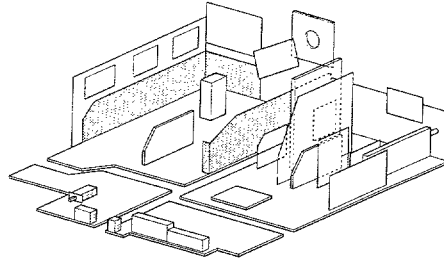


Service  
Service  
Service



**FL2.24**  
**FL2.26**  
**FL4.27**

AA

# Service Manual

## Contents

## Page

1. Technical data		2	
2. Connection facilities and chassis overview		2	
3. Warnings and notes		3	
4. Mechanical instructions		3	
5. Block diagram		4	
6. <i>Electrical diagrams and PWB lay-out</i>			
Tuner, source selection	(Diagram C)	7	6
Synchronisation and deflection	(Diagram B)	8	17
(FLx.26/.27)	(Diagram D)	9	6
Video processing	(Diagram B)	10	19
Synchronisation and deflection	(Diagram F)	11	6
(FLx.24)	(Diagram A)	12	17
Sound processing	(Diagram H)	13	6
Power supply (FLx.26/.27)	(Diagram A)	14	19
Control	(Diagram E)	15	15
Power supply (FLx.24)	(Diagram G)	16	17,19
Picture tube panel	(Diagram I)	18	18
Sound power amplifier	(Diagram Y)	18	18
Y/C detector	(Diagram Z)	18	18
SCAVEM filter (+ picture rotation 16:9)	(Diagram K)	20	20
SCAVEM amplifier	(Diagram J)	21	20
NICAM decoder	(Diagram M)	22	23
PiP (Picture in Picture)	(Diagram L)	23	23
100 Hz Digital Scan (FLx.24/.26)	(Diagram L')	24	24
Teletext (FLx.24/.26)	(Diagram N)	25	25
100 Hz/Teletext (FLx.27)	(Diagram D')	26	26
Comb filter	(Diagram B')	26	26
Black Stretch	(Diagram P)	26	26
North / South correction 29" (N/S)	(Diagram R)	26	26
Interface EURO AV3		26	26
Connector EURO AV3		26	26
7. Electrical adjustments		27	
8. Fault finding methods and repair tips		29	
9. Direction for use		31	
10. Electrical parts list		33	





In this reprinted service manual the following diagrams have been replaced:

<b>Diagram</b>	<b>Page</b>
Block diagram	4
Source Select	7
Synchronisation FLx.26/.27	8
Video processing	9
Synchronisation FLx.24	10
Sound Processing	11
Power supply FLx.26/.27	12
SCAVEM	18
PIP	21
LFR box	22

The following Service Informations are included:

- FL 94.03
- FL 94.05

### Corrections to Chapter 7

*Paragraph 3.2 and 3.4*

Actual	Must be
(fig. 7.9) 7.64µs	(fig. 7.4) 6.4µs

Figure 7.4	
744µs ± 175ns	6.4µs ± 175ns

### Corrections to Chapter 8

*Paragraph 5*

In some versions it is not possible to re-route the signal path after removing the PiP module because of the use of different connectors.

*Paragraph 8.4.1 and 8.4.2*

Error message 99 (software protection) is not indicated by the LED's any more.  
 In case of hardware protection the set switches to stand-by and back on again, once in every few seconds.  
 Just before switching to stand-by, in case of protection, both red and green LED's light up.

D

In diese Nachdruck der Service Manual sind die folgende Schaltbilder geändert worden.

Schaltbild		Seite
Blockschaltbild		4
Quellenwahl	(Schaltbild C)	7
Synchronisierung FLx.26/.27	(Schaltbild B)	8
Video Verarbeitung	(Schaltbild D)	9
Synchronisierung FLx.24	(Schaltbild B)	10
Ton Verarbeitung	(Schaltbild F)	11
Stromversorgung FLx.26/.27	(Schaltbild A)	12
SCAVEM	(Schaltbild Z)	18
Bild im Bild	(Schaltbild J)	21
LFR box	(Schaltbild M)	22

Die folgenden Service Informationen sind Beigeliefert:

FL 94.03  
FL 94.05

### Korrekturen zur Kapitel 7

#### Paragraph 3.2 und 3.4

Jetzt	Muß sein
(Abb. 7.9)	(Abb. 7.4)
7.64µs	6.4µs
Abbildung 7.4	
744µs ± 175ns	6.4µs ± 175ns

### Korrekturen zur Kapitel 8

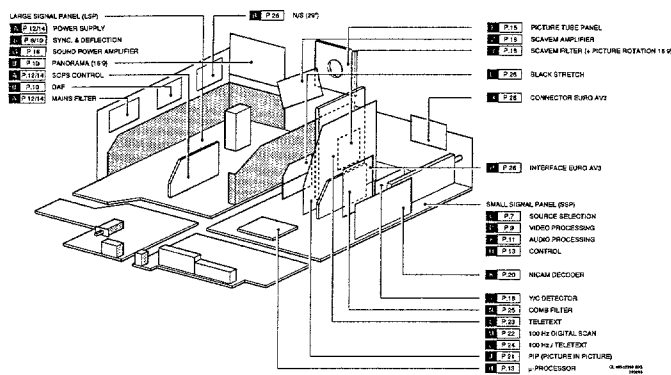
#### Paragraph 5

In manche Versionen ist es nicht möglich um das Signal durch zu fuhren, wenn das Bild im Bild Modul entfernt ist, weil unterschiedliche Stecker gebraucht worden sind.

#### Paragraph 8.4.1 und 8.4.2


Fehlermeldung 99 (Software-Schutz) wird nicht mehr angezeigt von der LED's.  
Wenn die Hardware-Schutz aktiv ist, schaltet das Gerät zu Stand-by und wieder ein, mit ein Frequenz von einmal in einige Sekunden.  
Kurz bevor das Gerät zu Stand-by geschaltet wird, leuchten beide LED's gleichzeitig auf.

## Chassis overview



## 3. Warnings and Notes

### Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol **▲**.
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, 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 0V (after approx. 30s).
3. **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.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier is connected to the -16/-11 volts.**
11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.
12. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

### Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth ( $\perp$ ), or hot earth ( $\perp$ ) 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  $(\overline{\square})$  and without aerial signal ( $\overline{\times}$ ). Voltages in the power supply section are measured both for normal operation ( $\odot$ ) and in standby ( $\ominus$ ). 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.

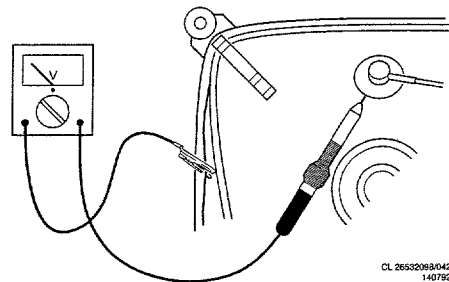


Fig. 3.1

CL 2652068/042  
140792

# 3 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)

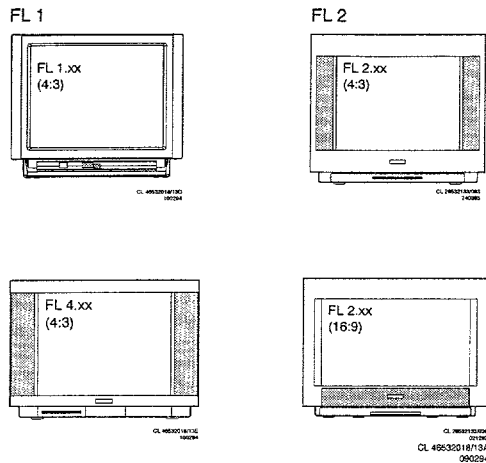


Fig. 4.1

## 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 or lugs E for FL4.

Remove the rear panel from the set.

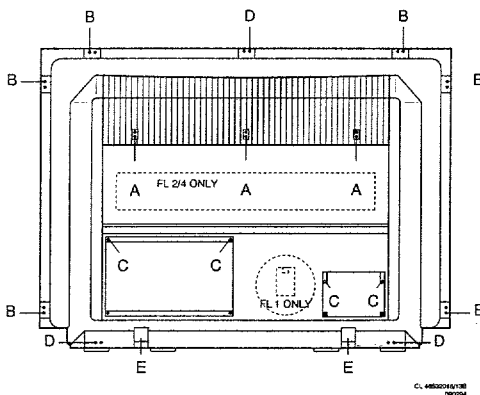


Fig. 4.2

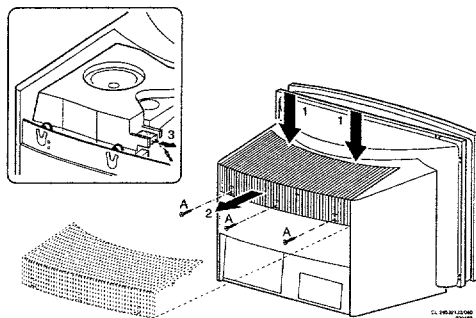


Fig. 4.3

## 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.

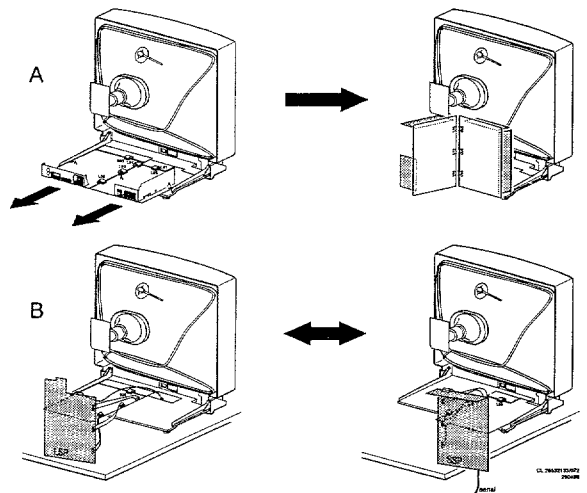


Fig. 4.4

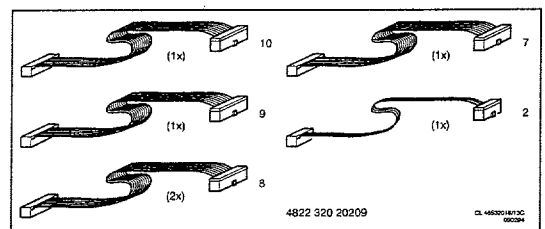


Fig. 4.5

## 4. Service positions FL2 (fig. 6)

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.

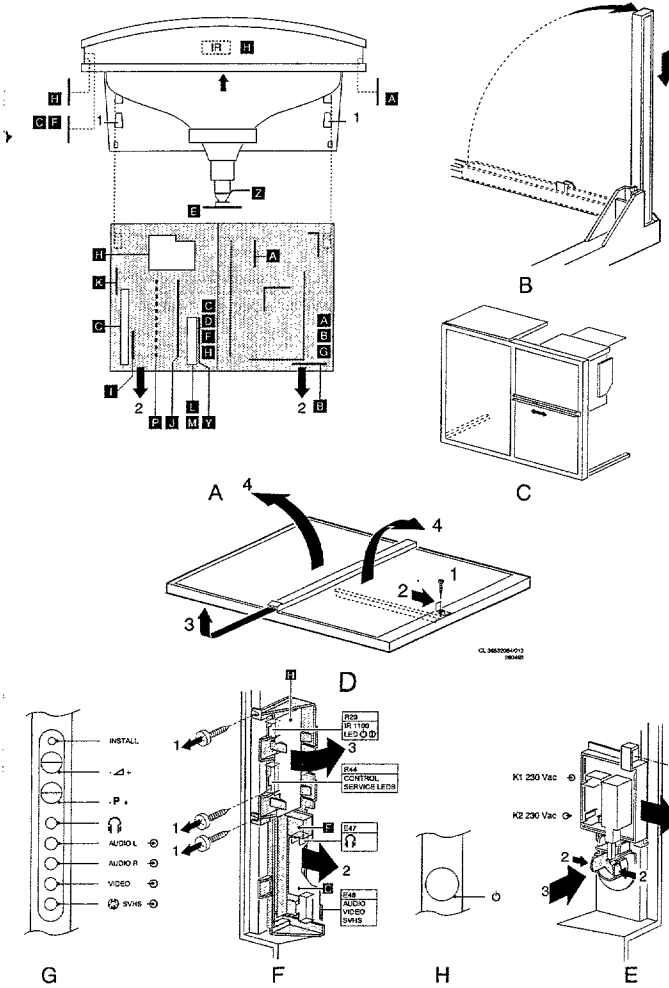


Fig. 4.6

**5. Service position FL4 (fig. 7)**

An FL4 model can be put into service position 1 in the same manner as an FL2 model. Service position 2 is accomplished by tilting the whole frame once the cabling has been disconnected (the cable to the front connectors (E47, E48) may be disconnected). A stud on the frame and a hook on the case ensure a stable service position.

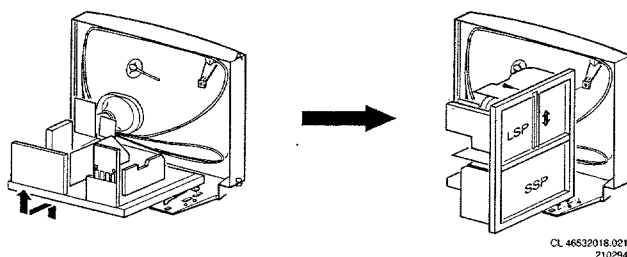


Fig. 4.7

**6. Removing the mask from FL2 (fig. 8)**

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.

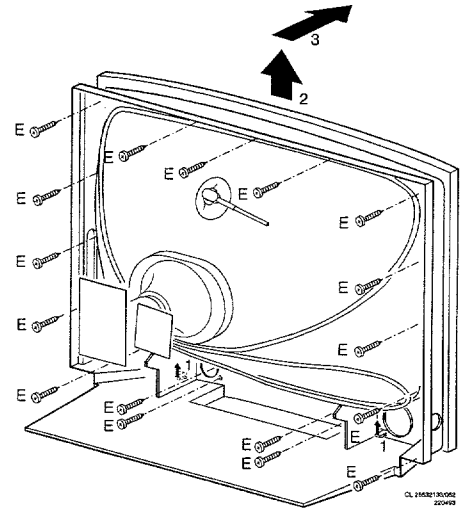


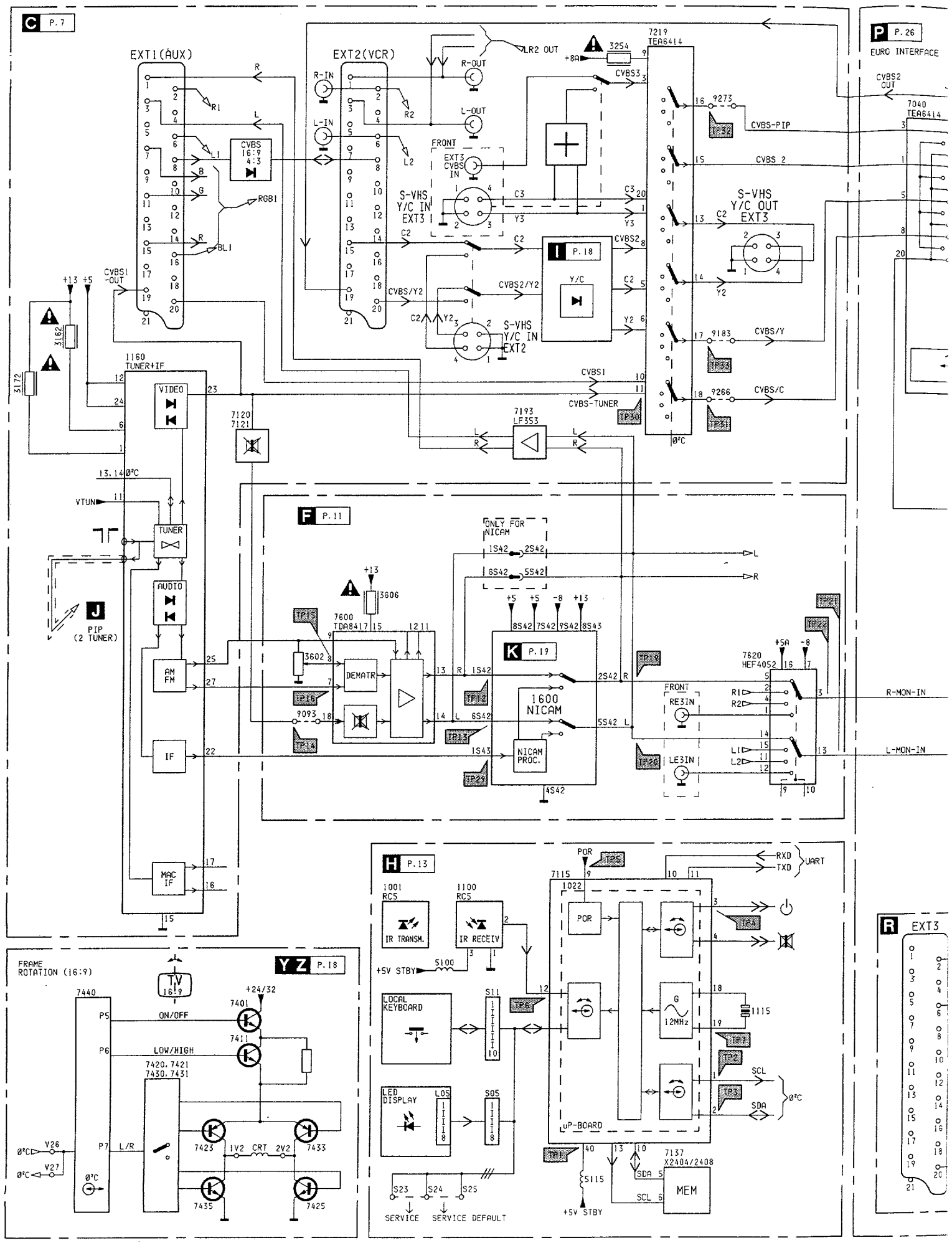
Fig. 4.8

**7. 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 1 kgm (10Nm) is achieved. The picture tube tubular rivets are obtainable under code numbers:  
 For 28" picture tubes and smaller: 4822 532 12243 ( $\leq 28''$ )  
 For 29" picture tubes and larger: 4822 404 31294 ( $\geq 29''$ )  
 Four tubular rivets are required per picture tube.

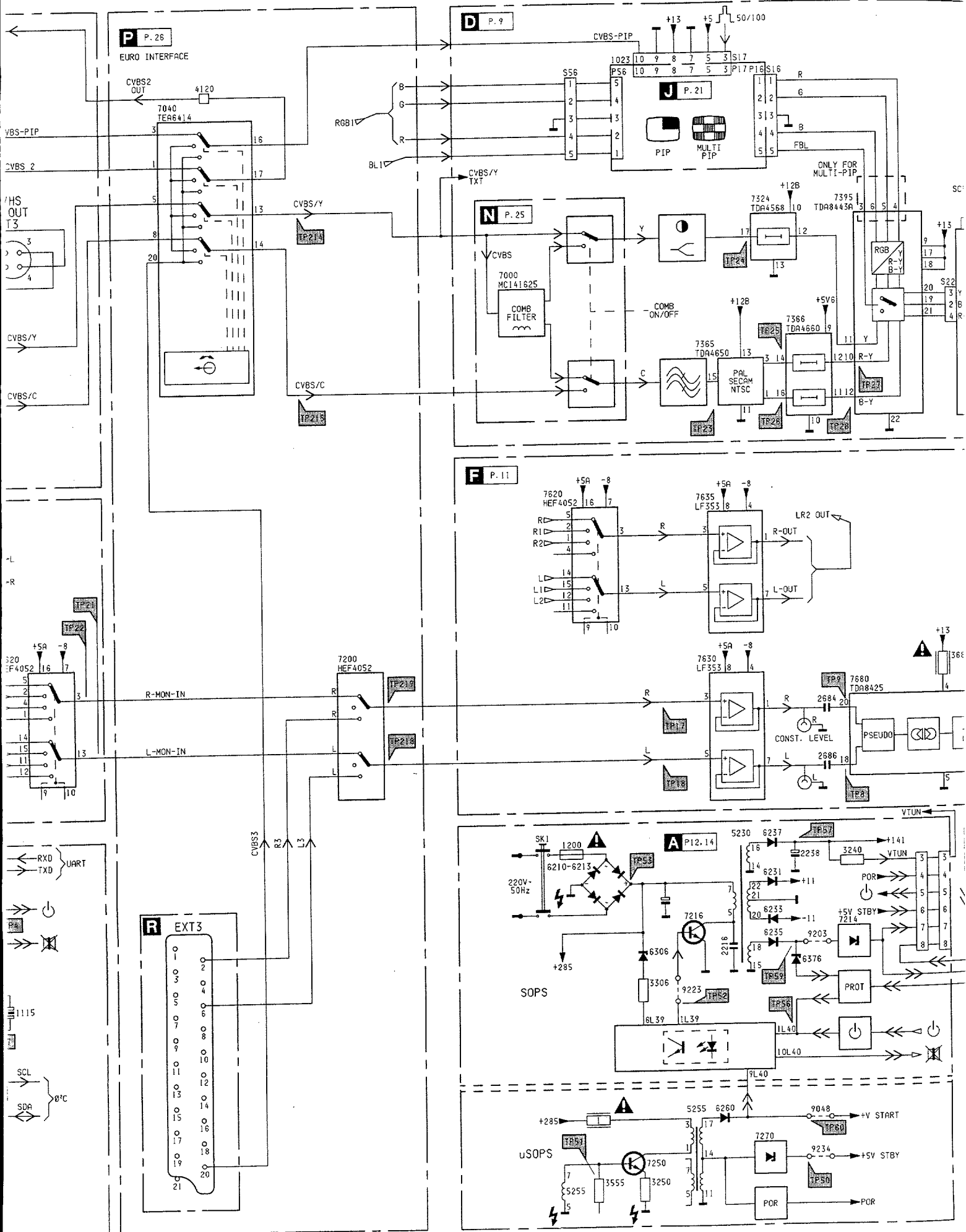
# Blockdiagram / Blockschaltbild /



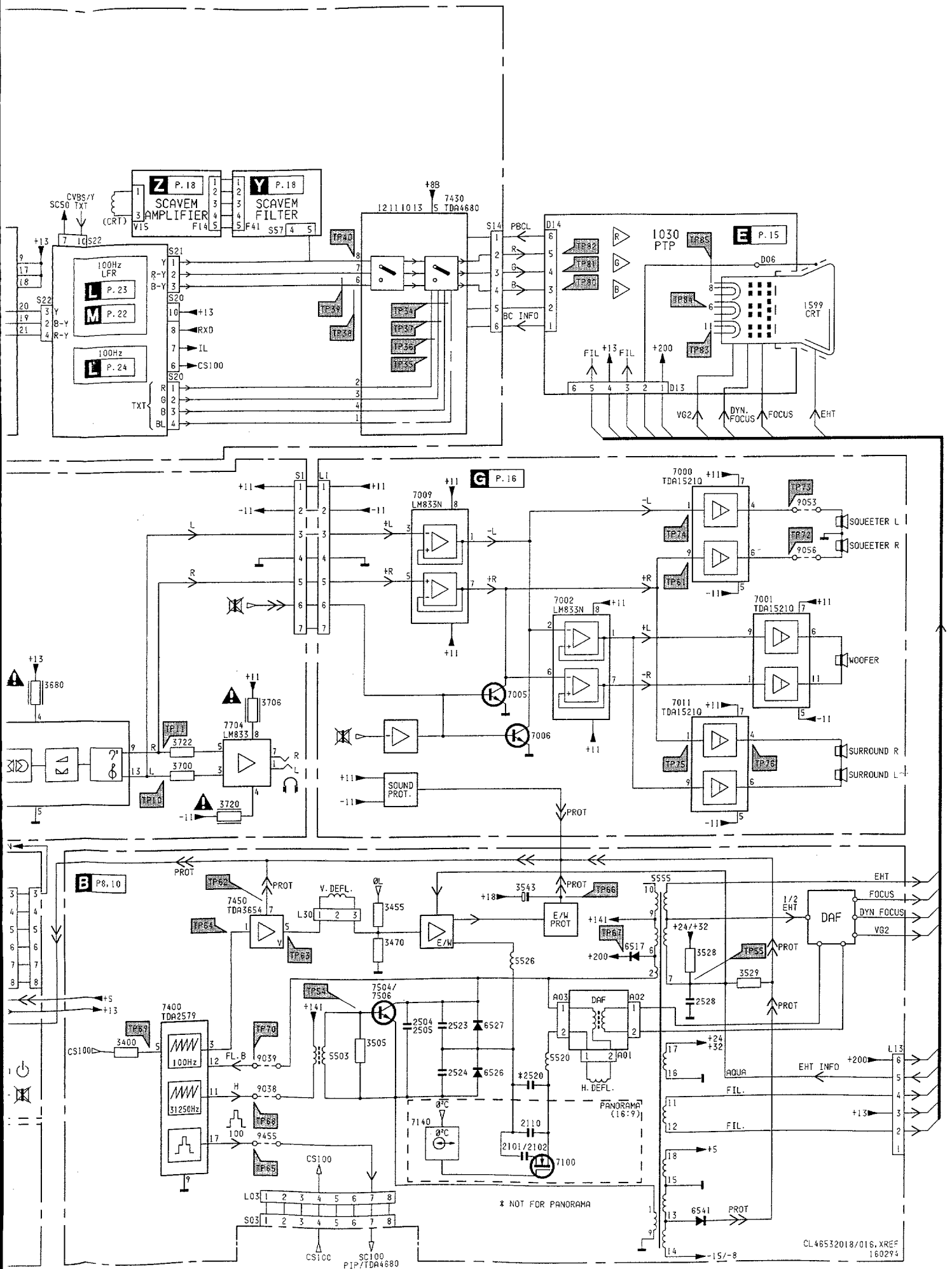
**R EXT3**

0	2
1	3
2	4
3	5
4	6
5	7
6	8
7	9
8	10
9	11
10	12
11	13
12	14
13	15
14	16
15	17
16	18
17	19
18	20
19	21
20	
21	



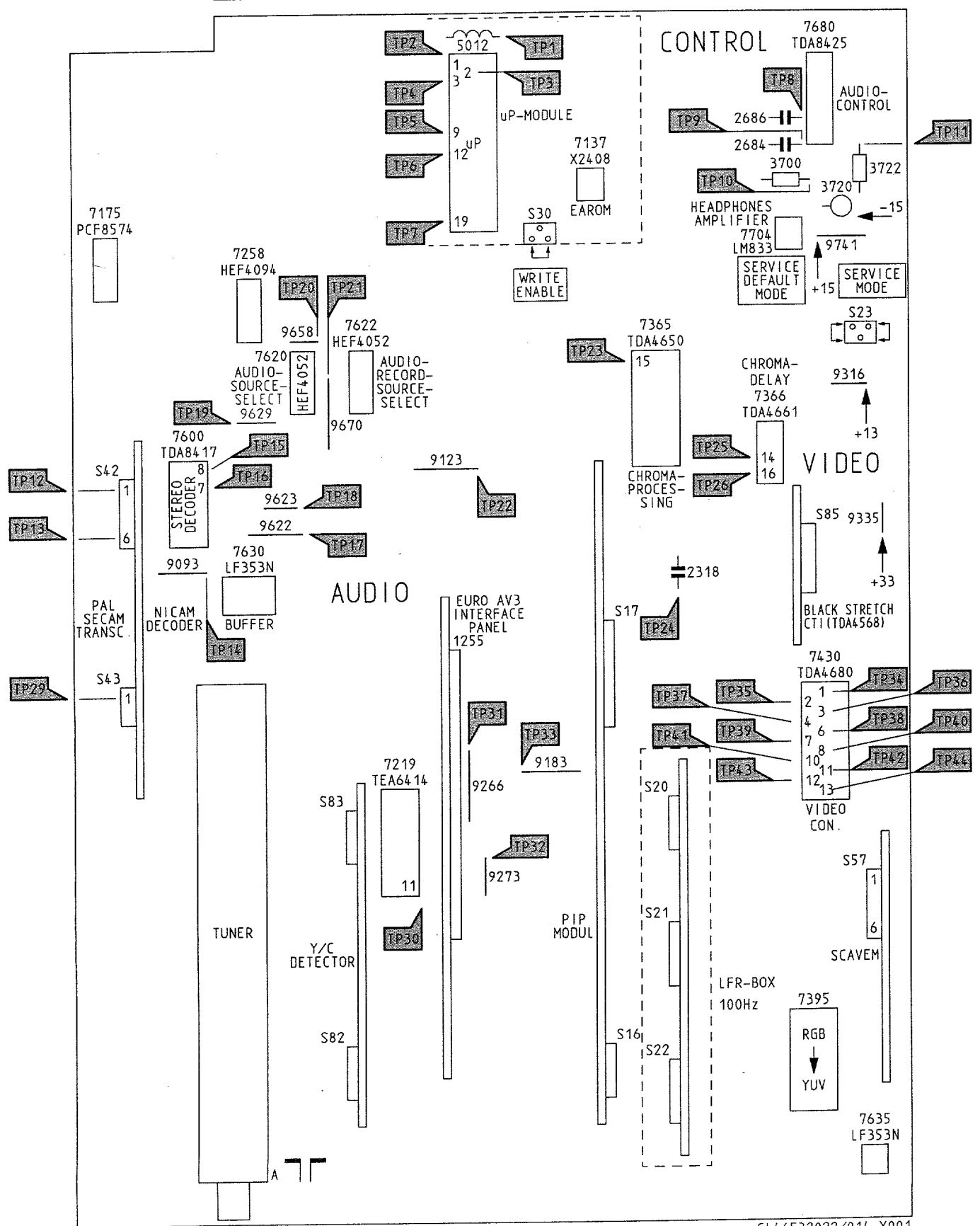


# 4 Diagramme schématique

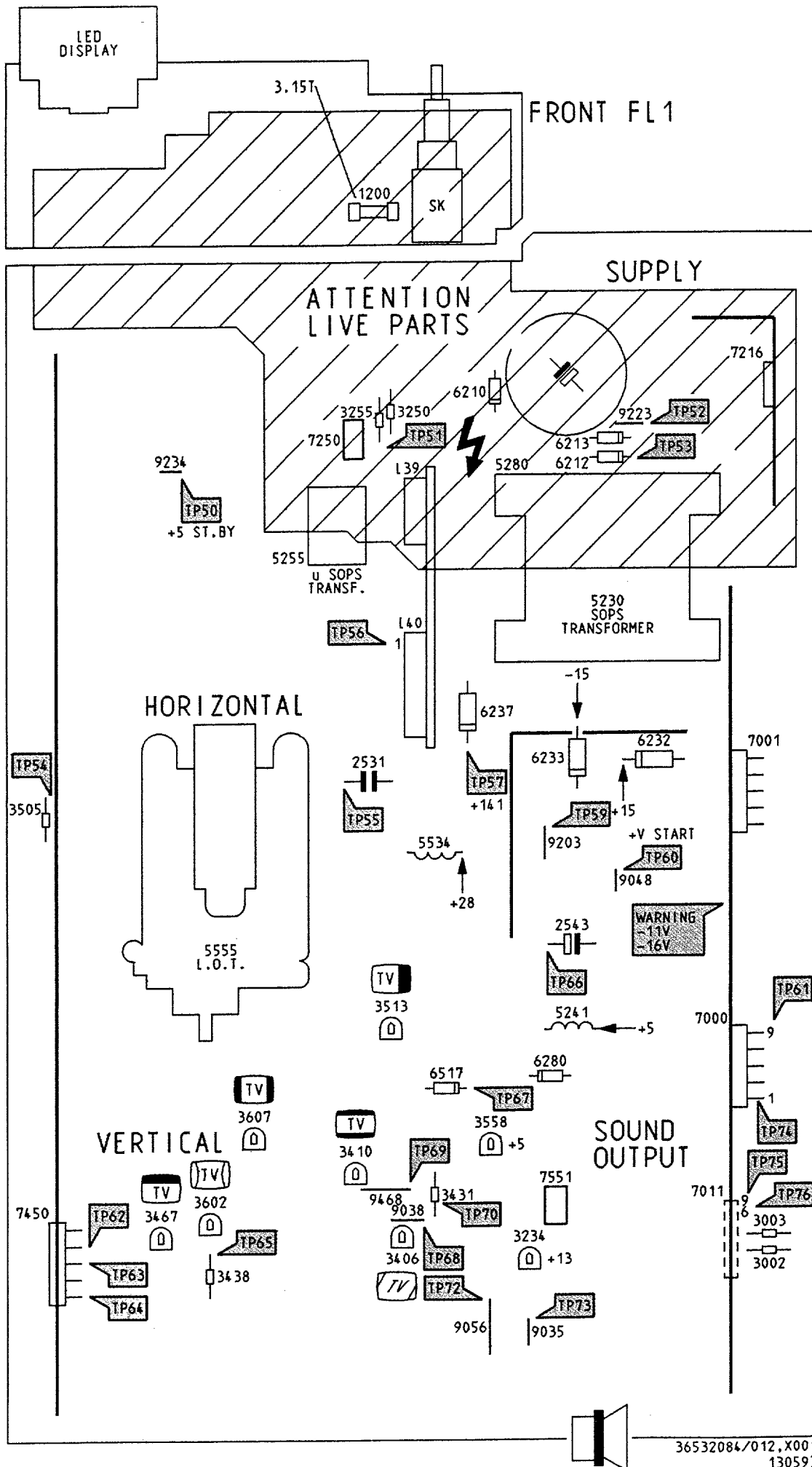




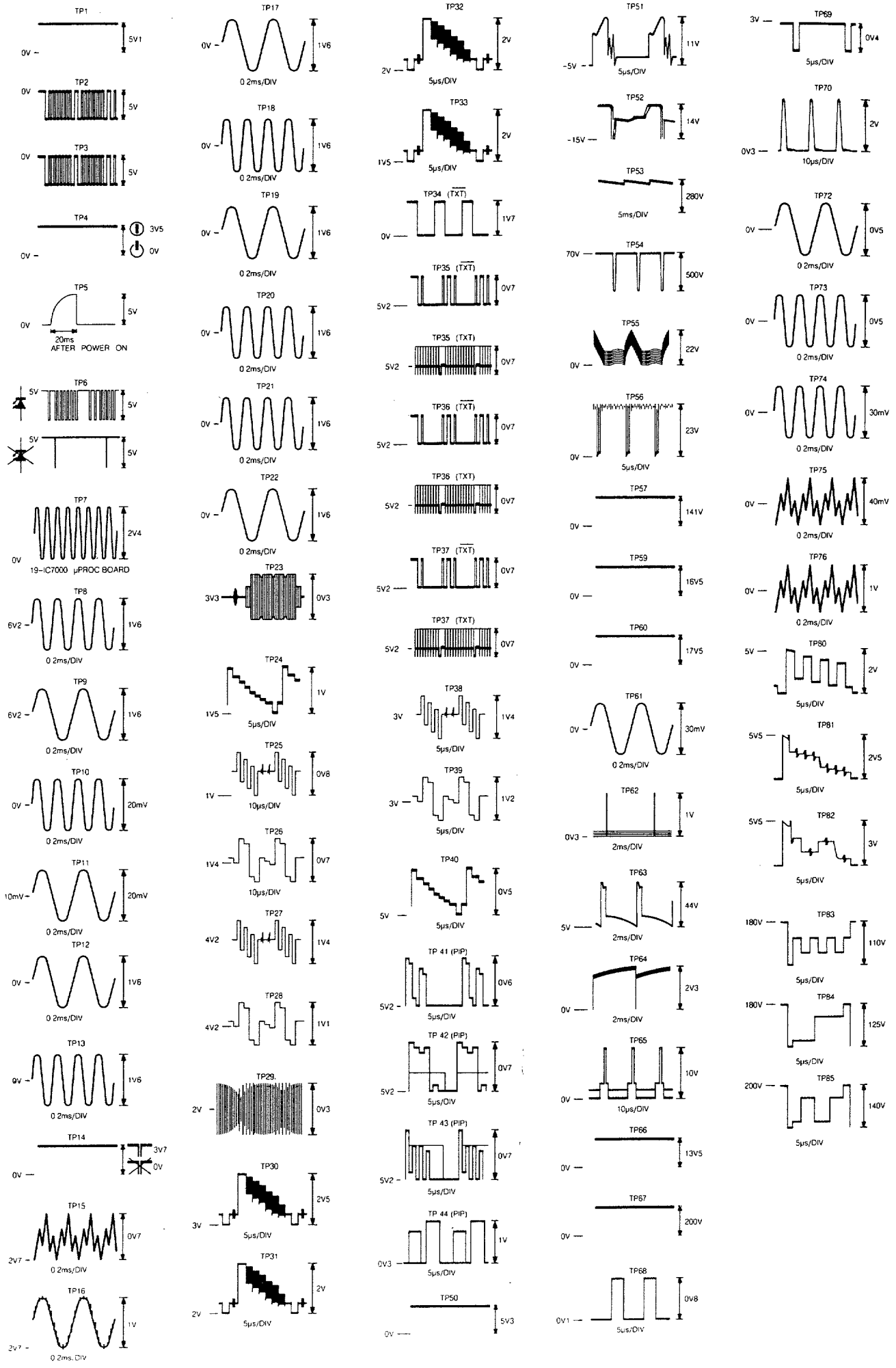
FRONT FL1



# Large signal panel / Groß-signal Platte / Platine forts signaux

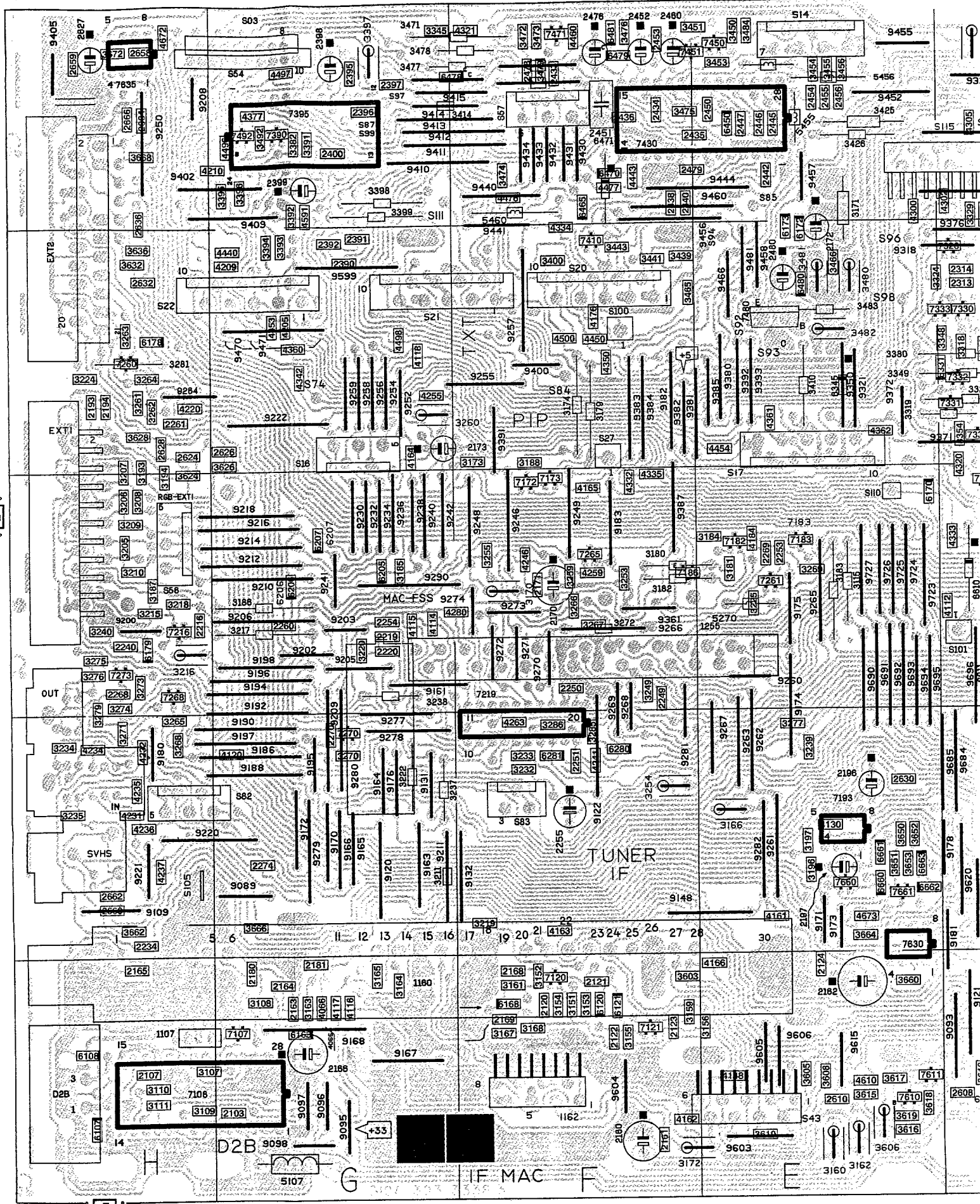


# Oscillograms / Oscillogrammes

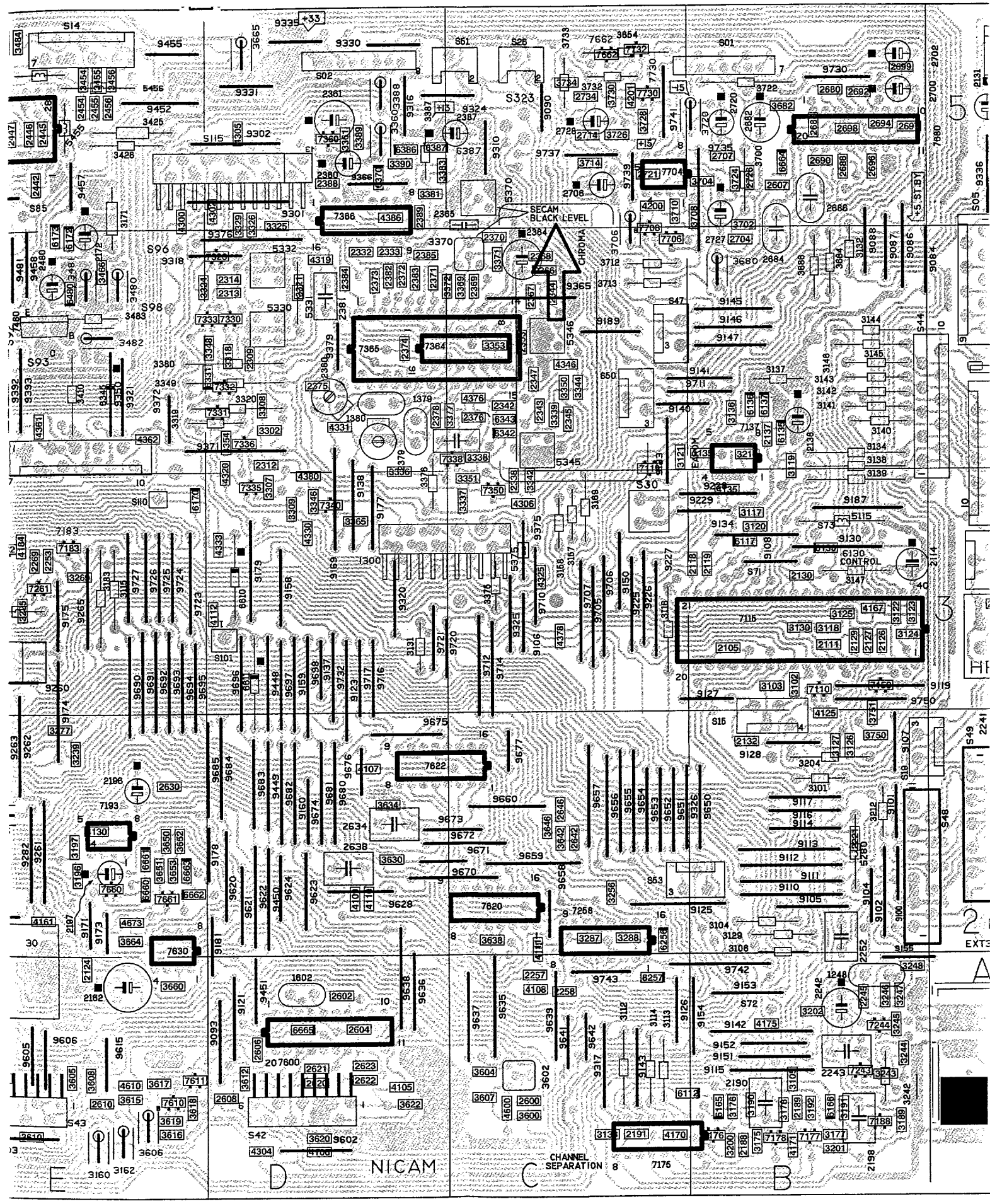




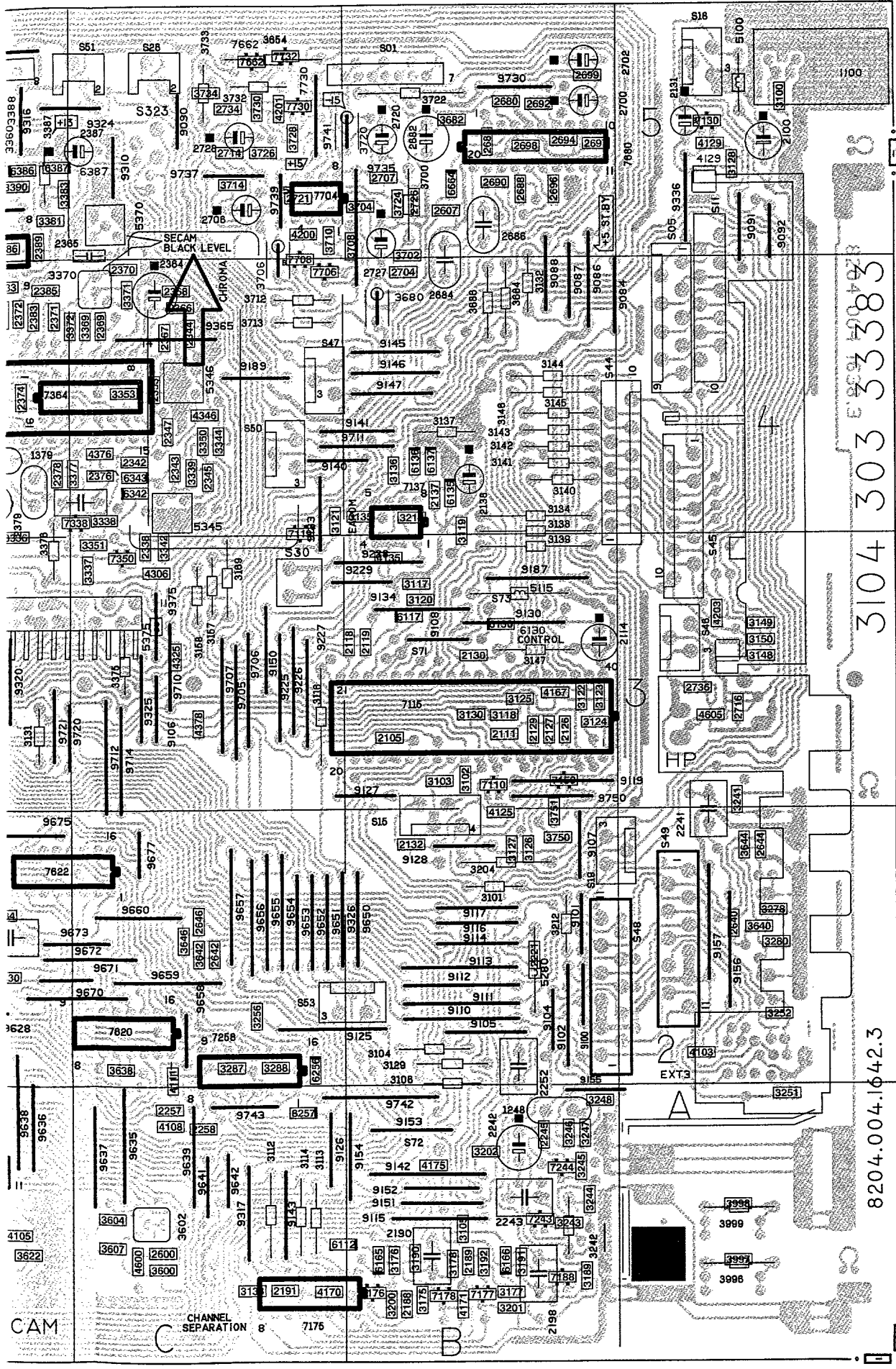
# Small signal panel / Klein-signal Platte / Platine à petites signaux



# igneaux







EXT1	H3	2332	D4	3100
EXT2	H4	2333	D4	3101
EXT3	A3	2338	C3	3102
D2B	H1	2342	C4	3103
SVHS	H2	2343	C4	3104
S01	C5	2344	C4	3105
S02	D5	2345	C4	3106
S03	H5	2347	C4	3107
S05	A5	2353	C4	3108
S11	A5	2360	D5	3109
S14	E5	2361	D5	3110
S15	B3	2364	C4	3111
S16	G4	2365	C5	3112
S17	E4	2366	C4	3113
S18	A5	2367	C4	3114
S19	B2	2368	C4	3115
S20	F4	2369	C4	3116
S21	F4	2370	C5	3117
S22	G4	2371	D4	3118
S26	C5	2372	D4	3119
S27	F4	2373	D4	3120
S42	D1	2374	D4	3121
S43	F1	2375	D4	3122
S44	B4	2376	C4	3123
S45	A4	2377	D4	3124
S46	A3	2378	D4	3125
S47	C4	2379	D4	3126
S48	B2	2380	D4	3127
S49	A2	2381	D4	3128
S50	C4	2382	D4	3129
S51	C5	2383	D4	3130
S53	B2	2384	D4	3131
S54	H5	2385	D4	3132
S56	H3	2387	D5	3133
S57	F5	2388	D5	3134
S82	H2	2389	D5	3135
S83	F2	2390	G4	3136
S100	F4	2391	G5	3137
S101	D3	2392	G4	3138
S105	H2	2395	G5	3139
S115	E5	2396	G5	3140
1100	A5	2397	G5	3141
1107	H1	2398	G5	3142
1160	E2	2399	G5	3143
1162	F1	2400	G5	3144
1248	B1	2433	F5	3145
1300	D3	2434	F5	3146
1379	D4	2435	F5	3147
1380	D4	2436	F5	3148
1602	D1	2438	F5	3149
2100	A5	2440	F5	3150
2103	H1	2442	E5	3151
2105	B3	2445	E5	3152
2107	H1	2446	E5	3153
2111	B3	2447	E5	3154
2114	B3	2450	F5	3155
2118	C3	2451	F5	3156
2119	B3	2452	F5	3157
2120	F1	2453	F5	3158
2121	F1	2454	F5	3159
2122	F1	2455	F5	3160
2123	F1	2456	F5	3161
2124	E1	2460	F5	3162
2126	B3	2476	F5	3163
2127	B3	2478	F5	3164
2129	B3	2479	F5	3165
2130	B3	2480	E4	3166
2131	A5	2600	C1	3167
2132	B2	2602	D1	3168
2137	B4	2604	D1	3169
2138	B4	2606	D1	3170
2160	F1	2607	B5	3171
2161	F1	2608	D1	3172
2162	E1	2610	E1	3173
2163	G1	2620	D1	3174
2164	G1	2621	D1	3175
2165	H1	2622	D1	3176
2166	G1	2623	D1	3177
2168	F1	2624	H4	3178
2169	F1	2626	H4	3179
2170	F3	2627	H5	3180
2171	F3	2628	H4	3181
2172	E5	2630	E2	3182
2173	G4	2632	H4	3183
2180	G1	2634	D2	3184
2181	G1	2636	H5	3185
2188	B1	2638	D2	3186
2189	B1	2640	A2	3187
2190	B1	2642	C2	3188
2191	C1	2644	A2	3189
2193	H4	2646	C2	3190
2194	H4	2658	H5	3191
2196	E2	2659	H5	3192
2197	E2	2660	H2	3193
2198	B1	2662	H2	3194
2216	H3	2664	H5	3195
2219	G3	2666	H5	3197
2220	G3	2680	B5	3200
2221	B2	2681	B5	3201
2234	H2	2682	B5	3202
2240	H3	2684	B5	3204
2241	A3	2686	B5	3205
2242	B1	2688	B5	3206
2243	B1	2690	B5	3207
2245	B1	2694	B5	3208
2249	F9	2694	B5	3209
2250	F3	2696	B5	3210
2251	F2	2697	B5	3211
2252	B2	2698	B5	3212
2253	E9	2699	B5	3213
2254	G3	2700	B5	3215
2255	F2	2702	B5	3216
2257	C1	2704	B4	3217
2258	C1	2706	C5	3218
2260	G3	2707	B5	3219
2261	H4	2714	C5	3220
2268	H3	2716	A3	3222
2269	E3	2720	B5	3224
2270	G2	2721	C5	3225
2274	G2	2726	B5	3226
2309	D4	2727	B5	3233
2312	D4	2728	C5	3234
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2314	D4	2736	A3	3237

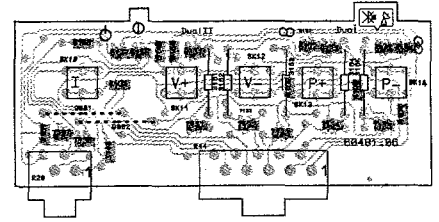
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CAM

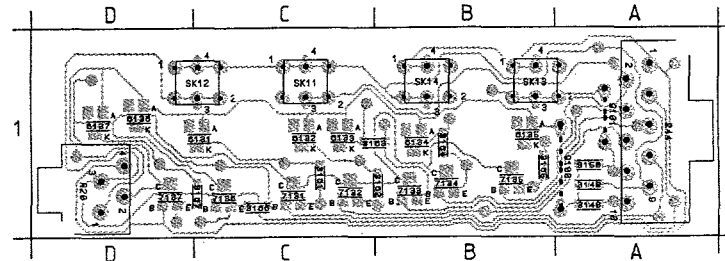
CHANNEL SEPARATION 8

### FL2 LED/Control

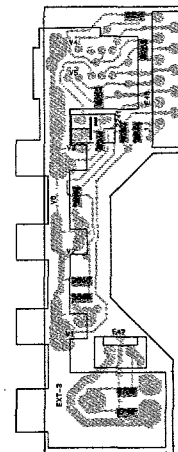


### FL4 LED/Control

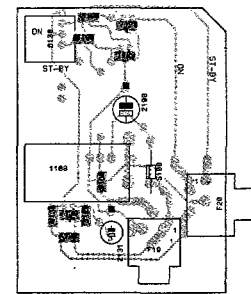
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3165 A 1	3165 B 1	3193 C 1	3191 C 1	3198 C 1	R44 A 1	
3161 C 1	3165 C 1	3194 B 1	3192 C 1	3197 D 1	SK11 C 1	
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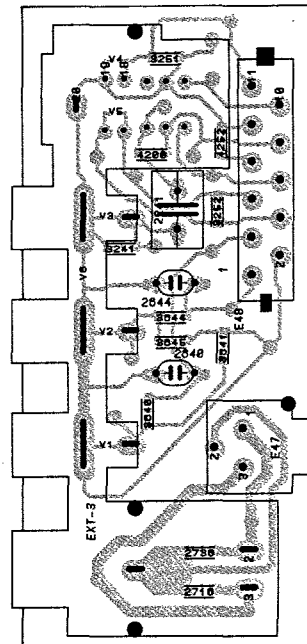
### FL2 Front



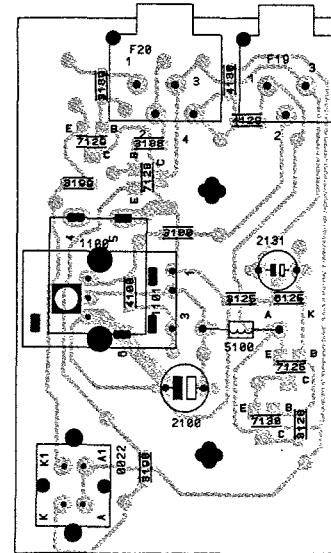
### FL2 IR



### FL4 Front



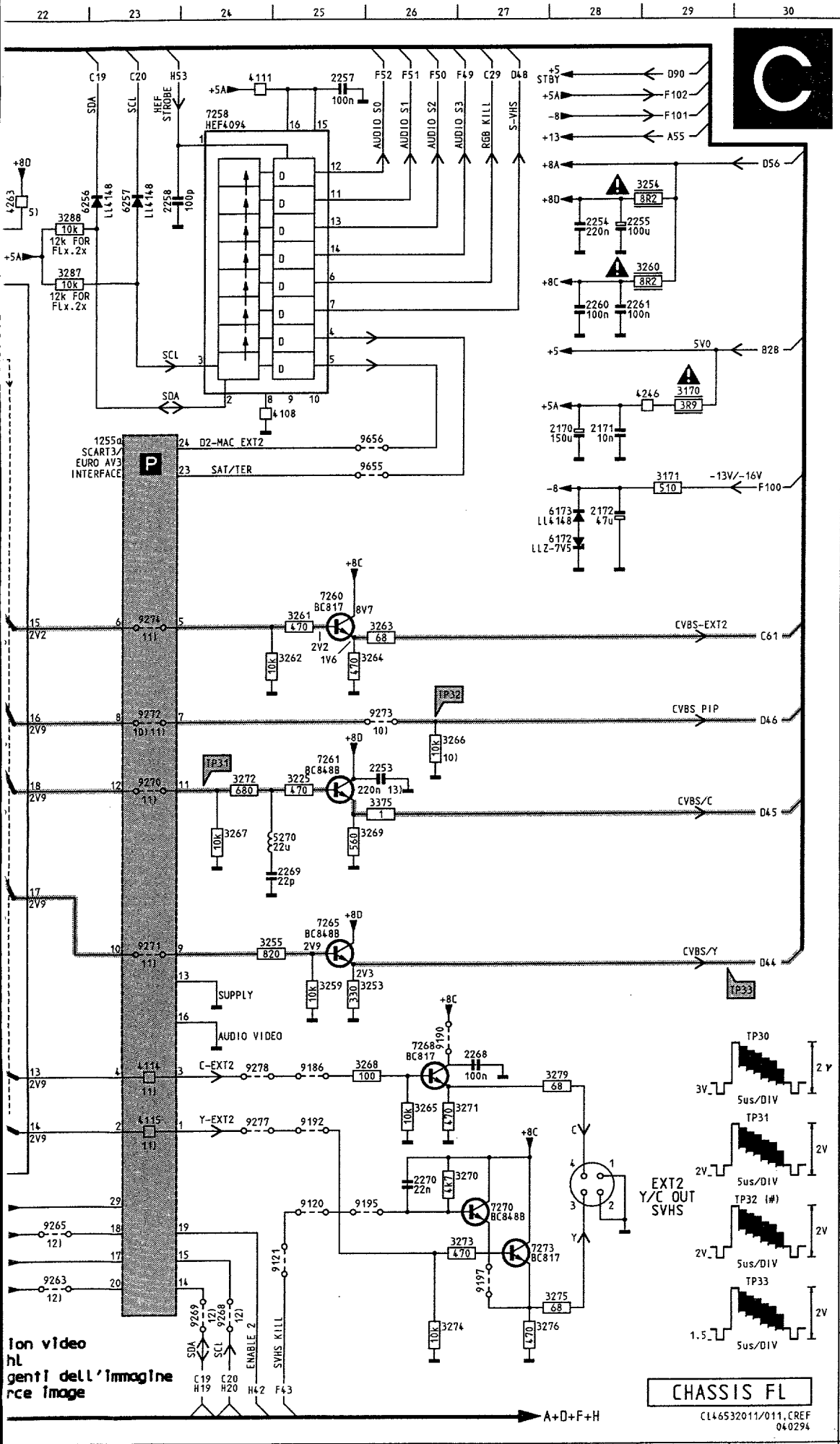
### FL4 IR LED panel



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3107 H1	3245 B1	3602 C1	4306 C3	7183 E3	9167 G1	9400 F4
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3116 C3	3255 F3	3615 E1	4334 F5	7260 H4	9176 G2	9413 G5
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3126 B2	3266 F3	3630 D2	4378 C3	7333 E4	9188 G2	9441 F5
3127 B2	3267 F3	3632 H4	4380 D4	7335 D3	9189 C4	9444 F5
3128 A5	3268 H2	3634 D2	4386 D5	7336 D4	9190 G2	9448 D3
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3133 C1	3273 H3	3644 A2	4454 E4	7364 D4	9197 G2	9455 E5
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3136 B4	3276 H3	3651 E2	4477 F6	7390 G5	9202 G3	9458 F5
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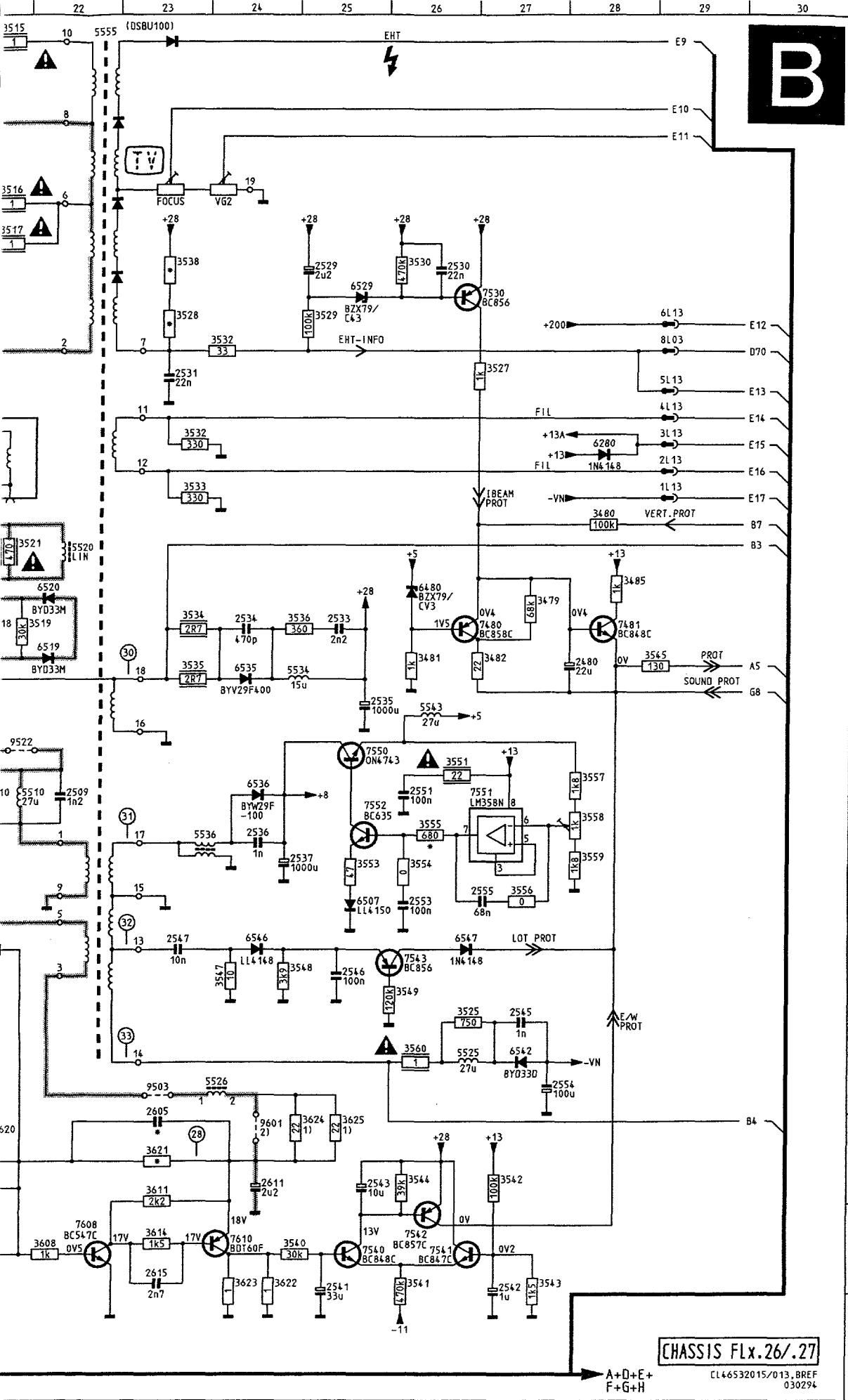
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3424	G 8	3618	N19	46707	L17
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3426	E 4	3620	M21	46743	C 4
3427	C 9	3621	M23	46750	O21
3428	H17	3622	N24	46750	I23
3429	G14	3623	N24	46750	E15
3430	G11	3624	M25	46752	H21
3431	D14	3625	M25	46758	G16
3437	G10	3626	M15	46751	G16
3438	G11	3627	H 5	46760	M24
3439	E 4	3628	H 4		
3440	I14	3629	M16		
3441	E 5	3630	L15		
3442	E 5	3631	M16		
3443	H13	3632	I 9		
3444	D 4	3633	M15		
3445	D 3	3634	H 5		
3446	C 4	3650	L15		
3450	K 5	3651	J15		
3451	K 5	3652	K18		
3452	L10	3653	K15		
3455	N12	3654	J16		
3456	L12	3655	J16		
3457	L12	3656	I16		

CHASSIS FLX.26/.27

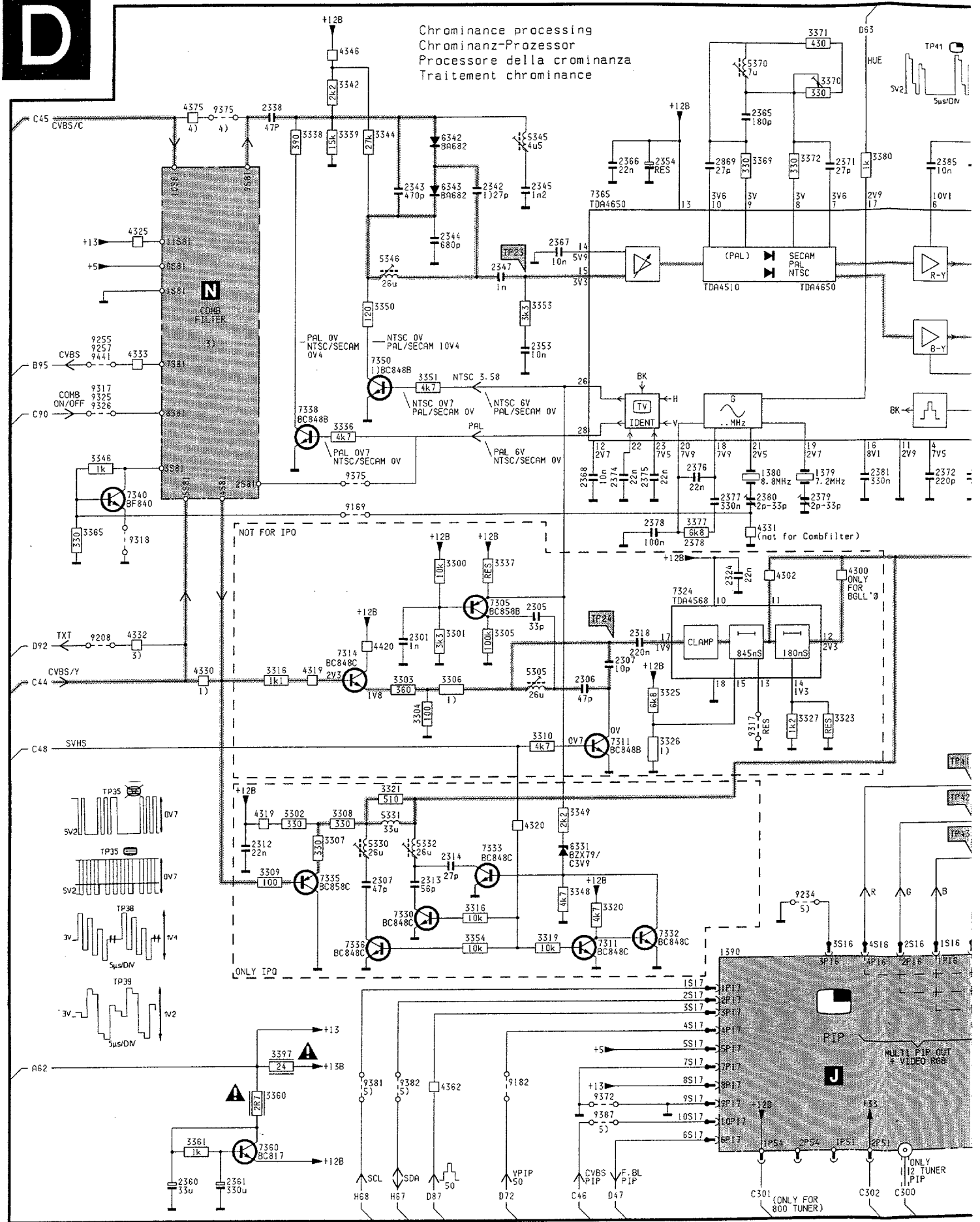
CL46532015/013, BREF 030294

A+D+E+ F+G+H



D

Chrominance processing  
Chrominanz-Prozessor  
Traitement chrominance



NOT FOR IPO

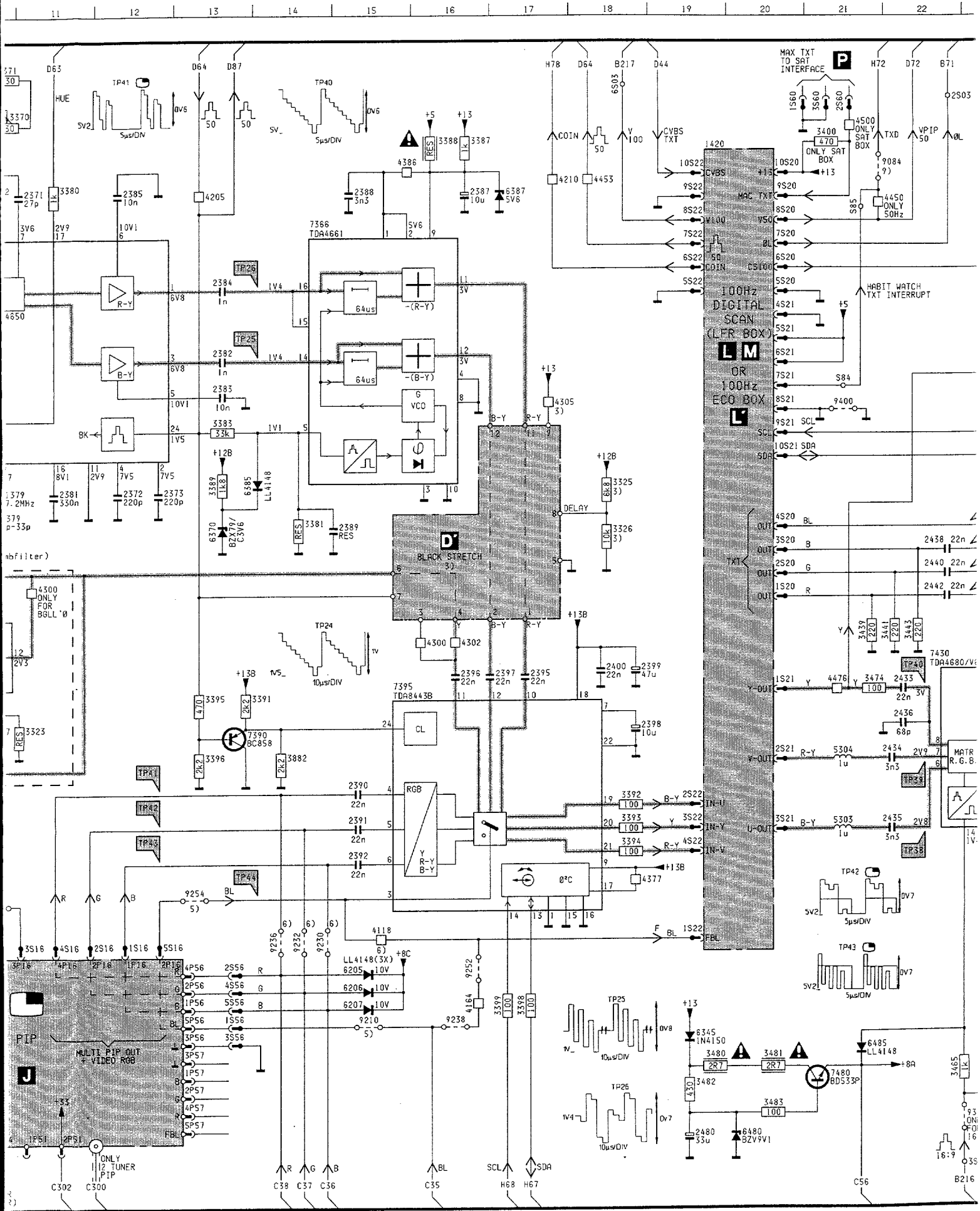
ONLY IPO

PIP  
MULTI PIP OUT  
VIDEO RGB

ONLY TUNER PIP

C301 (ONLY FOR 800 TUNER)

C302 C300

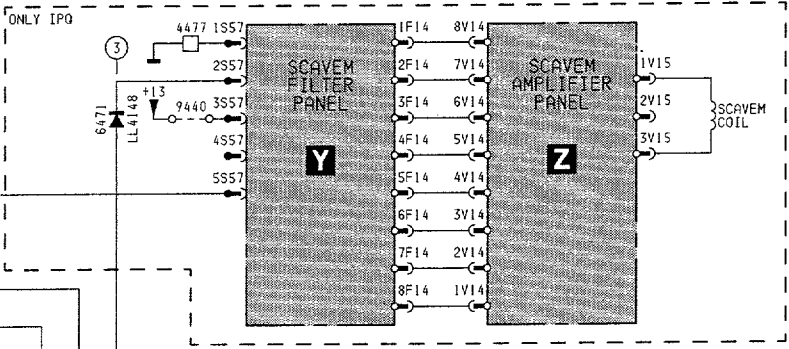
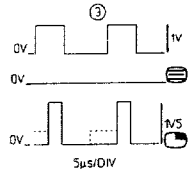


FLx.1x = not IPQ - (crystal clear)  
 FLx.2x = IPQ - (crystal clear)

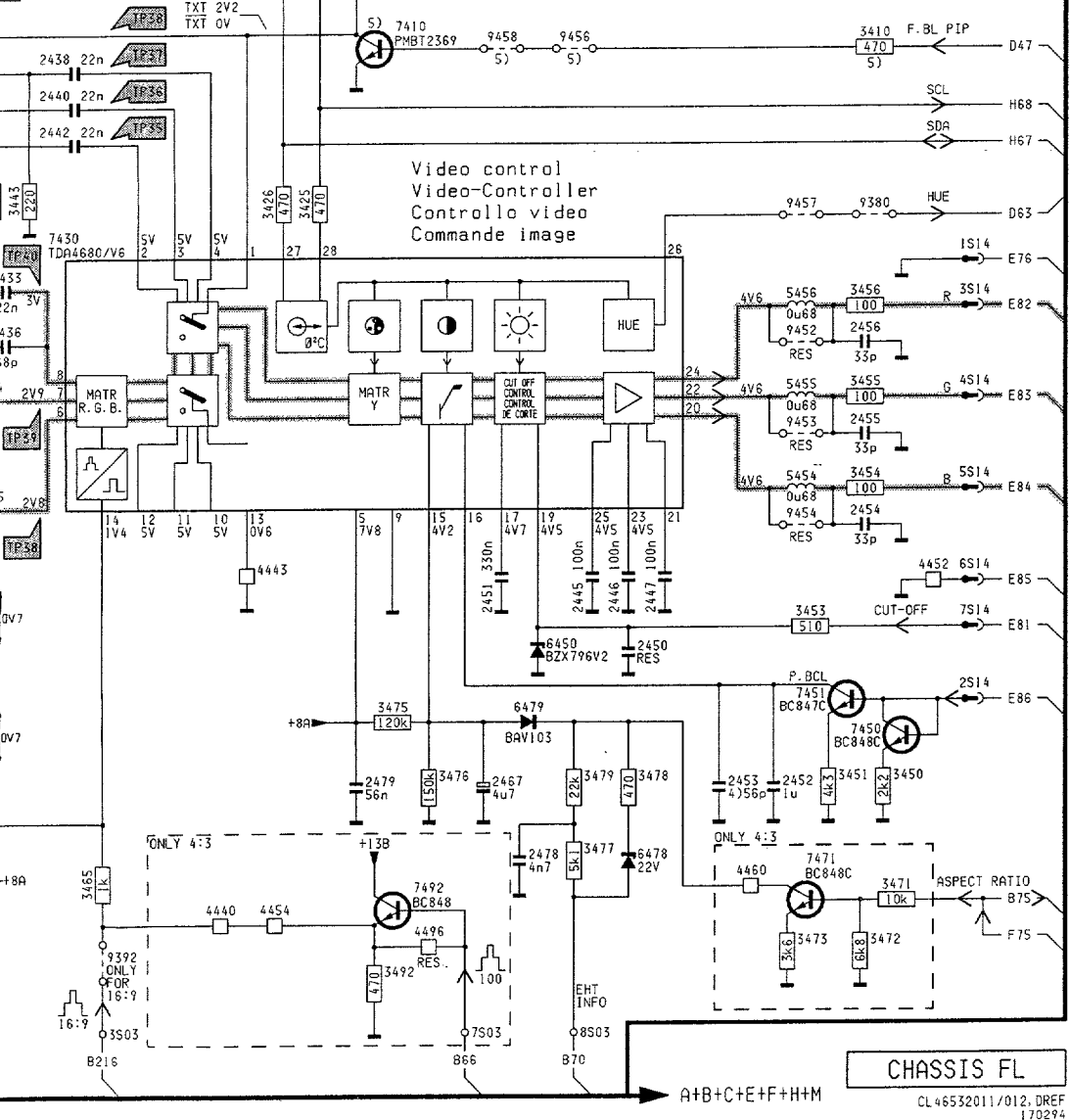
IPQ: Combfilter **N**  
 Black Stretch **D'**  
 Scavem **Y Z**

FL X.17		FL X.16	
100Hz ECO	100Hz ECO	100Hz LFR	100Hz LFR
BGLM	LL'0	BGLM	LL'0
3306	220	240	360
3326	---	10k	3k3

- 3) ONLY IPQ
- 4) NOT FOR IPQ
- 5) ONLY PIP
- 6) NOT PIP



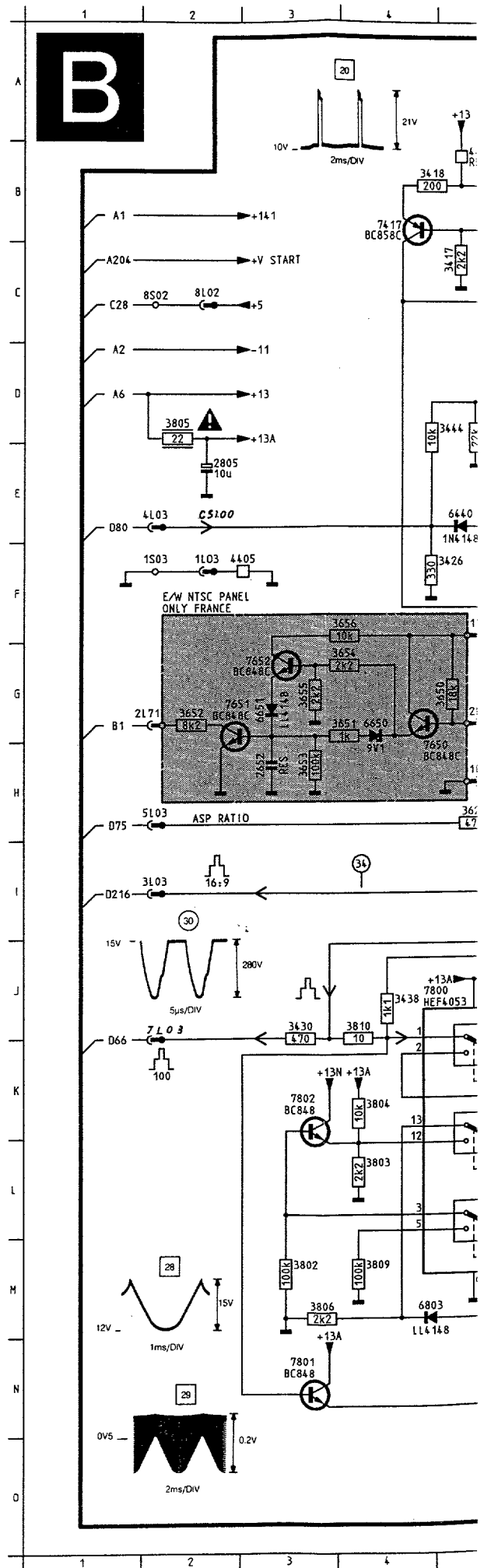
Video control  
 Video-Controller  
 Controllo video  
 Commande image



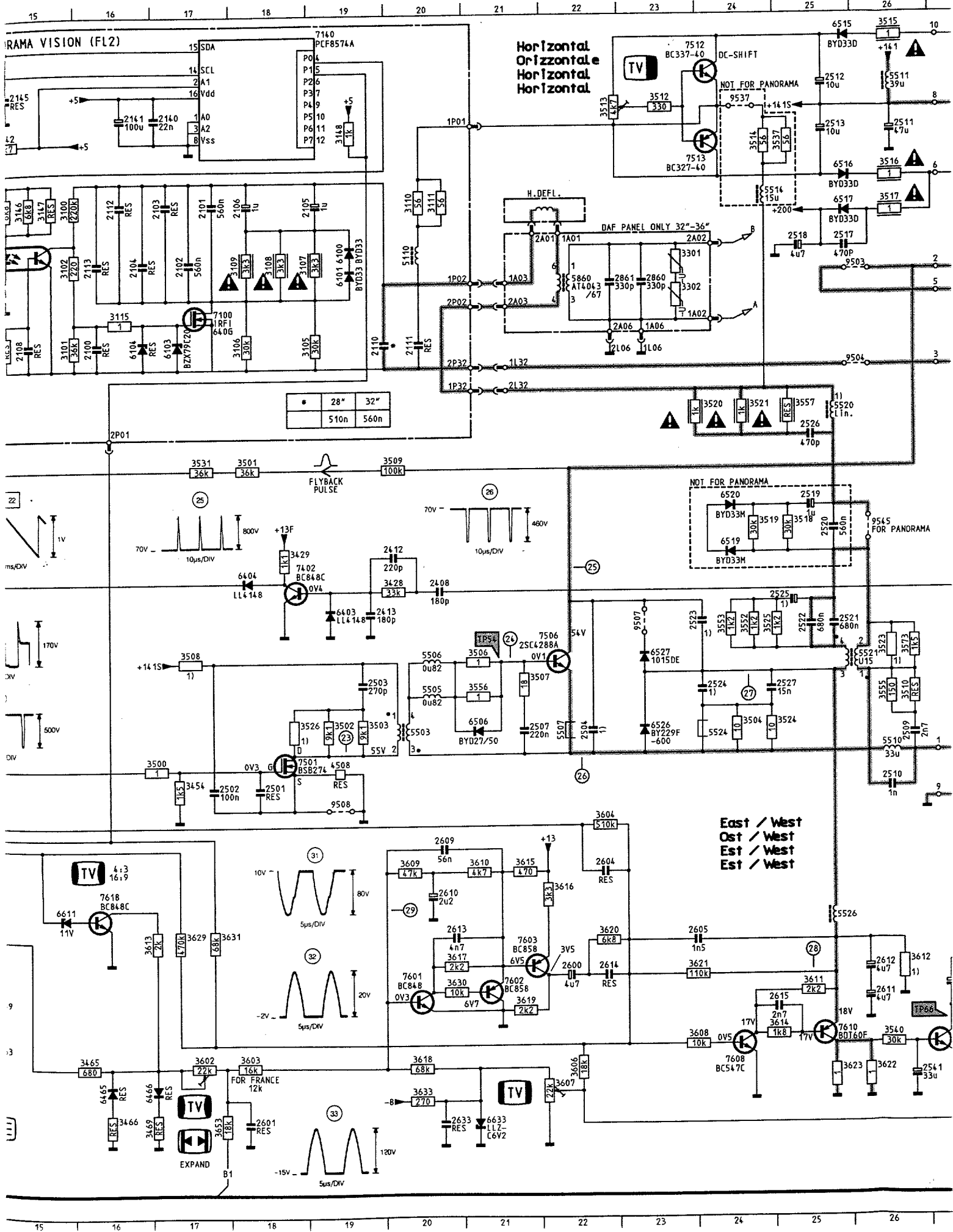
1379	F10	3370	B10	7332	L 8
1380	F10	3371	A10	7333	K 6
1390	L 9	3372	B10	7335	K 4
1420	B19	3377	G 9	7356	L 5
2301	H 5	3380	B11	7358	F 4
2305	H 7	3381	G14	7340	G 2
2306	I 8	3383	E13	7350	E 5
2307	I 8	3387	B16	7360	N 4
2307	K 5	3388	B16	7365	C 8
2312	K 3	3389	F13	7366	C14
2313	K 6	3391	I13	7390	I13
2314	K 6	3392	J18	7395	I15
2318	H 8	3393	J18	7410	G25
2324	H 9	3394	K18	7430	H22
2338	B 4	3395	I13	7450	L29
2342	C 6	3396	J13	7451	L28
2343	C 6	3397	M 4	7471	H28
2344	C 6	3398	M17	7480	N21
2345	C 7	3399	M17	7492	N25
2347	D 7	3400	B21	9084	B21
2353	E 7	3410	G29	9169	G 5
2354	C 8	3425	H24	9182	N 7
2360	O 3	3426	H24	9208	H 2
2361	O 3	3439	H21	9210	M15
2365	B10	3441	H22	9230	L14
2366	C 8	3443	H22	9232	L14
2367	D 7	3450	M29	9234	K10
2368	F 8	3451	M29	9236	L14
2371	C11	3453	K28	9238	M16
2372	F12	3454	J29	9252	L16
2373	F12	3455	J29	9254	K13
2375	F 8	3456	I29	9255	E 2
2376	F 9	3465	N22	9317	E 2
2377	G 9	3471	N29	9317	I10
2378	G 8	3472	N29	9318	G 2
2378	G 9	3473	N28	9372	N 8
2379	G10	3474	I21	9375	B 3
2380	G10	3475	L25	9375	F 5
2381	F11	3476	M25	9380	H29
2382	E13	3477	M26	9381	N 5
2383	E13	3478	M27	9382	N 5
2384	D13	3479	M26	9387	N 8
2385	C12	3480	M19	9392	N23
2387	C16	3481	M20	9400	E21
2388	C15	3482	N19	9440	D25
2389	G15	3483	N20	9441	B23
2390	J15	3492	N25	9452	I28
2391	J15	3882	J14	9453	J28
2392	K15	4118	L15	9454	K28
2395	I17	4164	M16	9456	G26
2396	I16	4205	C13	9457	H28
2397	I17	4210	B17	9458	G26
2398	I18	4300	H11		
2399	I18	4300	H16		
2400	I18	4302	H10		
2433	I22	4302	H16		
2434	J22	4305	E17		
2435	J22	4319	I 4		
2436	I22	4319	J 4		
2438	G22	4320	K 7		
2440	G22	4325	C 2		
2442	H22	4330	I 3		
2445	K26	4331	G10		
2446	K27	4332	H 2		
2447	K27	4333	E 2		
2450	L27	4346	A 5		
2451	K26	4362	N 6		
2452	M28	4375	B 3		
2453	M28	4377	K18		
2454	K29	4386	B15		
2455	J29	4420	H 5		
2456	I29	4440	N24		
2467	M26	4443	K24		
2478	M26	4450	C22		
2479	M25	4452	K29		
2480	N19	4453	B18		
2869	C 9	4454	N24		
3300	G 6	4460	N28		
3301	H 6	4476	I21		
3302	J 4	4477	D25		
3303	I 5	4496	N25		
3304	I 6	4500	B21		
3305	H 6	5303	K21		
3306	I 6	5304	J21		
3307	K 4	5305	I 7		
3308	J 5	5330	K 5		
3309	K 4	5331	J 5		
3310	I 7	5332	K 6		
3316	L 4	5345	B 7		
3316	L 6	5346	D 5		
3319	L 7	5370	A10		
3320	K 8	5454	J28		
3321	J 5	5455	J28		
3323	I11	5458	I28		
3325	F18	6205	L15		
3325	I 8	6206	M15		
3326	G18	6207	M15		
3326	I 8	6331	K 7		
3327	I10	6342	B 6		
3336	F 5	6343	C 6		
3337	G 6	6345	M19		
3338	B 4	6370	G13		
3339	B 5	6385	F13		
3342	B 5	6387	C17		
3344	B 5	6450	L26		
3346	F 2	6471	D25		
3348	K 7	6478	M27		
3349	J 7	6479	L26		
3350	D 5	6480	N20		
3351	E 6	6485	M21		
3353	D 7	7305	H 6		
3354	L 6	7311	J 8		
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3361	N 3	7314	H 5		
3365	G 1	7324	H 9		
3369	B10	7330	L 5		

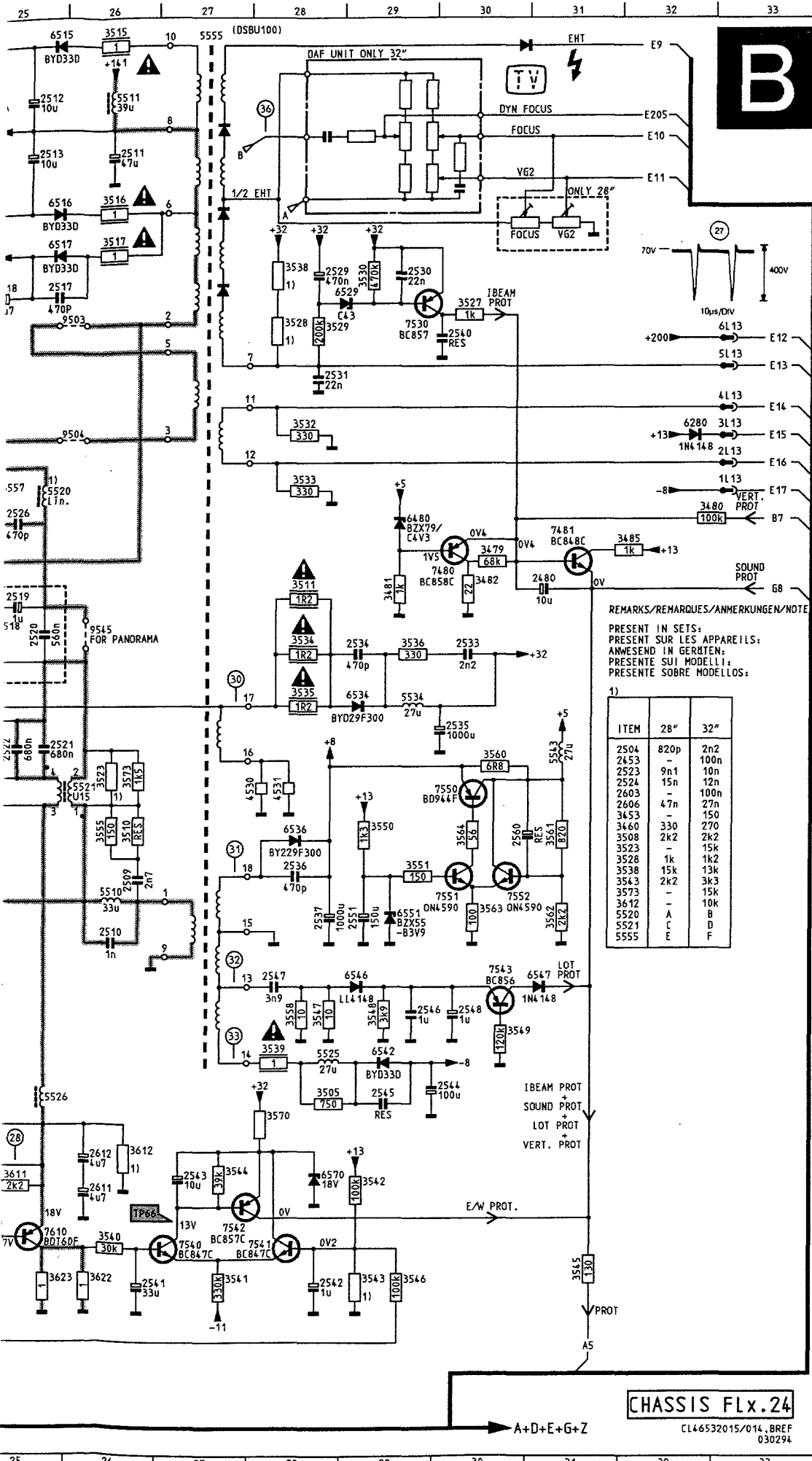
# Synchro

## B









2100	D16	3110	C20	3538	C28	6466	N16
2101	C17	3111	C20	3539	K28	6480	F29
2102	C17	3115	D16	3540	M26	6506	A21
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
2112	C16	3145	C15	3548	K29	6529	C29
2113	C16	3146	C15	3549	K30	6534	H29
2120	B13	3147	D15	3550	I29	6536	I28
2140	B17	3148	B19	3551	I29	6542	K29
2141	B16	3301	C23	3552	H24	6546	K29
2145	A15	3302	D23	3553	H24	6547	K31
2401	G 7	3402	D 8	3555	I26	6551	J29
2402	D 7	3403	D 9	3556	I21	6570	M28
2403	D 9	3404	D 6	3557	E25	6611	L15
2404	D 7	3405	D10	3558	K28	6633	N21
2405	D 7	3406	D10	3560	H30	6650	G 4
2406	D10	3407	F14	3561	I31	6651	G 3
2407	L 8	3408	D14	3562	J31	6801	L 6
2408	H20	3409	H 8	3563	J30	6802	N 5
2409	G12	3410	I 8	3564	I30	6803	M 4
2410	I 9	3411	H 9	3570	L28	6804	N 6
2411	H 9	3412	J 7	3573	H26	7100	D17
2412	G20	3413	G10	3601	H10	7140	A19
2413	H19	3414	G 7	3602	N17	7141	D15
2415	H11	3415	F 6	3603	N18	7142	C14
2416	D11	3416	J 7	3604	K22	7400	E 7
2417	D11	3417	C 5	3605	I11	7402	G18
2418	E13	3418	B 4	3606	N22	7410	J 8
2419	E13	3419	D14	3607	N22	7417	B 4
2450	M 8	3420	I 7	3608	M23	7443	D 5
2451	M 8	3421	D12	3609	K20	7444	D 6
2452	M11	3422	H 7	3610	K21	7450	L 9
2453	L12	3424	G 9	3611	M25	7451	L 8
2455	K10	3426	F 5	3612	L26	7469	O13
2456	L14	3428	H20	3613	L16	7480	F30
2457	M13	3429	G18	3614	M25	7481	F31
2458	O11	3430	J 3	3615	K21	7501	J18
2459	M11	3438	J 4	3616	K22	7506	H22
2460	O12	3439	H 8	3617	L20	7512	A24
2461	M11	3440	F 5	3618	H20	7513	B24
2480	F31	3441	F 6	3619	M21	7530	D29
2501	J18	3442	F 6	3620	L22	7540	M27
2502	J17	3443	D 5	3621	M23	7541	M28
2503	I19	3444	D 5	3622	N26	7542	M27
2504	I22	3448	D 5	3623	N25	7543	K30
2507	I21	3450	K 8	3625	J 8	7550	I30
2509	J26	3451	K 9	3627	H 6	7551	J30
2510	J26	3452	L11	3628	H 5	7552	J30
2511	B26	3453	L12	3629	L17	7601	M20
2512	A25	3454	J17	3630	M20	7602	M21
2513	B25	3455	N13	3631	L17	7603	L21
2517	C25	3456	L13	3632	H10	7608	N24
2518	C25	3457	M13	3633	N20	7610	M25
2519	G25	3458	M14	3634	H 5	7616	H 6
2520	G25	3459	M14	3650	G 5	7618	L16
2521	H25	3460	M11	3651	G 4	7650	G 4
2522	H25	3461	M13	3652	G 2	7651	G 3
2523	H24	3462	M14	3653	H 3	7652	G 3
2524	I24	3463	M14	3653	O17	7800	J 4
2525	H25	3464	M13	3654	G 4	7801	N 3
2526	F25	3465	N16	3655	G 3	7802	K 3
2527	I25	3466	N16	3656	F 4	9100	Ø22
2529	C28	3467	O12	3800	M 7	9101	A13
2530	C29	3468	N13	3801	L 7	9102	A14
2531	D28	3469	O16	3802	M 3	9103	B12
2533	G30	3470	N14	3803	L 4	9503	D26
2535	G29	3471	M13	3804	K 4	9504	E26
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	H 6	9652	B 6
2543	M27	3485	F32	4400	K10		
2544	L30	3500	J17	4401	B 5		
2545	L29	3501	F18	4405	F 3		
2546	K29	3502	I19	4508	J19		
2547	K28	3503	I19	4530	I28		
2548	K30	3504	I24	4531	I28		
2551	J29	3505	L28	5110	C20		
2560	I30	3506	H21	5503	I20		
2600	M22	3507	I21	5505	I20		
2601	N18	3508	H17	5506	I20		
2603	I10	3509	F20	5507	I22		
2604	K22	3510	I26	5510	J26		
2605	L23	3511	F28	5511	A26		
2606	I11	3512	A23	5514	C24		
2607	H10	3513	B22	5520	E25		
2609	K20	3514	B24	5521	I26		
2610	L20	3515	A24	5524	I24		
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		
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	O23	3527	C30	6128	B14		
2861	O22	3528	C28	6280	E32		
3100	C15	3529	O28	6403	H19		
3101	O15	3530	C29	6404	G18		
3102	C15	3531	F17	6417	B 5		
3104	O15	3532	E28	6422	H 7		
3105	O19	3533	E28	6440	E 5		
3106	D18	3534	G28	6441	E 5		
3107	C19	3535	H28	6451	N11		
3108	C18	3536	G29	6452	M12		
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REMARKS/REMARQUES/ANMERKUNGEN/NOTE

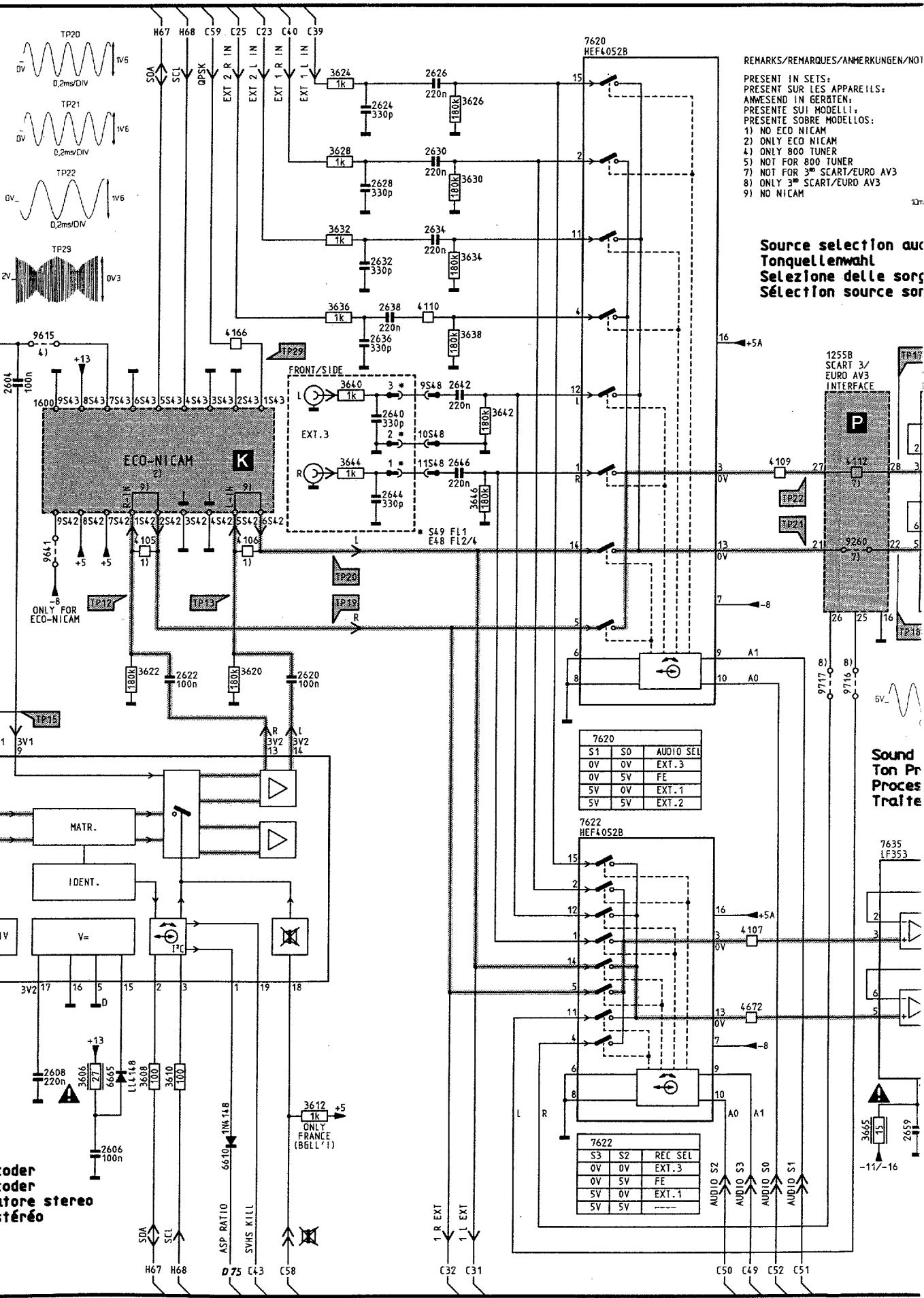
PRESENT IN SETS:  
 PRESENT SUR LES APPAREILS:  
 ANWESEND IN GERÄTEN:  
 PRESENTE SUJ MODELLI I:  
 PRESENTE SOBRE MODELOS:

ITEM	28"	32"
2504	820p	2n2
2453	-	100n
2523	9n1	10n
2524	15n	12n
2603	-	100n
2606	47n	27n
3453	-	150
3508	330	270
3523	-	15k
3528	1k	1k2
3538	15k	13k
3543	2k2	3k3
3573	-	15k
3612	-	10k
5520	A	C
5521	A	B
5555	C	D

CHASSIS FLx.24

CL46532015/014, BREF 030294

**F**



REMARKS/REMARQUES/ANMERKUNGEN/NOT  
 PRESENT IN SETS:  
 PRESENT SUR LES APPAREILS:  
 ANWESEND IN GERÄTEN:  
 PRESENTE SUI MODELLI:  
 PRESENTE SOBRE MODELOS:  
 1) NO ECO NICAM  
 2) ONLY ECO NICAM  
 4) ONLY 800 TUNER  
 5) NOT FOR 800 TUNER  
 7) NOT FOR 3RD SCART/EURO AV3  
 8) ONLY 3RD SCART/EURO AV3  
 9) NO NICAM

Source selection aux  
 Tonquellenwahl  
 Selezione delle sorg  
 Sélection source sur

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

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

Stereo decoder  
 Stereo decoder  
 Decodificatore stereo  
 Décodeur stéréo

Sound  
 Ton Pr  
 Proces  
 Traite



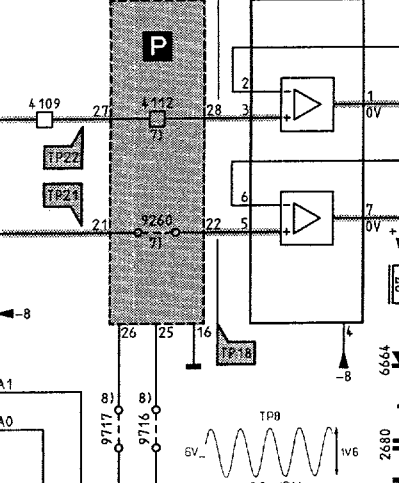


REMARKS/REMARKES/ANMERKUNGEN/NOTE

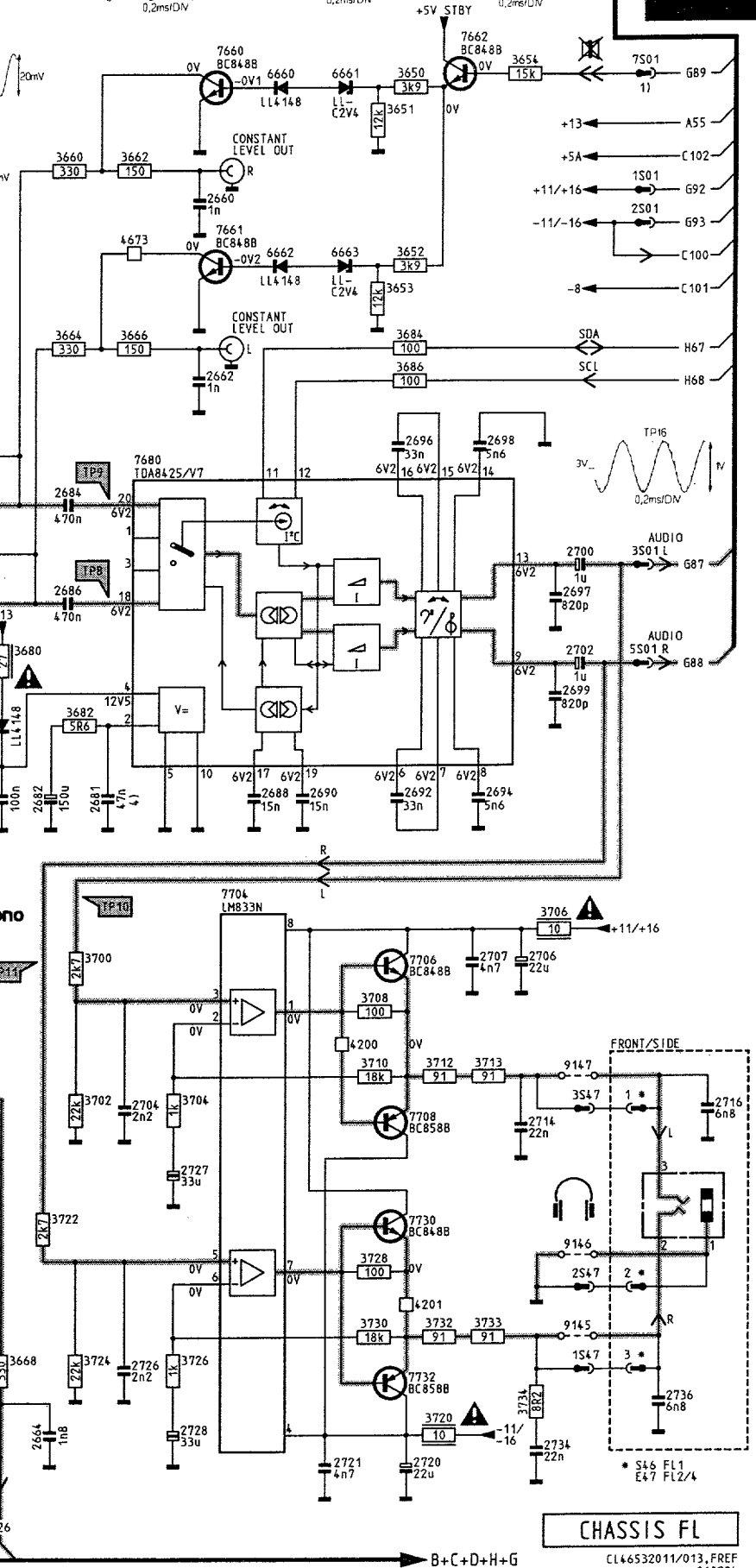
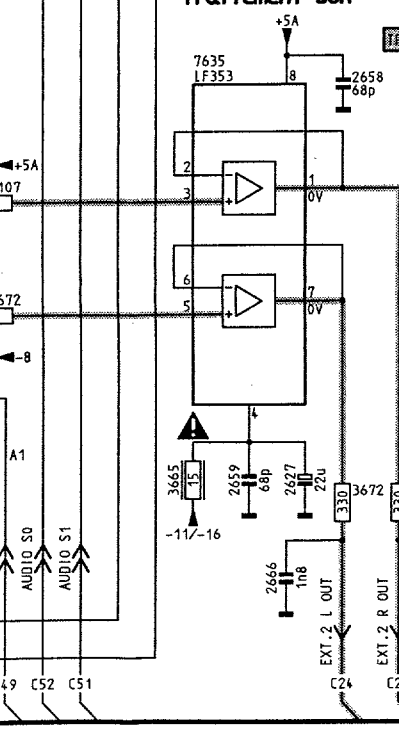
- PRESENT IN SETS:
- PRESENT SUR LES APPAREILS:
- PRESENT IN GERÄTEN:
- PRESENT SUI MODELLI:
- PRESENT SOBRE MODELLOS:
- NO ECO NICAM
- ONLY ECO NICAM
- ONLY 800 TUNER
- NOT FOR 800 TUNER
- NOT FOR 3<sup>rd</sup> SCART/EURO AV3
- ONLY 3<sup>rd</sup> SCART/EURO AV3
- NO NICAM

**Source selection audio**  
**Tonquellenwahl**  
**Selezione delle sorgenti sonore**  
**Sélection source son**

1255B SCART 3/  
 EURO AV3  
 INTERFACE

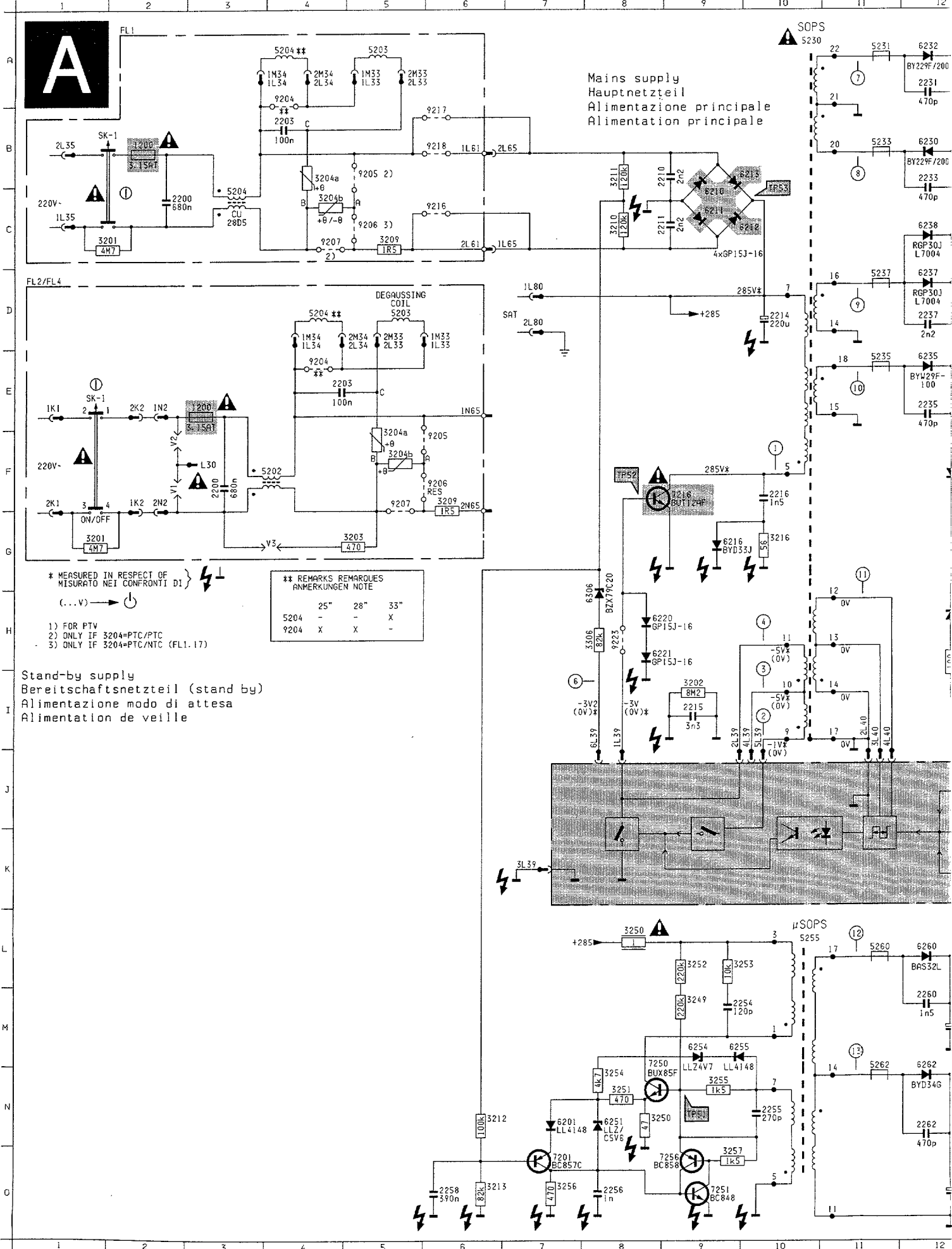


**Sound processing**  
**Ton Prozessor**  
**Processore del suono**  
**Traitement son**



1255	E11	4.110	D 7
1600	E 2	4.112	F12
1602	M 1	4.166	D 5
2600	G 2	4.200	K17
2602	H 1	4.201	M17
2604	E 2	4.672	L11
2606	M 3	4.673	C15
2608	M 2	6.610	N 5
2620	H 5	6.660	B16
2622	H 4	6.661	B17
2624	B 6	6.662	D16
2626	A 7	6.663	D17
2627	M13	6.664	H14
2628	C 6	6.665	M 3
2630	B 7	7.600	I 1
2632	D 6	7.620	A 9
2634	C 7	7.622	J 9
2636	D 6	7.630	E12
2638	D 6	7.635	J12
2640	E 6	7.660	B16
2642	E 7	7.661	C16
2644	F 6	7.662	B18
2646	F 7	7.680	E15
2658	J13	7704	I16
2659	M12	7706	J17
2660	C16	7708	K17
2662	E16	7730	L17
2664	M14	7732	M17
2666	M13	9145	M19
2680	H14	9146	M19
2681	H15	9147	K19
2682	H14	9260	G12
2684	F14	9615	D 2
2686	G14	9641	G 2
2688	H16	9716	H12
2690	H16	9717	H11
2692	H17		
2694	H18		
2696	E17		
2697	G19		
2698	E18		
2699	H19		
2700	F19		
2702	G19		
2704	K15		
2706	J18		
2707	J18		
2714	K18		
2716	K20		
2720	O17		
2721	O17		
2726	N15		
2727	L15		
2728	N15		
2734	M19		
2736	N20		
3600	E 2		
3602	F 1		
3603	H 1		
3604	G 1		
3605	H 1		
3606	M 3		
3608	M 4		
3610	M 4		
3612	H 6		
3620	H 5		
3622	H 3		
3624	A 6		
3626	B 7		
3628	B 6		
3630	C 7		
3632	C 6		
3634	C 7		
3636	D 6		
3638	D 7		
3640	E 6		
3642	E 8		
3644	F 6		
3646	F 7		
3650	B17		
3651	B17		
3652	D17		
3653	D17		
3654	B18		
3660	C14		
3662	C15		
3664	D14		
3665	M12		
3666	D15		
3668	M14		
3672	M13		
3680	G14		
3682	H14		
3684	D17		
3686	E17		
3700	J14		
3702	K14		
3704	K15		
3706	J19		
3708	J17		
3710	K17		
3712	K18		
3713	K18		
3720	N18		
3722	L14		
3724	N14		
3726	N15		
3728	M17		
3730	M17		
3732	M18		
3733	M18		
3734	N18		
4.105	G 4		
4.106	G 5		
4.107	K11		
4.109	F11		

**CHASSIS FL**  
 CL46532011/013, FREF  
 010294

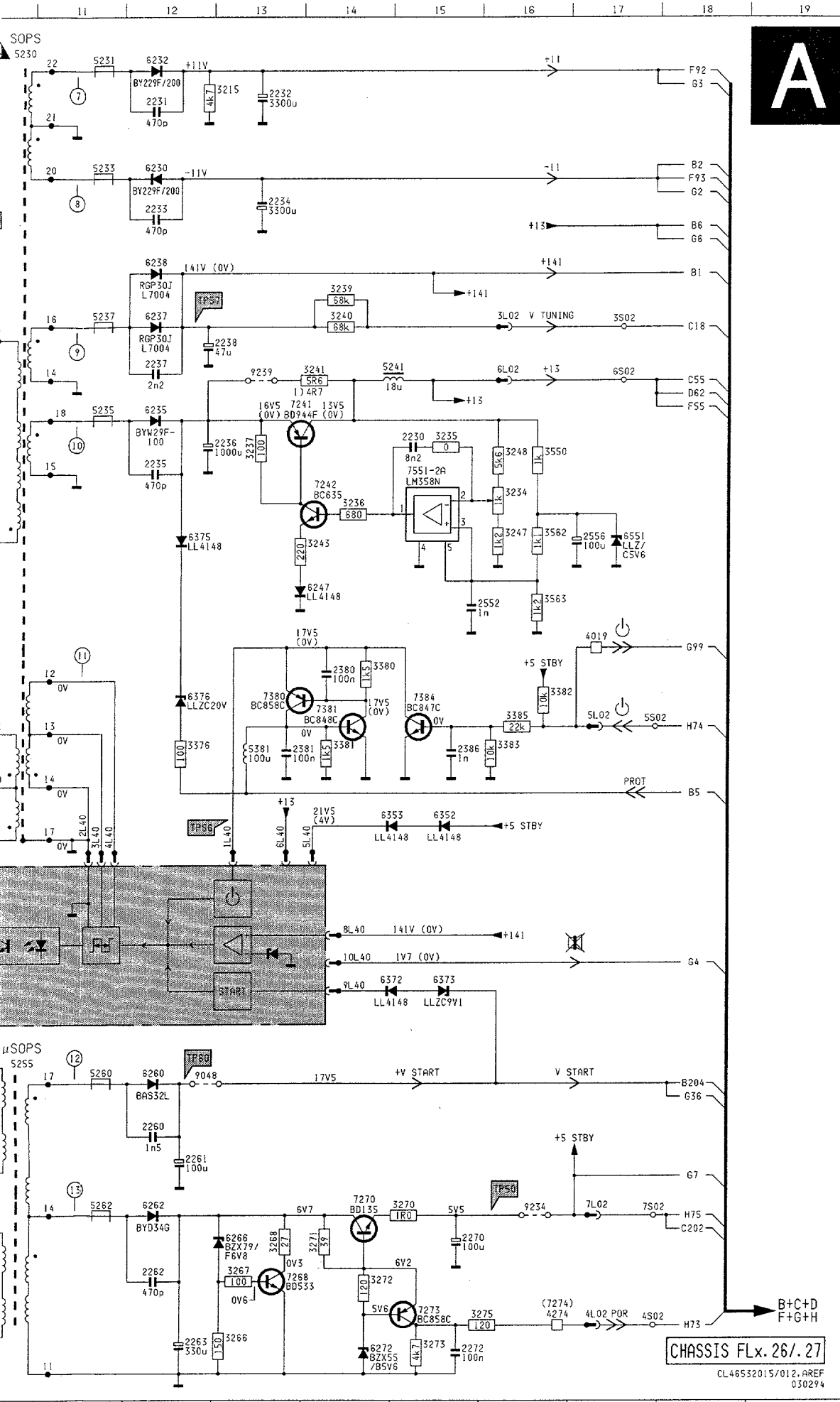


\* MEASURED IN RESPECT OF MISURATO NEI CONFRONTI DI (...V) →

** REMARKS	REMARKS	NOTE
25"	28"	33"
5204	-	X
9204	X	X

- 1) FOR PTV
- 2) ONLY IF 3204=PTC/PTC
- 3) ONLY IF 3204=PTC/NTC (FL1.17)

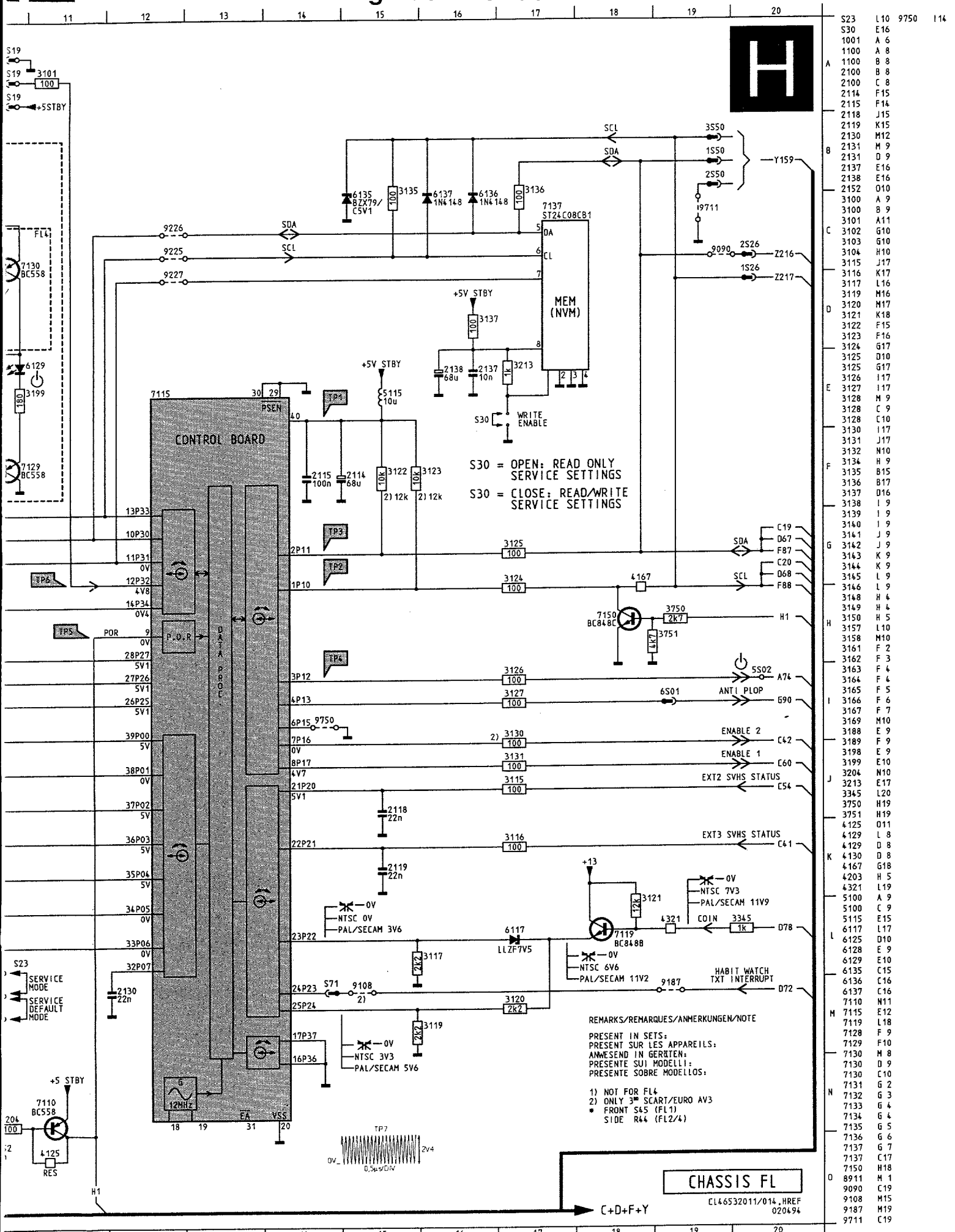
Stand-by supply  
 Bereitschaftsnetzteil (stand by)  
 Alimentazione modo di attesa  
 Alimentation de veille



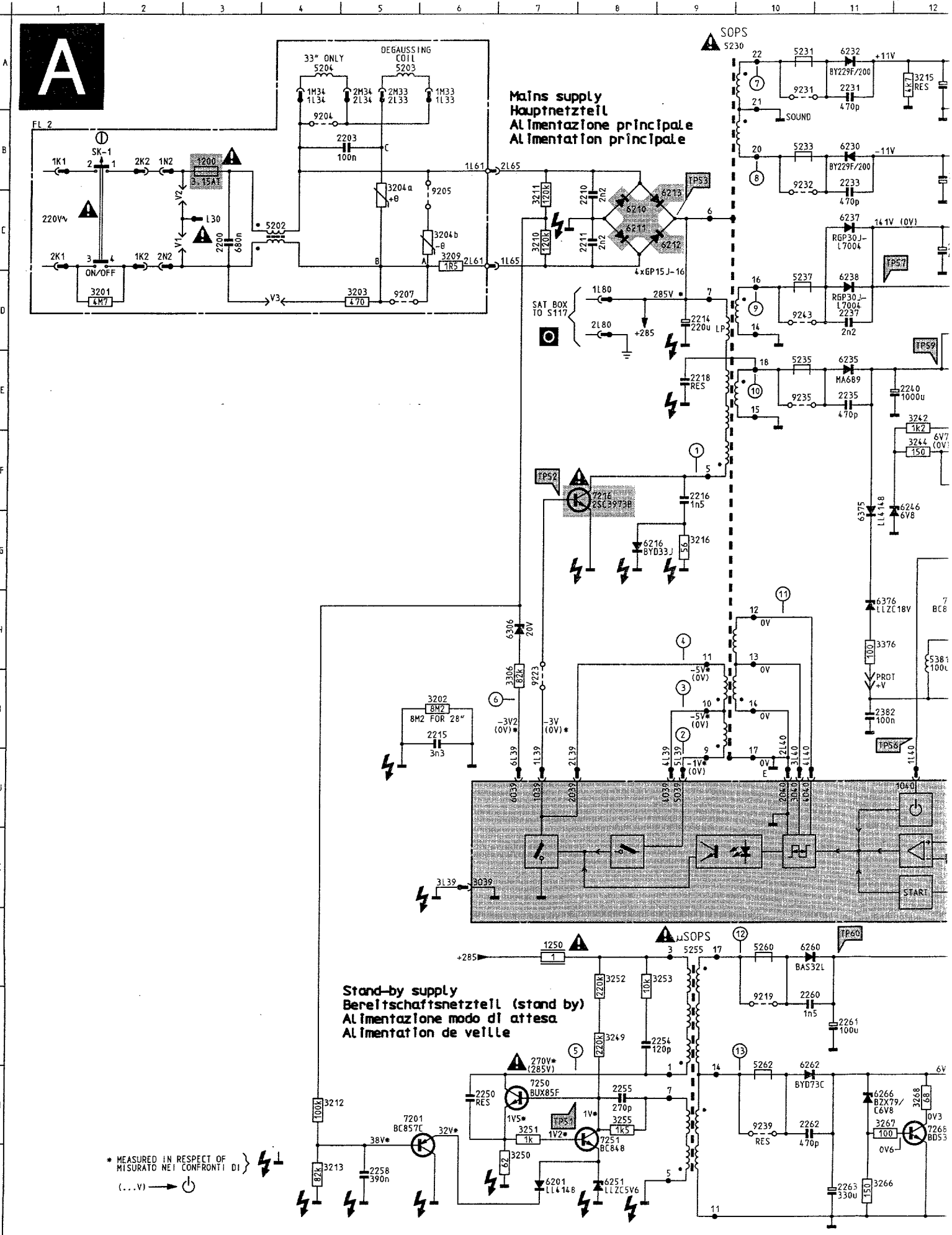
1200	B 2	6232	A12
1200	E 3	6235	E12
2200	C 2	6237	D12
2200	F 3	6238	C12
2203	B 4	6247	G14
2203	E 4	6251	N 8
2210	B 9	6254	M 9
2211	C 9	6255	M 9
2214	D10	6260	L12
2215	I 9	6262	N12
2216	F10	6266	N13
2230	E15	6272	O14
2231	A12	6306	H 8
2232	A13	6352	I15
2233	B12	6353	I14
2234	B13	6372	K14
2235	E12	6373	K15
2236	E12	6375	F12
2237	D12	6376	H12
2238	D12	6551	F17
2254	M 9	7201	O 7
2255	N10	7216	F 9
2256	O 8	7241	E13
2258	O 6	7242	F14
2260	M12	7250	N 8
2261	M12	7251	O 9
2262	N12	7256	O 9
2263	O12	7268	N13
2270	N15	7270	M14
2272	O15	7273	O15
2380	H14	7274	O16
2381	H13	7380	H13
2386	H15	7381	H14
2552	G15	7384	H15
2556	F17	7551	E15
3201	C14	9048	L12
3201	G 1	9204	A 4
3202	I 9	9204	E 4
3203	G 5	9205	B 5
3204	B 4	9205	F 6
3204	C 4	9206	C 5
3204	E 5	9206	F 6
3204	F 5	9207	C 4
3209	C 5	9207	F 5
3209	F 6	9216	C 6
3210	C 8	9217	B 6
3211	B 8	9218	B 6
3212	N 6	9223	H 8
3213	O 6	9234	N16
3215	A13	9239	D13
3216	G10		
3234	E16		
3235	E15		
3236	F14		
3237	E13		
3239	C14		
3240	D14		
3241	D14		
3245	F14		
3247	F16		
3248	E16		
3249	M 9		
3250	L 8		
3250	N 8		
3251	N 8		
3252	L 9		
3253	L 9		
3254	N 8		
3255	N 9		
3256	O 7		
3257	O 9		
3266	O13		
3267	N13		
3268	N13		
3270	N15		
3271	N14		
3272	N14		
3273	O15		
3275	O16		
3276	H 8		
3306	H 8		
3376	H12		
3380	G14		
3381	H14		
3382	H16		
3383	H16		
3385	H16		
3550	E16		
3562	F16		
3563	G16		
4274	O16		
4L02	O17		
5202	F 4		
5203	A 5		
5203	D 5		
5204	A 4		
5204	C 3		
5204	D 4		
5230	A10		
5231	A11		
5233	B11		
5235	E11		
5237	D11		
5241	D14		
5255	L10		
5260	L11		
5262	N11		
5581	H13		
6201	N 7		
6210	C 9		
6211	C 9		
6212	C 9		
6213	B 9		
6216	G 9		
6220	H 8		
6221	H 8		
6230	B12		

CHASSIS FLx.26/.27  
 CL46532015/012.AREF  
 030294





S23	L10	9750	114
S30	E16		
1001	A 6		
1100	A 8		
1100	B 8		
2100	B 8		
2100	C 8		
2114	F15		
2115	F14		
2118	J15		
2119	K15		
2130	M12		
2131	M 9		
2131	D 9		
2137	E16		
2138	E16		
2152	O10		
3100	A 9		
3100	B 9		
3101	A11		
3102	G10		
3103	G10		
3104	H10		
3115	J17		
3116	K17		
3117	L16		
3119	M16		
3120	M17		
3121	K18		
3122	F15		
3123	F16		
3124	G17		
3125	D10		
3125	G17		
3126	I17		
3127	I17		
3128	H 9		
3128	C 9		
3128	C10		
3130	I17		
3131	J17		
3132	N10		
3134	H 9		
3135	B15		
3136	B17		
3137	D16		
3138	I 9		
3139	I 9		
3140	I 9		
3141	J 9		
3142	J 9		
3143	K 9		
3144	K 9		
3145	L 9		
3146	L 9		
3148	H 4		
3149	H 4		
3150	H 5		
3157	L10		
3158	M10		
3161	F 2		
3162	F 3		
3163	F 4		
3164	F 4		
3165	F 5		
3166	F 6		
3167	F 7		
3169	M10		
3188	E 9		
3189	F 9		
3198	E 9		
3199	E10		
3204	M10		
3213	E17		
3345	L20		
3750	H19		
3751	H19		
4125	O11		
4129	L 8		
4129	D 8		
4130	D 8		
4167	G18		
4203	H 5		
4321	L19		
5100	A 9		
5100	C 9		
5115	E15		
6117	L17		
6125	D10		
6128	E 9		
6129	E10		
6135	C15		
6136	C16		
6137	C16		
7110	N11		
7115	E12		
7119	L18		
7128	F 9		
7129	F10		
7130	M 8		
7130	D 9		
7130	C10		
7131	G 2		
7132	G 3		
7133	G 4		
7134	G 4		
7135	G 5		
7136	G 6		
7137	G 7		
7137	C17		
7150	H18		
8911	M 1		
9090	C19		
9108	M15		
9187	M19		
9711	C19		



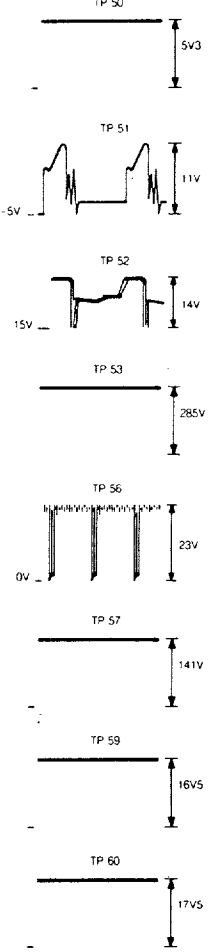
\* MEASURED IN RESPECT OF MISURATO NEL CONFRONTO DI (...V) →

# 14 FLx.24 (16:9)



1)

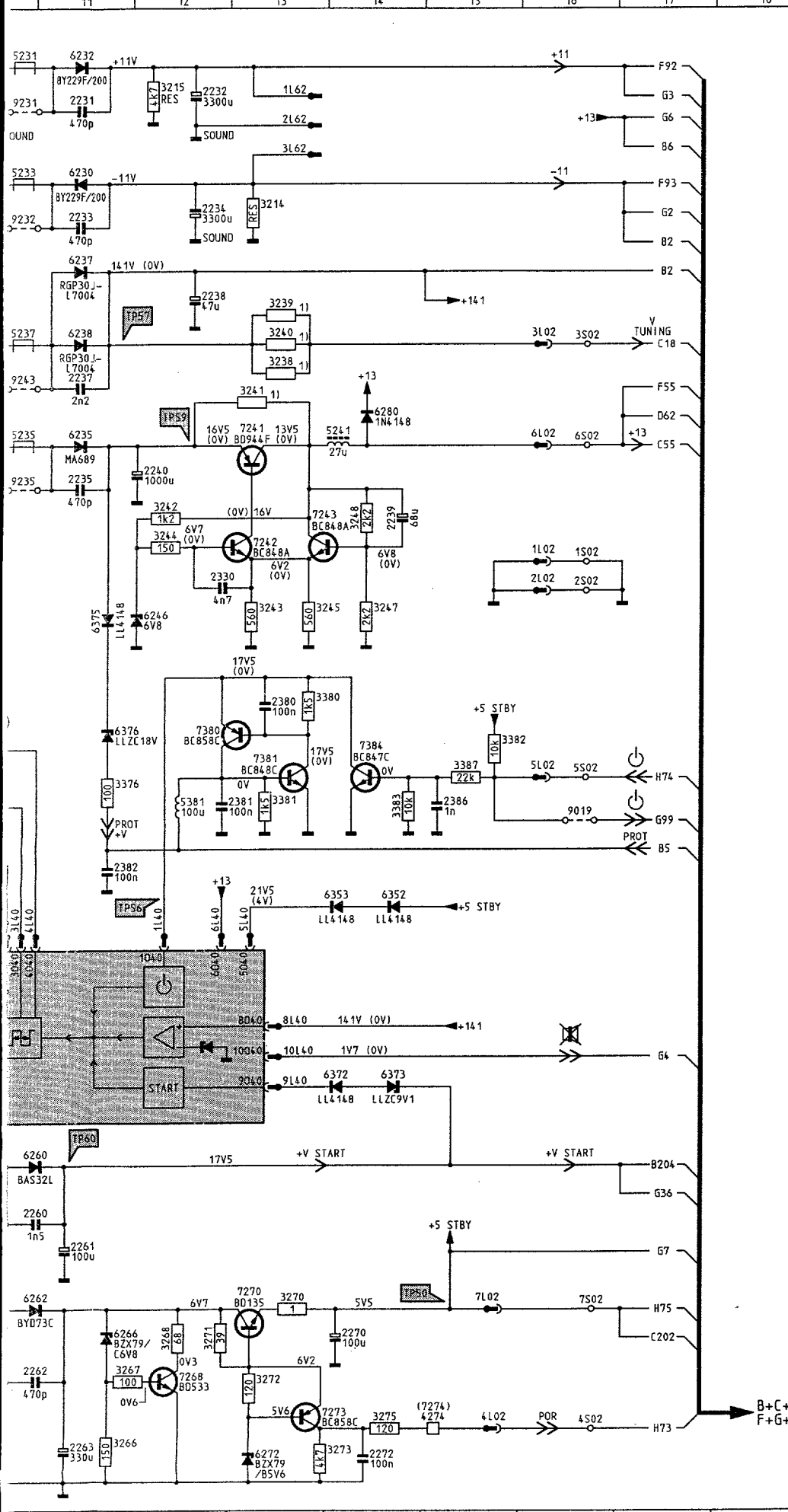
	Z TUNER PIP	NON PIP	PIP
3238	100k	300k	300k
3239	100k	300k	300k
3240	100k	300k	300k
3241	2R2	4R7	2R7

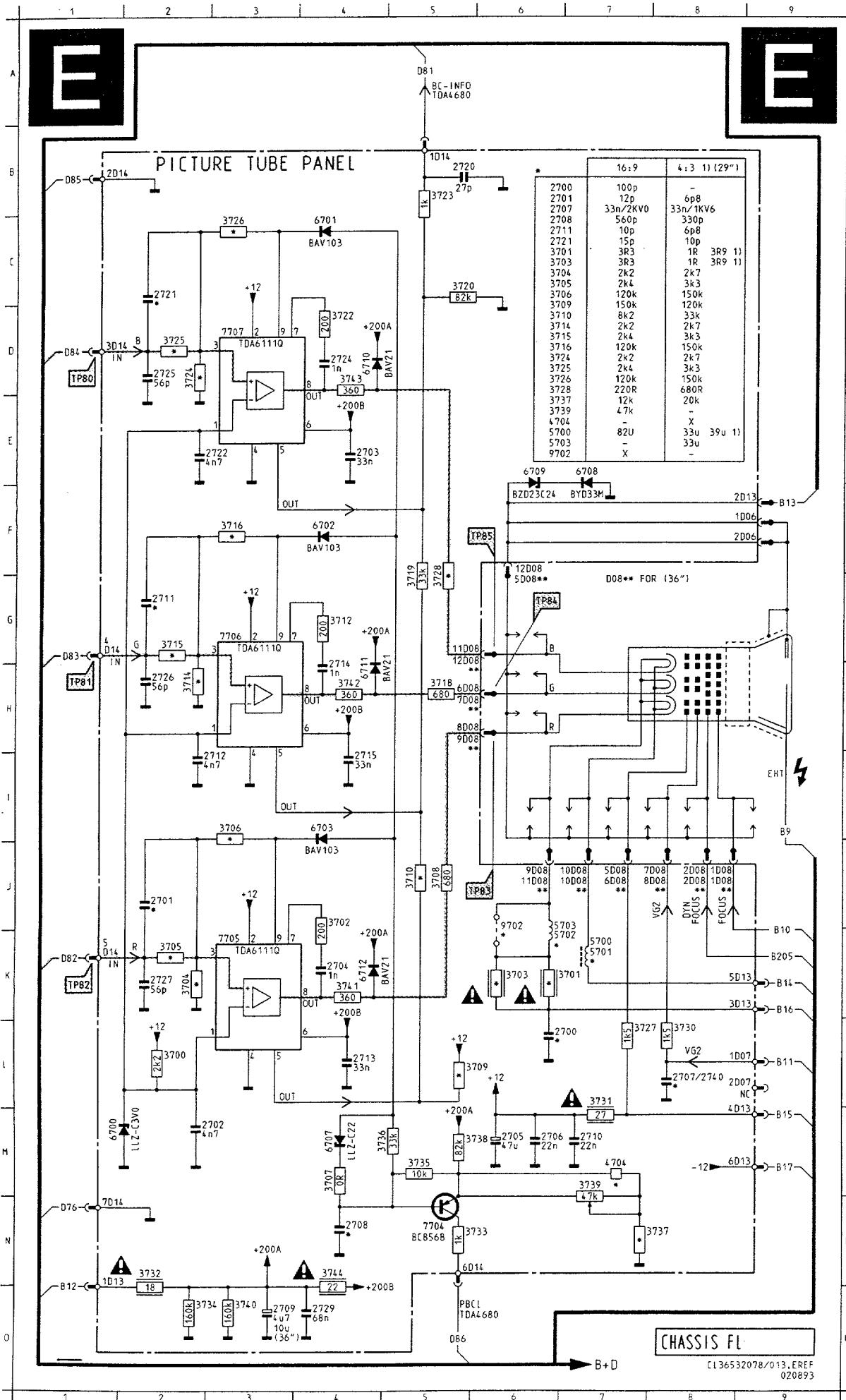


CHASSIS FLx.24

CL46532015/011, AREF 030294

- (727 015 6262 N11
- 1200 B 3 6266 N11
- 1200 B 3 6272 013
- 1250 L 7 6280 014
- 2200 C 3 6306 H 7
- 2200 C 3 6352 114
- 2203 B 5 6353 114
- 2210 C 8 6372 K14
- 2210 C 8 6373 K14
- 2211 C 8 6375 G11
- 2214 D 9 6376 H11
- 2215 I 6 7201 N 6
- 2216 F 9 7216 F 8
- 2218 E 9 7241 E13
- 2231 A11 7242 F13
- 2232 A12 7243 F13
- 2233 B11 7250 N 7
- 2234 B12 7251 N 8
- 2235 E11 7268 N12
- 2237 D11 7270 M13
- 2238 C12 7273 013
- 2239 E14 7380 H12
- 2240 E12 7381 H13
- 2250 N 6 7384 H14
- 2254 M 9 9019 116
- 2255 N 8 9204 B 4
- 2258 O 5 9205 C 6
- 2260 M11 9205 C 6
- 2261 M11 9207 C 5
- 2262 N11 9207 D 5
- 2263 O11 9218 B 5
- 2270 N14 9219 M10
- 2272 O14 9223 1 7
- 2330 F12 9231 A 10
- 2380 G13 9232 B10
- 2381 H12 9235 E10
- 2382 I11 9239 M10
- 2386 H15 9243 D10
- 3201 D 1
- 3201 D 1
- 3202 I 6
- 3203 D 5
- 3204 B 5
- 3204 C 5
- 3204 B 5
- 3204 C 6
- 3209 C 6
- 3209 C 6
- 3211 C 7
- 3212 N 4
- 3213 O 4
- 3214 B13
- 3215 A12
- 3216 G 9
- 3238 B13
- 3239 C13
- 3240 B13
- 3241 D13
- 3242 E12
- 3243 F13
- 3244 F12
- 3245 F13
- 3247 F14
- 3248 E14
- 3249 M 8
- 3250 O 7
- 3251 N 7
- 3252 L 8
- 3253 L 9
- 3255 M 8
- 3266 O11
- 3267 N11
- 3268 N12
- 3270 N13
- 3271 N12
- 3272 N13
- 3273 O14
- 3275 O14
- 3306 I 7
- 3376 H11
- 3380 G13
- 3381 H13
- 3382 H15
- 3383 H14
- 3387 H15
- 5202 C 4
- 5203 A 5
- 5203 A 5
- 5204 C 4
- 5204 A 4
- 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
- 6237 C11
- 6238 D11
- 6246 G12
- 6251 O 8
- 6260 L11





	16:9	4:3 1) (29")
2700	100p	-
2701	12p	6p8
2707	33n/2KV0	33n/1KV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R 3R9 1)
3703	3R3	1R 3R9 1)
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	4.7k	-
4.704	-	X
5700	82U	33u 39u 1)
5703	-	-
9702	X	-

- 2700 K 6
- 2701 J 2
- 2702 M 2
- 2703 L 4
- 2704 K 4
- 2705 M 6
- 2706 M 6
- 2707 L 8
- 2708 N 4
- 2709 E 7
- 2710 M 7
- 2711 G 2
- 2712 I 2
- 2713 E 4
- 2714 H 4
- 2715 I 4
- 2720 B 5
- 2721 C 2
- 2722 E 2
- 2724 D 4
- 2725 D 2
- 2726 H 2
- 2727 K 2
- 2729 E 6
- 3700 L 2
- 3701 K 6
- 3702 J 4
- 3703 K 6
- 3704 K 2
- 3705 K 2
- 3706 I 3
- 3707 M 4
- 3708 J 5
- 3709 L 5
- 3710 J 5
- 3712 G 4
- 3714 H 2
- 3715 G 2
- 3716 F 3
- 3718 H 5
- 3719 G 5
- 3720 C 5
- 3722 D 4
- 3723 B 5
- 3724 D 2
- 3726 C 3
- 3727 K 7
- 3728 G 5
- 3730 K 8
- 3731 L 7
- 3732 D 8
- 3733 N 5
- 3734 E 8
- 3735 M 5
- 3736 M 5
- 3737 N 6
- 3738 M 5
- 3739 M 6
- 3740 E 7
- 3741 K 4
- 3742 H 4
- 3743 D 4
- 3744 D 6
- 4709 I 2
- 5700 J 7
- 6700 M 1
- 6701 C 4
- 6702 F 4
- 6703 I 4
- 6707 M 4
- 6708 E 7
- 6709 E 6
- 6710 D 4
- 6711 H 4
- 6712 K 4
- 7704 N 5
- 7705 K 3
- 7706 G 3
- 7707 D 3

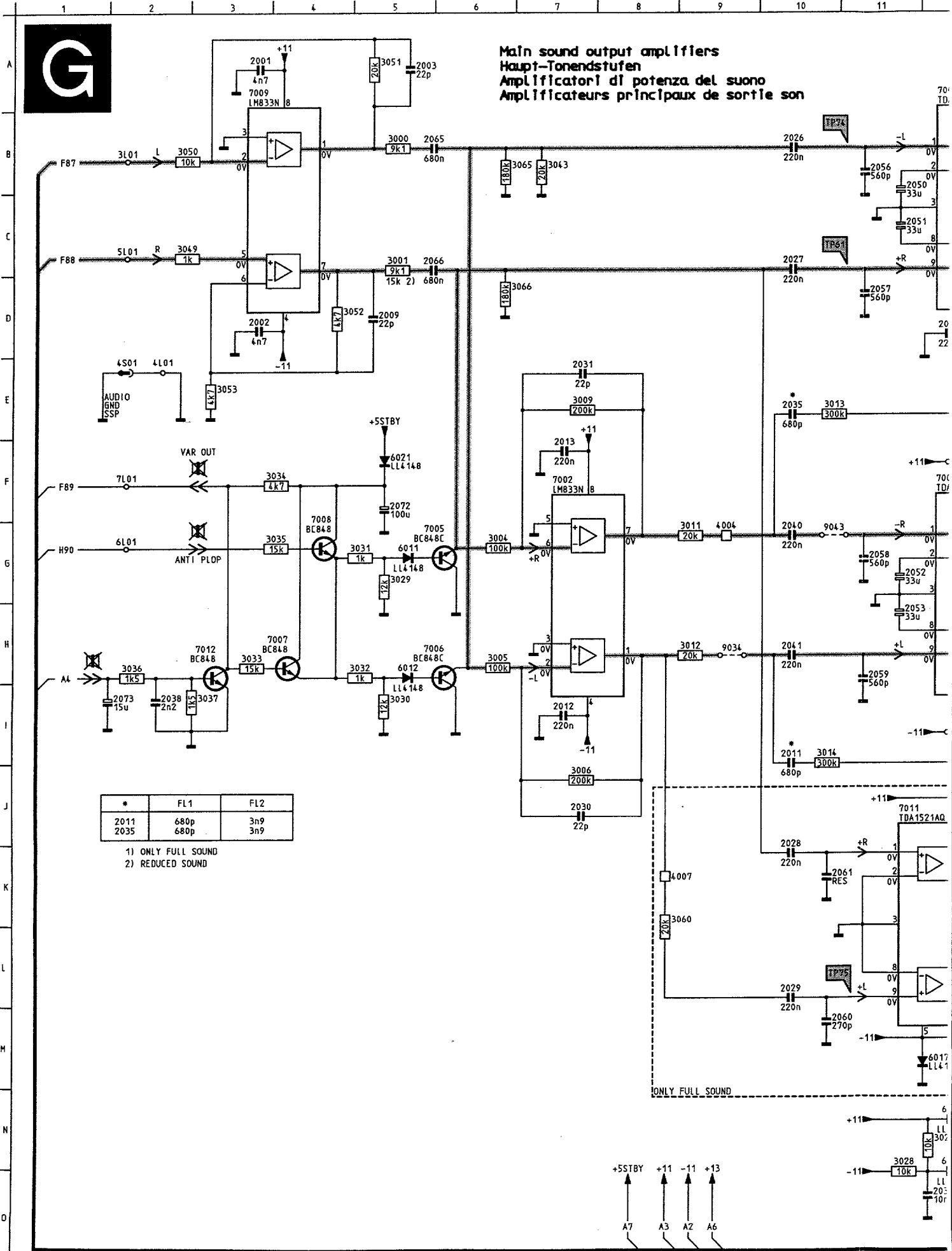
CHASSIS FL  
 C136532078/013, EREF  
 020893







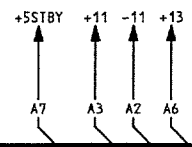
Main sound output amplifiers  
Haupt-Tonendstufen  
Amplificatori di potenza del suono  
Amplificateurs principaux de sortie son



*	FL1	FL2
2011	680p	3n9
2035	680p	3n9

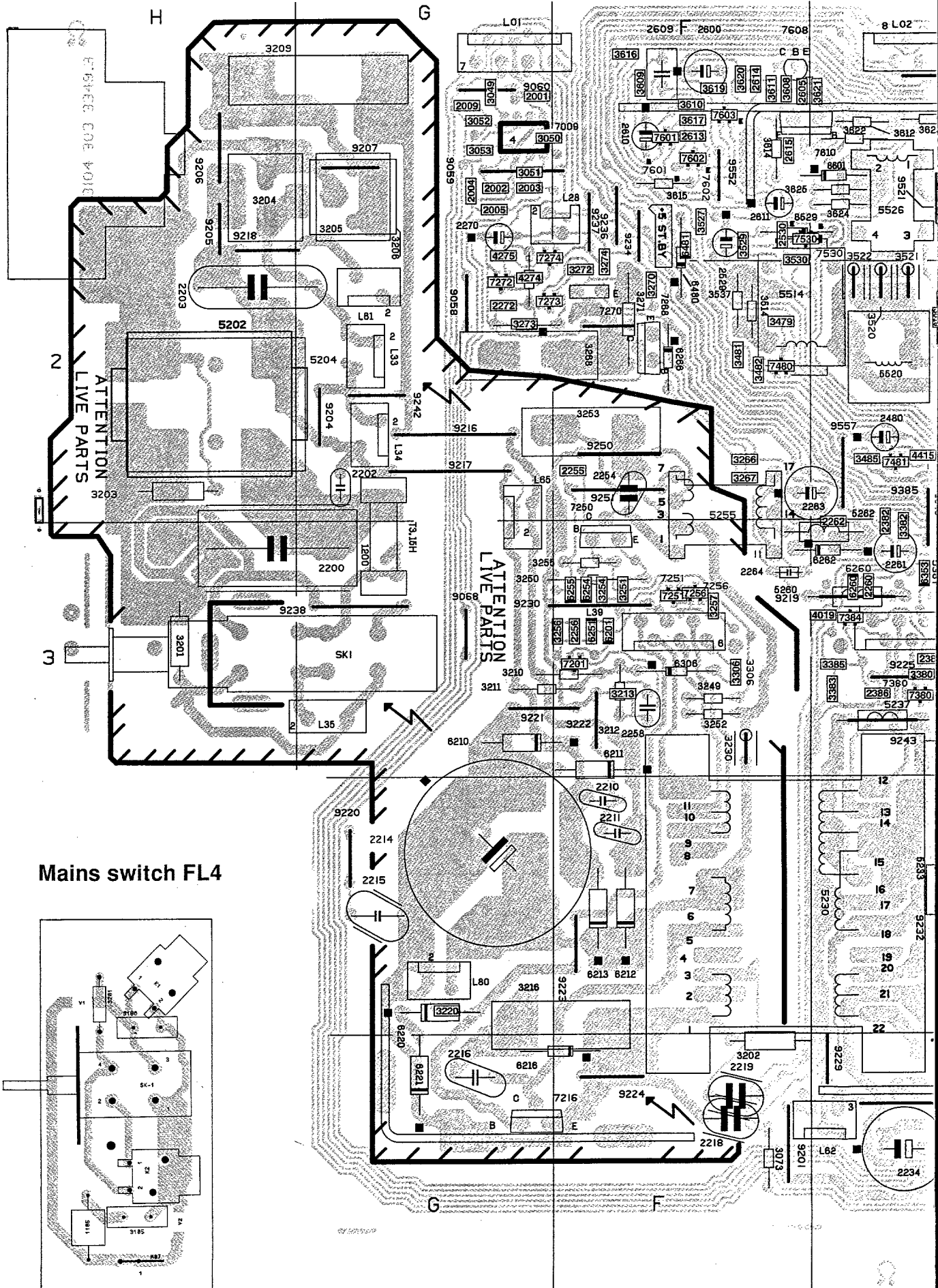
- 1) ONLY FULL SOUND
- 2) REDUCED SOUND

ONLY FULL SOUND

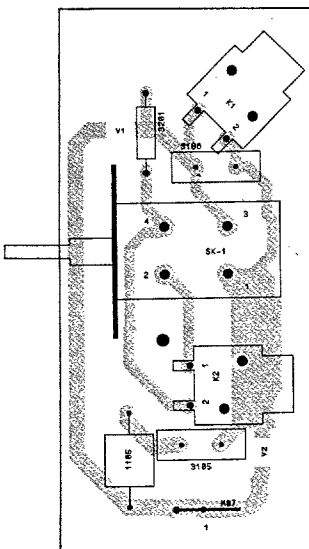




L01	F1	2238	D4	3009	C5	3369	H4	3537	F2	5262	E3	7000	C5	9008	B5	9236	F1	9601	E1	
L02	E1	2240	D4	3011	C5	3370	H4	3538	D3	5308	H5	7001	O5	9010	C5	9237	F1	9614	E2	
L03	A1	2241	B4	3012	C5	3371	H4	3539	D1	5310	H5	7002	C5	9012	A4	9238	G3	9615	B2	
L08	C4	2242	B4	3013	D4	3372	H4	3540	C4	5381	E3	7003	A5	9013	A4	9239	B4			
L13	C4	2250	F3	3014	D4	3374	H4	3541	C4	5503	B1	7005	O5	9015	B4	9240	B4			
L27	B3	2254	F2	3016	B5	3375	H4	3542	C4	5504	C1	7006	D5	9017	B5	9241	E3			
L28	G1	2255	F3	3019	B5	3376	E3	3543	C4	5506	C1	7007	D5	9020	D5	9242	G2			
L30	A1	2258	F3	3020	B5	3378	H4	3544	C4	5510	D1	7008	D5	9022	A3	9243	E3			
L31	E2	2259	F3	3021	B5	3380	E3	3545	E2	5511	D3	7009	G1	9023	A4	9244	B4			
L33	G2	2260	E3	3022	B5	3381	E3	3546	C4	5514	F2	7010	A5	9024	A4	9246	E1			
L34	G2	2261	E3	3027	A5	3382	E3	3547	C2	5520	E2	7011	B5	9025	A5	9250	F2			
L35	G3	2262	E3	3028	A5	3383	E3	3548	D2	5521	E1	7012	D4	9026	A4	9251	F2			
L36	A2	2263	E2	3029	D5	3385	E3	3549	D2	5522	E2	7013	A5	9027	A5	9300	H5			
L37	A3	2270	G1	3030	D5	3402	A2	3550	B4	5524	D1	7201	F3	9028	A5	9302	H4			
L38	A2	2272	G2	3031	D5	3403	A2	3553	B4	5525	C4	7216	G5	9029	B5	9385	E2			
L39	F3	2302	H5	3032	D5	3404	B2	3554	B4	5526	E1	7241	B4	9031	C4	9400	C1			
L40	E3	2303	H5	3033	D4	3405	B3	3555	B3	5527	C1	7242	B4	9032	C5	9401	B2			
L51	G2	2308	H5	3034	D4	3406	B3	3556	B3	5528	C2	7246	E1	9033	C5	9402	B3			
L62	E5	2321	H5	3035	D5	3407	B3	3557	C4	5534	D3	7250	F3	9034	C5	9405	A1			
L65	G2	2331	H4	3036	D4	3408	B3	3558	B3	5536	D3	7251	F3	9035	A4	9406	B2			
L67	D4	2351	H4	3037	D4	3409	B3	3559	B4	5543	D4	7268	F2	9036	A4	9407	B2			
L68	C3	2360	H4	3040	A5	3410	B3	3560	C3	5548	D1	7270	F2	9037	B3	9450	B1			
L69	A2	2361	H4	3041	A5	3411	B2	3561	C3	5555	D3	7272	G2	9038	B3	9451	A1			
L80	G4	2365	H4	3042	A5	3412	B3	3562	B4	6000	A5	7273	F2	9039	B1	9453	B2			
L87	B2	2372	H4	3043	C4	3413	B3	3563	B4	6001	A5	7274	G1	9041	C4	9454	B2			
SK1	G3	2374	H4	3044	A5	3414	B3	3600	B2	6008	A3	7305	H5	9042	C4	9456	B2			
SK2	B3	2376	H4	3049	G1	3415	B3	3601	C2	6010	A5	7311	H5	9043	D5	9457	A1			
0207	A4	2380	E3	3050	G1	3416	B3	3602	B2	6011	D5	7312	H5	9045	D4	9459	A3			
0211	A3	2381	E3	3051	G1	3417	B3	3603	B2	6012	D5	7318	H5	9046	D4	9460	B2			
039	H5	2382	E3	3052	G1	3418	B3	3604	B2	6016	B5	7320	H4	9047	E5	9461	B3			
040	H4	2386	E3	3053	G1	3419	B3	3605	C3	6017	E4	7321	F3	9048	D4	9462	C4			
1200	G3	2401	B3	3054	A2	3420	B3	3606	B2	6021	D4	7360	H4	9050	A3	9468	B3			
2001	G1	2402	A2	3060	B5	3421	B3	3607	B2	6201	F3	7369	H4	9051	D4	9471	B2			
2002	G1	2403	A2	3061	B5	3422	B3	3608	F1	6210	G3	7370	H4	9052	D4	9472	A2			
2003	G1	2404	A2	3065	C4	3423	B3	3609	F1	6211	F3	7371	H4	9053	D5	9473	B2			
2004	G1	2405	A2	3066	C5	3424	B2	3610	F1	6212	F4	7380	E3	9054	D4	9500	D2			
2005	G1	2406	B3	3067	A4	3425	B3	3611	F1	6213	F4	7381	E3	9055	A4	9501	D2			
2007	B5	2407	B2	3068	A4	3426	A2	3612	E1	6216	F5	7384	E3	9056	A4	9504	D2			
2008	B5	2408	C3	3069	A4	3427	B3	3614	F1	6220	G4	7400	B3	9057	C5	9505	C1			
2009	G1	2409	B2	3072	A5	3428	C3	3615	F1	6221	G5	7402	C3	9058	G2	9506	D1			
2010	A4	2410	B2	3073	F5	3429	B3	3616	F1	6230	E4	7403	A1	9059	G1	9507	C2			
2011	D5	2411	B2	3074	A5	3430	B3	3617	F1	6231	E4	7407	B3	9060	G1	9508	B2			
2012	C5	2412	C3	3201	H3	3431	B3	3618	B2	6232	E4	7417	B3	9063	B5	9510	D2			
2013	C5	2415	A3	3202	F5	3437	A1	3619	F1	6233	E4	7444	B2	9064	B5	9511	C2			
2014	A3	2416	B3	3203	H2	3438	B2	3620	F1	6235	D3	7445	B2	9065	B4	9513	D1			
2015	A3	2417	B3	3204	H1	3439	B3	3621	E1	6237	E3	7450	A1	9066	B5	9521	E1			
2016	A3	2418	A3	3205	G1	3440	B1	3622	E1	6238	E3	7451	A1	9067	A3	9522	E1			
2018	A5	2419	A2	3206	G1	3441	B3	3623	E1	6247	B4	7469	B2	9068	G3	9524	D1			
2019	A4	2450	A1	3209	G1	3442	B3	3624	E1	6251	F3	7480	F2	9200	E5	9530	B2			
2020	A4	2451	B1	3210	F3	3443	C3	3625	E1	6260	E3	7481	E2	9201	F5	9533	C2			
2021	A4	2452	B1	3211	G3	3444	B2	3626	B2	6262	E3	7501	B2	9202	D3	9534	C2			
2022	A4	2454	A2	3212	F3	3446	B2	3627	A1	6266	F2	7504	D1	9203	D4	9535	C3			
2023	A3	2455	B1	3213	F3	3450	A1	3628	A1	6272	G2	7506	D1	9204	G2	9537	C3			
2024	A3	2456	A2	3214	E5	3451	A1	3629	B2	6280	C4	7512	C3	9205	H1	9539	C3			
2025	C5	2457	A2	3215	E5	3452	B1	3630	A2	6302	H5	7513	C3	9206	H1	9541	D2			
2026	B5	2458	B1	3216	F4	3455	A1	3631	A2	6303	H5	7530	F1	9207	G1	9542	C2			
2027	C5	2459	B1	3220	G4	3456	A2	3632	C3	6304	H5	7540	C4	9216	G2	9543	C2			
2028	B5	2460	B1	3230	F3	3457	A2	3633	A2	6305	H5	7541	C4	9217	G2	9544	D1			
2029	B5	2480	E2	3234	B4	3458	A1	3634	A1	6306	F3	7542	C4	9218	H1	9545	C1			
2030	C5	2502	B2	3235	B4	3459	A1	4000	A5	6308	H5	7543	D2	9219	E3	9547	D1			
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2036	A4	2512	C3	3241	B4	3465	A2	4006	D5	6321	F3	7603	F1	9225	E3	9556	C1			
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2042	C5	2521	D1	3249	F3	3471	A1	4039	B1	6353	E3	9001	C5	9233	F2	9565	B4			
2043	C5	2522	D1	3250	F3	3473	B1	4274	G2	6355	H4	9002	A3	9234	F1	9566	D3			
2044	D5	2523	C1	3251	F3	3474	A2	4400	B1	6356	H4	9003	A4	9235	E4	9567	D3			
2045	D5	2524	D1	3252	F3	3479	F2	4410	B2	6357	H4									
2046	B5	2526	C1	3253	F2	3480	B1	4411	B2	6370	H4									
2047	B5	2527	C1	3255	F3	3481	F2	4412	B2	6371	H4									
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2049	A4	2529	F1	3267	F2	3483	B3	4415	E2	6373	E3									
050	C5	2530	F1	3268	G2	3484	B3	4416	B2	6375	E3									
051	C5	2531	D3	3270	F2	3485	E2	4417	B2	6376	E3									
052	D5	2533	D3	3271	F2	3490	B3	4420	A2	6402	B3									
053	D5	2534	D3	3272	F2	3500	B2	4421	B2	6403	C3									
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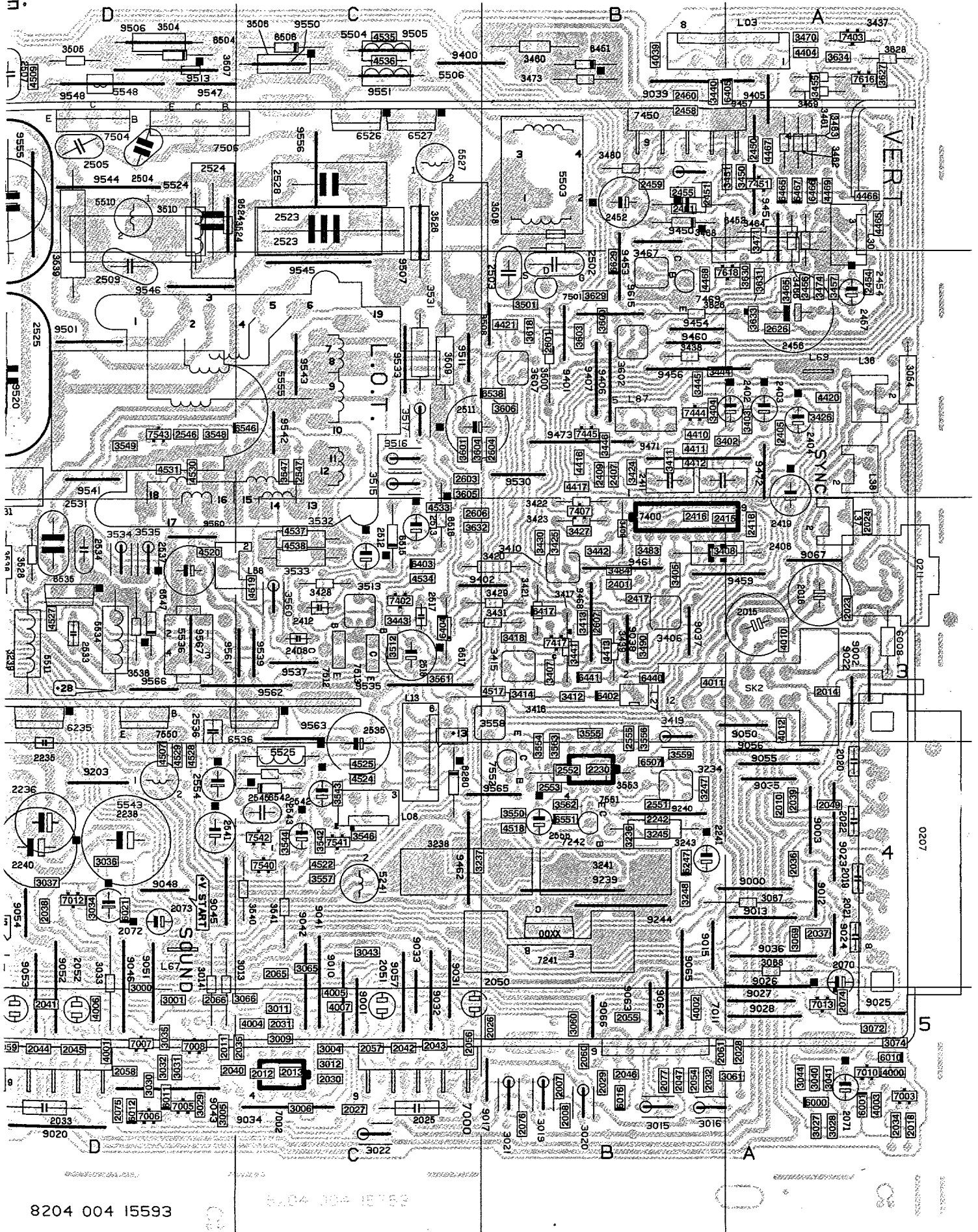


Mains switch FL4





# gneaux FLx.26/27



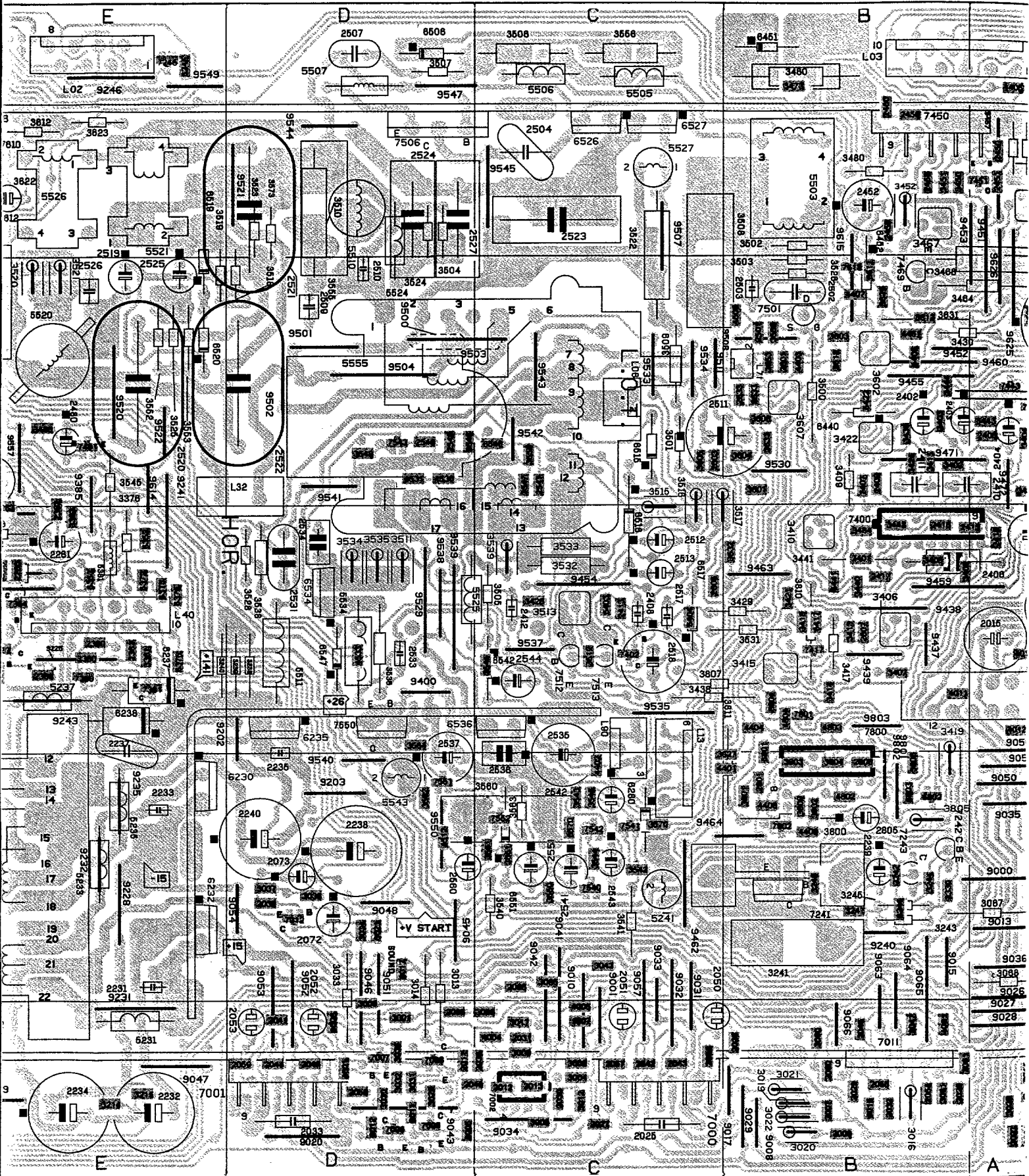
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L03	A1	2261	E3	3013	D4	3378	H4	3556	C1	5534	D3	7305	H5	9240	B4	9522	E2
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L13	C4	2263	E2	3016	B5	3381	E3	3559	B2	5555	D3	7312	H5	9242	G2	9530	B2
L30	A1	2270	G1	3019	B5	3382	E3	3560	C4	6000	A5	7318	H5	9243	E3	9533	C2
L32	E2	2272	G2	3020	B5	3383	E3	3561	C4	6001	A5	7320	H4	9246	E1	9534	C2
L33	G2	2302	H5	3021	B5	3387	E3	3562	D4	6008	A3	7360	H4	9247	F1	9535	C3
L34	G2	2303	H5	3022	B5	3402	B2	3563	C4	6010	A5	7369	H4	9250	F2	9537	C3
L35	G3	2308	H5	3027	A5	3403	B2	3564	D3	6011	D5	7370	H4	9251	F2	9538	D3
L36	A2	2321	H5	3028	A5	3404	A2	3570	C4	6012	D5	7371	H4	9300	H5	9539	D3
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L61	G2	2361	H4	3033	D4	3409	B2	3604	B2	6210	G3	7402	C3	9438	B3	9544	D1
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SK1	G3	2381	E3	3041	A5	3417	B3	3610	F1	6221	G5	7489	B2	9454	C3	9557	E2
SK2	B3	2382	E3	3043	C4	3418	B3	3611	F1	6230	E4	7480	F2	9455	B2	9614	E2
0211	A3	2386	E3	3044	A5	3419	B4	3612	E1	6232	E4	7481	E2	9457	A1	9615	B2
039	H5	2401	B3	3049	G1	3421	B3	3613	B2	6235	D3	7501	B2	9459	B3	9625	A2
040	H4	2402	B2	3050	G1	3422	B2	3614	E1	6237	E3	7506	D1	9460	B2	9626	A2
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2003	G1	2406	B3	3054	A2	3429	B3	3618	B2	6260	E3	7540	C4	9471	B2		
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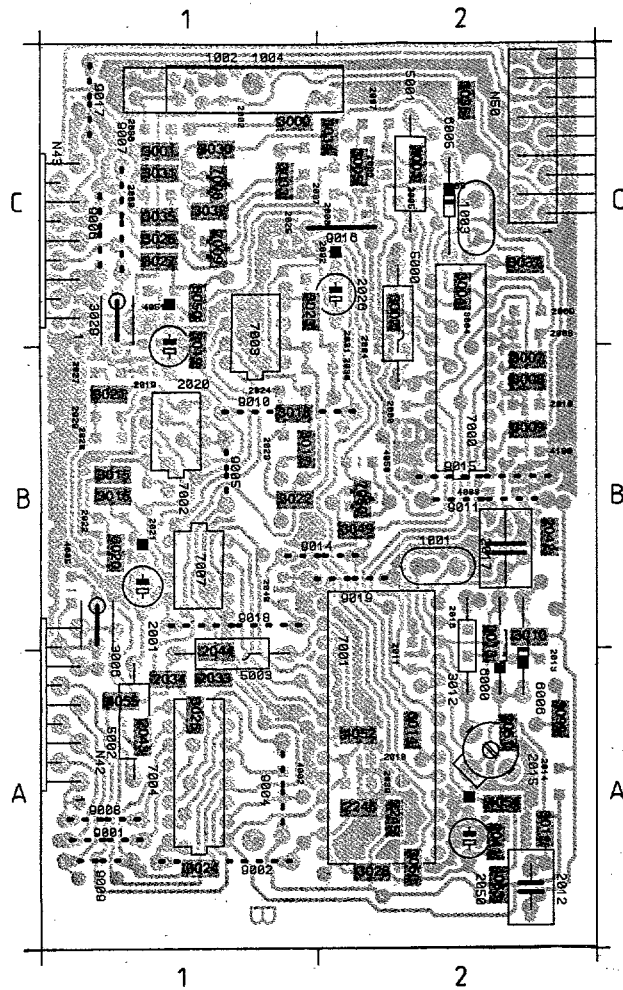


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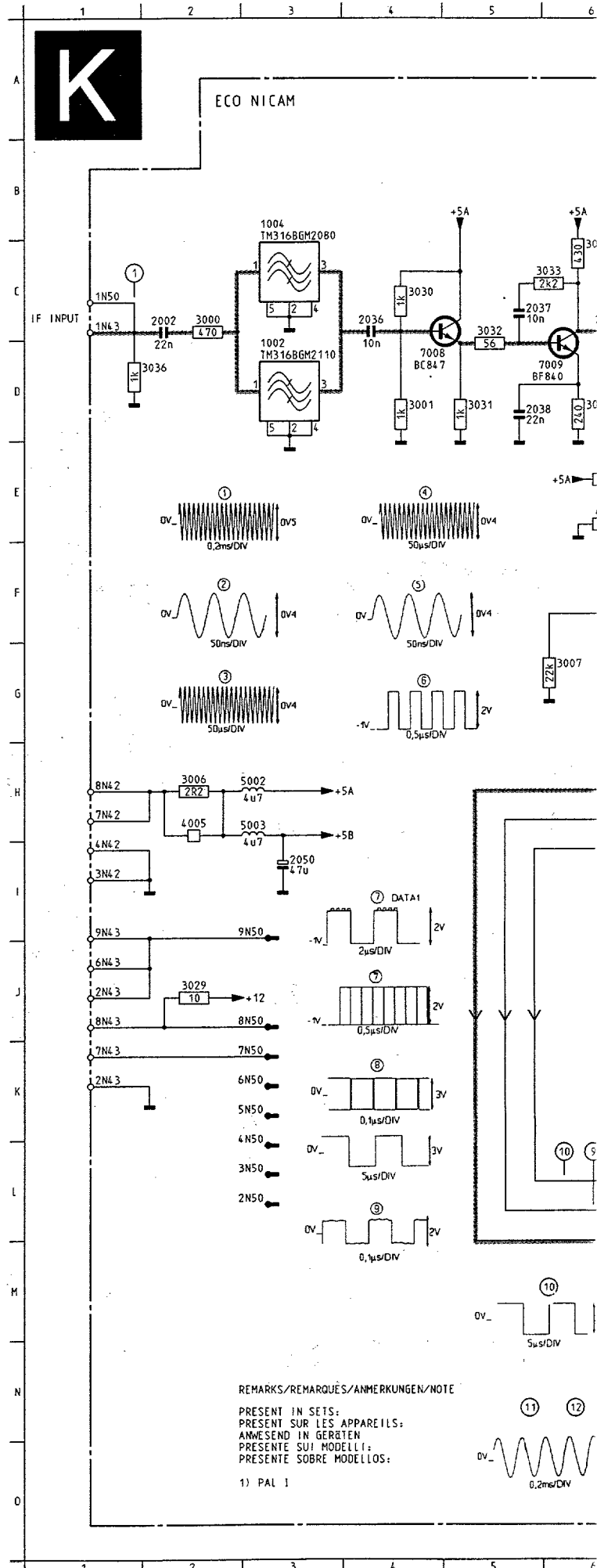




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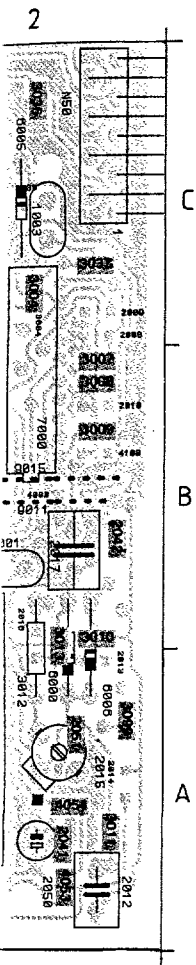
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1001	B2	2021	B1	2051	A2	3022	B1	4053	A2	9006	C1
1002	C1	2022	B1	2245	A2	3023	C1	4054	A2	9007	C1
1003	C2	2023	B1	2246	A2	3024	A1	4055	A1	9008	A1
1004	C1	2024	B1	3000	C1	3025	A1	4100	B2	9009	A1
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2003	C2	2028	B1	3004	C2	3029	C1	5003	A1	9015	B2
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2005	C2	2030	B2	3006	B1	3031	C1	6005	C2	9017	C1
2006	C2	2031	B2	3007	B2	3032	C1	6006	A2	9018	B1
2007	C2	2032	C1	3008	B2	3033	C1	6050	C1	9019	B2
2008	B2	2033	A1	3009	B2	3034	C2	7000	B2		
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2013	A2	2038	C1	3014	A2	3050	A2	7007	B1		
2014	A2	2039	A2	3015	B1	3099	A2	7008	C1		
2015	A2	2040	B1	3016	B1	4002	A1	7009	C1		
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2017	B2	2042	B2	3018	B1	4005	B1	9001	A1		



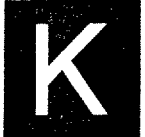
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

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

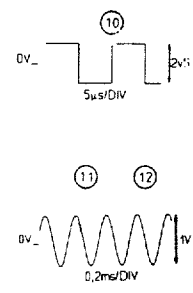
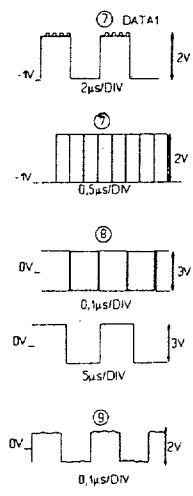
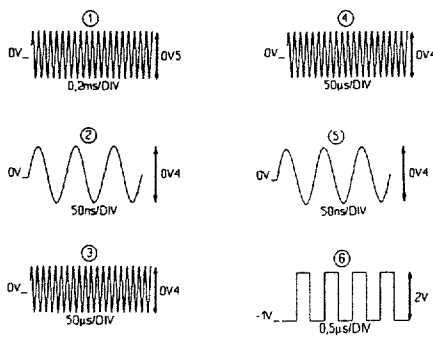
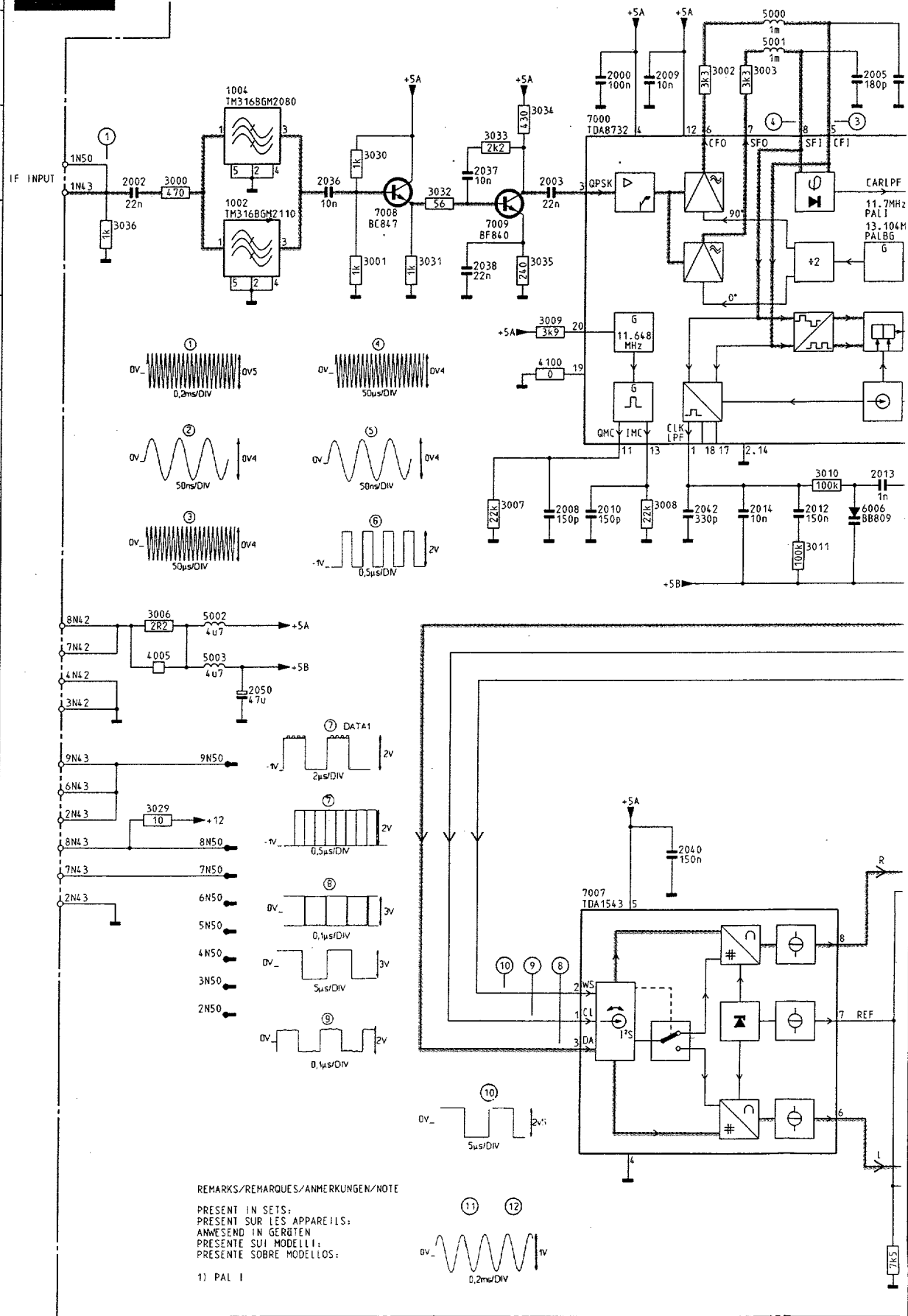
1) PAL 1



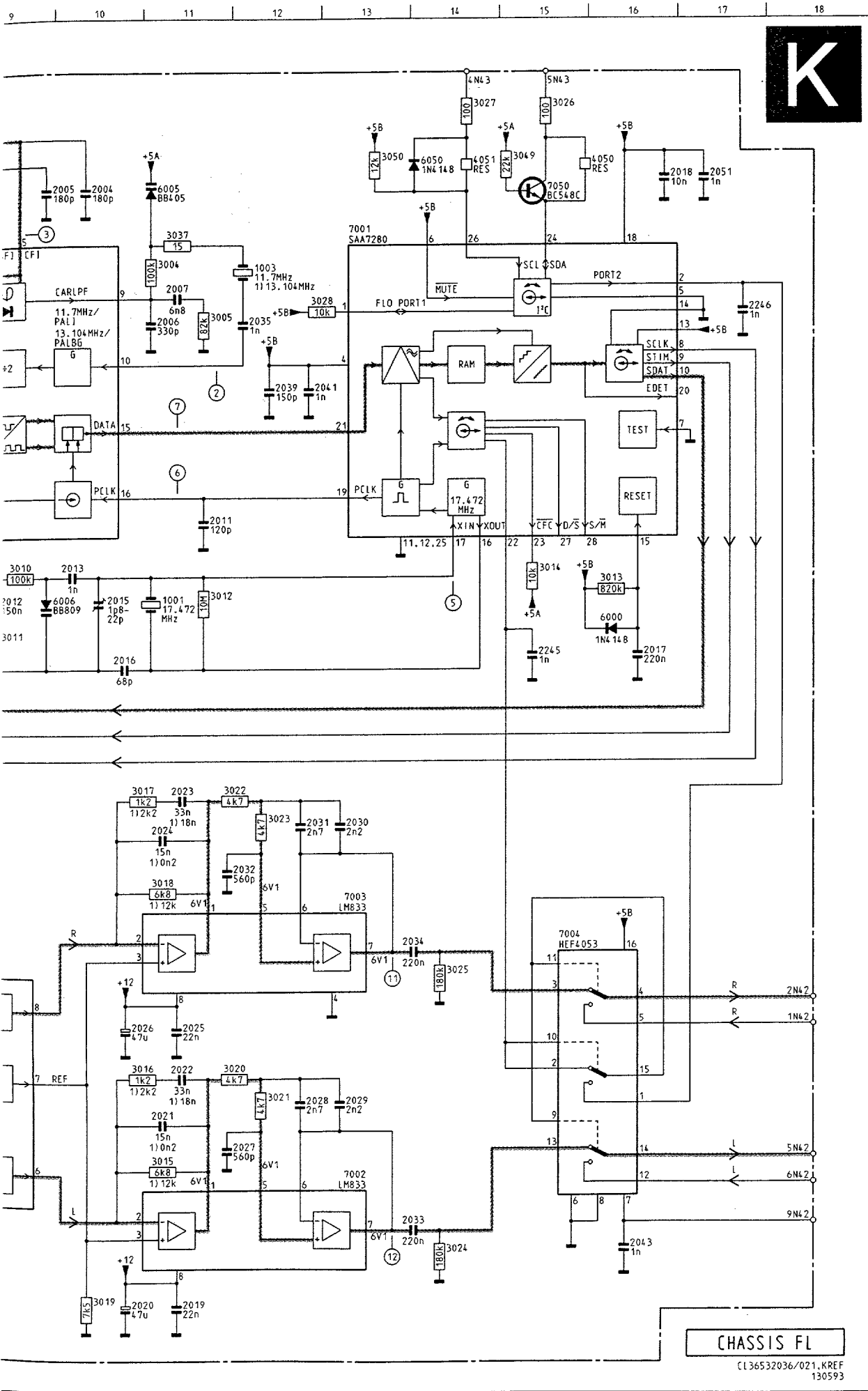
4050	B2	9002	A1
4051	C1	9004	A1
4052	A2	9005	B1
4053	A2	9006	C1
4054	A2	9007	C1
4055	A1	9008	A1
4100	B2	9009	A1
5000	C2	9010	B1
5001	C2	9011	B2
5002	A1	9014	B2
5003	A1	9015	B2
6000	A2	9016	C2
6005	C2	9017	C1
6006	A2	9018	B1
6050	C1	9019	B2
7000	B2		
7001	A2		
7002	B1		
7003	B1		
7004	A1		
7007	B1		
7008	C1		
7009	C1		
7050	B2		
9001	A1		



ECO NICAM

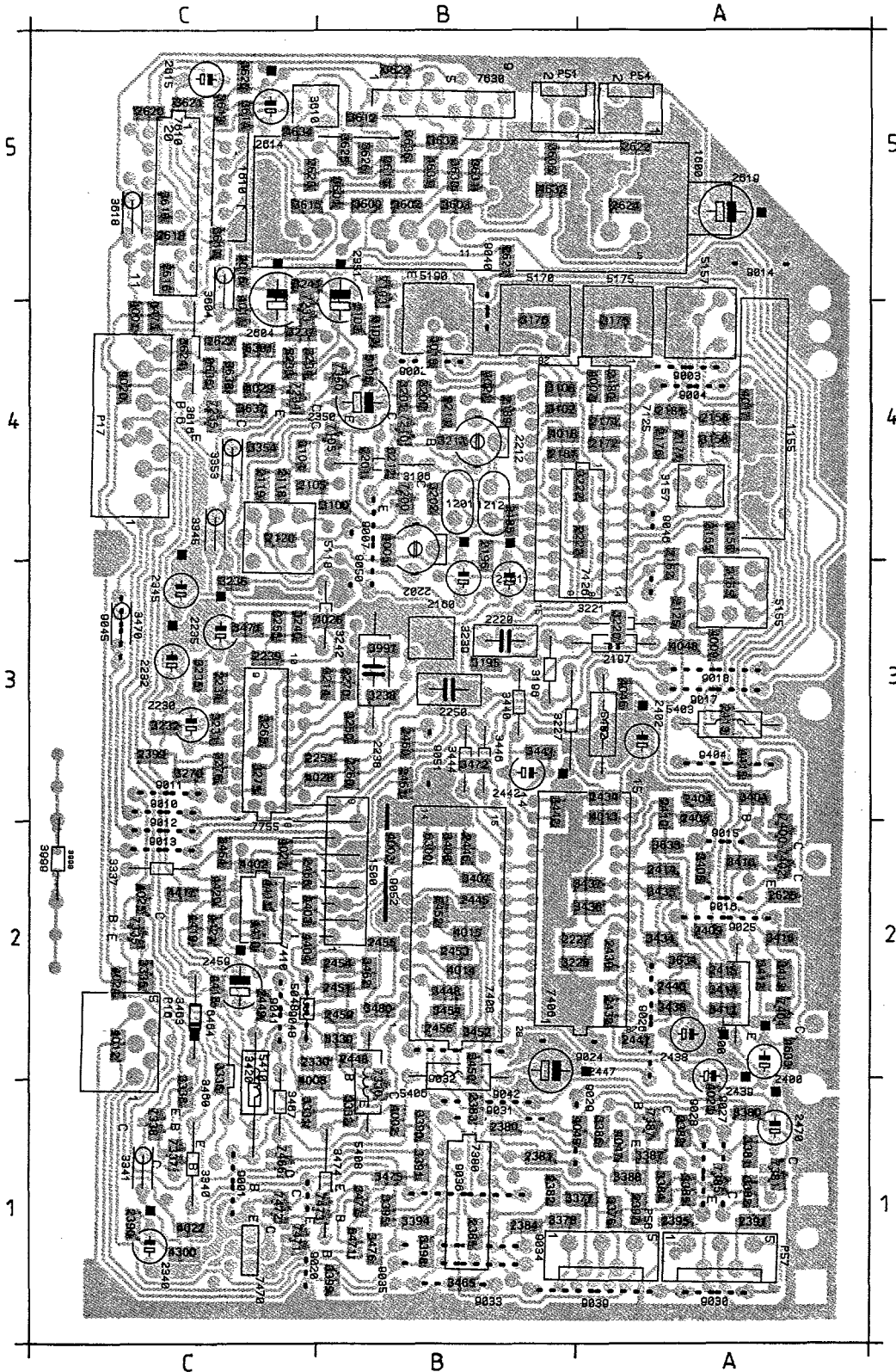


REMARKS/REMARQUES/ANMERKUNGEN/NOTE  
 PRESENT IN SETS;  
 PRESENT SUR LES APPAREILS;  
 ANWESEND IN GERÄTEN  
 PRESENTE SUI MODELLI;  
 PRESENTE SOBRE MODELOS:  
 1) PAL I



# PIP panel

- 1001 G11
- 1002 D 3
- 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
- 2013 F10
- 2014 G 8
- 2015 G10
- 2016 G10
- 2017 G16
- 2018 B16
- 2019 O11
- 2020 O10
- 2021 M11
- 2022 L11
- 2023 I11
- 2024 I11
- 2025 L11
- 2026 L10
- 2027 M12
- 2028 L12
- 2029 L13
- 2030 L13
- 2031 L12
- 2032 J12
- 2033 N14
- 2034 K14
- 2035 D12
- 2036 C 4
- 2037 C 5
- 2038 D 5
- 2039 D12
- 2040 J 8
- 2041 D12
- 2042 G 8
- 2043 N16
- 2050 I 3
- 2051 B17
- 2245 G15
- 2246 D17
- 3000 C 2
- 3001 D 4
- 3002 B 8
- 3003 B 8
- 3004 C11
- 3005 D11
- 3006 H 2
- 3007 G 6
- 3008 G 7
- 3009 E 6
- 3010 F 9
- 3011 G 9
- 3012 G11
- 3013 G16
- 3014 F15
- 3015 M11
- 3016 L10
- 3017 I10
- 3018 J11
- 3019 O10
- 3020 L12
- 3021 L12
- 3022 L12
- 3023 L12
- 3024 N14
- 3025 K14
- 3026 A15
- 3027 A14
- 3028 C13
- 3029 J 2
- 3030 C 4
- 3031 D 5
- 3032 C 5
- 3033 C 6
- 3034 C 6
- 3035 D 6
- 3036 D 1
- 3037 C11
- 3049 B15
- 3050 B13
- 4005 H 2
- 4050 B16
- 4051 B14
- 4100 E 6
- 5000 B 9
- 5001 B 9
- 5002 H 3
- 5003 H 3
- 6000 G16
- 6005 B11
- 6006 G 9
- 6050 B14
- 7000 C 7
- 7001 C13
- 7002 M13
- 7003 J13
- 7004 K15
- 7007 K 7
- 7008 D 5
- 7009 D 6
- 7050 B15

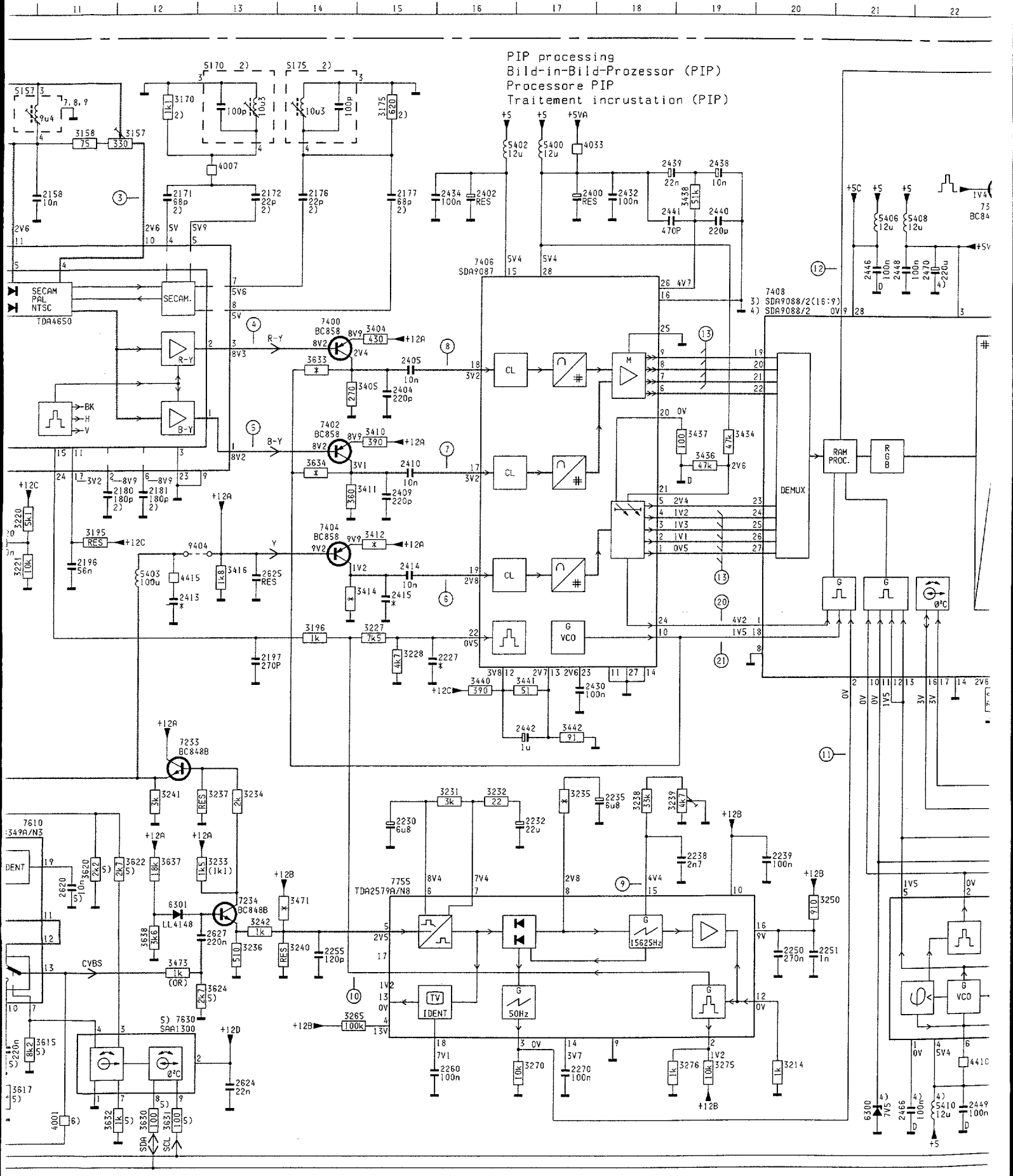


3332 B1	3636 B5	7473 B1
3335 C2	3637 C4	7610 C5
3336 C1	3638 C4	7630 B5
3337 C2	3997 B3	7755 C3
3338 C1	4001 C4	9001 C1
3340 C1	4002 B1	9002 B4
3341 C1	4003 B2	9003 A4
3345 C4	4005 B4	9004 A4
3353 C4	4007 A4	9007 B4
3354 C4	4008 C1	9010 C2
3376 A1	4009 A3	9011 C3
3377 A1	4011 C4	9012 C2
3378 B1	4012 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
3390 B1	4022 C1	9027 A1
3391 B1	4023 A1	9028 A1
3394 B1	4024 C2	9029 A1
3395 B1	4025 C2	9030 A1
3398 B1	4026 B3	9031 B1
3399 B1	4027 C2	9032 B2
3404 A3	4028 C3	9033 B1
3405 A2	4029 C4	9034 B1
3406 B2	4046 A3	9035 B1
3407 B2	4047 A1	9036 B1
3410 A2	4048 A3	9039 A1
3411 A2	4049 A1	9040 B4
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
3438 A2	4419 C2	
3440 B3	4420 C2	
3441 B3	4421 C2	
3442 B3	4631 B5	
3444 B3	4632 B5	
3446 B3	4633 A2	
3448 B2	4634 C5	
3450 B2	5048 C2	
3452 B2	5118 C4	
3454 B2	5155 A3	
3460 C1	5157 A4	
3462 B2	5170 B4	
3463 C2	5175 A4	
3464 C2	5190 B4	
3465 B1	5400 A2	
3467 C1	5402 A3	
3471 C3	5403 A3	
3472 B3	5406 B1	
3473 C4	5408 B1	
3474 B1	5410 C1	
3475 B1	6300 B2	
3476 B1	6301 C4	
3477 B1	6464 C2	
3480 B2	6471 B1	
3600 B5	7103 B5	
3601 B5	7105 B4	
3602 B5	7125 B4	
3603 B5	7126 B4	
3604 C4	7200 B4	
3605 B5	7210 B4	
3610 C5	7233 C4	
3611 B5	7234 C4	
3612 B5	7235 C4	
3613 C5	7330 B1	
3614 C5	7335 C2	
3615 C5	7337 C1	
3616 C4	7338 C1	
3617 C5	7350 B4	
3618 C5	7380 B1	
3619 C5	7381 A1	
3620 C5	7385 A1	
3621 C5	7387 A1	
3622 B5	7400 A2	
3624 C4	7402 A2	
3625 B5	7404 A2	
3626 B5	7406 A2	
3630 B5	7408 B2	
3631 B5	7410 C2	
3632 B5	7466 C1	
3633 A2	7470 C1	
3634 A2	7471 C1	
3635 C4	7472 C1	

P16 C2	2120 C4	2196 B4	2251 C3	2391 A1	2438 A2	2456 B2	2624 A5	3195 B3	3234 C4
P17 C4	2125 A3	2197 A3	2255 C3	2395 A1	2439 A2	2459 C2	2625 A2	3196 B3	3235 C3
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 processing  
 Bild-in-Bild-Prozessor (PIP)  
 Processore PIP  
 Traitement incrustation (PIP)

7408 SDA9088/2(16:9)  
 3) SDA9088/2  
 4) SDA9088/2

7404 BC858 8V9 3410 430  
 7402 BC858 8V9 3410 390  
 7404 BC858 9V9 3412 412A

7233 BC848B  
 7610 S49A/N3  
 7755 TDA2579A/N8

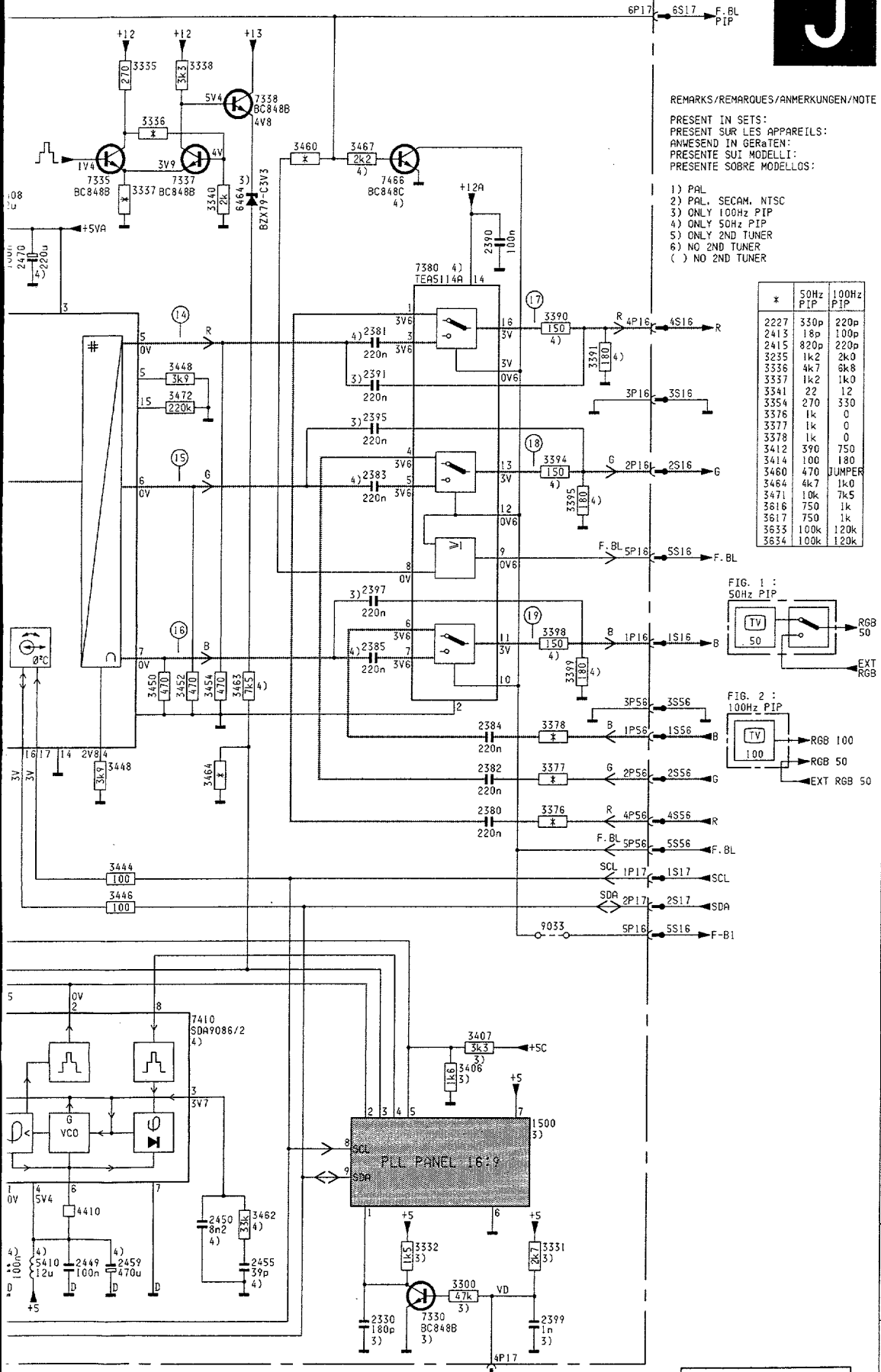
7630 SAA1300  
 7400 BC858 8V9 3404 430  
 7402 BC858 8V9 3410 390  
 7404 BC858 9V9 3412 412A

7408 SDA9088/2(16:9)  
 3) SDA9088/2  
 4) SDA9088/2

7404 BC858 9V9 3412 412A  
 7402 BC858 8V9 3410 390  
 7400 BC858 8V9 3404 430

7408 SDA9088/2(16:9)  
 3) SDA9088/2  
 4) SDA9088/2

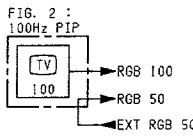
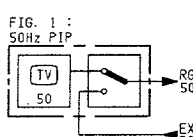
7404 BC858 9V9 3412 412A  
 7402 BC858 8V9 3410 390  
 7400 BC858 8V9 3404 430



REMARKS/REMARQUES/ANMERKUNGEN/NOTE  
 PRESENT IN SETS:  
 PRESENT SUR LES APPAREILS:  
 ANWESENDE IN GERÄTEN:  
 PRESENTE SUI MODELLI:  
 PRESENTE SOBRE MODELLS:

- 1) PAL
- 2) PAL. SECAM. NTSC
- 3) ONLY 100Hz PIP
- 4) ONLY 50Hz PIP
- 5) ONLY 2ND TUNER
- 6) NO 2ND TUNER
- ( ) NO 2ND TUNER

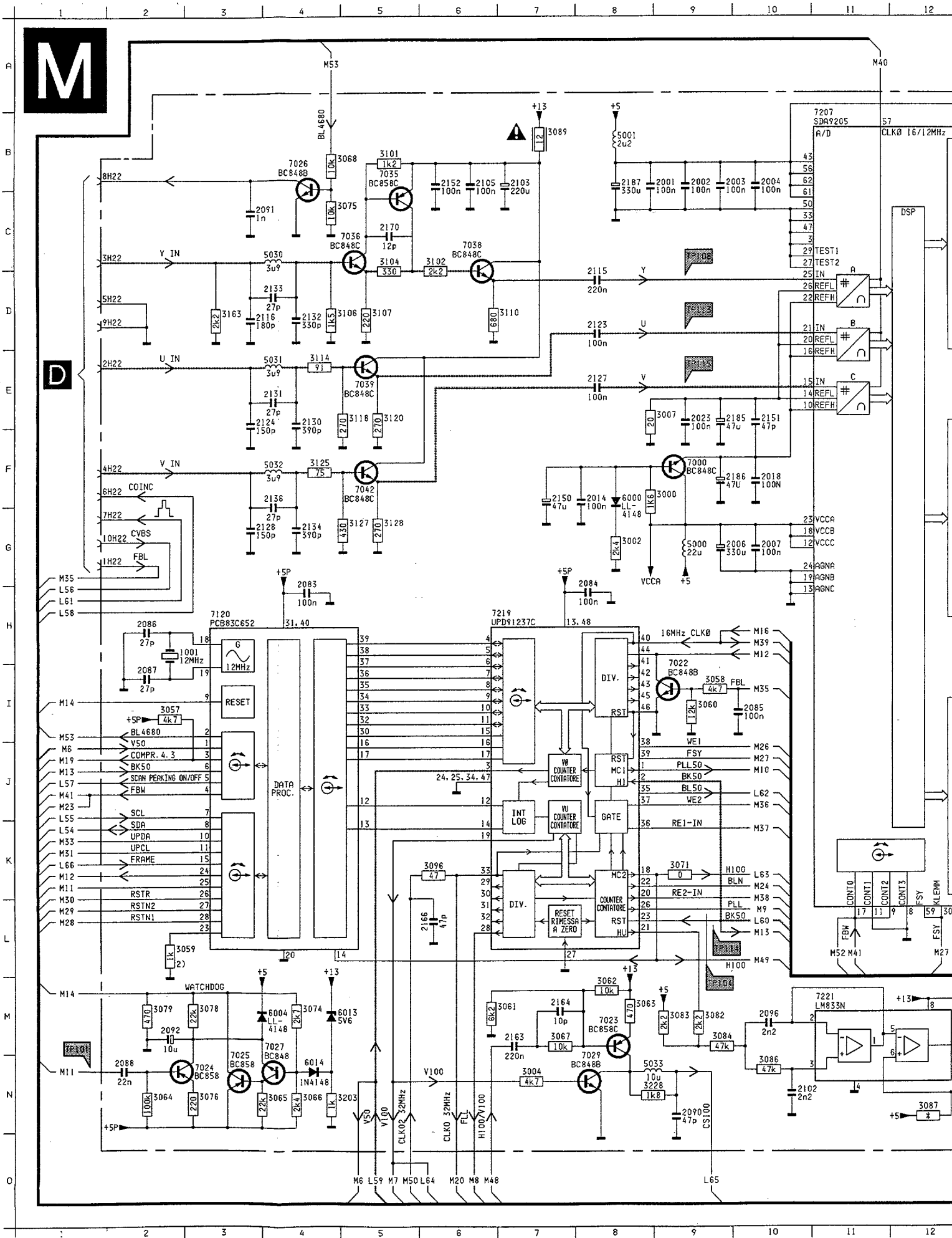
*	50Hz PIP	100Hz PIP
2227	330p	220p
2415	18p	100p
2415	820p	220p
3235	1k2	2k0
3336	4k7	6k8
3337	1k2	1k0
3341	22	12
3354	270	330
3376	1k	0
3377	1k	0
3378	1k	0
3412	390	750
3414	100	180
2239	K20	JUMPER
3464	4k7	1k0
3471	10k	7k5
3616	750	1k
3617	750	1k
3635	100k	120k
3634	100k	120k



1155	A 9	3201	H 7	4007	B13
1201	H 9	3202	G 9	4009	B 8
1212	I 9	3211	I 7	4033	B17
1500	L27	3212	I 9	4410	M22
1600	J 2	3214	M20	4415	G12
1610	K 6	3220	G10	4634	M 7
2103	D 4	3221	G10	5118	D 5
2105	D 5	3222	G10	5155	A 8
2118	D 6	3227	H15	5157	A10
2119	D 6	3228	H15	5170	A13
2120	D 6	3231	J16	5175	A14
2125	C 9	3232	J16	5190	G 8
2155	B 8	3233	K13	5400	B17
2158	C11	3234	J13	5402	B16
2160	C 7	3235	J17	5405	G12
2161	C 7	3236	L13	5408	C21
2162	C 8	3237	J13	5408	C21
2171	C12	3238	J18	5410	M22
2172	C13	3239	J19	6300	N21
2175	C 2	3240	L14	6301	K12
2176	C14	3241	J12	6464	C24
2177	C15	3242	L13	6471	C 3
2180	F11	3250	K20	7103	E 4
2181	F12	3265	M15	7105	E 5
2185	F 8	3270	M17	7125	C 8
2187	F 8	3275	M19	7126	C 8
2189	F 9	3276	M19	7200	H 8
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
2220	G10	3338	A23	7337	C23
2222	G10	3340	C24	7338	B24
2227	H16	3341	F 2	7350	H 3
2230	J15	3345	G 2	7380	D26
2232	J17	3353	G 2	7400	D14
2235	K18	3354	H 2	7402	E14
2238	K19	3376	I27	7404	G14
2239	K20	3377	I27	7406	C16
2250	L20	3378	H27	7408	D20
2251	L20	3390	D27	7410	K23
2255	L14	3391	D28	7466	C26
2260	M16	3394	F27	7470	A 3
2270	M17	3395	F27	7471	B 3
2330	Q25	3398	G27	7472	A 4
2340	F 2	3399	H27	7473	B 4
2345	G 2	3404	D15	7610	J11
2350	I 2	3405	E15	7630	M13
2351	I 3	3406	L26	7755	K15
2380	I27	3407	L26	9001	A 5
2381	D25	3410	F15	9033	J27
2382	I27	3411	F15	9045	E 2
2383	F25	3412	G15	9404	G13
2384	H27	3414	G15		
2385	H25	3416	G13		
2390	C27	3434	E19		
2391	E25	3436	F19		
2395	E25	3437	E19		
2397	G25	3438	C19		
2399	Q27	3440	I16		
2400	C17	3441	I17		
2402	C16	3442	I17		
2404	E15	3444	J23		
2405	E15	3446	J23		
2409	F15	3448	E23		
2410	F15	3448	I23		
2413	H12	3450	H23		
2414	G15	3452	H23		
2415	H15	3454	H24		
2430	I17	3460	B25		
2432	C18	3462	H24		
2434	C16	3463	H24		
2438	B19	3464	I24		
2439	B18	3467	B25		
2440	C19	3470	D 2		
2441	C18	3471	K14		
2442	I17	3472	E23		
2446	C21	3473	L12		
2448	C21	3474	B 5		
2449	N22	3475	B 4		
2450	M24	3476	B 3		
2455	N24	3477	B 4		
2459	N23	3600	M 3		
2466	N21	3601	N 3		
2470	C22	3602	N 5		
2804	N 4	3603	N 5		
2814	N 5	3604	N 4		
2815	M 9	3605	M 2		
2816	M10	3610	M 7		
2818	K 7	3611	M 6		
2819	K 6	3612	N 8		
2820	K11	3613	N 7		
2821	N 3	3614	N 6		
2822	N 2	3615	M 1		
2823	N 8	3616	M10		
2824	M13	3617	M10		
2825	G13	3618	J 8		
2827	L13	3619	J 9		
3100	E 5	3620	K11		
3103	C 5	3621	M 8		
3104	C 5	3622	K12		
3105	C 5	3624	L13		
3106	E 6	3625	M 6		
3107	E 6	3630	N12		
3108	E 6	3631	N12		
3155	A 8	3632	N12		
3156	B 9	3633	E14		
3157	B12	3634	F14		
3158	B11	3635	N10		
3170	A12	3636	M 6		
3175	A15	3637	K12		
3195	G11	3638	L12		
3196	H14	4001	N11		
3200	H 7	4005	H 8		

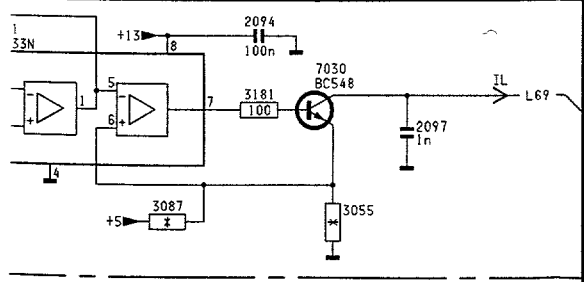
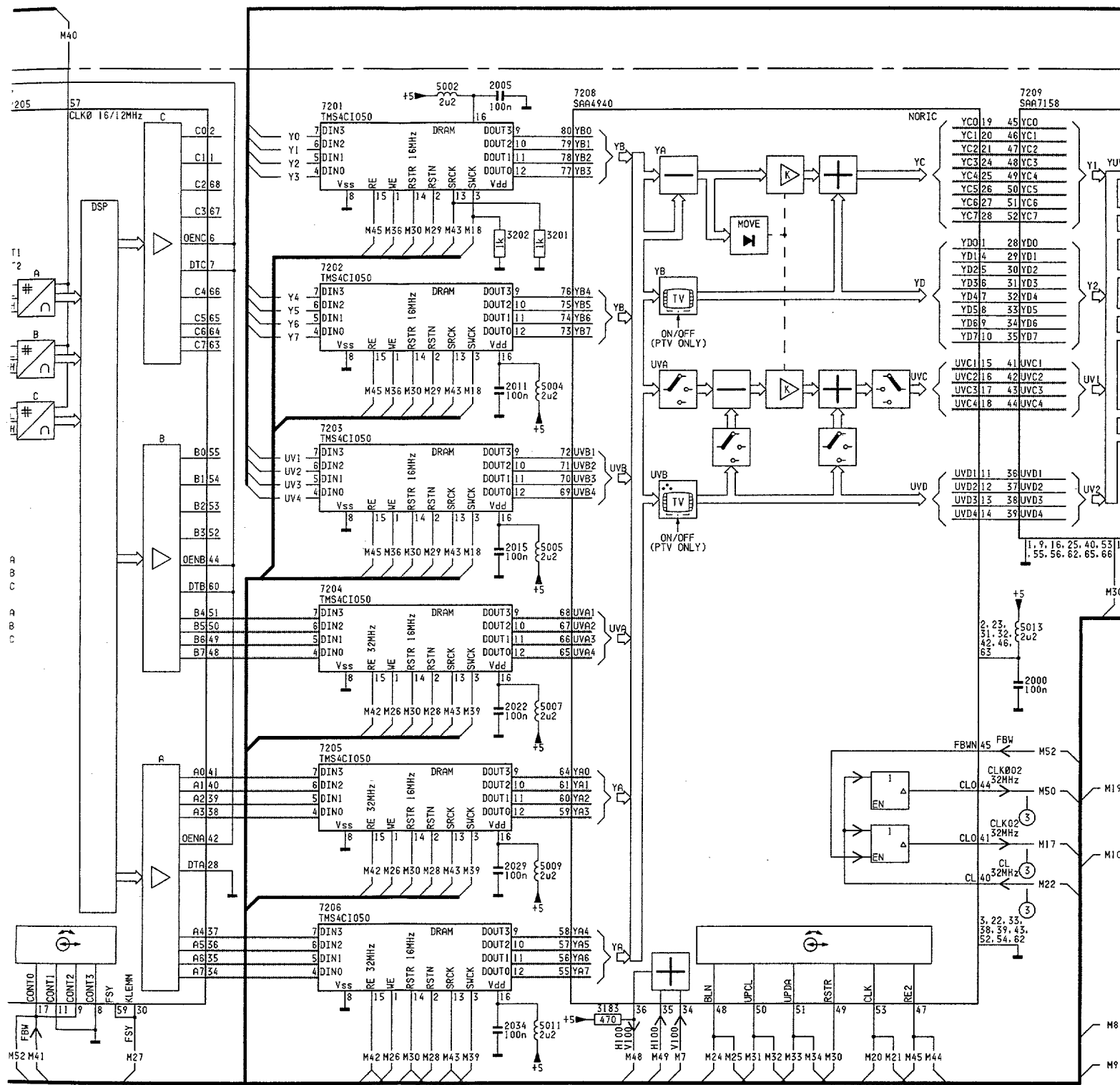
CHASSIS FL  
 CL36532036/020, JREF  
 130593

# LFR box FLx.24/.26 (Digital Scan)



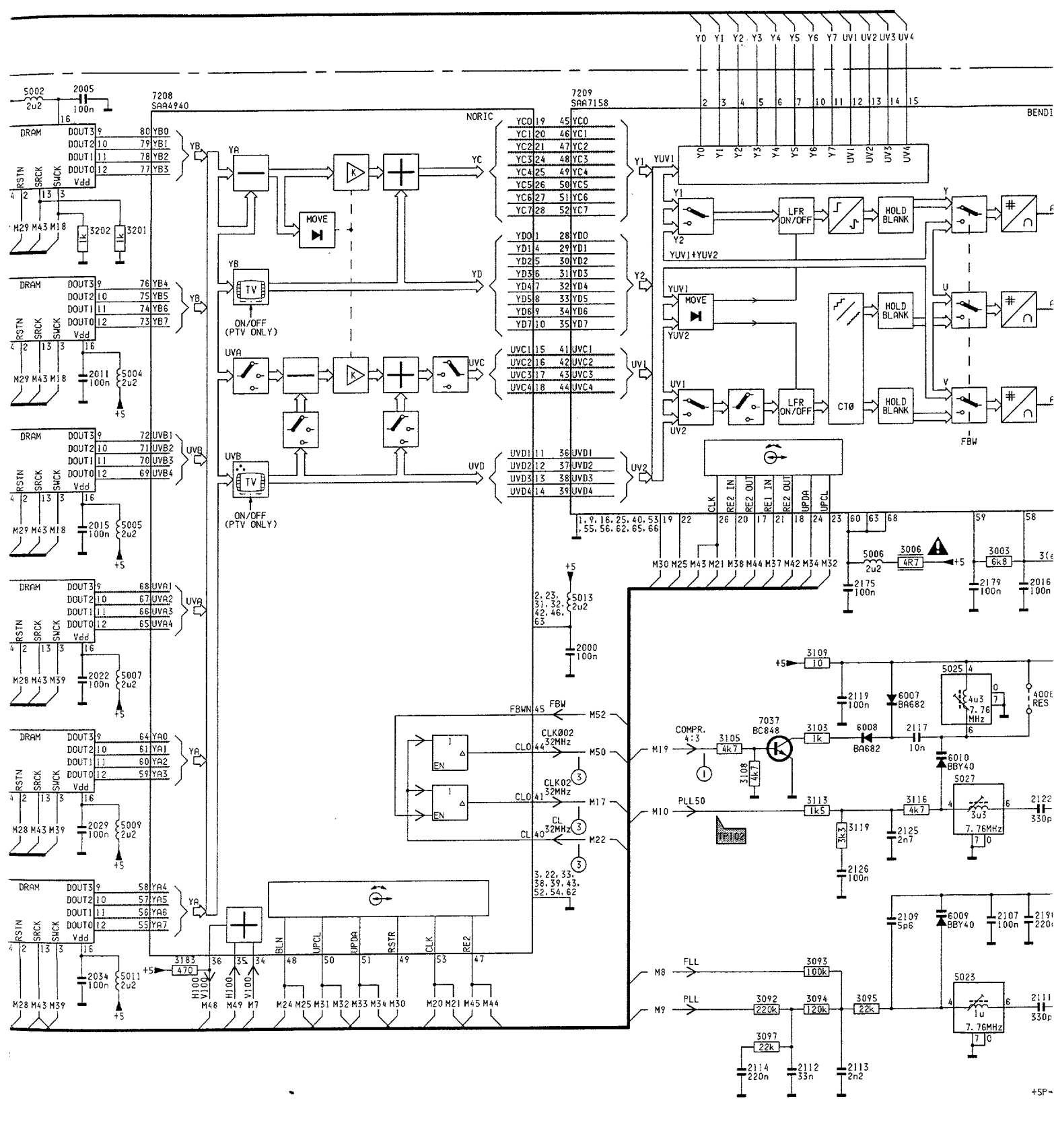
# LFR box FLx.24/.26 (Digital Scan)

11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23



11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

16 17 18 19 20 21 22 23 24 25 26 27

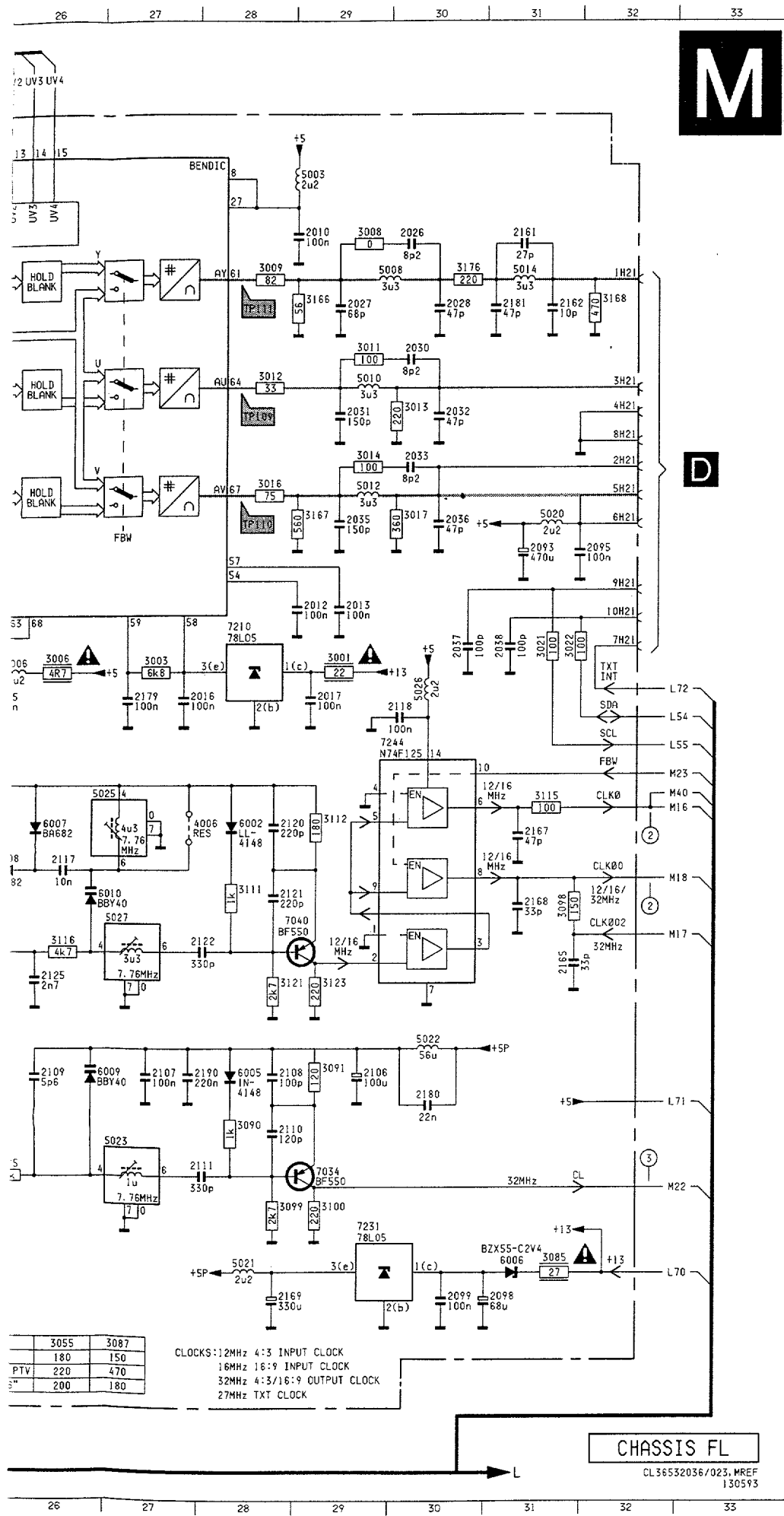


*	3055	3087
4:3	180	150
16:9 & PTV	220	470
16:9 36"	200	180

CLOCKS

16 17 18 19 20 21 22 23 24 25 26 27

# 22 LFR box FLx.24/.26 (Digital Scan)



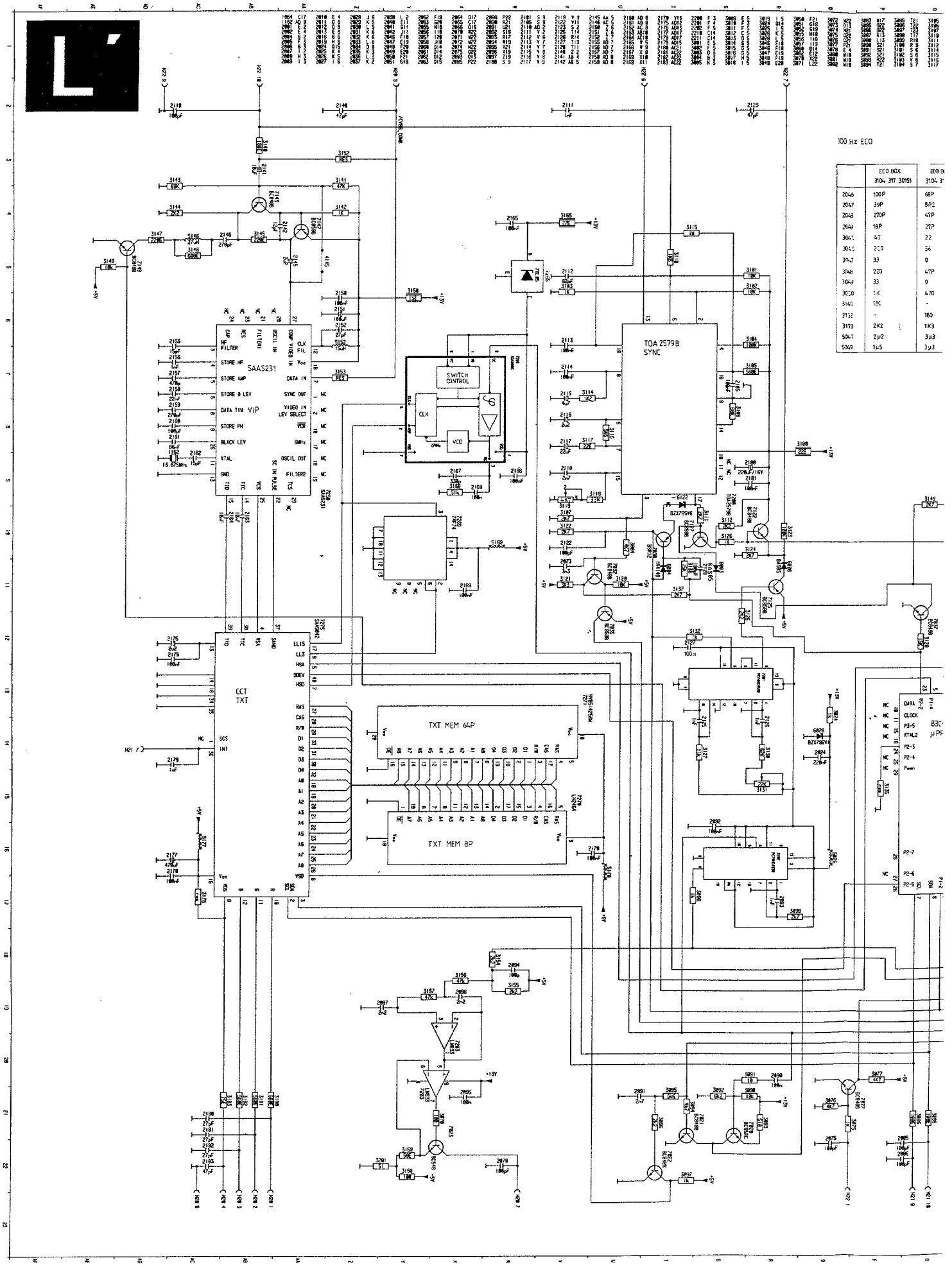
1001	H 2	3021	G31	7026	B 4
2000	H22	3022	G31	7027	M 4
2001	B 9	3055	M13	7029	N 8
2002	B 9	3057	I 2	7030	M13
2003	B 9	3058	I 9	7034	L29
2004	B10	3059	L 2	7035	B 5
2005	B16	3060	I 9	7036	C 5
2006	G 9	3061	M 6	7037	I24
2007	G10	3062	M 8	7038	C 6
2010	C29	3063	M 8	7039	E 5
2011	E16	3064	N 2	7040	J29
2012	F29	3065	N 4	7042	F 5
2013	F29	3066	N 4	7120	H 3
2014	F 8	3067	M 7	7201	B14
2015	G16	3068	B 4	7202	D14
2016	G27	3071	K 9	7203	E14
2017	G29	3074	M 4	7204	G14
2018	F10	3075	C 4	7205	I14
2022	H16	3076	N 3	7206	K14
2023	E 9	3078	M 3	7207	B11
2026	C30	3079	M 2	7208	B17
2027	C29	3082	M 9	7209	B22
2028	C30	3083	M 9	7210	G28
2029	J16	3084	M 9	7219	H 6
2030	D30	3085	H31	7221	M11
2031	D29	3086	N10	7231	M29
2032	D30	3087	N12	7244	H29
2033	E30	3089	B 7		
2034	L16	3090	L28		
2035	F29	3091	K29		
2036	F30	3092	L24		
2037	G30	3093	L25		
2038	G31	3094	L25		
2083	H 4	3095	L25		
2084	H 8	3096	K 6		
2085	I10	3097	M24		
2086	H 2	3098	I31		
2087	I 2	3099	M28		
2088	N 2	3100	M29		
2090	N 9	3101	B 5		
2091	C 3	3102	C 6		
2092	M 2	3103	I25		
2093	F31	3104	C 5		
2094	M13	3105	I24		
2095	F32	3106	D 4		
2096	M10	3107	D 5		
2097	N14	3108	J24		
2098	N31	3109	H25		
2099	N30	3110	D 7		
2102	N10	3111	I28		
2103	B 7	3112	I29		
2105	B 6	3113	J25		
2106	K29	3114	E 4		
2107	K27	3115	H31		
2108	K28	3116	J26		
2109	K26	3118	E 5		
2110	L28	3119	J25		
2111	L28	3120	E 5		
2112	M25	3121	J28		
2113	M25	3123	J29		
2114	M24	3125	F 4		
2115	D 8	3127	G 5		
2116	D 3	3128	G 5		
2117	I26	3163	D 3		
2118	G30	3166	C29		
2119	I25	3167	E29		
2120	I28	3168	C32		
2121	I28	3176	C30		
2122	J28	3181	M13		
2123	D 8	3183	L17		
2124	E 3	3201	C17		
2125	J26	3202	C16		
2126	K25	3203	N 4		
2127	E 8	3228	N 8		
2128	G 3	4006	I27		
2130	E 4	5000	G 9		
2131	E 4	5001	B 8		
2132	D 4	5002	B16		
2133	D 4	5003	B29		
2134	G 4	5004	E17		
2136	F 4	5005	G17		
2150	F 7	5006	G26		
2151	E10	5007	H17		
2152	B 6	5008	C29		
2161	C31	5009	J17		
2162	C31	5010	D29		
2163	M 7	5011	L17		
2164	M 7	5012	E29		
2165	J31	5013	G22		
2166	L 6	5014	C31		
2167	I31	5020	E31		
2169	N28	5021	M28		
2170	C 5	5022	K30		
2175	G25	5023	L27		
2179	G27	5025	H26		
2180	K30	5026	G30		
2181	C31	5027	J27		
2185	E 9	5030	C 4		
2186	F 9	5031	E 4		
2187	B 8	5032	F 4		
2190	K27	5033	N 8		
3000	F 9	6000	F 8		
3001	G29	6002	I28		
3002	G 8	6004	M 4		
3003	G27	6006	H31		
3004	N 7	6007	I26		
3006	G26	6008	I25		
3007	E 9	6009	K26		
3008	C29	6010	I26		
3009	C28	6013	M 4		
3011	D29	6014	N 4		
3012	D28	7000	F 9		
3013	D30	7022	I 9		
3014	E29	7023	M 8		
3016	E28	7024	N 3		
3017	E30	7025	N 3		

3055	3087
180	150
PTV	220
5"	200
	180

CLOCKS: 12MHz 4:3 INPUT CLOCK  
 16MHz 16:9 INPUT CLOCK  
 32MHz 4:3/16:9 OUTPUT CLOCK  
 27MHz TXT CLOCK

CHASSIS FL  
 CL36532036/023, MREF  
 130593

# 100 Hz / TXT (FLx.27)



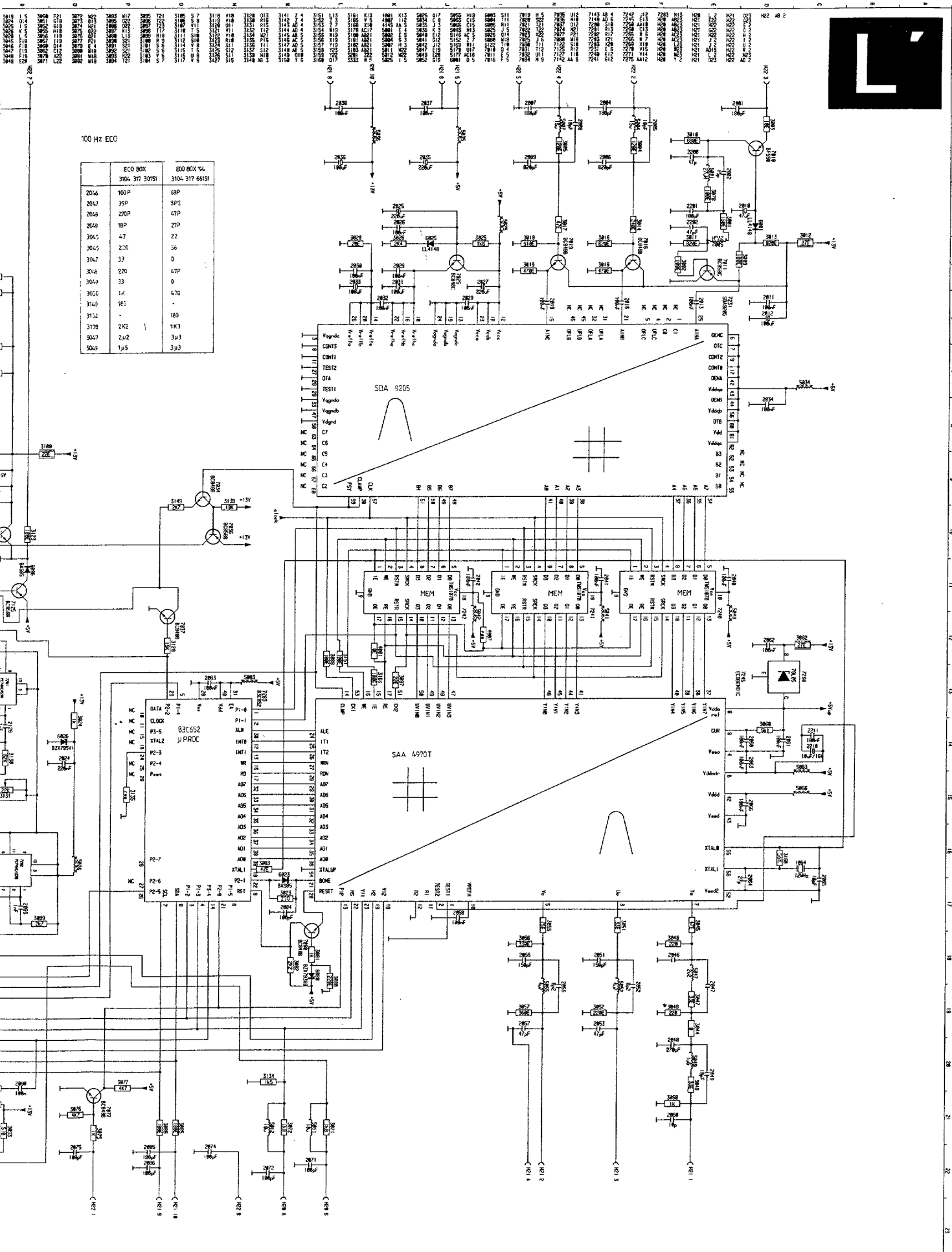
100 Hz ECO

ECO BK	ECO BOX	ECO BK
3104	100P	58P
3105	100P	59P
3106	100P	60P
3107	100P	61P
3108	100P	62P
3109	100P	63P
3110	100P	64P
3111	100P	65P
3112	100P	66P
3113	100P	67P
3114	100P	68P
3115	100P	69P
3116	100P	70P
3117	100P	71P
3118	100P	72P
3119	100P	73P
3120	100P	74P
3121	100P	75P
3122	100P	76P
3123	100P	77P
3124	100P	78P
3125	100P	79P
3126	100P	80P
3127	100P	81P
3128	100P	82P
3129	100P	83P
3130	100P	84P
3131	100P	85P
3132	100P	86P
3133	100P	87P
3134	100P	88P
3135	100P	89P
3136	100P	90P
3137	100P	91P
3138	100P	92P
3139	100P	93P
3140	100P	94P
3141	100P	95P
3142	100P	96P
3143	100P	97P
3144	100P	98P
3145	100P	99P
3146	100P	100P

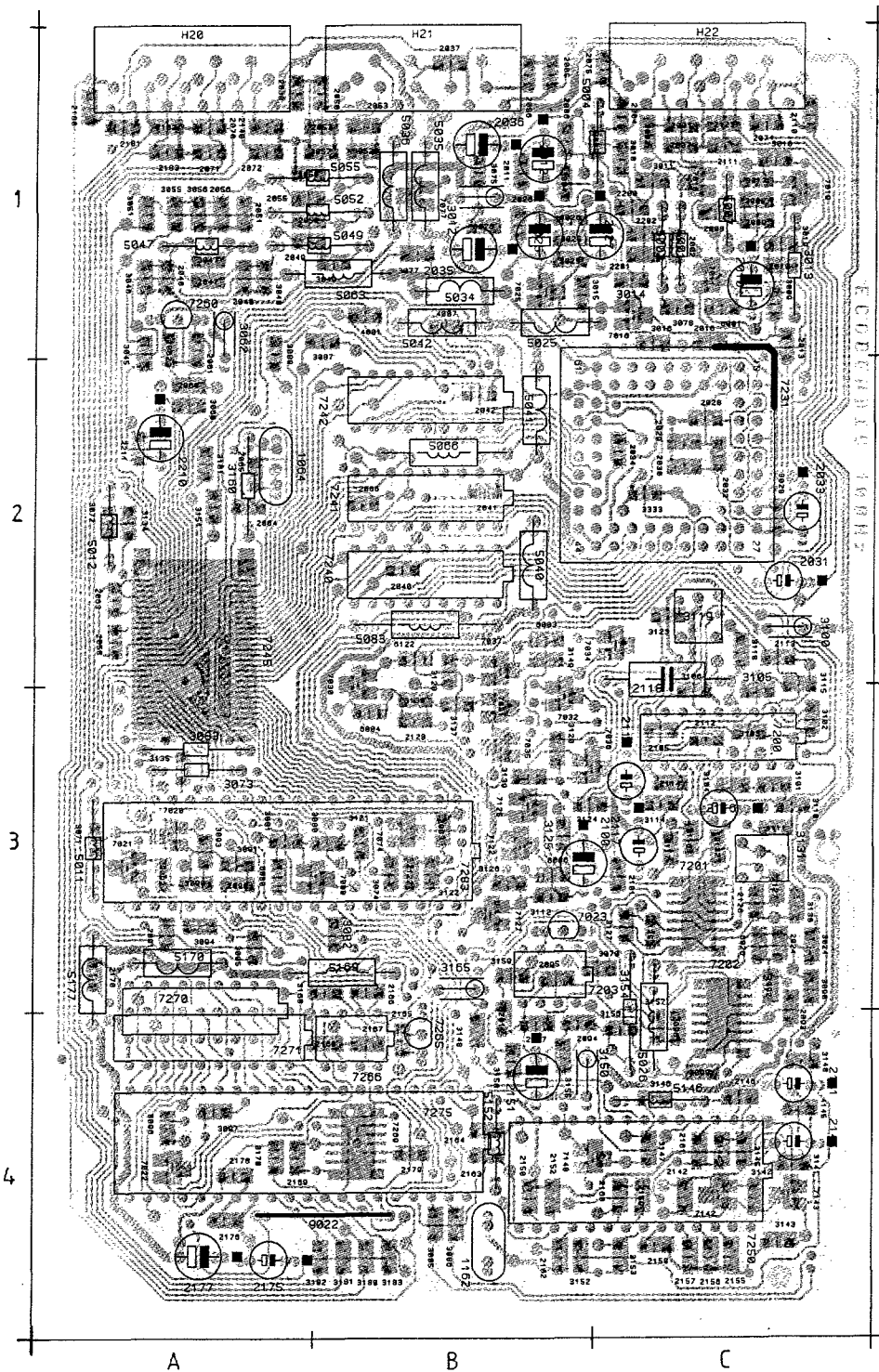


100 Hz ECO

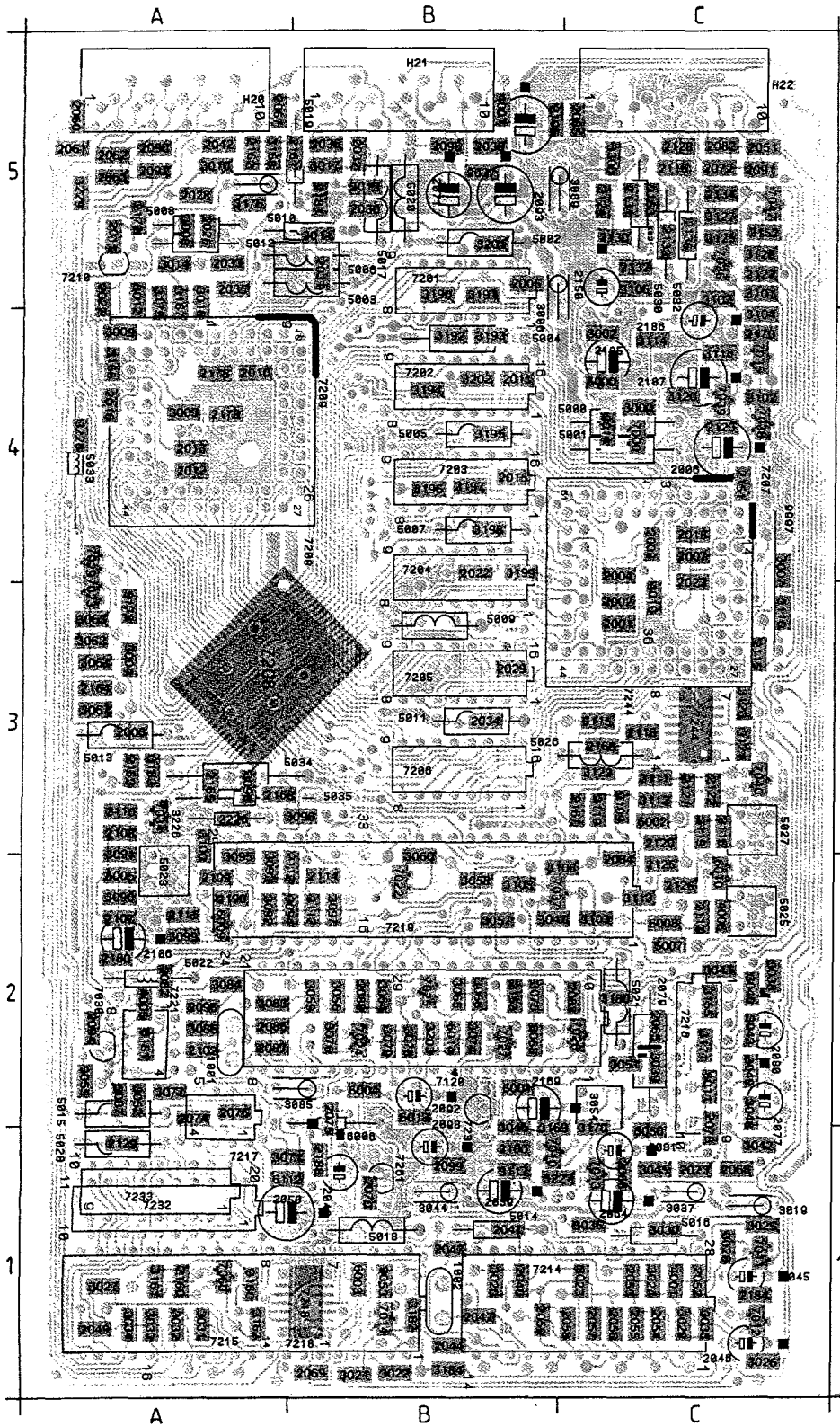
3104.317.65151	80X BOX	68P
2046	100P	5P2
2047	35P	47P
2048	27P	27P
2049	18P	22
3045	47	33
3047	270	36
3048	220	47P
3049	33	0
3050	165	470
3140	165	0
3142	165	180
3178	2K2	1K3
3557	242	343
3569	1.5	343



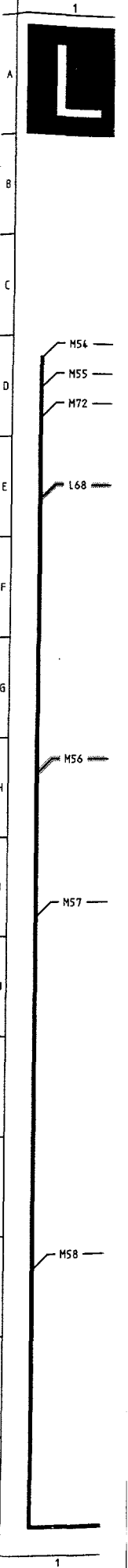




H20 A1	2013 C1	2037 B1	2058 A2	2090 A3	2115 C3	2151 B4	2169 A4	3004 B1	3028 C2	3159 B3
H21 B1	2016 C1	2038 A1	2060 A2	2091 A3	2116 C3	2152 B4	2170 A3	3005 C1	3045 A1	3160 A2
H22 C1	2019 C1	2040 B2	2061 A1	2092 C3	2117 C3	2155 C4	2175 A4	3009 C1	3046 A1	3161 A2
1064 A2	2024 C3	2041 B2	2062 A1	2093 C3	2118 C2	2156 C4	2176 A4	3010 C1	3047 A1	3165 B3
1162 B4	2025 B1	2042 B2	2063 A2	2094 B4	2122 B3	2157 C4	2177 A4	3011 C1	3048 A1	3168 B3
2001 C1	2026 B1	2046 A1	2064 A2	2095 B3	2123 C1	2158 C4	2178 A4	3012 B1	3049 B1	3178 A4
2002 C1	2027 C1	2047 A1	2065 A2	2096 C4	2125 C3	2159 C4	2179 B4	3013 C1	3050 A1	3180 B4
2004 C1	2028 C2	2048 A1	2066 B2	2097 B4	2126 C3	2160 C4	2181 A1	3014 C1	3051 A1	3181 B4
2005 C1	2029 C2	2049 A1	2070 A1	2100 B3	2127 C3	2161 C4	2182 A1	3015 B1	3052 B1	3182 B4
2006 B1	2030 C2	2050 B1	2071 A1	2101 C3	2128 B3	2162 B4	2183 A1	3016 C1	3055 A1	3183 B4
2007 C1	2031 C2	2051 A1	2072 A1	2105 C3	2130 C1	2163 B4	2200 C1	3017 C1	3056 A1	3201 B4
2008 C1	2032 C2	2052 A1	2074 C1	2110 C1	2141 C4	2164 B4	2201 C1	3018 C1	3057 B1	3333 C2
2009 C1	2033 C2	2053 B1	2075 C1	2111 C1	2142 C4	2165 B4	2202 C1	3019 C1	3060 A2	4001 B1
2010 C1	2034 C2	2055 A1	2083 B3	2112 C3	2145 C4	2166 B3	2210 A2	3024 C3	3062 A1	4007 B1
2011 B1	2035 B1	2056 A1	2085 B1	2113 C2	2146 C4	2167 B4	2211 A2	3025 B1	3070 C3	4145 C4
2012 B1	2036 B1	2057 B1	2086 B1	2114 C3	2150 B4	2168 B4	3003 C1	3026 B1	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
									3143 C4	7203 B3
									3144 C4	7231 C2
									3145 C4	7240 B2
									3146 C4	7241 B2
									3147 C4	7242 B2
									3148 B4	7245 A2
									3149 B2	7250 C4
									3150 B4	7260 A1
									3151 A2	7265 B4
									3152 B4	7266 B4
									3153 C4	7269 B4
									3154 C4	7270 A3
									3155 B4	7271 A4
									3156 C4	7275 A4
									3157 C4	7283 A3
									3158 B4	9022 B4



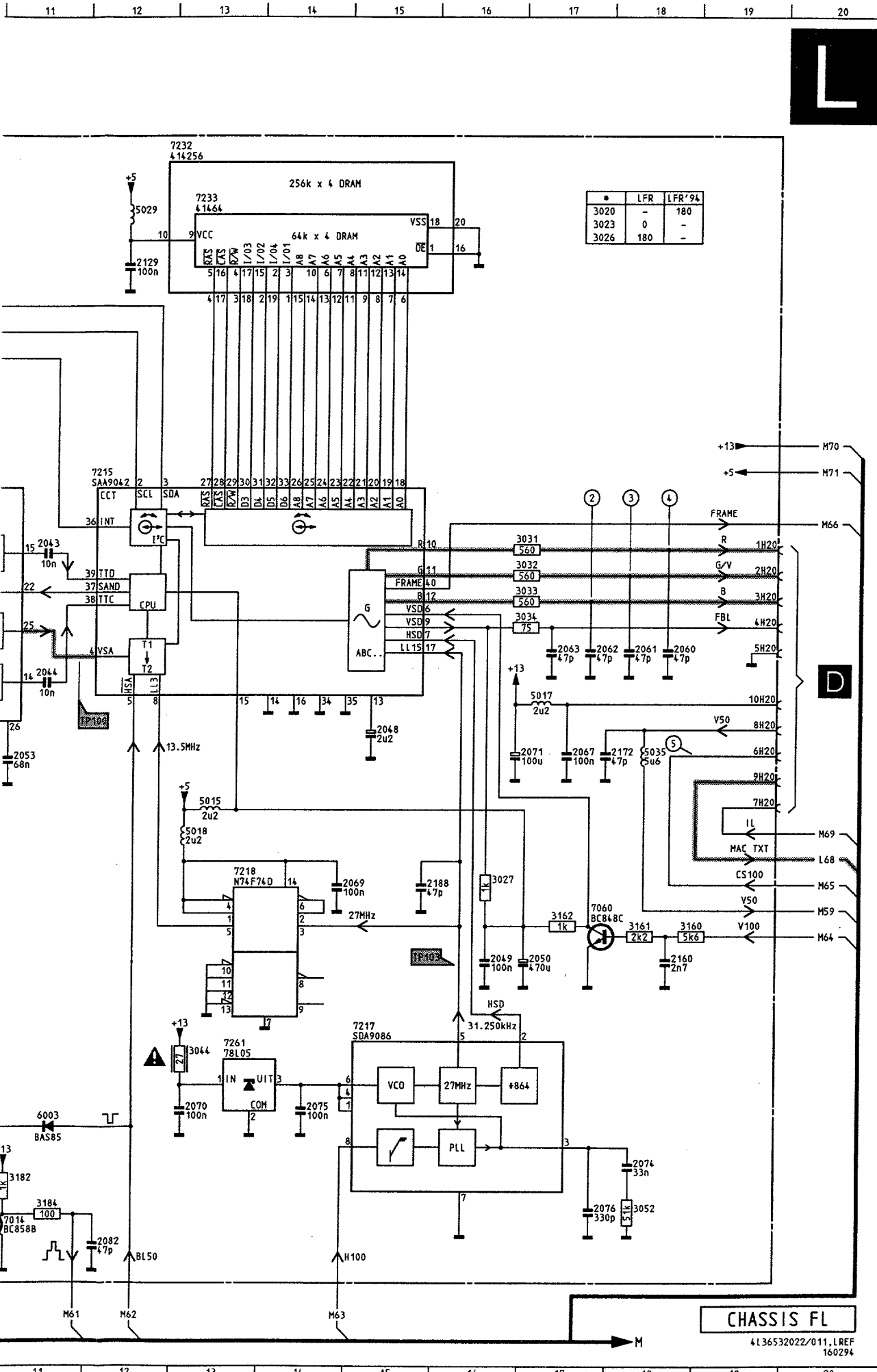
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2172 A5	3093 A2	5019 B5
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2179 A4	3095 A2	5021 C2
2180 A2	3096 B3	5022 A2
2181 B5	3097 B2	5023 A2
2184 C1	3098 A3	5025 C2
2185 C4	3099 A2	5026 C3
2186 C4	3100 A3	5027 C3
2187 C4	3101 C5	5028 A1
2188 B1	3102 C4	5030 C5
2190 A2	3103 C2	5031 C5
2226 A3	3104 C4	5032 C5
3000 C4	3105 B2	5033 A4
3001 A5	3106 C5	5034 A3
3002 C4	3107 C5	5035 A3
3003 A4	3108 B2	6000 C4
3004 A3	3109 C3	6001 B2
3006 B5	3110 C3	6002 C3
3007 C4	3111 C3	6003 B1
3008 A5	3112 C3	6004 B2
3009 A4	3113 C2	6005 A2
3010 A5	3114 C4	6006 B2
3011 B5	3115 C3	6007 C2
3012 A5	3116 C3	6008 C2
3013 B5	3117 B1	6009 A2
3014 A5	3118 C4	6010 C2
3016 A5	3119 C3	6011 C2
3017 B5	3120 C4	6013 B2
3019 C1	3121 C3	6014 B2
3020 B1	3122 C3	6112 A1
3021 B1	3123 C3	7000 C4
3022 B1	3125 C5	7010 B1
3023 C1	3127 C5	7011 C1
3024 C1	3128 C5	7012 C1
3025 C1	3155 C2	7013 C1
3026 C1	3160 A1	7014 B1
3027 A1	3161 A1	7022 B2
3028 C1	3162 A1	7023 A3
3029 C1	3163 C5	7024 B2
3030 C1	3166 A4	7025 B2
3031 A1	3167 A5	7026 C2
3032 A1	3168 A5	7027 B2
3033 A1	3169 B1	7029 A4
3034 A1	3170 C1	7030 A2
3035 C1	3171 C2	7034 A3
3036 C1	3172 A3	7035 C4
3037 C1	3175 A5	7036 C5
3038 C2	3176 A5	7037 B2
3039 C2	3180 C2	7038 C4
3040 C2	3181 A2	7039 C4
3041 C2	3182 B1	7040 C3
3042 C1	3183 A3	7042 C5
3043 C2	3184 B1	7060 A1
3044 B1	3190 B5	7120 B2
3045 C1	3191 B5	7201 B5
3046 B1	3192 B4	7202 B4
3047 B2	3193 B4	7203 B4
3048 C2	3194 B4	7204 B4
3049 C2	3195 B4	7205 B3
3050 C1	3196 B4	7206 B3
3051 C2	3197 B4	7207 C4
3052 A2	3198 B4	7208 A3
3053 B1	3199 B4	7209 A4
3054 C2	3201 B5	7210 A5
3055 A2	3202 B4	7214 C1
3056 B2	3203 B2	7215 A1
3057 B2	3226 A3	7216 C2
3058 B2	3227 B1	7217 A2
3059 B2	3228 A4	7218 B1
3060 B2	3229 A5	7219 B2
3061 A3	3300 C5	7221 A2
3062 A3	4001 C1	7231 B2
3063 A3	4005 A2	7232 A1
3064 B2	4006 C2	7233 A1
3065 B2	4007 B5	7244 C3
3066 B2	4010 C3	7261 B1
3067 A3	5000 C4	9997 C4
3068 B2	5001 C4	
3071 A1	5002 B5	
3074 B2	5003 B5	
3075 B2	5004 B4	
3076 B2	5005 B4	
3077 A2	5006 B5	
3078 B2	5007 B4	
3079 B2	5008 A5	
3082 A2	5009 B3	
3083 A2	5010 B5	
3084 A2	5011 B3	
3085 B2	5012 A5	
3086 A2	5013 A3	
3087 A2	5014 B1	
3089 B5	5015 A2	
3090 A2	5016 C1	
3091 A3	5017 B5	



H20 A5	2013 A4	2034 B3	2050 A1	2067 A5	2083 C2	2100 B1	2118 C3	2134 C5
H21 B5	2014 C4	2035 A5	2051 C5	2068 C1	2084 C2	2102 A2	2119 C3	2136 C5
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1002 B1	2017 A5	2038 B5	2054 C1	2071 B5	2087 A2	2106 A2	2122 C3	2152 C5
2000 A3	2018 C4	2039 B1	2055 C1	2072 C5	2088 B2	2107 A2	2123 C4	2153 B2
2001 C3	2022 B4	2040 B1	2056 C1	2073 C1	2090 A5	2108 A3	2124 C5	2160 A1
2002 C3	2023 C4	2041 B1	2057 C1	2074 A2	2091 C5	2109 A2	2125 C2	2161 A5
2003 C4	2026 A5	2042 A5	2058 C1	2075 B2	2092 B2	2110 A3	2126 C2	2162 A5
2004 C4	2027 A5	2043 B1	2059 B1	2076 A2	2093 B5	2111 A2	2127 C5	2163 A3
2005 B5	2028 A5	2044 B1	2060 A5	2077 C2	2094 A2	2112 B2	2128 C5	2164 A3
2006 C4	2029 B3	2045 C1	2062 A5	2078 C1	2095 B5	2113 A2	2129 A1	2165 A3
2007 C4	2030 B5	2046 C1	2063 A5	2079 C2	2096 A2	2114 B2	2130 C5	2166 A3
2010 A4	2031 B5	2047 B1	2064 C1	2080 C2	2097 A5	2115 C3	2131 C5	2167 C3
2011 B4	2032 B5	2048 B1	2065 C2	2081 C1	2098 B1	2116 C5	2132 C5	2168 C3
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# LFR box (Digital Scan)



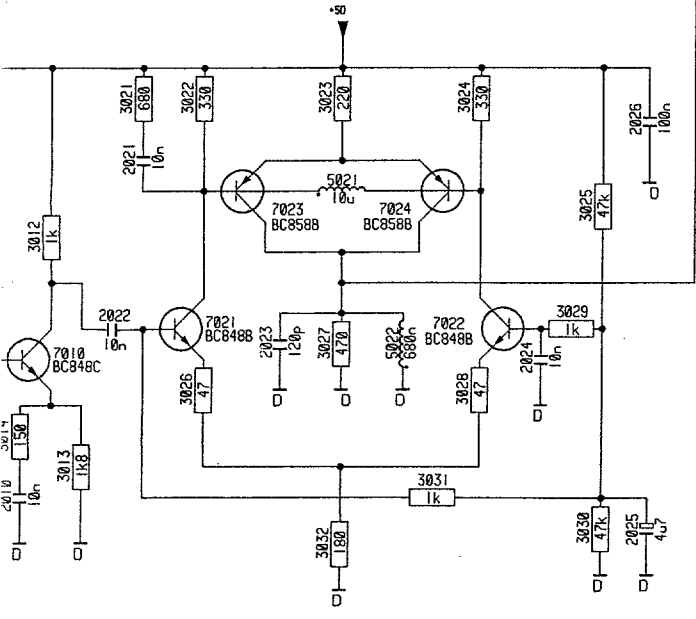
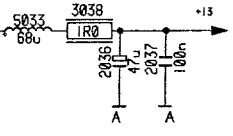
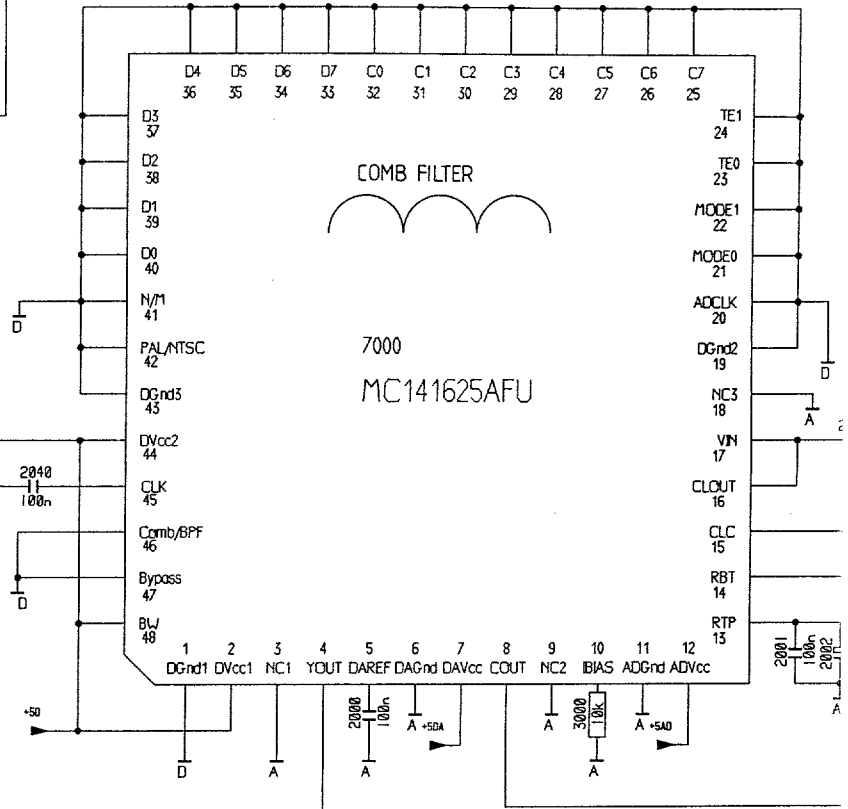
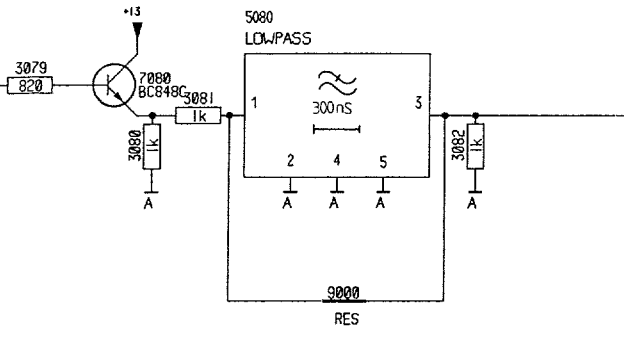
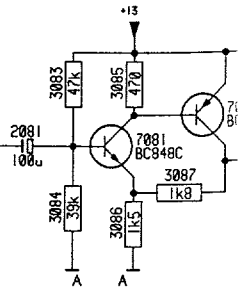
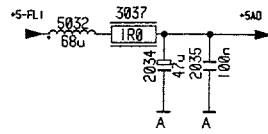
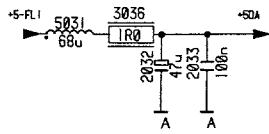
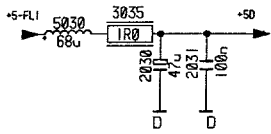
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3020	-
3023	0
3026	180

- 1002 I 9 7217 L15
- 2039 G 5 7218 J13
- 2040 G 6 7232 B12
- 2041 I 10 7233 B13
- 2042 E 9 7261 L13
- A 2043 F11
- 2044 H11
- 2045 H 5
- 2046 H 3
- 2047 I 9
- 2048 H15
- 2049 K16
- 2050 K17
- B 2051 I 3
- 2052 H 5
- 2053 I11
- 2054 I 6
- 2055 I 7
- 2056 I 7
- 2057 I 8
- C 2058 I 8
- 2059 I 9
- 2060 H18
- 2061 H18
- 2062 H17
- 2063 H17
- 2064 N 4
- D 2065 N 5
- 2066 K 8
- 2067 I17
- 2068 N 4
- 2069 J14
- 2070 H13
- 2071 I16
- 2072 M 2
- E 2073 L 3
- 2074 M18
- 2075 M14
- 2076 N17
- 2077 K 4
- 2078 K 6
- F 2079 J 7
- 2080 J 4
- 2081 K 5
- 2082 N12
- 2129 C12
- 2153 N 8
- 2160 K18
- 2172 I18
- 2184 H 4
- G 2188 J15
- 3019 G 5
- 3020 E 4
- 3023 E 8
- 3024 G 4
- 3025 G 4
- 3026 H 2
- H 3027 J16
- 3028 H 4
- 3029 I 4
- 3030 H 5
- 3031 F17
- 3032 G17
- 3033 G17
- 3034 G17
- I 3035 I 4
- 3036 I 6
- 3037 N 4
- 3038 N 8
- 3039 N 7
- 3040 M 3
- 3041 N 4
- J 3042 N 8
- 3043 K 3
- 3044 L13
- 3045 L 3
- 3046 N 9
- 3047 N 6
- 3048 K 5
- K 3049 J 5
- 3050 K 5
- 3051 J 7
- 3052 N18
- 3053 M10
- 3054 K 7
- 3117 M10
- 3155 N 4
- L 3160 K18
- 3161 K18
- 3162 K17
- 3169 I 5
- 3170 I 6
- 3171 J 4
- 3180 N 6
- 3182 M11
- M 3184 M11
- 3227 H 9
- 4001 G 3
- 5014 I 9
- 5015 I13
- 5016 H 5
- 5017 H17
- 5018 J13
- N 5035 I18
- 6001 N 9
- 6003 M11
- 6011 J 5
- 7010 I 5
- 7011 G 4
- 7012 H 4
- 7013 M10
- O 7014 N11
- 7060 J17
- 7214 F 6
- 7215 F12
- 7216 K 4

CHASSIS FL  
4L36532022/011, L REF  
160294

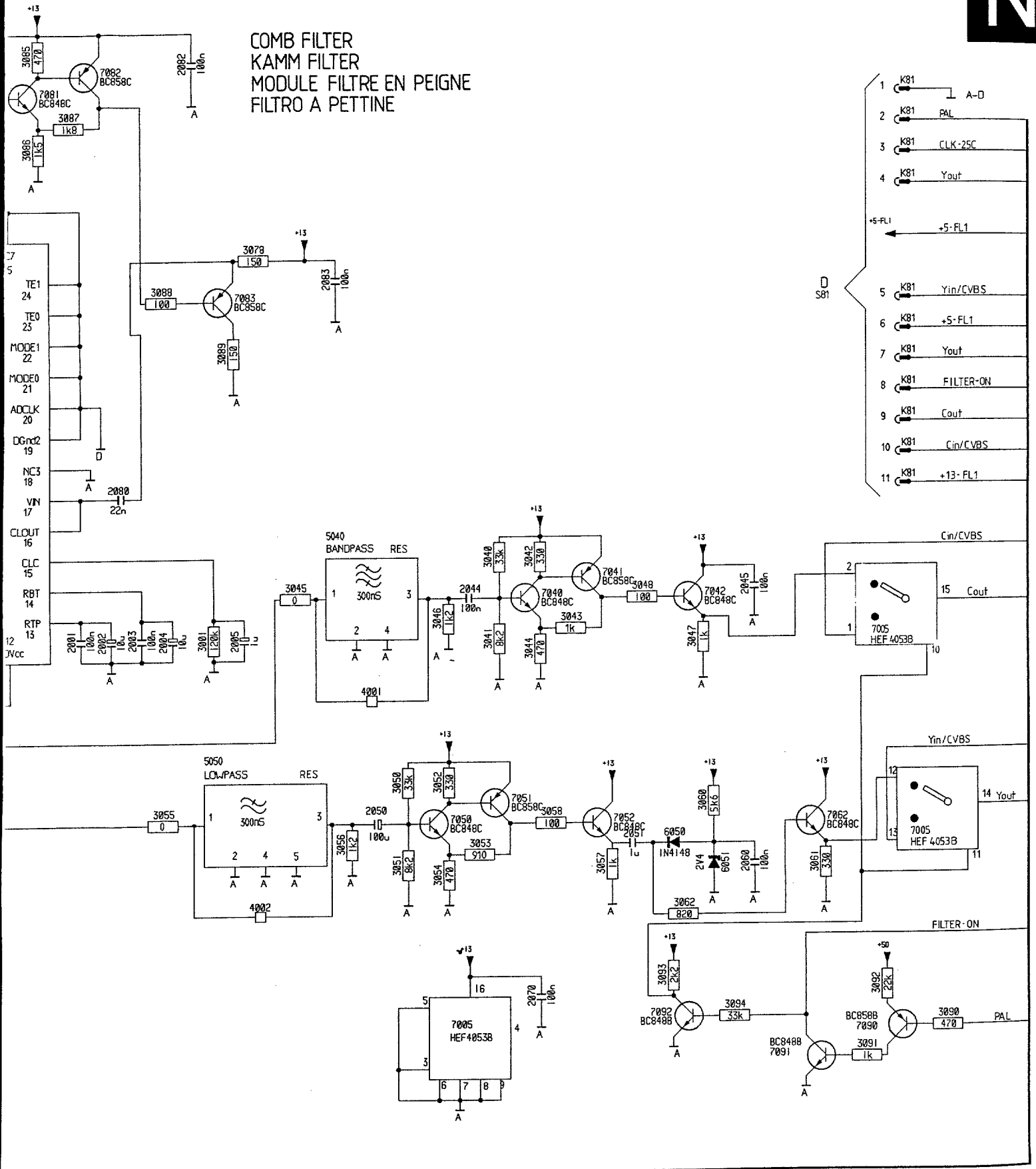


# Comb filter / Kamm-Filter / Filtre en peigne





COMB FILTER  
KAMM FILTER  
MODULE FILTRE EN PEIGNE  
FILTRO A PETTINE



- 1 K81 A-D
- 2 K81 PAL
- 3 K81 CLK-25C
- 4 K81 Yout
- +5-FL1
- 5 K81 Yin/CVBS
- 6 K81 +5-FL1
- 7 K81 Yout
- 8 K81 FILTER-ON
- 9 K81 Cout
- 10 K81 Cin/CVBS
- 11 K81 +13-FL1



- A-D

< 25C

out

FL1

n/CVBS

5-FL1

out

FILTER-ON

out

in/CVBS

13-FL1

in/CVBS

5 Cout

7CVBS

14 Yout

53B

LTER-ON

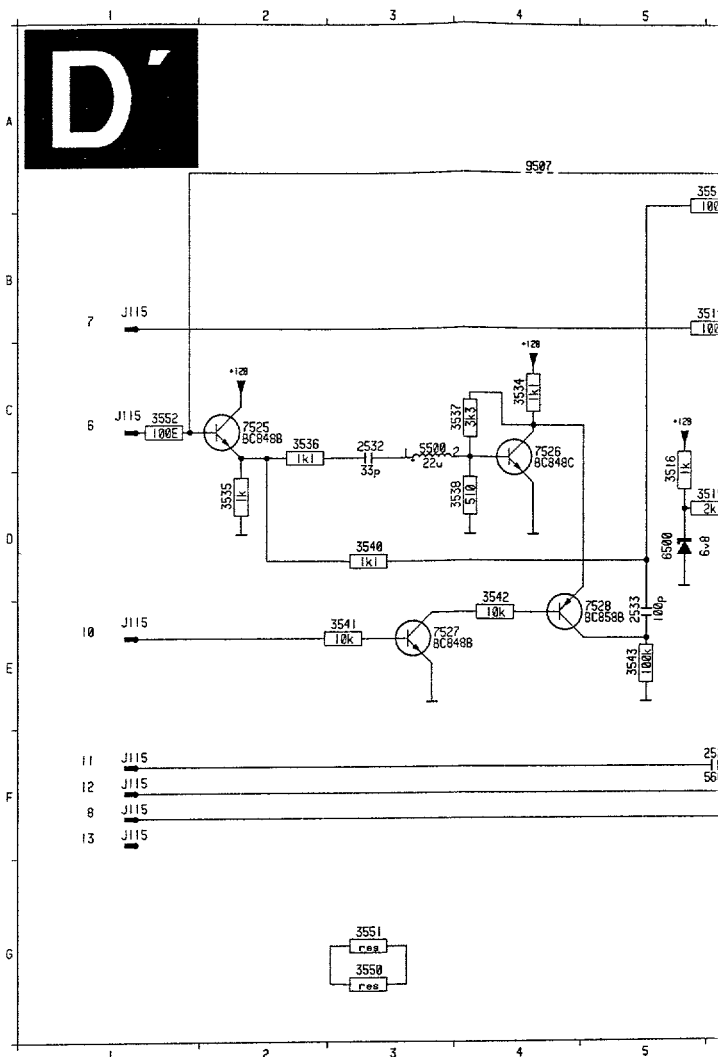
3090 PAL

470

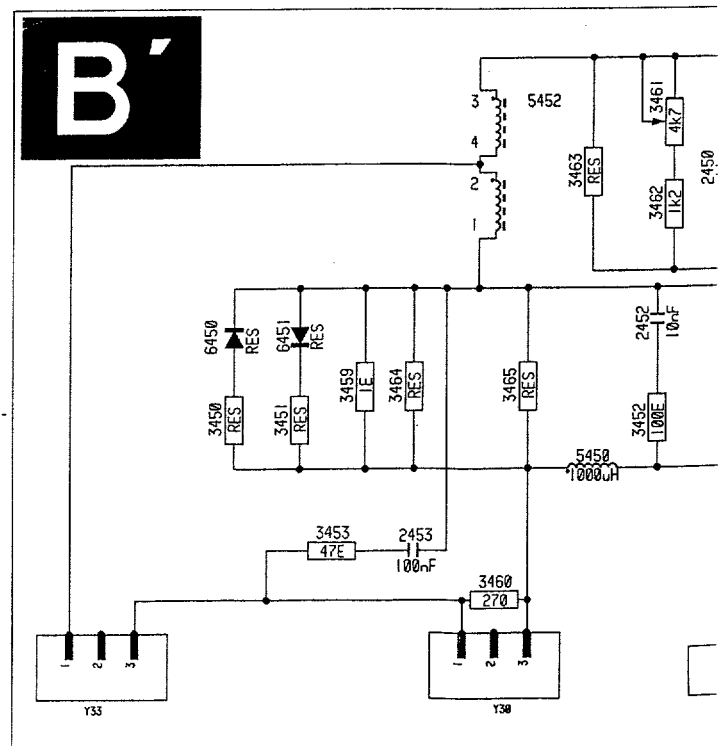
2000	G 8	KB1	B19
2001	G11	KB1	B19
2002	G11	KB1	C19
2003	G12	KB1	D19
2004	G12	KB1	D19
2005	G13	KB1	D19
2006	F 5	KB1	E19
2010	K 1	KB1	E19
2021	I 2	KB1	E19
2022	J 2	KB1	E19
2023	J 3		
2024	K 1		
2025	I 4		
2030	A 3		
2031	A 3		
2032	A 6		
2033	A 6		
2034	A 8		
2035	A 9		
2036	F 2		
2037	F 3		
2038	B18		
2040	F 6		
2044	G15		
2045	G18		
2050	I14		
2051	I16		
2060	I18		
2070	K16		
2080	F11		
2081	B10		
2082	A12		
2085	D14		
3000	G10		
3001	G12		
3011	I 1		
3012	I 1		
3013	K 2		
3014	K 1		
3021	I 2		
3022	I 3		
3023	I 3		
3024	I 4		
3025	I 5		
3026	J 2		
3027	J 3		
3028	J 4		
3029	J 5		
3030	K 5		
3031	K 4		
3032	K 3		
3035	A 6		
3036	A 8		
3037	A 8		
3038	F 2		
3040	F15		
3041	G15		
3042	F15		
3043	G16		
3044	G15		
3045	G13		
3046	G15		
3047	G17		
3048	G17		
3050	H14		
3051	I14		
3052	H15		
3053	I15		
3054	I15		
3055	I12		
3056	I14		
3057	I16		
3058	I19		
3060	I17		
3061	I18		
3062	J17		
3078	C13		
3079	C 2		
3080	D 3		
3081	C 3		
3082	D 5		
3083	A10		
3084	B10		
3085	A11		
3086	B11		
3087	B11		
3088	D12		
3089	D12		
3090	K20		
3091	K19		
3092	J19		
3093	J17		
3094	K17		
4001	H14		
4002	J13		
5021	I 3		
5022	J 4		
5030	A 3		
5031	A 5		
5032	A 8		
5033	F 2		
5040	F 3		
5050	H12		
5080	C 5		
6050	I17		
6051	I17		
7000	E 8		
7005	K15		
7005	G19		
7005	I19		
7010	J 2		
7021	J 3		
7022	J 4		
7023	I 3		
7024	I 4		
7040	G16		
7041	F16		
7042	G17		
7050	I15		
7051	I15		
7052	I16		
7062	I18		
7080	C 3		
7081	B11		
7082	B11		
7083	D13		
7090	K19		
7091	K18		
7092	K17		
9000	E 4		
KB1	B19		



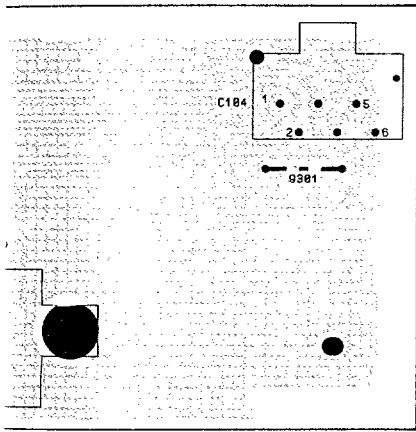
# Black stretch



# North-South (only 29")

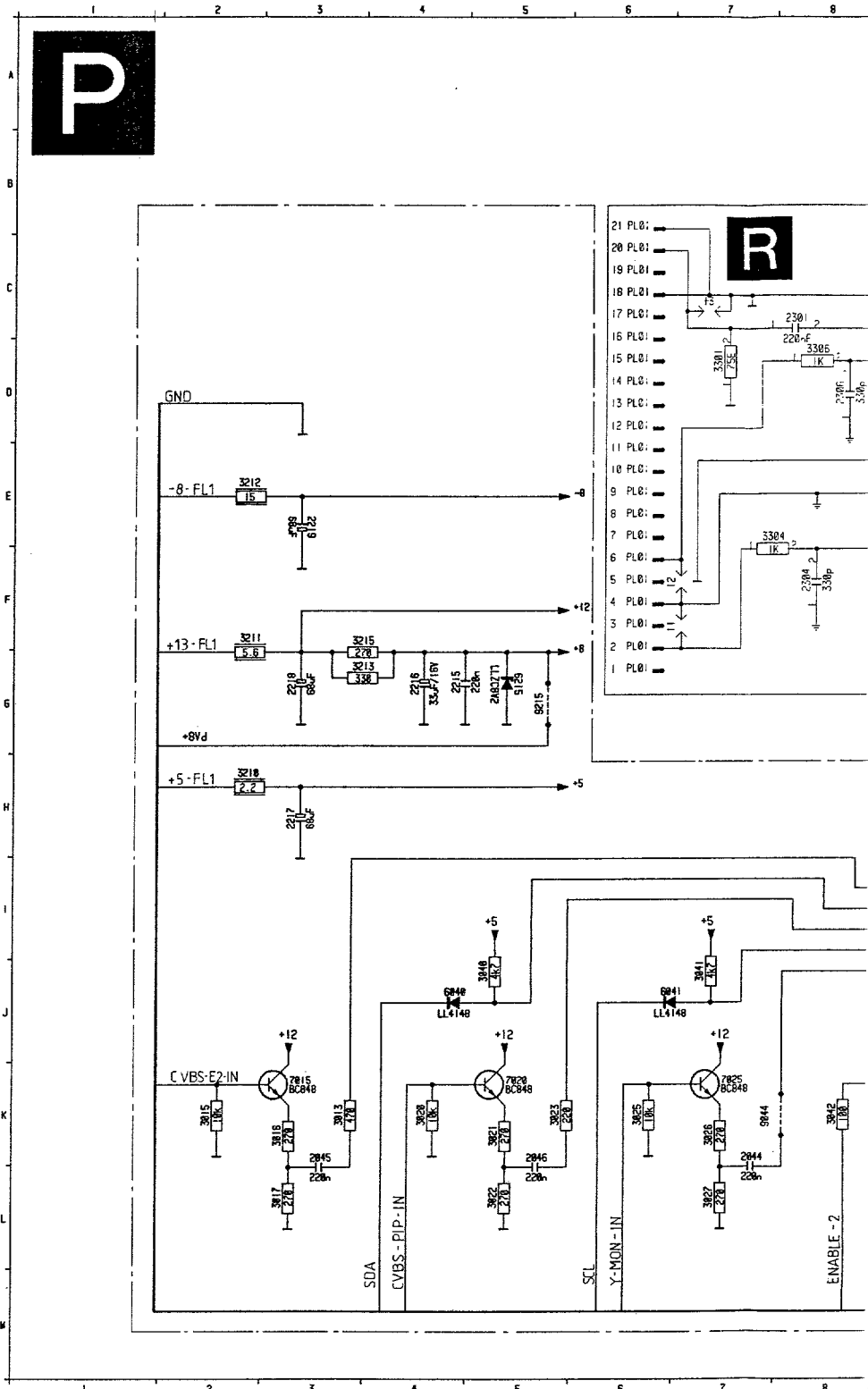
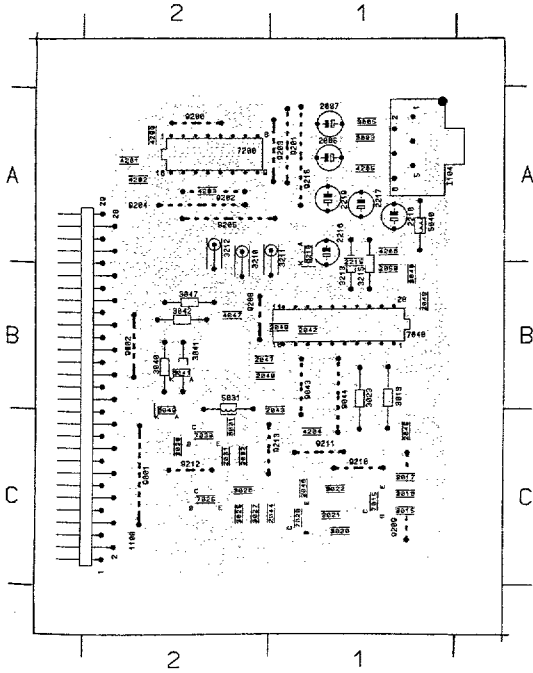






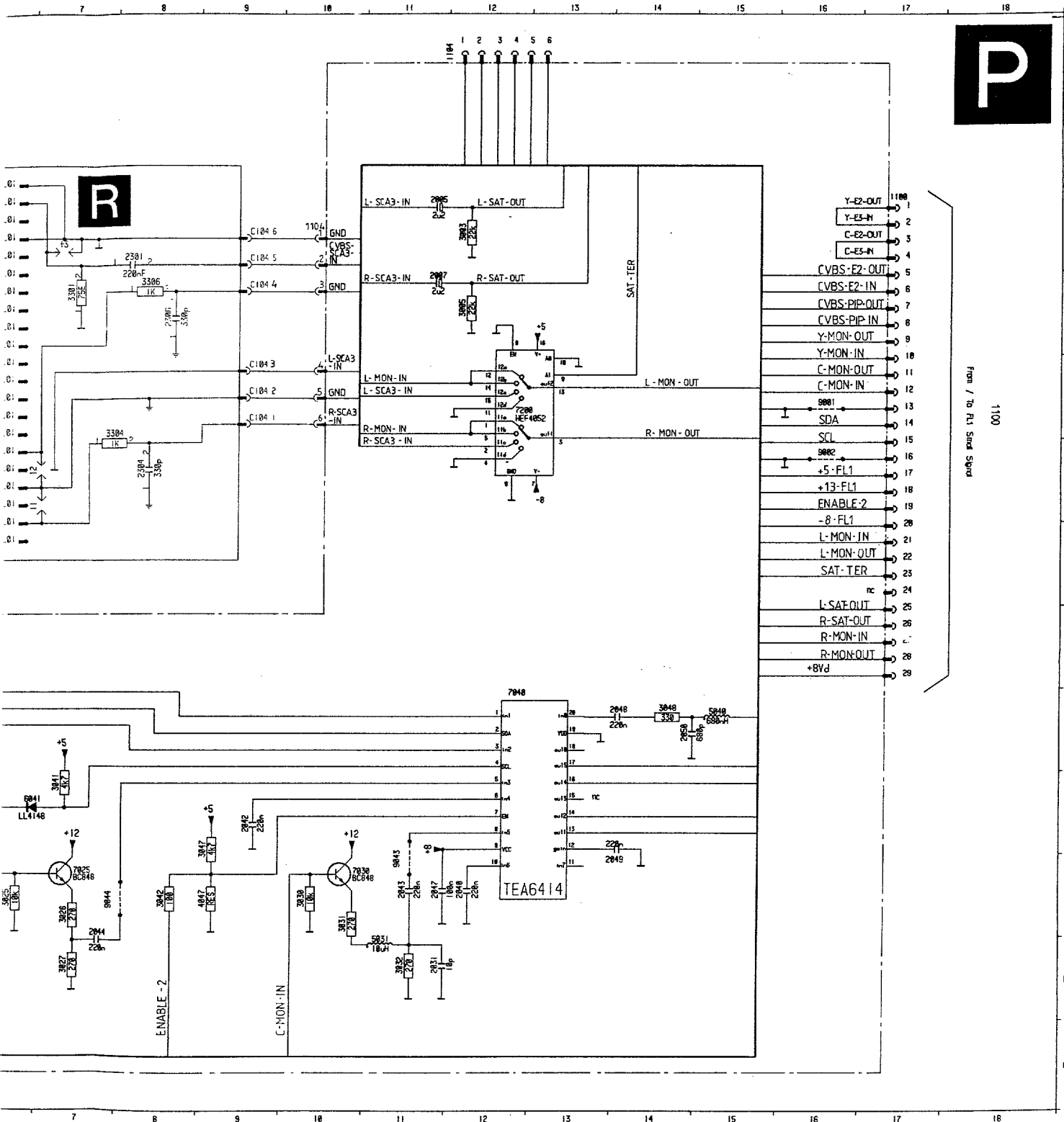
Euro AV3 Interface

1100 C 2	2045 C 1	2215 A 1	3022 C 1	3041 B 2	4847 B 2	5440 A 1	7206 A 2	0204 A 2	3104 A 1
2085 A 1	2047 B 2	3003 A 1	3023 C 1	3042 B 2	4200 A 2	6040 B 2	9001 C 2	0205 A 1	
2097 A 1	2046 B 1	3005 A 1	3026 C 2	3043 B 2	4201 A 2	6041 B 2	9002 B 2	0206 B 2	
2081 C 2	2049 B 1	3015 C 1	3026 C 2	3046 B 1	4202 A 2	6075 A 1	9073 C 1	0205 C 1	
2040 B 2	2050 B 1	3015 C 1	3027 C 2	3070 A 2	4203 A 2	7015 C 1	9044 C 1	0210 C 1	
2042 B 1	2015 A 1	3016 C 1	3030 C 2	3071 A 1	4204 C 1	7006 C 1	9009 A 2	0211 C 1	
2049 B 1	2015 B 1	3017 C 1	3031 C 2	3072 A 2	4205 A 1	7005 C 2	9001 A 1	0212 C 1	
2044 C 1	2017 A 1	3000 C 1	3030 C 2	3073 A 1	4206 A 1	7000 C 2	0200 A 2	0215 C 1	
2045 C 1	2016 A 1	3021 C 1	3040 B 2	3073 A 1	4206 A 1	7040 B 1	6203 A 1	0215 A 1	



P

R



From / To Pin Strip

1100

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 1198  
 1199  
 1200

6

H

J

K

L

M

# 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 relation 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 (FLx.x6/FLx.x7)

Connect a voltmeter to pin 8 of L02

Adjust the voltage to 5.4V using R3558

### 1.3 +13V supply voltage (FLx.x6/FLx.x7)

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.

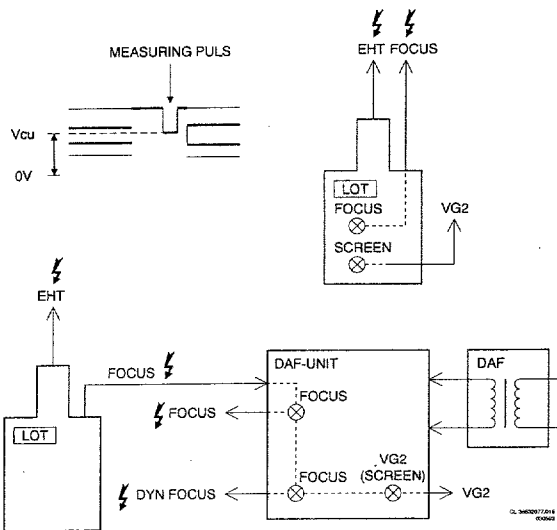


Fig. 7.1

### 1.7 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.

### 1.8 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.

### 1.9 Picture width

Set using potentiometer R3607.

### 1.10 Vertical centring

Set using potentiometer R3467.

### 1.11 Picture height

Set using potentiometer R3410.

### 1.12 Picture height

Movie expand on: set using potentiometer R3422.

Movie expand off: set using potentiometer R3410.

### 1.13 East/West correction

Set using potentiometer R3602.

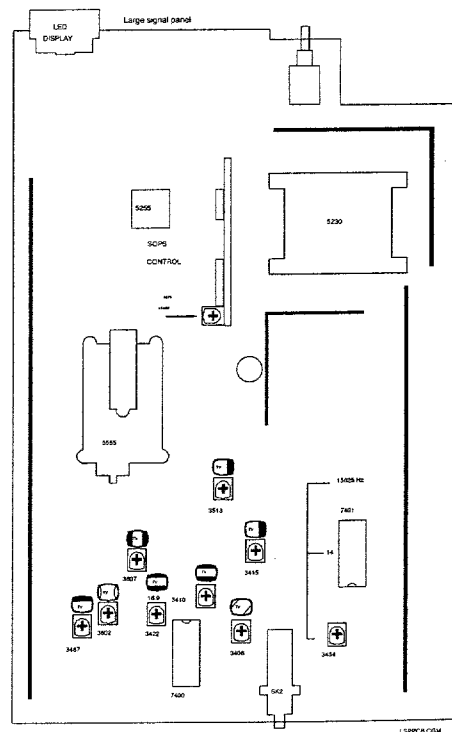


Fig. 7.2

2. E  
2.1 S  
C  
si  
S  
th  
C  
U  
ar  
2.2 4  
S  
pe  
ar  
2.3 E  
2.3.1 C  
C  
th  
4.  
pi  
of  
S  
R  
2.3.2 4.  
C  
w  
C  
C  
S  
R  
2.3.3 6.  
C  
E  
20  
C  
C  
S  
R  
2.3.4 C  
C  
ba  
ex  
pr  
2.3.5 C  
C  
ba  
ex  
pr  
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<sub>rms</sub>.

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<sub>rms</sub>.

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

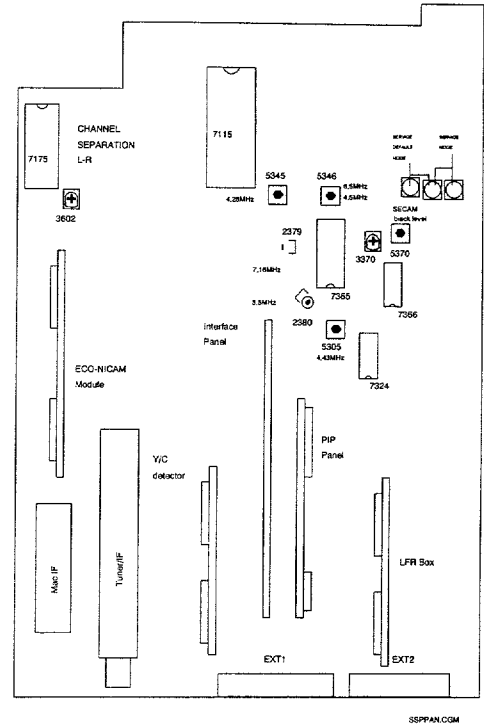


Fig. 7.3

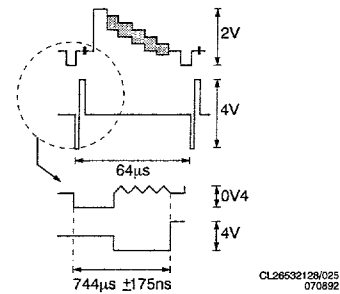


Fig. 7.4

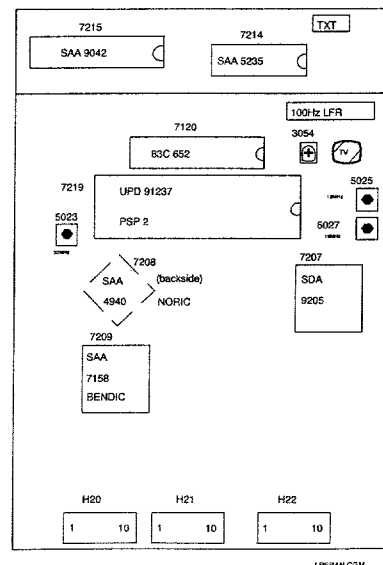


Fig. 7.5

# 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  $\mu$ sec 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 input signal. Measure the frequency at point 41 of IC7208. Using L5023 set the frequency to 32 MHz  $\pm$ 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  $\mu$ sec 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 (C<sub>i</sub>  $\leq$ 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. ( $\pm$ 5Hz)

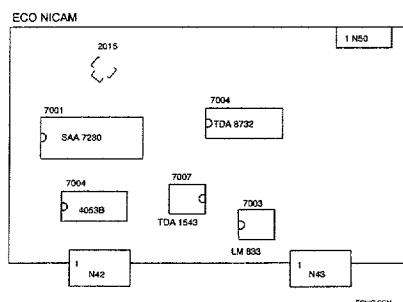


Fig. 7.6

## 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.

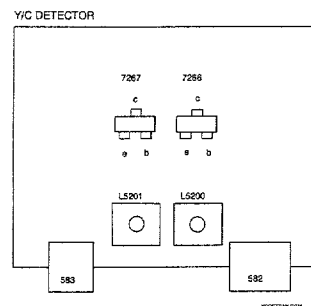


Fig. 7.7

## 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  $\approx$ 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  $\pm$ 25 Hz with R3239.  
Remove the short circuits.

### 6.2 AGC

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

### 6.3 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.

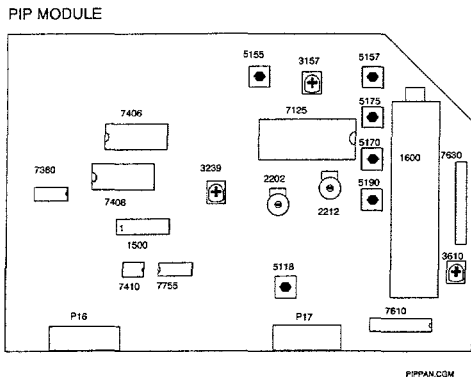
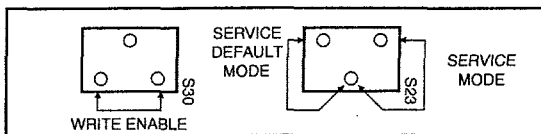


Fig. 7.8

## 7. Alignments in the Service Menu

The FL sets are equipped with EAROM protection. The EAROM protection will only work if pin 1 of IC7137 is high. If this point is made low by the pins of S30 on the SSP, the protection is switched off and the protected area can once more be written to. During adjustment in the service menu these pins must therefore remain connected together continuously.



CL 46532022.015  
220294

7.1 Switch in the Service Menu by momentarily connecting together pins 2S323 and 1S323 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.

- The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.

## 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 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:

<b>Option code 1</b>	
<i>Function</i>	<i>Value</i>
Front end FQ916/ME/IF	2
PIP module	8
NTSC-M	16
NICAM module	64
2nd front end on PIP module	128 +
	-----

**Option code 1 is now: 218**

<b>Option code 2</b>	
<i>Function</i>	<i>Value</i>
100 Hz Digital Scan	4
100 Hz Digital Scan	64
Comb Filter	128 +
	-----

**Option code 2 is now: 196**

<b>Option code 3</b>	
<i>Function</i>	<i>Value</i>
16:9 PTV	64 +
	-----

**Option code 3 is now: 64**

<b>Option code 4:</b>	
<i>Function</i>	<i>Value</i>
50Hz-PIP	2
FL2/4 model	4
DAF	8
Mozaik screen on	32
Picture rotation	128 +
	-----

**Option code 4 is now: 174**

<b>Option code 5</b>	
<i>Function</i>	<i>Value</i>
Third SCART (Euro AV3)	1
SCAVEM	2 +
	-----

**Option code 5 is now: 3**

<b>Optioncode 1</b>	
<b>Nbr.</b>	<b>Function</b>
<b>0</b>	<b>Front end = FQ816 / FQ916</b> A reception of PAL BG or PAL BG and SECAM BG is now possible
<b>1</b>	<b>Front end = FQ844 / FQ944</b> Only reception of the UHF band is now possible
<b>2</b>	<b>Front end = FQ816/ME/IF / FQ916/ME/IF</b> Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
<b>4</b>	<b>Front end = FQ916/MF/IF</b> Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
<b>8</b>	<b>PIP module present</b> This makes it possible to show PIP (Picture in Picture) displays.
<b>16</b>	<b>NTSC-M reception possible</b> This is normally always in combination with front end FQ816/ME/IF or FQ816/MF/IF or FQ916/ME/IF or FQ916/MF/IF
<b>32</b>	<b>SECAM DK module fitted</b> In this case transmissions using the SECAM DK system can also be received.
<b>64</b>	<b>NICAM module fitted</b> In this case the digital sound with NICAM transmission can be received.
<b>128</b>	<b>Second front end for PIP fitted</b> If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies.

<b>Optioncode 2</b>	
<b>Nbr.</b>	<b>Function</b>
<b>1</b>	<b>Not in use</b>
<b>2</b>	<b>Not in use</b>
<b>4</b>	<b>100Hz</b> 0 for 50Hz or 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 64 further.
<b>8-32</b>	<b>Not in use</b>
<b>64</b>	<b>100Hz</b> 0 for 50Hz 1 for 100Hz-ECO (FLx.x7) 1 for 100Hz Digital Scan (FLx.x4/FLx.x6) See number 4 further.
<b>128</b>	<b>Comb-filter</b> Select this bit for sets with a comb-filter with IC7000 = MC141625 on the comb-filter module (number 16 of option code 4 should now be zero).

# Electrical adjustments

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

Optioncode 4	
Nbr.	Function
1	<b>Teletext Peaking Filter on/off for LFR box (Scandinavia)</b> In Scandinavia this number must be selected .
2	<b>50Hz-PIP in a 100Hz set</b> Applies to FLx.x7. Applies to Digital Scan sets (FLx.x4/FLx.x6) with the Multi-PIP possibility. (This option is 0 for the FL1.14 36" (no Multi-PIP))
4	<b>FL2/4 model</b> (see chapter 4 also)
8	<b>16:9 picture tube with DAF (Dynamic Astigmatic Focus)</b> Recognisable by the potentiometers for 'Focus' and 'VG2 (SCREEN)'; these are located on the DAF unit instead of on the high voltage transformer (LOT).
16	Not in use
32	Mozaik screen on/off
64	Not in use
128	Picture rotation possible (frame rotation) (16:9)

Optioncode 5	
Nbr.	Function
1	Third SCART present
2	SCAVEM switchable present
4	Not in use
8	SCAVEM non switchable present
16	Auto TXT install enable

# 8. Repair tips

## 1. The Service Default Mode

The FL is 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 2S323 and 3S323 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

The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on.

In both FL1 and FL2/4 models the I<sup>2</sup>C 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 FL2/4 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. 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 FL2/4. A table of error messages is provided at the end of this chapter.

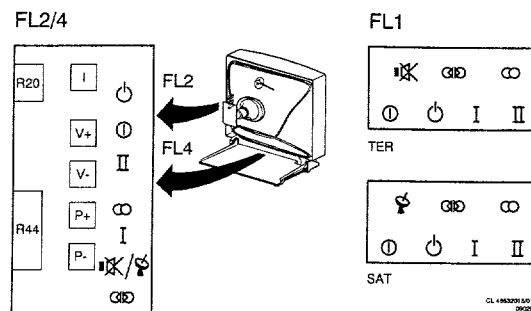


Fig. 8.1

## 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. E  
E  
a  
s  
4  
S  
7. C  
F  
th  
re  
m  
In  
se  
di  
su  
co  
1.  
2.  
3.  
4.  
5.  
Ti  
m  
Ti  
L  
L  
L  
10  
8 D  
8.1 H  
In  
pr  
sv  
st  
in  
pc  
As  
pc  
cc  
is  
A  
su  
pr  
mi  
(si  
Al  
inj  
de

## 6. Extension cables

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

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

See chapter 4 also.

## 7. 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 31233	FL2.2X
LFR box [L]+[M]	4822 212 31313	FL2.24/58
LFR box [L]+[M]	4822 212 31314	FL2.24/62
100Hz box [L]	4822 212 31392	FL4.27

## 8. Diagnosis and protection

### 8.1 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.

### 8.2 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;<br>(this value is maintained by a thyristor circuit formed by TS7380/TS7381); |
| 3 | 0.5V        | during stand-by and software protection.  |

### 8.3 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  $U_{be}$  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.

## 8.4 Software protection

### 8.4.1 Error message 99

Error message 99 is displayed when software protection is generated by the microprocessor. Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an I<sup>2</sup>C 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 to communicate with the connected I<sup>2</sup>C-IC's before making a decision for software protection.

During this period (up to approximately 5 minutes) the set will not react to any operational commands. Because none of the I<sup>2</sup>C-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.

### 8.4.2 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.

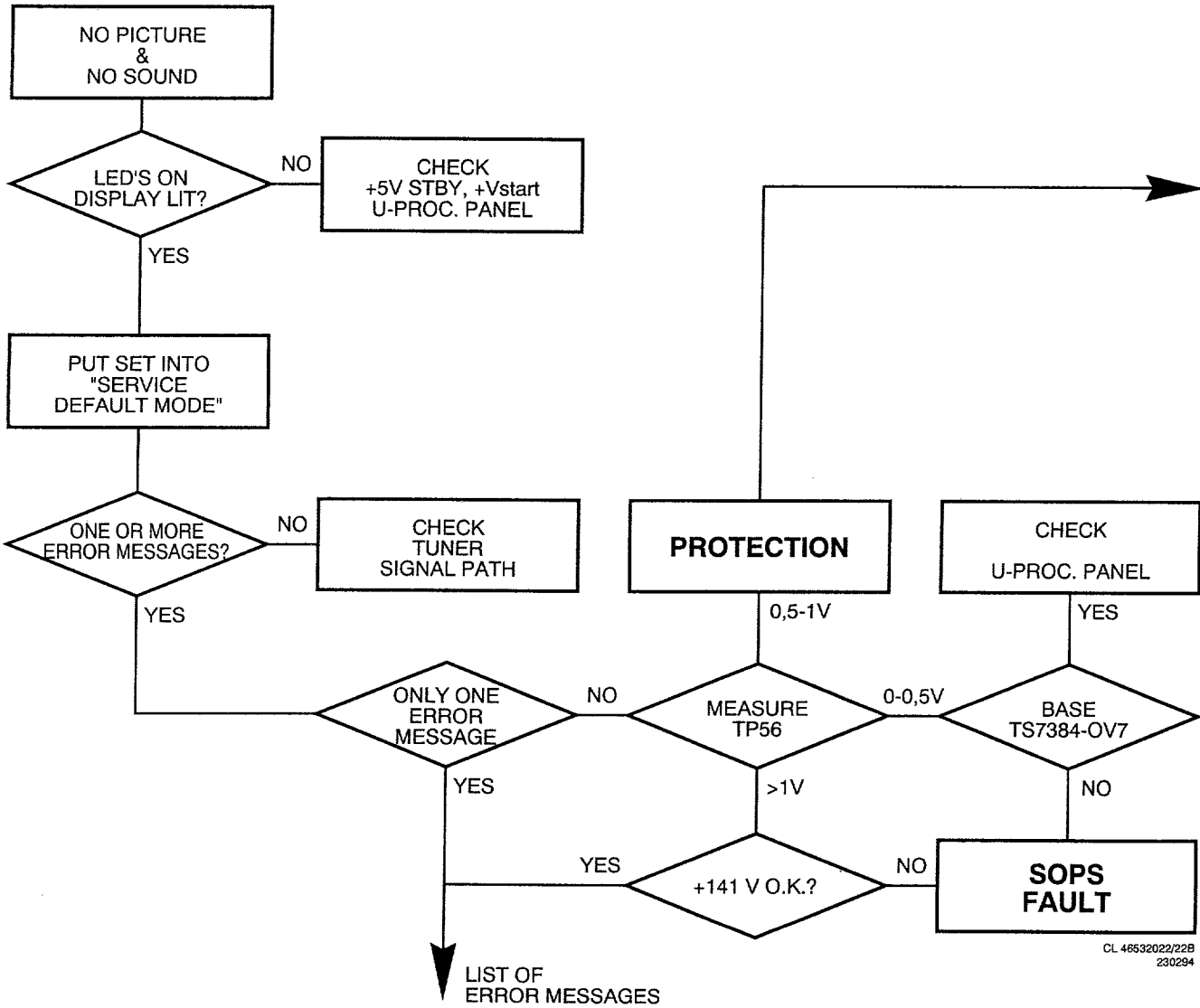
8 +13V on the small signal panel (SSP) [diagrams A, D and F]). To test whether the +13V power supply voltage from the main power supply (SOPS) [diagram A] is reaching the small signal panel without short-circuiting, IC7430 (TDA4680 video processor, [diagram D]) or IC7600 (TDA8417, stereo decoder, [diagram F]) or IC7680 (TDA8425, audio processor [diagram F]) must provide a signal via I<sup>2</sup>C 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.

## 8.5 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 another protection circuit (N-PROT).



E

...

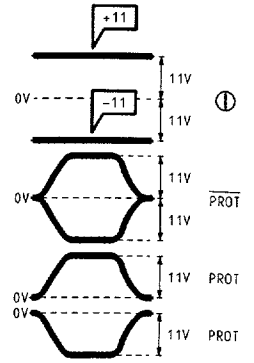
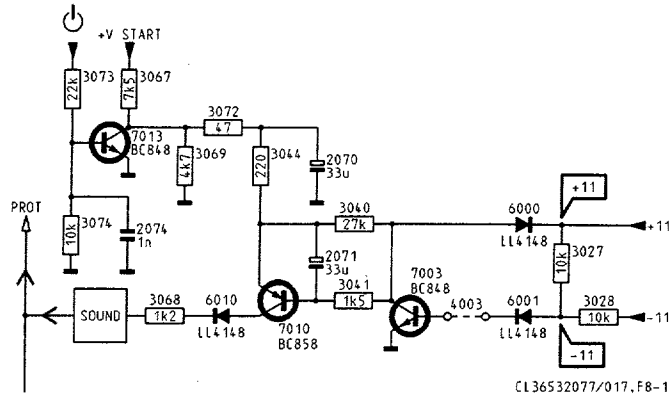
...

E

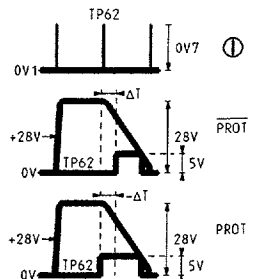
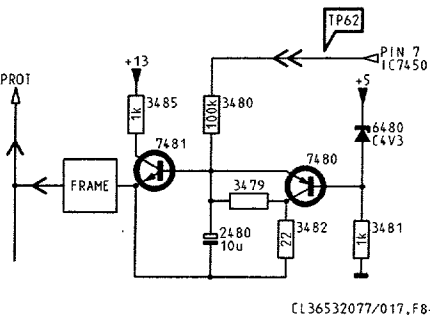
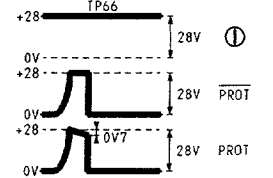
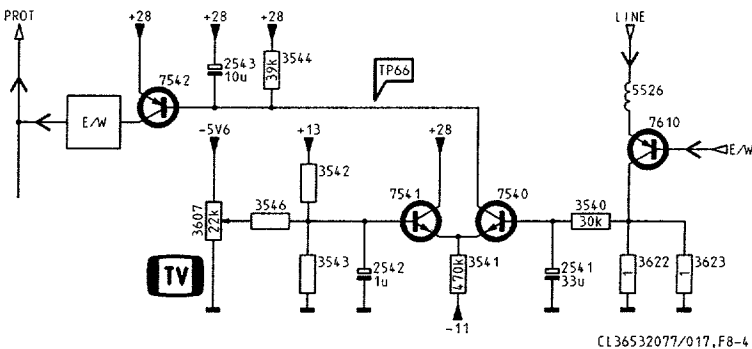
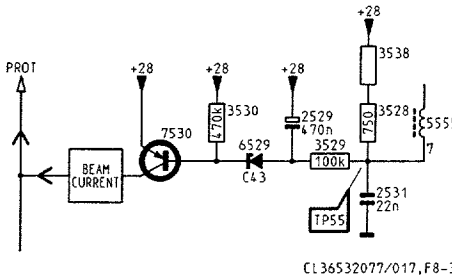
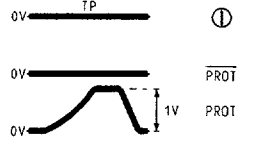
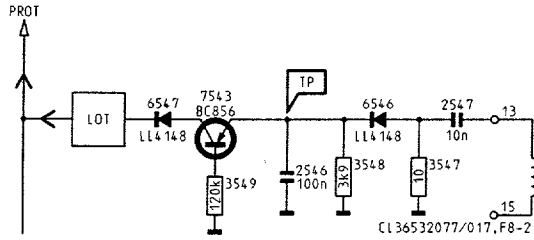
...

...

+11V  
-11V



EHT



+V

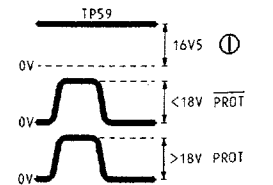
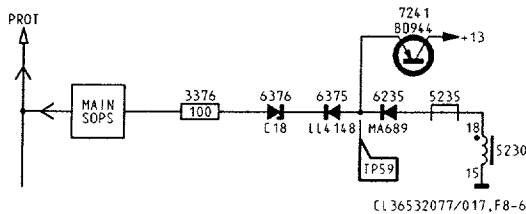


Fig. 8.2

## List of error messages

Error number on screen	Flashing LED							Description of error
	🔊/🔇	📶	🔄	🕒	🔌	I	II	
1 <sup>1)</sup>			X		X	X		I <sup>2</sup> C, IC7108, SSP [H] (MSM6307)
3					X	X		I <sup>2</sup> C, IC7215, 100Hz SAA 9042 [L] I <sup>2</sup> C, IC7111, TXT SAA 9042 [L']
4				X		X		I <sup>2</sup> C, IC7220, 100Hz [M] [L'] J83C652
5				X			X	I <sup>2</sup> C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I <sup>2</sup> C, IC7600, SSP [F] (TDA8417)
7							X	I <sup>2</sup> C, IC7680, SSP [F] (TDA8425)
8						X	X	IC7440, frame rotation [Y], PCF8574 (16:9)
9			X	X		X		I <sup>2</sup> C, IC7430, SSP [D] (TDA4680)
10				X	X		X	I <sup>2</sup> C, IC7395, SSP [D] (TDA8443)
11				X	X			I <sup>2</sup> C, front-end, SSP [C] (FQ 9XX)
12							X	I <sup>2</sup> C, IC7137, SSP [H] (X24C04)
13			X					I <sup>2</sup> C, bus on chassis blocked
14			X	X				I <sup>2</sup> C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I <sup>2</sup> C, IC7219, SSP [C] (TEA6414)
16			X			X		I <sup>2</sup> C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, $\mu$ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, $\mu$ proc. [H]
20				X	X	X	X	7115, SSP, $\mu$ proc. [H]
21				X				EAROM X24C08 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I <sup>2</sup> C, IC7080, convergence panel [V] (TDA8444) (PTV)
28		X						I <sup>2</sup> C, PIP tuner [J]
29		X			X			I <sup>2</sup> C, IC7638, PIP-modulo [J] (SAA1300)
30			X		X		X	I <sup>2</sup> C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I <sup>2</sup> C, IC7001, NICAM-panel [K] (SAA7280)
33		X		X				I <sup>2</sup> C, PLL (1500) PIP modulo [J]
34 <sup>1)</sup>	X		X				X	LNC supply on SAT box [Q,R] not correct
35 <sup>1)</sup>	X		X		X		X	IM-bus on SAT box [Q,S] blocked
36 <sup>1)</sup>	X		X	X			X	I <sup>2</sup> C, bus on SAT box blocked
37 <sup>1)</sup>	X		X	X	X		X	I <sup>2</sup> C, IC7450, D2-MAC [S] (X24C02)
38 <sup>1)</sup>	X		X			X	X	I <sup>2</sup> C, SAT Tuner [Q] (SF914; SF916)
39 <sup>1)</sup>	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40 <sup>1)</sup>	X		X	X		X	X	D2-MAC [S]
41 <sup>1)</sup>	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42 <sup>1)</sup>	X				X		X	IC7250, TUNER/CONTROL [Q]
43 <sup>1)</sup>	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q]
44 <sup>1)</sup>	X			X	X		X	SAT Tuner [Q] (SF914/916)
45 <sup>1)</sup>	X					X	X	IC7250, TUNER/CONTROL [Q]
46 <sup>1)</sup>	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47 <sup>1)</sup>	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48 <sup>1)</sup>	X			X	X	X	X	D2-MAC [S]
49 <sup>1)</sup>	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51 <sup>1)</sup>					X	X	X	IC7250, TUNER/CONTROL [Q]
52 <sup>1)</sup>			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

<sup>1)</sup> This error is only possible on sets with built in SAT box.

● The error codes are only displayed when the 'Service Mode' or the 'Service Default Mode' are switched on. In case an error indication on the set is not included in this table, then check the optional codes (see § 7).



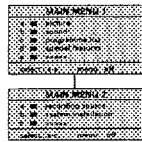
**Installation**

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.

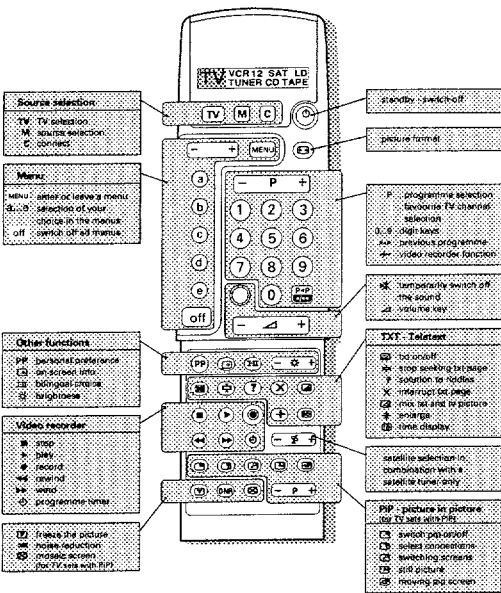


- o This circle in front of a sentence indicates that you have to do something.
- o This arrow in front of a sentence indicates the result of what you have done.

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

**Contents**

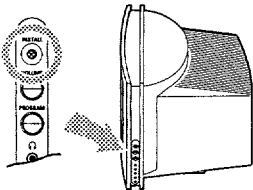
<b>Installation</b>	<b>Operation</b>
Selecting your Menu language	Main Menu
Searching for and Storing TV channels :	Other Functions
- Automatic	Pip Picture in Picture
- Manual	Teletext
	Peripheral Equipment
	Tips



**Selecting your menu language**

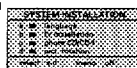
You can choose for yourself the language of the menus - the instructions and the various possible choices - which you call up on your screen.

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

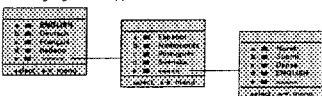


If the message **CHILD LOCK ON** appears, the child lock should be switched off. See **Special Features**.

- o The **SYSTEM INSTALLATION** menu appears on the screen.
- o It is also possible to enter the installation menu via the main menu. See **Main Menu**.



- o Press the red key **a** on the remote control.
- o The language menu appears on the screen.



- o Press the colour key of your language choice.
- o Press the corresponding colour key for >>>> if the language you want does not appear on the first language menu.
- o **LANGUAGE STORED** appears for a moment at the top of the menu. The language menu disappears and the **SYSTEM INSTALLATION** menu appears again.

**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. This can be done in two different ways: automatically or manually.

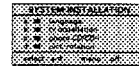
**Automatic installation**..... OR **Manual installation**.....

All TV channels are searched for and stored automatically. The programme numbers are filled in the programme list. If desired you can modify the allocation of the channel numbers of one or more stored TV channels afterwards and delete or insert TV channels.

The manual installation is characterised by the possibility to select the way of searching with frequencies. You yourself must assign a number of your choice to the TV channel located.

Follow very closely and step by step the instructions of the Manual Installation procedure. You must go through every step.

- o Press the green key **b** in the **SYSTEM INSTALLATION** menu.
- o The **TV INSTALLATION** menu appears.



**Automatic installation**

- o Press the red key **a**.
- o **AUTOMATIC** lights up.
- o Press **MENU +** to select **YES**.
- o **SEARCHING, PLEASE WAIT** appears and the TV is searching all the channels you can receive.

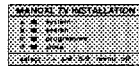


The automatic installation can be interrupted by pressing the **MENU** or **OFF** key.

- o Every time a channel is found it is automatically stored in the memory under the next programme number in the programme list.
- o When all channels are found the message **TV INSTALLATION COMPLETED** is displayed briefly on top of the menu. The programme list is automatically filled with all the programme numbers of the TV channels transmitted. The programme list is displayed without programme names. Now you yourself must assign a name to the TV channels located.
- o The menu **TV INSTALLATION** appears again.

**Manual TV installation**

- o Press the green key **b** in the menu **TV INSTALLATION**.
- o The menu **MANUAL TV INSTALLATION** appears.



**step a 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.

- o Press the red key **a**.
- o The **SELECTING THE SYSTEM** menu appears..... OR **ONLY ONE SYSTEM AVAILABLE** appears.....

**1** You have your own aerial.

- o Press the colour key of the country or part of the world from where you want to select the TV channel.

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

Go on to step **b**.

- o The **MANUAL TV INSTALLATION** menu now appears.
- o Your selection lights up.
- 2** You are connected to the cable system.
- o Press the colour key of the country or part of the world where you now are located.
- o The **MANUAL TV INSTALLATION** menu now appears.
- o Your selection lights up.
- o Go on to step **b**.

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

**step b Searching for a TV channel**

- o Press the green key **b**.
- o **SEARCHING** appears and the TV is searching for a channel.
- o The frequency increases until a channel is found.
- o Go to step **c** if you want to store the channel that has been found.
- o Press **ENTER** under the door of the remote control to recognise which programme is being broadcast.
- o The **MANUAL TV INSTALLATION** menu disappears temporarily.
- o Do you want a different channel or is the reception poor?
- o Press the green key **b** again.
- o Is the reception still poor? See **Tips**.

**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.

**Direct selection of a TV channel :**  
If you know the frequency of a TV channel, you can enter it directly with the digit keys on the remote control and in this way call up the TV channel. Ask for a list of the frequencies at your cable company or at your dealer.

- o Enter the 5 digits of the desired frequency.
- o For frequencies under 100 MHz, first enter a 0. For example : 063.25.
- o Have you entered a wrong number?
- o First complete the frequency with arbitrary numbers and then start again.

Go on to step **c**.

**step c Entering the programme number**

Now you must assign a number of your choice 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.

- o Press the yellow key **c**.
- o Hold down the **P -** or **+** key or use the digit keys on the remote control until the desired programme number appears in the menu.

Go on to step **d**.

**step d Storing steps a to c**

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

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

**repeat** Do you want to store another TV channel?

- o Repeat steps a to d.
- o Are you connected to the cable system?
- o Begin immediately with step b. You have already selected the TV system in step a for all channels.

**out** Have you finished locating TV channels?

- o Press **MENU**.
- o The **TV INSTALLATION** menu appears again.

## Entering or modifying a programme name

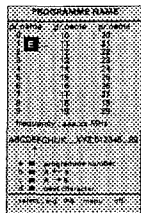
Now you yourself must assign a name to the TV channels located. A name of maximum 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1, ...

- o Press the yellow key c.
- o The **PROGRAMME NAME** menu and the programme list appear. Also the frequency of the current TV channel is displayed.
- o Press **[ ]** under the door of the remote control to recognise which programme is being broadcast.
- o The menu **PROGRAMME NAME** disappears temporarily.
- o Press the red key a.
- o Select the TV channel of which you want to change the name or to which you want to assign a name with the digit keys or with P - or +. External sources can not be selected with P - or +.

In the list you can now modify or enter the name of the TV channel. With the arrow under the letter and number line you select which letter or number in the list above you wish to enter.

In the list there is a red or white block next to the chosen programme number.

- o 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.
- o The letter or number that you indicate with the arrow appears in the block.
- o Press the blue key d.
- o The block moves over one space.
- o Now you can choose a following letter or number with the arrow.
- o 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 number.*

Are the complete names filled in?

- o Press **MENU**.
- o The **TV INSTALLATION** menu appears again.

## Modifying the programme list

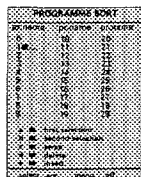
According to your preference you can modify the programme list of the stored TV channels by swapping, deleting or inserting certain TV channels.

- o Press the blue key d.
- o The **PROGRAMME SORT** menu appears.

### a. swap

With the swap-function you can modify the allocation of the stored TV channels.

- o Press the red key a.
- o **FIRST SELECTION** lights up.
- o Select the programme number of the TV channel of which you want to modify the programme number with the digit keys or with P - or +.
- o Press the green key b.
- o **SECOND SELECTION** lights up.
- o Select the programme number of the TV channel which you want to swap with the programme number selected in your first selection.
- o Press the yellow key c.
- o **PROGRAMMES SWAPPED** appears briefly at the top of the menu.
- o The TV channels and their names selected in the first and the second selection are swapped.
- o Repeat this for all the other TV channels you want to replace.



### b. delete

With the delete-function you can remove the TV channels you do not like to have in the programme list anymore.

- o Select, with the digit keys or with P - or +, the programme number you want to delete.
- o Press the blue key d.
- o **DELETE** lights up and the programme number and name of the TV channel to be deleted starts flickering in the **FIRST** or **SECOND SELECTION** line.
- o Press **MENU +** to select **YES**.
- o **DELETING PROGRAMME** appears briefly at the top of the menu.
- o The selected TV channel is deleted, its place is taken by the next programme and the subsequent programme numbers are shifted up one place.
- o Repeat this for all the other TV channels you want to delete.

### c. insert

You can add a TV channel at the place you like in the programme list with the insert-function of the programme sort menu.

- o Press the red key a.
- o **FIRST SELECTION** lights up.
- o Select, with the digit keys or with P - or +, the programme number where you want to create an empty place to insert a new TV channel.
- o Press the white key e.
- o **INSERT** lights up.
- o Press **MENU +** to select **YES**.
- o **INSERTING PROGRAMME** appears briefly at the top of the menu.
- o All the programmes starting from the one indicated in the programme list are shifted one place downwards.
- o The programme number of the empty place appears in red.
- o You can now insert a new TV channel with the **MANUAL TV INSTALLATION** method. See earlier.

Are all the TV channels allocated as you like?

- o Press **MENU**.
- o The **TV INSTALLATION** menu appears again.

## Preselection preferences

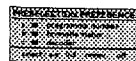
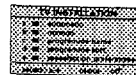
All the stored TV channels have been automatically placed into the programme list. In the **PRESELECTION PREFERENCES** menu you yourself should indicate for each stored TV channel if you want to keep that programme number as a favourite.

You can do this also for a programme number you want to reserve for the programmes you receive from your decoder.

This will make selecting your favourite TV channels a lot easier and faster.

When you run quickly through the TV channels by holding the P - or + key pressed down, only those TV channels which are in the favourite list will be displayed.

When you select a TV channel with the digit keys, the indication of this 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.



### Favourite TV channels

- o Press the white key a in the **TV INSTALLATION** menu.
- o The **PRESELECTION PREFERENCES** menu appears.
- o Press the red key a.
- o **PROGRAMME NUMBER** lights up.
- o Select the programme number of a TV channel with P - or + or with the digit keys.
- o Press the green key b.
- o **FAVOURITE STATUS** lights up.
- o Press **MENU -** or + to select **NO** or **YES**.
- o In this way you decide whether you want to keep the selected TV channel as a favourite TV channel or not.
- o Repeat this for each programme number.



### Decoder

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

- o Press the red key a in the **PRESELECTION PREFERENCES** menu.
- o **PROGRAMME NUMBER** lights up.
- o Select the programme number under which you want to store the programme coming from your decoder with P - or + or with the digit keys.
- o Press the yellow key c.
- o **DECODER** lights up.
- o Press **MENU -** or + repeatedly until the designation **EXT1** or **EXT2** appears according to the euroconnector to which you connected your decoder. This is not possible with a decoder connected to **EXT3**.
- o Select **NO** if you do not want the selected programme number being activated as a decoder preselection.
- o Press **MENU** twice.
- o The **SYSTEM INSTALLATION** menu appears again.

## Photo CD/CD-I

In case you have connected a photo Compact Disc or a Compact Disc Interactive see Peripheral Equipment.

- o Press the yellow key c in the **SYSTEM INSTALLATION** menu.
- o **PHOTO CD/CD-I** lights up.
- o Press **MENU +** to select **YES**.
- o This offers you an optimum picture quality for your Photo CD or CD-I.

## Picture rotation

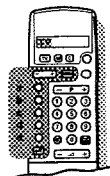
- o Press the blue key d in the **SYSTEM INSTALLATION** menu.
- o **PICT. ROTATION** lights up.
- o Press **MENU -** or + repeatedly to adjust the rotation of the picture.
- o Press off to exit the **SYSTEM INSTALLATION** menu.

## Operation

### Standby

- o With the standby key **[ ]** at the top of the remote control you can temporarily switch the TV off.
- o The red lamp on the TV lights up.
- o Press the C-key or a digit key in order to turn the TV on again. If for a period of 10 minutes no aerial signal is received, then your set automatically switches to standby.
- o Your TV consumes energy in the standby mode. Energy consumption contributes to air and water pollution. We advise you to switch off your TV overnight instead of leaving it on standby. You save energy and the picture tube is demagnetised which supports good picture quality.

## Main Menu

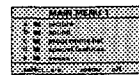


You use the keys in the grey area of the drawing to operate the main menu.

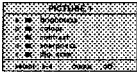
With the colour keys a-b-c-d-e you select your choice in the menus.

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.

- o Press **MENU**.
- o The **MAIN MENU 1** appears.
- o Press off to switch off each menu.



## Adjusting the picture

- Press **MENU**.
  - Press the corresponding colour key for **PICTURE**.
  - The **PICTURE 1** menu appears
- 
- Press one of the colour keys to select the adjustment you want to regulate.
- When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, also the option **tint** appears 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.

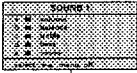
Do you want to store the changed adjustment in the memory ?

  - See Special Features, PP store.

### 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 **DK-SCAN**.
  - Press **MENU** - in order to switch off the line flicker reduction.
- Press **MENU**.
  - Press the **MAIN MENU 1** appears again.

## Adjusting the sound

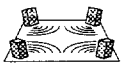
- Press **MENU**.
  - Press the corresponding colour key for **SOUND**.
  - The **SOUND 1** menu appears.
- 
- Volume, balance, treble, bass**
  - Press one of the colour keys to select the adjustment you want to regulate.
  - The selected adjustment lights up.
  - Press **MENU** - or + in order to regulate 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 1** appears.
  - See Special Features, PP store.

### Speech

- Press the white key **s** 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.
- 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** and **REAR**.
- 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 and if your set is equipped with Nicam, 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 the corresponding colour key for **PROGRAMME LIST** in **MAIN MENU 1**.
- A list with an overview of the first 30 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** - or + to run through the other pages (to 99) of the programme list.
- Press **MENU**.
- The **MAIN MENU 1** appears again.
- Press **off**.
- The **MAIN MENU** disappears.

## Special features


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

- Press a colour key in order to choose between child lock, sleep timer, pp store, demonstration, pip size (for sets with the Picture in Picture option) 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.
- If the message **CHILD LOCK ON** appears, the child lock should be switched off.
- Press the corresponding colour key for **CHILD LOCK**.
  - Press **MENU** - or + to switch the child lock off or on.

### Sleep timer

- With the aid of the sleep timer you can set the time when the TV should switch itself off.
- Press the corresponding colour key for **SLEEP TIMER**.
  - 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 or change the time set.
- 

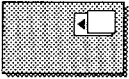
### PP store

- 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.

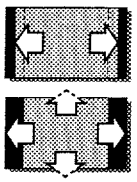
### Demonstration

- 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** in the **SPECIAL FEATURES 2** menu.
  - Press **MENU** - or +.
- For more information about Pip, see Pip, Picture in Picture.
- 

### 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.
- 

## Recording Source

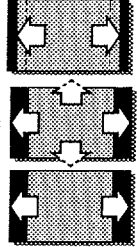
If you want to record a programme, then first read Peripherals, Recording.

## System Installation

You can also enter the System Installation menu via the Main Menu 2 to select your menu language and to locate and to store your TV channels.

## Other functions

### Picture format

- Press **PI** 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 in the **MOVIE EXPAND** picture format

- Press the **TV** key on the remote control.
- 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 **PP** key.
- The previous selected TV channel is displayed again.
- The **PR** indication has a video recorder function.

## Selecting satellites

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

## PP key

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

- Open the door of the remote control.
- Press **PP**.

## Information on screen

After the selection of a TV channel the following information appears briefly on your screen:

- the programme number and name of the selected TV channel
  - the actually selected sound mode if the TV-channel transmits stereo or digital sound
  - SOUND MUTED** when the sound is temporarily interrupted
  - the name of the pip-connection if pip is switched on.
- See **Picture in Picture**.

- DUAL I** or **II** in case of bilingual broadcast.
- Open the door of the remote control.
- Press **INFO** short.
- The channel information appears on the screen for a few seconds.
- If the sleep-timer is on, then the remaining time becomes visible.



## Permanent programme number

- Open the door of the remote control.
- Press **LONG**.
- The channel information appears on the screen for a few seconds 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

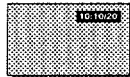
If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, you can make your choice.

- Open the door of the remote control.
  - Press key **III** 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 **TIME**.
- The time appears in the upper right hand corner of the screen.
- Press **TIME** again in order to switch off.



## Freezing the picture

When watching you can freeze the picture at any moment.

- Press **FREEZE**.
- Press **FREEZE** 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 MED**, **DNR MAX** or **DNR OFF**.
- Your selection appears for a moment on top of the screen.
- DNR MED** 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.

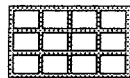
## Mosaic screen

With the mosaic screen, 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 **MOSAIC**.
- 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 the mosaic screen 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 mosaic-picture will contain its belonging programme number.
- Select a TV channel with the digit keys.
- The mosaic screen disappears and the selected TV programme will be displayed.
- Press the blue key d to interrupt the scan function and to switch off the mosaic screen.



*Never perform a scan while recording a TV programme with a video recorder connected to EXTERNAL 1, 2 or 3 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 the mosaic screen.
- The programme that was selected before the mosaic screen 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 strobe function is switched off.
- Press the blue key d to switch off the mosaic screen.

## Pip - Picture in Picture

### Switching pip on and off

- Open the door of the remote control.
- Press **PIP**.
- 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 **PIP** 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.

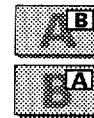
### Selecting pip connections

- Press **PIP** repeatedly.
  - The name of the connections appear.
  - If any other electronic unit is connected with a aurocable 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**, **EXTERNAL 3**, **FRONT**, see **Peripheral Equipment**.



### Switching screens

- Press **PIP**.
- 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.



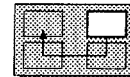
### Still Picture

- Press **PIP**.
- 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 **PIP** again or select another channel in the pip screen in order to cancel the still picture.

### Moving the Pip screen

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

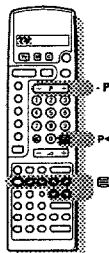
*If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.*



### Pip Size

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

## 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 **TELETEXT** 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 **TELETEXT** again in order to switch off the teletext.
- The TV channel reappears.

## Eas

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## Sele

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- The pa page a: numbe
- A mess a not e Page n. exist.
- Enter ti

## Quic

- Press P
- Press P

## Sele

- Press ti
- The pr

## Sele

- When z the sub: The co display The ot transm
- Press M
- Press M

## Sele

- Press ti
- The inc

## Spe

- Open tr
- Hold You can wrong i
- Press <
- Press >
- Enter ar
- Press dis:

## Revel

- Some p and puz
- Press ?
- Press ?

## Interrup

- Press X
- The TV i
- at th mode.
- Before i: When ti screen.
- Press X
- Teletext

## Mix

- Press <
- The tele same tir
- Press >
- Only th

## Enlarge

- Press <
- Press >
- Press o

## Subpage

- By addi:
- Enter th:
- Press <
- Enter th of sever:
- Press >

## Subtitle

- Select th
- Select th
- Subtitle: TV prog

### 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 pages are stored in the memory when switching off teletext or when switching to standby.

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

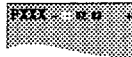
- Press **P** - to run through the previous pages.
- Press **F** - to run through the following pages.

### Selecting the previous teletext page

- Press the **P+F** 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 index teletext page

- Press the white colour key.
- The index, usually p. 100, appears.

### Special teletext functions

- Open the door of the remote control.

#### 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.
- **X** 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 page number appears 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

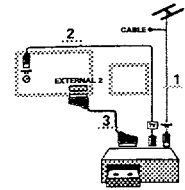
- By adding a subcode you can call up a desired subpage.
- Enter the page number.
- Press **⊞**.
- Enter the desired subpage with the digit keys: e.g. 3 for the third page of seven subpages.
- Press **⊞** in order to cancel the subcode.

#### 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.

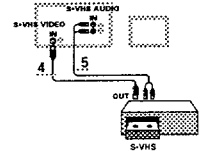


#### TV and video recorder

- 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 connectors, then connect as well as the aerial cables 1 and 2

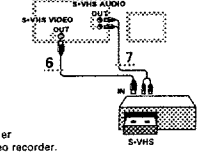


- the S-VHS cables 4 and 5
- and the S-VHS cables 6 and 7.

Do not connect an additional eurocable.

#### OR

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



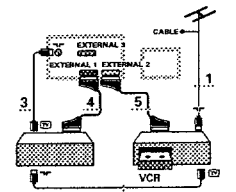
- Never connect to the same TV one video recorder with S-VHS cables at the same time as one video recorder with a euroconnector. The euroconnector has no function.

#### Searching for and storing the testsignal of the video recorder

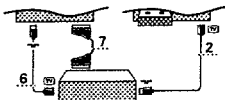
- Unplug the aerial cable of the aerial socket "M" of your video recorder.
- Switch on your TV and put the video recorder on the testsignal. (See the handbook for your video recorder.)
- Press the **INSTALL** key at the right side of your TV, or enter the System installation menu via the main menu.
- 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.
- Store the testsignal either under programme number 0 or between 50 and 99.
- Insert the aerial plug again into the aerial socket "M" 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 eurocable 4 to EXTERNAL 1 or 3 and the eurocable 5 to EXTERNAL 2 additionally.
- Look for the test signal of your peripheral in the same way as you do for a video recorder.



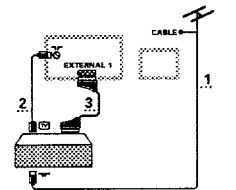
When having more peripherals, you can also connect them to each other with an extra aerial cable 6 and an additional eurocable 7 to obtain a better picture quality.



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

#### TV and laser disc or satellite tuner or Photo CD/CD-I equipment

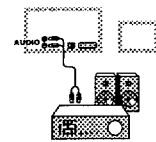
- Connect the aerial cables 1 and 2 as shown alongside. A better picture quality is obtained if you connect the eurocable 3 additionally. See also Installation, Photo CD/CD-I, if you connect a Photo CD/CD-I equipment.
- Look for the test signal of your equipment in the same way as you do for a video recorder.



#### Audio equipment

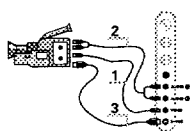
You can listen to your TV sound via your audio equipment.

- 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.
- Connect also 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.

- 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:

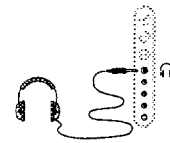
- Connect them to FRONT **OR** REAR.
  - You achieve a surround sound effect. A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to REAR and 12 m wire can be purchased from your dealer. Do never connect the loudspeakers from these kit to FRONT.
- Press the loudspeaker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

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.
  - Press **M** on the remote control.
  - Adjust the volume with **-** or **+**.
  - The internal loudspeakers of your TV are switched off.
- The headphone socket has an impedance of between 8 and 4000 Ohm and is of the 6.3 mm jack type.

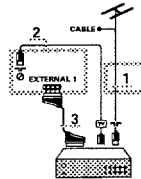


## Decoders

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

### Connecting a decoder with an aerial socket to the TV

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

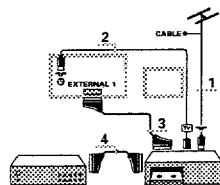


### Connecting a decoder without an aerial socket to the TV

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

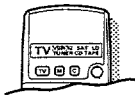
### Connecting the decoder to the video recorder

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



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

## Reproducing Picture and Sound



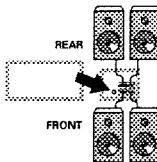
Most of the audio and video equipment from our range of products can be operated with the remote control of your TV. Then press **M** on the remote control repeatedly until the designation VCR1, VCR2, SAT, LD, TUNER, CD or TAPE appears in a grey block, according to the equipment. To operate your TV again, first press the TV key and enter the programme number of the TV channel you want to watch with the digit keys.

### 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 your equipment.
- 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, EXT3 or FRONT appears on the screen, according to where you connected your equipment at the back or the right side of your TV.
  - Either the picture and/or the sound is reproduced.
  - Do you want to watch TV again?
  - Press **C** repeatedly again until the picture and/or the sound from the TV channels is reproduced.



### 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.
- 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.
- Set your video recorder to record. (See the handbook for your video recorder.)

using a eurocable connected to the euroconnector EXTERNAL 2

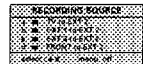
- Select the programme number on the TV.
- Press **MENU**.
- Press the corresponding colour key for RECORDING SOURCE in the MAIN MENU 2 menu.
- RECORDING SOURCE appears.
- Press the red key **a**.
- TV to EXT2 is displayed.
- Press off.
- Set your video recorder to record. (See the handbook for your 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.)

### 2. Recording a programme from equipment connected to EXTERNAL 2 or FRONT

- 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.
- Press off.
- Set your video recorder to record. (See the handbook for your video recorder.)



## Tips

### Poor Picture

Have you selected the correct TV system? Is your TV set or house aerial located too close to loudspeakers, non-earthed audio equipment or neon lights, etc.? Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the outside aerial. Is the picture unrecognisable? Check if you have entered the correct frequency or adjust the frequency by fine tuning. See Installation. Are brightness and contrast out of adjustment? Press the **PP** key. Switch off your TV overnight with **⓪** on the left side of the TV.

### No picture

Is the aerial connected properly? Are the plugs tightly connected in the aerial socket? Is the aerial cable in good condition and does it have suitable plugs? Are the connection facilities to a possible secondly installed TV in good condition? If in doubt, consult your dealer.

**NO PICTURE** means that the selected peripheral equipment is transmitting no picture.

Did you press the correct keys on the remote control? Try it once more. Did you press **⓪** again after switching on teletext? Has the child lock been switched off? See Special Features.

### Sound

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

### Remote control

Does your TV no longer respond to the remote control? Check whether the indication TV appears in a grey block. Perhaps the batteries are empty.

### Menu

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

### Connections

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

### No solution?

Switch your TV set off and then on again. **Never attempt to repair a defective TV yourself.** Check with your dealer or call a TV technician when nothing helps.

**Ohjeita laitteen käytöstä poistamiseksi**  
Laitteessa käytetty materiaaleja voidaan kierrättää ja käyttää uudelleen, jos purkamisen hoitaa tähän erikoistunut liike. Suosittelemme noudattettavaksi vanhojen laitteiden kierrätyksestä annettuja paikallisia ohjeita.





# Spare parts list / Stükliste / Liste des pièces

15

16

17

18

19

20

21

22

1014

3593

## Large signal panel FLx.24 [A] [B] [G]

4822 265 30525	2P male white
4822 265 20541	2P male black
4822 265 31099	6P female blue
4822 267 51334	10P female blue
4822 290 40295	7P male
4822 265 40818	8P male
4822 265 40442	10P male
4822 265 20509	2P male
4822 267 41146	6P male black
4822 267 40985	6P male eco
4822 264 40207	3P male
4822 267 41018	2P male red
4822 265 20512	2P male green
4822 265 20511	2P male blue
4822 265 31098	6P male blue
4822 265 41367	10P male blue
4822 265 30389	2P male
4822 267 41142	3P male eco
4822 267 30871	2P female
4822 266 20163	2P female black

## Various

4822 466 93029	Insulation plate
5322 390 20011	Vet silic.P4 20GR
4822 492 70143	Spring 10X33mm
4822 492 62076	Spring fix trans.
4822 492 70788	Spring fix IC
4822 492 70789	Spring fix trans.
4822 290 60812	Socket for ext. loudsp.
4822 276 13094	Switch loudsp. ON/OFF
4822 310 31932	SOPS repair kit
4822 320 20162	EHT cable
4822 320 11105	Focus cable
4822 320 20213	Vg2 cable
1010 4822 212 23892	NTSC ASSY
1026 4822 102 90038	DAF unit 32"

## -II-

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 32566	3,9nF 10% 63V
2012 4822 122 32927	220nF 20% 50V
2013 4822 122 32927	220nF 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 20% 100V
2020 4822 126 12816	10nF 20% 100V
2021 4822 126 12816	10nF 20% 100V
2022 4822 126 12816	10nF 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 20% 50V
2027 4822 122 32927	220nF 20% 50V
2028 4822 122 32927	220nF 20% 50V
2029 4822 122 32927	220nF 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 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 20% 50V
2041 4822 122 32927	220nF 20% 50V
2043 4822 122 32927	220nF 20% 50V
2045 4822 122 32927	220nF 20% 50V
2046 4822 122 32927	220nF 20% 50V
2047 4822 122 32927	220nF 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
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 42193	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 126 12876	15pF 10% 100V
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
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
2330 4822 122 31784	4,7nF 10% 50V
2331 4822 122 32891	68nF 10% 63V
2351 4822 121 41854	150nF 5% 63V
2360 4822 122 31981	33nF 5% 50V
2361 4822 121 42589	82nF 5% 63V
2365 5322 122 32838	82nF 10% 63V
2372 5322 121 42502	390nF 5% 63V
2376 4822 124 40272	33µF 20% 16V
2380 4822 122 33496	100nF 10% 63V
2381 4822 122 33496	100nF 10% 63V
2382 4822 122 33496	100nF 10% 63V
2386 5322 122 31647	1nF 10% 63V
2401 4822 122 32542	47nF 10% 63V
2402 4822 124 40246	4,7µF 20% 63V
2403 5322 124 41431	22µF 20% 35V
2404 4822 124 40246	4,7µF 20% 63V
2405 4822 122 32542	47nF 10% 63V
2406 4822 121 51091	1,2nF 2% 250V
2407 5322 122 31647	1nF 10% 63V
2408 4822 122 31172	180pF 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 122 31173	220pF 10% 500V
2413 4822 122 31768	180pF 2% 63V
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 5322 122 31647	1nF 10% 63V
2452 4822 124 41716	220µF 20% 35V
2453 4822 122 33496	100nF 10% 63V
2455 4822 122 31746	1nF 2% 63V
2456 4822 124 80457	3300µF 20% 35V
2457 4822 124 42249	1µF 10% 50V
2458 4822 122 31797	22nF 10% 63V
2459 4822 122 33496	100nF 10% 63V
2460 4822 122 33496	100nF 10% 63V
2480 4822 124 23495	10µF 20% 25V
2502 4822 121 41689	100nF 10% 250V
2503 4822 126 11823	270pF 10% 500V
2504 4822 126 13152	820pF 10% 3kV
2504 4822 126 13157	2,2nF 10% 3kV
2507 4822 121 42408	220nF 5% 63V
2509 4822 122 31174	2,7nF 10% 500V
2510 4822 126 12083	1nF 10% 500
2511 4822 124 41739	47µF 20% 160V
2512 4822 124 40248	10µF 20% 63V
2513 4822 124 40248	10µF 20% 63V
2517 4822 126 11157	470pF 10% 500V
2518 4822 124 22449	47µF 30% 350V
2521 4822 121 43397	680nF 5% 250V
2522 4822 121 43397	680nF 5% 250V
2523 4822 122 33382	9,1nF 5% 2kV
2523 4822 121 70435	10nF 5% 2kV
2524 4822 121 70005	15nF 5% 630V
2524 4822 121 70397	12nF 5% 630V
2525 4822 124 80604	47µF 20% 50V
2526 4822 126 11502	470pF 10% 500V
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	2,2nF 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 126 12941	10pF 10% 100V
2546 4822 126 11725	1µF 20% 5V
2547 4822 122 32566	3,9nF 10% 63V
2548 4822 126 11725	1µF 20% 5V
2551 4822 124 40195	150µF 20% 16V
2600 4822 124 40246	4,7µF 20% 63V
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
2609 4822 121 51243	56nF 5% 50V
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 40248	10µF 20% 63V
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	8Ω 2% 0,33W
3021 4822 052 10828	8Ω 2% 0,33W
3022 4822 052 10828	8Ω 2% 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 10132	1k3 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
3202 4822 053 21825	8



# Spare parts list / Stükliste / Liste des pièces

Ω 5% 0,5W	3457	4822 051 10912	9k1 2% 0,25W	3615	4822 116 52224	470Ω 5% 0,5W	6251	4822 130 81512	BZV55-C6V2	7320	4822 130 82034	CNX83A
1% 0,125W	3458	4822 116 80676	12Ω 5% 0,5W	3616	4822 051 10332	3k3 2% 0,25W	6260	4822 130 80446	BAS32L	7360	4822 130 42513	BC858C
1% 0,125W	3459	4822 116 80676	10Ω 5% 0,5W	3617	4822 051 20222	2k2 5% 0,1W	6262	4822 130 83121	BYD73C	7369	5322 130 42755	BC847C
k 5% 0,5W				3618	4822 051 10683	68k 2% 0,25W	6266	4822 130 34278	BZX79-F6V8			
1% 0,25W	3460	4822 053 11331	330Ω 5% 2W	3619	4822 051 20222	2k2 5% 0,1W	6272	4822 130 34173	BZX55-B5V6	7370	5322 130 42136	BC848C
k 5% 0,5W	3461	4822 116 80176	270Ω 5% 2W	3620	4822 051 10682	6k8 2% 0,25W	6280	4822 130 30621	1N4148	7371	4822 130 42513	BC858C
10%	3462	4822 116 80176	1Ω 5% 0,5W	3621	4822 051 10114	110k 2% 0,25W	6302	4822 130 80446	LL4148	7380	4822 130 42513	BC858C
5% 0,5W	3464	4822 053 10102	1k 5% 1W	3622	4822 116 80176	1Ω 5% 0,5W				7381	5322 130 42136	BC848C
Ω 2% 0,25W	3465	4822 051 10681	680Ω 2% 0,25W	3623	4822 116 80176	1Ω 5% 0,5W	6303	4822 130 80446	LL4148	7384	5322 130 42755	BC847C
Ω 2% 0,25W	3467	4822 100 20168	10k 30% lin	3626	4822 130 40938	BC548	6304	4822 130 81637	PMLL4148L	7400	4822 209 30402	TDA2579B/N2/S1
10% 5W	3473	4822 051 10152	1k5 2% 0,25W	3627	4822 051 10202	2k 2% 0,25W	6305	4822 130 82334	BAS85	7402	5322 130 42136	BC848C
3% 0,25W	3479	4822 051 10683	68k 2% 0,25W	3628	4822 051 10473	47k 2% 0,25W	6306	4822 130 34499	BZX79-C20	7417	4822 130 42513	BC858C
5% 1W				3629	4822 051 10473	470k 2% 0,25W	6308	4822 130 42488	BYD33D	7443	4822 130 61207	BC848
Ω 1% 0,125W	3480	4822 116 52234	100k 5% 0,5W	3630	4822 051 10103	10k 2% 0,25W	6312	4822 130 42488	BYD33D	7444	4822 130 61207	BC848
2% 0,25W	3481	4822 051 10102	1k 2% 0,25W	3631	4822 116 52297	68k 5% 0,5W	6314	4822 130 80446	LL4148			
Ω 5% 0,5W	3482	4822 051 10229	22Ω 2% 0,25W	3632	4822 051 10134	130k 2% 0,25W	6315	4822 130 80446	LL4148	7450	4822 209 73308	TDA3654Q/N3
5% 1W	3484	4822 051 10224	220k 2% 0,25W	3633	4822 051 10271	270Ω 2% 0,25W	6318	4822 130 83086	LL4150	7451	5322 130 42012	BC858A
2% 0,25W	3485	4822 051 10102	1k 2% 0,25W	3634	4822 051 10473	47k 2% 0,25W	6319	5322 130 34898	BZD23-C5V6	7469	4822 130 44283	BC636
2% 0,25W	3500	4822 116 52224	470Ω 5% 0,5W	3650	4822 051 20183	18k 5% 0,1W	6331	4822 130 30621	1N4148	7480	4822 130 42513	BC858C
2% 0,25W	3501	4822 116 52274	36k 5% 0,5W	3651	4822 051 10102	1k 2% 0,25W	6349	4822 130 80446	LL4148	7481	5322 130 42136	BC848C
Ω 5% 3W	3502	4822 116 52306	9k1 5% 0,5W	3652	4822 051 10822	8k2 2% 0,25W	6350	4822 130 80446	LL4148	7501	4822 130 63316	BSN304
2% 0,25W	3503	4822 116 52306	9k1 5% 0,5W	3653	4822 051 10104	100k 2% 0,25W	6351	4822 130 30621	1N4148	7506	4822 130 62843	2SC4288A
5% 0,5W	3504	4822 116 52176	10Ω 5% 0,5W	3654	4822 051 20183	18k 5% 0,1W	6352	4822 130 80446	LL4148	7512	4822 130 41344	BC337-40
Ω 2% 0,25W	3505	4822 116 52229	750Ω 5% 0,5W	3655	4822 051 20183	18k 5% 0,1W	6353	4822 130 80446	LL4148	7513	4822 130 41327	BC327-40
Ω 2% 0,25W	3506	4822 053 11108	1Ω 5% 2W	3656	4822 051 20222	2k2 5% 0,1W	6355	4822 130 80446	LL4148	7530	4822 130 60136	BC856
5% 0,5W	3507	4822 116 52184	10Ω 5% 0,5W	3658	4822 051 10103	10k 2% 0,25W	6356	4822 130 82345	LLZ-C22	7540	5322 130 42755	BC847C
Ω 5% 0,5W	3508	4822 116 60523	2k2	3659	4822 051 10103	10k 2% 0,25W	6357	4822 130 80446	LL4148	7541	5322 130 42755	BC847C
2% 0,25W	3508	4822 116 82773	1k8 10% 5W	3800	4822 116 52289	5k6 5% 0,5W	6370	4822 130 81512	LLZ-C6V2	7542	5322 130 42756	BC857C
Ω 2% 0,25W	3509	4822 053 20104	10k 5% 0,25W	3801	4822 051 10184	180k 2% 0,25W				7543	4822 130 60136	BC856
Ω 2% 0,25W	3511	4822 052 10128	1Ω 2% 0,33W	3802	4822 051 10104	100k 2% 0,25W	6371	4822 130 80446	LL4148	7550	4822 130 63427	BD534FI
Ω 2% 0,25W	3512	4822 051 10331	330Ω 2% 0,25W	3803	4822 051 20222	2k2 5% 0,1W	6372	4822 130 80446	LL4148	7551	4822 130 62846	ON4590
5% 0,5W	3513	4822 100 11319	4k7 30% lin	3804	4822 051 10103	10k 2% 0,25W	6373	4822 130 82583	LLZ-C9V1	7552	4822 130 62846	ON4590
5% 0,5W	3514	4822 052 10108	1Ω 5% 0,33W	3805	4822 111 41424	22Ω 5% 0,3W	6375	4822 130 80446	LL4148	7601	4822 130 61207	BC848
Ω 2% 0,25W	3516	4822 052 10108	1Ω 5% 0,33W	3806	4822 051 20222	2k2 5% 0,1W	6376	4822 130 80922	LLZ-C18	7602	5322 130 42012	BC858
Ω 2% 0,25W	3517	4822 052 11108	1Ω 5% 0,5W	3807	4822 116 52256	2k2 5% 0,5W	6403	4822 130 80446	LL4148	7603	5322 130 42012	BC858
1% 0,6W	3520	4822 052 11102	1k 5% 0,5W	3809	4822 051 10104	100k 2% 0,25W	6404	4822 130 80446	LL4148			
5% 0,5W	3521	4822 052 11102	1k 5% 0,5W	3810	4822 116 52176	10Ω 5% 0,5W	6417	4822 130 81223	LLZ-C2V4	7608	4822 130 44503	BC547C
1% 0,6W	3522	4822 117 10285	6,8Ω 5% 3W	3811	4822 116 52215	220Ω 5% 0,5W	6422	4822 130 80446	LL4148	7610	4822 130 62845	BD760F
2% 0,25W	3523	4822 116 52244	15k 5% 0,5W	4xxx	4822 051 10008	0Ω 5% 0,25W	6440	4822 130 30621	1N4148	7616	5322 130 42136	BC848C
Ω 2% 0,25W	3524	4822 116 52176	10Ω 5% 0,5W	9459	4822 116 52215	220Ω 5% 0,5W	6441	4822 130 80446	LL4148	7618	5322 130 42136	BC848C
Ω 2% 0,25W	3525	4822 116 52207	1k2 5% 0,5W	9625	4822 053 20106	10M 5% 0,25W	6451	4822 130 61219	BZX79-C10	7650	5322 130 42136	BC848C
Ω 2% 0,25W	3527	4822 051 10102	1k 2% 0,25W				6452	4822 130 42488	BYD33D	7651	5322 130 42136	BC848C
Ω 2% 0,25W	3528	4822 050 11002	1k 1% 0,4W				6480	4822 130 31554	BZX79-C4V3	7651	5322 130 42136	BC848C
Ω 5% 1W	3529	4822 051 10204	200k 2% 0,25W				6506	5322 130 32184	BYV27-50	7652	5322 130 42136	BC848C
0% lin	3530	4822 051 10474	470k 2% 0,25W	5230	4822 148 81192	SOPS transf.	6515	4822 130 42488	BYD33D	7800	5322 209 10576	4053B
Ω 2% 0,25W	3531	4822 116 52274	36k 5% 0,5W	5237	4822 526 10494	Ferrite bead	6516	4822 130 42488	BYD33D	7801	4822 130 61207	BC848
2% 0,25W	3532	4822 050 23301	330Ω 1% 0,6W	5241	4822 157 62412	27μH 10%	6526	4822 130 33531	BY229F-600	7802	4822 130 61207	BC848
3% 0,5W	3533	4822 050 23301	330Ω 1% 0,6W	5255	4822 148 81225	μSOPS transf.	6527	4822 130 83185	BY359F-1500			
2% 0,25W	3534	4822 052 10128	1Ω 2% 0,33W	5260	4822 526 10494	Ferrite bead	6529	4822 130 34329	BZX79-C43			
Ω 2% 0,25W	3535	4822 052 10128	1Ω 2% 0,33W	5308	4822 157 70001	180μH 10%	6534	4822 130 82512	BYV29F-400			
Ω 2% 0,25W	3536	4822 053 10331	330Ω 5% 1W	5310	4822 157 63301	1μH 15%	6536	4822 130 82758	BYV29F-300			
2% 0,25W	3538	4822 050 21303	13k 1% 0,6W	5381	4822 157 52265	100μH 10%	6542	4822 130 42488	BYD33D			
2% 0,25W	3539	4822 052 10108	1Ω 5% 0,33W	5503	4822 157 63252	Line driver	6546	4822 130 80446	LL4148			
2% 0,25W	3540	4822 116 52267	30k 5% 0,5W	5505	4822 157 51588	0,82μH 20%	6547	4822 130 30621	1N4148			
2% 0,25W	3541	4822 116 52272	330k 5% 0,5W	5506	4822 157 51588	0,82μH 20%	6551	4822 130 83004	BZX79-A3V9			
2% 0,25W	3542	4822 051 10104	100k 2% 0,25W	5507	4822 157 63506	0,09μH	6570	4822 130 80922	LLZ-C18			
2% 0,25W	3543	4822 051 20222	2k2 5% 0,1W	5510	4822 157 62886	33μH 10%	6611	4822 130 81027	LLZ-C11			
2% 0,25W	3544	4822 051 10332	3k3 2% 0,25W	5511	4822 157 52407	39μH 7,5%	6633	4822 130 81512	LLZ-C6V2			
2% 0,25W	3544	4822 051 10393	39k 2% 0,25W	5520	4822 157 63846	linearity corr. 28"	6650	4822 130 82583	LLZ-C9V1			
2% 0,25W	3545	4822 116 52208	130Ω 5% 0,5W	5520	4822 156 50091	linearity corr. 32"	6650	4822 130 82583	LLZ-C9V1			
2% 0,25W	3546	4822 051 10104	100k 2% 0,25W	5521	4822 157 70871	Bridge coil 28"	6651	4822 130 80446	LL4148			
30% lin	3547	4822 051 10109	10Ω 2% 0,25W	5521	4822 157 70869	Bridge coil 32"	6651	4822 130 80446	LL4148			
Ω 2% 0,25W	3548	4822 051 10392	3k9 2% 0,25W	5524	4822 526 10494	Ferrite bead	6651	4822 130 80446	LL4148			
5% 0,5W	3549	4822 051 10124	120k 2% 0,25W	5525	4822 157 52392	27μH 10%	6801	4822 130 80446	LL4148			
30% lin	3550	4822 051 10132	1k3 2% 0,25W	5526	4822 157 63513	E/W coil	6802	5322 130 34337	BAV99			
Ω 2% 0,25W	3551	4822 051 10151	150Ω 2% 0,25W	5527	4822 157 70472	0,56μH 20%	6803	4822 130 80446	LL4148			
5% 0,5W	3552	4822 116 52207	1k2 5% 0,5W	5534	4822 158 10551	27μH 7,5%	6804					

# Spare parts list / Stükliste / Liste des pièces

2004	4822 122 32142	270pF 2% 63V	2331	4822 122 32891	68nF 10% 63V	2609	4822 121 43396	120nF 5% 63V	3306	4822 051 10823	82k 2% 0,25W	3459	4822 116 81
2005	4822 122 32142	270pF 2% 63V				2610	4822 124 41576	2,2µF 20% 50V	3308	4822 053 12151	150Ω 5% 3W	3460	4822 053 11
2007	4822 122 31797	22nF 10% 63V	2351	4822 121 41854	150nF 5% 63V	2611	4822 124 41576	2,2µF 20% 50V				3461	4822 116 81
2008	4822 122 31797	22nF 10% 63V	2360	4822 122 31981	33nF 5% 50V	2613	4822 122 31784	4,7µF 10% 50V	3309	4822 051 10103	10k 2% 0,25W	3462	4822 116 81
2009	4822 126 11175	22pF 5% 50V	2361	4822 121 42589	82nF 5% 63V	2626	4822 122 32566	3,9nF 10% 63V	3310	4822 116 52184	18Ω 5% 0,5W	3463	4822 116 81
2010	5322 122 33446	3,3nF 10% 63V	2365	5322 122 32838	82nF 10% 63V				3311	4822 051 10471	470Ω 2% 0,25W	3465	4822 051 11
2011	4822 122 31775	680pF 2% 63V	2372	5322 121 42502	390nF 5% 63V				3312	4822 051 10101	100Ω 2% 0,25W	3466	4822 116 5
			2376	5322 124 41378	33µF 20% 35V				3313	4822 116 52184	18Ω 5% 0,5W		
2011	4822 122 32566	3,9nF 10% 63V	2380	4822 122 33496	100nF 10% 63V				3314	4822 116 52175	100Ω 5% 0,5W	3468	4822 116 5
2012	4822 122 32927	220nF 20% 50V	2381	4822 122 33496	100nF 10% 63V				3317	4822 051 10682	6k8 2% 0,25W	3466	4822 116 5
2013	4822 122 32927	220nF 20% 50V	2382	4822 122 33496	100nF 10% 63V				3320	4822 051 10471	470Ω 2% 0,25W	3467	4822 100 2
2014	5322 122 33446	3,3nF 10% 63V	2386	5322 122 31647	1nF 10% 63V				3321	4822 051 10471	470Ω 2% 0,25W	3468	4822 053 1
2015	4822 124 42109	22µF 10% 50V							3322	4822 051 10471	470k 2% 0,25W	3469	4822 050 1
2016	4822 124 42109	22µF 10% 50V	2401	4822 122 32542	47nF 10% 63V				3331	4822 116 52267	30k 5% 0,5W	3469	4822 116 5
2018	4822 122 31797	22nF 10% 63V	2402	4822 124 41576	2,2µF 20% 50V				3332	4822 116 52233	10k 5% 0,5W	3471	4822 051 1
2019	4822 126 12816	10nF 20% 100V	2403	5322 124 41431	22µF 20% 35V				3351	4822 052 11279	27Ω 5% 0,5W	3471	4822 051 2
2020	4822 126 12816	10nF 20% 100V	2404	4822 124 40246	4,7µF 20% 63V				3356	4822 051 10681	680Ω 2% 0,25W	3473	4822 116 5
2021	4822 126 12816	10nF 20% 100V	2405	4822 122 31759	18nF				3357	4822 050 21542	1k54 1% 0,6W		
			2406	4822 122 32542	47nF 10% 63V				3358	4822 116 52183	16Ω 5% 0,5W	3479	4822 051 1
2022	4822 126 11966	100pF 10% 500V	2407	4822 121 51091	1,2nF 2% 250V				3359	4822 050 21602	1k6 1% 0,6W	3480	4822 116 5
2022	4822 126 12816	10nF 20% 100V	2408	4822 122 32153	1,8nF 10% 63V				3360	4822 051 10122	1k2 2% 0,25W	3481	4822 051 1
2023	5322 122 33446	3,3nF 10% 63V	2408	4822 126 11823	270pF 10% 500V				3362	4822 051 10151	150Ω 2% 0,25W	3482	4822 051 1
2024	5322 122 33446	3,3nF 10% 63V	2409	4822 122 31797	22nF 10% 63V				3364	4822 051 10471	470Ω 2% 0,25W	3483	4822 051 1
2025	4822 122 10167	22nF 30% 25V										3484	4822 051 1
2026	4822 122 32927	220nF 20% 50V	2410	4822 121 41854	150nF 5% 63V				3365	4822 051 10221	220Ω 2% 0,25W	3485	4822 051 1
2027	4822 122 32927	220nF 20% 50V	2411	4822 121 41854	150nF 5% 63V				3366	4822 051 10221	220Ω 2% 0,25W	3495	4822 053 1
2028	4822 122 32927	220nF 20% 50V	2412	4822 126 11966	100µF 10% 500V				3368	4822 053 10271	270Ω 5% 1W	3500	4822 116 5
2029	4822 122 32927	220nF 20% 50V	2415	4822 122 32542	47nF 10% 63V				3370	4822 051 10332	3k3 2% 0,25W	3501	4822 051 1
2030	4822 126 11175	22pF 5% 50V	2416	4822 122 33496	100nF 10% 63V				3371	4822 100 11348	1k 30% lin		
			2417	4822 122 32808	1,2nF 10% 63V				3372	4822 051 10561	560Ω 2% 0,25W	3502	4822 116 5
2031	4822 126 11175	22pF 5% 50V	2418	4822 122 31797	22nF 10% 63V				3374	4822 116 52301	75k 5% 0,5W	3503	4822 116 5
2032	4822 122 31797	22nF 10% 63V	2419	4822 124 40849	330µF 20% 16V				3375	4822 051 10242	2k4 2% 0,25W	3504	4822 053 1
2033	4822 122 10167	22nF 30% 25V	2450	4822 122 32442	10nF 50V				3376	4822 116 52175	100Ω 5% 0,5W	3504	4822 116 5
2034	4822 122 32862	10nF 30% 50V	2451	4822 122 31746	1nF 2% 63V				3378	4822 051 10101	100Ω 2% 0,25W	3505	4822 116 5
2035	4822 122 31775	680pF 2% 63V										3505	4822 116 5
2035	4822 122 32566	3,9nF 10% 63V	2452	4822 124 41716	220µF 20% 35V				3380	4822 051 10152	1k5 2% 0,25W	3506	4822 053 1
2036	4822 051 10008	0Ω 5% 0,25W	2455	4822 122 31746	1nF 2% 63V				3381	4822 051 10152	1k5 2% 0,25W	3506	4822 053 1
2036	4822 122 31773	560pF 2% 63V	2456	4822 124 41184	390µF 20% 63V				3382	4822 051 10103	10k 2% 0,25W	3507	4822 116 5
2037	4822 122 31773	560pF 2% 63V	2458	4822 124 41747	680µF 20% 35V				3383	4822 051 10103	10k 2% 0,25W	3507	4822 116 5
2038	4822 122 31644	2,2nF 10% 63V	2456	5322 124 41468	1000µF 20% 40V				3385	4822 051 10223	22k 2% 0,25W		
			2457	4822 124 42249	1µF 10% 50V				3402	4822 051 10562	5k6 2% 0,25W	3508	4822 116 5
2039	4822 122 31765	100pF 2% 63V	2457	4822 124 42251	1,5µF 10% 50V				3403	4822 051 10229	22Ω 2% 0,25W	3508	4822 116 5
2040	4822 122 32927	220nF 20% 50V	2458	4822 122 31797	2,2nF 10% 63V				3404	4822 051 10182	1k8 2% 0,25W	3509	4822 053 1
2041	4822 122 32927	220nF 20% 50V	2459	4822 122 32891	68nF 10% 63V				3405	4822 051 10332	3k3 2% 0,25W	3510	4822 113 3
2043	4822 122 32927	220nF 20% 50V							3408	4822 051 10333	33k 2% 0,25W	3512	4822 051 1
2044	4822 122 32927	220nF 20% 50V	2460	4822 122 33496	100nF 10% 63V				3410	4822 100 11483	10k 30% lin	3513	4822 100
2046	4822 122 32927	220nF 20% 50V	2480	4822 124 80214	22µF 20% 25V				3407	4822 051 10561	560Ω 2% 0,25W	3514	4822 116 5
2047	4822 122 32927	220nF 20% 50V	2502	4822 121 41689	100nF 10% 250V				3408	4822 051 10563	56k 2% 0,25W	3515	4822 052
2049	4822 051 10008	0Ω 5% 0,25W	2503	4822 126 11157	470pF 10% 500V				3409	4822 116 52292	560k 5% 0,5W	3516	4822 052
2049	4822 122 31765	220pF 2% 63V	2504	4822 122 20054	270pF 10% 2kV				3410	4822 100 11213	22k 30% lin	3517	4822 052
2050	4822 124 40433	47µF 20% 25V	2504	4822 126 12239	560pF 10% 2kV				3411	4822 051 10104	100k 2% 0,25W	3518	4822 116
			2505	4822 122 20054	270pF 10% 2kV				3411	4822 051 10124	120k 2% 0,25W	3519	4822 116
2051	4822 124 40433	47µF 20% 25V	2505	4822 126 11254	330pF 10% 2kV				3412	4822 051 10753	75k 2% 0,25W	3520	4822 051
2052	4822 124 40433	47µF 20% 25V	2505	4822 126 12269	680pF 10% 2kV				3413	4822 051 10101	100Ω 2% 0,25W	3521	4822 052
2053	4822 124 40433	47µF 20% 25V	2507	4822 121 42408	220nF 5% 63V				3414	4822 051 10154	105k 2% 0,25W	3522	4822 052
2056	4822 122 31773	560pF 2% 63V										3524	4822 116
2057	4822 122 31773	560pF 2% 63V	2509	4822 126 12273	1200pF 10% 2kV				3415	4822 100 11392	47k 30% lin	3525	4822 116
2058	4822 122 31773	560pF 2% 63V	2511	4822 121 43368	47µF 160V				3416	4822 116 81223	1M2 5%	3526	4822 053
2059	4822 122 31773	560pF 2% 63V	2512	4822 124 41596	22µF 20% 50V				3417	4822 116 81226	2k2 5% 0,5W	3527	4822 051
2060	4822 122 31773	560pF 2% 63V	2513	4822 124 41596	22µF 20% 50V				3418	4822 051 10201	200Ω 2% 0,25W	3528	4822 050
2065	4822 126 11156	684nF 20%	2517	4822 126 11157	470pF 10% 500V				3419	4822 052 10229	22Ω 5% 0,33W		
2066	4822 126 11156	684nF 20%	2518	4822 124 22449	4,7µF 30% 350V				3420	4822 050 23905	3M9 1% 0,6W	3528	4822 116
			2519	4822 124 80341	1µF 20% 160V				3420	4822 116 52305	820k 5% 0,5W	3528	4822 116
2070	4822 124 40272	33µF 20% 16V	2520	4822 121 51527	390nF 5% 250V				3421	4822 116 52263	2k7 5% 0,5W	3529	4822 051
2071	4822 124 23489	33µF 20% 25V	2520	4822 121 51528	470nF 5% 250V				3422	4822 116 81223	1M2 5%	3530	4822 051
2072	4822 124 41584	100µF 20% 10V	2521	4822 121 51563	560nF 5% 250V				3422	4822 116 81783	1M5 5% 0,5W	3531	4822 116
2073	4822 124 21212	15µF 20% 40V							3422	4			

Table with 3 columns: Part number, Description, and Value. Includes various electronic components like resistors, capacitors, and diodes.

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Small signal panel [C] [D] [F] [H] with a grid of component values and descriptions for various IC sockets.



3327	4822 051 10122	1k2 2% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3338	4822 051 10391	390Ω 2% 0,25W
3339	4822 051 10153	15k 2% 0,25W
3342	4822 051 20222	2k2 5% 0,1W
3344	4822 051 10273	27k 2% 0,25W
3345	4822 051 10102	1k 2% 0,25W
3346	4822 051 10102	1k 2% 0,25W
3348	4822 051 10472	4k7 2% 0,25W
3350	4822 051 51201	120Ω 1% 0,125W
3351	4822 051 10472	4k7 2% 0,25W
3353	4822 051 10332	3k3 2% 0,25W
3360	4822 052 10278	2Q7 5% 0,33W
3361	4822 051 10102	1k 2% 0,25W
3365	4822 051 10331	330Ω 2% 0,25W
3365	4822 051 10332	3k3 2% 0,25W
3369	4822 051 10331	330Ω 2% 0,25W
3370	4822 100 11391	330Ω 30% lin
3371	4822 051 10431	430Ω 2% 0,25W
3372	4822 051 10331	330Ω 2% 0,25W
3375	4822 116 80176	1Ω 5% 0,5W
3377	4822 051 10682	6k8 2% 0,25W
3380	4822 050 11002	1k 1% 0,4W
3382	4822 051 20222	2k2 5% 0,1W
3383	4822 051 10333	33k 2% 0,25W
3387	4822 050 11002	1k 1% 0,4W
3389	4822 051 10182	1k8 2% 0,25W
3391	4822 051 20222	2k2 5% 0,1W
3392	4822 051 10101	100Ω 2% 0,25W
3393	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10101	100Ω 2% 0,25W
3395	4822 051 10471	470Ω 2% 0,25W
3396	4822 051 20222	2k2 5% 0,1W
3397	4822 052 10249	24Ω 5% 0,33W
3397	4822 116 81192	12Ω 5% 0,3W
3398	4822 116 52175	100Ω 5% 0,5W
3399	4822 116 52175	100Ω 5% 0,5W
3401	4822 052 10339	33Ω 2% 0,33W
3425	4822 116 52224	470Ω 5% 0,5W
3426	4822 116 52224	470Ω 5% 0,5W
3439	4822 051 10221	220Ω 2% 0,25W
3441	4822 051 10221	220Ω 2% 0,25W
3443	4822 051 10221	220Ω 2% 0,25W
3450	4822 051 20222	2k2 5% 0,1W
3451	4822 051 10103	10k 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3453	4822 051 10511	510Ω 2% 0,25W
3454	4822 051 10101	100Ω 2% 0,25W
3455	4822 051 10101	100Ω 2% 0,25W
3456	4822 051 10101	100Ω 2% 0,25W
3465	4822 051 10102	1k 2% 0,25W
3466	4822 051 10479	47Ω 2% 0,25W
3471	4822 116 52233	10k 5% 0,5W
3472	4822 051 10682	6k8 2% 0,25W
3473	4822 051 10362	3k6 2% 0,25W
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
3477	4822 116 52297	68k 5% 0,5W
3478	4822 116 52224	470Ω 5% 0,5W
3479	4822 051 10008	0Ω 5% 0,25W
3479	4822 051 10223	22k 2% 0,25W
3480	4822 052 10278	2Q7 5% 0,33W
3481	4822 052 10278	2Q7 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
3600	4822 051 10301	300Ω 2% 0,25W
3600	4822 051 10362	3k6 2% 0,25W
3602	4822 100 11212	2k2 30% lin
3603	4822 051 10108	1Ω 5% 0,25W
3603	4822 051 10332	3k3 2% 0,25W
3604	4822 051 10182	1k8 2% 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
3642	4822 051 10184	180k 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	5Ω 2% 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	8Ω 2% 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	8Ω 2% 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
3997	4822 122 31947	100nF 20% 63V
4xxx	4822 051 10008	0Ω 5% 0,25W
9104	4822 116 52191	33E 5% 0,5W
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%
5330	4822 157 62823	26μH 6%
5331	4822 152 20678	33μH 10%
5332	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%
6112	4822 130 82334	BAS85
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
6137	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
6170	4822 130 80446	LL4148
6172	4822 130 80906	LLZ-C7V5
6173	4822 130 80446	LL4148
6178	4822 130 81222	LLZ-C15
6179	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
6331	4822 130 80882	LLZ-C3V9
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
6471	4822 130 30621	1N4148
6478	4822 130 82345	LLZ-C22
6478	4822 130 82346	LLZ-C27

6479	4822 130 80877	BAV103
6480	4822 130 82882	LLZ-F8V2
6481	4822 130 80881	LLZ-C33
6610	4822 130 30621	1N4148
6611	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
7110	4822 130 42513	BC858C
7119	5322 130 41982	BC848B
7120	5322 130 41982	BC848B
7121	4822 130 42513	BC858C
7137	4822 209 32283	ST24C08CB1
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
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
7330	5322 130 42136	BC848C
7331	5322 130 42136	BC848C
7332	5322 130 42136	BC848C
7333	5322 130 42136	BC848C
7335	4822 130 42513	BC858C
7336	5322 130 42136	BC848C
7338	5322 130 41982	BC848B
7340	4822 130 60887	BF840
7350	5322 130 41982	BC848B
7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 31714	TDA4661/V2
7390	4822 130 42513	BC858C
7395	4822 209 30394	TDA8443B/C1
7430	4822 209 31592	TDA4680/V6
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C
7480	4822 130 63528	BD533P
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
4822 26		

1100	4822 255 41325	Led holder FL4
1100	4822 212 23281	IR receiver FL2
1100	4822 212 31399	IR receiver FL4

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
3188	4822 051 10101	100Ω 2% 0,25W
3189	4822 051 10101	100Ω 2% 0,25W
3198	4822 051 10181	180Ω 2% 0,25W
3199	4822 051 10181	180Ω 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

5100	4822 157 53906	47µH
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6128	4822 130 80313	TLHG4400
6129	4822 130 83414	TLHR4405

7128	5322 130 42012	BC858
7128	5322 130 41983	BC858B
7129	5322 130 42012	BC858
7129	5322 130 41983	BC858B
7130	5322 130 42136	BC848C

4822 267 40666	3P
4822 265 30985	3P black
4822 265 41335	11P

1005	4822 212 31265	Connector panel FL2
1005	4822 212 31405	Connector panel FL4
4822 267 20454	Socket headph.+cinch+SV HS FL2	
4822 267 20462	Socket headph.+cinch+SV HS FL4	

2241	4822 121 42408	220nF 5% 63V
2640	5322 122 31842	330pF 2% 63V
2640	4822 121 70438	330pF 5% 100V
2644	5322 122 31842	330pF 2% 63V
2644	4822 121 70438	330pF 5% 100V
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
3641	4822 051 10223	22k 2% 0,25W
3644	4822 051 10102	1k 2% 0,25W
3645	4822 051 10223	22k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

4822 264 40207	3P male
4822 265 20509	2P grey

1060	4822 212 31004	North/South panel
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2450	4822 121 51049	15nF 1% 63V
2452	4822 121 41857	10nF 5% 250V
2453	5322 121 42386	100nF 5% 63V

3452	4822 116 52175	100Ω 5% 0,5W
3453	4822 116 52195	47Ω 5% 0,5W
3454	4822 116 52283	4k7 5% 0,5W
3455	4822 116 52283	4k7 5% 0,5W
3456	4822 116 52264	27k 5% 0,5W
3457	4822 116 52264	27k 5% 0,5W
3459	4822 053 11108	1Ω 5% 2W
3460	4822 116 52217	270Ω 5% 0,5W
3461	5322 100 11542	4k7 30% lin
3462	4822 116 52207	1k2 5% 0,5W

5450	4822 157 62336	100µH 10%
5452	4822 157 71033	N/S correction coil

6452	4822 130 30621	1N4148
6453	5322 130 34834	BZX79-C3V6
6454	4822 130 34499	BZX79-C20
6455	4822 130 30621	1N4148

7450	4822 130 63441	J108
7451	4822 130 63441	J108

4822 265 20509	2P grey
4822 265 40818	8P male
4822 264 40207	3P male
4822 267 41143	3P male
4822 267 40666	3P male blue

1041	4822 212 31327	Scaven panel FL2.24 28"
1041	4822 212 31258	Scaven panel FL2.24 32"
1041	4822 212 31259	Scaven panel FL2.X6

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
2611	4822 122 33496	100nF 10% 63V
2612	4822 122 33496	100nF 10% 63V
2620▲	4822 122 32442	10nF 50V
2622▲	4822 122 32442	10nF 50V
2623	4822 122 33496	100nF 10% 63V
2624▲	4822 122 32442	10nF 50V

2625	4822 124 40255	100µF 20% 63V
2634▲	4822 122 32442	10nF 50V
2636	4822 122 33496	100nF 10% 63V
2637	4822 122 33496	100nF 10% 63V
2638	4822 122 33496	100nF 10% 63V
2639	4822 122 33496	100nF 10% 63V
2642▲	4822 122 32442	10nF 50V
2646	4822 122 33496	100nF 10% 63V
2647	4822 124 40255	100µF 20% 63V
2661	4822 124 41596	22µF 20% 50V
2671	4822 122 31727	470pF 2% 63V
2671	4822 122 31775	680pF 2% 63V
2671	4822 122 31727	470pF 2% 63V
2672	4822 122 31727	470pF 2% 63V
2672	4822 122 31775	680pF 2% 63V
2672	4822 122 31727	470pF 2% 63V

3401	4822 051 10104	100k 2% 0,25W
3402	4822 051 10104	100k 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
3421	4822 051 10473	47k 2% 0,25W
3422▲	4822 051 10103	10k 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 11821	820Ω 5% 2W
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
3606	4822 051 10478	4Ω 7% 0,25W
3608	4822 051 10478	4Ω 7% 0,25W
3609▲	4822 052 10478	4Ω 7% 0,25W
3610▲	4822 052 10478	4Ω 7% 0,33W
3612	4822 051 10478	4Ω 7% 0,25W
3613	4822 051 10478	4Ω 7% 0,25W
3614	4822 051 10478	4Ω 7% 0,25W
3615▲	4822 050 24708	4Ω 7% 0,6W
3630▲	4822 053 10681	680Ω 5% 1W
3632	4822 116 52224	470Ω 5% 0,5W
3633	4822 051 10152	1k5 2% 0,25W
3634	4822 051 10132	1k3 2% 0,25W
3635	4822 051 10339	33Ω 2% 0,25W

3637	4822 116 52224	470Ω 5% 0,5W
3638▲	4822 053 10681	680Ω 5% 1W
3640	4822 051 10473	47k 2% 0,25W
3641	4822 051 10152	1k5 2% 0,25W
3642	4822 051 10132	1k3 2% 0,25W
3643	4822 051 10339	33Ω 2% 0,25W
3645▲	4822 052 10479	47Ω 5% 0,33W
3647▲	4822 052 10479	47Ω 5% 0,33W
3648	4822 051 10681	680Ω 2% 0,25W
3649	4822 051 10243	24k 2% 0,25W

3650	4822 051 10122	1k2 2% 0,25W
3652	4822 051 10331	330Ω 2% 0,25W
3653	4822 051 10471	470Ω 2% 0,25W
3654	4822 051 10331	330Ω 2% 0,25W
3655	4822 051 10471	470Ω 2% 0,25W
3656	4822 051 10331	330Ω 2% 0,25W
3657	4822 051 10471	470Ω 2% 0,25W
3658	4822 051 10331	330Ω 2% 0,25W
3659	4822 051 10471	470Ω 2% 0,25W
3661	4822 051 10104	100k 2% 0,25W
3670	4822 051 10822	8k2 2% 0,25W
3671	4822 051 10822	8k2 2% 0,25W
3672	4822 051 10102	1k 2% 0,25W
3998	4822 051 10399	39Ω 2% 0,25W
3998	4822 051 10479	47Ω 2% 0,25W
3998	4822 051 10569	56Ω 2% 0,25W

5612	4822 157 63507	0,18µH
5614	4822 157 63507	0,18µH

6426	4822 130 80906	LLZ-C7V5
6427	4822 130 80906	LLZ-C7V5
6610	4822 130 80884	LLZ-C5V1
6616	4822 130 80884	LLZ-C5V1
6625	4822 130 80446	LL4148
6630	4822 130 80446	LL4148
6638	4822 130 80446	LL4148
6647	4822 130 80446	LL4148
6661	4822 130 80446	LL4148
6662	4822 130 80446	LL4148

7401	5322 130 42756	BC857C
7411	5322 130 42756	BC857C
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
7607	4822 130 42705	BC847

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

4822 265 41372	8P
4822 265 20512	2P green
4822 265 20509	2P grey
4822 265 31085	5P

4822 265 41372	8P
4822 265 20512	2P green
4822 265 20509	2P grey
4822 265 31085	5P

1042	4822 212 31262	Scaven filter FL2.24 32"
1042	4822 212 31263	Scaven filter FL2.X6
1042	4822 212 31326	Scaven filter FL2.24 28"

2501▲	4822 122 32442	10nF 50V
2502▲	4822 122 32442	10nF 50V
2503	4822 122 33496	100nF 10% 63V
2504	4822 122 33496	100nF 10% 63V
2505	5322 122 31647	1nF 10% 63V
2507	4822 124 40248	10µF 20% 63V
2508	4822 122 33496	100nF 10% 63V
2510	5322 122 31647	1nF 10% 63V
2512▲	4822 122 32442	10nF 50V
2513	4822 122 33496	100nF 10% 63V

2516	4822 122 31771	390pF 2% 63V
2517	4822 122 32082	4,7pF 5% 50V
2518	4822 122 32082	4,7pF 5% 50V
2526	4822 122 31825	27pF 2% 63V
2527	4822 122 31772	47pF 2% 63V
2528	4822 122 32504	15pF 2% 63V
2529	4822 122 33496	100nF 10% 63V
2531	4822 122 31825	27pF 2% 63V
2532	5322 122 31647	1nF 10% 63V
2538	4822 122 31965	220pF 2% 63V

2541	4822 122 31825	27pF 2% 63V
2542	5322 122 31647	1nF 10% 63V
2548	4822 122 31965	220pF 2% 63V
2550▲	4822 122 32442	10nF 50V
2560	4822 122 31797	22nF 10% 63V
2570	4822 122 31825	27pF 2% 63V

3400	4822 051 10473	47k 2% 0,25W
3410	4822 051 10473	47k 2% 0,25W
3420	4822 051 10473	47k 2% 0,25W
3500	4822 051 10821	820Ω 2% 0,25W
3500	4822 051 10102	1k 2% 0,25W

# Spare parts list / Stükliste / Liste des pièces

capvern filter 2.24 32"	5526	4822 157 53066	15µH 10%
capvern filter 2.X6	5527	4822 157 60123	6.8µH 10%
capvern filter 2.24 28"	5570	4822 157 60123	6.8µH 10%

6530	5322 130 34337	BAV99
6540	5322 130 34337	BAV99
6550	5322 130 34337	BAV99
6559	4822 130 80884	LLZ-C5V1

10nF 50V			
10nF 50V			
10nF 10% 63V			
10nF 10% 63V			
10nF 10% 63V			

10nF 10% 63V	7400	5322 130 42755	BC847C
10nF 10% 63V	7410	5322 130 42755	BC847C
10nF 10% 63V	7420	5322 130 42755	BC847C
10nF 10% 63V	7500	5322 130 42012	BC858
10nF 10% 63V	7504	4822 209 30404	NE592/N8

10pF 2% 63V	7505	4822 130 61207	BC848
10pF 2% 63V	7506	4822 130 61207	BC848
10pF 2% 63V	7507	4822 130 61207	BC848
10pF 2% 63V	7508	4822 209 73852	PMBT2369
10pF 2% 63V	7509	4822 209 73852	PMBT2369

10pF 2% 63V	7531	4822 130 61207	BC848
10pF 2% 63V	7541	4822 130 61207	BC848
10pF 2% 63V	7550	5322 130 60646	B5R57
10pF 2% 63V	7560	4822 209 63896	PCF8574AP

### DAF panel [B]

▲	4822 265 40596	2P male
	4822 267 41018	2P red
	4822 265 20509	2P grey

### Various

1043	4822 212 31261	DAF panel
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### II

2860▲	4822 126 12267	470pF 10% 2kV
2861▲	4822 126 12239	560pF 10% 2kV

### □

3301	4822 116 21221	1M A 385V VDR
3302	4822 116 21221	1M A 385V VDR

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5860	4822 148 81242	Transf. DAF
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### Panorama panel [B]

	4822 265 20509	2P grey
	4822 267 41018	2P red
	4822 267 41144	3P grey
	4822 267 41142	3P
	4822 267 41143	3P

### Various

1028	4822 212 31324	Panoramic view 32"
1028	4822 212 31325	Panoramic view 28"

### II

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
2140	4822 126 12784	22nF 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
3107	4822 052 10332	3k3 5% 0.33W
3108	4822 052 10332	3k3 5% 0.33W
3109	4822 052 10332	3k3 5% 0.33W
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

3148	4822 050 11002	1k 1% 0.4W
3149	4822 116 52175	100Ω 5% 0.5W
3198	4822 051 10333	33k 2% 0.25W
3198	4822 116 52264	27k 5% 0.5W
3199	4822 051 10333	33k 2% 0.25W
3199	4822 116 52264	27k 5% 0.5W

5110	4822 157 63256	Coil CU15
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6100▲	4822 130 32896	BYD33M
6101▲	4822 130 32896	BYD33M
6103	4822 130 34499	BZK79-C20
6120	4822 130 34233	BZK79-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]

▲	4822 265 20509	2P male grey
	4822 265 40596	2P male Vg2
	4822 267 41146	6P male
	4822 267 60379	7P male

### Various

1030	4822 212 31321	PTP 29"
1030	4822 212 31365	PTP 25"-28"-33"
1030	4822 212 31322	PTP 28" FL2.24
1030	4822 212 31323	PTP 32" FL2.24
	4822 255 70261	Socket for CRT 25"-28"-33"
	4822 267 51225	Socket for CRT 29"
	4822 267 51249	Socket for CRT 28" FL2.24
	4822 267 51248	Socket for CRT 32" FL2.24
	4822 492 70788	Spring fix IC
	4822 404 31199	Bracket

### II

2700	4822 126 11824	100pF 10% 1kV
2701	4822 122 32139	12pF 2% 63V
2701	4822 122 32507	6.8pF 5% 50V
2702	4822 122 31784	4.7nF 10% 50V
2703	4822 121 42068	33 nF 10% 400V
2704	4822 122 31746	1nF 2% 63V
2705▲	4822 124 40433	47µF 20% 25V
2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2707	4822 121 70093	33nF 5% 2kV

2708	4822 122 31773	560pF 2% 63V
2708	5322 122 31842	330pF 2% 63V
2709	4822 124 80091	4.7µF 20% 250V
2710	4822 122 31797	22nF 10% 63V
2711	4822 122 31971	10pF 2% 63V
2711	4822 122 32507	6.8pF 5% 50V
2712	4822 122 31784	4.7nF 10% 50V
2713	4822 121 42068	33 nF 10% 400V
2714	4822 122 31746	1nF 2% 63V
2715	4822 121 42068	33 nF 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	1nF 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 11398	3Ω3 5% 0.5W

3701	4822 052 11398	3Ω9 5% 0.5W
3702	4822 051 10201	200Ω 2% 0.25W
3703▲	4822 052 11108	1Ω 5% 0.5W
3703	4822 052 11398	3Ω3 5% 0.5W
3703	4822 052 11398	3Ω9 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 10333	33k 2% 0.25W
3710	4822 051 10822	8k2 2% 0.25W

3712	4822 051 10201	200Ω 2% 0.25W
3714	4822 051 10272	2k7 2% 0.25W
3714	4822 051 20222	2k2 5% 0.1W
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	8k2 2% 0.25W

3722	4822 051 10201	200Ω 2% 0.25W
3723	4822 050 11002	1k 1% 0.4W
3724	4822 051 10272	2k7 2% 0.25W
3724	4822 051 20222	2k2 5% 0.1W
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 1% 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 10203	20k 2% 0.25W

3738	4822 053 12823	82k 5% 3W
3739	4822 101 11185	47kΩ 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 10563	56k 2% 0.25W

3750	4822 051 10823	82k 2% 0.25W
3998	4822 051 10223	22k 2% 0.25W
3998	4822 051 10823	82k 2% 0.25W
4xxx	4822 051 10008	0Ω 5% 0.25W

5700	4822 157 70635	33µH 7
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# Spare parts list / Stükliste / Liste des pièces

## LFR-box [L] [M]

4822 265 61259	PLCC socket 68P
4822 265 41328	10P female

## Various

1750 4822 212 31229	LFR-box FLX.14/16
1750 4822 212 31233	LFR-box FLX.24/26
1750 4822 212 31313	LFR-box FL2.24 /58
1750 4822 212 31314	LFR-box FL2.24 /62
1001 4822 242 72572	Crystal 12 MHz
1002 4822 242 71417	Crystal 13,875 MHz

## -II-

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 40248	10µF 20% 63V
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 4822 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 31825	27pF 2% 63V
2061 4822 122 31825	27pF 2% 63V
2062 4822 122 31825	27pF 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 122 42937	2,7nF 1% 250V
2080 5322 124 41431	22µF 20% 35V
2081 4822 124 40246	4,7µF 20% 63V

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	1nF 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	1nF 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 33496	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 33496	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
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3000 4822 051 10162	1k6 2% 0,25W
3001 4822 111 41424	22k 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	4k7 1% 0,6W
3007 4822 051 10209	20k 2% 0,25W
3008 4822 051 10008	0k5 5% 0,25W
3009 4822 051 10829	82k 2% 0,25W
3011 4822 051 10101	10k0 2% 0,25W

3012 4822 051 10339	33k 2% 0,25W
3013 4822 051 52201	220k 1% 0,125W
3014 4822 051 10101	10k0 2% 0,25W
3016 4822 051 10759	75k 2% 0,25W
3017 4822 051 53601	360k 1% 0,125W

3019 4822 111 41423	18k 5% 0,3W
3020 4822 051 10181	180k 2% 0,25W
3021 4822 051 10101	10k0 2% 0,25W
3022 4822 051 10101	10k0 2% 0,25W
3023 4822 051 10008	0k5 5% 0,25W

3024 4822 051 10473	47k 2% 0,25W
3025 4822 051 10102	1k 2% 0,25W
3026 4822 051 10181	180k 2% 0,25W
3027 4822 051 10132	1k3 2% 0,25W
3028 4822 051 10221	220k 2% 0,25W
3029 4822 051 10683	68k 2% 0,25W
3030 4822 051 10681	680k 2% 0,25W
3031 4822 051 10561	560k 2% 0,25W
3032 4822 051 10561	560k 2% 0,25W
3033 4822 051 10561	560k 2% 0,25W

3034 4822 051 10759	75k 2% 0,25W
3035 4822 051 20222	2k2 5% 0,1W
3036 4822 051 10221	220k 2% 0,25W
3037 4822 111 41424	22k 5% 0,3W
3038 4822 051 10103	10k 2% 0,25W
3039 4822 051 10683	68k 2% 0,25W
3040 4822 051 10104	10k 2% 0,25W
3041 4822 051 10561	560k 2% 0,25W
3042 4822 051 10102	1k 2% 0,25W
3043 4822 051 10103	10k 2% 0,25W

3044 4822 052 10279	27k 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	56k 2% 0,25W
3049 4822 051 10229	22k 2% 0,25W
3050 4822 051 10122	1k2 2% 0,25W
3051 4822 051 10303	30k 2% 0,25W
3052 4822 051 10513	51k 2% 0,25W
3053 4822 051 10821	820k 2% 0,25W

3054 4822 100 20166	10k 30% lin
3055 4822 051 10181	180k 2% 0,25W
3055 4822 051 10221	220k 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
3059 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	470k 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	



0,25W	7026	5322 130 41982	BC848B
2% 0,25W	7027	4822 130 61207	BC848
1% 0,125W	7029	5322 130 41982	BC848B
1% 0,125W	7030	4822 130 40938	BC548
2% 0,25W	7034	4822 130 42131	BF550
0,25W	7035	4822 130 42513	BC858C
0,1W	7036	5322 130 42136	BC848C
0,25W	7037	4822 130 61207	BC848
0,1W	7038	5322 130 42136	BC848C
2% 0,25W	7039	5322 130 42136	BC948C
1% 0,125W	7040	4822 130 42131	BF550
2% 0,25W	7042	5322 130 42136	BC848C
0,25W	7060	5322 130 42136	BC848C
2% 0,25W	7120	4822 209 33289	P83C652FFP/050 V34D
2% 0,25W	7201	4822 209 32483	MSM514221A
0,25W	7202	4822 209 32483	MSM514221A
2% 0,25W	7203	4822 209 32483	MSM514221A
2% 0,25W	7204	4822 209 60525	TMS4C1050-3N
0,25W	7205	4822 209 60525	TMS4C1050-3N
0,25W	7206	4822 209 60525	TMS4C1050-3N
0,25W	7207	4822 209 31056	SDA9205-2
0,25W	7208	4822 209 31057	UPD65640G-011-3B9
2% 0,25W	7209	4822 209 31059	SAA7158
2% 0,25W	7210	4822 209 72042	MC78L05ACP
2% 0,25W	7214	4822 209 63645	SAAS231/V7
2% 0,25W	7215	4822 209 31851	SAA9042P/AMOB
2% 0,25W	7215	4822 209 33287	SAA9042P/AMOB /58
2% 0,25W	7215	4822 209 33288	SAA9042P/AMOB /62
2% 0,25W	7216	4822 209 63423	TDAS279B/N2
2% 0,25W	7217	4822 209 63644	SDA9086-3
10%	7218	5322 209 61004	N74F74D
10%	7219	4822 209 63892	UPD65636C-040
10%	7221	4822 209 83163	LM833N
10%	7231	4822 209 72042	MC78L05ACP
10%	7232	4822 209 52359	HYB514256B-70
10%	7244	5322 209 61004	N74F74D
10%	7261	4822 209 72042	MC78L05ACP

ECO-box [L']

4822 255 41312	PLCC socket 68P
4822 265 41328	10P female

Various

1750	4822 212 31392	ECO-box FL4.27	
1064	4822 242 72572	Crystal 12 MHz	
1162	4822 242 71417	Crystal 13,875	
10%	2001	4822 122 31768	180pF 2% 63V
10%	2002	4822 122 32504	150pF 2% 63V
10%	2004	4822 122 31768	180pF 2% 63V
10%	2005	4822 122 31971	10pF 2% 63V
10%	2006	4822 122 32765	820pF 2% 63V
10%	2007	4822 122 31768	180pF 2% 63V
10%	2008	4822 122 31971	10pF 2% 63V
10%	2009	4822 122 32765	820pF 2% 63V
10%	2010	4822 124 22347	47uF 20% 50V
10%	2011	4822 122 33496	100nF 10% 63V
10%	2012	4822 124 41643	100uF 20% 16V
10%	2013	4822 122 33496	100nF 10% 63V
10%	2016	4822 122 33496	100nF 10% 63V
10%	2019	4822 122 33496	100nF 10% 63V
10%	2024	4822 126 11492	220nF 10% 50V
10%	2025	4822 124 40196	220uF 20% 16V
10%	2026	4822 122 33496	100nF 10% 63V
10%	2027	4822 124 40196	220uF 20% 16V
10%	2028	4822 122 33496	100nF 10% 63V
10%	2029	4822 122 33496	100nF 10% 63V
10%	2030	4822 122 33496	100nF 10% 63V
10%	2031	4822 124 40248	10uF 20% 63V
10%	2032	4822 122 33496	100nF 10% 63V
10%	2033	4822 124 40248	10uF 20% 63V
10%	2034	4822 122 33496	100nF 10% 63V
10%	2035	4822 124 40196	220uF 20% 16V
10%	2036	4822 124 41643	100uF 20% 16V
10%	2037	4822 122 33496	100nF 10% 63V
10%	2038	4822 122 33496	100nF 10% 63V
10%	2040	4822 122 33496	100nF 10% 63V
10%	2041	4822 122 33496	100nF 10% 63V
10%	2042	4822 122 33496	100nF 10% 63V
10%	2046	4822 122 31765	100pF 2% 63V
10%	2047	4822 122 31972	39pF 2% 63V
10%	2048	4822 122 32142	270pF 2% 63V
10%	2049	4822 122 31769	18pF 2% 63V
10%	2050	4822 122 31971	10pF 2% 63V
10%	2051	4822 122 31767	150pF 2% 63V
10%	2052	4822 122 32083	8,2pF 5% 50V
10%	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 31825	27pF 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
2073	5322 122 33446	3,3nF 10% 63V
2074	4822 122 31765	100pF 2% 63V
2075	4822 122 31765	100pF 2% 63V
2083	4822 122 33496	100nF 10% 63V
2084	4822 122 31765	100pF 2% 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 40196	220uF 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	1nF 2% 63V
2126	4822 122 31746	1nF 2% 63V
2127	4822 122 33496	100nF 10% 63V
2128	4822 122 31765	100pF 2% 63V
2140	4822 122 31772	47pF 2% 63V
2141	4822 124 40248	10uF 20% 63V
2142	4822 122 32139	12pF 2% 63V
2145	4822 124 41576	2,2uF 20% 50V
2146	4822 122 32142	270pF 2% 63V
2150	4822 122 33496	100nF 10% 63V
2151	4822 124 41643	100uF 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
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	2,2uF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470uF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31825	27pF 2% 63V
2181	4822 122 31825	27pF 2% 63V
2182	4822 122 31825	27pF 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 40248	10uF 20% 63V
2211	4822 122 33496	100nF 10% 63V
3001	4822 051 10151	150Ω 2% 0,25W
3002	4822 051 10101	100Ω 2% 0,25W
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
3023	4822 051 10271	270Ω 2% 0,25W
3024	4822 051 10121	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
3075	4822 051 10102	1k 2% 0,25W
3076	4822 051 10472	4k7 2% 0,25W
3077	4822 051 10472	4k7 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10221	220Ω 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 20222	2k2 5% 0,1W
3083	4822 116 52195	47Ω 5% 0,5W
3084	4822 051 10272	2k7 2% 0,25W
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
3090	4822 051 10103	10k 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
3094	4822 051 10472	4k7 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 117 10823	2k7 1% 0,125W
3100	4822 052 10229	22Ω 5% 0,33W
3101	4822 051 10103	10k 2% 0,25W
3102	4822 051 10103	10k 2% 0,25W
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
3107	48	

# Spare parts list / Stükliste / Liste des pièces

5W	7245	4822 209 32581	SAA4970T/V1
5W	7250	4822 209 63645	SAA5231/V7
1,25W	7260	4822 209 72042	MC78L05ACP
25W	7262	5322 209 31799	PC74HC4538T
W	7265	4822 209 72042	MC78L05ACP
1,25W	7266	4822 209 63644	SDA9086-3
33W	7269	5322 209 61004	N74F74D
5W	7271	4822 209 52359	HYB514256B-70
5W	7275	4822 209 31851	SAA9042P/A/MOB

5W	7283	4822 209 52422	Eprom + software
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## PIP panel [J]

25W	4822 265 31085	5P female
1,25W	4822 265 41328	10P female
W	4822 265 20509	2P male grey
5W	4822 265 20511	2P male blue
	4822 265 30828	5P male brown
	4822 267 41145	5P male
	4822 265 30899	5P male black

## Various

1023	4822 212 30839	PIP multi 33"
1023	4822 212 30841	PIP multi 25-28"
1023	4822 212 31315	PIP multi FL2.24-32*-/58
1023	4822 212 31316	PIP multi FL2.24-32*
1023	4822 212 31317	PIP multi FL2.24-28*
1155	4822 320 40284	Delay line DL7111G
1201	4822 242 70304	Crystal 8,867 238 MHz
1212	4822 242 70736	Crystal 7,159 090 MHz
1600	4822 210 10392	UV916E
1600	4822 210 50124	UV916E/JEC
1610	4822 242 80295	Crystal OFWG3962M

## -II-

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	22pF 5% 50V
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	22nF 63V
2187	4822 126 11544	22nF 63V
2189	4822 122 31746	1nF 2% 63V

2196	4822 122 32183	56pF 10% 50V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1nF 2% 63V
2202	4822 125 50045	1p8-22p trim.
2211	4822 122 31746	1nF 2% 63V
2212	4822 125 50045	1p8-22p trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 2% 63V
2230	4822 124 40753	6,8µF 20% 63V
2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 40753	6,8µF 20% 63V
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

N2/S1	2340	4822 124 40433	47µF 20% 25V
18T/S24	2345	4822 124 40433	47µF 20% 25V
	2350	4822 124 40849	330µF 20% 16V
	2351	4822 124 41643	100µF 20% 16V
	2380	4822 122 32927	220nF 20% 50V
	2381	4822 122 32927	220nF 20% 50V
	2382	4822 122 32927	220nF 20% 50V
	2383	4822 122 32927	220nF 20% 50V
1B-30N	2384	4822 122 32927	220nF 20% 50V
1B-30N	2385	4822 122 32927	220nF 20% 50V

1B-30N	2390	4822 122 31947	100nF 20% 63V
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2399	4822 122 31746	1nF 2% 63V
2399	4822 122 31961	68pF 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
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 2% 63V
2430	4822 122 31947	100nF 20% 63V
2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 2% 63V
2441	4822 122 31727	470pF 2% 63V
2442	4822 124 40242	1µF 20% 63V
2447	5322 121 42386	100nF 5% 63V
2448	4822 122 31947	100nF 20% 63V

2449	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 122 31981	33nF 5% 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 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
2623	4822 122 31797	22nF 10% 63V

2627	4822 122 32927	220nF 20% 50V
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3kΩ 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	1kΩ 2% 0,25W
3157	4822 100 11391	330Ω 30% 1in
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k 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	5k 2% 0,25W

3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k 5% 0,5W
3228	4822 051 10472	4k 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10112	1k 2% 0,25W
3234	4822 051 10152	1k 5% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k 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	4k 7 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
3332	4822 051 10152	1k 5% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10472	4k 2% 0,25W
3337	4822 116 52207	1k 2% 0,5W
3338	4822 051 10332	3k 3% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341	4822 111 41424	22Ω 5% 0,3W
3345	4822 111 41424	22Ω 5% 0,3W

3353	4822 052 10568	50Ω 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W

3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W
3416	4822 051 10182	1k 8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W

3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k 9 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	7k 5% 0,5W
3464	4822 051 10472	4k 7 2% 0,25W
3467	4822 116 52256	2k 2 5% 0,5W
3471	4822 051 10103	10k 2% 0,25W
3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 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	1Ω 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k 7 30% lin
3611	4822 051 10332	3k 3 2% 0,25W
3612	4822 051 10272	2k 7 2% 0,25W
3613	4822 051 10103	10k 2% 0,25W

3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k 2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3617	4822 051 10751	750Ω 2% 0,25W
3618	4822 052 10568	50Ω 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k 2 5% 0,1W
3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k 7 2% 0,25W
3624	4822 051 10272	2k 7 2% 0,25W
3625	4822 051	

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
3016	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	1k2 2% 0,25W
3099	4822 051 10101	100Ω 2% 0,25W
3099	4822 051 51201	120Ω 1% 0,125W
4xxx	4822 051 10008	0Ω 5% 0,25W

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

### Combfilter panel [N]

4822 265 41337	Strip 11P
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### Various

1300	4822 212 30906	Comb filter panel
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2000	4822 122 33496	100nF 10% 63V
2001	4822 122 33496	100nF 10% 63V
2002	4822 124 40248	10µF 20% 63V
2003	4822 122 33496	100nF 10% 63V
2004	4822 124 40248	10µF 20% 63V
2005	4822 124 40242	1µF 20% 63V
2006	4822 122 33496	100nF 10% 63V
2010▲	4822 122 32442	10nF 50V
2021▲	4822 122 32442	10nF 50V
2022▲	4822 122 32442	10nF 50V

2023	4822 122 31766	120pF 2% 63V
2024▲	4822 122 32442	10nF 50V
2025▲	4822 124 40246	4,7µF 20% 63V
2026	4822 122 33496	100nF 10% 63V
2030	4822 124 40177	47µF 20% 10V
2031	4822 122 33496	100nF 10% 63V
2032	4822 124 40177	47µF 20% 10V
2033	4822 122 33496	100nF 10% 63V
2034	4822 124 40177	47µF 20% 10V
2035	4822 122 33496	100nF 10% 63V

2036▲	4822 124 40433	47µF 20% 25V
2037	4822 122 33496	100nF 10% 63V
2038	5322 122 31647	1nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2044	4822 122 33496	100nF 10% 63V
2045	4822 122 33496	100nF 10% 63V
2050	4822 124 60283	100µF 6,3V
2051	4822 126 11725	1µF 205 5V
2060	4822 122 33496	100nF 10% 63V
2070	4822 122 33496	100nF 10% 63V

2080	4822 122 31797	22nF 10% 63V
2081	4822 124 80283	100µF 6,3V
2082	4822 122 33496	100nF 10% 63V
2083	4822 122 33496	100nF 10% 63V

3000▲	4822 051 10103	10k 2% 0,25W
3001	4822 051 10124	120k 2% 0,25W
3011	4822 051 10471	470Ω 2% 0,25W
3012	4822 051 10102	1k 2% 0,25W
3013	4822 051 10182	1k8 2% 0,25W
3014	4822 051 10151	150Ω 2% 0,25W
3021	4822 051 10122	1k2 2% 0,25W
3022	4822 051 10331	330Ω 2% 0,25W
3023	4822 051 10221	220Ω 2% 0,25W
3024	4822 051 10331	330Ω 2% 0,25W

3025	4822 051 10473	47k 2% 0,25W
3026	4822 051 10479	47Ω 2% 0,25W
3027	4822 051 10471	470Ω 2% 0,25W
3028	4822 051 10479	47Ω 2% 0,25W
3029	4822 051 10102	1k 2% 0,25W
3030	4822 051 10473	47k 2% 0,25W
3031	4822 051 10102	1k 2% 0,25W
3032	4822 051 10181	180Ω 2% 0,25W
3035▲	4822 052 10108	1Ω 5% 0,33W
3036▲	4822 052 10108	1Ω 5% 0,33W

3037▲	4822 052 10108	1Ω 5% 0,33W
3038▲	4822 052 10108	1Ω 5% 0,33W
3040	4822 051 10333	33k 2% 0,25W
3041	4822 051 10822	8k2 2% 0,25W
3042	4822 051 10331	330Ω 2% 0,25W
3043	4822 051 10102	1k 2% 0,25W
3044	4822 051 10471	470Ω 2% 0,25W
3045	4822 051 10008	0Ω 5% 0,25W
3047	4822 051 10102	1k 2% 0,25W
3048	4822 051 10101	100Ω 2% 0,25W

3050	4822 051 10333	33k 2% 0,25W
3051	4822 051 10822	8k2 2% 0,25W
3052	4822 051 10331	330Ω 2% 0,25W
3053	4822 051 10911	910Ω 2% 0,25W
3054	4822 051 10471	470Ω 2% 0,25W
3055	4822 051 10008	0Ω 5% 0,25W
3057	4822 051 10102	1k 2% 0,25W
3058	4822 051 10101	100Ω 2% 0,25W
3060	4822 051 10562	5k6 2% 0,25W
3061	4822 051 10331	330Ω 2% 0,25W

3062	4822 051 10821	820Ω 2% 0,25W
3078	4822 051 10151	150Ω 2% 0,25W
3079	4822 051 10821	820Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10102	1k 2% 0,25W
3082	4822 051 10102	1k 2% 0,25W
3083	4822 051 10473	47k 2% 0,25W
3084	4822 051 10393	39k 2% 0,25W
3085	4822 051 10471	470Ω 2% 0,25W
3086	4822 051 10152	1k5 2% 0,25W

3087	4822 051 10182	1k8 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3089	4822 051 10151	150Ω 2% 0,25W
3090	4822 051 10471	470Ω 2% 0,25W
3091	4822 051 10102	1k 2% 0,25W
3092	4822 051 10223	22k 2% 0,25W
3093	4822 051 20222	2k2 5% 0,1W

43094	4822 051 10333	33k 2% 0,25W
4xxx	4822 051 10008	0Ω 5% 0,25W

5021▲	4822 157 51462	10µH 10%
5022	4822 157 63065	0,68µH 20%
5030	4822 157 51312	68µH 10%
5031	4822 157 51312	68µH 10%
5032	4822 157 51312	68µH 10%
5033	4822 157 51312	68µH 10%
5080	4822 154 10057	7,2MHz LOW-PASS

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

7000	4822 212 30906	MC141625A
7005	5322 209 10576	4053B
7010	5322 130 42136	BC848C
7021▲	5322 130 41982	BC848B
7022▲	5322 130 41982	BC848B
7023	5322 130 41983	BC858B
7024	5322 130 41983	BC858B
7040	5322 130 42136	BC848C
7041	4822 130 42513	BC858C
7042	5322 130 42136	BC848C

7050	5322 130 42136	BC848C
7051	4822 130 42513	BC858C
7052	5322 130 42136	BC848C
7062	5322 130 42136	BC848C
7080	5322 130 42136	BC848C
7081▲	5322 130 41982	BC848B
7082	5322 130 41983	BC858B
7083	4822 130 42513	BC858C
7090	5322 130 41983	BC858B
7091▲	5322 130 41982	BC848B

### Black-stretch panel [D']

4822 265 41376	Strip 13P
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### Various

1200	4822 212 31276	Black-stretch panel
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2514	4822 124 40195	150µF 20% 16V
2515	4822 124 40272	33µF 20% 16V
2516	4822 124 40849	330µF 20% 16V
2517	4822 124 40242	1µF 20% 63V
2518	4822 126 11544	22nF 63V
2519	4822 121 42408	220nF 5% 63V
2521	4822 124 40248	10µF 20% 63V
2524	4822 126 11544	22nF 63V

3511	4822 051 10102	1k 2% 0,25W
3512▲	4822 052 10688	68Ω 5% 0,33W
3513	4822 051 10511	510Ω 2% 0,25W
3514	4822 051 10152	1k5 2% 0,25W
3515	4822 051 10202	2k 2% 0,25W
3516	4822 051 10102	1k 2% 0,25W
3517	4822 051 10102	1k 2% 0,25W
3518	4822 051 10202	2k 2% 0,25W
3519	4822 051 10101	100Ω 2% 0,25W
3522	4822 051 10394	390k 2% 0,25W

3524	4822 051 10101	100Ω 2% 0,25W
3527	4822 051 10122	1k2 2% 0,25W
3532	4822 051 10911	910Ω 2% 0,25W
3533	4822 051 10681	680Ω 2% 0,25W
3550	4822 051 10101	100Ω 2% 0,25W
3552	4822 051 10008	0Ω 5% 0,25W

6500	4822 130 81513	LLZ-C6V8
6501	4822 130 81223	LLZ-C2V4

7518	4822 209 30711	CX20125
7519▲	4822 130 41344	BC337-40
7520▲	5322 130 41982	BC848B
7521	5322 130 41983	BC858B
7522▲	5322 130 41982	BC848B

7524	4822 209 63901	TDA4568/V2
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### Y/C detector [I]

4822 265 40503	5P female gold plated
4822 265 30431	3P female gold plated