

Service  
Service  
**Service**

**FL 1.14**    **FL 2.14**

**FL 1.16**    **FL 2.16**

**FL 1.17**

**AA**

# Service Manual

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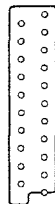
## 1. Technical data

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


## 2. Connection facilities

### Specification of the connectors

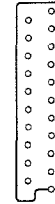
#### EXT1 (AUX): RGB+CVBS

	1 -Audio $\odot$	$R(0,5V_{RMS} \leq 1k\Omega)$
	2 -Audio $\ominus$	$R(0,5V_{RMS} \geq 10k\Omega)$
	3 -Audio $\odot$	$L(0,5V_{RMS} \leq 1k\Omega)$
	4 -Audio $\perp$	
	5 -Blue $\perp$	
	6 -Audio $\ominus$	$L(0,5V_{RMS} \geq 10k\Omega)$
	7 -Blue (0,7V <sub>pp</sub> /75 $\Omega$ )	
	8 -CVBS-status $\ominus$	0-2V: INT


4,5-7V: EXT 16:9  
9,5-12V: EXT 4:3

	9 -Green $\perp$	
	10 --	
	11 -Green (0,7V <sub>pp</sub> /75 $\Omega$ )	
	12 --	
	13 -Red $\perp$	
	14 -RGB-status	
	15 -Red (0,7V <sub>pp</sub> /75 $\Omega$ )	
	16 -RGB-status (0-0,4V: INT; 1-3V: EXT/75 $\Omega$ )	
	17 -CVBS $\perp$	
	18 -CVBS $\perp$	
	19 -CVBS $\odot$	(1V <sub>pp</sub> /75 $\Omega$ )
	20 -CVBS $\ominus$	(1V <sub>pp</sub> /75 $\Omega$ )
	21 -Earthscreens	


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

	1 -Audio $\odot$	$R(0,5V_{RMS} \leq 1k\Omega)$
	2 -Audio $\ominus$	$R(0,5V_{RMS} \geq 10k\Omega)$
	3 -Audio $\odot$	$L(0,5V_{RMS} \leq 1k\Omega)$
	4 -Audio $\perp$	
	5 -	
	6 -Audio $\ominus$	$L(0,5V_{RMS} \geq 10k\Omega)$
	7 --	
	8 -CVBS-status $\ominus$	0-2V: int


4,5-7V: EXT 16:9  
9,5-12V: EXT 4:3  
 $\ominus$  4,5 : EXT 16:9

	9 --	
	10 --	
	11 --	
	12 --	
	13 -CHROMA $\perp$	
	14 --	
	15 -CHROMA $\ominus$	(1V <sub>pp</sub> /75 $\Omega$ )
	16 --	
	17 -CVBS $\perp$	
	18 -CVBS $\perp$	
	19 -CVBS $\odot$	(1V <sub>pp</sub> /75 $\Omega$ )
	20 -CVBS/Y $\ominus$	(1V <sub>pp</sub> /75 $\Omega$ )
	21 -Earthscreens	

#### EXT3 (front)

SVHS	1 - $\perp$	
	2 - $\perp$	
	3 - Y $\ominus$	(1V <sub>pp</sub> ; 75 $\Omega$ )
	4 - C $\ominus$	(0,3V <sub>pp</sub> ; 75 $\Omega$ )

$\odot$  CINCH Video  $\ominus$  300mV<sub>pp</sub>/75 $\Omega$   
 $\odot$  CINCH Audio  $\ominus$  L(0,2 - 2V<sub>RMS</sub>;  $\geq 10k\Omega$ )  
 $\odot$  CINCH Audio  $\ominus$  R(0,2 - 2V<sub>RMS</sub>;  $\geq 10k\Omega$ )

 32-2000 $\Omega$   $\geq 10mW$   
3.5mm


#### Audio out (rear)

$\odot$ CINCH Audio	$\odot$	L(0,5V <sub>RMS</sub> ; $\leq 1k\Omega$ )
$\odot$ CINCH Audio	$\odot$	R(0,5V <sub>RMS</sub> ; $\leq 1k\Omega$ )




front : 2 x 16W / 8 $\Omega$   
rear : 2 x 6W / 8 $\Omega$

#### EXT2 (SVHS) (rear)


SVHS	1 - $\perp$	
	2 - $\perp$	
	3 - Y $\ominus$	(1V <sub>pp</sub> ; 75 $\Omega$ )
	4 - C $\ominus$	(0,3V <sub>pp</sub> ; 75 $\Omega$ )

$\odot$  CINCH Audio  $\ominus$  L(0,2 - 2V<sub>RMS</sub>;  $\geq 10k\Omega$ )  
 $\odot$  CINCH Audio  $\ominus$  R(0,2 - 2V<sub>RMS</sub>;  $\geq 10k\Omega$ )

SVHS	1 - $\perp$	
	2 - $\perp$	
	3 - Y $\odot$	(1V <sub>pp</sub> ; 75 $\Omega$ )
	4 - C $\odot$	(0,3V <sub>pp</sub> ; 75 $\Omega$ )

$\odot$ CINCH Audio	$\odot$	L(0,2 - 2V <sub>RMS</sub> ; $\leq 1k\Omega$ )
$\odot$ CINCH Audio	$\odot$	R(0,2 - 2V <sub>RMS</sub> ; $\leq 1k\Omega$ )

# Warnings and Notes

Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol 

In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx. 30s).



All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

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

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

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

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

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

After repair the wiring should be fastened once more in the cable clamps for this purpose.

In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier is connected to the -11 volts.**

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

Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (  $\perp$  ), 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 (  $\square$  ) and without aerial signal (  $\times$  ) 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.

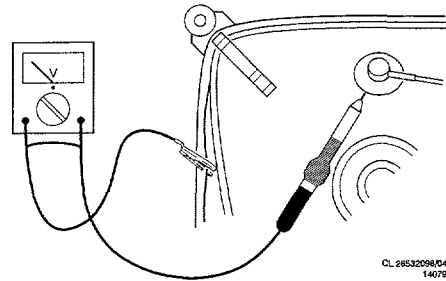
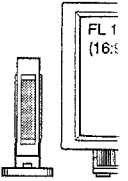
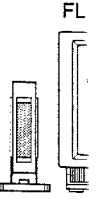


Fig. 3.1

## 4. M

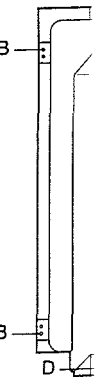
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## 1. Moc



## 2. Rem

Before subw FL1:C subw FL2:F fixed. so th: the re arrow Disco arrow prese Remc



## 4. Mechanical instructions

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

### 1. Model overview (fig.1)

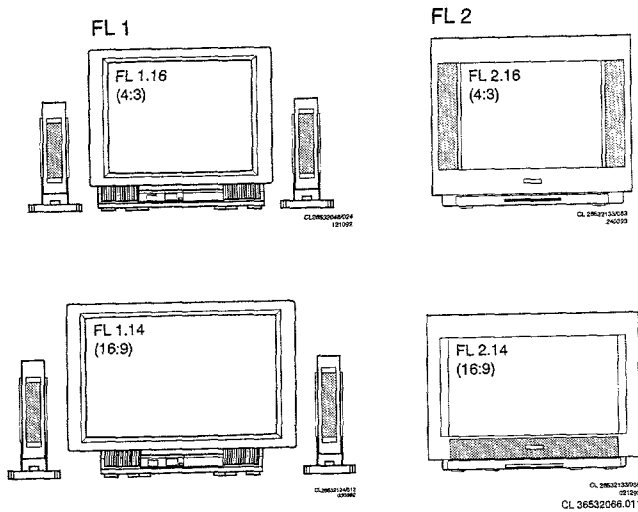


Fig.1

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

Before the rear panel is removed the connection to the subwoofer should first be disconnected:

FL1: Open the flap in the rear panel. Disconnect the subwoofer cable. (connector L36)

FL2: Remove the three screws A with which the grille is fixed. Tap the grille downwards as indicated by arrow 1, so that the grille becomes loose. Remove the grille from the rear panel by pulling it in the direction indicated by arrow 2.

Disconnect the cable from the subwoofer as indicated by arrow 3. Remove screws B and C, and also screws D if present.

Remove the rear panel from the set.

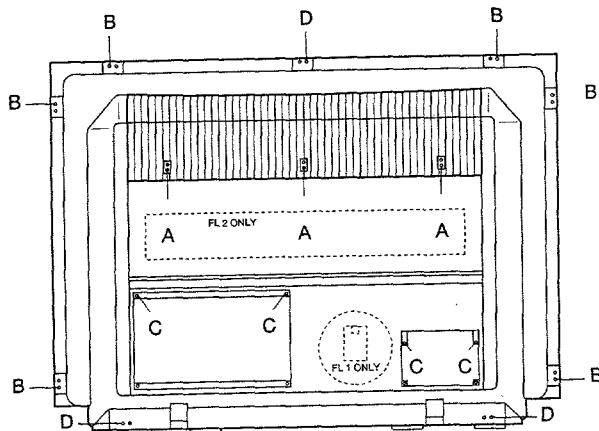


Fig.2

CL 26521231033  
220493

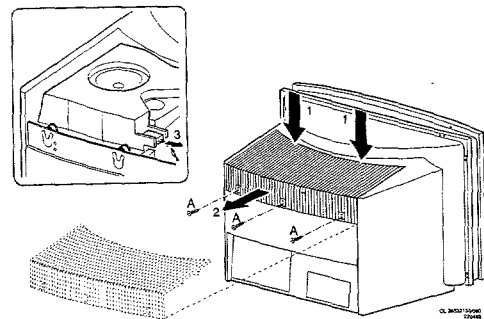


Fig.3

### 3. Service positions FL1

FL1 can be placed in two service positions. (Fig.4) Remove the rear panel.

Remove the screw behind the flap on the front side of the set.

#### Service position 1:

If present, press down the lugs with which the chassis is secured and pull both panels simultaneously to the rear, removing any hindering cables from the cable ties if necessary.

Place the panels vertically behind the set as illustrated in figure 4a.

#### Service position 2:

Disconnect connectors L01, L02 and L03 that connect the small (SSP) and large signal panel (LSP) together. Pull the panel concerned backwards out of the set. Using extension cable set 4822 320 20209 (fig.5) reconnect both panels together. Place the panel concerned behind the set as illustrated in figure 4b.

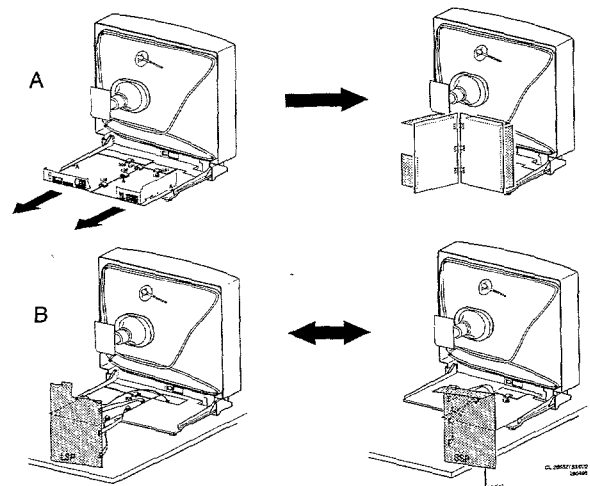


Fig.4

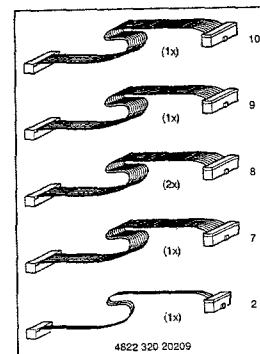


Fig.5

CL 26521231033  
220493

#### 4. Service positions FL2

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

##### Service position 1:

Disconnect connectors E47 and E48. These connectors are located on the side of the set and connect the chassis with the audio, video and headphone connections (FRONT).

Lift the chassis frame at the rear and remove it from the cabinet, removing any hindering cables from the cable ties if necessary. Place the frame one position to the rear, taking care to ensure that the chassis frame lugs are located into the correct recesses.

##### Service position 2:

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

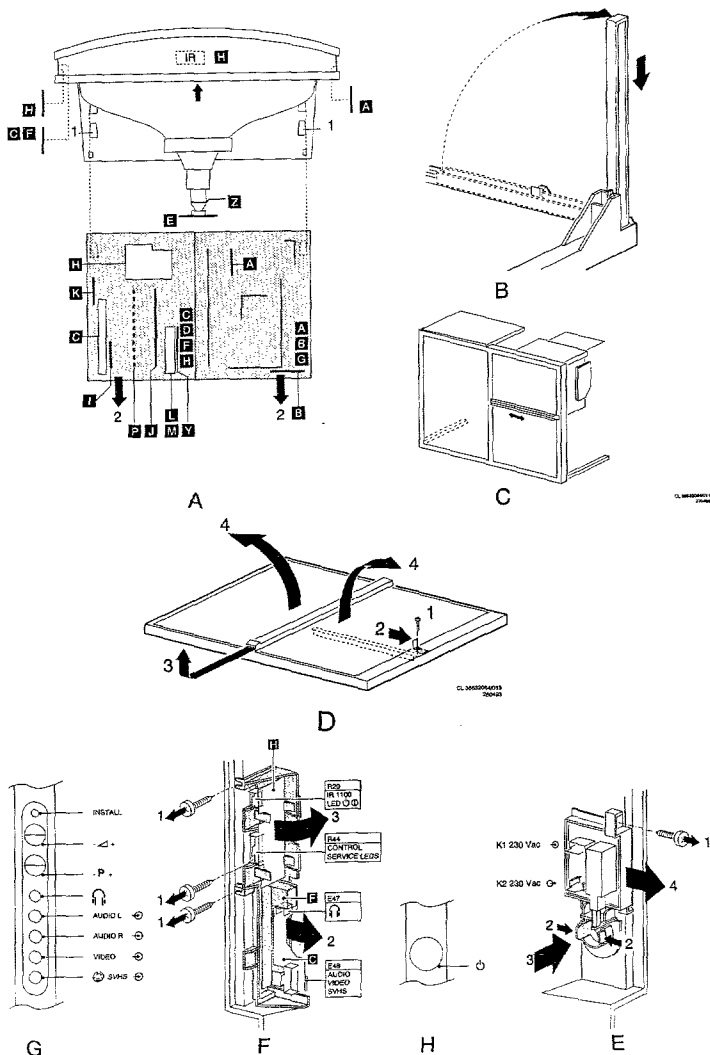


Fig.6

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

Remove the rear panel.

Remove the chassis frame with the chassis from the cabinet.

Remove screws E as indicated in the diagram. Loosen the snap connection under the picture tube. Remove the masker in the manner illustrated in the diagram.

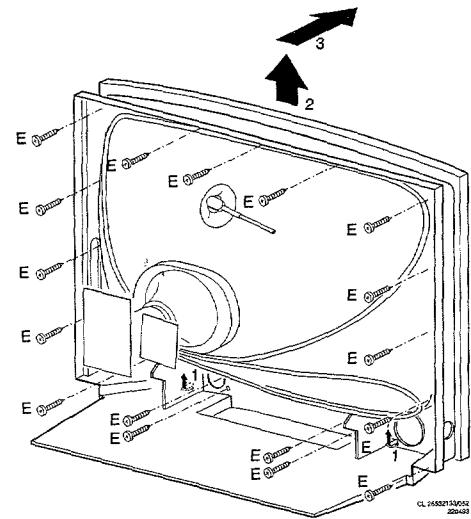


Fig.7

#### 6. Replacing the picture tube.

Remove the rear panel.

Discharge the picture tube in the manner described in chapter 3.

Remove the chassis, or the chassis with the chassis frame from the cabinet.

Disconnect all cabling to the picture tube.

Tilt the set so that the front of the picture tube is pointing downwards, taking care that the picture tube comes to rest on a soft and clean surface.

Loosen the four bolt on the picture tube corners and drop the cabinet gently down onto the work surface. The picture tube can now be removed from the cabinet.

In FL2 special nylon picture tube tubular rivets have been applied. In order to guarantee optimum strength these should not be re-used. Take care to fit correctly when replacing.

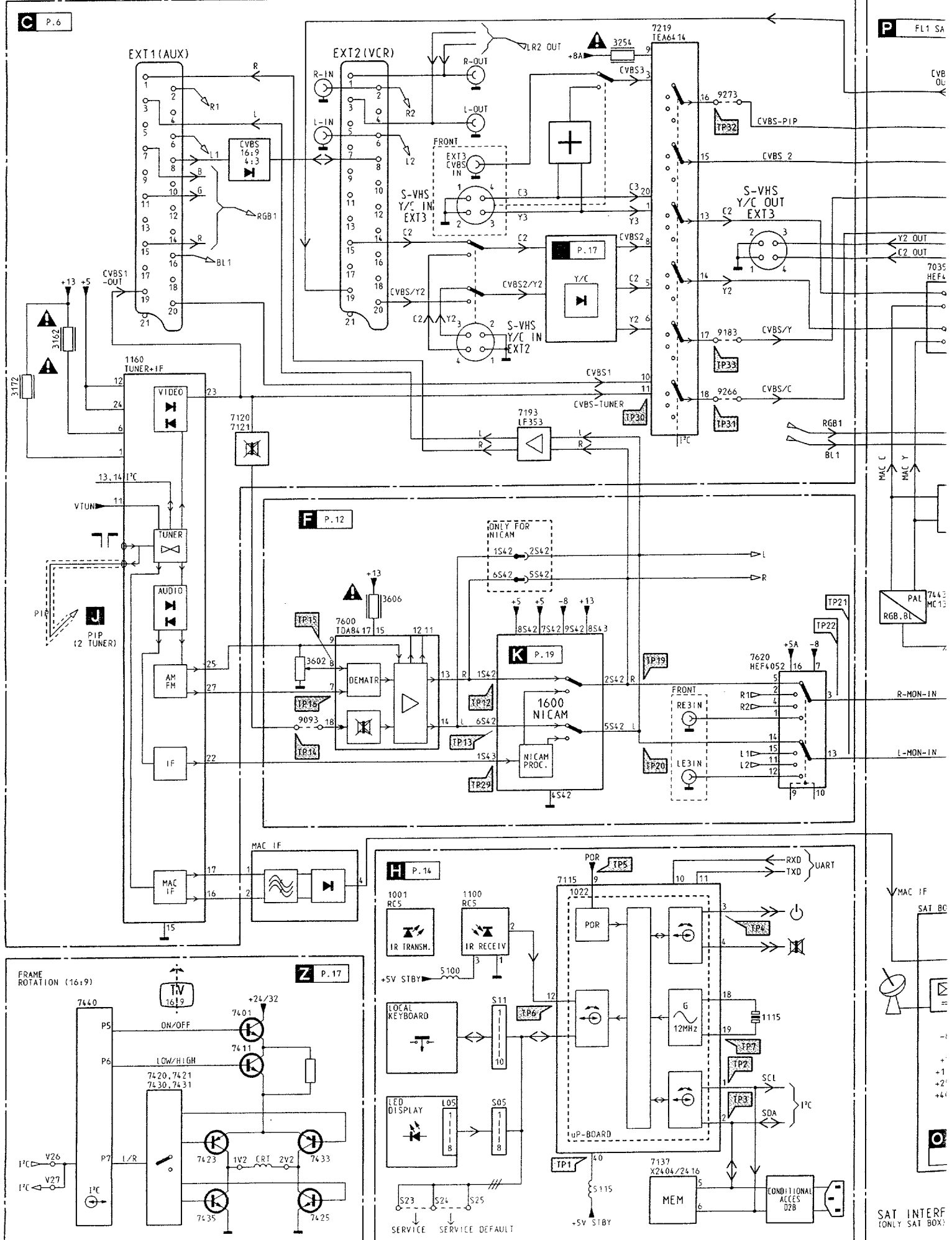
Tighten the picture tube screws one-by-one until a torque of approximately 1kgm (10Nm) is achieved. The picture tube tubular rivets are obtainable under code numbers:

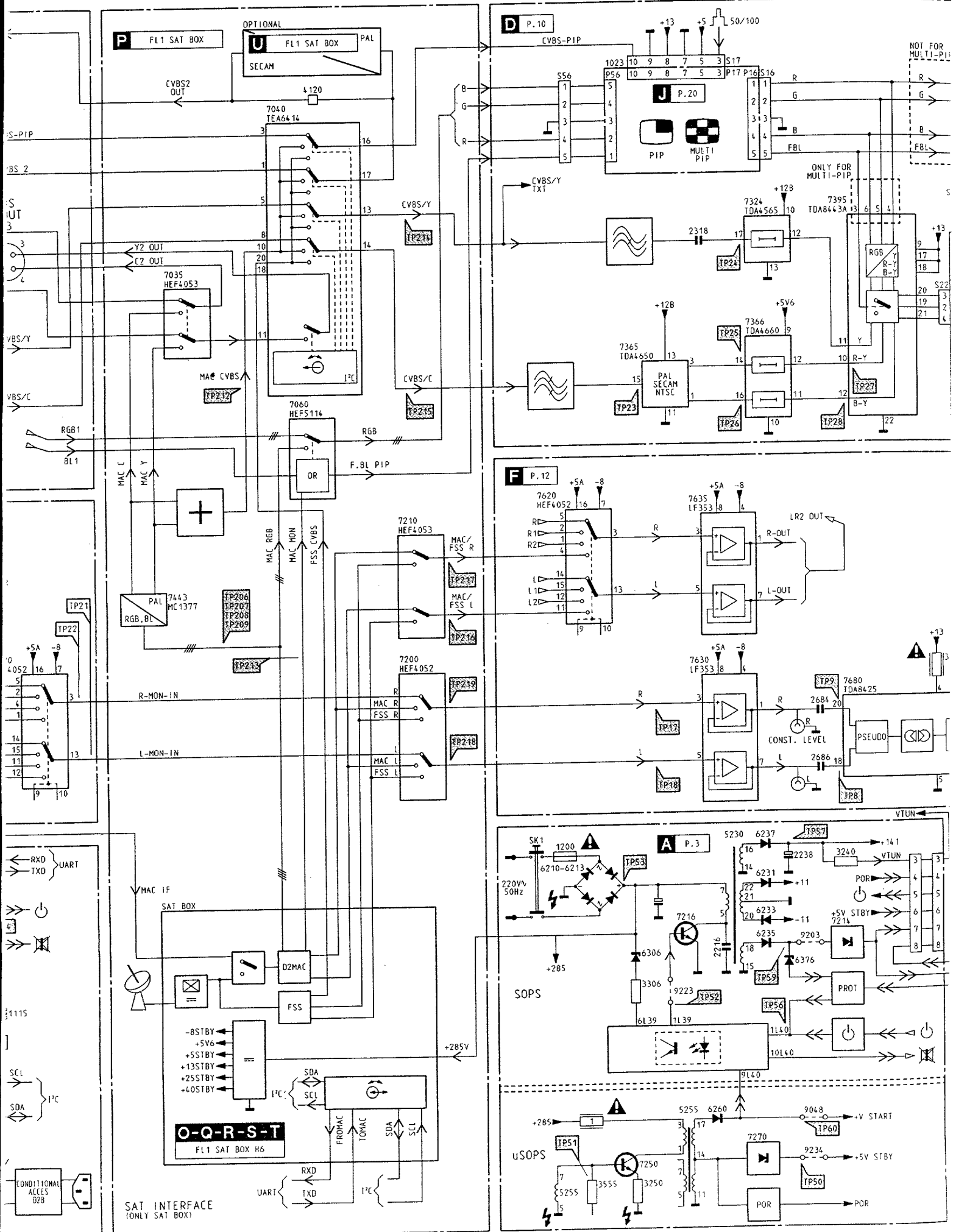
For 28" picture tubes and smaller: 4822 532 12243 (28")

For 29" picture tubes and larger: 4822 404 31294 (28")

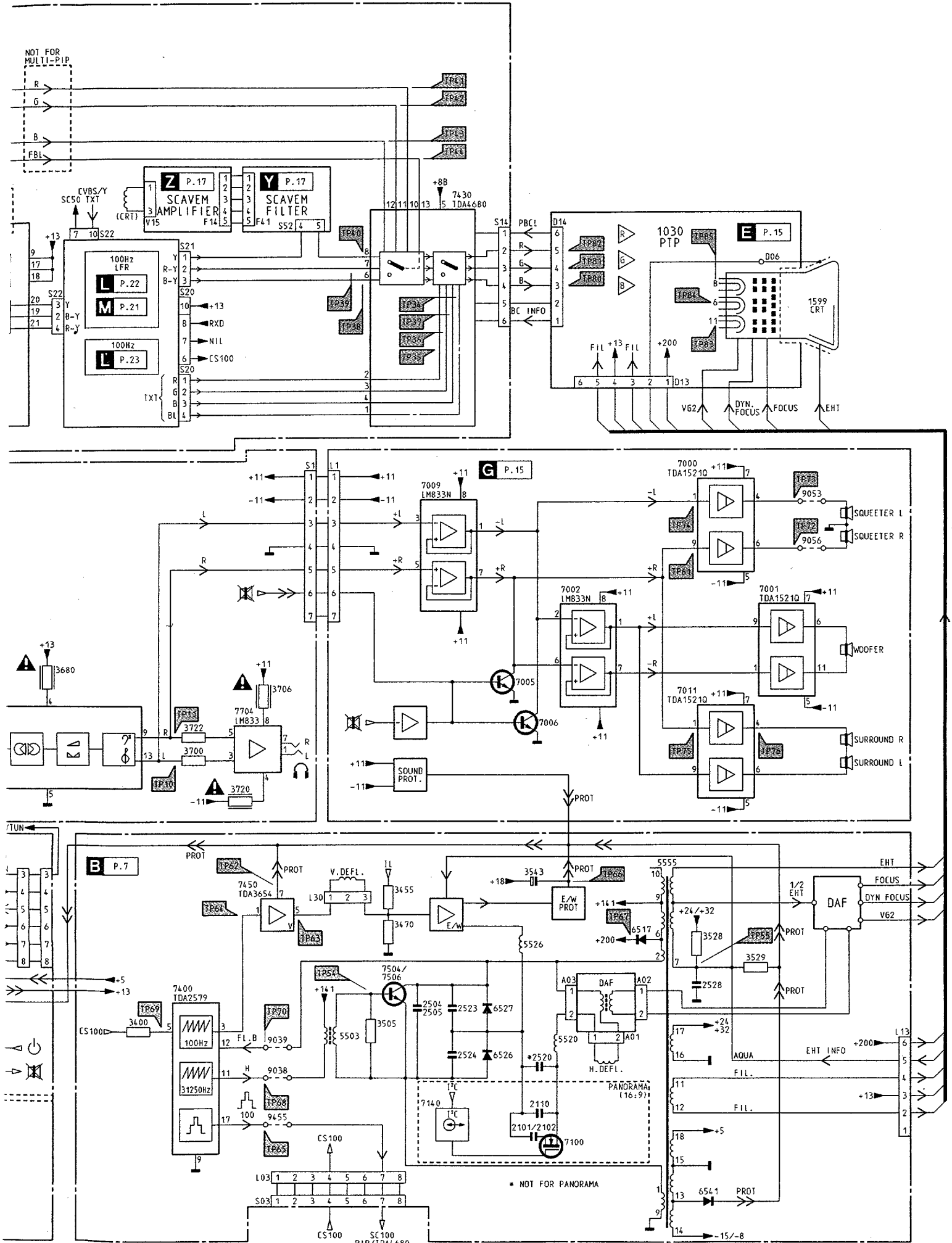
Four tubular rivets are required per picture tube.

# Blockdiagram / Blockschaltbild /



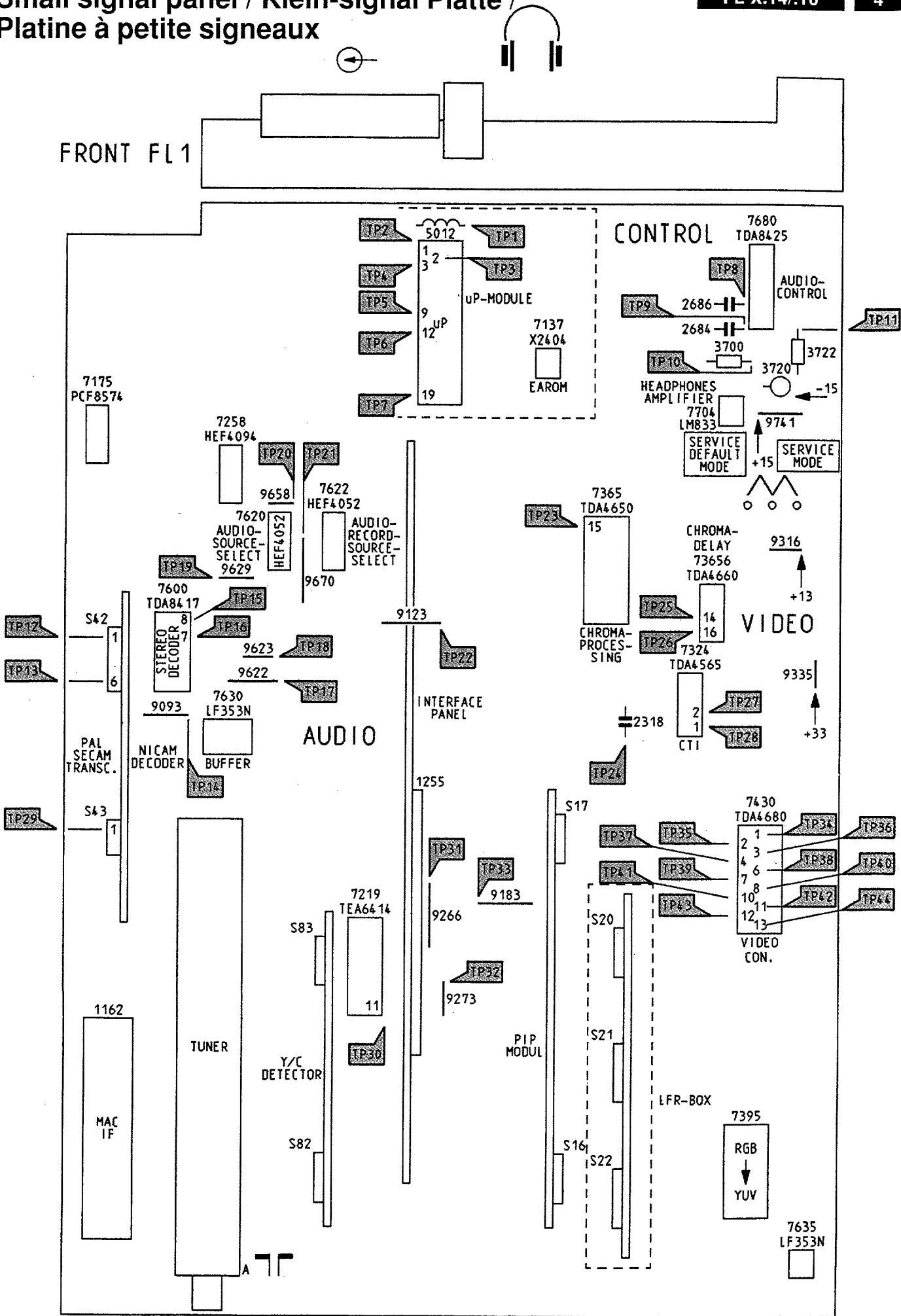


# Diagramme schématique



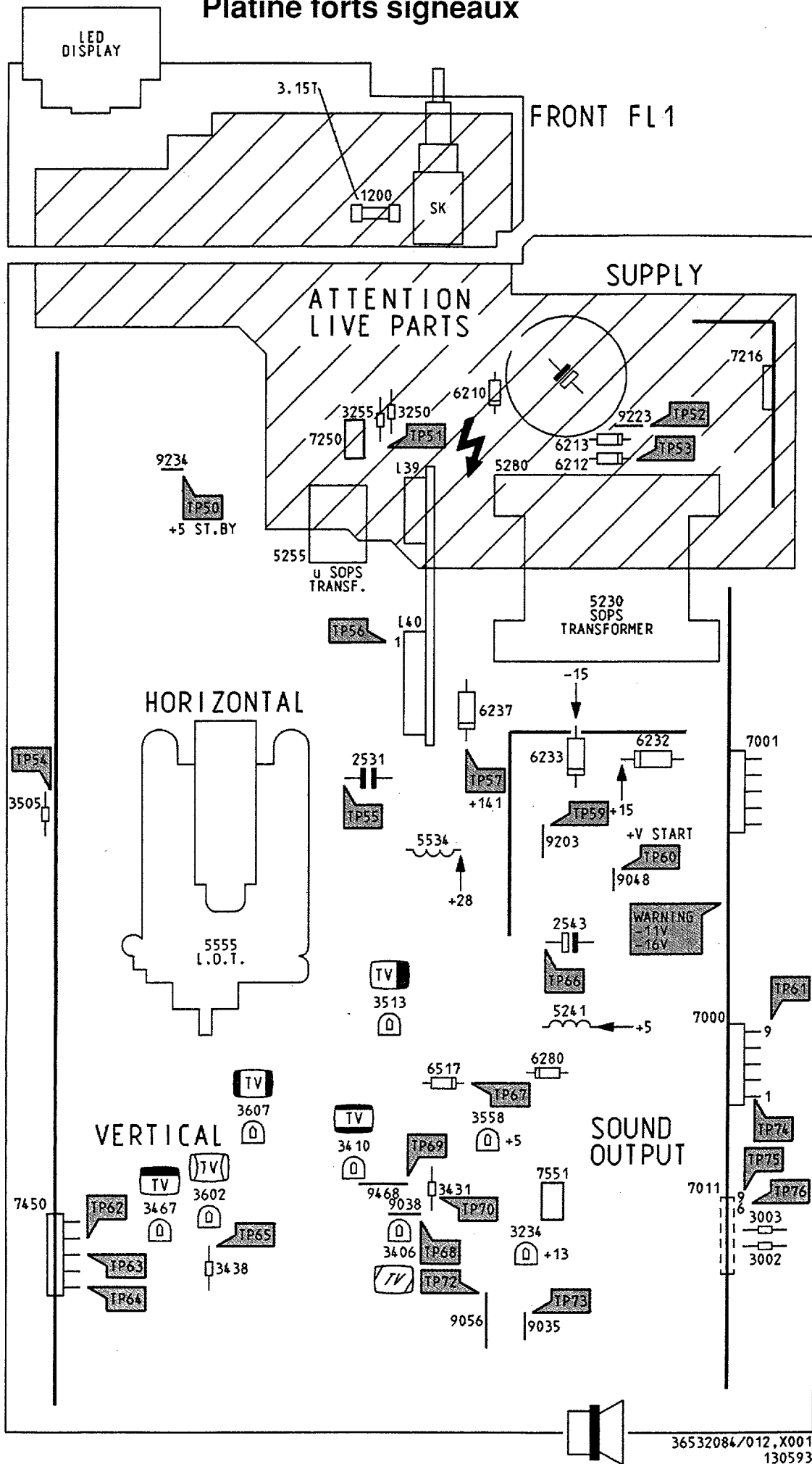


# Small signal panel / Klein-signal Platte / Platine à petite signaux

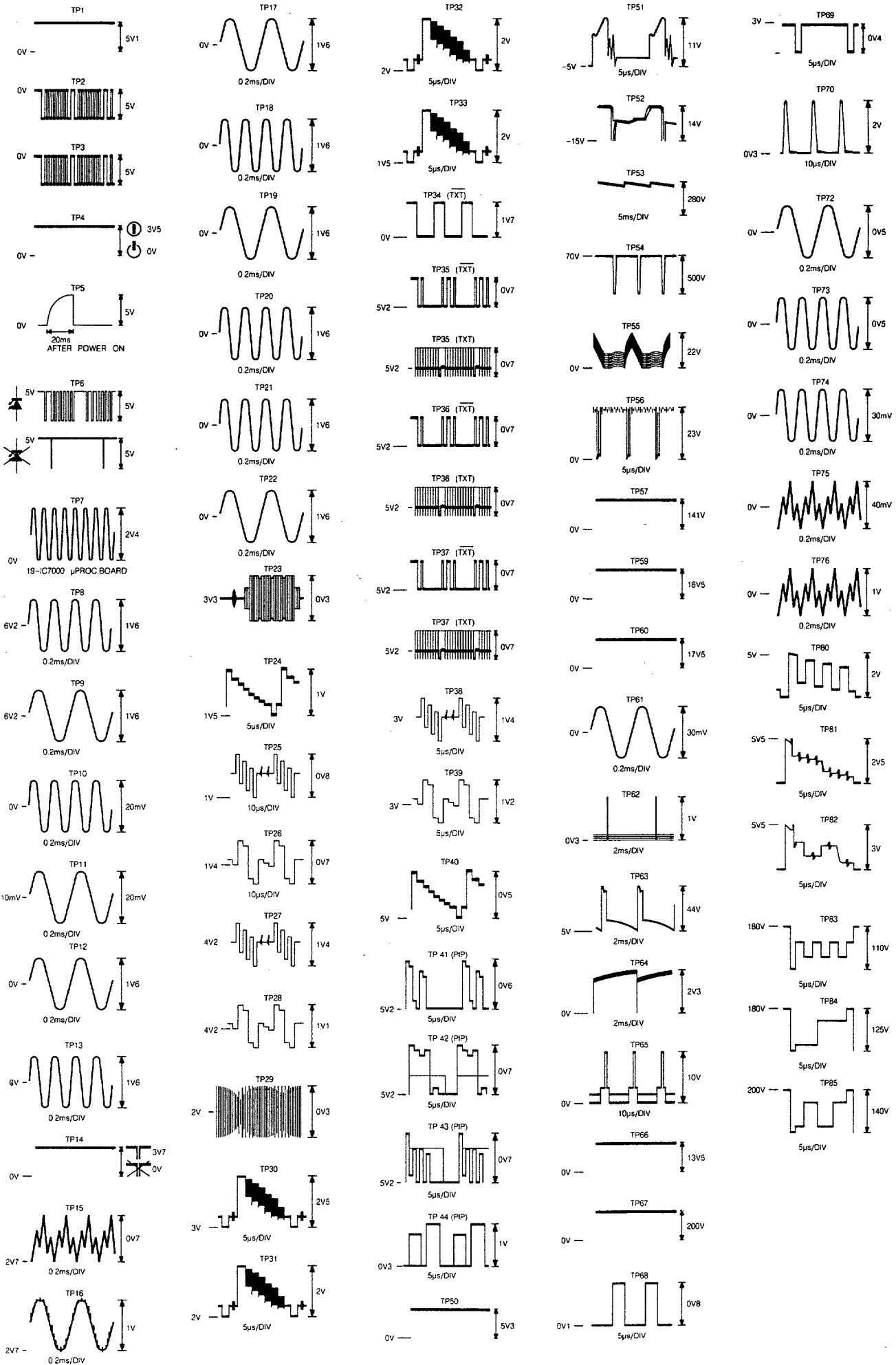


# Large signal panel / Groß-signal Platte / Platine forts signaux

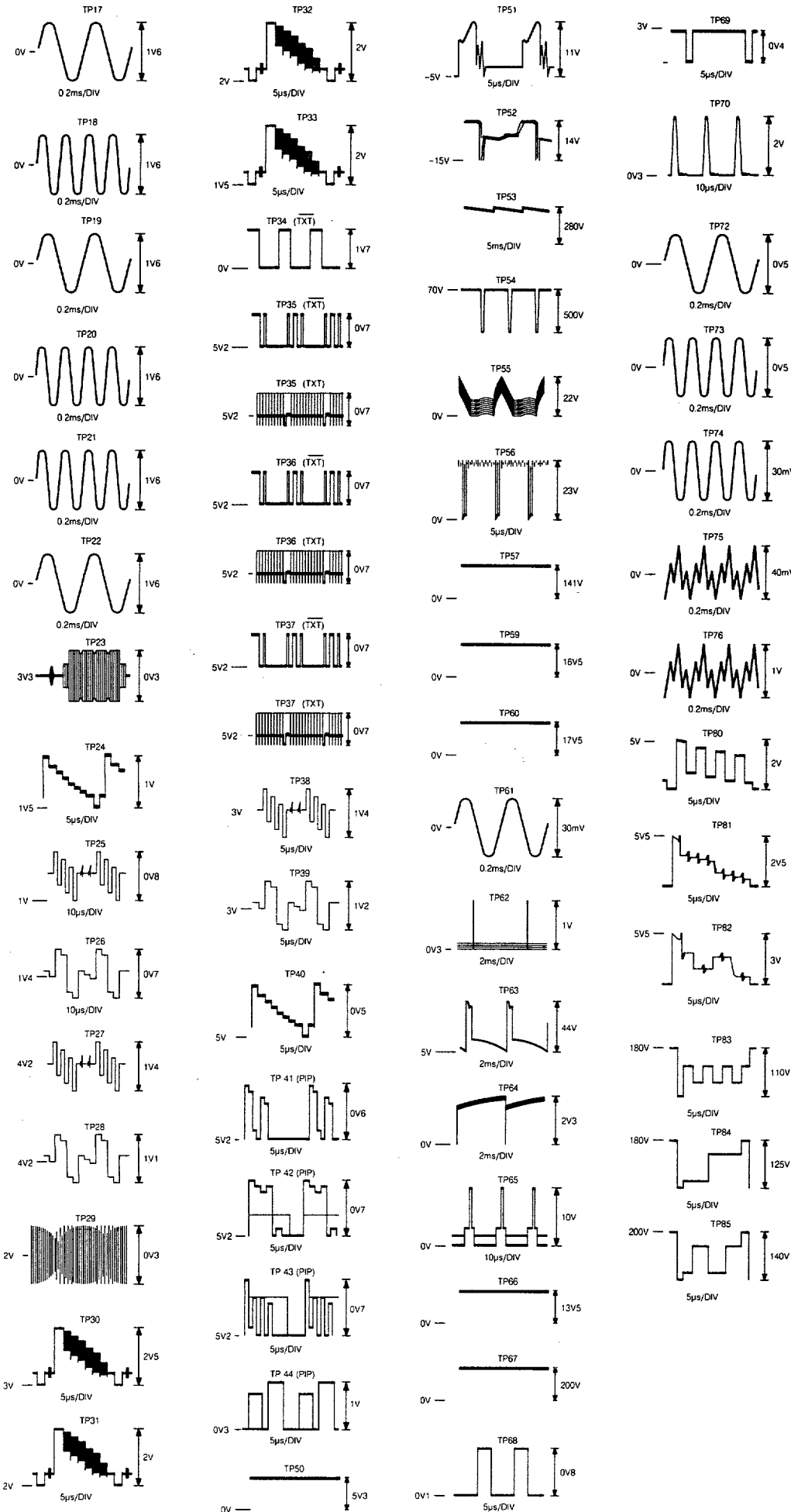
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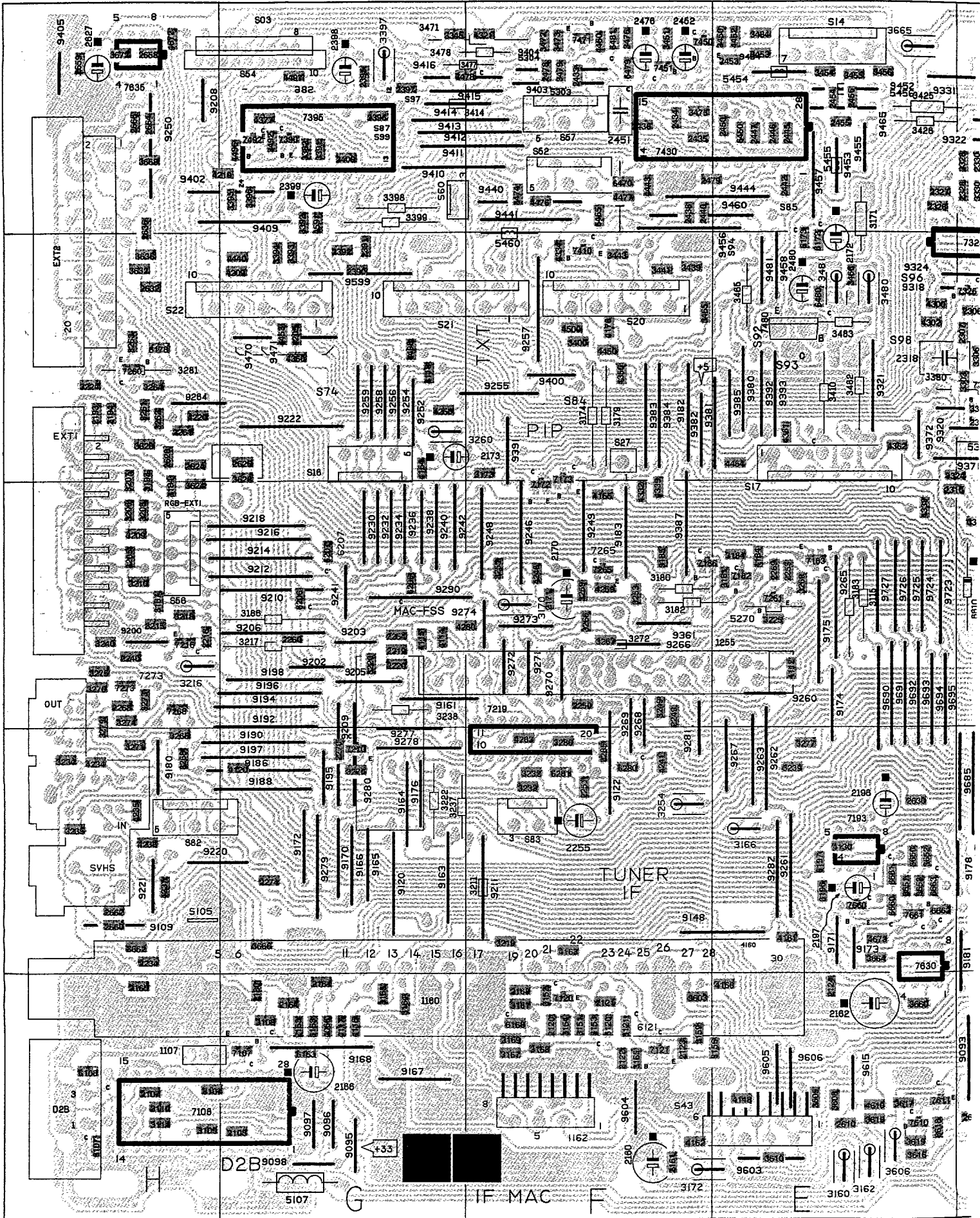
# Oscillograms / Oscillogrammes



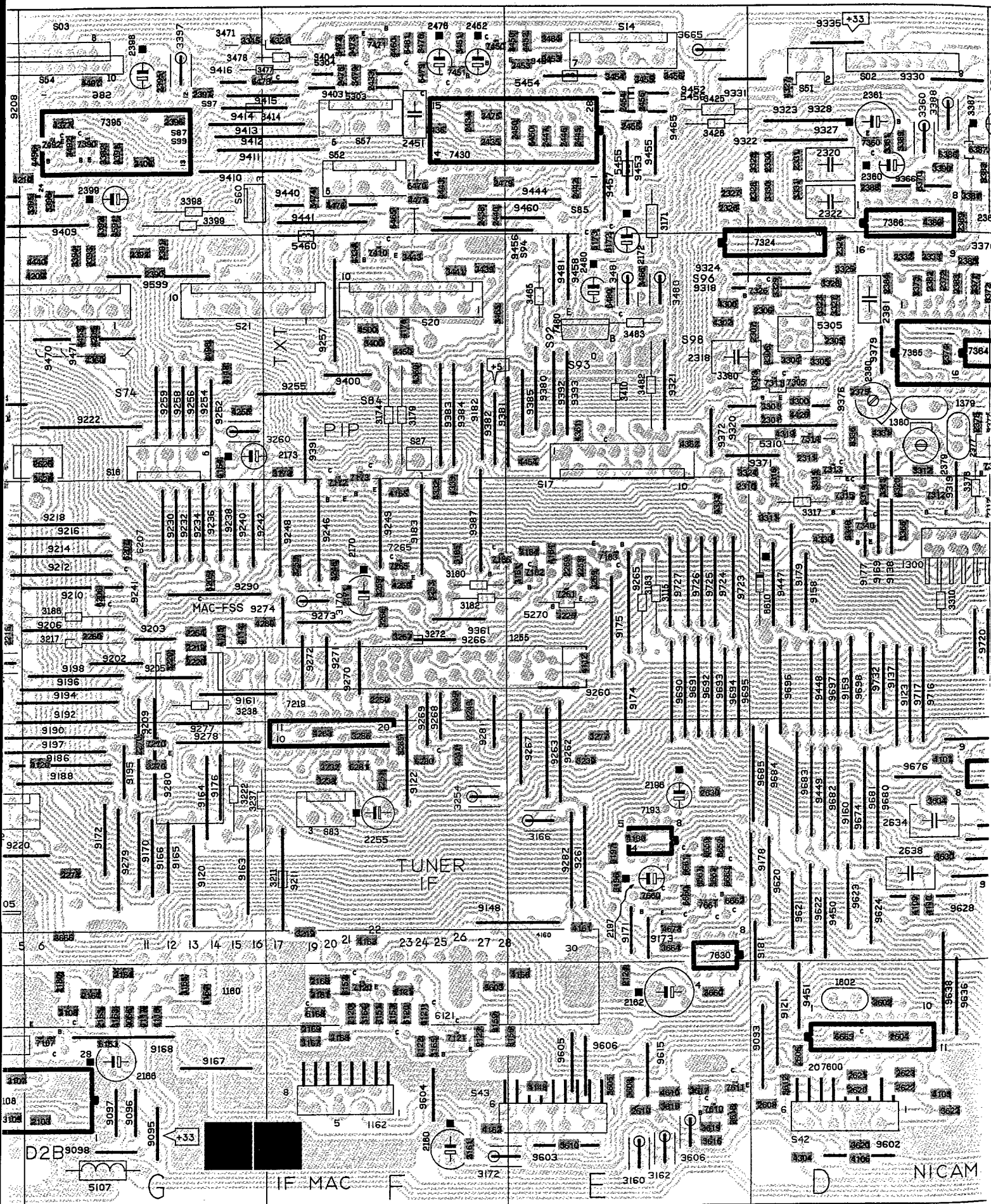
# Oscillogrammes

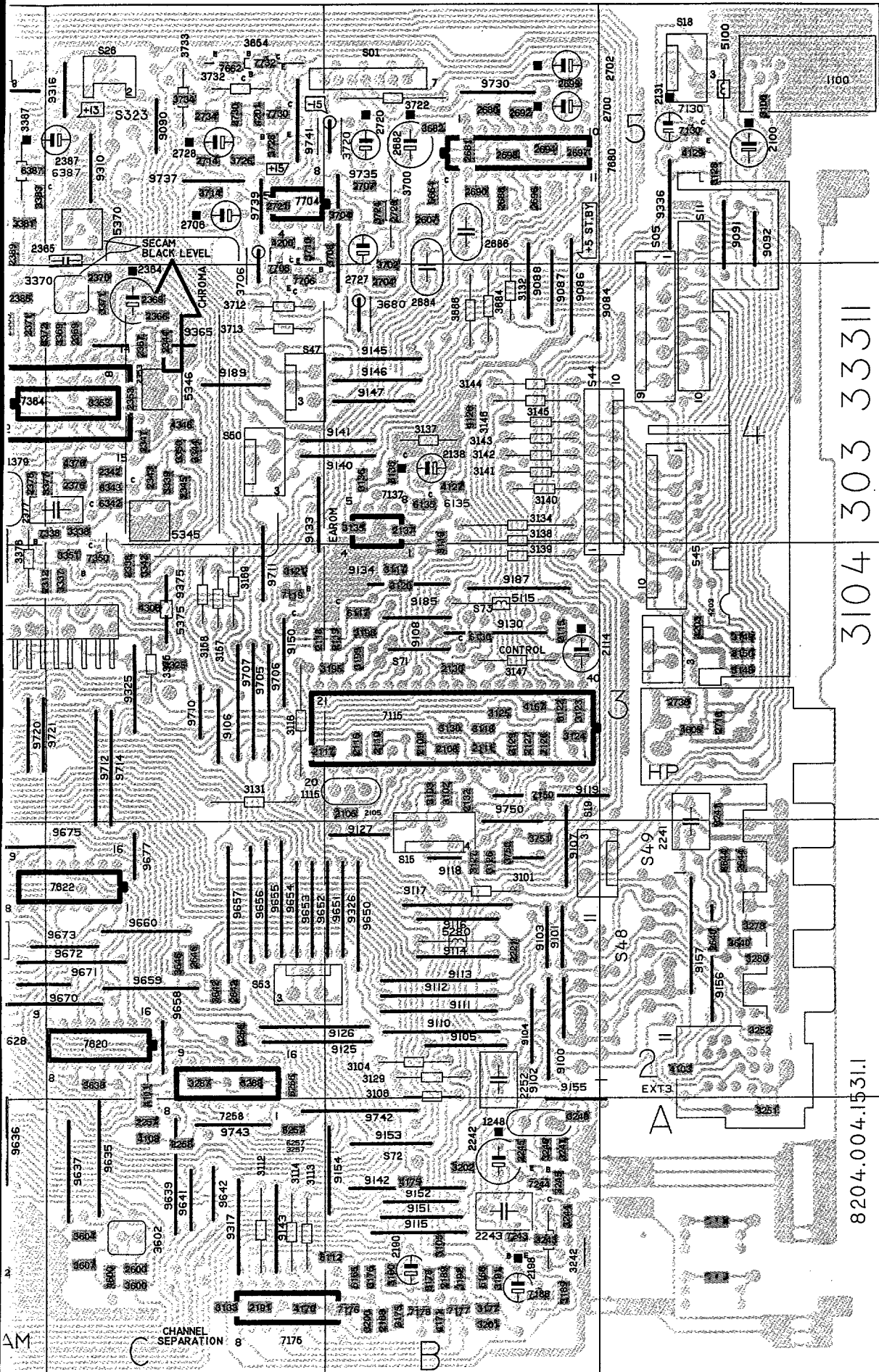


# Small signal panel / Klein-signal Platte /



# Panel / Klein-signal Platte /





D2B	H1	2250	F3	2636
EXT1	H3	2251	F2	2638
EXT2	H4	2252	B2	2640
EXT3	A3	2253	E3	2642
SVHS	H2	2254	G3	2644
S01	B5	2255	F1	2646
S02	D5	2257	C1	2658
S03	H5	2258	C1	2659
S05	A4	2260	G3	2660
S11	A5	2261	H4	2662
S14	E5	2268	H3	2664
S15	B2	2269	E3	2666
S16	G4	2270	G2	2680
S17	E4	2274	G2	2681
S18	A5	2301	D4	2682
S19	B2	2305	D4	2684
S20	F4	2306	D4	2686
S21	F4	2307	D4	2688
S22	G4	2310	D3	2690
S26	C5	2311	D4	2692
S27	F4	2312	C3	2694
S42	D1	2318	E4	2696
S43	E1	2320	D5	2697
S44	B4	2322	D5	2698
S45	A4	2324	D4	2699
S46	A3	2326	E5	2700
S47	C4	2327	E5	2702
S48	B2	2328	D5	2704
S49	A2	2330	D5	2706
S50	A4	2331	D5	2707
S51	F5	2332	D4	2714
S52	F5	2333	D4	2716
S53	C2	2338	C3	2720
S54	H5	2342	C4	2721
S56	H3	2343	C4	2726
S57	F5	2344	C4	2727
S60	G5	2345	C4	2728
S82	G2	2347	C4	2734
S83	F2	2353	C4	2736
S100	F4	2360	D5	3100
S100	D3	2361	D5	3101
S105	H2	2364	C4	3102
S100	A5	2365	C4	3103
S107	G1	2366	C4	3104
S115	B3	2367	C4	3105
S160	E2	2368	C4	3106
S162	F1	2369	C4	3107
S248	B1	2370	C4	3108
S300	D3	2371	D4	3109
S379	D4	2372	D4	3110
S380	D4	2373	D4	3111
S602	D1	2374	D4	3112
S100	A5	2375	D4	3113
S203	G1	2376	C4	3114
S205	B3	2377	C4	3115
S207	H1	2378	D4	3116
S208	B3	2379	D4	3117
S209	B3	2380	D4	3118
S210	B3	2381	D4	3119
S211	B3	2382	D4	3120
S214	B3	2383	D4	3121
S215	B3	2384	D4	3122
S216	B3	2385	D4	3123
S217	B3	2387	C5	3124
S218	C3	2388	D5	3125
S219	B3	2389	D5	3126
S220	F1	2390	G4	3127
S221	F1	2391	G4	3128
S222	F1	2392	G4	3129
S223	F1	2395	G5	3130
S224	E1	2396	G5	3131
S226	B3	2397	G5	3132
S227	B3	2398	G5	3133
S229	B3	2399	G5	3134
S230	B3	2400	G5	3135
S231	A5	2433	F5	3136
S232	B3	2434	F5	3137
S237	B4	2435	F5	3138
S238	B4	2436	F5	3139
S260	F1	2438	F5	3140
S261	F1	2440	F5	3141
S262	E1	2442	E5	3142
S263	G1	2445	E5	3143
S264	G1	2448	E5	3144
S265	H1	2447	E5	3145
S266	G1	2450	E5	3146
S268	F1	2451	F5	3147
S269	F1	2452	F5	3148
S270	F3	2453	E5	3149
S271	F3	2454	E5	3150
S272	E4	2455	E5	3151
S273	G4	2456	E5	3152
S280	G1	2476	F5	3153
S281	G1	2478	F5	3154
S288	B1	2479	E5	3155
S289	B1	2480	E4	3156
S290	B1	2600	C1	3157
S291	C1	2602	D1	3158
S293	H4	2604	D1	3159
S294	H4	2606	D1	3160
S296	E2	2607	B5	3161
S297	E2	2608	D1	3162
S298	B1	2610	E1	3163
S299	H3	2620	D1	3164
S300	H3	2621	D1	3165
S320	G3	2622	D1	3166
S321	B2	2623	D1	3167
S323	H2	2624	H4	3168
S324	H3	2626	G4	3169
S324	A2	2627	H5	3170
S324	B1	2628	H4	3171
S323	B1	2630	E2	3172
S324	B1	2632	H4	3173
S324	F3	2634	D2	3174

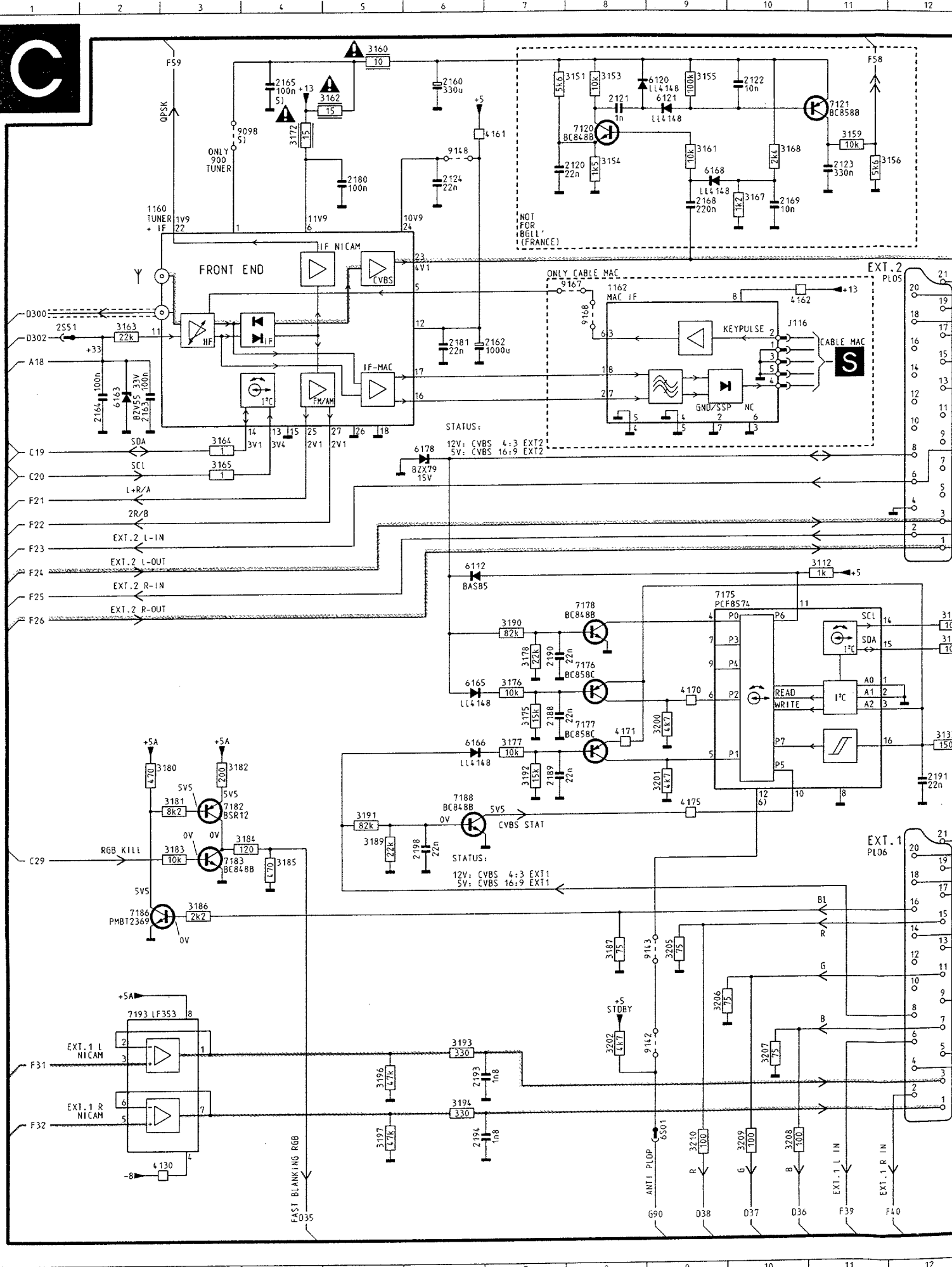
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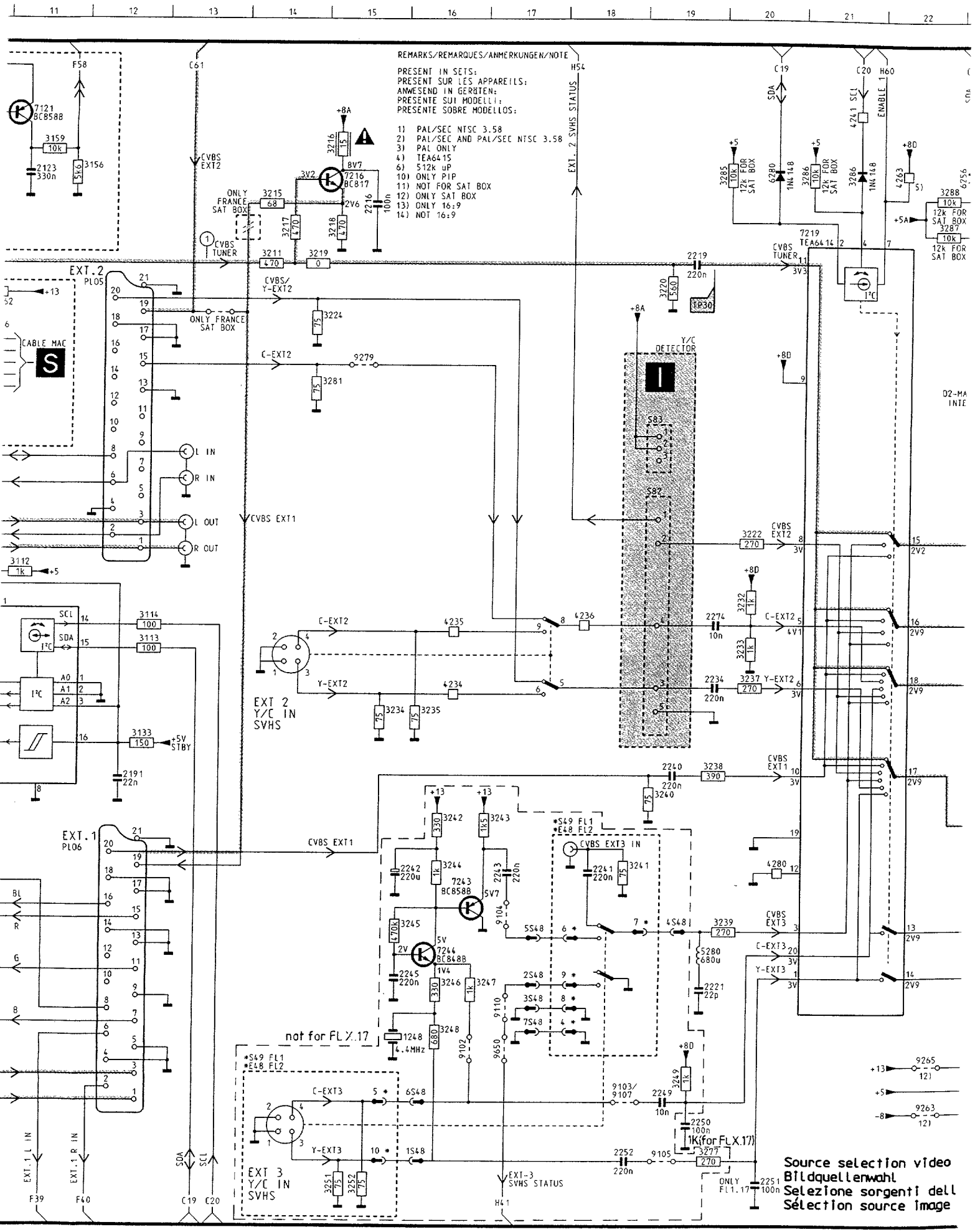
# Platine à petites signaux

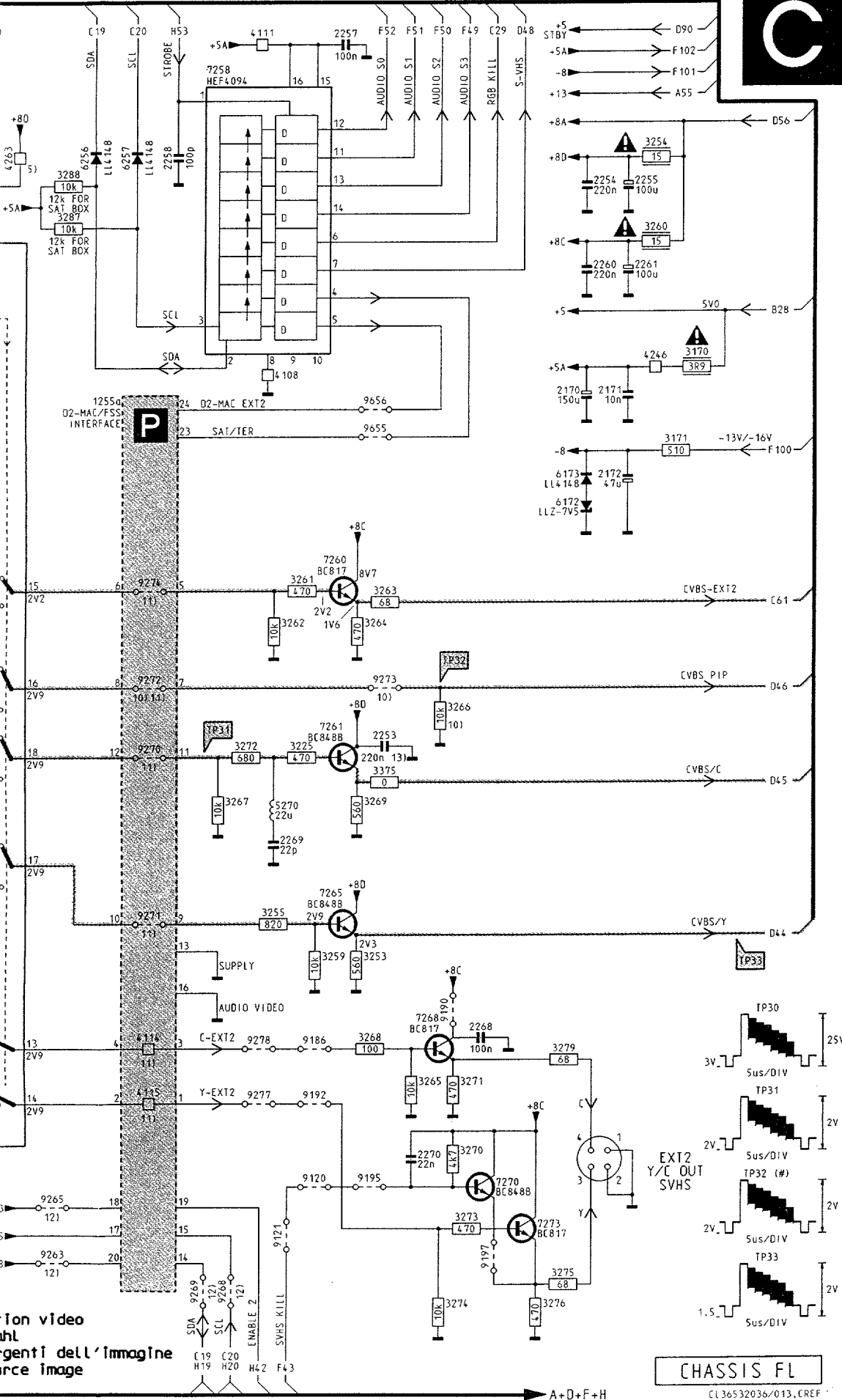
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G1	2446	E5	3144	B4	3275	H3	3616	E1	4321	F5	7182	E3	9153	B1	9331	E5	9712	C3
H1																		





# Sélection de source





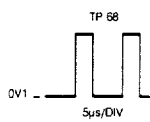
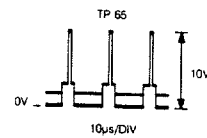
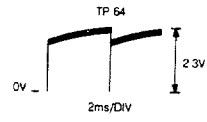
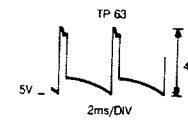
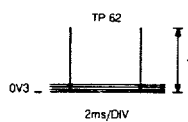
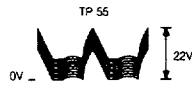
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2120	B 7	3241	K18	9269	N24
2121	A 8	3242	J16	9270	L23
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2123	B11	3244	K16	9272	H23
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3222	G20	9148	B 6		
3224	D14	9167	D 8		
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3235	I16	9195	H26		

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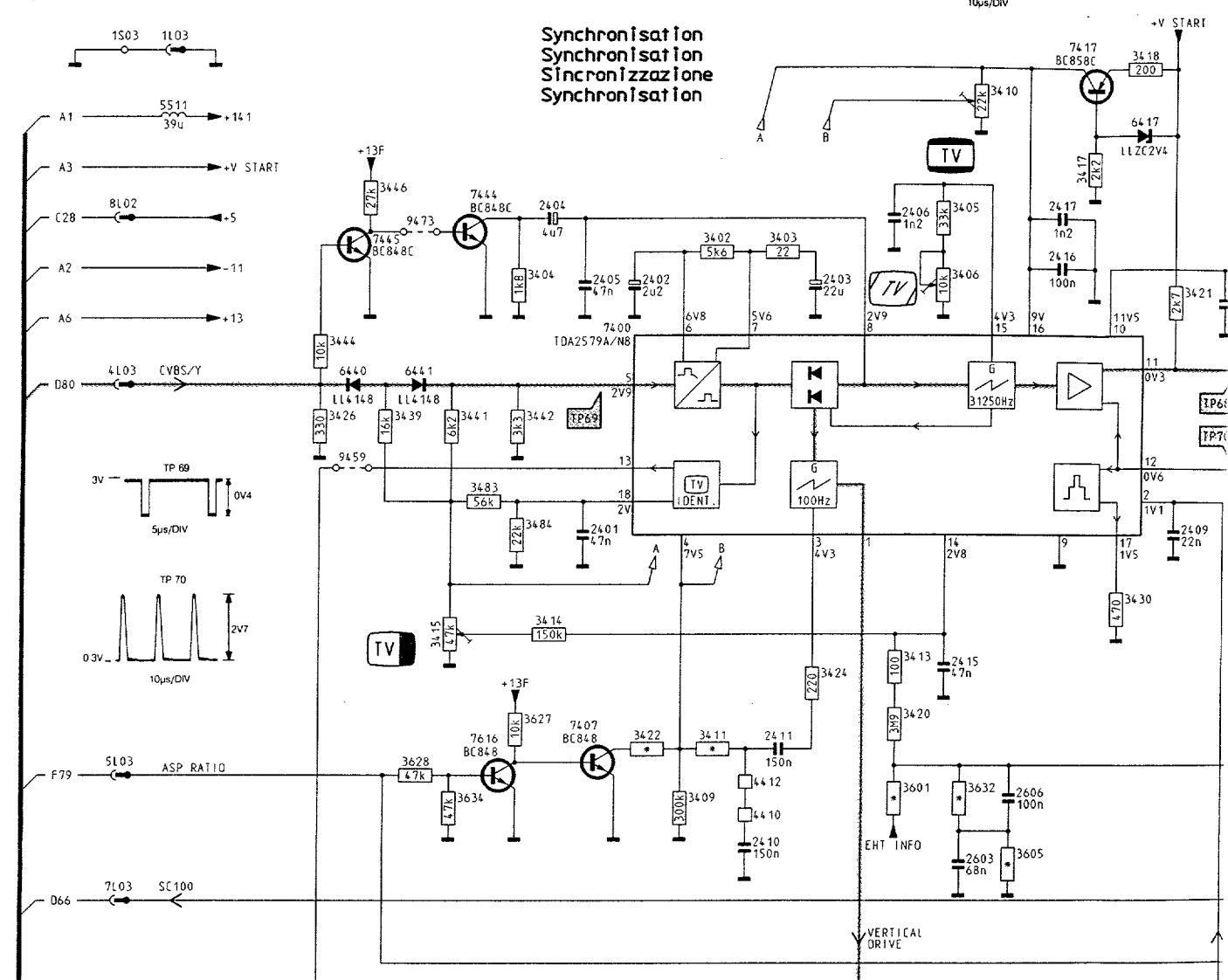
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# Synchronization / Synchronisierung /

# B

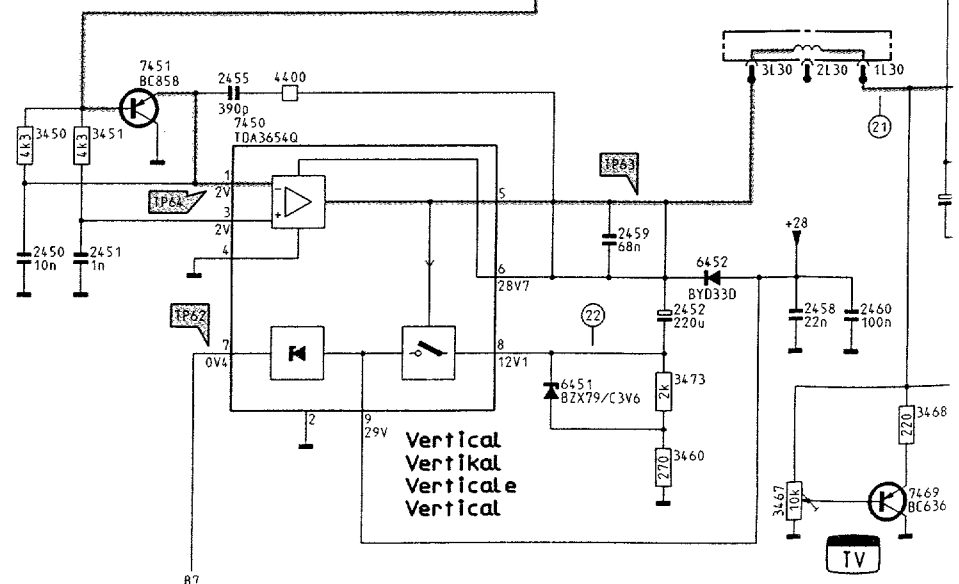


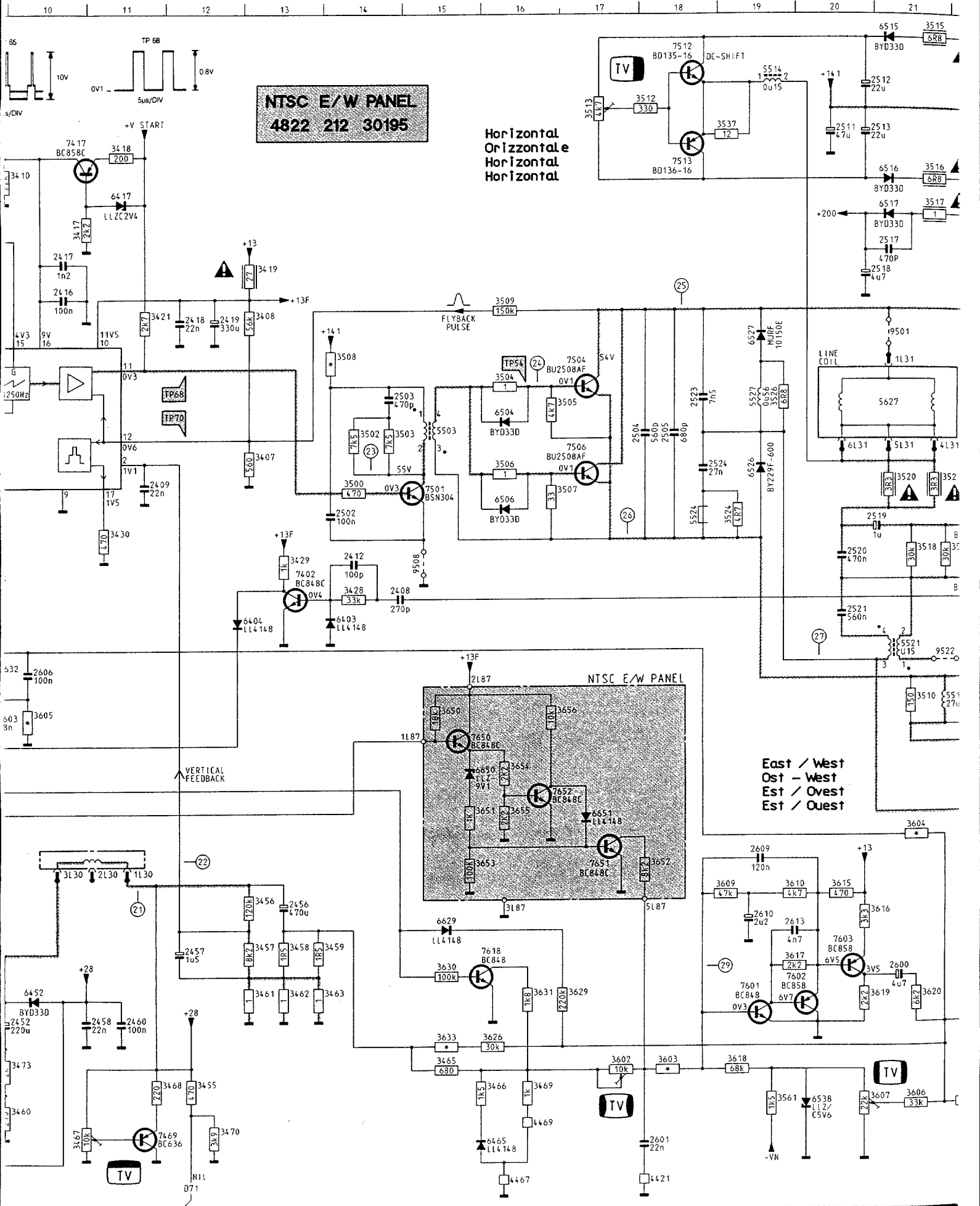
Synchronisation  
Synchronisation  
Sincronizzazione  
Synchronisation



REMARKS/REMARQUES/ANMERKUNGEN/NOTE

*	25"	28"	33"
2456	470u	470u	680u
2504	560p	560p	470p
2505	680p	680p	560p
2524	27n	27n	30n
2603	68n	47n	100n
2606	-	-	100n
3411	100k	91k	120k
3422	1M2	1M2	1M5
3456	120k	120k	130k
3457	8k2	8k2	9k1
3466	1k5	2k7	4k3
3469	1k	2k7	4k3
3505	33	33	4k7
3507	33	33	47
3508	1k8	1k5	1k5
3601	100k	150k	150k
3603	12k	12k	9k10
3604	160k	180k	180k
3605	13k	24k	24k
3622	100	100	15k
3626	270k	130k	270k
3632	100	15k	15k
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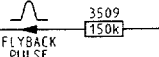
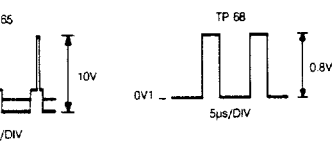




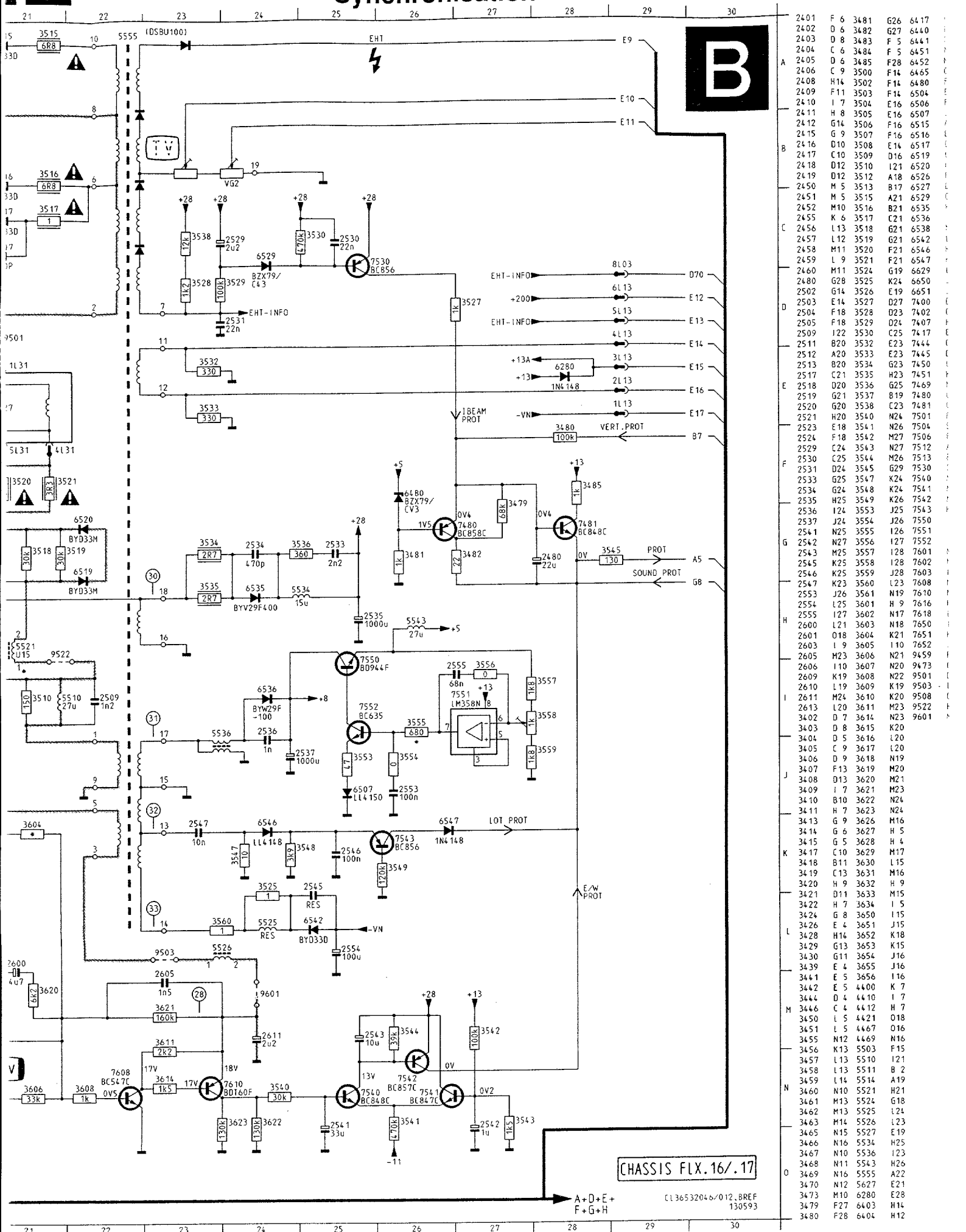
**NTSC E/W PANEL**  
4822 212 30195

Horizontal  
Orizzontale  
Horizontal  
Horizontal

East / West  
Est - West  
Est / Ovest  
Est / Ouest



# Synchronisation



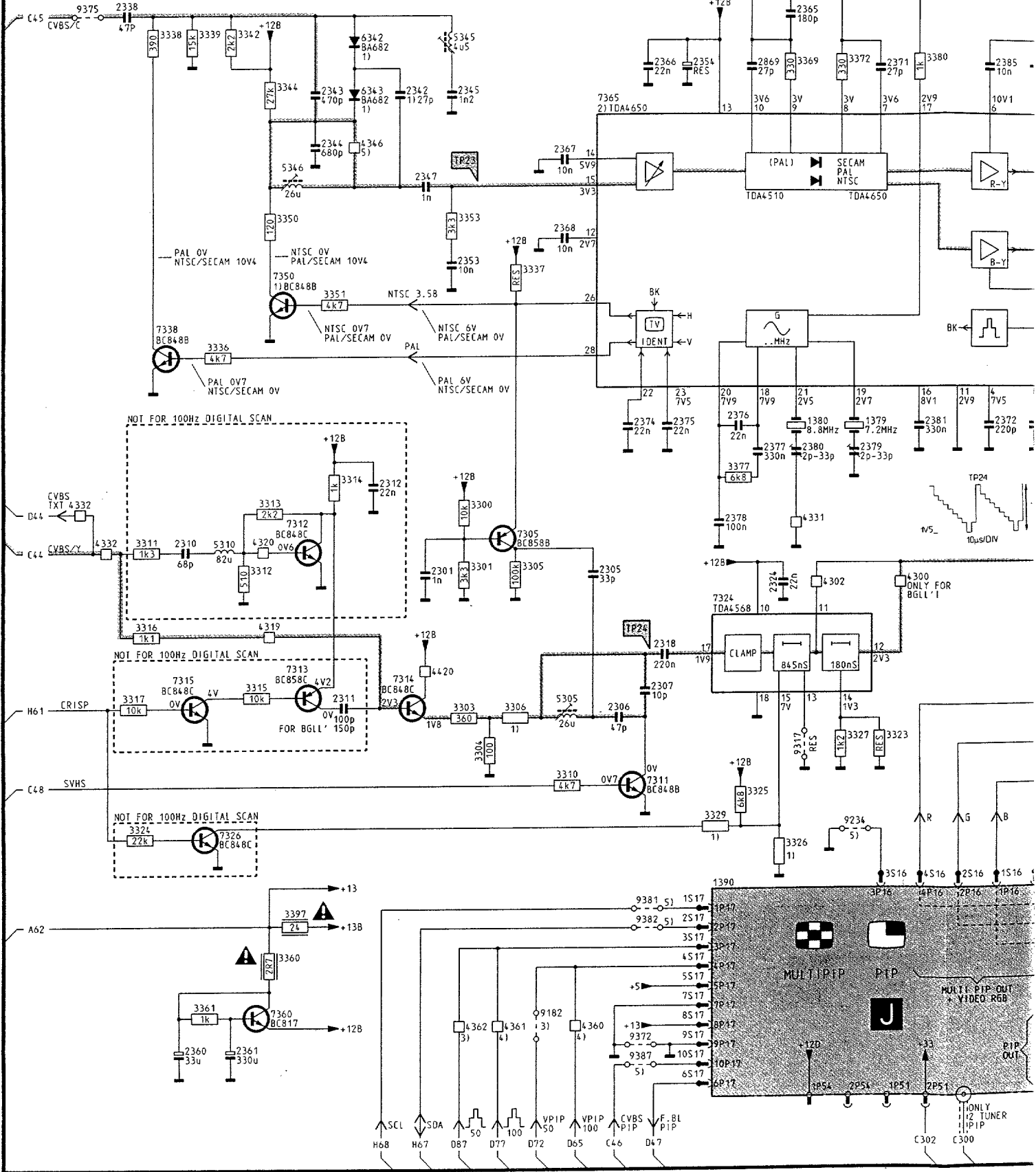
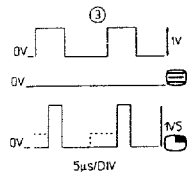
2401	F 6	3481	G26	6417
2402	D 6	3482	G27	6440
2403	D 8	3483	F 5	6441
2404	C 6	3484	F 5	6451
2405	D 6	3485	F28	6452
2406	C 9	3500	F14	6465
2408	H14	3502	F14	6480
2409	F11	3503	F14	6504
2410	I 7	3504	E16	6506
2411	H 8	3505	E16	6507
2412	G14	3506	F16	6515
2415	G 9	3507	F16	6516
2416	D10	3508	E14	6517
2417	C10	3509	D16	6519
2418	D12	3510	I21	6520
2419	D12	3512	A18	6526
2450	M 5	3513	B17	6527
2451	M 5	3515	A21	6529
2452	M10	3516	B21	6535
2455	K 6	3517	C21	6536
2456	L13	3518	G21	6538
2457	L12	3519	G21	6542
2458	M11	3520	F21	6546
2459	L 9	3521	F21	6547
2460	M11	3524	G19	6629
2480	G28	3525	K24	6650
2502	G14	3526	E19	6651
2503	E14	3527	D27	7400
2504	F18	3528	D23	7402
2505	F18	3529	D24	7407
2509	I22	3530	C25	7417
2511	B20	3532	E23	7444
2512	A20	3533	E23	7445
2513	B20	3534	G23	7450
2517	C21	3535	H23	7451
2518	D20	3536	G25	7469
2519	G21	3537	B19	7480
2520	G20	3538	C23	7481
2521	H20	3540	M24	7501
2523	E18	3541	M26	7504
2524	F18	3542	M27	7506
2529	C24	3543	N27	7512
2530	C25	3544	M26	7513
2531	D24	3545	G29	7530
2533	G25	3547	X24	7540
2534	G24	3548	K24	7541
2535	H25	3549	K26	7542
2536	I24	3553	J25	7543
2537	J24	3554	J26	7550
2541	N25	3555	I26	7551
2542	N27	3556	I27	7552
2543	M25	3557	I28	7601
2545	K25	3558	I28	7602
2546	K25	3559	J28	7603
2547	K23	3560	L23	7608
2553	J26	3561	N19	7610
2554	L25	3601	H 9	7616
2555	I27	3602	N17	7618
2600	L21	3603	N18	7650
2601	O18	3604	K21	7651
2603	I 9	3605	I10	7652
2605	M23	3606	N21	9459
2606	I10	3607	N20	9473
2609	K19	3608	N22	9501
2610	L19	3609	K19	9503
2611	L24	3610	K20	9508
2613	M20	3611	M23	9522
3402	D 7	3614	N23	9601
3403	D 8	3615	K20	
3404	D 5	3616	L20	
3405	C 9	3617	L20	
3406	D 9	3618	N19	
3407	F13	3619	M20	
3408	D13	3620	M21	
3409	I 7	3621	M23	
3410	B10	3622	N24	
3411	H 7	3623	N24	
3413	G 9	3626	M16	
3414	G 6	3627	H 5	
3415	G 5	3628	H 4	
3417	C10	3629	M17	
3418	B11	3630	L15	
3419	C13	3631	M16	
3420	H 9	3632	H 9	
3421	D11	3633	M15	
3422	H 7	3634	I 5	
3424	G 8	3650	I15	
3426	E 4	3651	J15	
3428	H14	3652	K18	
3429	G13	3653	K15	
3430	G11	3654	J16	
3439	E 4	3655	J16	
3441	E 5	3656	I16	
3442	E 5	4400	K 7	
3444	D 4	4410	I 7	
3446	C 4	4412	H 7	
3450	L 5	4421	O18	
3451	L 5	4467	O16	
3455	N12	4469	N16	
3456	K13	5503	F15	
3457	L13	5510	I21	
3458	L13	5511	B 2	
3459	L14	5514	A19	
3460	N10	5521	H21	
3461	M13	5524	G18	
3462	M13	5525	I24	
3463	M14	5526	L23	
3465	N15	5527	E19	
3466	N16	5534	H25	
3467	N10	5536	I23	
3468	N11	5543	H26	
3469	N16	5555	A22	
3470	N12	5627	E21	
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3479	F27	6403	H14	
3480	F28	6404	H12	

CHASSIS FLX. 16/.17

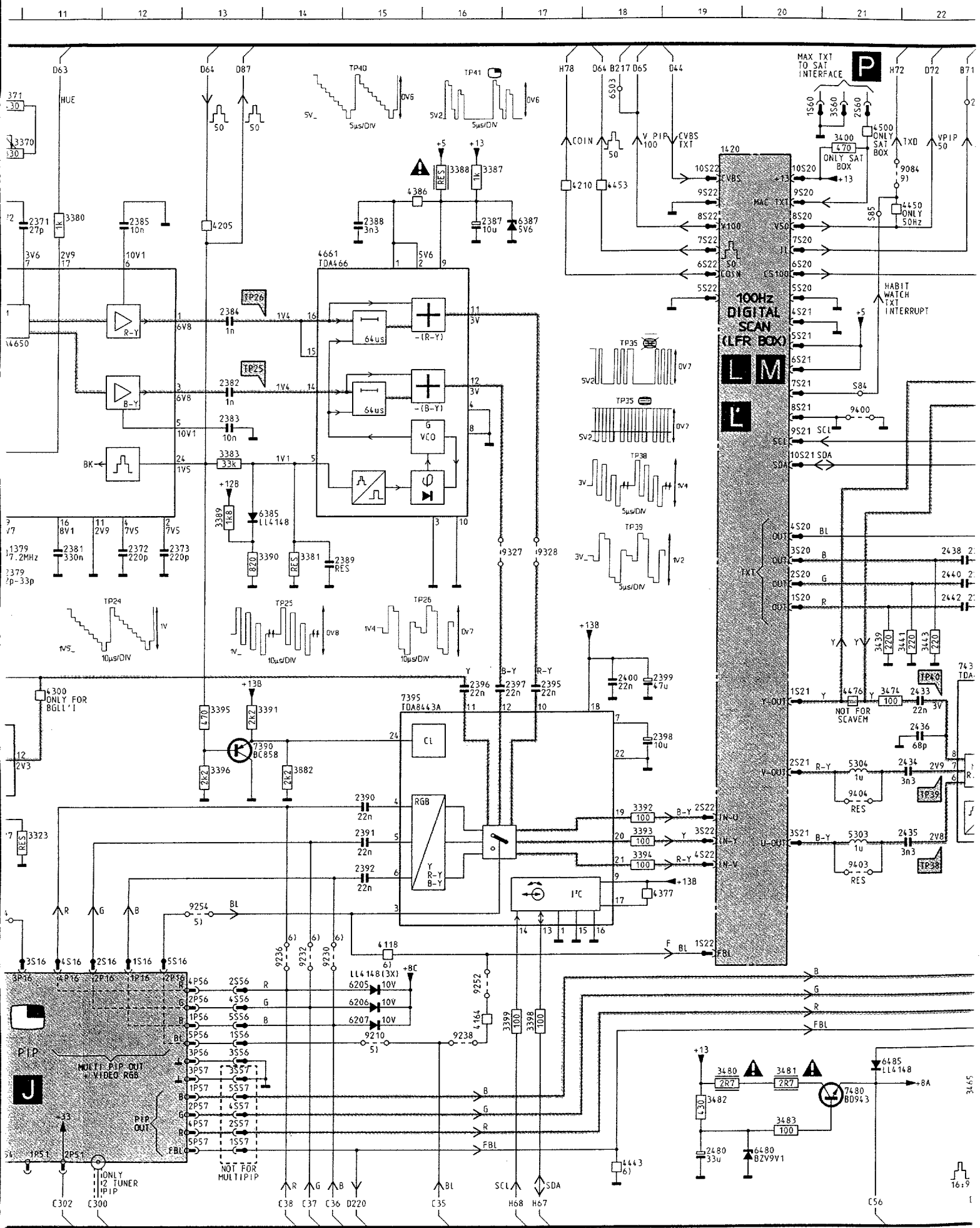
C136532046/012, BREF 130593

**D**

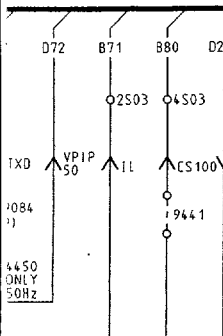
**Chrominance processing**  
**Chrominanz-Prozessor**  
**Traitement chrominance**



# Traitement vidéo



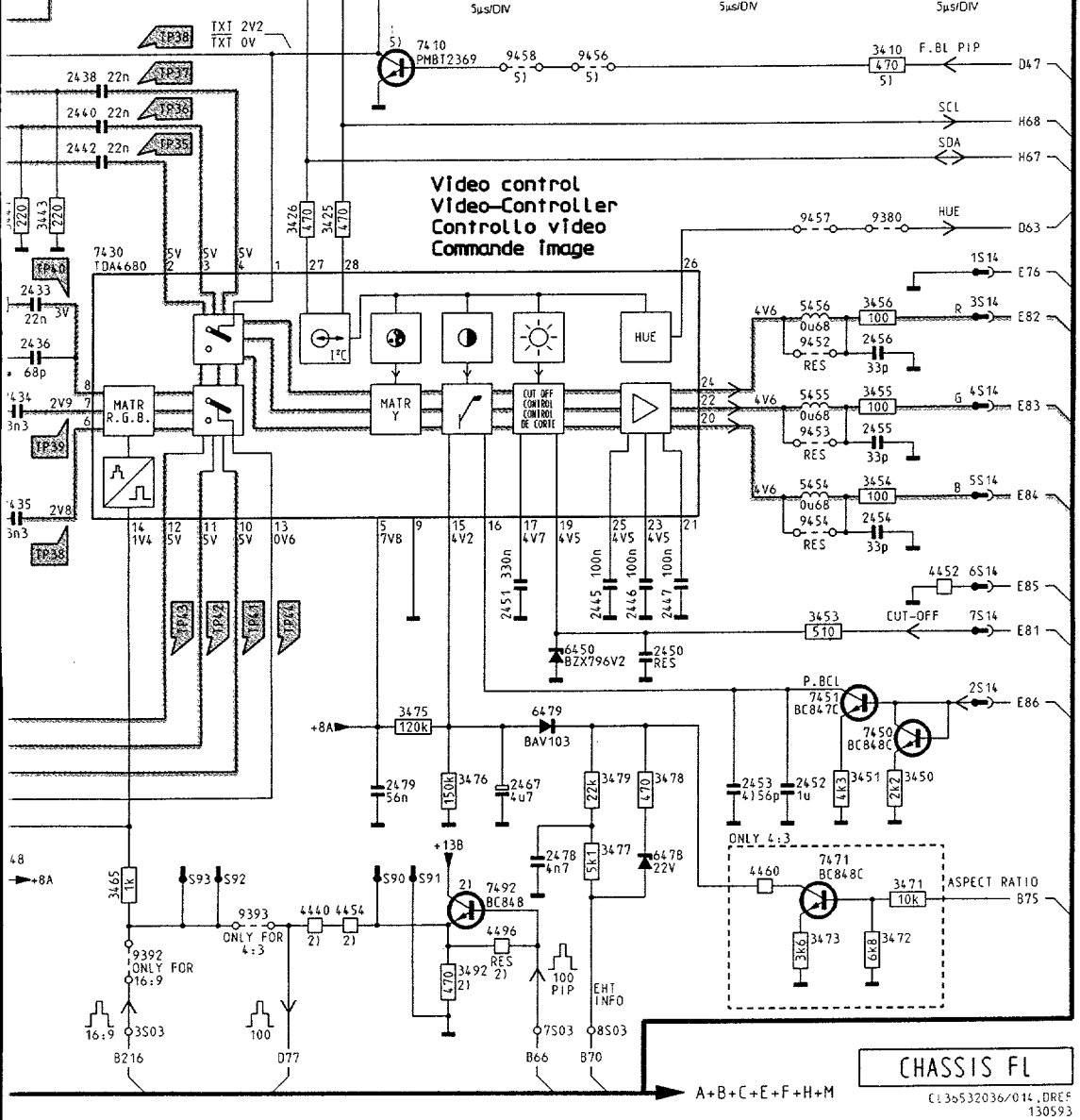
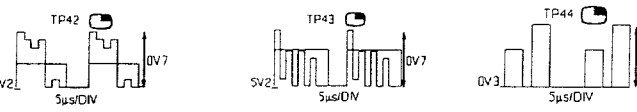
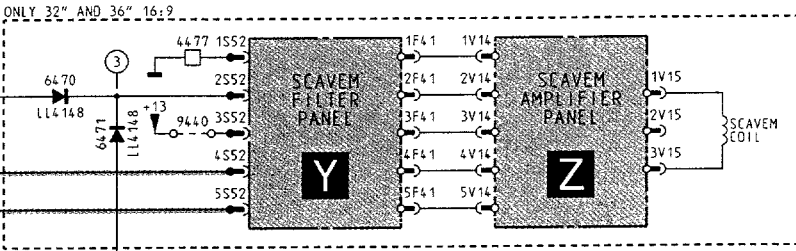




FL 1.17		FL 1.16		FL 1.14			
100Hz	100Hz	100Hz	100Hz	NO NSAT	LFR	LFR	SAT
BGLM	LL'1	BGLM	LL'1	LFR	LFR	LFR	LFR
3306	220	240	360	360	360	360	360
3326	---	10K	3k3	10K	---	---	3k3
3329	3k9	1	---	---	---	---	10K

FL 1.17	FL 1.14	FL 1.14	FL 1.16
4440/4454	MULTI PIP	PIP	---
7492	4440/4454	---	4496
3492	7492	---	4440/4454

- 3) MULTIPIP
- 4) PIP
- 5) ONLY PIP
- 6) NOT PIP
- 8) NOT FOR DIGITAL SCAN
- 9) ONLY FOR DIGITAL SCAN



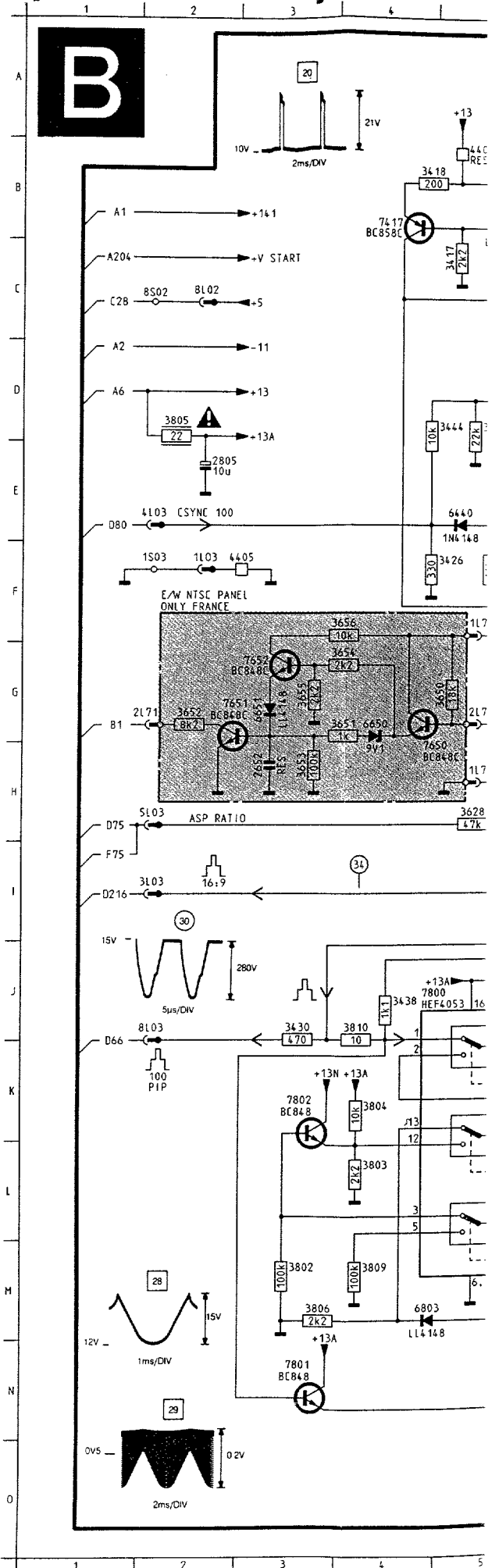
1379	G10	3388	B16	9084	B21
1380	G10	3389	F13	9182	N 7
1390	L 9	3390	G13	9210	M15
1420	B19	3391	I13	9230	L14
2301	I 5	3392	J18	9232	L14
2305	I 7	3393	J18	9234	K10
2306	J 8	3394	K18	9236	L14
2307	J 8	3395	I13	9238	M16
2310	H 3	3396	J13	9252	L16
2311	J 4	3397	L 4	9254	K13
2312	H 5	3398	M17	9317	K10
2318	I 8	3399	M17	9327	G17
2324	I 9	3400	B21	9328	M17
2338	B 2	3410	G29	9372	N 8
2342	C 5	3425	H24	9375	B 1
2343	C 4	3426	H24	9380	H29
2344	D 4	3439	H21	9381	L 8
2345	C 6	3441	H22	9382	M 8
2347	D 5	3443	H22	9387	N 8
2353	E 6	3450	M29	9392	N23
2354	C 8	3451	M29	9393	N24
2360	N 3	3453	K28	9400	E21
2361	N 3	3454	J29	9403	K21
2365	B10	3455	J29	9404	J21
2366	C 8	3456	I29	9440	D25
2367	D 7	3465	N22	9441	B23
2368	E 7	3471	N29	9452	I28
2371	C11	3472	N29	9453	J28
2372	G12	3473	N28	9454	K28
2373	G12	3474	I21	9456	G26
2374	G 8	3475	L25	9457	H28
2375	G 8	3476	M25	9458	G26
2376	G 9	3477	M26		
2377	G 9	3478	M27		
2378	H 9	3479	M29		
2379	G10	3480	M19		
2380	G10	3481	M20		
2381	G11	3482	N19		
2382	E13	3483	N20		
2383	E13	3492	N25		
2384	D13	3882	J14		
2385	C12	4118	L15		
2387	C16	4164	M16		
2388	C15	4205	C13		
2389	G14	4210	B17		
2390	J15	4300	I11		
2391	J15	4302	I10		
2392	K15	4319	I 4		
2395	I17	4320	H 3		
2396	I16	4331	H10		
2397	I17	4332	H 2		
2398	I18	4332	H 1		
2399	I18	4346	D 5		
2400	I18	4360	N 7		
2433	I22	4361	N 6		
2434	J22	4362	N 6		
2435	J22	4377	K18		
2436	I22	4386	B15		
2438	G22	4420	J 5		
2440	G22	4440	N24		
2442	H22	4443	O18		
2445	K26	4450	C22		
2446	K27	4452	K29		
2447	K27	4453	B18		
2450	L27	4454	N24		
2451	K26	4460	N28		
2452	M28	4476	I21		
2453	M28	4477	D25		
2454	K29	4496	B26		
2455	J29	4500	B21		
2456	I29	4661	C14		
2457	M26	5303	K21		
2478	M26	5304	J21		
2479	M25	5305	J 7		
2480	N19	5310	H 3		
2869	C 9	5345	C 6		
3300	H 6	5346	D 4		
3301	H 6	5370	B10		
3303	J 6	5454	J28		
3304	K 6	5455	J28		
3305	H 6	5456	I28		
3306	J 6	6205	M15		
3310	K 7	6206	M15		
3311	H 2	6207	M15		
3312	H 3	6342	C 5		
3313	H 4	6343	C 5		
3314	G 4	6385	F13		
3315	J 3	6387	C17		
3316	I 2	6450	L26		
3317	J 2	6470	D24		
3323	J11	6471	E25		
3324	K 2	6478	M27		
3325	K 9	6479	L26		
3326	L 9	6480	N20		
3327	J10	6485	M21		
3329	K 9	7305	H 6		
3336	F 3	7311	K 8		
3337	E 6	7312	H 4		
3338	B 2	7313	J 4		
3339	B 3	7314	J 5		
3342	B 3	7315	J 3		
3344	C 4	7324	I 9		
3350	D 4	7326	L 3		
3351	E 4	7338	F 2		
3353	D 6	7350	E 4		
3360	M 4	7360	N 4		
3361	N 3	7365	C 7		
3369	C10	7390	I13		
3370	B10	7395	I15		
3371	A10	7410	G25		
3372	C10	7430	H22		
3377	G 9	7450	L29		
3380	C11	7451	L28		
3381	G14	7471	M21		
3383	F13	7480	N21		
3387	B16	7492	N26		

CHASSIS FL  
 C130532036/014\_DREF  
 130593

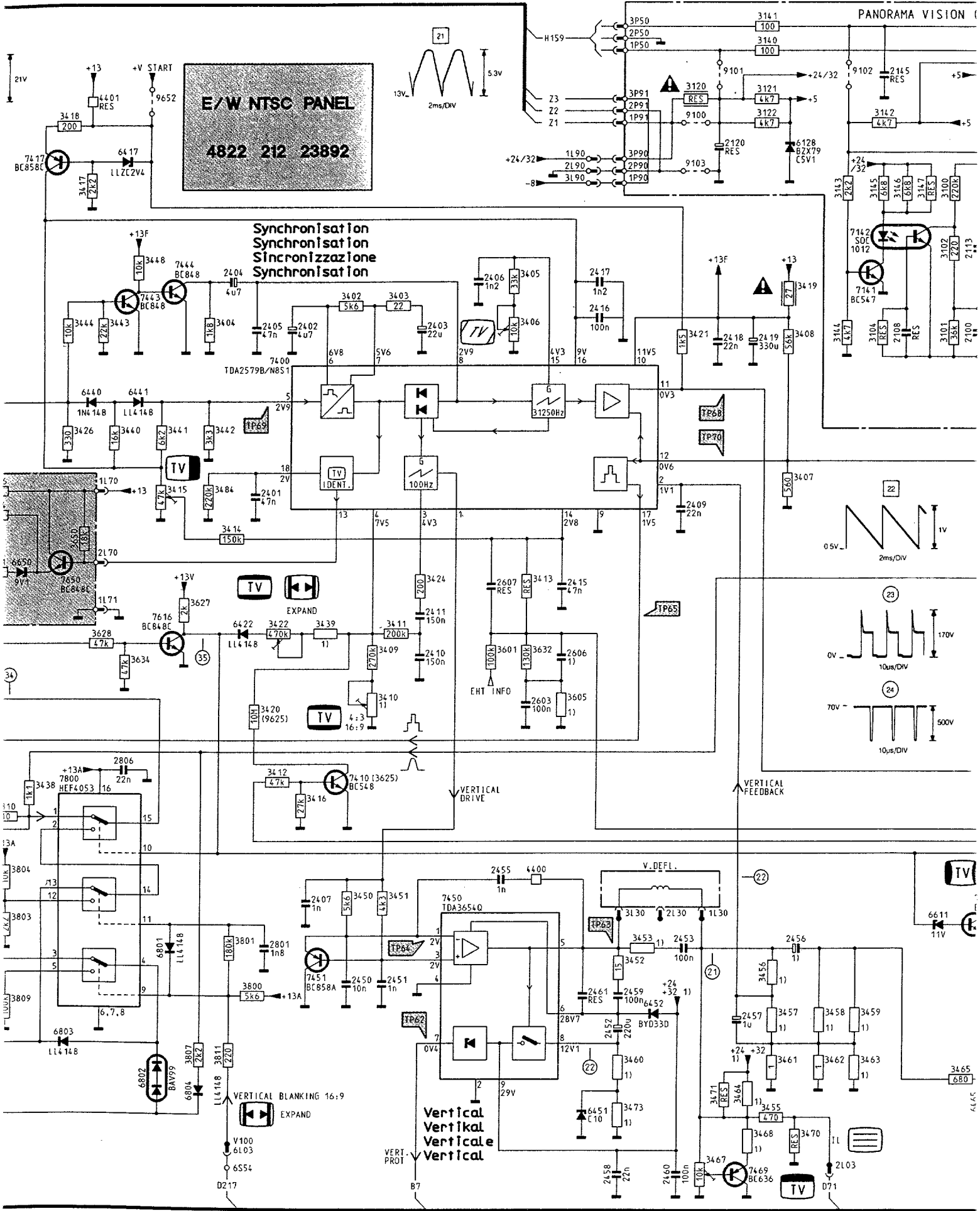
B16 9084 B21  
F13 9182 N 7  
G13 9210 M15  
I13 9230 L14  
J18 9232 L14  
J18 9234 K10  
K18 9236 L14  
I13 9238 M16  
J13 9252 L16  
L 4 9254 K13  
M17 9317 K10  
M17 9327 G17  
B21 9328 G17  
G29 9372 N 8  
H24 9375 B 1  
H24 9380 H29  
H21 9381 L 8  
H22 9382 M 8  
H22 9387 N 8  
M29 9392 N23  
M29 9393 N24  
K28 9400 E21  
J29 9403 K21  
J29 9404 J21  
I29 9440 D25  
N22 9441 B23  
N29 9452 I28  
N29 9453 J28  
M28 9454 K28  
I21 9456 G26  
L25 9457 H28  
M25 9458 G26  
M26  
M27  
M26  
M19  
M20  
N19  
N20  
N25  
J14  
L15  
M16  
C13  
B17  
I11  
I10  
I 4  
H 3  
H10  
H 2  
H 1  
D 5  
N 7  
N 6  
N 6  
K18  
B15  
J 5  
N24  
O18  
C22  
K29  
B18  
N24  
N28  
I21  
D25  
M26  
B21  
C14  
K21  
J21  
J 7  
H 3  
C 6  
D 4  
B10  
J28  
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I28  
L15  
M15  
M15  
C 5  
C 5  
F13  
C17  
L26  
D24  
E25  
M27  
L26  
N20  
M21  
H 6  
K 8  
H 4  
J 4  
J 5  
J 3  
I 9  
L 3  
F 2  
E 4  
N 4  
C 7  
I13  
I15  
G25  
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L29  
L28  
M28  
N21  
N26

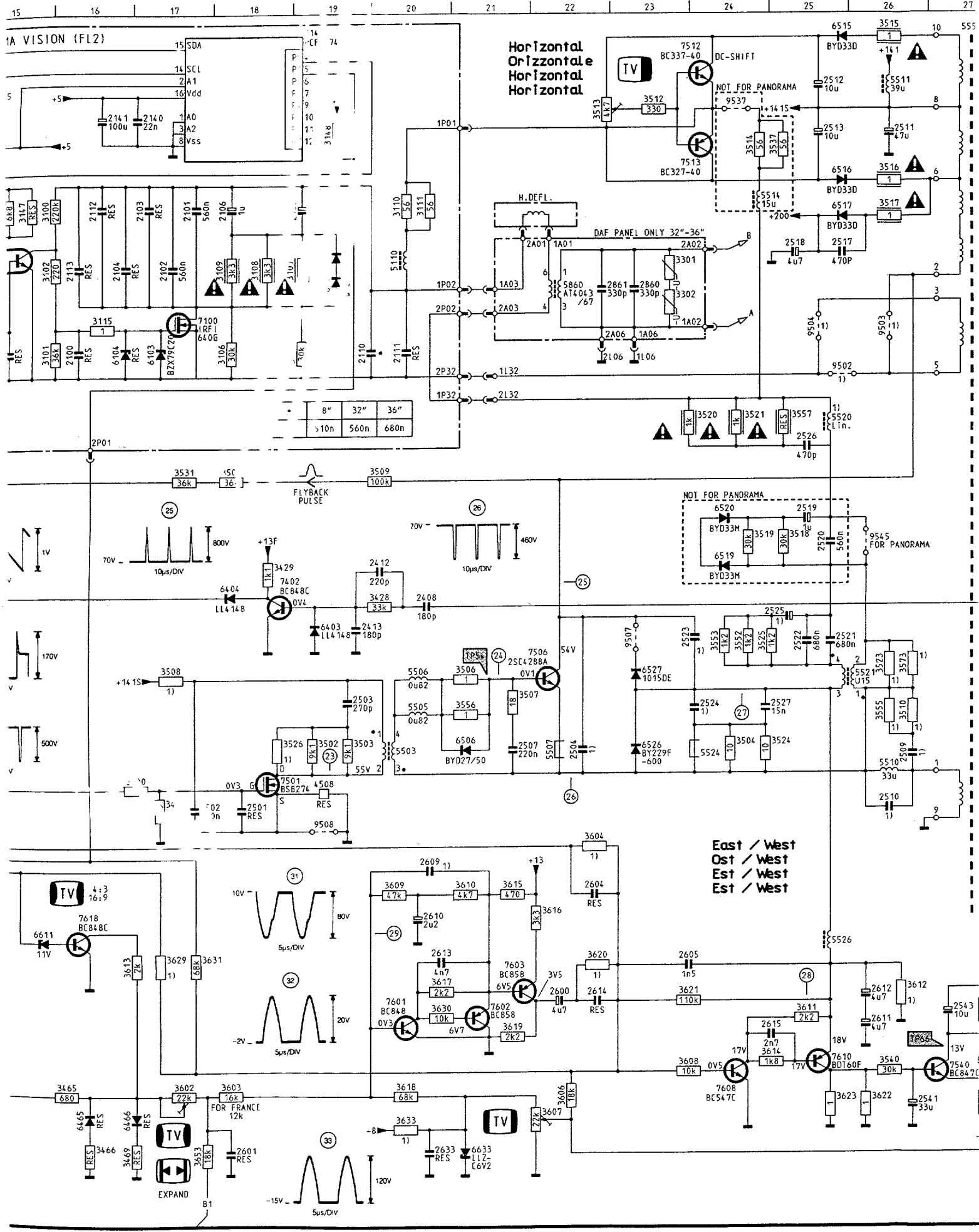
# Synchronization / Synchronisation

## B

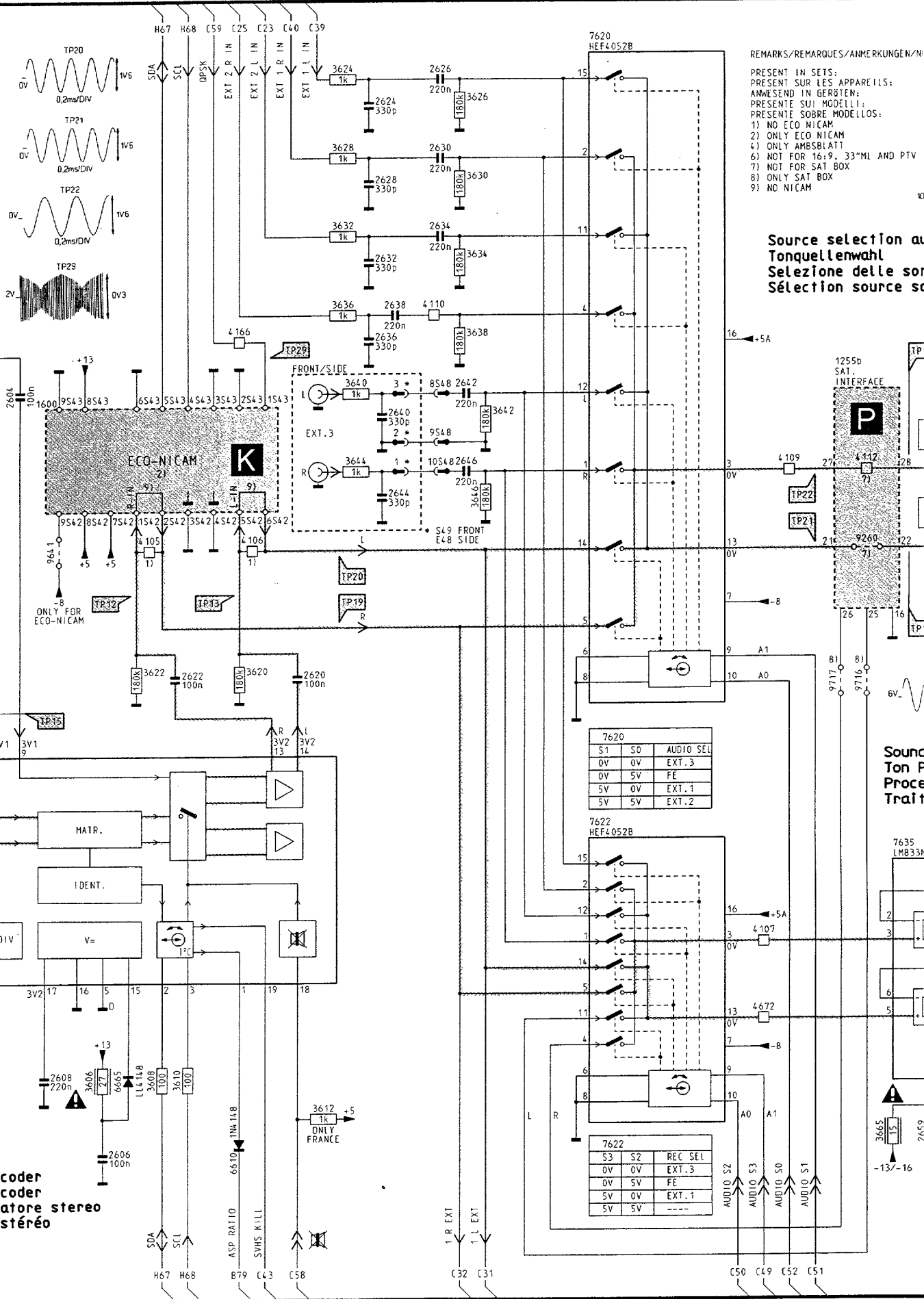


# chronisierung /









REMARKS/REMARQUES/ANMERKUNGEN/VN  
 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 AMBSBLATT  
 6) NOT FOR 16:9, 33"ML AND PTV  
 7) NOT FOR SAT BOX  
 8) ONLY SAT BOX  
 9) NO NICAM

Source selection at  
 Tonquellenwahl  
 Selezione delle sor  
 Sélection source sc



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 P  
 Procce  
 Traif

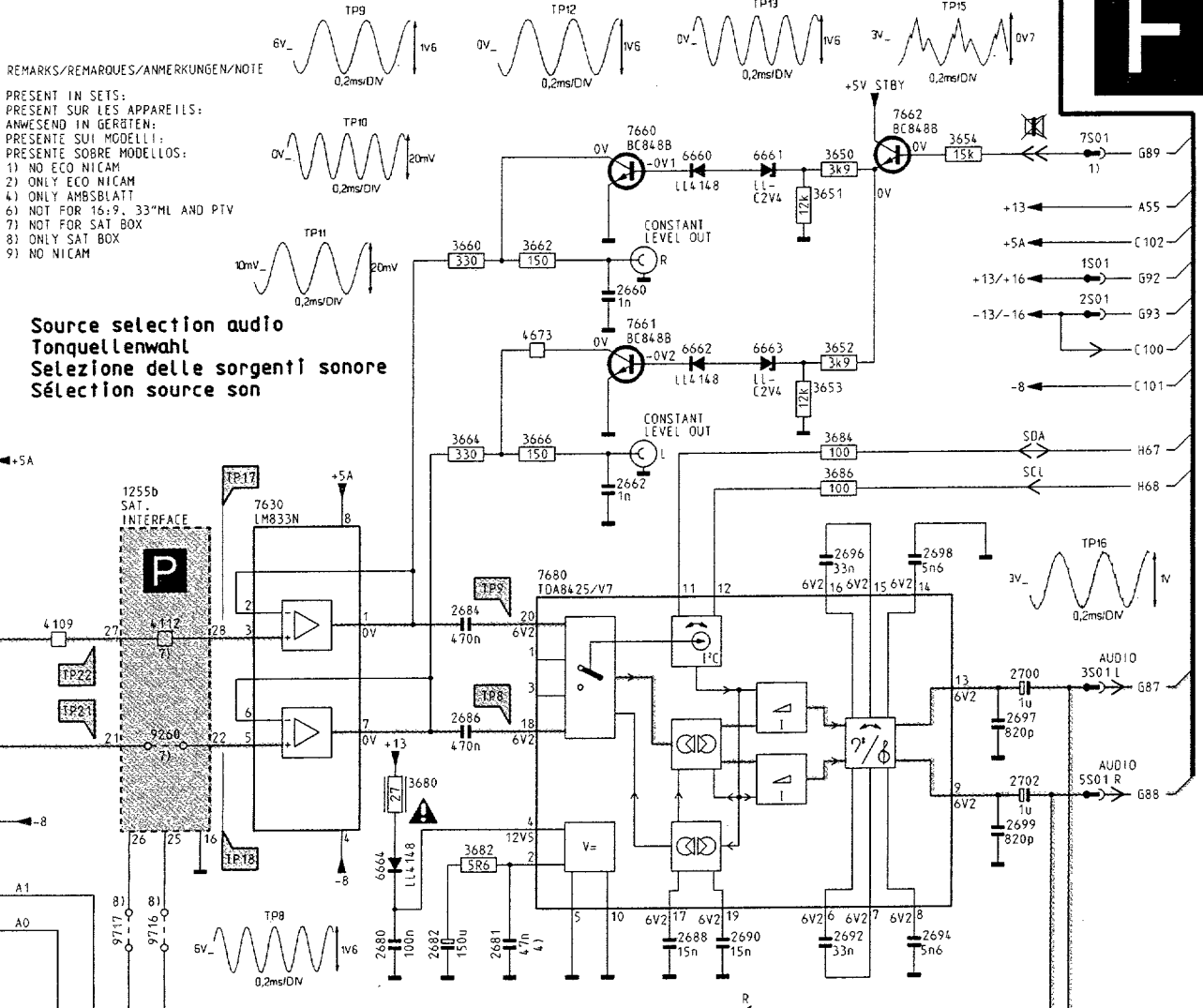
# Traitement audio



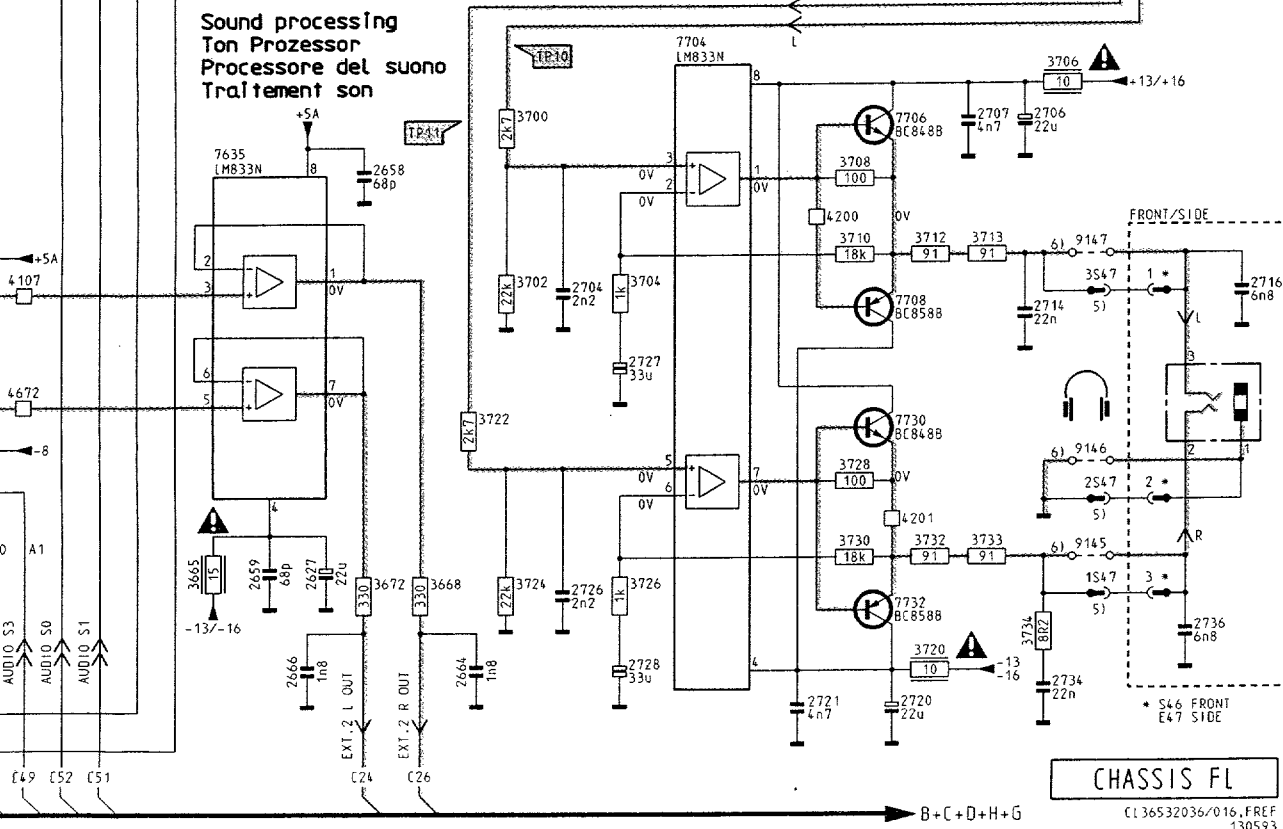
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

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 AMBSBLATT  
 6) NOT FOR 16-9, 33"HL AND PTV  
 7) NOT FOR SAT BOX  
 8) ONLY SAT BOX  
 9) NO NICAM

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



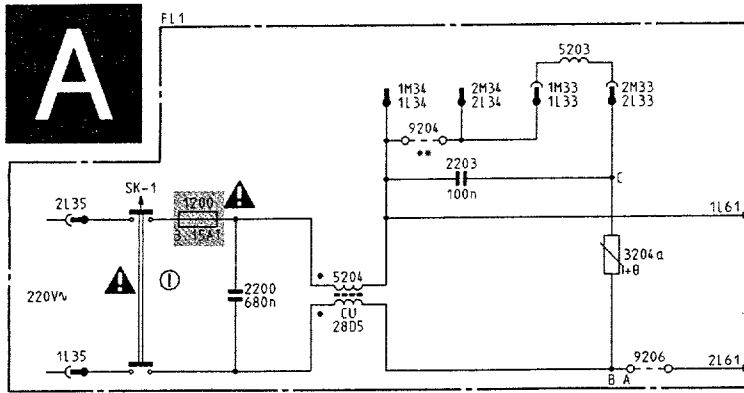
## Sound processing Ton Processor Processore del suono Traitement son



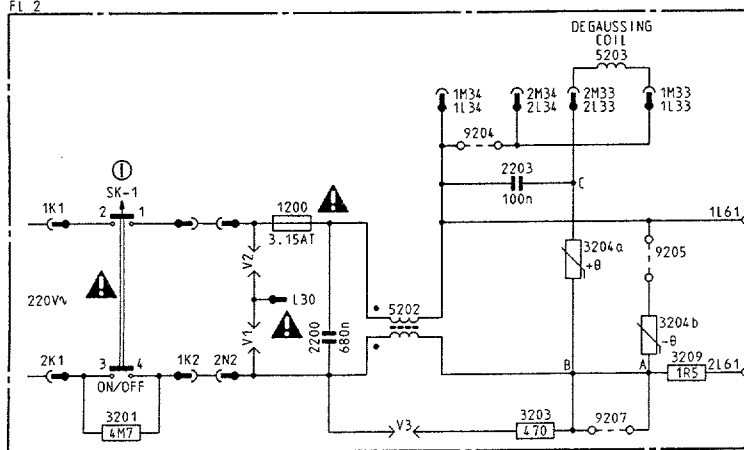
CHASSIS FL  
 C136532036/016, FREF  
 130593

1255	E11	4110	D 7
1600	E 2	4112	F12
1602	M 1	4166	D 5
2600	G 2	4200	K17
2602	H 1	4201	M17
2604	E 2	4672	L11
2606	N 3	4673	C15
2608	M 2	6610	N 5
2620	H 5	6660	B16
2622	H 4	6661	B17
2624	B 6	6662	O16
2626	A 7	6663	D17
2628	H13	6664	H14
2629	C 6	6665	M 3
2630	B 7	7600	I 1
2632	D 6	7620	A 9
2634	C 7	7622	J 9
2636	D 6	7630	E12
2638	D 6	7635	J12
2640	E 6	7660	B16
2642	E 7	7661	C16
2644	F 6	7662	B18
2646	F 7	7680	E15
2658	J13	7704	L16
2659	M12	7706	J17
2660	C16	7708	K17
2662	E16	7730	L17
2664	N14	7732	N17
2666	N13	9145	M19
2680	H14	9146	M19
2681	H15	9147	K19
2682	H14	9260	G12
2684	F14	9641	G 2
2686	G14	9716	H12
2688	H16	9717	H11
2690	H16		
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	N19		
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	M 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 7		
3644	F 6		
3646	F 7		
3650	B17		
3651	B17		
3652	D17		
3653	D17		
3654	B18		
3660	C14		
3662	C15		
3664	D14		
3665	H12		
3666	O15		
3668	N14		
3672	N13		
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		
4105	G 4		
4106	G 5		
4107	K11		
4109	F11		



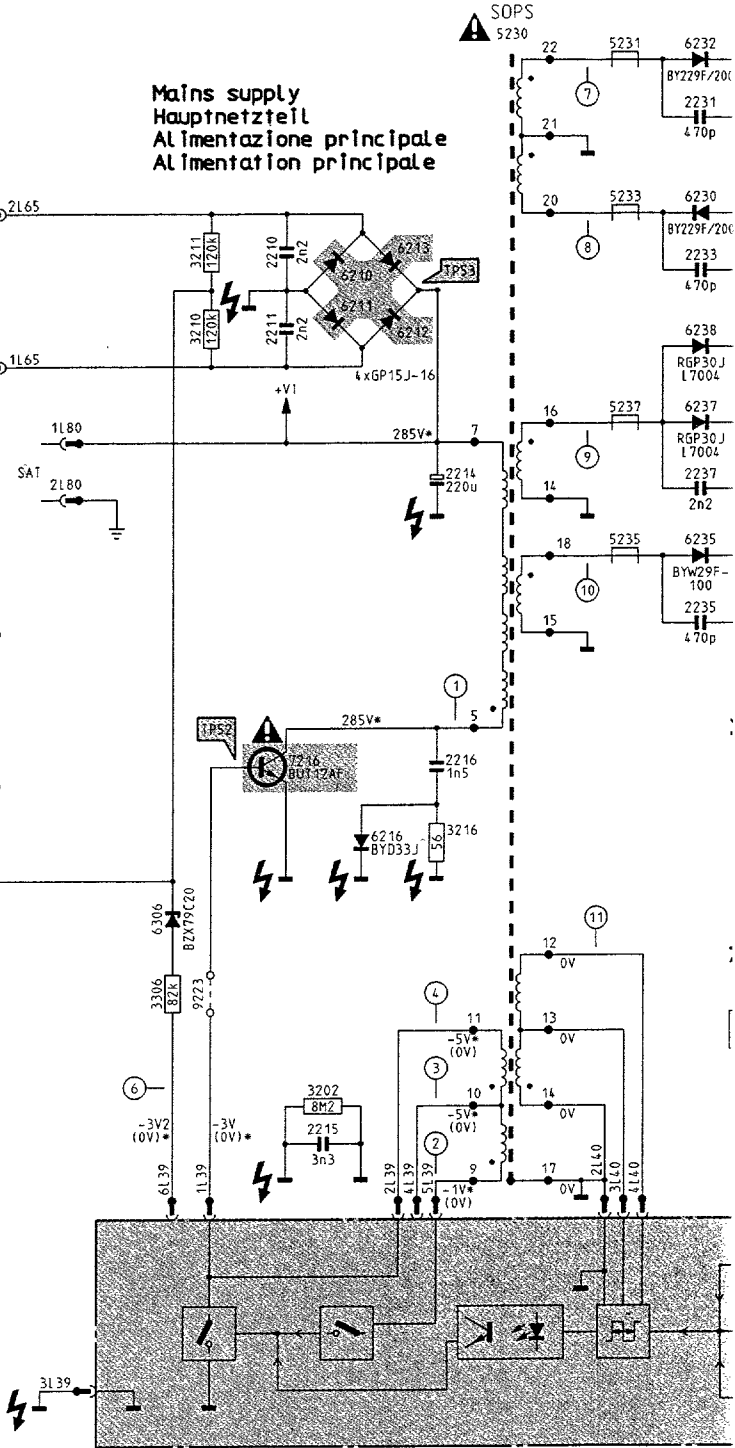


Mains supply  
Hauptnetzteil  
Alimentazione principale  
Alimentation principale

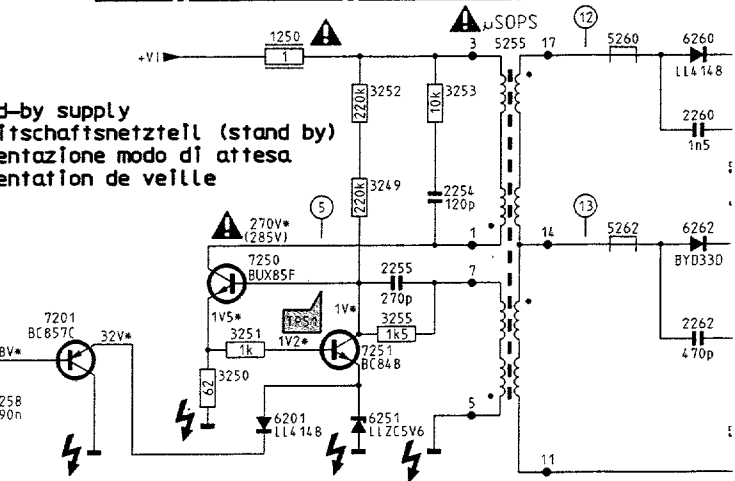


REMARKS / REMARQUES / ANMERKUNGEN / NOTE

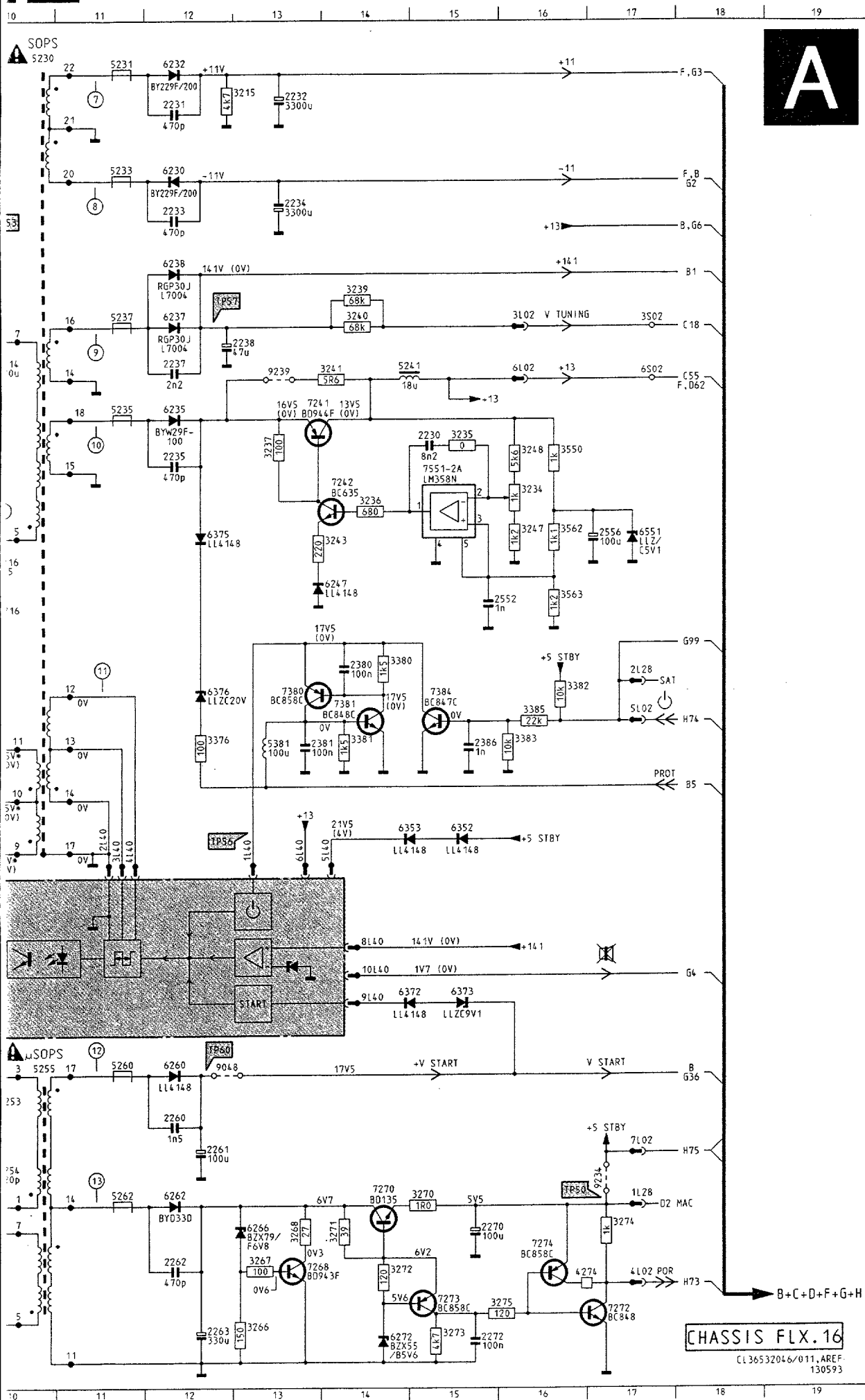
	25"	28"	33"
3205	-	-	X
5204	-	-	X
9204	X	X	-
9205	-	-	X
9206	X	X	-



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



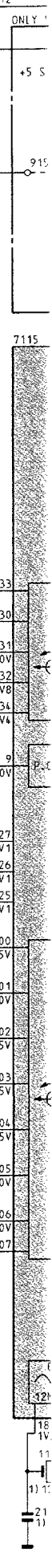
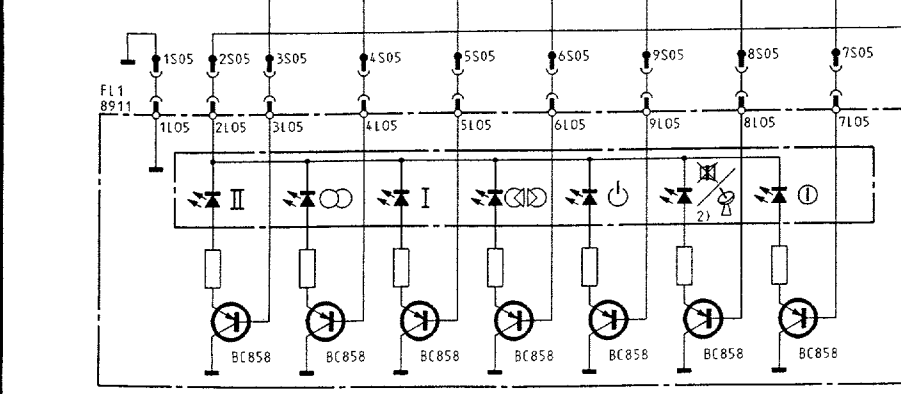
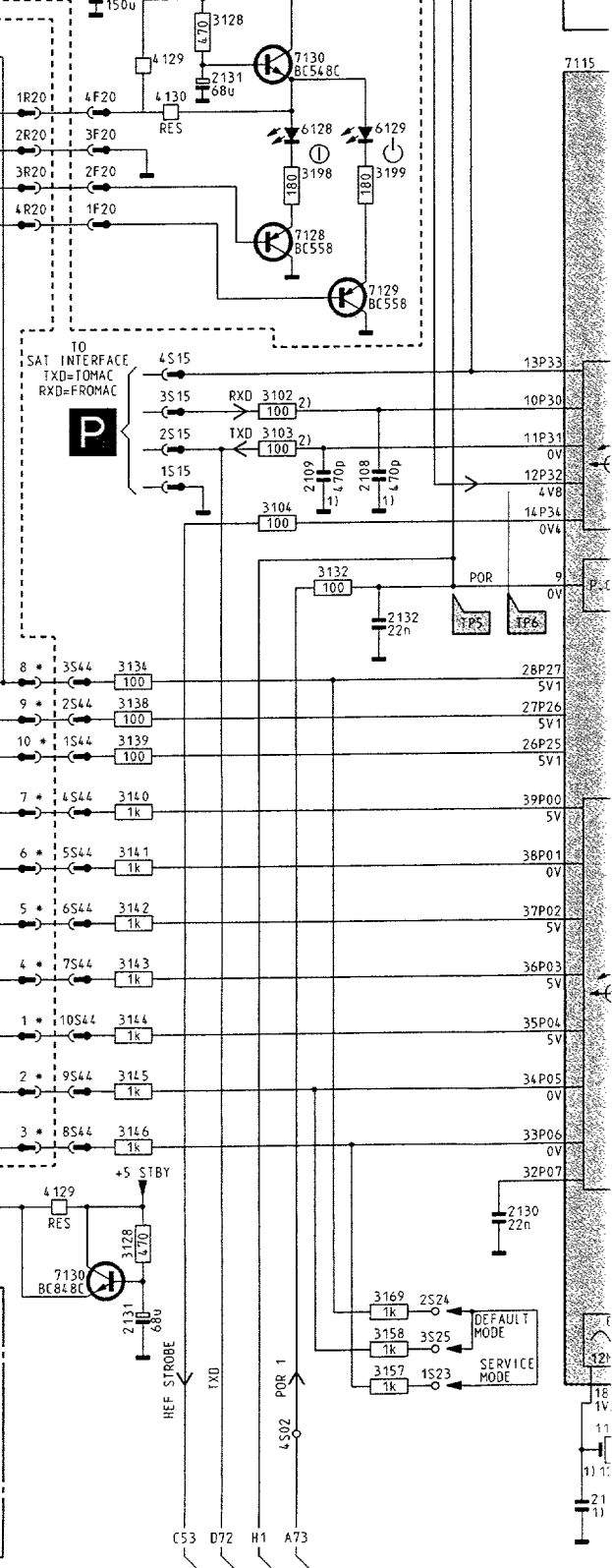
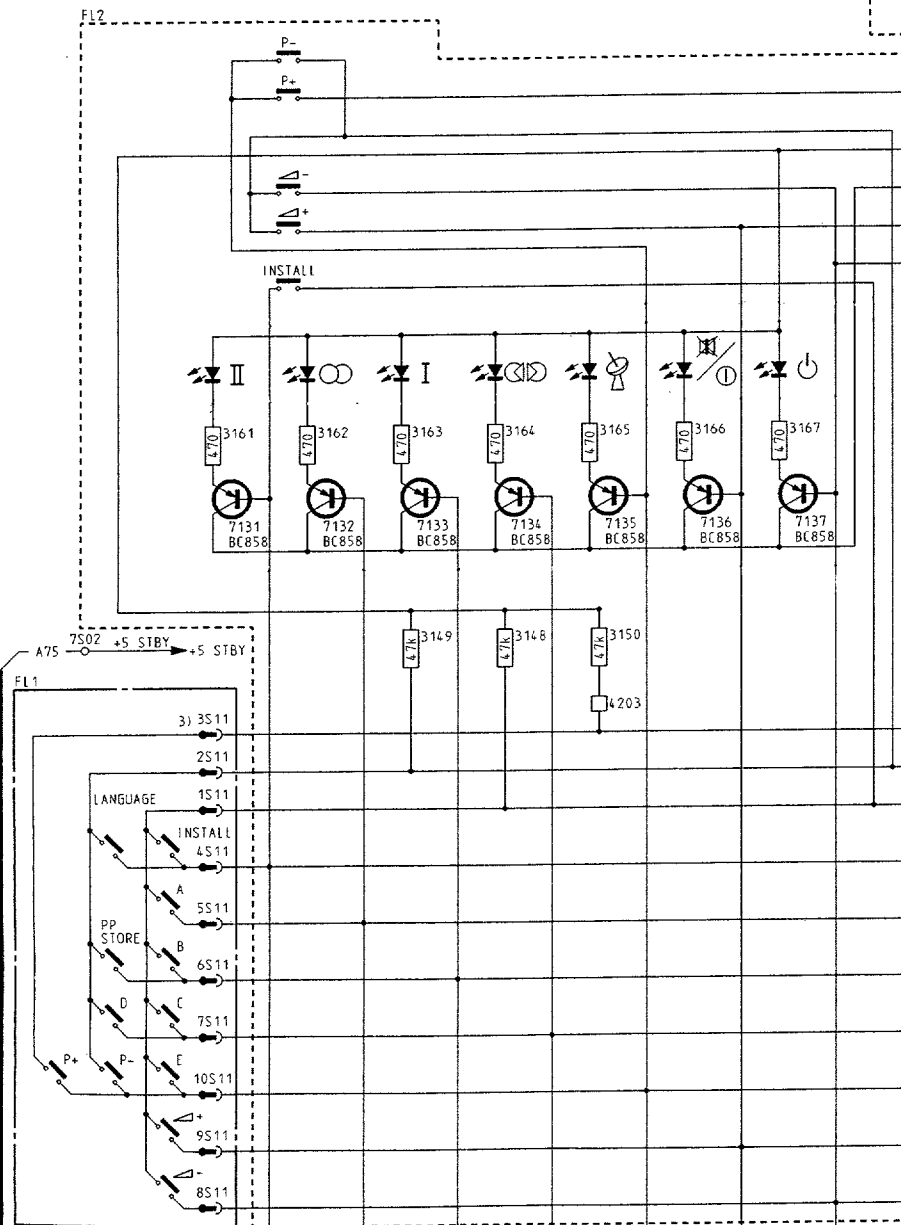
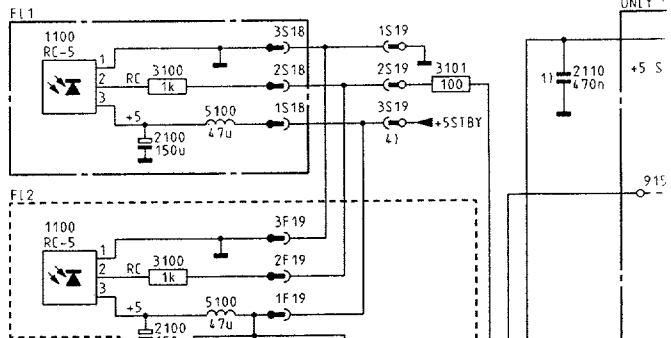
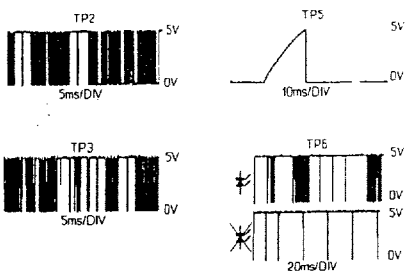
\* MEASURED IN RESPECT OF MISURATO NEI CONFRONTI DI (...V)

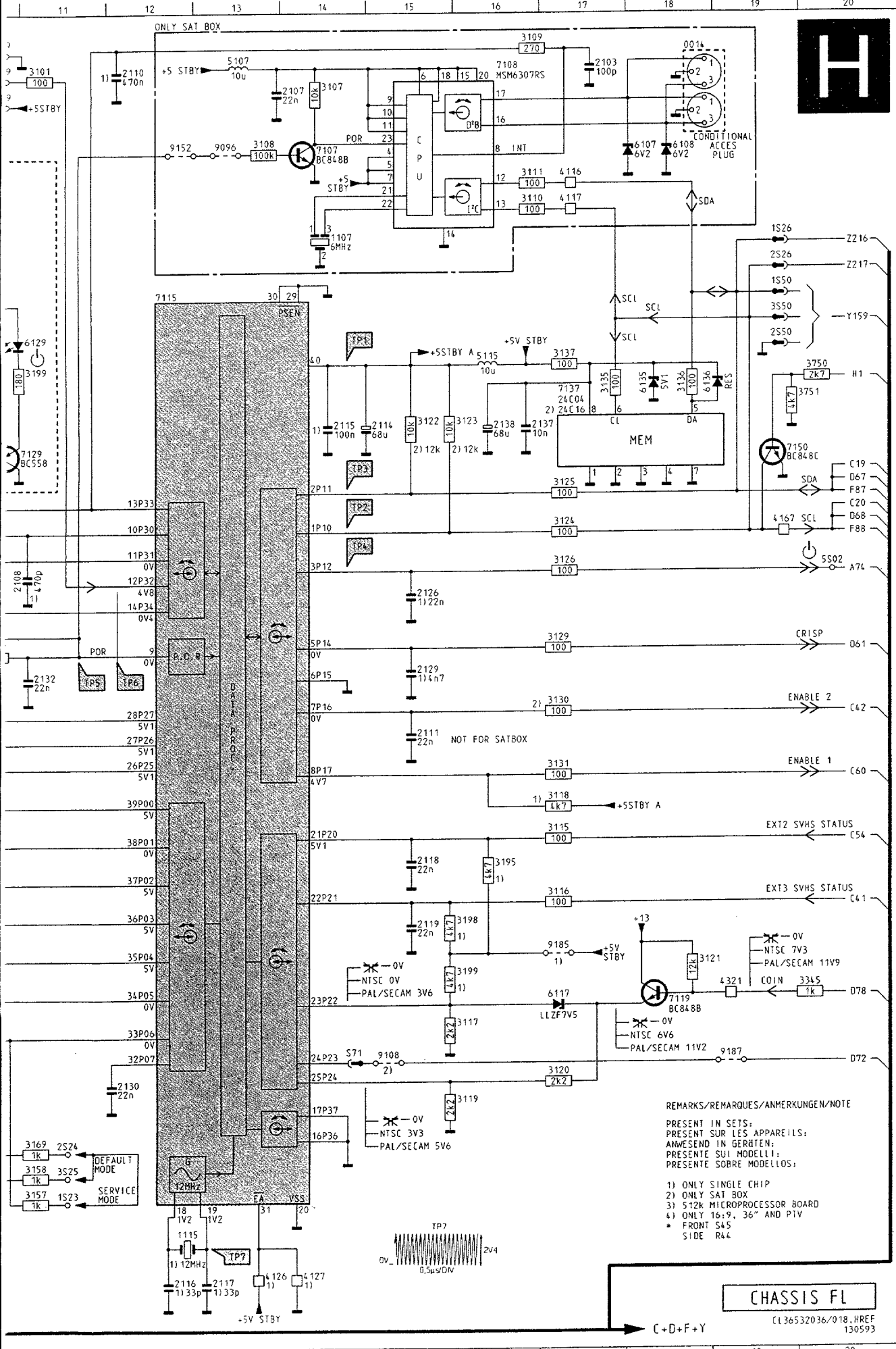


1200	B 2	6352	I 15
1200	E 3	6353	I 14
1250	L 9	6372	K 14
2200	F 3	6373	K 15
2200	C 2	6375	F 12
2203	E 4	6376	H 12
2203	B 4	6551	F 17
2210	B 9	7201	N 7
2211	C 9	7216	F 9
2214	D 10	7241	E 13
2215	I 9	7242	F 14
2216	F 10	7250	N 8
2230	E 15	7251	N 9
2231	A 12	7268	N 13
2232	A 13	7270	H 14
2233	B 12	7272	O 17
2234	B 13	7273	O 15
2235	E 12	7274	N 16
2237	D 12	7380	H 13
2238	D 12	7381	H 14
2254	M 10	7384	H 15
2255	N 9	7551	E 15
2258	O 6	9048	L 12
2260	M 12	9204	A 4
2261	M 12	9204	E 4
2262	N 12	9205	F 6
2263	O 12	9206	C 5
2270	N 15	9207	G 5
2272	O 15	9223	H 8
2380	H 14	9234	H 17
2381	H 13	9239	F 15
2386	H 15		
2552	G 15		
2552	F 17		
3201	G 1		
3202	I 9		
3203	G 5		
3204	B 5		
3204	E 5		
3204	F 6		
3209	F 6		
3210	C 8		
3211	B 8		
3212	N 6		
3213	O 6		
3215	A 13		
3216	G 10		
3234	E 16		
3235	E 15		
3236	F 14		
3237	E 13		
3239	C 14		
3240	D 14		
3241	D 14		
3243	F 14		
3247	F 16		
3248	E 16		
3249	M 9		
3250	O 8		
3251	N 8		
3252	L 9		
3253	L 10		
3255	N 9		
3266	O 13		
3267	N 13		
3268	N 13		
3270	N 15		
3271	N 14		
3272	N 14		
3273	O 15		
3274	N 17		
3275	O 16		
3306	H 8		
3376	H 12		
3380	G 14		
3381	H 14		
3382	H 16		
3383	H 16		
3385	H 16		
3550	E 16		
3562	F 16		
3563	G 16		
4102	N 17		
4274	N 16		
5202	F 4		
5203	A 5		
5203	D 5		
5204	C 3		
5230	A 10		
5231	A 11		
5233	B 11		
5235	E 11		
5237	D 11		
5241	D 14		
5255	L 10		
5260	L 11		
5262	N 11		
5381	H 13		
6201	O 9		
6210	C 9		
6211	C 9		
6212	C 9		
6213	B 9		
6216	G 9		
6230	B 12		
6232	A 12		
6235	E 12		
6237	O 12		
6238	C 12		
6247	G 14		
6251	O 9		
6260	L 12		
6262	N 12		
6266	N 13		
6272	O 14		
6306	H 8		

CHASSIS FLX. 16

CL 36532046/011, AREF 130593

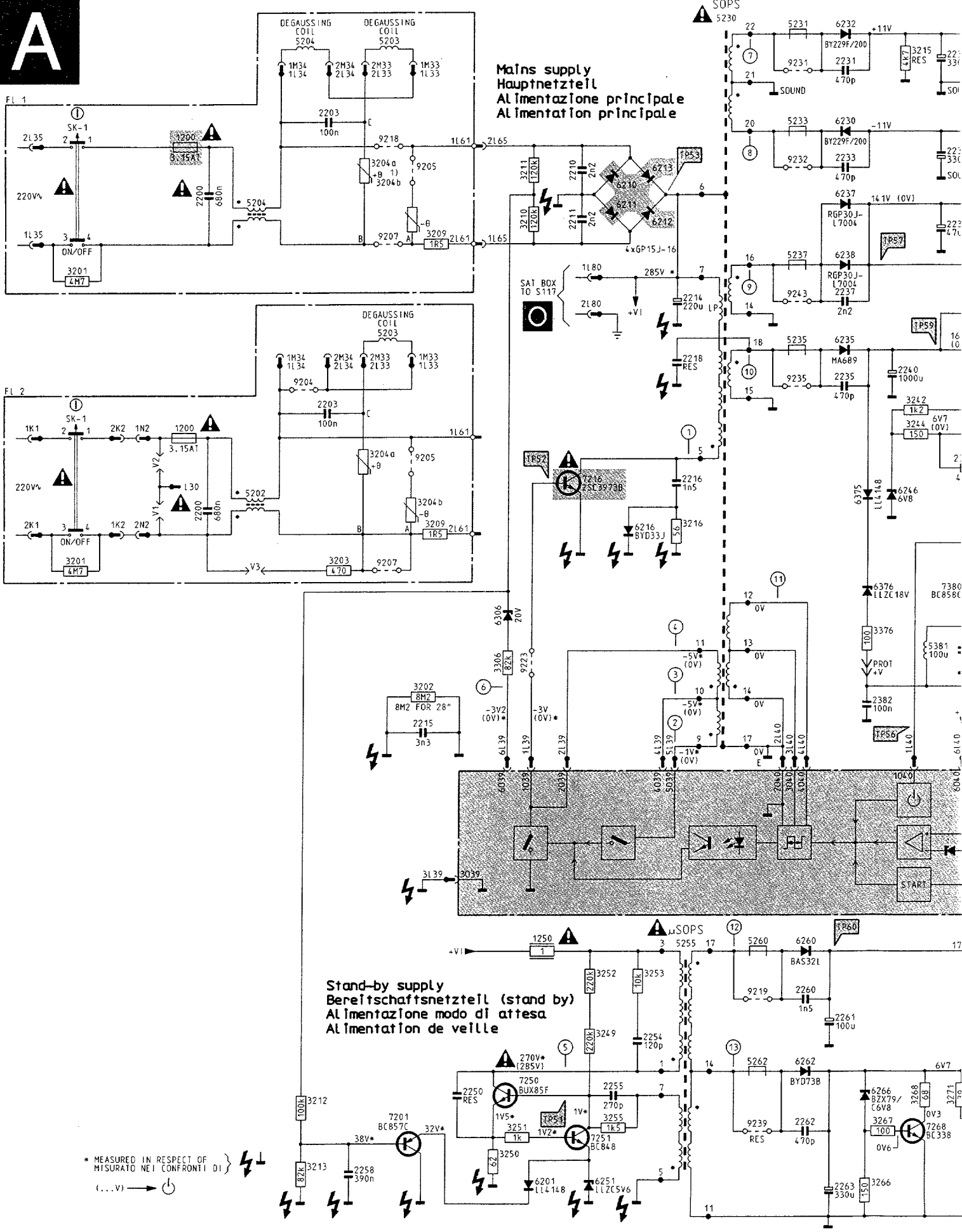




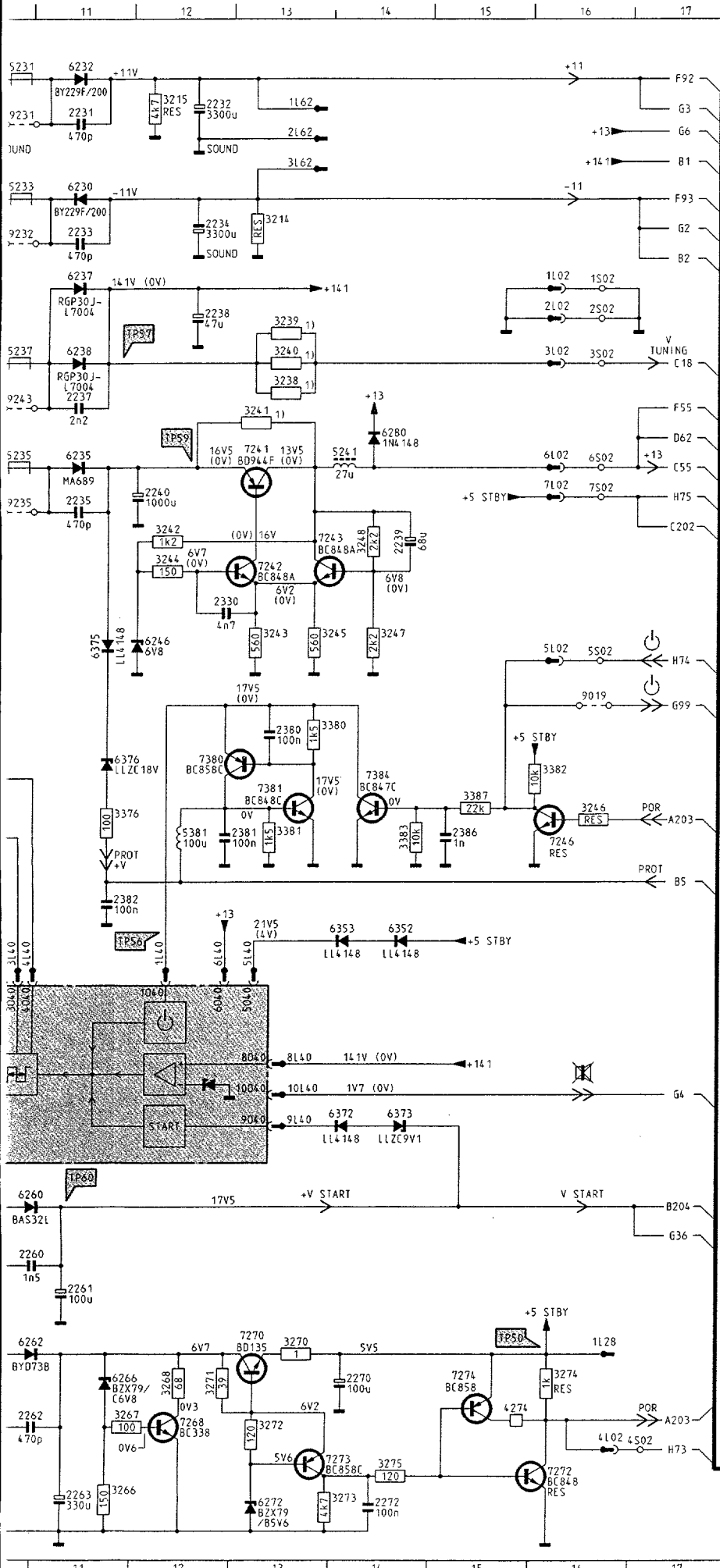
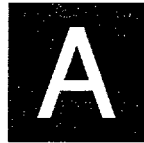
0014	A18	7128	E10
1001	A 6	7129	E10
1100	A 8	7130	M 8
1100	B 8	7130	D10
1107	C14	7131	G 2
1115	N12	7132	G 3
2100	B 8	7133	G 4
2100	C 8	7134	G 4
2103	A17	7135	G 5
2107	A14	7136	G 6
2108	G11	7137	G 7
2109	G10	7137	E17
2110	A12	7150	E19
2111	I15	8911	M 1
2114	E15	9096	B13
2115	E14	9108	L15
2116	O12	9152	B12
2117	O13	9185	K17
2118	J15	9187	L19
2119	K15		
2126	G15		
2129	H15		
2130	M12		
2131	M 9		
2131	D 9		
2132	H11		
2137	E16		
2138	E16		
3100	A 9		
3100	B 9		
3101	A11		
3102	F10		
3103	F10		
3104	G10		
3107	A14		
3108	B13		
3109	A16		
3110	B16		
3111	B16		
3115	J17		
3116	J17		
3117	L16		
3118	L17		
3119	M16		
3120	M17		
3121	K18		
3122	E15		
3123	E16		
3124	F17		
3125	F17		
3126	G17		
3128	M 9		
3128	C 9		
3129	H17		
3130	H17		
3131	I17		
3132	H10		
3134	H 9		
3135	E17		
3136	E18		
3137	D17		
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	M11		
3158	N11		
3161	F 2		
3162	F 3		
3163	F 4		
3164	F 4		
3165	F 5		
3166	F 6		
3167	F 7		
3169	M11		
3195	J16		
3198	D10		
3198	K15		
3199	D11		
3199	K16		
3345	L20		
3750	O20		
3751	E19		
4116	B17		
4117	B17		
4126	O13		
4127	O14		
4129	L 8		
4129	D 9		
4130	D 9		
4167	F19		
4203	H 5		
4321	L19		
5100	A 9		
5100	C 9		
5107	A13		
5115	D16		
6107	B18		
6108	B18		
6117	L17		
6128	D10		
6129	D11		
6135	E18		
6136	E18		
7107	A16		
7115	D12		
7119	L18		

REMARKS/REMARQUES/ANMERKUNGEN/NOTE  
 PRESENT IN SETS:  
 PRESENT SUR LES APPAREILS:  
 ANWESEND IN GERÄTEN:  
 PRESENTE SUI MODELLI:  
 PRESENTE SOBRE MODELOS:  
 1) ONLY SINGLE CHIP  
 2) ONLY SAT BOX  
 3) 512K MICROPROCESSOR BOARD  
 4) ONLY 16:9, 36" AND PTV  
 \* FRONT S45  
 SIDE R44

CHASSIS FL  
 CL36532036/018\_HREF  
 130593

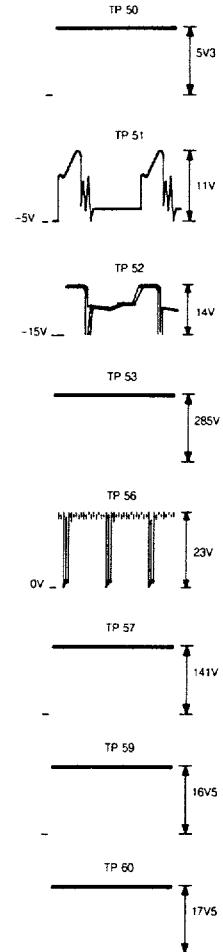


\* MEASURED IN RESPECT OF MISURATO NEI CONFRONTI DI (...V) →



1)

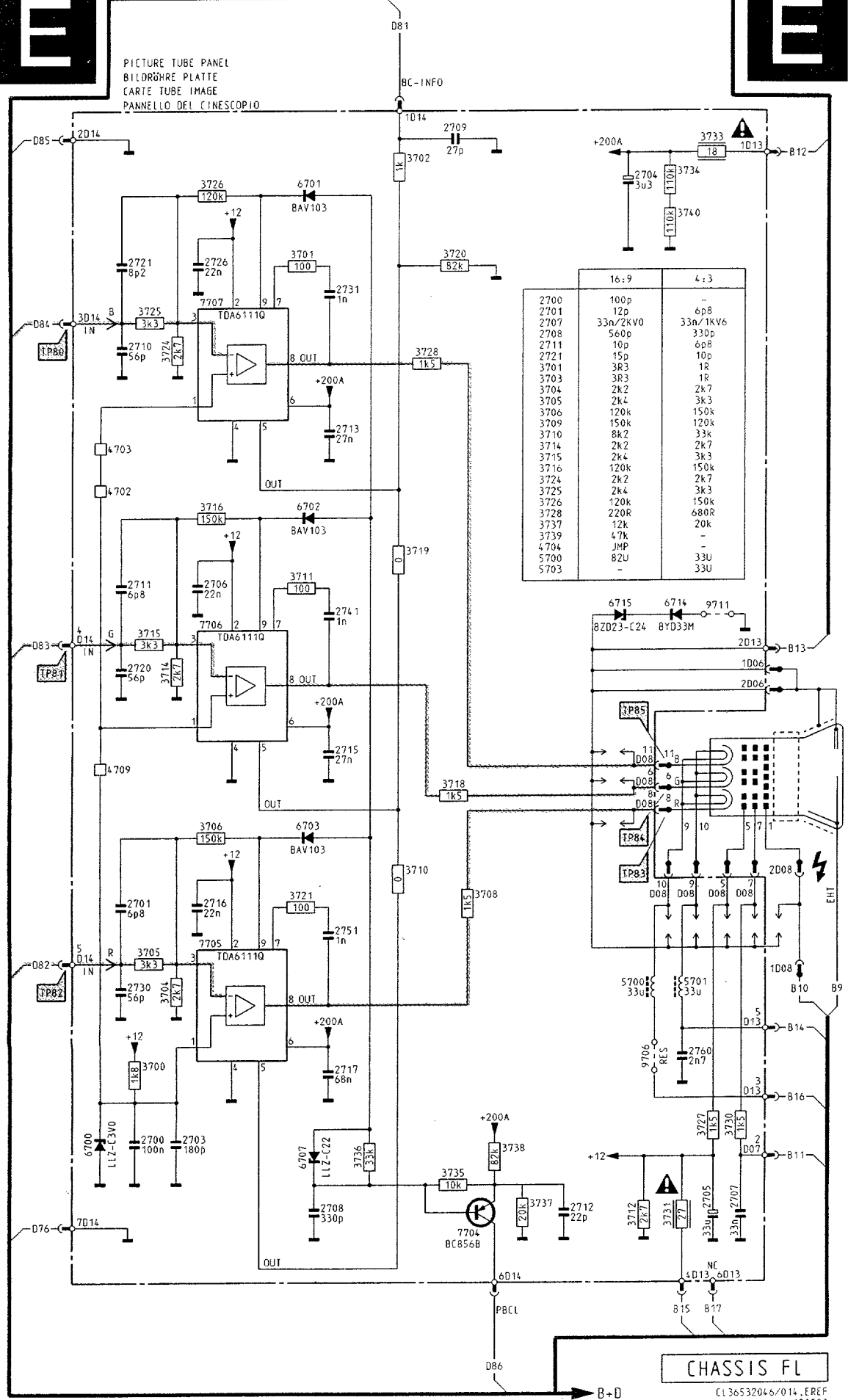
	28"	32"	36"	2 TUNER P I P	NON P I P	P I P
3238	---	---	---	100k	300k	300k
3239	---	---	---	100k	300k	300k
3240	---	---	---	100k	300k	300k
3241	---	---	---	2R2	4R7	2R7



CHASSIS FLX.14  
 CL36532036/011,AREF  
 130593

- B 2 6237 C11
- 1200 F 2 6238 D11
- 2200 C 2 6246 G12
- 2200 G 2 6251 O 8
- 2202 B 3 6260 L11
- 2203 B 4 6262 N11
- 2203 E 4 6266 M11
- 2210 C 8 6272 O13
- 2211 C 8 6280 D14
- 2214 D 9 6306 H 7
- 2215 I 6 6352 L14
- 2216 F 9 6353 L14
- 2218 E 9 6372 K14
- 2231 A11 6373 K14
- 2232 A12 6375 G11
- 2233 B11 6376 H11
- 2234 B12 7201 N 6
- 2235 E11 7216 F 8
- 2237 D11 7241 E13
- 2238 C12 7242 F13
- 2239 E14 7243 F13
- 2240 E12 7246 H16
- 2250 N 6 7250 N 7
- 2254 M 9 7251 N 8
- 2255 N 8 7268 N12
- 2258 O 5 7270 M13
- 2260 M11 7272 O16
- 2261 M11 7273 O13
- 2262 N11 7274 N15
- 2263 O11 7380 H12
- 2270 N14 7381 H13
- 2272 O14 7384 H14
- 2330 F12 9019 G16
- 2380 G13 9204 E 4
- 2381 H12 9205 C 5
- 2382 I11 9205 F 5
- 2386 H15 9206 C 5
- 3201 D 2 9206 G 5
- 3201 G 2 9207 D 5
- 3202 I 6 9207 G 5
- 3203 C 5 9218 B 5
- 3203 G 4 9219 M10
- 3204 B 5 9223 I 7
- 3204 C 5 9231 A10
- 3204 F 5 9232 B10
- 3209 C 5 9235 E10
- 3209 G 5 9239 N10
- 3209 G 5 9242 B 5
- 3210 C 7 9242 E 5
- 3211 C 7 9243 D10
- G 3212 N 4
- 3213 O 4
- 3214 B13
- 3215 A12
- 3216 G 9
- 3235 L 7
- 3238 D13
- 3239 C13
- 3240 O13
- 3241 D13
- 3242 E12
- 3243 F13
- 3244 F12
- 3245 F13
- 3246 H16
- 3247 F14
- 3248 E14
- 3249 H 8
- 3250 O 7
- 3251 N 7
- 3252 L 8
- 3253 L 9
- J 3255 N 8
- 3266 O11
- 3267 N11
- 3268 N12
- 3270 N13
- 3271 N12
- 3272 N13
- 3273 O14
- K 3274 N16
- 3275 O14
- 3275 N14
- 3275 N16
- 3306 I 7
- 3376 H11
- 3380 G13
- L 3381 H13
- 3382 H16
- 3383 H14
- 3387 H15
- 4274 N15
- M 5202 G 3
- 5203 A 5
- 5203 E 5
- 5204 C 3
- 5204 A 4
- 5230 A 9
- 5231 A10
- N 5233 B10
- 5235 E10
- 5237 D10
- 5241 E14
- 5255 L 9
- 5260 L10
- 5262 N10
- 5381 O12
- 6201 O 7
- 6210 C 8
- 6211 C 8
- 6212 C 9
- 6213 C 9
- 6216 G 8
- 6230 B11
- 6232 A11
- 6235 E11

PICTURE TUBE PANEL  
BILDROHRE PLATTE  
CARTE TUBE IMAGE  
PANNELLO DEL CINESCOPIO



	16:9	4:3
2700	100p	-
2701	12p	6p8
2707	33n/2kV0	33n/1kV6
2708	560p	330p
2711	10p	6p8
2721	15p	10p
3701	3R3	1R
3703	3R3	1R
3704	2k2	2k7
3705	2k4	3k3
3706	120k	150k
3709	150k	120k
3710	8k2	33k
3714	2k2	2k7
3715	2k4	3k3
3716	120k	150k
3724	2k2	2k7
3725	2k4	3k3
3726	120k	150k
3728	220R	680R
3737	12k	20k
3739	47k	-
4704	JMP	-
5700	82U	33U
5703	-	33U

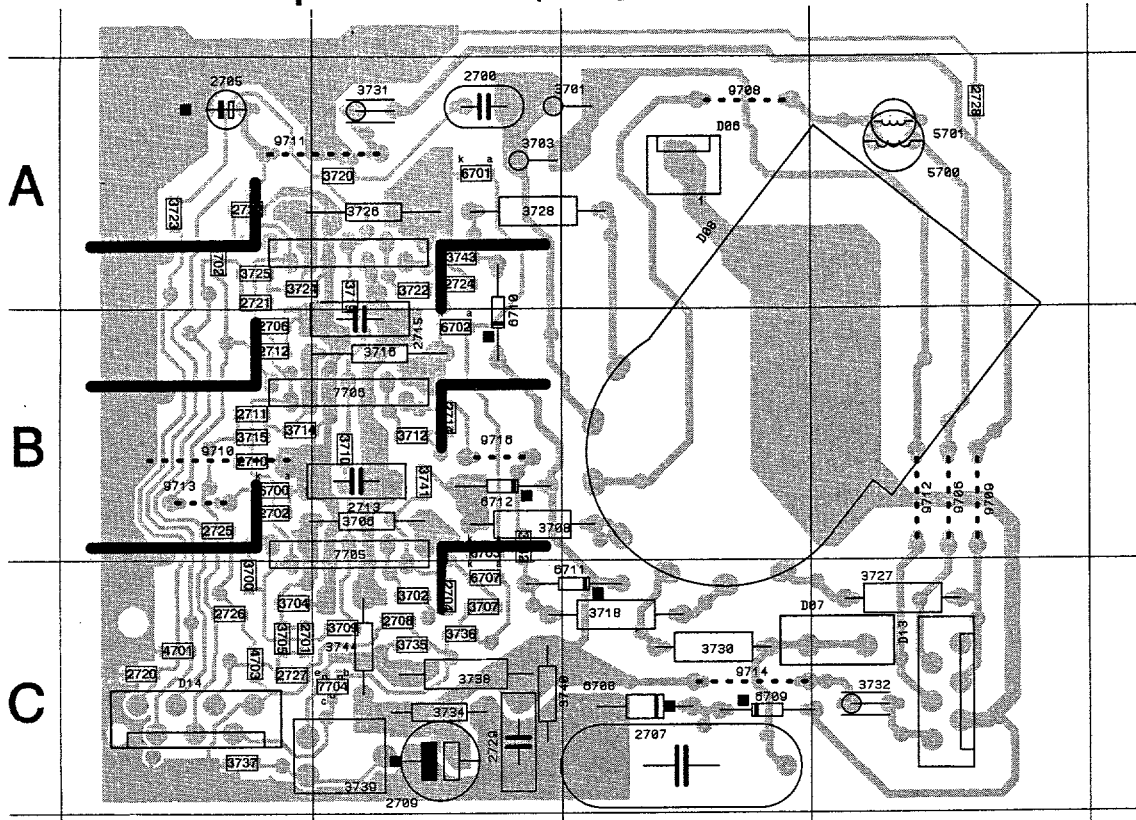
CHASSIS FL  
CL36532046/014, EREF  
130593

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

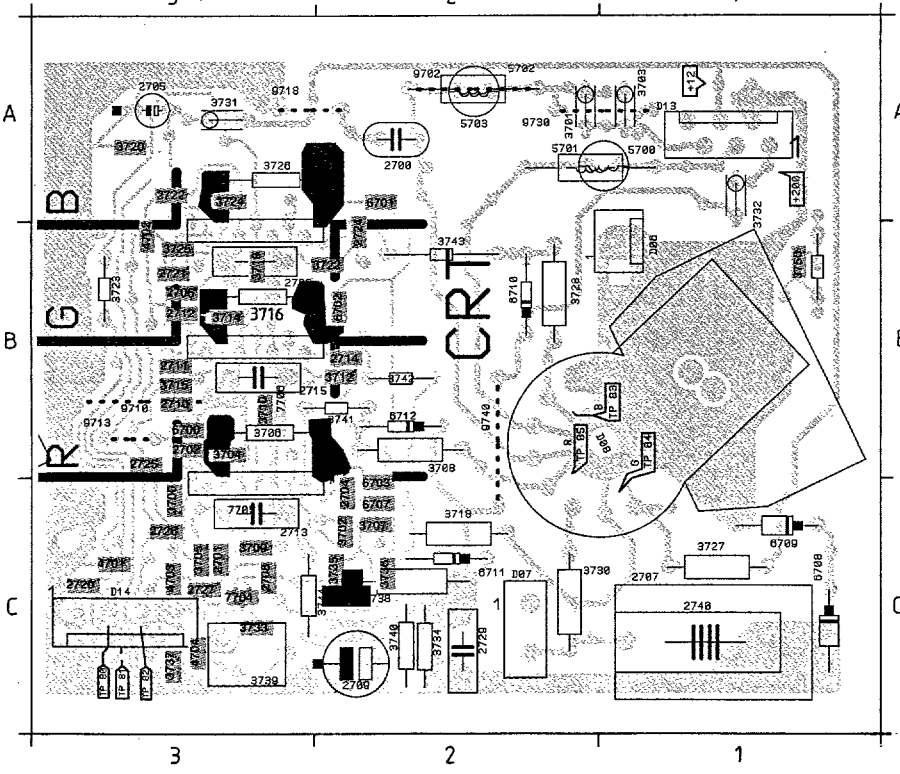
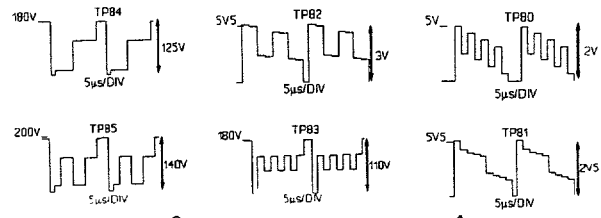


# Platines Tube-image

## Videocolor picture tube (36")



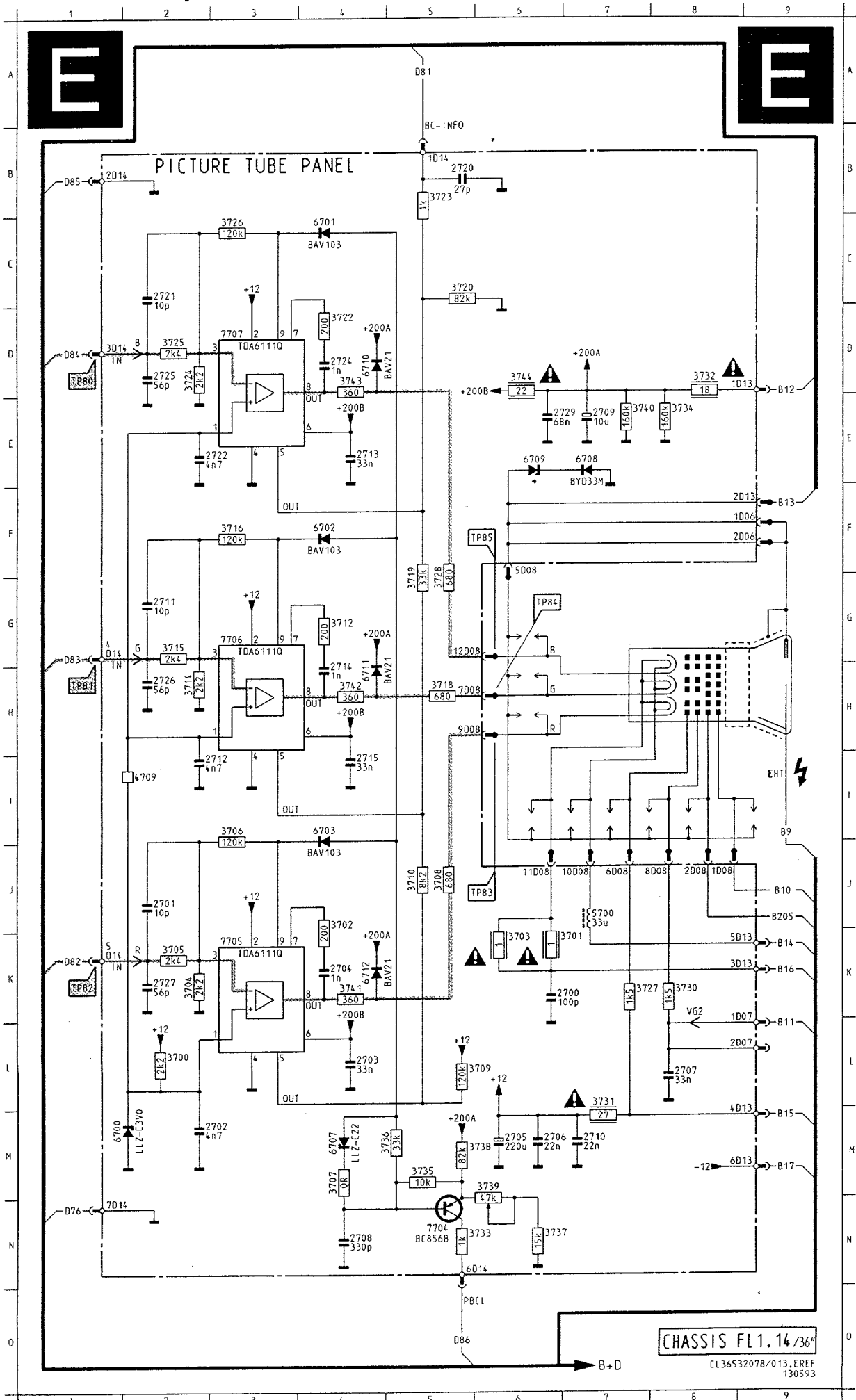
D06 A2	3708 B3	6701 A3
D07 C1	3709 C3	6702 B3
D08 B2	3710 B3	6703 B3
D13 C1	3712 B3	6707 C3
D14 C4	3714 B4	6708 C2
2700 A3	3715 B4	6709 C2
2701 C4	3716 B3	6710 B3
2702 B4	3718 C2	6711 C3
2704 C3	3719 A3	6712 B3
2705 A4	3720 A3	7704 C4
2706 B4	3722 A3	7705 B3
2707 C3	3723 A4	7706 B3
2708 C3	3724 A4	7707 A3
2709 C3	3725 A4	8706 B1
2710 B4	3726 A3	8708 A2
2711 B4	3727 C1	8709 B1
2712 B4	3728 A3	8710 B4
2713 B3	3730 C2	8711 A4
2714 B3	3731 A3	8712 B1
2715 B3	3732 C1	8713 B4
2720 C4	3734 C3	8714 C2
2721 A4	3735 C3	8716 B3
2722 A4	3736 C3	
2724 A3	3737 C4	
2725 B4	3738 C3	
2726 C4	3739 C3	
2727 C4	3740 C3	
2728 A1	3741 B3	
2729 C3	3742 B3	
3700 C4	3743 A3	
3701 A3	3744 C3	
3702 C3	4701 C4	
3703 A3	4702 A4	
3704 C4	4703 C4	
3705 C4	6700 A1	
3706 B3	6701 A1	
3707 C3	6700 B4	



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



# Picture tube panel 36"



- 33 6701 A3
- 33 6702 B3
- 33 6703 B3
- 33 6707 C3
- 34 6708 C2
- 34 6709 C2
- 33 6710 B3
- 32 6711 C3
- A3 6712 B3
- A3 7704 C4
- A4 7706 B3
- A4 7706 B3
- A4 7707 A3
- A3 9708 B1
- A3 9708 A2
- C1 9708 B1
- A3 9710 B4
- C2 9711 A4
- A1 9712 B1
- C3 9713 B4
- C3 9714 C2
- C3 9716 B3

- 5701 A2
- 5702 A2
- 5703 A2
- 6700 B3
- 6701 A2
- 6702 B2
- 6703 C2
- 6707 C2
- 6708 C1
- 6709 C1
- 6710 B2
- 6711 C2
- 6712 B2
- 7704 C3
- 7705 C3
- 7706 B3
- 7707 B3
- 9702 A2
- 9710 B3
- 9713 B3
- 9718 A3
- 9730 A1
- 9740 B2

- 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
- 2700 L 2
- 2701 K 6
- 2702 J 4
- 2703 K 6
- 2704 K 2
- 2705 K 2
- 2706 I 3
- 2707 M 4
- 2708 J 5
- 2709 L 5
- 2710 J 5
- 2712 G 4
- 2714 H 2
- 2715 G 2
- 2716 F 3
- 2718 H 5
- 2719 G 5
- 2720 C 5
- 2722 D 4
- 2723 B 5
- 2724 B 2
- 2726 C 3
- 2727 K 7
- 2728 G 5
- 2730 K 8
- 2731 L 7
- 2732 D 8
- 2733 N 5
- 2734 E 8
- 2735 M 5
- 2736 M 5
- 2737 N 6
- 2738 M 5
- 2739 M 6
- 2740 E 7
- 2741 K 4
- 2742 H 4
- 2743 D 4
- 2744 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 FL1.14/36"  
 CL36532078/013, EREF  
 130593

# Audiogram

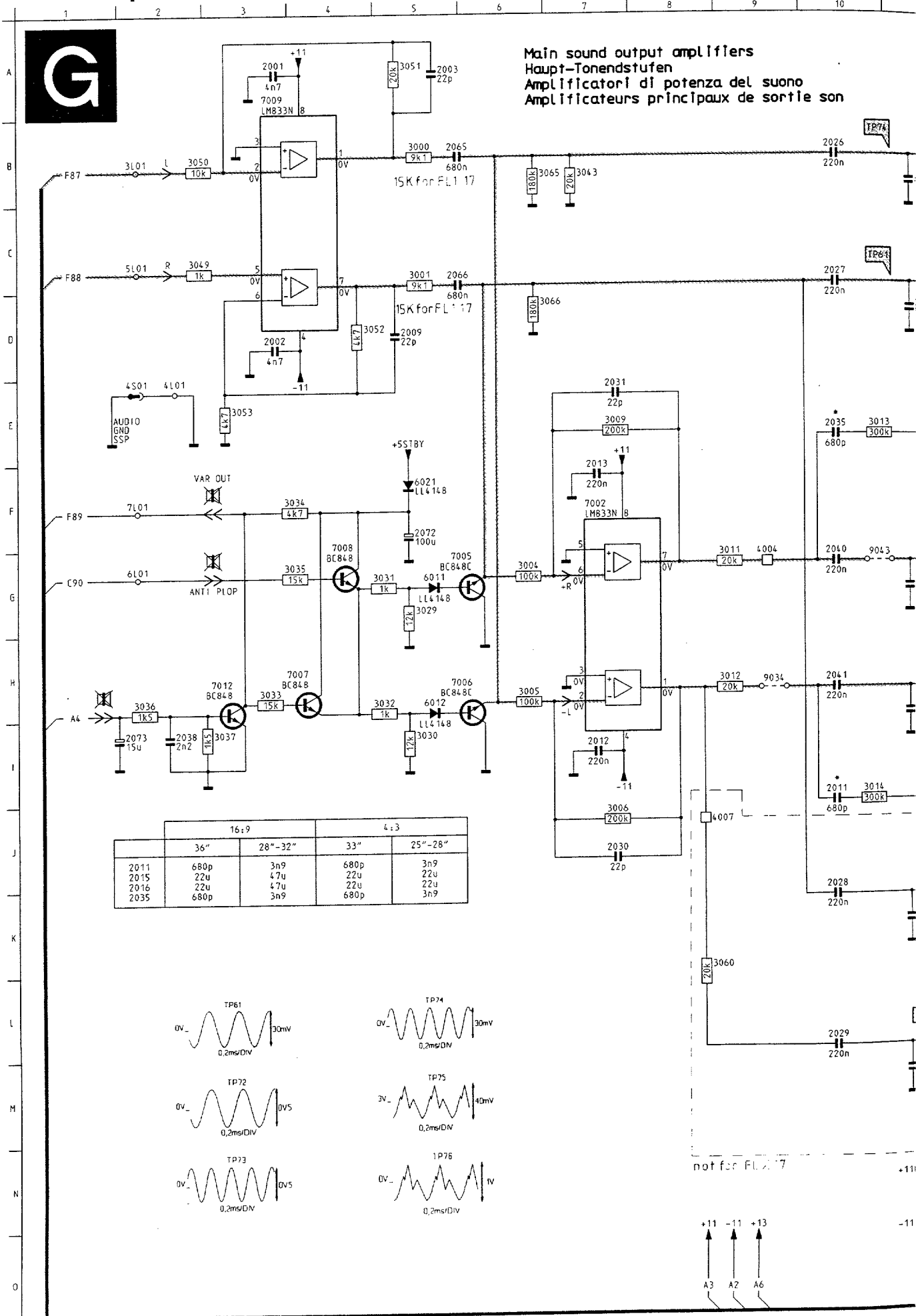


A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O

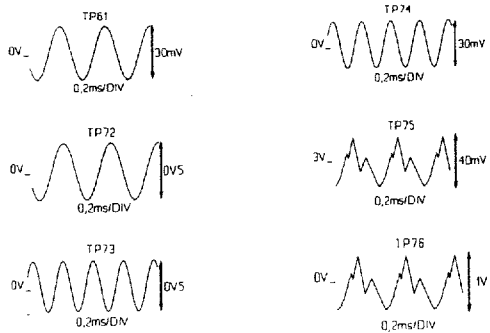




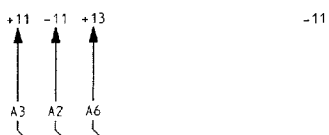
Main sound output amplifiers  
 Haupt-Tonendstufen  
 Amplificatori di potenza del suono  
 Amplificateurs principaux de sortie son



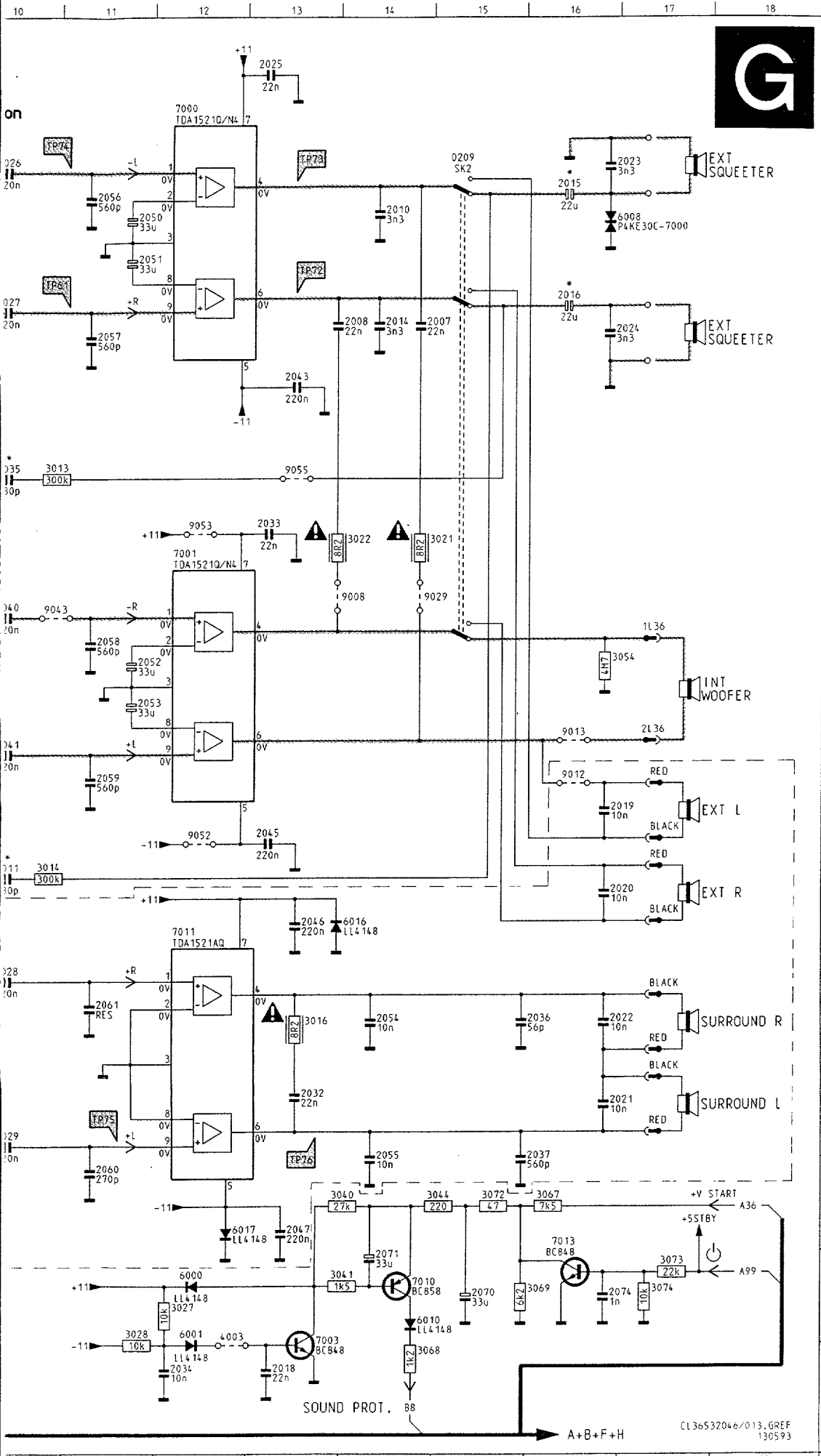
	16:9		4:3	
	36"	28"-32"	33"	25"-28"
2011	680p	3n9	680p	3n9
2015	22u	47u	22u	22u
2016	22u	47u	22u	22u
2035	680p	3n9	680p	3n9



not for FL X.17



# Amplificateur audio



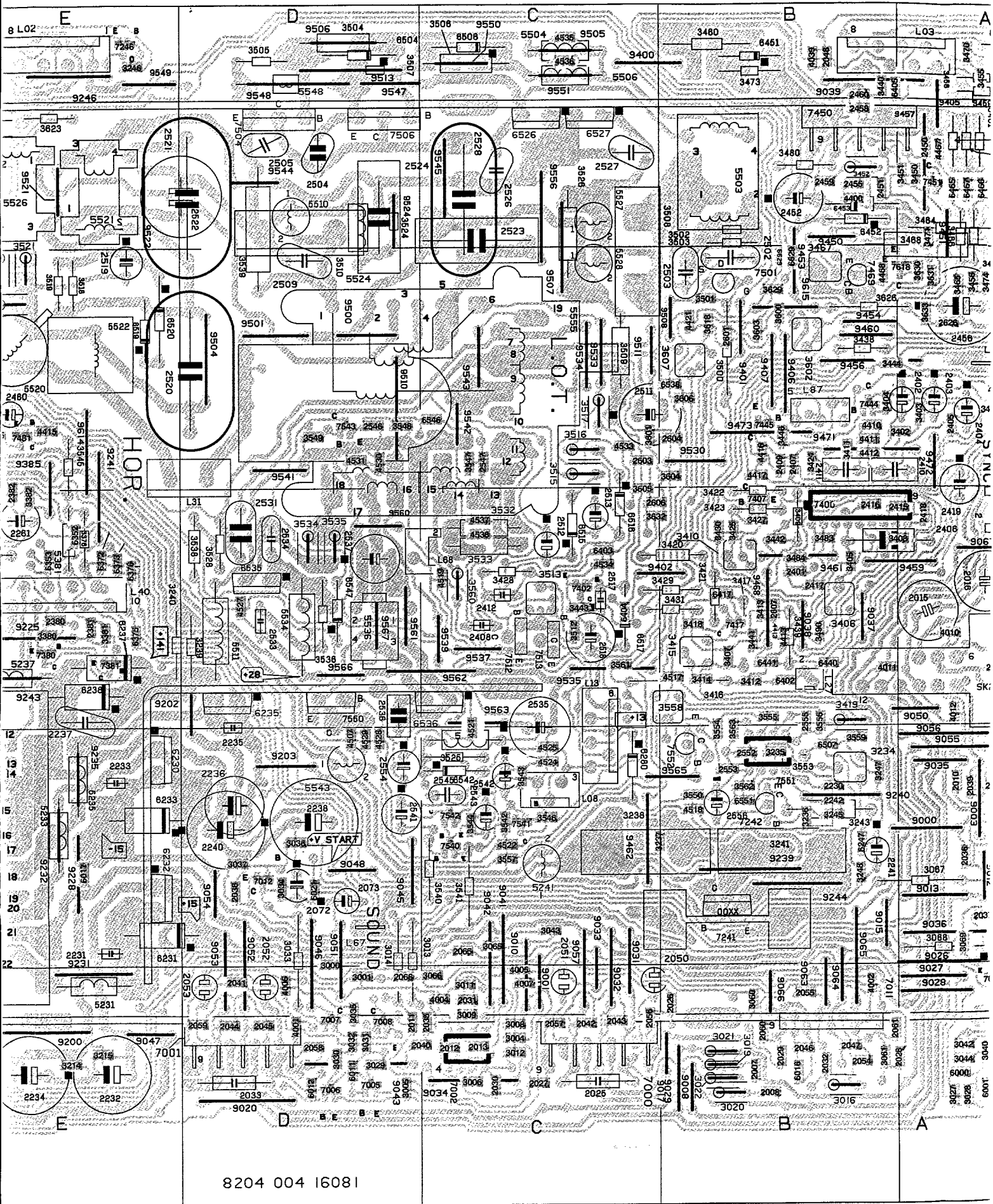
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2008	D14	7007	H 3
2009	D 5	7008	G 4
2010	B14	7009	A 3
2011	I10	7010	N14
2012	I 7	7011	J12
2013	F 7	7012	H 3
2014	D14	7013	M16
2015	B16	9008	F14
2016	C16	9012	H16
2018	O13	9013	H16
2019	I16	9029	F14
2020	J16	9034	H 9
2021	L16	9043	G10
2022	K16	9052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

CL36S32046/013, GREF 130S93

L01	F1	2072	D4	2524	D1	3214	E5	3421	B3	3548	D2	4538	C3	6417	B3	7380	E3	9045	D4	9406	B2
L02	E1	2073	D4	2526	C1	3215	E5	3422	B3	3549	D2	4520	H2	6440	B3	7381	E3	9046	D4	9407	B2
L03	A1	2074	A5	2527	C1	3216	F4	3423	B3	3550	B4	4520	F4	6441	B3	7384	E3	9047	E5	9450	B1
L08	C4	2200	H3	2528	C1	3220	G4	3424	B2	3553	B4	4521	E5	6451	B1	7400	B3	9048	D4	9451	A1
L13	C4	2202	G2	2529	F1	3230	F3	3425	B3	3554	B4	4523	E4	6452	B1	7402	C3	9050	A3	9453	B2
L27	B3	2203	H2	2530	F1	3234	B4	3426	A2	3555	B3	4525	E4	6453	B1	7403	A1	9051	D4	9454	B2
L28	G1	2210	F4	2531	D3	3235	B4	3427	B3	3556	B3	4527	E3	6465	A1	7407	B3	9052	D4	9456	B2
L30	A1	2211	F4	2533	D3	3236	B4	3428	C3	3557	C4	4521	C4	6466	A1	7417	B3	9053	D5	9457	A1
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L33	G2	2215	G4	2535	C4	3238	C4	3430	B3	3559	B4	4526	E3	6480	F1	7445	B2	9055	A4	9460	B2
L34	G2	2216	G5	2536	D3	3239	D3	3431	B3	3560	C3	4526	E3	6481	F1	7450	A1	9056	A4	9461	B3
L35	G3	2218	F5	2537	D3	3240	E3	3437	A1	3561	C3	4538	H5	6504	D1	7451	A1	9057	C5	9462	C4
L36	A2	2219	F5	2541	D4	3241	B4	3438	B2	3562	B4	4510	H5	6506	C1	7469	B2	9058	G2	9468	B3
L37	A3	2230	B4	2542	C4	3243	B4	3439	B3	3563	B4	4531	E3	6507	B4	7480	F2	9059	G1	9471	B2
L38	A2	2231	E4	2543	C4	3245	B4	3440	B1	3600	B2	4503	B1	6515	C3	7481	E2	9060	G1	9472	A2
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L40	E3	2233	E4	2546	D2	3247	B4	3442	B3	3602	B2	4506	C1	6517	C3	7504	D1	9064	B5	9500	D2
L61	G2	2234	E5	2547	C2	3248	B4	3443	C3	3603	B2	4510	D1	6519	E2	7506	D1	9065	B4	9501	D2
L62	E5	2235	D3	2552	B4	3249	F3	3444	B2	3604	B2	4511	D3	6520	E2	7512	C3	9066	B5	9504	D2
L65	G2	2236	D4	2553	B4	3250	F3	3446	B2	3605	C3	4514	F2	6526	C1	7513	C3	9067	A3	9505	C1
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L80	G4	2241	B4	2600	F1	3255	F3	3455	A1	3609	F1	4524	D1	6536	C3	7542	C4	9202	D3	9510	D2
L87	B2	2242	B4	2601	B2	3266	F2	3456	A2	3610	F1	4525	C4	6538	B2	7543	D2	9203	D4	9511	C2
SK1	G3	2250	F3	2603	C2	3267	F2	3457	A2	3611	F1	4526	E1	6542	C4	7550	D3	9204	G2	9513	D1
SK2	B3	2254	F2	2604	B2	3268	G2	3458	A1	3612	E1	4527	C1	6546	C2	7551	B4	9205	H1	9521	E1
0207	A4	2255	F3	2605	F1	3270	F2	3459	A1	3614	F1	4528	C2	6547	D3	7552	B4	9206	H1	9522	E1
0211	A3	2258	F3	2606	C3	3271	F2	3460	B1	3615	F1	4534	D3	6551	B4	7601	F1	9207	G1	9524	D1
039	H5	2259	F3	2607	B3	3272	F2	3461	A1	3616	F1	4536	D3	6601	E1	7602	F1	9216	G2	9530	B2
040	H4	2260	E3	2609	F1	3273	G2	3462	A1	3617	F1	4543	D4	6629	B2	7603	F1	9217	G2	9533	C2
1200	G3	2261	E3	2610	F1	3274	G1	3463	A1	3618	B2	4548	D1	7000	C5	7608	F1	9218	H1	9534	C2
2001	G1	2262	E3	2611	F1	3275	G2	3464	A1	3619	F1	4555	D3	7001	D5	7610	E1	9219	E3	9535	C3
2002	G1	2263	E2	2613	F1	3298	F5	3465	A2	3620	F1	6000	A5	7002	C5	7616	A1	9220	G4	9537	C3
2003	G1	2270	G1	2614	F1	3299	F5	3466	A1	3621	E1	6001	A5	7003	A5	7618	A2	9221	G3	9539	C3
2004	G1	2272	G2	2626	A2	3300	H5	3467	B2	3622	E1	6008	A3	7005	D5	9000	A4	9222	F3	9541	D2
2005	G1	2302	H5	3000	D4	3304	H5	3468	A1	3623	E1	6010	A5	7006	D5	9001	C5	9223	F4	9542	C2
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2015	A3	2372	H4	3013	D4	3314	H5	3482	F2	3632	C3	6212	F4	7216	G5	9020	D5	9234	F1	9552	F1
2016	A3	2374	H4	3014	D4	3317	H5	3483	B3	3633	A2	6213	F4	7241	B4	9022	A3	9235	E4	9556	C1
2018	A5	2376	H4	3016	B5	3320	H5	3484	B3	3634	A1	6216	F5	7242	B4	9023	A4	9236	F1	9557	E2
2019	A4	2380	E3	3019	B5	3321	H5	3485	E2	4000	A5	6220	G4	7246	E1	9024	A4	9237	F1	9560	D3
2020	A4	2381	E3	3020	B5	3322	H5	3490	B3	4001	D5	6221	G5	7250	F3	9025	A5	9238	G3	9561	D3
2021	A4	2382	E3	3021	B5	3331	H4	3500	B2	4002	B5	6230	E4	7251	F3	9026	A4	9239	B4	9562	C3
2022	A4	2386	E3	3022	B5	3332	H4	3501	B2	4003	A5	6231	E4	7268	F2	9027	A5	9240	B4	9563	C3
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2024	A3	2402	A2	3028	A5	3351	H4	3503	B1	4005	C5	6233	E4	7272	G2	9029	B5	9242	G2	9566	D3
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2028	B5	2406	B3	3032	D5	3360	H4	3507	D1	4011	B3	6247	B4	7311	H5	9034	C5	9250	F2	9615	B2
2029	B5	2407	B2	3033	D4	3362	H4	3508	C2	4012	A3	6251	F3	7312	H5	9035	A4	9251	F2		
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2035	C5	2415	A3	3041	A5	3370	H4	3515	C2	4411	B2	6302	H5	7370	H4	9042	C4	9402	B3		
2036	A4	2416	B3	3042	A5	3371	H4	3516	C2	4412	B2	6303	H5	7371	H4	9043	D5	9405	A1		
2037	A4	2417	B3	3043	C4	3372	H4	3517	C2	4413	B3	6304	H5								
2038	D4	2418	A3	3044	A5	3374	H4	3518	E2	4415	E2	6305	H5								
2039	A4	2419	A2	3049	G1	3375	H4	3519	E2	4416	B2	6306	F3								
2040	D5	2450	A1	3050	G1	3376	E3	3520	E2	4417	B2	6308	H5								
2041	D5	2451	B1	3051	G1	3378	H4	3521	E2	4420	A2	6312	H5								
2042	C5	2452	B1	3052	G1	3380	E3	3522	E2	4421	B2	6314	H5								
2043	C5	2454	A2	3053	G1	3381	E3	3524	D1	4465	A1	6315	H5								
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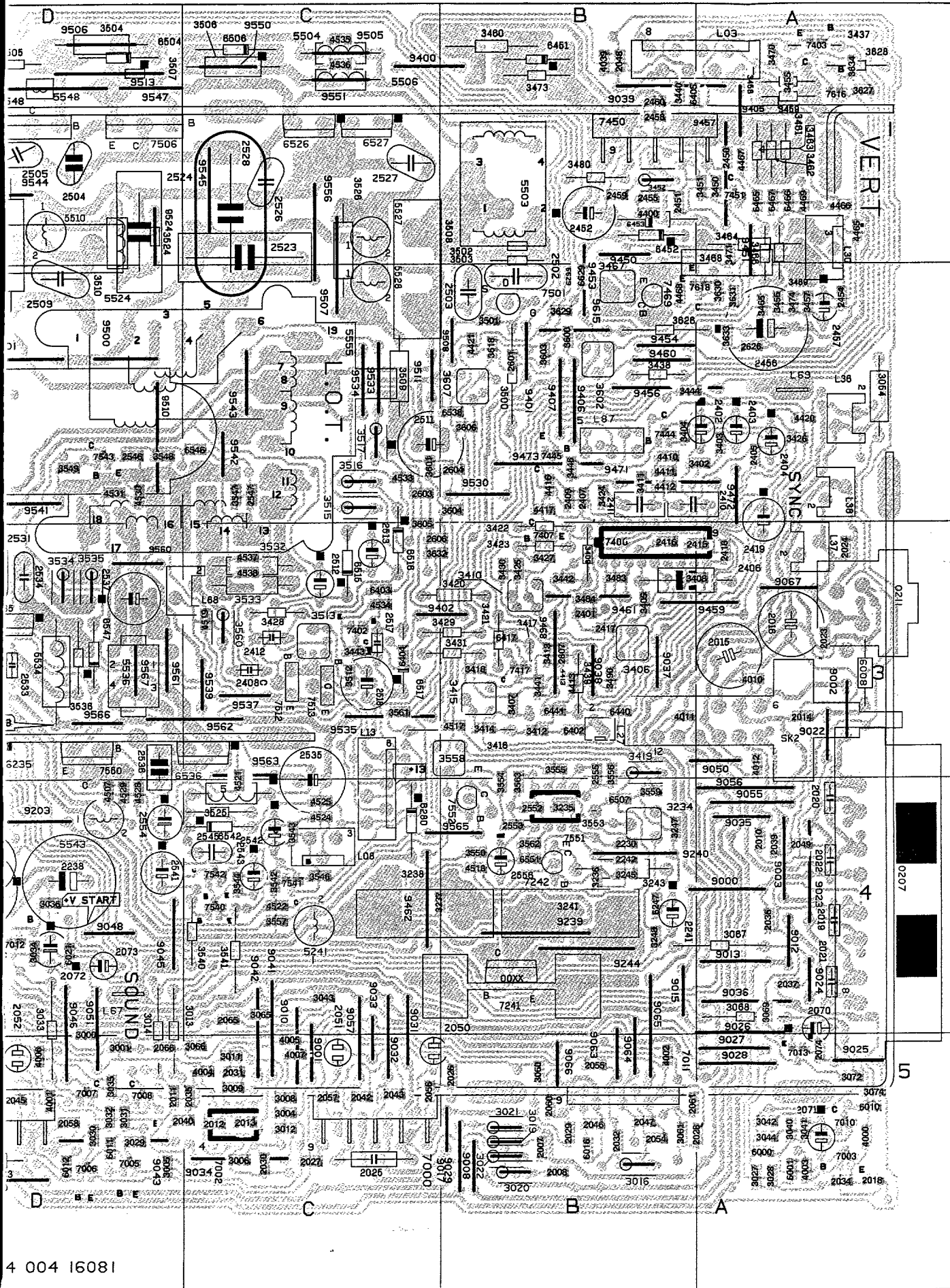


# Platine forts signaux FL X.16/17 /



8204 004 16081

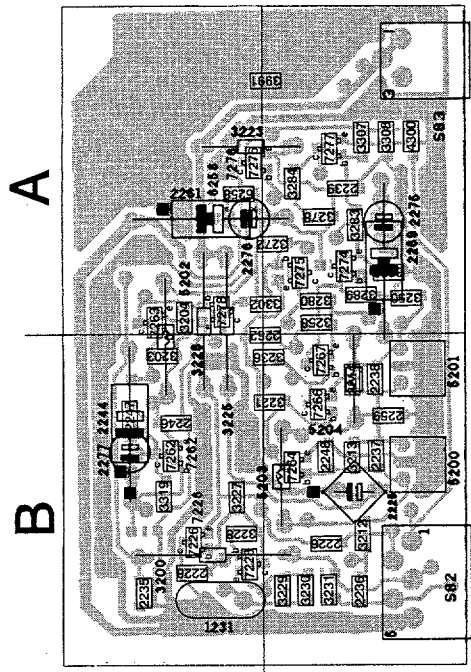
# Platine forts signaux FL X.16/17 /



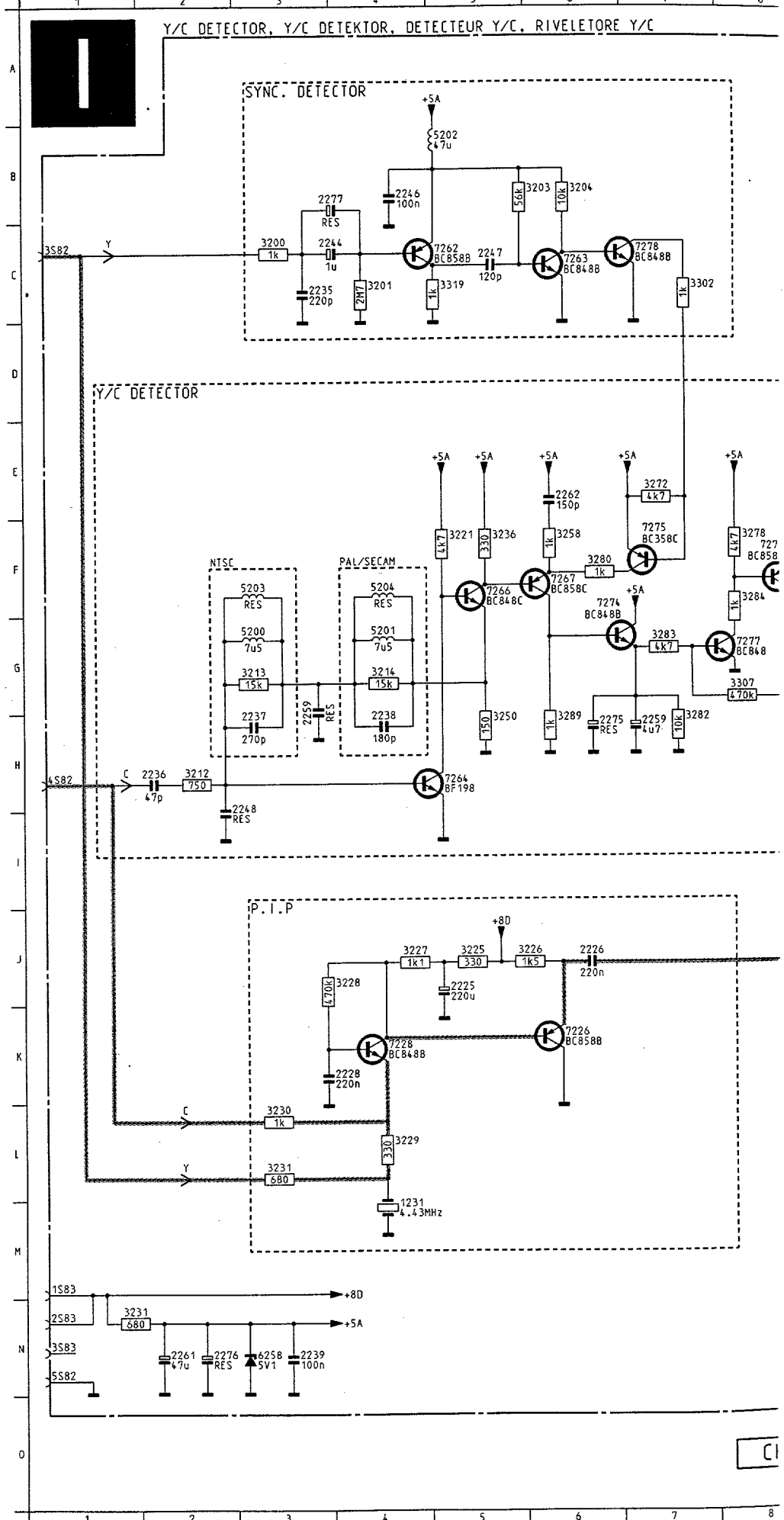
4 004 16081



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

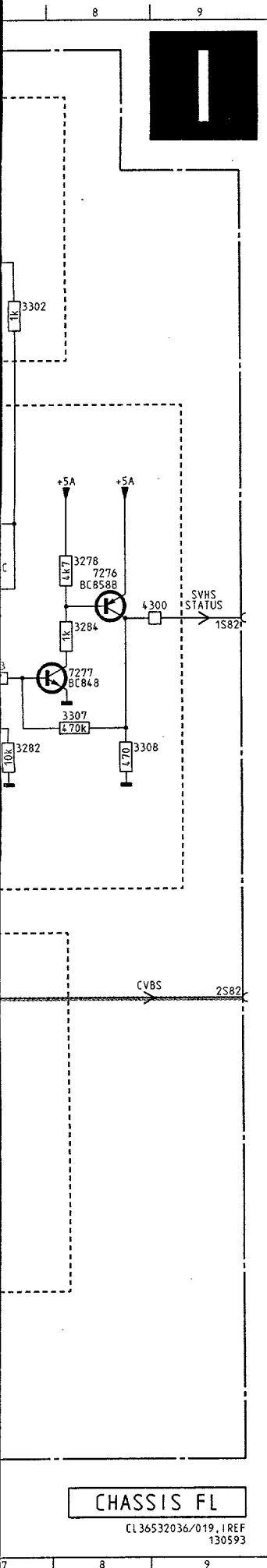


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2225 B2	2247 B1	3200 B1	3226 A1	3278 A2
2228 B2	2248 B2	3201 A1	3227 B1	3280 A2
2228 B1	2259 B2	3203 B1	3228 B1	3282 A2
2235 B1	2261 A1	3204 A1	3229 B2	3283 A2
2236 B2	2262 B2	3212 B2	3230 B2	3284 A2
2237 B2	2269 A2	3213 B2	3231 B2	3289 A2
2238 B2	2275 A2	3214 B2	3236 B2	3302 A2
3307 A2	6258 A1	7276 A1		
3308 A2	7226 B1	7277 A2		
3319 B1	7228 B1	7278 A1		
3951 A2	7262 B1			
4300 A2	7263 A1			
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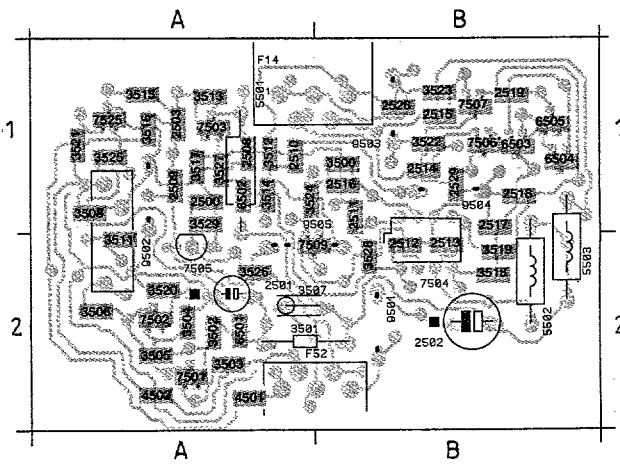
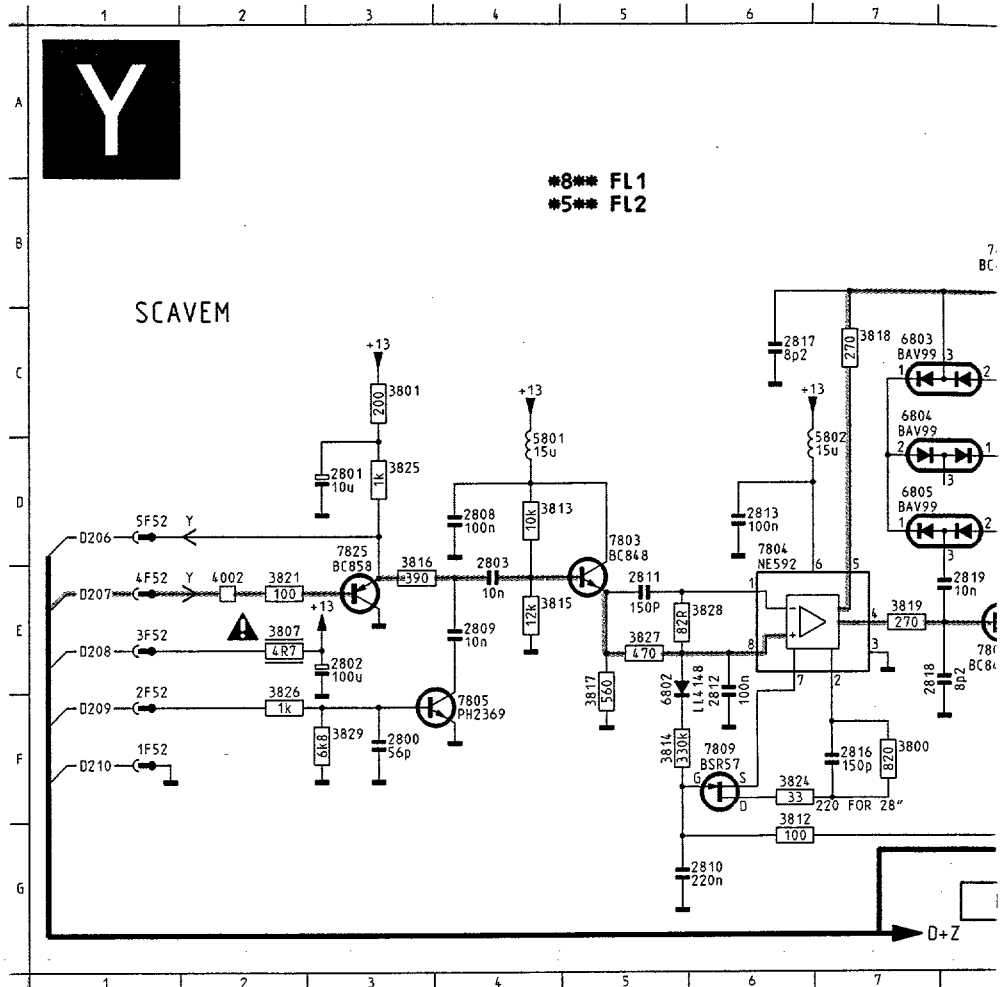


- C

# SCAVEM

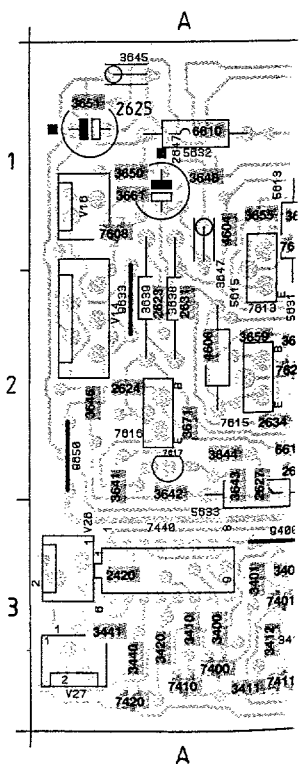


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2226	J 6
2228	K 3
2235	C 3
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2244	C 4
2246	B 4
2247	C 5
2248	I 2
2259	G 3
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2261	N 2
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2275	H 6
2276	N 2
2277	B 4
3200	C 3
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3231	L 3
3231	N 1
3236	F 5
3250	G 5
3258	F 6
3272	E 7
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3280	F 6
3282	G 7
3283	G 7
3284	F 8
3289	G 6
3302	C 7
3307	G 8
3308	G 8
3319	C 5
4300	F 9
5200	G 3
5201	G 4
5202	B 5
5203	F 3
5204	F 4
6258	N 3
7226	K 6
7228	K 4
7262	C 5
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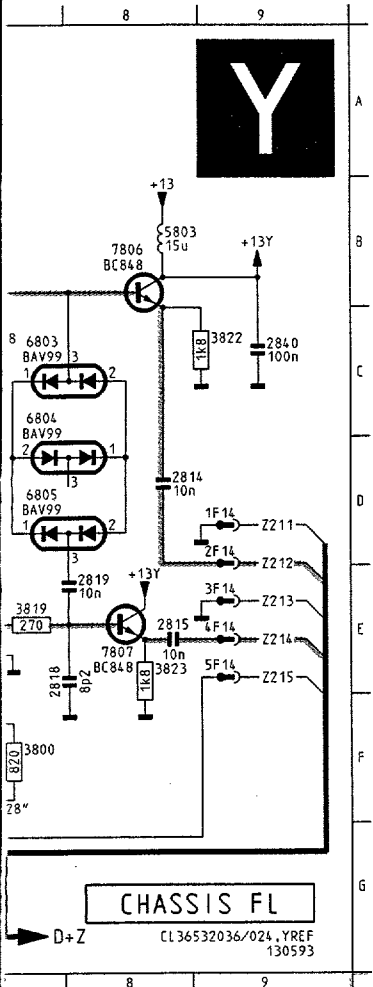


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2500	A1	2512	B2	2528	B1	3506	A2	3516	A1
2501	A2	2513	B2	2529	B1	3507	A2	3517	A1
2502	B2	2514	B1	3500	B1	3508	A1	3518	B2
2503	A1	2515	B1	3501	A2	3511	A1	3519	B2
2508	A1	2516	B1	3502	A2	3512	A1	3520	A2

V2	B3	2630	B1	3424	B3	3638	A2	3671	A2	7410	A3	7620	B2
V14	A2	2631	A2	3425	B3	3639	A2	4600	B2	7411	A3	7621	A2
V15	B2	2632	B1	3426	B3	3641	A2	4603	B1	7420	A3	9400	A3
V16	A1	2633	B1	3430	B3	3642	A2	4604	A1	7421	B3	9401	B3
V26	A3	2634	A2	3431	B3	3643	A2	4605	B2	7423	B3	9615	B1
V27	A3	2635	A2	3432	B3	3644	A2	4606	A2	7425	B3	9633	A2
V90	B2	2636	B1	3433	B3	3645	A1	4612	A2	7430	B3	9640	B2
2420	A3	2637	A2	3434	B3	3646	A2	5612	B1	7431	B3	9650	A2
2490	B3	2647	A1	3435	B3	3647	A1	5613	A1	7433	B3	9651	B1
2491	B3	2671	B2	3440	A3	3648	A1	5614	B2	7435	B3		
2604	B2	2672	B2	3441	A3	3650	A1	5615	A2	7440	A3		
2605	B1	3400	A3	3490	B3	3651	A1	5630	B2	7608	A1		
2606	B2	3401	A3	3491	B3	3652	B1	5631	B2	7610	B1		
2607	B2	3402	A3	3609	B2	3653	B1	5632	A1	7611	B1		
2620	B1	3410	A3	3610	B2	3654	A1	5633	A2	7612	B2		
2621	B1	3411	A3	3630	B1	3655	A1	6426	B3	7613	A2		
2622	B2	3412	A3	3631	B1	3656	B2	6427	B3	7614	B2		
2623	A2	3413	A3	3633	B1	3657	B2	6490	B3	7615	A2		
2624	A2	3420	A3	3634	B1	3658	A2	6610	A1	7616	A2		
2625	A1	3421	A3	3635	B1	3659	A2	6616	A2	7617	A2		
2626	B1	3422	A3	3636	B1	3661	A1	7400	A3	7618	B1		
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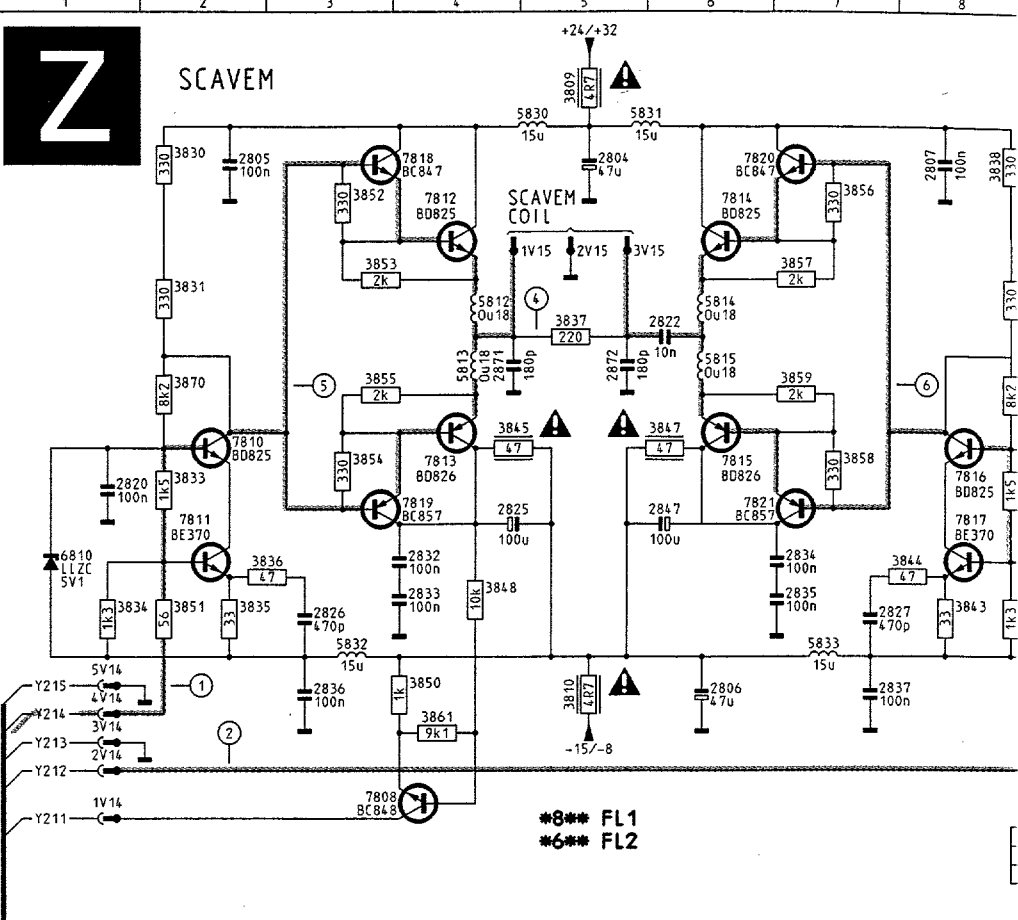


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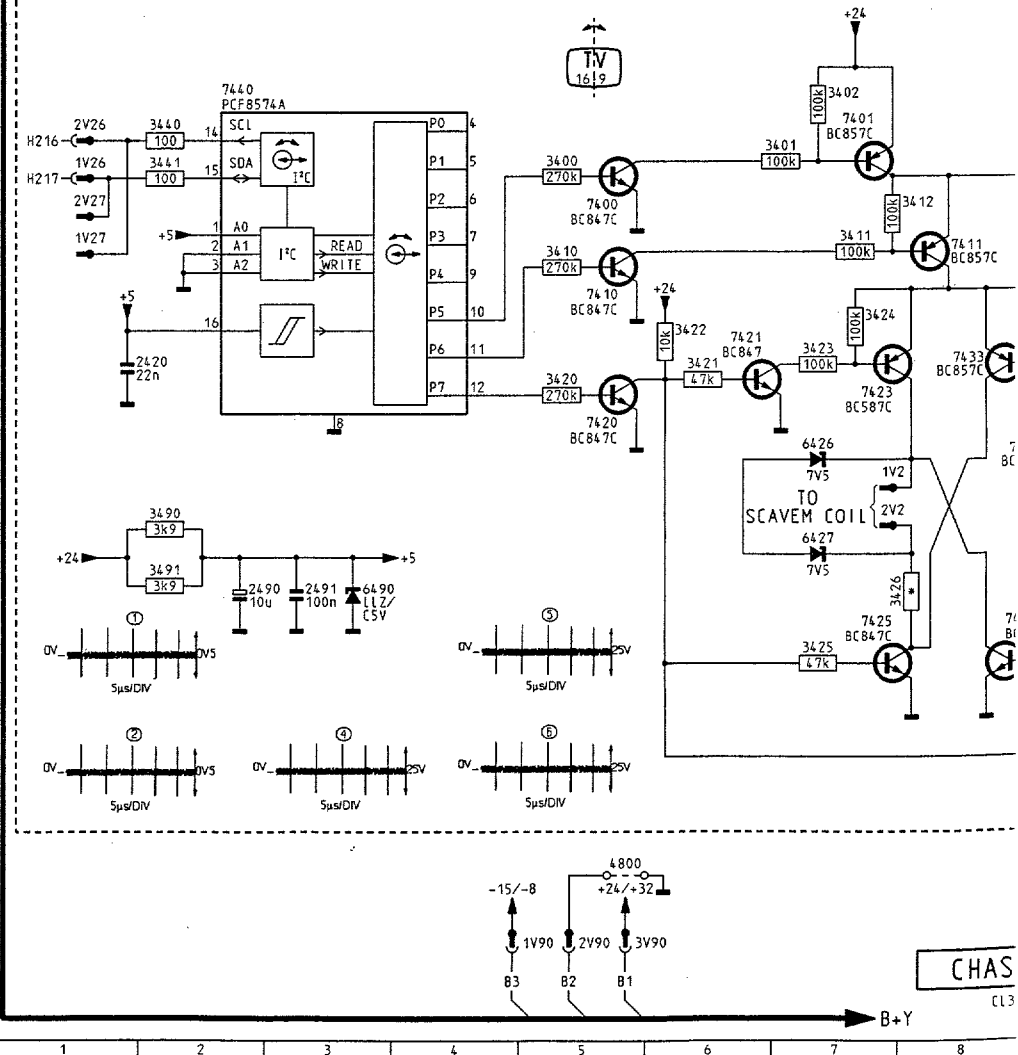
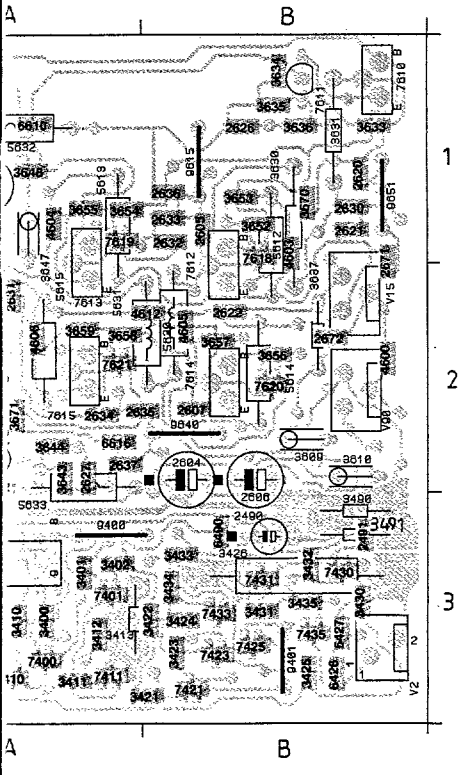


- 2800 F 3
- 2801 D 3
- 2802 E 3
- 2803 E 4
- 2808 D 4
- 2809 E 4
- 2810 G 5
- 2811 E 5
- 2812 E 6
- 2813 D 6
- 2814 D 8
- 2815 E 8
- 2816 F 7
- 2817 C 6
- 2818 E 7
- 2819 E 8
- 2840 C 9
- 3800 F 7
- 3801 C 3
- 3807 E 2
- 3812 G 6
- 3813 D 4
- 3814 F 5
- 3815 E 4
- 3816 E 3
- 3817 E 5
- 3818 C 7
- 3819 E 7
- 3821 E 2
- 3822 C 9
- 3823 E 8
- 3824 F 6
- 3825 D 3
- 3826 F 2
- 3827 E 5
- 3828 E 5
- 3829 F 2
- 4002 E 3
- 5801 D 4
- 5802 D 6
- 5803 B 8
- 6802 C 5
- 6803 C 7
- 6804 C 7
- 6805 D 7
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- 7807 E 8
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- 7825 D 3

**Z**

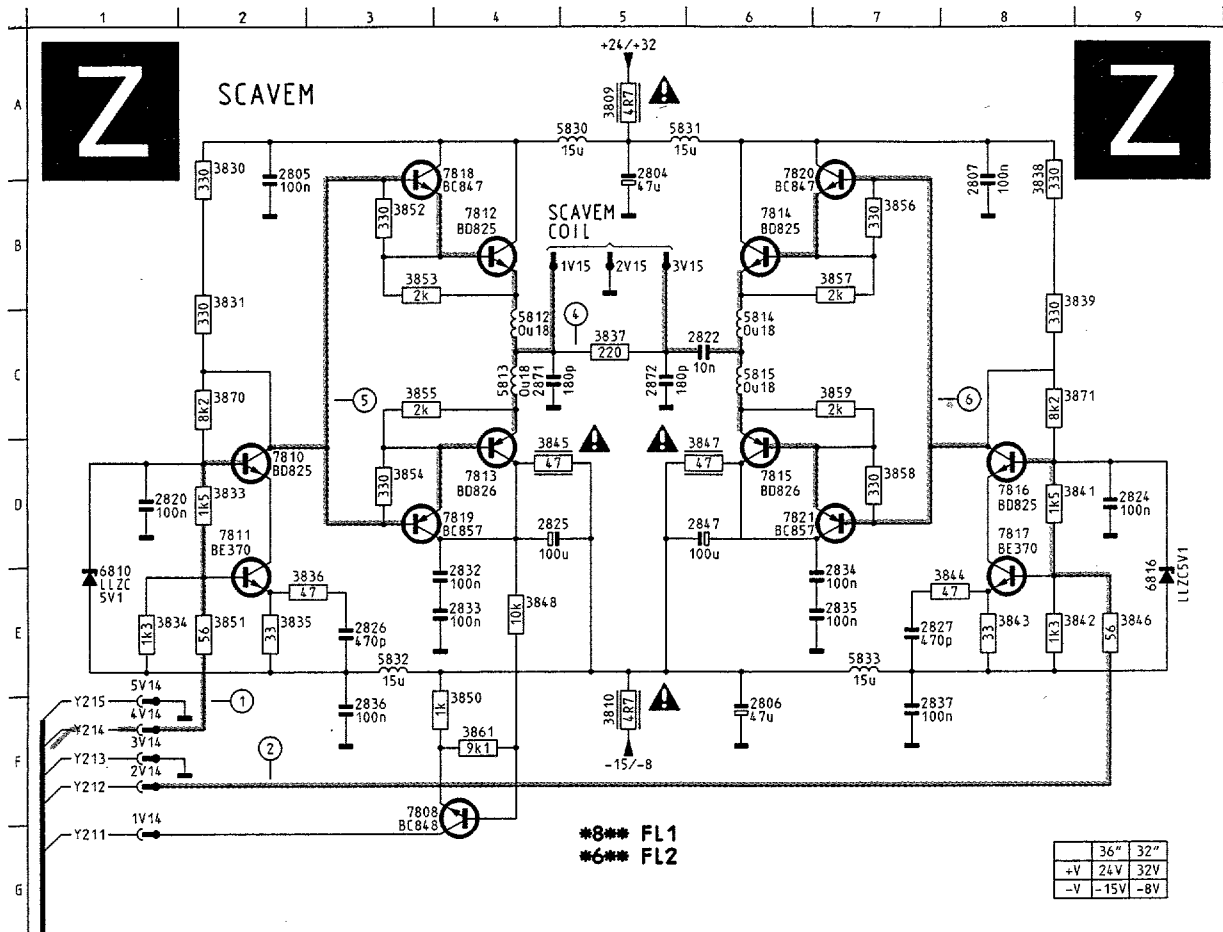


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A2	3516	A1	3524	A1	9501	B2	5502	B2	7502	A2
A2	3517	A1	3525	A1	9502	A1	5503	B2	7503	A1
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A1	3519	B2	3527	A1	9504	B1	6502	A1	7505	A2
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			3529	A1						



# SCAVEM

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 2803 E 4  
 2808 D 4  
 2809 E 4  
 2810 G 5  
 2811 E 5  
 2812 E 6  
 2813 D 6  
 2814 D 8  
 2815 E 8  
 2816 F 7  
 2817 C 6  
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 3807 E 2  
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 3821 E 2  
 3822 C 9  
 3823 E 8  
 3824 F 6  
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 3827 E 5  
 3828 E 5  
 3829 F 3  
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 5803 B 8  
 6802 E 5  
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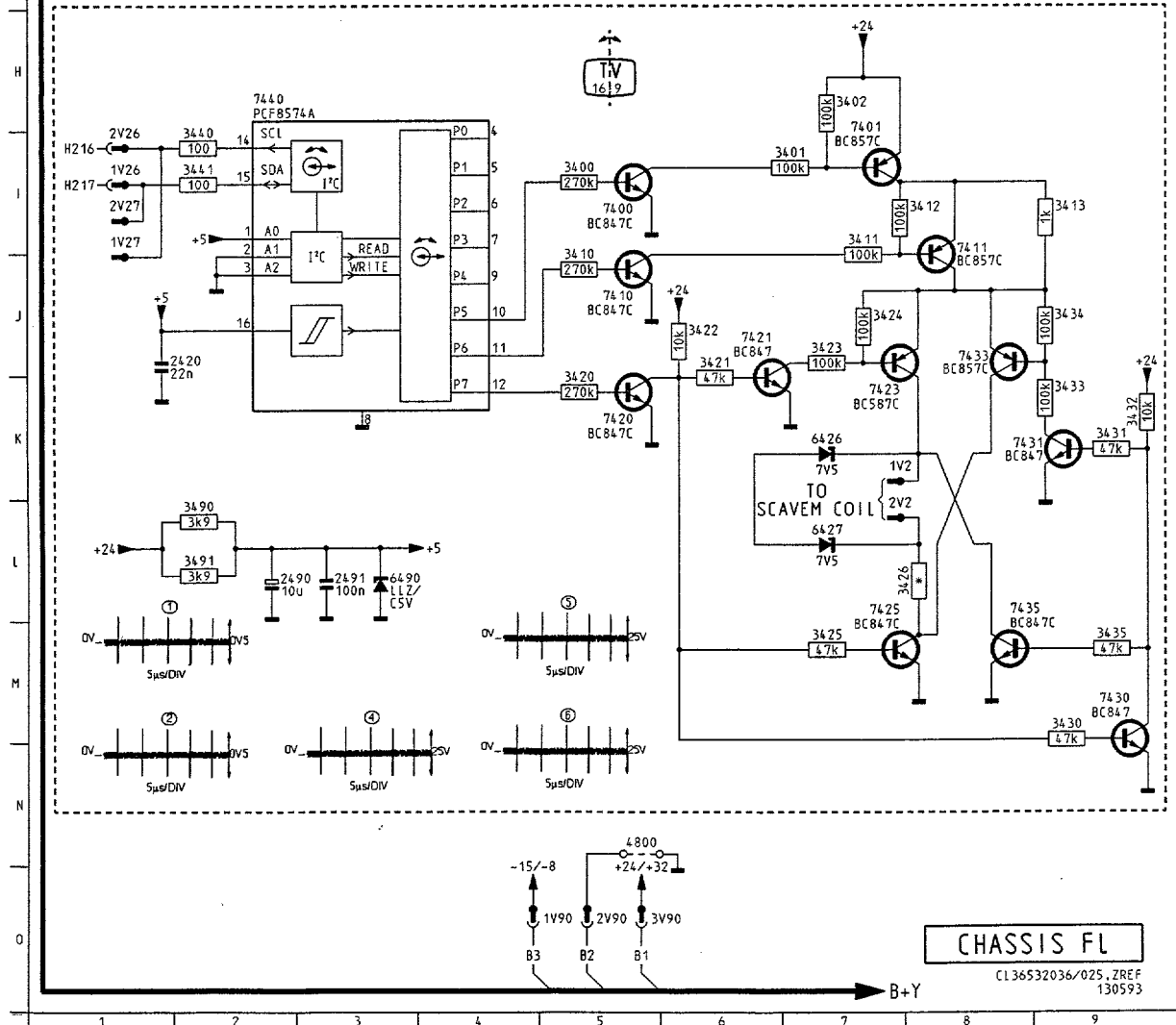


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 2836 F 3  
 2837 F 7  
 2847 D 6  
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 2872 C 5  
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 3401 I 6  
 3402 H 7  
 3410 J 5  
 3411 I 7  
 3412 I 7  
 3413 I 9  
 3420 K 5  
 3421 J 6  
 3422 J 6  
 3423 J 7  
 3424 J 7  
 3425 M 7  
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 3431 K 9  
 3432 K 9  
 3434 J 9  
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 3440 I 1  
 3441 I 1  
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 3491 L 2  
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 7431 K 9  
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 7811 D 2  
 7812 B 4  
 7813 D 4  
 7814 B 6  
 7815 D 6  
 7816 D 8  
 7817 D 8  
 7818 B 4  
 7819 D 4

\*8\*\* FL1  
 \*6\*\* FL2

	36"	32"
+V	24V	32V
-V	-15V	-8V

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 6505 B1  
 7501 A2  
 7502 A2  
 7503 A1  
 7504 B2  
 7505 A2  
 7506 B1



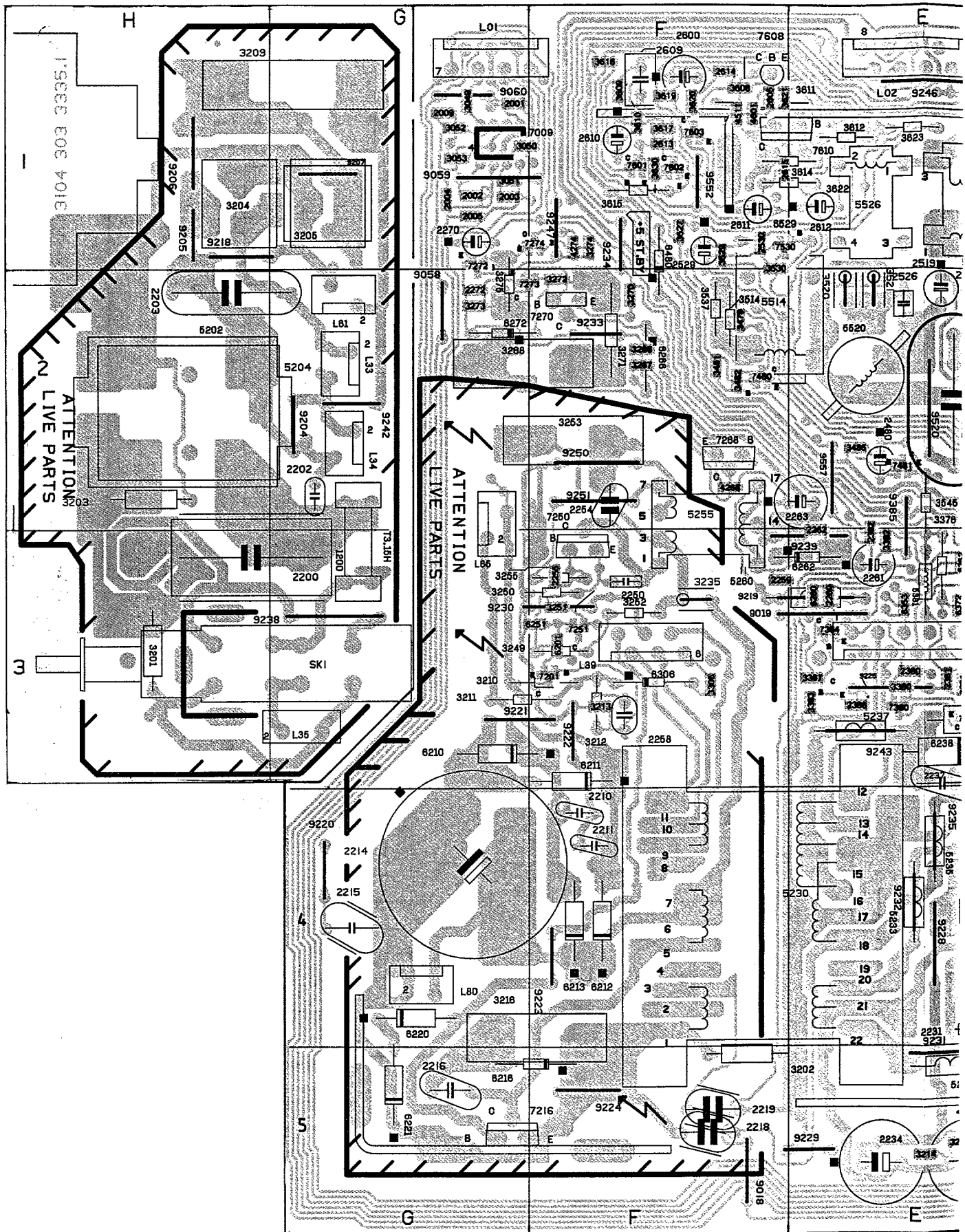
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CHASSIS FL

CI 36532036/025\_ZREF  
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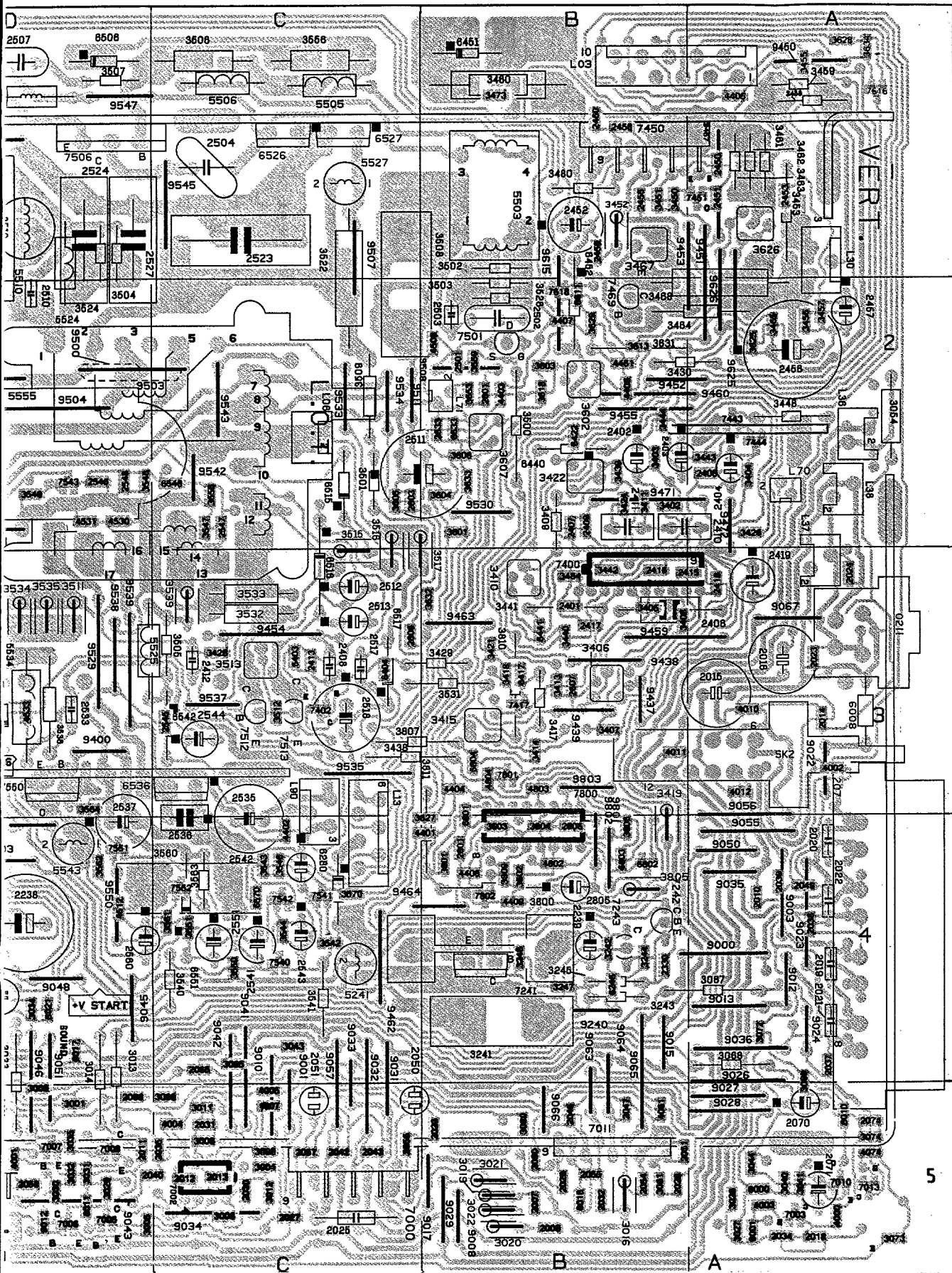
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L02	E1	2210	F4	2530	F1	3238	D3	3440	B3	3601	B2	5506	C1	6633	B2	7384	E3	9019	E3	9207	G1	9462	C4
L03	A1	2211	F4	2531	D3	3239	D3	3441	B3	3602	B2	5507	D1	6801	B3	7400	B3	9020	D5	9218	H1	9463	B3
L06	C2	2214	G4	2533	D3	3240	E3	3442	B3	3603	B2	5510	D1	6802	B4	7402	C3	9022	A3	9219	E3	9464	B4
L13	C4	2215	G4	2534	D3	3241	B4	3443	A2	3604	B2	5511	D3	6803	B4	7417	B3	9023	A4	9220	G4	9471	B2
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L32	E2	2218	F5	2536	C4	3243	B4	3448	A2	3606	B2	5520	E2	7000	C5	7444	A2	9026	A4	9222	F3	9500	D2
L33	G2	2219	F5	2537	D4	3244	B4	3450	B1	3607	B2	5521	E1	7001	D5	7450	A1	9027	A5	9223	F4	9501	D2
L34	G2	2231	E4	2541	C4	3245	B4	3451	B1	3608	F1	5524	D1	7002	C5	7451	A1	9028	A5	9224	F5	9502	D2
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L39	F3	2237	E3	2546	D2	3250	F3	3457	A2	3613	B2	5543	D4	7008	D5	7506	D1	9034	C5	9231	E5	9511	C2
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L70	A2	2250	F3	2560	D4	3255	F3	3461	A1	3617	F1	6008	A3	7012	D4	7540	C4	9042	C4	9235	E4	9529	D3
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L90	C3	2258	F3	2603	C2	3268	G2	3464	A2	3620	F1	6012	D5	7216	G5	7543	D2	9046	D4	9240	B4	9534	G2
SK1	G3	2259	F3	2605	F1	3270	F2	3465	A2	3621	F1	6016	B5	7241	B4	7550	D3	9047	E5	9241	E3	9535	C3
SK2	B3	2260	E3	2606	C3	3271	F2	3467	B1	3622	E1	6017	D4	7241	C4	7551	D4	9048	D4	9242	G2	9537	C3
0211	A3	2261	E3	2607	B3	3272	F2	3468	A2	3623	E1	6021	D4	7242	B4	7552	C4	9050	A4	9243	E3	9538	D3
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2001	G1	2272	G2	2612	E1	3298	F5	3481	F2	3628	A1	6212	F4	7251	F3	7608	F1	9054	D4	9251	F2	9542	C2
2002	G1	2302	H5	2613	F1	3299	F5	3482	F2	3629	B2	6213	F4	7268	F2	7610	E1	9055	A4	9300	H5	9543	C2
2003	G1	2303	H5	2614	F1	3300	H5	3484	B3	3630	F1	6216	F5	7270	F2	7616	A1	9056	A3	9302	H4	9544	D1
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2007	B5	2330	B4	2801	B4	3306	F3	3501	C2	3633	B2	6230	E4	7274	F1	7801	B3	9059	G1	9437	B3	9549	E1
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2009	G1	2351	H4	2806	B4	3309	H5	3503	B2	3653	B2	6235	D3	7311	H5	9000	A4	9063	B5	9439	B3	9552	F1
2010	A4	2360	H4	3000	D5	3310	H5	3504	D1	3800	B4	6237	E3	7312	H5	9001	C5	9064	B5	9450	A1	9557	E2
2011	D5	2361	H4	3001	D5	3311	H5	3505	C3	3801	B4	6238	E3	7318	H5	9003	A4	9065	B4	9451	A2	9614	E2
2012	C5	2365	H4	3004	C5	3312	H5	3506	C1	3802	B4	6246	B4	7320	H4	9008	B5	9066	B5	9452	B2	9615	B2
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2014	A3	2374	H4	3006	C5	3314	H5	3508	C2	3804	B4	6260	E3	7369	H4	9012	A4	9202	D3	9454	C3	9626	A2
2015	A3	2376	H4	3008	C5	3317	H5	3509	C2	3805	B4	6262	E3	7370	H4	9013	A4	9203	D4	9455	B2	9801	B4
2016	A3	2380	E3	3009	C5	3320	H5	3510	D1	3806	B4	6266	F2	7371	H4	9015	B4	9204	G2	9457	A1	9802	B4
2018	A5	2381	E3	3011	C5	3321	H5	3511	D3	3807	C3	6272	G2	7380	E3	9017	B5	9205	H1	9459	B3	9803	B3
2019	A4	2382	E3	3012	C5	3322	H5	3512	C3	3809	B4	6280	C4										
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2032	B5	2412	C3	3032	D5	3366	H4	3525	E2	4012	A3	6349	H4										
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2049	A4	2460	B1	3060	B5	3403</																	

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



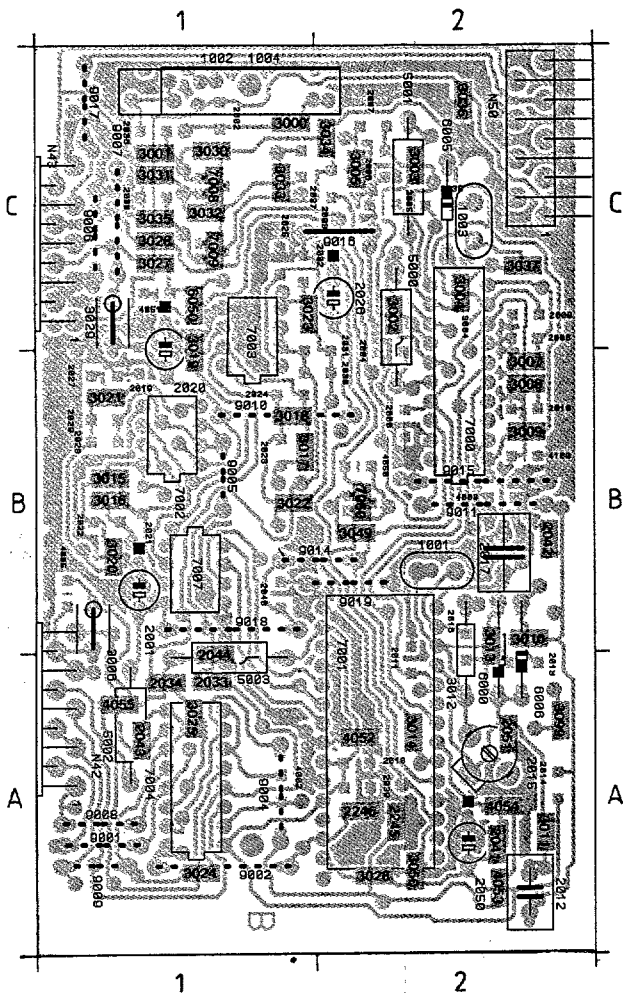


# Platine forts signaux FL X.14 /

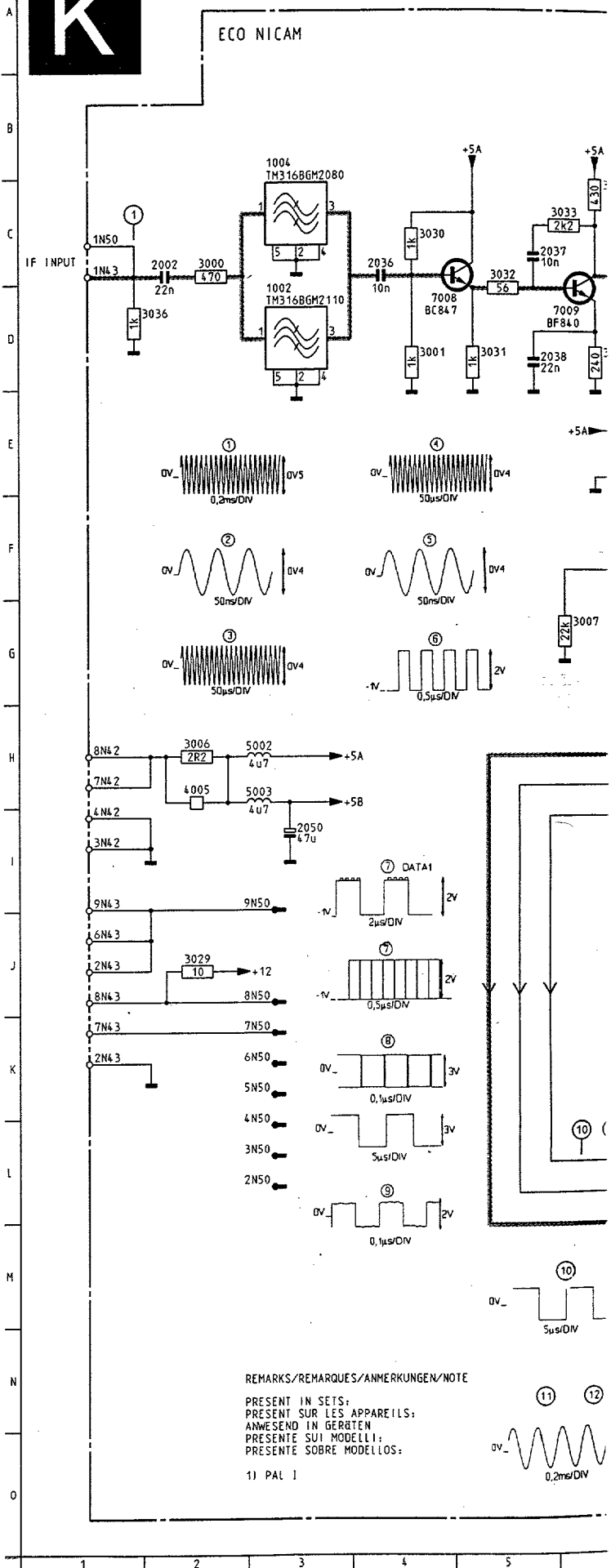
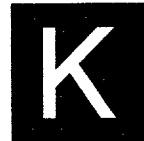




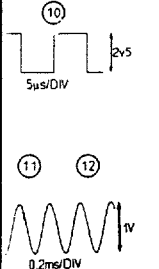
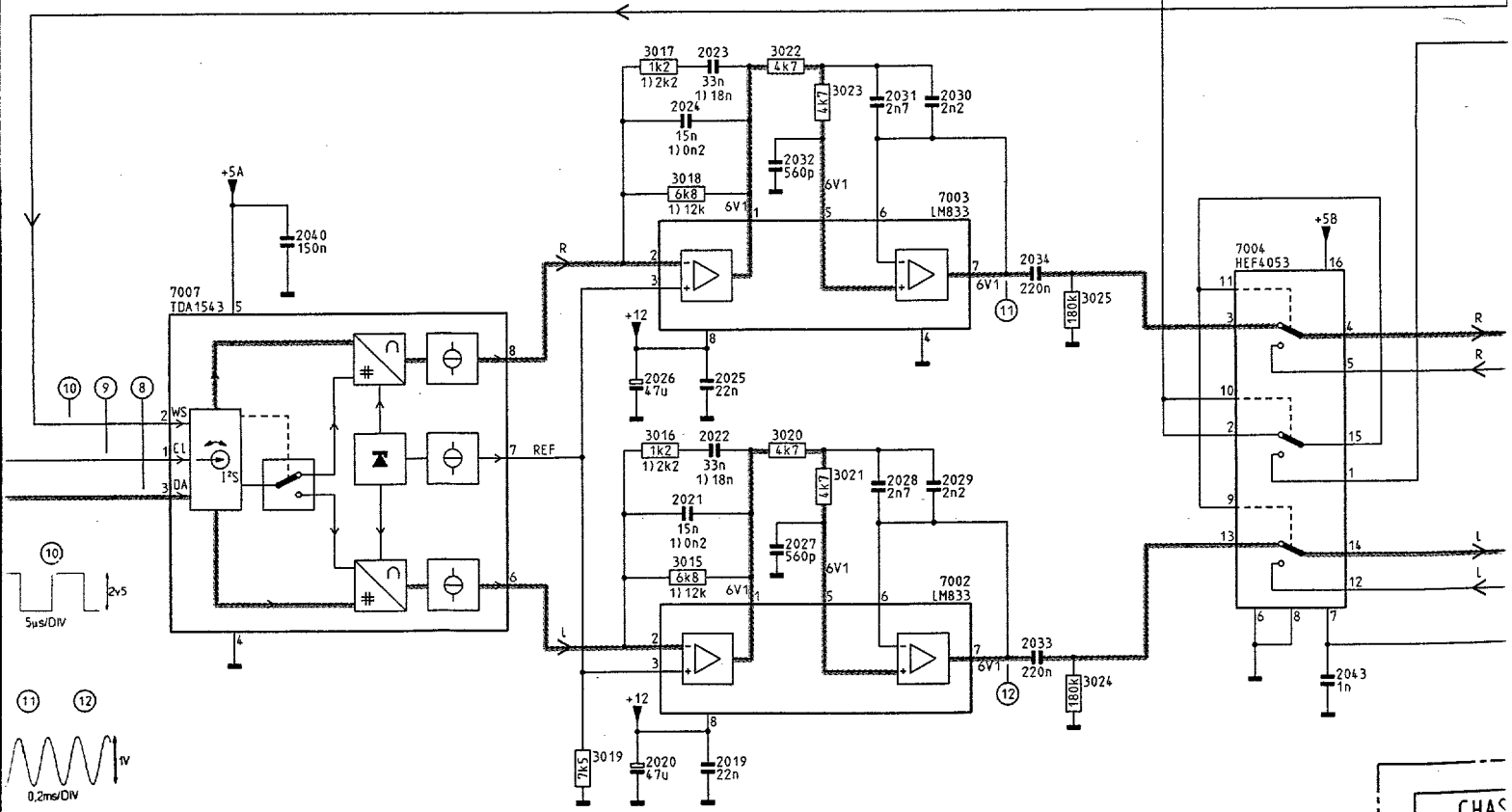
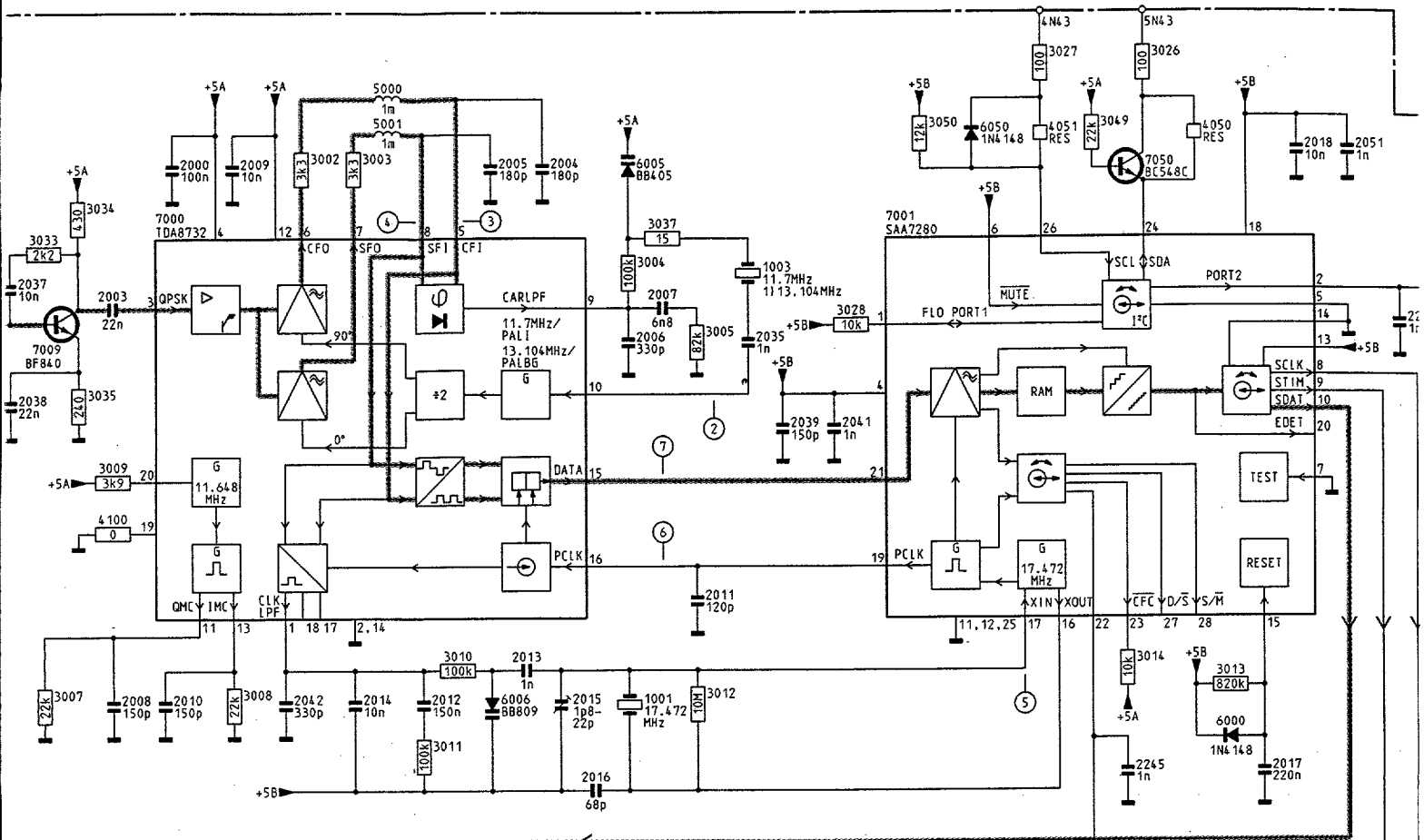
# ECO NICAM



N42	A1	2018	A2	2043	A1	3019	B1	4050	B2	9002	A1
N43	C1	2019	B1	2044	A1	3020	B1	4051	C1	9004	A1
N50	C2	2020	B1	2050	A2	3021	B1	4052	A2	9005	B1
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
2000	B2	2025	C1	3001	C1	3026	C1	5000	C2	9010	B1
2001	B1	2026	C2	3002	C2	3027	C1	5001	C2	9011	B2
2002	C1	2027	B1	3003	C2	3028	A2	5002	A1	9014	B2
2003	C2	2028	B1	3004	C2	3029	C1	5003	A1	9015	B2
2004	B2	2029	B1	3005	C2	3030	C1	6000	A2	9016	C2
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		
2009	C2	2034	A1	3010	A2	3035	C1	7001	A2		
2010	B2	2035	C2	3011	A2	3036	C2	7002	B1		
2011	A2	2036	C1	3012	A2	3037	C2	7003	B1		
2012	A2	2037	C1	3013	A2	3049	B2	7004	A1		
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		
2016	A2	2041	A2	3017	B1	4003	B2	7050	B2		
2017	B2	2042	B2	3018	B1	4005	B1	9001	A1		



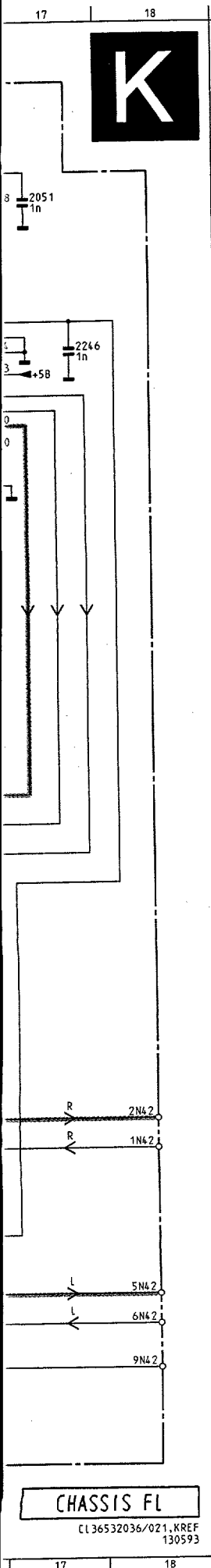
REMARKS/REMARQUES/ANMERKUNGEN/NOTE  
 PRESENT IN SETS;  
 PRESENT SUR LES APPAREILS;  
 ANWESEND IN GERÄTEN;  
 PRESENTE SUI MODELLI;  
 PRESENTE SOBRE MODELLOS:  
 1) PAL 1



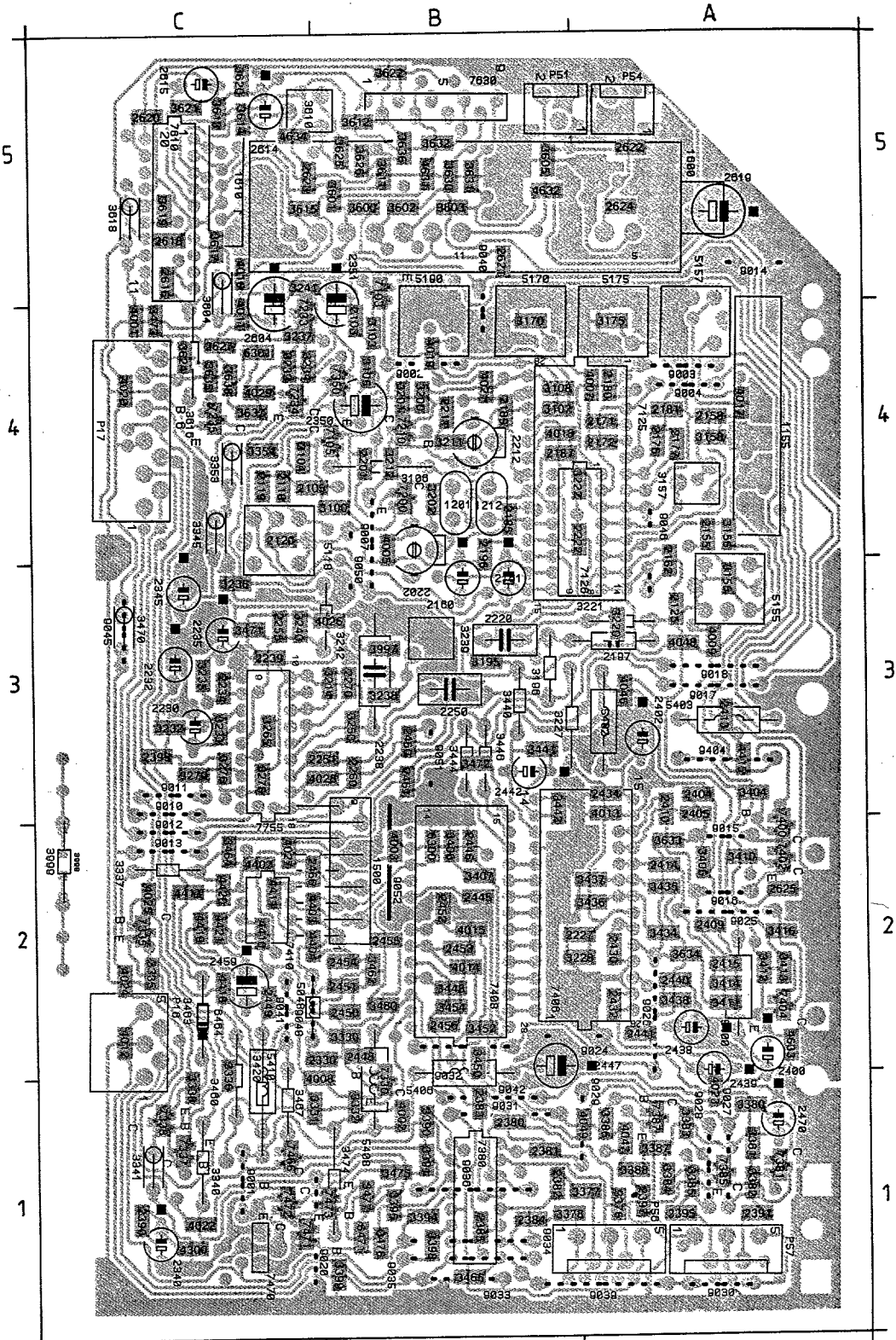
CHAS  
CL:

# PIP panel

# K



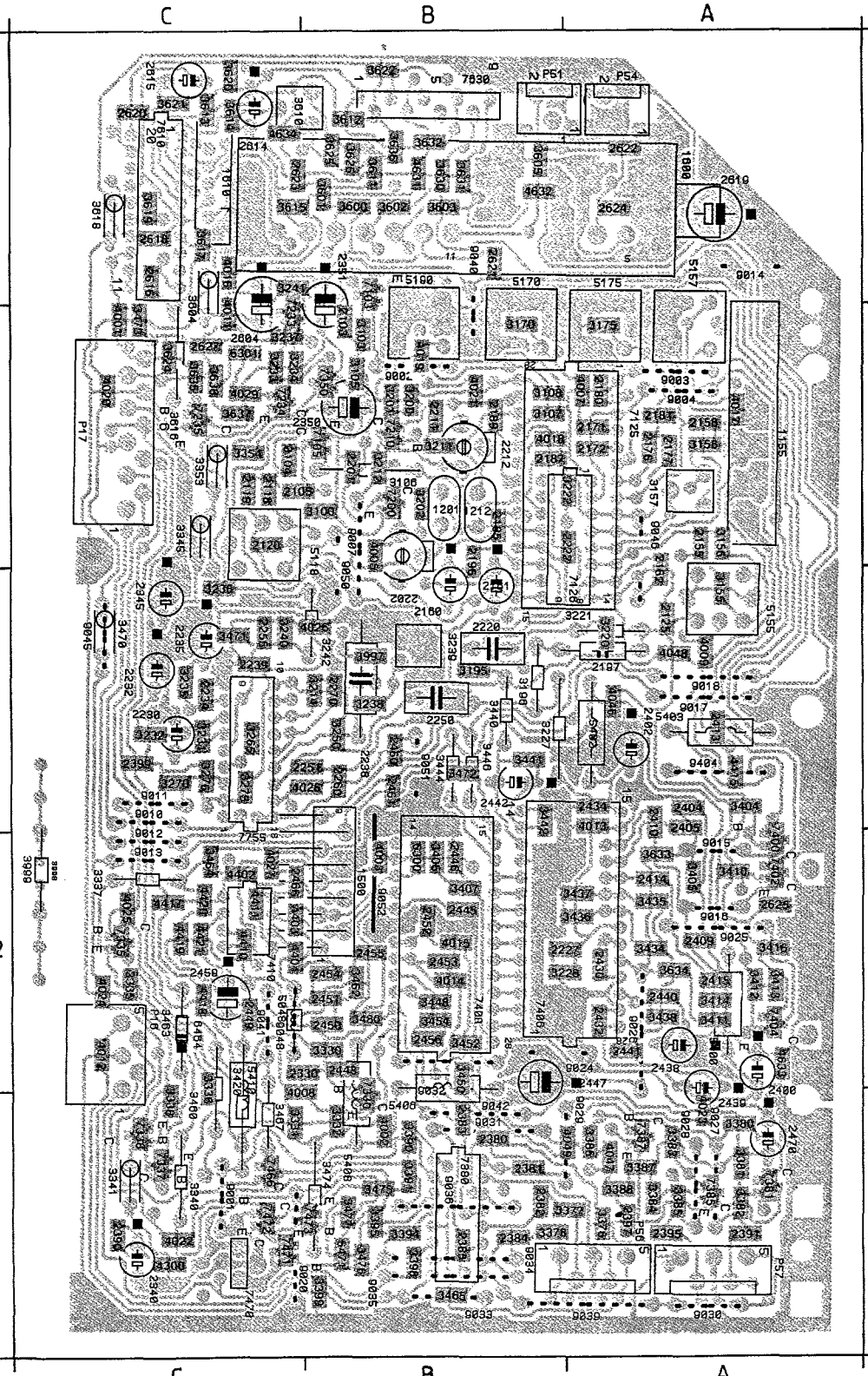
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- 1003 C12
- 1004 B 3
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- 2008 G 6
- 2009 B 7
- 2010 G 7
- 2011 F11
- 2012 G 9
- 2013 F10
- 2014 G 8
- 2015 G10
- 2016 G10
- 2017 G16
- 2018 B16
- 2019 O11
- 2020 O10
- 2021 M11
- 2022 L11
- 2023 I11
- 2024 I11
- 2025 L11
- 2026 L10
- 2027 M12
- 2028 L12
- 2029 L13
- 2030 I13
- 2031 I12
- 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 I12
- 3023 I12
- 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 5
- 7008 O 7
- 7009 O 6
- 7050 B15



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	2345	C3	2404	A3	2446	B2	2604	C4	3105	B4	3212	B4	3240	C3
		1201	B4	2171	A4	2350	B4	2405	A2	2447	B2	2614	C5	3106	B4	3214	B3	3241	C5
		1212	B4	2172	A4	2351	B4	2409	A2	2448	B2	2615	C5	3107	B4	3220	A3	3242	B3
		1500	B2	2176	A4	2380	C3	2410	A3	2449	C2	2616	C5	3108	B4	3221	A3	3250	B3
		1600	B5	2177	A4	2381	B1	2413	A3	2450	B2	2618	C5	3155	A3	3222	B4	3265	C3
		1610	C5	2180	A4	2382	C3	2414	A2	2451	B2	2619	A5	3156	A4	3227	B3	3270	C3
		2103	B4	2181	A4	2383	C3	2415	A2	2452	B2	2620	C5	3157	A4	3228	B2	3275	C3
		2105	C4	2185	B4	2384	B1	2430	A2	2453	B2	2621	B5	3158	A4	3231	C3	3276	C3
		2118	C4	2187	B4	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	3331	C1

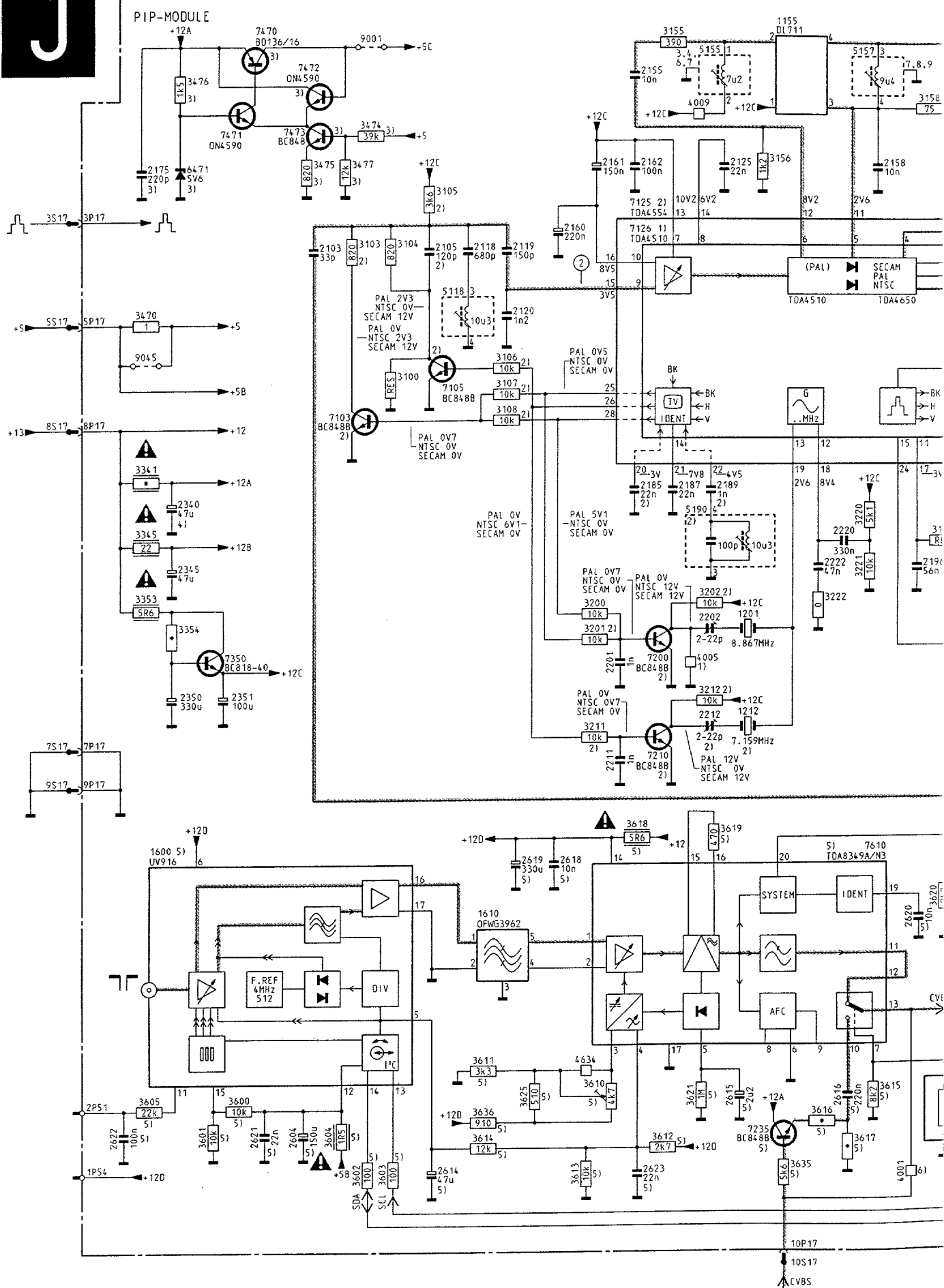
PIP panel

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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 L11  
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 O17  
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  
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3012 G11  
3013 G16  
3014 F15  
3015 M11  
3016 L10  
3017 I10  
3018 J11  
3019 O10  
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3023 L12  
3024 N14  
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3028 C13  
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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  
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7007 K 7  
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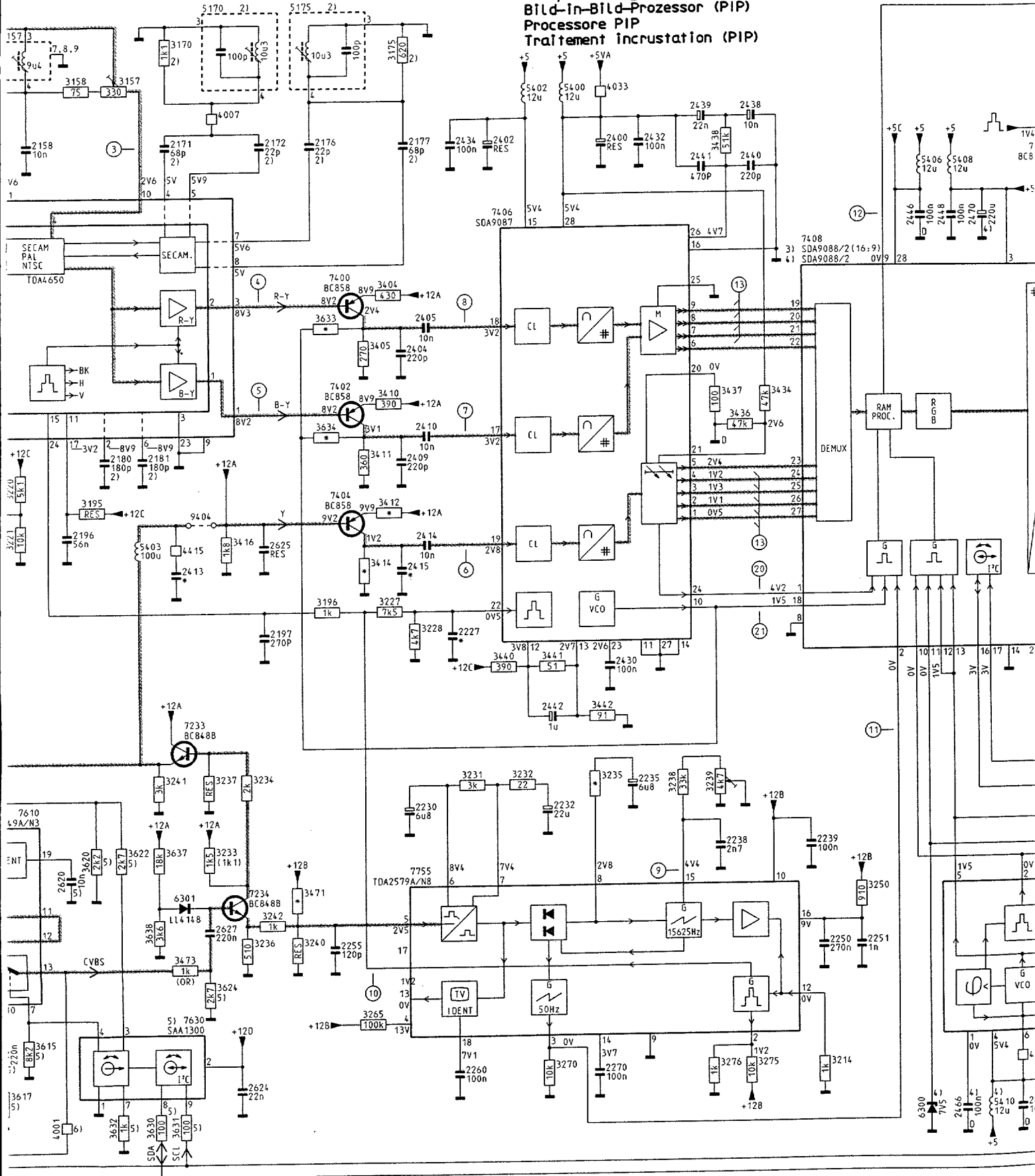


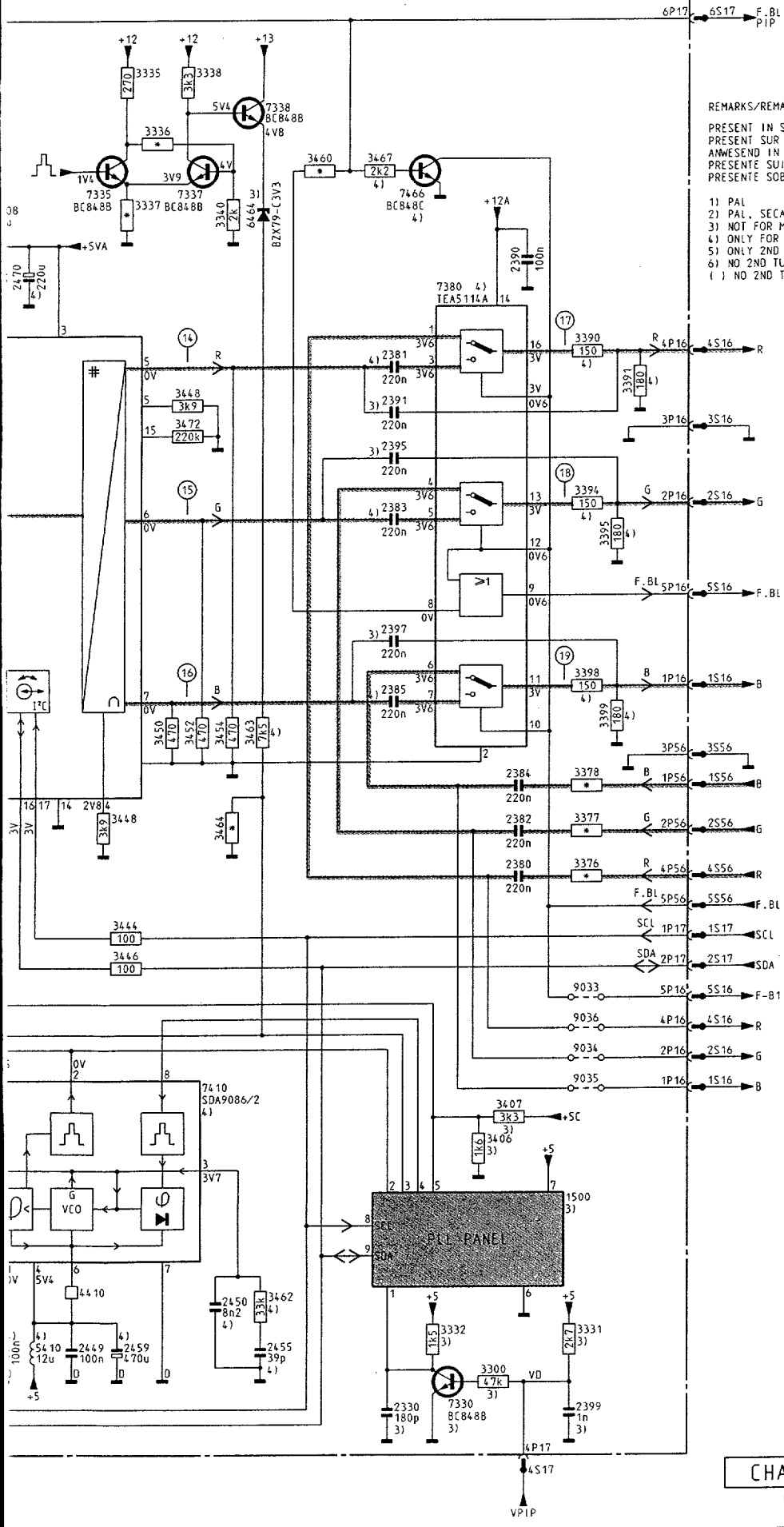
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3338 C1	4001 C4	9001 C1
3340 C1	4002 B1	9002 B4
3341 C1	4003 B2	9003 A4
3345 C4	4005 B4	9004 A4
3353 C4	4007 A4	9007 B4
3354 C4	4008 C1	9010 C2
3376 A1	4009 A3	9011 C3
3377 A1	4011 C4	9012 C2
3378 B1	4012 C2	9013 C2
3380 A1	4013 A3	9014 A5
3381 A1	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	
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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 A1	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
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2103 B4	2181 A4	2235 C3	2383 B1	2415 A2	2452 B2	2620 C5	3157 A4	3228 B2	3275 C3
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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)





REMARKS/REMARQUES/ANMERKUNGEN/NOTE

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

1) PAL  
 2) PAL, SECAM, NTSC  
 3) NOT FOR MULTI PIP  
 4) ONLY FOR MULTI PIP  
 5) ONLY 2ND TUNER  
 6) NO 2ND TUNER  
 ( ) NO 2ND TUNER

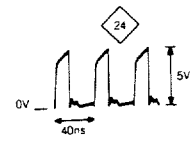
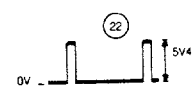
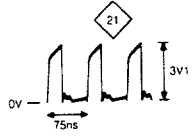
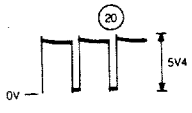
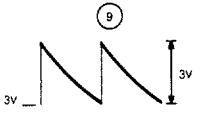
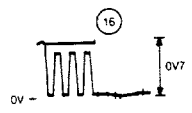
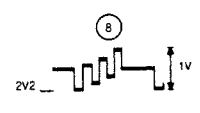
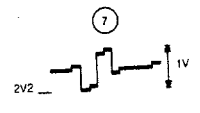
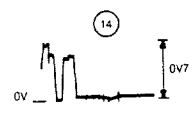
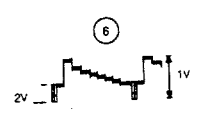
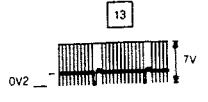
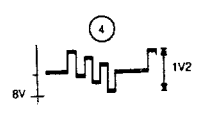
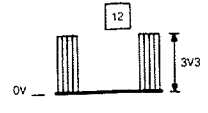
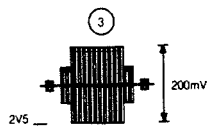
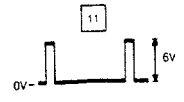
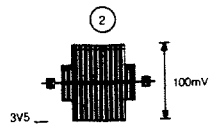
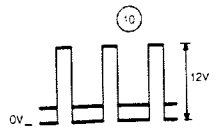
* MULTI PIP	PIP
2227	330p
2413	18p
2415	820p
3235	1k2
3336	4k7
3337	1k2
3341	22
3354	270
3376	1k
3377	1k
3378	1k
3412	390
3414	100
3460	470
3464	4k7
3471	10k
3516	750
3617	750
3633	100k
3634	100k
220p	100p
220p	2k0
2k0	6k8
1k0	1k0
12	330
0	0
0	0
750	750
180	180
120k	120k
120k	120k

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	5403	G12
2161	C 7	3236	L13	5406	C21
2162	C 8	3237	J13	5408	C21
2171	C12	3238	J18	5410	N22
2172	C13	3239	J19	6300	N21
2175	C 2	3240	L14	6301	K12
2176	C14	3241	J12	6464	C24
2177	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 9	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	J18	3354	H 2	7402	E14
2238	K19	3376	I27	7404	G14
2239	K20	3377	I27	7406	C16
2250	L20	3378	H27	7408	D20
2251	L20	3390	D27	7410	K23
2255	L14	3391	D28	7466	C26
2260	M16	3394	F27	7470	A 3
2270	M17	3395	F27	7471	B 3
2330	O25	3398	F27	7472	A 4
2340	F 2	3399	H27	7473	B 4
2345	G 2	3404	O15	7610	J11
2350	I 2	3405	E15	7630	M13
2351	I 3	3406	L26	7755	K15
2380	I27	3407	L26	9001	A 5
2381	O25	3410	F15	9033	J27
2382	I27	3411	F15	9034	K27
2383	F25	3412	G15	9035	K27
2384	H27	3414	G15	9036	K27
2385	H25	3416	G13	9045	E 2
2390	C27	3434	E19	9404	G13
2391	E25	3436	F19		
2395	E25	3437	E19		
2397	G25	3438	C19		
2399	O27	3440	I16		
2400	C17	3441	I17		
2402	C16	3442	I17		
2404	E15	3444	J23		
2405	E15	3446	J23		
2409	F15	3448	I23		
2410	F15	3448	E23		
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	I12		
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		
2604	N 4	3603	N 5		
2614	N 5	3604	N 4		
2615	M 9	3605	M 2		
2616	M10	3610	M 7		
2618	K 7	3611	M 6		
2619	K 6	3612	N 8		
2620	X11	3613	N 7		
2621	N 3	3614	N 6		
2622	N 2	3615	M11		
2623	N 8	3616	M10		
2624	N13	3617	M10		
2625	G13	3618	J 8		
2627	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	M12		
3108	E 6	3631	M12		
3155	A 8	3632	M12		
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

Cl 36532036/020, JREF 130593

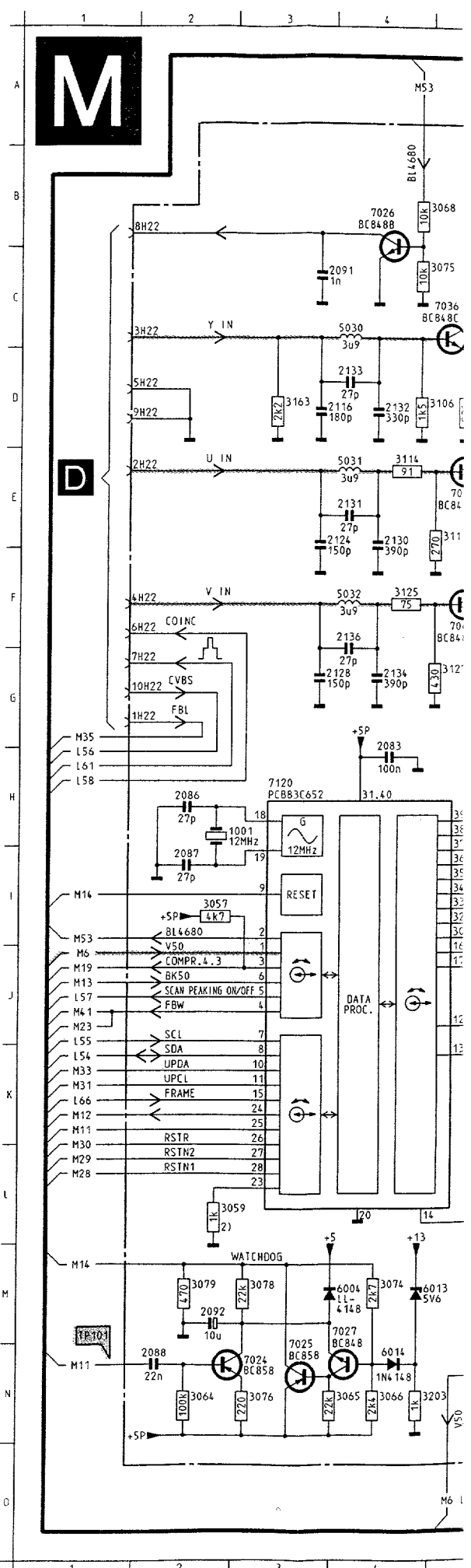
4007 B13  
 4009 B 8  
 4033 B17  
 44.10 M22  
 44.15 G12  
 4634 M 7  
 5118 D 5  
 5155 A 8  
 5157 A10  
 5170 A13  
 5175 A14  
 5190 G 8  
 5400 B17  
 5402 B16  
 5403 G12  
 5406 C21  
 5408 C21  
 54.10 N22  
 6300 N21  
 6301 K12  
 6464 C24  
 6471 C 3  
 7103 E 4  
 7105 E 5  
 7125 C 8  
 7126 C 8  
 7200 H 8  
 7210 I 8  
 7233 I12  
 7234 K13  
 7235 N 9  
 7330 N26  
 7335 C23  
 7337 C23  
 7338 B24  
 7350 H 3  
 7380 D26  
 7400 D14  
 7402 E14  
 7404 G14  
 7406 C16  
 7408 D20  
 7410 K23  
 7466 C26  
 7470 A 3  
 7471 B 3  
 7472 A 4  
 7473 B 4  
 7610 J11  
 7630 M13  
 7755 K15  
 9001 A 5  
 9033 J27  
 9034 K27  
 9035 K27  
 9036 K27  
 9045 E 2  
 9404 G13

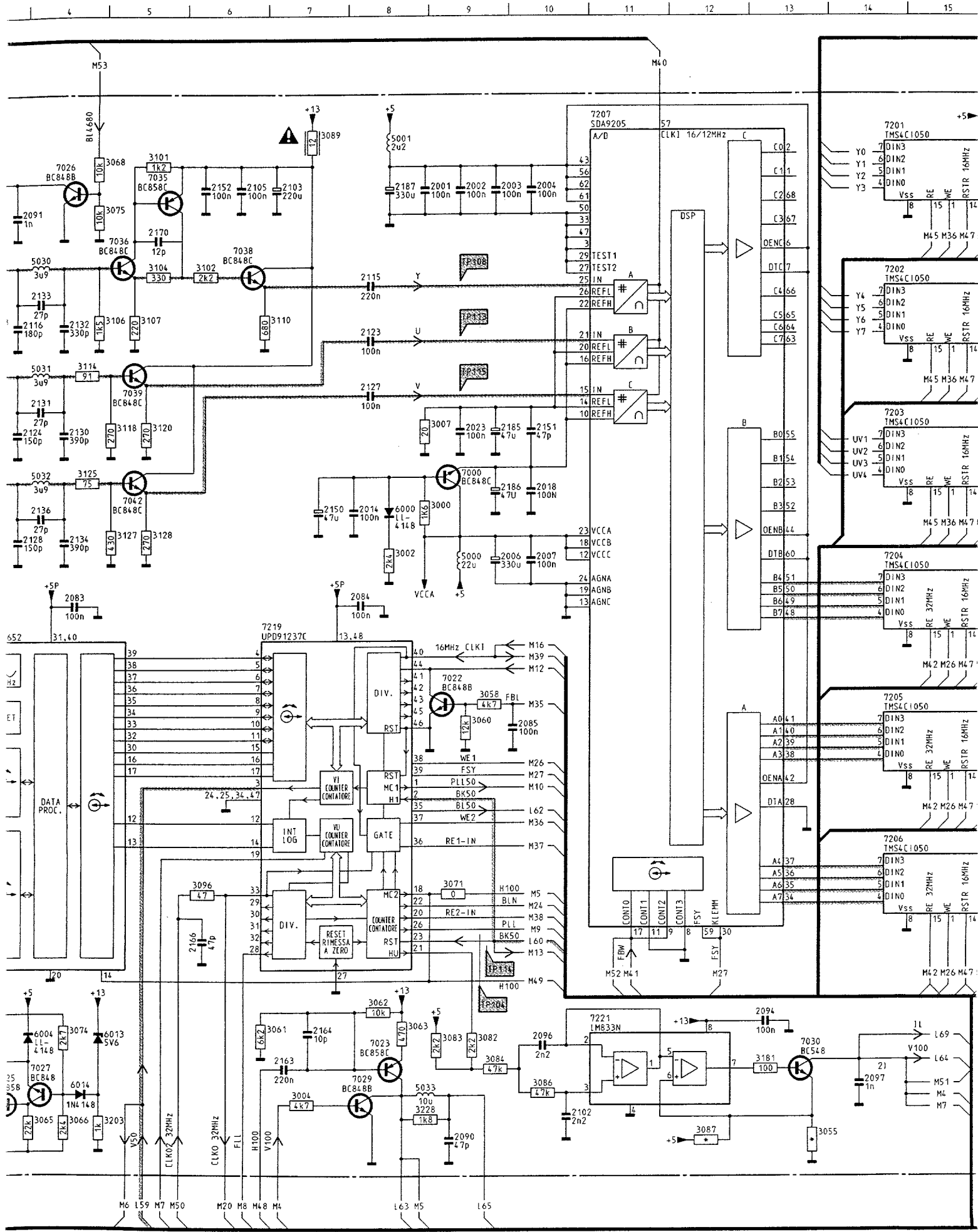


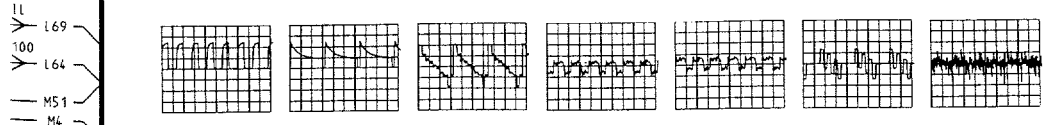
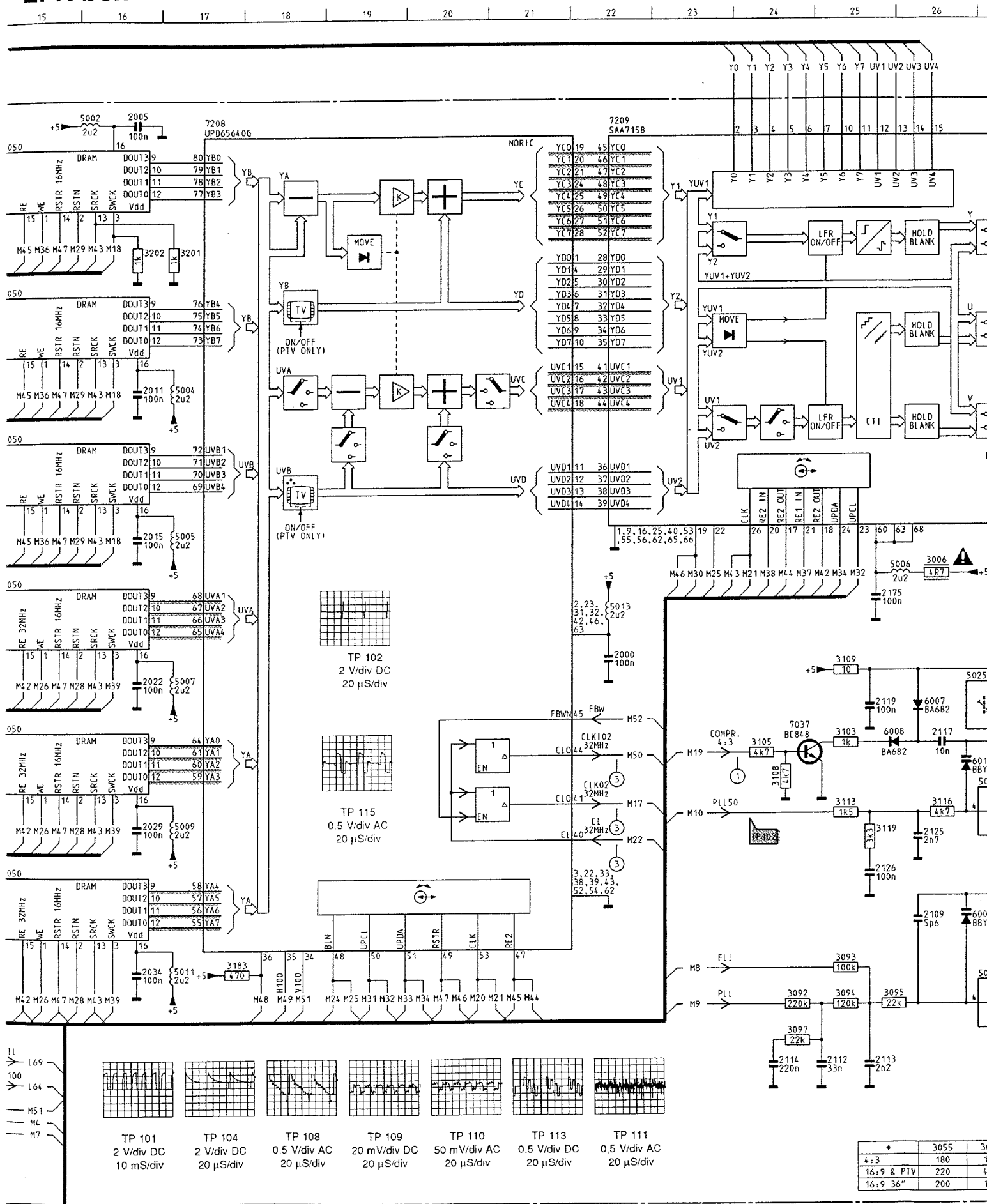


# M

# D



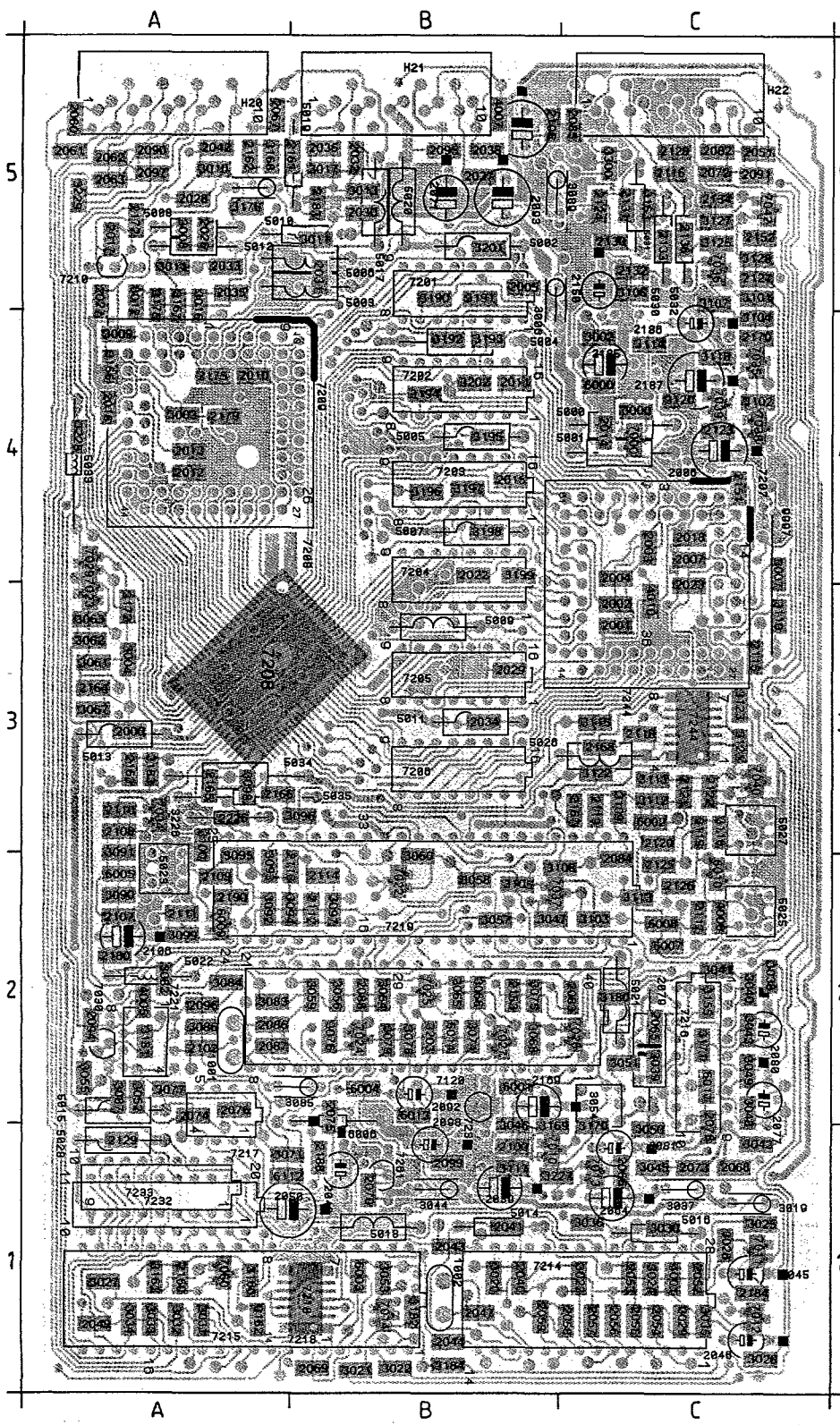




TP 101 2 V/div DC 10 mS/div  
 TP 104 2 V/div DC 20 μS/div  
 TP 108 0.5 V/div AC 20 μS/div  
 TP 109 20 mV/div DC 20 μS/div  
 TP 110 50 mV/div AC 20 μS/div  
 TP 113 0.5 V/div DC 20 μS/div  
 TP 111 0.5 V/div AC 20 μS/div

*	3055	308
4:3	180	150
16:9 & PIV	220	470
16:9 36"	200	180

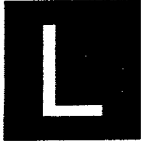




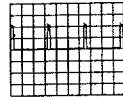
2170 C4	3092 A2	5018 B1
2172 A5	3093 A2	5019 B5
2175 A4	3094 A2	5020 B5
2179 A4	3095 A2	5021 C2
2180 A2	3096 B3	5022 A2
2181 B5	3097 B2	5023 A2
2184 C1	3098 A3	5025 C2
2185 C4	3099 A2	5026 C3
2186 C4	3100 A3	5027 C3
2187 C4	3101 C5	5028 A1
2188 B1	3102 C4	5030 C5
2190 A2	3103 C2	5031 C5
2226 A3	3104 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
H22 C5	2015 B4	2036 B5	2052 C1	2069 B1	2085 C5	2103 B5	2120 C3	2150 C5
1001 A2	2016 A4	2037 B5	2053 C1	2070 B1	2086 A2	2105 B5	2121 C3	2151 C4
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
2012 A4	2033 A5	2049 A1	2066 C1	2082 C5	2099 B1	2117 C2	2133 C5	2169 B2

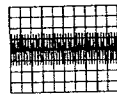
# LFR Box



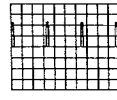
LFR BOX TXT-DECODER  
 DECODEUR TXT  
 DECODIFICATORE TELEVIDEO



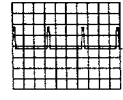
TP 100  
 2 V/div AC  
 20 μS/div



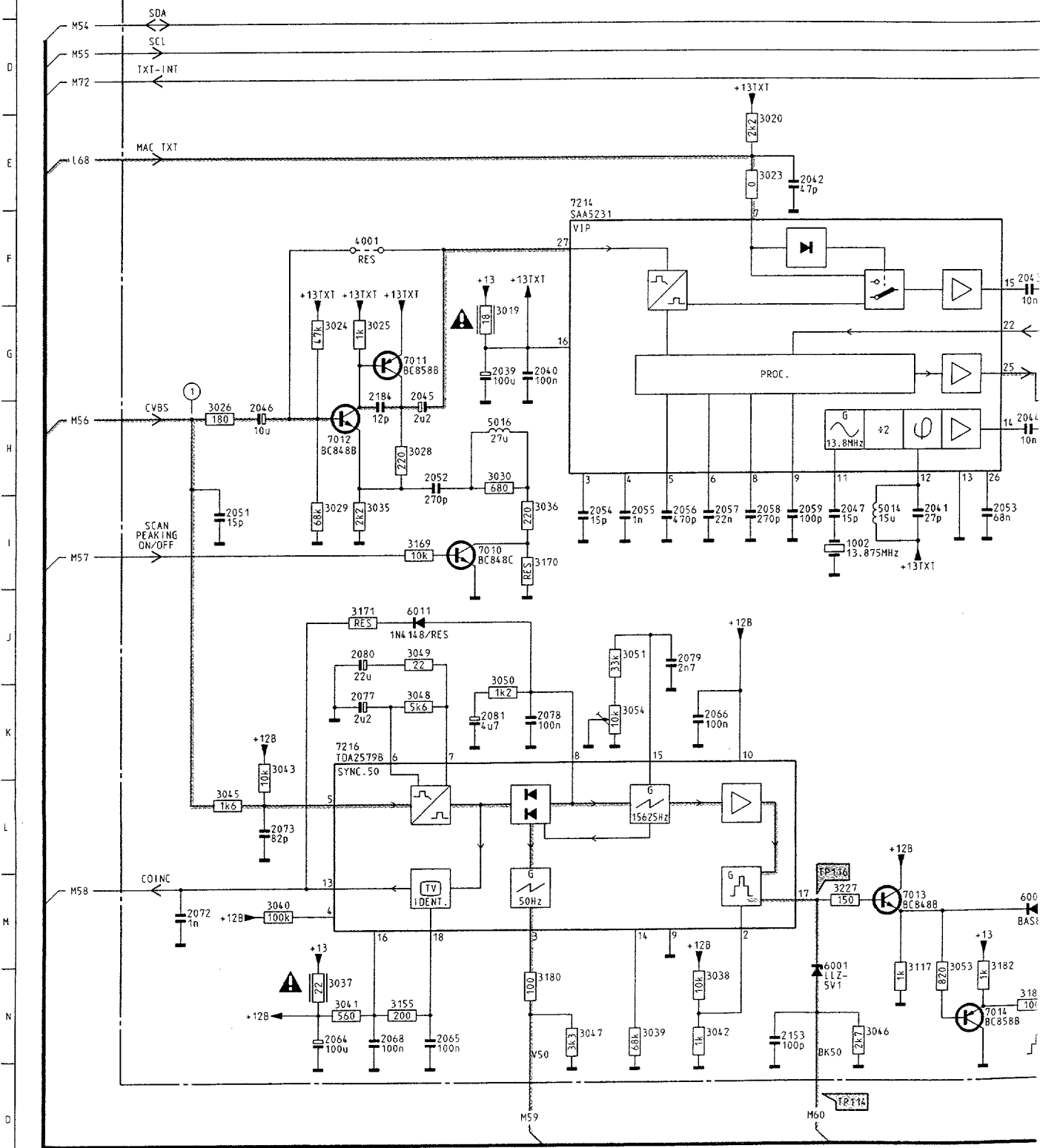
TP 103  
 0.5 V/div AC  
 2 μS/div



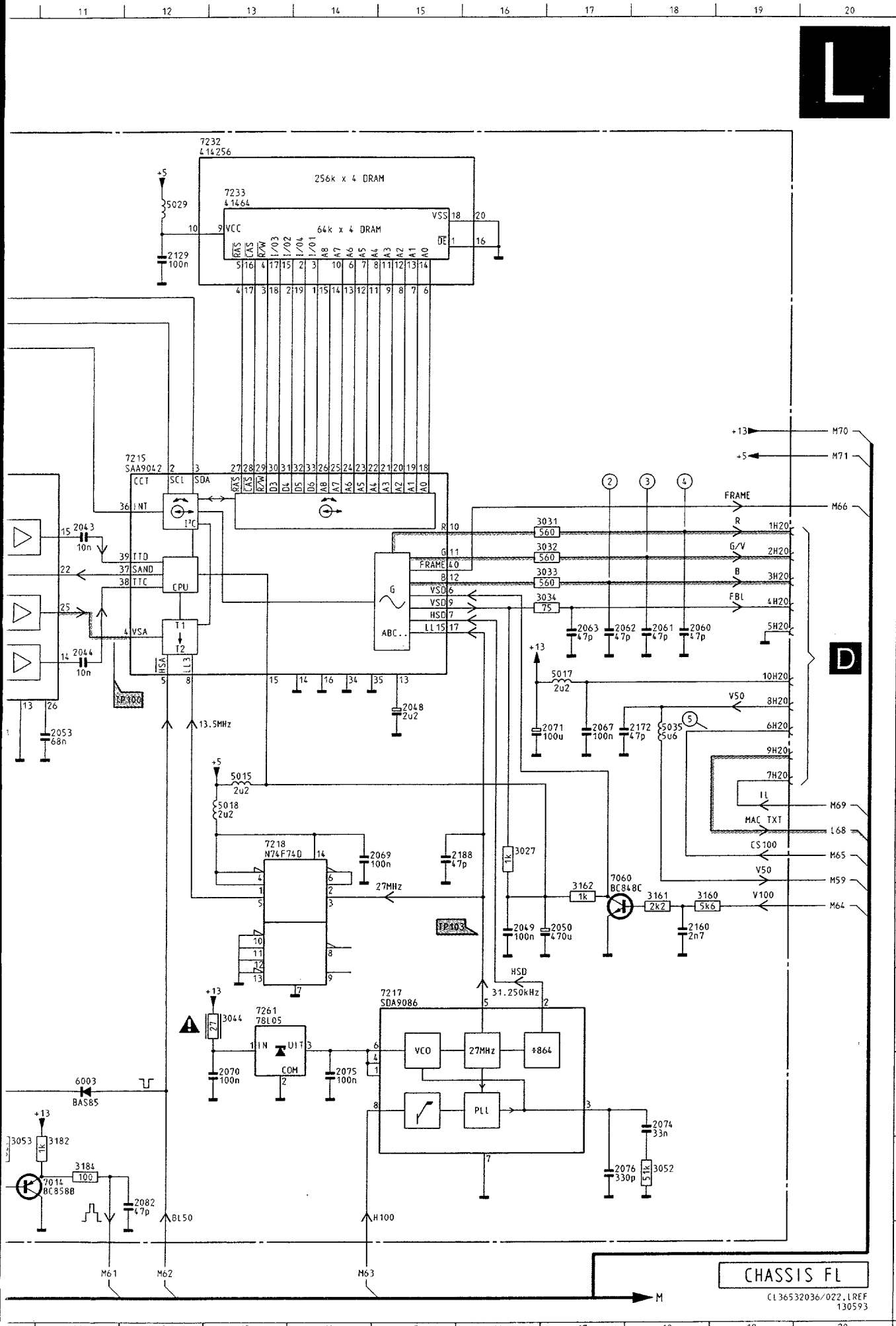
TP 114  
 2 V/div DC  
 20 μS/div



TP 116  
 5 V/div AC  
 20 μS/div

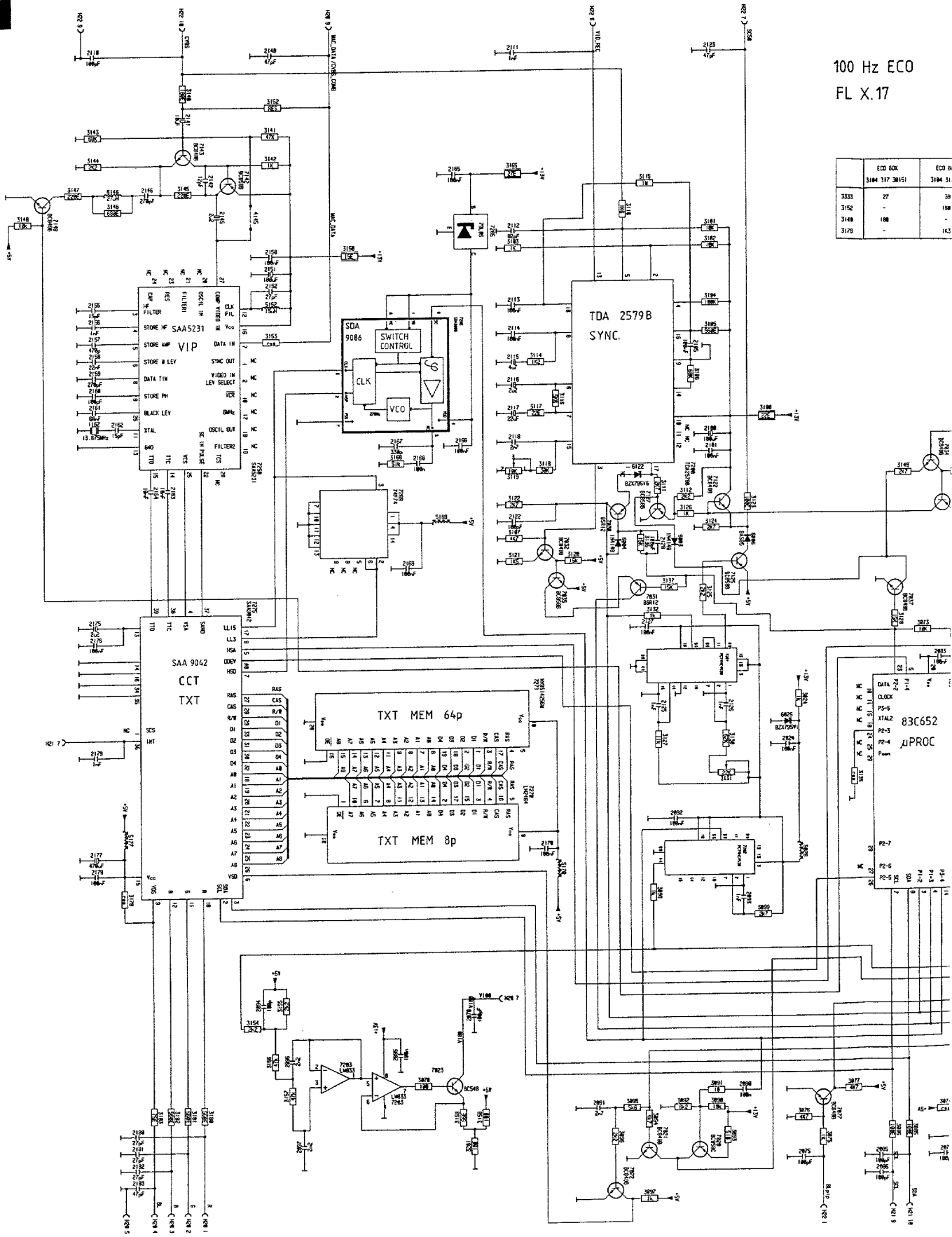


# LFR Box



1002	I 9	7217	L 1
2039	G 5	7218	J 1
2040	G 6	7232	B 1
2041	I 10	7233	B 1
2042	E 9	7261	L 1
2043	F 11		
2044	H 11		
2045	H 5		
2046	H 3		
2047	I 9		
2048	H 15		
2049	K 16		
2050	K 17		
2051	I 3		
2052	H 5		
2053	I 11		
2054	I 6		
2055	I 7		
2056	I 7		
2057	I 8		
2058	I 8		
2059	I 9		
2060	H 18		
2061	H 18		
2062	H 17		
2063	H 17		
2064	N 4		
2065	N 5		
2066	K 8		
2067	I 17		
2068	N 4		
2069	J 14		
2070	M 13		
2071	I 16		
2072	M 2		
2073	L 3		
2074	M 18		
2075	M 14		
2076	N 17		
2077	K 4		
2078	K 6		
2079	J 7		
2080	J 4		
2081	K 5		
2082	N 12		
2129	C 12		
2153	N 8		
2160	K 18		
2172	I 18		
2184	H 4		
2188	J 15		
3019	G 5		
3020	E 8		
3023	E 8		
3024	G 4		
3025	G 4		
3026	H 2		
3027	J 16		
3028	H 4		
3029	I 4		
3030	H 5		
3031	F 17		
3032	G 17		
3033	G 17		
3034	G 17		
3035	I 4		
3036	I 6		
3037	N 4		
3038	N 8		
3039	N 7		
3040	M 3		
3041	N 4		
3042	N 8		
3043	K 3		
3044	L 13		
3045	L 3		
3046	N 9		
3047	N 6		
3048	K 5		
3049	J 5		
3050	K 5		
3051	J 7		
3052	N 18		
3053	M 10		
3054	K 7		
3117	M 10		
3155	N 4		
3160	K 18		
3161	K 18		
3162	K 17		
3169	I 5		
3170	I 6		
3171	J 4		
3180	N 6		
3182	M 11		
3184	M 11		
3227	M 9		
4001	F 4		
5014	I 9		
5015	I 13		
5016	H 5		
5017	H 17		
5018	J 13		
5035	I 18		
6001	N 9		
6003	M 11		
6011	J 5		
7010	I 5		
7011	G 4		
7012	H 4		
7013	M 10		
7014	N 11		
7060	J 17		
7214	F 6		
7215	F 12		
7216	K 4		

# 100 Hz / TXT



100 Hz ECO  
FL X.17

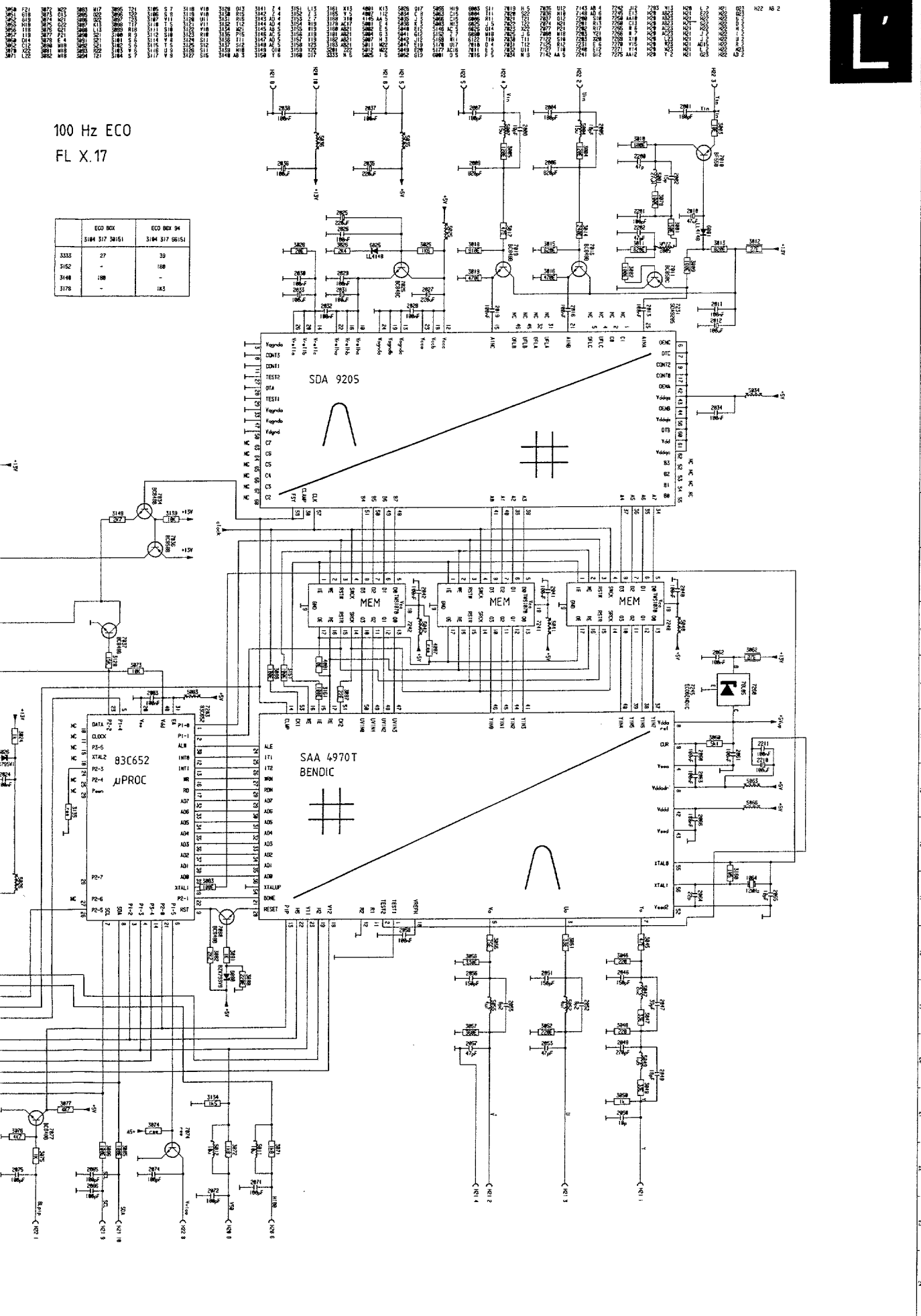
	ECO BOX	ECO B:
3332	3184	3184 31
3152	317	33
3148	108	108
3170	1	152





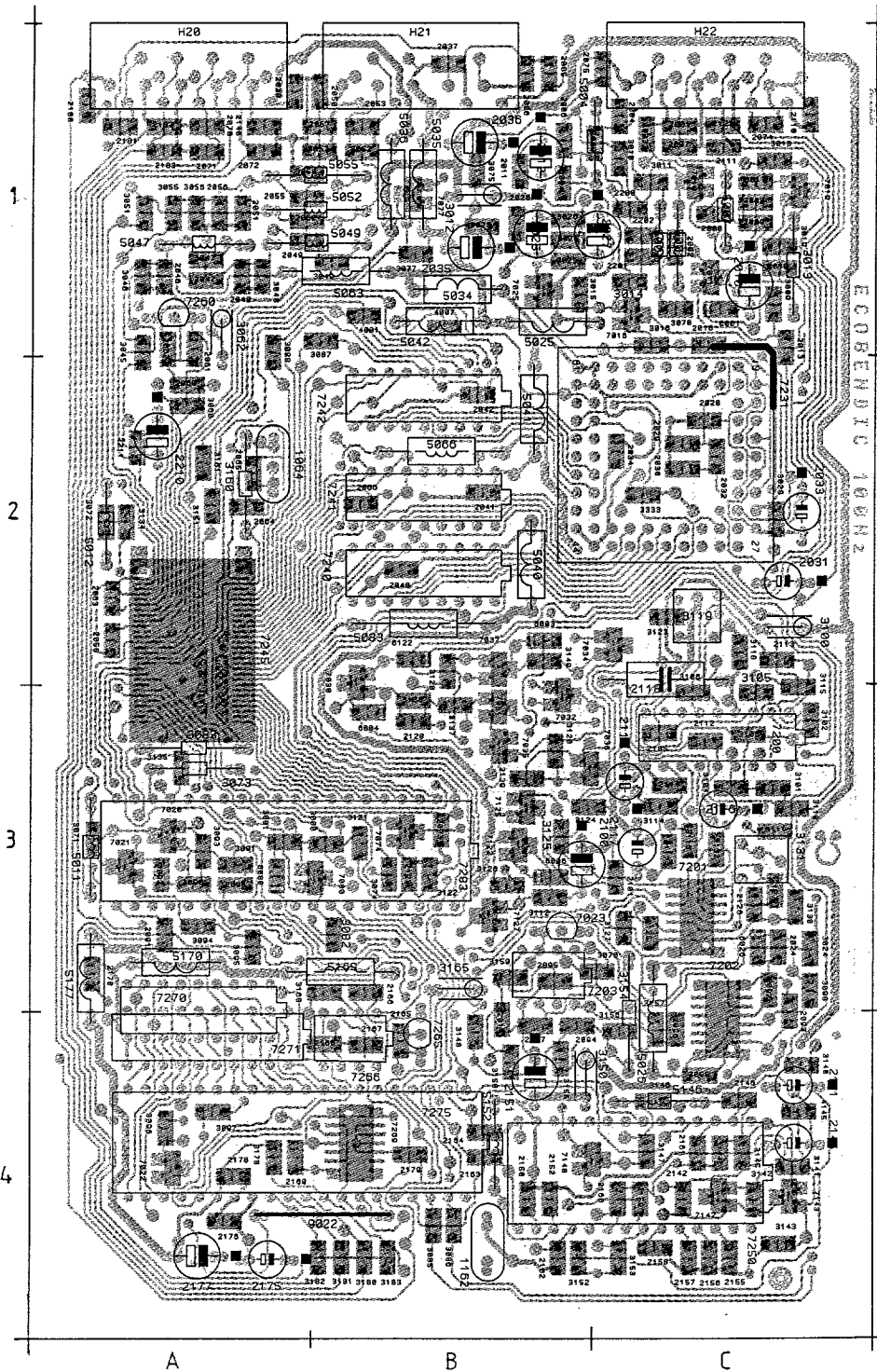
100 Hz ECO  
FL X.17

	ECO BOX	ECO BOX 94
3333	3184 317 36151	3184 317 36151
3152	27	39
3148	188	188
3178		183



H22 A8 2

100 Hz / TXT



H20 A1	2013 C1	2037 B1
H21 B1	2016 C1	2038 A1
H22 C1	2019 C1	2040 B2
1064 A2	2024 C3	2041 B2
1162 B4	2025 B1	2042 B2
2001 C1	2026 B1	2046 A1
2002 C1	2027 C1	2047 A1
2004 C1	2028 C2	2048 A1
2005 C1	2029 C2	2049 A1
2006 B1	2030 C2	2050 B1
2007 C1	2031 C2	2051 A1
2008 C1	2032 C2	2052 A1
2009 C1	2033 C2	2053 B1
2010 C1	2034 C2	2055 A1
2011 B1	2035 B1	2056 A1
2012 B1	2036 B1	2057 B1

2058 A2	2090 A3	2115 C3
2060 A2	2091 A3	2116 C3
2061 A1	2092 C3	2117 C3
2062 A1	2093 C3	2118 C2
2063 A2	2094 B4	2122 B3
2064 A2	2095 B3	2123 C1
2065 A2	2096 C4	2125 C3
2066 B2	2097 B4	2126 C3
2070 A1	2100 B3	2127 C3
2071 A1	2101 C3	2128 B3
2072 A1	2105 C3	2140 A1
2074 C1	2110 C1	2141 C4
2075 C1	2111 C1	2142 C4
2083 B3	2112 C3	2145 C4
2085 B1	2113 C2	2146 C4
2086 B1	2114 C3	2150 B4

2151 B4	2169 A4	2170 A3
2152 B4	2160 C4	2175 A4
2155 C4	2156 C4	2176 A4
2157 C4	2158 C4	2177 A4
2158 C4	2159 C4	2178 A4
2160 C4	2161 C4	2179 B4
2162 B4	2163 B4	2181 A1
2163 B4	2164 B4	2182 A1
2164 B4	2165 B4	2183 A1
2166 B3	2167 B4	2200 C1
2168 B4	2168 B4	2201 C1
		2202 C1
		2209 C1
		2210 A2
		2211 A2
		3003 C1

3004 B1	3005 C1	3009 C1
3010 C1	3011 C1	3012 B1
3013 C1	3014 C1	3015 B1
3016 C1	3017 C1	3018 C1
3019 C1	3020 C1	3024 C3
3025 B1	3026 B1	

3143 C4	3144 C4	3145 C4
3146 C4	3147 C4	3148 B4
3149 B2	3150 B4	3151 A2
3152 B4	3153 C4	3154 C4
3155 B4	3156 C4	3157 C4
3158 B4		

3028 C2	3159 B3
3045 A1	3160 A2
3046 A1	3161 A2
3047 A1	3165 B3
3048 A1	3168 B3
3049 B1	3178 A4
3050 A1	3180 B4
3051 A1	3181 B4
3052 B1	3182 B4
3055 A1	3183 B4
3056 A1	3201 B4
3057 B1	3333 C2
3060 A2	4001 B1
3062 A1	4007 B1
3070 C3	4145 C4
3071 A3	5001 C1
3072 A2	5002 C1
3073 A3	5004 C1
3074 B3	5007 C1
3075 B1	5011 A3
3076 B1	5012 A2
3077 B1	5025 B1
3078 C1	5026 C4
3080 B3	5034 B1
3081 A3	5035 B1
3082 B3	5036 B1
3083 A3	5040 B2
3085 B4	5041 B2
3086 B4	5042 B1
3087 B1	5047 A1
3088 A1	5049 B1
3090 A3	5052 B1
3091 A3	5055 B1
3092 A3	5063 B1
3093 A3	5066 B2
3094 A3	5083 B2
3095 A3	5146 C4
3096 A4	5152 B4
3097 A4	5169 B3
3098 C3	5170 A3
3099 C4	5177 A3
3100 C2	6001 C1
3101 C3	6003 B2
3102 C3	6004 B3
3103 C3	6006 B3
3104 C3	6025 B1
3105 C3	6026 C3
3106 C3	6080 A3
3110 C3	6122 B2
3111 C3	7010 C1
3112 B3	7011 C1
3114 C3	7016 C1
3115 C3	7019 C1
3116 C3	7020 A3
3117 C3	7021 A3
3118 C2	7022 A4
3119 C2	7023 B3
3120 B3	7025 B1
3121 B3	7030 B2
3122 B3	7031 B3
3123 C2	7032 B3
3124 B3	7034 C2
3125 B3	7035 B3
3126 B3	7036 B3
3127 C3	7037 B2
3128 B2	7074 B3
3130 C3	7077 B1
3131 C3	7080 B3
3132 C3	7122 B3
3134 A2	7125 B3
3135 A3	7127 B3
3136 B3	7142 C4
3137 B3	7143 C4
3139 B3	7148 C4
3140 C4	7200 C3
3141 C4	7201 C3
3142 C4	7202 C4
3143 C4	7203 B3
3144 C4	7231 C2
3145 C4	7240 B2
3146 C4	7241 B2
3147 C4	7242 B2
3148 B4	7245 A4
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

# 7. Electrical adjustments

## Setting conditions

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

## Electrical settings on the large signal panel

- .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.
- .2 **+5V supply voltage (FL1/2.16)**  
 Connect a voltmeter to pin 8 of L02  
 Adjust the voltage to 5.4V using R3558
- .3 **+13V supply voltage (FL1/2.16)**  
 Connect a voltmeter to pin 6 of connector L02  
 Adjust the voltage to 14.2V using R3234.
- .4 **Focusing**  
 This is set with the focus potentiometer (top one on the Line output transformer/DAF Unit).
- .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.
- .6 **Vg2 setting**  
 Supply an aerial signal.  
 Set the contrast to maximum and the brightness and saturation to nominal.  
 Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth.  
 Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer/DAF unit) to 150V ±2V.

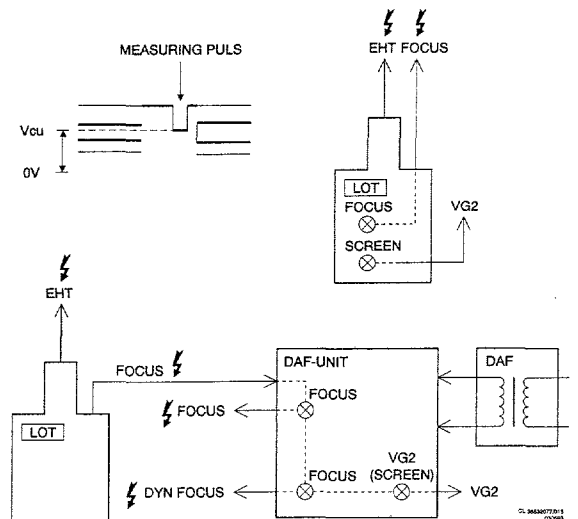


Fig. 7.1

- 1.7 **Stable OSD**  
 Short circuit pin 11 IC7401 to pin 13 IC7401  
 Short circuit pin 5 IC7755 to earth.  
 Measure the frequency on pin 16-IC7401 and set this to 15,625 Hz ±25 Hz with R3434.  
 Remove the short circuits.
- 1.8 **Horizontal synchronisation**  
 Connect point 5-IC7400 to point 9-IC7400.  
 Supply an aerial signal and set the receiver.  
 Adjust potentiometer R3406 until the picture is straight.  
 Break the through connection.
- 1.9 **Horizontal centring**  
 Feed in a test pattern that makes the horizontal linearity visible (e.g. a symmetrical cross pattern or a test circle).  
 Adjust the DC offset current through the horizontal deflection coil using R3513 so that the horizontal linearity is optimal (the distance between the two vertical lines should be equal on both the left and right hand sides of the picture). It is also possible to use a ruler for this purpose. The picture can then be centred using R3415.
- 1.10 **Picture width**  
 Set using potentiometer R3607.
- 1.11 **Vertical centring**  
 Set using potentiometer R3467.
- 1.12 **Picture height**  
 Set using potentiometer R3410.
- 1.13 **Picture height**  
 Movie expand off: set using potentiometer R3410.  
 Movie expand on: set using potentiometer R3422.
- 1.14 **East/West correction**  
 Set using potentiometer R3602.

- 2. E
- 2.1 Si
- Co
- si
- Se
- th
- U
- ar
- 2.2 4.
- Si
- pc
- ar
- 2.3 EI
- 2.3.1 C/
- Co
- th
- 4.
- pi
- os
- Se
- Re
- 2.3.2 4.
- Co
- wi
- Co
- Co
- Se
- Re
- 2.3.3 6.
- Co
- Et
- 2C
- Co
- Co
- Se
- Re
- 2.3.4 C/
- Co
- be
- ee
- pr
- 2.3.5 C/
- Co
- be
- ee
- pr
- 2.3.6 Sl
- Co
- bl:
- 3-
- Co
- mi

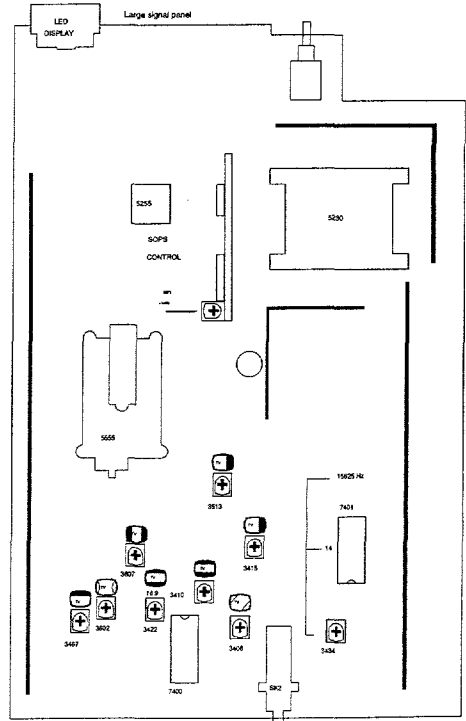


Fig. 7.2

**2. Electrical settings on the small signal panel**

**2.1 Stereo audio channel separation**

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

**2.2 4.43 MHz chroma suppression circuit**

Supply a colour bar signal. Connect an oscilloscope to point 17 of IC7324 and set L5305 to minimum amplitude of the chrominance signal.

**2.3 Electrical settings IC7365 (TDA4650)**

**2.3.1 Chroma bandpassfilter**

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7365 to pin 13-IC7365 (+12V). Connect an oscilloscope to pin 15-IC7365. Set L5345 to maximum amplitude. Remove the interconnection.

**2.3.2 4.50 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

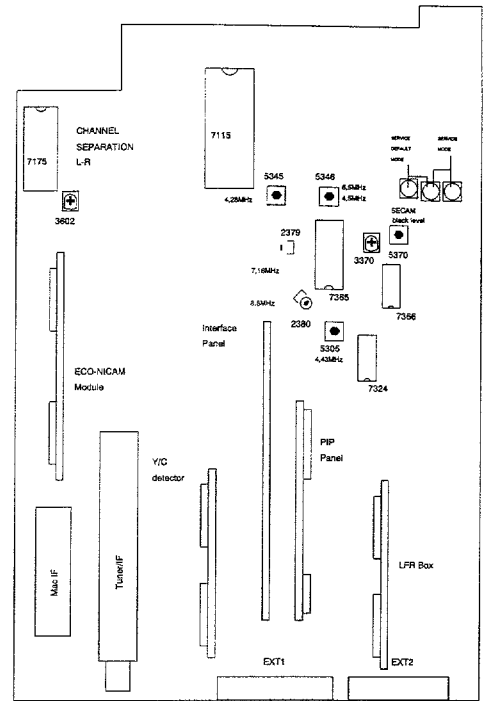


Fig. 7.3

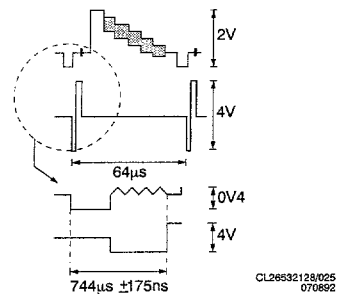


Fig. 7.4

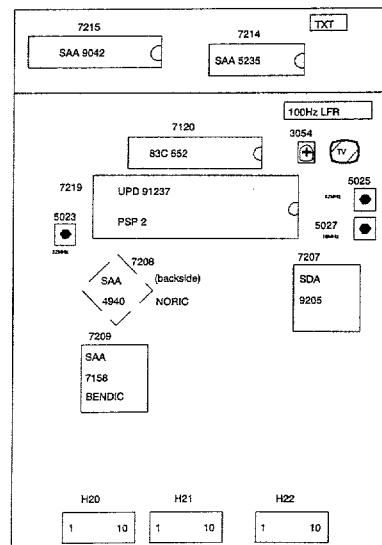


Fig. 7.5

# 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  $\mu\text{sec}$  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  $\mu\text{sec}$  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 ( $C_i \leq 15\text{pF}$ ) 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. ( $\pm 5\text{Hz}$ )

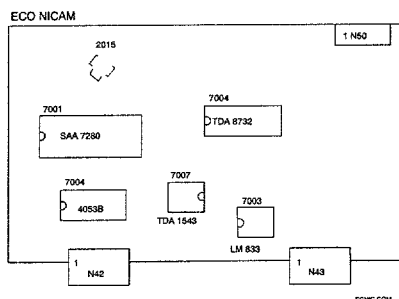


Fig. 7.6

## 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.

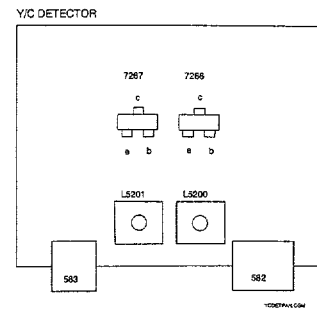


Fig. 7.7

## 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.

### 762 AGC

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

### 6.3 Setting for PIP modules with TDA4554

#### 6.3.1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.  
Connect pin 27-IC7125 to 13-IC7125.  
Connect an oscilloscope to pin 15-IC7125.  
Set L5118 to maximum amplitude.  
Remove the interconnection.

#### 6.3.2 PAL chroma auxiliary oscillator

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

#### 6.3.3 NTSC chroma auxiliary oscillator

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

#### 6.3.4 The delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554). Set the oscilloscope to the X-Y position.  
Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin).  
Set the pattern generator to the "DEM" mode.  
Set R3157 so that the vectors lie on top of one another in the origin.

# Electrical adjustments

## 6.3.5 SECAM identification

Connect a pattern generator and supply a SECAM colour bar signal.

Connect pin 27-IC7125 to pin 13-IC7125.

Connect an oscilloscope to pin 21-IC7125.

Adjust L5190 to maximum DC level.

Remove the interconnection.

## 6.3.6 SECAM demodulators

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback.

In the same way set L5170, but now measure at pin 3-IC7125.

Remove the interconnection.

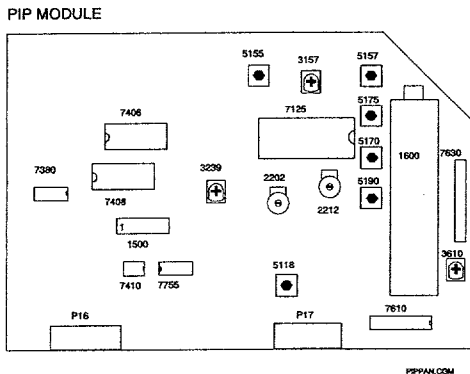


Fig. 7.8

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

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

### 6.4.1 Adjustment of the PLL oscillator

Movie expand off

Main picture 16:9

PIP-picture 16:9

With the aid of L5101 on the PLL PCB set the DC level on pin 5 of 1500 to 2.5V.

### 6.4.2 Adjustment of the duty cycle

Movie expand off

Main picture 16:9

PIP-picture 4:3

Connect an oscilloscope to pin 11 of IC7408 (SDA9088).

With the aid of R3130 on the PLL PCB set the time T to 13nsec (see fig. 7.9).

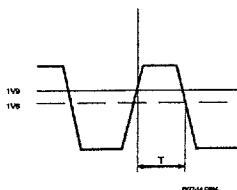


Fig. 7.9

## 7. Alignments in the Service Menu

### 7.1

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

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

### 7.2

#### White Drive Alignment

Switch the set into 4:3 mode.

Switch out the DNR via the remote control.

Select a white picture. (A black picture (e.g. VCR1) set at maximum brightness is also suitable).

Switch the Service Menu in.

Select the required white drive alignment by adjusting the colours red and blue in relation to green (green is the reference colour).

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

### 7.3

#### Cut-off Alignment

Switch the set into 4:3 mode.

Switch out the DNR via the remote control.

Select a black picture (e.g. VCR1).

Switch the service menu in.

Set the brightness level so that the picture just (but clearly) illuminates.

Using the Cut-off adjustments align the colour temperatures in such a manner that at minimum illumination of the picture they are the same as the colour temperatures at maximum brightness. (At minimum picture illumination it is possible that one colour may dominate. This is however normal and does not have to be (fully) compensated with the cut-off alignment).

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

### 7.4

#### D2-MAC Alignment

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

### 7.5

#### Option Alignment

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

For example, a set has:

<b>Option code 1</b>	
<i>Function</i>	<i>Value</i>
Frontend FQ816/ME/IF	2
PIP Module	8
NTSC-M	16
NICAM module	64
2nd Frontend on PIP module	128 +
	-----

**Option code 1 is now: 218**

<b>Option code 2</b>	
<i>Function</i>	<i>Value</i>
IC7175 present on SSP	1
100 Hz	4
ECO NICAM	32
100 Hz LFR	64 +
	-----

**Option code 2 is now: 101**

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

**Option code 3 is now: 64**

<b>Option code 4:</b>	
<i>Function</i>	<i>Value</i>
Multi-PIP	2
FL2 model	4 +
	-----

**Option code 4 is now: 6**

Optioncode 1	
Nbr.	Function
0	<b>Front end = FQ916</b> A reception of PAL BG or PAL BG and SECAM BG is now possible
1	<b>Front-End = FQ944</b> Only reception of the UHF band is now possible
2	<b>Front end = 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).
4	<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).
8	<b>PIP module present</b> This makes it possible to show PIP (Picture in Picture) displays.
16	<b>NTSC-M reception possible</b> This is normally always in combination with front end FQ816/ME/IF or FQ816/MF/IF
32	<b>SECAM DK module fitted</b> In this case transmissions using the SECAM DK system can also be received.
64	<b>NICAM module fitted</b> In this case the digital sound with NICAM transmission can be received.
128	<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.

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

## Electrical adjustments

Optioncode 3	
Nbr.	Function
1	<b>FSS reception only via SAT box</b> This switches the D2-MAC decoder off.
2	<b>Front-end on SAT box is: SF916</b> In this case it is possible to tune the SAT box to 2 GHz.
4	<b>Satellite front-end SF914/SF916 present (SAT MAC reception)</b> Switching on and off satellite reception via the satellite front-end. On switching off the front-end D2-MAC can only be received via cable-TV (CABLE MAC via MAC IF module).
8	<b>MAC IF module present (CABLE MAC reception)</b> This module makes it possible to decode a D2-MAC signal which is received via the cable front-end (FQ816/FQ844). In this case, besides satellite transmitters, MAC transmitters can also be received via the cable.
16	<b>SECAM "Telecom Audio" reception possible</b> This option generates an extra sound channel in the menu on FSS reception. This channel is necessary for the reception of the French "Telecom" satellite. The necessary hardware is present in all sets so that this option may be selected as desired.
32	<b>Cable-MAC reception only in hyperband</b> In this case the reception of MAC-transmitters via the cable is limited to the hyperband.  <b>16:9 present</b>
64	<b>Not in use</b>
128	<b>"Videocolor 36" Picture tube</b>

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>Multi-PIP</b> When the PIP-module operates on a 50Hz basis the Multi-PIP function is present and this option is active. (Multi-PIP provides 9 or 16 small pictures on the screen simultaneously).
4	<b>FL2 model</b> When the operating buttons are located on the side of the set, the set is an FL2 model. (see chapter 4 also).
8-128	<b>Not in use.</b>



### 3. Repair tips

#### 1. The Service Default Mode

The FL1/2 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 S24 and S25 on the small signal panel.

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

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

To deactivate the child-proof lock the following series of commands has to be given using the remote control (see also Section 9):

<MENU>-<BLUE>-<RED>-<MENU+>-<MENU OFF>

##### 1.3 Fault signals

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

**SERVICE 00 00 05 06 05**

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

##### 1.4 Operation

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

#### 2. Error messages

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

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

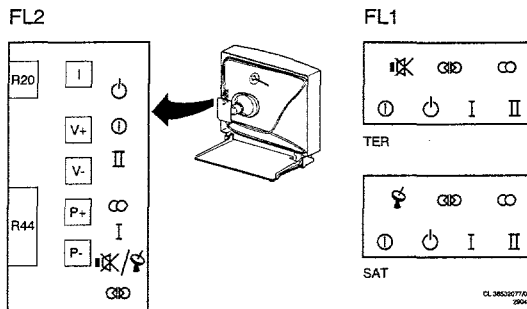


Fig. 8.1

#### 3. Replacement of EEPROM IC7137

If, during a repair, the EEPROM has to be replaced, the microprocessor will detect that the EEPROM is empty. A fault signal (No. 21) will then be displayed.

If the service mode is now activated (see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.

All options have also to be set, the programs installed and the personal preference set.

#### 4. Extension prints

To simplify the measurements ON the various modules extension prints are available for the modules fitted with BTB connectors. Modules can be placed in these connectors so that they stick out above the other prints when the chassis is in the service position.

The code numbers for the extension prints are:

5-fold	4822 395 30261
6-fold	4822 395 30259
8-fold	4822 214 31402
9-fold	4822 395 30258
10-fold	4822 395 30257

#### 5. Removing the PIP module

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

#### 6. Removing the SAT box

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

A:  
st  
th  
re  
D:  
pa  
  
7. E  
E:  
ar  
se  
4:  
  
S:  
  
8. C  
F:  
th  
re  
m  
In  
se  
de  
su  
cc  
  
1.  
2.  
3.  
4.  
5.  
  
Ti  
m  
Ti  
  
L:  
1:  
  
9 D  
9.1 H  
lr  
pi  
sv  
st  
in  
pe  
A:  
pe  
cc  
is  
  
A:  
st  
pi  
m  
(S  
  
A:  
in  
de

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

## 7. Extension cables

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

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

See chapter 4 also.

## 8. Central repair

For panels and modules which are difficult to repair there remains a possibility for central repair. Following receipt of a defective module a repaired and tested module is issued.

In order to guarantee the quality of the central repair service a certain amount of information regarding the defective panel is required. This information should be submitted together with the defective panel. This concerns the following information:

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

The defective modules should be complete and free of mechanical damage.

These facilities are offered for the modules below:

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

## 9. Diagnosis and protection

### 9.1 Hardware and software protection

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

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

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

### 9.2 Protection test point TP56 [diagram A]

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

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

### 9.3 Hardware protection:

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

2. SOPS and/or +11/-11V for the audio output amplifier defective (SOUND-PROT). [diagram G]

The protection circuit activates when the +11V and -11V voltages are no longer in balance, or when both voltages are absent. This protection circuit also operates when the SOPS does not function or is short-circuited.

This protection circuit is fed by the start-up voltage 'Vstart' from the SOPS.

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

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

5. East/west output stage defective [diagram B].  
This protection circuit activates when the current through the east/west switching transistor T7610 exceeds a specific value. In this case transistor T7542 will conduct for a brief period. (the base-emitter voltage  $U_{be}$  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.

## 9.4 Software protection

### 9.4.1 Error message 99

Error message 99 is displayed when software protection is generated by the microprocessor. Software protection becomes active when the +13V and or +5V power supply voltage is not present on the small signal panel (SSP). Due to the absence of the power supply the connected components are unable to provide an IC signal to the microprocessor. The processor then sets the SOPS in stand-by. If this is the case error message 99 is then displayed. Software protection can be switched out by activating the 'Service Default Mode' (see §1).

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

During hardware protection the microprocessor makes repeated attempts at communication with the connected IC's before making a decision for software protection.

During this period (up to approximately 5 minutes) the set will not react to any operational commands. Because none of the IC's responds in this period various error messages will be displayed by the LED's. If error message 99 does not eventually appear then the protection circuits are not operational and the cause of the fault can be sought elsewhere.

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

### 9.4.2 Software protection

7 +5V on the small signal panel (SSP) [diagram B and C]

To test whether the +5V power supply voltage, from the LOT winding (5555) [diagram B], is reaching the small signal panel without short-circuiting the front-end (1160 [diagram C]) must provide a signal to the microprocessor via IC within a specific time. If this signal does not arrive, the microprocessor switches the main power supply into stand-by, and the LED's will indicate error message 99 once more.

To test whether the front-end is defective the service default mode will have to be selected. If the power supply voltages on the front-end are correct and a front-end error message persists (error 11), then the front-end is defective.

8 +13V on the small signal panel (SSP) [diagrams A, D and F]).

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

9 SAT box power supply defective (only for set with a SAT box (D2-MAC)).

When the SAT box microprocessor does not send a signal to the main processor in the set, the main processor, following error message 51 (SAT box processor), will switch the software protection in. The LED's now indicate error code 99.

To test whether the SAT box processor is defective the service default mode must be selected. If only the error message from the SAT box is now indicated (error 51), and all power supply voltages on the processor are correct, then the SAT box processor is defective.

The operation of the SAT box power supply [diagram O] can be checked as followed:

Disconnect the SAT box and chassis from one another by disconnecting the band cable between the interface panel [diagram P] and the SAT box [diagram O].

When after a short time the set can be started up from stand-by the SAT box will have an incorrect power supply and error message 99 does not appear.

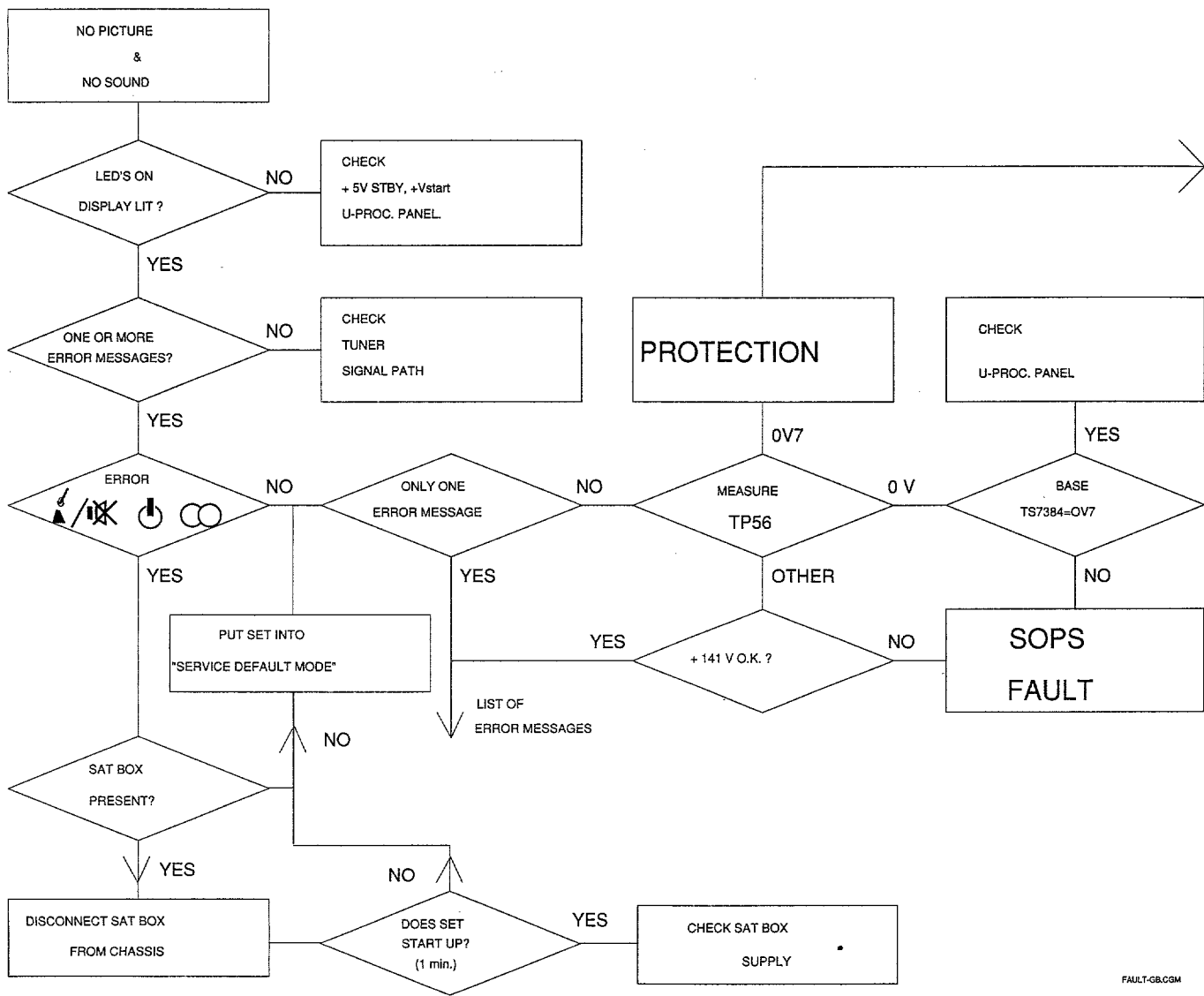
## 9.5 Measurements in the protection circuits.

All hardware circuits are illustrated in figure 8.2.

The oscillograms indicate the voltages on the relevant test points immediately after the set is switched on.

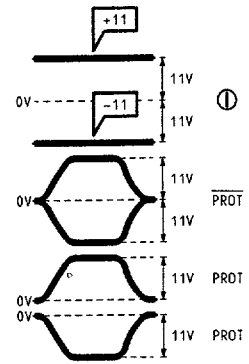
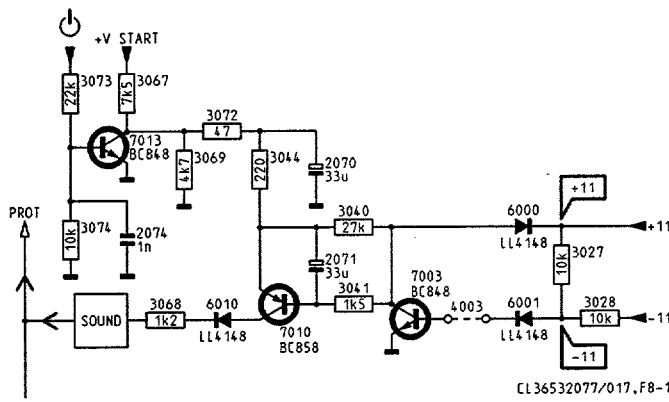
In this case the signals illustrated are for during:

- normal operation
- protection caused by this circuit (PROT);
- protection caused by a different protection circuit (N-PROT).



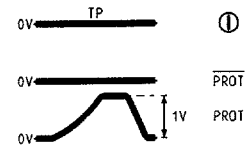
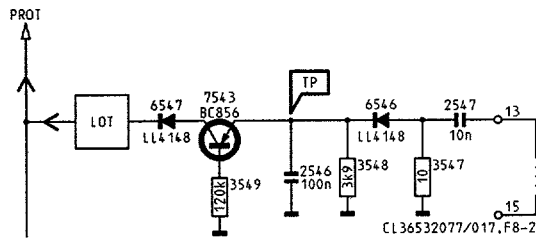
FAULT-GB/GM

+11V  
-11V

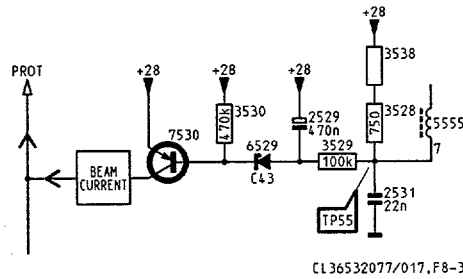


CL36532077/017, F8-1

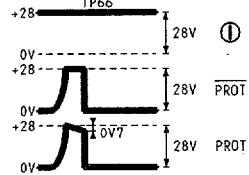
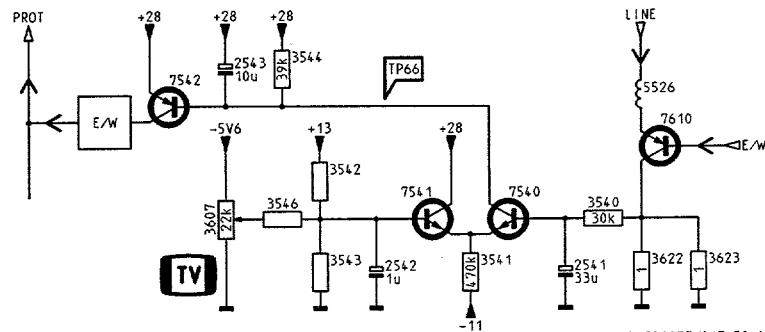
EHT



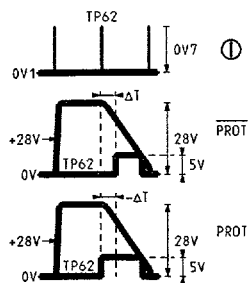
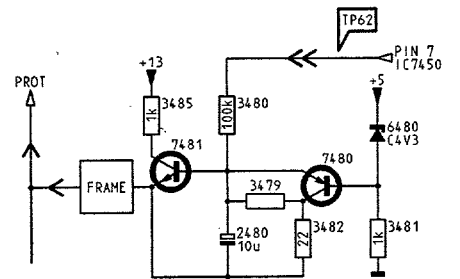
CL36532077/017, F8-2



CL36532077/017, F8-3

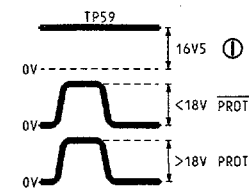
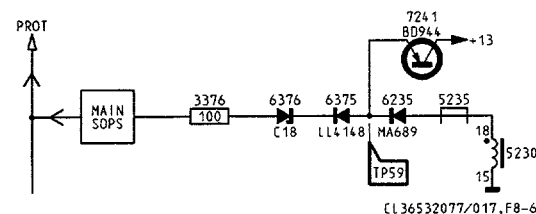


CL36532077/017, F8-4



CL36532077/017, F8-5

+V



CL36532077/017, F8-6

CL36532077/017, FREF 130593

Fig. 8.2

## List of error messages

Error number on screen	Flashing LED							Description of error
1 <sup>1)</sup>			X		X	X		I <sup>2</sup> C, IC7108, SSP [H] (MSM6307)
3					X	X	II	I <sup>2</sup> C, IC7215, 100Hz [L] [L'] SAA9042
4				X			X	I <sup>2</sup> C, IC7220, 100Hz [M] [L'] 83C652
5				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 [Z], 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 X24C04 empty, IC7137, SSP [H] (§ 8.3)
23	X				X			I <sup>2</sup> C, IC7080, convergence panel [V] (TDA8444)
28		X						I <sup>2</sup> C, PIP tuner [J]
29		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						I <sup>2</sup> C, PLL (1500) PIP modulo [L]
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.

In case an error indication on the set is not included in this table, then check the optional codes (see § 7).

About this handbook

This is a handbook to help you with the installation and operation of your new menu TV.

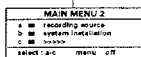
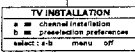
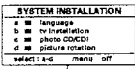
This handbook consists of two parts :

Installation

This part helps you with installing your TV, selecting your menu language, locating and storing your TV channels and composing your favourite list of programme numbers.

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.



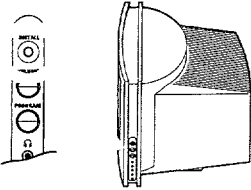
- o This circle in front of a sentence indicates that you have to do something.
o This arrow in front of a sentence indicates the result of what you have done.

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

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, p. 14.
The SYSTEM INSTALLATION menu appears on the screen.



- 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.

LANGUAGE STORED appears for a moment at the top of the menu. The language menu disappears and the System Installation menu appears again.

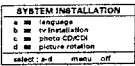
Go on to 4.
Have you pressed the wrong key? Press the red key a for LANGUAGE again and make a new choice.

Searching for and storing TV channels

After you have switched on your TV and selected your menu language, you can search for and store your TV channels.

To expand conventional picture formats to wide screen picture formats, see Other Functions, Picture format, p. 15.

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



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

- o Press the red key a.
o The CHANNEL INSTALLATION menu appears.

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

Selecting the TV system

The television picture is not broadcast in the same way in all countries. We speak of different television systems (PAL, SECAM, NTSC, ...).

- o Press the red key a.

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.
o The CHANNEL 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 CHANNEL INSTALLATION menu now appears.
o Your selection lights up.

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

Go on to step b.
If you have pressed the wrong key, then repeat step a.

Searching for a TV channel

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

Automatic searching..... OR Entering a frequency yourself.....

The TV itself searches for the channel.

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

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

Is the reception still poor? See Tips, p. 32.
If no TV channel is found, interrupt the automatic searching by pressing any digit key. Check if you have selected the correct TV system or if the aerial is connected properly.

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

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

Fine-tuning

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

Go on to step c.

Entering the programme number and name

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

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

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

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

- 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 the correct number.

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

Storing steps a to c

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

- 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.

- o Do you want to store another TV channel?
o Repeat steps a-b-c-d.

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.

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

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

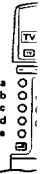
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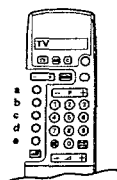
### Favourite TV channels

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

### Picture rotation

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

### Main Menu

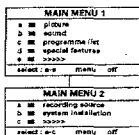


You use the keys in the grey area of the drawing to operate the main menu.

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

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

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



### Adjusting the picture

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

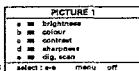
- Press one of the colour keys to select the adjustment you want to regulate.
- When you have a set that can receive the NTSC system and when USA is selected in Selecting the TV system, see p. 5, also the option that appears in the PICTURE menu.
- The selected adjustment lights up.
- Press MENU - or + in order to regulate the selected adjustment.
- Press a colour key once more in order to select another adjustment.

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

#### Digital scan (Line Flicker Reduction)

In certain circumstances while watching TV programmes it may be preferred to switch off the digital scan line flicker reduction.

- Press the corresponding colour key for DIGITAL SCAN.
- Press MENU - in order to switch off the line flicker reduction.
- Press MENU.
- The MAIN MENU appears again.



### Adjusting the sound

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

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

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

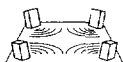
#### Speech

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

#### Spatial and surround sound

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

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



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

Mono broadcasting activates the two loudspeakers of your TV set or the two loudspeakers connected to FRONT.

- Select SPATIAL ON.
- You get a pseudo stereo effect.

Stereo broadcasting activates the two loudspeakers of your TV or the two loudspeakers connected to FRONT and the two loudspeakers connected to REAR.

- Select SPATIAL ON.
- You get a spatial stereo effect.

#### Sound mode

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

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

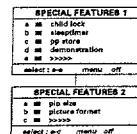
- Press MENU.
- The MAIN MENU 1 appears again.

### Programme list

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

### Special features

- Press MENU.
- Press the corresponding colour key for SPECIAL FEATURES.
- The SPECIAL FEATURES menu appears.
- Press a colour key in order to choose between child lock, sleep timer, pp store, demonstration, pip size or picture format.
- Your choice lights up.
- Press once more on a colour key to make another choice.



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

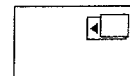
- Sleep timer**  
With the aid of the sleep timer you can set the time when the TV should switch itself off.
- Press the corresponding colour key for SLEEP TIMER.
- Hold the key MENU + pressed down.
- The counter runs from off up to 90 minutes.
- Hold the key MENU - pressed down.
- The counter runs from 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. Up to the last minute you can always change the time set.



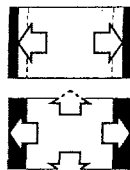
- PP store**  
Adjustments made in the picture- and sound menu can be stored in the memory and be called up again with the PP key.
- Press the corresponding colour key for PP STORE.
- PP STORE lights up and PERSONAL PREFERENCE STORED appears briefly on the top of the menu. At this point all previous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

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

- Pip size**  
You can select either a large or a small pip format.
- Press the corresponding colour key for PIP SIZE.
- Press MENU - or +.
- For more information about Pip, see Pip, Picture in Picture, p. 20.



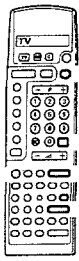
- Picture format**  
A programme in the conventional picture format can be expanded so that you can take full advantage of your wide screen.
- Press the corresponding colour key for PICTURE FORMAT.
- Press MENU - or + repeatedly to select NORMAL, PANORAMA or EXPAND in order to choose between a conventional,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





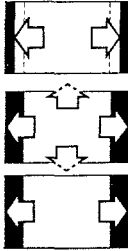
# Directions for use

## Other functions



### Picture format

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



Making subtitles visible from pictures from VCR1, VCR2 or SAT

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

### Previous programme

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

### Brightness

- Open the door of the remote control.
- Press **[\*]** - or + in order to adjust the brightness.

### Selecting satellites

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

### PP key

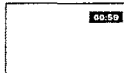
- With the green **PP**-key you can call up again the picture and sound adjustments which have been stored with the **PP store** in the Special Features menu, p.14.
- Open the door of the remote control.
- Press **PP**.

### Information on screen

- After the selection of a TV channel the following information appears briefly on your screen:
  - ... the programme number and name of the selected TV channel
  - ... the actually selected sound mode if the TV-channel transmits stereo or digital sound
  - ... **SOUND MUTED** when the sound is temporarily interrupted
  - ... the name of the pip connection if pip is switched on.
  - See Pip-Picture In Picture, p.20
  - ... **DUAL I** or **II** in case of bilingual broadcast.

PR) EBC1

SOUND MUTED



- Open the door of the remote control.
- Press **[C]** short.
- The channel information appears on the screen for a few seconds.
- If the sleep timer is on, then the remaining time becomes visible.

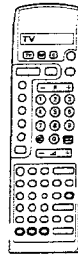
### Permanent programmnumber

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

### Bilingual Broadcast

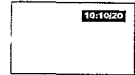
If you are watching a TV channel which is being broadcast in two languages, dubbed and original language, you can make your choice.

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



### Freezing the picture

- When watching you can freeze the picture at any moment.
- Press **[F]**.
- Press **[F]** again to return to normal picture.

### DNR

- With **DNR** (Dynamic Noise Reduction), you can reduce the noise when receiving a weak signal and so improve the picture quality.
- Press the **DNR** key repeatedly to select **DNR MIN**, **DNR MAX** or **DNR OFF**.
- Your selection appears for a moment on top of the screen.
- DNR MIN** offers you an optimum picture quality, and it is the most ideal setting for signals of normal strength.
- DNR MAX** is not necessary when the picture quality is good.

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

### Multi-Pip

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

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



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



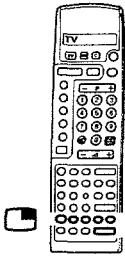
Never perform a scan while recording a TV programme with a video recorder connected to **EXTERNAL 1** or 2 and when having selected an option in the **Recording Source** menu since the scan will be recorded on tape.

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

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

# Directions for use

## Pip - Picture in Picture



With pip, picture in picture, you can call up a little screen within the main TV screen. Thus at the same time you can watch two different programmes.  
The picture in the small screen has no sound.

### Switching pip on and off

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

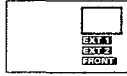


### Selecting pip programmes

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

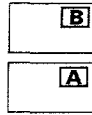
### Selecting pip connections

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



### Switching screens

- Press **[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.

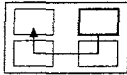


### Still Picture

- 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.

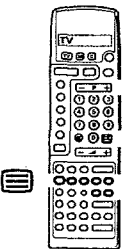


If the main screen is a full expanded picture format, the pip screen only moves to the upper left hand corner of the main screen.

### Pip Size

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

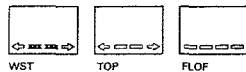
## Teletext



- P +

P+P

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 **[PIP]** 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 **[PIP]** again in order to switch off the teletext.
- The TV channel reappears.

## Easy Teletext system

The major advantages of this new teletext system are :

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

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

### Selecting a Teletext Page

With the digit keys .....OF With the options line.....

- Enter the desired page number with the digit keys.
- The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
- A message appears when you have entered a not existing or an incorrect page number. Page numbers beginning with 0 or 9 do not exist.
- Enter the correct page number.
- Select with the colour keys, corresponding to the coloured options at the bottom of the screen and depending on the teletext the selected TV channel transmits,  
- the previous <- or the following -> pages  
- the previous selected pages  
- another subject

### Quickly run through the teletext pages

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

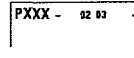
### Selecting the previous teletext page

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

### Selecting subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen. The coloured number in the first information line refers to the displayed subpage.

- The other subpage numbers appear in white as soon as the transmission has found them.
- Press **MENU** - to select the previous subpage.
- Press **MENU** + to select the following subpage.



### Selecting the table of contents

- Press the white colour key **a**.
- The table of contents appears.

### Special teletext functions

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

- Press **[HOLD]**.
- [HOLD]** appears in the first information line. The page counter stops seeking the entered page number.
- Enter another page number.
- [HOLD]** disappears.



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

- Press **[REVEAL]** to call up concealed information.
- Press **[REVEAL]** 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 information line appears briefly on your screen.
- Press **[X]** again.
- Teletext reappears.

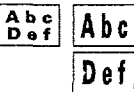


**Mix**

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

**Enlarge**

- Press **[ENLARGE]** to enlarge the top half of the teletext page.
- Press **[ENLARGE]** 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 **[SUBPAGE]**.
- Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
- Press **[SUBPAGE]** in order to cancel the subcode.

**Subtitles and newflashes**

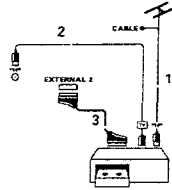
- Select the contents page (usually page 100).
- Select the page number for subtitles or newflashes.
- Subtitles or newflashes, if there are, appear at the bottom of the TV programme.

## Peripheral Equipment

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

### TV and video recorder

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



### S-VHS video recorder

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

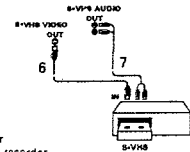
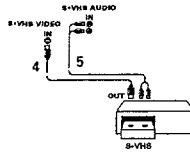
the S-VHS cables 4 and 5 and the S-VHS cables 6 and 7.

Do not connect an additional eurocable.

### OR

- Do you have a S-VHS video recorder with a S-VHS 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.



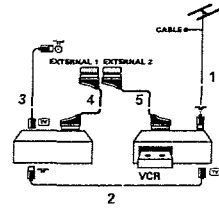
### Searching for and storing the test signal of the video recorder

- Unplug the aerial cable of the aerial socket "T" of your video recorder.
- Switch on your TV and video recorder.
- Press the **INSTALL** key at the right side of your TV, or enter the System Installation menu via the main menu.
- The **SYSTEM INSTALLATION** menu appears.
- Search for the test signal of your video recorder in the same way as you searched for and stored the TV channels. See Installation, Searching for and storing TV channels, p. 5.
- Store the test signal either under programme number 0 or between 50 and 99.
- Insert the aerial plug again into the aerial socket "T" of your video recorder after you have stored the test signal.

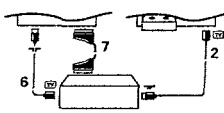
### TV, video recorder 1 and one or more peripherals

- Connect the aerial cables 1, 2 and 3 as shown alongside. A better picture quality is obtained if you connect the eurocables 4 and 5 additionally.

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



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

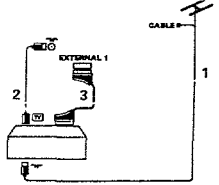


Only with a video recorder connected to EXTERNAL 2 it is possible to record a programme from your TV as well as from other connected equipment. See Recording with your video recorder, p. 31.

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

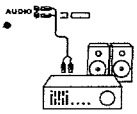
- Connect the aerial cables 1 and 2 as shown alongside. A better picture quality is obtained if you connect the eurocable 3 additionally. See also Installation, Photo CD/CDI, p. 9, if you connect a Photo CD/CDI equipment.

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



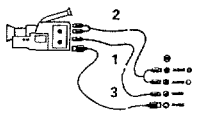
### Audio equipment

- You can listen to your TV sound via your audio equipment.
- Therefore connect the audio cables to the audio input of your equipment and to AUDIO L and R at the back of your TV.
- Press **RECALL** on the remote control.
- The loudspeakers of your TV are switched off.



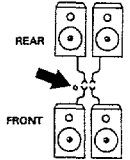
### Camera and camcorder

- Connect your camera or camcorder to **FRONT** at the right side of your TV.
- Connect the equipment to **VIDEO 1** and **AUDIO L2** for mono equipment.
- In the **SOUND** menu select mono sound. See Main Menu, Adjusting the sound, Sound mode, p. 13.
- Connect **AUDIO R2** 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 1 and **AUDIO** inputs 2.



### Extra loudspeakers

- To achieve a better sound effect you can connect 2 of 4 extra loudspeakers, min. 8 Ohm.
- See also Spatial and Surround sound, p. 12.
- Hold the connector clip pressed in and insert the ends of the wires into the openings. On the back of the TV it is indicated where you connect the **FRONT** and **REAR** loudspeakers.



In case of 2 extra loudspeakers:

- Connect them to **FRONT**..... **OR** Connect them to **REAR**.
- Press the loudspeaker switch on the back of the TV out.
- The internal loudspeakers of your TV are now switched off.
- You achieve a better front sound effect.
- You achieve a surround sound effect. A loudspeaker kit to achieve Surround Sound, containing two extra boxes only to be connected to **REAR** and 12 m wire can be purchased from your dealer. Do never connect the loudspeakers from these kit to **FRONT**.

In case of 4 extra loudspeakers:

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

### Headphone

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

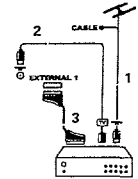


## Decoders

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

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

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

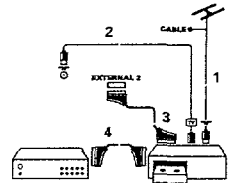


### Connecting a decoder without an aerial socket to the TV

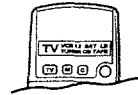
- Connect the decoder with your TV with a eurocable 3 only.

### Connecting the decoder to the video recorder

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



## Reproducing Picture and Sound



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

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

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

### Do you want to watch TV again ?

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

### b. from equipment connected with a eurocable

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

If this is not the case :

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

### Do you want to watch TV again ?

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

# Directions for use

## C. from a S-VHS recorder connected with S-VHS cables

- o Switch your TV on.
- o Press C repeatedly until the indication EXT2 appears on the screen.
- o Press repeatedly on the M key of the remote control until VCR1 appears in a grey block.
- o Switch your S-VHS recorder on.
- o 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

- o Switch your TV on.
- o Press C repeatedly until the indication FRONT appears on the screen.
- o Switch your equipment on.
- o The picture is reproduced.
- o Do you want to watch the TV picture again ?
- o 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

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

using a eurocable connected to the euroconnector EXTERNAL 2

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

using a eurocable connected to the euroconnector EXTERNAL 1

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

### 2. Recording a programme from connected peripheral equipment

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

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

## Table of TV frequencies.

**Frequenztafel der Fernsehsender.**  
**Liste des fréquences des émetteurs.**  
**Frequenztafel TV-zenders.**  
**Tabella delle frequenze delle trasmissioni.**  
**Lista de frecuencias.**

EUROPA		ITALY	
CHANNEL..FREQ (MHz)		CANALE..FREQ (MHz)	
E2	48.25	A	53.75
E3	53.25	B	52.25
E4	62.25	C	52.25
E5	67.25	D	57.25
E6	72.25	E	57.25
E7	77.25	F	57.25
E8	82.25	G	57.25
E9	87.25	H	57.25
E10	92.25	I	57.25
E11	97.25	J	57.25
E12	102.25	K	57.25
E13	107.25	L	57.25
E14	112.25	M	57.25
E15	117.25	N	57.25
E16	122.25	O	57.25
E17	127.25	P	57.25
E18	132.25	Q	57.25
E19	137.25	R	57.25
E20	142.25	S	57.25
E21	147.25	T	57.25
E22	152.25	U	57.25
E23	157.25	V	57.25
E24	162.25	W	57.25
E25	167.25	X	57.25
E26	172.25	Y	57.25
E27	177.25	Z	57.25
E28	182.25		
E29	187.25		
E30	192.25		
E31	197.25		
E32	202.25		
E33	207.25		
E34	212.25		
E35	217.25		
E36	222.25		
E37	227.25		
E38	232.25		
E39	237.25		
E40	242.25		
E41	247.25		
E42	252.25		
E43	257.25		
E44	262.25		
E45	267.25		
E46	272.25		
E47	277.25		
E48	282.25		
E49	287.25		
E50	292.25		
E51	297.25		
E52	302.25		
E53	307.25		
E54	312.25		
E55	317.25		
E56	322.25		
E57	327.25		
E58	332.25		
E59	337.25		
E60	342.25		
E61	347.25		
E62	352.25		
E63	357.25		
E64	362.25		
E65	367.25		
E66	372.25		
E67	377.25		
E68	382.25		
E69	387.25		
E70	392.25		
E71	397.25		
E72	402.25		
E73	407.25		
E74	412.25		
E75	417.25		
E76	422.25		
E77	427.25		
E78	432.25		
E79	437.25		
E80	442.25		
E81	447.25		
E82	452.25		
E83	457.25		
E84	462.25		
E85	467.25		
E86	472.25		
E87	477.25		
E88	482.25		
E89	487.25		
E90	492.25		
E91	497.25		
E92	502.25		
E93	507.25		
E94	512.25		
E95	517.25		
E96	522.25		
E97	527.25		
E98	532.25		
E99	537.25		
E100	542.25		
E101	547.25		
E102	552.25		
E103	557.25		
E104	562.25		
E105	567.25		
E106	572.25		
E107	577.25		
E108	582.25		
E109	587.25		
E110	592.25		
E111	597.25		
E112	602.25		
E113	607.25		
E114	612.25		
E115	617.25		
E116	622.25		
E117	627.25		
E118	632.25		
E119	637.25		
E120	642.25		
E121	647.25		
E122	652.25		
E123	657.25		
E124	662.25		
E125	667.25		
E126	672.25		
E127	677.25		
E128	682.25		
E129	687.25		
E130	692.25		
E131	697.25		
E132	702.25		
E133	707.25		
E134	712.25		
E135	717.25		
E136	722.25		
E137	727.25		
E138	732.25		
E139	737.25		
E140	742.25		
E141	747.25		
E142	752.25		
E143	757.25		
E144	762.25		
E145	767.25		
E146	772.25		
E147	777.25		
E148	782.25		
E149	787.25		
E150	792.25		
E151	797.25		
E152	802.25		
E153	807.25		
E154	812.25		
E155	817.25		
E156	822.25		
E157	827.25		
E158	832.25		
E159	837.25		
E160	842.25		
E161	847.25		
E162	852.25		
E163	857.25		
E164	862.25		
E165	867.25		
E166	872.25		
E167	877.25		
E168	882.25		
E169	887.25		
E170	892.25		
E171	897.25		
E172	902.25		
E173	907.25		
E174	912.25		
E175	917.25		
E176	922.25		
E177	927.25		
E178	932.25		
E179	937.25		
E180	942.25		
E181	947.25		
E182	952.25		
E183	957.25		
E184	962.25		
E185	967.25		
E186	972.25		
E187	977.25		
E188	982.25		
E189	987.25		
E190	992.25		
E191	997.25		

## Tabla de frecuencias de transmisión de televisión.

**Frekvens översikt.**  
**Frequenztafel.**  
**Tabell över TV-frekvenser.**  
**TV-tajukkiehen taulukko.**

FRANCE	
CANAL..FREQ (MHz)	
1	55.75
2	55.75
3	60.50
4	63.75
5	63.75
6	63.75
7	63.75
8	63.75
9	63.75
10	63.75
11	63.75
12	63.75
13	63.75
14	63.75
15	63.75
16	63.75
17	63.75
18	63.75
19	63.75
20	63.75
21	63.75
22	63.75
23	63.75
24	63.75
25	63.75
26	63.75
27	63.75
28	63.75
29	63.75
30	63.75
31	63.75
32	63.75
33	63.75
34	63.75
35	63.75
36	63.75
37	63.75
38	63.75
39	63.75
40	63.75
41	63.75
42	63.75
43	63.75
44	63.75
45	63.75
46	63.75
47	63.75
48	63.75
49	63.75
50	63.75
51	63.75
52	63.75
53	63.75
54	63.75
55	63.75
56	63.75
57	63.75
58	63.75
59	63.75
60	63.75
61	63.75
62	63.75
63	63.75
64	63.75
65	63.75
66	63.75
67	63.75
68	63.75
69	63.75
70	63.75
71	63.75
72	63.75
73	63.75
74	63.75
75	63.75
76	63.75
77	63.75
78	63.75
79	63.75
80	63.75
81	63.75
82	63.75
83	63.75
84	63.75
85	63.75
86	63.75
87	63.75
88	63.75
89	63.75
90	63.75
91	63.75
92	63.75
93	63.75
94	63.75
95	63.75
96	63.75
97	63.75
98	63.75
99	63.75
100	63.75

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

**D**  
 In Kabelfernsehanlagen können Frequenzen vorkommen, die nicht in den Frequenztabelle aufgeführt sind. Sie sich an Ihren Fachhändler oder Ihre Kabelfernsehgesellschaft, die Ihnen die zureichenden Frequenzen mitteilt.

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

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

**I**  
 La frequenza usata da una società di tele Distribuzione possono essere differenti da quelle sulla tabella. Consultate la società di tele Distribuzione o il vostro rivenditore per informazioni specifiche.

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

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

**DK**  
 Frekvenser benyttes af kabel operatører kan være forskellige fra disse. Kontakt deres kabel operator eller forhandler for nærmere information.

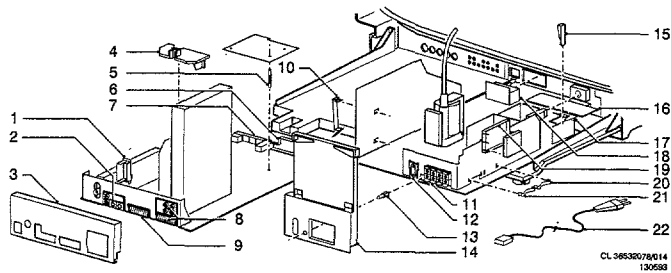
**N**  
 Frekvensene som benyttes på et kabelnett kan avvike fra frekvensene i tabellen. Kontakt ditt kabel-TV-beslag eller din radiohønders for nærmere opplysninger.

**S**  
 Frekvenserna som används i kabel-TV-nätet kan avvika från frekvenserna i tabellen. Kontakta ditt kabel-TV-beslag eller din radiohändare för vidare information.

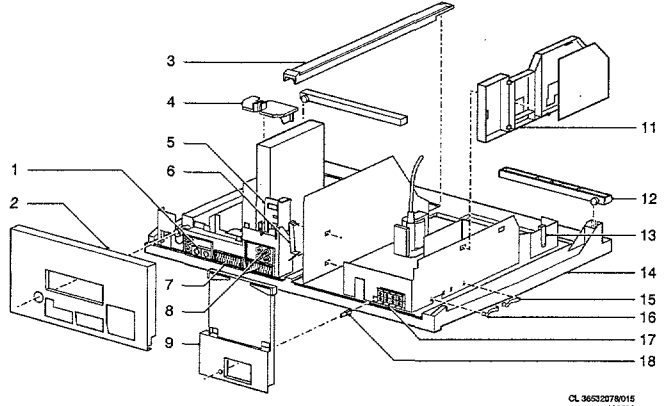
**SF**  
 Kappellyhdyden käyttömit tajuudet voivat poiketa taulukossa olevista tajuukoista. Tarfist tiedot saat kappellyhdyksen tai muuttajasta.

EUROPA		ITALY		CANAL..FREQ (MHz)		Canaux Interbande	
CHANNEL..FREQ (MHz)		CANALE..FREQ (MHz)					
E5	175.25	O	175.25	6	174.0	8	114.75
E6	182.25	E	183.75	8	184.0	C	124.75
E7	188.25	F	183.75	7	182.0	O	140.75
E8	198.25	G	201.25	8	200.0	E	150.75
E9	208.25	H	210.25	9	208.0	F	164.75
E10	218.25	I	217.25	10	214.0	G	174.75
E11	228.25					H	184.75
E12	238.25					I	200.75
E13	248.25					J	212.75
E14	258.25					K	224.75
E15	268.25					L	234.75
E16	278.25					M	244.75
E17	288.25					N	260.75
E18	298.25					O	272.75
E19	308.25					P	284.75
E20	318.25					Q	294.75
E21	328.25</						

# 10. Exploded view & Mechanical parts list



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



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

4822 265 30525	2P male white	2020	4822 122 31414	10nF 100V	2272	4f	
4822 265 20541	2P male black	2021	4822 122 31414	10nF 100V	2302	4f	
4822 265 31102	6P male	2022	4822 122 31414	10nF 100V	2303	4f	
4822 265 41328	10P male	2023	5322 122 33446	3,3nF 10% 63V	2308	4f	
4822 290 40295	7P male	2024	5322 122 33446	3,3nF 10% 63V	2321	4f	
4822 265 40818	8P male	2025	4822 122 10167	22nF 30% 25V	2330	4f	
4822 265 40442	10P male	2026	4822 122 32927	220nF +80-20% 50V	2331	4f	
4822 265 20509	2P grey	2027	4822 122 32927	220nF +80-20% 50V	2361	4f	
4822 267 40985	6P male	2028	4822 122 32927	220nF +80-20% 50V	2365	5f	
4822 264 40207	3P male	2029	4822 122 32927	220nF +80-20% 50V	2372	5f	
4822 267 41018	2P red	2030	4822 126 11175	22pF 5% 50V	2376	4f	
4822 265 40596	2P male	2031	4822 126 11175	22pF 5% 50V	2381	4f	
4822 265 20512	2P green	2032	4822 122 31797	22nF 10% 63V	2382	4f	
4822 265 20511	2P blue	2033	4822 122 10167	22nF 30% 25V	2386	5f	
4822 265 31093	6P	2034	4822 122 32442	10nF 50V	2401	4f	
4822 265 41326	10P	2035	4822 122 31775	680pF 2% 63V	2402	4f	
4822 265 30389	2P male	2035	4822 122 32566	3,9nF 10% 63V	2403	5f	
4822 267 30871	2P female	2036	4822 122 31773	560pF 2% 63V	2404	4f	
4822 266 20163	2P black	2037	4822 122 31773	560pF 2% 63V	2405	4f	
		2038	4822 122 31644	2,2nF 10% 63V	2406	4f	
<b>Various</b>		2039	4822 122 31765	100pF 2% 63V	2407	5f	
		2040	4822 122 32927	220nF +80-20% 50V	2408	4f	
4822 466 93029	insulation plate	2041	4822 122 32927	220nF +80-20% 50V	2409	4f	
4822 255 40527	insulator	2043	4822 122 32927	220nF +80-20% 50V	2410	4f	
5322 390 20011	vet silic.P4 20GR	2045	4822 122 32927	220nF +80-20% 50V	2411	4f	
4822 492 70143	spring 10X33mm	2046	4822 122 32927	220nF +80-20% 50V	2412	4f	
4822 492 62076	spring fix transistor	2047	4822 122 32927	220nF +80-20% 50V	2413	4f	
4822 492 70788	spring fix IC	2049	4822 122 31765	100pF 2% 63V	2415	4f	
4822 492 70789	spring fix transistor	2050	4822 124 42362	33µF 20% 16V	2416	4f	
4822 290 60812	socket for ext. loudsp.	2051	4822 124 42362	33µF 20% 16V	2417	4f	
4822 267 20417	socket for squeeters	2052	4822 124 42362	33µF 20% 16V	2418	4f	
4822 276 13094	switch loudsp. ON/OFF	2053	4822 124 42362	33µF 20% 16V	2419	4f	
4822 256 30496	fuse holder	2054	4822 122 31773	560pF 2% 63V	2450	4f	
4822 276 12998	mains switch	2055	4822 122 31773	560pF 2% 63V	2451	4f	
4822 310 31932	SOPS repair kit	2056	4822 122 31773	560pF 2% 63V	2452	4f	
4822 320 20162	EHT cable 28"-32"	2057	4822 122 31773	560pF 2% 63V	2453	4f	
4822 320 11105	focus cable 28"	2058	4822 122 31773	560pF 2% 63V	2454	4f	
4822 320 11106	focus cable 32"	2059	4822 122 31773	560pF 2% 63V	2455	4f	
4822 320 11104	focus cable 32"	2060	4822 122 32142	270pF 2% 63V	2456	4f	
4822 320 11103	focus cable 32"	2065	4822 126 11156	684nF 20%	2457	4f	
4822 320 20181	EHT cable 36"	2066	4822 126 11156	684nF 20%	2458	4f	
4822 320 20178	focus cable red 36"	2070	4822 124 40272	33µF 20% 16V	2459	4f	
4822 320 20179	focus cable black 36"	2071	4822 124 23489	33µF 20% 25V	2502	4f	
4822 320 20213	Vg2 cable 32"	2072	4822 124 41584	100µF 20% 10V	2503	4f	
4822 212 23892	NTSC panel	2073	4822 124 21212	15µF 20% 40V	2504	4f	
1010	4822 102 90038	DAF unit 32"	2074	5322 122 31647	1nF 10% 63V	2504	4f
1026	4822 101 11151	DAF unit 36"	2200	4822 121 43819	680nF 10% 250V	2507	4f
1200	4822 070 33151	fuse 3,15A	2203	4822 121 40487	100nF 10% 400V	2509	4f
1595	4822 218 21041	EHT bleeder 36"	2214	4822 124 23492	220µF 50% 385V	2509	4f
2000	4822 126 11823	270pF 10% 500V	2215	4822 122 33665	3,3nF 20% 125V	2510	4f
2001	4822 122 31784	4,7nF 10% 50V	2216	4822 126 12274	1500pF 10% 2kV	2510	4f
2002	4822 122 31784	4,7nF 10% 50V	2231	4822 126 11157	470pF 10% 500V	2511	4f
2003	4822 126 11175	22pF 5% 50V	2232	4822 124 40785	3300µF 20% 25V	2512	4f
2007	4822 122 31797	22nF 10% 63V	2233	4822 126 11157	470pF 10% 500V	2513	4f
2008	4822 122 31797	22nF 10% 63V	2234	4822 124 40785	3300µF 20% 25V	2517	4f
2009	4822 126 11175	22pF 5% 50V	2235	4822 126 11157	470pF 10% 500V	2518	4f
2010	5322 122 33446	3,3nF 10% 63V	2237	4822 126 12276	2200pF 10% 2kV	2519	4f
2011	4822 122 31775	680pF 2% 63V	2238	4822 124 22583	47µF 160V	2520	4f
2011	4822 122 32566	3,9nF 10% 63V	2240	4822 124 42183	1000µF 20% 63V	2521	4f
2012	4822 122 32927	220nF +80-20% 50V	2254	4822 126 11496	120pF 5% 2kV	2522	4f
2013	4822 122 32927	220nF +80-20% 50V	2255	4822 122 32142	270pF 2% 63V	2523	4f
2014	5322 122 33446	3,3nF 10% 63V	2258	5322 121 42502	390nF 5% 63V	2523	5f
2015	4822 124 42109	22µF 10% 50V	2260	4822 122 31781	1500pF 10% 50V	2524	4f
2016	4822 124 42109	22µF 10% 50V	2261	5322 124 21189	100µF 20% 40V	2524	4f
2018	4822 122 31797	22nF 10% 63V	2262	4822 122 31727	470pF 2% 63V	2525	4f
2019	4822 122 31414	10nF 100V	2263	4822 124 80507	330µF 20%	2526	4f
			2270	4822 124 41584	100µF 20% 10V	2527	4f
						2529	4f

# Spare parts list / Stückliste / Liste des pièces

## Large signal panel A B G FL1/2.14

00V	2272	4822 122 33496	100nF 10% 63V	2530	4822 122 31797	22nF 10% 63V	3069	4822 051 10622	6k2 2% 0,25W	3374	4822 116 52301	75k 5% 0,5W
00V	2302	4822 122 31965	220pF 2% 63V	2531	4822 121 40516	22nF 10% 250V	3072	4822 051 10479	47Ω 2% 0,25W	3375▲	4822 051 10242	2k4 2% 0,25W
00V	2303	4822 122 31767	150pF 2% 63V	2533	5322 122 32818	2,2nF 10% 100V	3073	4822 051 10223	22k 2% 0,25W	3376	4822 116 52175	100Ω 5% 0,5W
0% 63V	2308	4822 122 32891	68nF 10% 63V	2534	4822 126 12761	1,5nF 10% 500V	3074	4822 051 10103	10k 2% 0,25W	3378	4822 051 10101	100Ω 2% 0,25W
0% 63V	2321	4822 121 51319	1μF 10% 63V	2535	4822 124 23488	1000μF 20% 35V	3201▲	4822 053 21475	4M7 5% 0,5W	3380	4822 051 10152	1k5 2% 0,25W
0% 25V	2330	4822 122 31784	4,7nF 10% 50V	2536	4822 126 12761	1,5nF 10% 500V	3202▲	4822 053 21825	8M2 5% 0,5W	3381	4822 051 10152	1k5 2% 0,25W
+80-20%	2331	4822 122 32891	68nF 10% 63V	2537	4822 124 80037	1000μF 20% 16V	3204▲	4822 116 40138	PTC	3382	4822 051 10103	10k 2% 0,25W
+80-20%	2351	4822 121 41854	150nF 5% 63V	2541	4822 124 23489	33μF 20% 25V	3209▲	4822 113 80575	1Ω 5% 0,5W	3383	4822 051 10103	10k 2% 0,25W
+80-20%	2360	4822 122 31981	33nF 5% 50V	2542	4822 124 22466	1μF 20% 50V	3074	4822 051 10103	10k 2% 0,25W	3387	4822 051 10223	22k 2% 0,25W
+80-20%	2361	4822 121 42589	82nF 5% 63V	2543	4822 124 23495	10μF 20% 25V	3211	4822 116 52239	120k 5% 0,5W	3402	4822 051 10562	5k6 2% 0,25W
+80-20%	2365	5322 122 32838	82nF 10% 63V	2544▲	4822 124 41525	100μF 20% 25V	3212	4822 116 52234	100k 5% 0,5W	3403	4822 051 10229	22Ω 2% 0,25W
+80-20%	2372	5322 121 42502	390nF 5% 63V	2545	4822 122 33865	1nF 10% 500V	3213	4822 051 10823	82k 2% 0,25W	3404	4822 051 10182	1k8 2% 0,25W
+80-20%	2376	4822 124 40272	33μF 20% 16V	2546	4822 126 11725	1μF 20% 50V	3216▲	4822 115 90309	56Ω 10% 5W	3405	4822 051 10333	33k 2% 0,25W
+80-20%	2380	4822 122 33496	100nF 10% 63V	2547	4822 122 32566	3,9nF 10% 63V	3235▲	4822 052 10108	1Ω 5% 0,33W	3406	4822 100 11483	10k 30% lin
+80-20%	2381	4822 122 33496	100nF 10% 63V	2548	4822 126 11725	1μF 20% 50V	3238	4822 116 52268	300k 5% 0,5W	3407	4822 051 10561	560Ω 2% 0,25W
% 50V	2382	4822 122 33496	100nF 10% 63V	2551	4822 124 40195	150μF 20% 16V	3238	4822 116 52234	100k 5% 0,5W	3408	4822 051 10563	56k 2% 0,25W
% 50V	2386	5322 122 31647	1nF 10% 63V	2600	4822 124 41577	4,7μF 20% 50V	3239	4822 116 52268	300k 5% 0,5W	3409	4822 116 52265	270k 5% 0,5W
% 50V	2401	4822 122 32542	47nF 10% 63V	2603	4822 122 33496	100nF 10% 63V	3239	4822 116 52234	100k 5% 0,5W	3410	4822 051 10912	9k1 2% 0,25W
% 50V	2402	4822 124 41577	4,7μF 20% 50V	2605	4822 122 31781	150pF 10% 50V	3240	4822 116 52268	300k 5% 0,5W	3458▲	4822 116 83332	1Ω 1% 5W
% 50V	2403	5322 124 41431	22μF 20% 35V	2606	4822 122 32542	47nF 10% 63V	3240	4822 116 52234	100k 5% 0,5W	3458▲	4822 116 80676	1Ω 5% 0,5W
% 63V	2404	4822 124 41577	4,7μF 20% 50V	2606	4822 122 32541	27nF 10% 63V	3241	4822 113 80635	3,3Ω 10% 5W	3459▲	4822 116 80176	1Ω 5% 0,5W
% 63V	2405	4822 122 32542	47nF 10% 63V	2606	4822 122 31797	22nF 10% 63V	3242	4822 051 10122	1k2 2% 0,25W	3459▲	4822 116 80676	1Ω 5% 0,5W
% 63V	2406	4822 121 51091	1,2nF 2% 250V	2609	4822 121 51243	56nF 5% 50V	3243	4822 116 52226	560Ω 5% 0,5W	3460▲	4822 053 12181	180Ω 5% 3W
% 63V	2407	5322 122 31647	1nF 10% 63V	2609	5322 121 42386	100nF 5% 63V	3244	4822 051 10151	150Ω 2% 0,25W	3460▲	4822 053 11331	330Ω 5% 2W
% 63V	2408	4822 122 31172	180pF 10% 500V	2610	4822 124 41576	2,2μF 20% 50V	3245	4822 116 52226	560Ω 5% 0,5W	3460▲	4822 053 11271	270Ω 5% 2W
+80-20%	2409	4822 122 31797	22nF 10% 63V	2611	4822 124 80603	4,7μF 20% 50V	3247	4822 051 52202	2k2 1% 0,125W	3461	4822 116 80176	1Ω 5% 0,5W
+80-20%	2410	4822 121 41854	150nF 5% 63V	2612	4822 124 80603	4,7μF 20% 50V	3248	4822 051 52202	2k2 1% 0,125W	3462	4822 116 80176	1Ω 5% 0,5W
+80-20%	2411	4822 121 41854	150nF 5% 63V	2613	4822 122 31784	4,7nF 10% 50V	3249	4822 116 52258	220k 5% 0,5W	3463	5322 116 82222	1Ω 5% 0,5W
+80-20%	2412	4822 122 31173	220pF 10% 500V	2615	4822 122 33498	2,7nF 10% 63V	3250▲	4822 116 52196	62Ω 5% 0,5W	3464	4822 053 10271	27kΩ 5% 1W
+80-20%	2413	4822 122 31768	180pF 2% 63V	2801	4822 122 32153	1,8nF 10% 63V	3250▲	4822 116 52199	68Ω 5% 0,5W	3464	4822 053 10102	1k 5% 1W
+80-20%	2415	4822 122 32542	47nF 10% 63V	2805	4822 124 40435	10μF 20% 50V	3251	4822 051 10102	1k 2% 0,25W	3465	4822 051 10681	680Ω 2% 0,25W
+80-20%	2416	4822 122 33496	100nF 10% 63V	2806	4822 122 31797	22nF 10% 63V	3252	4822 116 52258	220k 5% 0,5W	3467	4822 100 20166	10k 30% lin
+80-20%	2417	4822 122 32808	1,2nF 10% 63V				3253	4822 116 82738	10k 10%	3468	4822 053 12181	180Ω 5% 3W
+80-20%	2418	4822 122 31797	2,2nF 10% 63V				3255	4822 116 52243	1k5 5% 0,5W	3468	4822 053 12331	330Ω 5% 3W
+80-20%	2419	4822 124 40849	330μF 20% 16V				3266	4822 051 10151	150Ω 2% 0,25W	3473	4822 051 10109	10Ω 2% 0,25W
% 63V	2450▲	4822 122 32442	10nF 50V	3000	4822 051 10912	9k1 2% 0,25W	3267	4822 051 10101	100Ω 2% 0,25W	3473	4822 051 10152	1k5 2% 0,25W
% 16V	2451	5322 122 31647	1nF 10% 63V	3001	4822 051 10912	9k1 2% 0,25W	3268	4822 115 10129	27Ω 10% 5W	3479	4822 051 10683	68k 2% 0,25W
% 16V	2452	4822 124 41716	220μF 20% 35V	3004	4822 051 10104	100k 2% 0,25W	3270	4822 051 10108	1Ω 5% 0,25W	3480	4822 116 52234	100k 5% 0,5W
% 16V	2453	4822 122 33496	100nF 10% 63V	3005	4822 051 10104	100k 2% 0,25W	3271	4822 053 10399	39Ω 5% 1W	3481	4822 051 10102	1k 2% 0,25W
% 16V	2455	4822 122 31746	1000pF 2% 63V	3006	4822 051 10204	200k 2% 0,25W	3272	4822 051 51201	120Ω 1% 0,125W	3482	4822 051 10229	22Ω 2% 0,25W
% 16V	2456	4822 124 80457	3300μF 20% 35V	3009	4822 051 10204	200k 2% 0,25W	3273	4822 051 10472	4k7 2% 0,25W	3484	4822 051 10224	220k 2% 0,25W
% 63V	2456	4822 124 80103	4700μF 20% 25V	3011	4822 051 10203	20k 2% 0,25W	3275	4822 116 52206	120Ω 5% 0,5W	3485	4822 051 10102	1k 2% 0,25W
% 63V	2457	4822 124 42249	1μF 10% 50V	3012	4822 051 10203	20k 2% 0,25W	3300	4822 053 10753	75k 5% 1W	3500	4822 116 52224	470Ω 5% 0,5W
% 63V	2458	4822 122 31797	22nF 10% 63V	3013	4822 116 52268	300k 5% 0,5W	3304	4822 051 10473	47k 2% 0,25W	3501	4822 116 52274	36k 5% 0,5W
% 63V	2459	4822 122 33496	100nF 10% 63V	3014	4822 116 52268	300k 5% 0,5W	3305	4822 051 10113	11k 2% 0,25W	3502	4822 116 52306	9k1 5% 0,5W
0%	2460	4822 122 33496	100nF 10% 63V	3016▲	4822 052 10828	8Ω 2% 0,33W	3306	4822 051 10823	82k 2% 0,25W	3503	4822 116 52306	9k1 5% 0,5W
0%	2480	4822 124 23495	10μF 20% 25V	3021▲	4822 052 10828	8Ω 2% 0,33W	3308	4822 053 12151	150Ω 5% 3W	3504	4822 116 52176	10Ω 5% 0,5W
% 16V	2502	4822 121 41689	100nF 10% 250V	3022▲	4822 052 10828	8Ω 2% 0,33W	3309	4822 051 10103	10k 2% 0,25W	3505	4822 116 52229	750Ω 5% 0,5W
% 16V	2503	4822 126 11823	270pF 10% 500V	3027	4822 051 10103	10k 2% 0,25W	3310	4822 116 52184	18Ω 5% 0,5W	3506	4822 053 11108	1Ω 5% 2W
% 25V	2504	4822 126 12084	390pF 10% 2kV	3028	4822 051 10103	10k 2% 0,25W	3311	4822 051 10471	470Ω 2% 0,25W	3507	4822 116 52184	18Ω 5% 0,5W
% 40V	2504▲	4822 126 12272	1000pF 10% 2kV	3029	4822 051 10123	12k 2% 0,25W	3312	4822 051 10101	100Ω 2% 0,25W	3508▲	4822 116 60523	2k2 10% 5W
% 40V	2504▲	4822 126 12273	1200pF 10% 2kV	3030	4822 051 10123	12k 2% 0,25W	3313	4822 116 52184	18Ω 5% 0,5W	3508	4822 116 82773	1k8 10% 5W
% 250V	2507	4822 121 41673	220nF 10% 100V	3031	4822 051 10102	1k 2% 0,25W	3314	4822 116 52175	100Ω 5% 0,5W	3508	4822 116 83003	1k5 10% 5W
% 400V	2509	4822 122 40112	560pF 20% 500V	3032	4822 051 10102	1k 2% 0,25W	3317	4822 051 10682	6k8 2% 0,25W	3509	4822 053 20104	100k 5% 0,25W
% 385V	2509	4822 122 31174	2,7nF 10% 500V	3033	4822 116 52244	15k 5% 0,5W	3320	4822 051 10471	470Ω 2% 0,25W	3510	4822 053 10681	680Ω 5% 1W
% 125V	2510	4822 126 12083	1nF 10% 500V	3034	4822 051 10472	4k7 2% 0,25W	3321	4822 051 10471	470Ω 2% 0,25W	3511▲	4822 052 10128	1Ω 2% 0,33W
10% 2kV	2510	4822 126 11494	2,2nF 10% 500V	3035	4822 051 10153	15k 2% 0,25W	3322	4822 051 10471	470Ω 2% 0,25W	3512	4822 051 10331	330Ω 2% 0,25W
% 500V	2511	4822 124 41739	47μF 20% 160V	3036	4822 051 10152	1k5 2% 0,25W	3331	4822 116 52267	30k 5% 0,5W	3513	4822 100 11319	4k7 30% lin
20% 25V	2512	4822 124 40435	10μF 20% 50V	3037	4822 051 10152	1k5 2% 0,25W	3332	4822 116 52233	10k 5% 0,5W	3514	4822 116 52197	

0,5W	3529	4822 051 10204	200k 2% 0,25W
0,25W	3530	4822 051 10474	470k 2% 0,25W
0,5W	3531	4822 116 52274	36k 5% 0,5W
0,25W	3532	4822 050 23301	330Ω 1% 0,6W
0,25W	3532	4822 116 52249	1k8 5% 0,5W
0,25W	3533	4822 050 23301	330Ω 1% 0,6W
0,25W	3534	4822 052 10128	1Ω 5% 0,33W
0,25W	3535	4822 052 10128	1Ω 2% 0,33W
0,25W	3536	4822 053 10331	330Ω 5% 1W
0,25W	3537	4822 116 52197	56Ω 5% 0,5W
0,25W	3538	4822 050 21303	13k 1% 0,6W
0,25W	3538	4822 050 28202	8k2 1% 0,6W
0,25W	3539	4822 052 10108	1Ω 5% 0,33W
0,25W	3540	4822 116 52267	30k 5% 0,5W
0,25W	3541	4822 116 52272	330k 5% 0,5W
0,25W	3542	4822 051 10104	100k 2% 0,25W
0,5W	3543	4822 051 20222	2k2 5% 0,1W
0,25W	3543	4822 051 10242	2k4 2% 0,25W
0,5W	3544	4822 051 10393	39k 2% 0,25W
0,5W	3545	4822 116 52208	130Ω 5% 0,5W
0,5W	3546	4822 051 10104	100k 2% 0,25W
0,5W	3547	4822 051 10109	10Ω 2% 0,25W
3W	3548	4822 051 10392	3k9 2% 0,25W
2W	3549	4822 051 10124	120k 2% 0,25W
2W	3550	4822 051 10132	1k3 2% 0,25W
0,5W	3551	4822 051 10151	150Ω 2% 0,25W
0,5W	3552	4822 116 52207	1k2 5% 0,5W
0,5W	3553	4822 116 52207	1k2 5% 0,5W
1W	3555	4822 113 80592	150Ω 10% 5W
1W	3556	4822 053 11108	1Ω 5% 2W
0,25W	3558	4822 051 10109	10Ω 2% 0,25W
0,25W	3559	4822 051 10392	3k9 2% 0,25W
3W	3560	4822 113 80586	82Ω 10% 5W
3W	3561	4822 051 58201	820Ω 1% 0,125W
0,25W	3562	4822 051 52202	2k2 1% 0,125W
0,25W	3563	4822 116 52175	100Ω 5% 0,5W
0,25W	3564	4822 051 10569	56Ω 2% 0,25W
0,5W	3570	4822 051 10122	1k2 2% 0,25W
0,25W	3570	4822 051 10272	2k7 2% 0,25W
0,25W	3601	4822 051 10104	100k 2% 0,25W
0,25W	3602	4822 100 11213	22k 30% lin
0,25W	3603	4822 051 10163	16k 2% 0,25W
0,5W	3603	4822 051 10123	12k 2% 0,25W
0,5W	3604	4822 051 10514	510k 2% 0,25W
0,5W	3604	4822 051 10624	620k 2% 0,25W
0,5W	3605	4822 051 10103	10k 2% 0,25W
0,5W	3605	4822 051 10203	20k 2% 0,25W
0,5W	3606	4822 051 10223	22k 2% 0,25W
2W	3607	4822 100 11213	22k 30% lin
0,5W	3608	4822 051 10103	10k 2% 0,25W
5W	3609	4822 051 10473	47k 2% 0,25W
5W	3610	4822 051 10472	4k7 2% 0,25W
5W	3611	4822 116 52256	2k2 5% 0,5W
0,25W	3612	4822 116 52283	4k7 5% 0,5W
1W	3613	4822 051 10202	2k 2% 0,25W
0,33W	3614	4822 116 52249	1k8 5% 0,5W
0,25W	3615	4822 116 52224	470Ω 5% 0,5W
0,25W	3616	4822 051 10332	3k3 2% 0,25W
0,5W	3617	4822 051 20222	2k2 5% 0,1W
0,33W	3618	4822 051 10683	68k 2% 0,25W
0,33W	3619	4822 051 20222	2k2 5% 0,1W
0,5W	3620	4822 051 10622	6k2 2% 0,25W
0,5W	3620	4822 051 10682	6k8 2% 0,25W
0,5W	3621	4822 051 10114	110k 2% 0,25W
0,5W	3622	4822 116 80176	1Ω 5% 0,5W
0,5W	3623	4822 116 80176	1Ω 5% 0,5W
3W	3627	4822 051 10202	2k 2% 0,25W
0,5W	3628	4822 051 10473	47k 2% 0,25W
0,5W	3629	4822 051 10474	470k 2% 0,25W
0,5W	3629	4822 051 10624	620k 2% 0,25W
0,5W	3630	4822 051 10103	10k 2% 0,25W
0,25W	3632	4822 051 10134	130k 2% 0,25W
4W	3633	4822 051 10271	270Ω 2% 0,25W
5W	3633	4822 051 10102	1k 2% 0,25W

0,25W	3634	4822 051 10473	47k 2% 0,25W
0,25W	3650	4822 051 20183	18k 5% 0,1W
0,25W	3651	4822 051 10102	1k 2% 0,25W
0,25W	3652	4822 051 10822	8k2 2% 0,25W
0,25W	3653	4822 051 20183	18k 5% 0,1W
0,25W	3653	4822 051 10104	100k 2% 0,25W
0,25W	3654	4822 051 20222	2k2 5% 0,1W
0,25W	3655	4822 051 20222	2k2 5% 0,1W
0,25W	3656	4822 051 10103	10k 2% 0,25W
0,25W	3800	4822 116 52289	5k6 5% 0,125W
0,25W	3801	4822 051 10184	180k 2% 0,25W
0,25W	3802	4822 051 10104	100k 2% 0,25W
0,25W	3803	4822 051 20222	2k2 5% 0,1W
0,25W	3804	4822 051 10103	10k 2% 0,25W
0,25W	3805	4822 111 41424	22Ω 5% 0,3W
0,25W	3806	4822 051 20222	2k2 5% 0,1W
0,25W	3807	4822 116 52256	2k2 5% 0,5W
0,25W	3809	4822 051 10104	100k 2% 0,25W
0,25W	3810	4822 116 52176	10Ω 5% 0,5W
0,25W	3811	4822 116 52215	220Ω 5% 0,5W
<b>Jumper</b>			
0,25W	4000	4822 051 10008	0Ω 5% 0,25W
0,25W	4001	4822 051 10008	0Ω 5% 0,25W
0,25W	4002	4822 051 10008	0Ω 5% 0,25W
0,25W	4003	4822 051 10008	0Ω 5% 0,25W
0,25W	4004	4822 051 10008	0Ω 5% 0,25W
0,25W	4006	4822 051 10008	0Ω 5% 0,25W
0,25W	4007	4822 051 10008	0Ω 5% 0,25W
0,25W	4061	4822 051 10008	0Ω 5% 0,25W
0,25W	4074	4822 051 10008	0Ω 5% 0,25W
0,25W	4268	4822 051 10008	0Ω 5% 0,25W
0,25W	4274	4822 051 10008	0Ω 5% 0,25W
0,25W	4402	4822 051 10008	0Ω 5% 0,25W
0,25W	4403	4822 051 10008	0Ω 5% 0,25W
0,25W	4404	4822 051 10008	0Ω 5% 0,25W
0,25W	4406	4822 051 10008	0Ω 5% 0,25W
0,25W	4407	4822 051 10008	0Ω 5% 0,25W
0,25W	4408	4822 051 10008	0Ω 5% 0,25W
0,25W	4409	4822 051 10008	0Ω 5% 0,25W
0,25W	4511	4822 051 10008	0Ω 5% 0,25W
0,25W	4512	4822 051 10008	0Ω 5% 0,25W
0,25W	4530	4822 051 10008	0Ω 5% 0,25W
0,25W	4531	4822 051 10008	0Ω 5% 0,25W
0,25W	4533	4822 051 10008	0Ω 5% 0,25W
0,25W	4601	4822 051 10008	0Ω 5% 0,25W
0,25W	4802	4822 051 10008	0Ω 5% 0,25W
0,25W	4803	4822 051 10008	0Ω 5% 0,25W
0,25W	4804	4822 051 10008	0Ω 5% 0,25W
<b>5202</b> 4822 157 10291 mainsfilter CU28D5			
<b>5230</b> 4822 148 81192 SOPS transf.			
<b>5237</b> 4822 526 10494 ferrite bead			
<b>5241</b> 4822 157 62412 27μH 10%			
<b>5255</b> 4822 148 81225 μSOPS transf.			
<b>5260</b> 4822 526 10494 ferrite bead			
<b>5308</b> 4822 157 63302 150μH 10%			
<b>5310</b> 4822 157 63301 1μH 15%			
<b>5381</b> 4822 157 52265 100μH 10%			
<b>5503</b> 4822 157 63252 line driver			
<b>5505</b> 4822 157 51588 0,82μH 20%			
<b>5506</b> 4822 157 51588 0,82μH 20%			
<b>5507</b> 4822 157 63506 0,09μH			
<b>5510</b> 4822 157 62886 33μH 10%			
<b>5511</b> 4822 157 52407 39μH 7,5%			
<b>5514</b> 4822 157 63256 DC-shift			
<b>5520</b> 4822 157 63846 linearity corr. 28"			
<b>5520</b> 4822 156 50091 linearity corr. 32"			
<b>5520</b> 4822 157 63514 linearity coil 36"			
<b>5521</b> 4822 157 63847 bridge coil			
<b>5521</b> 4822 157 63512 linearity corr. 36"			
<b>5524</b> 4822 526 10494 ferrite bead			

0,25W	5525	4822 157 52392	27μH 10%
0,25W	5526	4822 157 63513	E/W coil
0,25W	5527	4822 157 70472	0,56μH 20%
0,25W	5534	4822 158 10551	27μH 7,5%
0,25W	5543	4822 157 62412	27μH 10%
0,25W	5555	4822 140 10444	L.O.T. 28"
0,25W	5555	4822 140 10432	L.O.T. 32"
0,25W	5555	4822 140 10426	L.O.T. 36"
0,25W	6000	4822 130 80446	LL4148
0,25W	6001	4822 130 80446	LL4148
0,25W	6008	4822 209 73095	P4KE30C-7000
0,25W	6010	4822 130 80446	LL4148
0,25W	6011	4822 130 80446	LL4148
0,25W	6012	4822 130 80446	LL4148
0,25W	6016	4822 130 80446	LL4148
0,25W	6017	4822 130 80446	LL4148
0,25W	6021	4822 130 80446	LL4148
0,25W	6201	4822 130 80446	LL4148
0,25W	6210	4822 130 33887	GP15J-16
0,25W	6211	4822 130 33887	GP15J-16
0,25W	6212	4822 130 33887	GP15J-16
0,25W	6213	4822 130 33887	GP15J-16
0,25W	6216	4822 130 42606	BYD33J
0,25W	6220	4822 130 33887	GP15J-16
0,25W	6221	4822 130 33887	GP15J-16
0,25W	6230	4822 130 33529	BY229F-200
0,25W	6232	4822 130 33529	BY229F-200
0,25W	6235	4822 130 81104	MA689
0,25W	6237	4822 130 41602	BYW95C/20
0,25W	6238	4822 130 41602	BYW95C/20
0,25W	6246	4822 130 82347	LLZ-F6V8
0,25W	6251	4822 130 80954	LLZ-C5V6
0,25W	6260	4822 130 80446	BAS32L
0,25W	6262	4822 130 83121	BYD73C
0,25W	6266	4822 130 34278	BZX79-F6V8
0,25W	6272	4822 130 34173	BZX55-B5V6
0,25W	6280	4822 130 30621	1N4148
0,25W	6302	4822 130 80446	LL4148
0,25W	6303	4822 130 80446	LL4148
0,25W	6304	4822 130 81637	PMLL4148L
0,25W	6305	4822 130 82334	BAS85
0,25W	6306	4822 130 34499	BZX79-C20
0,25W	6308	4822 130 42488	BYD33D
0,25W	6312	4822 130 42488	BYD33D
0,25W	6314	4822 130 80446	LL4148
0,25W	6315	4822 130 80446	LL4148
0,25W	6318	4822 130 83086	LL4150
0,25W	6319	5322 130 34898	BZD23-C5V6
0,25W	6331	4822 130 30621	1N4148
0,25W	6349	4822 130 80446	LL4148
0,25W	6350	4822 130 80446	LL4148
0,25W	6351	4822 130 30621	1N4148
0,25W	6352	4822 130 80446	LL4148
0,25W	6353	4822 130 80446	LL4148
0,25W	6355	4822 130 80446	LL4148
0,25W	6356	4822 130 82345	LLZ-C22
0,25W	6357	4822 130 80446	LL4148
0,25W	6370	4822 130 81512	LLZ-C6V2
0,25W	6371	4822 130 80446	LL4148
0,25W	6372	4822 130 80446	LL4148
0,25W	6373	4822 130 82583	LLZ-C9V1
0,25W	6375	4822 130 80446	LL4148
0,25W	6376	4822 130 80922	LLZ-C18
0,25W	6403	4822 130 80446	LL4148
0,25W	6404	4822 130 80446	LL4148
0,25W	6417	4822 130 81223	LLZ-C2V4
0,25W	6422	4822 130 80446	LL4148
0,25W	6440	4822 130 30621	1N4148
0,25W	6441	4822 130 80446	LL4148
0,25W	6451	4822 130 61219	BZX79-C10
0,25W	6452	4822 130 42488	BYD33D
0,25W	6480	4822 130 31554	BZX79-C4V3

0,25W	6506	4822 130 32184	BYV27-50
0,25W	6515	4822 130 42488	BYD33D
0,25W	6516	4822 130 42488	BYD33D
0,25W	6517	4822 130 42488	BYD33D
0,25W	6519	4822 130 32896	BYD33M
0,25W	6520	4822 130 32896	BYD33M
0,25W	6526	4822 130 33531	BY229F-600
0,25W	6527	4822 130 83185	BY359F-1500
0,25W	6529	4822	

# Spare parts list / Stückliste / Liste des pièces

			-II-	-II-	-II-					
7480	4822 130 42513	BC858C	2007	4822 122 31797	22nF 10% 63V	2517	4822 126 11157	470pF 10% 500V	3052	4822
7481	5322 130 42136	BC848C	2008	4822 122 31797	22nF 10% 63V	2518	4822 124 22449	4,7μF 30% 350V	3053	4822
7501	4822 130 63316	BSN304	2009	4822 126 11175	22pF 5% 50V	2519	4822 124 80341	1μF 20% 160V	3054	▲4822
7506	4822 130 62843	2SC4288A	2010	5322 122 33446	3,3nF 10% 63V	2520▲	4822 121 51528	470nF 5% 250V	3060	4822
7512▲	4822 130 41344	BC337-40	2011	4822 122 32566	3,9nF 10% 63V	2520	4822 121 70281	510nF 5% 400V	3061	4822
7513	4822 130 41327	BC327-40	2011	4822 122 31775	680pF 2% 63V	2521	4822 121 51563	560nF 5% 250V	3065	4822
7530	4822 130 61233	BC857	2012	4822 122 32927	220nF +80-20% 50V	2523	4822 122 50118	8,2nF	3066	4822
7540	5322 130 42755	BC847C	2013	4822 122 32927	220nF +80-20% 50V	2524	4822 121 43915	27nF 5% 630V	3067	4822
7541	5322 130 42755	BC847C	2014	5322 122 33446	3,3nF 10% 63V	2529	4822 124 22467	2,2μF 20% 50V	3068	4822
7542	5322 130 42756	BC857C	2015	4822 124 42109	22μF 10% 50V	2530	4822 122 31797	22nF 10% 63V	3069	4822
7543	4822 130 60136	BC856	2016	4822 124 42109	22μF 10% 50V	2531	4822 121 40516	22nF 10% 250V	3072	4822
7550	4822 130 61003	BD944F	2018	4822 122 31797	22nF 10% 63V	2533	5322 122 32818	2,2nF 10% 100V	3073	4822
7551	4822 130 62846	ON4590	2019	4822 126 12816	10nF +80-20% 100V	2534	4822 126 11502	470pF 10% 500V	3074	4822
7552	4822 130 62846	ON4590	2020	4822 126 12816	10nF +80-20% 100V	2535	4822 124 23488	1000μF 20% 35V	3201	▲4822
7601	4822 130 61207	BC848	2021	4822 126 12816	10nF +80-20% 100V	2536	4822 122 31175	1nF 10% 500V	3202	▲4822
7602	5322 130 42012	BC858	2022	4822 126 12816	10nF +80-20% 100V	2537	4822 124 40201	1000μF 20% 16V	3203	4822
7603	5322 130 42012	BC858	2023	5322 122 33446	3,3nF 10% 63V	2541	4822 124 23489	33μF 20% 25V	3204	4822
7608	4822 130 44503	BC547C	2024	5322 122 33446	3,3nF 10% 63V	2542	4822 124 22466	1μF 20% 50V	3204	4822
7610	4822 130 62845	BDT60F	2025	4822 122 10167	22nF 30% 25V	2543	4822 124 23495	10μF 20% 25V	3209	▲4822
7616	5322 130 42136	BC848C	2026	4822 122 32927	220nF +80-20% 50V	2546	4822 122 33496	100nF 10% 63V	3210	4822
7618	5322 130 42136	BC848C	2027	4822 122 32927	220nF +80-20% 50V	2547	4822 122 33498	2,7nF 10% 63V	3211	4822
7650	5322 130 42136	BC848C	2028	4822 122 32927	220nF +80-20% 50V	2552	4822 122 33496	100nF 10% 63V	3212	4822
7651	5322 130 42136	BC848C	2029	4822 122 32927	220nF +80-20% 50V	2553	4822 122 33496	100nF 10% 63V	3213	4822
7652	5322 130 42136	BC848C	2030	4822 126 11175	22pF 5% 50V	2554▲	4822 124 41525	100μF 20% 25V	3216	▲4822
7800	5322 209 10576	4053B	2031	4822 126 11175	22pF 5% 50V	2555	4822 122 32891	68nF 10% 63V	3230	▲4822
7801	4822 130 61207	BC848	2032	4822 122 31797	22nF 10% 63V	2556	4822 124 41584	100μF 20% 10V	3234	4822
7802	4822 130 61207	BC848	2033	4822 122 10167	22nF 30% 25V	2600	4822 124 41577	4,7μF 20% 50V	3235	▲4822
<b>Large signal panel A B G FL1.16/17-FL2.16</b>			2034	4822 122 32862	10nF 80% 50V	2601	4822 122 31797	22nF 10% 63V	3236	4822
4822 266 30359	6P female		2035	4822 122 32566	3,9nF 10% 63V	2603	4822 122 32891	68nF 10% 63V	3237	4822
4822 265 40472	10P female gold plated		2036	4822 122 31775	680pF 2% 63V	2603	4822 122 32542	47nF 10% 63V	3239	4822
4822 290 40295	7P male		2037	4822 122 31773	560pF 2% 63V	2605	4822 122 33498	100nF 10% 63V	3240	4822
4822 265 40818	8P male		2038	4822 122 31644	2,2nF 10% 63V	2605	4822 122 33498	2,7nF 10% 63V	3241	4822
4822 267 40985	6P male		2039	4822 122 31765	100pF 2% 63V	2605	4822 122 33498	2,7nF 10% 63V	3243	▲4822
4822 264 40207	3P male		2040	4822 122 32927	220nF +80-20% 50V	2605	4822 122 33498	2,7nF 10% 63V	3247	4822
4822 265 30389	2P male		2041	4822 122 32927	220nF +80-20% 50V	2606	4822 122 33496	100nF 10% 63V	3248	4822
4822 265 40596	2P male		2043	4822 122 32927	220nF +80-20% 50V	2609	4822 121 43396	120nF 5% 63V	3249	4822
4822 265 20509	2P grey		2045	4822 122 32927	220nF +80-20% 50V	2610	4822 124 41576	2,2μF 20% 50V	3250	▲4822
4822 265 20512	2P green		2046	4822 122 32927	220nF +80-20% 50V	2611	4822 124 40763	2,2μF 20% 100V	3250	4822
4822 265 20511	2P blue		2047	4822 122 32927	220nF +80-20% 50V	2613	4822 122 31784	4,7nF 10% 50V	3251	4822
4822 265 30953	6P male		2049	4822 122 31965	220pF 2% 63V	2615	4822 122 10175	2,2nF 10% 50V	3252	4822
4822 264 50149	10P male gold plated		2050	4822 124 40433	47μF 20% 25V	2603	4822 122 33496	100nF 10% 63V	3253	4822
4822 265 30984	5P female		2051	4822 124 40433	47μF 20% 25V	2605	4822 051 10912	9k1 2% 0,25W	3255	4822
<b>Various</b>			2052	4822 124 40433	47μF 20% 25V	3001	4822 051 10912	9k1 2% 0,25W	3266	4822
4822 492 70143	spring 10x33mm		2053	4822 124 40433	47μF 20% 25V	3001	4822 051 10153	15k 2% 0,25W	3267	4822
4822 492 62076	spring fix transistor		2056	4822 122 31773	560pF 2% 63V	3004	4822 051 10104	100k 2% 0,25W	3268	4822
4822 492 70788	spring fix IC		2057	4822 122 31773	560pF 2% 63V	3005	4822 051 10104	100k 2% 0,25W	3270	4822
4822 492 70789	spring fix transistor		2058	4822 122 31773	560pF 2% 63V	3006	4822 051 10204	200k 2% 0,25W	3271	4822
4822 276 12998	mains switch		2059	4822 122 31773	560pF 2% 63V	3009	4822 051 10204	200k 2% 0,25W	3272	4822
4822 256 30496	fuse holder		2060	4822 122 31773	560pF 2% 63V	3011	4822 051 10203	20k 2% 0,25W	3273	4822
5322 390 20011	vet silic.P4 20GR		2065	4822 126 11156	684nF 20%	3012	4822 051 10203	20k 2% 0,25W	3275	4822
4822 290 60812	socket for ext. loudsp.		2066	4822 126 11156	684nF 20%	3013	4822 116 52268	300k 5% 0,5W	3300	4822
4822 276 13094	switch loudsp. ON/OFF		2070	4822 124 40272	33μF 20% 16V	3014	4822 116 52268	300k 5% 0,5W	3304	4822
4822 267 20417	socket for squeeters		2071	4822 124 23489	33μF 20% 25V	3016▲	4822 052 10828	8Ω 5% 0,33W	3305	4822
1010	4822 212 30195	NTSC panel	2072	4822 124 41584	100μF 20% 10V	3021▲	4822 052 10828	8Ω 5% 0,33W	3306	4822
1200▲	4822 070 33152	fuse 3,15A	2073	4822 124 21212	15μF 20% 40V	3022▲	4822 052 10828	8Ω 5% 0,33W	3308	4822
2001	4822 122 31784	4,7nF 10% 50V	2074	5322 122 31647	1nF 10% 63V	3027	4822 051 10103	10k 2% 0,25W	3309	4822
2002	4822 122 31784	4,7nF 10% 50V	2200▲	4822 121 43819	680nF 10% 250V	3028	4822 051 10103	10k 2% 0,25W	3310	4822
2003	4822 126 11175	22pF 5% 50V	2203▲	4822 121 40487	100nF 10% 400V	3029	4822 051 10123	12k 2% 0,25W	3311	4822
2004	4822 122 32142	270pF 2% 63V	2210	4822 126 11141	2,2nF 10% 1kV	3030	4822 051 10123	12k 2% 0,25W	3312	4822
2005	4822 122 32142	270pF 2% 63V	2211	4822 126 11141	2,2nF 10% 1kV	3031	4822 051 10102	1k 2% 0,25W	3313	4822
2211	4822 126 11141	2,2nF 10% 1kV	2212	4822 126 11141	2,2nF 10% 1kV	3032	4822 051 10102	1k 2% 0,25W	3314	4822
2214	4822 124 23492	220μF 50% 385V	2213	4822 126 11157	470pF 10% 500V	3033	4822 116 52244	15k 5% 0,5W	3317	4822
2215▲	4822 122 33665	3,3nF 20% 125V	2232	4822 124 40785	3300μF 20% 25V	3034	4822 051 10472	4k7 2% 0,25W	3320	4822
2216▲	4822 126 12274	1500pF 10% 2kV	2233	4822 126 11157	470pF 10% 500V	3035	4822 051 10153	15k 2% 0,25W	3321	4822
2230	4822 122 32856	8,2nF 10% 63V	2234	4822 124 40785	3300μF 20% 25V	3036	4822 051 10152	1k5 2% 0,25W	3322	4822
2231	4822 126 11157	470pF 10% 500V	2235	4822 126 11157	470pF 10% 500V	3040	4822 051 10273	27k 2% 0,25W	3358	4822
2232	4822 124 40785	3300μF 20% 25V	2236	4822 124 80215	1000μF 20% 35V	3041	4822 051 10152	1k5 2% 0,25W	3360	4822
2233	4822 126 11157	470pF 10% 500V	2237▲	4822 126 12276	2200pF 10% R 2kV	3043	4822 051 10203	20k 2% 0,25W	3362	4822
2234	4822 124 40785	3300μF 20% 25V	2238	4822 124 22583	47μF 160V	3044	4822 051 10221	220Ω 2% 0,25W	3362	4822
2235	4822 126 11157	470pF 10% 500V	2241	5322 124 41431	22μF 20% 35V	3049	4822 051 10102	1k 2% 0,25W	3368	4822
2236	4822 124 80215	1000μF 20% 35V	2254	4822 126 11496	120pF 5% 2kV	3050	4822 051 10103	10k 2% 0,25W	3362	4822
2237▲	4822 126 12276	2200pF 10% R 2kV	2255	4822 122 32142	270pF 2% 63V	3051	4822 051 10203	20k 2% 0,25W	3364	4822
2238	4822 124 22583	47μF 160V	2258	5322 121 42502	390nF 5% 63V					
2241	5322 124 41431	22μF 20% 35V	2260	4822 122 31781	1500pF 10% 50V					
2254	4822 126 11496	120pF 5% 2kV	2261	4822 124 40255</						



10% 500V	3052	4822 051 10472	4k7 2% 0,25W
0% 350V	3053	4822 051 10472	4k7 2% 0,25W
% 160V	3054▲	4822 053 21475	4M7 5% 0,5W
5% 250V	3060	4822 051 10203	20k 2% 0,25W
3% 400V	3061	4822 051 10201	200Ω 2% 0,25W
5% 250V	3065	4822 051 10184	180k 2% 0,25W
	3066	4822 051 10184	180k 2% 0,25W
% 630V	3067	4822 116 52289	5k6 5% 0,5W
10% 50V	3068	4822 116 52207	1k2 5% 0,5W
3% 63V	3069	4822 051 10272	2k7 2% 0,25W
3% 250V	3072	4822 051 10479	47Ω 2% 0,25W
0% 100V	3073	4822 116 52257	22k 5% 0,5W
10% 500V	3074	4822 051 10103	10k 2% 0,25W
20% 35V	3201▲	4822 053 21475	4M7 5% 0,5W
% 500V	3202▲	4822 053 21825	6M2 5% 0,5W
20% 16V	3203	4822 111 41573	470Ω 10% 0,5W
3% 25V	3204	4822 116 40138	PTC
% 50V	3204	4822 116 40215	PTC/NTC
3% 25V	3209▲	4822 113 80603	1,5Ω 10% 7W
10% 63V	3210	4822 116 52239	120k 5% 0,5W
0% 63V	3211	4822 116 52239	120k 5% 0,5W
10% 63V	3212	4822 116 52234	100k 5% 0,5W
10% 63V	3213	4822 051 10823	82k 2% 0,25W
20% 25V	3216▲	4822 115 90309	5Ω 10% 5W
0% 63V	3230▲	4822 052 10108	16k 5% 0,33W
20% 10V	3234	4822 100 11348	1k 30% lin
0% 50V	3235▲	4822 051 10008	0Ω 5% 0,25W
0% 63V	3236	4822 051 10681	680Ω 2% 0,25W
0% 63V	3237	4822 051 10101	100Ω 2% 0,25W
0% 63V	3239	4822 116 52297	68k 5% 0,5W
10% 63V	3240	4822 116 52297	68k 5% 0,5W
10% 50V	3241	4822 113 80602	5,6Ω 10% 5W
0% 63V	3243▲	4822 053 10221	220Ω 5% 1W
0% 63V	3247	4822 116 51122	1k2 2% 0,25W
10% 63V	3248	4822 051 10562	5k6 2% 0,25W
5% 63V	3249	4822 116 52258	220k 5% 0,5W
20% 50V	3250▲	4822 116 52199	68Ω 5% 0,5W
20% 100V	3250	4822 116 52198	62Ω 5% 0,5W
0% 50V	3251	4822 051 10102	1k 2% 0,25W
0% 50V	3252	4822 116 52258	220k 5% 0,5W
	3253	4822 116 82738	10k 10% 5W
	3255	4822 116 52243	1k5 5% 0,5W
0,25W	3266	4822 051 10151	150Ω 2% 0,25W
0,25W	3267	4822 051 10101	100Ω 2% 0,25W
0,25W	3268	4822 115 10129	27Ω 10% 5W
% 0,25W	3270	4822 051 10108	1Ω 5% 0,25W
% 0,25W	3271	4822 053 10399	39Ω 5% 1W
% 0,25W	3272	4822 051 51201	120Ω 1% 0,125W
% 0,25W	3273	4822 051 10472	4k7 2% 0,25W
0,25W	3275	4822 116 52206	120Ω 5% 0,5W
0,25W	3300	4822 053 10753	75Ω 5% 1W
% 0,5W	3304	4822 051 10473	47k 2% 0,25W
% 0,33W	3305	4822 051 10113	11k 2% 0,25W
% 0,33W	3306	4822 051 10823	82k 2% 0,25W
% 0,33W	3308	4822 053 12151	150Ω 5% 3W
0,25W	3309	4822 051 10103	10k 2% 0,25W
0,25W	3310	4822 116 52184	18Ω 5% 0,5W
0,25W	3311	4822 051 10471	470Ω 2% 0,25W
0,25W	3312	4822 051 10101	100Ω 2% 0,25W
0,25W	3313	4822 116 52184	18Ω 5% 0,5W
0,25W	3314	4822 116 52175	100Ω 5% 0,5W
0,5W	3317	4822 051 10682	6k8 2% 0,25W
0,25W	3320	4822 051 10471	470Ω 2% 0,25W
0,25W	3321	4822 051 10471	470Ω 2% 0,25W
0,25W	3322	4822 051 10471	470Ω 2% 0,25W
0,25W	3331	4822 116 52267	30k 5% 0,5W
0,25W	3332	4822 116 52233	10k 5% 0,5W
0,25W	3351	4822 052 11279	27Ω 5% 0,5W
0,25W	3356	4822 051 10681	680Ω 2% 0,25W
0,25W	3357	4822 050 27871	787Ω 1% 0,6W
0,25W	3358	4822 116 52183	16Ω 5% 0,5W
0,25W	3360	4822 051 10122	1k2 2% 0,25W
0,25W	3362	4822 051 10151	150Ω 2% 0,25W
0,25W	3364	4822 051 10471	470Ω 2% 0,25W

3365	4822 051 10221	220Ω 2% 0,25W
3366	4822 051 10221	220Ω 2% 0,25W
3368	4822 116 52226	560Ω 5% 0,5W
3369	4822 116 52226	560Ω 5% 0,5W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 100 11348	1k 30% lin
3372	4822 051 10561	560Ω 2% 0,25W
3374	4822 116 52301	75k 5% 0,5W
3375▲	4822 051 10242	2k4 2% 0,25W
3376	4822 116 52175	100Ω 5% 0,5W
3378	4822 051 10101	100Ω 2% 0,25W
3380	4822 051 10152	1k5 2% 0,25W
3381	4822 051 10152	1k5 2% 0,25W
3382	4822 051 10103	10k 2% 0,25W
3383	4822 051 10103	10k 2% 0,25W
3385	4822 051 10223	22k 2% 0,25W
3402	4822 051 10562	5k6 2% 0,25W
3403	4822 051 10229	22Ω 2% 0,25W
3404	4822 051 10182	1k8 2% 0,25W
3405	4822 051 10333	33k 2% 0,25W
3406	4822 100 11483	10k 30% lin
3407	4822 051 10561	560Ω 2% 0,25W
3408	4822 051 10563	56k 2% 0,25W
3409	4822 116 52292	560k 5% 0,5W
3409	4822 116 52288	510k 5% 0,5W
3410	4822 100 11213	22k 30% lin
3411	4822 051 10104	100k 2% 0,25W
3411	4822 051 10913	91k 2% 0,25W
3411	4822 051 10124	120k 2% 0,25W
3413	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10154	150k 2% 0,25W
3415	4822 100 11392	47k 30% lin
3416	4822 116 81223	1M2 5% 0,5W
3417	4822 116 52256	2k2 5% 0,5W
3418	4822 051 10201	200Ω 2% 0,25W
3419!	4822 052 10229	22Ω 5% 0,33W
3420	4822 050 23905	3M9 1% 0,6W
3421	4822 116 52263	2k7 5% 0,5W
3422	4822 116 81223	1M2 5% 0,5W
3422	4822 116 81783	1M5 5% 0,5W
3423	4822 116 52305	820k 5% 0,5W
3423	4822 116 52235	1M 5% 0,5W
3424	4822 051 10221	220Ω 2% 0,25W
3425	4822 051 10124	120k 2% 0,25W
3426	4822 051 10331	330Ω 2% 0,25W
3427	4822 051 10474	470k 2% 0,25W
3428	4822 116 52271	33k 5% 0,5W
3429	4822 050 11002	1k 1% 0,4W
3430	4822 051 10103	10k 2% 0,25W
3431	4822 051 10333	33k 2% 0,25W
3437	4822 116 52224	470Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52247	16k 5% 0,5W
3440	4822 051 20222	2k2 5% 0,1W
3441	4822 051 10622	6k2 2% 0,25W
3442	4822 051 10332	3k3 2% 0,25W
3443	4822 051 10112	1k1 2% 0,25W
3444	4822 051 10103	10k 2% 0,25W
3446	4822 051 10273	27k 2% 0,25W
3450	4822 051 10432	4k3 2% 0,25W
3451	4822 051 10432	4k3 2% 0,25W
3452▲	4822 052 10159	15Ω 5% 0,33W
3455	4822 051 10471	470Ω 2% 0,25W
3456	4822 051 10124	120k 2% 0,25W
3456	4822 051 10134	130k 2% 0,25W
3457	4822 051 10822	8k2 2% 0,25W
3457	4822 051 10912	9k1 2% 0,25W
3458▲	4822 116 80676	1Ω 5% 0,5W
3459▲	4822 116 80676	1Ω 5% 0,5W
3460	4822 053 10271	270Ω 5% 1W
3461	4822 116 80176	1Ω 5% 0,5W
3462	4822 116 80176	1Ω 5% 0,5W
3463	4822 116 80176	1Ω 5% 0,5W
3465	4822 051 10681	680Ω 2% 0,25W

3466	4822 116 52243	1k5 5% 0,5W
3466	4822 116 52263	2k7 5% 0,5W
3466	4822 116 52279	4k3 5% 0,5W
3467	4822 100 20166	10k 30% lin
3468	4822 053 12221	220Ω 5% 3W
3469	4822 050 11002	1k 1% 0,4W
3469	4822 116 52263	2k7 5% 0,5W
3469	4822 116 52279	4k3 5% 0,5W
3471	4822 051 20222	2k2 5% 0,1W
3471	4822 051 10182	1k8 2% 0,25W
3473	4822 116 52253	2k 5% 0,5W
3479	4822 051 10683	68k 2% 0,25W
3480	4822 116 52234	100k 5% 0,5W
3481	4822 051 10102	1k 2% 0,25W
3482	4822 051 10229	22Ω 2% 0,25W
3483	4822 051 10563	56k 2% 0,25W
3484	4822 051 10223	22k 2% 0,25W
3485	4822 051 10102	1k 2% 0,25W
3500	4822 116 52224	470Ω 5% 0,5W
3501	4822 051 10392	3k9 2% 0,25W
3502	4822 116 52299	7k5 5% 0,5W
3503	4822 116 52299	7k5 5% 0,5W
3504	4822 053 11108	1Ω 5% 2W
3505	4822 116 52191	33Ω 5% 0,5W
3505	4822 116 52195	47Ω 5% 0,5W
3506	4822 053 11108	1Ω 5% 2W
3507	4822 116 52191	33Ω 5% 0,5W
3507	4822 116 52195	47Ω 5% 0,5W
3508	4822 116 82773	1k8 10% 5W
3508	4822 116 83003	1k5 10% 5W
3509	4822 053 21154	150k 5% 0,5W
3510	4822 113 80592	150Ω 10% 5W
3512	4822 051 10331	330Ω 2% 0,25W
3513	4822 100 11319	4k7 30% lin
3514	4822 116 52189	30Ω 5% 0,5W
3515▲	4822 052 10108	1Ω 5% 0,33W
3516▲	4822 052 10108	1Ω 5% 0,33W
3517▲	4822 052 11108	1Ω 5% 0,5W
3518	4822 116 52267	30k 5% 0,5W
3519	4822 116 52267	30k 5% 0,5W
3520▲	4822 052 11471	470Ω 5% 0,5W
3521▲	4822 052 11471	470Ω 5% 0,5W
3522▲	4822 052 11102	1k 5% 0,5W
3524	4822 116 81753	4Ω 7% 0,5W
3525	4822 116 80176	1Ω 5% 0,5W
3526	4822 053 10688	68Ω 5% 1W
3527	4822 051 10102	1k 2% 0,25W
3528	4822 116 52207	1k2 5% 0,5W
3529	4822 051 10104	100k 2% 0,25W
3530	4822 051 10474	470k 2% 0,25W
3532▲	4822 050 23301	330Ω 1% 0,6W
3533▲	4822 050 23301	330Ω 1% 0,6W
3534▲	4822 052 10278	2Ω 7% 0,33W
3535▲	4822 052 10278	2Ω 7% 0,33W
3536	4822 116 52221	360Ω 5% 0,5W
3537	4822 116 52189	30Ω 5% 0,5W
3538	4822 050 21203	12k 1% 0,6W
3540	4822 116 52267	30k 5% 0,5W
3541	4822 116 52285	470k 5% 0,5W
3542	4822 051 10104	100k 2% 0,25W
3543	4822 051 10152	1k5 2% 0,25W
3544	4822 051 10393	39k 2% 0,25W
3545	4822 116 52208	130Ω 5% 0,5W
3547	4822 051 10518	5Ω 1% 5% 0,25W
3548	4822 051 10392	3k9 2% 0,25W
3549	4822 051 10124	120k 2% 0,25W
3550	4822 051 10102	1k 2% 0,25W
3553▲	4822 053 11479	47Ω 5% 2W
3554▲	4822 051 10008	0Ω 5% 0,25W
3555	4822 051 10681	680Ω 2% 0,25W
3556▲	4822 051 10008	0Ω 5% 0,25W
3557	4822 051 10182	1k8 2% 0,25W
3558	4822 100 11348	1k 30% lin
3559	4822 051 10182	1k8 2% 0,25W

3560▲	4822 052 10108	1Ω 5% 0,33W
3561	4822 051 10152	1k5 2% 0,25W
3562	4822 051 51102	1k1 1% 0,125W
3563	4822 051 10122	1k2 2% 0,25W
3600	4822 051 10912	9k1 2% 0,25W
3600	4822 051 10133	13k 2% 0,25W
3601	4822 051 10104	100k 2% 0,25W
3601	4822 051 10154	150k 2% 0,25W

# Spare parts list / Stückliste / Liste des pièces

**Jumper**

0,33W	4416	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4417	4822 051 10008	0Ω 5% 0,25W
% 0,125W	4420	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4421	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4465	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4467	4822 051 10008	0Ω 5% 0,25W
2% 0,25W	4469	4822 051 10008	0Ω 5% 0,25W
2% 0,25W	4507	4822 051 10008	0Ω 5% 0,25W
0% lin	4517	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4518	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4519	4822 051 10008	0Ω 5% 0,25W
% 0,1W	4521	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4522	4822 051 10008	0Ω 5% 0,25W
2% 0,25W	4525	4822 051 10008	0Ω 5% 0,25W
2% 0,25W	4527	4822 051 10008	0Ω 5% 0,25W
2% 0,25W	4528	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4529	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4530	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4531	4822 051 10008	0Ω 5% 0,25W
% 0,25W	4533	4822 051 10008	0Ω 5% 0,25W
0% lin	4534	4822 051 10008	0Ω 5% 0,25W
% 0,25W			
% 0,25W			
% 0,1W	5204	4822 157 10291	mainfilter CU28D5
% 0,5W	5230▲	4822 148 81192	SOPS transf.
5% 0,5W	5231	4822 526 10494	ferrite bead
% 0,25W	5233	4822 526 10494	ferrite bead
% 0,1W	5235	4822 526 10494	ferrite bead
% 0,25W	5237	4822 526 10494	ferrite bead
% 0,1W	5241	4822 157 63696	18μH 10%
% 0,25W	5255▲	4822 148 81225	μSOPS transf.
2% 0,25W	5260	4822 526 10494	ferrite bead
% 0,5W	5262	4822 526 10494	ferrite bead
% 0,5W	5308	4822 157 70001	180μH 10%
% 0,5W	5310	4822 157 51195	1μH 20%
% 0,25W	5381▲	4822 157 52265	100μH 10%
% 0,5W	5503	4822 157 63252	line driver
2% 0,25W	5510	4822 157 62412	27μH 10%
2% 0,25W	5511	4822 157 52407	39μH 7,5%
% 0,25W	5514	4822 157 70006	DC-shift
2% 0,25W	5521	4822 157 63255	bridge coil
% 0,25W	5522	4822 156 50107	linearity corr.
2% 0,25W	5524	4822 526 10494	ferrite bead
2% 0,25W	5526	4822 157 63253	choke
% 0,25W	5527	4822 157 70472	0,56μH 20%
% 0,1W	5534	5322 157 52539	15μH 7,5%
% 0,25W	5543	4822 157 62412	27μH 10%
% 0,25W	5555▲	4822 140 10443	L.O.T.
2% 0,25W	6000	4822 130 80446	LL4148
% 0,1W	6001	4822 130 80446	LL4148
% 0,1W	6008	4822 209 73095	P4KE30C-7000
% 0,25W	6010	4822 130 80446	LL4148
% 0,25W	6011	4822 130 80446	LL4148
% 0,25W	6012	4822 130 80446	LL4148
% 0,25W	6016	4822 130 80446	LL4148
% 0,25W	6017	4822 130 80446	LL4148
% 0,25W	6021	4822 130 80446	LL4148
% 0,25W	6201	4822 130 80446	LL4148
% 0,25W	6210	4822 130 33887	GP15J-16
% 0,25W	6211	4822 130 33887	GP15J-16
% 0,25W	6212	4822 130 33887	GP15J-16
% 0,25W	6213	4822 130 33887	GP15J-16
% 0,25W	6216	4822 130 42606	BYD33J
% 0,25W			D23-C5V6
% 0,25W	6331▲	4822 130 30621	1N4148
% 0,25W	6349	4822 130 80446	LL4148
% 0,25W	6350	4822 130 80446	LL4148
% 0,25W	6351▲	4822 130 30621	1N4148
% 0,25W	6352	4822 130 80446	LL4148
% 0,25W	6353	4822 130 80446	LL4148
% 0,25W	6355	4822 130 80446	LL4148
% 0,25W	6356	4822 130 80886	LLZ-F22



6357	4822 130 80446	LL4148
6370	4822 130 81512	LLZ-C6V2
6371	4822 130 80446	LL4148
6372	4822 130 80446	LL4148
6373	4822 130 82583	LLZ-C9V1
6375	4822 130 80446	LL4148
6376	4822 130 81143	LLZ-C20
6403	4822 130 80446	LL4148
6404	4822 130 80446	LL4148
6405	4822 130 80446	LL4148
6417	4822 130 81223	LLZ-C2V4
6440	4822 130 80446	LL4148
6441	4822 130 80446	LL4148
6451	5322 130 34834	BZX79-C3V6
6452	4822 130 42488	BYD33D
6465	4822 130 80446	LL4148
6467	4822 130 80446	LL4148
6480	4822 130 31554	BZX79-C4V3
6504	4822 130 42488	BYD33D
6506	4822 130 42488	BYD33D
6507	4822 130 83086	LL4150
6515	4822 130 42488	BYD33D
6516	4822 130 42488	BYD33D
6517	4822 130 42488	BYD33D
6519▲	4822 130 32896	BYD33M
6520▲	4822 130 32896	BYD33M
6526▲	4822 130 33531	BY229F-600
6527	4822 130 83185	BY359F-1500
6529	4822 130 34329	BZX79-C43
6535	4822 130 82512	BYV29F-400
6536	4822 130 80982	BYW29F-100
6538	4822 130 80954	LLZ-C5V6
6542	4822 130 42488	BYD33D
6546	4822 130 80446	LL4148
6547▲	4822 130 30621	1N4148
6551	4822 130 80954	LLZ-C5V6
6629	4822 130 80446	LL4148
6650	4822 130 82583	LLZ-C9V1
6651	4822 130 80446	LL4148
7000	4822 209 73311	TDA1521Q/N4
7001	4822 209 73311	TDA1521Q/N4
7002▲	4822 209 83163	LM833N
7003	4822 130 61207	BC848
7005	5322 130 42136	BC848C
7006	5322 130 42136	BC848C
7007	4822 130 61207	BC848
7008	4822 130 61207	BC848
7009▲	4822 209 83163	LM833N
7010	5322 130 42012	BC858
7011	4822 209 63913	TDA1521AQ/N4
7012	4822 130 61207	BC848
7013	4822 130 61207	BC848
7201	5322 130 42756	BC857C
7216	4822 130 63239	ON4827
7241	4822 130 61003	BD944F
7242	5322 130 44349	BC635
7250	4822 130 62509	BUX85F
7251	4822 130 61207	BC848
7268	4822 130 62742	BD943F
7270	4822 130 41746	BD825
7273	4822 130 42513	BC858C
7274	4822 130 42513	BC858C
7305	5322 130 42136	BC848C
7311	4822 130 42513	BC858C
7312	4822 130 62955	ON4703-BD437
7318	4822 130 42615	BC817-40
7320▲	4822 130 82034	CNX83A
7360	5322 130 42756	BC857C
7369	5322 130 42756	BC847C
7370	5322 130 42756	BC847C
7371	4822 130 42513	BC858C
7380	4822 130 42513	BC858C



7381	5322 130 42136	BC848C
7384	5322 130 42755	BC847C
7400	4822 209 30402	TDA2579B/N2/S1
7402	5322 130 42136	BC848C
7403	4822 130 42513	BC858C
7407	4822 130 61207	BC848
7417	4822 130 42513	BC858C
7444	5322 130 42136	BC848C
7445	5322 130 42136	BC848C
7450	4822 209 73308	TDA3654Q/N3
7451	5322 130 42012	BC858
7469	4822 130 44283	BC636
7480	4822 130 42513	BC858C
7481	5322 130 42136	BC848C
7501	4822 130 63316	BSN304
7504	4822 209 63912	ON4673
7506	4822 209 63912	ON4673
7512	4822 130 41109	BD135-16
7513	4822 130 41194	BD136-16
7530	4822 130 60136	BC856
7540	5322 130 42755	BC847C
7541	5322 130 42755	BC847C
7542	5322 130 42756	BC857C
7543	4822 130 60136	BC856
7550	4822 130 63085	BD944F-ON4743
7551	4822 209 70672	LM358N
7552	5322 130 44349	BC635
7601	4822 130 61207	BC848
7602	5322 130 42012	BC858
7603	5322 130 42012	BC858
7608	4822 130 44503	BC547C
7610	4822 130 62845	BDT60F
7616	4822 130 61207	BC848
7618	4822 130 61207	BC848
7650	5322 130 42136	BC848C
7651	5322 130 42136	BC848C
7652	5322 130 42136	BC848C
4822 265 40252	7P male	
4822 265 40253	8P male	
4822 267 50637	10P grey	
4822 265 41086	9P male	
4822 265 41114	9P	
4822 265 41082	10P flexcon.	
4822 290 40295	7P male	
4822 265 30378	4P male	
4822 267 41095	5P male	
4822 265 41326	10P male hor.	
4822 264 40207	3P male	
4822 267 51242	10P male vert.	
4822 265 31009	3P pinstrip	
4822 265 20512	2P green	
4822 290 61116	9P pinstrip	
4822 265 40442	10P male	
4822 265 41335	11P	
4822 267 40666	3P male vert.	
4822 265 20509	2P grey	
4822 265 30828	5P male vert.	
4822 265 30899	5P male black	
4822 267 40696	3P male white	
4822 265 31112	5P male hor.	
4822 265 31101	3P male hor.	
4822 267 20427	socket SCART +4xcinch	
4822 267 20411	socket SCART +2xcinch	
4822 267 41005	socket 2xcinch +2xSVHS	
4822 267 20409	socket 2xcinch +1xSVHS	

**Various**

4822 267 20408	socket headph. +cinch
4822 267 51058	socket SCART
4822 267 41004	socket headph. +cinch+SVHS
4822 267 51112	socket D2B
4822 218 21084	keyboard
4822 255 40901	IC socket 40P
1100	4822 212 23281 IR receiver
1107	4822 242 71711 filter 6MHz
1160	4822 210 10548 FQ916ME/BL
1160	4822 210 10558 FQ916MF/LIF
1160	4822 210 10556 FQ944/LIF
1160	4822 210 10549 FQ916DME/B
1160	4822 210 10557 FQ916DMF/IF
1160	4822 210 10555 FQ944D/IF
1162	4822 212 30145 SAT IF 12MHz
1162	4822 212 30146 SAT IF 8MHz
1248	4822 242 80364 filter 4,43MHz
1379	4822 242 70736 crystal 7,159 090 MHz
1380	4822 242 70304 crystal 8,867 238 MHz
1602	4822 242 80276 crystal 10MHz
2100	4822 124 40684 150μF 20% 6,3V
2103	4822 122 31765 100pF 2% 63V
2107	4822 126 11544 22nF 63V
2111	4822 126 11544 22nF 63V
2114	4822 124 22606 68μF 20% 16V
2118	4822 122 31

245	4822 122 32927	220nF +80-20% 50V	2446	4822 126 11804	330nF	3100	4822 051 10102	1k 2% 0,25W	3183	4822 116 52233	10k 5% 0,5W	3278	4822
249	4822 122 32862	10nF 80% 50V	2447	4822 126 11804	330nF	3101	4822 116 52175	100Ω 5% 0,5W	3184	4822 051 51201	120Ω 1% 0,125W	3279	4822
250	4822 051 10102	1K 2% 0,25W	2451	5322 121 42661	330nF 5% 63V	3102	4822 051 10101	100Ω 2% 0,25W	3185	4822 051 10471	470Ω 2% 0,25W	3280	4822
250	4822 122 31947	100nF 20% 63V	2452	4822 124 22466	1μF 20% 50V	3103	4822 051 10101	100Ω 2% 0,25W	3186	4822 116 52256	2k2 5% 0,5W	3281	4822
251	4822 122 31947	100nF 20% 63V	2452	4822 124 40749	3,3μF 20% 63V	3104	4822 116 52175	100Ω 5% 0,5W	3187	4822 051 10759	75Ω 2% 0,25W	3285	4822
			2453	4822 122 31774	56pF 2% 63V								
252	4822 121 42408	220nF 5% 63V	2454	4822 126 10324	33pF 2% 63V	3107	4822 051 10103	10k 2% 0,25W	3189	4822 051 10223	22k 2% 0,25W	3285	4822
253	4822 126 11492	220nF 10% 50V	2455	4822 126 10324	33pF 2% 63V	3108	4822 051 10104	100k 2% 0,25W	3190	4822 051 10823	82k 2% 0,25W	3286	4822
254	4822 122 32927	220nF +80-20% 50V	2456	4822 126 10324	33pF 2% 63V	3109	4822 051 10271	270Ω 2% 0,25W	3191	4822 051 10823	82k 2% 0,25W	3286	4822
255	4822 124 41643	100μF 20% 16V	2476	4822 124 41577	4,7μF 20% 50V	3110	4822 051 10101	100Ω 2% 0,25W	3192	4822 051 10153	15k 2% 0,25W	3287	4822
257	4822 122 31947	100nF 20% 63V	2478	4822 122 31784	4,7nF 10% 50V	3111	4822 051 10101	100Ω 2% 0,25W	3193	4822 051 10331	330Ω 2% 0,25W	3287	4822
			2479	4822 122 32183	56nF 10% 50V								
258	4822 122 31765	100pF 2% 63V	2480	4822 124 40272	33μF 20% 16V	3112	4822 050 11002	1k 1% 0,4W	3194	4822 051 10331	330Ω 2% 0,25W	3288	4822
260	4822 122 31947	100nF 20% 63V	2600	4822 122 31947	100nF 20% 63V	3113	4822 116 52175	100Ω 5% 0,5W	3200	4822 051 10472	4k7 2% 0,25W	3288	4822
261	4822 122 31947	100nF 20% 63V	2602	4822 122 31947	100nF 20% 63V	3114	4822 116 52175	100Ω 5% 0,5W	3201	4822 051 10472	4k7 2% 0,25W	3300	4822
268	4822 122 31947	100nF 20% 63V	2602	4822 122 31947	100nF 20% 63V	3115	4822 116 52175	100Ω 5% 0,5W	3202	4822 051 10472	4k7 2% 0,25W	3301	4822
269	4822 122 32482	22pF 2% 63V	2604	4822 122 31947	100nF 20% 63V	3116	4822 116 52175	100Ω 5% 0,5W	3205	4822 051 10759	75Ω 2% 0,25W	3303	4822
			2606	4822 122 31947	100nF 20% 63V								
270	4822 126 11544	22nF 63V	2608	4822 122 32927	220nF +80-20% 50V	3117	4822 051 20222	2k2 5% 0,1W	3206	4822 051 10759	75Ω 2% 0,25W	3304	4822
274	4822 122 32862	10nF 80% 50V	2620	4822 122 32927	220nF +80-20% 50V	3119	4822 051 20222	2k2 5% 0,1W	3207	4822 051 10759	75Ω 2% 0,25W	3305	4822
301	5322 122 31647	1nF 10% 63V	2622	4822 122 32927	220nF +80-20% 50V	3120	4822 051 20222	2k2 5% 0,1W	3208	4822 051 10101	100Ω 2% 0,25W	3306	4822
305	4822 126 10324	33pF 2% 63V	2622	4822 122 32927	220nF +80-20% 50V	3121	4822 051 10123	12k 2% 0,25W	3209	4822 051 10101	100Ω 2% 0,25W	3310	4822
306	4822 122 31772	47pF 2% 63V	2622	4822 122 32927	220nF +80-20% 50V	3122	4822 051 10103	10k 2% 0,25W	3210	4822 051 10101	100Ω 2% 0,25W	3316	4822
312	4822 126 11544	22nF 63V	2624	5322 122 31842	330pF 2% 63V	3122	4822 051 10123	12k 2% 0,25W	3211	4822 116 52224	470Ω 5% 0,5W	3325	4822
318	4822 121 42408	220nF 5% 63V	2626	4822 122 32927	220nF +80-20% 50V	3123	4822 051 10103	10k 2% 0,25W	3215	4822 051 10689	68Ω 2% 0,25W	3326	4822
324	4822 126 11544	22nF 63V	2626	4822 122 32927	220nF +80-20% 50V	3123	4822 051 10123	12k 2% 0,25W	3216	4822 052 10828	82Ω 5% 0,33W	3326	4822
338	4822 122 31772	47pF 2% 63V	2626	4822 122 32927	220nF +80-20% 50V	3124	4822 051 10101	100Ω 2% 0,25W	3216	4822 116 81193	15Ω 5% 0,3W	3327	4822
342	4822 122 31972	39pF 2% 63V	2627	5322 124 41431	22μF 20% 35V	3125	4822 051 10101	100Ω 2% 0,25W	3217	4822 116 52224	470Ω 5% 0,5W	3336	4822
343	4822 122 31727	470pF 2% 63V	2628	5322 122 31842	330pF 2% 63V	3126	4822 051 10101	100Ω 2% 0,25W	3218	4822 051 10471	470Ω 2% 0,25W	3338	4822
344	4822 122 31775	680pF 2% 63V	2630	4822 122 32927	220nF +80-20% 50V	3128	4822 051 10471	470Ω 2% 0,25W	3219	4822 051 10008	0Ω 5% 0,25W	3339	4822
345	4822 122 31807	1200pF 2% 63V	2630	4822 122 32927	220nF +80-20% 50V	3130	4822 051 10101	100Ω 2% 0,25W	3220	4822 051 10561	560Ω 2% 0,25W	3342	4822
347	5322 122 31647	1nF 10% 63V	2632	5322 122 31842	330pF 2% 63V	3131	4822 116 52175	100Ω 5% 0,5W	3222	4822 116 52217	270Ω 5% 0,5W	3344	4822
353	4822 122 32862	10nF 80% 50V	2634	4822 121 42408	220nF 5% 63V	3132	4822 116 52175	100Ω 5% 0,5W	3224	4822 051 10759	75Ω 2% 0,25W	3345	4822
360	4822 124 40272	33μF 20% 16V	2636	5322 122 31842	330pF 2% 63V	3133	4822 051 10151	150Ω 2% 0,25W	3225	4822 051 10471	470Ω 2% 0,25W	3350	4822
361	4822 124 40849	330μF 20% 16V	2638	4822 121 42408	220nF 5% 63V	3134	4822 116 52175	100Ω 5% 0,5W	3232	4822 051 10102	1k 2% 0,25W	3351	4822
365	4822 122 31352	180pF 2% 100V	2640	5322 122 31842	330pF 2% 63V	3135	4822 051 10101	100Ω 2% 0,25W	3233	4822 051 10102	1k 2% 0,25W	3353	4822
366	4822 126 11544	22nF 63V	2642	4822 122 32927	220nF +80-20% 50V	3136	4822 051 10101	100Ω 2% 0,25W	3234	4822 051 10759	75Ω 2% 0,25W	3360	4822
367	4822 122 32862	10nF 80% 50V	2644	5322 122 31842	330pF 2% 63V	3137	4822 116 52175	100Ω 5% 0,5W	3235	4822 051 10759	75Ω 2% 0,25W	3361	4822
368	4822 122 32862	10nF 80% 50V	2646	4822 122 32927	220nF +80-20% 50V	3138	4822 116 52175	100Ω 5% 0,5W	3237	4822 116 52217	270Ω 5% 0,5W	3369	4822
369	4822 122 31825	27pF 2% 63V	2646	4822 122 32927	220nF +80-20% 50V	3139	4822 116 52175	100Ω 5% 0,5W	3238	4822 116 52222	390Ω 5% 0,5W	3370	4822
371	4822 122 31825	27pF 2% 63V	2658	4822 122 31961	68pF 2% 63V	3140	4822 050 11002	1k 1% 0,4W	3239	4822 051 10271	270Ω 2% 0,25W	3371	4822
372	4822 122 31965	220pF 2% 63V	2659	4822 122 31961	68pF 2% 63V	3141	4822 050 11002	1k 1% 0,4W	3240	4822 051 10759	75Ω 2% 0,25W	3372	4822
373	4822 122 31965	220pF 2% 63V	2660	5322 122 31647	1nF 10% 63V	3142	4822 050 11002	1k 1% 0,4W	3241	4822 051 10759	75Ω 2% 0,25W	3375	4822
			2662	5322 122 31647	1nF 10% 63V								
374	4822 126 11544	22nF 63V	2664	4822 122 32153	1,8nF 10% 63V	3143	4822 050 11002	1k 1% 0,4W	3242	4822 116 52219	330Ω 5% 0,5W	3377	4822
375	4822 126 11544	22nF 63V	2666	4822 122 32153	1,8nF 10% 63V	3144	4822 050 11002	1k 1% 0,4W	3243	4822 051 10152	1k 2% 0,25W	3380	4822
376	4822 126 11544	22nF 63V	2680	4822 122 31947	100nF 20% 63V	3145	4822 050 11002	1k 1% 0,4W	3244	4822 051 10102	1k 2% 0,25W	3382	4822
377	5322 121 42661	330nF 5% 63V	2681	4822 122 32542	47nF 10% 63V	3146	4822 050 11002	1k 1% 0,4W	3245	4822 051 10474	470k 2% 0,25W	3383	4822
378	4822 122 31947	100nF 20% 63V	2682	4822 124 40195	150μF 20% 16V	3148	4822 051 10473	47k 2% 0,25W	3246	4822 051 10331	330Ω 2% 0,25W	3387	4822
379	4822 125 50207	33pF trim	2684	4822 121 51252	470nF 5% 63V	3149	4822 051 10473	47k 2% 0,25W	3247	4822 051 10102	1k 2% 0,25W	3389	4822
380	4822 125 50207	33pF trim	2684	4822 121 51252	470nF 5% 63V	3150	4822 051 10473	47k 2% 0,25W	3248	4822 051 10681	680Ω 2% 0,25W	3391	4822
381	5322 121 42661	330nF 5% 63V	2686	4822 121 51252	470nF 5% 63V	3151	4822 051 10562	5k6 2% 0,25W	3249	4822 051 10102	1k 2% 0,25W	3392	4822
382	5322 122 31647	1nF 10% 63V	2688	4822 122 31782	15nF 10% 50V	3153	4822 051 10103	10k 2% 0,25W	3251	4822 051 10759	75Ω 2% 0,25W	3393	4822
383	4822 122 32442	10nF 50V	2690	4822 122 31782	15nF 10% 50V	3154	4822 051 10152	1k5 2% 0,25W	3252	4822 051 10759	75Ω 2% 0,25W	3394	4822
384	5322 122 31647	1nF 10% 63V	2692	4822 122 31981	33nF +0,5pF 50V	3155	4822 051 10104	100k 2% 0,25W	3253	4822 051 10331	330Ω 2% 0,25W	3395	4822
385	4822 122 32442	10nF 50V	2694	4822 122 31916	5,6nF 10% 63V	3156	4822 051 10562	5k6 2% 0,25W	3254	4822 052 10828	82Ω 5% 0,33W	3396	4822
387	4822 124 40435	10μF 20% 50V	2696	4822 122 31981	33nF +0,5pF 50V	3157	4822 050 11002	1k 1% 0,4W	3254	4822 116 81193	15Ω 5% 0,3W	3397	4822
388	5322 122 33446	3,3nF 10% 63V	2697	4822 122 32765	820pF 2% 63V	3158	4822 050 11002	1k 1% 0,4W	3255	4822 051 10821	820Ω 2% 0,25W	3397	4822
390	4822 126 11544	22n											

0,5W	3278	4822 051 10273	27k 2% 0,25W	3474	4822 051 10101	100Ω 2% 0,25W	4103	4822 051 10008	0Ω 5% 0,25W	5304	4822 157 53302	1μH 20%
% 0,125W	3279	4822 051 10689	68Ω 2% 0,25W	3475	4822 051 10124	120k 2% 0,25W	4107	4822 051 10008	0Ω 5% 0,25W	5305	4822 157 62823	26μH 6%
% 0,25W	3280	4822 051 10273	27k 2% 0,25W	3476	4822 051 10154	150k 2% 0,25W	4108	4822 051 10008	0Ω 5% 0,25W	5345	4822 157 62822	4,5μH 6%
0,5W	3281	4822 116 52201	75Ω 5% 0,5W	3477	4822 116 52286	5k1 5% 0,5W	4109	4822 051 10008	0Ω 5% 0,25W	5346	4822 157 62823	26μH 6%
0,25W	3285	4822 051 10103	10k 2% 0,25W	3478	4822 116 52224	470Ω 5% 0,5W	4110	4822 051 10008	0Ω 5% 0,25W	5370	4822 157 62824	7,5μH 6%
0,25W	3285	4822 051 10123	12k 2% 0,25W	3479	4822 051 10223	22k 2% 0,25W	4111	4822 051 10008	0Ω 5% 0,25W	5454	4822 157 63065	0,68μH 20%
0,25W	3286	4822 051 10103	10k 2% 0,25W	3480▲	4822 052 10278	2Ω 5% 0,33W	4112	4822 051 10008	0Ω 5% 0,25W	5455	4822 157 63065	0,68μH 20%
0,25W	3286	4822 051 10123	12k 2% 0,25W	3481▲	4822 052 10278	2Ω 5% 0,33W	4114	4822 051 10008	0Ω 5% 0,25W	5456	4822 157 63065	0,68μH 20%
0,25W	3287	4822 051 10103	10k 2% 0,25W	3482	4822 052 10431	430Ω 5% 0,33W	4115	4822 051 10008	0Ω 5% 0,25W	5460	4822 157 63065	0,68μH 20%
% 0,25W	3287	4822 051 10123	12k 2% 0,25W	3483	4822 116 52175	100Ω 5% 0,5W	4116	4822 051 10008	0Ω 5% 0,25W			
% 0,25W	3288	4822 051 10103	10k 2% 0,25W	3484	4822 051 10102	1k 2% 0,25W	4117	4822 051 10008	0Ω 5% 0,25W			
0,25W	3288	4822 051 10123	12k 2% 0,25W	3492	4822 116 52224	470Ω 5% 0,5W	4118	4822 051 10008	0Ω 5% 0,25W	6107	4822 130 81512	LLZ-C6V2
0,25W	3300	4822 051 10103	10k 2% 0,25W	3600	4822 051 10301	300Ω 2% 0,25W	4120	4822 051 10008	0Ω 5% 0,25W	6108	4822 130 81512	LLZ-C6V2
0,25W	3301	4822 051 10332	3k3 2% 0,25W	3602	4822 100 11212	2k2 30% lin	4127	4822 051 10008	0Ω 5% 0,25W	6112	4822 130 82334	BAS85
0,25W	3303	4822 051 10361	360Ω 2% 0,25W	3603	4822 051 10108	1Ω 5% 0,25W	4130	4822 051 10008	0Ω 5% 0,25W	6112▲	4822 051 10008	0Ω 5% 0,25W
0,25W	3304	4822 051 10101	100Ω 2% 0,25W	3604	4822 051 10272	2k7 2% 0,25W	4161	4822 051 10008	0Ω 5% 0,25W	6117	4822 130 80906	LLZ-F7V5
0,25W	3305	4822 051 10104	100k 2% 0,25W	3605	4822 051 10472	4k7 2% 0,25W	4162	4822 051 10008	0Ω 5% 0,25W	6120	4822 130 80446	LL4148
% 0,25W	3306	4822 051 10361	360Ω 2% 0,25W	3606▲	4822 052 10279	27Ω 5% 0,33W	4166	4822 051 10008	0Ω 5% 0,25W	6121	4822 130 80446	LL4148
% 0,25W	3310▲	4822 116 52283	4k7 5% 0,5W	3608	4822 051 10101	100Ω 2% 0,25W	4167	4822 051 10008	0Ω 5% 0,25W	6135	4822 130 80905	LLZ-F5V1
% 0,25W	3316	4822 051 10112	1k1 2% 0,25W	3610	4822 051 10101	100Ω 2% 0,25W	4170	4822 051 10008	0Ω 5% 0,25W	6136	4822 130 83086	LL4150
0,5W	3325	4822 051 10682	6k8 2% 0,25W	3612	4822 051 10102	1k 2% 0,25W	4171	4822 051 10008	0Ω 5% 0,25W	6163	4822 130 81226	LLZ-F33
0,25W	3326	4822 051 10332	3k3 2% 0,25W	3620	4822 051 10184	180k 2% 0,25W	4175	4822 051 10008	0Ω 5% 0,25W	6165	4822 130 80446	LL4148
0,33W	3326	4822 051 10103	10k 2% 0,25W	3622	4822 051 10184	180k 2% 0,25W	4184	4822 051 10008	0Ω 5% 0,25W	6166	4822 130 80446	LL4148
0,3W	3327	4822 051 10122	1k2 2% 0,25W	3624	4822 051 10102	1k 2% 0,25W	4200	4822 051 10008	0Ω 5% 0,25W	6168	4822 130 80446	LL4148
0,5W	3336	4822 051 10472	4k7 2% 0,25W	3626	4822 051 10184	180k 2% 0,25W	4201	4822 051 10008	0Ω 5% 0,25W	6172	4822 130 80906	LLZ-C7V5
0,25W	3338	4822 051 10391	390Ω 2% 0,25W	3628	4822 051 10102	1k 2% 0,25W	4203	4822 051 10008	0Ω 5% 0,25W	6173	4822 130 80446	LL4148
0,25W	3339	4822 051 10153	15k 2% 0,25W	3630	4822 051 10184	180k 2% 0,25W	4205	4822 051 10008	0Ω 5% 0,25W	6178	4822 130 81222	LLZ-C15
0,25W	3342	4822 051 20222	2k2 5% 0,1W	3632	4822 051 10102	1k 2% 0,25W	4210	4822 051 10008	0Ω 5% 0,25W	6205	4822 130 80446	LL4148
0,5W	3344	4822 051 10273	27k 2% 0,25W	3634	4822 051 10184	180k 2% 0,25W	4220	4822 051 10008	0Ω 5% 0,25W	6206	4822 130 80446	LL4148
0,25W	3345	4822 051 10102	1k 2% 0,25W	3636	4822 051 10102	1k 2% 0,25W	4234	4822 051 10008	0Ω 5% 0,25W	6207	4822 130 80446	LL4148
0,25W	3350	4822 051 51201	120Ω 1% 0,125W	3638	4822 051 10184	180k 2% 0,25W	4235	4822 051 10008	0Ω 5% 0,25W	6256	4822 130 80446	LL4148
0,25W	3351	4822 051 10472	4k7 2% 0,25W	3640	4822 051 10102	1k 2% 0,25W	4236	4822 051 10008	0Ω 5% 0,25W	6257	4822 130 80446	LL4148
0,25W	3353	4822 051 10332	3k3 2% 0,25W	3642	4822 051 10184	180k 2% 0,25W	4241	4822 051 10008	0Ω 5% 0,25W	6280	4822 130 80446	LL4148
0,25W	3360▲	4822 052 10278	2Ω 5% 0,33W	3644	4822 051 10102	1k 2% 0,25W	4246	4822 051 10008	0Ω 5% 0,25W	6280	4822 130 82334	BAS85
0,25W	3361	4822 051 10102	1k 2% 0,25W	3646	4822 051 10184	180k 2% 0,25W	4255	4822 051 10008	0Ω 5% 0,25W	6281	4822 130 80446	LL4148
0,5W	3369	4822 051 10331	330Ω 2% 0,25W	3650	4822 051 10392	3k9 2% 0,25W	4280	4822 051 10008	0Ω 5% 0,25W	6281	4822 130 82334	BAS85
0,5W	3370	4822 100 11391	330Ω 30% lin	3651	4822 051 10123	12k 2% 0,25W	4302	4822 051 10008	0Ω 5% 0,25W	6342	4822 130 80888	BA682
0,25W	3371	4822 051 10431	430Ω 2% 0,25W	3652	4822 051 10392	3k9 2% 0,25W	4304	4822 051 10008	0Ω 5% 0,25W	6343	4822 130 80888	BA682
0,25W	3372	4822 051 10331	330Ω 2% 0,25W	3653	4822 051 10123	12k 2% 0,25W	4306	4822 051 10008	0Ω 5% 0,25W	6345	4822 130 30841	1N4150
0,25W	3375	4822 116 80176	1Ω 5% 0,5W	3654	4822 116 52244	15k 5% 0,5W	4319	4822 051 10008	0Ω 5% 0,25W	6370	4822 130 83406	LLZ-F3V6
0,5W	3377	4822 051 10682	6k8 2% 0,25W	3660	4822 051 10331	330Ω 2% 0,25W	4321	4822 051 10008	0Ω 5% 0,25W	6386	4822 130 80446	LL4148
0,25W	3380	4822 050 11002	1k 1% 0,4W	3662	4822 051 10151	150Ω 2% 0,25W	4330	4822 051 10008	0Ω 5% 0,25W	6387	4822 130 80954	LLZ-C5V6
0,25W	3382	4822 051 20222	2k2 5% 0,1W	3664	4822 051 10331	330Ω 2% 0,25W	4331	4822 051 10008	0Ω 5% 0,25W	6450	4822 130 81512	LLZ-C6V2
0,25W	3383	4822 051 10333	3k3 2% 0,25W	3665▲	4822 116 81193	15Ω 5% 0,3W	4332	4822 051 10008	0Ω 5% 0,25W	6465	4822 130 80446	LL4148
0,25W	3387	4822 050 11002	1k 1% 0,4W	3666	4822 051 10151	150Ω 2% 0,25W	4334	4822 051 10008	0Ω 5% 0,25W	6470	4822 130 80446	LL4148
0,25W	3389	4822 051 10182	1k8 2% 0,25W	3668	4822 051 10331	330Ω 2% 0,25W	4360	4822 051 10008	0Ω 5% 0,25W	6471▲	4822 130 30621	1N4148
0,25W	3391	4822 051 20222	2k2 5% 0,1W	3672	4822 051 10331	330Ω 2% 0,25W	4361	4822 051 10008	0Ω 5% 0,25W	6478	4822 130 82345	LLZ-C22
0,25W	3392	4822 051 10101	100Ω 2% 0,25W	3680▲	4822 052 10279	27Ω 5% 0,33W	4362	4822 051 10008	0Ω 5% 0,25W	6479	4822 130 80877	BAV103
0,25W	3393	4822 051 10101	100Ω 2% 0,25W	3682	4822 051 10568	5Ω 2% 0,25W	4377	4822 051 10008	0Ω 5% 0,25W	6480	4822 130 82882	LLZ-F8V2
0,25W	3394	4822 051 10101	100Ω 2% 0,25W	3684	4822 116 52175	100Ω 5% 0,5W	4386	4822 051 10008	0Ω 5% 0,25W	6481	4822 130 80881	LLZ-C33
0,25W	3395	4822 051 10471	470Ω 2% 0,25W	3686	4822 116 52175	100Ω 5% 0,5W	4420	4822 051 10008	0Ω 5% 0,25W	6610▲	4822 130 30621	1N4148
0,33W	3396	4822 051 20222	2k2 5% 0,1W	3700	4822 116 52263	2k7 5% 0,5W	4440	4822 051 10008	0Ω 5% 0,25W	6660	4822 130 80446	LL4148
0,3W	3397	4822 116 81192	12Ω 5% 0,3W	3702	4822 051 10223	22k 2% 0,25W	4443	4822 051 20222	2k2 5% 0,1W	6661	4822 130 81223	LLZ-C2V4
0,25W	3397	4822 052 10259	24Ω 5% 0,33W	3704	4822 051 10102	1k 2% 0,25W	4452	4822 051 10008	0Ω 5% 0,25W	6662	4822 130 80446	LL4148
0,25W	3398	4822 116 52175	100Ω 5% 0,5W	3706▲	4822 116 81203	10Ω 5% 0,3W	4453	4822 051 10008	0Ω 5% 0,25W	6663	4822 130 81223	LLZ-C2V4
0,33W	3399	4822 116 52175	100Ω 5% 0,5W	3708	4822 051 10101	100Ω 2% 0,25W	4454	4822 051 10008	0Ω 5% 0,25W	6664	4822 130 80446	LL4148
0,3W	3410	4822 116 52224	470Ω 5% 0,5W	3710	4822 051 20183	18k 5% 0,1W	4460	4822 051 10008	0Ω 5% 0,25W	6665	4822 130 80446	LL4148
0,25W	3425	4822 116 52224	470Ω 5% 0,5W	3712	4822 116 52203	91Ω 5% 0,5W	4476	4822 051 10008	0Ω 5% 0,25W	7107	5322 130 41982	BC848B
0,25W	3426	4822 116 52224	470Ω 5% 0,5W	3713	4822 116 52203	91Ω 5% 0,5W	4477	4822 051 10008	0Ω 5% 0,25W	7108	4822 209 61887	MSM6307RS
0,25W	3439	4822 051 10221	220Ω 2% 0,25W	3714	4822 051 10828	8Ω 2% 0,25W	4496	4822 051 10008	0Ω 5% 0,25W	7119▲	5322 130 41982	BC848B
0,25W	3441	4822 051 10221	220Ω 2% 0,25W	3720▲	4822 116 81203	10Ω 5% 0,3W	4498	4822 051 10008	0Ω 5% 0,25W	7120▲	5322 130 41982	BC848B
0,												

# Spare parts list / Stückliste / Liste des pièces

0%	7186	4822 209 73852	PMBT2369
3%	7188	4822 130 60511	BC847B
6%	7193	4822 209 61115	LF353N
9%	7216	4822 130 42615	BC817-40
6%	7219	4822 209 63292	TEA6414
<hr/>			
+20%	7243	5322 130 41983	BC858B
+20%	7244▲	5322 130 41982	BC848B
+20%	7258	5322 209 10421	HEF4094BP
+20%	7260	4822 130 42615	BC817-40
	7261	5322 130 42136	BC848C
<hr/>			
6V2	7265▲	5322 130 41982	BC848B
5V2	7268	4822 130 42615	BC817-40
5	7270▲	5322 130 41982	BC848B
0,25W	7273	4822 130 42615	BC817-40
7V5	7305	5322 130 41983	BC858B
<hr/>			
8	7311▲	5322 130 41982	BC848B
8	7314	5322 130 42136	BC848C
8	7324	4822 209 63901	TDA4568/V2
5V1	7338▲	5322 130 41982	BC848B
0	7350▲	5322 130 41982	BC848B
33	7360	4822 130 42615	BC817-40
8	7365	4822 209 30837	TDA4660/V4/S1
8	7366	4822 209 31714	TDA4661/V2
8	7390	4822 130 42513	BC858C
7V5	7395	4822 209 30394	TDA8443B/C1
8	7410	4822 209 73852	PMBT2369
15	7430	4822 209 31592	TDA4680/V6
8	7450	5322 130 42755	BC847C
8	7451	5322 130 42755	BC847C
8	7471	5322 130 42136	BC848C
<hr/>			
8	7480	5322 130 44921	BD943
8	7492	5322 130 42136	BC848C
8	7600	4822 209 63967	TDA8417/V3
8	7620	4822 209 10263	4052B
8	7622	4822 209 10263	4052B
<hr/>			
0	7630	4822 209 61115	LF353N
3V6	7635	4822 209 61115	LF353N
5V6	7660▲	5322 130 41982	BC848B
5V2	7661▲	5322 130 41982	BC848B
3	7662▲	5322 130 41982	BC848B
3	7680	4822 209 63734	TDA8425/V7
3	7704▲	4822 209 83163	LM833N
3	7706▲	5322 130 41982	BC848B
3	7708	5322 130 41983	BC858B
3	7730▲	5322 130 41982	BC848B
<hr/>			
32	7732	5322 130 41983	BC858B

## Mains panel B (only FL2 styling)

Various

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

3201▲ 4822 053 21475 4M7 5% 0,5W

## Mains filter panel B (only FL2 styling)

Various

1002	4822 212 30783	Mains filter panel
▲	4822 265 30389	2P male
▲	4822 256 30496	fuse holder
1200▲	4822 070 33151	fuse 3,15A

2200▲ 4822 121 43819 680nF 10% 250V  
2203▲ 4822 121 40487 100nF 10% 400V

3203 4822 111 41573 470Ω  
3204 4822 116 40138 PTC  
3209▲ 4822 113 80603 1,5Ω 10% 7W

5202 4822 157 10291 transf.assy  
CU28D5

## Led panel H (only FL2 styling)

Various

1003	4822 212 30765	Led panel
	4822 265 31096	3P grey
	4822 265 31097	4P grey
	4822 256 92079	led holder
1100	4822 212 23281	IR receiver

2100 4822 124 40684 150μF 20% 6,3V  
2131 4822 124 22606 68μF 20% 16V

3100 4822 051 10102 1k 2% 0,25W  
3128 4822 051 10471 470Ω 2% 0,25W  
3198 4822 051 10181 180Ω 2% 0,25W  
3199 4822 051 10181 180Ω 2% 0,25W

4129 4822 051 10008 0Ω 5% 0,25W

5100 4822 157 53906 47μH

6128 4822 130 80313 TLHG4400  
6129 4822 130 83414 TLHR4405

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

## Control panel H (only FL2 styling)

Various

1004	4822 212 30766	Control panel
	4822 276 13396	tack switch
	4822 265 31097	4P grey
	4822 265 41334	10P grey

3148 4822 051 10473 47k 2% 0,25W  
3149 4822 051 10473 47k 2% 0,25W  
3150 4822 051 10473 47k 2% 0,25W  
3161 4822 116 52224 470Ω 5% 0,5W  
3162 4822 116 52224 470Ω 5% 0,5W

3163 4822 116 52224 470Ω 5% 0,5W  
3164 4822 116 52224 470Ω 5% 0,5W  
3165 4822 116 52224 470Ω 5% 0,5W  
3166 4822 051 10471 470Ω 2% 0,25W  
3167 4822 051 10471 470Ω 2% 0,25W

Jumper

4101	4822 051 10008	0Ω 5% 0,25W
4102	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4104	4822 051 10008	0Ω 5% 0,25W

6131 4822 130 83407 LSS260-DO  
6132 4822 130 83407 LSS260-DO  
6133 4822 130 83407 LSS260-DO  
6134 4822 130 83407 LSS260-DO  
6135 4822 130 83407 LSS260-DO

6136 4822 130 83407 LSS260-DO  
6137 4822 130 83407 LSS260-DO

7131 5322 130 42012 BC858  
7132 5322 130 42012 BC858  
7133 5322 130 42012 BC858  
7134 5322 130 42012 BC858  
7135 5322 130 42012 BC858

7136 5322 130 42012 BC858  
7137 5322 130 42012 BC858

## Connector panel C (only FL2 styling)

Various

1005	4822 212 30764	Connector panel
	4822 267 20454	socket headph.
		+cinch+SVHS
	4822 264 40207	3P male
	4822 265 41335	11P

2241 4822 121 42408 220nF 5% 63V  
2640 5322 122 31842 330pF 2% 63V  
2644 5322 122 31842 330pF 2% 63V  
2716 4822 122 32597 6,8nF 10% 63V  
2736 4822 122 32597 6,8nF 10% 63V

3241 4822 051 10759 75Ω 2% 0,25W  
3251 4822 051 10759 75Ω 2% 0,25W  
3252 4822 051 10759 75Ω 2% 0,25W  
3640 4822 051 10102 1k 2% 0,25W  
3644 4822 051 10102 1k 2% 0,25W

Jumper

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

## Scavem amplifier panel

Various

1002	4822 212 23804	Scavem panel
	4822 265 20509	2P grey
	4822 265 30351	5P male
	4822 264 40207	3P male
	4822 265 20512	2P green

2420 4822 122 31797 22nF 10% 63V  
2490 4822 124 40435 10μF 20% 50V  
2491 4822 122 33496 100nF 10% 63V  
2604 4822 124 22427 47μF 20% 40V  
2605 4822 122 33496 100nF 10% 63V

2606 4822 124 22427 47μF 20% 40V  
2607 4822 122 33496 100nF 10% 63V  
2620 4822 122 33496 100nF 10% 63V  
2622▲ 4822 122 32442 10nF 50V  
2624 4822 122 33496 100nF 10% 63V

2625 4822 124 40255 100μF 20% 63V  
2626 4822 122 31727 470pF 2% 63V

2627 4822 122 31727 470pF 2% 63V  
2632 4822 122 33496 100nF 10% 63V  
2633 4822 122 33496 100nF 10% 63V  
2634 4822 122 33496 100nF 10% 63V  
2635 4822 122 33496 100nF 10% 63V

2636 4822 122 33496 100nF 10% 63V  
2637 4822 122 33496 100nF 10% 63V  
2647 4822 124 40255 100μF 20% 63V  
2671 4822 122 31768 180pF 2% 63V  
2672 4822 122 31768 180pF 2% 63V

3400 4822 051 10473 47k 2% 0,25W  
3401 4822 051 10104 100k 2% 0,25W  
3402 4822 051 10104 100k 2% 0,25W  
3410 4822 051 10473 47k 2% 0,25W  
3411 4822 051 10104 100k 2% 0,25W

3412 4822 051 10104 100k 2% 0,25W  
3413 4822 050 11002 1k 1% 0,4W  
3420 4822 051 10473 47k 2% 0,25W  
3421 4822 051 10473 47k 2% 0,25W  
3423 4822 051 10104 100k 2% 0,25W

3424 4822 051 10104 100k 2% 0,25W  
3425 4822 051 10473 47k 2% 0,25W  
3426 4822 053 12821 820Ω 5% 3W  
3430 4822 051 10473 47k 2% 0,25W  
3431 4822 051 10473 47k 2% 0,25W

3432 4822 051 10103 10k 2% 0,25W  
3433 4822 051 10104 100k 2% 0,25W  
3434 4822 051 10104 100k 2% 0,25W  
3435 4822 051 10473 47k 2% 0,25W  
3440 4822 051 10101 100Ω 2% 0,25W

3441 4822 051 10101 100Ω 2% 0,25W  
3490 4822 116 52276 3k9 5% 0,5W  
3491 4822 116 52276 3k9 5% 0,5W  
3609▲ 4822 052 10478 4Ω 7% 0,33W  
3610▲ 4822 052 10478 4Ω 7% 0,33W

3630▲ 4822 053 10331 330Ω 5% 1W  
3631▲ 4822 053 10331 330Ω 5% 1W  
3633 4822 051 10152 1k5 2% 0,25W  
3634 4822 051 10132 1k3 2% 0,25W  
3635 4822 051 10339 33Ω 2% 0,25W

3636 4822 051 10479 47Ω 2% 0,25W  
3637▲ 4822 116 52215 220Ω 5% 0,5W  
3638▲ 4822 053 10331 330Ω 5% 1W  
3639▲ 4822 053 10331 330Ω 5% 1W  
3640 202 2k 2% 0,25W

3658 4822 051 10331 330Ω 2% 0,25W  
3659 4822 051 10202 2k 2% 0,25W  
3661 4822 051 10912 9k1 2% 0,25W  
3670 4822 051 10822 8k2 2% 0,25W  
3671 4822 051 10822 8k2 2% 0,25W

Jumper

4612	4822 051 10008	0Ω 5% 0,25W
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5612 4822 157 63507 0,18μH  
5613 4822 157 63507 0,18μH  
5614 4822 157 63507 0,18μH  
5615 4822 157 63507 0,18μH  
5630 4822 157 50965 15μH 10%

5631 4822 157 50965 15μH 10%  
5632 4822 157 50965 15μH 10%  
5633 4822 157 50965 15μH 10%

6426 4822 130 80906 LLZ-C7V5  
6427 4822 130 80906 LLZ-C7V5  
6490 4822 130 80884 LLZ-C5V1  
6610 4822 130 80884 LLZ-C5V1  
6616 4822 130 80884 LLZ-C5V1

# Spare parts list / Stückliste / Liste des pièces

7400	4822 130 42705	BC847
7401	5322 130 42756	BC857C
7410	4822 130 42705	BC847
7411	5322 130 42756	BC857C
7420	4822 130 42705	BC847

7421	4822 130 42705	BC847
7423	5322 130 42756	BC857C
7425	5322 130 42756	BC847C
7430	4822 130 42705	BC847
7431	4822 130 42705	BC847

7433	5322 130 42756	BC857C
7435	5322 130 42756	BC847C
7440	4822 209 63896	PCF8574AP
7608	4822 130 61207	BC848
7610	4822 130 41746	BD825

7611	4822 130 42589	BF370
7612	4822 130 41746	BD825
7613	4822 130 41774	BD826
7614	4822 130 41746	BD825
7615	4822 130 41774	BD826

7616	4822 130 41746	BD825
7617	4822 130 42589	BF370
7618	4822 130 42705	BC847
7619	4822 130 61233	BC857
7620	4822 130 42705	BC847

7621	4822 130 61233	BC857
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## DAF panel

Various			
1003	4822 212 23805	DAF panel	
▲	4822 265 40596	2P male	
	4822 267 41018	2P male	
	4822 265 20509	2P male grey	

-II-			
2860	4822 126 12084	390pF 10% 2kV	
2861	4822 126 12084	390pF 10% 2kV	

-I-			
3301	4822 116 21211	VDR	
3302	4822 116 21211	VDR	

5860	4822 148 81242	transf. DAF	
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## Scavem filter panel

Various			
1005	4822 212 23819	Scavem filter	
	4822 265 31072	5P male	
	4822 265 31085	5P male	

-II-			
2500	4822 122 31774	56pF 2% 63V	
2501	4822 124 40435	10µF 20% 50V	
2502	4822 124 40255	100µF 20% 63V	
2503▲	4822 122 32442	10nF 50V	
2508	4822 122 33496	100nF 10% 63V	

2509▲	4822 122 32442	10nF 50V	
2510	4822 126 11492	220nF 10% 50V	
2511	4822 122 31767	150pF 2% 63V	
2512	4822 122 33496	100nF 10% 63V	
2513	4822 122 33496	100nF 10% 63V	

2514▲	4822 122 32442	10nF 50V	
2515▲	4822 122 32442	10nF 50V	
2516	4822 122 31767	150pF 2% 63V	
2517	4822 122 32083	8,2pF 5% 50V	
2518	4822 122 32083	8,2pF 5% 50V	

2519▲	4822 122 32442	10nF 50V	
2529	4822 122 33496	100nF 10% 63V	

3500	4822 051 10821	820Ω 2% 0,25W	
3501	4822 116 52214	200Ω 5% 0,5W	
3507▲	4822 052 10478	407 5% 0,33W	
3512	4822 051 10101	100Ω 2% 0,25W	
3513	4822 051 10103	10k 2% 0,25W	

3514	4822 051 10334	330k 2% 0,25W	
3515	4822 051 10123	12k 2% 0,25W	
3516	4822 051 10391	390Ω 2% 0,25W	
3517	4822 051 10561	560Ω 2% 0,25W	
3518	4822 051 10271	270Ω 2% 0,25W	

3519	4822 051 10271	270Ω 2% 0,25W	
3521	4822 051 10101	100Ω 2% 0,25W	
3522	4822 051 10182	1k8 2% 0,25W	
3523	4822 051 10182	1k8 2% 0,25W	
3524	4822 051 10339	33Ω 2% 0,25W	

3524	4822 051 10221	220Ω 2% 0,25W	
3525	4822 051 10102	1k 2% 0,25W	
3526	4822 051 10102	1k 2% 0,25W	
3527	4822 051 10471	470Ω 2% 0,25W	
3528	4822 051 10829	82Ω 2% 0,25W	

3529	4822 051 10682	6k8 2% 0,25W	
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## Jumper

4502	4822 051 10008	0Ω 5% 0,25W	
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5501	4822 157 50965	15µH 10%	
5502	4822 157 50965	15µH 10%	
5503	4822 157 50965	15µH 10%	

-II-			
6502	4822 130 80446	LL4148	
6503	5322 130 34337	BAV99	
6504	5322 130 34337	BAV99	
6505	5322 130 34337	BAV99	

-I-			
7503	4822 130 61207	BC848	
7504	4822 209 30404	NE592/N8	
7505	4822 130 41594	PH2369	
7506	4822 130 61207	BC848	
7507	4822 130 61207	BC848	

7509	5322 130 60646	BSR57	
7525	5322 130 42012	BC858	

## Panoramic-view panel

Various			
1028	4822 212 30832	Panoramic view 32"	
1028	4822 212 30833	Panoramic view 28"	
1028	4822 212 30835	Panoramic view 36"	
	4822 265 20509	2P grey	
	4822 267 41018	2P red	
	4822 267 40666	3P male	
	4822 264 40207	3P male	

-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	
2110▲	4822 121 43397	680nF 5% 250V	
2140	4822 126 12784	22nF +80-20% 100V	
2141	4822 124 40255	100µF 20% 63V	

3100	4822 116 52258	220k 5% 0,5W	
3101	4822 116 52274	36k 5% 0,5W	
3102▲	4822 116 52215	220Ω 5% 0,5W	
3105	4822 116 52267	30k 5% 0,5W	
3106	4822 116 52267	30k 5% 0,5W	

3110▲	4822 116 52197	56Ω 5% 0,5W	
3111▲	4822 116 52197	56Ω 5% 0,5W	
3115	4822 116 80176	1Ω 5% 0,5W	
3121	4822 116 52296	6k8 5% 0,5W	
3122	4822 116 52296	6k8 5% 0,5W	

3140	4822 116 52175	100Ω 5% 0,5W	
3141	4822 116 52175	100Ω 5% 0,5W	
3142▲	4822 116 52283	4k7 5% 0,5W	
3143	4822 116 52256	2k2 5% 0,5W	
3144▲	4822 116 52283	4k7 5% 0,5W	

3145	4822 116 52296	6k8 5% 0,5W	
3146	4822 116 52296	6k8 5% 0,5W	
3198	4822 051 10333	33k 2% 0,25W	
3198	4822 116 52264	27k 5% 0,5W	
3198	4822 116 52274	36k 5% 0,5W	

3199	4822 051 10333	33k 2% 0,25W	
3199	4822 116 52264	27k 5% 0,5W	
3199	4822 116 52274	36k 5% 0,5W	

5110	4822 157 63256	coil CU15	
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-II-			
6100▲	4822 130 32896	BYD33M	
6101▲	4822 130 32896	BYD33M	
6103	4822 130 34499	BZX79-C20	
6120	4822 130 34233	BZX79-C5V1	

-I-			
7100	4822 130 63364	IRFI640G	
7140	4822 209 63896	PCF8574AP	
7141	4822 130 44257	BC547	
7142▲	4822 209 32126	SOC1012T	

## Picture tube panel E

1040	4822 212 30789	PTP-16/9-28"	
1040	4822 212 30791	PTP-16/9-32"	
1040	4822 212 23803	PTP-16/9-36"	
1040	4822 212 30782	PTP-4/3-25"-28"	
1040	4822 212 30856	PTP-4/3-33"	

4822 267 51249	socket for CRT 28" 16/9		
4822 267 51248	socket for CRT 32" 16/9		
4822 255 70246	socket for CRT 36" 16/9		
4822 267 51225	socket for CRT 4/3		
4822 265 20509	2P male grey		
▲ 4822 265 40596	2P male Vg2		
4822 267 40985	6P male		
4822 265 41107	7P male		

Various			
4822 492 70788	spring fix IC bracket		
4822 404 31199			

-II-			
2700	4822 126 11824	100pF 10% 1kV	
2701	4822 122 32507	6,8pF 55 50V	
2701	4822 122 31971	10pF 10% 50V	
2701	4822 122 32139	12pF 2% 63V	
2702	4822 122 31784	4,7nF 10% 50V	

2703	4822 121 42068	33nF 10% 400V	
2704	4822 122 31746	1000pF 2% 63V	
2705	4822 124 40433	47µF 20% 25V	
2705	4822 124 40196	220µF 20% 16V	
2706	4822 122 31797	22nF 10% 63V	

2707	4822 121 51562	33nF 1,6kV	
2707	4822 121 70093	33nF 5% 2kV	
2708	5322 122 31842	330pF 2% 63V	
2708	4822 122 31773	560pF 2% 63V	
2709	4822 124 80091	4,7µF 20% 250V	

2710	4822 122 31797	22nF 10% 63V	
2711	4822 122 32507	6,8pF 55 50V	
2711	4822 122 31971	10pF 2% 63V	
2712	4822 122 31784	4,7nF 10% 50V	
2713	4822 121 42068	33nF 10% 400V	

2714	4822 122 31746	1000pF 2% 63V	
2715	4822 121 42068	33nF 10% 400V	
2720	4822 122 31825	27pF 2% 63V	
2721	4822 122 31971	10pF 2% 63V	
2721	4822 122 32504	15pF 2% 63V	

2722	4822 122 31784	4,7nF 10% 50V	
2724	4822 122 31746	1000pF 2% 63V	
2725	4822 122 31774	56pF 2% 63V	
2726	4822 122 31774	56pF 2% 63V	
2727	4822 122 31774	56pF 2% 63V	

2729	4822 121 41156	68nF 10% 250V	
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3700	4822 051 20222	2k2 5% 0,1W	
3701▲	4822 052 11108	1Ω 5% 0,5W	
3701	4822 052 11338	3Ω 3 5% 0,5W	
3702	4822 051 10201	200Ω 2% 0,25W	
3703▲	4822 052 11108	1Ω 5% 0,5W	

3703	4822 052 11338	3Ω 3 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	

Table with 3 columns: Part Number, Description, Value. Includes values like 3739 4822 101 11185 47k 10%, 3740 4822 050 21604 160k 1% 0,6W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3744 4822 116 52221 360Ω 5% 0,5W, 3742 4822 116 52221 360Ω 5% 0,5W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3744 4822 052 10229 22Ω 5% 0,33W, 3750 4822 051 10103 10k 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 5700 4822 157 70636 82μH 5%, 5700 4822 157 70635 33μH 7,5%, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 6700 4822 130 80879 LLZ-C3V0, 6701 4822 130 80877 BAV103, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 6708 4822 130 32896 BYD33M, 6709 4822 130 82969 BZD23-C24, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 7704 4822 130 60373 BC856B, 7705 4822 209 30417 TDA6111Q/N2, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 1750 4822 212 30795 LFR box FL.1.16, 1750 4822 212 30796 LFR box FL.1.14, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 1001 4822 242 72572 crystal 12MHz, 1002 4822 242 71417 crystal 13,875 MHz, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2000 4822 122 33496 100nF 10% 63V, 2001 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2005 4822 122 33496 100nF 10% 63V, 2006 4822 124 40731 330μF 20% 6,3V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2012 4822 122 33496 100nF 10% 63V, 2013 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2018 4822 122 33496 100nF 10% 63V, 2022 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2026 4822 122 32083 8,2pF 5% 50V, 2027 4822 122 31961 68pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2028 4822 122 31772 47pF 2% 63V, 2029 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2033 4822 122 32083 8,2pF 5% 50V, 2034 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2044 4822 122 32442 10nF 50V, 2045 4822 124 41576 2,2μF 20% 50V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2049 4822 122 33496 100nF 10% 63V, 2050 4822 124 41997 470μF 10V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2054 4822 122 32504 15pF 2% 63V, 2055 5322 122 31647 1nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2064 4822 124 41643 100μF 20% 16V, 2065 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2069 4822 122 33496 100nF 10% 63V, 2070 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2074 4822 122 31981 33nF 5% 50V, 2075 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2079 4822 121 42937 2,7nF 1% 250V, 2080 5322 124 41431 22μF 20% 35V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2084 4822 122 33496 100nF 10% 63V, 2085 4822 122 31765 100pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2090 4822 122 31772 47pF 2% 63V, 2091 4822 122 31746 1000pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2099 4822 122 33496 100nF 10% 63V, 2100 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2106 4822 124 41643 100μF 20% 16V, 2107 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2111 5322 122 31842 330pF 2% 63V, 2112 4822 122 32442 10nF 50V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2116 4822 122 31768 180pF 2% 63V, 2117 4822 122 32442 10nF 50V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2121 4822 122 31965 220pF 2% 63V, 2122 5322 122 31842 330pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2126 4822 122 33496 100nF 10% 63V, 2127 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2131 4822 122 31825 27pF 2% 63V, 2132 5322 122 31842 330pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2150 4822 124 40433 47μF 20% 25V, 2151 4822 122 31772 47pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2166 4822 122 31772 47pF 2% 63V, 2167 4822 122 31772 47pF 2% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2172 4822 122 31839 82pF 2% 63V, 2175 4822 122 33496 100nF 10% 63V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 2184 4822 122 32139 12pF 2% 63V, 2185 4822 124 40433 47μF 20% 25V, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3000 4822 051 10162 1k6 2% 0,25W, 3001 4822 111 41424 22Ω 5% 0,3W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3006 4822 050 24708 4Ω 7 1% 0,6W, 3007 4822 051 10209 20Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3012 4822 051 10339 33Ω 2% 0,25W, 3013 4822 051 52201 220Ω 1% 0,125W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3019 4822 111 41423 18Ω 5% 0,3W, 3021 4822 051 10101 100Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3025 4822 051 10102 1k 2% 0,25W, 3026 4822 051 10181 180Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3030 4822 051 10681 680Ω 2% 0,25W, 3031 4822 051 10561 560Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3035 4822 051 20222 2k2 5% 0,1W, 3036 4822 051 10221 220Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3040 4822 051 10104 100k 2% 0,25W, 3041 4822 051 10561 560Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3045 4822 051 10162 1k6 2% 0,25W, 3046 4822 051 10272 2k7 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3050 4822 051 10122 1k2 2% 0,25W, 3051 4822 051 10333 33k 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3055 4822 051 10201 200Ω 2% 0,25W, 3055 4822 051 10221 220Ω 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3058 4822 051 10472 4k7 2% 0,25W, 3060 4822 051 10123 12k 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3064 4822 051 10104 100k 2% 0,25W, 3065 4822 051 10223 22k 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3071 4822 051 10008 0Ω 5% 0,25W, 3074 4822 051 10242 2k4 2% 0,25W, etc.

Table with 3 columns: Part Number, Description, Value. Includes values like 3086 4822 051 10473 47k 2% 0,25W, 3087 4822 051 10151 150Ω 2% 0,25W, etc.





## PIP panel J

2623	4822 122 31797	22nF 10% 63V
2627	4822 122 32927	220nF +80-20%
		50V
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3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
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3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% lin
3158	4822 051 10759	75Ω 2% 0,25W
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3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
<hr/>		
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
<hr/>		
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W
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3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
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3235	4822 051 10202	2k 2% 0,25W
3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% lin
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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
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3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 10103	10k 2% 0,25W 1)
3330	4822 051 10473	47k 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W 1)
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3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3336	4822 051 10682	6k8 2% 0,25W
3337	4822 050 11002	1k 1% 0,4W
3337	4822 116 52207	1k2 5% 0,5W
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3338	4822 051 10332	3k3 2% 0,25W
3340	4822 116 52253	2k 5% 0,5W
3341▲	4822 052 10129	12Ω 5% 0,33W
3341▲	4822 111 41424	22Ω 5% 0,3W
3345▲	4822 111 41424	22Ω 5% 0,3W
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3353▲	4822 052 10568	5Ω 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3354	4822 051 10331	330Ω 2% 0,25W
3376	4822 051 10008	0Ω 5% 0,25W
3376	4822 051 10102	1k 2% 0,25W
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3377	4822 051 10008	0Ω 5% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10008	0Ω 5% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
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3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3396	4822 116 52232	910Ω 5% 0,5W

3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10271	270Ω 2% 0,25W
3406	4822 051 10162	1k6 2% 0,25W
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3407	4822 051 10332	3k3 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
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3414	4822 051 10101	100Ω 2% 0,25W
3414	4822 051 10181	180Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3420	4822 116 52184	18k 5% 0,5W
3434	4822 051 10473	47k 2% 0,25W
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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
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3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
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3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W
3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
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3464	4822 051 10102	1k 2% 0,25W
3464	4822 051 10472	4k7 2% 0,25W
3467	4822 116 52256	2k2 5% 0,5W
3471	4822 051 10752	7k5 2% 0,25W
3471	4822 051 10103	10k 2% 0,25W
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3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3474	4822 116 52277	39k 5% 0,5W
3475	4822 051 10821	820Ω 2% 0,25W
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3476	4822 051 10152	1k5 2% 0,25W
3600	4822 051 10103	10k 2% 0,25W
3601	4822 051 10103	10k 2% 0,25W
3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
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3604▲	4822 052 10158	1Ω 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% lin
3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
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3613	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	12k 2% 0,25W
3615	4822 051 10822	8k2 2% 0,25W
3616	4822 116 52229	750Ω 5% 0,5W
3616	4822 050 11002	1k 1% 0,4W
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3617	4822 051 10751	750Ω 2% 0,25W
3617	4822 051 10102	1k 2% 0,25W
3618▲	4822 052 10568	5Ω 5% 0,33W
3619	4822 051 10471	470Ω 2% 0,25W
3620	4822 051 20222	2k2 5% 0,1W
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3621	4822 051 10105	1M 5% 0,25W
3622	4822 051 10272	2k7 2% 0,25W
3624	4822 051 10272	2k7 2% 0,25W
3625	4822 051 10511	510Ω 2% 0,25W
3630	4822 051 10101	100Ω 2% 0,25W
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3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3633	4822 051 10124	120k 2% 0,25W
3634	4822 051 10104	100k 2% 0,25W
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3634	4822 051 10124	120k 2% 0,25W
3635	4822 051 10562	5k6 2% 0,25W
3636	4822 051 10911	910Ω 2% 0,25W
3637	4822 051 20183	18k 5% 0,1W

3638	4822 051 10362	3k6 2% 0,25W
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<b>Jumper</b>		
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4003	5322 122 31647	1nF 10% 63V
4007	4822 051 10008	0Ω 5% 0,25W
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4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
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4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4017	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
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4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4022	4822 051 10008	0Ω 5% 0,25W
4024	4822 051 10008	0Ω 5% 0,25W
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4025	4822 051 10008	0Ω 5% 0,25W
4026	4822 051 10008	0Ω 5% 0,25W
4027	4822 051 10008	0Ω 5% 0,25W
4028	4822 051 10008	0Ω 5% 0,25W
4029	4822 051 10008	0Ω 5% 0,25W 404625W
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4415	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4418	4822 051 10008	0Ω 5% 0,25W
4419	4822 051 10008	0Ω 5% 0,25W
4420	4822 051 10008	0Ω 5% 0,25W
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4421	4822 051 10008	0Ω 5% 0,25W
4631	4822 051 10008	0Ω 5% 0,25W
4632	4822 051 10008	0Ω 5% 0,25W
4633	4822 051 10008	0Ω 5% 0,25W
4634	4822 051 10008	0Ω 5% 0,25W
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5118	4822 157 60435	10,3μH 4,86MHz trim
5155	4822 157 60433	7,2μH 4,4MHz trim
5157	4822 157 60434	9,4μH 4,4MHz trim
5170	4822 157 60432	10,3μH 4,4MHz trim
5175	4822 157 60432	10,3μH 4,4MHz trim
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5190	4822 157 60432	10,3μH 4,4MHz trim
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5400	4822 157 50943	12μH 10%
5402	4822 157 50943	12μH 10%
5403	4822 157 52333	100μH 10%
5406	4822 157 50943	12μH 10%
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5408	4822 157 50943	12μH 10%
5410	4822 157 50943	12μH 10%
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6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148
6464	5322 130 31504	BZX79-B3V3
6471	4822 130 81227	BZV55-F5V6
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7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 63927	TDA4554/V1
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
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7233	5322 130 41982	BC848B
7234	5322 130 41982	BC848B
7235	5322 130 41982	BC848B

7330	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338		

### II

8B	2029	4822 122 32999	2,2nF 5% 50V
8B	2030	4822 122 32999	2,2nF 5% 50V
8B	2031	4822 126 10171	2700pF 2% 63V
8B	2032	4822 122 31773	560pF 2% 63V
8-40	2033	4822 126 11492	220nF 10% 63V
114A	2034	4822 126 11492	220nF 10% 63V
8B	2035	4822 122 31746	1000pF 2% 63V
8B	2036▲	4822 122 32442	10nF 50V
8B	2037▲	4822 122 32442	10nF 50V
087	2038	4822 122 31797	22nF 10% 63V

088-2WS	2039	4822 126 11691	150nF 10% 63V
088-2 (16.9)	2041	5322 122 31647	1nF 10% 63V
086-3	2042	4822 126 10183	330pF 10% 63V
2369	2043	5322 122 31647	1nF 10% 63V
6-16	2044	5322 122 31647	1nF 10% 63V

90	2050	4822 124 40433	47µF 20% 25V
90	2051	5322 122 31647	1nF 10% 63V
8B	2245	5322 122 31647	1nF 10% 63V
349A/N3	2246	5322 122 31647	1nF 10% 63V
300AQ/N6			

### □

579B/N2	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

NICAM PAL	3007	4822 051 10223	22k 2% 0,25W
	3008	4822 051 10223	22k 2% 0,25W
NICAM PAL I	3009	4822 051 10392	3k9 2% 0,25W
strip	3010	4822 051 10104	100k 2% 0,25W
	3011	4822 051 10104	100k 2% 0,25W

17,472MHz	3012	4822 053 20106	10M 5% 0,25W
H316BOM-DAF	3013	4822 051 10824	820k 2% 0,25W
	3014	4822 051 10103	10k 2% 0,25W
H316BQM	3015	4822 051 10682	6k8 2% 0,25W
11.700MHz	3015	4822 051 10123	12k 2% 0,25W

13.104MHz	3016	4822 051 10122	1k2 2% 0,25W
H316BQM	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

20% 63V	3018	4822 051 10123	12k 2% 0,25W
20% 25V	3019	4822 051 10752	7k5 2% 0,25W
10% 63V	3019	4822 051 10562	5k6 2% 0,25W
10% 63V	3020	4822 051 10472	4k7 2% 0,25W
2% 63V	3020	4822 051 10472	4k7 2% 0,25W

2% 63V	3022	4822 051 10472	4k7 2% 0,25W
2% 63V	3023	4822 051 10472	4k7 2% 0,25W
10% 63V	3024	4822 051 10184	180k 2% 0,25W
2% 63V	3025	4822 051 10184	180k 2% 0,25W
50V	3026	4822 051 10101	100Ω 2% 0,25W

2% 63V	3027	4822 051 10101	100Ω 2% 0,25W
2% 63V	3028	4822 051 10103	10k 2% 0,25W
5% 63V	3029▲	4822 052 10109	10Ω 5% 0,33W
2% 63V	3030	4822 051 10102	1k 2% 0,25W
50V	3031	4822 051 10102	1k 2% 0,25W

5m	3032	4822 051 10569	56Ω 2% 0,25W
5% 63V	3033	4822 051 20222	2k2 5% 0,1W
5% 63V	3034	4822 051 10431	430Ω 2% 0,25W
50V	3035	4822 051 10241	240Ω 2% 0,25W
0% 63V	3036	4822 051 10102	1k 2% 0,25W

0% 25V	3037	4822 051 10159	15Ω 2% 0,25W
0% 50V	3049	4822 051 10223	22k 2% 0,25W
10% 63V	3050	4822 051 10123	12k 2% 0,25W
% 50V	3099	4822 051 10101	100Ω 2% 0,25W
	3099	4822 051 51201	120Ω 1% 0,125W

### Jumper

0% 50V	4002	4822 051 10008	0Ω 5% 0,25W
10% 63V	4003	4822 051 10008	0Ω 5% 0,25W
0% 63V	4005	4822 051 10008	0Ω 5% 0,25W
	4052	4822 051 10008	0Ω 5% 0,25W
0% 25V	4053	4822 051 10008	0Ω 5% 0,25W
2% 63V			
2% 63V	4054	4822 051 10008	0Ω 5% 0,25W

### Jumper

4055	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W
5000	4822 157 50975	1mH 10%
5001	4822 157 50975	1mH 10%
5002	4822 157 70458	4,7µH 10%
5003	4822 157 70458	4,7µH 10%

### II

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



7000	4822 209 30909	TDA8732/C1
7001▲	4822 209 30914	SAAT280/M3
7002▲	4822 209 83163	LM833N
7003▲	4822 209 83163	LM833N
7004	5322 209 10576	4053B

7007	4822 209 73236	TDA1543/N2
7008	5322 130 42755	BC847C
7009	4822 130 60887	BF840
7050	5322 130 42136	BC848C

### Y/C detector I

#### Various

1021	4822 212 23929	Y/C detector panel
	4822 265 40503	5P female gold plated
	4822 265 30431	3P female gold plated
1231	4822 242 80364	filter 4,43MHz

### II

2225▲	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF +80-20% 50V
2228	4822 122 32927	220nF +80-20% 50V
2235	4822 122 31965	220pF 2% 63V
2236	4822 122 31772	47pF 2% 63V
2237	4822 122 32142	270pF 2% 63V
2238	4822 122 31768	180pF 2% 63V
2239	4822 122 31947	100nF 20% 63V
2244	4822 124 20722	1µF 10% 63V
2246	4822 122 31947	100nF 20% 63V
2247	4822 122 31766	120pF 2% 63V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 2% 63V
2269	4822 124 20726	4,7µF 10% 63V



3200	4822 050 11002	1k 1% 0,4W
3201	4822 116 83006	2M7 5% 0,5W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 051 10103	10k 2% 0,25W
3212	4822 051 10751	750Ω 2% 0,25W
3213	4822 051 10153	15k 2% 0,25W
3214	4822 051 10153	15k 2% 0,25W
3221	4822 051 10472	4k7 2% 0,25W
3223	4822 116 52203	91Ω 5% 0,5W
3225▲	4822 116 52219	330Ω 5% 0,5W
3226	4822 116 52243	1k5 5% 0,5W
3227	4822 051 10112	1k1 2% 0,25W
3228	4822 051 10474	470k 2% 0,25W
3229	4822 051 10331	330Ω 2% 0,25W
3230	4822 051 10102	1k 2% 0,25W

3231	4822 051 10681	680Ω 2% 0,25W
3236	4822 051 10331	330Ω 2% 0,25W
3250	4822 051 10151	150Ω 2% 0,25W
3258	4822 051 10102	1k 2% 0,25W
3272	4822 051 10471	470Ω 2% 0,25W



3278	4822 051 10472	4k7 2% 0,25W
3280	4822 051 10102	1k 2% 0,25W
3282	4822 051 10103	10k 2% 0,25W
3283	4822 051 10472	4k7 2% 0,25W
3284	4822 051 10102	1k 2% 0,25W
3289	4822 051 10102	1k 2% 0,25W
3302	4822 051 10102	1k 2% 0,25W
3307	4822 051 10474	470k 2% 0,25W
3308	4822 051 10471	470Ω 2% 0,25W
3309▲	4822 051 10008	0Ω 5% 0,25W

3319	4822 051 10102	1k 2% 0,25W
3991	4822 051 10399	39Ω 2% 0,25W

5200	4822 157 62824	7,5µH
5201	4822 157 62824	7,5µH
5202	4822 157 60122	4,7µH 10%



6258	4822 130 80905	LLZ-F5V1
7226	5322 130 41983	BC858B
7228▲	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263▲	5322 130 41982	BC848B
7264	4822 130 42355	BFS19

7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277▲	5322 130 41982	BC848B
7278▲	5322 130 41982	BC848B

### ECO-box L'

#### Connectors

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

#### Various

1750	4822 212 30887	Eco-box
1064	4822 242 72572	crystal 12 MHz
1162	4822 242 71417	crystal 13,875 000 MHz

### II

2001	4822 122 31768	180pF 2% 63V
2002	4822 122 32504	15pF 2% 63V
2004	4822 122 31768	180pF 2% 63V
2005	4822 122 31971	10pF 2% 63V
2006	4822 122 32765	820pF 2% 63V

2007	4822 122 31768	180pF 2% 63V
2008	4822 122 31971	10pF 2% 63V
2009	4822 122 32765	820pF 2% 63V
2010	4822 124 22347	47µF 20% 50V
2011	4822 122 33496	100nF 10% 63V

2012	4822 124 41643	100µF 20% 16V
2013	4822 122 33496	100nF 10% 63V
2016	4822 122 33496	100nF 10% 63V
2019	4822 122 33496	100nF 10% 63V
2024	4822 122 33496	100nF 10% 63V

2025▲	4822 124 40196	220µF 20% 16V
2026	4822 122 33496	100nF 10% 63V
2027▲	4822 124 40196	220µF 20% 16V
2028	4822 122 33496	100nF 10% 63V
2029	4822 122 33496	100nF 10% 63V

2030	4822 122 33496	100nF 10% 63V
2031	4822 124 40435	10µF 20% 50V
2032	4822 122 33496	100nF 10% 63V
2033	4822 124 40435	10µF 20% 50V



2034	4822 122 33496	100nF 10% 63V
2035▲	4822 124 40196	220µF 20% 16V
2036	4822 124 41643	100µF 20% 16V
2037	4822 122 33496	100nF 10% 63V
2038	4822 122 33496	100nF 10% 63V
2040	4822 122 33496	100nF 10% 63V
2041	4822 122 33496	100nF 10% 63V
2042	4822 122 33496	100nF 10% 63V
2046	4822 122 31765	100pF 2% 63V
2047	4822 122 32139	12pF 2% 63V

2048	4822 122 32142	2
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2164▲	4822 122 32442	10nF 50V
2165	4822 122 33496	100nF 10% 63V
2166	4822 122 33496	100nF 10% 63V
2167	5322 122 31842	330pF 2% 63V
2168▲	4822 122 32442	10nF 50V
2169	4822 122 33496	100nF 10% 63V
2170	4822 122 33496	100nF 10% 63V
2175	4822 124 41576	2,2µF 20% 50V
2176	4822 122 33496	100nF 10% 63V
2177	4822 124 41997	470µF 10V
2178	4822 122 33496	100nF 10% 63V
2179	5322 122 31647	1nF 10% 63V
2180	4822 122 31772	47pF 2% 63V
2181	4822 122 31772	47pF 2% 63V
2182	4822 122 31772	47pF 2% 63V
2183	4822 122 31772	47pF 2% 63V
2200	4822 122 31772	47pF 2% 63V
2201	4822 122 31765	100pF 2% 63V
2202	4822 122 31772	47pF 2% 63V
2210	4822 124 41643	100µF 20% 16V
2211	4822 122 33496	100nF 10% 63V



3003	4822 051 10109	10Ω 2% 0,25W
3004	4822 051 51201	120Ω 1% 0,125W
3005	4822 051 51201	120Ω 1% 0,125W
3009	4822 051 10181	180Ω 2% 0,25W
3010	4822 051 10681	680Ω 2% 0,25W
3011	4822 051 10821	820Ω 2% 0,25W
3012▲	4822 052 10279	27Ω 5% 0,33W
3013	4822 116 52231	820Ω 5% 0,5W
3014	4822 051 52401	240Ω 1% 0,125W
3015	4822 051 56201	620Ω 1% 0,125W
3016	4822 051 10471	470Ω 2% 0,25W
3017	4822 051 51501	150Ω 1% 0,125W
3018	4822 051 59101	910Ω 1% 0,125W
3019	4822 051 10471	470Ω 2% 0,25W
3024	4822 051 10102	1k 2% 0,25W
3025	4822 051 10162	1k6 2% 0,25W
3026▲	4822 051 10242	2k4 2% 0,25W
3028	4822 051 10209	20Ω 2% 0,25W
3045	4822 051 10479	47Ω 2% 0,25W
3046	4822 051 10221	220Ω 2% 0,25W
3047	4822 051 10339	33Ω 2% 0,25W
3048	4822 051 10221	220Ω 2% 0,25W
3049	4822 051 10339	33Ω 2% 0,25W
3050	4822 051 10102	1k 2% 0,25W
3051	4822 051 10339	33Ω 2% 0,25W
3052	4822 051 52201	220Ω 1% 0,125W
3055	4822 051 10759	75Ω 2% 0,25W
3056	4822 051 53301	330Ω 1% 0,125W
3057	4822 051 53601	360Ω 1% 0,125W
3060	4822 051 10512	5k1 2% 0,25W
3062▲	4822 052 10279	27Ω 5% 0,33W
3070	4822 051 10101	100Ω 2% 0,25W
3071	4822 051 10182	1k8 2% 0,25W
3072	4822 051 10182	1k8 2% 0,25W
3073	4822 116 52233	10k 5% 0,5W
3075	4822 051 10102	1k 2% 0,25W
3078	4822 051 10101	100Ω 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3081	4822 051 10471	470Ω 2% 0,25W
3083	4822 116 52175	100Ω 5% 0,5W
3085	4822 051 10101	100Ω 2% 0,25W
3086	4822 051 10101	100Ω 2% 0,25W
3087	4822 051 10229	22Ω 2% 0,25W
3088	4822 051 10101	100Ω 2% 0,25W
3091	4822 051 10109	10Ω 2% 0,25W
3092	4822 051 10622	6k2 2% 0,25W
3093	4822 051 10511	510Ω 2% 0,25W
3095	4822 051 10562	5k6 2% 0,25W
3096	4822 051 20222	2k2 5% 0,1W
3097	4822 051 10102	1k 2% 0,25W



3098	4822 051 10102	1k 2% 0,25W
3099	4822 051 52701	270Ω 1% 0,125W
3100▲	4822 052 10159	15Ω 5% 0,33W
3103	4822 051 10102	1k 2% 0,25W
3104	4822 051 10104	100k 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10683	68k 2% 0,25W
3110	4822 051 10162	1k6 2% 0,25W
3111	4822 051 10102	1k 2% 0,25W
3112	4822 051 20222	2k2 5% 0,1W
3114	4822 051 10122	1k2 2% 0,25W
3116	4822 051 10562	5k6 2% 0,25W
3117	4822 051 10229	22Ω 2% 0,25W
3118	4822 051 10333	33k 2% 0,25W
3119	4822 100 20166	10k 30% LIN
3120	4822 051 10153	15k 2% 0,25W
3121	4822 051 10152	1k5 2% 0,25W
3122	4822 051 10272	2k7 2% 0,25W
3123	4822 051 10101	100Ω 2% 0,25W
3124	4822 051 10272	2k7 2% 0,25W
3125	4822 051 20222	2k2 5% 0,1W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10113	11k 2% 0,25W
3128	4822 051 10153	15k 2% 0,25W
3130	4822 051 10683	68k 2% 0,25W
3131	4822 100 20166	10k 30% LIN
3132	4822 051 10102	1k 2% 0,25W
3134	4822 051 10152	1k5 2% 0,25W
3136	4822 051 10153	15k 2% 0,25W
3137	4822 051 10153	15k 2% 0,25W
3140	4822 051 10181	180Ω 2% 0,25W
3141	4822 051 10473	47k 2% 0,25W
3142	4822 051 10102	1k 2% 0,25W
3143	4822 051 10683	68k 2% 0,25W
3144	4822 051 20222	2k2 5% 0,1W
3145	4822 051 10221	220Ω 2% 0,25W
3146	4822 051 10681	680Ω 2% 0,25W
3147	4822 051 10221	220Ω 2% 0,25W
3149	4822 051 10272	2k7 2% 0,25W
3150▲	4822 116 81193	15Ω 5% 0,3W
3151	4822 051 10101	100Ω 2% 0,25W
3153▲	4822 051 10008	0Ω 5% 0,25W
3154	4822 116 52256	2k2 5% 0,5W
3155	4822 051 20222	2k2 5% 0,1W
3156	4822 051 10473	47k 2% 0,25W
3157	4822 051 10473	47k 2% 0,25W
3158	4822 051 10101	100Ω 2% 0,25W
3159	4822 051 10569	56Ω 2% 0,25W
3160	4822 116 81783	1M5 5% 0,5W
3161	4822 051 10101	100Ω 2% 0,25W
3165▲	4822 052 10279	27Ω 5% 0,33W
3168	4822 051 10513	51k 2% 0,25W
3178	4822 051 10132	1k3 2% 0,25W
3180	4822 051 10561	560Ω 2% 0,25W
3181	4822 051 10561	560Ω 2% 0,25W
3182	4822 051 10561	560Ω 2% 0,25W
3183	4822 051 10759	75Ω 2% 0,25W
3201	4822 051 10101	100Ω 2% 0,25W

Jumper

4001▲	4822 051 10008	0Ω 5% 0,25W
5001	4822 157 53001	27µH 10%
5002	4822 157 53001	27µH 10%
5004	4822 157 53066	15µH 10%
5007	4822 157 53066	15µH 10%
5011	4822 152 20677	10µH 10%
5012	4822 152 20677	10µH 10%
5025	4822 157 60147	2,2µH
5026	4822 157 60147	2,2µH
5034	4822 157 60147	2,2µH
5035	4822 157 60147	2,2µH



5036	4822 157 60147	2,2µH
5040	4822 157 60147	2,2µH
5041	4822 157 60147	2,2µH
5042	4822 157 60147	2,2µH
5047	4822 157 62552	2,2µH
5049	4822 157 60122	1,5µH 20%
5052	4822 157 60122	1,5µH 20%
5054	4822 157 60122	1,5µH 20%
5063	4822 157 60147	2,2µH
5066	4822 157 60147	2,2µH
5079	4822 152 20677	10µH 10%
5083	4822 157 60147	2,2µH
5146	4822 157 53001	27µH 10%
5152	4822 157 52224	15µH 10%
5169	4822 157 60147	2,2µH
5170	4822 157 60147	2,2µH
5177	4822 157 60147	2,2µH



6001	4822 130 80446	LL4148
6003	4822 130 80446	LL4148
6004	4822 130 80446	LL4148
6006	4822 130 82334	BA585
6025	4822 130 80446	LL4148
6026	4822 130 80905	BZV55-F5V1
6080	4822 130 81511	LLZ-C3V6
6122	4822 130 80884	LLZ-C5V1
6127	4822 130 80446	LL4148



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