2	6610	A1	7616	A2		
2625	A1	3421	A3	3635	B1	3659	A2	6616	A2	7617	A2		
2626	B1	3422	A3	3636	B1	3661	A1	7400	A3	7618	B1		
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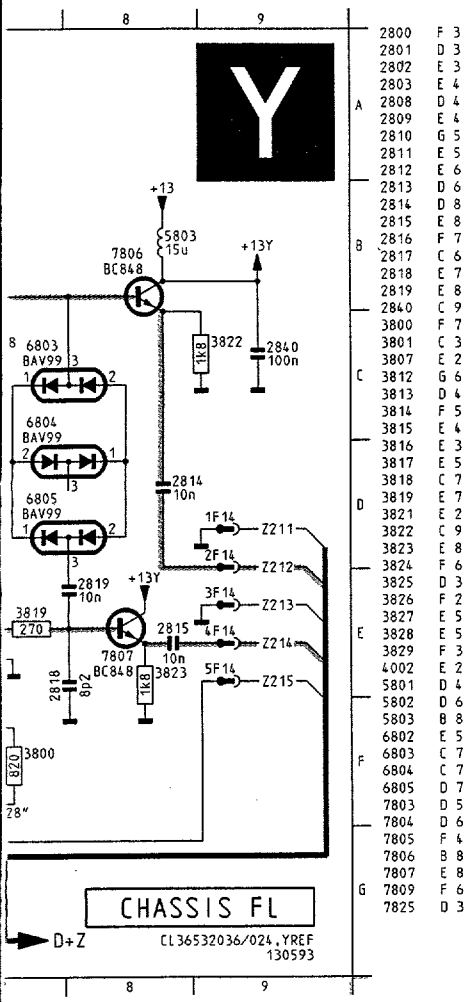

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A2	3515	A1	3523	B1	7525	A1	5501	A1	7501	A2
A2	3516	A1	3524	A1	9501	B2	5502	B2	7502	A2
A2	3517	A1	3525	A1	9502	A1	5503	B2	7503	A1
A1	3518	B2	3526	A2	9503	B1	6501	A2	7504	B2
A1	3519	B2	3527	A1	9504	B1	6502	A1	7505	A2
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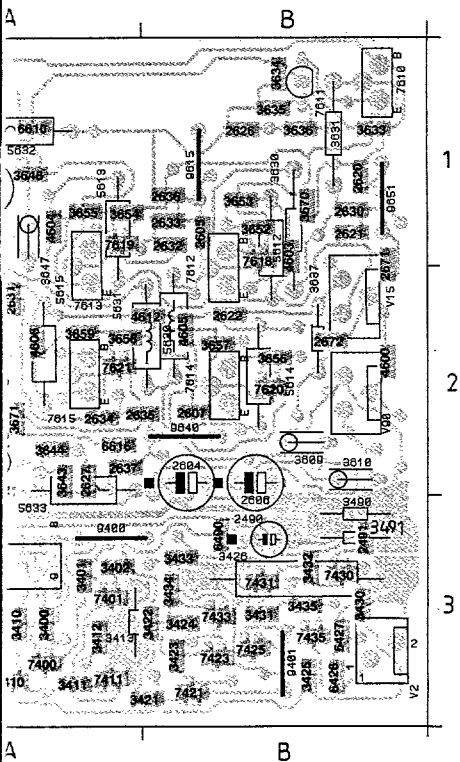

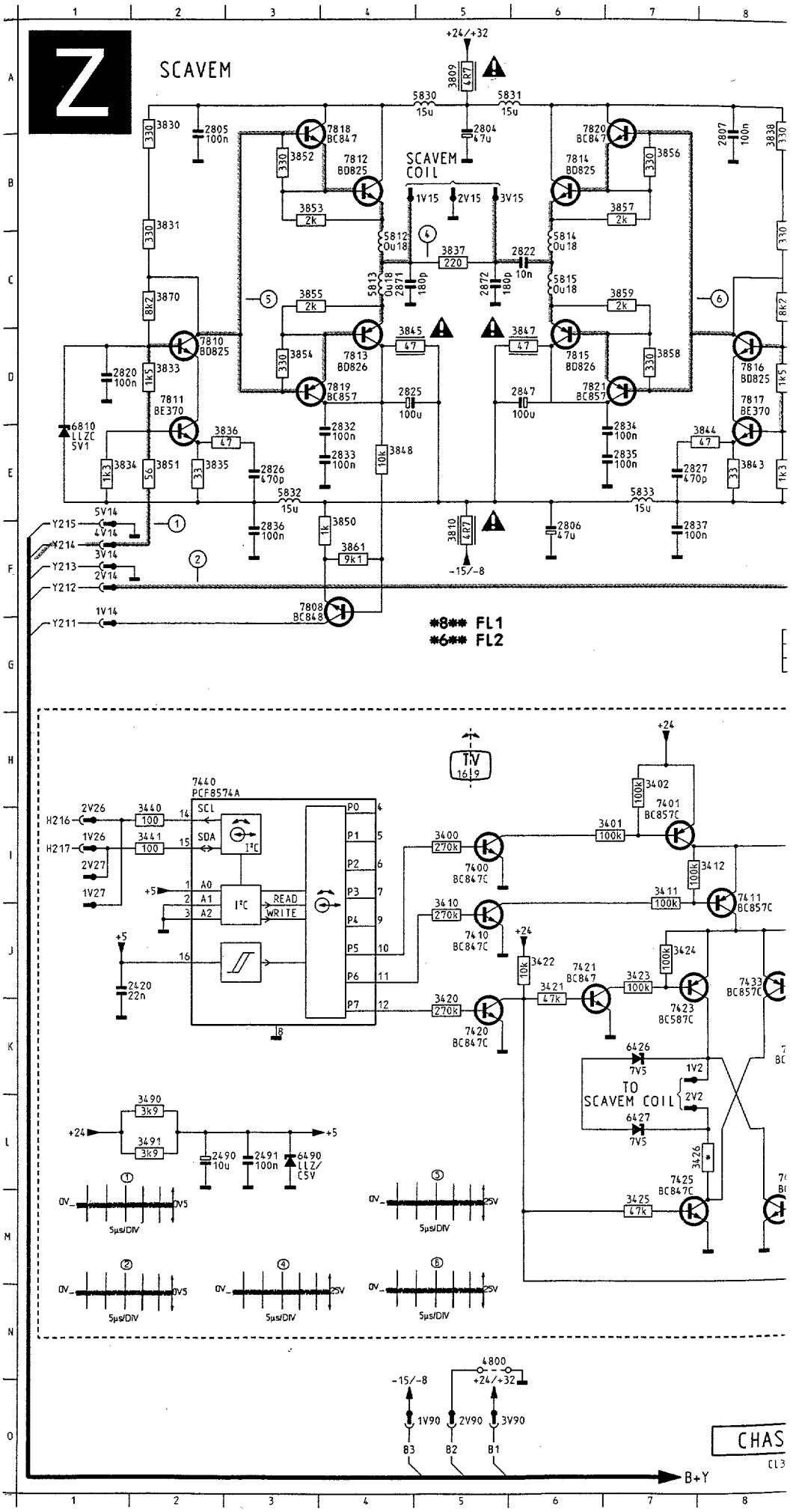

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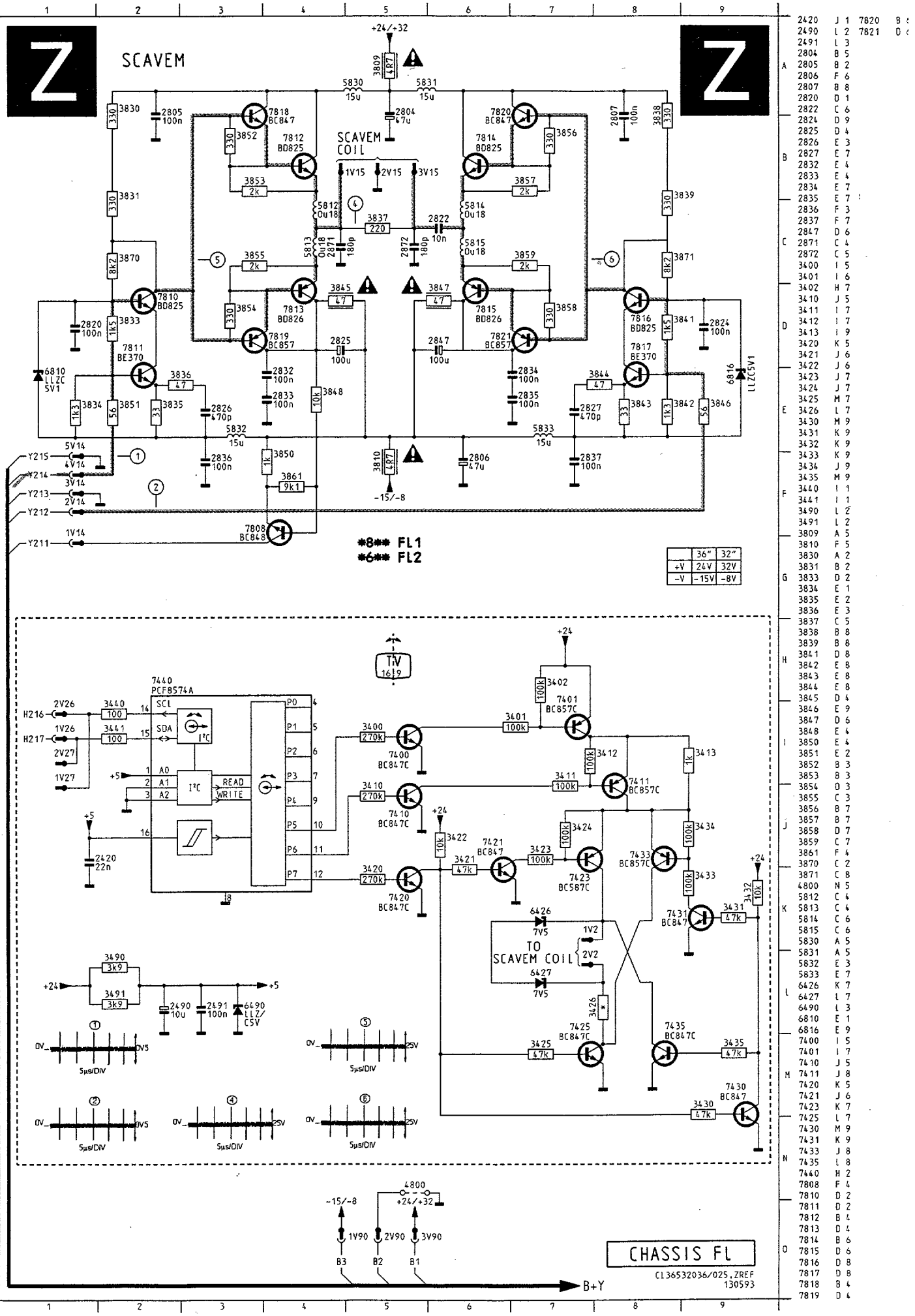

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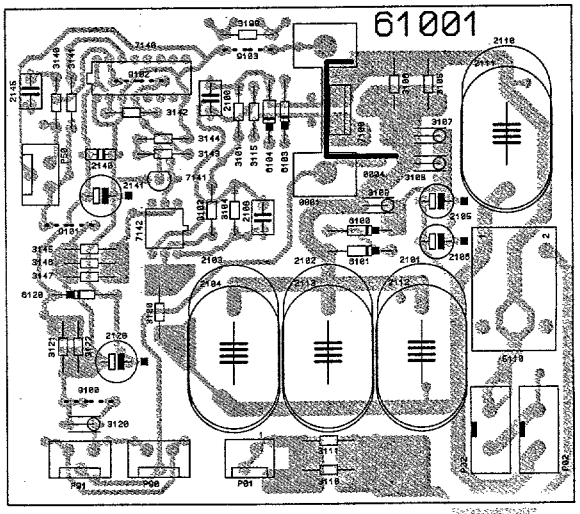
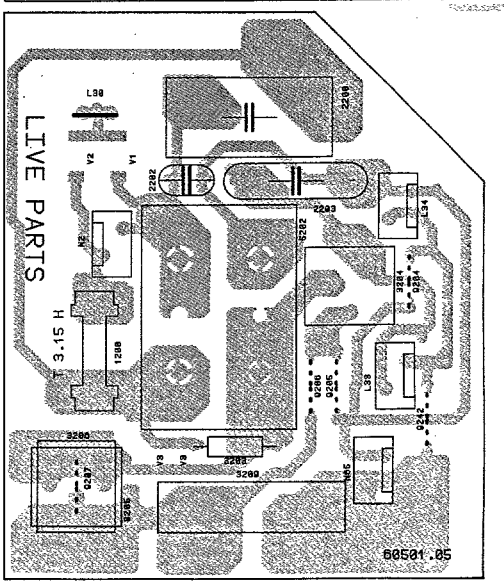
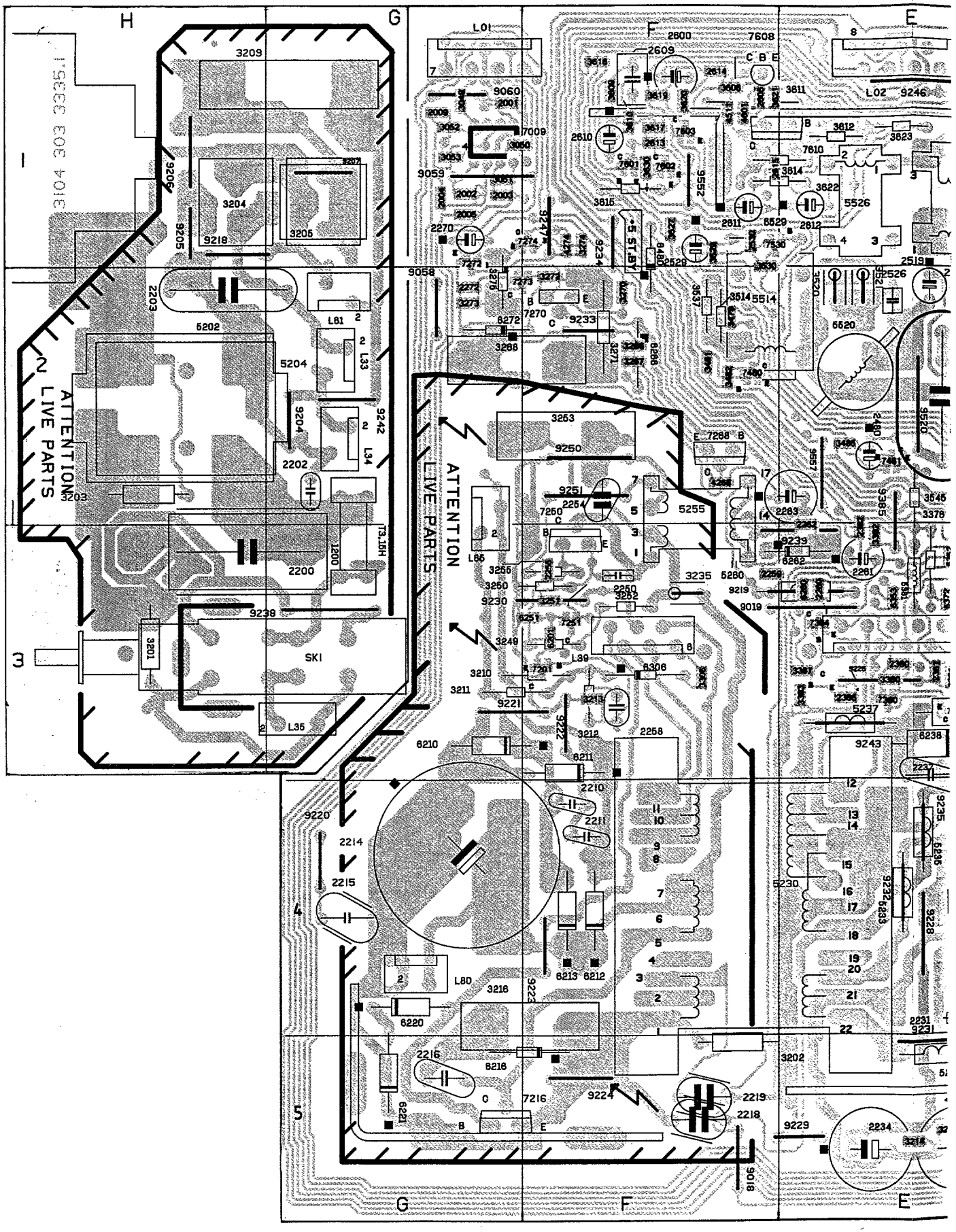




Large signal panel FL X.14 / Groß-signal Platte FL X.14 /



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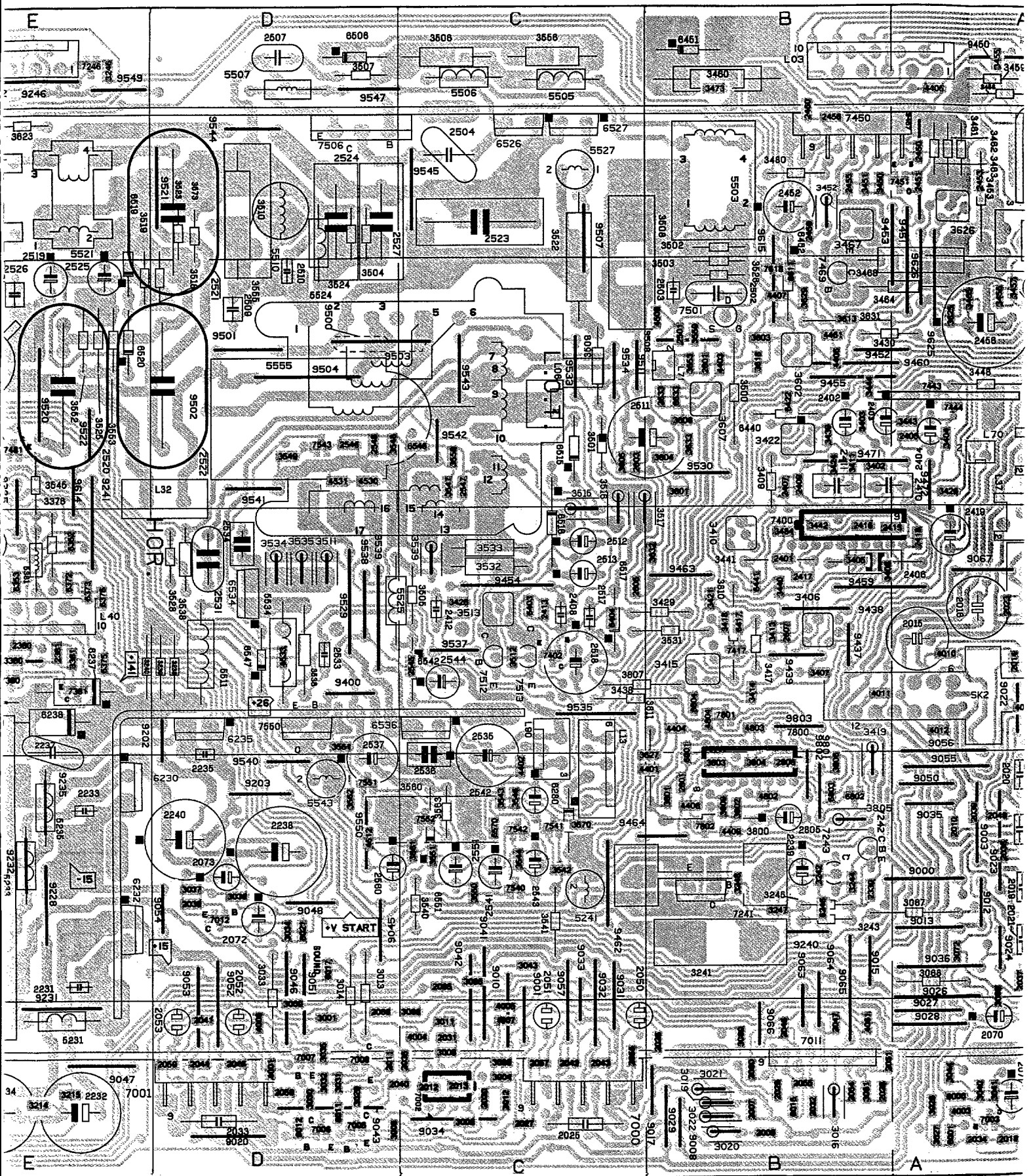

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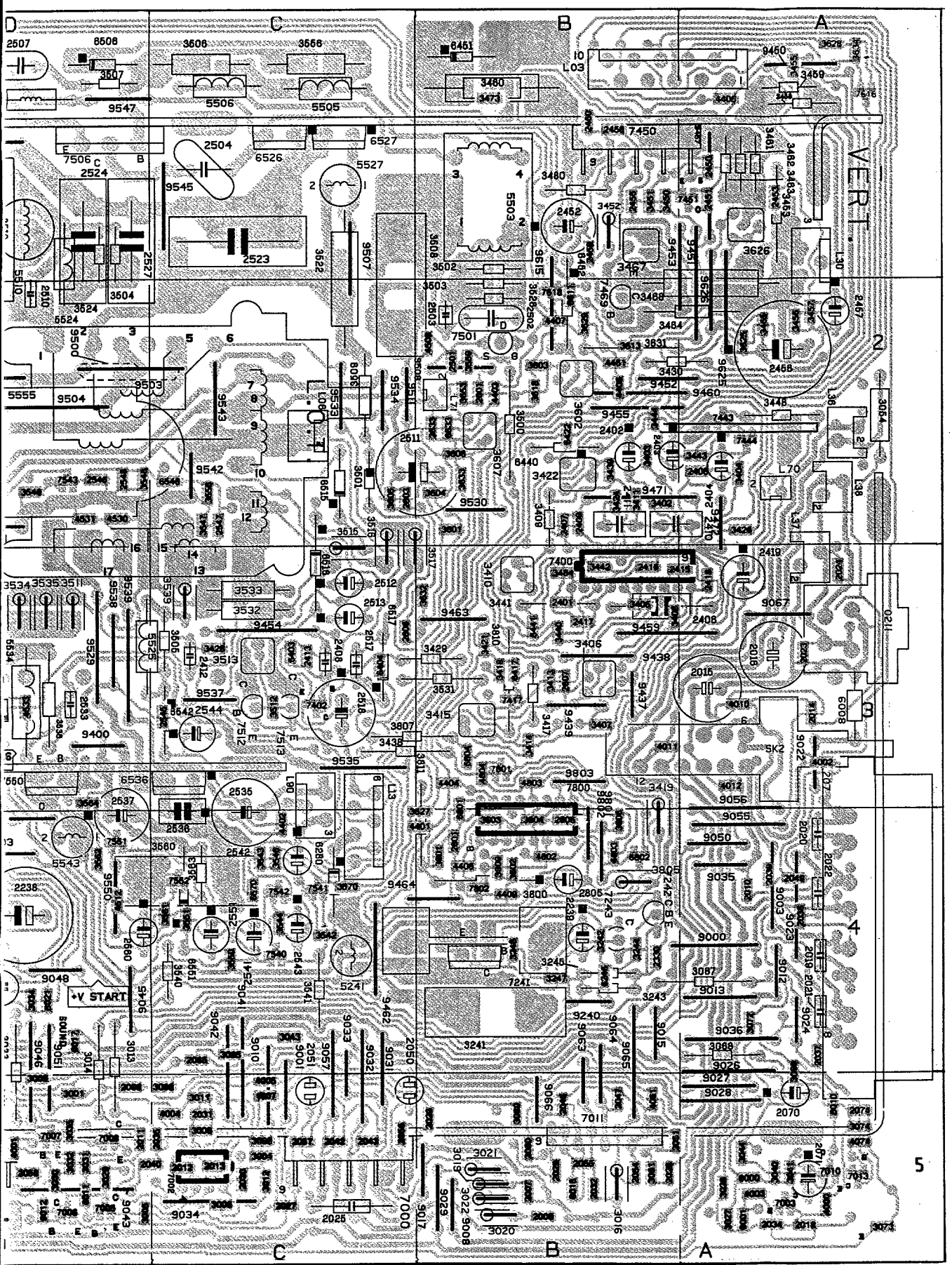

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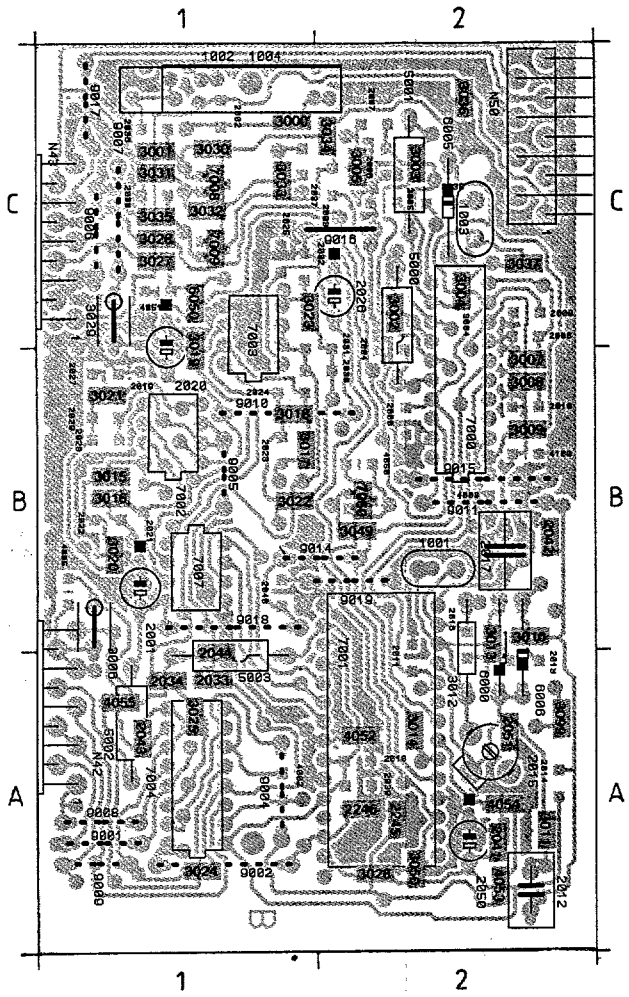

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1004	C1	2024	B1	3000	C1	3025	A1	4100	B2	9009	A1
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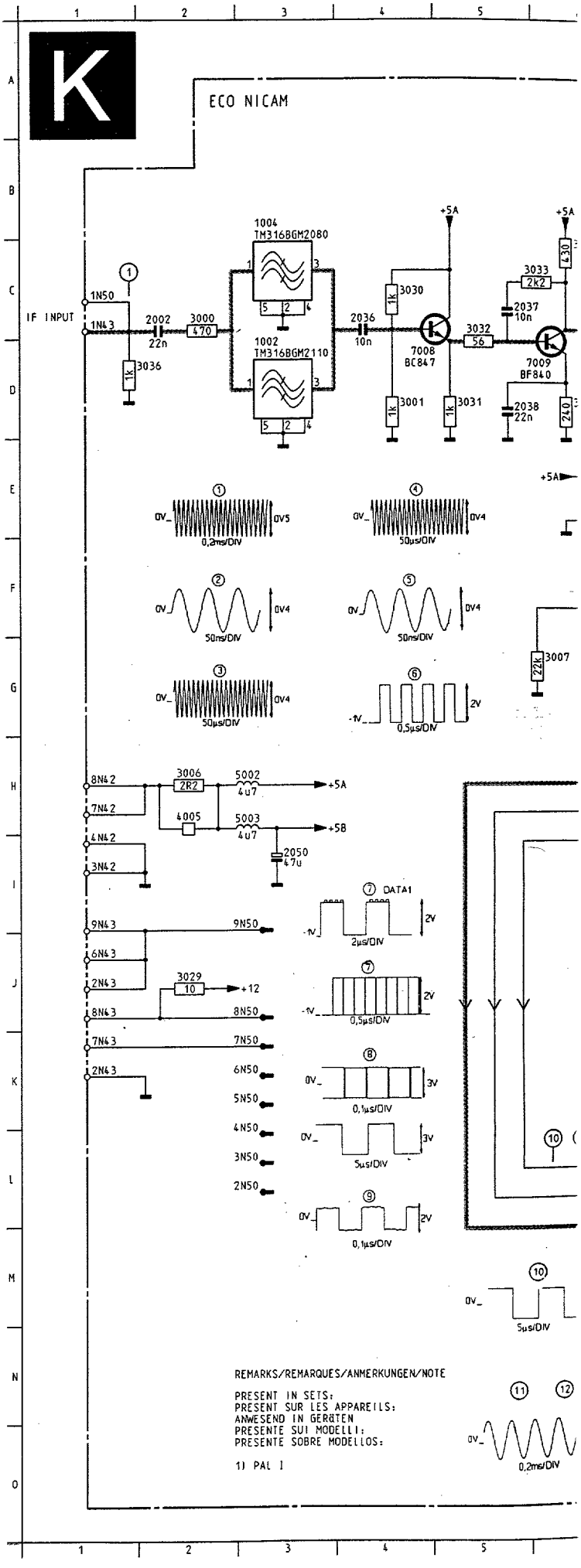

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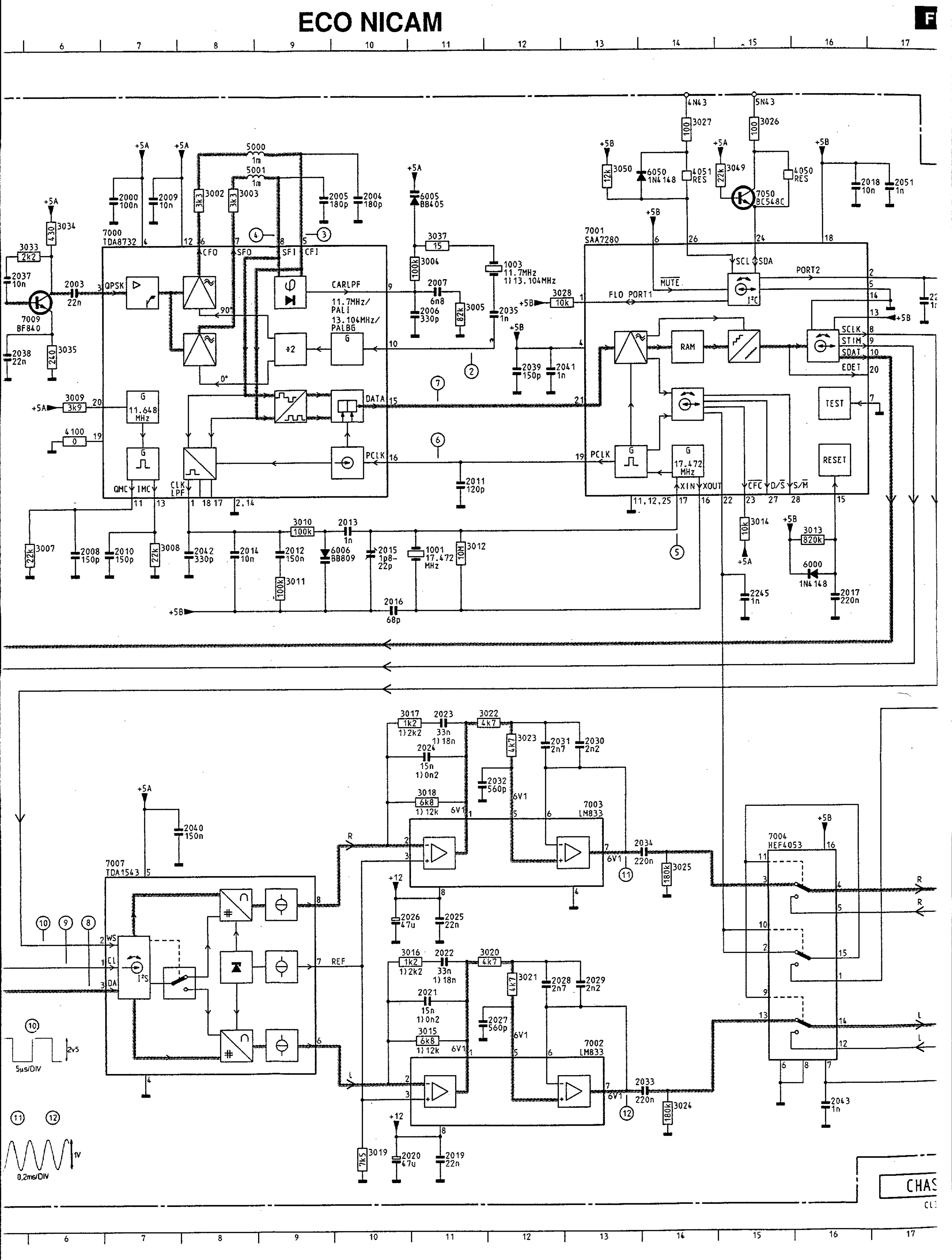
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3013
820k
6000
1N4148
2245
1n
2017
220n
7007
TDA1543
WS
CL
DA
I²S
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150n
3017
1k2
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2023
33n
1) 18n
3022
4k7
2024
15n
1) 0n2
3023
4k7
2031
2n7
2030
2n2
2032
560p
3018
6k8
1) 12k
6V1
7003
LM833
2034
220n
3025
180k
+12
2026
47u
2025
22n
3016
1k2
1) 2k2
2022
33n
1) 18n
3020
4k7
2021
15n
1) 0n2
3021
4k7
2028
2n7
2029
2n2
2027
560p
3015
6k8
1) 12k
7002
LM833
2033
220n
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180k
3019
7k5
2020
47u
2019
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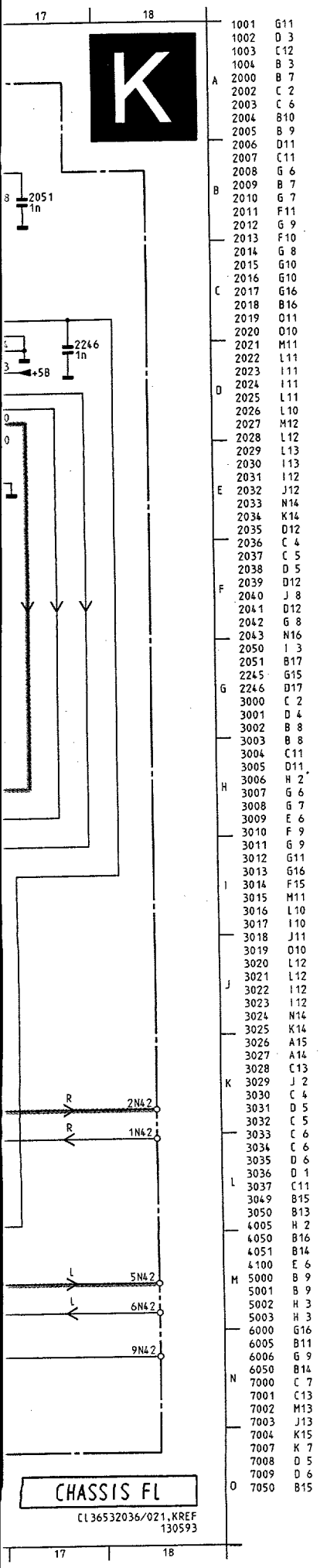
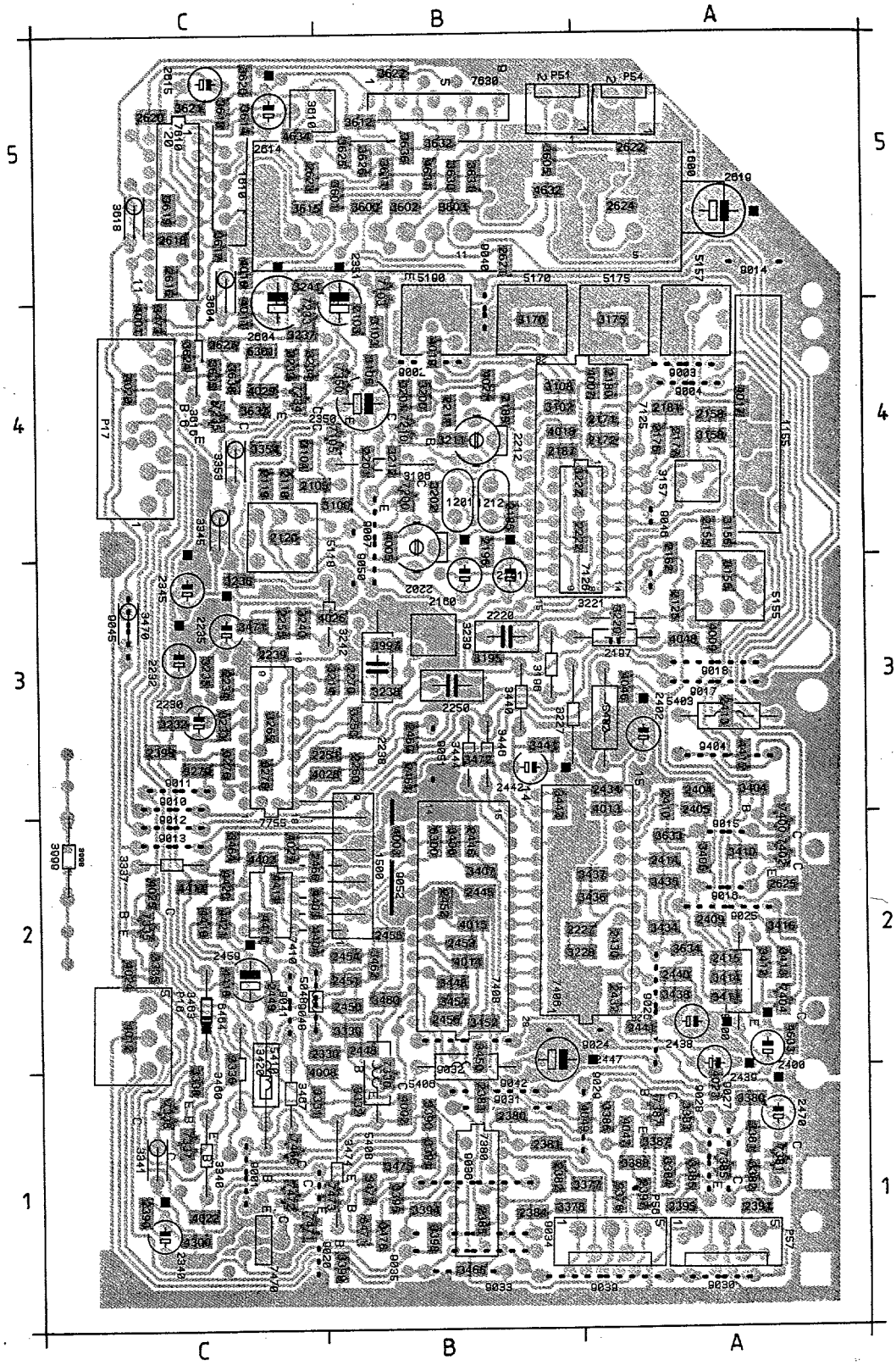
HEF4053
2043
1n
2v5
5µs/DIV
1V
0,2ms/DIV
CHAS

PIP panel





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P51	B5	2155	A4	2201	B4	2260	B3	2397	A1	2440	A2	2460	B3	2627	C4	3200	B4	3236	C3
P54	A5	2158	A4	2202	B4	2270	B3	2399	C3	2441	A2	2461	B3	3100	B4	3201	B4	3237	C4
P56	A1	2160	B3	2211	B4	2330	C2	2400	A2	2442	B3	2466	C2	3103	B4	3202	B4	3238	B3
P57	A1	2161	B3	2212	B4	2340	C1	2402	A3	2445	B2	2470	A1	3104	C4	3211	B4	3239	B3
1155	A4	2162	A3	2220	B3	2345	C3	2404	A3	2446	B2	2604	C4	3105	B4	3212	B4	3240	C3
1201	B4	2171	A4	2222	B4	2350	B4	2405	A2	2447	B2	2614	C5	3106	B4	3214	B3	3241	C5
1212	B4	2172	A4	2227	B2	2351	B4	2409	A2	2448	B2	2615	C5	3107	B4	3220	A3	3242	B3
1500	B2	2176	A4	2230	C3	2380	B1	2410	A3	2449	C2	2616	C5	3108	B4	3221	A3	3250	B3
1600	B5	2177	A4	2232	C3	2381	B1	2413	A3	2450	B2	2618	C5	3155	A3	3222	B4	3265	C3
1610	C5	2180	A4	2234	C3	2382	B1	2414	A2	2451	B2	2619	A5	3156	A4	3227	B3	3270	C3
2103	B4	2181	A4	2235	C3	2383	B1	2415	A2	2452	B2	2620	C5	3157	A4	3228	B2	3275	C3
2105	C4	2185	B4	2238	B3	2384	B1	2430	A2	2453	B2	2621	B5	3158	A4	3231	C3	3276	C3
2118	C4	2187	B4	2239	C3	2385	B1	2432	A2	2454	B2	2622	A5	3170	B4	3232	C3	3330	B2
2119	C4	2189	B4	2250	B3	2390	C1	2434	A3	2455	B2	2623	C5	3175	A4	3233	C4	3331	C1

PIP panel

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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
2009	B 7
2010	G 7
2011	F11
2012	G 9
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2036	C 4
2037	C 5
2038	D 5
2039	D12
2040	J 8
2041	D12
2042	G 8
2043	N16
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2051	B17
2245	G15
2246	O17
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3003	B 8
3004	C11
3005	D11
3006	H 2
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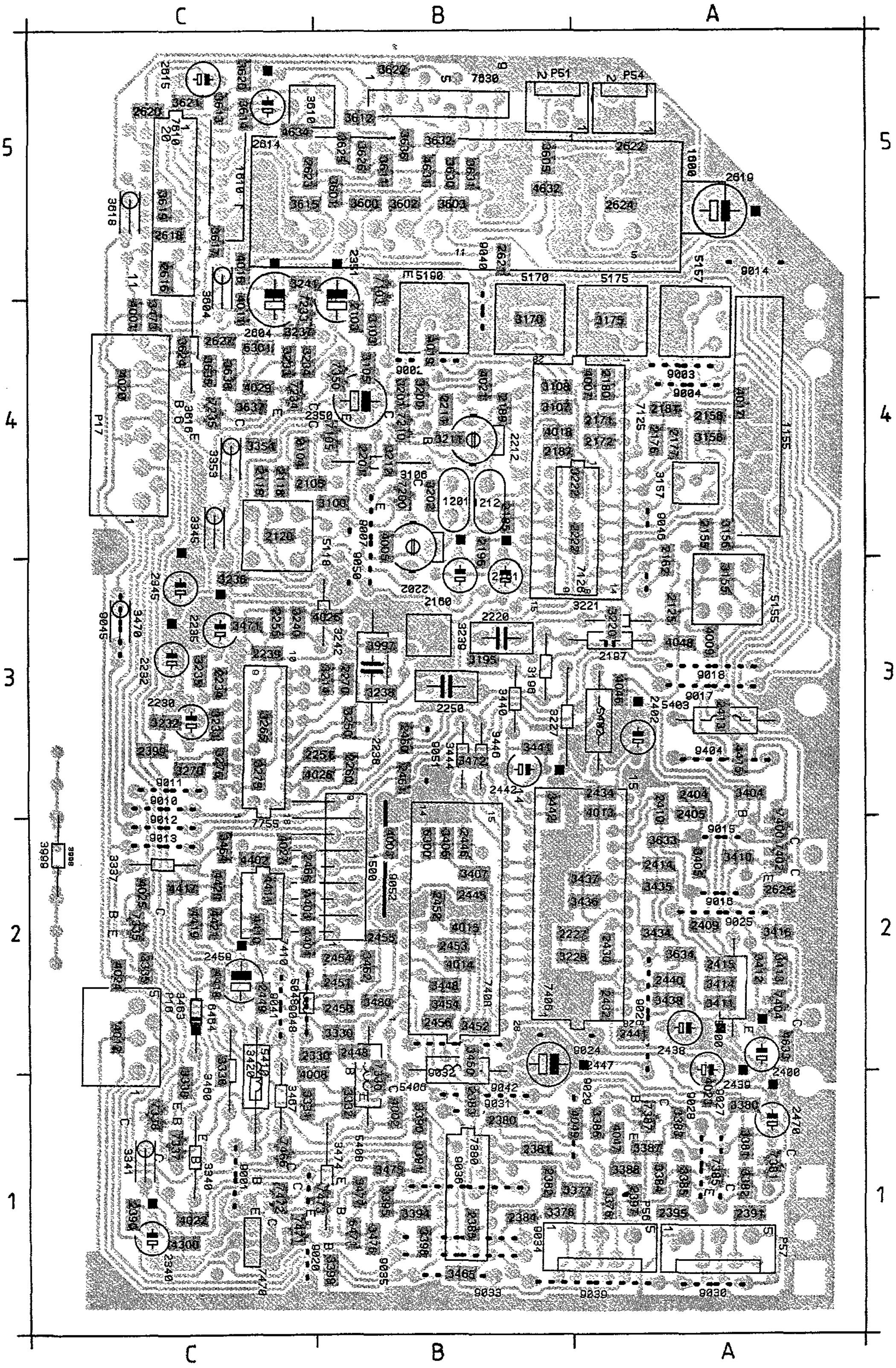

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P51	B5	2155	A4	2201	B4	2260	B3	2397	A1	2440	A2	2460	B3	2627	C4	3200	B4	3236	C3
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P56	A1	2160	B3	2211	B4	2330	C2	2400	A2	2442	B3	2466	C2	3103	B4	3202	B4	3238	B3
P57	A1	2161	B3	2212	B4	2340	C1	2402	A3	2445	B2	2470	A1	3104	C4	3211	B4	3239	B3
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2105	C4	2185	B4	2238	B3	2384	B1	2430	A2	2453	B2	2621	B5	3158	A4	3231	C3	3276	C3
2118	C4	2187	B4	2239	C3	2385	B1	2432	A2	2454	B2	2622	A5	3170	B4	3232	C3	3330	B2
2119	C4	2189	B4	2250	B3	2390	C1	2434	A3	2455	B2	2623	C5	3175	A4	3233	C4	3331	C1

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3337	C2	3997	B3	7755	C3
3338	C1	4001	C4	9001	C1
3340	C1	4002	B1	9002	B4
3341	C1	4003	B2	9003	A4
3345	C4	4005	B4	9004	A4
3353	C4	4007	A4	9007	B4
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3377	A1	4011	C4	9012	C2
3378	B1	4012	C2	9013	C2
3380	A1	4013	A3	9014	A5
3381	A1	4014	B2	9015	A2
3382	A1	4015	B2	9016	A2
3383	A1	4016	C5	9017	A3
3384	A1	4017	A4	9018	A3
3385	A1	4018	B4	9020	C1
3386	A1	4019	B4	9024	B2
3387	A1	4020	C4	9025	A2
3388	A1	4021	B4	9026	A2
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3399	B1	4027	C2	9032	B2
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3407	B2	4047	A1	9036	B1
3410	A2	4048	A3	9039	A1
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3412	A2	4300	C1	9041	C2
3413	A2	4402	C2	9042	B1
3414	A2	4403	C2	9045	C3
3416	A2	4404	C2	9046	A4
3420	C1	4410	C2	9048	C2
3434	A2	4411	C2	9050	B3
3435	A2	4415	A3	9051	B3
3436	A2	4417	C2	9052	B2
3437	A2	4418	C2	9404	A3
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3442	B3	4631	B5		
3444	B3	4632	B5		
3446	B3	4633	A2		
3448	B2	4634	C5		
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3452	B2	5118	C4		
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3462	B2	5170	B4		
3463	C2	5175	A4		
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3604	C4	7200	B4		
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3622	B5	7400	A2		
3624	C4	7402	A2		
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3630	B5	7408	B2		
3631	B5	7410	C2		
3632	B5	7466	C1		
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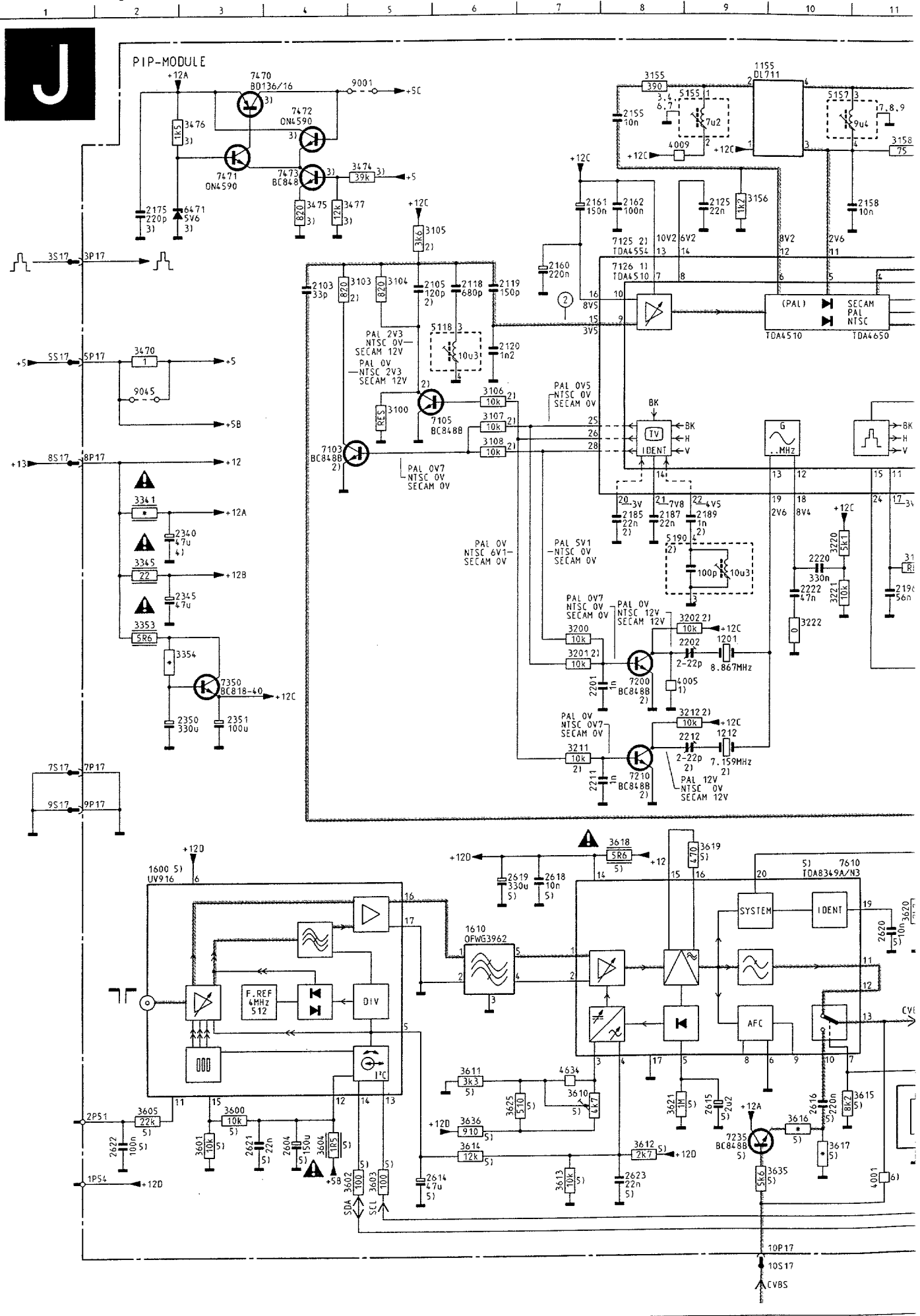

Image dans l'image

PIP processing
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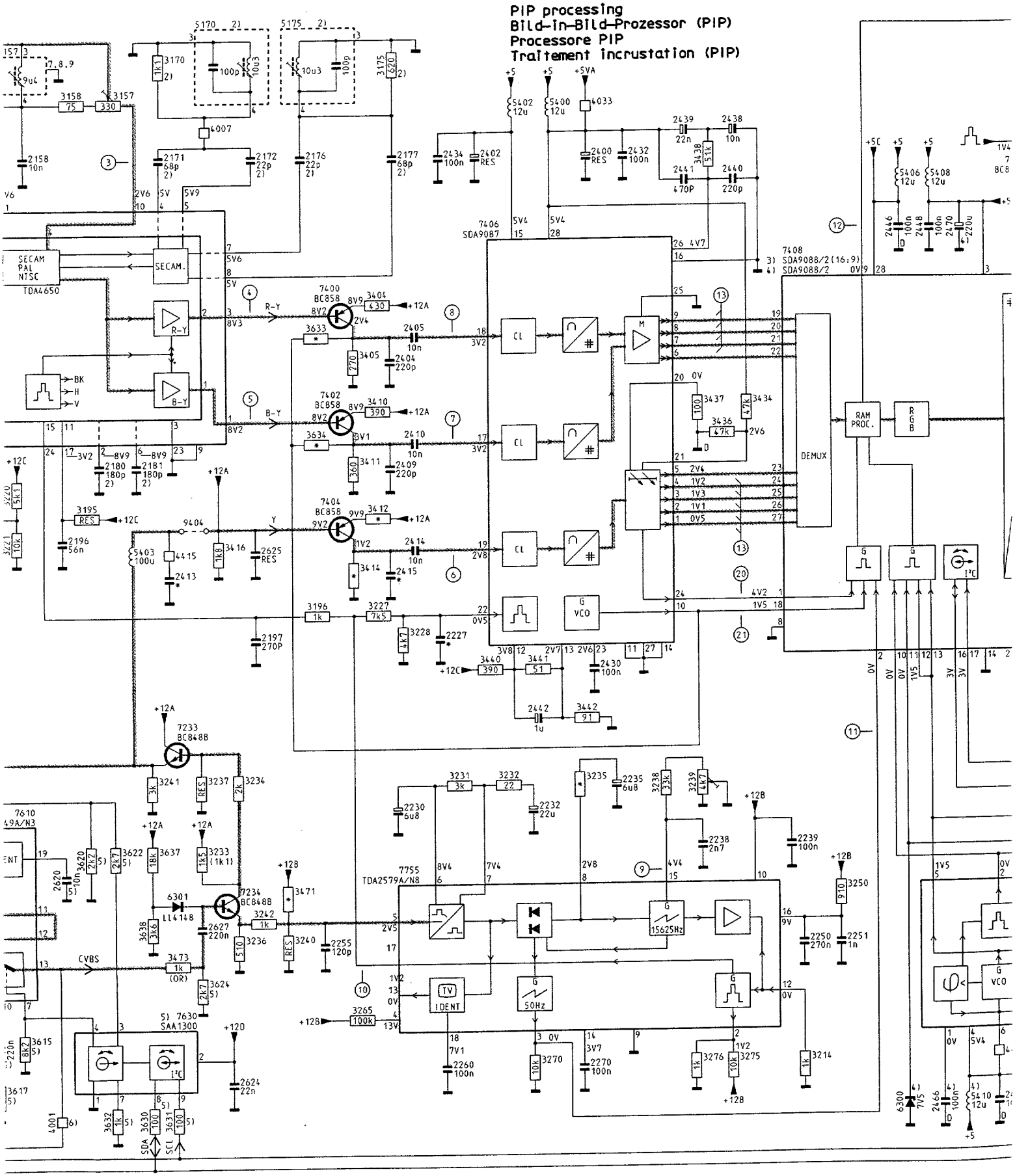
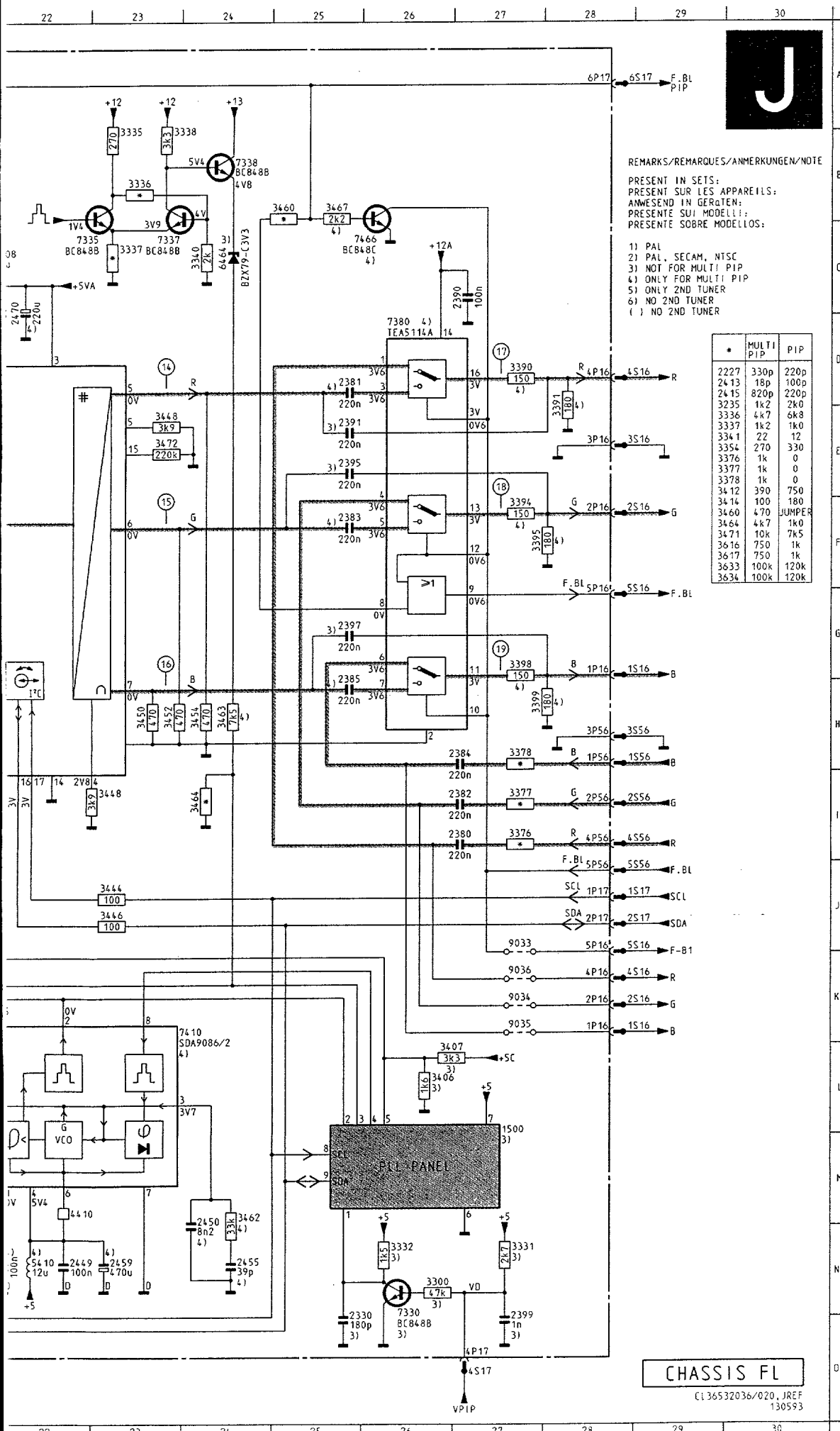
Processore PIP
Traitement incrustation (PIP)





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	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
C	2176	C14	3241	J12	6464 C24
	2177	C15	3242	L13	6471 C 3
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	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
D	2196	G11	3300	N26	7210 I 8
	2197	H13	3331	N27	7233 I12
	2201	H 7	3332	N26	7234 K13
	2202	H 9	3335	A23	7235 N 9
	2211	I 7	3336	B23	7330 N26
	2212	I 9	3337	C23	7335 C23
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	2230	J15	3345	G 2	7380 D26
	2232	J17	3353	G 2	7400 D14
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	2239	K20	3377	I27	7406 C16
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G	2351	I 3	3406	L26	7755 K15
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	2446	C21	3473	L12	
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	2466	N21	3601	N 3	
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	2604	N 4	3603	N 5	
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	3195	G11	3638	L12	
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	3200	H 7	4005	H 8	

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4009	B 8
4033	B17
4410	M22
4415	G12
4634	M 7
5118	D 5
5155	A 8
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5170	A13
5175	A14
5190	G 8
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5402	B16
5403	G12
5406	C21
5408	C21
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6464	C24
6471	C 3
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7126	C 8
7200	H 8
7210	I 8
7233	I 12
7234	K13
7235	N 9
7330	N26
7335	C23
7337	C23
7338	B24
7350	H 3
7380	D26
7400	D14
7402	E14
7404	G14
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7473	B 4
7610	J11
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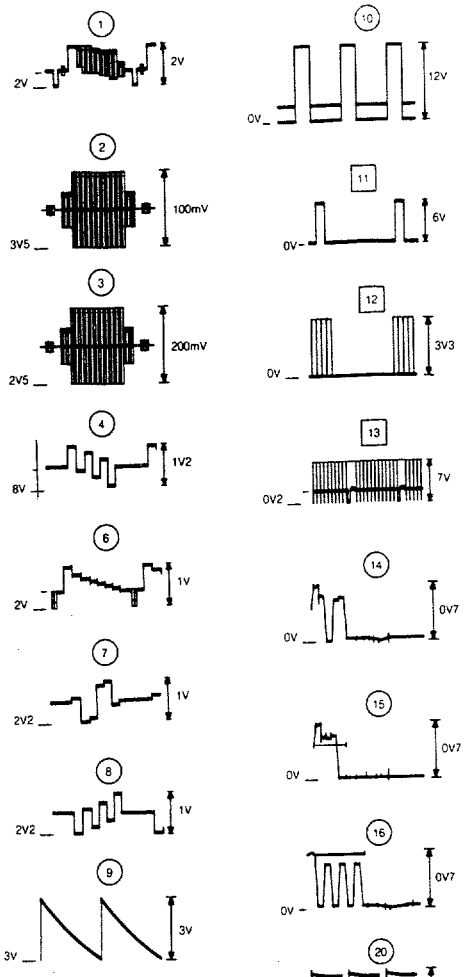

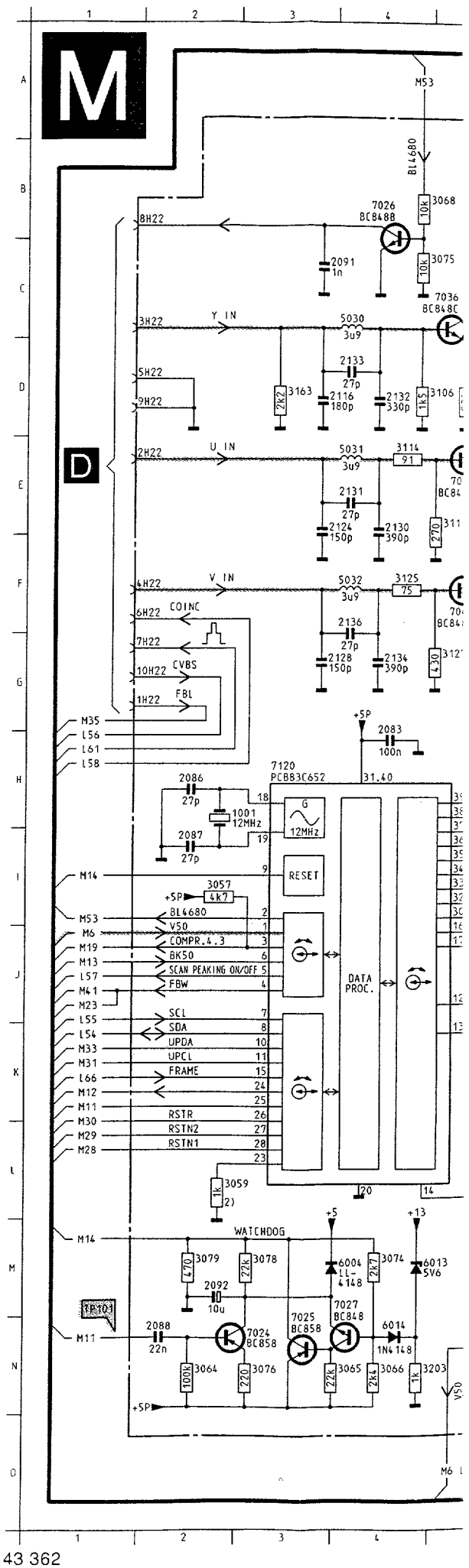
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3068
10k
3075
10k
7036
BC848C
3H22
Y IN
5030
3u9
2133
27p
5H22
9H22
2K2
3163
2116
180p
2132
330p
1K5
3106
2H22
U IN
5031
3u9
3114
91
2131
27p
2124
150p
2130
390p
270
4H22
V IN
5032
3u9
3125
75
6H22
COINC
2136
27p
2128
150p
2134
390p
7H22
10H22
CVBS
1H22
FBL
M35
L56
L61
L58
+5P
2083
100n
7120
PCB83C652
31.40
2086
27p
1001
12MHz
2087
27p
18
19
G
12MHz
M14
9
RESET
3057
4k7
+5P
M53
M6
M19
M13
L57
M41
M23
L55
L54
M33
M31
L66
M12
M11
M30
M29
M28
BL4680
VSO
COMPR.4.3
BK50
SCAN PEAKING ON/OFF
FBW
SCL
SDA
UPDA
UPCL
FRAME
RSTR
RSTN2
RSTN1
2
1
3
6
5
4
7
8
10
11
15
24
25
26
27
28
23
DATA
PROC.
20
14
3059
1k
2)
WATCHDOG
+5
+13
M14
3079
470
3078
22k
2092
10u
6004
LL-
4148
3074
2K7
6013
5V6
TP10
M11
2088
22n
7024
BC858
7025
BC858
7027
BC848
6014
1N4148
100k
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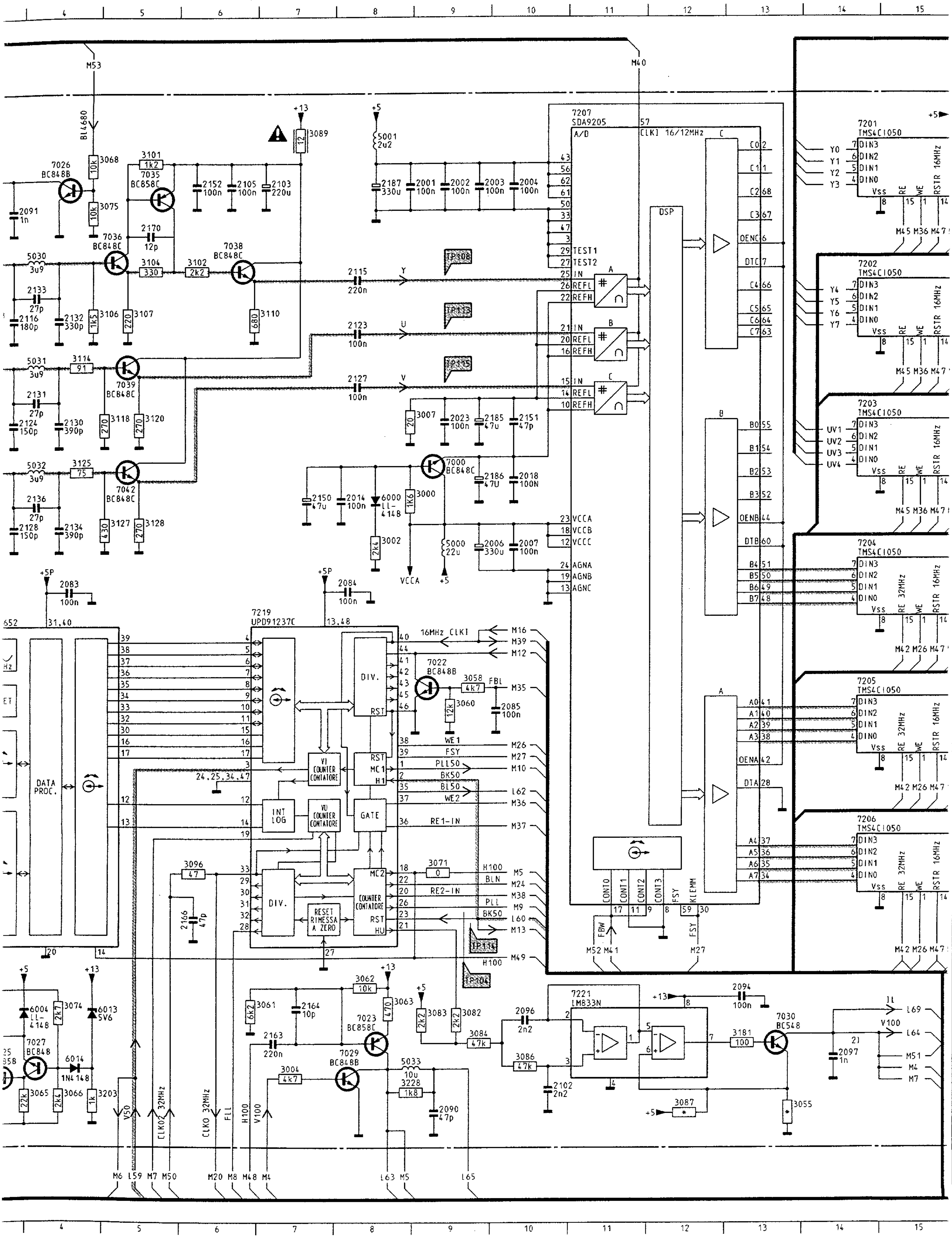
220
3076
22k
3065
2K2
3066
1k
3203
+5P
VSO
M6

LFR box



LFR
7207 SDA9205
A/D
CLKI 16/12MHz
DSP
TEST1
TEST2
IN
REFL
REFH
VCCA
VCCB
VCCC
AGNA
AGNB
AGNC
OENC
DTC
OENB
DTB
OENA
DTA
CONT0
CONT1
CONT2
CONT3
FSY
KLEMM
7201 TMS4C1050
7202 TMS4C1050
7203 TMS4C1050
7204 TMS4C1050
7205 TMS4C1050
7206 TMS4C1050
DIN3
DIN2
DIN1
DIN0
Vss
RE
WE
RSTR 16MHz
32MHz
7219 UPD91237C
DIV.
RST
VI COUNTER CONTATORE
VU COUNTER CONTATORE
INT LOG
GATE
COUNTER CONTATORE
RESET RIMESSA A ZERO
DATA PROC.
16MHz CLKI
7022 BC848B
FBL
WE1
FSY
PLL50
BK50
BL50
WE2
RE1-IN
H100
BLN
RE2-IN
PLL
BK50
7221 LM833N
7030 BC548
7026 BC848B
7035 BC858C
7036 BC848C
7038 BC848C
7039 BC848C
7042 BC848C
7000 BC848C
7027 BC848
7023 BC858C
7029 BC848B
6000 LL-4148
6004 LL-4148
6013 5V6
6014 1N4148
BL4680
TP108
TP113
TP115
TP114
TP104
VCCA
V50
CLK02 32MHz
CLK0 32MHz
FLL
H100
V100
M53
M40
M16
M39
M12
M35
M26
M27
M10
L62
M36
M37
M5
M24
M38
M9
L60
M13
M49
M52
M41
M27
L69
L64
M51
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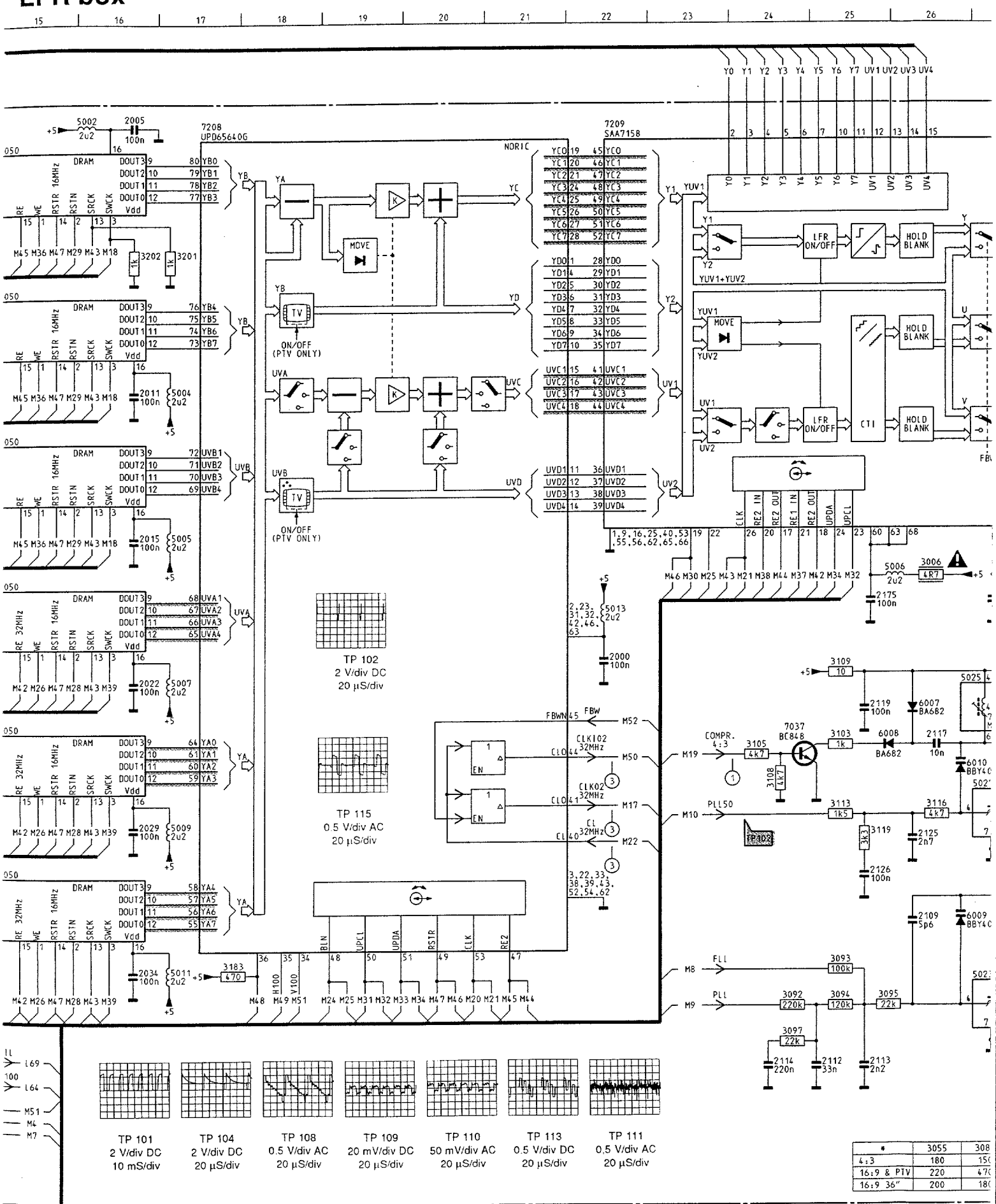
M4
L63
M5
L65

LFR box



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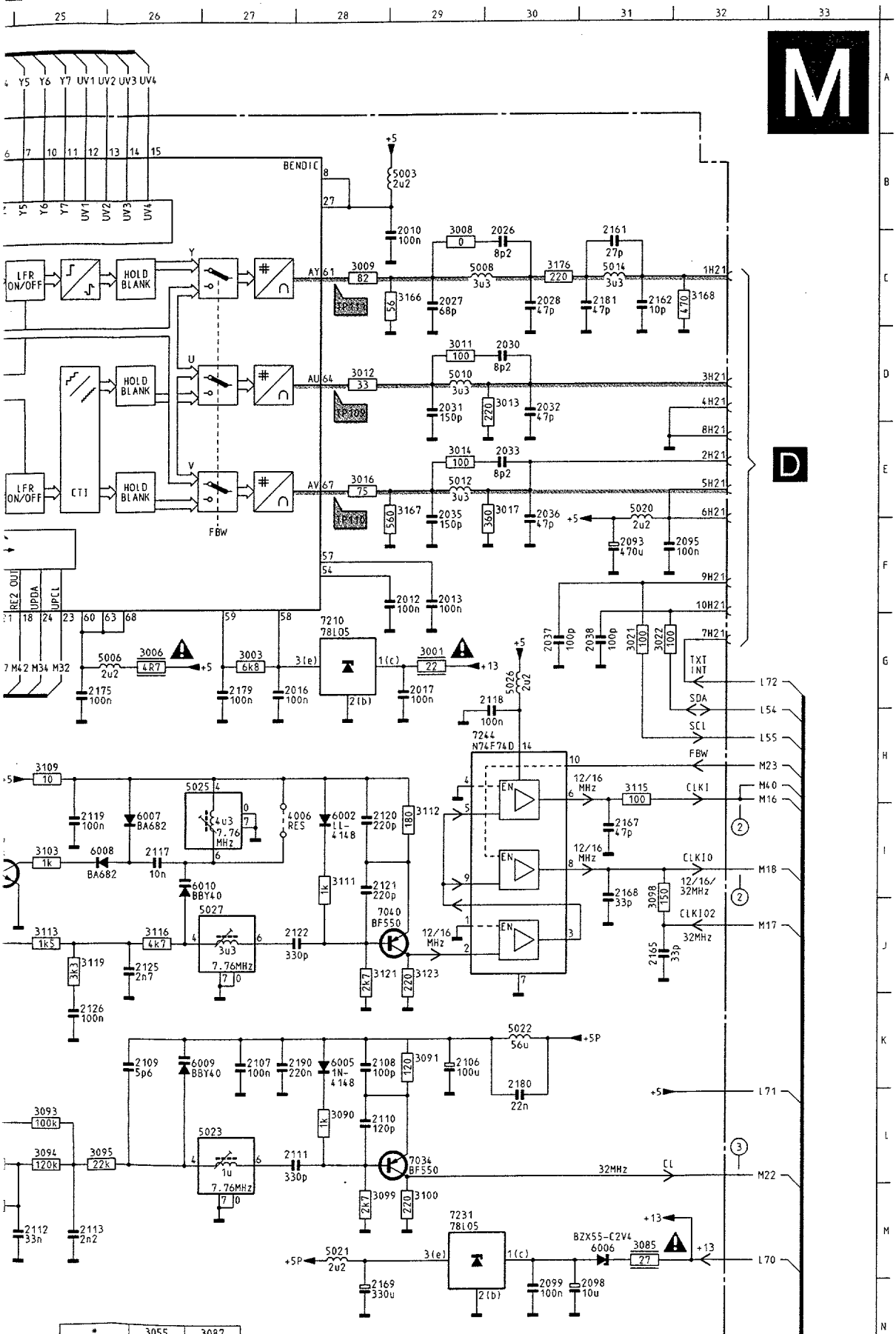
4:3	180	15(
16:9 & PTV	220	47(
16:9 36"	200	18(

LFR box



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4:3	180	150
16:9 & PIV	220	470
16:9 36"	200	180

CHASSIS FL

CL36532036/023.MREF
130593

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	2001	B 9	3055	N13	7030	M13
	2002	B 9	3057	I 2	7034	L29
A	2003	B 9	3058	I 9	7035	B 5
	2004	B10	3059	L 2	7036	C 5
	2005	B16	3060	I 9	7037	I24
	2006	G 9	3061	M 6	7038	C 6
	2007	G10	3062	M 8	7039	E 5
	2010	C29	3063	M 8	7040	J29
	2011	E16	3064	N 2	7042	F 5
	2012	F29	3065	N 4	7120	H 3
B	2013	F29	3066	N 4	7201	B14
	2014	F 8	3068	B 4	7202	D14
	2015	G16	3071	K 9	7203	E14
	2016	G27	3074	M 4	7204	G14
	2017	G29	3075	C 4	7205	I14
	2018	F10	3076	N 3	7206	K14
	2022	H16	3078	M 3	7207	B11
	2023	E 9	3079	M 2	7208	B17
C	2026	C30	3082	M 9	7209	B22
	2027	C29	3083	M 9	7210	G28
	2028	C30	3084	M 9	7219	H 6
	2029	J16	3085	M31	7221	M11
	2030	D30	3086	N10	7231	M29
	2031	D29	3087	N12	7244	H29
	2032	D30	3089	B 7		
D	2033	E30	3090	L28		
	2034	L16	3091	K29		
	2035	F29	3092	L24		
	2036	F30	3093	L25		
	2037	G30	3094	L25		
	2038	G31	3095	L25		
	2083	H 4	3096	K 6		
	2084	H 8	3097	M24		
E	2085	I10	3098	I31		
	2086	H 2	3099	M28		
	2087	I 2	3100	M29		
	2088	N 2	3101	B 5		
	2090	N 9	3102	C 6		
	2091	C 3	3103	I25		
	2092	M 2	3104	C 5		
F	2093	F31	3105	I24		
	2094	M13	3106	D 4		
	2095	F32	3107	D 5		
	2096	M10	3108	J24		
	2097	N14	3109	H25		
	2098	N31	3110	D 7		
	2099	N30	3111	I28		
	2102	N10	3112	I29		
G	2103	B 7	3113	J25		
	2105	B 6	3114	E 4		
	2106	K29	3115	H31		
	2107	K27	3116	J26		
	2108	K28	3118	E 5		
	2109	K26	3119	J25		
	2110	L28	3120	E 5		
	2111	L28	3121	J28		
H	2112	M25	3123	J29		
	2113	M25	3125	F 4		
	2114	M24	3127	G 5		
	2115	D 8	3128	G 5		
	2116	D 3	3163	D 3		
	2117	I26	3166	C29		
	2118	G30	3167	E29		
I	2119	I25	3168	C32		
	2120	I28	3176	C30		
	2121	I28	3181	M13		
	2122	J28	3183	L17		
	2123	D 8	3201	C17		
	2124	E 3	3202	C16		
	2125	J26	3203	N 4		
	2126	K25	3228	N 8		
J	2127	E 8	4006	I27		
	2128	G 3	5000	G 9		
	2130	E 4	5001	B 8		
	2131	E 4	5002	B16		
	2132	D 4	5003	B29		
	2133	D 4	5004	E17		
	2134	G 4	5005	G17		
K	2136	F 4	5006	G26		
	2150	F 7	5007	H17		
	2151	E10	5008	C29		
	2152	B 6	5009	J17		
	2161	C31	5010	D29		
	2162	C31	5011	L17		
	2163	M 7	5012	E29		
	2164	M 7	5013	G22		
L	2165	J31	5014	C31		
	2166	L 6	5020	E31		
	2167	I31	5021	M28		
	2169	N28	5022	K30		
	2170	C 5	5023	L27		
	2175	G25	5025	H26		
	2179	G27	5026	G30		
M	2180	K30	5027	J27		
	2181	C31	5030	C 4		
	2185	E 9	5031	E 4		
	2186	F 9	5032	F 4		
	2187	B 8	5033	N 8		
	2190	K27	6000	F 8		
	3000	F 9	6002	I28		
	3001	G29	6004	M 4		
N	3002	G 8	6006	M31		
	3003	G27	6007	I26		
	3004	N 7	6008	I25		
	3006	G26	6009	K26		
	3007	E 9	6010	I26		
	3008	C29	6013	M 4		
	3009	C28	6014	N 4		
	3011	D29	7000	F 9		
O	3012	D28	7022	I 9		
	3013	D30	7023	M 8		
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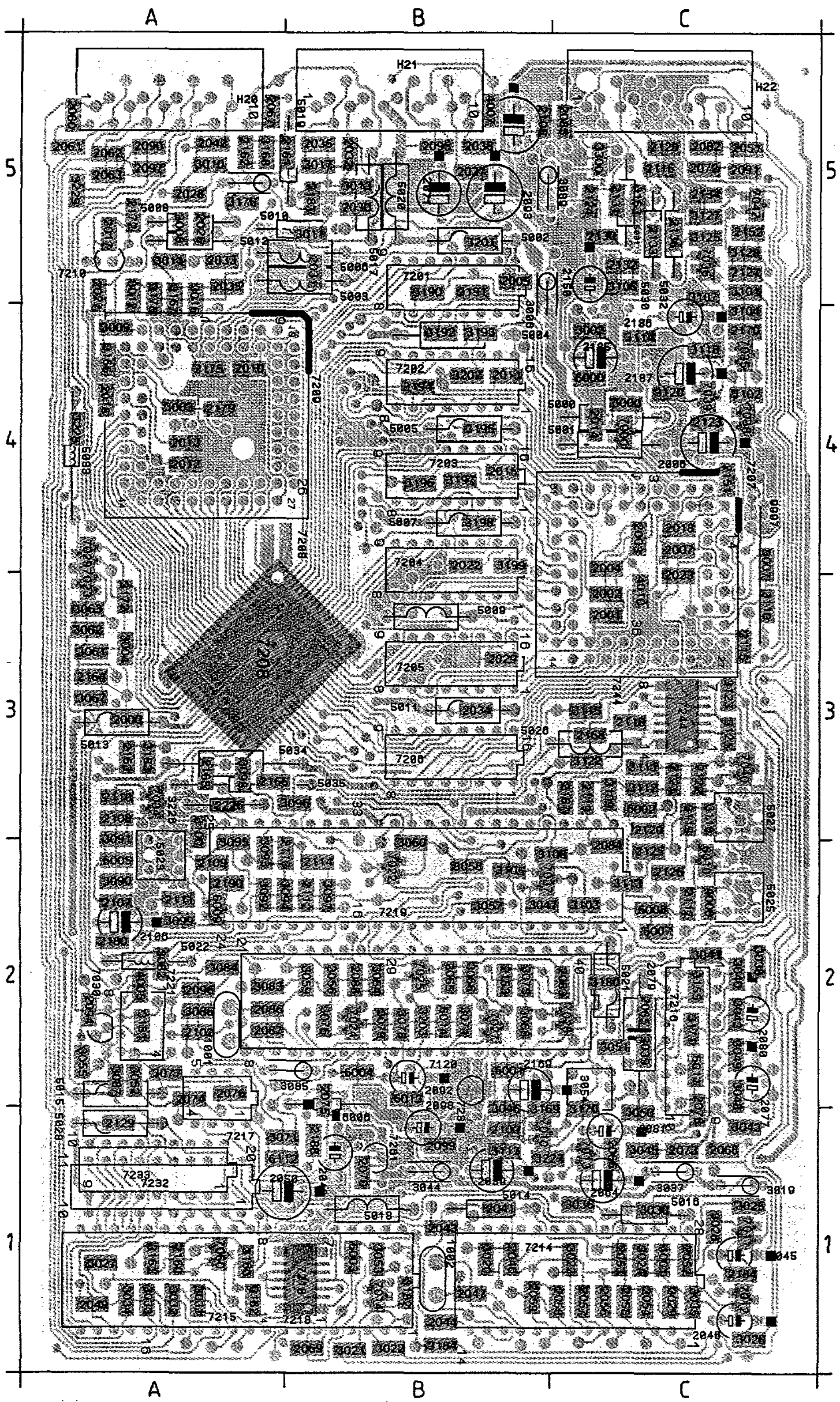
LFR Box



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H22 C5
1001 A2
1002 B1
2000 A3
2001 C3
2002 C3
2003 C4
2004 C4
2005 B5
2006 C4
2007 C4
2010 A4
2011 B4
2012 A4
2013 A4
2014 C4
2015 B4
2016 A4
2017 A5
2018 C4
2022 B4
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2039 B1
2040 B1
2041 B1
2042 A5
2043 B1
2044 B1
2045 C1
2046 C1
2047 B1
2048 B1
2049 A1
2050 A1
2051 C5
2052 C1
2053 C1
2054 C1
2055 C1
2056 C1
2057 C1
2058 C1
2059 B1
2060 A5
2062 A5
2063 A5
2064 C1
2065 C2
2066 C1
2067 A5
2068 C1
2069 B1
2070 B1
2071 B5
2072 C5
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2074 A2
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2076 A2
2077 C2
2078 C1
2079 C2
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2082 C5
2083 C2
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2088 B2
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2091 C5
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2093 B5
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2096 A2
2097 A5
2098 B1
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2110 A3
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2113 A2
2114 B2
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2190 A2
2226 A3
3000 C4
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3003 A4
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3013 B5
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3033 A1
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3035 C1
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3037 C1
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3040 C2
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3062 A3
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3064 B2
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3066 B2
3067 A3
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3091 A3
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3095 A2
3096 B3
3097 B2
3098 A3
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3104 C4
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3111 C3
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3116 C3
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3118 C4
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3125 C5
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3227 B1
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3229 A5
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4005 A2
4006 C2
4007 B5
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5001 C4
5002 B5
5003 B5
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6009 A2
6010 C2
6011 C2
6013 B2
6014 B2
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7000 C4
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7011 C1
7012 C1
7013 C1
7014 B1
7022 B2
7023 A3
7024 B2
7025 B2
7026 C2
7027 B2
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7034 A3
7035 C4
7036 C5
7037 B2
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7040 C3
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7217 A2
7218 B1
7219 B2
7221 A2
7231 B2
7232 A1
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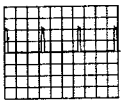
7261 B1
9997 C4

LFR Box

L

LFR BOX TXT-DECODER
DECODEUR TXT
DECODIFICATORE TELEVIDEO



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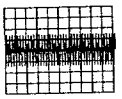
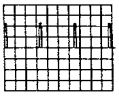
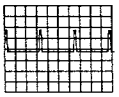
20 µS/div



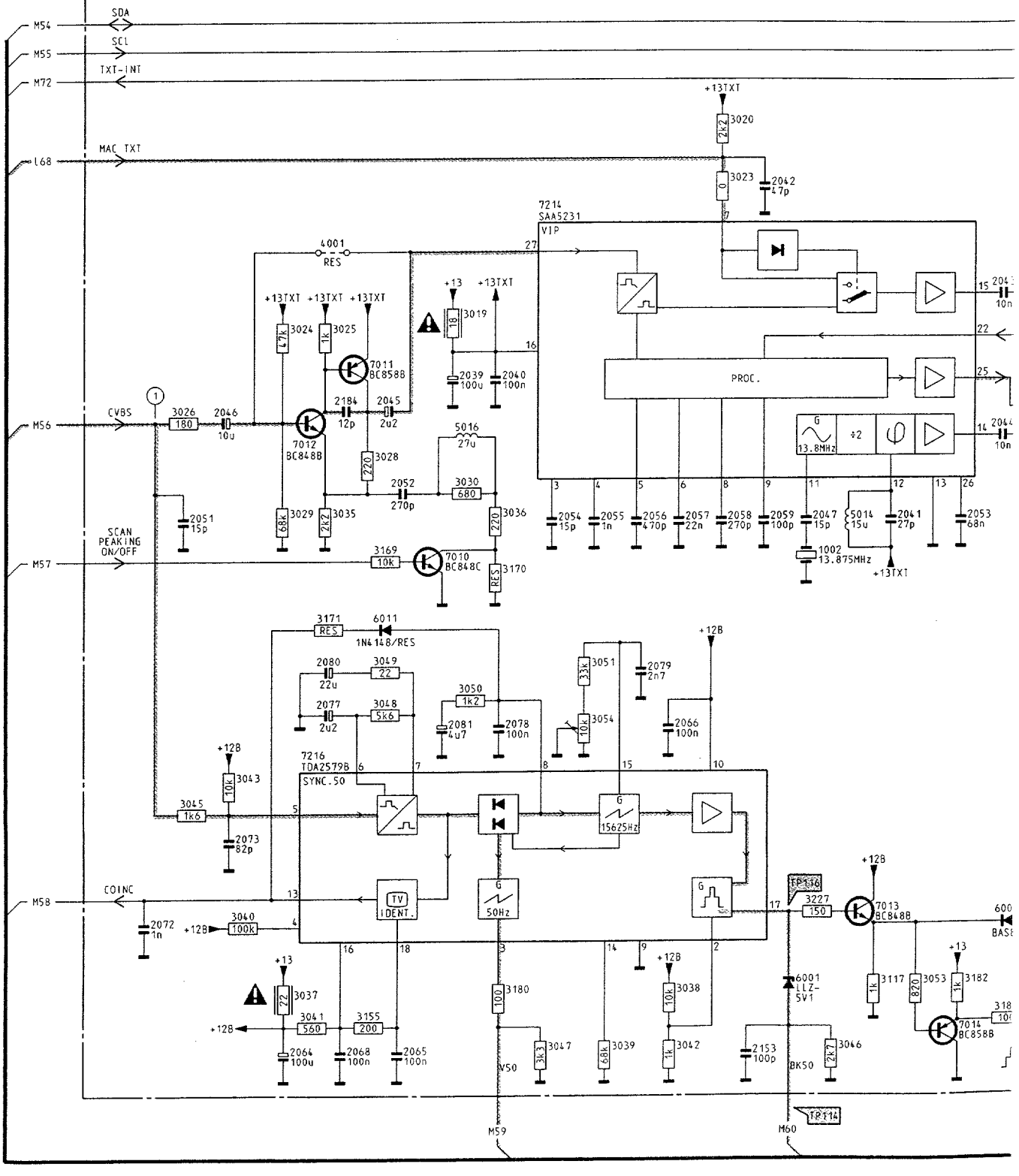
TP 103
0.5 V/div AC
2 µS/div



TP 114
2 V/div DC
20 µS/div



TP 116
5 V/div AC
20 µS/div



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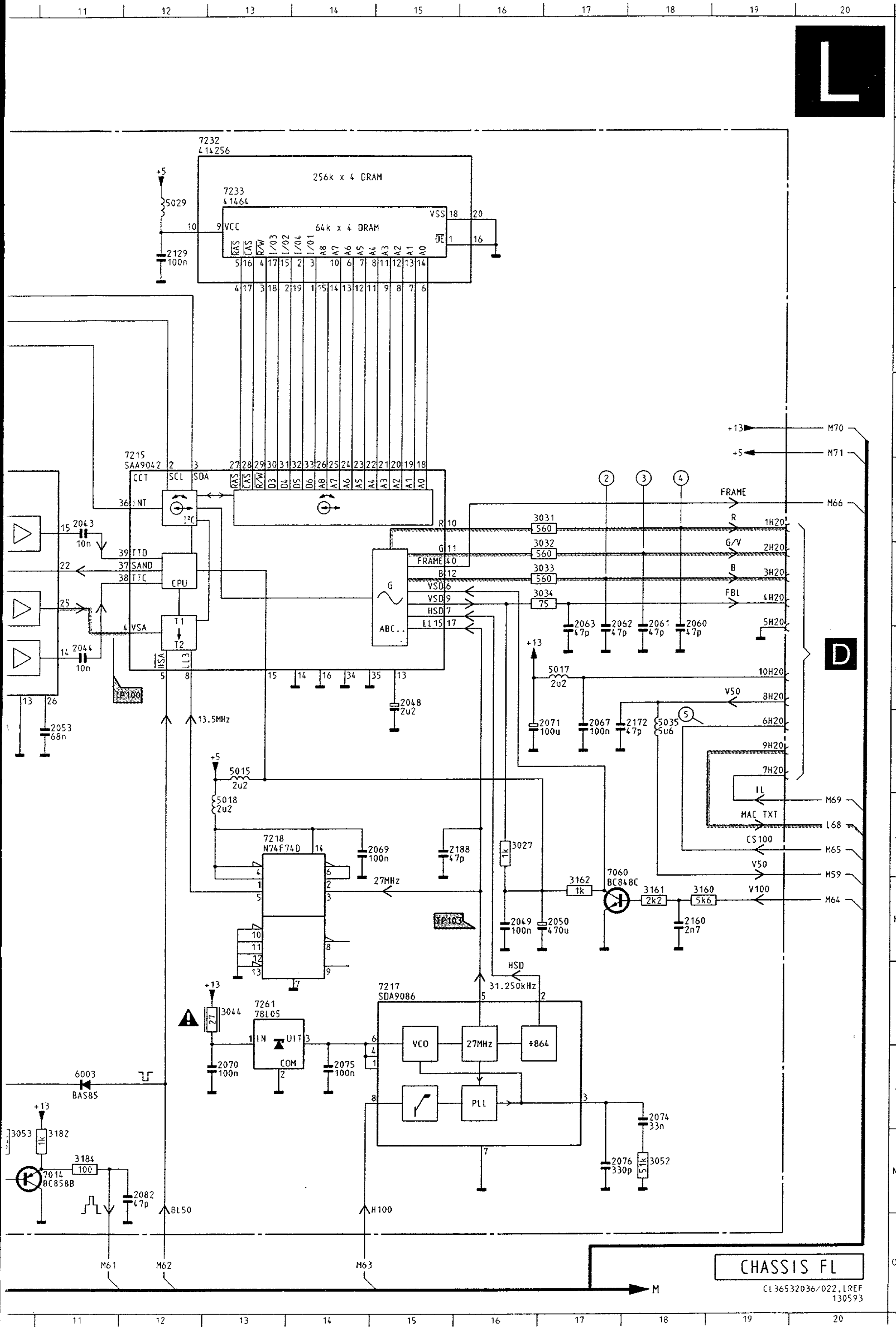

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2044	H11		
2045	H 5		
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2047	I 9		
2048	H15		
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2050	K17		
2051	I 3		
2052	H 5		
2053	I11		
2054	I 6		
2055	I 7		
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2057	I 8		
2058	I 8		
2059	I 9		
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2061	H18		
2062	H17		
2063	H17		
2064	N 4		
2065	N 5		
2066	K 8		
2067	I17		
2068	N 4		
2069	J14		
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2074	M18		
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2076	N17		
2077	K 4		
2078	K 6		
2079	J 7		
2080	J 4		
2081	K 5		
2082	N12		
2129	C12		
2153	N 8		
2160	K18		
2172	I18		
2184	H 4		
2188	J15		
3019	G 5		
3020	E 8		
3023	E 8		
3024	G 4		
3025	G 4		
3026	H 2		
3027	J16		
3028	H 4		
3029	I 4		
3030	H 5		
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3182	M11		
3184	N11		
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5017	H17		
5018	J13		
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6011	J 5		
7010	I 5		
7011	G 4		
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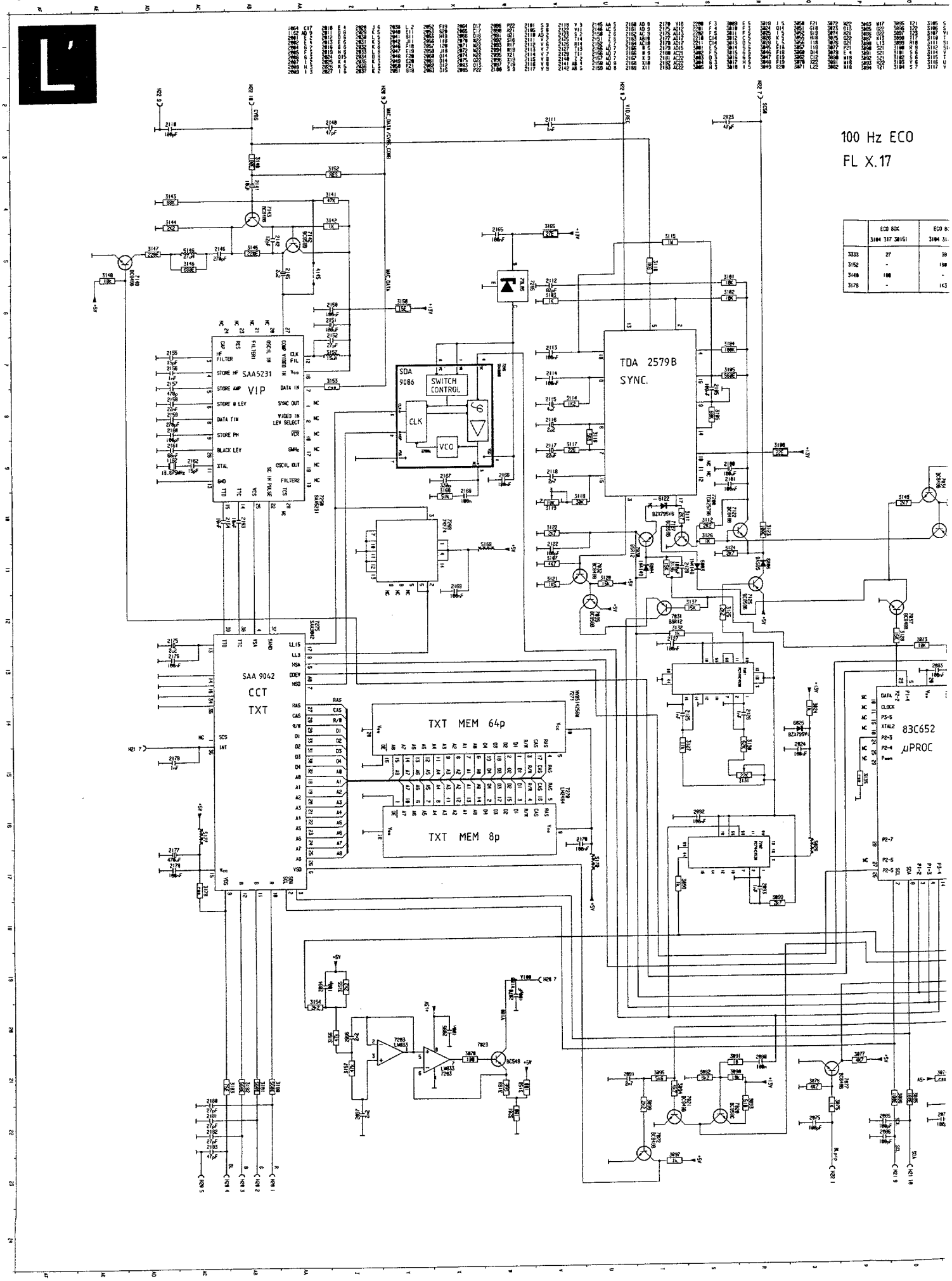
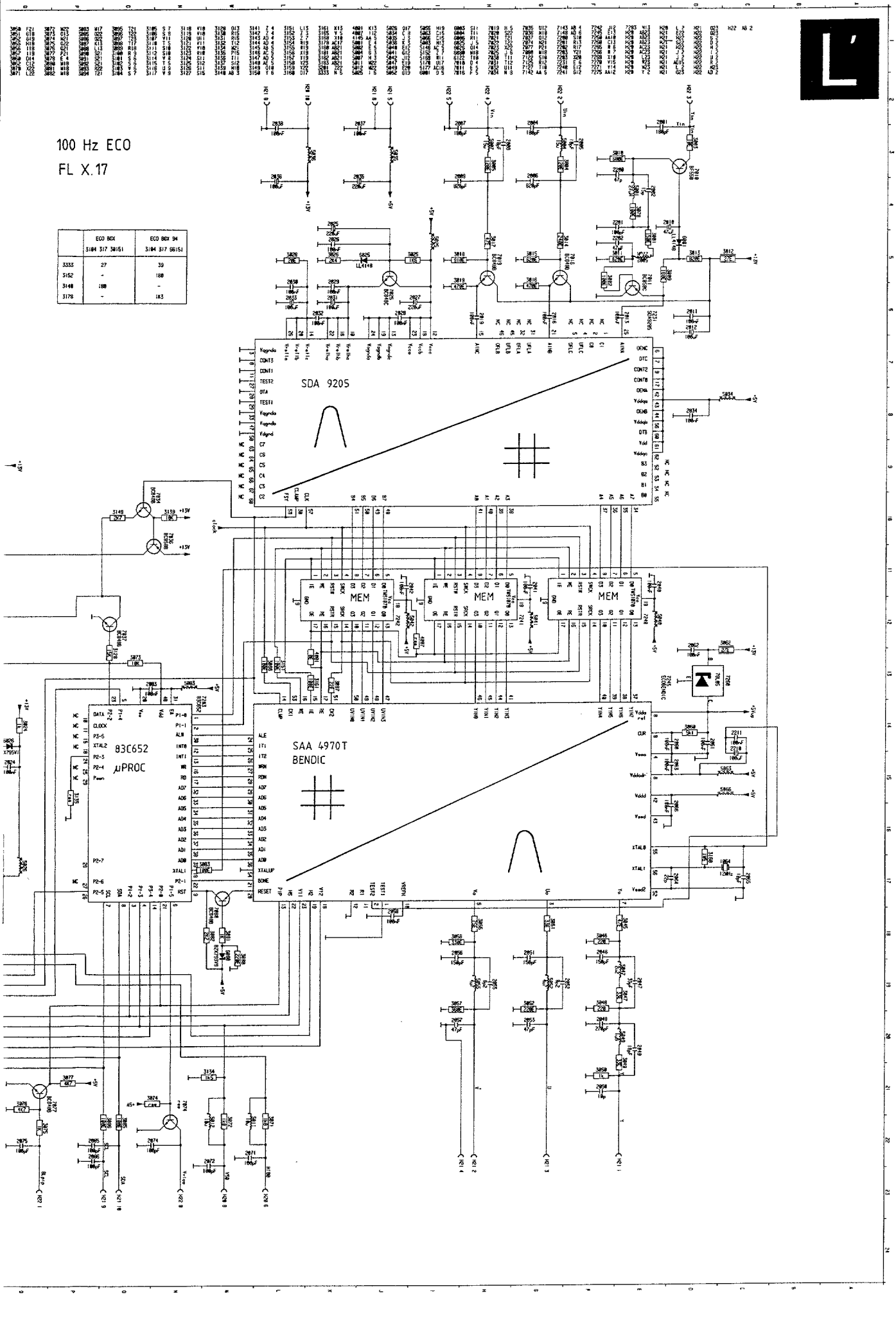
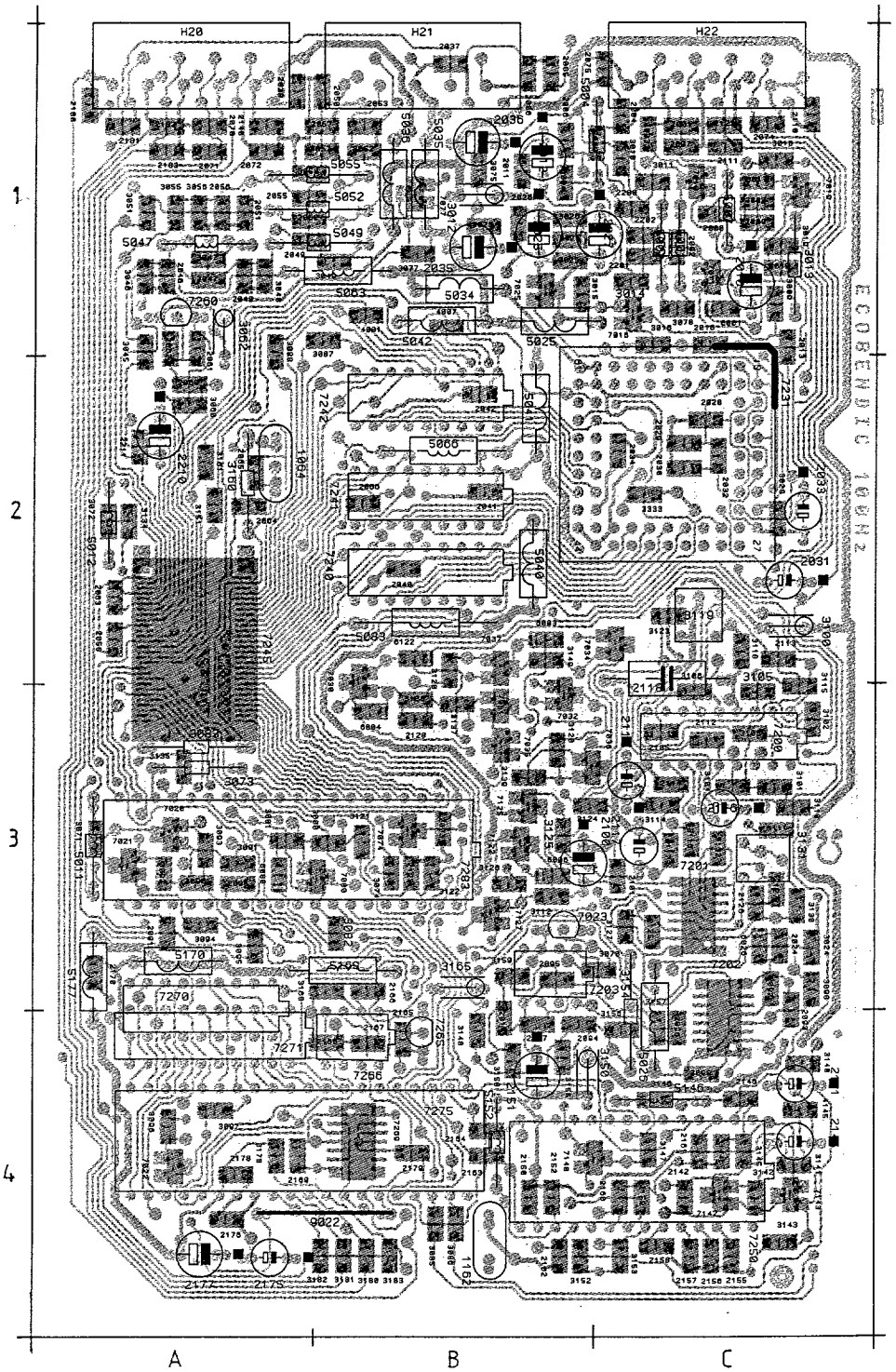
7216	K 4		

100 Hz / TXT


100 Hz ECO
FL X.17
TDA 2579B
SYNC.
SAA5231
VIP
SAA 9042
CCT
TXT
SDA
9086
SWITCH
CONTROL
CLK
VCO
TXT MEM 64p
TXT MEM 8p
83C652
µPROC


100 Hz ECO
FL X.17
SDA 9205
SAA 4970T
BENDIC
83C652
µPROC
MEM
MEM
MEM

100 Hz / TXT



H20 A1	2013 C1	2037 B1	2058 A2	2090 A3	2115 C3	2151 B4	2169 A4	3004 B1	3143 C4
H21 B1	2016 C1	2038 A1	2060 A2	2091 A3	2116 C3	2152 B4	2170 A3	3005 C1	3144 C4
H22 C1	2019 C1	2040 B2	2061 A1	2092 C3	2117 C3	2155 C4	2175 A4	3009 C1	3145 C4
1064 A2	2024 C3	2041 B2	2062 A1	2093 C3	2118 C2	2156 C4	2176 A4	3010 C1	3146 C4
1162 B4	2025 B1	2042 B2	2063 A2	2094 B4	2122 B3	2157 C4	2177 A4	3011 C1	3147 C4
2001 C1	2026 B1	2046 A1	2064 A2	2095 B3	2123 C1	2158 C4	2178 A4	3012 B1	3148 B4
2002 C1	2027 C1	2047 A1	2065 A2	2096 C4	2125 C3	2159 C4	2179 B4	3013 C1	3149 B2
2004 C1	2028 C2	2048 A1	2066 B2	2097 B4	2126 C3	2160 C4	2181 A1	3014 C1	3150 B4
2005 C1	2029 C2	2049 A1	2070 A1	2100 B3	2127 C3	2161 C4	2182 A1	3015 B1	3151 A2
2006 B1	2030 C2	2050 B1	2071 A1	2101 C3	2128 B3	2162 B4	2183 A1	3016 C1	3152 B4
2007 C1	2031 C2	2051 A1	2072 A1	2105 C3	2140 A1	2163 B4	2200 C1	3017 C1	3153 C4
2008 C1	2032 C2	2052 A1	2074 C1	2110 C1	2141 C4	2164 B4	2201 C1	3018 C1	3154 C4
2009 C1	2033 C2	2053 B1	2075 C1	2111 C1	2142 C4	2165 B4	2202 C1	3019 C1	3155 B4
2010 C1	2034 C2	2055 A1	2083 B3	2112 C3	2145 C4	2166 B3	2210 A2	3024 C3	3156 C4
2011 B1	2035 B1	2056 A1	2085 B1	2113 C2	2146 C4	2167 B4	2211 A2	3025 B1	3157 C4
2012 B1	2036 B1	2057 B1	2086 B1	2114 C3	2150 B4	2168 B4	3003 C1	3026 B1	3158 B4

3028 C2	3159 B3
3045 A1	3160 A2
3046 A1	3161 A2
3047 A1	3165 B3
3048 A1	3168 B3
3049 B1	3178 A4
3050 A1	3180 B4
3051 A1	3181 B4
3052 B1	3182 B4
3055 A1	3183 B4
3056 A1	3201 B4
3057 B1	3333 C2
3060 A2	4001 B1
3062 A1	4007 B1
3070 C3	4145 C4
3071 A3	5001 C1
3072 A2	5002 C1
3073 A3	5004 C1
3074 B3	5007 C1
3075 B1	5011 A3
3076 B1	5012 A2
3077 B1	5025 B1
3078 C1	5026 C4
3080 B3	5034 B1
3081 A3	5035 B1
3082 B3	5036 B1
3083 A3	5040 B2
3085 B4	5041 B2
3086 B4	5042 B1
3087 B1	5047 A1
3088 A1	5049 B1
3090 A3	5052 B1
3091 A3	5055 B1
3092 A3	5063 B1
3093 A3	5066 B2
3094 A3	5083 B2
3095 A3	5146 C4
3096 A4	5152 B4
3097 A4	5169 B3
3098 C3	5170 A3
3099 C4	5177 A3
3100 C2	6001 C1
3101 C3	6003 B2
3102 C3	6004 B3
3103 C3	6006 B3
3104 C3	6025 B1
3105 C3	6026 C3
3106 C3	6080 A3
3110 C3	6122 B2
3111 C3	7010 C1
3112 B3	7011 C1
3114 C3	7016 C1
3115 C3	7019 C1
3116 C3	7020 A3
3117 C3	7021 A3
3118 C2	7022 A4
3119 C2	7023 B3
3120 B3	7025 B1
3121 B3	7030 B2
3122 B3	7031 B3
3123 C2	7032 B3
3124 B3	7034 C2
3125 B3	7035 B3
3126 B3	7036 B3
3127 C3	7037 B2
3128 B2	7074 B3
3130 C3	7077 B1
3131 C3	7080 B3
3132 C3	7122 B3
3134 A2	7125 B3
3135 A3	7127 B3
3136 B3	7142 C4
3137 B3	7143 C4
3139 B3	7148 C4
3140 C4	7200 C3
3141 C4	7201 C3
3142 C4	7202 C4
	7203 B3
	7231 C2
	7240 B2
	7241 B2
	7242 B2
	7245 A2
	7250 C4
	7260 A1
	7265 B4
	7266 B4
	7269 B4
	7270 A3
	7271 A4
	7275 A4
	7283 A3
	9022 B4

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 +5V supply voltage (FL1/2.16)
Connect a voltmeter to pin 8 of L02
Adjust the voltage to 5.4V using R3558

1.3 +13V supply voltage (FL1/2.16)
Connect a voltmeter to pin 6 of connector L02
Adjust the voltage to 14.2V using R3234.

1.4 Focusing
This is set with the focus potentiometer (top one on the *Line output transformer/DAF Unit*).

1.5 Dynamic 1) Astigmatic focus
This is set with the aid of the potentiometer on the bottom right of the DAF transformer. Repeat the adjustment of the Vg2 and focus.

1.6 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/DAF unit) to 150V ±2V.

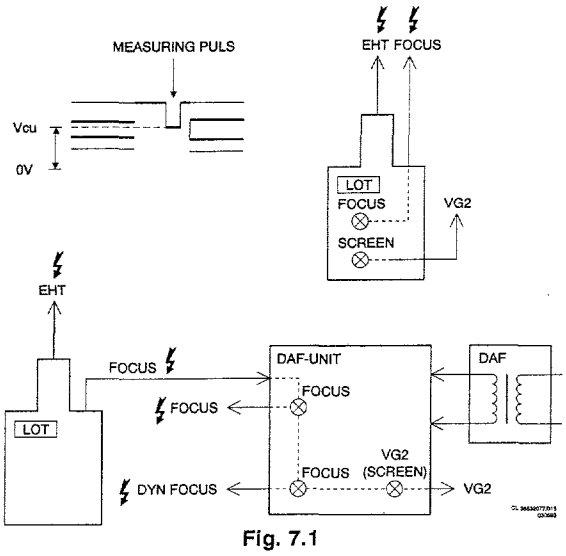


Fig. 7.1

1.7 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.

1.8 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.

1.9 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 the picture). It is also possible to use a ruler for this purpose. The picture can then be centred using R3415.

1.10 Picture width
Set using potentiometer R3607.

1.11 Vertical centring
Set using potentiometer R3467.

1.12 Picture height
Set using potentiometer R3410.

1.13 Picture height
Movie expand off: set using potentiometer R3410.
Movie expand on: set using potentiometer R3422.

1.14 East/West correction
Set using potentiometer R3602.

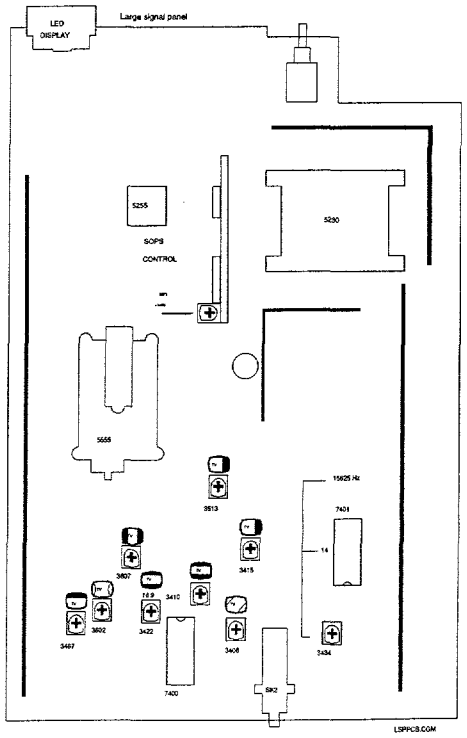


Fig. 7.2

2. E

2.1 S
C
si
S
th
C
U
ar

2.2 4.
S
pc
ar

2.3 El
2.3.1 *C*
C
th
4.
pi
os
S
R

2.3.2 *4.*
C
wi
C
C
S
R

2.3.3 *6.*
C
E
2
C
C
S
R

2.3.4 *C*
C
b
e
p

2.3.5 *C*
C
b
e
p

2.3.6 *S*
C
bl
3-
C
m

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 4.50 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.

SMALL SIGNAL PANEL

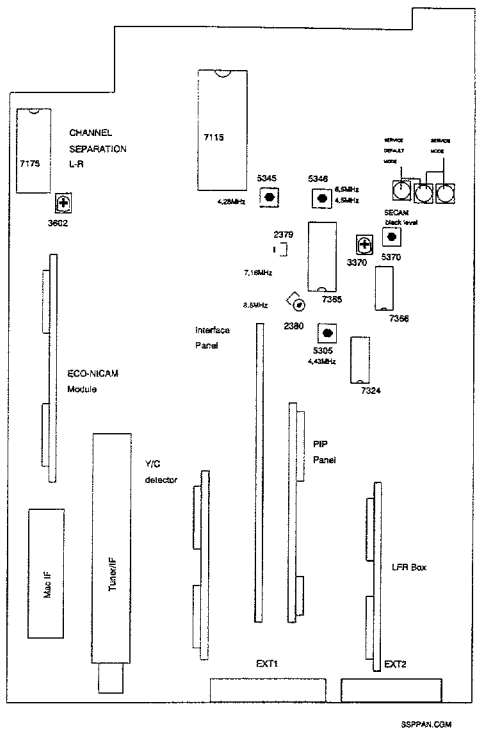


Fig. 7.3

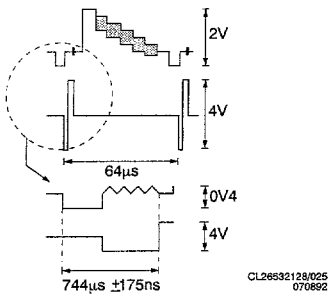


Fig. 7.4

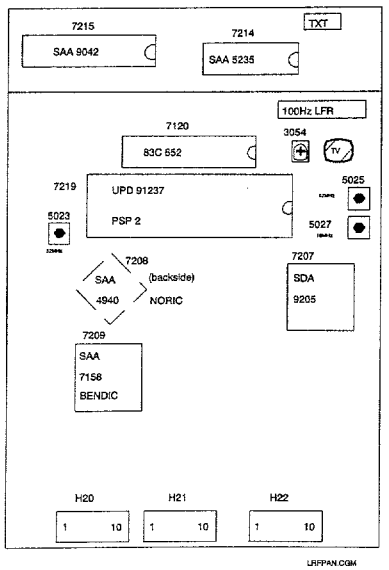


Fig. 7.5

Electrical adjustments

3. Electrical adjustments on the LFR box

3.1 Synchronisation

Connect point 5 of IC7216 to earth. Adjust R3054 until the picture is straight.
Remove the short circuit.

3.2 16MHz oscillator

Apply a PAL/SECAM signal. Measure the signals at point 1 of IC7219 and at point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5027 so that the positive-going flank of the signal at point 1 of IC7219 comes 7.62 µsec after the negative-going flank of the sync pulse in the video signal (point 5 of IC7216).

3.3 32MHz oscillator

Force the STABLE OSD command to the microprocessor, by disconnecting the set from a possible antenna inputsignal. Measure the frequency at point 41 of IC7208. Using L5023 set the frequency to 32 MHz ±50 KHz.

3.4 12MHz oscillator

Switch on compress.
Measure the signals on point 1 of IC7219 and on point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.9). Adjust coil L5025 so that the rising flank of the signal on point 1 of IC7219 comes 7.62 µsec after the negative flank of the sync pulse in the video signal (point 5 of IC7216).

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)

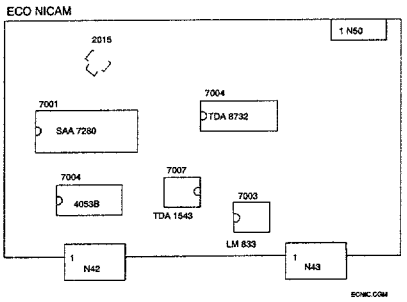


Fig. 7.6

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.

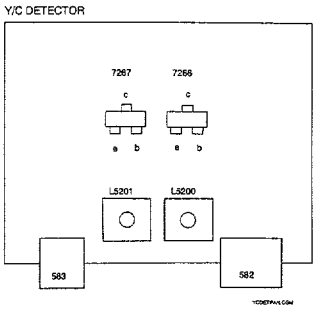


Fig. 7.7

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.).

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.

762 AGC

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

6.3 Setting for PIP modules with TDA4554

6.3.1 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.

6.3.2 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.

6.3.3 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.

Electrical adjustments

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.

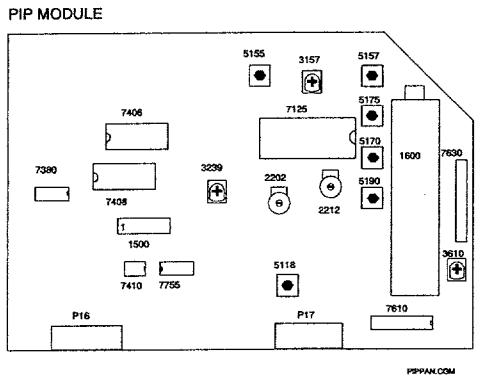


Fig. 7.8

6.4 Adjustment of PLL circuit (36", 16:9)

Connect a pattern generator and apply a PAL colour-bar pattern to the CVBS input.

6.4.1 Adjustment of the PLL oscillator

Movie expand off
Main picture 16:9
PIP-picture 16:9
With the aid of L5101 on the PLL PCB set the DC level on pin 5 of 1500 to 2.5V.

6.4.2 Adjustment of the duty cycle

Movie expand off
Main picture 16:9
PIP-picture 4:3
Connect an oscilloscope to pin 11 of IC7408 (SDA9088).
With the aid of R3130 on the PLL PCB set the time T to 13nsec (see fig. 7.9).

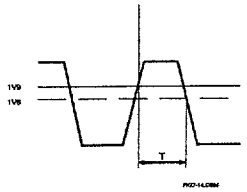


Fig. 7.9

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

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
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

Switch the set into 4:3 mode.
Switch out the DNR via the remote control.
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 FQ816/ME/IF	2
PIP Module	8
NTSC-M	16
NICAM module	64
2nd Frontend on PIP module	128 +

Option code 1 is now:	**218**

Option code 2

Function	*Value*
IC7175 present on SSP	1
100 Hz	4
ECO NICAM	32
100 Hz LFR	64 +

Option code 2 is now:	**101**

Option code 3

Function	*Value*
16:9	64 +

Option code 3 is now:	**64**

Option code 4:

Function	*Value*
Multi-PIP	2
FL2 model	4 +

Option code 4 is now:	**6**

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 FQ816/ME/IF or FQ816/MF/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.

Optioncode 2	
Nbr.	**Function**
1	**IC7175 present on SSP** This is always the case.
2	**Not in use**
4	**100Hz featuring present** This is always the case (see also number 64).
8	**Not in use**
16	**Not in use**
32	**ECO NICAM module present** In this case the digital sooun d broadcast in NICAM transmissions can also be received (see further the number 64 of option code 1).
64	**LFR box present** This is always the case (see also number 4).
128	**Not in use**

Electrical adjustments

Optioncode 3	
Nbr.	**Function**
1	**FSS reception only via SAT box** This switches the D2-MAC decoder off.
2	**Front-end on SAT box is: SF916** In this case it is possible to tune the SAT box to 2 GHz.
4	**Satellite front-end SF914/SF916 present (SAT MAC reception)** Switching on and off satellite reception via the satellite front-end. On switching off the front-end D2-MAC can only be received via cable-TV (CABLE MAC via MAC IF module).
8	**MAC IF module present (CABLE MAC reception)** This module makes it possible to decode a D2-MAC signal which is received via the cable front-end (FQ816/FQ844). In this case, besides satellite transmitters, MAC transmitters can also be received via the cable.
16	**SECAM "Telecom Audio" reception possible** This option generates an extra sound channel in the menu on FSS reception. This channel is necessary for the reception of the French "Telecom" satellite. The necessary hardware is present in all sets so that this option may be selected as desired.
32	**Cable-MAC reception only in hyperband** In this case the reception of MAC-transmitters via the cable is limited to the hyperband.
	16:9 present
64	**Not in use**
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** 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. (see chapter 4 also).
8-128	**Not in use.**

3. 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.
To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):
<MENU>-<BLUE>-<RED>-<MENU+>-
<MENU OFF>

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.

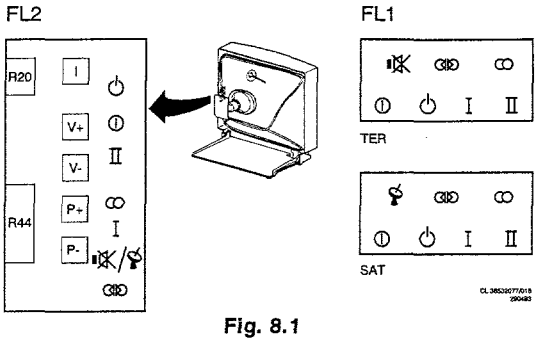


Fig. 8.1

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. Removing the SAT box

The SAT box (excluding the interface panel (p)) can be simply removed, leaving the set functioning normally (The LED display does however indicate an error condition).
The SAT box can also be partially removed: it is possible to remove both the D2-MAC(S) or FSS(T), leaving the SAT box functioning normally. The error message which remains following the total or partial removal of the SAT box can be removed through the application of the option codes (see chapter 7).

As all programs, including that for the SAT box, are stored in the main EAROM (IC7137), the settings for these programs will not be lost, even if the SAT box is replaced. The EAROM (IC7450) located on the D2-MAC panel stores all the settings for the D2-MAC panel.

7. 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.

8. Central repair

For panels and modules which are difficult to repair there remains a possibility for central repair. Following receipt of a defective module a repaired and tested module is issued.
In order to guarantee the quality of the central repair service a certain amount of information regarding the defective panel is required. This information should be submitted together with the defective panel. This concerns the following information:

1. Clear description of the fault.
2. Indication of intermittent or continuous fault
3. Type/version number of the set
4. AG-production code and week/year number
5. Serial number

The defective modules should be complete and free of mechanical damage.
These facilities are offered for the modules below:

LFR box (L+M)	4822 212 30857
100Hz box [L'}	4822 212 30887

9 Diagnosis and protection

9.1 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.

9.2 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 thyristor circuit formed by TS7380/TS7381);
3 0.5Vd uring stand-by and software protection.

9.3 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/-11V for the audio output amplifier defective (SOUND-PROT).
[diagram G]
The protection circuit activates when the +11V and -11V 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.

Repair tips

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.

9.4 Software protection

9.4.1 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 IC 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 §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 IC 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 IC 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.

9.4.2 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 IC 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.

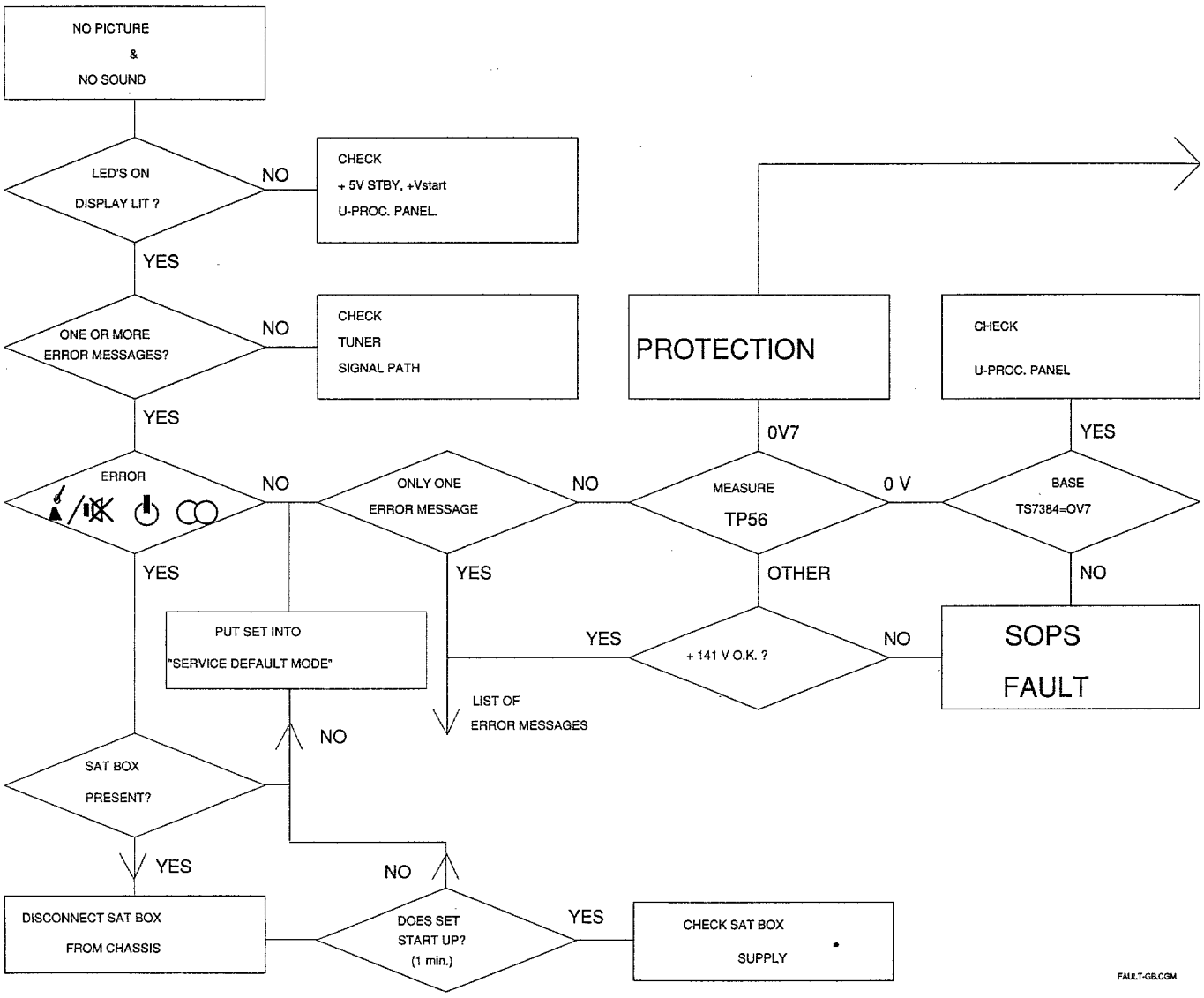
8 +13V on the small signal panel (SSP) [diagrams A, D and F]).
To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via IC 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.

9 SAT box power supply defective (only for set with a SAT box (D2-MAC)).
When the SAT box microprocessor does not send a signal to the main processor in the set, the main processor, following error message 51 (SAT box processor), will switch the software protection in. The LED's now indicate error code 99.
To test whether the SAT box processor is defective the service default mode must be selected. If only the error message from the SAT box is now indicated (error 51), and all power supply voltages on the processor are correct, then the SAT box processor is defective.
The operation of the SAT box power supply [diagram O] can be checked as followed:
Disconnect the SAT box and chassis from one another by disconnecting the band cable between the interface panel [diagram P] and the SAT box [diagram O].
When after a short time the set can be started up from stand-by the SAT box will have an incorrect power supply and error message 99 does not appear.

9.5 Measurements in the protection circuits.

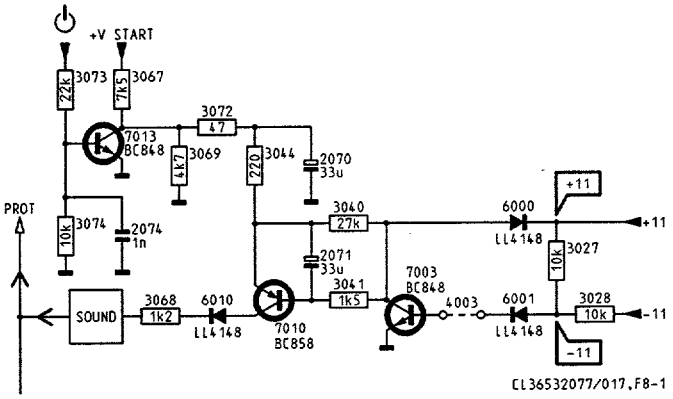
All hardware circuits are illustrated in figure 8.2.
The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.
In this case the signals illustrated are for during:
- normal operation
- protection caused by this circuit (PROT);
- protection caused by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

Faultfindingtree

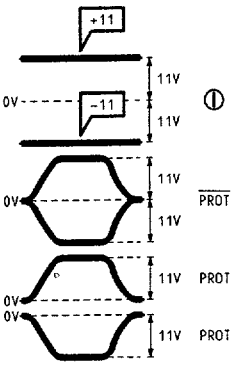


Protection

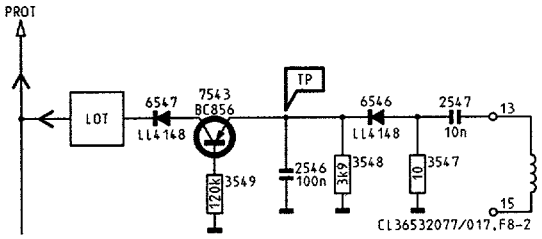
+11 V
-11 V



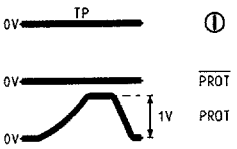
CL36532077/017.F8-1

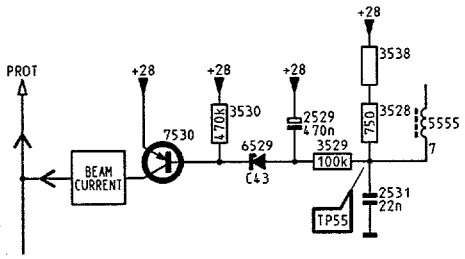


EHT



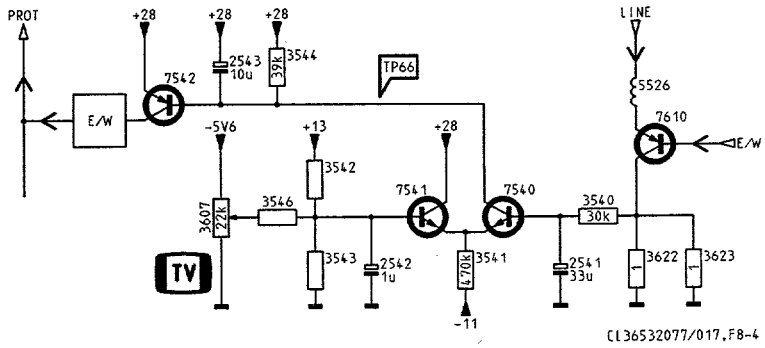
CL36532077/017.F8-2



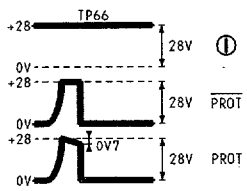


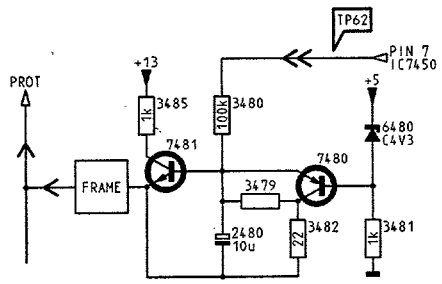
CL36532077/017.F8-3

TV

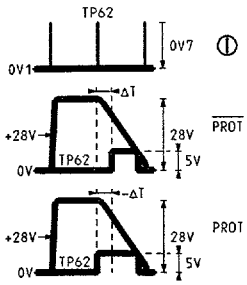


CL36532077/017.F8-4

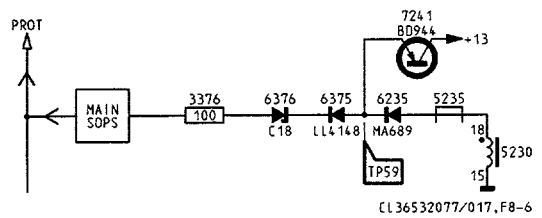




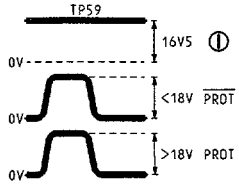
CL36532077/017.F8-5



+V



CL36532077/017.F8-6



CL36532077/017.FREF
130593

Fig. 8.2

List of error messages

Error number on screen	Flashing LED							Description of error
	📡/🔇	ꝏ	∞	①	⏻	I	II	
1[1]			X		X	X		I^2C,IC7108, SSP [H] (MSM6307)
3					X	X	II	I^2C, IC7215, 100Hz [L] [L'] SAA9042
4				X			X	I^2C, IC7220, 100Hz [M] [L'} 83C652
5				X				I^2C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I^2C,IC7600, SSP [F] (TDA8417)
7							X	I^2C,IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Z], PCF8574 (16:9)
9			X	X		X		I^2C,IC7430, SSP [D] (TDA4680)
10				X	X		X	I^2C,IC7395, SSP [D] (TDA8443)
11				X	X			I^2C, front-end, SSP [C] (FQ 9XX)
12						X		I^2C, IC7137, SSP [H] (X24C04)
13			X					I^2C, bus on chassis blocked
14			X	X				I^2C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I^2C, IC7219, SSP [C] (TEA6414)
16			X			X		I^2C, 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			I^2C, IC7080, convergence panel [V] (TDA8444)
28		X						I^2C, PIP tuner [J]
29		X						I^2C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I^2C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I^2C, IC7001, NICAM-panel [K] (SAA7280)
33		X						I^2C, 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	I^2C, bus on SAT box blocked.
37[1]	X		X	X	X		X	I^2C, IC7450, D2-MAC [S] (X24C02)
38[1]	X		X			X	X	I^2C, 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).

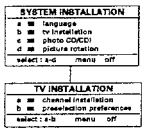
About this handbook

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 :

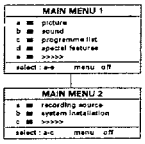
Installation

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.



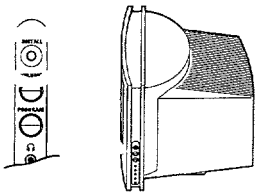
- ○ This circle in front of a sentence indicates that you have to **do** something.
- ▷ This arrow in front of a sentence indicates the **result** of what you have done.

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

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.

○ Press the **INSTALL** key on the right side of your TV set.

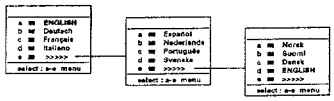


If the message **CHILD LOCK ON** appears, the child lock should be switched off. See Special Features, p. 14.

▷ The **SYSTEM INSTALLATION** menu appears on the screen.

It is also possible to enter the installation menu via the main menu. See Main Menu, p. 11.

○ 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.

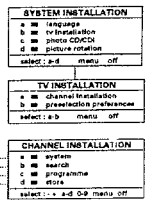
Go on to **4.**

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.

To expand conventional picture formats to wide screen picture formats, see Other Functions, Picture format, p.16.



○ 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** **ONLY ONE SYSTEM AVAILABLE** appears .....

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.

Go on to step **b**.

If you have pressed the wrong key, then repeat step **a**.

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

Go on to step **b**.

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, p. 32.

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.

Go on to step **c**.

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 steps **a** to **c**

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.

Do you want to store another TV channel ?

○ Repeat steps **a-b-c-d**.

Are you connected to the cable system ?
○ Begin immediately with step **b**. You have already selected the TV system in step **a** for all channels.

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

○ Press **MENU**.
▷ The **TV INSTALLATION** menu appears

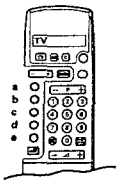
Favourite TV channels

- 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, 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.

Picture rotation

- Press the blue key d in the SYSTEM INSTALLATION menu.
- ▷ PICTURE ROTATION lights up.
- Press MENU - or + repeatedly to adjust the rotation of the picture.

Main Menu

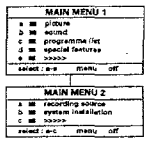


You use the keys in the grey area of the drawing to operate the main menu.

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

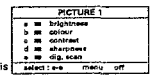
The main menu is split into 2 menus and you can:
- . adjust **picture** and **sound** *according to personal preference*
- . call up a **programme list** with an overview of the TV channels stored
- . select from among various **special features**
- . select **recording sources** for your video recorder
- . 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, see p. 5, also the option tint* appears in the PICTURE 2 menu.
- ▷ 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.

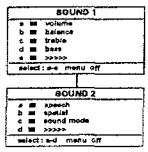
Do you want to store the changed adjustment in the memory ?
- See Special Features, PP store, p. 14.

Digital scan (Line Flicker Reduction)
In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.
- Press the corresponding colour key for DIGITAL SCAN.
- Press MENU - in order to switch off the line flicker reduction.

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

Adjusting the sound

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



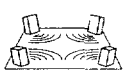
Volume, balance, treble, bass
- Press one of the colour keys to select the adjustment you want to regulate.
- ▷ The selected adjustment lights up.
- Press MENU - or + in order to regulate the selected adjustment.
- Press a colour key again to select another adjustment.

Do you want to store the modified adjustment in the memory ?
- Press MENU.
- ▷ The MAIN MENU appears.
- See Special Features, PP store, p. 14.

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 and surround 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.

You achieve a Surround Sound effect if you have 2 or for a maximum effect 4 extra loudspeakers connected. See Peripherals, p. 27.
In case of 2 extra loudspeakers, always connect them to REAR at the back of your TV.
In case of 4 extra loudspeakers,connect them to FRONT and REAR.



- Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- Place the loudspeakers in the corners of an imaginary square.

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT.
- Select SPATIAL ON.
- ▷ You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.
- Select SPATIAL ON.
- ▷ 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 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.

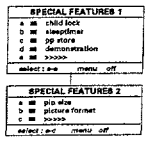
Programme list

- 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

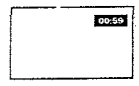
- Press MENU.
- Press the corrasponding colour key for SPECIAL FEATURES.
- ▷ The SPECIAL FEATURES menu appears.



- Press a colour key in order to choose between child lock, sleeptimer, pp store, demonstration, pip size or picture format.
- ▷ 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.

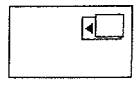
Sleeptimer
With the aid of the sleeptimer you can set the time when the TV should switch itself off.
- Press the corresponding colour key for SLEEPTIMER.
- Hold the key MENU + pressed down.
- ▷ The counter runs from off up to 90 minutes.
- Hold the key MENU - pressed down.
- ▷ The counter runs from 90 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.



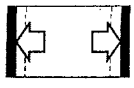
PP store
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the PP key.
- Press the corresponding colour key for PP STORE.
- ▷ PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu.
  At this point all previous adjustments are cancelled.
  See also Other functions, p.17.

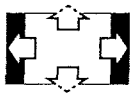
Demonstration
This function demonstrates one after another all the possible options of your TV.
- Press the corresponding colour key for DEMONSTRATION.
- Press MENU + to switch the demonstration on.
- Press off in order to stop the demonstration.

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, p. 20.



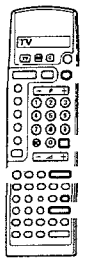
Picture format
A programme in the conventional picture format can be expanded so that you can take full advantage of your wide screen.
- Press the corresponding colour key for PICTURE FORMAT.
- Press MENU - or + repeatedly to select NORMAL, PANORAMA or EXPAND in order to choose between a conventional, a panoramic or a full expanded picture format.



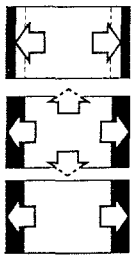


Directions for use

Other functions



Picture format



- Press repeatedly to select
  . or a conventional picture format
  . or a panoramic picture format
  . or a full expanded picture format
  . or a wide screen picture format.
- ▷ The information PANORAMA appears briefly on the screen if a panoramic picture format has been selected.
- ▷ The information MOVIE EXPAND appears briefly on the screen if a full expanded picture format has been selected.
- Keep MENU + pressed to move the full expanded picture upwards so that the subtitles, if there are, become visible at the bottom.
- Keep MENU - pressed to move the full expanded picture downwards again.
- ▷ The information WIDE SCREEN appears briefly on the screen if a wide screen picture format has been selected.

Making subtitles visible from pictures from VCR1, VCR2 or SAT

- Press the M on the remote control repeatedly until the designation TV appears in a grey block.
- Keep MENU + or - pressed to move the picture upwards or downwards again.
- Press the M again until the designation VCR1, VCR2 or SAT appears in a grey block.
- ▷ Now you can operate your video recorder 1 or 2 or satellite tuner again with the remote control of the TV.

Previous programme

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

Brightness

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

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

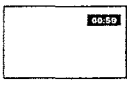
With the green PP-key you can call up again the picture and sound adjustments which have been stored with the PP store in the Special Features menu, p.14.

- 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
. SOUND MUTED when the sound is temporarily interrupted
. the name of the pip connection if pip is switched on.
See Pip-Picture In Picture, p.20
. DUAL I or II in case of bilingual broadcast.

- 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.



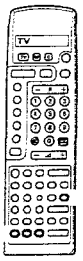
Permanent programmenumber

- Open the door of the remote control.
- Press ⊡ long.
- ▷ The information appears on the screen for a few seconds and 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, you can make your choice.

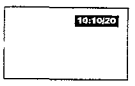
- Open the door of the remote control.
- Press key I-II and select language I or II.
- ▷ DUAL I or II appears for a moment on top of the screen.
  The setting is stored in the memory for the selected TV channel when switching to another TV channel or to standby.



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.



Freezing the picture

When watching you can freeze the picture at any moment.

- Press ▼.
- Press ▼ again to return to normal picture.

DNR

With DNR, Dynamic Noise Reduction, you can reduce the noise when receiving a weak signal and so improve the picture quality.

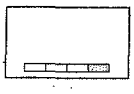
- Press the DNR key repeatedly to select DNR MIN, DNR MAX or DNR OFF.
- ▷ Your selection appears for a moment on top of the screen.
  DNR MIN offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength.
  DNR MAX is not necessary when the picture quality is good.

The setting is stored in the memory only for the selected TV channel after you have switched to another TV channel.

Multi-Pip

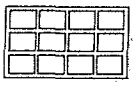
With Multi-pip, you can scan the TV channels stored in the favourite list, display successive frozen pictures with the photo finish function and reproduce the main picture image by image with the strobe function.

- Press ⊠.
- ▷ A menu line appears on the bottom line of the screen. It contains four functions, each having another background colour, corresponding to the menu colour keys.
- Press the corresponding colour key to activate one of the 4 functions.



Scan

- Press the red key a.
- ▷ A scan of the stored TV channels is performed, starting with programme number 0.
  Only TV channels placed in the favourite list or programmes from switched on peripherals are displayed.
  On the last position, bottom right, a live picture is shown of the programme that was displayed before Multi-pip was switched on.
- Press the red key a again.
- ▷ A following series of stored TV channels from the favourite list or programmes from switched on peripherals is scanned.
  Each pip-picture will contain its belonging programme number.
- Select a TV channel with the digit keys.
- ▷ Multi-pip disappears and the selected TV programme will be displayed.
- Press the blue key d to interrupt the scan function and to switch off Multi-pip.



Never perform a scan while recording a TV programme with a video recorder connected to EXTERNAL 1 or 2 and when having selected an option in the Recording Source menu since the scan will be recorded on tape.

Photo finish

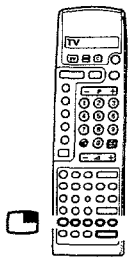
- Press the green key b.
- ▷ *The main picture is displayed in successive* frozen pictures.
  The last picture on the bottom right will remain live.
- Press the green key b again.
- ▷ A new photo finish picture is displayed, overwriting the old one.
- Press the blue key d to switch off the photo finish function and to switch off Multi-pip.
- ▷ The programme that was selected before Multi-pip was switched on, appears again.

Strobe

- Press the yellow key c.
- ▷ The picture is reproduced image by image. So you get an interrupted movement.
- Press the yellow key c again.
- ▷ The picture is reproduced image by image in a faster way.
- Press the yellow key c once again.
- ▷ The stroba function is switched off.
- Press the blue key d to switch off Multi-pip.

Directions for use

Pip - Picture in Picture



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 two different programmes.
The picture in the small screen has no sound

Switching pip on and off

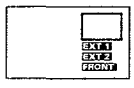
- Open the door of the remote control.
- Press .
- ▷ The pip screen appears and the image is the same as in the main screen.
- ▷ The name of the pip programme appears briefly on the main screen.
- Press again to switch pip off.

Selecting pip programmes

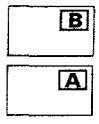
- Press - P + of the pip keys in order to change the TV channels in the pip screen.

Selecting pip connections

- Press repeatedly.
- ▷ The name of the connections appear.
  If any other electronic unit is connected with a eurocable and switched on, its programmes appear in the pip screen.
  Use - P + of the pip keys in order to change the TV channel in the pip screen.
  For connecting equipment to EXTERNAL 1, EXTERNAL 2, FRONT, see *Peripheral Equipment, p. 25.*



Switching screens

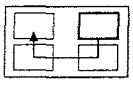


- Press .
- ▷ The main screen and the pip screen exchange places.
  If the TV channel is only in the pip screen and not in the main screen, then use - P + of the pip keys in order to change your TV channel in the pip screen.

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



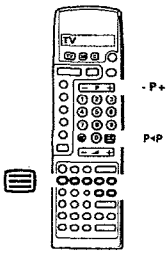
- Press .
- ▷ Each time you press this key, the pip screen moves to another corner of the main screen.

If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.

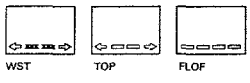
Pip Size

You can select either a large or a small pip screen.
See Main Menu : Special Features, p.14.

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.



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

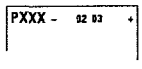
- Press P - to run through the previous pages.
- Press P+ to run through the following pages.

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.

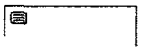
Special teletext functions

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.

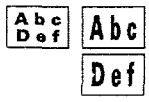
Reveal
Some pages contain concealed information, such as solutions to riddles and puzzles.
- Press ? to call up concealed information.
- Press ? again in order to switch off the concealed information.

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.

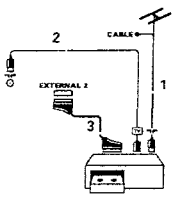


Subpage
By adding a subcode you can call up a desired subpage.
- Enter the page number.
- Press .
- Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
- Press in order to cancel the subcode.

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 right side 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.

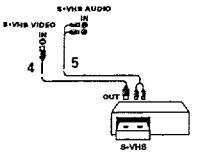
S-VHS video recorder

- 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**

and the S-VHS cables **6** and **7**.

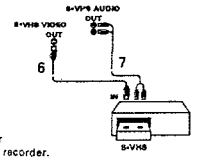
Do not connect an additional eurocable.



OR

- Do you have a S-VHS video recorder with a S-VHS eurocconnector, 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 eurocconnector.
The eurocconnector has no function.



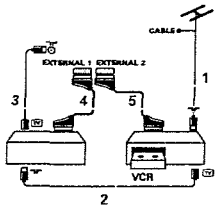
Searching for and storing the testsignal of the video recorder

- 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 right side 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, p. 5.
  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.

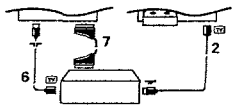
TV, video recorder 1 and one or more peripherals

- *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.

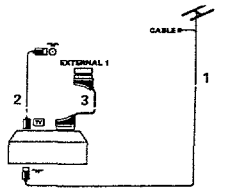


Only with a video recorder connected to **EXTERNAL 2** it is possible to record a programme from your TV as well as from other connected equipment. See **Recording with your video recorder**, p. 31.

TV and laser disc or satellite tuner or Photo CD/CDI equipment

- Connect the aerial cables **1** and **2** as shown alongside. A better picture quality is obtained if you connect the eurocable **3** additionally.
  See also Installation, Photo CD/CDI, p. 9, if you connect a Photo CD/CDI equipment.

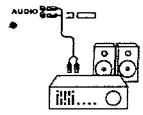
Look for the test signal of your equipment in the same way as you do for a video recorder.



Audio equipment

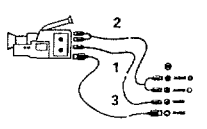
You can listen to your TV sound via your audio equipment.

- 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

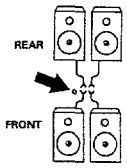
- Connect your camera or camcorder to **FRONT** at the right side of your TV.
- Connect the equipment to **VIDEO 1** and **AUDIO L 2** for mono equipment.
- In the **SOUND** menu select mono sound. See Main Menu, Adjusting the sound, Sound mode, p. 13.
- Connect **AUDIO R 2** for stereo equipment.
- In the **SOUND** menu select stereo sound. S-VHS quality with a S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VHS** input **3** and **AUDIO** inputs **2**.



Extra loudspeakers

To achieve a better sound effect you can connect **2** of **4** extra loudspeakers, min. 8 Ohm.
See also Spatial and Surround sound, p. 12.

- Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the **FRONT** and **REAR** loudspeakers.



In case of 2 extra loudspeakers:

- Connect them to **FRONT**.....**or**
- *Connect them to* **REAR**.

- Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.
- ▷ You achieve a better front sound effect.

- ▷ You achieve a surround sound effect.
  A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to **REAR** and 12 m wire can be purchased from your dealer.
  Do never connect the loudspeakers from these kit to **FRONT**.

In case of 4 extra loudspeakers :

- Connect them to **FRONT** and **REAR**.
- Press the loudspeaker switch on the back of the TV out.
- ▷ The internal loudspeakers of your TV are now switched off.

Headphone

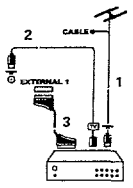
- Insert the plug into the headphone socket 🎧 at the right side of the TV.
- Adjust the volume with ◿ - or +.
- Press 🔇 on the remote control.
- ▷ The internal loudspeakers of your TV are switched off.
  The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

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 suppiled 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 eurocconnector you obtain a better picture quality if you connect a eurocable **3** additionally.



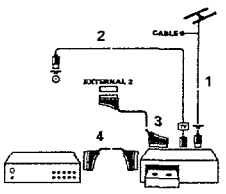
Connecting a decoder without an aerial socket to the TV

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

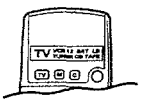
Connecting the decoder to the video recorder

Some video recorders have a special eurocconnector for decodar.

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



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 **C** repeatedly until the designation **EXT1**, **EXT2** or **FRONT** appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
- Press **M** on the remote control repeatedly until the designation **VCR1**, **VCR2**, **SAT**, **LD**, **TUNER**, **CD** or **TAPE** appears in a grey block.
- ▷ Either the picture and/or the sound is reproduced.

Do you want to watch TV again ?

- Press the **TV** key under the display of the remote control.
- Press **C** repeatedly until the picture and/or the sound from the TV channels is reproduced

Directions for use

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

- Switch your TV on.
- Press **C** repeatedly until the indication EXT2 appears on the screen.
- Press repeatedly on the **M** key of the remote control until **VCR1** appears in a grey block.
- 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 **right side** of the TV

- Switch your TV on.
- Press **C** 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.

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.

RECORDING SOURCE
a ■ TV to EXT 2
b ■ EXT 1 to EXT 2
c ■ FRONT to EXT 2
select : a-c menu off

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-taajuuksien taulukko.

EUROPA CHANNEL	FREQ (MHz)
E2	48.25
E3	55.25
E4	62.25
S1	106.25
S2	112.25
S3	119.25
S4	126.25
S5	133.25
S6	140.25
S7	147.25
S8	154.25
S9	161.25
S10	168.25

ITALY CANALE	FREQ (MHz)
A	53.75
B	62.25
C	82.25

FRANCE CANAL	FREQ (MHz)
7	55.75
3	90.50
4	83.75

EUROPA CHANNEL	FREQ (MHz)
E5	175.25
E6	182.25
E7	189.25
E8	196.25
E9	203.25
E10	210.25
E11	217.25
E12	224.25
S11	231.25
S12	238.25
S13	245.25
S14	252.25
S15	259.25
S16	266.25
S17	273.25
S18	280.25
S19	287.25
S20	294.25

ITALY CANALE	FREQ (MHz)
D	175.25
E	183.75
F	192.25
G	201.25
H	210.25
H1	217.25

CANAL	FREQ (MHz)
5	176.0
6	184.0
7	192.0
8	200.0
9	208.0
10	216.0

Canaux interbande	
B	119.75
C	128.75
D	140.75
E	159.75
F	184.75
G	176.75
H	198.75
I	206.75
J	212.75
K	224.75
L	256.75
M	248.75
N	360.75
O	272.75
P	264.75
Q	296.75

S21	303.25
S22	311.25
S23	327.25
S24	335.25
S25	351.25
S26	383.25
S27	375.25
S28	287.25
S29	399.25
S30	511.25
S31	423.25
S32	439.25
S33	447.25

H1	303.25
H2	311.25
H3	319.25
H4	327.25
H5	335.25
H6	343.25
H7	351.25
H8	359.25
H9	367.25
H10	375.25
H11	383.25
H12	391.25
H13	399.25
H14	407.25
H15	415.25
H16	423.25
H17	431.25
H18	439.25
H19	447.25

21	471.25
22	479.25
23	487.25
24	495.25
25	503.25
26	511.25
27	519.25
28	527.25
29	535.25
30	543.25
31	551.25
32	559.25
33	567.25
34	575.25
35	583.25
36	591.25
37	599.25
38	607.25
39	615.25
40	623.25
41	631.25
42	639.25
43	647.25
44	655.25

45	663.25
46	671.25
47	679.25
48	687.25
49	695.25
50	703.25
51	711.25
52	719.25
53	727.25
54	735.25
55	743.25
56	751.25
57	759.25
58	767.25
59	775.25
60	783.25
61	791.25
62	799.25
63	807.25
64	815.25
65	823.25
66	831.25
67	839.25
68	839.25
69	855.25

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 kabelmaatschappij 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.

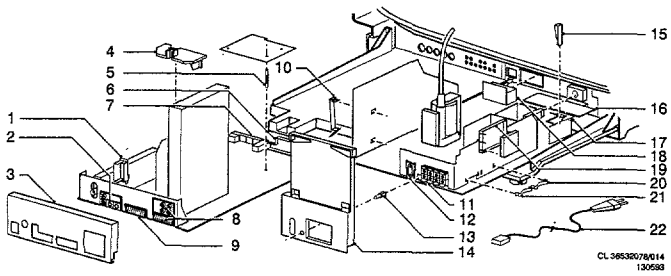
DK
Frekvenser benyttet af kabel operatører kan være afvigende fra disse, kontakt deres kabel operatør eller forhandler for nærmere information.

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

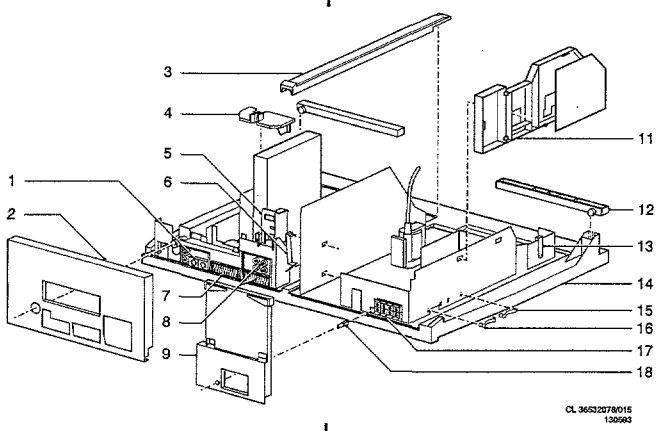
S
Frekvenserna som används i kabel-TV-näten kan avvika från frekvenserna i tabellen. Kontakta ditt kabel-TV-bolag eller din radiohandlare för vidare information.

SF
Kaapeliyhtiöiden käyttämät taajuudet voivat poiketa taulukossa olevista taajuuksista. Tarkat tiedot saat kaapeliyhtiöltä tai myyjältä.

10. Exploded view & Mechanical parts list



1	4822 256 91807	Holder for splitter
2	4822 267 41005	Cinch/2 x SVHS connector
2	4822 267 20409	Cinch/1 x SVHS connector
3	4822 432 93132	SSP cover
3	4822 432 92767	SSP cover -/39
3	4822 432 93138	SSP cover FL1.17
4	4822 404 31196	Bracket second tuner PIP
5	4822 404 31197	Spacer
6	4822 218 21084	Keyboard
7	4822 267 41004	Headph./cinch/ SVHS connector
7	4822 267 20408	Headph./cinch
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x cinch connector
9	4822 267 51058	Euroconnector
10	4822 492 70789	Spring
11	4822 290 60812	Connector for LS
12	4822 267 20417	Socket for LS
13	4822 410 25036	Mute knob
14	4822 432 92743	LSP cover
14	4822 432 92991	LSP cover FL1.17
15	4822 492 62067	Spring
16	4822 466 93027	Protection plate
17	4822 404 31167	bracket for mains cord
18	4822 466 93002	LED block
18	4822 130 91183	LED block FL1.17
19	4822 404 31202	Bracket for DAF panel
20	4822 492 70143	Spring
21	4822 492 70788	Spring
22	4822 321 10736	Mains cord



1	4822 267 41005	Cinch/SVHS connector
2	4822 466 93249	SSP cover
3	4822 404 31287	Bracket
4	4822 404 31196	Bracket for second tuner PIP
5	4822 256 91807	Holder for splitter
6	4822 492 70789	Spring
7	4822 267 51058	Euroconnector
8	4822 267 20427	Euro/4 x cinch connector
8	4822 267 20411	Euro/2 x cinch connector
9	4822 432 92695	LSP cover
10	4822 410 25036	Mute knob
11	4822 464 70616	Bracket for mains filter
12	4822 462 42016	Service stand
13	4822 492 62076	Spring
14	4822 464 70615	Frame for chassis
15	4822 492 70143	Spring
16	4822 492 70788	Spring
17	4822 290 60812	Connector for LS

	4822 265 30525	2P male white
	4822 265 20541	2P male black
	4822 265 31102	6P male
	4822 265 41328	10P male
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 265 40442	10P male
	4822 265 20509	2P grey
	4822 267 40985	6P male
	4822 264 40207	3P male
	4822 267 41018	2P red
	4822 265 40596	2P male
	4822 265 20512	2P green
	4822 265 20511	2P blue
	4822 265 31093	6P
	4822 265 41326	10P
▲	4822 265 30389	2P male
	4822 267 30871	2P female
	4822 266 20163	2P black

Various

	4822 466 93029	insulation plate
	4822 255 40527	insulator
	5322 390 20011	vet silic.P4 20GR
	4822 492 70143	spring 10X33mm
	4822 492 62076	spring fix transistor
	4822 492 70788	spring fix IC
	4822 492 70789	spring fix transistor
	4822 290 60812	socket for ext. loudsp.
	4822 267 20417	socket for squeeters
	4822 276 13094	switch loudsp. ON/OFF
	4822 256 30496	fuse holder
▲	4822 276 12998	mains switch
	4822 310 31932	SOPS repair kit
	4822 320 20162	EHT cable 28"-32"
	4822 320 11105	focus cable 28"
	4822 320 11106	focus cable 32"
	4822 320 11104	focus cable 32"
	4822 320 11103	focus cable 32"
	4822 320 20181	EHT cable 36"
	4822 320 20178	focus cable red 36"
	4822 320 20179	focus cable black 36"
	4822 320 20213	Vg2 cable 32"
1010	4822 212 23892	NTSC panel
1026	4822 102 90038	DAF unit 32"
1026	4822 101 11151	DAF unit 36"
1200▲	4822 070 33151	fuse 3,15A
1595	4822 218 21041	EHT bleeder 36"

⊣⊢

2000	4822 126 11823	270pF 10% 500V
2001	4822 122 31784	4,7nF 10% 50V
2002	4822 122 31784	4,7nF 10% 50V
2003	4822 126 11175	22pF 5% 50V
2007	4822 122 31797	22nF 10% 63V
2008	4822 122 31797	22nF 10% 63V
2009	4822 126 11175	22pF 5% 50V
2010	5322 122 33446	3,3nF 10% 63V
2011	4822 122 31775	680pF 2% 63V
2011	4822 122 32566	3,9nF 10% 63V
2012	4822 122 32927	220nF +80-20% 50V
2013	4822 122 32927	220nF +80-20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015	4822 124 42109	22µF 10% 50V
2016	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 122 31414	10nF 100V

⊣⊢

2020	4822 122 31414	10nF 100V
2021	4822 122 31414	10nF 100V
2022	4822 122 31414	10nF 100V
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 +80-20% 50V
2027	4822 122 32927	220nF +80-20% 50V
2028	4822 122 32927	220nF +80-20% 50V
2029	4822 122 32927	220nF +80-20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034▲	4822 122 32442	10nF 50V
2035	4822 122 31775	680pF 2% 63V
2035	4822 122 32566	3,9nF 10% 63V
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF +80-20% 50V
2041	4822 122 32927	220nF +80-20% 50V
2043	4822 122 32927	220nF +80-20% 50V
2045	4822 122 32927	220nF +80-20% 50V
2046	4822 122 32927	220nF +80-20% 50V
2047	4822 122 32927	220nF +80-20% 50V
2049	4822 122 31765	100pF 2% 63V
2050	4822 124 42362	33µF 20% 16V
2051	4822 124 42362	33µF 20% 16V
2052	4822 124 42362	33µF 20% 16V
2053	4822 124 42362	33µF 20% 16V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	4822 122 31773	560pF 2% 63V
2060	4822 122 32142	270pF 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
2214	4822 124 23492	220µF 50% 385V
2215▲	4822 122 33665	3,3nF 20% 125V
2216▲	4822 126 12274	1500pF 10% 2kV
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2237▲	4822 126 12276	2200pF 10% 2kV
2238	4822 124 22583	47µF 160V
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 31781	1500pF 10% 50V
2261	5322 124 21189	100µF 20% 40V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80507	330µF 20%
2270	4822 124 41584	100µF 20% 10V

Large

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2272	4	
2302	4	
2303	4	
2308	4	
2321	4	
2330	4	
2331	4	
2351	4	
2360	4	
2361	4	
2365	5	
2372	5	
2376	4	
2380	4	
2381	4	
2382	4	
2386	5	
2401	4	
2402	4	
2403	5	
2404	4	
2405	4	
2406	4	
2407	5	
2408	4	
2409	4	
2410	4	
2411	4	
2412	4	
2413	4	
2415	4	
2416	4	
2417	4	
2418	4	
2419	4	
2450▲	4	
2451	5	
2452	4	
2453	4	
2455	4	
2456	4	
2456	4	
2457	4	
2458	4	
2459	4	
2460	4	
2480	4	
2502	4	
2503	4	
2504	4	
2504▲	4	
2504▲	4	
2507	4	
2509	4	
2509	4	
2510	4	
2510	4	
2511	4	
2512	4	
2513	4	
2517	4	
2518	4	
2519	4	
2520▲	4	
2521▲	4	
2522▲	4	
2523▲	4	
2523	5	
2524	4	
2524	4	
2525	4	
2526	4	
2527	4	
2529	4	

Spare parts list / Stückliste / Liste des pièces

Large signal panel A B G FL1/2.14

00V	2272	4822 122 33496	100nF 10% 63V
00V	2302	4822 122 31965	220pF 2% 63V
00V	2303	4822 122 31767	150pF 2% 63V
0% 63V	2308	4822 122 32891	68nF 10% 63V
0% 63V	2321	4822 121 51319	1µF 10% 63V
0% 25V	2330	4822 122 31784	4,7nF 10% 50V
+80-20%	2331	4822 122 32891	68nF 10% 63V
	2351	4822 121 41854	150nF 5% 63V
+80-20%	2360	4822 122 31981	33nF 5% 50V
	2361	4822 121 42589	82nF 5% 63V
+80-20%			
	2365	5322 122 32838	82nF 10% 63V
+80-20%	2372	5322 121 42502	390nF 5% 63V
	2376	4822 124 40272	33µF 20% 16V
	2380	4822 122 33496	100nF 10% 63V
% 50V	2381	4822 122 33496	100nF 10% 63V
% 50V			
0% 63V	2382	4822 122 33496	100nF 10% 63V
0% 25V	2386	5322 122 31647	1nF 10% 63V
0V	2401	4822 122 32542	47nF 10% 63V
	2402	4822 124 41577	4,7µF 20% 50V
2% 63V	2403	5322 124 41431	22µF 20% 35V
0% 63V			
2% 63V	2404	4822 124 41577	4,7µF 20% 50V
2% 63V	2405	4822 122 32542	47nF 10% 63V
0% 63V	2406	4822 121 51091	1,2nF 2% 250V
	2407	5322 122 31647	1nF 10% 63V
2% 63V	2408	4822 122 31172	180pF 10% 500V
80-20%			
	2409	4822 122 31797	22nF 10% 63V
80-20%	2410	4822 121 41854	150nF 5% 63V
	2411	4822 121 41854	150nF 5% 63V
80-20%	2412	4822 122 31173	220pF 10% 500V
	2413	4822 122 31768	180pF 2% 63V
80-20%			
	2415	4822 122 32542	47nF 10% 63V
	2416	4822 122 33496	100nF 10% 63V
80-20%	2417	4822 122 32808	1,2nF 10% 63V
	2418	4822 122 31797	22nF 10% 63V
80-20%	2419	4822 124 40849	330µF 20% 16V
% 63V	2450▲	4822 122 32442	10nF 50V
0% 16V	2451	5322 122 31647	1nF 10% 63V
0% 16V	2452	4822 124 41716	220µF 20% 35V
	2453	4822 122 33496	100nF 10% 63V
% 16V	2455	4822 122 31746	1000pF 2% 63V
0% 16V			
% 63V	2456	4822 124 80457	3300µF 20% 35V
% 63V	2456	4822 124 80103	4700µF 20% 25V
% 63V	2457	4822 124 42249	1µF 10% 50V
	2458	4822 122 31797	22nF 10% 63V
% 63V	2459	4822 122 33496	100nF 10% 63V
% 63V			
0%	2460	4822 122 33496	100nF 10% 63V
0%	2480	4822 124 23495	10µF 20% 25V
% 16V	2502	4822 121 41689	100nF 10% 250V
	2503	4822 126 11823	270pF 10% 500V
% 25V	2504	4822 126 12084	390pF 10% 2kV
0% 10V			
% 40V	2504▲	4822 126 12272	1000pF 10% 2kV
63V	2504▲	4822 126 12273	1200pF 10% 2kV
0% 250V	2507	4822 121 41673	220nF 10% 100V
	2509	4822 122 40112	560pF 20% 500V
0% 400V	2509	4822 122 31174	2,7nF 10% 500V
0% 385V			
0% 125V	2510	4822 126 12083	1nF 10% 500V
10% 2kV	2510	4822 126 11494	2,2nF 10% 500V
0% 500V	2511	4822 124 41739	47µF 20% 160V
	2512	4822 124 40435	10µF 20% 50V
20% 25V	2513	4822 124 40435	10µF 20% 50V
0% 500V			
20% 25V	2517	4822 126 11157	470pF 10% 500V
0% 500V	2518	4822 124 22449	4,7µF 30% 350V
10% 2kV	2519	4822 124 80341	1µF 20% 160V
	2520▲	4822 121 43397	680nF 5% 250V
0V	2521▲	4822 121 43397	680nF 5% 250V
20% 63V			
% 2kV	2522▲	4822 121 43397	680nF 5% 250V
% 63V	2523▲	4822 122 33382	9,1nF 5% 2kV
% 63V	2523	5322 121 41603	10nF 5% 2kV
	2524	4822 121 70005	15nF 5% 630V
0% 50V	2524	4822 121 70006	18nF 55 630V
0% 40V			
% 63V	2525	4822 124 80604	47µF 20% 50V
0%	2526	4822 126 11502	470pF 10% 500V
0% 10V	2527	4822 121 70005	15nF 5% 630V
	2529	4822 124 23491	0,47µF 20% 50V

	2530	4822 122 31797	22nF 10% 63V
	2531	4822 121 40516	22nF 10% 250V
	2533	5322 122 32818	2,2nF 10% 100V
	2534	4822 126 12761	1,5nF 10% 500V
	2535	4822 124 23488	1000µF 20% 35V
	2536	4822 126 12761	1,5nF 10% 500V
	2537	4822 124 80037	1000µF 20% 16V
	2541	4822 124 23489	33µF 20% 25V
	2542	4822 124 22466	1µF 20% 50V
	2543	4822 124 23495	10µF 20% 25V
	2544▲	4822 124 41525	100µF 20% 25V
	2545	4822 122 33865	1nF 10% 500V
	2546	4822 126 11725	1µF 20% 50V
	2547	4822 122 32566	3,9nF 10% 63V
	2548	4822 126 11725	1µF 20% 50V
	2551	4822 124 40195	150µF 20% 16V
	2600	4822 124 41577	4,7µF 20% 50V
	2603	4822 122 33496	100nF 10% 63V
	2605	4822 122 31781	1500pF 10% 50V
	2606	4822 122 32542	47nF 10% 63V
	2606	4822 122 32541	27nF 10% 63V
	2606	4822 122 31797	22nF 10% 63V
	2609	4822 121 51243	56nF 5% 50V
	2609	5322 121 42386	100nF 5% 63V
	2610	4822 124 41576	2,2µF 20% 50V
	2611	4822 124 80603	4,7µF 20% 50V
	2612	4822 124 80603	4,7µF 20% 50V
	2613	4822 122 31784	4,7nF 10% 50V
	2615	4822 122 33498	2,7nF 10% 63V
	2801	4822 122 32153	1,8nF 10% 63V
	2805	4822 124 40435	10µF 20% 50V
	2806	4822 122 31797	22nF 10% 63V

	3000	4822 051 10912	9k1 2% 0,25W
	3001	4822 051 10912	9k1 2% 0,25W
	3004	4822 051 10104	100k 2% 0,25W
	3005	4822 051 10104	100k 2% 0,25W
	3006	4822 051 10204	200k 2% 0,25W
	3009	4822 051 10204	200k 2% 0,25W
	3011	4822 051 10203	20k 2% 0,25W
	3012	4822 051 10203	20k 2% 0,25W
	3013	4822 116 52268	300k 5% 0,5W
	3014	4822 116 52268	300k 5% 0,5W
	3016▲	4822 052 10828	8Ω2 5% 0,33W
	3021▲	4822 052 10828	8Ω2 5% 0,33W
	3022▲	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
	3043	4822 051 10203	20k 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
	3060	4822 051 10203	20k 2% 0,25W
	3061	4822 051 10201	200Ω 2% 0,25W
	3065	4822 051 10184	180k 2% 0,25W
	3066	4822 051 10184	180k 2% 0,25W
	3067	4822 116 52299	7k5 5% 0,5W
	3068	4822 116 52207	1k2 5% 0,5W

	3069	4822 051 10622	6k2 2% 0,25W
	3072	4822 051 10479	47Ω 2% 0,25W
	3073	4822 051 10223	22k 2% 0,25W
	3074	4822 051 10103	10k 2% 0,25W
	3201▲	4822 053 21475	4M7 5% 0,5W
	3202▲	4822 053 21825	8M2 5% 0,5W
	3204▲	4822 116 40138	PTC
	3209▲	4822 113 80575	1Ω5 10% 5W
	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
	3216▲	4822 115 90309	56Ω 10% 5W
	3235▲	4822 052 10108	1Ω 5% 0,33W
	3238	4822 116 52268	300k 5% 0,5W
	3238	4822 116 52234	100k 5% 0,5W
	3239	4822 116 52268	300k 5% 0,5W
	3239	4822 116 52234	100k 5% 0,5W
	3240	4822 116 52268	300k 5% 0,5W
	3240	4822 116 52234	100k 5% 0,5W
	3241	4822 113 80635	3,3Ω 10% 5W
	3242	4822 051 10122	1k2 2% 0,25W
	3243	4822 116 52226	560Ω 5% 0,5W
	3244	4822 051 10151	150Ω 2% 0,25W
	3245	4822 116 52226	560Ω 5% 0,5W
	3247	4822 051 52202	2k2 1% 0,125W
	3248	4822 051 52202	2k2 1% 0,125W
	3249	4822 116 52258	220k 5% 0,5W
	3250▲	4822 116 52198	62Ω 5% 0,5W
	3250▲	4822 116 52199	68Ω 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%
	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 10113	11k 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 116 52184	18Ω 5% 0,5W
	3311	4822 051 10471	470Ω 2% 0,25W
	3312	4822 051 10101	100Ω 2% 0,25W
	3313	4822 116 52184	18Ω 5% 0,5W
	3314	4822 116 52175	100Ω 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 10751	750Ω 2% 0,25W
	3357	4822 050 21542	1k54 1% 0,6W
	3358	4822 116 52183	16Ω 5% 0,5W
	3359	4822 050 21602	1k6 1% 0,6W
	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 053 10271	270Ω 5% 1W
	3370	4822 051 10332	3k3 2% 0,25W
	3371	4822 100 11348	1k 30% lin
	3372	4822 051 10561	560Ω 2% 0,25W
	3373	4822 051 10153	15k 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
	3402	4822 051 10562	5k6 2% 0,25W
	3403	4822 051 10229	22Ω 2% 0,25W
	3404	4822 051 10182	1k8 2% 0,25W
	3405	4822 051 10333	33k 2% 0,25W
	3406	4822 100 11483	10k 30% lin
	3407	4822 051 10561	560Ω 2% 0,25W
	3408	4822 051 10563	56k 2% 0,25W
	3409	4822 116 52265	270k 5% 0,5W
	3410	4822 051 10912	9k1 2% 0,25W
	3458▲	4822 116 83332	1Ω1 5% 0,5W
	3458▲	4822 116 80676	1Ω5 5% 0,5W
	3459▲	4822 116 80176	1Ω 5% 0,5W
	3459▲	4822 116 80676	1Ω5 5% 0,5W
	3460▲	4822 053 12181	180Ω 5% 3W
	3460▲	4822 053 11331	330Ω 5% 2W
	3460▲	4822 053 11271	270Ω 5% 2W
	3461	4822 116 80176	1Ω 5% 0,5W
	3462	4822 116 80176	1Ω 5% 0,5W
	3463	5322 116 82222	1Ω2 5% 0,5W
	3464	4822 053 10271	270Ω 5% 1W
	3464	4822 053 10102	1k 5% 1W
	3465	4822 051 10681	680Ω 2% 0,25W
	3467	4822 100 20166	10k 30% lin
	3468	4822 053 12181	180Ω 5% 3W
	3468	4822 053 12331	330Ω 5% 3W
	3473	4822 051 10109	10Ω 2% 0,25W
	3473	4822 051 10152	1k5 2% 0,25W
	3479	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
	3484	4822 051 10224	220k 2% 0,25W
	3485	4822 051 10102	1k 2% 0,25W
	3500	4822 116 52224	470Ω 5% 0,5W
	3501	4822 116 52274	36k 5% 0,5W
	3502	4822 116 52306	9k1 5% 0,5W
	3503	4822 116 52306	9k1 5% 0,5W
	3504	4822 116 52176	10Ω 5% 0,5W
	3505	4822 116 52229	750Ω 5% 0,5W
	3506	4822 053 11108	1Ω 5% 2W
	3507	4822 116 52184	18Ω 5% 0,5W
	3508▲	4822 116 60523	2k2 10% 5W
	3508	4822 116 82773	1k8 10% 5W
	3508	4822 116 83003	1k5 10% 5W
	3509	4822 053 20104	100k 5% 0,25W
	3510	4822 053 10681	680Ω 5% 1W
	3511▲	4822 052 10128	1Ω2 5% 0,33W
	3512	4822 051 10331	330Ω 2% 0,25W
	3513	4822 100 11319	4k7 30% lin
	3514	4822 116 52197	56Ω 5% 0,5W
	3515▲	4822 052 10108	1Ω 5% 0,33W
	3516▲	4822 052 10108	1Ω 5% 0,33W
	3517▲	4822 052 11108	1Ω 5% 0,5W
	3518	4822 116 52267	30k 5% 0,5W
	3519	4822 116 52267	30k 5% 0,5W
	3520▲	4822 052 11102	1k 5% 0,5W
	3521▲	4822 052 11102	1k 5% 0,5W
	3522	4822 117 10285	6,8Ω 5% 3W
	3523	4822 116 52233	10k 5% 0,5W
	3524	4822 116 52176	10Ω 5% 0,5W
	3525	4822 116 52207	1k2 5% 0,5W
	3526	4822 116 52306	9k1 5% 0,5W
	3527	4822 051 10102	1k 2% 0,25W
	3528	4822 050 11002	1k 1% 0,4W
	3528	4822 116 52253	2k 5% 0,5W

5 0,5W	3529	4822 051 10204	200k 2% 0,25W
5 0,25W	3530	4822 051 10474	470k 2% 0,25W
5% 0,5W	3531	4822 116 52274	36k 5% 0,5W
2% 0,25W	3532▲	4822 050 23301	330Ω 1% 0,6W
5 0,25W	3532	4822 116 52249	1k8 5% 0,5W
5 0,25W	3533▲	4822 050 23301	330Ω 1% 0,6W
5 0,25W	3534▲	4822 052 10128	1Ω2 5% 0,33W
5 0,25W	3535▲	4822 052 10128	1Ω2 5% 0,33W
5 0,25W	3536▲	4822 053 10331	330Ω 5% 1W
5 0,25W	3537	4822 116 52197	56Ω 5% 0,5W
5 0,25W	3538	4822 050 21303	13k 1% 0,6W
5 0,25W	3538	4822 050 28202	8k2 1% 0,6W
5 0,25W	3539▲	4822 052 10108	1Ω 5% 0,33W
% lin	3540	4822 116 52267	30k 5% 0,5W
2% 0,25W	3541▲	4822 116 52272	330k 5% 0,5W
5 0,25W	3542	4822 051 10104	100k 2% 0,25W
% 0,5W	3543	4822 051 20222	2k2 5% 0,1W
5 0,25W	3543	4822 051 10242	2k4 2% 0,25W
5 0,5W	3544	4822 051 10393	39k 2% 0,25W
5 0,5W	3545	4822 116 52208	130Ω 5% 0,5W
0,5W	3546	4822 051 10104	100k 2% 0,25W
5 0,5W	3547	4822 051 10109	10Ω 2% 0,25W
2% 3W	3548	4822 051 10392	3k9 2% 0,25W
% 2W	3549	4822 051 10124	120k 2% 0,25W
% 2W	3550	4822 051 10132	1k3 2% 0,25W
0,5W	3551	4822 051 10151	150Ω 2% 0,25W
0,5W	3552	4822 116 52207	1k2 5% 0,5W
5 0,5W	3553	4822 116 52207	1k2 5% 0,5W
2% 1W	3555	4822 113 80592	150Ω 10% 5W
1W	3556	4822 053 11108	1Ω 5% 2W
% 0,25W	3558	4822 051 10109	10Ω 2% 0,25W
% lin	3559	4822 051 10392	3k9 2% 0,25W
% 3W	3560	4822 113 80586	6Ω8 10% 5W
% 3W	3561	4822 051 58201	820Ω 1% 0,125W
5 0,25W	3562	4822 051 52202	2k2 1% 0,125W
0,25W	3563	4822 116 52175	100Ω 5% 0,5W
0,25W	3564	4822 051 10569	56Ω 2% 0,25W
% 0,5W	3570	4822 051 10122	1k2 2% 0,25W
0,25W	3570	4822 051 10272	2k7 2% 0,25W
5 0,25W	3601	4822 051 10104	100k 2% 0,25W
% 0,25W	3602	4822 100 11213	22k 30% lin
0,25W	3603	4822 051 10163	16k 2% 0,25W
% 0,5W	3603	4822 051 10123	12k 2% 0,25W
0,5W	3604	4822 051 10514	510k 2% 0,25W
0,5W	3604	4822 051 10624	620k 2% 0,25W
0,5W	3605	4822 051 10103	10k 2% 0,25W
5 0,5W	3605	4822 051 10203	20k 2% 0,25W
% 0,5W	3606	4822 051 10223	22k 2% 0,25W
2W	3607	4822 100 11213	22k 30% lin
5 0,5W	3608	4822 051 10103	10k 2% 0,25W
5 5W	3609	4822 051 10473	47k 2% 0,25W
5 5W	3610	4822 051 10472	4k7 2% 0,25W
5 5W	3611	4822 116 52256	2k2 5% 0,5W
5 0,25W	3612	4822 116 52283	4k7 5% 0,5W
% 1W	3613	4822 051 10202	2k 2% 0,25W
0,33W	3614	4822 116 52249	1k8 5% 0,5W
% 0,25W	3615	4822 116 52224	470Ω 5% 0,5W
5 lin	3616	4822 051 10332	3k3 2% 0,25W
0,5W	3617	4822 051 20222	2k2 5% 0,1W
0,33W	3618	4822 051 10683	68k 2% 0,25W
0,33W	3619	4822 051 20222	2k2 5% 0,1W
0,5W	3620	4822 051 10622	6k2 2% 0,25W
0,5W	3620	4822 051 10682	6k8 2% 0,25W
0,5W	3621	4822 051 10114	110k 2% 0,25W
,5W	3622	4822 116 80176	1Ω 5% 0,5W
,5W	3623	4822 116 80176	1Ω 5% 0,5W
5 3W	3627	4822 051 10202	2k 2% 0,25W
0,5W	3628	4822 051 10473	47k 2% 0,25W
0,5W	3629	4822 051 10474	470k 2% 0,25W
0,5W	3629	4822 051 10624	620k 2% 0,25W
0,5W	3630	4822 051 10103	10k 2% 0,25W
,25W	3632	4822 051 10134	130k 2% 0,25W
,4W	3633	4822 051 10271	270Ω 2% 0,25W
,5W	3633	4822 051 10102	1k 2% 0,25W

3634	4822 051 10473	47k 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 20183	18k 5% 0,1W
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
3800	4822 116 52289	5k6 5% 0,125W
3801	4822 051 10184	180k 2% 0,25W
3802	4822 051 10104	100k 2% 0,25W
3803	4822 051 20222	2k2 5% 0,1W
3804	4822 051 10103	10k 2% 0,25W
3805▲	4822 111 41424	22Ω 5% 0,3W
3806	4822 051 20222	2k2 5% 0,1W
3807	4822 116 52256	2k2 5% 0,5W
3809	4822 051 10104	100k 2% 0,25W
3810	4822 116 52176	10Ω 5% 0,5W
3811▲	4822 116 52215	220Ω 5% 0,5W

Jumper

4000	4822 051 10008	0Ω 5% 0,25W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4004	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4061	4822 051 10008	0Ω 5% 0,25W
4074	4822 051 10008	0Ω 5% 0,25W
4268	4822 051 10008	0Ω 5% 0,25W
4274	4822 051 10008	0Ω 5% 0,25W
4402	4822 051 10008	0Ω 5% 0,25W
4403	4822 051 10008	0Ω 5% 0,25W
4404	4822 051 10008	0Ω 5% 0,25W
4406	4822 051 10008	0Ω 5% 0,25W
4407	4822 051 10008	0Ω 5% 0,25W
4408	4822 051 10008	0Ω 5% 0,25W
4409	4822 051 10008	0Ω 5% 0,25W
4511	4822 051 10008	0Ω 5% 0,25W
4512	4822 051 10008	0Ω 5% 0,25W
4530	4822 051 10008	0Ω 5% 0,25W
4531	4822 051 10008	0Ω 5% 0,25W
4533	4822 051 10008	0Ω 5% 0,25W
4601	4822 051 10008	0Ω 5% 0,25W
4802	4822 051 10008	0Ω 5% 0,25W
4803	4822 051 10008	0Ω 5% 0,25W
4804	4822 051 10008	0Ω 5% 0,25W

5202	4822 157 10291	mainsfilter CU28D5
5230▲	4822 148 81192	SOPS transf.
5237	4822 526 10494	ferrite bead
5241	4822 157 62412	27µH 10%
5255▲	4822 148 81225	µSOPS transf.
5260	4822 526 10494	ferrite bead
5308	4822 157 63302	150µH 10%
5310	4822 157 63301	1µH 15%
5381▲	4822 157 52265	100µH 10%
5503	4822 157 63252	line driver
5505	4822 157 51588	0,82µH 20%
5506	4822 157 51588	0,82µH 20%
5507	4822 157 63506	0,09µH
5510	4822 157 62886	33µH 10%
5511	4822 157 52407	39µH 7,5%
5514	4822 157 63256	DC-shift
5520▲	4822 157 63846	linearity corr. 28"
5520▲	4822 156 50091	linearity corr. 32"
5520▲	4822 157 63514	linearity coil 36"
5521▲	4822 157 63847	bridge coil
5521▲	4822 157 63512	linearity corr. 36"
5524	4822 526 10494	ferrite bead

5525	4822 157 52392	27µH 10%
5526▲	4822 157 63513	E/W coil
5527	4822 157 70472	0,56µH 20%
5534	4822 158 10551	27µH 7,5%
5543	4822 157 62412	27µH 10%
5555▲	4822 140 10444	L.O.T. 28"
5555▲	4822 140 10432	L.O.T. 32"
5555▲	4822 140 10426	L.O.T. 36"

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
6016	4822 130 80446	LL4148
6017	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
6220	4822 130 33887	GP15J-16
6221	4822 130 33887	GP15J-16
6230	4822 130 33529	BY229F-200
6232	4822 130 33529	BY229F-200
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 83121	BYD73C
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
6305	4822 130 82334	BAS85
6306	4822 130 34499	BZX79-C20
6308	4822 130 42488	BYD33D
6312	4822 130 42488	BYD33D
6314	4822 130 80446	LL4148
6315	4822 130 80446	LL4148
6318	4822 130 83086	LL4150
6319	5322 130 34898	BZD23-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
6353	4822 130 80446	LL4148
6355	4822 130 80446	LL4148
6356	4822 130 82345	LLZ-C22
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
6422	4822 130 80446	LL4148
6440▲	4822 130 30621	1N4148
6441	4822 130 80446	LL4148
6451▲	4822 130 61219	BZX79-C10
6452	4822 130 42488	BYD33D
6480	4822 130 31554	BZX79-C4V3

6506▲	5322 130 32184	BYV27-50
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6519	4822 130 32896	BYD33M
6520	4822 130 32896	BYD33M
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6530	4822 130 30842	BAV21
6534	4822 130 82512	BYV29F-400
6536	4822 130 82758	BYV29F-300
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 83004	BZX79-A3V9
6570	4822 130 80922	LLZ-C18
6611	4822 130 81027	LLZ-C11
6633	4822 130 81512	LLZ-C6V2
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148
6801	4822 130 80446	LL4148
6802	5322 130 34337	BAV99
6803	4822 130 80446	LL4148
6804	4822 130 80446	LL4148

7000	4822 209 73311	TDA1521Q/N4
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
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
7011	4822 209 63913	TDA1521 AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63366	ON4802
7241	4822 130 61003	BD944F
7242	4822 130 40948	BC548A
7243	4822 130 40948	BC548A
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 62742	BD943F
7270	4822 130 40823	BD135
7273	4822 130 42513	BC858C
7274	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 40982	BD437
7312	4822 130 62955	ON4703-BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	4822 130 42513	BC858C
7369	5322 130 42755	BC847C
7370	5322 130 42136	BC848C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C
7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7417	4822 130 42513	BC858C
7443	4822 130 61207	BC848
7444	4822 130 61207	BC848
7450	4822 209 73308	TDA3654Q/N3
7450	4822 209 30403	TDA3654Q/N3/S1
7451	5322 130 42012	BC858A
7469	4822 130 44283	BC636

Spare parts list / Stückliste / Liste des pièces

7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7506	4822 130 62843	2SC4288A
7512▲	4822 130 41344	BC337-40
7513	4822 130 41327	BC327-40
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 61003	BD944F
7551	4822 130 62846	ON4590
7552	4822 130 62846	ON4590
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 62845	BDT60F
7616	5322 130 42136	BC848C
7618	5322 130 42136	BC848C
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
7800	5322 209 10576	4053B
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848

Large signal panel A B G FL1.16/.17-FL2.16

	4822 266 30359	6P female
	4822 265 40472	10P female gold plated
	4822 290 40295	7P male
	4822 265 40818	8P male
	4822 267 40985	6P male
	4822 264 40207	3P male
▲	4822 265 30389	2P male
▲	4822 265 40596	2P male
	4822 265 20509	2P grey
	4822 265 20512	2P green
	4822 265 20511	2P blue
	4822 265 30953	6P male
	4822 264 50149	10P male gold plated
	4822 265 30984	5P female

Various

	4822 492 70143	spring 10x33mm
	4822 492 62076	spring fix transistor
	4822 492 70788	spring fix IC
	4822 492 70789	spring fix transistor
▲	4822 276 12998	mains switch
▲	4822 256 30496	fuse holder
	5322 390 20011	vet silic.P4 20GR
	4822 290 60812	socket for ext. loudsp.
	4822 276 13094	switch loudsp. ON/OFF
	4822 267 20417	socket for squeeters
1010	4822 212 30195	NTSC panel
1200▲	4822 070 33152	fuse 3,15A

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	5322 122 33446	3,3nF 10% 63V
2011	4822 122 32566	3,9nF 10% 63V
2011	4822 122 31775	680pF 2% 63V
2012	4822 122 32927	220nF +80-20% 50V
2013	4822 122 32927	220nF +80-20% 50V
2014	5322 122 33446	3,3nF 10% 63V
2015	4822 124 42109	22µF 10% 50V
2016	4822 124 42109	22µF 10% 50V
2018	4822 122 31797	22nF 10% 63V
2019	4822 126 12816	10nF +80-20% 100V
2020	4822 126 12816	10nF +80-20% 100V
2021	4822 126 12816	10nF +80-20% 100V
2022	4822 126 12816	10nF +80-20% 100V
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 +80-20% 50V
2027	4822 122 32927	220nF +80-20% 50V
2028	4822 122 32927	220nF +80-20% 50V
2029	4822 122 32927	220nF +80-20% 50V
2030	4822 126 11175	22pF 5% 50V
2031	4822 126 11175	22pF 5% 50V
2032	4822 122 31797	22nF 10% 63V
2033	4822 122 10167	22nF 30% 25V
2034	4822 122 32862	10nF 80% 50V
2035	4822 122 32566	3,9nF 10% 63V
2035	4822 122 31775	680pF 2% 63V
2036	4822 122 31773	560pF 2% 63V
2037	4822 122 31773	560pF 2% 63V
2038	4822 122 31644	2,2nF 10% 63V
2039	4822 122 31765	100pF 2% 63V
2040	4822 122 32927	220nF +80-20% 50V
2041	4822 122 32927	220nF +80-20% 50V
2043	4822 122 32927	220nF +80-20% 50V
2045	4822 122 32927	220nF +80-20% 50V
2046	4822 122 32927	220nF +80-20% 50V
2047	4822 122 32927	220nF +80-20% 50V
2049	4822 122 31965	220pF 2% 63V
2050	4822 124 40433	47µF 20% 25V
2051	4822 124 40433	47µF 20% 25V
2052	4822 124 40433	47µF 20% 25V
2053	4822 124 40433	47µF 20% 25V
2056	4822 122 31773	560pF 2% 63V
2057	4822 122 31773	560pF 2% 63V
2058	4822 122 31773	560pF 2% 63V
2059	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 32856	8,2nF 10% 63V
2231	4822 126 11157	470pF 10% 500V
2232	4822 124 40785	3300µF 20% 25V
2233	4822 126 11157	470pF 10% 500V
2234	4822 124 40785	3300µF 20% 25V
2235	4822 126 11157	470pF 10% 500V
2236	4822 124 80215	1000µF 20% 35V
2237▲	4822 126 12276	2200pF 10%R 2kV
2238	4822 124 22583	47µF 160V
2241	5322 124 41431	22µF 20% 35V
2254	4822 126 11496	120pF 5% 2kV
2255	4822 122 32142	270pF 2% 63V
2258	5322 121 42502	390nF 5% 63V
2260	4822 122 31781	1500pF 10% 50V
2261	4822 124 40255	100µF 20% 63V
2262	4822 122 31727	470pF 2% 63V
2263	4822 124 80605	330µF 20% 50V
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 +-0,5pF 50V
2361	4822 121 42589	82nF 5% 63V
2365	5322 122 32838	82nF 10% 63V
2372	5322 121 42502	390nF 5% 63V
2376	5322 124 41378	33µF 20% 35V
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
2401	4822 122 32542	47nF 10% 63V
2402	4822 124 41576	2,2µF 20% 50V
2403	5322 124 41431	22µF 20% 35V
2404	4822 124 41577	4,7µF 20% 50V
2405	4822 122 32542	47nF 10% 63V
2406	4822 121 51091	1,2nF 2% 250V
2407	4822 122 32153	1,8nF 10% 63V
2408	4822 126 11823	270pF 10% 500V
2409	4822 122 31797	22nF 10% 63V
2410	4822 121 41854	150nF 5% 63V
2411	4822 121 41854	150nF 5% 63V
2412	4822 126 11966	100pF 10% 500V
2415	4822 122 32542	47nF 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
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	4822 124 41334	470µF 20% 35V
2456	4822 124 41747	680µF 20% 35V
2457	4822 124 42251	1,5µF 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 80214	22µF 20% 25V
2502	4822 121 41689	100nF 10% 250V
2503	4822 126 11157	470pF 10% 500V
2504▲	4822 126 12239	560pF 10% 2kV
2505▲	4822 126 12269	680pF 10% 2kV
2509▲	4822 126 12273	1200pF 10% 2kV
2511	4822 121 43368	47µF 160V
2512	4822 124 41596	22µF 20% 50V
2513	4822 124 41596	22µF 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 51528	470nF 5% 250V
2520	4822 121 70281	510nF 5% 400V
2521	4822 121 51563	560nF 5% 250V
2523	4822 122 50118	8,2nF
2524	4822 121 43915	27nF 5% 630V
2529	4822 124 22467	2,2µF 20% 50V
2530	4822 122 31797	22nF 10% 63V
2531	4822 121 40516	22nF 10% 250V
2533	5322 122 32818	2,2nF 10% 100V
2534	4822 126 11502	470pF 10% 500V
2535	4822 124 23488	1000µF 20% 35V
2536	4822 122 31175	1nF 10% 500V
2537	4822 124 40201	1000µF 20% 16V
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 33498	2,7nF 10% 63V
2552	4822 122 33496	100nF 10% 63V
2553	4822 122 33496	100nF 10% 63V
2554▲	4822 124 41525	100µF 20% 25V
2555	4822 122 32891	68nF 10% 63V
2556	4822 124 41584	100µF 20% 10V
2600	4822 124 41577	4,7µF 20% 50V
2601	4822 122 31797	22nF 10% 63V
2603	4822 122 32891	68nF 10% 63V
2603	4822 122 32542	47nF 10% 63V
2603	4822 122 33496	100nF 10% 63V
2605	4822 122 31781	1500pF 10% 50V
2605	4822 122 33498	2,7nF 10% 63V
2605	4822 122 31644	2,2nF 10% 63V
2606	4822 122 33496	100nF 10% 63V
2609	4822 121 43396	120nF 5% 63V
2610	4822 124 41576	2,2µF 20% 50V
2611	4822 124 40763	2,2µF 20% 100V
2613	4822 122 31784	4,7nF 10% 50V
2615	4822 122 10175	2,2nF 10% 50V

3000	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10912	9k1 2% 0,25W
3001	4822 051 10153	15k 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10104	100k 2% 0,25W
3006	4822 051 10204	200k 2% 0,25W
3009	4822 051 10204	200k 2% 0,25W
3011	4822 051 10203	20k 2% 0,25W
3012	4822 051 10203	20k 2% 0,25W
3013	4822 116 52268	300k 5% 0,5W
3014	4822 116 52268	300k 5% 0,5W
3016▲	4822 052 10828	8Ω2 5% 0,33W
3021▲	4822 052 10828	8Ω2 5% 0,33W
3022▲	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
3043	4822 051 10203	20k 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	
3053	4822	
3054▲	4822	
3060	4822	
3061	4822	
3065	4822	
3066	4822	
3067	4822	
3068	4822	
3069	4822	
3072	4822	
3073	4822	
3074	4822	
3201▲	4822	
3202▲	4822	
3203	4822	
3204	4822	
3204	4822	
3209▲	4822	
3210	4822	
3211	4822	
3212	4822	
3213	4822	
3216▲	4822	
3230▲	4822	
3234	4822	
3235▲	4822	
3236	4822	
3237	4822	
3239	4822	
3240	4822	
3241	4822	
3243▲	4822	
3247	4822	
3248	4822	
3249	4822	
3250▲	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	
3317	4822	
3320	4822	
3321	4822	
3322	4822	
3331	4822	
3332	4822	
3351	4822	
3356	4822	
3357	4822	
3358	4822	
3360	4822	
3362	4822	
3364	4822	

10% 500V	3052	4822 051 10472	4k7 2% 0,25W	3365	4822 051 10221	220Ω 2% 0,25W	3466	4822 116 52243	1k5 5% 0,5W	3560▲	4822 052 10108	1Ω 5% 0,33W
0% 350V	3053	4822 051 10472	4k7 2% 0,25W	3366	4822 051 10221	220Ω 2% 0,25W	3466	4822 116 52263	2k7 5% 0,5W	3561	4822 051 10152	1k5 2% 0,25W
% 160V	3054▲	4822 053 21475	4M7 5% 0,5W	3368	4822 116 52226	560Ω 5% 0,5W	3466	4822 116 52279	4k3 5% 0,5W	3562	4822 051 51102	1k1 1% 0,125W
5% 250V	3060	4822 051 10203	20k 2% 0,25W	3369	4822 116 52226	560Ω 5% 0,5W	3467	4822 100 20166	10k 30% lin	3563	4822 051 10122	1k2 2% 0,25W
5% 400V	3061	4822 051 10201	200Ω 2% 0,25W	3370	4822 051 10332	3k3 2% 0,25W	3468	4822 053 12221	220Ω 5% 3W	3600	4822 051 10912	9k1 2% 0,25W
5% 250V	3065	4822 051 10184	180k 2% 0,25W	3371	4822 100 11348	1k 30% lin	3469	4822 050 11002	1k 1% 0,4W	3600	4822 051 10133	13k 2% 0,25W
	3066	4822 051 10184	180k 2% 0,25W	3372	4822 051 10561	560Ω 2% 0,25W	3469	4822 116 52263	2k7 5% 0,5W	3601	4822 051 10104	100k 2% 0,25W
% 630V	3067	4822 116 52289	5k6 5% 0,5W	3374	4822 116 52301	75k 5% 0,5W	3469	4822 116 52279	4k3 5% 0,5W	3601	4822 051 10154	150k 2% 0,25W
0% 50V	3068	4822 116 52207	1k2 5% 0,5W	3375▲	4822 051 10242	2k4 2% 0,25W	3471	4822 051 20222	2k2 5% 0,1W	3602	4822 100 20166	10k 30% lin
0% 63V	3069	4822 051 10272	2k7 2% 0,25W	3376	4822 116 52175	100Ω 5% 0,5W	3471	4822 051 10182	1k8 2% 0,25W	3603	4822 051 10153	15k 2% 0,25W
0% 250V	3072	4822 051 10479	47Ω 2% 0,25W	3378	4822 051 10101	100Ω 2% 0,25W	3473	4822 116 52253	2k 5% 0,5W	3603	4822 051 10123	12k 2% 0,25W
0% 100V	3073	4822 116 52257	22k 5% 0,5W	3380	4822 051 10152	1k5 2% 0,25W	3479	4822 051 10683	68k 2% 0,25W	3603	4822 051 20183	18k 5% 0,1W
10% 500V	3074	4822 051 10103	10k 2% 0,25W	3381	4822 051 10152	1k5 2% 0,25W	3480	4822 116 52234	100k 5% 0,5W	3603	4822 051 10203	20k 2% 0,25W
20% 35V	3201▲	4822 053 21475	4M7 5% 0,5W	3382	4822 051 10103	10k 2% 0,25W	3481	4822 051 10102	1k 2% 0,25W	3604	4822 051 10134	130k 2% 0,25W
% 500V	3202▲	4822 053 21825	8M2 5% 0,5W	3383	4822 051 10103	10k 2% 0,25W	3482	4822 051 10229	22Ω 2% 0,25W	3604	4822 051 10164	160k 2% 0,25W
20% 16V	3203	4822 111 41573	470Ω 10% 0,5W	3385	4822 051 10223	22k 2% 0,25W	3483	4822 051 10563	56k 2% 0,25W	3604	4822 051 10184	180k 2% 0,25W
0% 25V	3204	4822 116 40138	PTC	3402	4822 051 10562	5k6 2% 0,25W	3484	4822 051 10223	22k 2% 0,25W	3605	4822 051 10133	13k 2% 0,25W
% 50V	3204	4822 116 40215	PTC/NTC	3403	4822 051 10229	22Ω 2% 0,25W	3485	4822 051 10102	1k 2% 0,25W	3605	4822 051 10243	24k 2% 0,25W
0% 25V	3209▲	4822 113 80603	1,5Ω 10% 7W	3404	4822 051 10182	1k8 2% 0,25W	3500	4822 116 52224	470Ω 5% 0,5W	3606	4822 051 10333	33k 2% 0,25W
10% 63V	3210	4822 116 52239	120k 5% 0,5W	3405	4822 051 10333	33k 2% 0,25W	3501	4822 051 10392	3k9 2% 0,25W	3606	4822 051 10223	22k 2% 0,25W
0% 63V	3211	4822 116 52239	120k 5% 0,5W	3406	4822 100 11483	10k 30% lin	3502	4822 116 52299	7k5 5% 0,5W	3607	4822 100 11213	22k 30% lin
10% 63V	3212	4822 116 52234	100k 5% 0,5W	3407	4822 051 10561	560Ω 2% 0,25W	3503	4822 116 52299	7k5 5% 0,5W	3608	4822 051 10103	10k 2% 0,25W
10% 63V	3213	4822 051 10823	82k 2% 0,25W	3408	4822 051 10563	56k 2% 0,25W	3504	4822 053 11108	1Ω 5% 2W	3609	4822 051 10473	47k 2% 0,25W
20% 25V	3216▲	4822 115 90309	56Ω 10% 5W	3409	4822 116 52292	560k 5% 0,5W	3505	4822 116 52191	33Ω 5% 0,5W	3610	4822 051 10472	4k7 2% 0,25W
0% 63V	3230▲	4822 052 10108	1Ω 5% 0,33W	3409	4822 116 52288	510k 5% 0,5W	3505	4822 116 52195	47Ω 5% 0,5W	3611	4822 051 20222	2k2 5% 0,1W
20% 10V	3234	4822 100 11348	1k 30% lin	3410	4822 100 11213	22k 30% lin	3506	4822 053 11108	1Ω 5% 2W	3614	4822 116 52243	1k5 5% 0,5W
0% 50V	3235▲	4822 051 10008	0Ω 5% 0,25W	3411	4822 051 10104	100k 2% 0,25W	3507	4822 116 52191	33Ω 5% 0,5W	3615	4822 116 52224	470Ω 5% 0,5W
0% 63V	3236	4822 051 10681	680Ω 2% 0,25W	3411	4822 051 10913	91k 2% 0,25W	3507	4822 116 52195	47Ω 5% 0,5W	3616	4822 051 10332	3k3 2% 0,25W
0% 63V	3237	4822 051 10101	100Ω 2% 0,25W	3411	4822 051 10124	120k 2% 0,25W	3508	4822 116 82773	1k8 10% 5W	3617	4822 051 20222	2k2 5% 0,1W
0% 63V	3239	4822 116 52297	68k 5% 0,5W	3413	4822 051 10101	100Ω 2% 0,25W	3508	4822 116 83003	1k5 10% 5W	3618	4822 051 10683	68k 2% 0,25W
10% 63V	3240	4822 116 52297	68k 5% 0,5W	3414	4822 051 10154	150k 2% 0,25W	3509	4822 053 21154	150k 5% 0,5W	3619	4822 051 20222	2k2 5% 0,1W
10% 50V	3241	4822 113 80602	5,6Ω 10% 5W	3415	4822 100 11392	47k 30% lin	3510	4822 113 80592	150Ω 10% 5W	3620	4822 051 10622	6k2 2% 0,25W
0% 63V	3243▲	4822 053 10221	220Ω 5% 1W	3416	4822 116 81223	1M2 5% 0,5W	3512	4822 051 10331	330Ω 2% 0,25W	3621	4822 051 10164	160k 2% 0,25W
0% 63V	3247	4822 051 10122	1k2 2% 0,25W	3417	4822 116 52256	2k2 5% 0,5W	3513	4822 100 11319	4k7 30% lin	3622	4822 116 80176	1Ω 5% 0,5W
10% 63V	3248	4822 051 10562	5k6 2% 0,25W	3418	4822 051 10201	200Ω 2% 0,25W	3514	4822 116 52189	30Ω 5% 0,5W	3623	4822 116 80176	1Ω 5% 0,5W
5% 63V	3249	4822 116 52258	220k 5% 0,5W	3419!	4822 052 10229	22Ω 5% 0,33W	3515▲	4822 052 10108	1Ω 5% 0,33W	3626	4822 116 52267	30k 5% 0,5W
20% 50V	3250▲	4822 116 52199	68Ω 5% 0,5W	3420	4822 050 23905	3M9 1% 0,6W	3516▲	4822 052 10108	1Ω 5% 0,33W	3627	4822 051 10103	10k 2% 0,25W
20% 100V	3250	4822 116 52198	62Ω 5% 0,5W	3421	4822 116 52263	2k7 5% 0,5W	3517▲	4822 052 11108	1Ω 5% 0,5W	3628	4822 116 52284	47k 5% 0,5W
0% 50V	3251	4822 051 10102	1k 2% 0,25W	3422	4822 116 81223	1M2 5% 0,5W	3518	4822 116 52267	30k 5% 0,5W	3629	4822 051 10224	220k 2% 0,25W
0% 50V	3252	4822 116 52258	220k 5% 0,5W	3422	4822 116 81783	1M5 5% 0,5W	3519	4822 116 52267	30k 5% 0,5W	3630	4822 051 10104	100k 2% 0,25W
	3253	4822 116 82738	10k 10% 5W	3423	4822 116 52305	820k 5% 0,5W	3520▲	4822 052 11471	470Ω 5% 0,5W	3631	4822 051 10182	1k8 2% 0,25W
	3255	4822 116 52243	1k5 5% 0,5W	3423	4822 116 52235	1M 5% 0,5W	3521▲	4822 052 11471	470Ω 5% 0,5W	3632	4822 051 10101	100Ω 2% 0,25W
0,25W	3266	4822 051 10151	150Ω 2% 0,25W	3424	4822 051 10221	220Ω 2% 0,25W	3522▲	4822 052 11102	1k 5% 0,5W	3632	4822 051 10153	15k 2% 0,25W
0,25W	3267	4822 051 10101	100Ω 2% 0,25W	3425	4822 051 10124	120k 2% 0,25W	3524	4822 116 81753	4Ω7 5% 0,5W	3633	4822 051 10244	240k 2% 0,25W
0,25W	3268	4822 115 10129	27Ω 10% 5W	3426	4822 051 10331	330Ω 2% 0,25W	3525	4822 116 80176	1Ω 5% 0,5W	3633	4822 051 10104	100k 2% 0,25W
% 0,25W												
% 0,25W	3270	4822 051 10108	1Ω 5% 0,25W	3427	4822 051 10474	470k 2% 0,25W	3526	4822 053 10688	6Ω8 5% 1W	3633	4822 051 10204	200k 2% 0,25W
	3271	4822 053 10399	39Ω 5% 1W	3428	4822 116 52271	33k 5% 0,5W	3527	4822 051 10102	1k 2% 0,25W	3634	4822 051 10473	47k 2% 0,25W
% 0,25W	3272	4822 051 51201	120Ω 1% 0,125W	3429	4822 050 11002	1k 1% 0,4W	3528	4822 116 52207	1k2 5% 0,5W	3650	4822 051 20183	18k 5% 0,1W
% 0,25W	3273	4822 051 10472	4k7 2% 0,25W	3430	4822 051 10103	10k 2% 0,25W	3529	4822 051 10104	100k 2% 0,25W	3651	4822 051 10102	1k 2% 0,25W
0,25W	3275	4822 116 52206	120Ω 5% 0,5W	3431	4822 051 10333	33k 2% 0,25W	3530	4822 051 10474	470k 2% 0,25W	3652	4822 051 10822	8k2 2% 0,25W
0,25W												
% 0,5W	3300	4822 053 10753	75k 5% 1W	3437	4822 116 52224	470Ω 5% 0,5W	3532▲	4822 050 23301	330Ω 1% 0,6W	3653	4822 051 10104	100k 2% 0,25W
	3304	4822 051 10473	47k 2% 0,25W	3438	4822 116 52175	100Ω 5% 0,5W	3533▲	4822 050 23301	330Ω 1% 0,6W	3654	4822 051 20222	2k2 5% 0,1W
% 0,5W	3305	4822 051 10113	11k 2% 0,25W	3439	4822 116 52247	16k 5% 0,5W	3534▲	4822 052 10278	2Ω7 5% 0,33W	3655	4822 051 20222	2k2 5% 0,1W
% 0,33W	3306	4822 051 10823	82k 2% 0,25W	3440	4822 051 20222	2k2 5% 0,1W	3535▲	4822 052 10278	2Ω7 5% 0,33W	3656	4822 051 10103	10k 2% 0,25W
% 0,33W	3308	4822 053 12151	150Ω 5% 3W	3441	4822 051 10622	6k2 2% 0,25W	3536	4822 116 52221	360Ω 5% 0,5W			
% 0,33W										**Jumper**		
0,25W	3309	4822 051 10103	10k 2% 0,25W	3442	4822 051 10332	3k3 2% 0,25W	3537	4822 116 52189	30Ω 5% 0,5W			
	3310	4822 116 52184	18Ω 5% 0,5W	3443	4822 051 10112	1k1 2% 0,25W	3538	4822 050 21203	12k 1% 0,6W	4000	4822 051 10008	0Ω 5% 0,25W
0,25W	3311	4822 051 10471	470Ω 2% 0,25W	3444	4822 051 10103	10k 2% 0,25W	3540	4822 116 52267	30k 5% 0,5W	4001	4822 051 10008	0Ω 5% 0,25W
0,25W	3312	4822 051 10101	100Ω 2% 0,25W	3446	4822 051 10273	27k 2% 0,25W	3541	4822 116 52285	470k 5% 0,5W	4002	4822 051 10008	0Ω 5% 0,25W
0,25W	3313	4822 116 52184	18Ω 5% 0,5W	3450	4822 051 10432	4k3 2% 0,25W	3542	4822 051 10104	100k 2% 0,25W	4003	4822 051 10008	0Ω 5% 0,25W
0,25W										4004	4822 051 10008	0Ω 5% 0,25W
0,25W	3314	4822 116 52175	100Ω 5% 0,5W	3451	4822 051 10432	4k3 2% 0,25W	3543	4822 051 10152	1k5 2% 0,25W			
	3317	4822 051 10682	6k8 2% 0,25W	3452▲	4822 052 10159	15Ω 5% 0,33W	3544	4822 051 10393	39k 2% 0,25W	4006	4822 051 10008	0Ω 5% 0,25W
0,5W	3320	4822 051 10471	470Ω 2% 0,25W	3455	4822 051 10471	470Ω 2% 0,25W	3545	4822 116 52208	130Ω 5% 0,5W	4007	4822 051 10008	0Ω 5% 0,25W
0,25W	3321	4822 051 10471	470Ω 2% 0,25W	3456	4822 051 10124	120k 2% 0,25W	3547	4822 051 10518	5Ω1 5% 0,25W	4010	4822 051 10008	0Ω 5% 0,25W
0,25W	3322	4822 051 10471	470Ω 2% 0,25W	3456	4822 051 10134	130k 2% 0,25W	3548	4822 051 10392	3k9 2% 0,25W	4011	4822 051 10008	0Ω 5% 0,25W
0,25W										4012	4822 051 10008	0Ω 5% 0,25W
0,25W	3331	4822 116 52267	30k 5% 0,5W	3457	4822 051 10822	8k2 2% 0,25W	3549	4822 051 10124	120k 2% 0,25W			
	3332	4822 116 52233	10k 5% 0,5W	3457	4822 051 10912	9k1 2% 0,25W	3550	4822 051 10102	1k 2% 0,25W	4019	4822 051 10008	0Ω 5% 0,25W
0,25W	3351	4822 052 11279	27Ω 5% 0,5W	3458▲	4822 116 80676	1Ω5 5% 0,5W	3553▲	4822 053 11479	47Ω 5% 2W	4039	4822 051 10008	0Ω 5% 0,25W
0,25W	3356	4822 051 10681	680Ω 2% 0,25W	3459▲	4822 116 80676	1Ω5 5% 0,5W	3554▲	4822 051 10008	0Ω 5% 0,25W	4274	4822 051 10008	0Ω 5% 0,25W
0,25W	3357	4822 050 27871	787Ω 1% 0,6W	3460	4822 053 10271	270Ω 5% 1W	3555	4822 051 10681	680Ω 2% 0,25W	4400	4822 051 10008	0Ω 5% 0,25W
% 0,25W										4410	4822 051 10008	0Ω 5% 0,25W
0,25W	3358	4822 116 52183	16Ω 5% 0,5W	3461	4822 116 80176	1Ω 5% 0,5W	3556▲	4822 051 10008	0Ω 5% 0,25W			
	3360	4822 051 10122	1k2 2% 0,25W	3462	4822 116 80176	1Ω 5% 0,5W	3557	4822 051 10182	1k8 2% 0,25W	4412	4822 051 10008	0Ω 5% 0,25W
0,25W	3362	4822 051 10151	150Ω 2% 0,25W	3463	4822 116 80176	1Ω 5% 0,5W	3558	4822 100 11348	1k 30% lin	4413	4822 051 10008	0Ω 5% 0,25W
0,25W	3364	4822 051 10471	470Ω 2% 0,25W	3465	4822 051 10681	680Ω 2% 0,25W	3559	4822 051 10182	1k8 2% 0,25W	4415	4822 051 10008	0Ω 5% 0,25W

Spare parts list / Stückliste / Liste des pièces

; 0,33W
% 0,25W
% 0,125W
% 0,25W
% 0,25W

% 0,25W
2% 0,25W
2% 0,25W
0% lin
% 0,25W

% 0,25W
% 0,1W
% 0,25W
2% 0,25W
2% 0,25W

2% 0,25W
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% 0,25W
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0% lin
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Jumper

4416	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4420	4822 051 10008	0Ω 5% 0,25W
4421	4822 051 10008	0Ω 5% 0,25W
4465	4822 051 10008	0Ω 5% 0,25W
4467	4822 051 10008	0Ω 5% 0,25W
4469	4822 051 10008	0Ω 5% 0,25W
4507	4822 051 10008	0Ω 5% 0,25W
4517	4822 051 10008	0Ω 5% 0,25W
4518	4822 051 10008	0Ω 5% 0,25W
4519	4822 051 10008	0Ω 5% 0,25W
4521	4822 051 10008	0Ω 5% 0,25W
4522	4822 051 10008	0Ω 5% 0,25W
4525	4822 051 10008	0Ω 5% 0,25W
4527	4822 051 10008	0Ω 5% 0,25W
4528	4822 051 10008	0Ω 5% 0,25W
4529	4822 051 10008	0Ω 5% 0,25W
4530	4822 051 10008	0Ω 5% 0,25W
4531	4822 051 10008	0Ω 5% 0,25W
4533	4822 051 10008	0Ω 5% 0,25W
4534	4822 051 10008	0Ω 5% 0,25W

5204	4822 157 10291	mainsfilter CU28D5
5230▲	4822 148 81192	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 63696	18μH 10%
5255▲	4822 148 81225	μSOPS transf.
5260	4822 526 10494	ferrite bead
5262	4822 526 10494	ferrite bead
5308	4822 157 70001	180μH 10%
5310	4822 157 51195	1μH 20%
5381▲	4822 157 52265	100μH 10%
5503	4822 157 63252	line driver
5510	4822 157 62412	27μH 10%
5511	4822 157 52407	39μH 7,5%
5514	4822 157 70006	DC-shift
5521	4822 157 63255	bridge coil
5522	4822 156 50107	linearity corr.
5524	4822 526 10494	ferrite bead
5526	4822 157 63253	choke
5527	4822 157 70472	0,56μH 20%
5534	5322 157 52539	15μH 7,5%
5543	4822 157 62412	27μH 10%
5555▲	4822 140 10443	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
6016	4822 130 80446	LL4148
6017	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 D23-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
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 81143	LLZ-C20
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6405	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6440	4822 130 80446	LL4148
6441	4822 130 80446	LL4148
6451	5322 130 34834	BZX79-C3V6
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6467	4822 130 80446	LL4148
6480	4822 130 31554	BZX79-C4V3
6504	4822 130 42488	BYD33D
6506	4822 130 42488	BYD33D
6507	4822 130 83086	LL4150
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6519▲	4822 130 32896	BYD33M
6520▲	4822 130 32896	BYD33M
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6535	4822 130 82512	BYV29F-400
6536	4822 130 80982	BYW29F-100
6538	4822 130 80954	LLZ-C5V6
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 80954	LLZ-C5V6
6629	4822 130 80446	LL4148
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148

7000	4822 209 73311	TDA1521Q/N4
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
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
7011	4822 209 63913	TDA1521AQ/N4
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 44349	BC635
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	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 62955	ON4703-BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
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 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7444	5322 130 42136	BC848C
7445	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44283	BC636
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7504	4822 209 63912	ON4673
7506	4822 209 63912	ON4673
7512	4822 130 41109	BD135-16
7513	4822 130 41194	BD136-16
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63085	BD944F-ON4743
7551	4822 209 70672	LM358N
7552	5322 130 44349	BC635
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 62845	BDT60F
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 CDFH

Various

4822 265 40252	7P male
4822 265 40253	8P male
4822 267 50637	10P grey
4822 265 41086	9P male
4822 265 41114	9P
4822 265 41082	10P flexcon.
4822 290 40295	7P male
4822 265 30378	4P male
4822 267 41095	5P male
4822 265 41326	10P male hor.
4822 264 40207	3P male
4822 267 51242	10P male vert.
4822 265 31009	3P pinstrip
4822 265 20512	2P green
4822 290 61116	9P pinstrip
4822 265 40442	10P male
4822 265 41335	11P
4822 267 40666	3P male vert.
4822 265 20509	2P grey
4822 265 30828	5P male vert.
4822 265 30899	5P male black
4822 267 40696	3P male white
4822 265 31112	5P male hor.
4822 265 31101	3P male hor.
4822 267 20427	socket SCART +4xcinch
4822 267 20411	socket SCART +2xcinch
4822 267 41005	socket 2xcinch +2xSVHS
4822 267 20409	socket 2xcinch +1xSVHS

Various

	4822 267 20408	socket headph. +cinch
	4822 267 51058	socket SCART
	4822 267 41004	socket headph. +cinch+SVHS
	4822 267 51112	socket D2B
	4822 218 21084	keyboard
	4822 255 40901	IC socket 40P
1100	4822 212 23281	IR receiver
1107	4822 242 71711	filter 6MHz
1160	4822 210 10548	FQ916ME/BL
1160	4822 210 10558	FQ916MF/LIF
1160	4822 210 10556	FQ944/LIF
1160	4822 210 10549	FQ916DME/B
1160	4822 210 10557	FQ916DMF/IF
1160	4822 210 10555	FQ944D/IF
1162	4822 212 30145	SAT IF 12MHz
1162	4822 212 30146	SAT IF 8MHz
1248	4822 242 80364	filter 4,43MHz
1379	4822 242 70736	crystal 7,159 090 MHz
1380	4822 242 70304	crystal 8,867 238 MHz
1602	4822 242 80276	crystal 10MHz

2100	4822 124 40684	150μF 20% 6,3V
2103	4822 122 31765	100pF 2% 63V
2107	4822 126 11544	22nF 63V
2111	4822 126 11544	22nF 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	22nF 63V
2121	5322 122 31647	1nF 10% 63V
2122▲	4822 122 32442	10nF 50V
2123	4822 126 11804	330nF
2124	4822 126 11544	22nF 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
2141	4822 121 42408	220nF 5% 63V
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
2165	4822 122 31947	100nf 20% 63V
2168	4822 122 32927	220nF +80-20% 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
2180	4822 122 31947	100nF 20% 63V
2181	4822 126 11544	22nF 63V
2188	4822 126 11544	22nF 63V
2189	4822 126 11544	22nF 63V
2190	4822 121 41856	22nF 5% 250V
2191	4822 126 11544	22nF 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 +80-20% 50V
2219	4822 122 32927	220nF +80-20% 50V
2221	4822 126 12075	680pF 2% 63V
2234	4822 122 32927	220nF +80-20% 50V
2240	4822 122 32927	220nF +80-20% 50V
2241	4822 121 42408	220nF 5% 63V
2242▲	4822 124 40196	220μF 20% 16V
2243	4822 121 42408	220nF 5% 63V

Spare parts list / Stückliste / Liste des pièces

245	4822 122 32927	220nF +80-20% 50V
249	4822 122 32862	10nF 80% 50V
250	4822 051 10102	1K 2% 0,25W
250	4822 122 31947	100nF 20% 63V
251	4822 122 31947	100nF 20% 63V
252	4822 121 42408	220nF 5% 63V
253	4822 126 11492	220nF 10% 50V
254	4822 122 32927	220nF +80-20% 50V
255	4822 124 41643	100µF 20% 16V
257	4822 122 31947	100nF 20% 63V
258	4822 122 31765	100pF 2% 63V
260	4822 122 31947	100nF 20% 63V
261	4822 122 31947	100nF 20% 63V
268	4822 122 31947	100nF 20% 63V
269	4822 122 32482	22pF 2% 63V
270	4822 126 11544	22nF 63V
274	4822 122 32862	10nF 80% 50V
301	5322 122 31647	1nF 10% 63V
305	4822 126 10324	33pF 2% 63V
306	4822 122 31772	47pF 2% 63V
312	4822 126 11544	22nF 63V
318	4822 121 42408	220nF 5% 63V
324	4822 126 11544	22nF 63V
338	4822 122 31772	47pF 2% 63V
342	4822 122 31972	39pF 2% 63V
343	4822 122 31727	470pF 2% 63V
344	4822 122 31775	680pF 2% 63V
345	4822 122 31807	1200pF 2% 63V
347	5322 122 31647	1nF 10% 63V
353	4822 122 32862	10nF 80% 50V
360	4822 124 40272	33µF 20% 16V
361	4822 124 40849	330µF 20% 16V
365	4822 122 31352	180pF 2% 100V
366	4822 126 11544	22nF 63V
367	4822 122 32862	10nF 80% 50V
368	4822 122 32862	10nF 80% 50V
369	4822 122 31825	27pF 2% 63V
371	4822 122 31825	27pF 2% 63V
372	4822 122 31965	220pF 2% 63V
373	4822 122 31965	220pF 2% 63V
374	4822 126 11544	22nF 63V
375	4822 126 11544	22nF 63V
376	4822 126 11544	22nF 63V
377	5322 121 42661	330nF 5% 63V
378	4822 122 31947	100nF 20% 63V
379	4822 125 50207	33pF trim
380	4822 125 50207	33pF trim
381	5322 121 42661	330nF 5% 63V
382	5322 122 31647	1nF 10% 63V
383▲	4822 122 32442	10nF 50V
384	5322 122 31647	1nF 10% 63V
385▲	4822 122 32442	10nF 50V
387	4822 124 40435	10µF 20% 50V
388	5322 122 33446	3,3nF 10% 63V
390	4822 126 11544	22nF 63V
391	4822 126 11544	22nF 63V
392	4822 126 11544	22nF 63V
395	4822 126 11544	22nF 63V
396	4822 122 32927	220nF +80-20% 50V
397	4822 126 11544	22nF 63V
398	4822 124 40435	10µF 20% 50V
399	4822 124 40433	47µF 20% 25V
400	4822 126 11544	22nF 63V
433	4822 126 11544	22nF 63V
434	5322 122 33446	3,3nF 10% 63V
435	5322 122 33446	3,3nF 10% 63V
436	4822 122 31961	68pF 2% 63V
438	4822 126 11544	22nF 63V
440	4822 126 11544	22nF 63V
442	4822 126 11544	22nF 63V
445	4822 126 11804	330nF

2446	4822 126 11804	330nF
2447	4822 126 11804	330nF
2451	5322 121 42661	330nF 5% 63V
2452	4822 124 22466	1µF 20% 50V
2452	4822 124 40749	3,3µF 20% 63V
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 41577	4,7µF 20% 50V
2478	4822 122 31784	4,7nF 10% 50V
2479	4822 122 32183	56nF 10% 50V
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 +80-20% 50V
2620	4822 122 32927	220nF +80-20% 50V
2622	4822 122 32927	220nF +80-20% 50V
2624	5322 122 31842	330pF 2% 63V
2626	4822 122 32927	220nF +80-20% 50V
2627	5322 124 41431	22µF 20% 35V
2628	5322 122 31842	330pF 2% 63V
2630	4822 122 32927	220nF +80-20% 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 +80-20% 50V
2644	5322 122 31842	330pF 2% 63V
2646	4822 122 32927	220nF +80-20% 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	15nF 10% 50V
2690	4822 122 31782	15nF 10% 50V
2692	4822 122 31981	33nF +-0,5pF 50V
2694	4822 122 31916	5,6nF 10% 63V
2696	4822 122 31981	33nF +-0,5pF 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	22nF 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	22nF 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
3102	4822 051 10101	100Ω 2% 0,25W
3103	4822 051 10101	100Ω 2% 0,25W
3104	4822 116 52175	100Ω 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10104	100k 2% 0,25W
3109	4822 051 10271	270Ω 2% 0,25W
3110	4822 051 10101	100Ω 2% 0,25W
3111	4822 051 10101	100Ω 2% 0,25W
3112	4822 050 11002	1k 1% 0,4W
3113	4822 116 52175	100Ω 5% 0,5W
3114	4822 116 52175	100Ω 5% 0,5W
3115	4822 116 52175	100Ω 5% 0,5W
3116	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
3122	4822 051 10123	12k 2% 0,25W
3123	4822 051 10103	10k 2% 0,25W
3123	4822 051 10123	12k 2% 0,25W
3124	4822 051 10101	100Ω 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W
3126	4822 051 10101	100Ω 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3130	4822 051 10101	100Ω 2% 0,25W
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
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
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 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
3216▲	4822 116 81193	15Ω 5% 0,3W
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
3242▲	4822 116 52219	330Ω 5% 0,5W
3243	4822 051 10152	1k5 2% 0,25W
3244	4822 051 10102	1k 2% 0,25W
3245	4822 051 10474	470k 2% 0,25W
3246	4822 051 10331	330Ω 2% 0,25W
3247	4822 051 10102	1k 2% 0,25W
3248	4822 051 10681	680Ω 2% 0,25W
3249	4822 051 10102	1k 2% 0,25W
3251	4822 051 10759	75Ω 2% 0,25W
3252	4822 051 10759	75Ω 2% 0,25W
3253	4822 051 10331	330Ω 2% 0,25W
3254▲	4822 052 10828	8Ω2 5% 0,33W
3254▲	4822 116 81193	15Ω 5% 0,3W
3255	4822 051 10821	820Ω 2% 0,25W
3259	4822 051 10103	10k 2% 0,25W
3260▲	4822 052 10828	8Ω2 5% 0,33W
3260▲	4822 116 81193	15Ω 5% 0,3W
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
3265	4822 051 10103	10k 2% 0,25W
3266	4822 051 10103	10k 2% 0,25W
3267	4822 051 10103	10k 2% 0,25W
3268	4822 051 10101	100Ω 2% 0,25W
3269	4822 051 10561	560Ω 2% 0,25W
3270	4822 051 10472	4k7 2% 0,25W
3271	4822 051 10471	470Ω 2% 0,25W
3272	4822 116 52228	680Ω 5% 0,5W
3273	4822 051 10471	470Ω 2% 0,25W
3274	4822 051 10103	10k 2% 0,25W
3275	4822 051 10689	68Ω 2% 0,25W
3276	4822 051 10471	470Ω 2% 0,25W
3277	4822 051 10271	270Ω 2% 0,25W

3278	4822	
3279	4822	
3280	4822	
3281	4822	
3285	4822	
3285	4822	
3286	4822	
3286	4822	
3287	4822	
3287	4822	
3288	4822	
3288	4822	
3300	4822	
3301	4822	
3303	4822	
3304	4822	
3305	4822	
3306	4822	
3310▲	4822	
3316	4822	
3325	4822	
3326	4822	
3326	4822	
3327	4822	
3336	4822	
3338	4822	
3339	4822	
3342	4822	
3344	4822	
3345	4822	
3350	4822	
3351	4822	
3353	4822	
3360▲	4822	
3361	4822	
3369	4822	
3370	4822	
3371	4822	
3372	4822	
3375	4822	
3377	4822	
3380	4822	
3382	4822	
3383	4822	
3387	4822	
3389	4822	
3391	4822	
3392	4822	
3393	4822	
3394	4822	
3395	4822	
3396	4822	
3397	4822	
3397	4822	
3398	4822	
3399	4822	
3410	4822	
3425	4822	
3426	4822	
3439	4822	
3441	4822	
3443	4822	
3450	4822	
3451	4822	
3451	4822	
3453	4822	
3454	4822	
3455	4822	
3456	4822	
3465	4822	
3466	4822	
3471	4822	
3472	4822	
3473	4822	

› 0,5W	3278	4822 051 10273	27k 2% 0,25W	
% 0,125W	3279	4822 051 10689	68Ω 2% 0,25W	
% 0,25W	3280	4822 051 10273	27k 2% 0,25W	
› 0,5W	3281	4822 116 52201	75Ω 5% 0,5W	
› 0,25W	3285	4822 051 10103	10k 2% 0,25W	
0,25W	3285	4822 051 10123	12k 2% 0,25W	
0,25W	3286	4822 051 10103	10k 2% 0,25W	
0,25W	3286	4822 051 10123	12k 2% 0,25W	
› 0,25W	3287	4822 051 10103	10k 2% 0,25W	
% 0,25W	3287	4822 051 10123	12k 2% 0,25W	
% 0,25W	3288	4822 051 10103	10k 2% 0,25W	
0,25W	3288	4822 051 10123	12k 2% 0,25W	
0,25W	3300	4822 051 10103	10k 2% 0,25W	
0,25W	3301	4822 051 10332	3k3 2% 0,25W	
› 0,25W	3303	4822 051 10361	360Ω 2% 0,25W	
› 0,25W	3304	4822 051 10101	100Ω 2% 0,25W	
› 0,25W	3305	4822 051 10104	100k 2% 0,25W	
% 0,25W	3306	4822 051 10361	360Ω 2% 0,25W	
% 0,25W	3310▲	4822 116 52283	4k7 5% 0,5W	
% 0,25W	3316	4822 051 10112	1k1 2% 0,25W	
% 0,5W	3325	4822 051 10682	6k8 2% 0,25W	
› 0,25W	3326	4822 051 10332	3k3 2% 0,25W	
› 0,33W	3326	4822 051 10103	10k 2% 0,25W	
› 0,3W	3327	4822 051 10122	1k2 2% 0,25W	
% 0,5W	3336	4822 051 10472	4k7 2% 0,25W	
% 0,25W	3338	4822 051 10391	390Ω 2% 0,25W	
0,25W	3339	4822 051 10153	15k 2% 0,25W	
% 0,25W	3342	4822 051 20222	2k2 5% 0,1W	
% 0,5W	3344	4822 051 10273	27k 2% 0,25W	
› 0,25W	3345	4822 051 10102	1k 2% 0,25W	
% 0,25W	3350	4822 051 51201	120Ω 1% 0,125W	
0,25W	3351	4822 051 10472	4k7 2% 0,25W	
0,25W	3353	4822 051 10332	3k3 2% 0,25W	
› 0,25W	3360▲	4822 052 10278	2Ω7 5% 0,33W	
› 0,25W	3361	4822 051 10102	1k 2% 0,25W	
% 0,5W	3369	4822 051 10331	330Ω 2% 0,25W	
% 0,5W	3370	4822 100 11391	330Ω 30% lin	
% 0,25W	3371	4822 051 10431	430Ω 2% 0,25W	
› 0,25W	3372	4822 051 10331	330Ω 2% 0,25W	
› 0,25W	3375	4822 116 80176	1Ω 5% 0,5W	
% 0,5W	3377	4822 051 10682	6k8 2% 0,25W	
0,25W	3380	4822 050 11002	1k 1% 0,4W	
0,25W	3382	4822 051 20222	2k2 5% 0,1W	
% 0,25W	3383	4822 051 10333	33k 2% 0,25W	
% 0,25W	3387	4822 050 11002	1k 1% 0,4W	
0,25W	3389	4822 051 10182	1k8 2% 0,25W	
% 0,25W	3391	4822 051 20222	2k2 5% 0,1W	
0,25W	3392	4822 051 10101	100Ω 2% 0,25W	
› 0,25W	3393	4822 051 10101	100Ω 2% 0,25W	
› 0,25W	3394	4822 051 10101	100Ω 2% 0,25W	
% 0,25W	3395	4822 051 10471	470Ω 2% 0,25W	
› 0,33W	3396	4822 051 20222	2k2 5% 0,1W	
› 0,3W	3397	4822 116 81192	12Ω 5% 0,3W	
% 0,25W	3397	4822 052 10259	24Ω 5% 0,33W	
0,25W	3398	4822 116 52175	100Ω 5% 0,5W	
› 0,33W	3399	4822 116 52175	100Ω 5% 0,5W	
› 0,3W	3410	4822 116 52224	470Ω 5% 0,5W	
% 0,25W	3425	4822 116 52224	470Ω 5% 0,5W	
0,25W	3426	4822 116 52224	470Ω 5% 0,5W	
› 0,25W	3439	4822 051 10221	220Ω 2% 0,25W	
% 0,25W	3441	4822 051 10221	220Ω 2% 0,25W	
0,25W	3443	4822 051 10221	220Ω 2% 0,25W	
0,25W	3450	4822 051 20222	2k2 5% 0,1W	
0,25W	3451	4822 051 10432	4k3 2% 0,25W	
% 0,25W	3451	4822 051 10103	10k 2% 0,25W	
% 0,25W	3453	4822 051 10511	510Ω 2% 0,25W	
0,25W	3454	4822 051 10101	100Ω 2% 0,25W	
% 0,25W	3455	4822 051 10101	100Ω 2% 0,25W	
% 0,5W	3456	4822 051 10101	100Ω 2% 0,25W	
% 0,25W	3465	4822 051 10102	1k 2% 0,25W	
0,25W	3466	4822 051 10479	47Ω 2% 0,25W	
0,25W	3471	4822 116 52233	10k 5% 0,5W	
% 0,25W	3472	4822 051 10682	6k8 2% 0,25W	
% 0,25W	3473	4822 051 10362	3k6 2% 0,25W	

	3474	4822 051 10101	100Ω 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 116 52224	470Ω 5% 0,5W	
	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	
	3997▲	4822 051 10008	0Ω 5% 0,25W	
	9104	4822 116 52191	33E 5% 0,5W	

Jumper

4103	4822 051 10008	0Ω 5% 0,25W	
4107	4822 051 10008	0Ω 5% 0,25W	
4108	4822 051 10008	0Ω 5% 0,25W	
4109	4822 051 10008	0Ω 5% 0,25W	
4110	4822 051 10008	0Ω 5% 0,25W	
4111	4822 051 10008	0Ω 5% 0,25W	
4112	4822 051 10008	0Ω 5% 0,25W	
4114	4822 051 10008	0Ω 5% 0,25W	
4115	4822 051 10008	0Ω 5% 0,25W	
4116	4822 051 10008	0Ω 5% 0,25W	
4117	4822 051 10008	0Ω 5% 0,25W	
4118	4822 051 10008	0Ω 5% 0,25W	
4120	4822 051 10008	0Ω 5% 0,25W	
4127	4822 051 10008	0Ω 5% 0,25W	
4130	4822 051 10008	0Ω 5% 0,25W	
4161	4822 051 10008	0Ω 5% 0,25W	
4162	4822 051 10008	0Ω 5% 0,25W	
4166	4822 051 10008	0Ω 5% 0,25W	
4167	4822 051 10008	0Ω 5% 0,25W	
4170	4822 051 10008	0Ω 5% 0,25W	
4171	4822 051 10008	0Ω 5% 0,25W	
4175	4822 051 10008	0Ω 5% 0,25W	
4184	4822 051 10008	0Ω 5% 0,25W	
4200	4822 051 10008	0Ω 5% 0,25W	
4201	4822 051 10008	0Ω 5% 0,25W	
4203	4822 051 10008	0Ω 5% 0,25W	
4205	4822 051 10008	0Ω 5% 0,25W	
4210	4822 051 10008	0Ω 5% 0,25W	
4220	4822 051 10008	0Ω 5% 0,25W	
4234	4822 051 10008	0Ω 5% 0,25W	
4235	4822 051 10008	0Ω 5% 0,25W	
4236	4822 051 10008	0Ω 5% 0,25W	
4241	4822 051 10008	0Ω 5% 0,25W	
4246	4822 051 10008	0Ω 5% 0,25W	
4255	4822 051 10008	0Ω 5% 0,25W	
4280	4822 051 10008	0Ω 5% 0,25W	
4302	4822 051 10008	0Ω 5% 0,25W	
4304	4822 051 10008	0Ω 5% 0,25W	
4306	4822 051 10008	0Ω 5% 0,25W	
4319	4822 051 10008	0Ω 5% 0,25W	
4321	4822 051 10008	0Ω 5% 0,25W	
4330	4822 051 10008	0Ω 5% 0,25W	
4331	4822 051 10008	0Ω 5% 0,25W	
4332	4822 051 10008	0Ω 5% 0,25W	
4334	4822 051 10008	0Ω 5% 0,25W	
4360	4822 051 10008	0Ω 5% 0,25W	
4361	4822 051 10008	0Ω 5% 0,25W	
4362	4822 051 10008	0Ω 5% 0,25W	
4377	4822 051 10008	0Ω 5% 0,25W	
4386	4822 051 10008	0Ω 5% 0,25W	
4420	4822 051 10008	0Ω 5% 0,25W	
4440	4822 051 10008	0Ω 5% 0,25W	
4443	4822 051 20222	2k2 5% 0,1W	
4452	4822 051 10008	0Ω 5% 0,25W	
4453	4822 051 10008	0Ω 5% 0,25W	
4454	4822 051 10008	0Ω 5% 0,25W	
4460	4822 051 10008	0Ω 5% 0,25W	
4476	4822 051 10008	0Ω 5% 0,25W	
4477	4822 051 10008	0Ω 5% 0,25W	
4496	4822 051 10008	0Ω 5% 0,25W	
4498	4822 051 10008	0Ω 5% 0,25W	
4500	4822 051 10008	0Ω 5% 0,25W	
4605	4822 051 10008	0Ω 5% 0,25W	
4610	4822 051 10008	0Ω 5% 0,25W	
4672	4822 051 10008	0Ω 5% 0,25W	
4673	4822 051 10008	0Ω 5% 0,25W	

5100	4822 157 53906	47µH 10%	
5107	4822 157 51462	10µH 10%	
5115	4822 152 20677	10µH 10%	
5270	4822 157 52983	22µH 10%	
5280	4822 157 63065	0,68µH 20%	
5303	4822 157 53302	1µH 20%	
5304	4822 157 53302	1µH 20%	
5305	4822 157 62823	26µH 6%	
5345	4822 157 62822	4,5µH 6%	
5346	4822 157 62823	26µH 6%	
5370	4822 157 62824	7,5µH 6%	
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%	

6107	4822 130 81512	LLZ-C6V2	
6108	4822 130 81512	LLZ-C6V2	
6112	4822 130 82334	BAS85	
6112▲	4822 051 10008	0Ω 5% 0,25W	
6117	4822 130 80906	LLZ-F7V5	
6120	4822 130 80446	LL4148	
6121	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	
6280	4822 130 82334	BAS85	
6281	4822 130 80446	LL4148	
6281	4822 130 82334	BAS85	
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	
6470	4822 130 80446	LL4148	
6471▲	4822 130 30621	1N4148	
6478	4822 130 82345	LLZ-C22	
6479	4822 130 80877	BAV103	
6480	4822 130 82882	LLZ-F8V2	
6481	4822 130 80881	LLZ-C33	
6610▲	4822 130 30621	1N4148	
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	

7107	5322 130 41982	BC848B	
7108	4822 209 61887	MSM6307RS	
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	
7137	4822 209 62524	X24C16P	
7150	5322 130 42136	BC848C	
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	

Spare parts list / Stückliste / Liste des pièces

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
7243	5322 130 41983	BC858B
7244▲	5322 130 41982	BC848B
7258	5322 209 10421	HEF4094BP
7260	4822 130 42615	BC817-40
7261	5322 130 42136	BC848C
7265▲	5322 130 41982	BC848B
7268	4822 130 42615	BC817-40
7270▲	5322 130 41982	BC848B
7273	4822 130 42615	BC817-40
7305	5322 130 41983	BC858B
7311▲	5322 130 41982	BC848B
7314	5322 130 42136	BC848C
7324	4822 209 63901	TDA4568/V2
7338▲	5322 130 41982	BC848B
7350▲	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 31714	TDA4661/V2
7390	4822 130 42513	BC858C
7395	4822 209 30394	TDA8443B/C1
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

Mains panel B (only FL2 styling)

Various

1001	4822 212 30763	Mains panel
▲	4822 265 40596	2P male
▲	4822 265 30389	2P male
	4822 276 13422	mains switch

3201▲	4822 053 21475	4M7 5% 0,5W

Mains filter panel B (only FL2 styling)

Various

1002	4822 212 30783	Mains filter panel
▲	4822 265 30389	2P male
▲	4822 256 30496	fuse holder
1200▲	4822 070 33151	fuse 3,15A
2200▲	4822 121 43819	680nF 10% 250V
2203▲	4822 121 40487	100nF 10% 400V
3203	4822 111 41573	470Ω
3204	4822 116 40138	PTC
3209▲	4822 113 80603	1,5Ω 10% 7W
5202	4822 157 10291	transf.assy CU28D5

Led panel H (only FL2 styling)

Various

1003	4822 212 30765	Led panel
	4822 265 31096	3P grey
	4822 265 31097	4P grey
	4822 256 92079	led holder
1100	4822 212 23281	IR receiver
2100	4822 124 40684	150µF 20% 6,3V
2131	4822 124 22606	68µF 20% 16V
3100	4822 051 10102	1k 2% 0,25W
3128	4822 051 10471	470Ω 2% 0,25W
3198	4822 051 10181	180Ω 2% 0,25W
3199	4822 051 10181	180Ω 2% 0,25W

Jumper

4129	4822 051 10008	0Ω 5% 0,25W
5100	4822 157 53906	47µH
6128	4822 130 80313	TLHG4400
6129	4822 130 83414	TLHR4405
7128	5322 130 42012	BC858
7129	5322 130 42012	BC858
7130	5322 130 42136	BC848C

Control panel H (only FL2 styling)

Various

1004	4822 212 30766	Control panel
	4822 276 13396	tack switch
	4822 265 31097	4P grey
	4822 265 41334	10P grey
3148	4822 051 10473	47k 2% 0,25W
3149	4822 051 10473	47k 2% 0,25W
3150	4822 051 10473	47k 2% 0,25W
3161	4822 116 52224	470Ω 5% 0,5W
3162	4822 116 52224	470Ω 5% 0,5W
3163	4822 116 52224	470Ω 5% 0,5W
3164	4822 116 52224	470Ω 5% 0,5W
3165	4822 116 52224	470Ω 5% 0,5W
3166	4822 051 10471	470Ω 2% 0,25W
3167	4822 051 10471	470Ω 2% 0,25W

Jumper

4101	4822 051 10008	0Ω 5% 0,25W
4102	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4104	4822 051 10008	0Ω 5% 0,25W
6131	4822 130 83407	LSS260-DO
6132	4822 130 83407	LSS260-DO
6133	4822 130 83407	LSS260-DO
6134	4822 130 83407	LSS260-DO
6135	4822 130 83407	LSS260-DO
6136	4822 130 83407	LSS260-DO
6137	4822 130 83407	LSS260-DO
7131	5322 130 42012	BC858
7132	5322 130 42012	BC858
7133	5322 130 42012	BC858
7134	5322 130 42012	BC858
7135	5322 130 42012	BC858
7136	5322 130 42012	BC858
7137	5322 130 42012	BC858

Connector panel C (only FL2 styling)

Various

1005	4822 212 30764	Connector panel
	4822 267 20454	socket headph. +cinch+SVHS
	4822 264 40207	3P male
	4822 265 41335	11P
2241	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2644	5322 122 31842	330pF 2% 63V
2716	4822 122 32597	6,8nF 10% 63V
2736	4822 122 32597	6,8nF 10% 63V
3241	4822 051 10759	75Ω 2% 0,25W
3251	4822 051 10759	75Ω 2% 0,25W
3252	4822 051 10759	75Ω 2% 0,25W
3640	4822 051 10102	1k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W

Jumper

4252	4822 051 10008	0Ω 5% 0,25W
4253	4822 051 10008	0Ω 5% 0,25W

Scavem amplifier panel

Various

1002	4822 212 23804	Scavem panel
	4822 265 20509	2P grey
	4822 265 30351	5P male
	4822 264 40207	3P male
	4822 265 20512	2P green
2420	4822 122 31797	22nF 10% 63V
2490	4822 124 40435	10µF 20% 50V
2491	4822 122 33496	100nF 10% 63V
2604	4822 124 22427	47µF 20% 40V
2605	4822 122 33496	100nF 10% 63V
2606	4822 124 22427	47µF 20% 40V
2607	4822 122 33496	100nF 10% 63V
2620	4822 122 33496	100nF 10% 63V
2622▲	4822 122 32442	10nF 50V
2624	4822 122 33496	100nF 10% 63V
2625	4822 124 40255	100µF 20% 63V
2626	4822 122 31727	470pF 2% 63V
2627	4822 122 31727	470pF 2% 63V
2632	4822 122 33496	100nF 10% 63V
2633	4822 122 33496	100nF 10% 63V
2634	4822 122 33496	100nF 10% 63V
2635	4822 122 33496	100nF 10% 63V
2636	4822 122 33496	100nF 10% 63V
2637	4822 122 33496	100nF 10% 63V
2647	4822 124 40255	100µF 20% 63V
2671	4822 122 31768	180pF 2% 63V
2672	4822 122 31768	180pF 2% 63V
3400	4822 051 10473	47k 2% 0,25W
3401	4822 051 10104	100k 2% 0,25W
3402	4822 051 10104	100k 2% 0,25W
3410	4822 051 10473	47k 2% 0,25W
3411	4822 051 10104	100k 2% 0,25W
3412	4822 051 10104	100k 2% 0,25W
3413	4822 050 11002	1k 1% 0,4W
3420	4822 051 10473	47k 2% 0,25W
3421	4822 051 10473	47k 2% 0,25W
3423	4822 051 10104	100k 2% 0,25W
3424	4822 051 10104	100k 2% 0,25W
3425	4822 051 10473	47k 2% 0,25W
3426	4822 053 12821	820Ω 5% 3W
3430	4822 051 10473	47k 2% 0,25W
3431	4822 051 10473	47k 2% 0,25W
3432	4822 051 10103	10k 2% 0,25W
3433	4822 051 10104	100k 2% 0,25W
3434	4822 051 10104	100k 2% 0,25W
3435	4822 051 10473	47k 2% 0,25W
3440	4822 051 10101	100Ω 2% 0,25W
3441	4822 051 10101	100Ω 2% 0,25W
3490	4822 116 52276	3k9 5% 0,5W
3491	4822 116 52276	3k9 5% 0,5W
3609▲	4822 052 10478	4Ω7 5% 0,33W
3610▲	4822 052 10478	4Ω7 5% 0,33W
3630▲	4822 053 10331	330Ω 5% 1W
3631▲	4822 053 10331	330Ω 5% 1W
3633	4822 051 10152	1k5 2% 0,25W
3634	4822 051 10132	1k3 2% 0,25W
3635	4822 051 10339	33Ω 2% 0,25W
3636	4822 051 10479	47Ω 2% 0,25W
3637▲	4822 116 52215	220Ω 5% 0,5W
3638▲	4822 053 10331	330Ω 5% 1W
3639▲	4822 053 10331	330Ω 5% 1W
3640	202	2k 2% 0,25W
3658	4822 051 10331	330Ω 2% 0,25W
3659	4822 051 10202	2k 2% 0,25W
3661	4822 051 10912	9k1 2% 0,25W
3670	4822 051 10822	8k2 2% 0,25W
3671	4822 051 10822	8k2 2% 0,25W

Jumper

4612	4822 051 10008	0Ω 5% 0,25W
5612	4822 157 63507	0,18µH
5613	4822 157 63507	0,18µH
5614	4822 157 63507	0,18µH
5615	4822 157 63507	0,18µH
5630	4822 157 50965	15µH 10%
5631	4822 157 50965	15µH 10%
5632	4822 157 50965	15µH 10%
5633	4822 157 50965	15µH 10%
6426	4822 130 80906	LLZ-C7V5
6427	4822 130 80906	LLZ-C7V5
6490	4822 130 80884	LLZ-C5V1
6610	4822 130 80884	LLZ-C5V1
6616	4822 130 80884	LLZ-C5V1

Spare parts list / Stückliste / Liste des pièces

7400	4822 130 42705	BC847
7401	5322 130 42756	BC857C
7410	4822 130 42705	BC847
7411	5322 130 42756	BC857C
7420	4822 130 42705	BC847
7421	4822 130 42705	BC847
7423	5322 130 42756	BC857C
7425	5322 130 42755	BC847C
7430	4822 130 42705	BC847
7431	4822 130 42705	BC847
7433	5322 130 42756	BC857C
7435	5322 130 42755	BC847C
7440	4822 209 63896	PCF8574AP
7608	4822 130 61207	BC848
7610	4822 130 41746	BD825
7611	4822 130 42589	BF370
7612	4822 130 41746	BD825
7613	4822 130 41774	BD826
7614	4822 130 41746	BD825
7615	4822 130 41774	BD826
7616	4822 130 41746	BD825
7617	4822 130 42589	BF370
7618	4822 130 42705	BC847
7619	4822 130 61233	BC857
7620	4822 130 42705	BC847
7621	4822 130 61233	BC857

DAF panel

Various

1003	4822 212 23805	DAF panel
▲	4822 265 40596	2P male
	4822 267 41018	2P male
	4822 265 20509	2P male grey
2860	4822 126 12084	390pF 10% 2kV
2861	4822 126 12084	390pF 10% 2kV
3301	4822 116 21211	VDR
3302	4822 116 21211	VDR
5860	4822 148 81242	transf. DAF

Scavem filter panel

Various

1005	4822 212 23819	Scavem filter
	4822 265 31072	5P male
	4822 265 31085	5P male
2500	4822 122 31774	56pF 2% 63V
2501	4822 124 40435	10µF 20% 50V
2502	4822 124 40255	100µF 20% 63V
2503▲	4822 122 32442	10nF 50V
2508	4822 122 33496	100nF 10% 63V
2509▲	4822 122 32442	10nF 50V
2510	4822 126 11492	220nF 10% 50V
2511	4822 122 31767	150pF 2% 63V
2512	4822 122 33496	100nF 10% 63V
2513	4822 122 33496	100nF 10% 63V
2514▲	4822 122 32442	10nF 50V
2515▲	4822 122 32442	10nF 50V
2516	4822 122 31767	150pF 2% 63V
2517	4822 122 32083	8,2pF 5% 50V
2518	4822 122 32083	8,2pF 5% 50V
2519▲	4822 122 32442	10nF 50V
2529	4822 122 33496	100nF 10% 63V

3500	4822 051 10821	820Ω 2% 0,25W
3501	4822 116 52214	200Ω 5% 0,5W
3507▲	4822 052 10478	4Ω7 5% 0,33W
3512	4822 051 10101	100Ω 2% 0,25W
3513	4822 051 10103	10k 2% 0,25W
3514	4822 051 10334	330k 2% 0,25W
3515	4822 051 10123	12k 2% 0,25W
3516	4822 051 10391	390Ω 2% 0,25W
3517	4822 051 10561	560Ω 2% 0,25W
3518	4822 051 10271	270Ω 2% 0,25W
3519	4822 051 10271	270Ω 2% 0,25W
3521	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10182	1k8 2% 0,25W
3523	4822 051 10182	1k8 2% 0,25W
3524	4822 051 10339	33Ω 2% 0,25W
3524	4822 051 10221	220Ω 2% 0,25W
3525	4822 051 10102	1k 2% 0,25W
3526	4822 051 10102	1k 2% 0,25W
3527	4822 051 10471	470Ω 2% 0,25W
3528	4822 051 10829	82Ω 2% 0,25W
3529	4822 051 10682	6k8 2% 0,25W

Jumper

4502	4822 051 10008	0Ω 5% 0,25W
5501	4822 157 50965	15µH 10%
5502	4822 157 50965	15µH 10%
5503	4822 157 50965	15µH 10%
6502	4822 130 80446	LL4148
6503	5322 130 34337	BAV99
6504	5322 130 34337	BAV99
6505	5322 130 34337	BAV99
7503	4822 130 61207	BC848
7504	4822 209 30404	NE592/N8
7505	4822 130 41594	PH2369
7506	4822 130 61207	BC848
7507	4822 130 61207	BC848
7509	5322 130 60646	BSR57
7525	5322 130 42012	BC858

Panoramic-view panel

Various

1028	4822 212 30832	Panoramic view 32"
1028	4822 212 30833	Panoramic view 28"
1028	4822 212 30835	Panoramic view 36"
	4822 265 20509	2P grey
	4822 267 41018	2P red
	4822 267 40666	3P male
	4822 264 40207	3P male
2101	4822 121 51563	560nF 5% 250V
2102	4822 121 51563	560nF 5% 250V
2105	4822 124 80341	1µF 20% 160V
2106	4822 124 80341	1µF 20% 160V
2110	4822 121 51563	560nF 5% 250V
2110	4822 121 70281	510nF 5% 400V
2110▲	4822 121 43397	680nF 5% 250V
2140	4822 126 12784	22nF +80-20% 100V
2141	4822 124 40255	100µF 20% 63V

3100	4822 116 52258	220k 5% 0,5W
3101	4822 116 52274	36k 5% 0,5W
3102▲	4822 116 52215	220Ω 5% 0,5W
3105	4822 116 52267	30k 5% 0,5W
3106	4822 116 52267	30k 5% 0,5W
3110▲	4822 116 52197	56Ω 5% 0,5W
3111▲	4822 116 52197	56Ω 5% 0,5W
3115	4822 116 80176	1Ω 5% 0,5W
3121	4822 116 52296	6k8 5% 0,5W
3122	4822 116 52296	6k8 5% 0,5W
3140	4822 116 52175	100Ω 5% 0,5W
3141	4822 116 52175	100Ω 5% 0,5W
3142▲	4822 116 52283	4k7 5% 0,5W
3143	4822 116 52256	2k2 5% 0,5W
3144▲	4822 116 52283	4k7 5% 0,5W
3145	4822 116 52296	6k8 5% 0,5W
3146	4822 116 52296	6k8 5% 0,5W
3198	4822 051 10333	33k 2% 0,25W
3198	4822 116 52264	27k 5% 0,5W
3198	4822 116 52274	36k 5% 0,5W
3199	4822 051 10333	33k 2% 0,25W
3199	4822 116 52264	27k 5% 0,5W
3199	4822 116 52274	36k 5% 0,5W
5110	4822 157 63256	coil CU15
6100▲	4822 130 32896	BYD33M
6101▲	4822 130 32896	BYD33M
6103	4822 130 34499	BZX79-C20
6120	4822 130 34233	BZX79-C5V1
7100	4822 130 63364	IRFI640G
7140	4822 209 63896	PCF8574AP
7141	4822 130 44257	BC547
7142▲	4822 209 32126	SOC1012T

Picture tube panel E

1040	4822 212 30789	PTP-16/9-28"
1040	4822 212 30791	PTP-16/9-32"
1040	4822 212 23803	PTP-16/9-36"
1040	4822 212 30782	PTP-4/3-25"-28"
1040	4822 212 30856	PTP-4/3-33"
	4822 267 51249	socket for CRT 28" 16/9
	4822 267 51248	socket for CRT 32" 16/9
	4822 255 70246	socket for CRT 36" 16/9
	4822 267 51225	socket for CRT 4/3
	4822 265 20509	2P male grey
▲	4822 265 40596	2P male Vg2
	4822 267 40985	6P male
	4822 265 41107	7P male

Various

	4822 492 70788	spring fix IC
	4822 404 31199	bracket
2700	4822 126 11824	100pF 10% 1kV
2701	4822 122 32507	6,8pF 55 50V
2701	4822 122 31971	10pF 10% 50V
2701	4822 122 32139	12pF 2% 63V
2702	4822 122 31784	4,7nF 10% 50V
2703	4822 121 42068	33nF 10% 400V
2704	4822 122 31746	1000pF 2% 63V
2705	4822 124 40433	47µF 20% 25V
2705	4822 124 40196	220µF 20% 16V
2706	4822 122 31797	22nF 10% 63V

2707	4822 121 51562	33nF 1,6kV
2707	4822 121 70093	33nF 5% 2kV
2708	5322 122 31842	330pF 2% 63V
2708	4822 122 31773	560pF 2% 63V
2709	4822 124 80091	4,7µF 20% 250V
2710	4822 122 31797	22nF 10% 63V
2711	4822 122 32507	6,8pF 55 50V
2711	4822 122 31971	10pF 2% 63V
2712	4822 122 31784	4,7nF 10% 50V
2713	4822 121 42068	33nF 10% 400V
2714	4822 122 31746	1000pF 2% 63V
2715	4822 121 42068	33nF 10% 400V
2720	4822 122 31825	27pF 2% 63V
2721	4822 122 31971	10pF 2% 63V
2721	4822 122 32504	15pF 2% 63V
2722	4822 122 31784	4,7nF 10% 50V
2724	4822 122 31746	1000pF 2% 63V
2725	4822 122 31774	56pF 2% 63V
2726	4822 122 31774	56pF 2% 63V
2727	4822 122 31774	56pF 2% 63V
2729	4822 121 41156	68nF 10% 250V
3700	4822 051 20222	2k2 5% 0,1W
3701▲	4822 052 11108	1Ω 5% 0,5W
3701	4822 052 11338	3Ω3 5% 0,5W
3702	4822 051 10201	200Ω 2% 0,25W
3703▲	4822 052 11108	1Ω 5% 0,5W
3703	4822 052 11338	3Ω3 5% 0,5W
3704	4822 051 10222	2k2 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W
3705▲	4822 051 10242	2k4 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
3707▲	4822 051 10008	0Ω 5% 0,25W
3708	4822 111 50579	680Ω 10% 0,5W
3709	4822 051 10124	120k 2% 0,25W
3709	4822 051 10154	150k 2% 0,25W
3710	4822 051 10822	8k2 2% 0,25W
3710	4822 051 10333	33k 2% 0,25W
3712	4822 051 10201	200Ω 2% 0,25W
3714	4822 051 20222	2k2 5% 0,1W
3714	4822 051 10272	2k7 2% 0,25W
3715▲	4822 051 10242	2k4 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 50579	680Ω 10% 0,5W
3719	4822 051 10333	33k 2% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3722	4822 051 10201	200Ω 2% 0,25W
3723	4822 050 11002	1k 1% 0,4W
3724	4822 051 20222	2k2 5% 0,1W
3724	4822 051 10272	2k7 2% 0,25W
3725▲	4822 051 10242	2k4 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W
3726	4822 050 21204	120k 1% 0,6W
3726	4822 050 21504	150k 15 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 41572	220Ω 10% 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
3732▲	4822 052 10189	18Ω 5% 0,33W
3733▲	4822 051 10008	0Ω 5% 0,25W
3734	4822 050 21604	160k 1% 0,6W
3735	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10123	12k 2% 0,25W
3737	4822 051 10153	15k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W
3738	4822 053 12823	82k 5% 3W

3739	4822	
3740	4822	
3741	4822	
3742	4822	
3743	4822	
3744▲	4822	
3750	4822	
3750	4822	
3750	4822	
3750	4822	

Jumper

4701	4822	
4702	4822	
4703	4822	
4704	4822	
5700	4822	
5700	4822	
5703	4822	
6700	4822	
6701	4822	
6702	4822	
6703	4822	
6707	4822	
6708▲	4822	
6709	4822	
6709	4822	
6710	4822	
6711	4822	
6712	4822	
7704	4822	
7705	4822	
7706	4822	
7707	4822	

LFR bo

1750	4822	
1750	4822	
1750	4822	
	4822	
	4822	

Various

1001	4822	
1002	4822	
2000	4822	
2001	4822	
2002	4822	
2003	4822	
2004	4822	
2005	4822	
2006	4822	
2007	4822	
2010	4822	
2011	4822	
2012	4822	
2013	4822	
2014	4822	
2015	4822	
2016	4822	
2017	4822	

,6kV
5% 2kV
2% 63V
2% 63V
20% 250V

0% 63V
55 50V
2% 63V
10% 50V
0% 400V

F 2% 63V
0% 400V
2% 63V
2% 63V
2% 63V

10% 50V
F 2% 63V
2% 63V
2% 63V
2% 63V

0% 250V

% 0,1W
0,5W
% 0,5W
2% 0,25W
0,5W

% 0,5W
% 0,25W
% 0,25W
% 0,25W
% 0,25W

% 0,6W
% 0,6W
0,25W
10% 0,5W
2% 0,25W

2% 0,25W
% 0,25W
% 0,25W
2% 0,25W
% 0,1W

% 0,25W
% 0,25W
% 0,25W
% 0,6W
% 0,6W

10% 0,5W
% 0,25W
% 0,25W
2% 0,25W
0,4W

% 0,1W
% 0,25W
% 0,25W
% 0,25W
% 0,6W

5 0,6W
% 0,5W
10% 0,5W
10% 0,5W
% 0,5W

% 0,33W
% 0,33W
0,25W
% 0,6W
% 0,25W

% 0,25W
% 0,25W
% 0,25W
% 0,25W
% 3W

3739	4822 101 11185	47k 10%	
3740	4822 050 21604	160k 1% 0,6W	
3741	4822 116 52221	360Ω 5% 0,5W	
3742	4822 116 52221	360Ω 5% 0,5W	
3743	4822 116 52221	360Ω 5% 0,5W	
3744▲	4822 052 10229	22Ω 5% 0,33W	
3750	4822 051 10103	10k 2% 0,25W	
3750	4822 051 10223	22k 2% 0,25W	
3750	4822 051 10333	33k 2% 0,25W	
3750	4822 051 10563	56k 2% 0,25W	

Jumper

4701	4822 051 10008	0Ω 5% 0,25W
4702	4822 051 10008	0Ω 5% 0,25W
4703	4822 051 10008	0Ω 5% 0,25W
4704	4822 051 10008	0Ω 5% 0,25W

5700	4822 157 70636	82µH 5%
5700	4822 157 70635	33µH 7,5%
5703	4822 157 70635	33µH 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
6708▲	4822 130 32896	BYD33M
6709	4822 130 82969	BZD23-C24
6709	4822 130 34379	BZX79-C27
6710	4822 130 30842	BAV21
6711	4822 130 30842	BAV21
6712	4822 130 30842	BAV21

7704	4822 130 60373	BC856B
7705	4822 209 30417	TDA6111Q/N2
7706	4822 209 30417	TDA6111Q/N2
7707	4822 209 30417	TDA6111Q/N2

LFR box M L

1750	4822 212 30795	LFR box FL1.16
1750	4822 212 30796	LFR box FL1.14 28"-32"
1750	4822 212 30587	LFR box FL1.14 36"
	4822 265 61259	IC socket 68P
	4822 265 41328	10P female

Various

1001	4822 242 72572	crystal 12MHz
1002	4822 242 71417	crystal 13,875 MHz

2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 122 33496	100nF 10% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 122 33496	100nF 10% 63V
2005	4822 122 33496	100nF 10% 63V
2006	4822 124 40731	330µF 20% 6,3V
2007	4822 122 33496	100nF 10% 63V
2010	4822 122 33496	100nF 10% 63V
2011	4822 122 33496	100nF 10% 63V
2012	4822 122 33496	100nF 10% 63V
2013	4822 122 33496	100nF 10% 63V
2014	4822 122 33496	100nF 10% 63V
2015	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2017	4822 122 33496	100nF 10% 63V
2018	4822 122 33496	100nF 10% 63V
2022	4822 122 33496	100nF 10% 63V
2023	4822 122 33496	100nF 10% 63V
2026	4822 122 32083	8,2pF 5% 50V
2027	4822 122 31961	68pF 2% 63V
2028	4822 122 31772	47pF 2% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 32083	8,2pF 5% 50V
2031	4822 122 31767	150pF 2% 63V
2032	4822 122 31772	47pF 2% 63V
2033	4822 122 32083	8,2pF 5% 50V
2034	4822 122 33496	100nF 10% 63V
2035	4822 122 31767	150pF 2% 63V
2036	4822 122 31772	47pF 2% 63V
2037	4822 122 31765	100pF 2% 63V
2038	4822 122 31765	100pF 2% 63V
2039	4822 124 41643	100µF 20% 16V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 31825	27pF 2% 63V
2043▲	4822 122 32442	10nF 50V
2044▲	4822 122 32442	10nF 50V
2045	4822 124 41576	2,2µF 20% 50V
2046	4822 124 40435	10µF 20% 50V
2047	4822 122 32504	15pF 2% 63V
2048	4822 124 41576	2,2µF 20% 50V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 41997	470µF 10V
2051	4822 122 32504	15pF 2% 63V
2052	4822 122 32142	270pF 2% 63V
2053	4822 122 32891	68nF 10% 63V
2054	4822 122 32504	15pF 2% 63V
2055	5322 122 31647	1nF 10% 63V
2056	4822 122 31727	470pF 2% 63V
2057	4822 122 31797	22nF 10% 63V
2058	4822 122 32142	270pF 2% 63V
2059	4822 122 31765	100pF 2% 63V
2060	4822 122 31772	47pF 2% 63V
2061	4822 122 31772	47pF 2% 63V
2062	4822 122 31772	47pF 2% 63V
2063	4822 122 31772	47pF 2% 63V
2064	4822 124 41643	100µF 20% 16V
2065	4822 122 33496	100nF 10% 63V
2066	4822 122 33496	100nF 10% 63V
2067	4822 122 33496	100nF 10% 63V
2068	4822 122 33496	100nF 10% 63V
2069	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V
2071	4822 124 41643	100µF 20% 16V
2072	5322 122 31647	1nF 10% 63V
2073	4822 122 31839	82pF 2% 63V
2074	4822 122 31981	33nF 5% 50V
2075	4822 122 33496	100nF 10% 63V
2076	5322 122 31842	330pF 2% 63V
2077	4822 124 41576	2,2µF 20% 50V
2078	4822 122 33496	100nF 10% 63V
2079	4822 121 42937	2,7nF 1% 250V
2080	5322 124 41431	22µF 20% 35V
2081	4822 124 41577	4,7µF 20% 50V
2082	4822 122 31772	47pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 33496	100nF 10% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31825	27pF 2% 63V
2087	4822 122 31825	27pF 2% 63V
2088	4822 122 31797	22nF 10% 63V
2090	4822 122 31772	47pF 2% 63V
2091	4822 122 31746	1000pF 2% 63V
2092	4822 124 40433	47µF 20% 25V
2093	4822 124 41997	470µF 10V
2094	4822 122 33496	100nF 10% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31746	1000pF 2% 63V
2098	4822 124 22606	68µF 20% 16V
2099	4822 122 33496	100nF 10% 63V
2100	4822 122 33496	100nF 10% 63V
2102	4822 122 31644	2,2nF 10% 63V
2103	4822 124 41097	220µF 20% 16V
2105	4822 122 33496	100nF 10% 63V
2106	4822 124 41643	100µF 20% 16V
2107	4822 122 33496	100nF 10% 63V
2108	4822 122 31765	100pF 2% 63V
2109	4822 122 32506	5,6pF 5% 50V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31842	330pF 2% 63V
2112	4822 122 31981	33nF 5% 50V
2113	4822 122 31644	2,2nF 10% 63V
2114	4822 126 11492	220nF 10% 50V
2115	4822 126 11492	220nF 10% 50V
2116	4822 122 31768	180pF 2% 63V
2117▲	4822 122 32442	10nF 50V
2118	4822 122 33496	100nF 10% 63V
2119	4822 122 33496	100nF 10% 63V
2120	4822 122 31965	220pF 2% 63V
2121	4822 122 31965	220pF 2% 63V
2122	5322 122 31842	330pF 2% 63V
2123	4822 122 33496	100nF 10% 63V
2124	4822 122 31767	150pF 2% 63V
2125	4822 122 33498	2,7nF 10% 63V
2126	4822 122 33496	100nF 10% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31767	150pF 2% 63V
2129	4822 122 33496	100nF 10% 63V
2130	4822 122 31771	390pF 2% 63V
2131	4822 122 31825	27pF 2% 63V
2132	5322 122 31842	330pF 2% 63V
2133	4822 122 31825	27pF 2% 63V
2134	4822 122 31771	390pF 2% 63V
2136	4822 122 31825	27pF 2% 63V
2150	4822 124 40433	47µF 20% 25V
2151	4822 122 31772	47pF 2% 63V
2152	4822 122 33496	100nF 10% 63V
2153	4822 122 31772	47pF 2% 63V
2160	4822 122 33498	2,7nF 10% 63V
2161	4822 122 31825	27pF 2% 63V
2162	4822 122 31971	10pF 2% 63V
2163	4822 126 11492	220nF 10% 50V
2164	4822 122 31971	10pF 2% 63V
2165	4822 126 10324	33pF 2% 63V
2166	4822 122 31772	47pF 2% 63V
2167	4822 122 31772	47pF 2% 63V
2168	4822 126 10324	33pF 2% 63V
2169	4822 124 40849	330µF 20% 16V
2170	4822 122 32139	12pF 2% 63V
2172	4822 122 31839	82pF 2% 63V
2175	4822 122 33496	100nF 10% 63V
2179	4822 122 33496	100nF 10% 63V
2180	4822 122 31797	22nF 10% 63V
2181	4822 122 31772	47pF 2% 63V
2184	4822 122 32139	12pF 2% 63V
2185	4822 124 40433	47µF 20% 25V
2186	4822 124 40433	47µF 20% 25V
2187	4822 124 40731	330µF 20% 6,3V
2188	4822 122 31772	47pF 2% 63V
2190	4822 126 11492	220nF 10% 50V

3000	4822 051 10162	1k6 2% 0,25W
3001▲	4822 111 41424	22Ω 5% 0,3W
3002▲	4822 051 10242	2k4 2% 0,25W
3003	4822 051 10682	6k8 2% 0,25W
3004	4822 051 10472	4k7 2% 0,25W
3006	4822 050 24708	4Ω7 1% 0,6W
3007	4822 051 10209	20Ω 2% 0,25W
3008▲	4822 051 10008	0Ω 5% 0,25W
3009	4822 051 10829	82Ω 2% 0,25W
3011	4822 051 10101	100Ω 2% 0,25W
3012	4822 051 10339	33Ω 2% 0,25W
3013	4822 051 52201	220Ω 1% 0,125W
3014	4822 051 10101	100Ω 2% 0,25W
3016	4822 051 10759	75Ω 2% 0,25W
3017	4822 051 53601	360Ω 1% 0,125W
3019	4822 111 41423	18Ω 5% 0,3W
3021	4822 051 10101	100Ω 2% 0,25W
3022	4822 051 10101	100Ω 2% 0,25W
3023▲	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 10473	47k 2% 0,25W
3025	4822 051 10102	1k 2% 0,25W
3026	4822 051 10181	180Ω 2% 0,25W
3027	4822 051 10132	1k3 2% 0,25W
3028	4822 051 10221	220Ω 2% 0,25W
3029	4822 051 10683	68k 2% 0,25W
3030	4822 051 10681	680Ω 2% 0,25W
3031	4822 051 10561	560Ω 2% 0,25W
3032	4822 051 10561	560Ω 2% 0,25W
3033	4822 051 10561	560Ω 2% 0,25W
3034	4822 051 10759	75Ω 2% 0,25W
3035	4822 051 20222	2k2 5% 0,1W
3036	4822 051 10221	220Ω 2% 0,25W
3037▲	4822 111 41424	22Ω 5% 0,3W
3038	4822 051 10103	10k 2% 0,25W
3039	4822 051 10683	68k 2% 0,25W
3040	4822 051 10104	100k 2% 0,25W
3041	4822 051 10561	560Ω 2% 0,25W
3042	4822 051 10102	1k 2% 0,25W
3043	4822 051 10103	10k 2% 0,25W
3044▲	4822 052 10279	27Ω 5% 0,33W
3045	4822 051 10162	1k6 2% 0,25W
3046	4822 051 10272	2k7 2% 0,25W
3047	4822 051 10332	3k3 2% 0,25W
3048	4822 051 10562	5k6 2% 0,25W
3049	4822 051 10229	22Ω 2% 0,25W
3050	4822 051 10122	1k2 2% 0,25W
3051	4822 051 10333	33k 2% 0,25W
3052	4822 051 10513	51k 2% 0,25W
3053	4822 051 10821	820Ω 2% 0,25W
3054	4822 100 20166	10k 30% LIN
3055	4822 051 10181	180Ω 2% 0,25W
3055	4822 051 10201	200Ω 2% 0,25W
3055	4822 051 10221	220Ω 2% 0,25W
3056	4822 051 10472	4k7 2% 0,25W
3057	4822 051 10472	4k7 2% 0,25W
3058	4822 051 10472	4k7 2% 0,25W
3060	4822 051 10123	12k 2% 0,25W
3061	4822 051 10622	6k2 2% 0,25W
3062	4822 051 10103	10k 2% 0,25W
3063	4822 051 10471	470Ω 2% 0,25W
3064	4822 051 10104	100k 2% 0,25W
3065	4822 051 10223	22k 2% 0,25W
3066▲	4822 051 10242	2k4 2% 0,25W
3067	4822 051 10109	10Ω 2% 0,25W
3068	4822 051 10103	10k 2% 0,25W
3071▲	4822 051 10008	0Ω 5% 0,25W
3074▲	4822 051 10242	2k4 2% 0,25W
3075	4822 051 10103	10k 2% 0,25W
3076	4822 051 10221	220Ω 2% 0,25W
3078	4822 051 10223	22k 2% 0,25W
3079	4822 051 10471	470Ω 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 051 20222	2k2 5% 0,1W
3084	4822 051 10473	47k 2% 0,25W
3085▲	4822 116 81193	15Ω 5% 0,3W
3086	4822 051 10473	47k 2% 0,25W
3087	4822 051 10151	150Ω 2% 0,25W
3087	4822 051 10181	180Ω 2% 0,25W
3087	4822 051 10471	470Ω 2% 0,25W
3089	4822 116 81192	12Ω 5% 0,3W
3090	4822 051 10102	1k 2% 0,25W
3091	4822 051 51201	120Ω 1% 0,125W
3092	4822 051 10224	220k 2% 0,25W
3093	4822 051 10104	100k 2% 0,25W

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% 0,25W	3094	4822 051 10124	120k 2% 0,25W
% 0,125W	3095	4822 051 10223	22k 2% 0,25W
% 0,25W	3096	4822 051 10479	47Ω 2% 0,25W
% 0,25W	3097	4822 051 10223	22k 2% 0,25W
% 0,125W	3098	4822 051 10151	150Ω 2% 0,25W
% 0,3W	3099	4822 051 10272	2k7 2% 0,25W
% 0,25W	3100	4822 051 10221	220Ω 2% 0,25W
% 0,25W	3101	4822 051 10122	1k2 2% 0,25W
0,25W	3102	4822 051 20222	2k2 5% 0,1W
0,25W	3103	4822 051 10102	1k 2% 0,25W
0,25W	3104	4822 051 53301	330Ω 1% 0,125W
% 0,25W	3105	4822 051 10472	4k7 2% 0,25W
0,25W	3106	4822 051 10152	1k5 2% 0,25W
% 0,25W	3107	4822 051 52201	220Ω 1% 0,125W
0,25W	3108	4822 051 10472	4k7 2% 0,25W
% 0,25W	3109	4822 051 10109	10Ω 2% 0,25W
% 0,25W	3110	4822 051 10681	680Ω 2% 0,25W
% 0,25W	3111	4822 051 10102	1k 2% 0,25W
% 0,25W	3112	4822 051 10181	180Ω 2% 0,25W
% 0,25W	3113	4822 051 10152	1k5 2% 0,25W
0,1W	3114	4822 051 53601	360Ω 1% 0,125W
% 0,25W	3115	4822 051 10101	100Ω 2% 0,25W
% 0,3W	3116	4822 051 10472	4k7 2% 0,25W
0,25W	3117	4822 051 10102	1k 2% 0,25W
0,25W	3118	4822 051 56201	620Ω 1% 0,125W
% 0,25W	3119	4822 051 10103	10k 2% 0,25W
% 0,25W	3120	4822 051 10271	270Ω 2% 0,25W
0,25W	3121	4822 051 10272	2k7 2% 0,25W
0,25W	3123	4822 051 10221	220Ω 2% 0,25W
% 0,33W	3125	4822 051 52701	270Ω 1% 0,125W
0,25W	3127	4822 051 59101	910Ω 1% 0,125W
0,25W	3128	4822 051 10271	270Ω 2% 0,25W
0,25W	3160	4822 051 10562	5k6 2% 0,25W
0,25W	3161	4822 051 20222	2k2 5% 0,1W
% 0,25W	3162	4822 051 10102	1k 2% 0,25W
0,25W	3163	4822 051 20222	2k2 5% 0,1W
0,25W	3166	4822 051 10569	56Ω 2% 0,25W
0,25W	3167	4822 051 53301	330Ω 1% 0,125W
% 0,25W	3168	4822 051 10471	470Ω 2% 0,25W
% LIN	3169	4822 051 10103	10k 2% 0,25W
% 0,25W	3176	4822 051 10221	220Ω 2% 0,25W
% 0,25W	3180	4822 051 10101	100Ω 2% 0,25W
% 0,25W	3181	4822 051 10101	100Ω 2% 0,25W
0,25W	3182	4822 051 10102	1k 2% 0,25W
0,25W	3183	4822 051 10471	470Ω 2% 0,25W
0,25W	3184	4822 051 10101	100Ω 2% 0,25W
0,25W	3201	4822 051 10102	1k 2% 0,25W
0,25W	3202	4822 051 10102	1k 2% 0,25W
0,25W	3203	4822 051 10102	1k 2% 0,25W
% 0,25W	3227	4822 051 10151	150Ω 2% 0,25W
% 0,25W	3228	4822 051 10182	1k8 2% 0,25W
0,25W	3300	4822 051 10279	27Ω 2% 0,25W
0,25W	3300	4822 051 10399	39Ω 2% 0,25W
% 0,25W	3300	4822 051 10479	47Ω 2% 0,25W
0,25W			

Jumper

0,25W			
0,25W	4007	4822 051 10008	0Ω 5% 0,25W
0,25W	4010	4822 051 10008	0Ω 5% 0,25W
% 0,25W			
0,25W			

% 0,25W	5000	4822 157 50961	22µH 10%
0,1W	5001	4822 157 60147	2,2µH
0,1W	5002	4822 157 60147	2,2µH
0,25W	5003	4822 157 60147	2,2µH
% 0,3W	5004	4822 157 60147	2,2µH
0,25W	5005	4822 157 60147	2,2µH
% 0,25W	5006	4822 157 60147	2,2µH
% 0,25W	5007	4822 157 60147	2,2µH
% 0,25W	5008	4822 157 52403	3,3µH 10%
% 0,3W	5009	4822 157 60147	2,2µH
0,25W	5010	4822 157 52403	3,3µH 10%
% 0,125W	5011	4822 157 60147	2,2µH
% 0,25W	5012	4822 157 52403	3,3µH 10%
% 0,25W	5013	4822 157 60147	2,2µH
	5014	4822 157 52224	15µH 10%
	5015	4822 157 60147	2,2µH
	5016	4822 157 52138	27µH 10%
	5017	4822 157 60147	2,2µH
	5018	4822 157 60147	2,2µH
	5019	4822 157 52403	3,3µH 10%
	5020	4822 157 60147	2,2µH
	5021	4822 157 60147	2,2µH
	5022	4822 157 60498	56µH 10%
	5023	4822 156 11145	1,0µH 6%
	5025	4822 156 11143	4,3µH 6%
	5026	4822 157 60147	2,2µH
	5027	4822 156 11144	3,3µH 6%
	5028	4822 157 60147	2,2µH
	5030	4822 157 63834	3,9µH 10%
	5031	4822 157 63834	3,9µH 10%
	5032	4822 157 63834	3,9µH 10%
	5033	4822 152 20677	10µH 10%
	5034	4822 157 60147	2,2µH
	5035	4822 157 53634	5,6µH 10%

6000	4822 130 80446	LL4148
6001	4822 130 80884	LLZ-C5V1
6002	4822 130 80446	LL4148
6003	4822 130 82334	BAS85
6004	4822 130 80446	LL4148
6005	4822 130 80446	LL4148
6006	4822 130 31253	BZX55-C2V4
6007	4822 130 80888	BA682
6008	4822 130 80888	BA682
6009	5322 130 80119	BBY40
6010	5322 130 80119	BBY40
6013	4822 130 80954	LLZ-C5V6
6014	4822 130 80446	LL4148

7000	5322 130 42136	BC848C
7010	5322 130 42136	BC848C
7011	5322 130 41983	BC858B
7012▲	5322 130 41982	BC848B
7013	4822 130 61207	BC848
7014	5322 130 41983	BC858B
7022▲	5322 130 41982	BC848B
7023	4822 130 42513	BC858C
7024	5322 130 42012	BC858
7025	5322 130 41983	BC858B
7026▲	5322 130 41982	BC848B
7027	4822 130 61207	BC848
7029▲	5322 130 41982	BC848B
7030	4822 130 40938	BC548
7034	4822 130 42131	BF550
7035	4822 130 42513	BC858C
7036	5322 130 42136	BC848C
7037	4822 130 61207	BC848
7038	5322 130 42136	BC848C
7039	5322 130 42136	BC848C
7040	4822 130 42131	BF550
7042	5322 130 42136	BC848C
7060	5322 130 42136	BC848C
7120	4822 209 31852	PCF83C652P/AB043
7201	4822 209 32483	MSM514221A
7202	4822 209 32483	MSM514221A
7203	4822 209 32483	MSM514221A
7204	4822 209 60525	TMS4C1050-3N
7205	4822 209 60525	TMS4C1050-3N
7206	4822 209 60525	TMS4C1050-3N
7207	4822 209 31056	SDA9205-2
7208	4822 209 31057	UPD65640G-011-3B9
7209	4822 209 31059	SAA7158
7210	4822 209 72042	MC78L05ACP
7214	4822 209 63645	SAA5231/V7
7215	4822 209 31851	SAA9042P/A/MOB
7216	4822 209 63423	TDA2579B/N2
7217	4822 209 63644	SDA9086-3
7218	5322 209 61004	N74F74D
7219	4822 209 63892	UPD91237C/CE028A
7221▲	4822 209 83163	LM833N
7231	4822 209 72042	MC78L05ACP
7232	4822 209 52359	HYB514256B-70
7233	4822 209 63893	LH2464-10
7244	5322 209 61004	N74F74D
7261	4822 209 72042	MC78L05ACP

PIP panel J

Various

1023	4822 212 30837	PIP multi 28" FL1.14
1023	4822 212 30838	Full PIP multi 32" FL1.14
1023	4822 212 30371	Full PIP 36" FL1.14
1023	4822 212 30839	PIP multi 33" FL1.16
1023	4822 212 30841	PIP multi 25-28" FL1.16
	4822 265 31085	5P female
	4822 265 41328	10P female
	4822 265 20509	2P male grey
	4822 265 20511	2P male blue
	4822 265 30828	5P male brown
	4822 265 30899	5P male black
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
150	4822 212 23792	PLL panel
1600	4822 210 10392	Tuner UV916E
1610	4822 242 80295	crystal OFWG3962M

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	4822 122 31965	220pF 2% 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
2330	4822 122 31768	180pF 2% 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 +80-20% 50V
2381	4822 122 32927	220nF +80-20% 50V
2382	4822 122 32927	220nF +80-20% 50V
2383	4822 122 32927	220nF +80-20% 50V
2384	4822 122 32927	220nF +80-20% 50V
2385	4822 122 32927	220nF +80-20% 50V
2390	4822 122 31947	100nF 20% 63V
2391	4822 122 32927	220nF +80-20% 50V
2395	4822 122 32927	220nF +80-20% 50V
2397	4822 122 32927	220nF +80-20% 50V
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 31769	18pF 2% 63V
2413	4822 122 31765	100pF 2% 63V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 2% 63V
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
2445	5322 122 31842	330pF 2% 63V
2446	4822 122 31947	100nF 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
2451	4822 122 31981	33nF +-0,5pF 50V
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 40196	220µF 20% 16V
2604	4822 124 40195	150µF 20% 16V
2614	4822 124 40433	47µF 20% 25V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 32927	220nF +80-20% 50V
2618	4822 122 32442	10nF 50V
2619	4822 124 40849	330µF 20% 16V
2620	4822 122 32442	10nF 50V
2621	4822 122 31797	22nF 10% 63V
2622	4822 122 31947	100nF 20% 63V

Spare parts list / Stückliste / Liste des pièces

PIP panel J

2623	4822 122 31797	22nF 10% 63V
2627	4822 122 32927	220nF +80-20% 50V
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 10112	1k1 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3235	4822 051 10202	2k 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
3330	4822 051 10103	10k 2% 0,25W 1)
3330	4822 051 10473	47k 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W 1)
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3336	4822 051 10682	6k8 2% 0,25W
3337	4822 050 11002	1k 1% 0,4W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341▲	4822 052 10129	12Ω 5% 0,33W
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
3354	4822 051 10331	330Ω 2% 0,25W
3376	4822 051 10008	0Ω 5% 0,25W
3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10008	0Ω 5% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10008	0Ω 5% 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
3396	4822 116 52232	910Ω 5% 0,5W
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
3406	4822 051 10162	1k6 2% 0,25W
3407	4822 051 10332	3k3 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10181	180Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3420	4822 116 52184	18Ω 5% 0,5W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10102	1k 2% 0,25W
3464	4822 051 10472	4k7 2% 0,25W
3467	4822 116 52256	2k2 5% 0,5W
3471	4822 051 10752	7k5 2% 0,25W
3471	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3474	4822 116 52277	39K 5% 0,5W
3475	4822 051 10821	820Ω 2% 0,25W
3476	4822 051 10152	1k5 2% 0,25W
3600	4822 051 10103	10k 2% 0,25W
3601	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604▲	4822 052 10158	1Ω5 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% lin
3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3616	4822 050 11002	1k 1% 0,4W
3617	4822 051 10751	750Ω 2% 0,25W
3617	4822 051 10102	1k 2% 0,25W
3618▲	4822 052 10568	5Ω6 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k2 5% 0,1W
3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k7 2% 0,25W
3624	4822 051 10272	2k7 2% 0,25W
3625	4822 051 10511	510Ω 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3633	4822 051 10124	120k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
3634	4822 051 10124	120k 2% 0,25W
3635	4822 051 10562	5k6 2% 0,25W
3636	4822 051 10911	910Ω 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W
3638	4822 051 10362	3k6 2% 0,25W

Jumper

4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4003	5322 122 31647	1nF 10% 63V
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4017	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4022	4822 051 10008	0Ω 5% 0,25W
4024	4822 051 10008	0Ω 5% 0,25W
4025	4822 051 10008	0Ω 5% 0,25W
4026	4822 051 10008	0Ω 5% 0,25W
4027	4822 051 10008	0Ω 5% 0,25W
4028	4822 051 10008	0Ω 5% 0,25W
4029	4822 051 10008	0Ω 5% 0,25W 404625W
4415	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4418	4822 051 10008	0Ω 5% 0,25W
4419	4822 051 10008	0Ω 5% 0,25W
4420	4822 051 10008	0Ω 5% 0,25W
4421	4822 051 10008	0Ω 5% 0,25W
4631	4822 051 10008	0Ω 5% 0,25W
4632	4822 051 10008	0Ω 5% 0,25W
4633	4822 051 10008	0Ω 5% 0,25W
4634	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
6464	5322 130 31504	BZX79-B3V3
6471	4822 130 81227	BZV55-F5V6
7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41982	BC848B
7234	5322 130 41982	BC848B
7235	5322 130 41982	BC848B
7330	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
7408	4822 209 32374	SDA9088-2 (16:9)
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7470	4822 130 62844	BD826-16
7471	4822 130 62846	ON4590
7472	4822 130 62846	ON4590
7473	5322 130 41982	BC848B
7610	4822 209 30393	TDA8349A/N3
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 63423	TDA2579B/N2

NICAM sound module K

1600	4822 212 23907	ECO-NICAM PAL BG
1600	4822 212 23908	ECO-NICAM PAL I
	4822 265 41087	9P pinstrip

Various

1001	4822 242 81527	crystal 17,472MHz
1002	4822 242 72301	filter TH316BOM-20800DAF
1002	4822 242 72303	filter TH316BQM
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	15nF 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	15nF 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		
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2035		
2036▲		
2037▲		
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2051		
2245		
2246		
3000		
3002		
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3010		
3011		
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3028		
3029▲		
3030		
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3049		
3050		
3099		
3099		

Jumper

4002	
4003	
4005	
4052	
4053	
4054	

Spare parts list / Stückliste / Liste des pièces

8B
8B
8B
8B
8-40

114A
8B
8B
8B
087

088-2WS
088-2 (16:9)
086-3
2369
6-16

90
90
8B
349A/N3
300AQ/N6

579B/N2

ule K

NICAM PAL

NICAM PAL I
strip

I 17,472MHz
H316BOM-
DAF
H316BQM
I 11.700MHz
I 13.104MHz

H316BQM

20% 63V
20% 25V
10% 63V
10% 63V
2% 63V

2% 63V
2% 63V
10% 63V
2% 63V
50V

2% 63V
2% 63V
5% 63V
= 2% 63V
50V

im
% 63V
5% 63V
0V
0% 63V

0% 25V
0% 50V
10% 63V
% 50V

% 50V

0% 50V
10% 63V
0% 63V

0% 25V
2% 63V
= 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

4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4052	4822 051 10008	0Ω 5% 0,25W
4053	4822 051 10008	0Ω 5% 0,25W
4054	4822 051 10008	0Ω 5% 0,25W

Jumper

4055	4822 051 10008	0Ω 5% 0,25W
4100	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

Y/C detector I

Various

1021	4822 212 23929	Y/C detector panel
	4822 265 40503	5P female gold plated
	4822 265 30431	3P female gold plated
1231	4822 242 80364	filter 4,43MHz
2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF +80-20% 50V
2228	4822 122 32927	220nF +80-20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 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
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
3991	4822 051 10399	39Ω 2% 0,25W

5200	4822 157 62824	7,5µH
5201	4822 157 62824	7,5µH
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

ECO-box L'

Connectors

	4822 267 50886	IC socket 18P
	4822 255 40901	IC socket 40P
	4822 265 41328	10P female

Various

1750	4822 212 30887	Eco-box
1064	4822 242 72572	crystal 12 MHz
1162	4822 242 71417	crystal 13,875 000 MHz
2001	4822 122 31768	180pF 2% 63V
2002	4822 122 32504	15pF 2% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31971	10pF 2% 63V
2006	4822 122 32765	820pF 2% 63V
2007	4822 122 31768	180pF 2% 63V
2008	4822 122 31971	10pF 2% 63V
2009	4822 122 32765	820pF 2% 63V
2010	4822 124 22347	47µF 20% 50V
2011	4822 122 33496	100nF 10% 63V
2012	4822 124 41643	100µF 20% 16V
2013	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2019	4822 122 33496	100nF 10% 63V
2024	4822 122 33496	100nF 10% 63V
2025▲	4822 124 40196	220µF 20% 16V
2026	4822 122 33496	100nF 10% 63V
2027▲	4822 124 40196	220µF 20% 16V
2028	4822 122 33496	100nF 10% 63V
2029	4822 122 33496	100nF 10% 63V
2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40435	10µF 20% 50V
2032	4822 122 33496	100nF 10% 63V
2033	4822 124 40435	10µF 20% 50V
2034	4822 122 33496	100nF 10% 63V
2035▲	4822 124 40196	220µF 20% 16V
2036	4822 124 41643	100µF 20% 16V
2037	4822 122 33496	100nF 10% 63V
2038	4822 122 33496	100nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 33496	100nF 10% 63V
2042	4822 122 33496	100nF 10% 63V
2046	4822 122 31765	100pF 2% 63V
2047	4822 122 32139	12pF 2% 63V
2048	4822 122 32142	270pF 2% 63V
2049	4822 122 31772	47pF 2% 63V
2050	4822 122 31971	10pF 2% 63V
2051	4822 122 31767	150pF 2% 63V
2052	4822 122 32083	8,2pF 5% 50V
2053	4822 122 31772	47pF 2% 63V
2055	4822 122 32083	8,2pF 5% 50V
2056	4822 122 31767	150pF 2% 63V
2057	4822 122 31772	47pF 2% 63V
2058	4822 122 33496	100nF 10% 63V
2060	4822 122 33496	100nF 10% 63V
2061	4822 122 33496	100nF 10% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33496	100nF 10% 63V
2064	4822 122 31971	10pF 2% 63V
2065	4822 122 31971	10pF 2% 63V
2066	4822 122 33496	100nF 10% 63V
2070	4822 122 31765	100pF 2% 63V
2071	4822 122 31765	100pF 2% 63V
2072	4822 122 31765	100pF 2% 63V
2074	4822 122 31765	100pF 2% 63V
2075	4822 122 31765	100pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2085	4822 122 31765	100pF 2% 63V
2086	4822 122 31765	100pF 2% 63V
2090	4822 122 33496	100nF 10% 63V
2091	4822 122 33498	2,7nF 10% 63V
2092	4822 122 33496	100nF 10% 63V
2094	4822 122 31765	100pF 2% 63V
2095	4822 122 33496	100nF 10% 63V
2096	4822 122 31644	2,2nF 10% 63V
2097	4822 122 31644	2,2nF 10% 63V
2100	4822 124 41643	100µF 20% 16V
2101	4822 122 33496	100nF 10% 63V
2105	4822 122 33496	100nF 10% 63V
2110	4822 122 31765	100pF 2% 63V
2111	5322 122 31647	1nF 10% 63V
2112	4822 122 31839	82pF 2% 63V
2113	4822 122 33496	100nF 10% 63V
2114	4822 122 33496	100nF 10% 63V
2118	4822 121 42937	2,7nF 1% 250V
2122	4822 122 31765	100pF 2% 63V
2123	4822 122 31772	47pF 2% 63V
2125	4822 122 31746	1000pF 2% 63V
2126	4822 122 31746	1000pF 2% 63V
2127	5322 122 31647	1nF 10% 63V
2128	4822 122 31765	100pF 2% 63V
2140	4822 122 31772	47pF 2% 63V
2141	4822 124 40435	10µF 20% 50V
2142	4822 122 32139	12pF 2% 63V
2145	4822 124 41576	2,2µF 20% 50V
2146	4822 122 32142	270pF 2% 63V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100µF 20% 16V
2152	4822 122 31825	27pF 2% 63V
2155	4822 122 32504	15pF 2% 63V
2156	5322 122 31647	1nF 10% 63V
2157	4822 122 31727	470pF 2% 63V
2158	4822 122 31797	22nF 10% 63V
2159	4822 122 32142	270pF 2% 63V
2160	4822 122 31765	100pF 2% 63V
2161	4822 122 32891	68nF 10% 63V
2162	4822 122 32504	15pF 2% 63V
2163▲	4822 122 32442	10nF 50V

Spare parts list / Stückliste / Liste des pièces

2164▲	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2166	4822 122 33496	100nF 10% 63V
2167	5322 122 31842	330pF 2% 63V
2168▲	4822 122 32442	10nF 50V
2169	4822 122 33496	100nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2175	4822 124 41576	2,2µF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470µF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31772	47pF 2% 63V
2181	4822 122 31772	47pF 2% 63V
2182	4822 122 31772	47pF 2% 63V
2183	4822 122 31772	47pF 2% 63V
2200	4822 122 31772	47pF 2% 63V
2201	4822 122 31765	100pF 2% 63V
2202	4822 122 31772	47pF 2% 63V
2210	4822 124 41643	100µF 20% 16V
2211	4822 122 33496	100nF 10% 63V

3003	4822 051 10109	10Ω 2% 0,25W
3004	4822 051 51201	120Ω 1% 0,125W
3005	4822 051 51201	120Ω 1% 0,125W
3009	4822 051 10181	180Ω 2% 0,25W
3010	4822 051 10681	680Ω 2% 0,25W
3011	4822 051 10821	820Ω 2% 0,25W
3012▲	4822 052 10279	27Ω 5% 0,33W
3013	4822 116 52231	820Ω 5% 0,5W
3014	4822 051 52401	240Ω 1% 0,125W
3015	4822 051 56201	620Ω 1% 0,125W
3016	4822 051 10471	470Ω 2% 0,25W
3017	4822 051 51501	150Ω 1% 0,125W
3018	4822 051 59101	910Ω 1% 0,125W
3019	4822 051 10471	470Ω 2% 0,25W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 10162	1k6 2% 0,25W
3026▲	4822 051 10242	2k4 2% 0,25W
3028	4822 051 10209	20Ω 2% 0,25W
3045	4822 051 10479	47Ω 2% 0,25W
3046	4822 051 10221	220Ω 2% 0,25W
3047	4822 051 10339	33Ω 2% 0,25W
3048	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10339	33Ω 2% 0,25W
3050	4822 051 10102	1k 2% 0,25W
3051	4822 051 10339	33Ω 2% 0,25W
3052	4822 051 52201	220Ω 1% 0,125W
3055	4822 051 10759	75Ω 2% 0,25W
3056	4822 051 53301	330Ω 1% 0,125W
3057	4822 051 53601	360Ω 1% 0,125W
3060	4822 051 10512	5k1 2% 0,25W
3062▲	4822 052 10279	27Ω 5% 0,33W
3070	4822 051 10101	100Ω 2% 0,25W
3071	4822 051 10182	1k8 2% 0,25W
3072	4822 051 10182	1k8 2% 0,25W
3073	4822 116 52233	10k 5% 0,5W
3075	4822 051 10102	1k 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10471	470Ω 2% 0,25W
3083	4822 116 52175	100Ω 5% 0,5W
3085	4822 051 10101	100Ω 2% 0,25W
3086	4822 051 10101	100Ω 2% 0,25W
3087	4822 051 10229	22Ω 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3091	4822 051 10109	10Ω 2% 0,25W
3092	4822 051 10622	6k2 2% 0,25W
3093	4822 051 10511	510Ω 2% 0,25W
3095	4822 051 10562	5k6 2% 0,25W
3096	4822 051 20222	2k2 5% 0,1W
3097	4822 051 10102	1k 2% 0,25W
3098	4822 051 10102	1k 2% 0,25W
3099	4822 051 52701	270Ω 1% 0,125W
3100▲	4822 052 10159	15Ω 5% 0,33W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 10104	100k 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10683	68k 2% 0,25W
3110	4822 051 10162	1k6 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3114	4822 051 10122	1k2 2% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10229	22Ω 2% 0,25W
3118	4822 051 10333	33k 2% 0,25W
3119	4822 100 20166	10k 30% LIN
3120	4822 051 10153	15k 2% 0,25W
3121	4822 051 10152	1k5 2% 0,25W
3122	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10101	100Ω 2% 0,25W
3124	4822 051 10272	2k7 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10113	11k 2% 0,25W
3128	4822 051 10153	15k 2% 0,25W
3130	4822 051 10683	68k 2% 0,25W
3131	4822 100 20166	10k 30% LIN
3132	4822 051 10102	1k 2% 0,25W
3134	4822 051 10152	1k5 2% 0,25W
3136	4822 051 10153	15k 2% 0,25W
3137	4822 051 10153	15k 2% 0,25W
3140	4822 051 10181	180Ω 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3143	4822 051 10683	68k 2% 0,25W
3144	4822 051 20222	2k2 5% 0,1W
3145	4822 051 10221	220Ω 2% 0,25W
3146	4822 051 10681	680Ω 2% 0,25W
3147	4822 051 10221	220Ω 2% 0,25W
3149	4822 051 10272	2k7 2% 0,25W
3150▲	4822 116 81193	15Ω 5% 0,3W
3151	4822 051 10101	100Ω 2% 0,25W
3153▲	4822 051 10008	0Ω 5% 0,25W
3154	4822 116 52256	2k2 5% 0,5W
3155	4822 051 20222	2k2 5% 0,1W
3156	4822 051 10473	47k 2% 0,25W
3157	4822 051 10473	47k 2% 0,25W
3158	4822 051 10101	100Ω 2% 0,25W
3159	4822 051 10569	56Ω 2% 0,25W
3160	4822 116 81783	1M5 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3165▲	4822 052 10279	27Ω 5% 0,33W
3168	4822 051 10513	51k 2% 0,25W
3178	4822 051 10132	1k3 2% 0,25W
3180	4822 051 10561	560Ω 2% 0,25W
3181	4822 051 10561	560Ω 2% 0,25W
3182	4822 051 10561	560Ω 2% 0,25W
3183	4822 051 10759	75Ω 2% 0,25W
3201	4822 051 10101	100Ω 2% 0,25W

Jumper

4001▲	4822 051 10008	0Ω 5% 0,25W

5001	4822 157 53001	27µH 10%
5002	4822 157 53001	27µH 10%
5004	4822 157 53066	15µH 10%
5007	4822 157 53066	15µH 10%
5011	4822 152 20677	10µH 10%
5012	4822 152 20677	10µH 10%
5025	4822 157 60147	2,2µH
5026	4822 157 60147	2,2µH
5034	4822 157 60147	2,2µH
5035	4822 157 60147	2,2µH
5036	4822 157 60147	2,2µH
5040	4822 157 60147	2,2µH
5041	4822 157 60147	2,2µH
5042	4822 157 60147	2,2µH
5047	4822 157 62552	2,2µH
5049	4822 157 60122	1,5µH 20%
5052	4822 157 60122	1,5µH 20%
5054	4822 157 60122	1,5µH 20%
5063	4822 157 60147	2,2µH
5066	4822 157 60147	2,2µH
5079	4822 152 20677	10µH 10%
5083	4822 157 60147	2,2µH
5146	4822 157 53001	27µH 10%
5152	4822 157 52224	15µH 10%
5169	4822 157 60147	2,2µH
5170	4822 157 60147	2,2µH
5177	4822 157 60147	2,2µH

6001	4822 130 80446	LL4148
6003	4822 130 80446	LL4148
6004	4822 130 80446	LL4148
6006	4822 130 82334	BAS85
6025	4822 130 80446	LL4148
6026	4822 130 80905	BZV55-F5V1
6080	4822 130 81511	LLZ-C3V6
6122	4822 130 80884	LLZ-C5V1
6127	4822 130 80446	LL4148

7010	4822 130 42131	BF550
7011	4822 130 42513	BC858C
7016▲	5322 130 41982	BC848B
7019▲	5322 130 41982	BC848B
7020	4822 130 42513	BC858C
7021▲	5322 130 41982	BC848B
7022	5322 130 42136	BC848C
7023	4822 130 40938	BC548
7025	5322 130 42136	BC848C
7030	5322 130 44743	BSR12
7031	5322 130 44743	BSR12
7032▲	5322 130 41982	BC848B
7034▲	5322 130 41982	BC848B
7035	5322 130 41983	BC858B
7036	5322 130 41983	BC858B
7037▲	5322 130 41982	BC848B
7074▲	5322 130 41982	BC848B
7077▲	5322 130 41982	BC848B
7080▲	5322 130 41982	BC848B
7122▲	5322 130 41982	BC848B
7125	5322 130 41983	BC858B
7127	5322 130 41983	BC858B
7142	5322 130 41983	BC858B
7143▲	5322 130 41982	BC848B
7148▲	5322 130 41982	BC848B
7200	4822 209 30402	TDA2579B/N2/S1
7201	5322 209 31799	PC74HC4538T
7201	5322 209 31799	PC74HC4538T
7203▲	4822 209 83163	LM833N
7231	4822 209 31056	SDA9205-2
7240	4822 209 52418	TMS4C1070B-30N
7241	4822 209 52418	TMS4C1070B-30N
7242	4822 209 52418	TMS4C1070B-30N
7245	4822 209 32581	SAA4970T/V1
7250	4822 209 63645	SAA5231/V7
7260	4822 209 72042	MC78L05ACP
7262	5322 209 31799	PC74HC4538T
7265	4822 209 72042	MC78L05ACP
7266	4822 209 63644	SDA9086-3
7269	5322 209 61004	N74F74D
7271	4822 209 52359	HYB514256B-70
7275	4822 209 31851	SAA9042P/A/MOB
7283	4822 209 52422	Eprom+ software