

Service
Service
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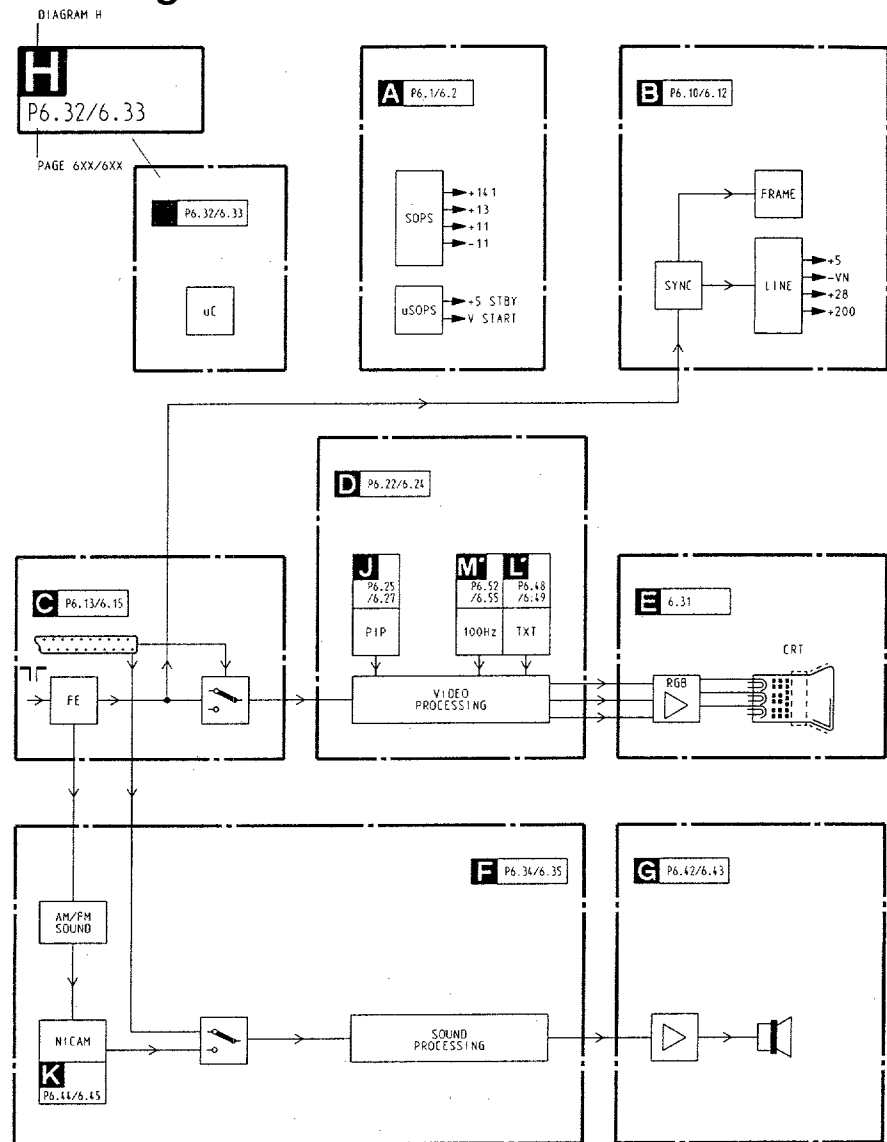
FL 1.6
AA

Service Manual

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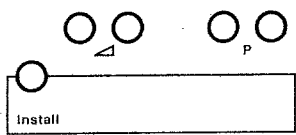
Technical data

- Mains voltage : 220 - 240 V (± 10%)
- : 50 Hz - 60 Hz (± 5%)
- Aerial input impedance : 75 Ω - coaxial
- Minimum aerial voltage : 30 μV (VHF), 40 μV (UHF)
- Maximum aerial voltage VHF/S/UHF : 180 mV
- Pull-in range colour synchronization : +300 Hz/-300 Hz
- Pull-in range horizontal synchronization : +200 Hz/-300Hz

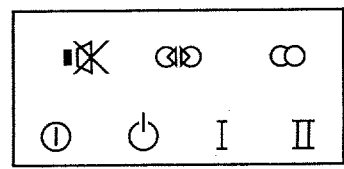
- Programmes : PRO-PR59
- VCR programmes : PRO, 00, 50 - 59

Local operation functions:

- Indications:**
- On Screen Display (OSD)
 - LED:











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







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1. Specification of the connectors



EXT1 (AUX)

- | | | | |
|---|----------------|---|---|
|  | 1 -Audio | ⊕ | R(0,5V RMS ≤ 1kΩ) |
|  | 2 -Audio | ⊖ | R(0,5V RMS ≥ 10kΩ) |
|  | 3 -Audio | ⊕ | L(0,5V RMS ≤ 1kΩ) |
|  | 4 -Audio | ⊥ | |
|  | 5 -Blue | ⊥ | |
|  | 6 -Audio | ⊖ | L(0,5V RMS ≥ 10kΩ) |
|  | 7 -Blue | | (0,7V _{pp} /75Ω) |
| | 8 -CVBS-status | ⊖ | 0-2V: int
4,5-7V: ext 16:9
9,5-12V: ext 4:3 |
| | 9 -Green | ⊥ | |
| | 10 -- | | |
| | 11 -Green | | (0,7V _{pp} /75Ω) |
|  | 12 -- | | |
| | 13 -Red | ⊥ | |
| | 14 -RGB-status | ⊥ | |
| | 15 -Red | | (0,7V _{pp} /75Ω) |
| | 16 -RGB-status | | (0-0,4V: int. 1-3V ext. 75Ω) |
| | 17 -CVBS | ⊥ | |
| | 18 -CVBS | ⊥ | |
| | 19 -CVBS | ⊕ | (1V _{pp} /75Ω) |
| | 20 -CVBS | ⊖ | (1V _{pp} /75Ω) |
| | 21 -Earthsreen | | |


EXT2 (VCR)

- | | | | |
|---|----------------|---|---|
|  | 1 -Audio | ⊕ | R(0,5V RMS ≤ 1kΩ) |
|  | 2 -Audio | ⊖ | R(0,5V RMS ≥ 10kΩ) |
|  | 3 -Audio | ⊕ | L(0,5V RMS ≤ 1kΩ) |
|  | 4 -Audio | ⊥ | |
|  | 5 - | | |
|  | 6 -Audio | ⊖ | L(0,5V RMS ≥ 10kΩ) |
|  | 7 -- | | |
| | 8 -CVBS-status | ⊖ | 0-2V: int
4,5-7V: ext 16:9
9,5-12V: ext 4:3 |
| | 9 -- | | |
| | 10 -- | | |
| | 11 -- | | |
|  | 12 -- | | |
| | 13 -- | | |
| | 14 -- | | |
| | 15 -C | ⊖ | (0,3V _{pp} /75Ω) |
| | 16 -- | | |
| | 17 -CVBS | ⊥ | |
| | 18 -CVBS | ⊥ | |
| | 19 -CVBS | ⊖ | (1V _{pp} /75Ω) |
| | 20 -Y | ⊖ | (1V _{pp} /75Ω) |
| | 21 -Earthsreen | | |

EXT3 (front)

- SVHS
- | | | |
|---|-------|------------------------------|
|  | 1 - | ⊥ |
|  | 2 - | ⊥ |
| | 3 - Y | ⊕ (1V _{pp} ; 75Ω) |
| | 4 - C | ⊖ (0,3V _{pp} ; 75Ω) |

- ⊙ CINCH Video ⊕ 300mV_{pp}/75Ω
- ⊙ CINCH Audio ⊖ L(0,2 - 2V RMS; ≥ 10kΩ)
- ⊙ CINCH Audio ⊕ R(0,2 - 2V RMS; ≥ 10kΩ)



 32-2000Ω ≥ 10mW

Audio out (rear)



- ⊙ CINCH Audio ⊕ L(0,5V RMS; ≤ 1kΩ)
- ⊙ CINCH Audio ⊕ R(0,5V RMS; ≤ 1kΩ)

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

EXT2 (SVHS) (rear)

- SVHS
- | | | |
|---|-------|------------------------------|
|  | 1 - | ⊥ |
|  | 2 - | ⊥ |
| | 3 - Y | ⊕ (1V _{pp} ; 75Ω) |
| | 4 - C | ⊖ (0,3V _{pp} ; 75Ω) |

- ⊙ CINCH Audio ⊕ L(0,2 - 2V RMS; ≥ 10kΩ)
- ⊙ CINCH Audio ⊖ R(0,2 - 2V RMS; ≥ 10kΩ)

- SVHS
- | | | |
|---|-------|------------------------------|
|  | 1 - | ⊥ |
|  | 2 - | ⊥ |
| | 3 - Y | ⊕ (1V _{pp} ; 75Ω) |
| | 4 - C | ⊖ (0,3V _{pp} ; 75Ω) |

- ⊙ CINCH Audio ⊕ L(0,2 - 2V RMS; ≤ 1kΩ)
- ⊙ CINCH Audio ⊕ R(0,2 - 2V RMS; ≤ 1kΩ)

2.2 CHASSIS FL1.6 Connection facilities

2. Connection of equipment

When an SVHS source is connected to EXT2'(SVHS) or EXT3 (SVHS) the CVBS at these inputs is switched off. To reproduce the CVBS signal from these inputs, the particular SVHS plug must first be removed.

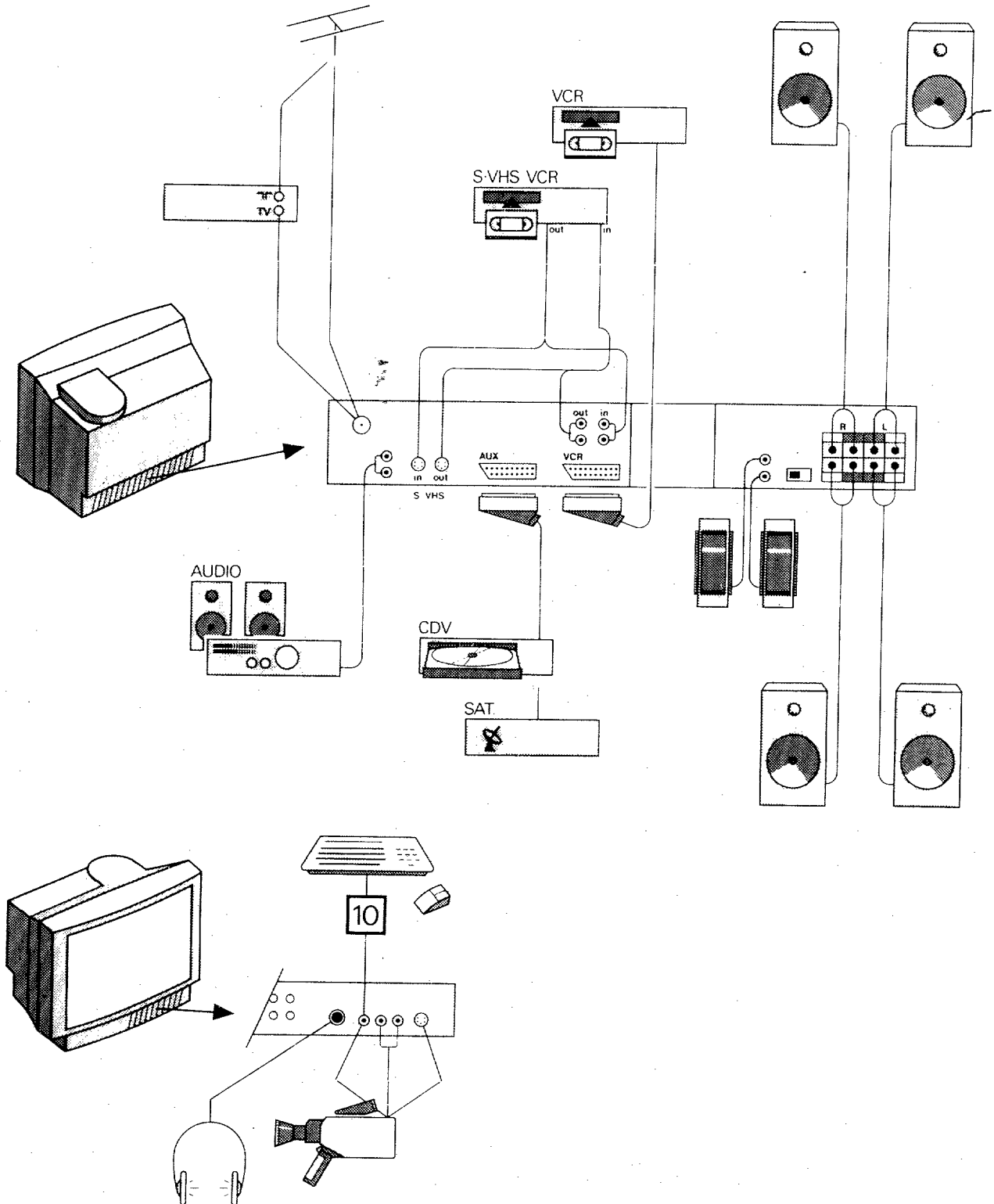




Fig. 2.1







Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol 
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx. 30s).
3. **ESD** 

All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. 4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.
9. 9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements. **The heat sink for the sound output amplifier (next to the channel selector) is connected to the -11 volts.**
11. On this unit the 140 volt supply voltage is not supplied via an interconnection on the deflection yoke to the line output transformer. When the deflection cable is detached, the +140 volt supply remains loaded. In order to unload the +140 volts, coil 5511 should be removed.
12. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

Notes

CHASSIS FL1.6 3.1

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (), or hot earth () as this is called.
2. The direct voltages and oscillograms shown in the diagrams should be measured in the **Service Default Mode** (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.
3. Where necessary, the oscillograms and direct voltages are measured with () and without aerial signal (). Voltages in the power supply section are measured both for normal operation () and in standby (). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of error searching and/or repair to the PIP module, the accessibility of the circuit and the components can be increased by using extension cards.
* 5 times: 4822 395 30261
* 10 times: 4822 395 30257

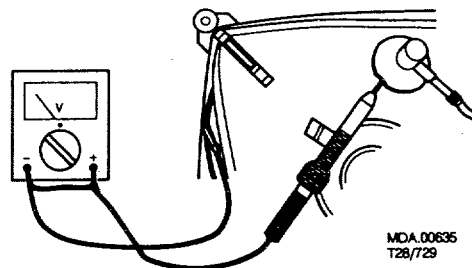
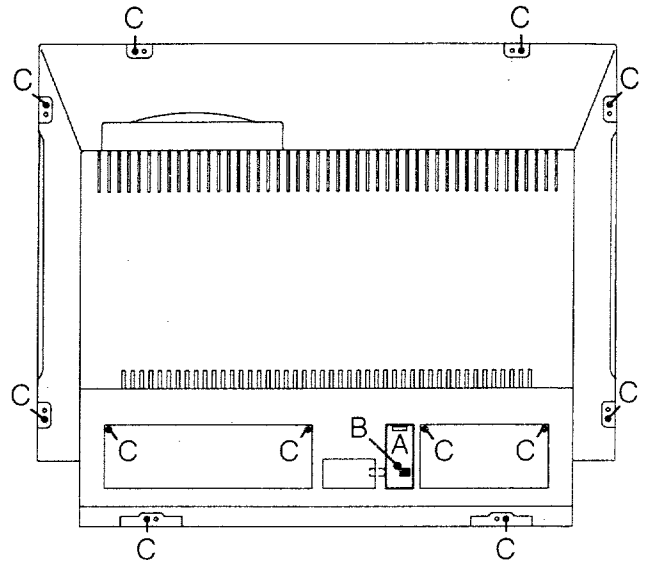


Fig. 3.1

1. Removing the back plate (Fig. 4.1)

Remove cover A from the back plate.
 Remove connector B (LI36) of the subwoofer.
 Remove attachment screws C from the back plate.
 Remove the back plate with the subwoofer fitted in it. Attach the back plate by carrying out the above in the reverse order.



MDA 02803
T05-035

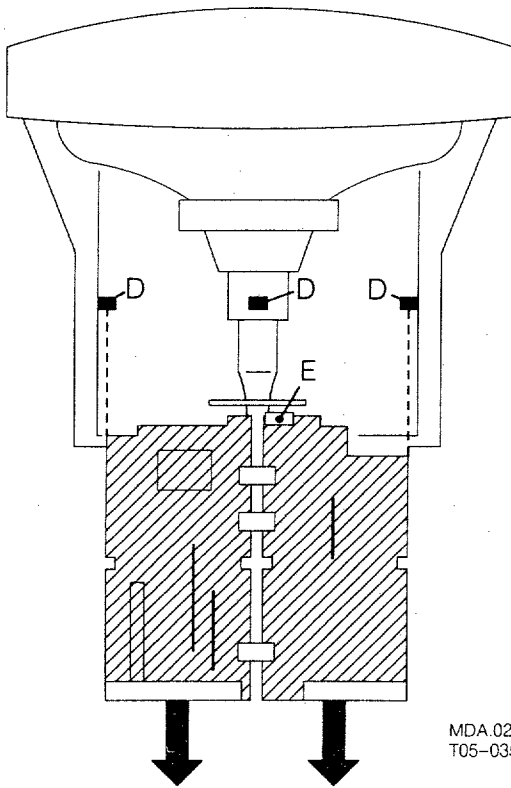
Fig. 4.1

2. Service position to measure test points (Fig. 4.2)

Unlock the chassis panels by pressing locks D.
 Pull both chassis panels backwards at the same time until all measuring points are accessible.

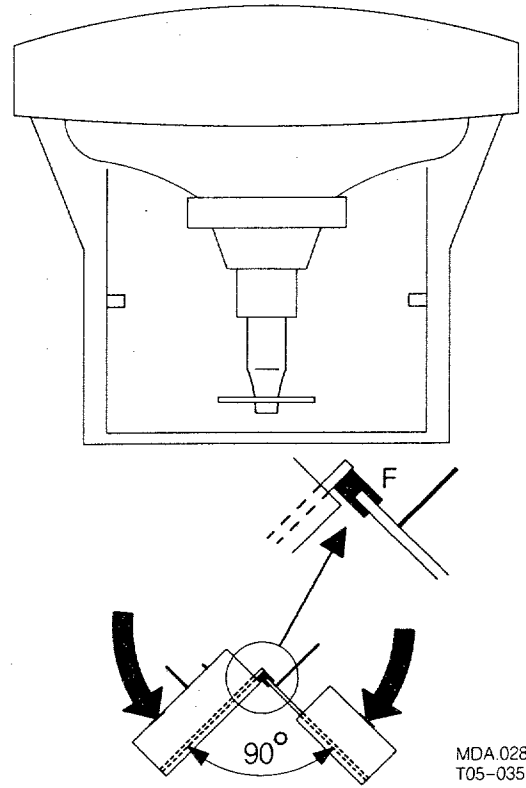
3. Service position for repair (Fig. 4.3)

Remove the LED display E (see Fig. 4.3) of the large signal panel.
 Tilt the back of the two panels and attach both panels using brackets F situated on the underside of the small signal panel, at an angle of 90° to one another.



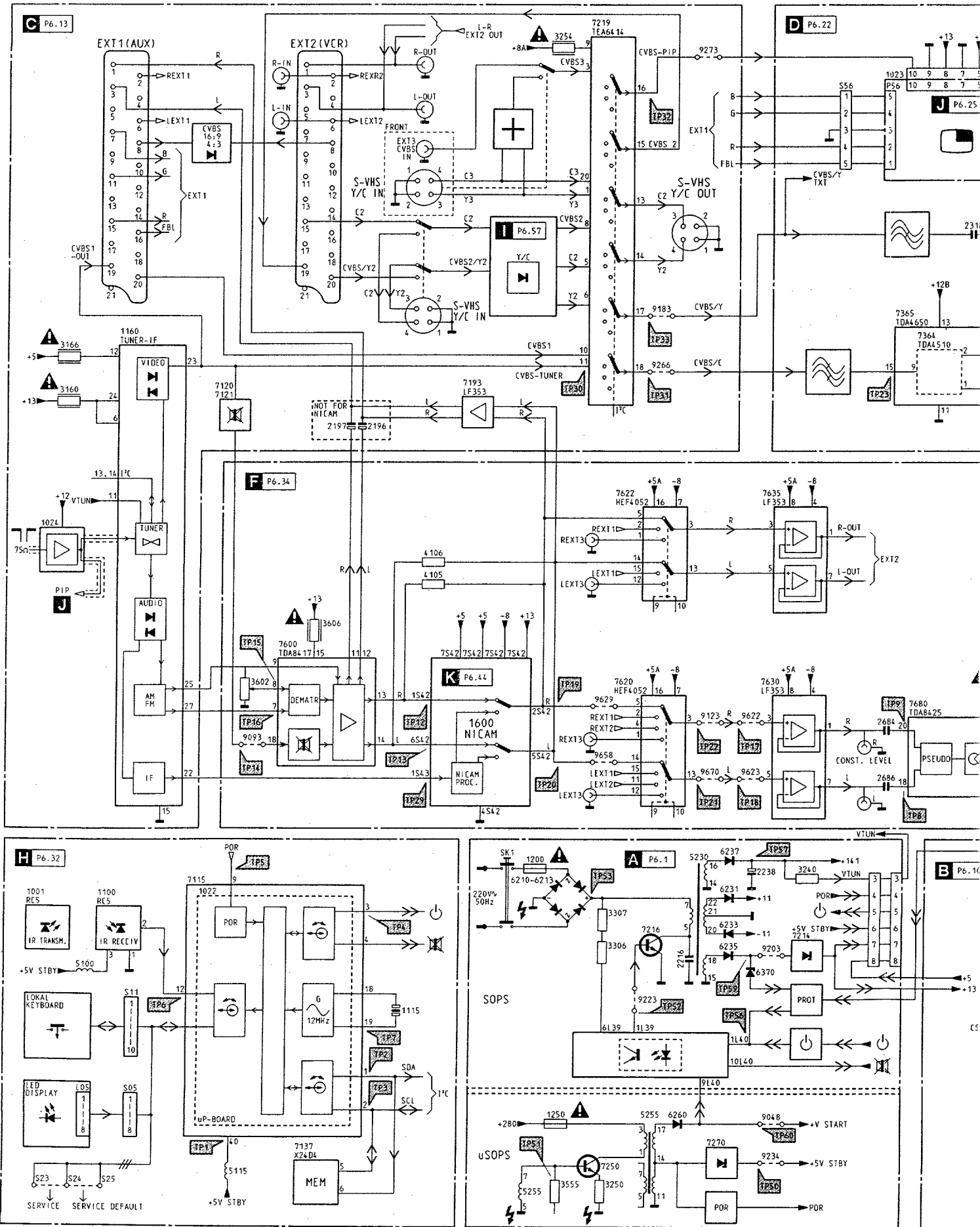
MDA 02801
T05-035

Fig. 4.2

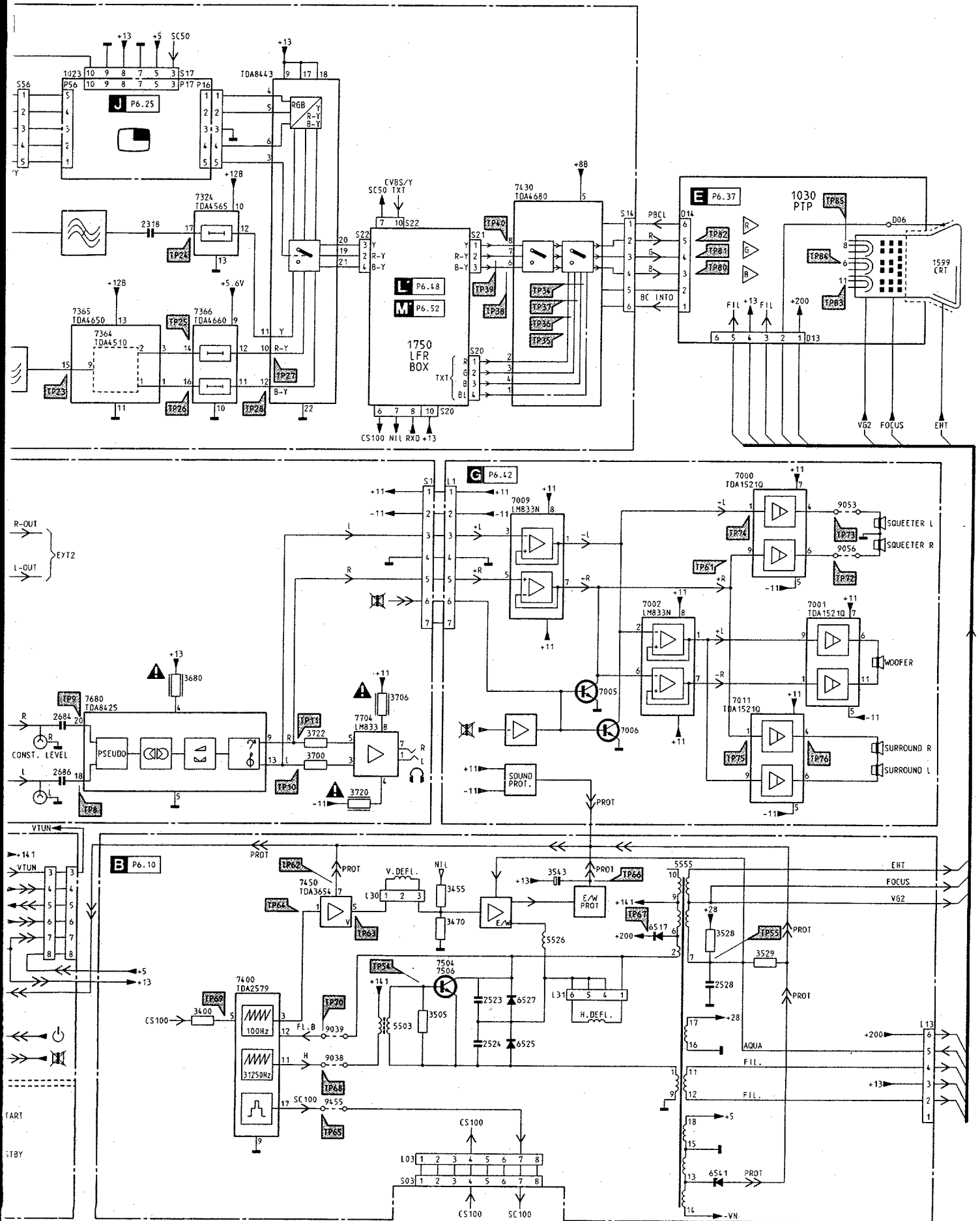


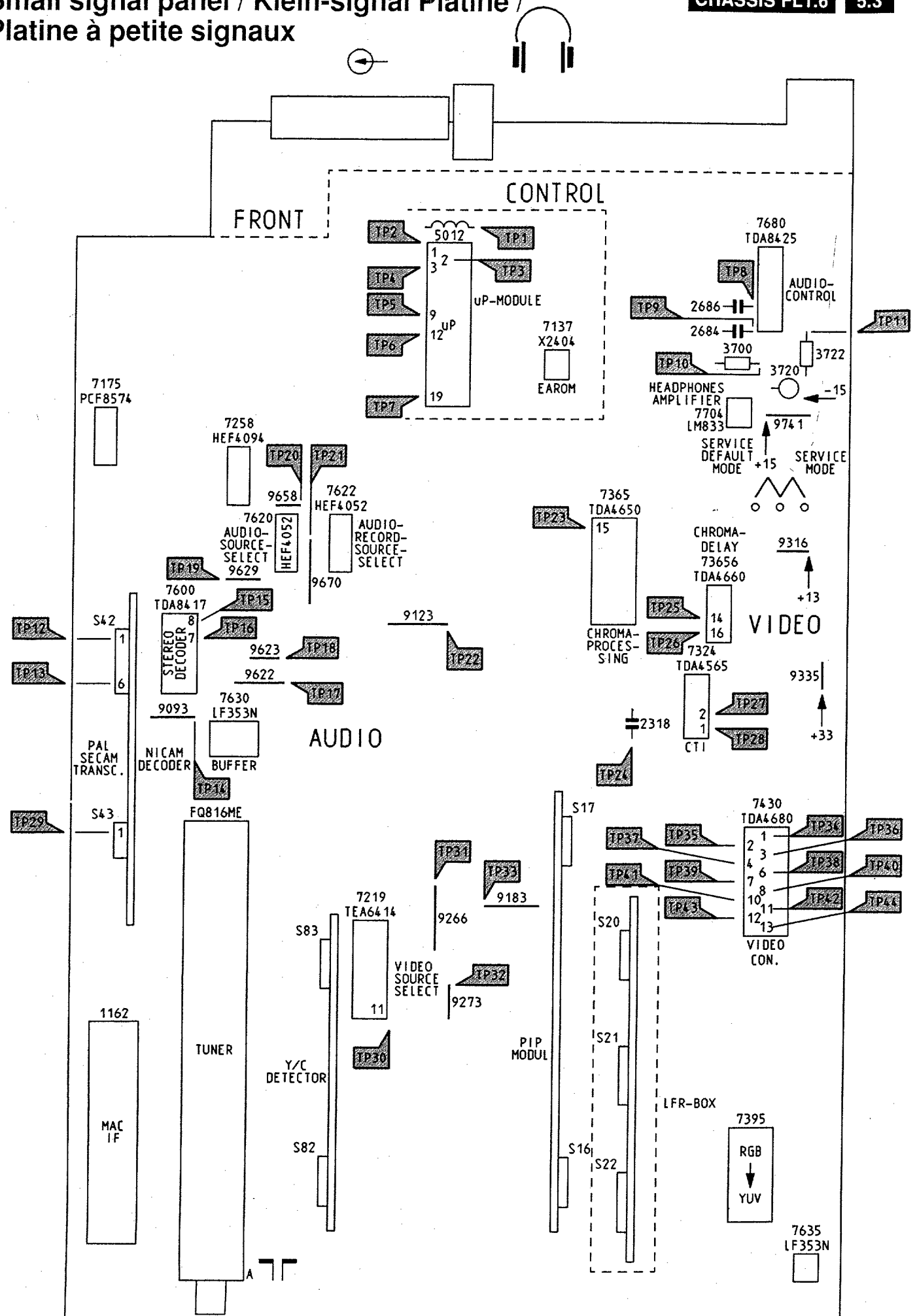
MDA 02802
T05-035

Fig. 4.3

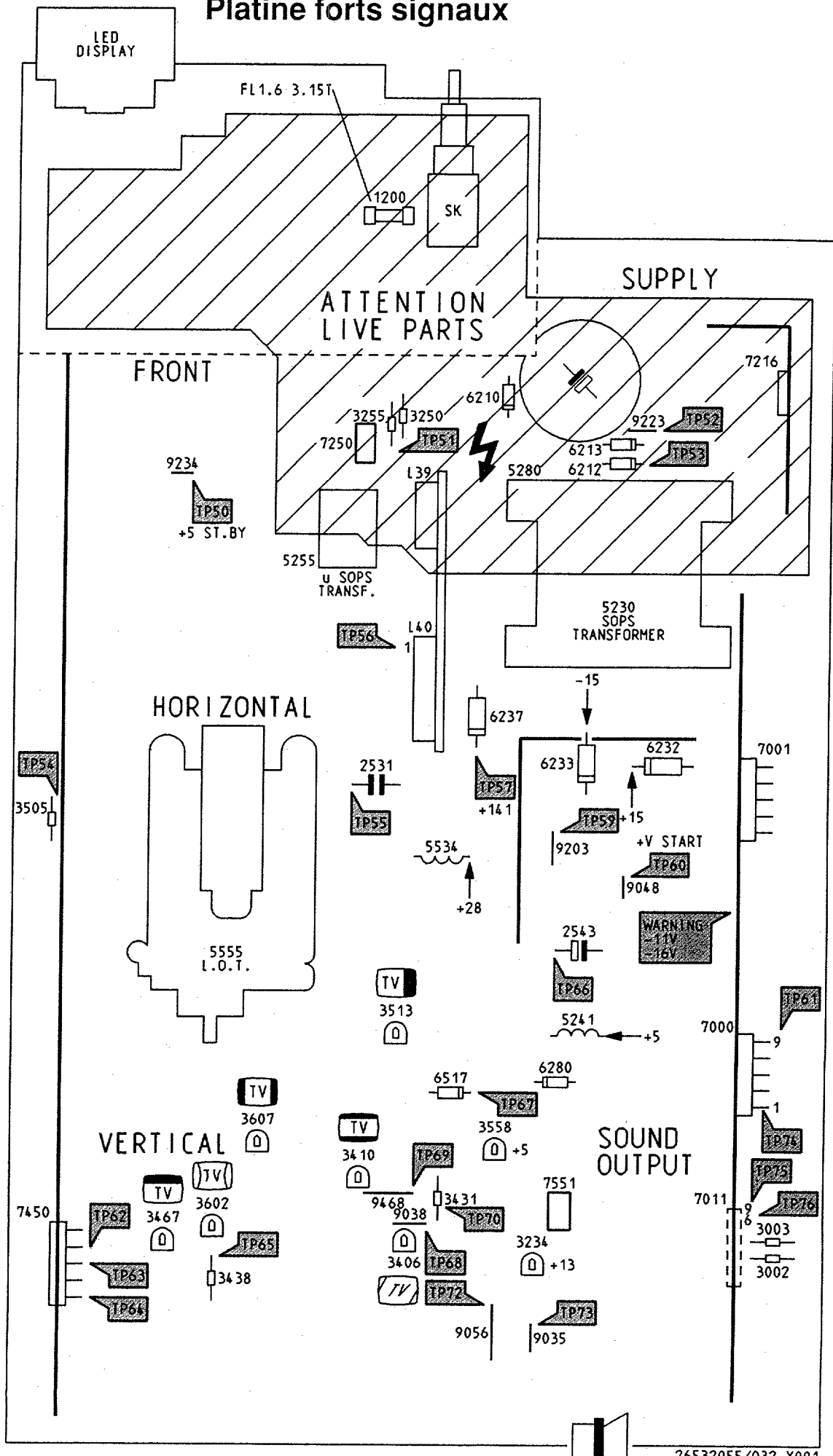


5.2 CHASSIS FL 1.6 Diagramme schématique





5.4 CHASSIS FL1.6 Large signal panel / Groß-signal Platine / Platine forts signaux

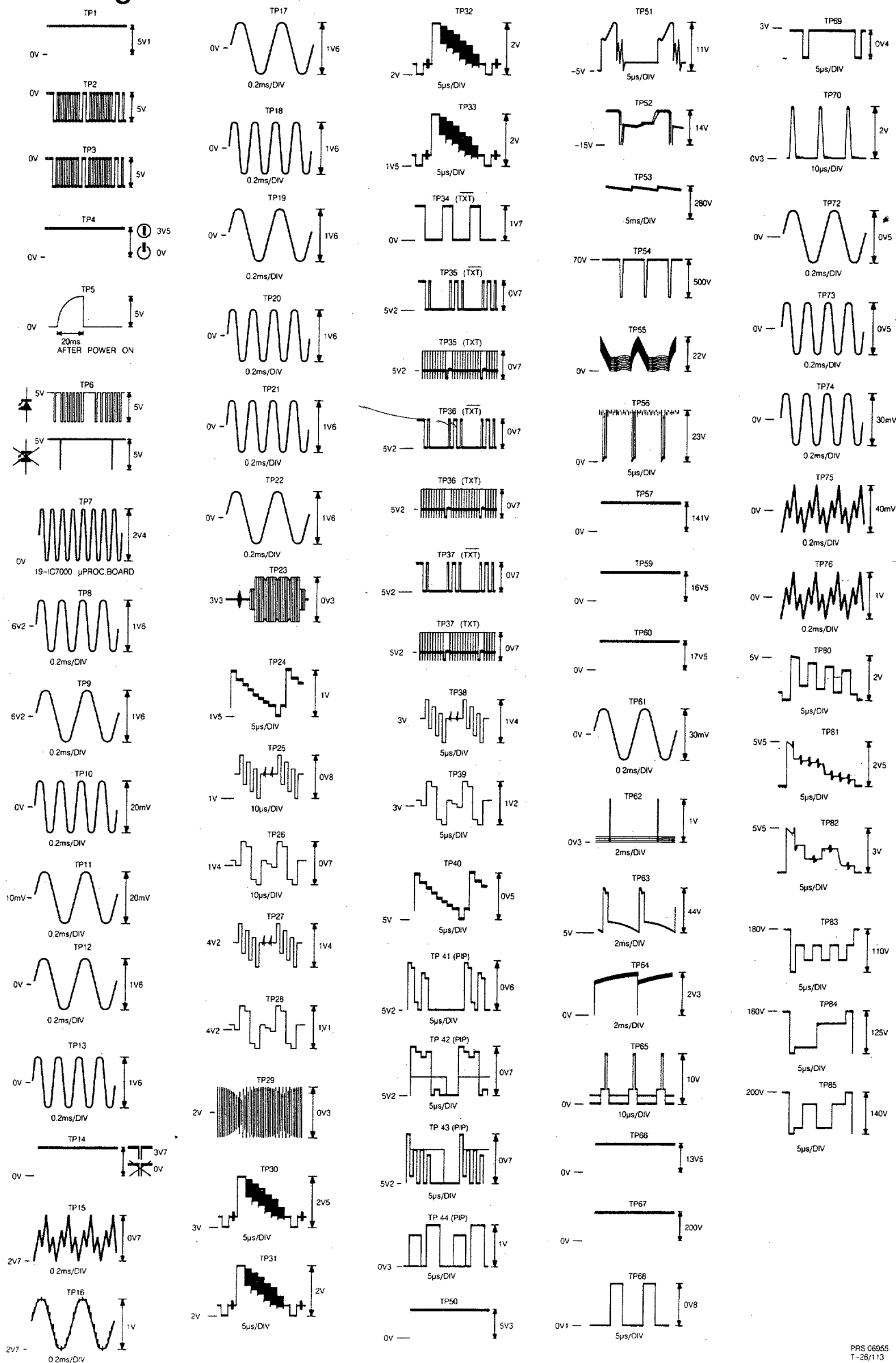


-15
 ICE
 JE

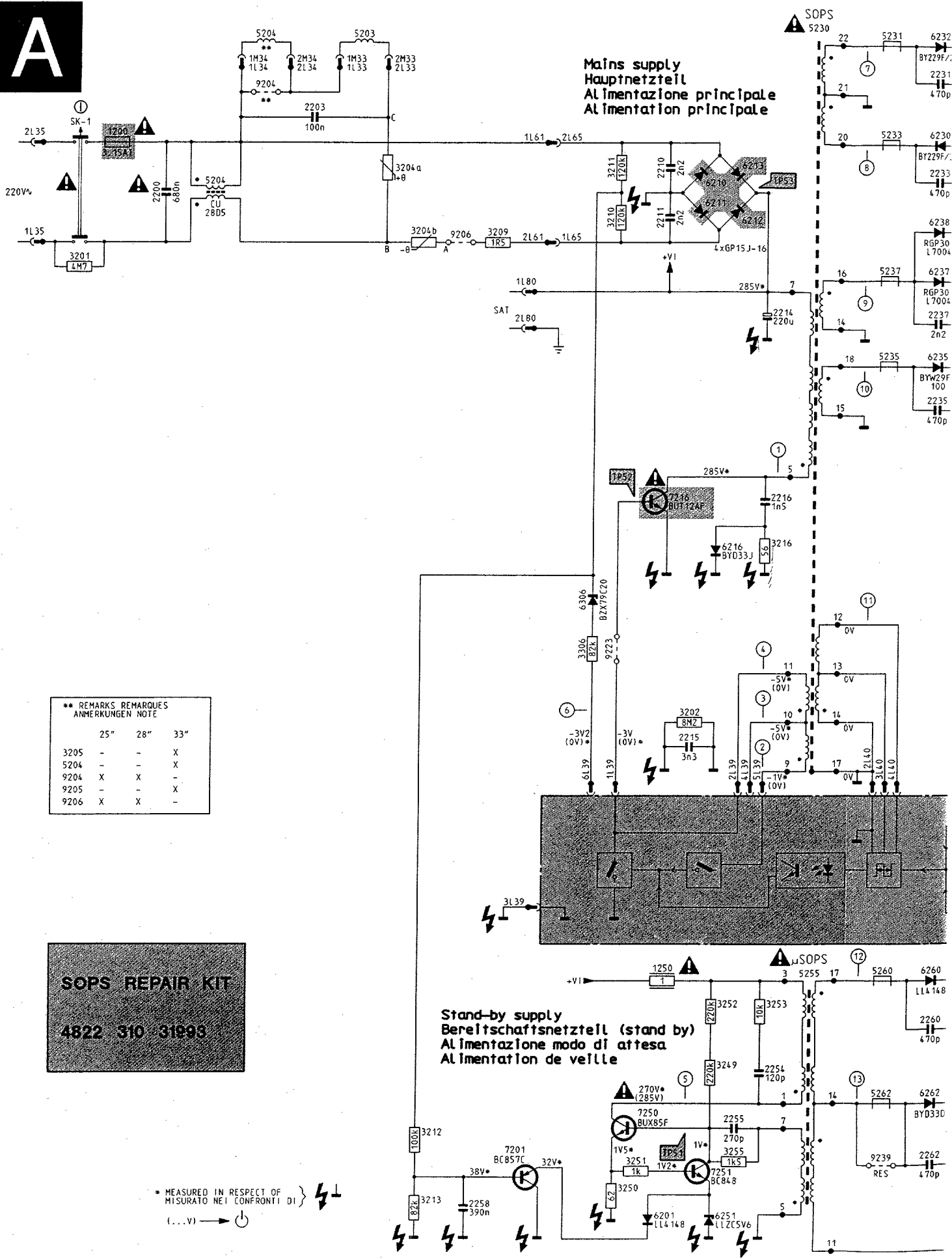
TP36
 TP40
 TP44

001
 492

Oscillograms



6.1 CHASSIS FL1.6 Power supply / Stromversorgung / L'alimentation



Mains supply
Hauptnetzteil
Alimentazione principale
Alimentation principale

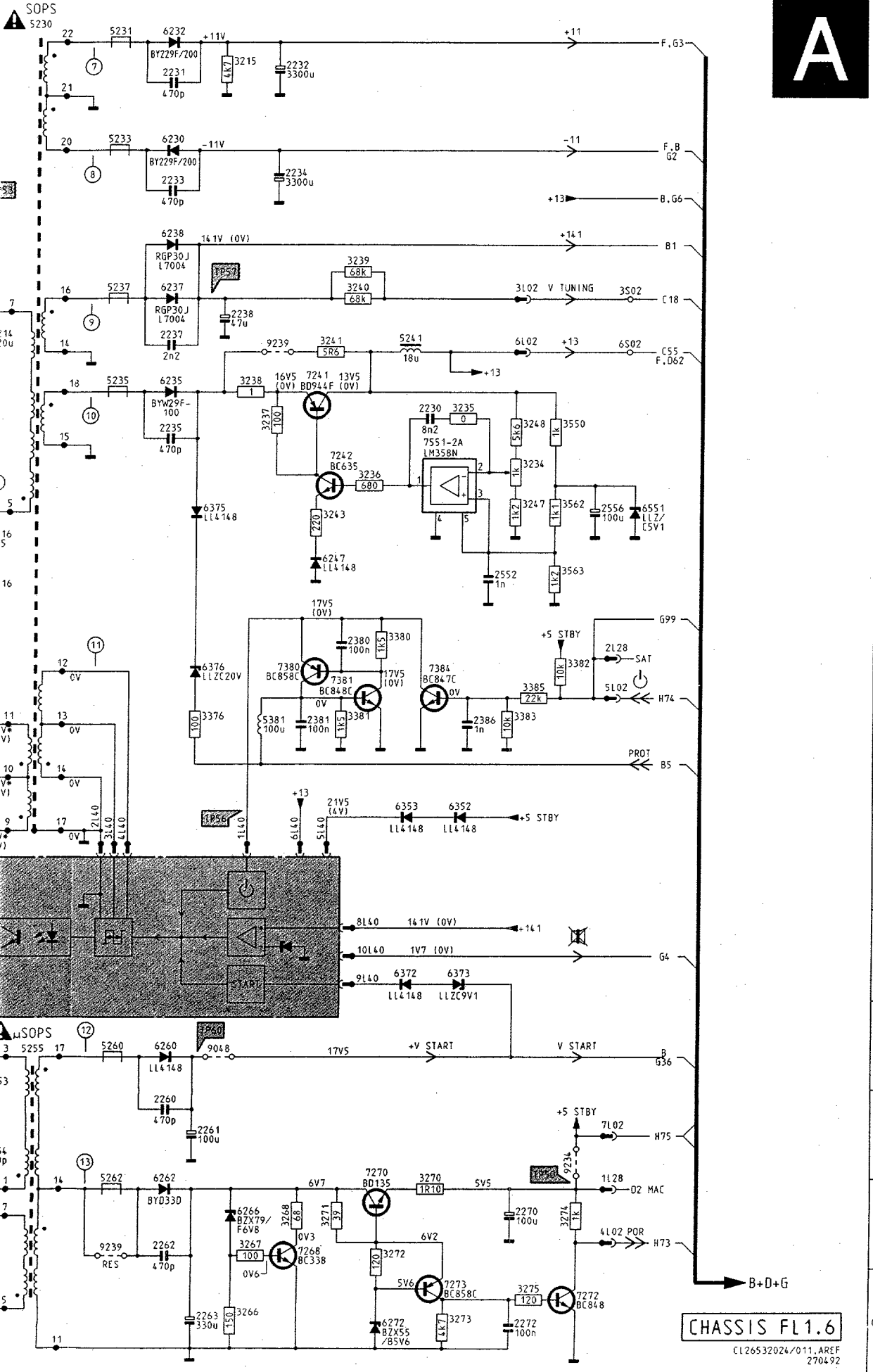
Stand-by supply
Bereitschaftsnetzteil (stand by)
Alimentazione modo di attesa
Alimentation de veille

** REMARKS REMARQUES
ANMERKUNGEN NOTE

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

SOPS REPAIR KIT
4822 310 31993

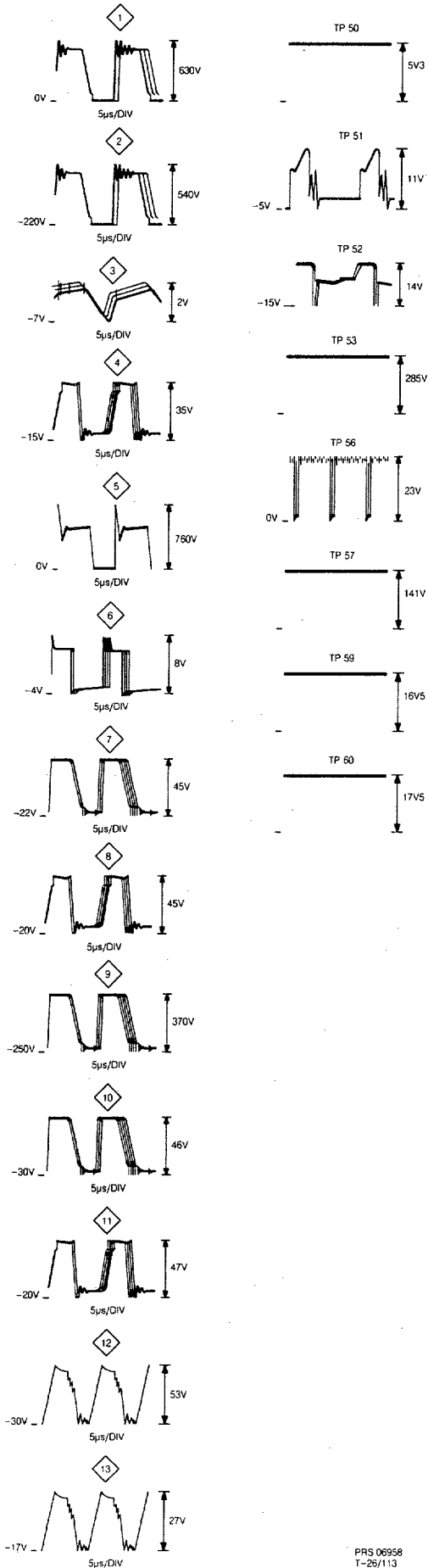
* MEASURED IN RESPECT OF
MISURATO NEI CONFRONTI DI

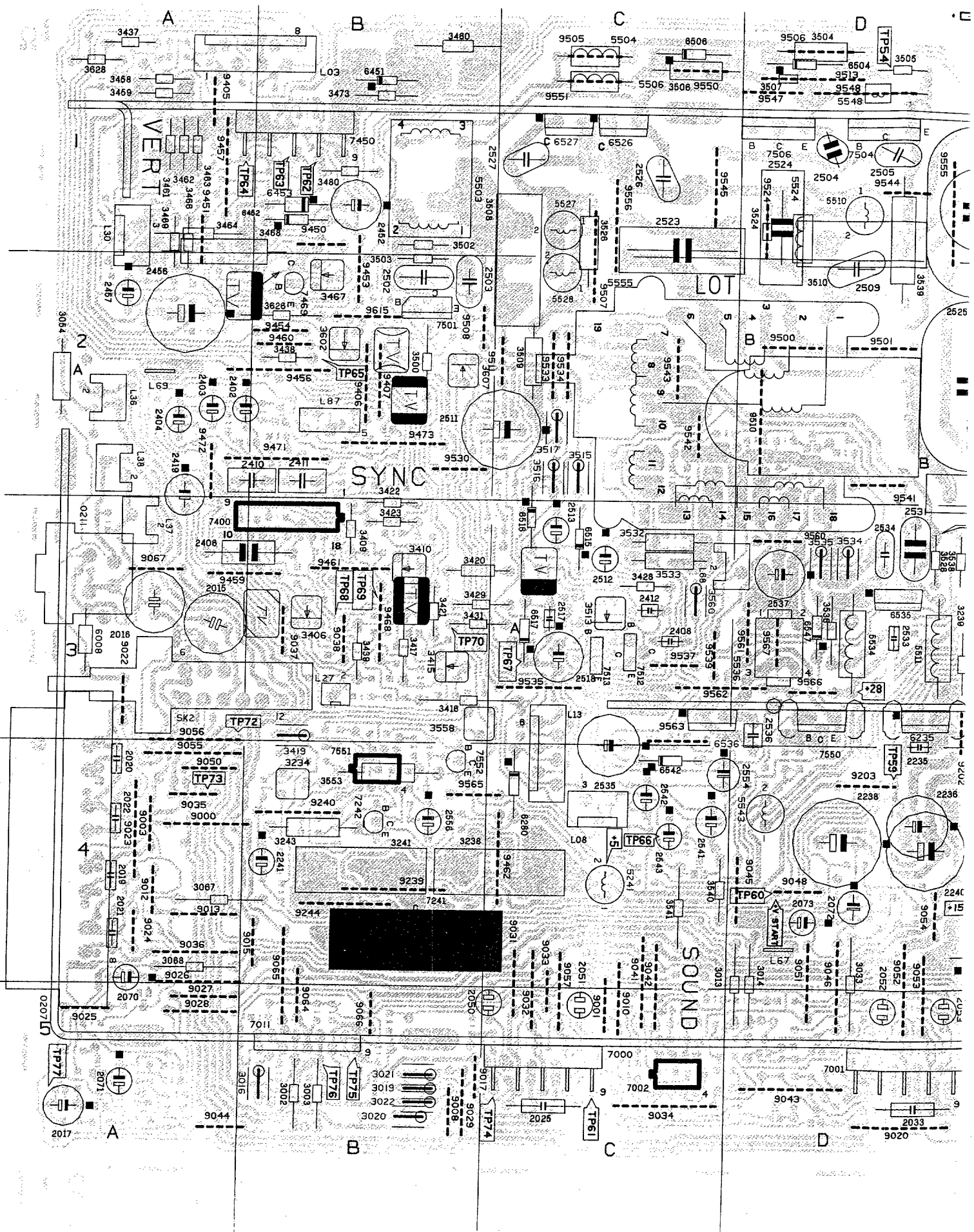


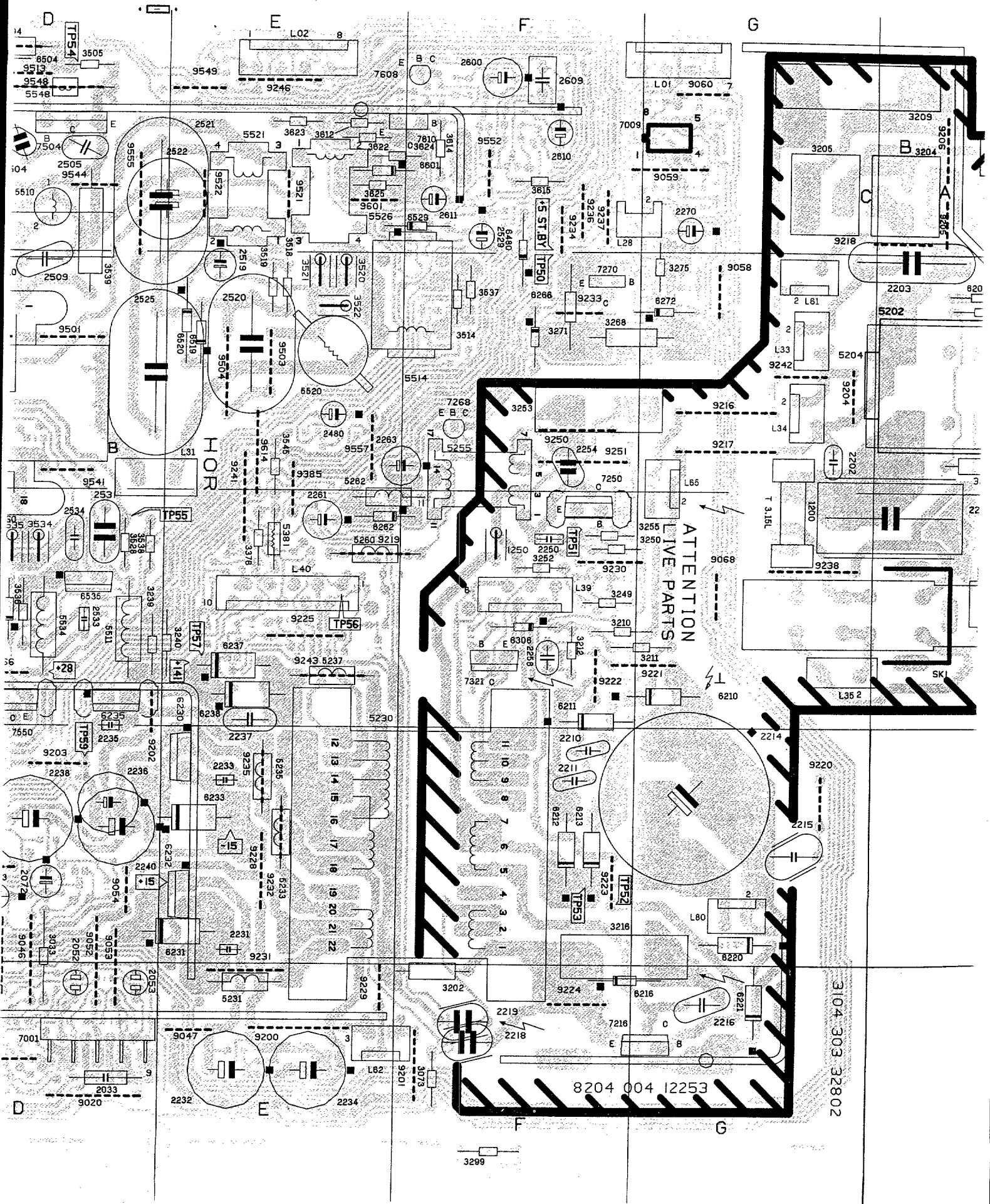
1200	B 2	6551	F17
1250	L 9	7201	N 7
2200	C 2	7216	F 9
2203	B 4	7241	E13
2210	B 9	7242	F14
2211	C 9	7250	N 8
2214	D10	7251	N 9
2215	I 9	7268	N13
2216	F10	7270	M14
2230	E15	7272	O16
2231	A12	7273	O15
2232	A13	7380	H13
2233	B12	7381	H14
2234	B13	7384	H15
2235	E12	7551	E15
2237	D12	9048	L12
2238	D12	9204	A 4
2254	M10	9206	C 6
2255	N 9	9223	H 8
2258	O 6	9234	M16
2260	M12	9239	N11
2261	M12	9239	D13
2262	N12		
2263	O12		
2270	N16		
2272	O16		
2380	H14		
2381	H13		
2386	H15		
2552	G15		
2556	F17		
3201	C 1		
3202	I 9		
3204	C 6		
3204	B 5		
3209	C 7		
3210	C 8		
3211	B 8		
3212	N 6		
3213	O 6		
3215	A13		
3216	G10		
3234	E16		
3235	E15		
3236	F14		
3237	E13		
3238	E13		
3239	C14		
3240	D14		
3241	D14		
3243	F14		
3247	F16		
3248	E16		
3249	M 9		
3250	O 8		
3251	N 8		
3252	L 9		
3253	L10		
3255	N 9		
3266	O13		
3267	N13		
3268	N13		
3270	N15		
3271	N14		
3272	N14		
3273	O15		
3274	N16		
3275	O16		
3306	H 8		
3376	H12		
3380	G14		
3381	H14		
3382	H16		
3383	H16		
3385	H16		
3550	E16		
3562	F16		
3563	G16		
4102	N17		
5203	A 5		
5204	C 3		
5204	A 4		
5230	A10		
5231	A11		
5233	B11		
5235	E11		
5237	D11		
5241	D14		
5255	L10		
5260	L11		
5262	N11		
5381	H13		
6201	O 9		
6210	C 9		
6211	C 9		
6212	C 9		
6213	B 9		
6216	G 9		
6230	B12		
6232	A12		
6235	E12		
6237	D12		
6238	C12		
6247	G14		
6251	O 9		
6260	L12		
6262	N12		
6266	N13		
6272	O14		
6306	H 8		
6352	I15		
6353	I14		
6372	K14		
6373	K15		
6375	F12		
6376	H12		

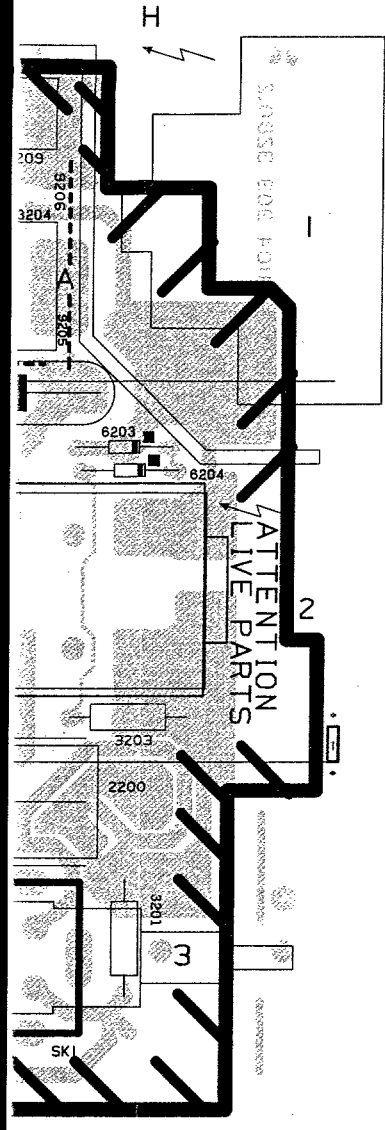
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 270492

6.3 CHASSIS FL1.6





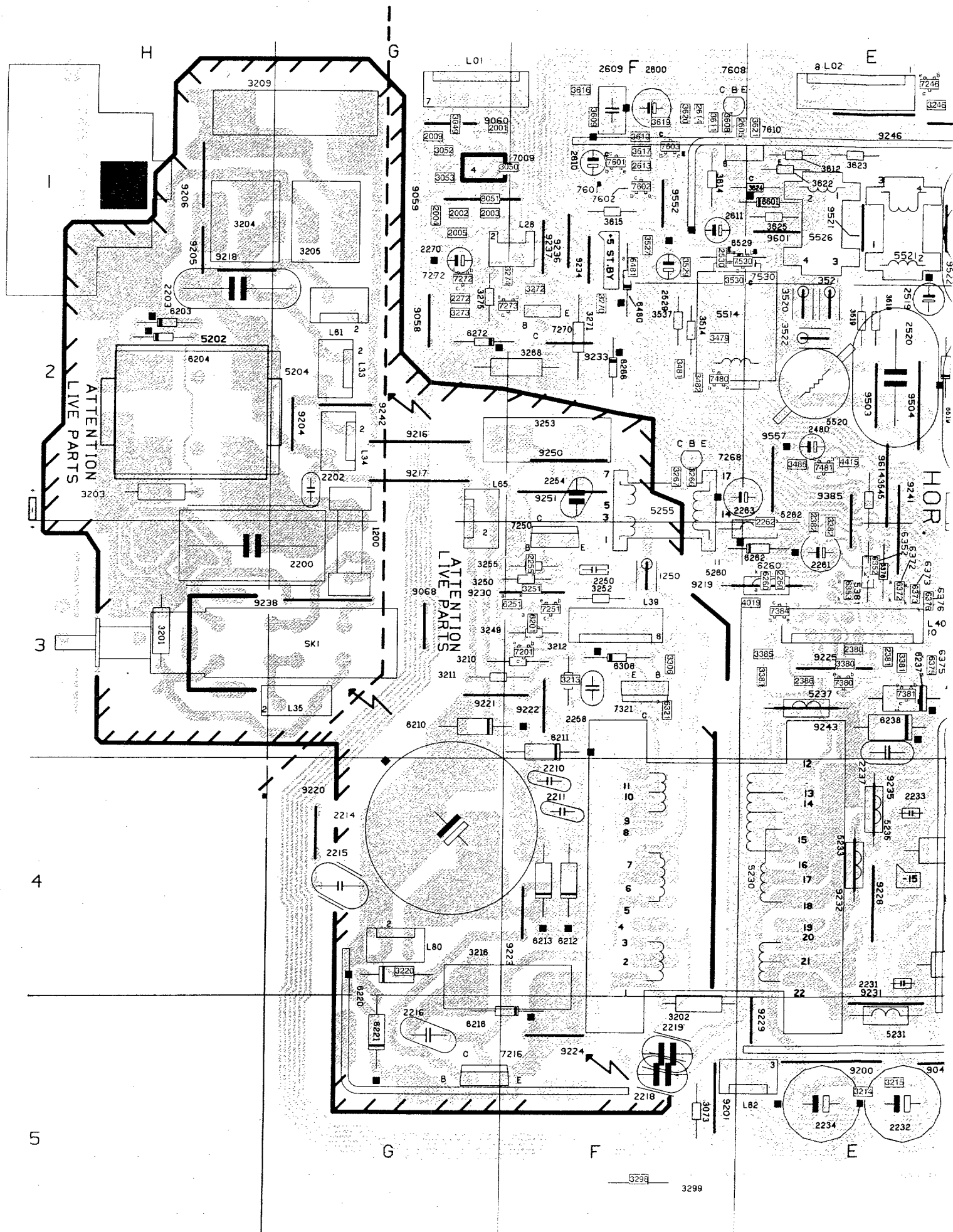


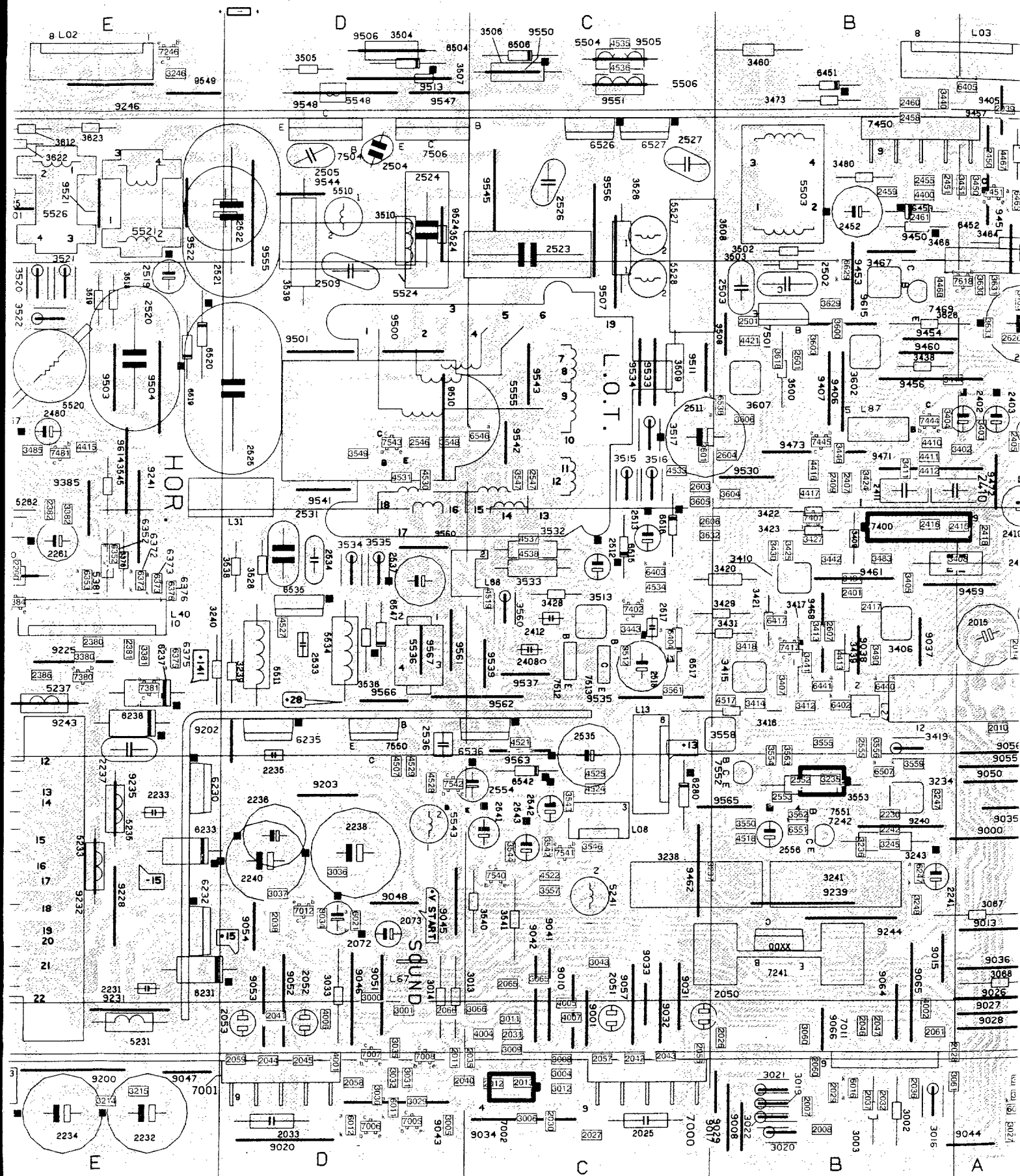


L01 F1	2502 B2	3429 B3	5527 C1	9028 A4	9468 B3
L02 E1	2503 B2	3431 B3	5528 C2	9027 A6	9471 B2
L03 A1	2504 D1	3437 A1	5534 D3	9028 A6	9472 A2
L08 C4	2505 D1	3438 B2	5538 D3	9029 B5	9473 B2
L13 C4	2509 D2	3439 B3	5543 D4	9031 C4	9500 D2
L27 B3	2511 C2	3458 A1	5548 D1	9032 C5	9501 D2
L28 G1	2512 C3	3459 A1	5555 D3	9033 C5	9503 E2
L30 A1	2513 C3	3480 B1	6008 A3	9034 C5	9504 E2
L31 E2	2517 C3	3481 A1	6203 H2	9035 A4	9505 C1
L33 G2	2518 C3	3482 A1	6204 H2	9036 A4	9506 D1
L34 G2	2519 E2	3483 A1	6210 G3	9037 B3	9507 C2
L35 G3	2520 E2	3484 A1	6211 F3	9038 B3	9508 B2
L36 A2	2521 D1	3486 A1	6212 F4	9041 C4	9510 D2
L37 A3	2522 D1	3487 B2	6213 F4	9042 C4	9511 C2
L38 A2	2523 C1	3488 A1	6216 F5	9043 D5	9513 D1
L39 F3	2524 D1	3489 A1	6220 G4	9044 A5	9521 E1
L40 E3	2525 D2	3473 B1	6221 G5	9045 D4	9522 E1
L61 G2	2526 C1	3480 B1	6230 E4	9046 D4	9524 D1
L62 E5	2527 C1	3500 B2	6231 E4	9047 E5	9530 B2
L65 G2	2529 F1	3502 B1	6232 E4	9048 D4	9533 C2
L67 D4	2531 D3	3503 B2	6233 E4	9050 A4	9534 C2
L68 C3	2533 D3	3504 D1	6236 D3	9051 D4	9536 C3
L69 A2	2534 D3	3505 D1	6237 E3	9052 D4	9537 C3
L80 G4	2535 C4	3506 C1	6238 E3	9053 D5	9539 C3
L87 B2	2536 D3	3507 D1	6262 E3	9054 D4	9541 D2
SK1 G3	2537 D3	3508 C2	6266 F2	9055 A4	9542 C2
SK2 B3	2541 C4	3509 C2	6272 G2	9056 A3	9543 C2
0207 A4	2542 C4	3510 D1	6280 C4	9057 C5	9544 D1
0211 A3	2543 C4	3513 C3	6306 F3	9058 G2	9545 C1
1200 G3	2554 C4	3514 F2	6451 B1	9059 G1	9547 D1
1250 F3	2556 B4	3515 C2	6452 B1	9060 G1	9548 D1
2015 A3	2600 F1	3516 C2	6453 B1	9064 B5	9549 E1
2016 A3	2608 F1	3517 C2	6480 F1	9065 B4	9550 C1
2017 A5	2610 F1	3518 E2	6504 D1	9066 B5	9551 C1
2019 A4	2611 F1	3519 E2	6506 C1	9067 A3	9552 F1
2020 A4	3002 B5	3520 E2	6515 C3	9068 G3	9555 D1
2021 A4	3003 B5	3521 E2	6516 C3	9200 E5	9556 C1
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2025 C5	3014 D4	3524 D1	6519 E2	9202 D3	9560 D3
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2061 C5	3020 B5	3532 C3	6527 C1	9205 H1	9563 C3
2062 D5	3021 B5	3533 C3	6529 F1	9206 H1	9565 B4
2063 D5	3022 B5	3534 D3	6536 D3	9216 G2	9566 D3
2070 A4	3033 D4	3536 D3	6536 C3	9217 G2	9567 D3
2071 A5	3054 A2	3538 D3	6542 C4	9218 H1	9601 E1
2072 D4	3067 A4	3537 F2	6547 D3	9219 E3	9614 E2
2073 D4	3068 A4	3538 D3	6601 E1	9220 G4	9615 B2
2200 H3	3073 F5	3539 D1	7000 C5	9221 G3	
2202 G2	3201 H3	3540 C4	7001 D6	9222 F3	
2203 H2	3202 F5	3541 C4	7002 C5	9223 F4	
2210 F4	3203 H2	3545 E2	7009 G1	9224 F5	
2211 F4	3204 H1	3553 B4	7011 B5	9225 E3	
2214 G4	3205 G1	3558 B3	7216 G5	9228 E4	
2215 G4	3209 G1	3560 C3	7241 B4	9229 E5	
2216 G6	3210 F3	3602 B2	7242 B4	9230 F3	
2218 F5	3211 G3	3607 B2	7250 F3	9231 E5	
2219 F5	3212 F3	3612 E1	7268 F2	9232 E4	
2231 E4	3216 F4	3614 F1	7270 F2	9233 F2	
2232 E5	3234 B4	3615 F1	7321 F3	9234 F1	
2233 E4	3238 C4	3622 E1	7400 B3	9235 E4	
2234 E5	3239 D3	3623 E1	7450 A1	9236 F1	
2236 D3	3240 E3	3624 E1	7469 B2	9237 F1	
2236 D4	3241 B4	3625 E1	7501 B2	9238 G3	
2237 E3	3243 B4	3626 B2	7504 D1	9239 B4	
2238 D4	3249 F3	3628 A1	7506 D1	9240 B4	
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2250 F3	3253 F2	5231 E5	7550 D3	9243 E3	
2254 F2	3255 F3	5233 E4	7551 B4	9244 B4	
2268 F3	3268 F2	5235 E4	7552 B4	9246 E1	
2261 E3	3271 F2	5237 E3	7608 F1	9250 F2	
2263 E2	3275 G2	5241 C4	7610 E1	9251 F2	
2270 G1	3299 F5	5255 F3	9000 A4	9385 E2	
2402 A2	3376 E3	5260 E3	9001 C5	9405 A1	
2403 A2	3406 B3	5262 E3	9003 A4	9406 B2	
2404 A2	3409 B3	5381 E3	9008 B5	9407 B2	
2406 B3	3410 B3	5503 B1	9010 C5	9450 B1	
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2410 B2	3416 B3	5506 C1	9013 A4	9453 B2	
2411 B2	3417 B3	5510 D1	9015 B4	9454 B2	
2412 C3	3419 B3	5511 D3	9017 B5	9456 B2	
2419 A2	3420 B3	5514 F2	9020 D6	9457 A1	
2452 B1	3421 B3	5520 E2	9022 A3	9459 A3	
2456 A2	3422 B3	5521 E1	9023 A4	9460 B2	
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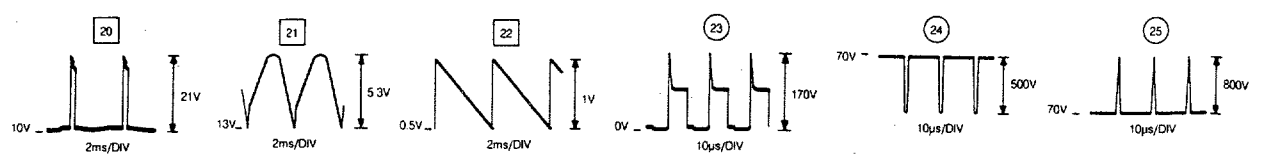
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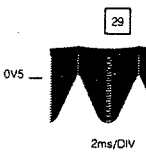
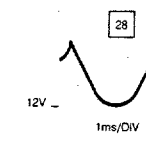
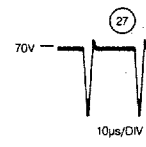
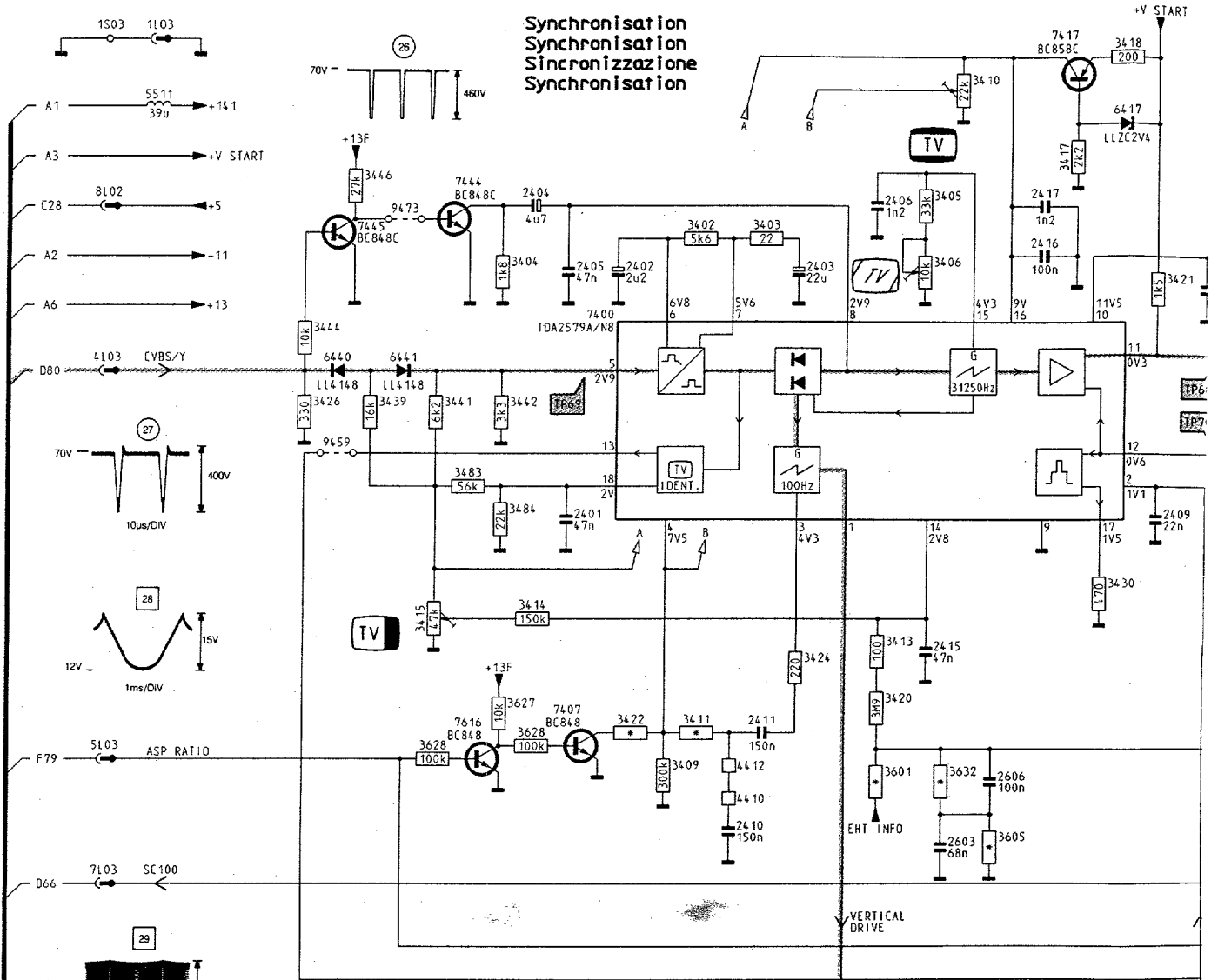


8204 004 12243

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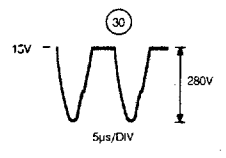


Synchronisation
Synchronisation
Sincronizzazione
Synchronisation



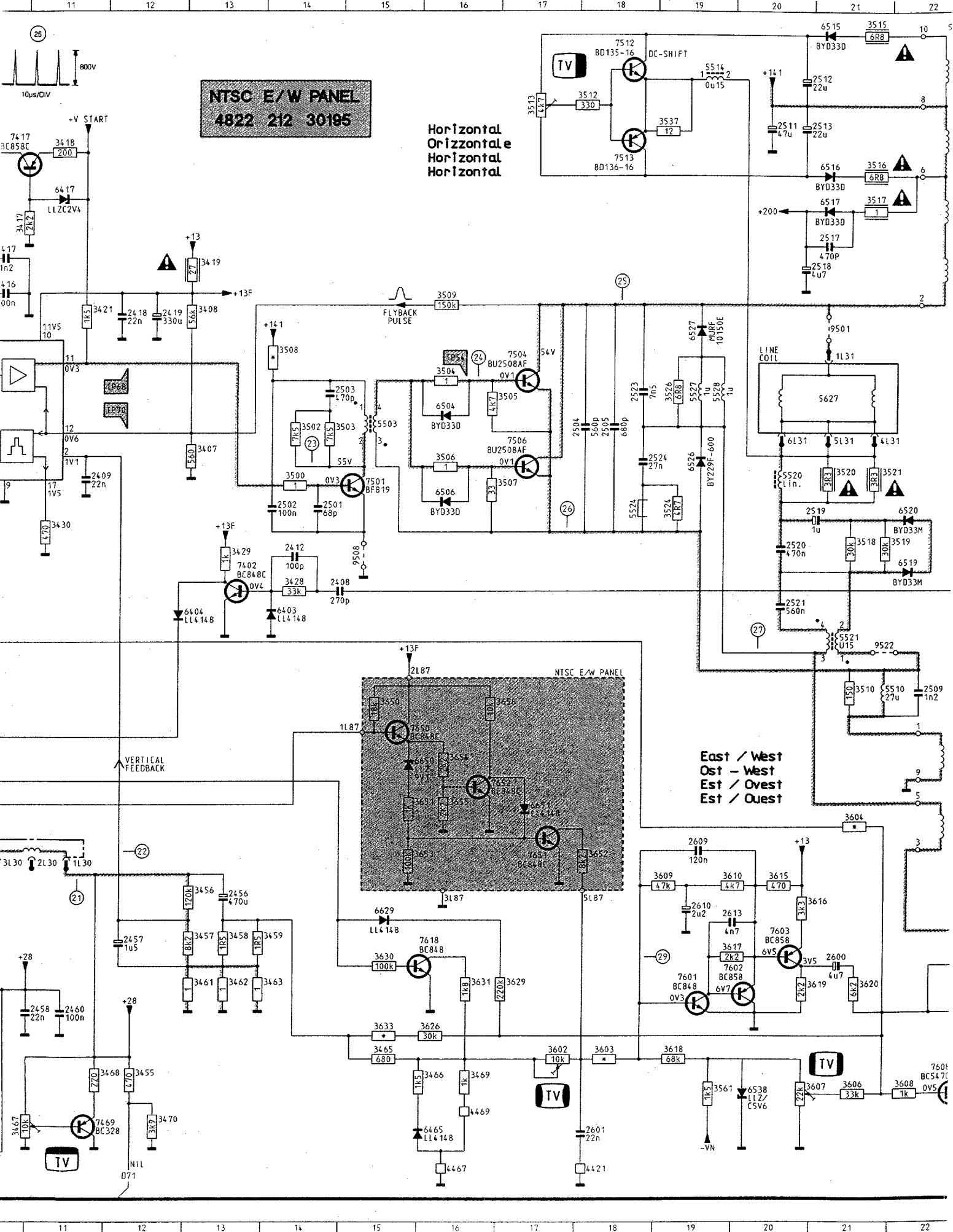
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

*	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	4.7
3508	1k8	1k5	1k5
3538	13k	12k	12k
3601	100k	120k	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
3633	100k	200k	200k



Vertical
Vertical
Vertical
Vertical

6.10 **6.11 CHASSIS FL1.6 Synchronisation**

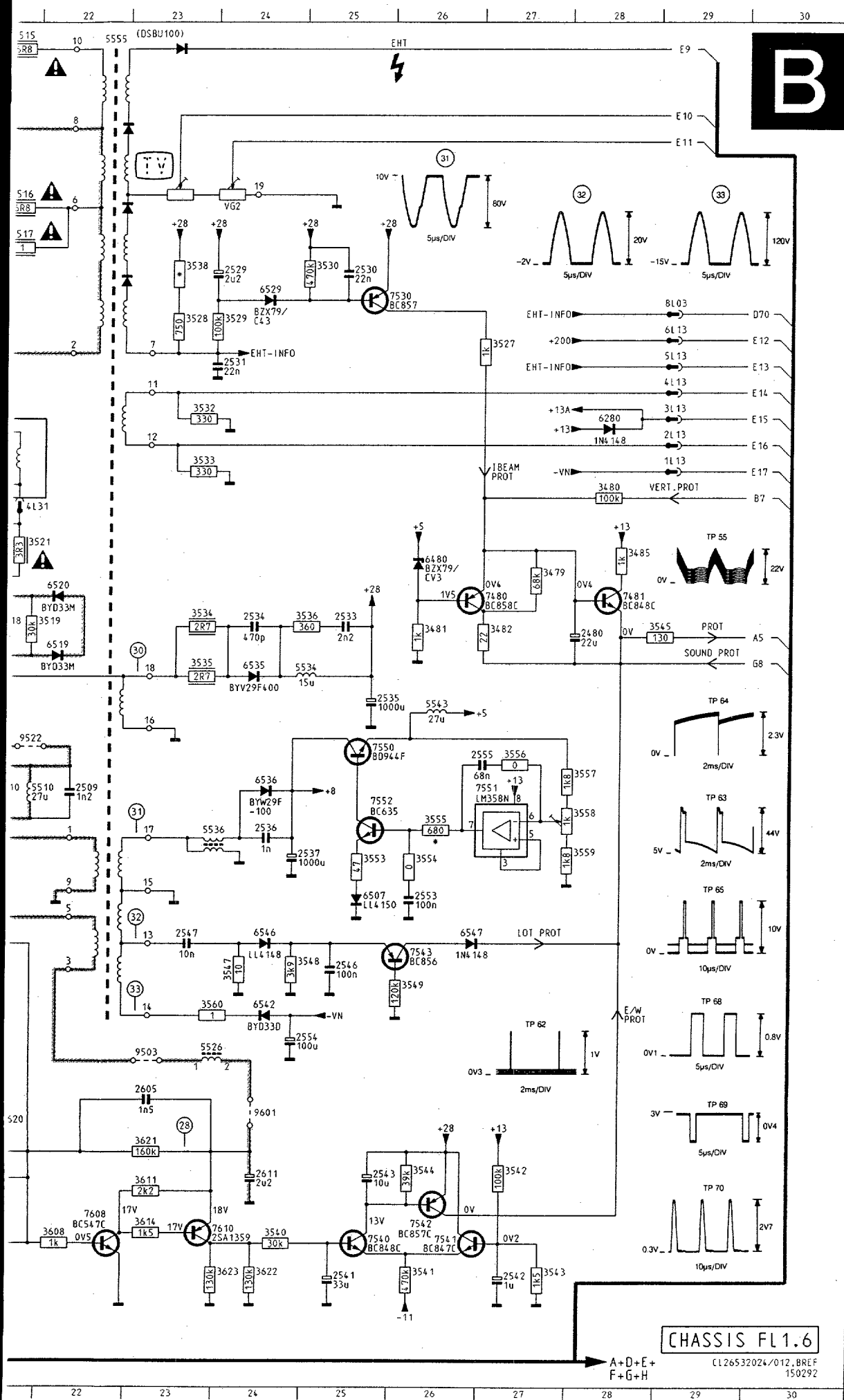


NTSC E/W PANEL
4822 212 30195

Horizontal
Orizzontale
Horizontal
Horizontal

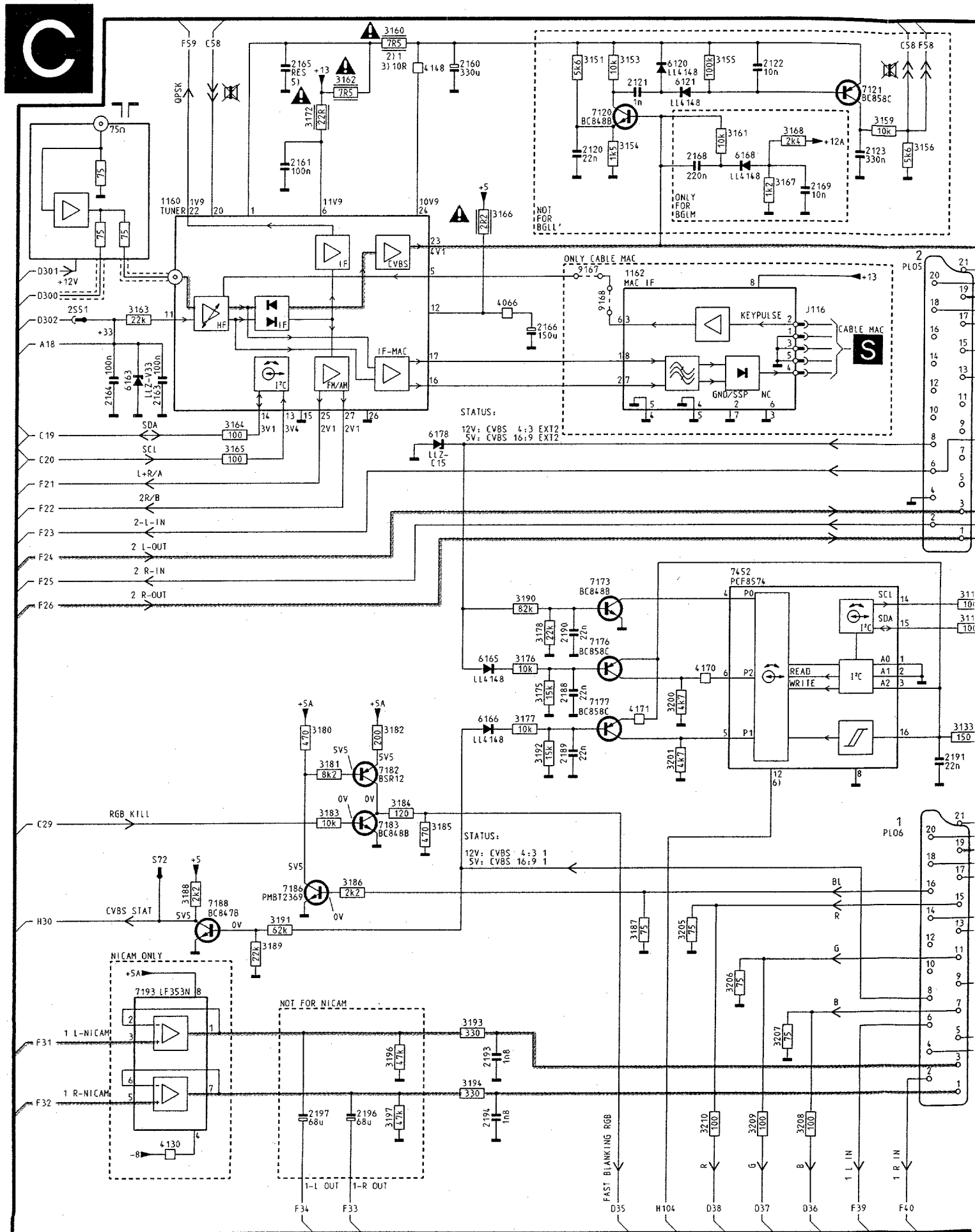
East / West
Est - West
Est / West
Est / Ouest

NTSC E/W PANEL



2401	F 6	3465	N15	5524	G18
2402	D 6	3466	N16	5526	L23
2403	D 8	3467	N10	5527	E19
2404	C 6	3468	N11	5528	E19
2405	D 6	3469	N16	5534	H25
2408	H14	3470	N12	5536	I23
2409	F11	3473	M10	5543	H26
2410	I 7	3474	L12	5555	A22
2411	H 8	3479	F27	5627	E21
2412	G14	3480	F28	6280	E28
2415	G 9	3481	G26	6403	H14
2416	D10	3482	G27	6404	G12
2417	C10	3483	F 5	6405	G10
2418	D12	3484	F 5	6417	C11
2419	D12	3485	F28	6440	E 4
2450	M11	3500	F14	6441	E 4
2450	M 5	3502	F14	6451	N 9
2451	M 5	3503	F14	6452	M10
2452	M10	3504	E16	6453	L10
2455	K 6	3505	E16	6465	O16
2456	L13	3506	F16	6466	O16
2457	L12	3507	F16	6480	F26
2458	M11	3508	E14	6504	E16
2459	L 9	3509	D16	6506	F16
2461	L 9	3510	I21	6507	J25
2480	G28	3512	A18	6515	A21
2501	G14	3513	B17	6516	B21
2502	G14	3515	A21	6517	C21
2503	E14	3516	B21	6519	G22
2504	F18	3517	C21	6520	G22
2505	F18	3518	G21	6526	F19
2509	I22	3519	G21	6527	D19
2511	B20	3520	F21	6529	C24
2512	A20	3521	F21	6535	H24
2513	B20	3522	F22	6536	I24
2517	C21	3524	G19	6538	H20
2518	D20	3525	B 9	6542	K24
2519	G21	3526	E19	6546	K24
2520	G20	3527	D27	6547	L26
2521	H20	3528	D23	6629	K15
2523	E18	3529	D24	6650	J15
2524	F18	3530	C25	6651	J17
2529	C24	3532	E23	7400	D 6
2530	C25	3533	E23	7402	G13
2531	D24	3534	G23	7403	G10
2533	G25	3535	H23	7407	H 6
2534	G24	3536	G25	7417	B10
2535	H25	3537	B19	7444	C 5
2536	J24	3538	C23	7445	D 4
2537	I24	3540	N24	7450	L 6
2540	D25	3541	N26	7451	K 5
2541	H25	3542	M27	7469	N11
2542	H27	3543	N27	7480	G27
2543	M25	3544	M26	7481	G28
2546	K25	3545	G29	7501	F15
2547	K23	3547	K24	7504	E17
2553	J26	3548	K24	7506	F17
2554	L24	3549	K26	7512	A18
2555	I27	3553	J25	7513	B18
2600	L21	3554	J26	7530	C25
2601	O18	3555	I26	7540	N25
2603	I 9	3555	J16	7541	N26
2605	L23	3556	I27	7542	N26
2606	I10	3557	I28	7543	K26
2609	K19	3558	I28	7550	I25
2610	L19	3559	J28	7551	I26
2611	M24	3560	K23	7552	I25
2613	L20	3561	N19	7601	M19
2618	D 7	3601	H 9	7602	M20
3403	O 8	3602	N17	7603	L20
3404	O 5	3603	N18	7608	N22
3406	D 9	3604	K21	7610	N24
3406	C 9	3605	I10	7616	H 5
3406	C 9	3606	N21	7618	L16
3407	F13	3607	N20	7650	I15
3408	D13	3608	N22	7651	K17
3409	H 7	3609	K19	7652	J16
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3413	G 9	3614	N23	9501	D21
3414	G 6	3615	K20	9503	L23
3415	G 5	3616	L20	9508	G15
3417	C10	3617	L20	9522	H21
3418	B11	3618	N19	9601	M24
3419	C13	3619	M20		
3420	H 9	3620	M21		
3421	O11	3621	M23		
3422	H 7	3622	N24		
3423	B 8	3623	N24		
3424	G 8	3626	M16		
3426	E 4	3627	H 5		
3427	C 9	3628	H 6		
3428	H14	3628	H 5		
3429	G13	3629	M17		
3430	G11	3630	L15		
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3441	E 5	3651	J15		
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3450	L 5	4400	K 7		
3451	L 5	4410	I 7		
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3456	K13	4421	O18		
3457	L13	4467	O16		
3458	L13	4469	N16		
3459	L14	5503	F15		
3460	N10	5510	I21		
3461	M13	5511	B 2		
3462	M13	5514	A19		
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CHASSIS FL1.6
 C126532024/O12, BREF
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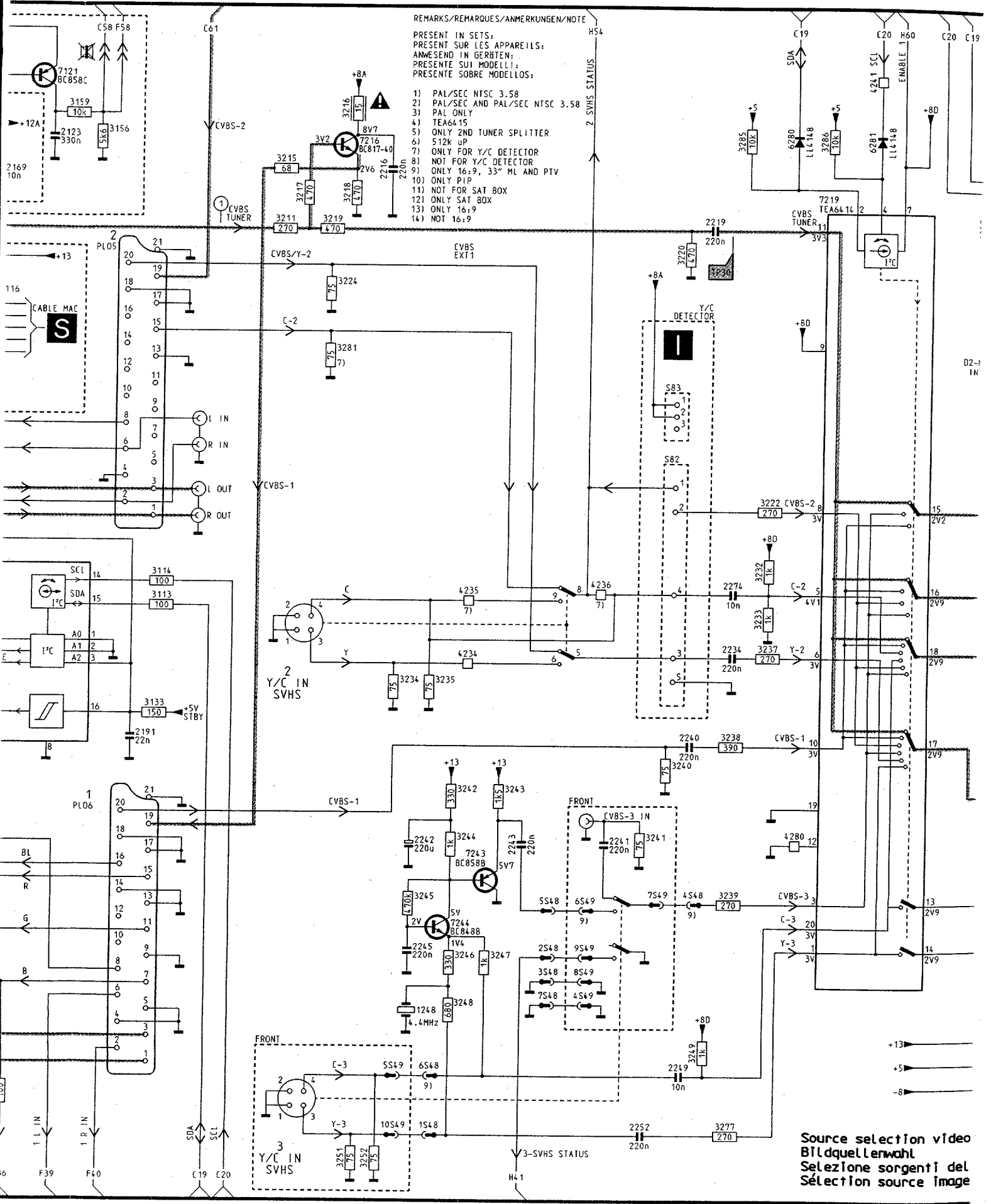


Sélection de source

REMARKS/REMARKES/ANMERKUNGEN/NOTE

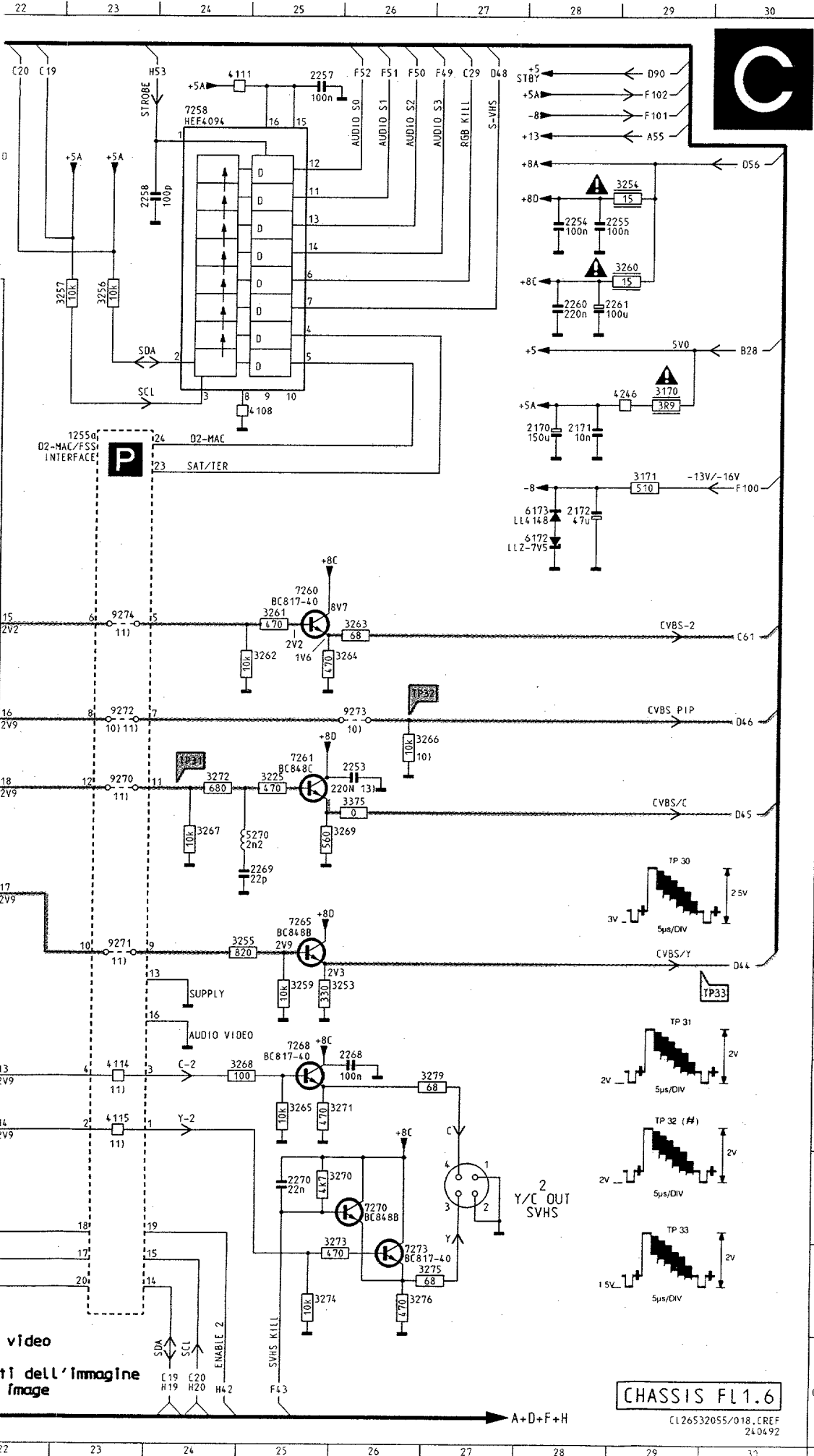
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 PRESENT SUR LES APPAREILS:
 ANWESEND IN GERÄTEN:
 PRESENTE SUI MODELLI:
 PRESENTE SOBRE MODELOS:

- 1) PAL/SEC NTSC 3.58
- 2) PAL/SEC AND PAL/SEC NTSC 3.58
- 3) PAL ONLY
- 4) TEA6415
- 5) ONLY 2ND TUNER SPLITTER
- 6) 512k up
- 7) ONLY FOR Y/C DETECTOR
- 8) NOT FOR Y/C DETECTOR
- 9) ONLY 16:9, 33" ML AND PTV
- 10) ONLY PIP
- 11) NOT FOR SAT BOX
- 12) ONLY SAT BOX
- 13) ONLY 16:9
- 14) NOT 16:9



Source selection video
 Bildquellenwahl
 Selezione sorgenti del
 Sélection source image

6.15 CHASSIS FL1.6

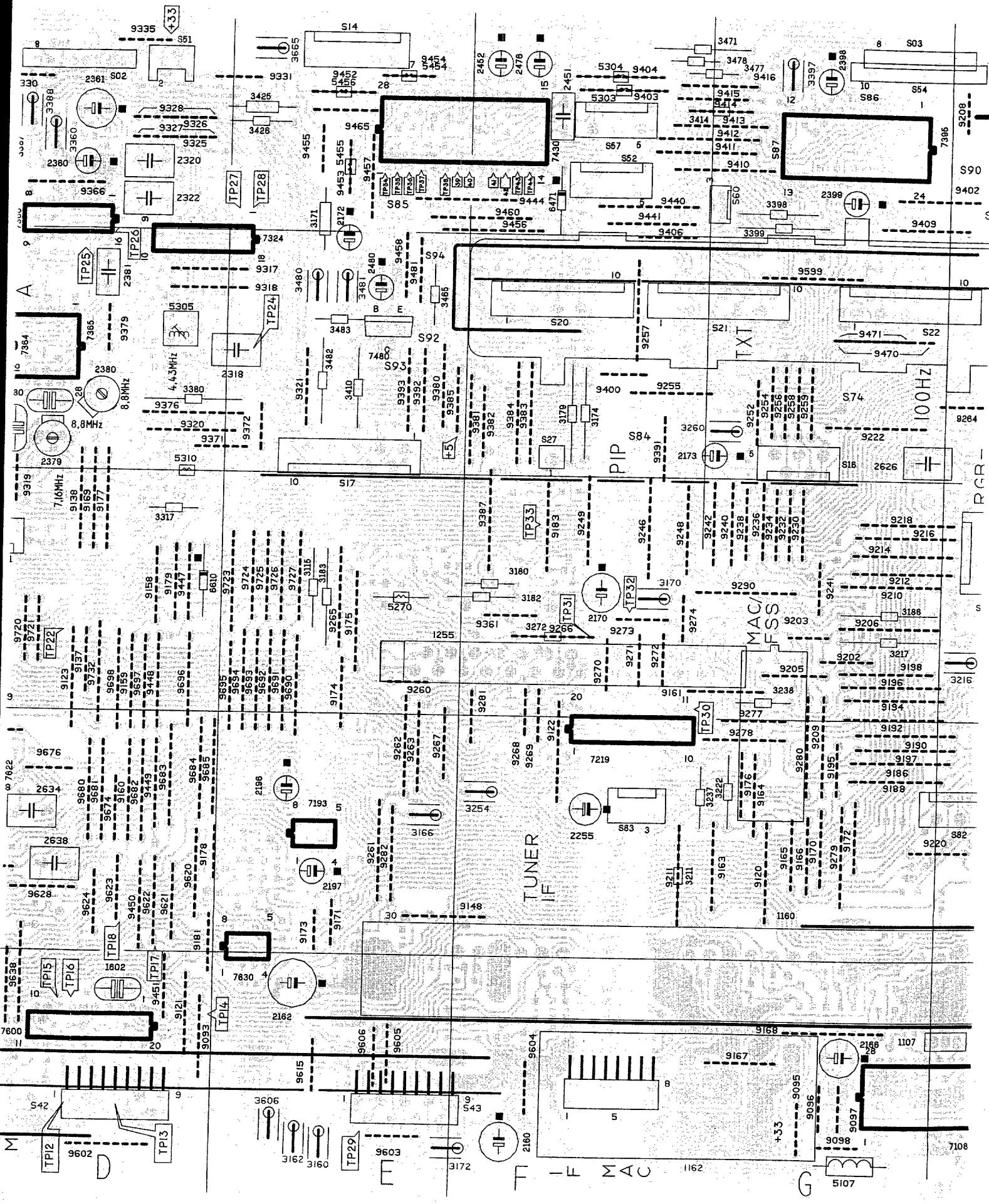


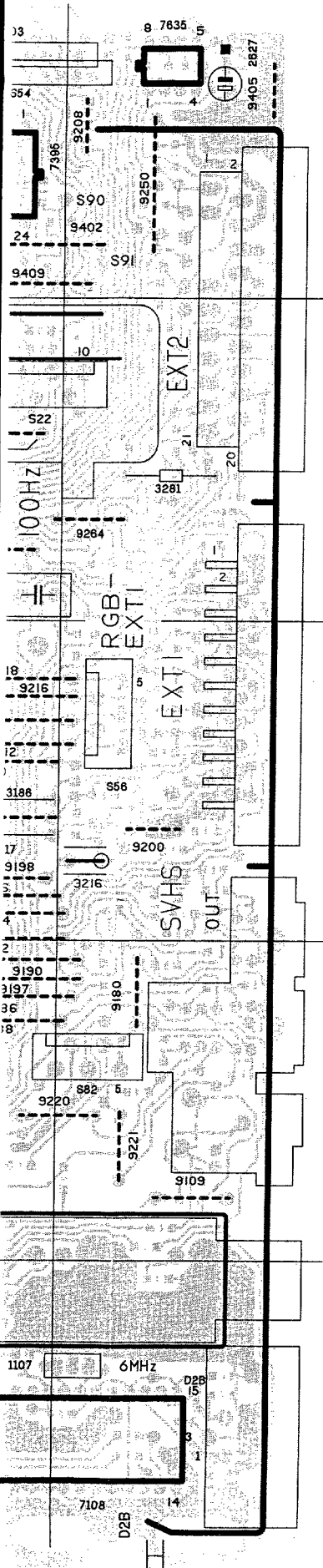
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2121	A 8	3246	L16
2122	A10	3247	L16
2123	B11	3248	M16
2160	A 6	3249	N19
2161	B 4	3251	O15
2163	E 2	3252	O15
2164	E 2	3253	K25
2165	A 4	3254	B29
2166	O 7	3255	J25
2168	B 9	3256	C23
2169	C10	3257	C23
2170	E28	3259	K25
2171	E28	3260	C29
2172	F28	3261	G25
2188	I 7	3262	G25
2189	J 7	3263	G26
2190	H 7	3264	G25
2191	J12	3265	L25
2193	M 6	3266	H26
2194	N 6	3267	L24
2196	N 5	3268	L25
2197	N 4	3269	L25
2216	C15	3270	M25
2219	C19	3271	L25
2234	I19	3272	L24
2240	J19	3273	N26
2241	K18	3274	N27
2242	K15	3275	N25
2243	K17	3276	N26
2245	L15	3277	O19
2249	N19	3279	L27
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2253	H26	3285	B19
2254	C28	3286	B21
2255	C28	3375	I26
2257	A25	4066	D 7
2258	B23	4108	E25
2260	C28	4111	A24
2261	C28	4114	L23
2268	L26	4115	L23
2269	J25	4130	N 3
2270	M25	4148	A 6
2274	H19	4170	I 9
3113	H12	4171	I 8
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3133	I12	4235	H16
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3153	A 8	4241	B21
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3160	A 5	6121	A 9
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3163	D 2	6166	I 6
3164	F 3	6168	B 9
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3166	C 6	6173	F28
3167	C10	6178	F 6
3168	B10	6280	B20
3170	O29	6281	B21
3171	E29	7120	B 8
3172	B 4	7121	B11
3175	I 7	7173	G 8
3176	H 7	7176	H 8
3177	I 7	7177	I 8
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3180	I 4	7183	J 5
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3182	I 5	7188	K 3
3183	J 4	7193	L 2
3184	J 5	7216	B15
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3186	K 5	7243	K16
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3189	L 4	7260	G25
3190	H 7	7261	H25
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3192	J 7	7268	K25
3193	M 6	7270	M26
3194	N 6	7273	N26
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3201	J 9	9270	I23
3205	L 9	9271	J23
3206	L 9	9272	H23
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3209	N10		
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3215	C14		
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3220	D19		
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CHASSIS FL1.6

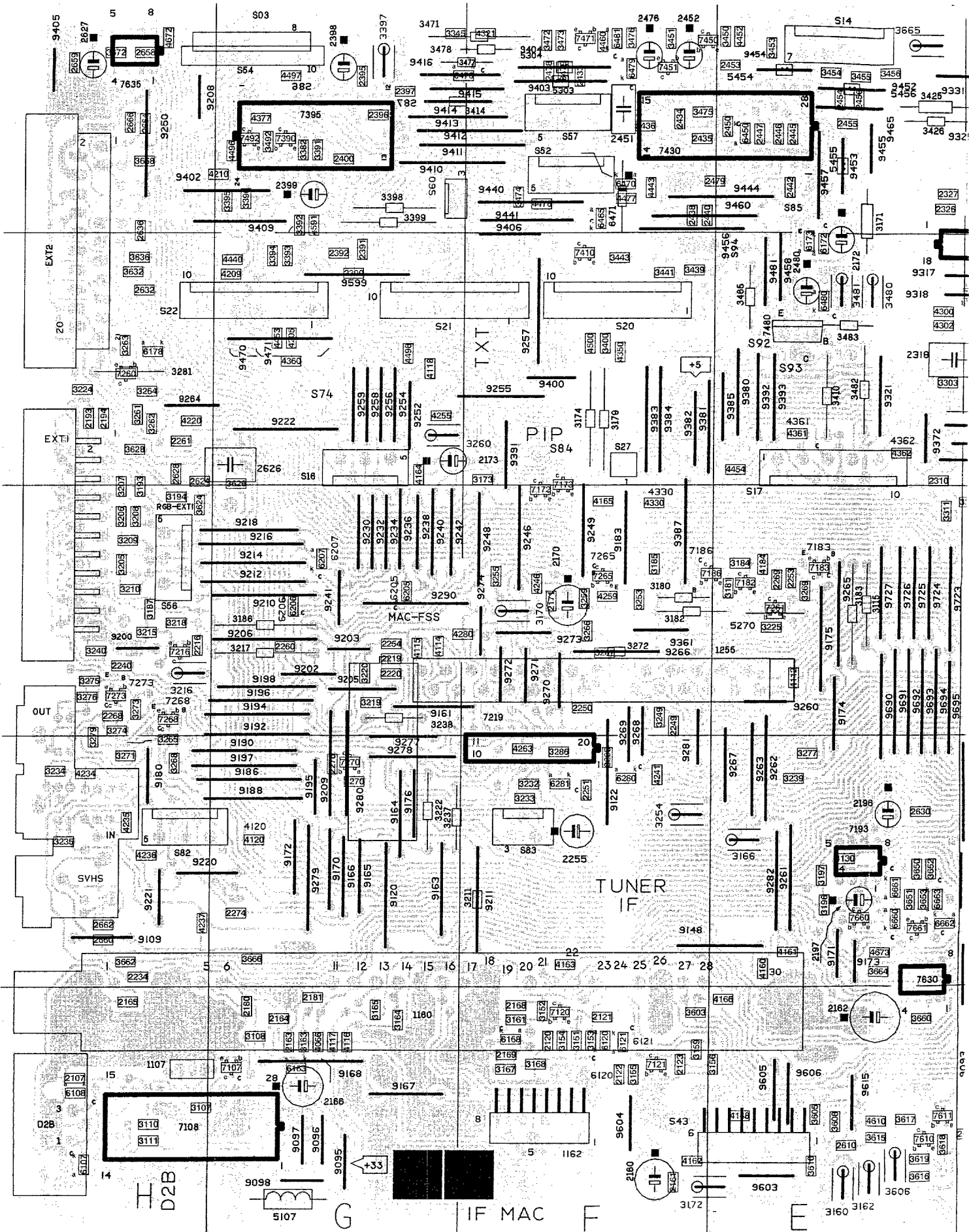
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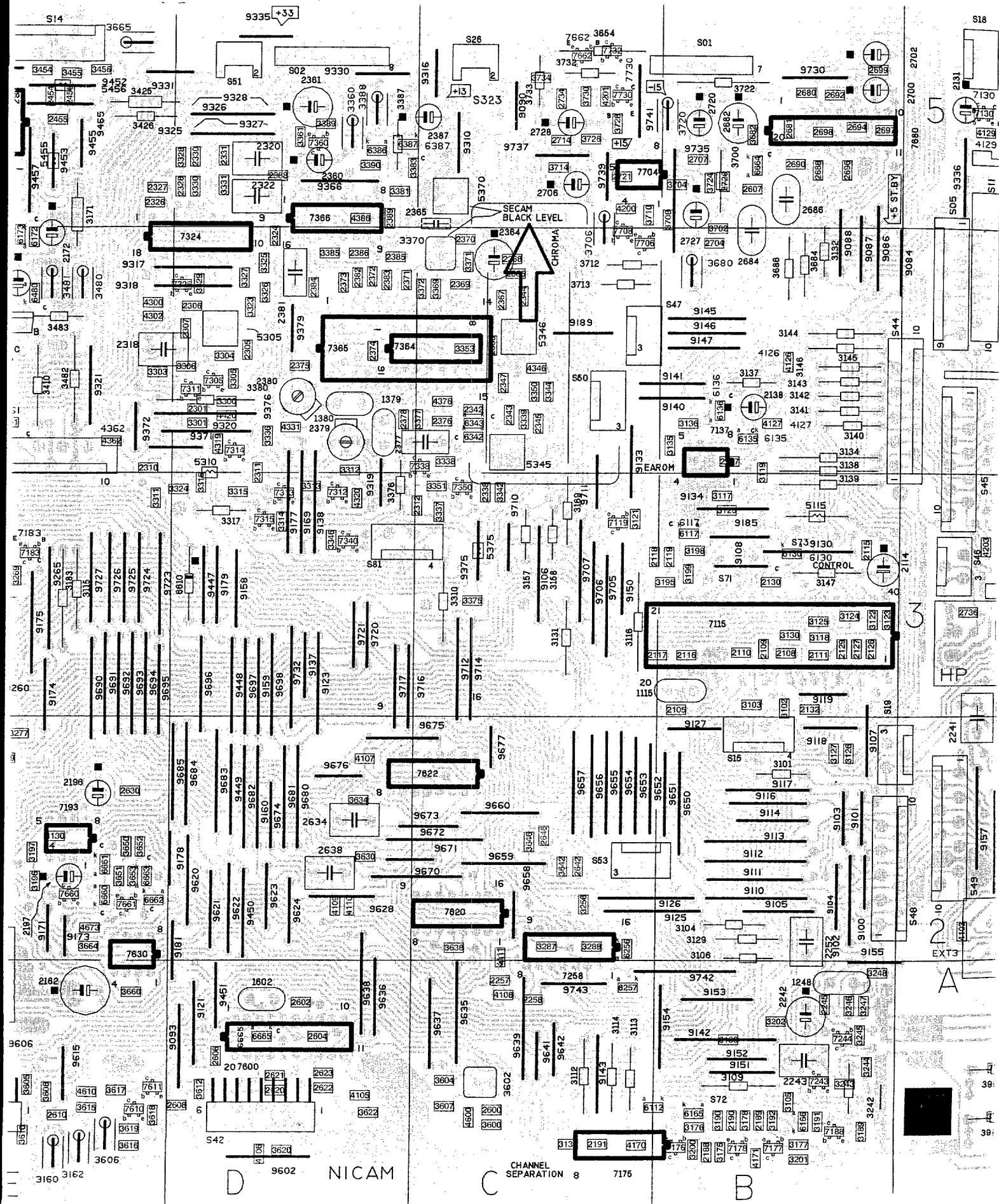
A+D+F+H





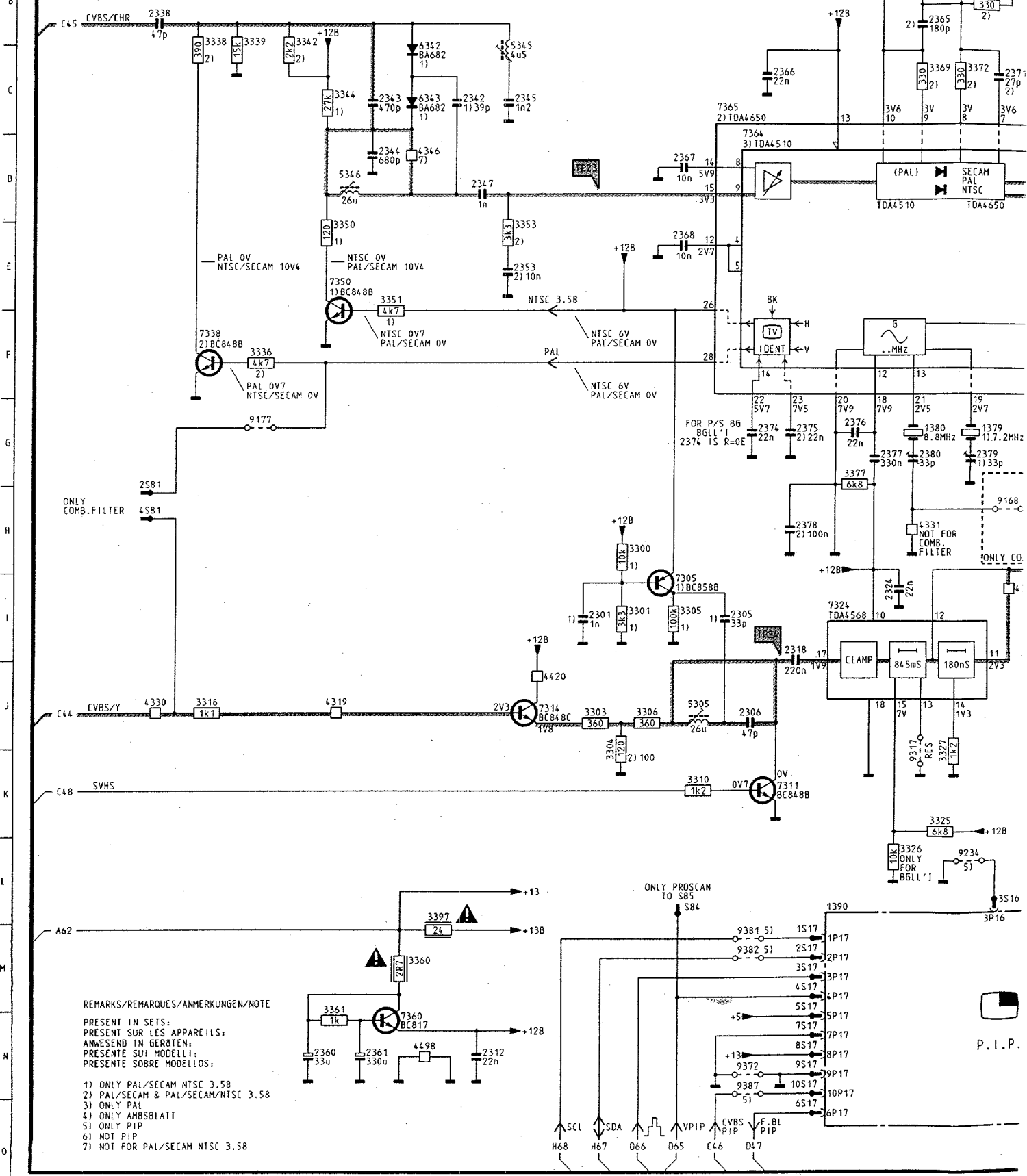
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EXT2 H4	2684 B4	3686 B4	9145 B4	9265 E3	9605 E1
EXT3 A3	2686 B5	3700 B5	9146 B4	9266 F3	9606 E1
SVHS H2	2700 B5	3706 C4	9147 B4	9267 E2	9616 E1
S01 B5	2702 B6	3712 C4	9148 E2	9268 F3	9620 D2
S02 D5	2706 C6	3713 C4	9150 C3	9269 F3	9621 D2
S03 H5	2720 B6	3720 B6	9151 B1	9270 F3	9622 D2
S05 A4	2727 B6	3722 B6	9152 B1	9271 F3	9623 D2
S11 A5	2728 C6	3732 C6	9153 B1	9272 F3	9624 D2
S14 E5	3101 B2	3733 C5	9154 B1	9273 F3	9628 D2
S15 B2	3104 B2	3996 A1	9155 B1	9274 F3	9635 C1
S16 G4	3106 B2	3999 A1	9156 A2	9277 G2	9636 D1
S17 E4	3109 B1	5100 A5	9157 A2	9278 G2	9637 C1
S18 A5	3112 C1	5107 G1	9158 D3	9279 G2	9638 D1
S19 B2	3113 C1	5115 B3	9159 D3	9280 G2	9639 C1
S20 F4	3114 C1	5270 E3	9160 D2	9281 F2	9641 C1
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S22 G4	3116 C3	5304 F6	9163 G2	9290 G3	9650 B2
S26 C5	3129 B2	5305 D4	9164 G2	9310 C5	9651 B2
S27 F4	3131 C3	5310 D4	9165 G2	9316 C5	9652 C2
S42 D1	3132 B4	5346 C4	9166 G2	9317 D4	9653 C2
S43 F1	3134 B4	5348 C4	9167 G1	9318 D4	9654 C2
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S45 A4	3138 B4	5376 C3	9169 D3	9320 D4	9656 C2
S46 A3	3139 B3	5454 E5	9170 G2	9321 E4	9657 C2
S47 C4	3140 B4	5455 E5	9171 E2	9325 D6	9658 C2
S48 B2	3141 B4	5456 E5	9172 G2	9326 D6	9659 C2
S49 A2	3142 B4	6471 F6	9173 E2	9327 D6	9660 C2
S50 C4	3143 B4	6610 D3	9174 E3	9328 D6	9670 C2
S51 D5	3144 B4	7115 B3	9175 E3	9330 D5	9671 D2
S52 F5	3146 B4	7137 B3	9176 G2	9331 E5	9672 C2
S53 C2	3146 B4	7193 E2	9177 D3	9335 D6	9673 C2
S54 H5	3147 B3	7219 F2	9178 D2	9336 A5	9674 D2
S56 H3	3157 C3	7324 E5	9179 D3	9361 F3	9675 D2
S57 F5	3158 C3	7366 D5	9180 H2	9366 D5	9676 D2
S60 G6	3160 E1	7395 G5	9181 D2	9371 D4	9677 C2
S81 D3	3162 E1	7430 E6	9183 F3	9372 E4	9680 D2
S82 H2	3166 E2	7480 E4	9185 B3	9375 C3	9681 D2
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1115 B3	3172 E1	9084 B4	9190 G2	9381 F4	9685 D2
1160 E2	3174 F4	9086 B4	9192 G3	9382 F4	9690 E3
1162 F1	3179 F4	9087 B4	9194 G3	9383 F4	9691 E3
1248 B1	3180 F3	9088 B4	9195 G2	9384 F4	9692 E3
1378 D4	3182 F3	9090 C5	9196 G3	9385 E4	9693 E3
1380 D4	3183 E3	9091 A5	9197 G2	9387 F3	9694 E3
1602 D1	3186 G3	9092 A5	9198 G3	9391 F4	9695 E3
2100 A5	3211 F2	9093 D1	9200 H3	9392 E4	9696 D3
2114 B3	3216 H3	9095 G1	9202 G3	9393 E4	9697 D3
2131 A5	3217 G3	9096 G1	9203 G3	9400 F4	9698 D3
2138 B4	3222 G2	9097 G1	9205 G3	9402 G5	9705 C3
2160 F1	3237 G2	9098 G1	9206 G3	9403 F6	9706 C3
2162 E1	3238 G3	9100 B2	9208 H6	9404 F6	9707 C3
2166 G1	3242 B1	9101 B2	9209 G2	9405 H5	9710 C3
2170 F3	3254 F2	9102 B2	9210 G3	9406 F4	9711 C3
2172 E4	3260 G4	9103 B2	9211 F2	9409 G6	9712 C3
2173 G4	3272 F3	9104 B2	9212 G3	9410 G5	9714 C3
2196 E2	3281 H4	9105 B2	9214 G3	9411 F5	9716 D3
2197 E2	3310 C3	9106 C3	9216 G3	9412 F5	9717 D3
2241 A2	3317 D3	9107 B2	9218 G3	9413 G5	9720 D3
2242 B1	3360 D5	9108 B3	9220 H2	9414 G5	9721 D3
2243 B1	3370 C4	9109 H2	9221 H2	9415 F5	9723 E3
2252 B2	3376 D3	9110 B2	9222 G4	9416 G5	9724 E3
2255 F2	3380 D4	9111 B2	9230 G3	9440 F5	9725 E3
2318 E4	3387 D6	9112 B2	9232 G3	9441 F5	9726 E3
2320 D5	3388 D5	9113 B2	9234 G3	9444 E5	9727 E3
2322 D5	3397 G5	9114 B2	9236 G3	9447 D3	9730 B5
2360 D5	3398 G5	9116 B2	9238 G3	9448 D3	9732 D3
2361 D5	3399 G5	9117 B2	9240 G3	9449 D2	9735 B5
2364 C4	3410 E4	9118 B2	9241 G3	9450 D2	9737 C5
2365 C5	3414 G5	9119 B3	9242 G3	9451 D1	9739 C5
2377 C4	3425 E5	9120 G2	9246 F3	9452 E5	9741 C5
2379 D4	3426 E5	9121 D1	9248 F3	9453 E5	9742 B1
2380 D4	3465 E4	9122 F2	9249 F3	9454 E5	9743 C1
2381 D4	3471 F5	9123 D3	9250 H5	9455 E5	
2387 C5	3477 G5	9125 C2	9252 G4	9456 F5	
2398 G5	3478 F5	9126 C2	9254 G4	9457 E5	
2399 G5	3480 E4	9127 B2	9255 F4	9458 E4	
2451 F5	3481 E4	9130 B3	9256 G4	9460 F5	
2452 F5	3482 E4	9133 C4	9257 F4	9465 E5	
2476 F5	3483 E4	9134 B3	9258 G4	9470 G4	
2480 E4	3602 C1	9137 D3	9259 G4	9471 G4	
2626 G4	3606 E1	9138 D3	9260 E3	9481 E4	
2627 H6	3654 C5	9140 B4	9261 E2	9599 G4	
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D

Chrominance processing Chrominanz-Prozessor Processore della crominanza Traitement chrominance

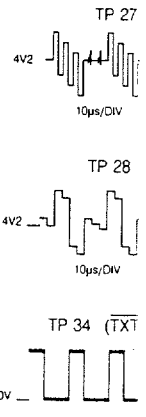
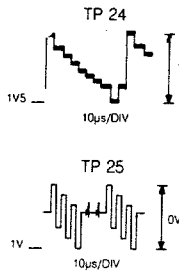
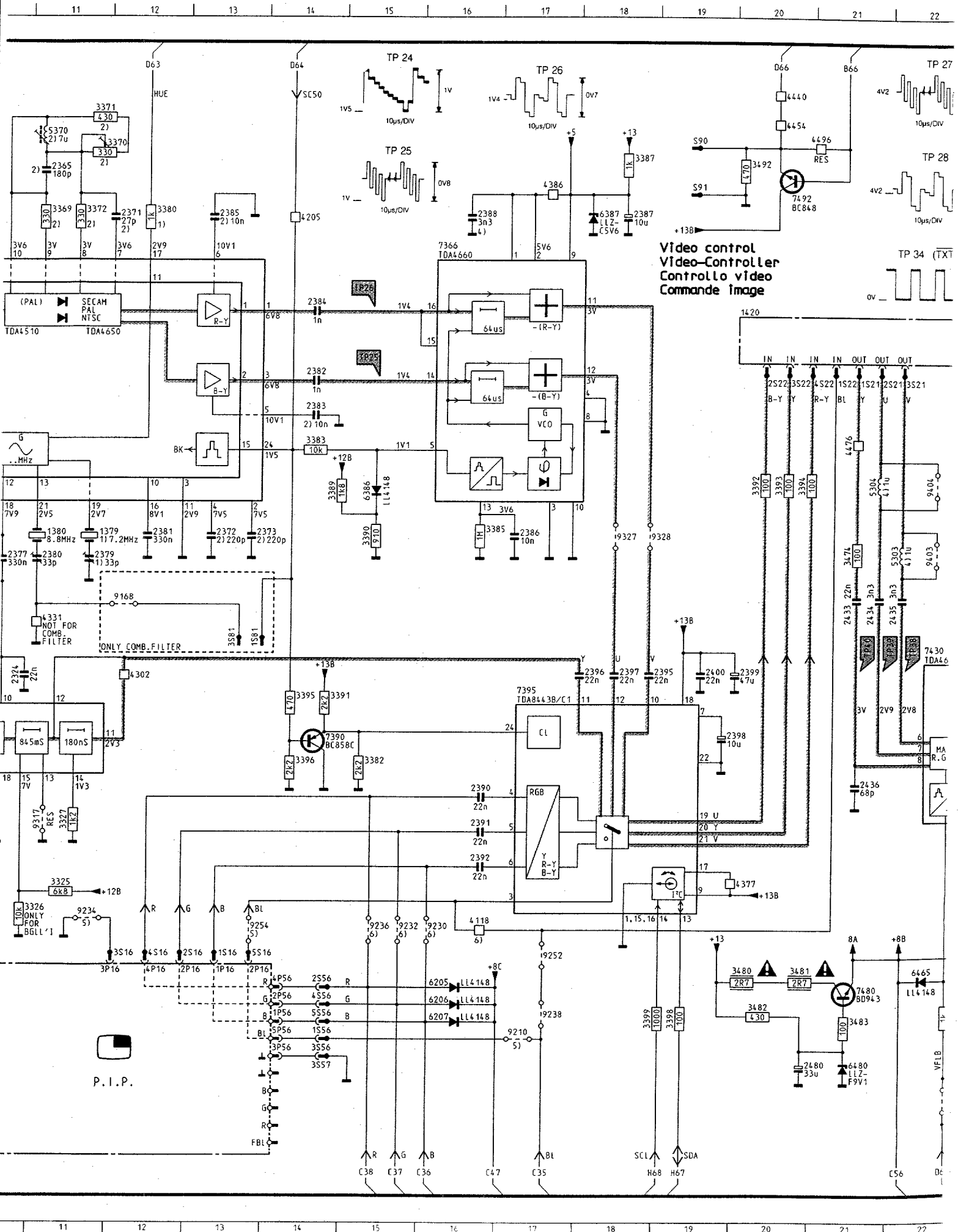


REMARKS/REMARQUES/ANMERKUNGEN/NOTE

- PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESSENT IN GERÄTEN:
PRESENTI SUI MODELLI:
PRESENTI SOBRE MODELLIS:
- 1) ONLY PAL/SECAM NTSC 3.58
- 2) PAL/SECAM & PAL/SECAM/NTSC 3.58
- 3) ONLY PAL
- 4) ONLY AMBSBLATT
- 5) ONLY PIP
- 6) NOT PIP
- 7) NOT FOR PAL/SECAM NTSC 3.58

P.I.P.

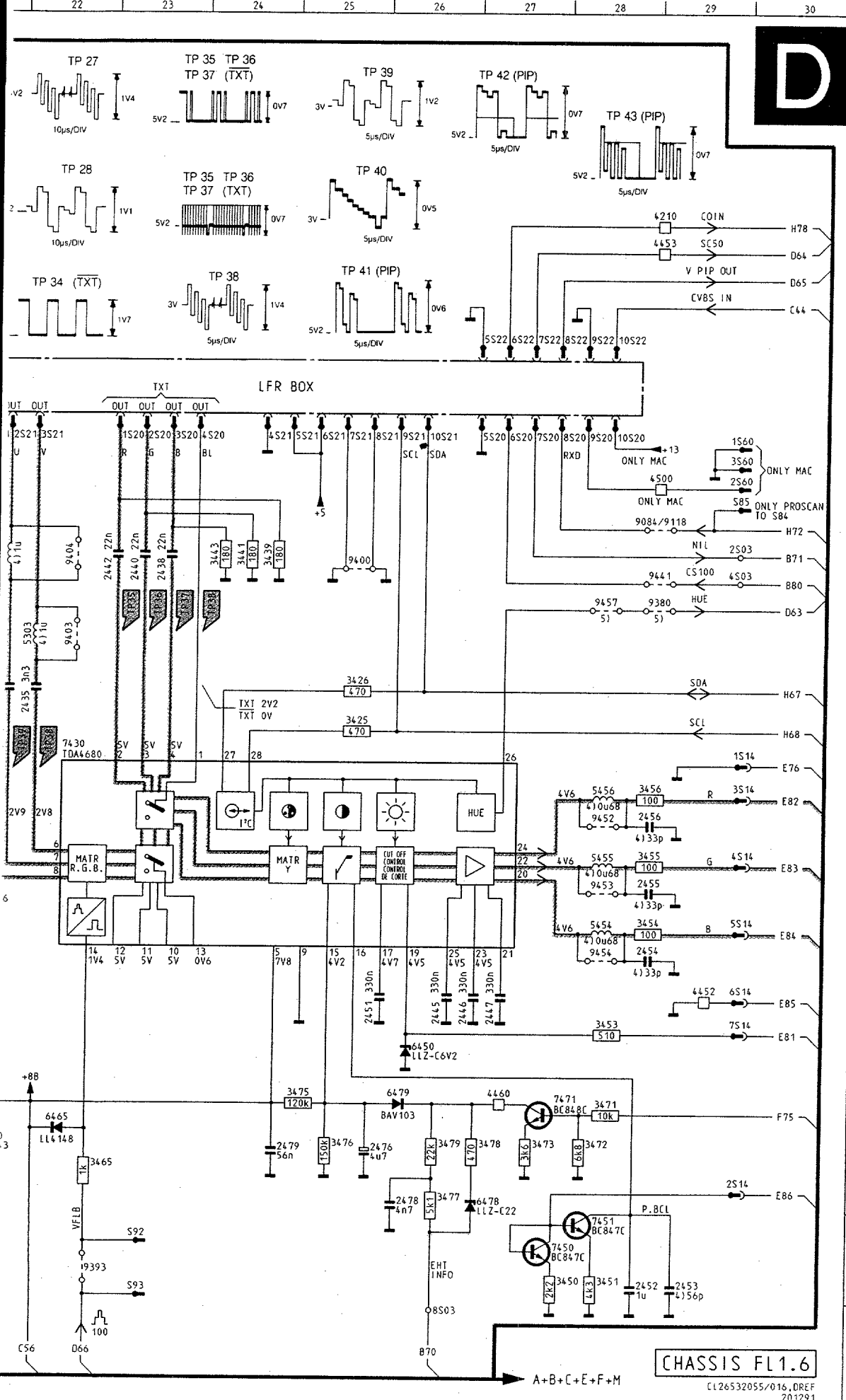
6.22 6.23 CHASSIS FL1.6 Traitement vidéo



Video control
Video-Controller
Controllo video
Comande image

P. I. P.

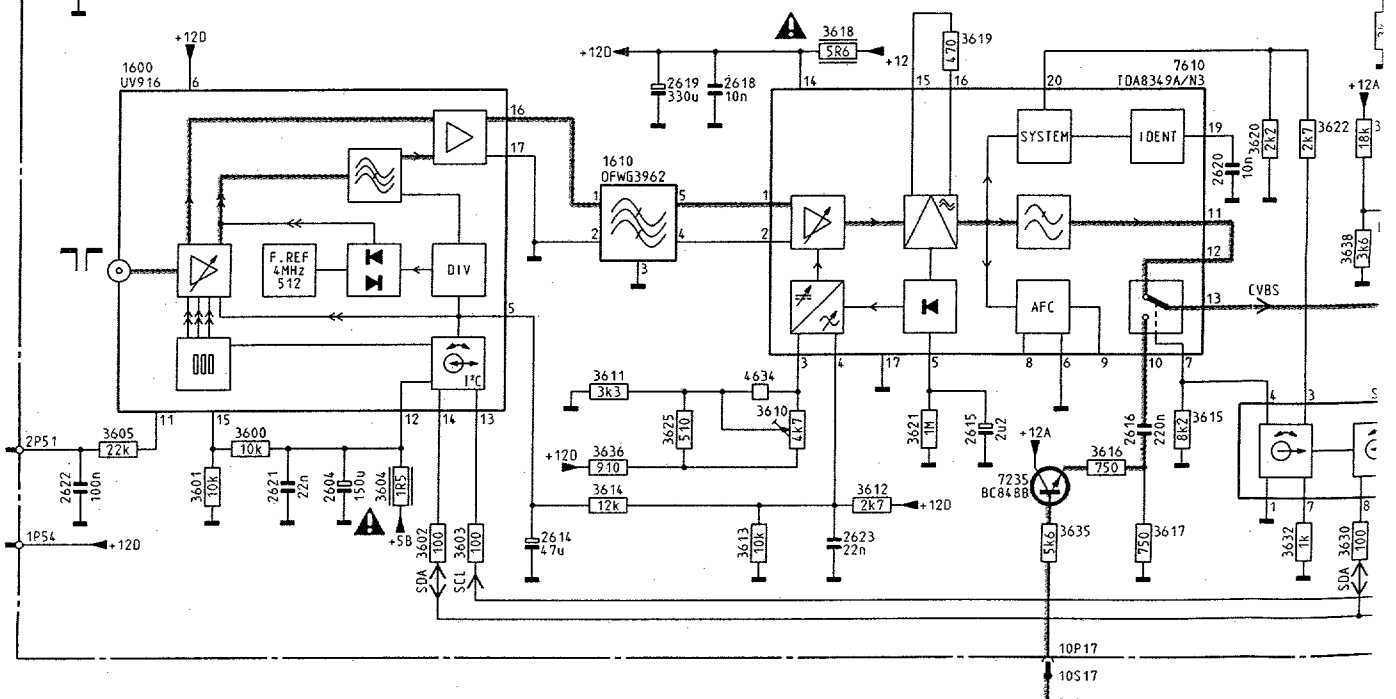
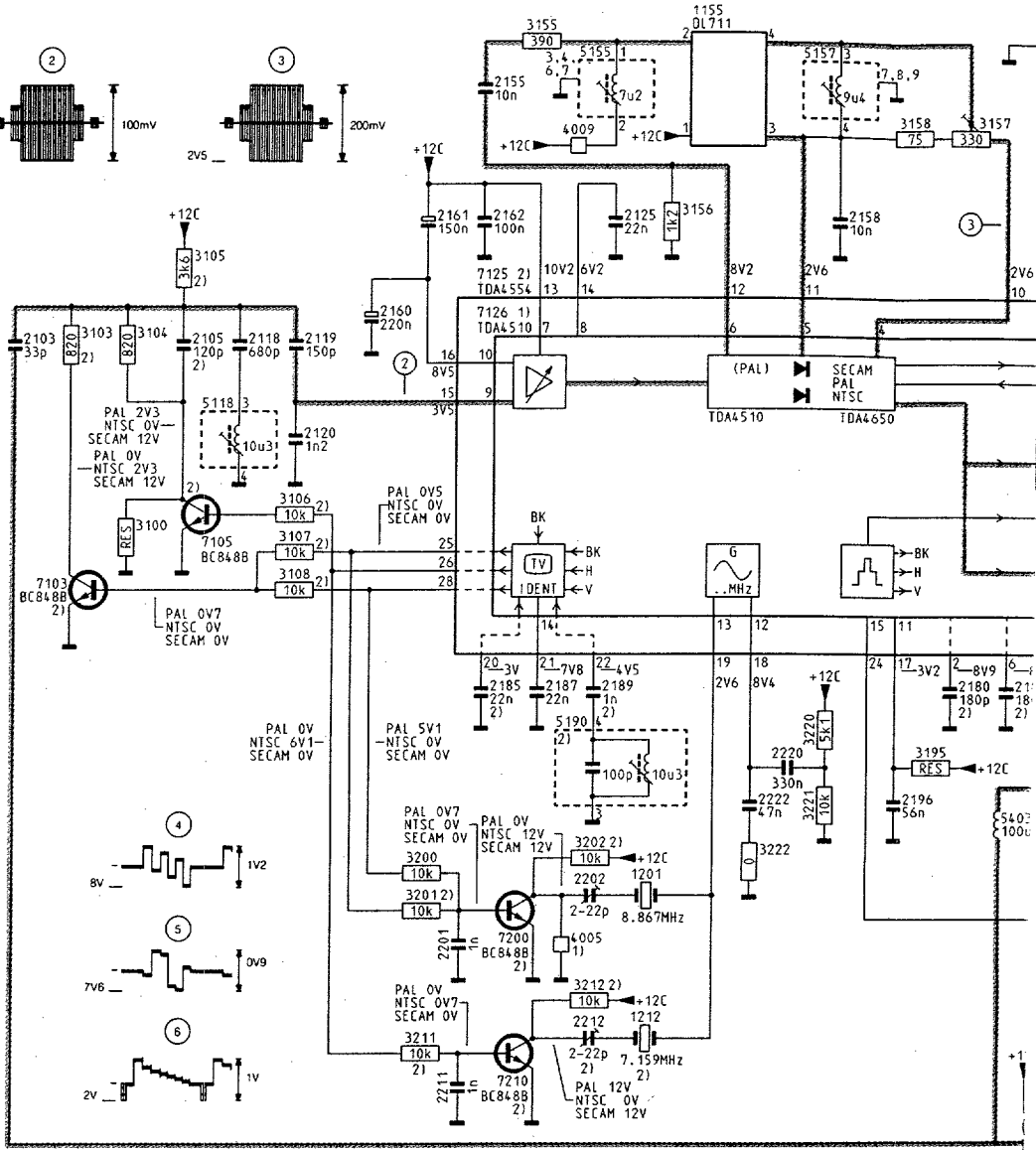
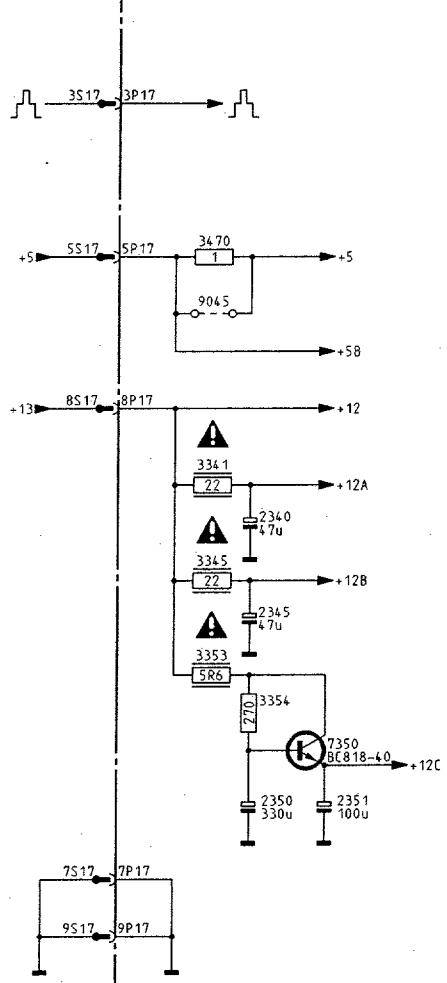
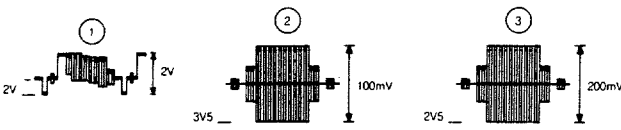
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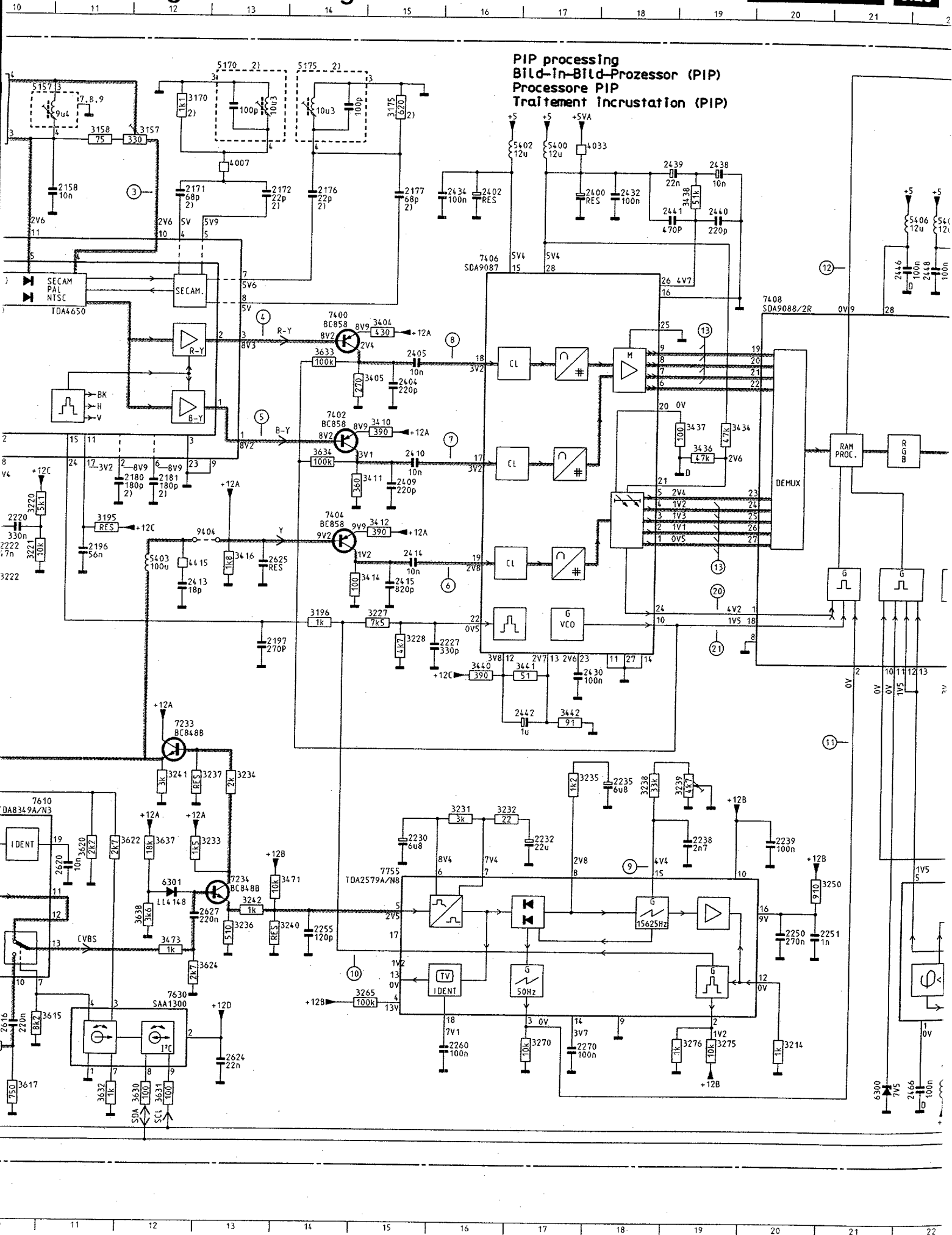


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1420	D20	3453	K28
2301	I 7	3454	J28
2305	I 9	3455	J28
2306	J 9	3456	I28
2312	N 6	3465	M22
2318	I 9	3471	L28
2324	I10	3472	M28
2338	B 2	3473	M27
2342	C 5	3474	G21
2343	C 4	3475	L25
2344	D 4	3476	M25
2345	C 6	3477	M26
2347	D 6	3478	M27
2353	E 6	3479	M26
2360	N 4	3480	L20
2361	N 4	3481	L20
2365	B11	3482	M20
2366	C 9	3483	M21
2367	D 8	3492	B20
2368	E 8	4118	L16
2371	C12	4205	C14
2372	G13	4210	C29
2373	G13	4302	I12
2374	G 9	4319	J 4
2375	G 9	4330	J 2
2376	G10	4331	H11
2377	G10	4346	D 5
2378	H 9	4377	K20
2379	G11	4386	B17
2380	G11	4420	J 6
2381	G12	4440	A20
2382	E14	4452	K29
2383	E14	4453	C29
2384	D14	4454	B20
2385	C13	4460	L27
2386	G17	4476	F21
2387	C18	4496	B21
2388	C16	4498	N 5
2390	J16	4500	E29
2391	K16	5303	G22
2392	K16	5304	F21
2395	I18	5305	J 8
2396	I18	5345	C 6
2397	I18	5346	D 4
2398	I19	5370	B11
2399	I20	5454	J28
2400	I19	5455	J28
2433	H21	5456	I28
2434	H21	6205	M16
2435	H22	6206	M16
2436	J21	6207	M16
2438	F23	6342	C 5
2440	F23	6343	C 5
2442	F22	6386	F15
2445	K26	6387	C18
2446	K26	6450	L26
2447	K27	6465	M22
2451	K25	6478	M27
2452	M28	6479	L26
2453	N29	6480	N21
2454	K28	7305	I 8
2455	J28	7311	K 9
2456	I28	7314	J 6
2476	M25	7324	I10
2478	M26	7338	F 2
2479	M24	7350	E 4
2480	N20	7360	N 5
3300	H 7	7364	D 9
3301	I 7	7365	C 8
3303	J 7	7366	C16
3304	K 7	7390	J14
3305	I 8	7395	I17
3306	J 8	7430	H22
3310	K 8	7450	N27
3316	J 3	7451	N28
3325	K11	7471	L27
3327	K11	7492	C20
3326	L10	7480	M21
3332	F 3	9084	F29
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3338	B 2	9168	H12
3339	B 3	9177	G 3
3342	B 3	9210	M17
3344	C 4	9230	L16
3350	D 4	9232	L15
3351	E 5	9234	L11
3353	D 6	9236	L15
3360	H 5	9238	M17
3361	N 4	9252	L17
3369	C11	9254	L13
3370	B11	9317	K11
3371	B11	9327	G18
3372	C11	9328	G18
3377	G10	9372	N 9
3380	C12	9380	G29
3382	J15	9381	M 9
3383	F14	9382	M 9
3385	G16	9387	N 9
3387	B18	9393	N22
3389	F14	9400	F25
3390	G15	9403	G22
3391	I14	9404	F22
3392	F20	9441	F29
3393	F20	9452	I28
3394	F20	9453	J28
3395	I14	9454	K28
3396	J14	9457	G28
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3425	H25		
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3439	F24		
3441	F24		

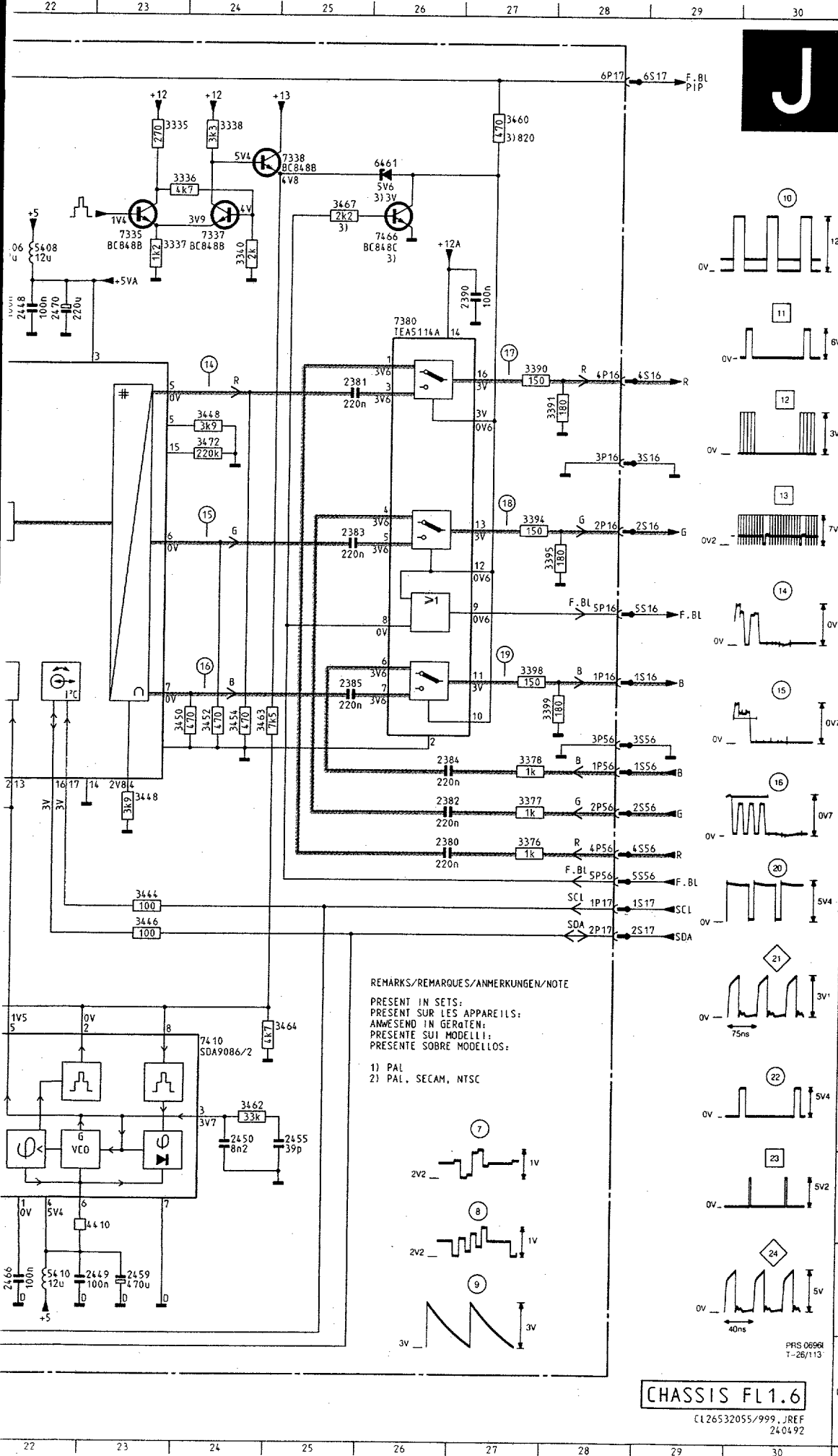


PIP-MODULE



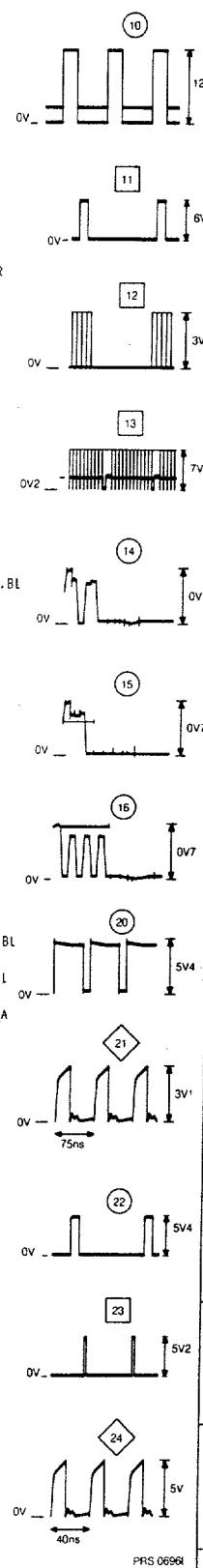
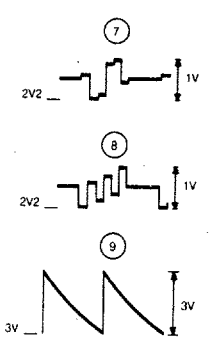


6.27 CHASSIS FL1.6



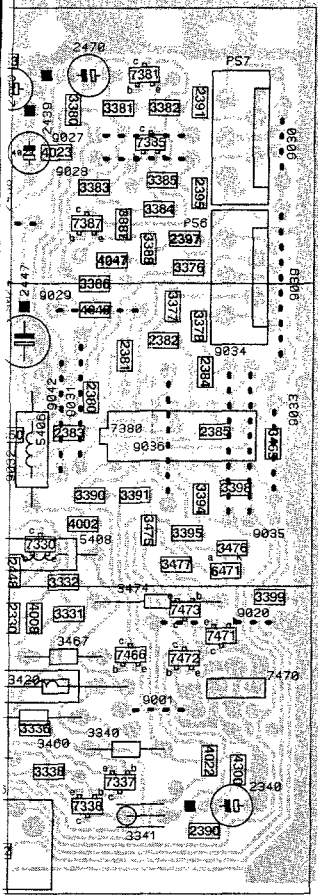
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1610	K 6	3232	J16	7103	E 4
2103	D 4	3233	K13	7105	E 5
2105	D 5	3234	J13	7125	C 8
2118	D 6	3235	J17	7126	C 8
2119	D 6	3236	L13	7200	H 8
2120	D 6	3237	J13	7210	I 8
2125	C 9	3238	J18	7233	I12
2155	B 8	3239	J19	7234	K13
2158	C11	3240	L14	7235	N 9
2160	C 7	3241	J12	7335	C23
2161	C 7	3242	L13	7337	C24
2162	C 8	3250	K21	7338	B25
2171	C12	3265	H15	7350	H 3
2172	C13	3270	M17	7380	D26
2176	C14	3275	M19	7400	D14
2177	C15	3276	M19	7402	E14
2180	F11	3335	A23	7404	G14
2181	F12	3336	B23	7406	C16
2185	F 8	3337	C23	7408	D20
2187	F 8	3338	A24	7410	K24
2189	F 9	3340	C24	7466	C26
2196	G11	3341	F 2	7610	J11
2197	H13	3345	G 2	7630	M12
2201	H 7	3353	G 2	7755	K15
2202	H 9	3354	H 2	9045	E 2
2211	I 7	3376	I27	9404	G13
2212	I 9	3377	I27		
2220	G10	3378	H27		
2222	G10	3390	D27		
2227	H16	3391	D28		
2230	K15	3394	F27		
2232	K17	3395	F28		
2235	J18	3398	G27		
2238	K19	3399	H28		
2239	K20	3404	D15		
2250	L20	3405	E15		
2251	L21	3410	F15		
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2260	M16	3412	G15		
2270	M17	3414	G15		
2340	F 2	3416	G13		
2345	G 2	3434	E19		
2350	I 2	3436	F19		
2351	I 3	3437	E19		
2380	I26	3438	C19		
2381	D25	3440	I16		
2382	I26	3441	I17		
2383	F25	3442	I17		
2384	H26	3444	J23		
2385	H25	3446	J23		
2390	C27	3448	I23		
2400	C17	3448	E24		
2402	C16	3450	H24		
2404	E15	3452	H24		
2405	E15	3454	H24		
2409	F15	3460	A27		
2410	F15	3462	L24		
2413	H12	3463	H24		
2414	G15	3464	K25		
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2432	C18	3471	K14		
2434	C16	3472	E24		
2438	B19	3473	L12		
2439	B18	3600	M 3		
2440	C19	3601	N 3		
2441	C18	3602	N 5		
2442	I17	3603	N 5		
2446	C21	3604	N 4		
2448	C22	3605	M 2		
2449	N23	3610	M 7		
2450	L24	3611	M 6		
2455	L25	3612	N 8		
2459	N23	3613	N 7		
2466	N22	3614	N 6		
2470	C22	3615	H11		
2604	N 4	3616	M10		
2614	N 5	3617	N10		
2615	M 9	3618	J 8		
2616	M10	3619	J 9		
2618	K 7	3620	K11		
2619	K 6	3621	M 8		
2620	K11	3622	K12		
2621	N 3	3624	L13		
2622	N 2	3625	M 6		
2623	N 8	3630	N12		
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2625	G13	3632	N11		
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3156	B 9	4033	B17		
3157	B12	4410	M23		
3158	B11	4415	G12		
3170	A12	4634	M 7		
3175	A15	5118	D 5		
3195	G11	5155	A 8		
3196	H14	5157	A10		
3200	H 7	5170	A13		
3201	H 7	5175	A14		
3202	G 9	5190	G 8		
3211	I 7	5400	B17		
3212	I 9	5402	B16		
3214	M20	5403	G12		
3220	G10	5406	C21		
3221	G10	5408	C22		

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



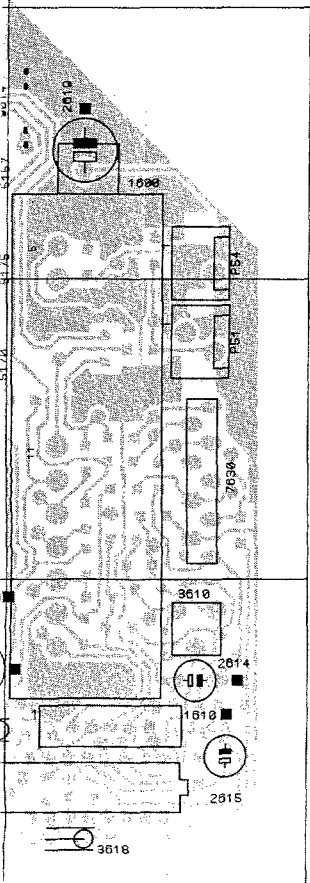
CHASSIS FL1.6
 C126532055/999, JREF
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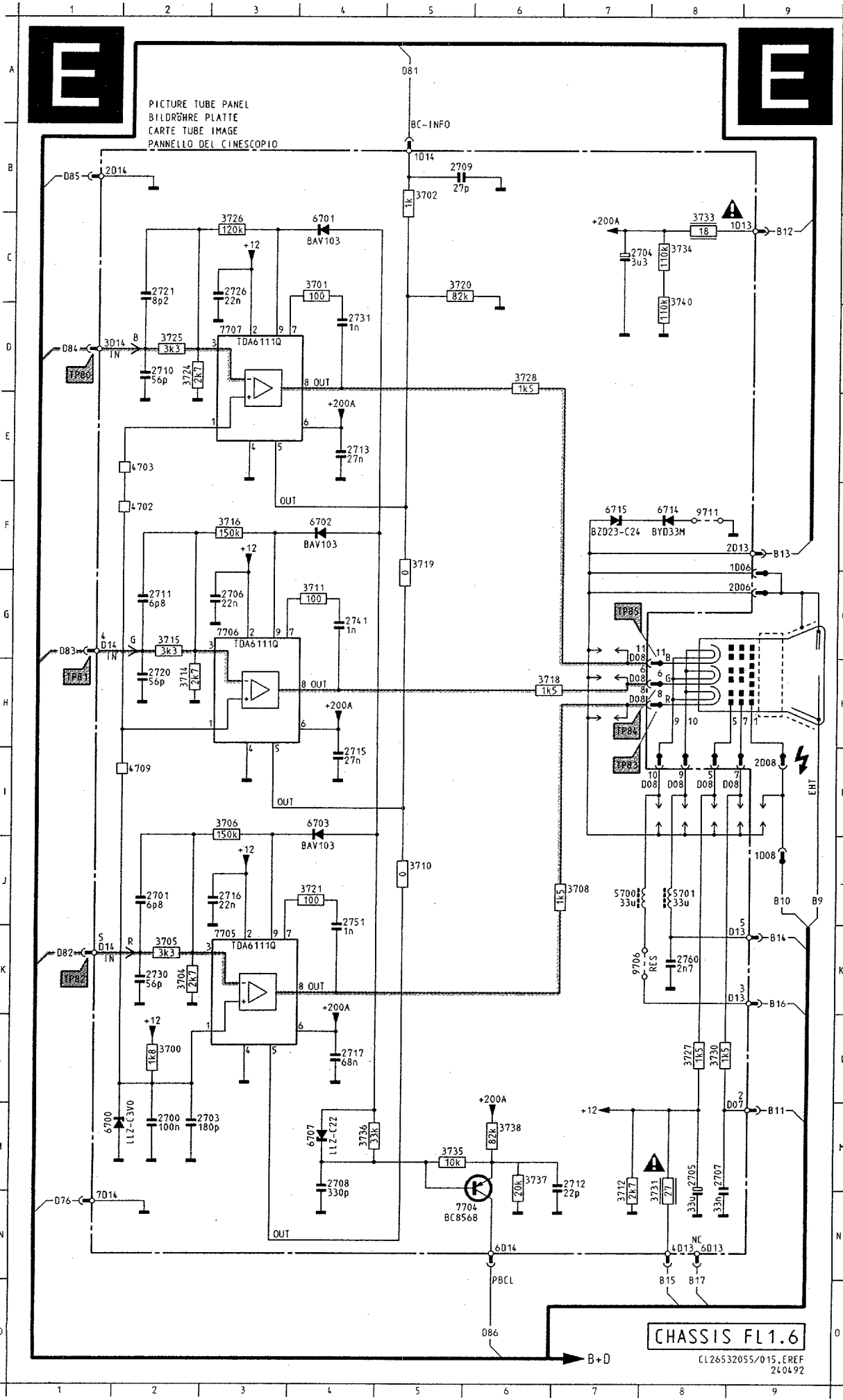


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P54 A5	2439 A2	3338 C1	3618 C5	6464 C2
P56 B1	2440 A2	3340 C1	3619 C5	6471 B1
P57 A1	2441 A2	3341 C1	3620 C5	7103 B5
1155 A4	2442 B3	3345 C4	3621 C5	7105 C4
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1500 B2	2447 B2	3376 A1	3625 B5	7200 B4
1600 B5	2448 B2	3377 B1	3626 B5	7210 B4
1610 C5	2449 C2	3378 B1	3630 B5	7233 C4
2103 B4	2450 B2	3380 A1	3631 B5	7234 C4
2105 C4	2451 B2	3381 A1	3632 B5	7235 C4
2118 C4	2454 B2	3382 A1	3633 A2	7330 B1
2119 C4	2455 B2	3383 A1	3634 A2	7335 C2
2120 C4	2459 C2	3384 A1	3635 C4	7337 C1
2125 A3	2466 C2	3385 A1	3636 B5	7338 C1
2155 A4	2470 A1	3386 A1	3637 C4	7350 B4
2158 A4	2604 C4	3387 A1	3638 C4	7380 B1
2160 B3	2614 C5	3388 A1	3997 B3	7381 A1
2161 B3	2615 C5	3390 B1	4001 C4	7385 A1
2162 A3	2616 C5	3391 B1	4002 B1	7387 A1
2171 A4	2618 C5	3394 B1	4003 B2	7400 A2
2172 A4	2619 A5	3395 B1	4005 B4	7402 A2
2176 A4	2620 C5	3398 B1	4007 B4	7404 A2
2177 A4	2621 B5	3399 B1	4008 C1	7406 B2
2180 A4	2622 A5	3404 A3	4009 A3	7408 B2
2181 A4	2623 C5	3405 A2	4011 C4	7410 C2
2185 B4	2624 A5	3406 B2	4012 C2	7466 C1
2187 B4	2625 A2	3407 B2	4013 A3	7470 C1
2189 B4	2627 C4	3410 A2	4014 B2	7471 C1
2196 B4	3100 B4	3411 A2	4015 B2	7472 C1
2197 A3	3103 B4	3412 A2	4016 C5	7473 C1
2201 B4	3104 C4	3413 A2	4017 A4	7610 C5
2202 B4	3105 B4	3414 A2	4018 B4	7630 B5
2211 B4	3106 B4	3416 A2	4019 B4	7755 C3
2212 B4	3107 B4	3420 C1	4020 C4	9001 C1
2220 B3	3108 B4	3434 A2	4021 B4	9002 B4
2222 B4	3155 A3	3435 A2	4022 C1	9003 A4
2227 B2	3156 A4	3436 B2	4023 A1	9004 A4
2230 C3	3157 A4	3437 B2	4024 C2	9007 B4
2232 C3	3158 A4	3438 A2	4025 C2	9010 C2
2234 C3	3170 B4	3440 B3	4026 C3	9011 C3
2235 C3	3175 A4	3441 B3	4027 C2	9012 C2
2238 B3	3195 B3	3442 B3	4028 C3	9013 C2
2239 C3	3196 B3	3444 B3	4029 C4	9014 A5
2250 B3	3200 B4	3446 B3	4046 A3	9015 A2
2251 C3	3201 B4	3448 B2	4047 A1	9016 A2
2255 C3	3202 B4	3450 B2	4048 A3	9017 A3
2260 B3	3211 B4	3452 B2	4049 B1	9018 A3
2270 B3	3212 B4	3454 B2	4300 C1	9020 C1
2330 C2	3214 C3	3460 C1	4402 C2	9024 B2
2340 C1	3220 A3	3462 B2	4403 C2	9025 A2
2345 C3	3221 A3	3463 C2	4404 C2	9026 A2
2350 B4	3222 B4	3464 C2	4410 C2	9027 A1
2351 B4	3227 B3	3465 B1	4411 C2	9028 A1
2380 B1	3228 B2	3467 C1	4415 A3	9029 B1
2381 B1	3231 C3	3470 C3	4417 C2	9030 A1
2382 B1	3232 C3	3471 C3	4418 C2	9031 B1
2383 B1	3233 C4	3472 B3	4419 C2	9032 B2
2384 B1	3234 C4	3473 C4	4420 C2	9033 B1
2385 B1	3235 C3	3474 B1	4421 C2	9034 B1
2390 C1	3236 C3	3475 B1	4631 B5	9035 B1
2391 A1	3237 C4	3476 B1	4632 B5	9036 B1
2395 A1	3238 B3	3477 B1	4633 A2	9039 A1
2397 A1	3239 B3	3480 B2	4634 C5	9040 B4
2399 C3	3240 C3	3600 B5	5118 C4	9041 C2
2400 A2	3241 C5	3601 B5	5155 A3	9042 B1
2402 A3	3242 C3	3602 B5	5157 A4	9046 A4
2404 A3	3250 B3	3603 B5	5170 B4	9048 C2
2405 A2	3265 C3	3604 C4	5175 B4	9049 B2
2409 A2	3270 C3	3605 B5	5190 B4	9050 B3
2410 A3	3275 C3	3610 C5	5400 A2	9051 B3
2413 A3	3276 C3	3611 B5	5402 A3	9404 A3
2414 A2	3330 B2	3612 B5	5403 A3	
2415 A2	3331 C1	3613 C5	5406 B1	
2430 A2	3332 B1	3614 C5	5408 B1	

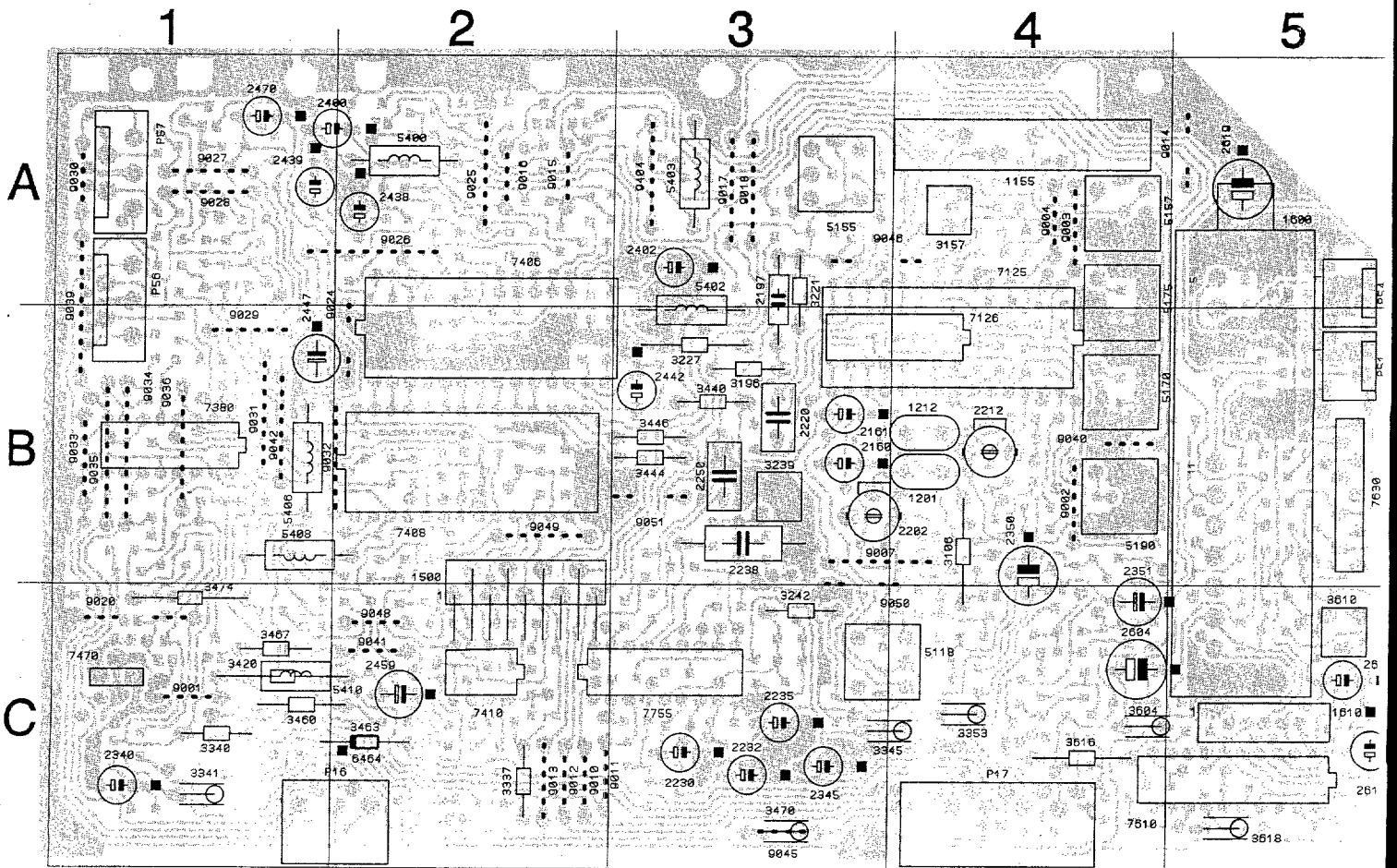
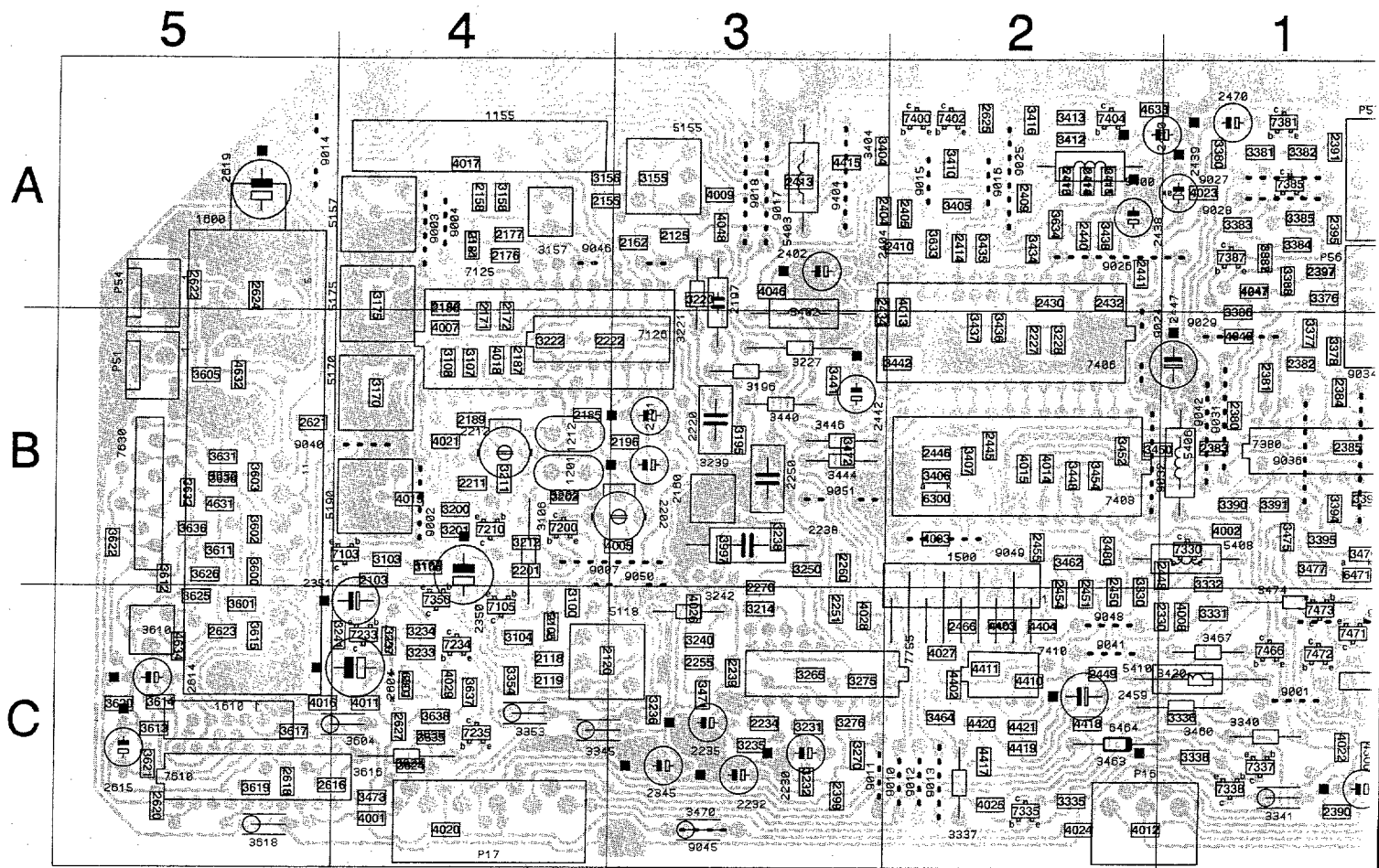
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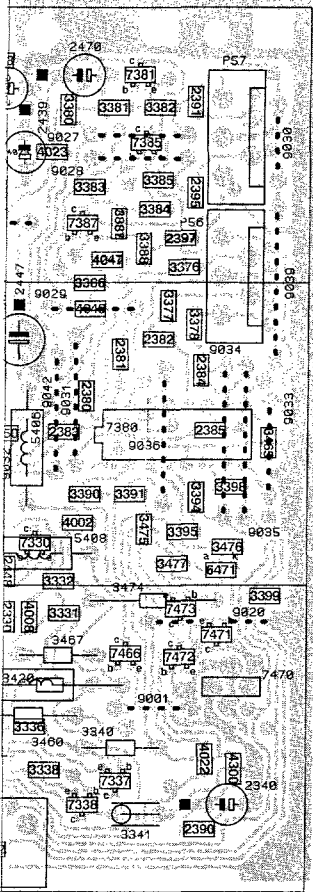
6.31 CHASSIS FL1.6 Platine TRC



- 2700 M 2
- 2701 J 2
- 2703 M 2
- 2704 C 7
- 2705 M 8
- 2706 G 3
- 2707 M 8
- 2708 M 4
- 2709 B 5
- 2710 D 2
- 2711 G 2
- 2712 M 7
- 2713 E 4
- 2715 L 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 K 8
- 3700 L 2
- 3701 C 4
- 3702 B 5
- 3704 K 2
- 3705 K 3
- 3706 I 3
- 3708 J 7
- 3710 J 5
- 3711 G 4
- 3712 M 7
- 3714 H 2
- 3715 G 2
- 3716 F 3
- 3718 H 6
- 3719 F 5
- 3720 C 5
- 3721 J 4
- 3724 D 2
- 3726 C 3
- 3727 L 8
- 3728 D 6
- 3730 L 8
- 3731 M 8
- 3733 C 8
- 3734 C 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 J 7
- 5701 J 8
- 6700 M 1
- 6701 C 4
- 6702 F 4
- 6703 I 4
- 6707 M 4
- 6714 F 8
- 6715 F 7
- 7704 N 6
- 7705 K 3
- 7706 G 3
- 7707 D 3
- 9706 K 7
- 9711 F 8

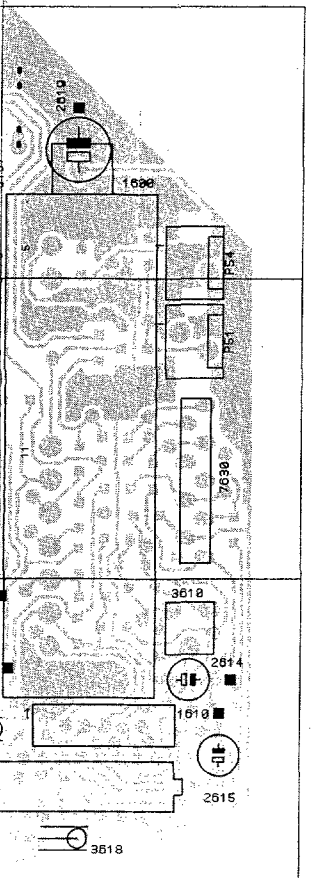


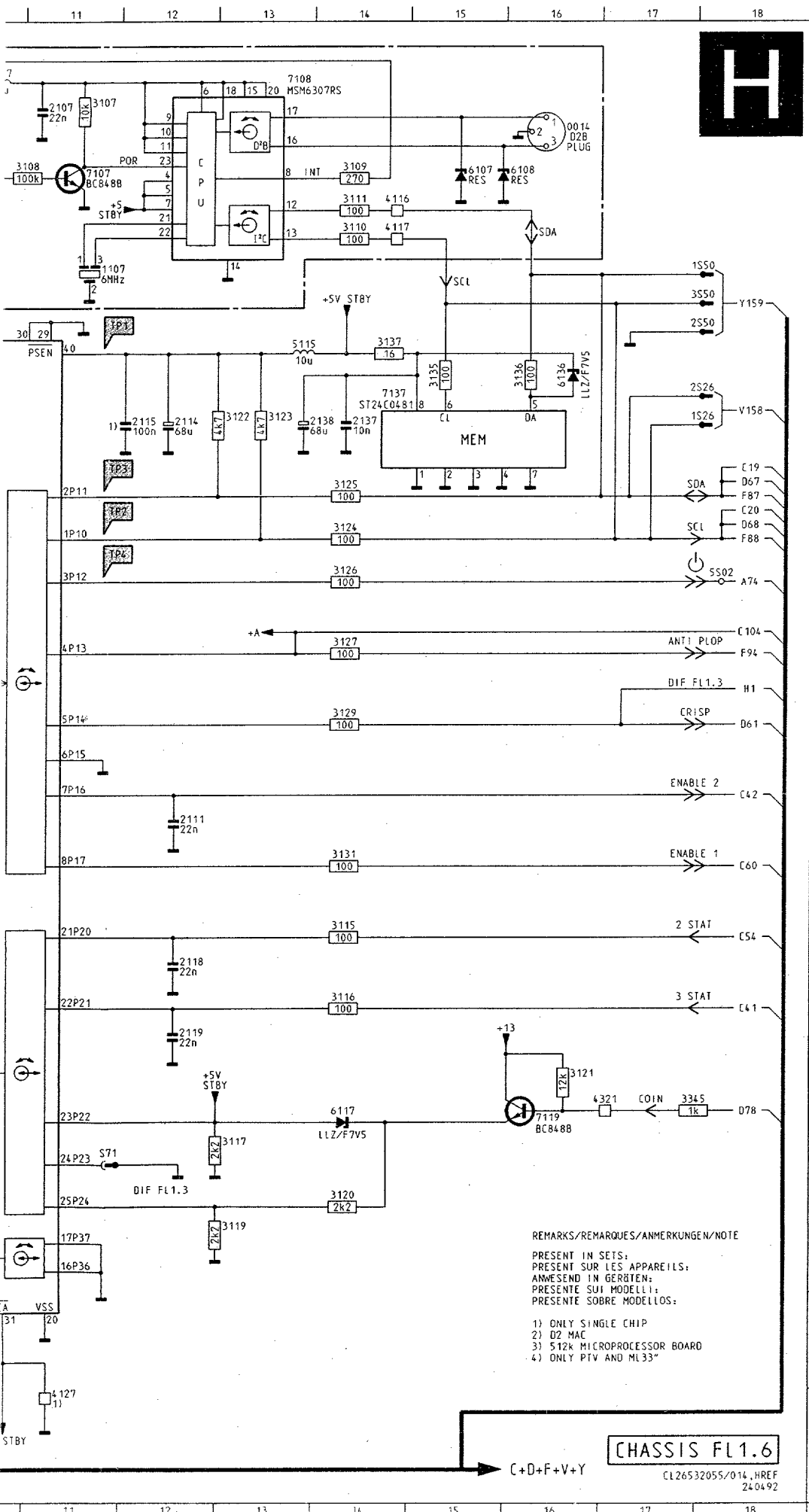
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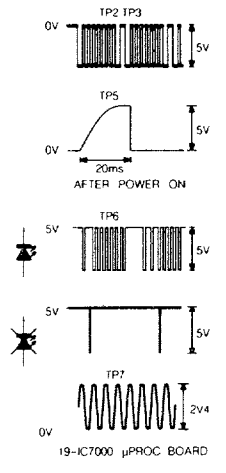
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P17 C4	2434 A3	3336 C1	3616 C4	6300 B2
P51 B5	2438 A2	3337 C2	3617 C5	6301 C4
P54 A5	2439 A2	3338 C1	3618 C5	6464 C2
P56 B1	2440 A2	3340 C1	3619 C5	6471 B1
P57 A1	2441 A2	3341 C1	3620 C5	7103 B5
1155 A4	2442 B3	3345 C4	3621 C5	7105 C4
1201 B4	2445 B2	3353 C4	3622 B5	7125 A4
1212 B4	2446 B2	3354 C4	3624 C4	7126 A4
1500 B2	2447 B2	3376 A1	3625 B5	7200 B4
1600 B5	2448 B2	3377 B1	3626 B5	7210 B4
1610 C5	2449 C2	3378 B1	3630 B5	7233 C4
2103 B4	2450 B2	3380 A1	3631 B5	7234 C4
2105 C4	2451 B2	3381 A1	3632 B5	7235 C4
2118 C4	2454 B2	3382 A1	3633 A2	7330 B1
2119 C4	2455 B2	3383 A1	3634 A2	7335 C2
2120 C4	2459 C2	3384 A1	3635 C4	7337 C1
2125 A3	2466 C2	3385 A1	3636 B5	7338 C1
2155 A4	2470 A1	3386 A1	3637 C4	7350 B4
2158 A4	2604 C4	3387 A1	3638 C4	7380 B1
2160 B3	2614 C5	3388 A1	3997 B3	7381 A1
2161 B3	2615 C5	3390 B1	4001 C4	7385 A1
2162 A3	2616 C5	3391 B1	4002 B1	7387 A1
2171 A4	2618 C5	3394 B1	4003 B2	7400 A2
2172 A4	2619 A5	3395 B1	4005 B4	7402 A2
2176 A4	2620 C5	3398 B1	4007 B4	7404 A2
2177 A4	2621 B5	3399 B1	4008 C1	7406 B2
2180 A4	2622 A5	3404 A3	4009 A3	7408 B2
2181 A4	2623 C5	3405 A2	4011 C4	7410 C2
2185 B4	2624 A5	3406 B2	4012 C2	7466 C1
2187 B4	2625 A2	3407 B2	4013 A3	7470 C1
2189 B4	2627 C4	3410 A2	4014 B2	7471 C1
2196 B4	3100 B4	3411 A2	4015 B2	7472 C1
2197 A3	3103 B4	3412 A2	4016 C5	7473 C1
2201 B4	3104 C4	3413 A2	4017 A4	7610 C5
2202 B4	3105 B4	3414 A2	4018 B4	7630 B5
2211 B4	3106 B4	3416 A2	4019 B4	7755 C3
2212 B4	3107 B4	3420 C1	4020 C4	9001 C1
2220 B3	3108 B4	3434 A2	4021 B4	9002 B4
2222 B4	3155 A3	3435 A2	4022 C1	9003 A4
2227 B2	3156 A4	3436 B2	4023 A1	9004 A4
2230 C3	3157 A4	3437 B2	4024 C2	9007 B4
2232 C3	3158 A4	3438 A2	4025 C2	9010 C2
2234 C3	3170 B4	3440 B3	4026 C3	9011 C3
2235 C3	3175 A4	3441 B3	4027 C2	9012 C2
2238 B3	3195 B3	3442 B3	4028 C3	9013 C2
2239 C3	3196 B3	3444 B3	4029 C4	9014 A5
2250 B3	3200 B4	3446 B3	4046 A3	9015 A2
2251 C3	3201 B4	3448 B2	4047 A1	9016 A2
2255 C3	3202 B4	3450 B2	4048 A3	9017 A3
2260 B3	3211 B4	3452 B2	4049 B1	9018 A3
2270 B3	3212 B4	3454 B2	4300 C1	9020 C1
2330 C2	3214 C3	3460 C1	4402 C2	9024 B2
2340 C1	3220 A3	3462 B2	4403 C2	9025 A2
2345 C3	3221 A3	3463 C2	4404 C2	9026 A2
2350 B4	3222 B4	3464 C2	4410 C2	9027 A1
2351 B4	3227 B3	3465 B1	4411 C2	9028 A1
2380 B1	3228 B2	3467 C1	4415 A3	9029 B1
2381 B1	3231 C3	3470 C3	4417 C2	9030 A1
2382 B1	3232 C3	3471 C3	4418 C2	9031 B1
2383 B1	3233 C4	3472 B3	4419 C2	9032 B2
2384 B1	3234 C4	3473 C4	4420 C2	9033 B1
2385 B1	3235 C3	3474 B1	4421 C2	9034 B1
2390 C1	3236 C3	3475 B1	4631 B5	9035 B1
2391 A1	3237 C4	3476 B1	4632 B5	9036 B1
2395 A1	3238 B3	3477 B1	4633 A2	9039 A1
2397 A1	3239 B3	3480 B2	4634 C5	9040 B4
2399 C3	3240 C3	3600 B5	5118 C4	9041 C2
2400 A2	3241 C5	3601 B5	5155 A3	9042 B1
2402 A3	3242 C3	3602 B5	5157 A4	9046 A4
2404 A3	3250 B3	3603 B5	5170 B4	9048 C2
2405 A2	3265 C3	3604 C4	5175 B4	9049 B2
2409 A2	3270 C3	3605 B5	5190 B4	9050 B3
2410 A3	3275 C3	3610 C5	5400 A2	9051 B3
2413 A3	3276 C3	3611 B5	5402 A3	9404 A3
2414 A2	3330 B2	3612 B5	5403 A3	
2415 A2	3331 C1	3613 C5	5406 B1	
2430 A2	3332 B1	3614 C5	5408 B1	

5





0014	A16
1001	A 2
1100	A 3
1107	C11
2100	C 4
2107	A11
2111	I12
2114	D12
2115	D12
2118	J12
2119	K12
2130	K 9
2131	L 1
2132	F 6
2137	D14
2138	D13
3100	A 6
3101	D 8
3103	D 5
3104	E 5
3105	E 5
3107	A11
3108	B11
3109	B14
3110	B14
3111	B14
3115	J14
3116	J14
3117	L13
3119	M13
3120	M14
3121	K16
3122	D13
3123	D13
3124	F14
3125	E14
3126	F14
3127	G14
3128	K 1
3129	H14
3131	I14
3132	F 5
3134	G 5
3135	D15
3136	D16
3137	D14
3138	G 5
3139	G 5
3140	H 8
3141	H 8
3142	I 8
3143	I 8
3144	J 8
3145	J 8
3146	K 8
3148	F 4
3149	F 3
3150	F 2
3157	K 3
3158	K 3
3169	K 3
3345	L17
4116	B14
4117	B14
4127	O11
4203	G 2
4321	L17
5100	B 4
5107	A10
5115	D13
6107	B15
6108	B16
6117	L14
6136	D16
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7108	A13
7119	L16
7130	L 1
7137	D14
8911	M 2
9096	B10
9152	B10



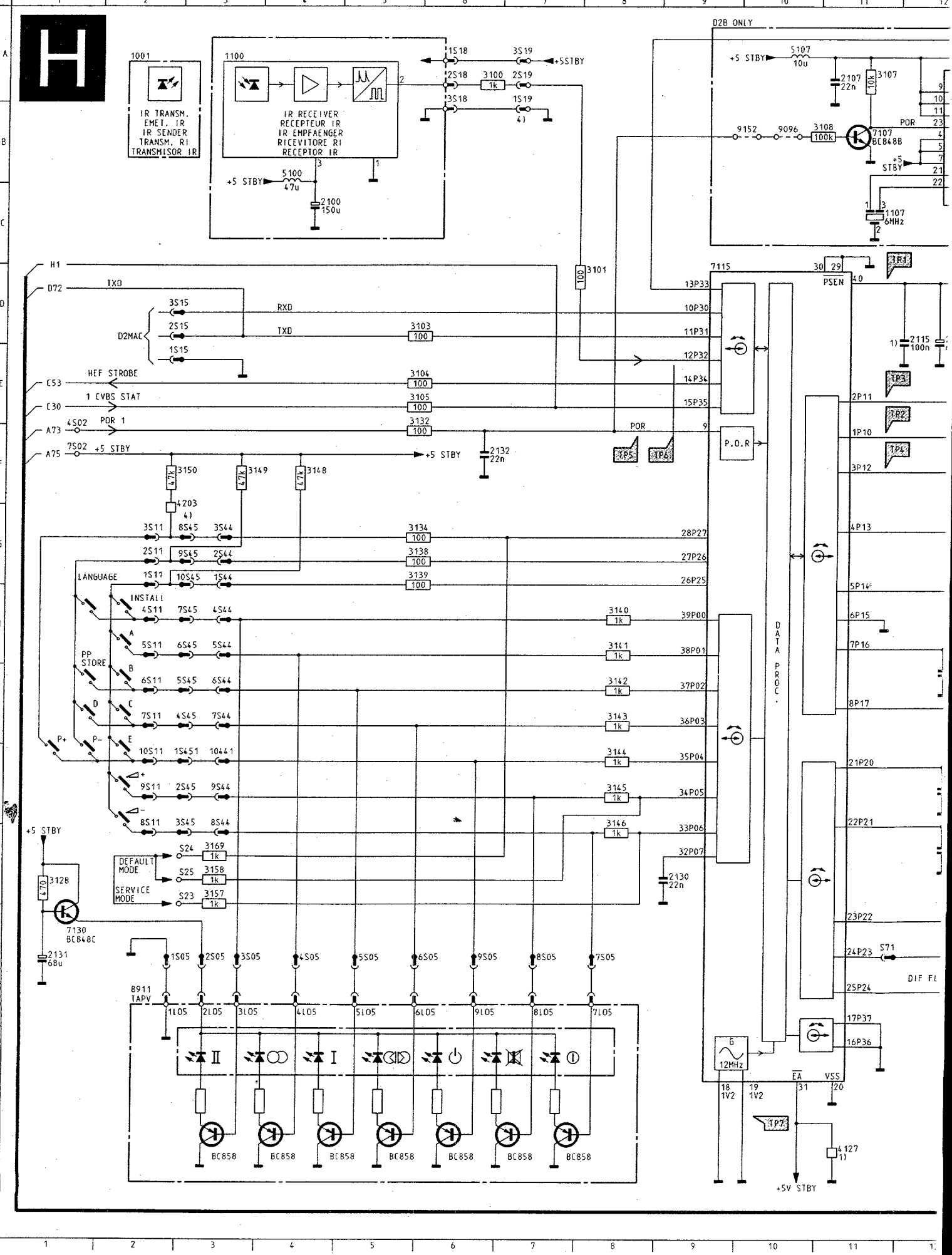
FRS 06956
1 26/113

REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS;
PRESENT SUR LES APPAREILS;
ANWESEND IN GERÄTEN;
PRESENTI SUI MODELLI;
PRESENTI SOBRE MODELLILOS.

- 1) ONLY SINGLE CHIP
- 2) D2 MAC
- 3) 512k MICROPROCESSOR BOARD
- 4) ONLY PTV AND ML33"

CHASSIS FL1.6

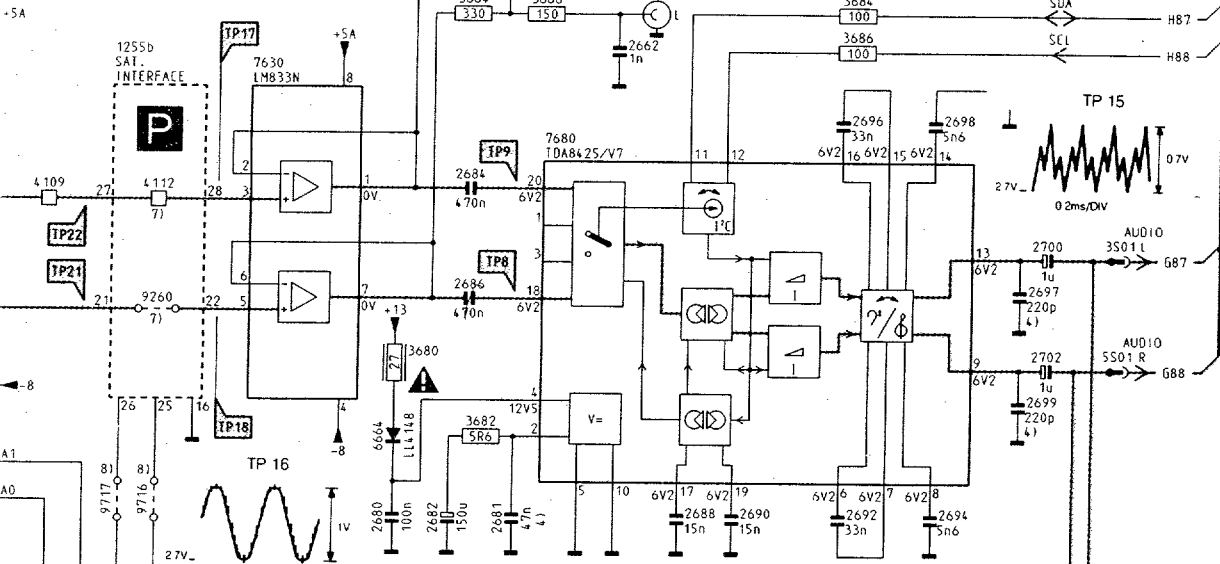
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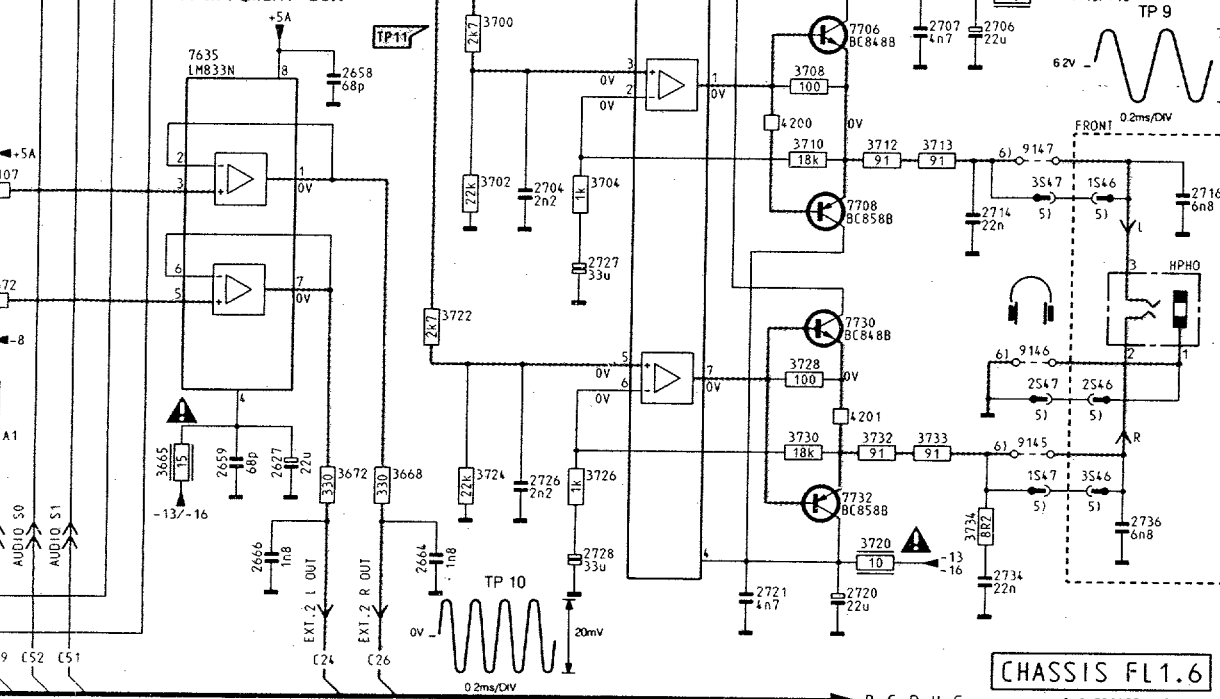
REMARKS/REMARKUES/ANMERKUNGEN/NOTE

- PRESENT IN SETS:
 PRESENTI IN GERÄTEN:
 PRESENTE SUI MODELLI:
 PRESENTE SOBRE MODELOS:
- 1) NO ECO NICAM
 - 2) ONLY 100HZ
 - 3) ONLY AMBSBLATT
 - 4) ONLY 16:9, 33"ML AND PTV
 - 5) NOT FOR 16:9, 33"ML AND PTV
 - 6) NOT FOR SAT BOX
 - 7) ONLY SAT BOX

Source selection audio
 Tonquellenwahl
 Selezione delle sorgenti sonore
 Selección source son



Sound processing
 Ton Prozessor
 Processore del suono
 Traitement son

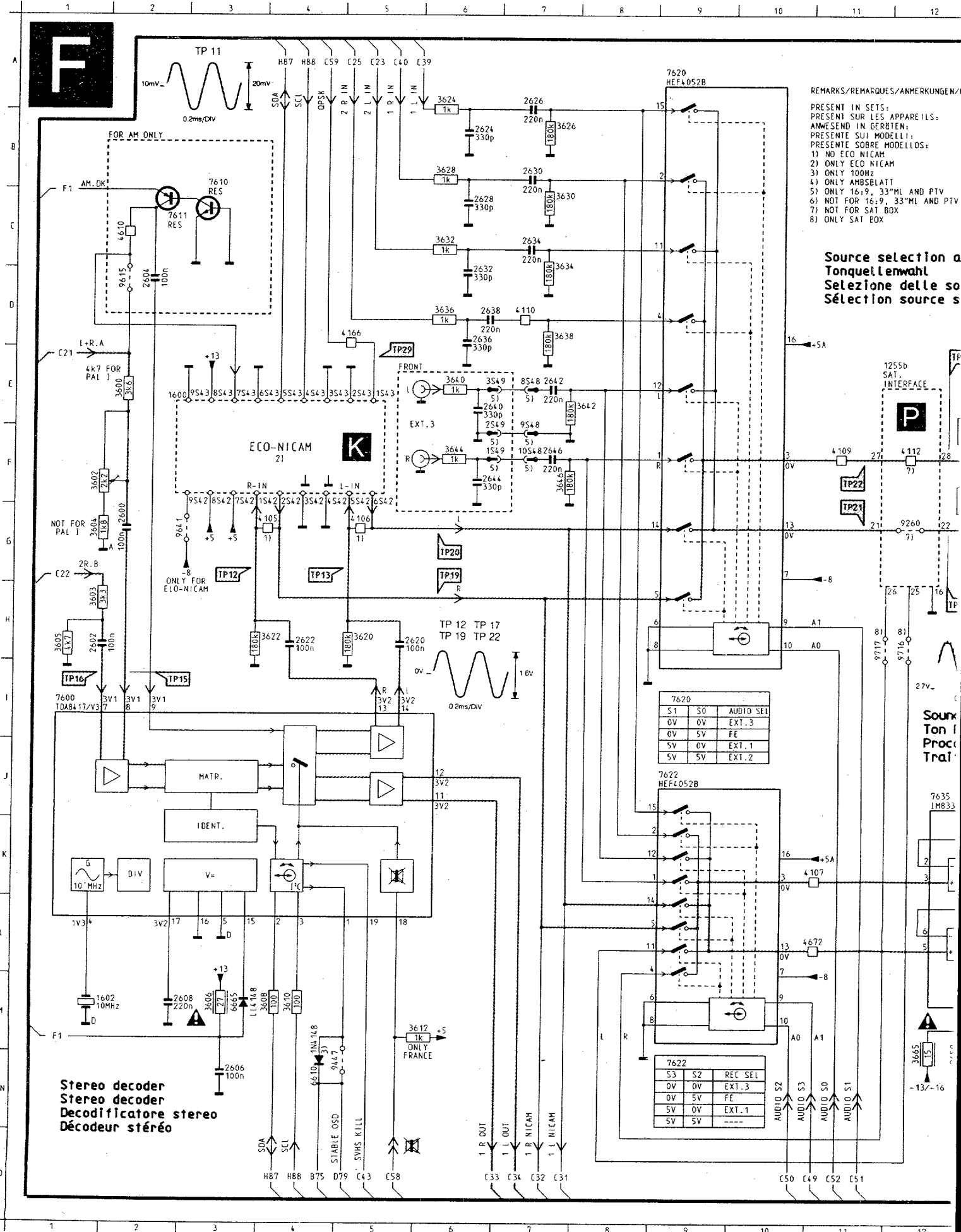


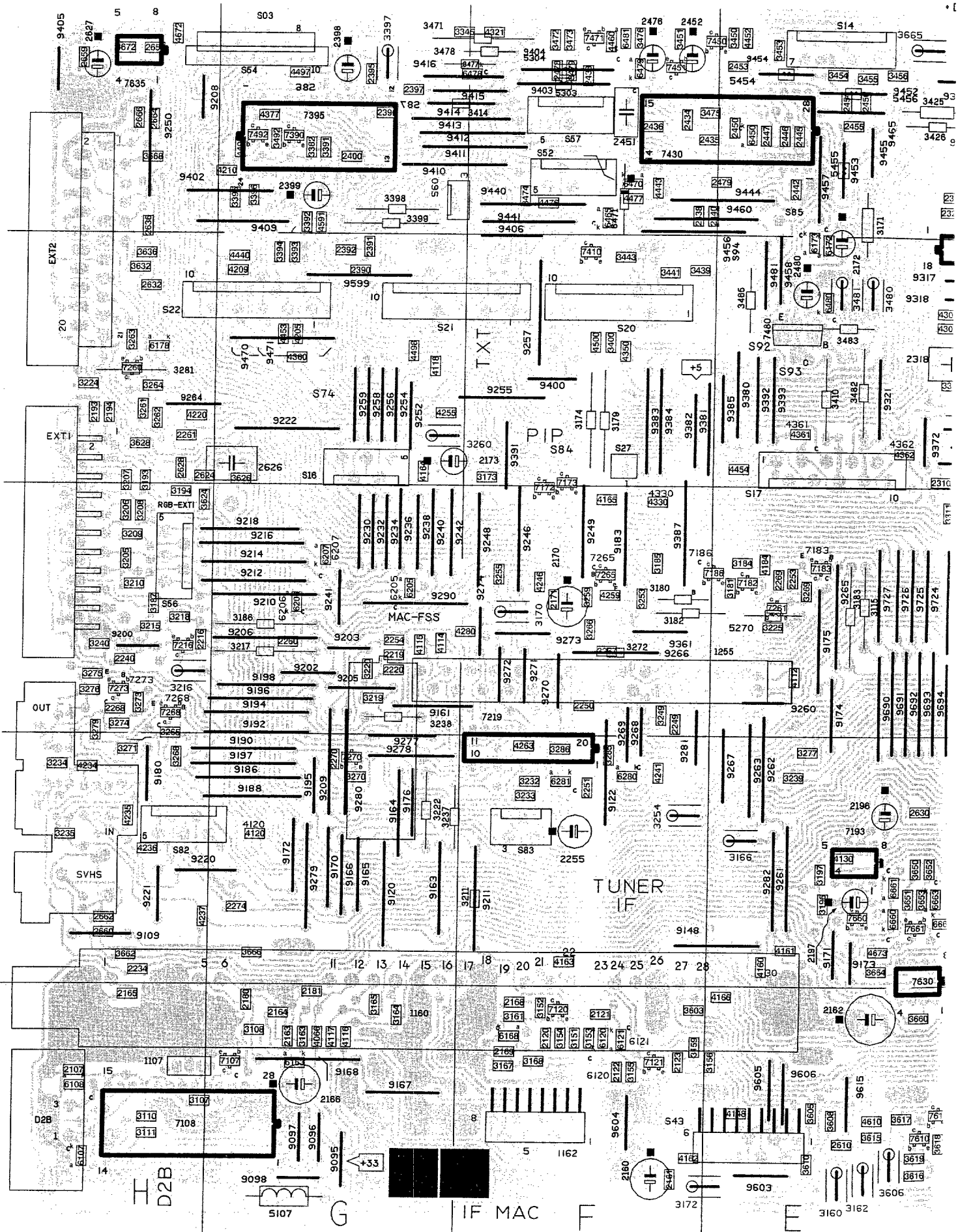
CHASSIS FL1.6

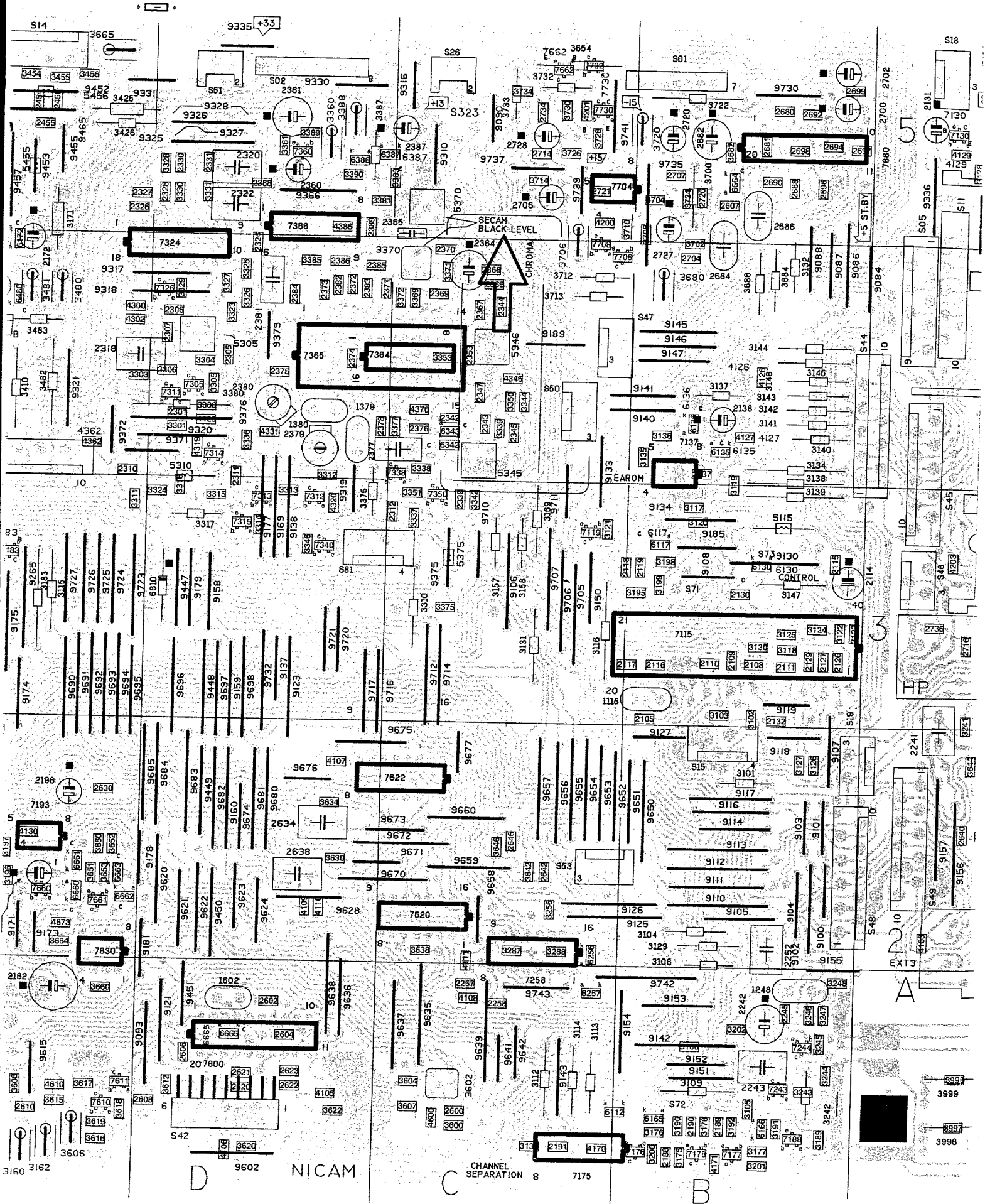
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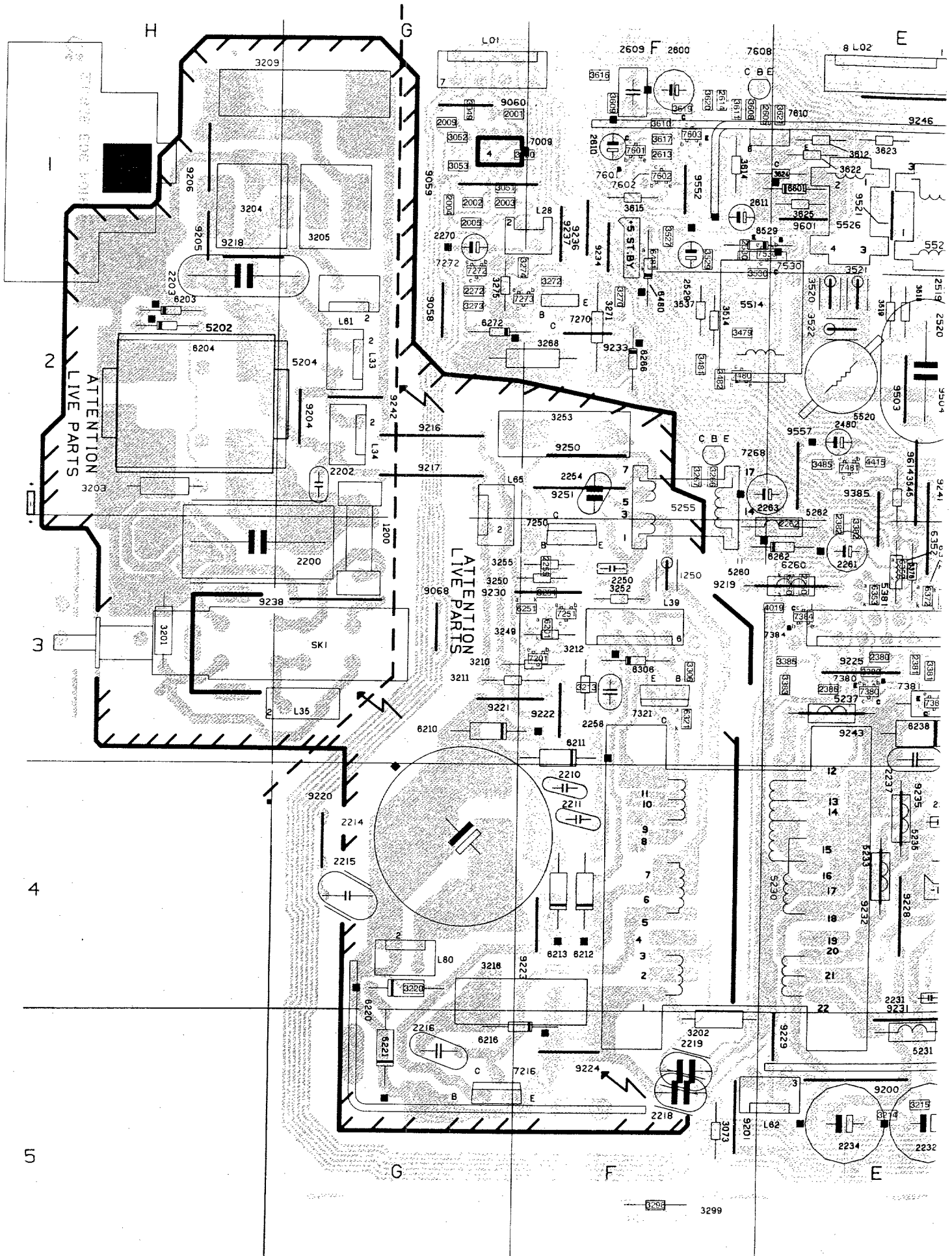
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	1600	E 2	4112	F12
	1602	M 1	4166	D 5
	2600	G 2	4200	K17
	2602	H 1	4201	M17
	2604	D 2	4610	C 2
	2606	N 3	4672	L11
	2608	M 2	4673	C15
	2620	H 5	6610	N 4
	2622	H 4	6660	B16
	2624	B 6	6661	B17
	2626	A 7	6662	D16
	2627	M13	6663	D17
B	2628	C 6	6664	H14
	2630	B 7	6665	M 3
	2632	D 6	7600	I 1
	2634	C 7	7610	B 3
	2636	D 6	7611	C 2
	2638	D 6	7620	A 9
	2640	E 6	7622	J 9
C	2642	E 7	7630	E12
	2644	F 6	7635	J12
	2646	F 7	7660	B16
	2658	J13	7661	C16
	2659	M12	7662	B18
	2660	C16	7680	E15
	2662	E16	7704	I16
	2664	N14	7706	J17
D	2666	N13	7708	K17
	2680	H14	7730	L17
	2681	H15	7732	M17
	2682	H14	9145	M19
	2684	F14	9146	M19
	2686	G14	9147	K19
	2688	H16	9260	G12
E	2690	H16	9447	N 5
	2692	H17	9615	D 2
	2694	H18	9641	G 2
	2696	E17	9716	H12
	2697	G19	9717	H11
F	2700	F19		
	2702	G19		
	2704	K15		
	2706	J18		
	2707	J18		
	2714	K18		
	2716	K20		
	2720	O17		
G	2721	O17		
	2726	M15		
	2727	L15		
	2728	N15		
	2734	N19		
	2736	N20		
	3600	E 2		
	3602	F 1		
H	3603	H 1		
	3604	G 1		
	3605	H 1		
	3606	M 3		
	3608	M 4		
	3610	M 4		
	3612	M 6		
	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	M12		
	3666	D15		
	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	M15		
	3728	M17		
	3730	M17		
	3732	M18		
	3733	M18		
	3734	M18		
	4105	G 4		
	4106	G 5		
	4107	K11		
O	4109	F11		

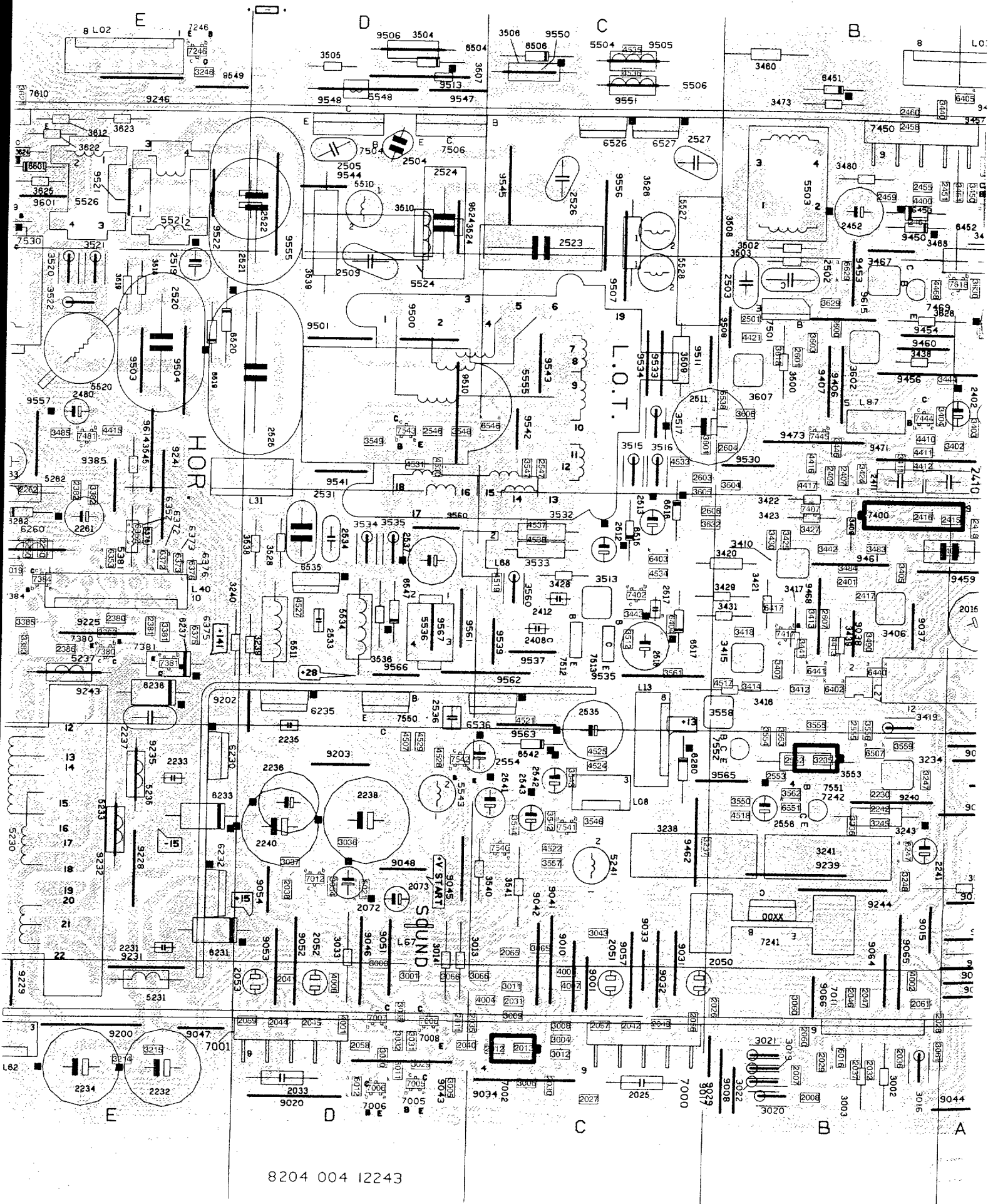
B+C+D+H+G



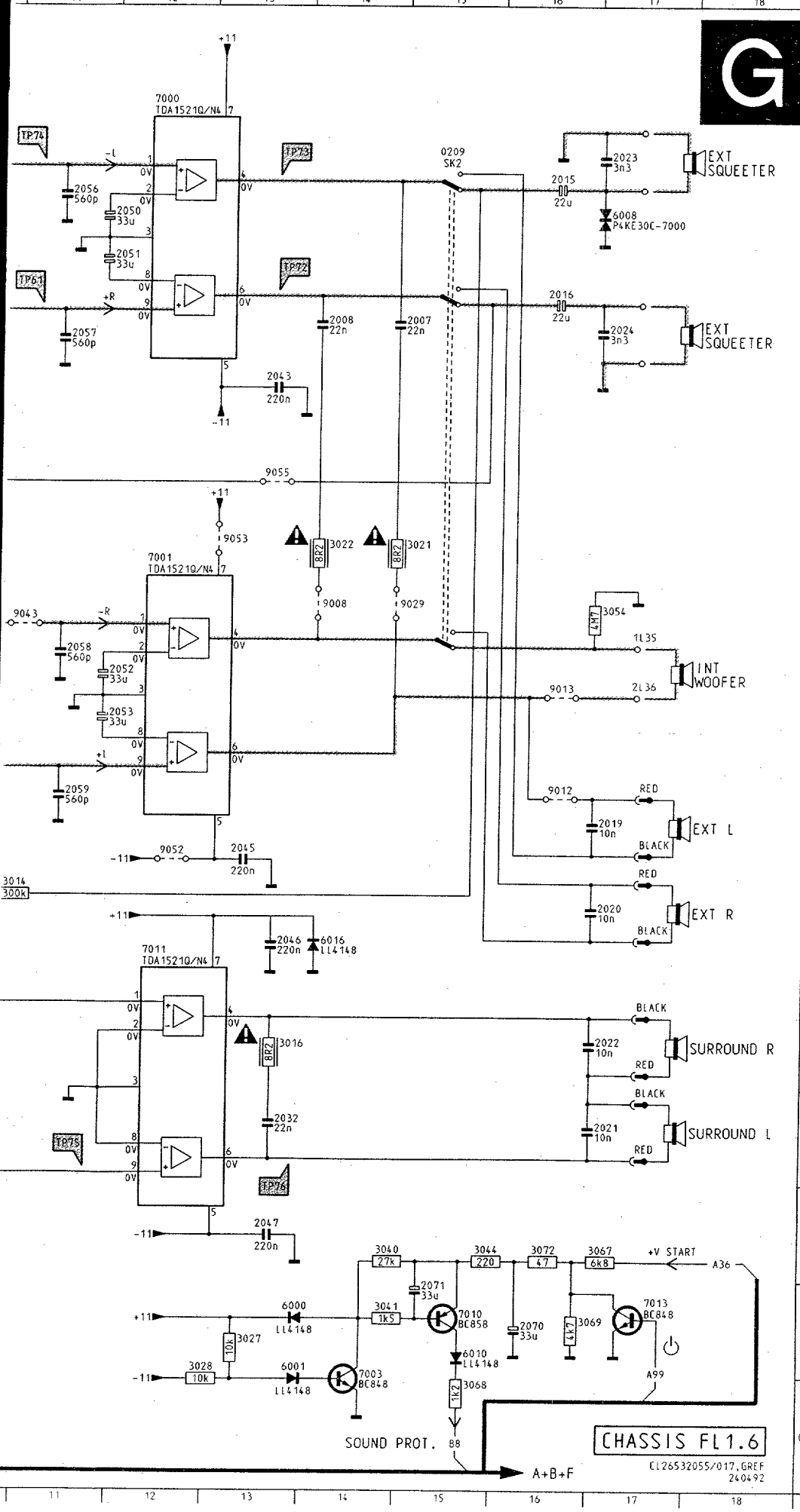




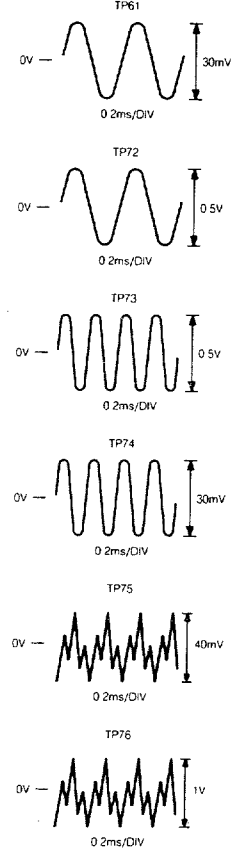




6.42 6.43 CHASSIS FL1.6 Amplificateur Audio



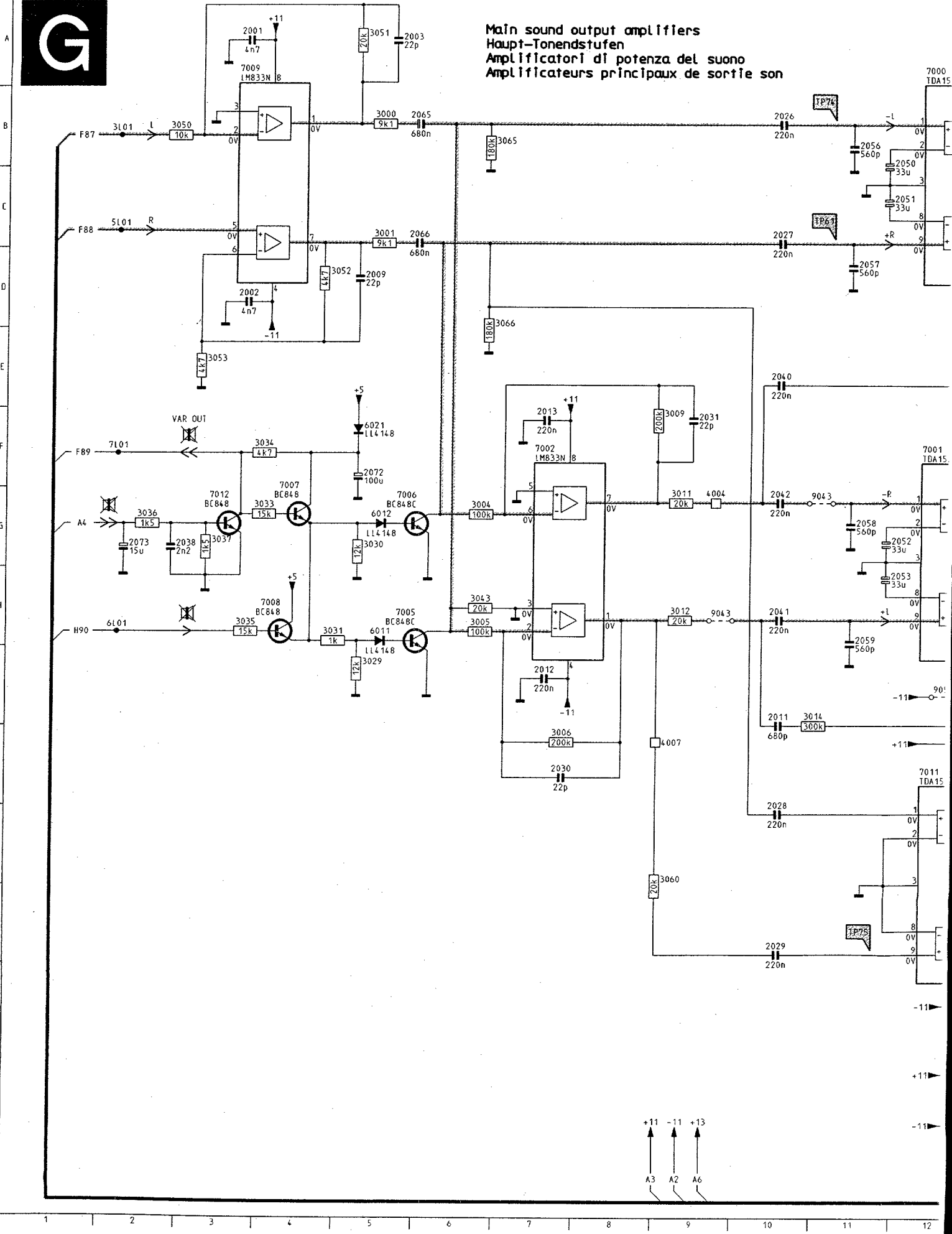
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2002	D 3		
2003	A 5		
2007	D14		
2008	D14		
2009	D 5		
2011	I 10		
2012	I 7		
2013	F 7		
2015	B16		
2016	C16		
2019	I17		
2020	J17		
2021	L17		
2022	K17		
2023	B17		
2024	O17		
2026	B10		
2027	C10		
2028	K10		
2029	L10		
2030	J 7		
2031	F 9		
2032	L13		
2038	G 2		
2040	E10		
2041	H10		
2042	G10		
2043	D13		
2045	I13		
2046	J13		
2047	M13		
2050	B11		
2051	E11		
2052	G11		
2053	H11		
2056	B11		
2057	D11		
2058	G11		
2059	H11		
2065	B 5		
2066	C 5		
2070	N16		
2071	N15		
2072	F 5		
2073	G 2		
3000	B 5		
3001	C 5		
3004	G 6		
3005	H 6		
3006	J 7		
3009	F 9		
3011	G 9		
3012	H 9		
3014	I11		
3016	K13		
3021	F15		
3022	F14		
3027	N13		
3028	N13		
3029	I 5		
3030	G 5		
3031	H 4		
3033	G 4		
3034	F 4		
3035	H 3		
3036	G 2		
3037	G 3		
3040	M14		
3041	N14		
3043	H 6		
3044	M15		
3050	B 2		
3051	A 5		
3052	B 4		
3053	E 3		
3054	F17		
3060	K 9		
3065	B 6		
3066	D 6		
3067	M17		
3068	O15		
3069	N16		
3072	M16		
4004	G 9		
4007	J 9		
6000	N13		
6001	N13		
6008	B17		
6010	M15		
6011	H 5		
6012	G 5		
6016	J14		
6021	F 5		
7000	A12		
7001	F12		
7002	F 7		
7003	O14		
7005	H 5		
7006	G 5		
7007	G 4		
7008	H 4		
7009	A 3		
7010	N15		
7011	J12		
7012	G 3		
7013	N17		
9008	F14		
9012	H16		
9013	G16		
9029	F14		
9043	G11		
9043	H 9		
9052	I12		
9053	F13		

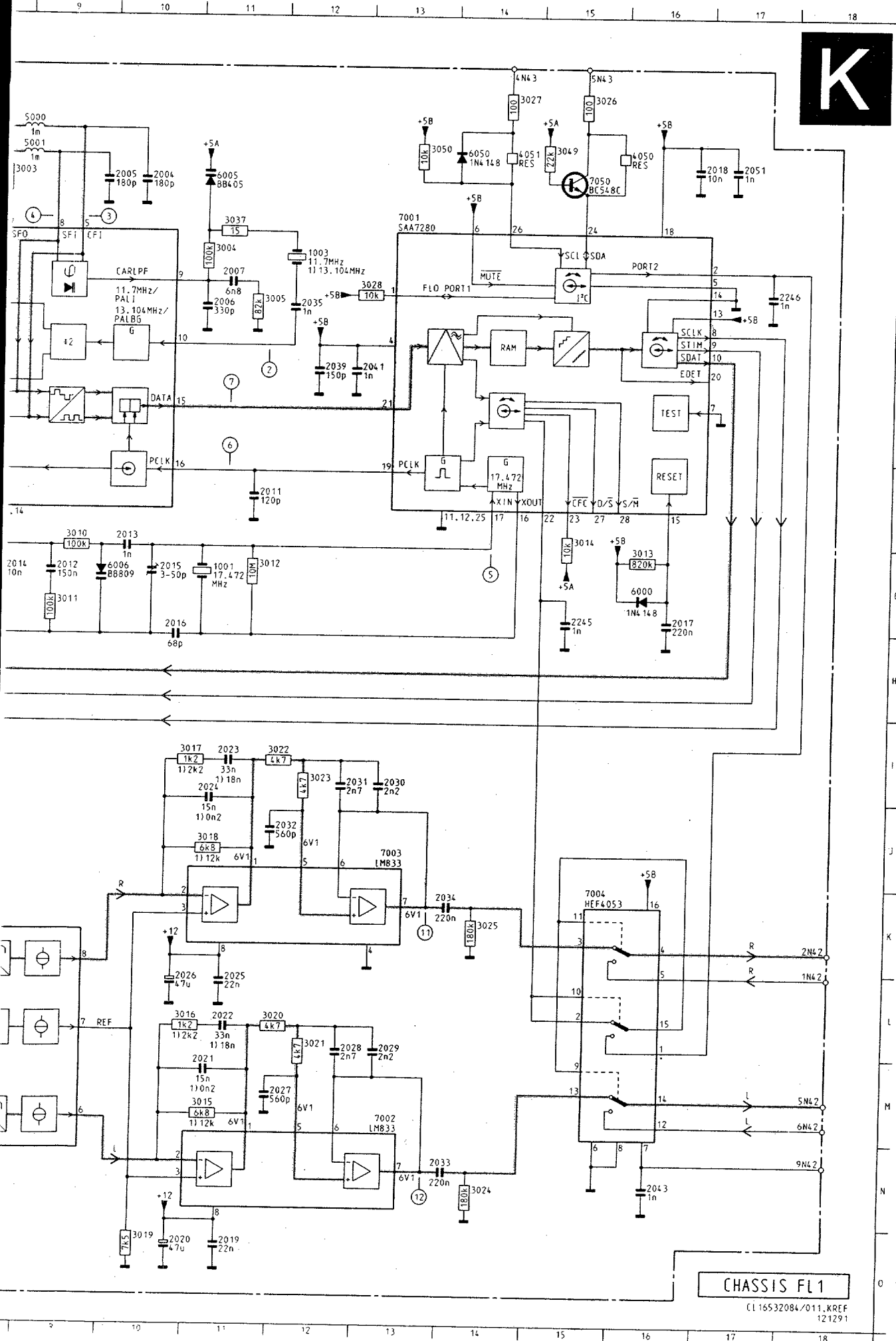
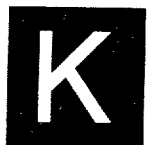


PRS 06962
T-26/113



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



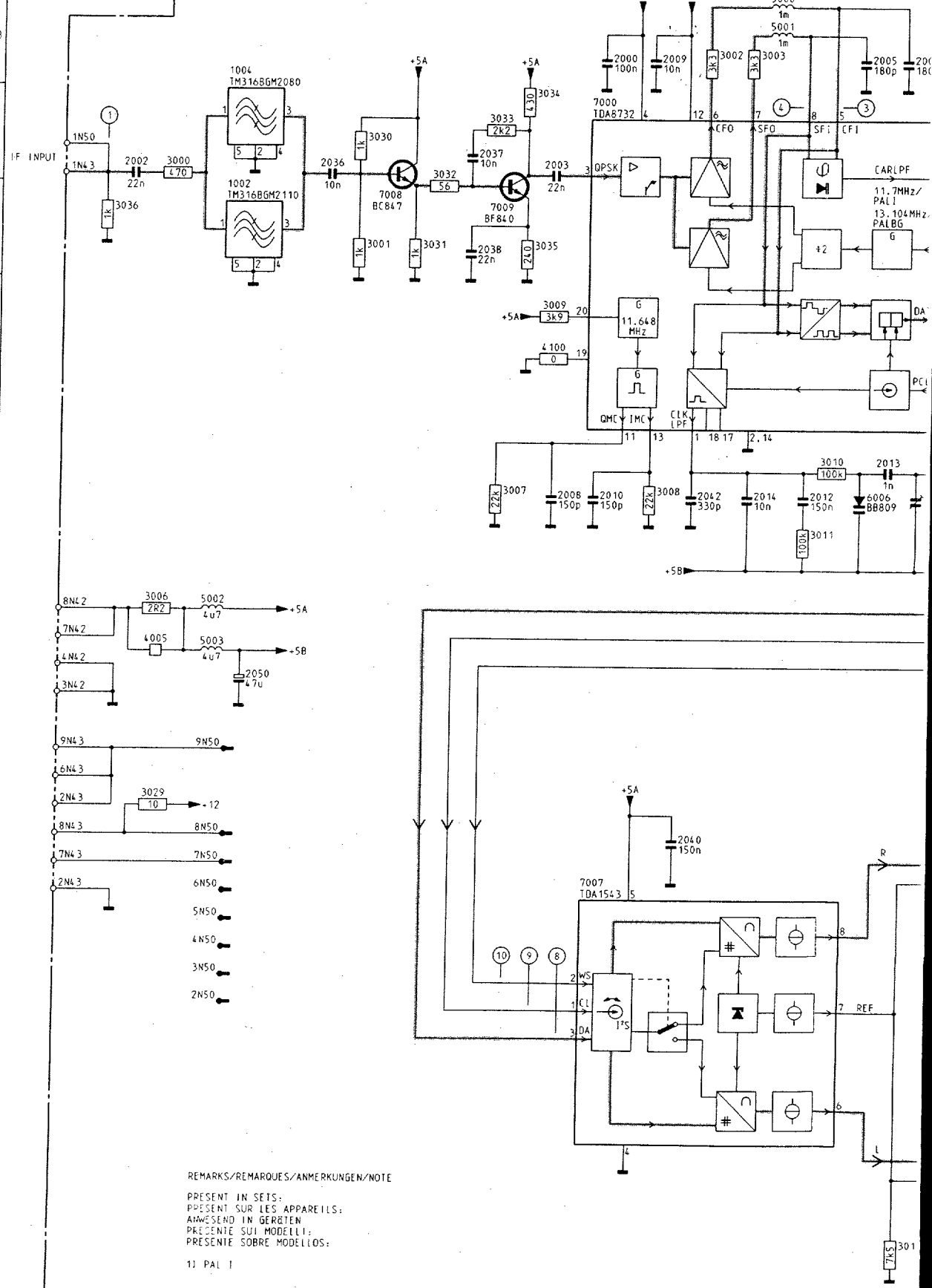
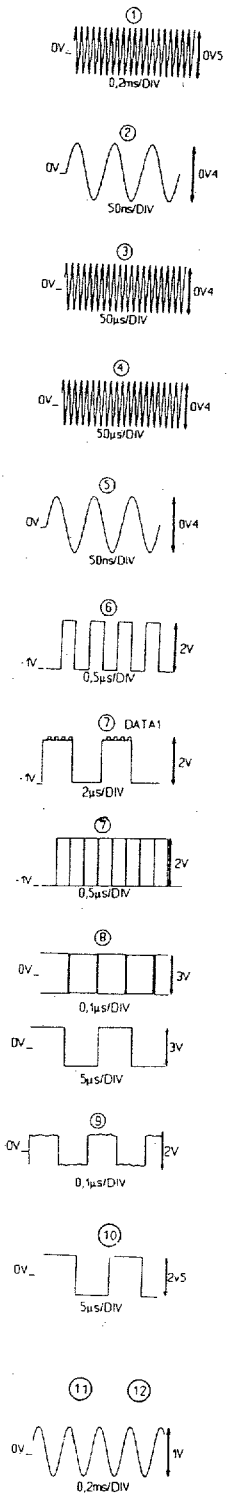


1001	G11
1002	D 3
1003	C 12
1004	B 3
2000	B 7
2002	C 2
2003	C 6
2004	B 10
2005	B 9
2006	D 11
2007	C 11
2008	G 6
2009	B 7
2010	G 7
2011	F 11
2012	G 9
2013	F 10
2014	G 8
2015	G 10
2016	G 10
2017	G 16
2018	B 16
2019	O 11
2020	O 10
2021	M 11
2022	L 11
2023	L 11
2024	L 11
2025	L 11
2026	L 10
2027	M 12
2028	L 12
2029	L 13
2030	L 13
2031	L 12
2032	J 12
2033	N 14
2034	K 14
2035	D 12
2036	C 4
2037	C 5
2038	D 5
2039	D 12
2040	J 8
2041	D 12
2042	G 8
2043	M 16
2050	I 3
2051	B 17
2245	G 15
2246	D 17
3000	C 2
3001	D 4
3002	B 8
3003	B 8
3004	C 11
3005	D 11
3006	H 2
3007	G 6
3008	G 7
3009	E 6
3010	F 9
3011	G 9
3012	G 11
3013	G 16
3014	F 15
3015	M 11
3016	L 10
3017	L 10
3018	J 11
3019	O 10
3020	L 12
3021	L 12
3022	L 12
3023	L 12
3024	N 14
3025	K 14
3026	A 15
3027	A 14
3028	C 13
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	C 11
3049	B 15
3050	B 13
4005	H 2
4050	B 16
4051	B 14
4100	E 6
5000	B 9
5001	B 9
5002	H 3
5003	H 3
6000	G 16
6005	B 11
6006	G 9
6050	B 14
7000	C 7
7001	C 13
7002	M 13
7003	J 13
7004	K 15
7007	K 7
7008	D 5
7009	D 6
7050	B 15

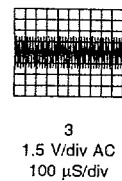
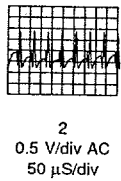
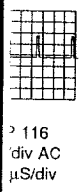
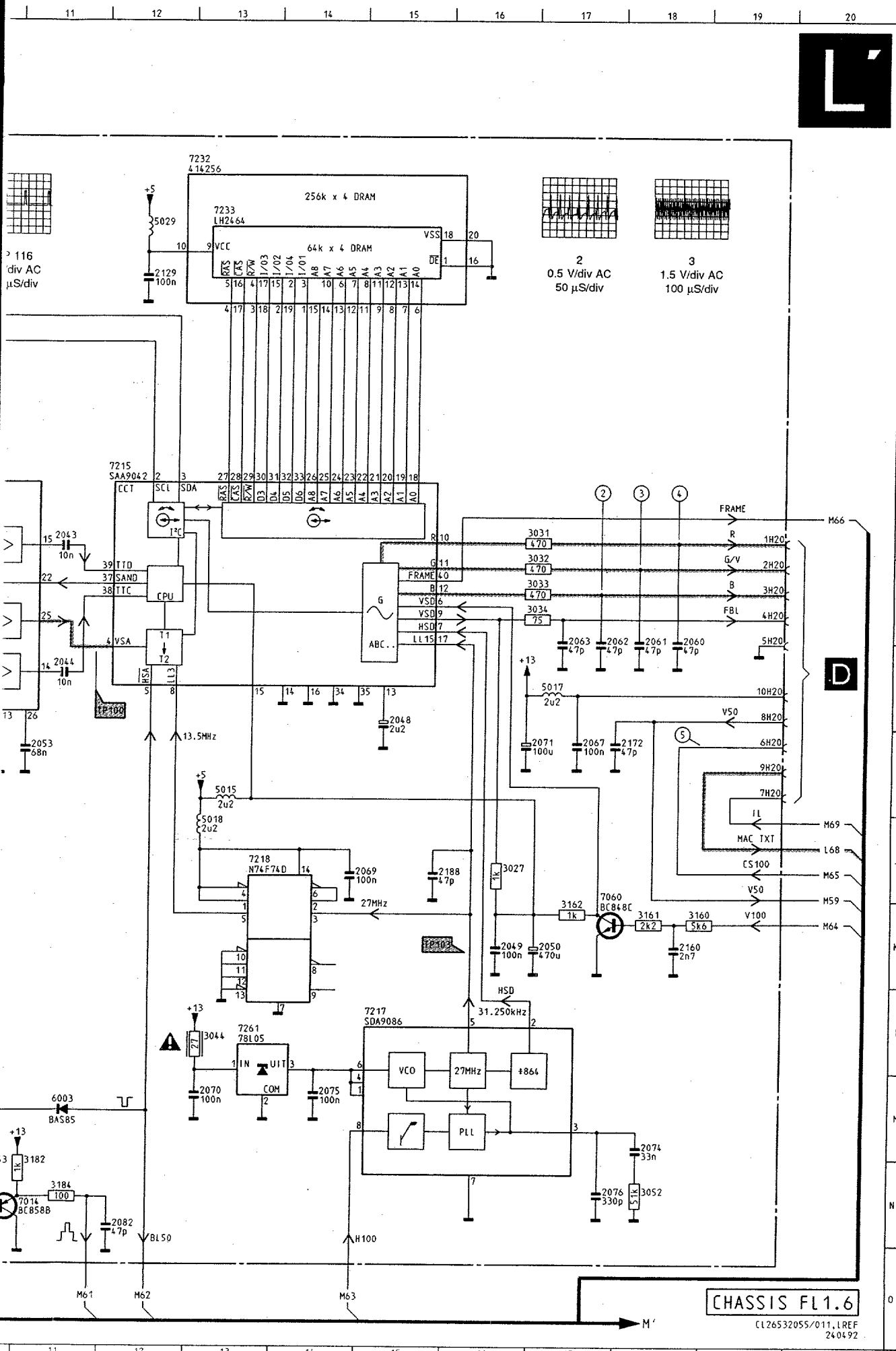
CHASSIS FL1
 CL 16532084/011.KREF
 121291

K

ECO NICAM



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



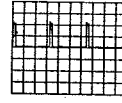
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2039	G 5	7233	C13
2040	G 6	7261	L13
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2042	E 9		
2043	F11		
2044	H11		
2045	H 5		
2046	H 3		
2047	I 9		
2048	H15		
2049	K16		
2050	K17		
2051	I 3		
2052	H 5		
2053	I11		
2054	I 6		
2055	I 7		
2056	I 7		
2057	I 8		
2058	I 8		
2059	I 9		
2060	H18		
2061	H18		
2062	H17		
2063	H17		
2064	N 4		
2065	N 5		
2066	K 8		
2067	I17		
2068	N 4		
2069	J14		
2070	M13		
2071	I16		
2072	M 2		
2073	L 3		
2074	M18		
2075	M14		
2076	N17		
2077	K 4		
2078	K 6		
2079	J 7		
2080	J 4		
2081	K 5		
2082	N12		
2129	C12		
2153	N 9		
2160	K18		
2172	I18		
2184	H 4		
2188	J15		
3019	G 5		
3020	D 8		
3023	E 8		
3024	G 4		
3025	G 4		
3026	H 2		
3027	J16		
3028	H 4		
3029	I 4		
3030	H 5		
3031	F17		
3032	G17		
3033	G17		
3034	G17		
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	L13		
3045	L 3		
3046	N10		
3047	N 6		
3048	K 5		
3049	J 5		
3050	K 5		
3051	J 7		
3052	N18		
3053	M10		
3054	K 7		
3117	M10		
3155	N 4		
3160	K18		
3161	K18		
3162	K17		
3169	I 5		
3170	I 6		
3171	J 4		
3180	N 6		
3182	M11		
3184	N11		
4001	F 4		
5014	I 9		
5015	I13		
5016	H 5		
5017	H17		
5018	J13		
6001	N 9		
6003	M11		
6011	J 5		
7010	I 5		
7011	G 4		
7012	H 4		
7013	M10		
7014	N11		
7060	J17		
7214	F 6		
7215	F12		
7216	K 4		
7217	L15		
7218	J13		

CHASSIS FL1.6

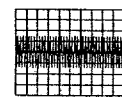
CL26532055/011, LREF 240492



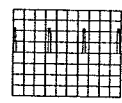
LFR BOX TXT-DECODER
DECODEUR TXT
DECODIFICATORE TELEVIDEO



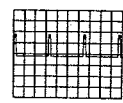
TP 100
2 V/div AC
20 μS/div



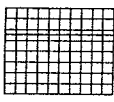
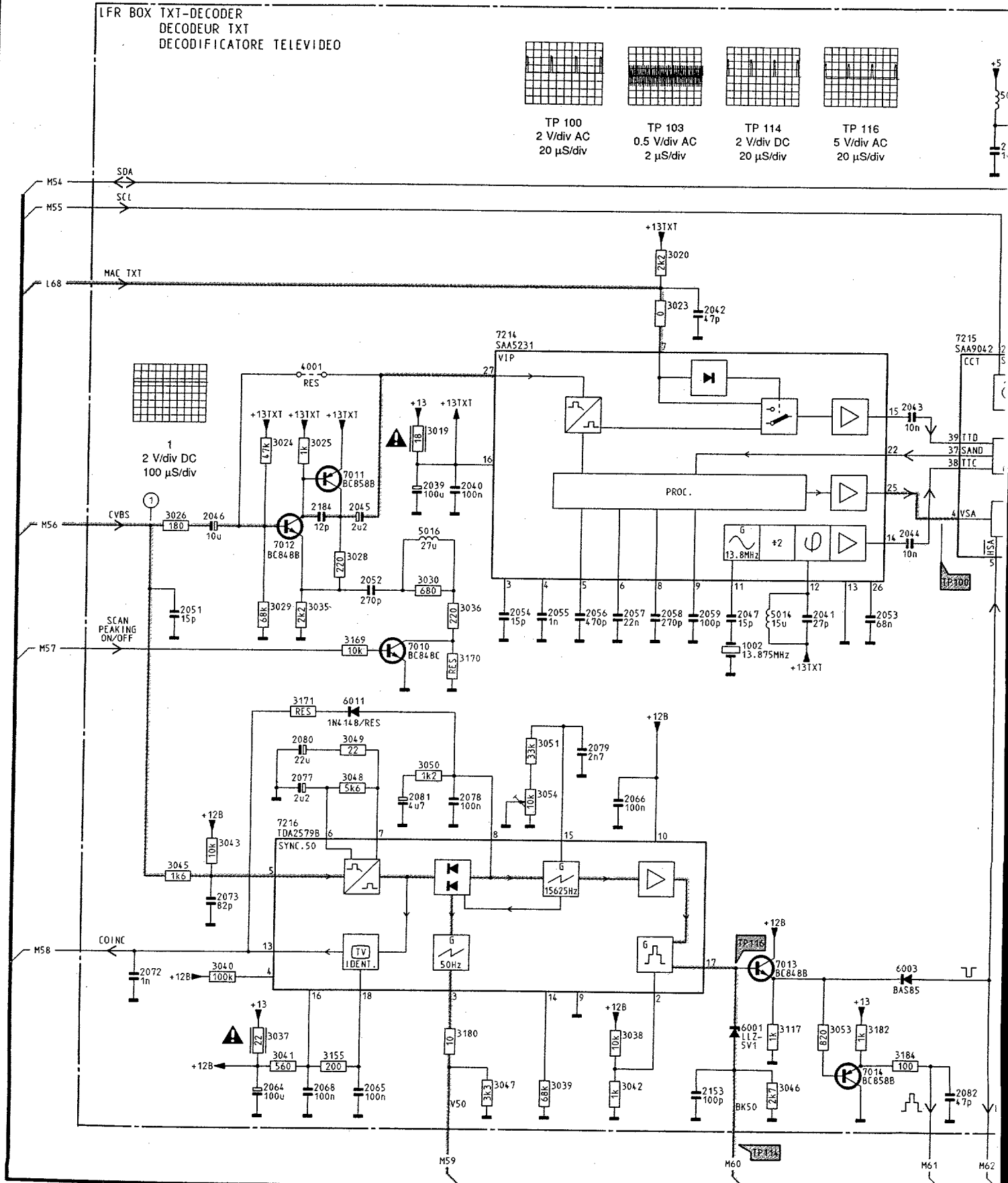
TP 103
0.5 V/div AC
2 μS/div



TP 114
2 V/div DC
20 μS/div

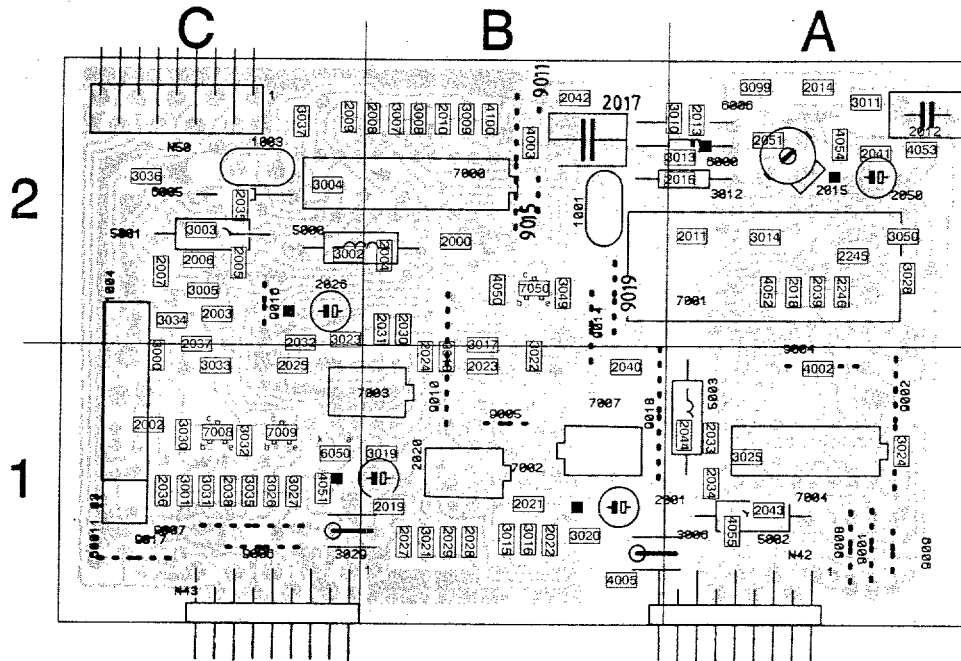


TP 116
5 V/div AC
20 μS/div

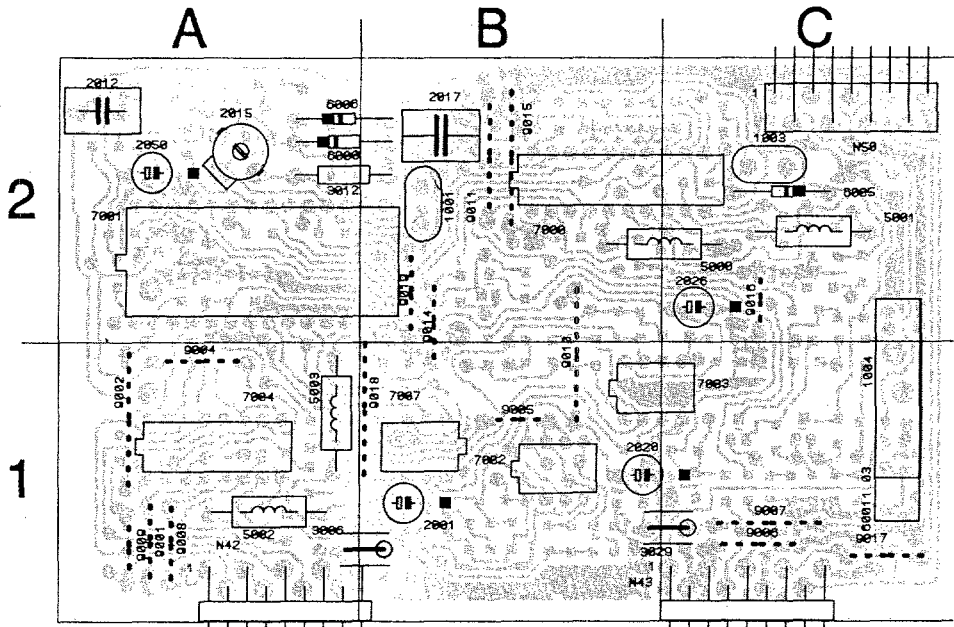


1
2 V/div DC
100 μS/div



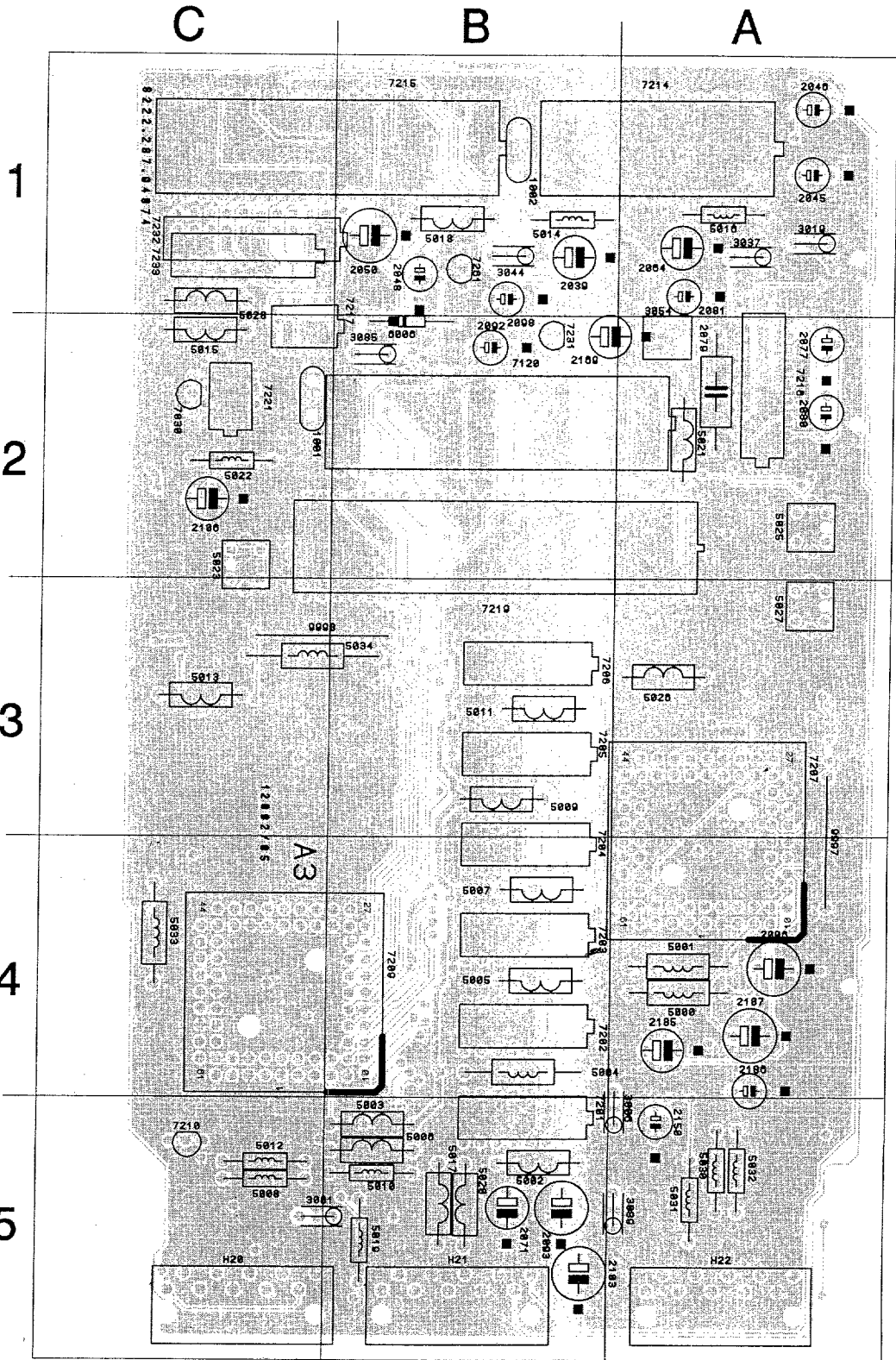


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N43 C1	2011 A2	2027 B1	2043 A1	3009 B2	3025 A1	4002 A1	6001 C1	9005 B1
N50 C2	2012 A2	2028 B1	2044 A1	3010 A2	3026 C1	4003 B2	6005 C2	9006 C1
1001 B2	2013 A2	2029 B1	2050 A2	3011 A2	3027 C1	4005 B1	6006 A2	9007 C1
1003 C2	2014 A2	2030 B2	2051 A2	3012 A2	3028 A2	4050 B2	6050 C1	9008 A1
1004 C1	2015 A2	2031 B2	2245 A2	3013 A2	3029 C1	4051 C1	7000 B2	9009 A1
2000 B2	2016 A2	2032 C2	2246 A2	3014 A2	3030 C1	4052 A2	7001 A2	9010 B1
2001 B1	2017 B2	2033 A1	3000 C1	3015 B1	3031 C1	4053 A2	7002 B1	9011 B2
2002 C1	2018 A2	2034 A1	3001 C1	3016 B1	3032 C1	4054 A2	7003 B1	9014 B2
2003 C2	2019 B1	2035 C2	3002 C2	3017 B1	3033 C1	4055 A1	7004 A1	9015 B2
2004 B2	2020 B1	2036 C1	3003 C2	3018 B1	3034 C2	4100 B2	7007 B1	9016 C2
2005 C2	2021 B1	2037 C1	3004 C2	3019 B1	3035 C1	4100 B2	7008 C1	9017 C1
2006 C2	2022 B1	2038 C1	3005 C2	3020 B1	3036 C2	5000 C2	7009 C1	9018 B1
2007 C2	2023 B1	2039 A2	3006 B1	3021 B1	3037 C2	5001 C2	7050 B2	9019 B2
2008 B2	2024 B1	2040 B1	3007 B2	3022 B1	3049 B2	6002 A1	9001 A1	
2009 C2	2025 C1	2041 A2	3008 B2	3023 C2	3050 A2	6003 A1	9002 A1	



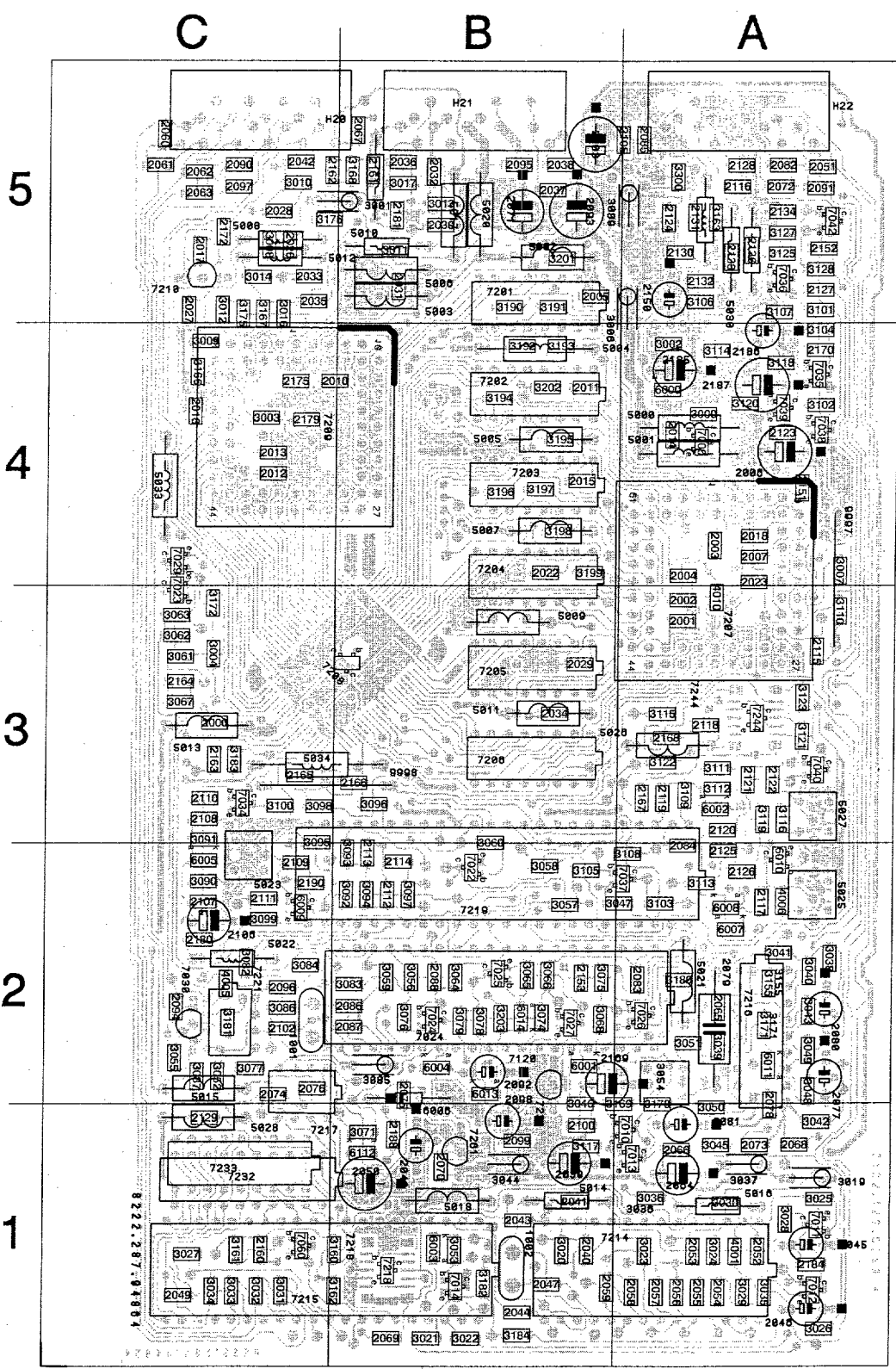
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N43 C1	2011 A2	2027 B1	2043 A1	3009 B2	3025 A1	4002 A1	6001 C1	9005 B1
N50 C2	2012 A2	2028 B1	2044 A1	3010 A2	3026 C1	4003 B2	6005 C2	9006 C1
1001 B2	2013 A2	2029 B1	2050 A2	3011 A2	3027 C1	4005 B1	6006 A2	9007 C1
1003 C2	2014 A2	2030 B2	2051 A2	3012 A2	3028 A2	4050 B2	6050 C1	9008 A1
1004 C1	2015 A2	2031 B2	2245 A2	3013 A2	3029 C1	4051 C1	7000 B2	9009 A1
2000 B2	2016 A2	2032 C2	2246 A2	3014 A2	3030 C1	4052 A2	7001 A2	9010 B1
2001 B1	2017 B2	2033 A1	3000 C1	3015 B1	3031 C1	4053 A2	7002 B1	9011 B2
2002 C1	2018 A2	2034 A1	3001 C1	3016 B1	3032 C1	4054 A2	7003 B1	9014 B2
2003 C2	2019 B1	2035 C2	3002 C2	3017 B1	3033 C1	4055 A1	7004 A1	9015 B2
2004 B2	2020 B1	2036 C1	3003 C2	3018 B1	3034 C2	4100 B2	7007 B1	9016 C2
2005 C2	2021 B1	2037 C1	3004 C2	3019 B1	3035 C1	4100 B2	7008 C1	9017 C1
2006 C2	2022 B1	2038 C1	3005 C2	3020 B1	3036 C2	5000 C2	7009 C1	9018 B1
2007 C2	2023 B1	2039 A2	3006 B1	3021 B1	3037 C2	5001 C2	7050 B2	9019 B2
2008 B2	2024 B1	2040 B1	3007 B2	3022 B1	3049 B2	5002 A1	9001 A1	
2009 C2	2025 C1	2041 A2	3008 B2	3023 C2	3050 A2	5003 A1	9002 A1	

- H20 C5
- H21 B5
- H22 A5
- 1001 C2
- 1002 B1
- 2006 A4
- 2039 B1
- 2045 A1
- 2046 A1
- 2048 B1
- 2050 B1
- 2064 A1
- 2071 B5
- 2077 A2
- 2079 A2
- 2080 A2
- 2081 A1
- 2092 B2
- 2093 B5
- 2098 B1
- 2103 B5
- 2106 C2
- 2150 A5
- 2169 A2
- 2185 A4
- 2186 A4
- 2187 A4
- 3001 B5
- 3006 A5
- 3019 A1
- 3037 A1
- 3044 B1
- 3054 A2
- 3085 B2
- 3089 A5
- 5000 A4
- 5001 A4
- 5002 B5
- 5003 B5
- 5004 B4
- 5005 B4
- 5006 B5
- 5007 B4
- 5008 C5
- 5009 B3
- 5010 B5
- 5011 B3
- 5012 C5
- 5013 C3
- 5014 B1
- 5015 C2
- 5016 A1
- 5017 B5
- 5018 B1
- 5019 B5
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- 5021 A2
- 5022 C2
- 5023 C2
- 5025 A2
- 5026 A3
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- 5028 C1
- 5030 A5
- 5031 A5
- 5032 A5
- 5033 C4
- 5034 C3
- 6006 B2
- 7030 C2
- 7120 B2
- 7201 B5
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- 7204 B4
- 7205 B3
- 7206 B3
- 7207 A4
- 7209 C4
- 7210 C5
- 7214 A1
- 7215 B1
- 7216 A2
- 7217 C2
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- 7232 C1
- 7233 C1
- 7261 B1
- 9997 A4
- 9998 B3



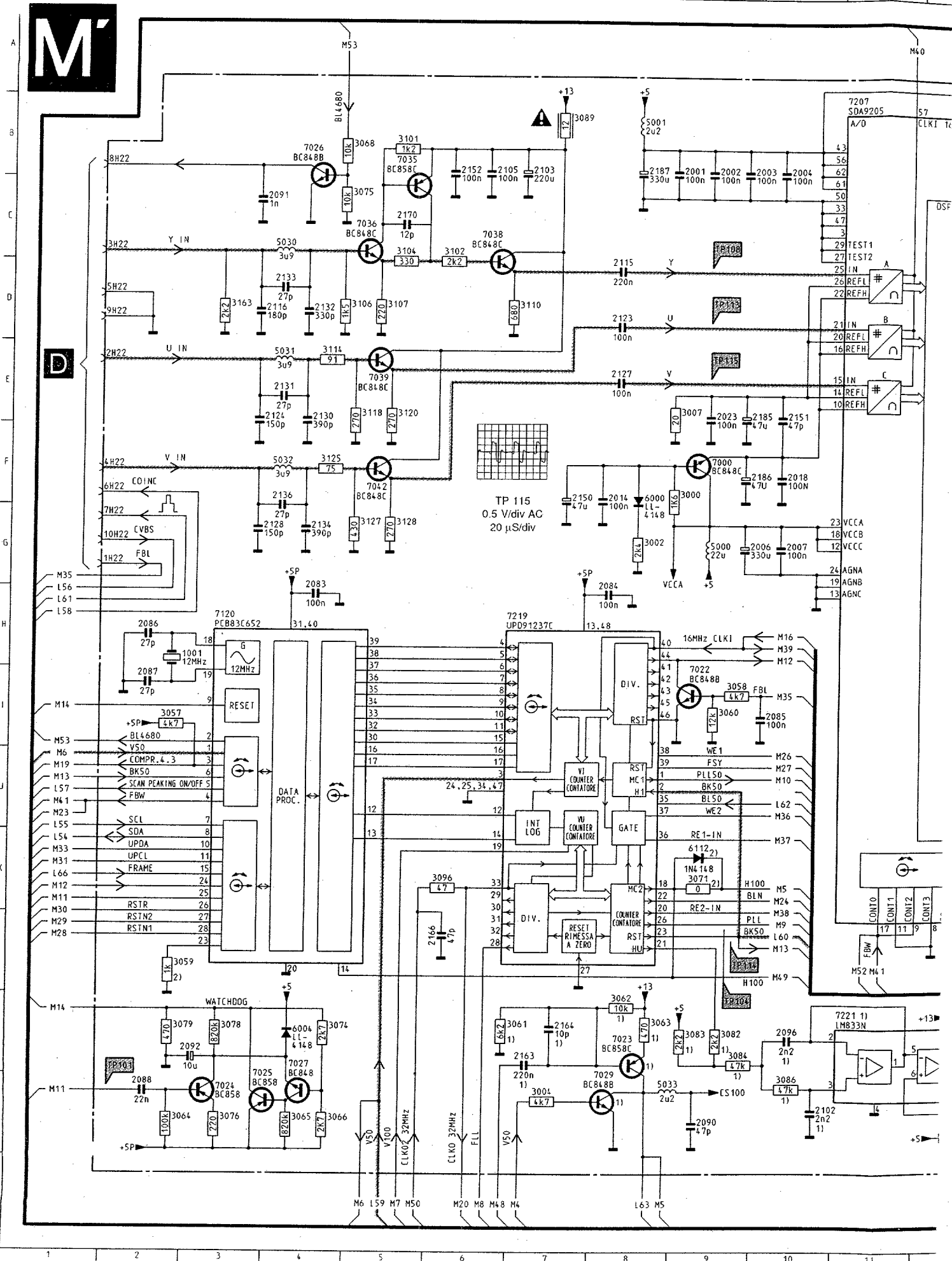
- 7207 A4
- 7209 C4
- 7210 C5
- 7214 A1
- 7215 B1
- 7216 A2
- 7217 C2
- 7219 B2
- 7221 C2
- 7231 B2
- 7232 C1
- 7233 C1
- 7261 B1
- 9997 A4
- 9998 B3

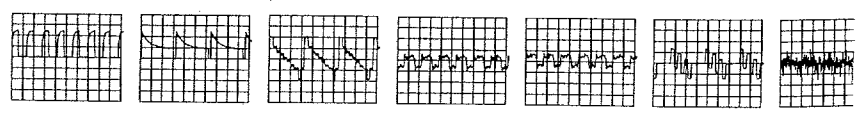
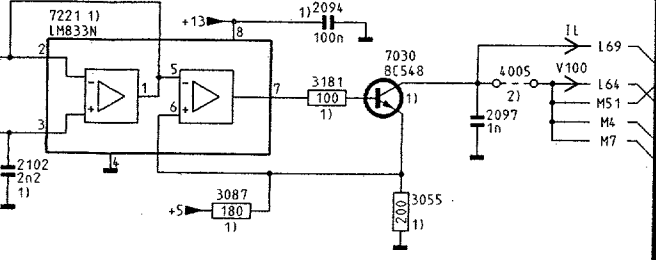
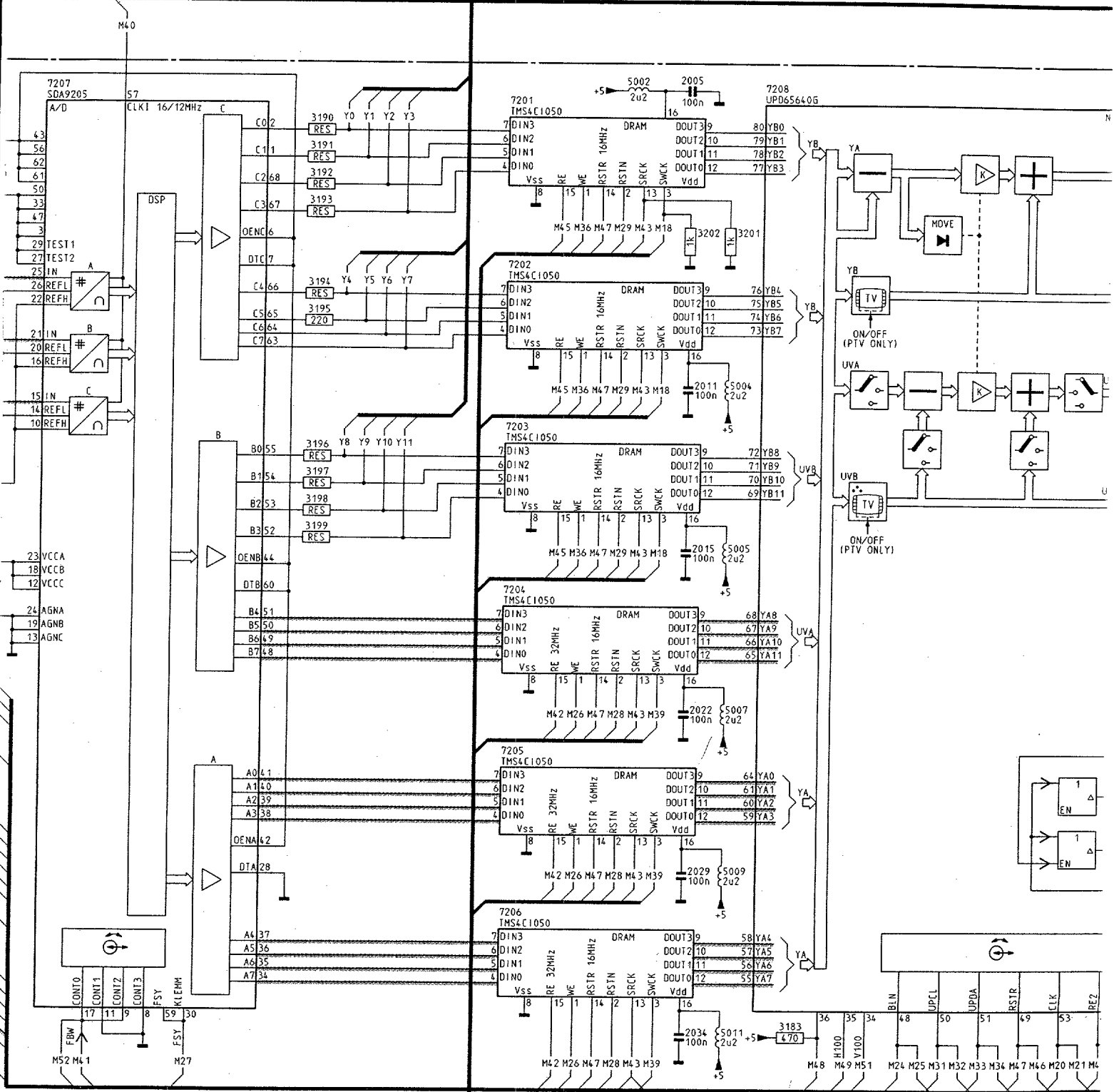
6.51 CHASSIS FL1.6 LFR Box



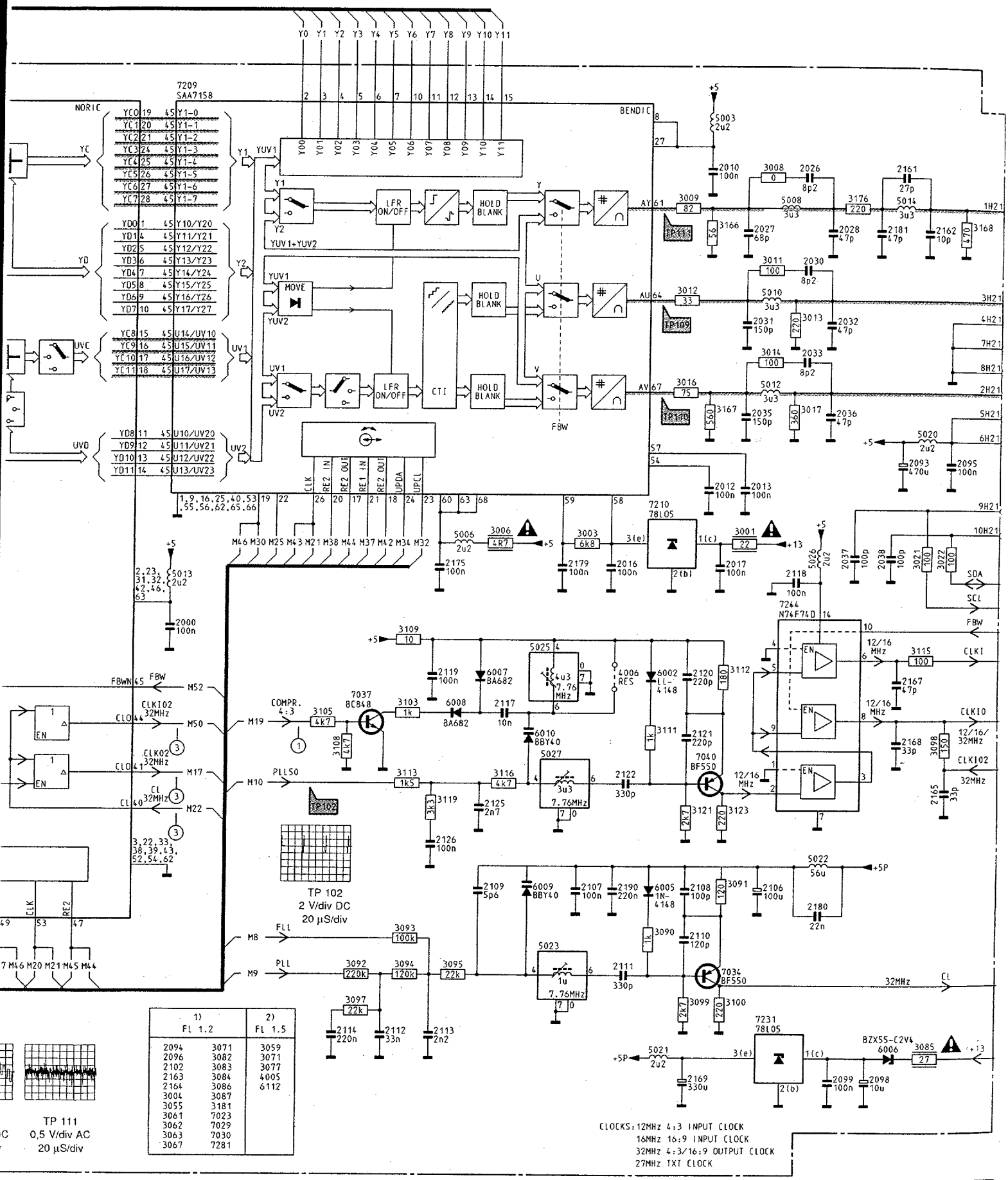
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| 2163 C3 | 3082 C2 | 6011 B3 |
| 2164 C3 | 3083 B2 | 6012 C6 |
| 2166 C3 | 3084 C2 | 6013 C3 |
| 2166 B3 | 3085 B2 | 6014 B1 |
| 2167 A3 | 3086 C2 | 6015 C2 |
| 2168 A3 | 3087 C2 | 6016 A1 |
| 2169 A2 | 3089 A6 | 6017 B6 |
| 2170 A4 | 3090 C2 | 6018 B1 |
| 2172 C5 | 3091 C3 | 6019 B5 |
| 2175 C4 | 3092 B2 | 6020 B5 |
| 2179 C4 | 3093 B2 | 6021 A2 |
| 2180 C2 | 3094 B2 | 6022 C2 |
| 2181 B5 | 3095 C2 | 6023 C2 |
| 2184 A1 | 3096 B3 | 6025 A2 |
| 2185 A4 | 3097 B2 | 6026 A3 |
| 2186 A4 | 3098 C3 | 6027 A3 |
| 2187 A4 | 3099 C2 | 6028 C1 |
| 2188 B1 | 3100 C3 | 6030 A6 |
| 2190 C2 | 3101 A5 | 6031 A5 |
| 3000 A4 | 3102 A4 | 6032 A5 |
| 3001 B5 | 3103 A2 | 6033 C4 |
| 3002 A4 | 3104 A4 | 6034 C3 |
| 3003 C4 | 3105 B2 | 6000 A4 |
| 3004 C3 | 3106 A5 | 6001 B2 |
| 3006 A6 | 3107 A5 | 6002 A3 |
| 3007 A4 | 3108 A2 | 6003 B1 |
| 3008 C5 | 3109 A3 | 6004 B2 |
| 3009 C4 | 3110 A3 | 6005 C2 |
| 3010 C5 | 3111 A3 | 6006 B2 |
| 3011 B5 | 3112 A3 | 6007 A2 |
| 3012 C5 | 3113 A2 | 6008 A2 |
| 3013 B5 | 3114 A4 | 6009 C2 |
| 3014 C5 | 3115 A3 | 6010 A2 |
| 3016 C5 | 3116 A3 | 6011 A2 |
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| 3021 B1 | 3120 A4 | 7000 A4 |
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| 3028 A1 | 3155 A2 | 7023 C3 |
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| 3031 C1 | 3162 B1 | 7026 A2 |
| 3032 C1 | 3163 A6 | 7027 B2 |
| 3033 C1 | 3166 C4 | 7029 C4 |
| 3034 C1 | 3167 C6 | 7030 C2 |
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| 3036 A1 | 3169 A1 | 7035 A4 |
| 3037 A1 | 3170 A1 | 7036 A5 |
| 3038 A2 | 3171 A2 | 7037 A2 |
| 3039 A2 | 3172 C3 | 7038 A4 |
| 3040 A2 | 3175 C5 | 7039 A4 |
| 3041 A2 | 3176 C5 | 7040 A3 |
| 3042 A1 | 3180 A2 | 7042 A5 |
| 3043 A2 | 3181 C2 | 7060 C1 |
| 3044 B1 | 3182 B1 | 7120 B2 |
| 3045 A1 | 3183 C3 | 7201 B5 |
| 3046 B1 | 3184 B1 | 7202 B4 |
| 3047 A2 | 3180 B5 | 7203 B4 |
| 3048 A2 | 3191 B5 | 7204 B4 |
| 3049 A2 | 3192 B4 | 7206 B3 |
| 3050 A1 | 3193 B4 | 7206 B3 |
| 3051 A2 | 3194 B4 | 7207 A4 |
| 3052 C2 | 3195 B4 | 7208 B3 |
| 3053 B1 | 3196 B4 | 7209 C4 |
| 3054 A2 | 3197 B4 | 7210 C5 |
| 3055 C2 | 3198 B4 | 7214 A1 |
| 3056 B2 | 3199 B4 | 7215 B1 |
| 3057 B2 | 3201 B5 | 7216 A2 |
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| 3059 B2 | 3203 B2 | 7218 B1 |
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| 3061 C3 | 4001 A1 | 7221 C2 |
| 3062 C3 | 4006 C2 | 7231 B2 |
| 3063 C3 | 4006 A2 | 7232 C1 |
| 3064 B2 | 4010 A3 | 7233 C1 |
| 3065 B2 | 6000 A4 | 7244 A3 |
| 3066 B2 | 6001 A4 | 7261 B1 |
| 3067 C3 | 6002 B5 | 9997 A4 |
| 3068 B2 | 6003 B5 | 9998 B3 |
| 3071 B1 | 6004 B4 | |
| 3074 B2 | 6005 B4 | |
| 3075 B2 | 6006 B5 | |
| 3076 B2 | 6007 B4 | |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| H20 C5 | 2012 C4 | 2032 B5 | 2047 B1 | 2062 C6 | 2077 A2 | 2093 B5 | 2110 C3 | 2125 A2 |
| H21 B5 | 2013 C4 | 2033 C5 | 2048 B1 | 2063 C5 | 2078 A1 | 2094 C2 | 2111 C2 | 2126 A2 |
| H22 A5 | 2014 A4 | 2034 B3 | 2049 C1 | 2064 A1 | 2079 A2 | 2095 B5 | 2112 B2 | 2127 A5 |
| 1001 C2 | 2015 B4 | 2035 C5 | 2050 B1 | 2065 A2 | 2080 A2 | 2096 C2 | 2113 B2 | 2128 A5 |
| 1002 B1 | 2016 C4 | 2036 B5 | 2051 A5 | 2066 A1 | 2081 A1 | 2097 C5 | 2114 B2 | 2129 C1 |
| 2000 C3 | 2017 C5 | 2037 B5 | 2052 A1 | 2067 B5 | 2082 A5 | 2098 B1 | 2115 A3 | 2130 A5 |
| 2001 A3 | 2018 A4 | 2038 B5 | 2053 A1 | 2068 A1 | 2083 A2 | 2099 B1 | 2116 A5 | 2131 A5 |
| 2002 A3 | 2022 B4 | 2039 B1 | 2054 A1 | 2069 B1 | 2084 A2 | 2100 B1 | 2117 A2 | 2132 A5 |
| 2003 A4 | 2023 A3 | 2040 B1 | 2055 A1 | 2070 B1 | 2085 A5 | 2102 C2 | 2118 A3 | 2133 A5 |
| 2004 A4 | 2026 C5 | 2041 B1 | 2056 A1 | 2071 B5 | 2086 B2 | 2103 B5 | 2119 A3 | 2134 A5 |
| 2005 B5 | 2027 C5 | 2042 C5 | 2057 A1 | 2072 A5 | 2087 B2 | 2105 A5 | 2120 A3 | 2136 A5 |
| 2006 A4 | 2028 C5 | 2043 B1 | 2058 A1 | 2073 A1 | 2088 B2 | 2106 C2 | 2121 A3 | 2150 A5 |
| 2007 A4 | 2029 B3 | 2044 B1 | 2059 A1 | 2074 C2 | 2090 C5 | 2107 C2 | 2122 A3 | 2151 A4 |
| 2010 B4 | 2030 B5 | 2045 A1 | 2060 C5 | 2075 B2 | 2091 A5 | 2108 C3 | 2123 A4 | 2152 A5 |
| 2011 B4 | 2031 B5 | 2046 A1 | 2061 C5 | 2076 C2 | 2092 B2 | 2109 C2 | 2124 A5 | 2153 B2 |





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 11 0.5 V/div 20 μs/div



	1)	2)
	FL 1.2	FL 1.5
2094	3071	3059
2096	3082	3071
2102	3083	3077
2163	3084	4005
2164	3086	6112
3004	3087	
3055	3181	
3061	7023	
3062	7029	
3063	7030	
3067	7281	

TP 111
0.5 V/div AC
20 μS/div

TP 102
2 V/div DC
20 μS/div

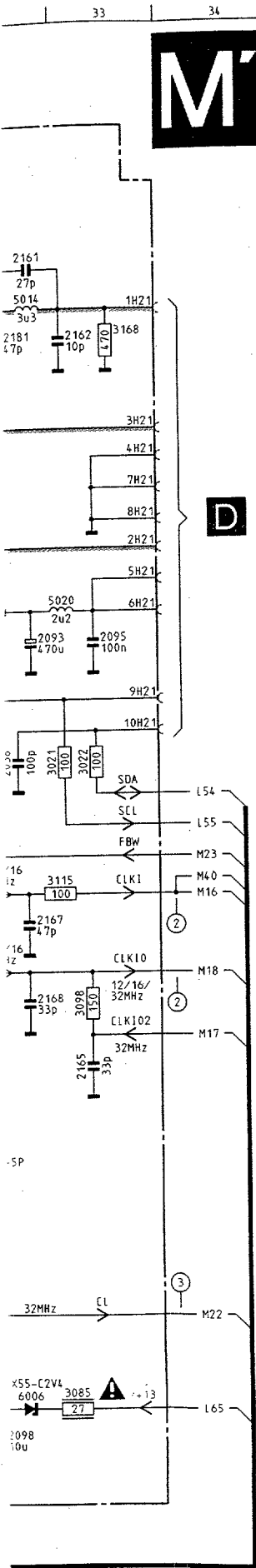
CLOCKS: 12MHz 4:3 INPUT CLOCK
16MHz 16:9 INPUT CLOCK
32MHz 4:3/16:9 OUTPUT CLOCK
27MHz TXT CLOCK

1.6 6.54

6.55 CHASSIS FL1.6

M

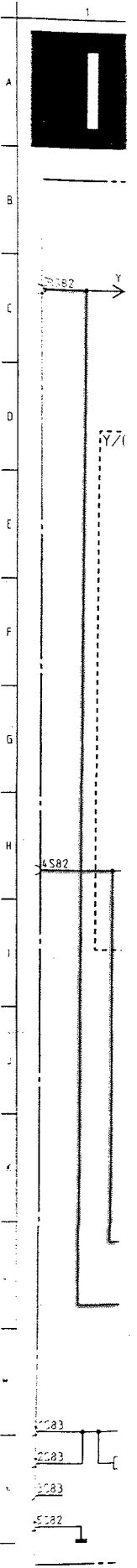
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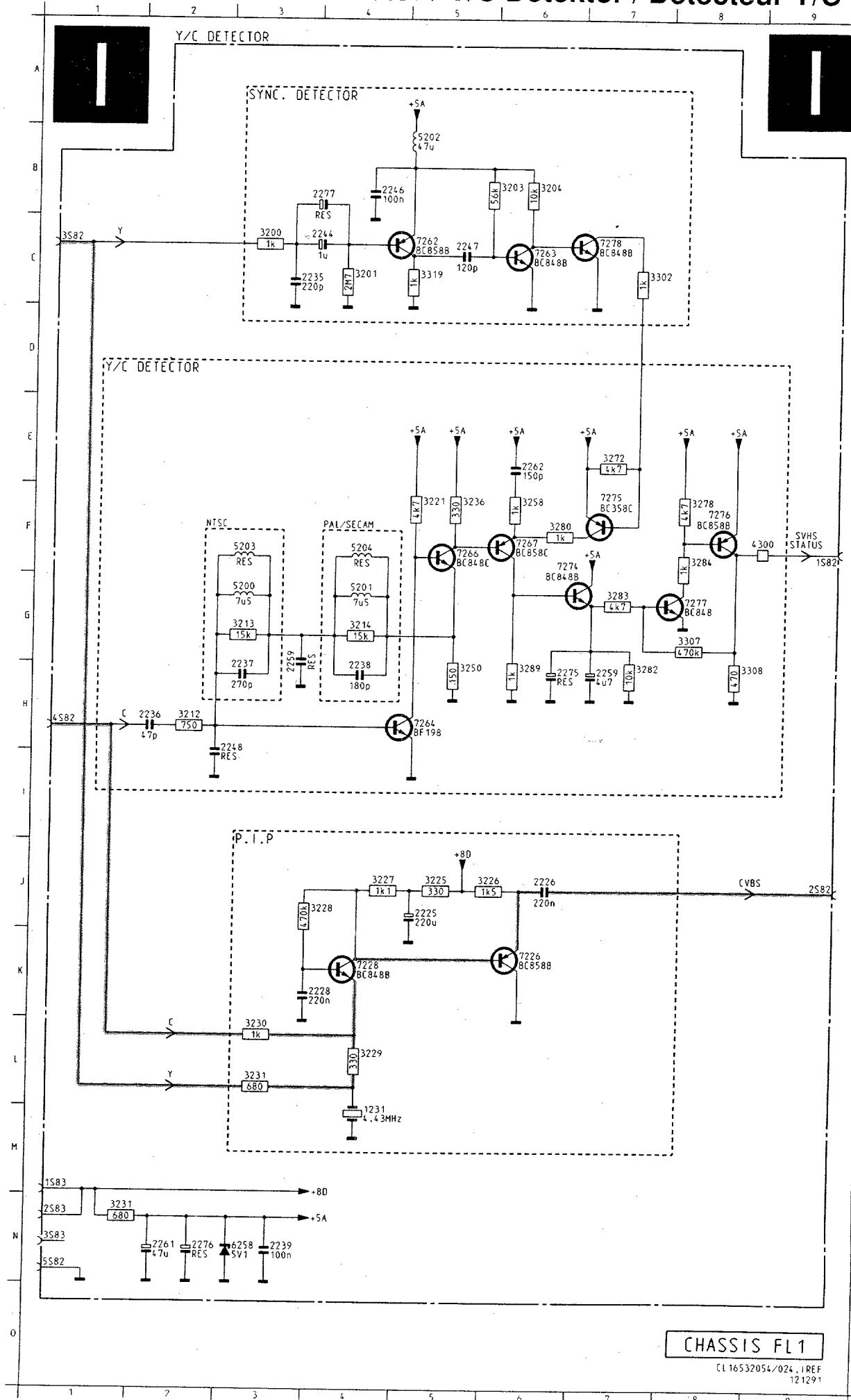
1001	H 2	3021	G33	6010	I28
2000	H23	3022	G33	6112	K 9
2001	B 9	3055	M13	7000	F 9
2002	B 9	3057	I 2	7022	I 9
2003	B 9	3058	I 9	7023	M 8
2004	B10	3059	I 2	7024	N 3
2005	B18	3060	I 9	7025	N 3
2006	G 9	3061	M 6	7026	B 4
2007	G10	3062	M 8	7027	M 4
2010	C30	3063	M 8	7029	N 8
2011	E18	3064	N 2	7030	M13
2012	F30	3065	N 4	7034	L30
2013	F30	3066	N 4	7035	B 5
2014	F 8	3068	B 4	7036	C 5
2015	G18	3071	K 9	7037	I26
2016	G29	3074	M 4	7038	C 6
2017	G30	3075	C 4	7039	E 5
2018	F10	3076	N 3	7040	J30
2022	H18	3078	M 3	7042	F 5
2023	E 9	3079	M 2	7120	H 3
2026	C31	3082	M 9	7201	B16
2027	C30	3083	M 9	7202	D16
2028	C31	3084	M 9	7203	E16
2029	J18	3085	M33	7204	G16
2030	D31	3086	N10	7205	I16
2031	D30	3087	N12	7206	K16
2032	D31	3089	B 7	7207	B11
2033	E31	3090	L29	7208	B18
2034	L18	3091	K30	7209	B23
2035	F30	3092	L26	7210	G29
2036	F31	3093	L26	7219	H 6
2037	G32	3094	L26	7221	M11
2038	G32	3095	L27	7231	M31
2083	H 4	3096	K 6	7244	H31
2084	H 8	3097	M26		
2085	I10	3098	I33		
2086	H 2	3099	M30		
2087	I 2	3100	M30		
2088	N 2	3101	B 5		
2090	N 9	3102	C 6		
2091	C 3	3103	I26		
2092	M 3	3104	C 5		
2093	F32	3105	I25		
2094	M13	3106	D 4		
2095	F33	3107	D 5		
2096	M10	3108	J25		
2097	N14	3109	H26		
2098	N32	3110	D 7		
2099	M32	3111	I29		
2102	N10	3112	I30		
2103	B 7	3113	J26		
2105	B 6	3114	E 4		
2106	K31	3115	H33		
2107	K28	3116	J27		
2108	K30	3118	E 5		
2109	K27	3119	J27		
2110	L30	3120	E 5		
2111	L29	3121	J30		
2112	M26	3123	J30		
2113	M27	3125	F 4		
2114	M25	3127	G 5		
2115	D 8	3128	G 5		
2116	D 3	3163	D 3		
2117	I27	3166	C30		
2118	G31	3167	E30		
2119	I27	3168	C33		
2120	I30	3176	C32		
2121	I30	3181	M13		
2122	J29	3183	L19		
2123	D 8	3190	B14		
2124	E 3	3191	B14		
2125	J27	3192	C14		
2126	K27	3193	C14		
2127	E 8	3194	D14		
2128	G 3	3195	D14		
2130	E 4	3196	E14		
2131	E 4	3197	F14		
2132	D 4	3198	F14		
2133	D 4	3199	F14		
2134	G 4	3201	C18		
2136	F 4	3202	C18		
2150	F 7	4005	M14		
2151	E10	4006	I29		
2152	B 6	5000	G 9		
2161	C32	5001	B 8		
2162	C33	5002	B17		
2163	M 7	5003	B30		
2164	M 7	5004	E18		
2165	J33	5005	G18		
2166	L 6	5006	G27		
2167	I32	5007	H18		
2169	N30	5008	C31		
2170	C 5	5009	J18		
2175	G27	5010	D31		
2179	G28	5011	L18		
2180	K31	5012	E31		
2181	C32	5013	G23		
2185	E 9	5014	C32		
2186	F 9	5020	F33		
2187	B 8	5021	M29		
2190	K29	5022	K31		
3000	F 9	5023	L28		
3001	G30	5025	H28		
3002	G 8	5026	G31		
3003	G28	5027	J28		
3004	N 7	5030	C 4		
3006	G27	5031	E 4		
3007	E 9	5032	F 4		
3008	C31	5033	N 8		
3009	C30	6000	F 8		
3011	D31	6002	I29		
3012	D30	6004	M 4		
3013	D31	6006	M32		
3014	E31	6007	I27		
3016	E30	6008	I27		
3017	E31	6009	K28		

CHASSIS FL1.6

CL26532055/012.MREF 240492



6.57 CHASSIS FL1.6 Y/C Detector / Y/C Detektor / Détecteur Y/C

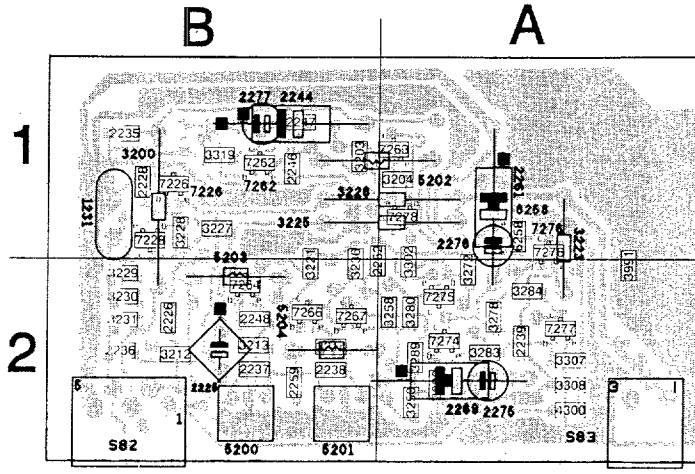


1231	M 4
2225	J 5
2226	J 6
2228	K 3
2235	C 3
2236	H 2
2237	H 3
2238	H 4
2239	N 3
2244	C 4
2246	B 4
2247	C 5
2248	I 2
2259	G 3
2259	H 7
2261	N 2
2262	E 6
2275	H 6
2276	N 2
2277	B 4
3200	C 3
3201	C 4
3203	B 5
3204	B 6
3212	H 2
3213	G 3
3214	G 4
3221	F 5
3225	J 5
3226	J 5
3227	J 4
3228	J 4
3229	L 4
3230	L 3
3231	L 3
3231	N 1
3236	F 5
3250	G 5
3258	F 6
3272	E 7
3278	F 8
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
7263	C 6
7264	H 5
7266	F 5
7267	F 6
7274	F 6
7275	F 7
7276	F 8
7277	G 8
7278	C 7

CHASSIS FL1
 CL16532054/024.1REF
 121291

Y/C Detector panel / Y/C Detektor Platine / Platine du détecteur Y/C

- 1231 H 4
- 2225 J 5
- 2226 J 6
- 2228 K 3
- 2235 C 3
- 2236 H 2
- 2237 H 3
- 2238 H 4
- 2239 N 3
- 2244 C 4
- 2246 B 4
- 2247 C 5
- 2248 I 2
- 2259 G 3
- 2259 H 7
- 2261 N 2
- 2262 E 6
- 2275 H 6
- 2276 N 2
- 2277 B 4
- 3200 C 3
- 3201 C 4
- 3203 B 5
- 3204 B 6
- 3212 H 2
- 3213 G 3
- 3214 G 4
- 3221 F 5
- 3225 J 5
- 3226 J 5
- 3227 J 4
- 3228 J 4
- 3229 L 4
- 3230 L 3
- 3231 L 3
- 3231 N 1
- 3236 F 5
- 3250 G 5
- 3258 F 6
- 3272 E 7
- 3278 F 8
- 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
- 7263 C 6
- 7264 H 5
- 7266 F 5
- 7267 F 6
- 7274 F 6
- 7275 F 7
- 7276 F 8
- 7277 G 8
- 7278 C 7



S82 B2	2239 A2	2276 A1	3221 B2	3250 A2	3307 A2	6258 A1	7276 A1
S83 A2	2244 B1	2277 B1	3223 A1	3258 B2	3308 A2	7226 B1	7277 A2
1231 B1	2246 B1	3190 A2	3225 A1	3272 A2	3319 B1	7228 B1	7278 A1
2225 B2	2247 B1	3200 B1	3226 A1	3278 A2	3991 A2	7262 B1	
2226 B2	2248 B2	3201 A1	3227 B1	3280 A2	4300 A2	7263 A1	
2228 B1	2259 B2	3203 B1	3228 B1	3282 A2	5200 B2	7264 B2	
2235 B1	2261 A1	3204 A1	3229 B2	3283 A2	5201 B2	7266 B2	
2236 B2	2262 B2	3212 B2	3230 B2	3284 A2	5202 B1	7267 B2	
2237 B2	2269 A2	3213 B2	3231 B2	3289 A2	5203 B2	7274 A2	
2238 B2	2275 A2	3214 B2	3236 B2	3302 A2	5204 B2	7275 A2	

7.1 CHASSIS FL1.6 Electrical adjustments

Setting conditions

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

1. Electrical settings on the large signal panel

1.1 +141V supply voltage

Supply the mains voltage; this must be isolated from the mains.

Connect a voltmeter over C2238.

Using R3371, on the SOPS DRIVE CIRCUIT (fig. 7.2) set the supply voltage to $+141V \pm 0.5V$.

1.2 +5V supply voltage

Connect a voltmeter to pin 8 of L02

Adjust the voltage to 5.4V using R3558

1.3 +13V supply voltage

Connect a voltmeter to pin 6 of connector L02

Adjust the voltage to 14.2V using R3234.

1.4 Focusing

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

1.5 Vg2 setting

Supply an aerial signal.

Set the contrast to maximum and the brightness and saturation to nominal.

Using an oscilloscope set to field frequency, measure the direct voltage level of the measurement pulse (fig. 7.1) on pin 9 of IC7705, IC7706 and IC7707 in relation to earth. Now adjust the highest voltage level found with the aid of the Vg2 potentiometer (bottom left on the Line output transformer) to $150V \pm 2V$.

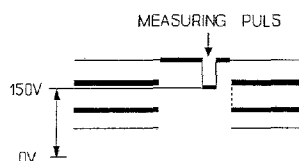


Fig 7.1

1.6 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.

1.7 Horizontal synchronisation

Connect point 5-IC7400 to point 9-IC7400.

Supply an aerial signal and set the receiver. Adjust potentiometer R3406 until the picture is straight.

Break the through connection.

1.8 Horizontal centring

Set using potentiometer R3513.

1.9 Picture width

Set using potentiometer R3607.

1.10 Vertical centring

Set using potentiometer R3467.

1.11 Picture height

Set using potentiometer R3410.

1.12 East/West correction

Set using potentiometer R3602.

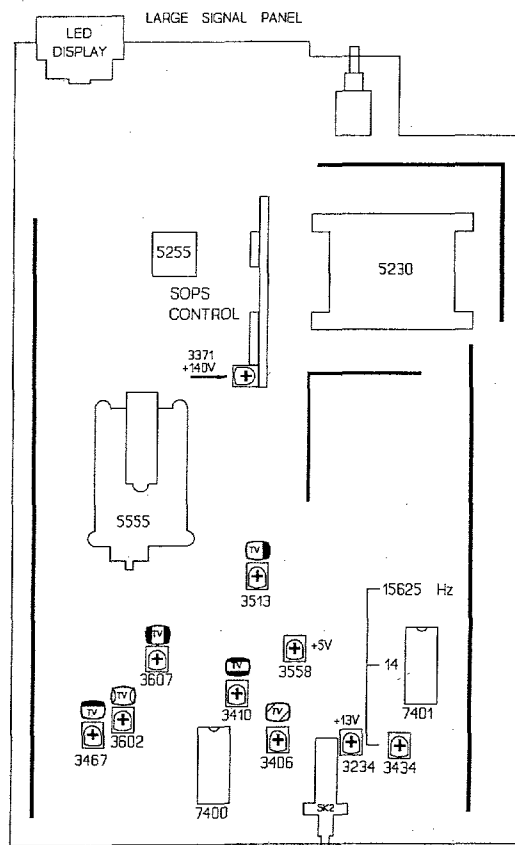


Fig 7.2

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation

Connect a signal generator with a 2 carrier stereo signal ("stereo" mode).

Select 1kHz for the right-hand channel and switch off the sound for the left-hand channel.

Connect an oscilloscope to pin 3 of Euroconnector EXT1

Using R3602 on the small signal panel, set the amplitude of the signal to minimum amplitude.

2.2 4.43 MHz chroma suppression circuit

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

2.3a Electrical settings for sets with IC7364 - TDA4510

a-1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1.

Connect an oscilloscope to pin 9-IC7364.

Set L5354 to maximum amplitude.

a-2 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7364 (TDA4510) to earth. Set C2380 so that the colour on the screen has practically stopped. Remove the interconnection.

2.3b Electrical settings for sets with IC7365-TDA4650

b-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.

b-2 4.50 MHz NTSC sound suppression

Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV_{rms}. Connect point 26-IC7365 to point 13-IC7365.

Connect an oscilloscope to point 15 of IC7365.

Set L5346 to minimum amplitude.

Remove the short circuit.

b-3 6.50 MHz SECAM DK sound suppression

Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV_{rms}.

Connect point 28-IC7365 to point 13-IC7365.

Connect an oscilloscope to point 15 of IC7365.

Set L5346 to minimum amplitude.

Remove the short circuit.

b-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.

b-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.

b-6 SECAM demodulators

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

Connect the oscilloscope to pin 1-IC7365. Set R3370 to minimum amplitude.

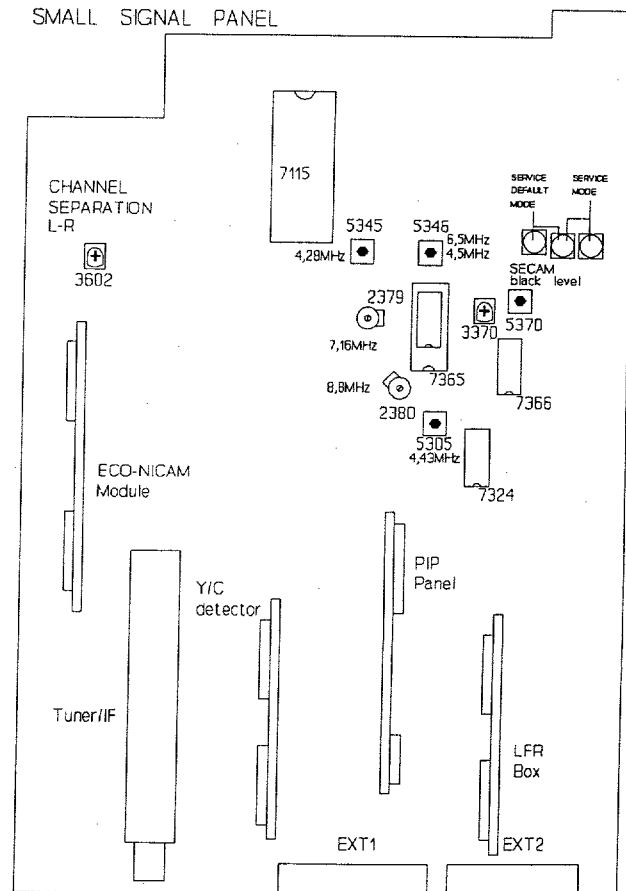


Fig 7.3

3. Electrical 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 16 MHz 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. 7.4). Adjust coil L5027 so that the positive-going flank of the signal at point 1 of IC7219 comes 7.62 μ sec after the negative-going flank of the sync pulse in the video signal (point 5 of IC7216).

3.3 32 MHz 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 12 MHz oscillator

Switch on compress. Measure the signals on point 1 of IC7219 and on point 5 of IC7216 simultaneously with an oscilloscope (fig. 7.4). Adjust coil L5025 so that the rising flank of the signal on point 1 of IC7219 comes 7.62 μ sec after the negative flank of the sync pulse in the video signal (point 5 of IC7216).

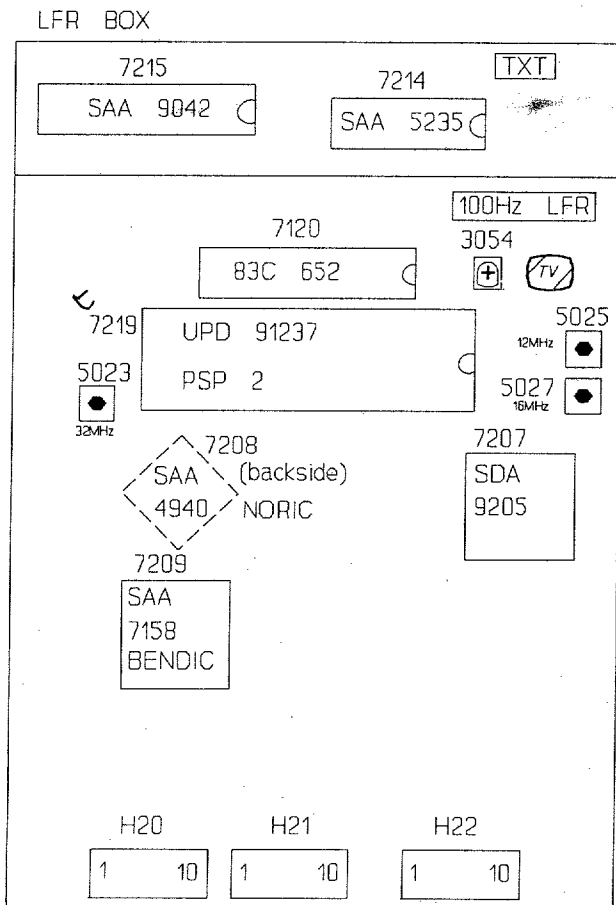


Fig 7.5

4. Electrical settings on the ECO-NICAM decoder panel

4.1 Neutral frequency adjustment

Connect a frequency counter via a probe (Ci \leq 15pF) to pin 19 of IC7001 (SAA 7280) and pin 15 (GND).

Adjust C2015 in such a manner that the clock frequency is set at 728.025 kHz. (\pm 5Hz)

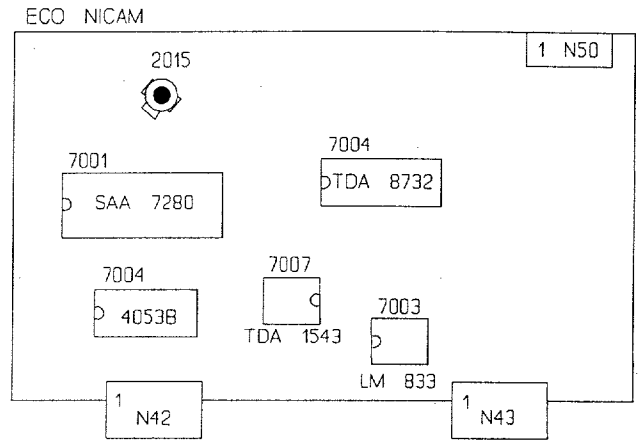


Fig 7.6

5. Y/C detector adjustment

5.1 PAL/SECAM

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

5.2 NTSC

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

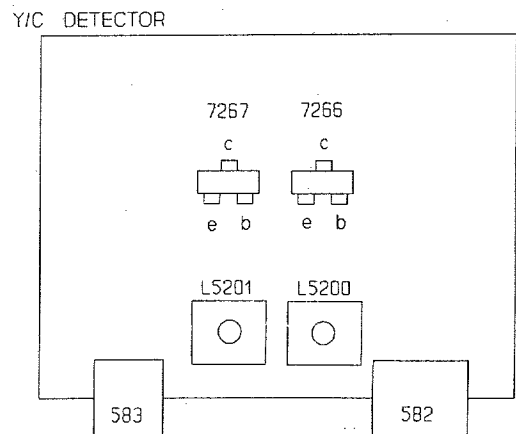


Fig 7.7

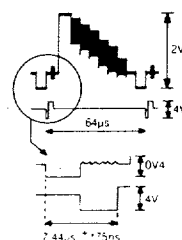


Fig 7.4

6. Electrical settings on the PIP panel

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

6.1 Horizontal synchronisation

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

6.2 AGC

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

6.3a Setting for PIP modules with TDA4510

a-1 Chroma bandpass filter

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp. Connect an oscilloscope to pin 9-IC7126. Set L5118 to maximum amplitude.

a-2 PAL chroma auxiliary oscillator

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

a-3 The delayline

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position. Set L5155 and L5157 so that the vectors lie in one line (points which are furthest from the origin). Set the pattern generator to the "DEM" mode. Set R3157 so that the vectors lie on top of one another in the origin.

6.3b Setting for PIP modules with TDA4554

b-1 Chroma bandpass filter

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

b-2 PAL chroma auxiliary oscillator

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

b-3 NTSC chroma auxiliary oscillator

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

b-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.

b-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.

b-6 SECAM demodulators

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using L5175, set the DC level during the scan equal to the DC level during the flyback. In the same way set L5170, but now measure at pin 3-IC7125. Remove the interconnection.

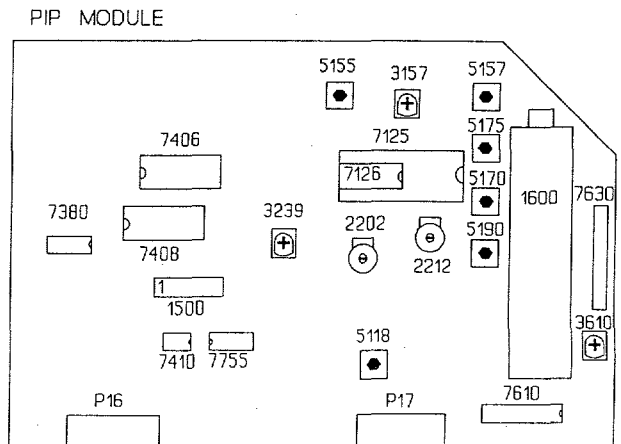


Fig 7.8

7.5 CHASSIS FL1.6 Electrical adjustments

7. Adjustments in the service menu

Switch in the service menu by connecting pins S23 and S24 on the small-signal panel briefly with each other (see section 9).

The various adjustments can be activated using the colour and +/- keys on the remote control or on the set. By selecting "store" in the menu the adjusted values are stored in memory and the Service Menu is exited

7.1 White balance

Connect a pattern generator and choose a white picture.

- Choose b (white balance)
- Select a (green) or b (blue)
- Using "P +/-" or "menu +/-" adjust the values of green ("GREEN") and blue ("BLUE") until the desired white balance has been reached.
- Press the "menu" key
- Store the chosen value by selecting "store" in the menu.

7.2 Cut off

- Select c (cut off)
- Select a (green) or b (blue)

7.3 Options

The control unit used in this set has been prepared for operation of all the functions possible with this set. For correct operation, however, the control unit has to "know" the functions/features located in the set. This is done with a so-called option code.

A number is allocated to each function. The possible functions are shown with their respective numbers in the tables alongside.

Optioncode 1

The numbers of the functions shown in the table have to be added to each other. The total forms the number for option code 1.

For example, a set has:

<i>Function</i>	<i>Number</i>
-----------------	---------------

Front-end FQ618/ME/IF	2
A PIP module	8

	--- +
Optioncode 1 now becomes	10

Option code 2

The number of the functions shown in the table have to be added to each other. The total forms the number for option code 2.

For example, a set has:

<i>Function</i>	<i>Number</i>
-----------------	---------------

IC7175 present on SSP	1
100 Hz high-end box	4

	--- +
Option code 2 now becomes	5

The option codes are set as follows:

- Select "options" in the service menu.
- Select option 1, 2, 3 or 4.
- Using the "menu +/-" or "P +/-" key select the required option number
- Press the "menu" key
- Store the chosen value by selecting "store" in the menu

These option codes are software adaptations. If the set has to be equipped for these features, the necessary hardware has also to be fitted.

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

Option
Nbr
1
2
4
32
64

Optionc

Optionc

Nbr.

1

Optioncode 2	
Nbr	Function
1	IC7175 present on SSP Applicable in case IC7175 (PCF8574) is present on the SSP (this is the case in all FL1.6AA sets).
2	Automatic 1/2 figure mode The set recognizes a-2 figure program number if two numbers are entered quickly enough in succession on the remote control.
4	100 Hz High-end box fitted This is always the case.
32	ECO NICAM module present In this case the digital sound broadcast in NICAM transmissions can also be received (see further the number 64 of option code 1).
64	LFR box present This is always the case

Optioncode 3 = 0

Optioncode 4	
Nbr.	Function
1	Teletext Peaking Filter on/off for LFR-Box (Scandinavia)

er
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 elect the
 "store" in
 ons. If
 res, the
 SECAM
 AM L' is
 low
 M L' is
 erally
 ture in
 with
 CAM
 picture.

1. The Service Default Mode

The FL1.6 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. Software protection

If it is observed by the control that the front end has ceased to give an IC response, or that IC7430, IC7600 and also IC 7680 are no longer giving any response, the set will switch to the protection mode since it will be assumed that the +5 V or the +13 V power-supply voltage is absent. This software protection device consists of a fault signal (LEDs \odot \otimes \odot , code99) and the switching of the set to stand-by. To enable the fault to be traced, the set has now to be switched to the service default mode. The software protection system is then switched out of circuit.

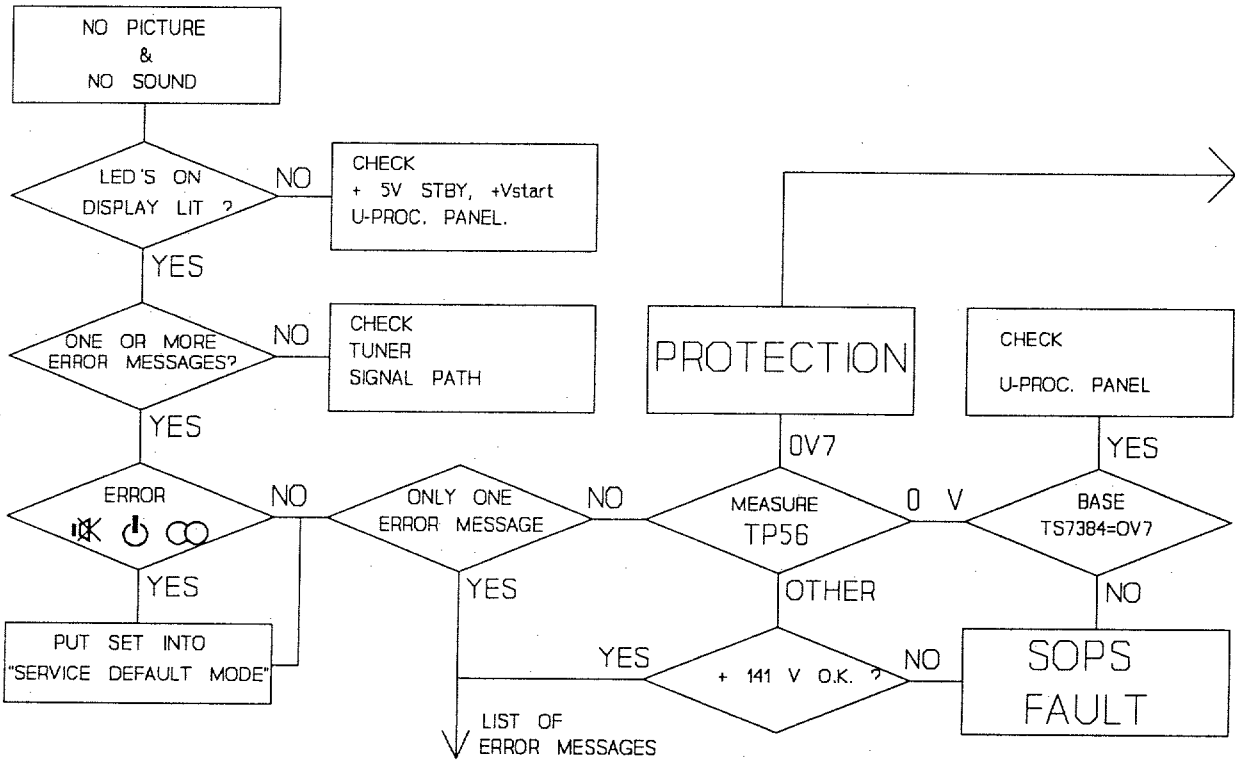
3. Replacement of EEPROM IC7137

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.

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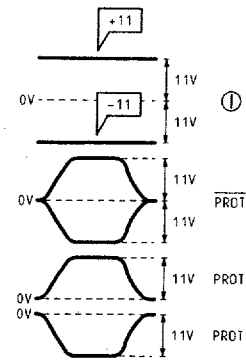
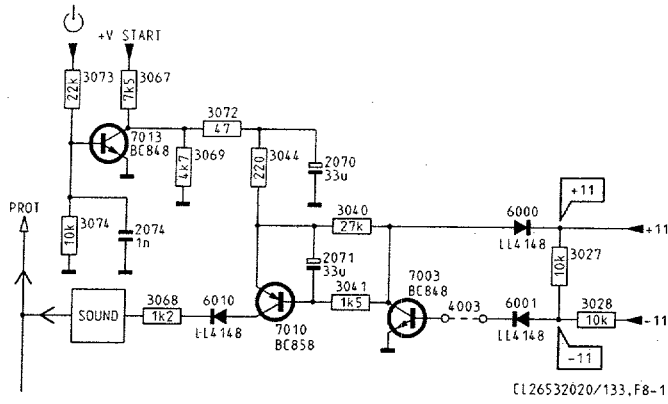
8.3 CHASSIS FL1.6 List of error messages

Error number on screen	Flashing LED							Description of error
								
1 ¹⁾			X		X	X		I ² C, IC7108, SSP [H] (MSM6307)
3					X	X		I ² C, IC7201, HIGH END BOX, [L] (SAA9042) I ² C, IC7215, LFR BOX [L'] (SAA9042)
4				X			X	I ² C, IC7220, LFR BOX, [M'] (8 C652)
5				X				I ² C, IC7408, PIP [J] (SDA9088)
6				X	X	X		I ² C, IC7600, SSP [F] (TDA8417)
7							X	I ² C, IC7680, SSP [F] (TDA8425)
9			X	X		X		I ² C, IC7430, SSP [D] (TDA4680)
10				X	X		X	I ² C, IC7395, SSP [D] (TDA8443)
11				X	X			I ² C, front-end, SSP [C] (FQ 816)
12							X	I ² C, IC7137, SSP [H] (X24C04)
13			X					I ² C, bus on chassis blocked
14			X	X				I ² C, IC7258, SSP [C] (HEF4094)
15			X	X	X			I ² C, IC7219, SSP [C] (TEA6414)
16			X			X		I ² C, IC7040, SAT Interface [P] (TEA6414)
17			X		X			IR-receiver on SSP [H] blocked (1100)
18				X		X	X	7115, SSP, μ proc. [H]
19			X	X	X	X		UART Bus blocked, 7115, SSP, μ proc. [H]
20				X	X	X	X	7115, SSP, μ proc. [H]
21				X				EAROM X24C04 empty, IC7137, SSP [H] (§ 8.3)
28		X						I ² C, PIP tuner [J]
29		X						I ² C, IC7638, PIP-modulo [J], (SAA1300)
30			X		X		X	I ² C, IC7175, SSP [C] (PCF8574)
31			X		X	X	X	I ² C, IC7001, NICAM-panel [K] (SAA7280)
33		X						I ² C, PLL (1500) PIP modulo [L]
34 ¹⁾	X		X				X	LNC supply on SAT box [Q,R] not correct
35 ¹⁾	X		X		X		X	IM-bus on SAT box [Q,S] blocked.
36 ¹⁾	X		X	X			X	I ² C, bus on SAT box blocked.
37 ¹⁾	X		X	X	X		X	I ² C, IC7450, D2-MAC [S] (X24C02)
28 ¹⁾	X		X			X	X	I ² C, SAT Tuner [Q] (SF914; SF916)
39 ¹⁾	X		X		X	X	X	HEF STROBE 1, IC7925, FSS [T] (HEF4094)
40 ¹⁾	X		X	X		X	X	D2-MAC [S]
41 ¹⁾	X		X	X	X	X	X	HEF STROBE 2, IC7475, D2-MAC [S] (HEF4094)
42 ¹⁾	X				X		X	IC7250, TUNER/CONTROL [Q]
43 ¹⁾	X			X			X	UART bus blocked IC7250, TUNER/CONTROL [Q].
44 ¹⁾	X			X	X		X	SAT Tuner [Q] (SF914/916)
45 ¹⁾	X					X	X	IC7250, TUNER/CONTROL [Q]
46 ¹⁾	X				X	X	X	IC7250, TUNER/CONTROL [Q]
47 ¹⁾	X			X		X	X	IC7262, TUNER/CONTROL [Q]
48 ¹⁾	X			X	X	X	X	D2-MAC [S]
49 ¹⁾	X			X		X		EAROM X24C02 empty, 7450, D2-MAC [S] (§17)
51 ¹⁾					X	X	X	IC7250, TUNER/CONTROL [Q]
52 ¹⁾			X				X	D2B Bus EXT, SSP [H] blocked.
99	X		X		X			Protection

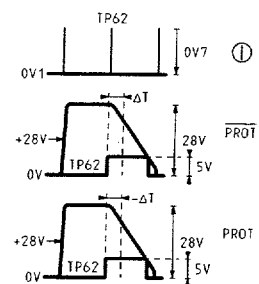
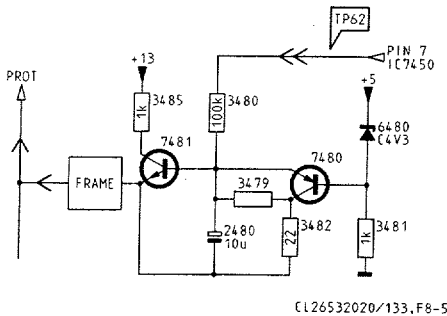
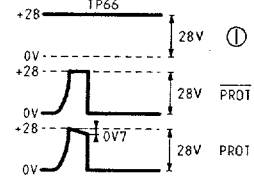
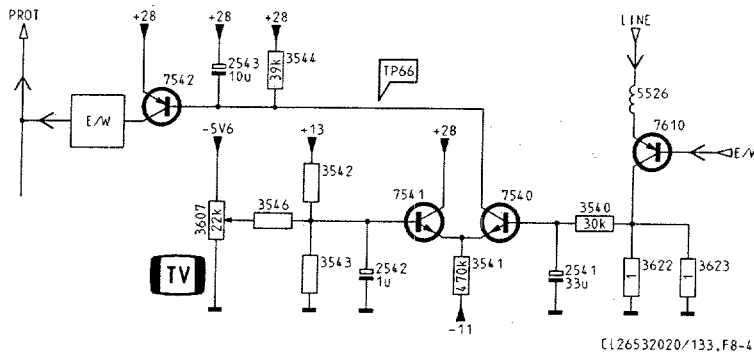
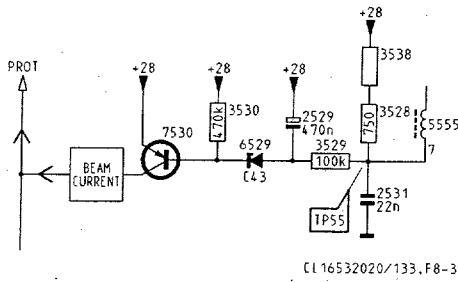
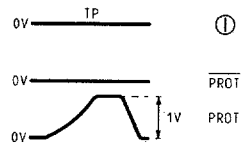
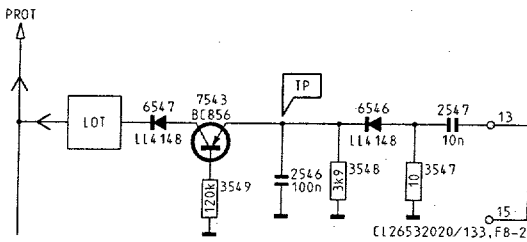
¹⁾ This error is only possible on sets with built in SAT box.

In case an error indication on the set is not included in this table, then check the error codes (see §7.8).

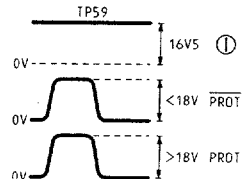
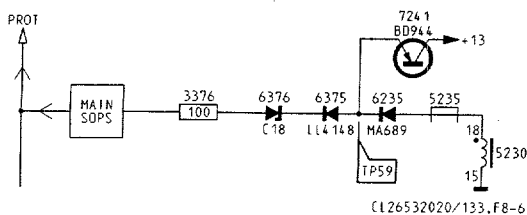
+ 11 V
- 11 V



EHT



+ V



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4. Servicing of SMDs (Surface Mounted Devices)

4.1 General cautions on handling and storage

- Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- Avoid using storage places that are sensitive to Oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.

The capacitance or resistance value of the SMDs may be affected by this.

- Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

4.2 Removal of SMDs

- Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:
- While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).
- Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

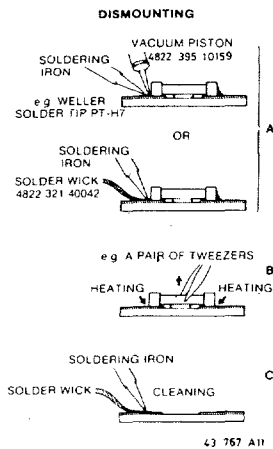


Fig 8.1

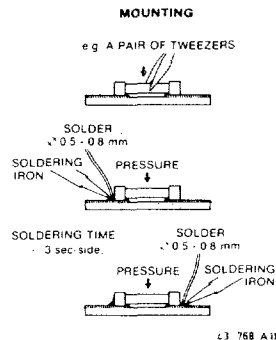


Fig 8.2

Caution on removal:

- When handling the soldering iron, use suitable pressure and be careful.
- When removing the chip, do not use undue force with the pair of tweezers.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- The chip, once removed, must **never** be reused.

4.3 Attachment of SMDs

- Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig.8.2A).
- Next complete the soldering of the terminals of the component (see Fig.8.2B).

Caution when attaching SMDs:

- When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.
- Keep the SMD's body in contact with the printed board when soldering.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- Soldering should not be done outside the solder land.
- Soldering flux (of rosin) may be used, but should not be acidic.
- After soldering, let the SMD cool down gradually at room temperature.
- The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig.8.3).

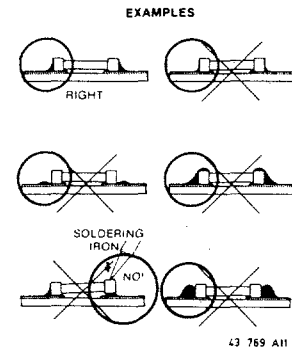
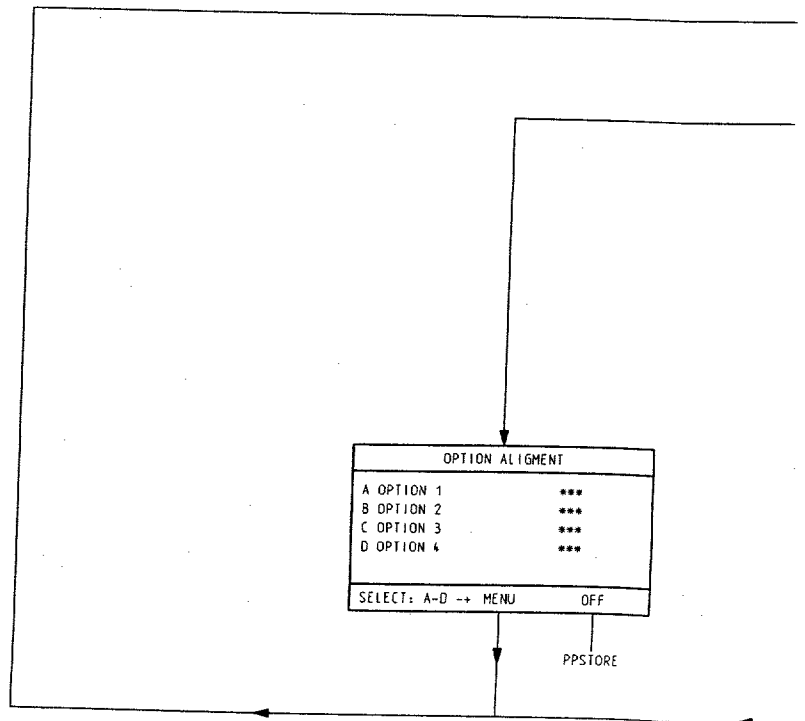
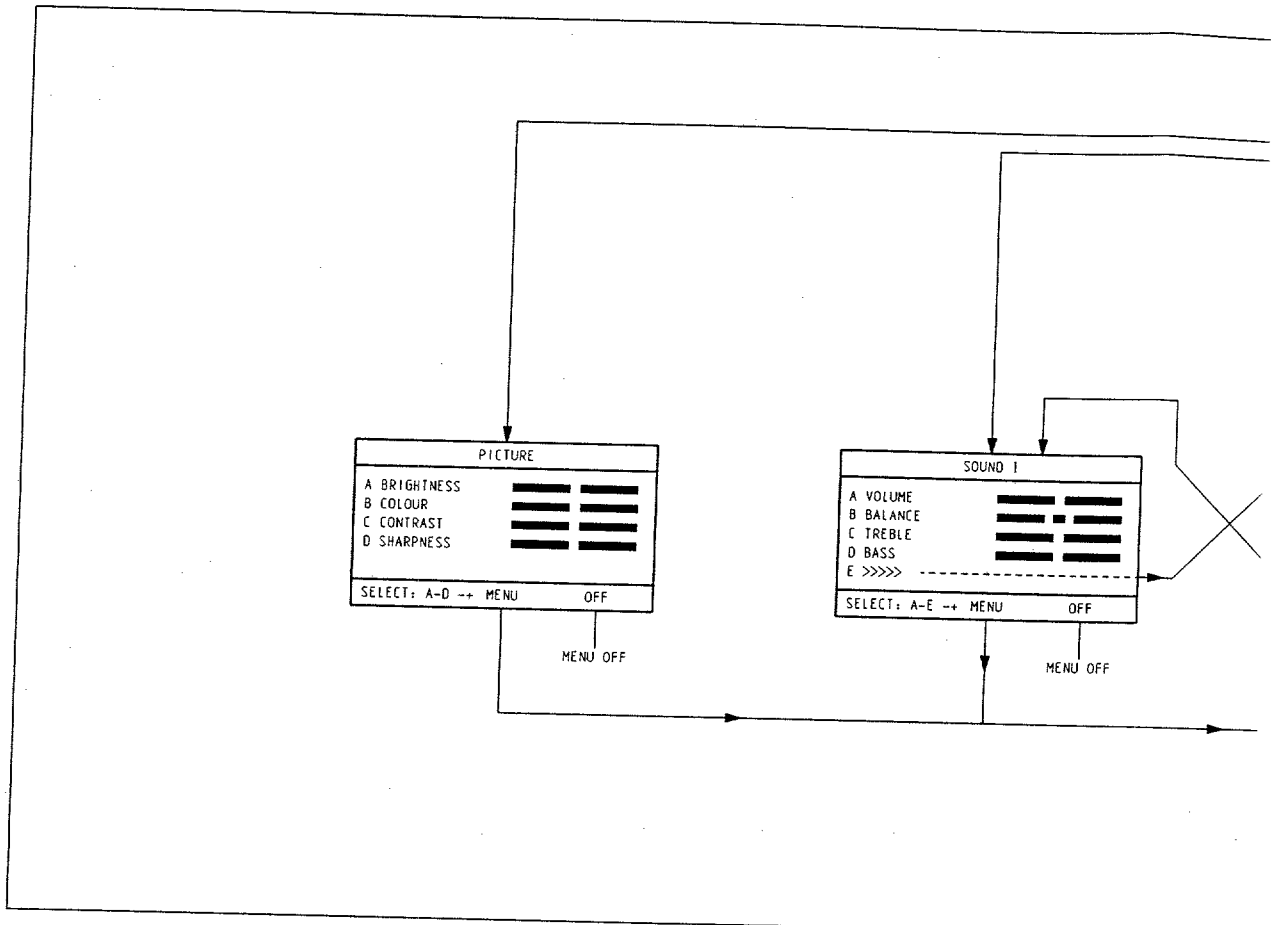


Fig 8.3

List of menus

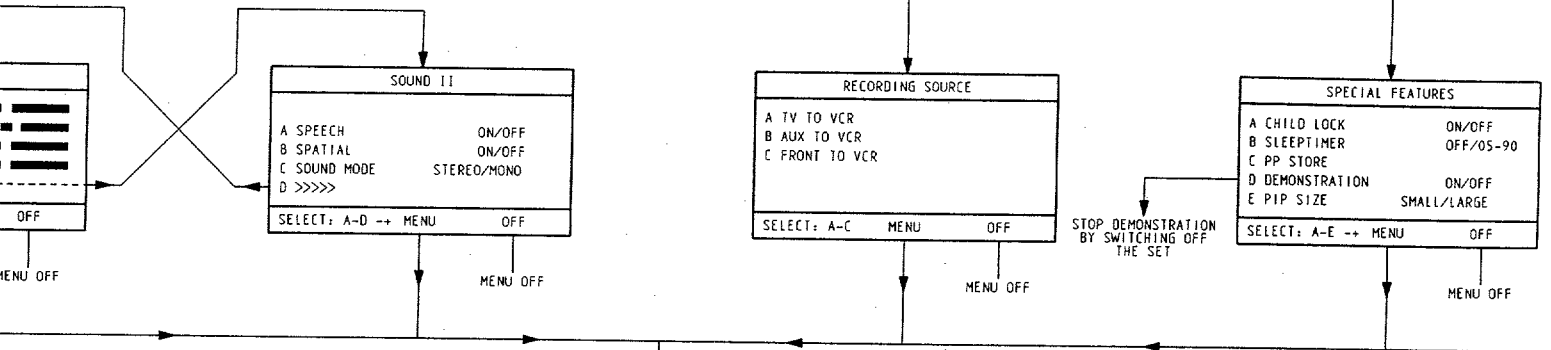


MAIN MENU

PRESS "MENU" ON THE REMOTE CONTROL

MAIN MENU	
A PICTURE	
B SOUND	
C RECORDING SOURCE	-----
D SPECIAL FEATURES	-----
E PROGRAMME LIST	
SELECT: A-E	OFF

MENU OFF

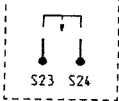


MENU

BACK TO MAIN MENU

SERVICE MENU

SSP



SERVICE 91-12-18	
A OPTION ALIGNMENT	
B WHITE DRIVE ALIGNMENT	
C CUT OFF ALIGNMENT	
D STORE	
SELECT: A-D	MENU OFF

PPSTORE

WHITE DRIVE ALIGNMENT	
A WHITE DRIVE GREEN	***
A WHITE DRIVE BLUE	***
SELECT: A-B --> MENU	OFF

PPSTORE

CUT OFF ALIGNMENT	
A CUT OFF GREEN	***
B CUT OFF BLUE	***
SELECT: A-B --> MENU	OFF

PPSTORE

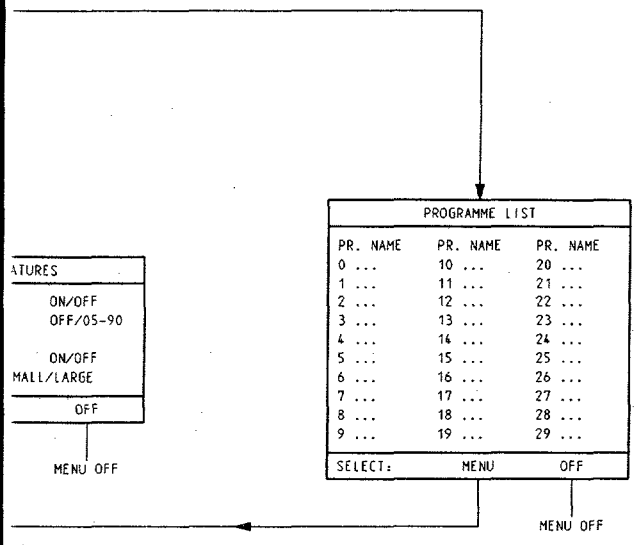
SERVICE STORED	
A OPTION ALIGNMENT	
B WHITE DRIVE ALIGNMENT	
C CUT OFF ALIGNMENT	
D STORE	
SELECT: A-D --> MENU	OFF

PPSTORE

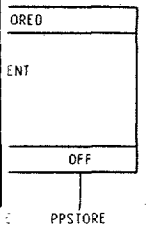
PPSTORE

OFF

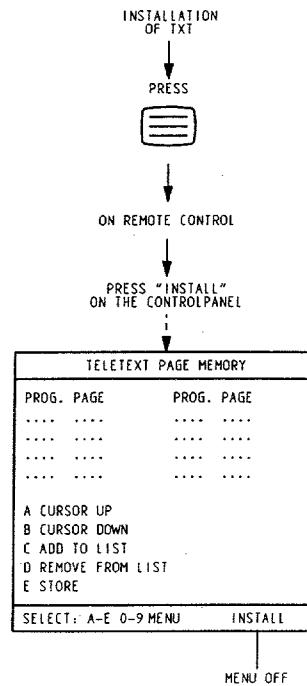
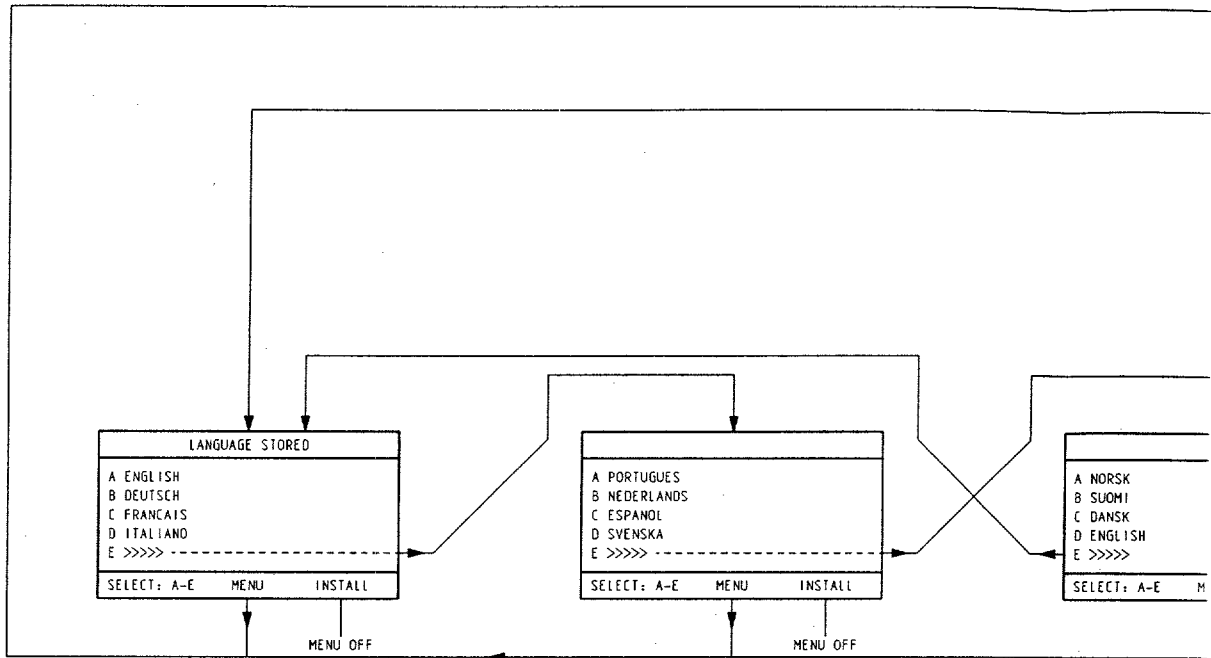
PPSTORE



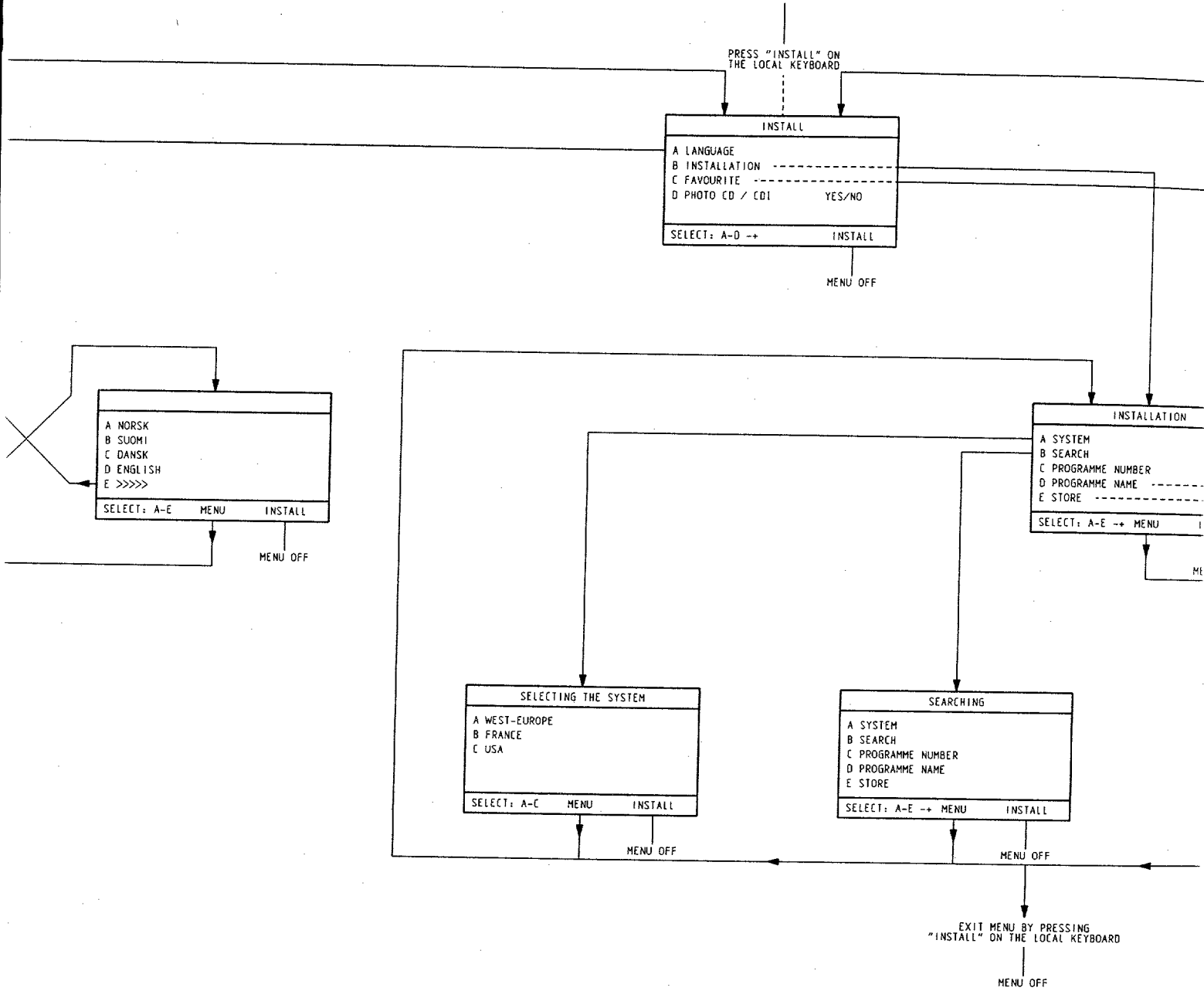
PROGRAMME LIST		
PR. NAME	PR. NAME	PR. NAME
0 ...	10 ...	20 ...
1 ...	11 ...	21 ...
2 ...	12 ...	22 ...
3 ...	13 ...	23 ...
4 ...	14 ...	24 ...
5 ...	15 ...	25 ...
6 ...	16 ...	26 ...
7 ...	17 ...	27 ...
8 ...	18 ...	28 ...
9 ...	19 ...	29 ...

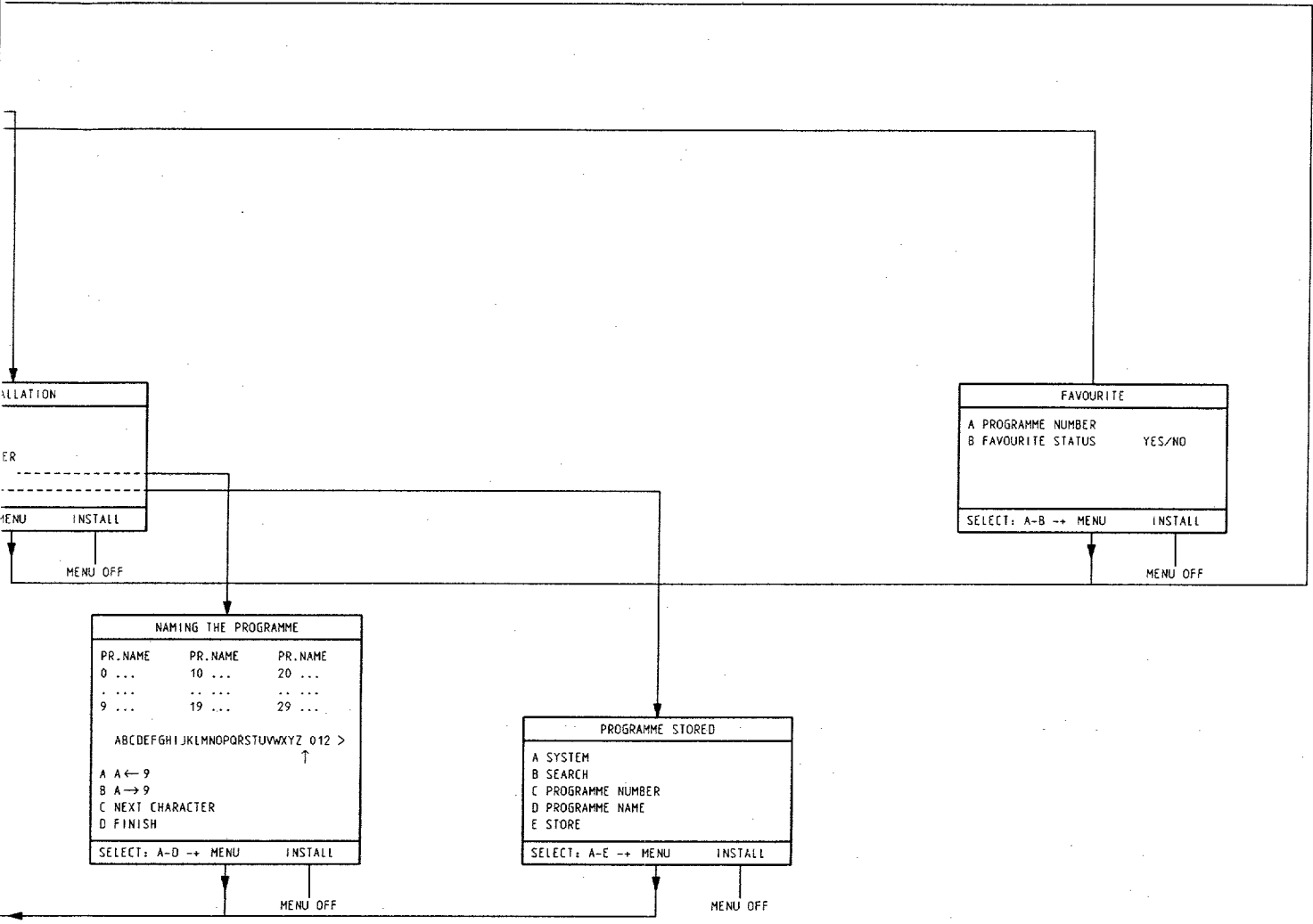


9.4 CHASSIS FL1.6 List of menus



INSTALLATION OF STATIONS





Small signal panel

7360	4822 130 42615	BC817-40
7365	4822 209 30837	TDA4650/V4/S1
7366	4822 209 63108	TDA4660/V2/S2
7390	4822 130 42513	BC858C
7395	4822 209 30394	TDA8443B/C1
7430	4822 209 63733	TDA4680/V5
7450	5322 130 42755	BC847C
7451	5322 130 42755	BC847C
7471	5322 130 42136	BC848C
7480	5322 130 44921	BD943
7600	4822 209 63967	TDA8417/V3
7620	4822 209 10263	4052B
7622	4822 209 10263	4052B
7630	4822 209 61115	LF353N
7630	4822 209 83163	LM833N
7635	4822 209 61115	LF353N
7635	4822 209 83163	LM833N
7660	5322 130 41982	BC848B
7661	5322 130 41982	BC848B
7662	5322 130 41982	BC848B
7680	4822 209 63734	TDA8425/V7
7704	4822 209 83163	LM833N
7706	5322 130 41982	BC848B
7708	5322 130 41983	BC858B
7730	5322 130 41982	BC848B
7732	5322 130 41983	BC858B

PIP panel

3631	4822 051 10101	100Ω 2% 0,25W
3632	4822 051 10102	1k 2% 0,25W
3633	4822 051 10104	100k 2% 0,25W
3634	4822 051 10104	100k 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
3997	4822 051 10101	100Ω 2% 0,25W
3997	4822 051 10829	82Ω 2% 0,25W

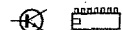
Jumpers

4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4017	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4022	4822 051 10008	0Ω 5% 0,25W
4024	4822 051 10008	0Ω 5% 0,25W
4025	4822 051 10008	0Ω 5% 0,25W
4026	4822 051 10008	0Ω 5% 0,25W
4027	4822 051 10008	0Ω 5% 0,25W
4028	4822 051 10008	0Ω 5% 0,25W
4029	4822 051 10008	0Ω 5% 0,25W
4046	4822 051 10008	0Ω 5% 0,25W
4048	4822 051 10008	0Ω 5% 0,25W
4300	4822 051 10008	0Ω 5% 0,25W
4403	4822 051 10008	0Ω 5% 0,25W
4404	4822 051 10008	0Ω 5% 0,25W
4415	4822 051 10008	0Ω 5% 0,25W
4417	4822 051 10008	0Ω 5% 0,25W
4418	4822 051 10008	0Ω 5% 0,25W
4419	4822 051 10008	0Ω 5% 0,25W
4420	4822 051 10008	0Ω 5% 0,25W
4421	4822 051 10008	0Ω 5% 0,25W
4631	4822 051 10008	0Ω 5% 0,25W
4632	4822 051 10008	0Ω 5% 0,25W
4633	4822 051 10008	0Ω 5% 0,25W
4634	4822 051 10008	0Ω 5% 0,25W

5118	4822 157 60435	10,3μH 6%
5155	4822 157 60433	7,2μH 6%
5157	4822 157 60434	9,4μH 6%
5170	4822 157 60432	10,3μH
5175	4822 157 60432	10,3μH
5190	4822 157 60432	10,3μH
5400	4822 157 50943	12μH 10%
5402	4822 157 50943	12μH 10%
5403	4822 157 52333	100μH
5406	4822 157 50943	12μH 10%
5408	4822 157 50943	12μH 10%
5410	4822 157 50943	12μH 10%



6300	4822 130 80906	LLZ-C7V5
6301	4822 130 80446	LL4148



7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B

7125	4822 209 63927	TDA4554/V1
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41982	BC848B
7234	5322 130 41982	BC848B
7235	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2R
7410	4822 209 63644	SDA9086-3
7466	4822 209 73852	PMBT2369
7610	4822 209 30393	TDA8349A/N3
7630	4822 209 30395	SAA1300AQ/N6
7755	4822 209 72363	TDA2579A/N8

PIP panel

Connectors

4822 212	PIP panel
4822 212	PIP panel
4822 265 40503	5P female gold plated
4822 265 40472	10P female gold plated
4822 265 20509	2P male grey
4822 265 20511	2P male blue
4822 265 30828	5P male

Various parts

1155	4822 320 40284	delay line DL711G
1201	4822 242 70304	cryst. 8,867 238 MHz
1212	4822 242 70736	cryst. 7,159 090 MHz
600	4822 210 10392	UV916E
610	4822 242 80275	OFWG3962

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2103	4822 126 10324	33pF 63V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31767	150pF 5% 50V
2120	4822 122 31807	1200pF 5% 50V

2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 121 42408	220nF 5% 63V
2161	4822 121 41854	150nF 5% 63V

2162	4822 122 31947	100nF 20% 63V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V

2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1nF 2% 63V

2196	4822 122 33105	56nF 10% 63V
2197	4822 122 31385	22pF 50V
2201	4822 122 31746	1nF 2% 63V
2202	4822 125 50045	20pF trim.
2211	4822 122 31746	1nF 2% 63V

2212	4822 125 50045	20pF trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 41578	6,8µF 20% 50V

2232	5322 124 41431	22µF 20% 35V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 31947	100nF 20% 63V

2250	4822 121 41738	270nF 5% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 31947	100nF 20% 63V
2270	4822 122 31947	100nF 20% 63V

2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF

2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF

2390	4822 122 31947	100nF 20% 63V
2399	4822 122 31746	1nF 2% 63V
404	4822 122 31965	220pF 5% 63V
405	4822 122 32862	10nF 80% 50V

2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31769	18pF 5% 50V
2414	4822 122 32862	10nF 80% 50V
2415	4822 122 32765	820pF 10% 63V
2430	4822 122 31947	100nF 20% 63V

2432	4822 122 31947	100nF 20% 63V
2434	4822 122 31947	100nF 20% 63V
2438	4822 121 41857	10nF 5% 250V
2439	4822 121 41856	22nF 5% 250V
2440	4822 122 31965	220pF 5% 63V

2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 31947	100nF 20% 63V
2448	4822 122 31947	100nF 20% 63V
2450	4822 122 32856	8,2nF 10% 63V

2451	4822 122 31981	33nF 5% 50V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470µF 10V
2466	4822 122 31947	100nF 20% 63V
2470	4822 124 40196	220µF 20% 16V

2604	4822 124 40195	150µF 20% 16V
2614	4822 124 41506	47µF 20% 16V
2615	4822 124 41576	2,2µF 20% 50V
2616	4822 122 32927	220nF
2618	4822 122 32442	10nF 50V

2619	4822 124 40849	330µF 20% 16V
2620	4822 122 32442	10nF 50V
2621	4822 122 31797	22nF 10% 63V
2622	4822 122 31947	100nF 20% 63V
2623	4822 122 31797	22nF 10% 63V

2627	4822 122 32927	220nF
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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 051 10103	10k 2% 0,25W
3107	4822 051 10103	10k 2% 0,25W

3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W

3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 050 11002	1k 1% 0,4W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W

3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W

3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	0Ω 5% 0,25W
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10302	3k 2% 0,25W

3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10152	1k5 2% 0,25W
3233	4822 051 10112	1k1 2% 0,25W
3234	4822 051 10202	2k 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W

3236	4822 051 10511	510Ω 2% 0,25W
3237	4822 051 10153	15k 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10302	3k 2% 0,25W

3242	4822 050 11002	1k 1% 0,4W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W

3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10472	4k7 2% 0,25W
3337	4822 116 52207	1k2 5% 0,5W
3338	4822 051 10332	3k3 2% 0,25W

3340	4822 051 10202	2k 2% 0,25W
3341	4822 111 41424	22Ω 5% 0,3W
3345	4822 111 41424	22Ω 5% 0,3W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W

3376	4822 051 10102	1k 2% 0,25W
3377	4822 051 10102	1k 2% 0,25W
3378	4822 051 10102	1k 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W

3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W

3405	4822 051 10271	270Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10361	360Ω 2% 0,25W
3412	4822 051 10391	390Ω 2% 0,25W
3414	4822 051 10101	100Ω 2% 0,25W

3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 1047347k	2% 0,25W
3436	4822 051 1047347k	2% 0,25W
3437	4822 051 10101100k	2% 0,25W
3438	4822 051 1051351k	2% 0,25W

3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W

3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52224	470Ω 5% 0,5W

3462	4822 051 10333	33k 2% 0,25W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3467	4822 116 52256	2k2 5% 0,5W
3471	4822 051 10103	10k 2% 0,25W

3472	4822 051 10224	220k 2% 0,25W
3473	4822 051 10102	1k 2% 0,25W
3473	4822 051 10008	0Ω 5% 0,25W
3600	4822 051 10103	10k 2% 0,25W
3601	4822 051 10103	10k 2% 0,25W

3602	4822 051 10101	100Ω 2% 0,25W
3603	4822 051 10101	100Ω 2% 0,25W
3604	4822 052 10158	1k5 5% 0,33W
3605	4822 051 10223	22k 2% 0,25W
3610	4822 100 11319	4k7 30% LIN

3611	4822 051 10332	3k3 2% 0,25W
3612	4822 051 10272	2k7 2% 0,25W
3613	4822 051 10103	10k 2% 0,25W
3614	4822 051 10123	1k2 2% 0,25W
3615	4822	

Picture tube panel

Various parts

1030	4822 212 23711	PTP 25"-28"
1030	4822 212 23953	PIP 33"
	4822 265 20509	2P male grey
	4822 265 40596	2P male
	4822 267 40985	6P male
	4822 290 40295	7P male
	4822 492 70788	spring fix IC
	4822 255 70261	picture tube socket



2700	4822 122 33496	100nF 10% 63V
2701	4822 122 32507	6,8pF 5% 50V
2703	4822 122 33125	180pF 10% 63V
2704	4822 124 42182	3,3μF 20% 250V
2705	4822 124 40272	33μF 20% 16V

2706	4822 122 31797	22nF 10% 63V
2707	4822 121 51562	33nF 10% 1600V
2708	5322 122 31842	330pF 5% 63V
2709	4822 122 31825	27pF 10% 50V
2710	4822 122 31774	56pF 5% 50V

2711	4822 122 32507	6,8pF 5% 50V
2712	4822 126 11175	22pF 5% 50V
2713	4822 121 41156	68nF 10% 250V
2715	4822 121 41156	68nF 10% 250V
2716	4822 122 31797	22nF 10% 63V

2717	4822 121 41156	68nF 10% 250V
2720	4822 122 31774	56pF 5% 50V
2721	4822 122 32507	6,8pF 5% 50V
2726	4822 122 31797	22nF 10% 63V
2730	4822 122 31774	56pF 5% 50V

2731	5322 122 31647	1nF 10% 63V
2741	5322 122 31647	1nF 10% 63V
2751	5322 122 31647	1nF 10% 63V
2760	4822 122 31174	2,7nF 10% 500V



3537	4822 052 11128	1Ω 5% 0,5W
3700	4822 051 10182	1k8 2% 0,25W
3701	4822 051 10101	100Ω 2% 0,25W
3702	4822 051 10102	1k 2% 0,25W
3704	4822 051 10272	2k7 2% 0,25W

3705	4822 051 10332	3k3 2% 0,25W
3706	4822 050 21504	150k 1% 0,6W
3708	4822 111 50518	1k5 5% 0,5W
3710	4822 051 10008	0Ω 5% 0,25W
3711	4822 051 10101	100Ω 2% 0,25W

3712	4822 051 10272	2k7 2% 0,25W
3714	4822 051 10272	2k7 2% 0,25W
3715	4822 051 10332	3k3 2% 0,25W
3716	4822 050 21504	150k 1% 0,6W
3718	4822 111 50518	1k5 5% 0,5W

3719	4822 051 10008	0Ω 5% 0,25W
3720	4822 051 10823	82k 2% 0,25W
3721	4822 051 10101	100Ω 2% 0,25W
3724	4822 051 10272	2k7 2% 0,25W
3725	4822 051 10332	3k3 2% 0,25W

3726	4822 050 21204	120k 1% 0,6W
3727	4822 111 50518	1k5 5% 0,5W
3728	4822 111 50518	1k5 5% 0,5W
3730	4822 111 50518	1k5 5% 0,5W
3731	4822 052 10279	27Ω 5% 0,33W

3733	4822 052 10189	18Ω 5% 0,33W
3734	4822 051 10114	110k 2% 0,25W
3735	4822 051 10103	10k 2% 0,25W
3736	4822 051 10333	33k 2% 0,25W
3737	4822 051 10203	20k 2% 0,25W

3738	4822 116 52304	82k 5% 0,5W
3739	4822 116 52188	27Ω 5% 0,5W
3739	4822 116 52193	39Ω 5% 0,5W
3740	4822 051 10114	110k 2% 0,25W
3741	4822 051 10124	120k 2% 0,25W

3742	4822 051 10333	33k 2% 0,25W
3743	4822 051 10333	33k 2% 0,25W
3761	4822 051 10152	1k5 2% 0,25W
3761	4822 051 10332	3k3 2% 0,25W

Jumpers

4701	4822 051 10008	0Ω 5% 0,25W
4702	4822 051 10008	0Ω 5% 0,25W
4703	4822 051 10008	0Ω 5% 0,25W
4709	4822 051 10008	0Ω 5% 0,25W
4714	4822 051 10008	0Ω 5% 0,25W

4743	4822 051 10008	0Ω 5% 0,25W
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5700	4822 157 60155	33μH 7,5%
5701	4822 157 60155	33μH 7,5%



6700	4822 130 80879	LLZ-C3V0
6701	4822 130 80877	BAV103
6702	4822 130 80877	BAV103
6703	4822 130 80877	BAV103
6704	4822 130 80877	BAV103

6705	4822 130 80877	BAV103
6706	4822 130 80877	BAV103
6707	4822 130 82345	LLZ-C22
6708	4822 130 30842	BAV21
6709	4822 130 30842	BAV21

6711	4822 130 30842	BAV21
6712	4822 130 80877	BAV103
6713	4822 130 80877	BAV103
6714	4822 130 32896	BYD33M
6715	4822 130 82969	BZD23-C24



7704	4822 130 60373	BC856B
7705	4822 209 63898	TDA6111Q/N1
7705	4822 209 30417	TDA6111Q/N2
7706	4822 209 63898	TDA6111Q/N1

7706	4822 209 30417	TDA6111Q/N2
7707	4822 209 63898	TDA6111Q/N1
7707	4822 209 30417	TDA6111Q/N2

7708	4822 130 41646	BF423
7709	4822 130 41646	BF423
7710	4822 130 41646	BF423

10.14 CHASSIS FL 1.6 Spare parts list / Stückliste / Liste

NICAM sound module

Various parts

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

Various parts

1001	4822 242 81128	cryst. 17.470 MHz
1002	4822 242 72301	filter TH316BOM-20800DAF
1002	4822 242 72303	filter TH316BQM
1003	4822 242 81126	cryst. 11.170 MHz
1003	4822 242 81127	cryst. 13.100 MHz
1106	4822 242 72303	filter TH316BQM

2000	4822 122 31947	100nF 20% 63V
2001	4822 124 40433	47µF 20% 25V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31797	22nF 10% 63V
2004	4822 122 31768	180pF 5% 50V

2005	4822 122 31768	180pF 5% 50V
2006	5322 122 31842	330pF 5% 63V
2007	4822 122 32597	6.8nF 10% 63V
2008	4822 122 31767	150pF 5% 50V
2009	4822 122 32442	10nF 50V

2010	4822 122 31767	150pF 5% 50V
2011	4822 122 31766	120pF 5% 50V
2012	4822 121 41854	150nF 5% 63V
2013	4822 122 31746	1nF 2% 63V
2014	4822 122 32442	10nF 50V

2015	4822 125 50045	20pF trim.
2016	4822 122 31961	68pF 5% 63V
2017	4822 121 42408	220nF 5% 63V
2018	4822 122 32442	10nF 50V
2019	4822 122 31797	22nF 10% 63V

2020	4822 124 40433	47µF 20% 25V
2021	4822 122 31782	15nF 10% 50V
2021	4822 122 32856	8,2nF 10% 63V
2022	4822 122 31981	33nF 5% 50V
2022	4822 122 31759	18nF

2023	4822 122 31981	33nF 5% 50V
2023	4822 122 31759	18nF
2024	4822 122 31782	15nF 10% 50V
2024	4822 122 32856	8,2nF 10% 63V
2025	4822 122 31797	22nF 10% 63V

2026	4822 124 40433	47µF 20% 25V
2027	4822 122 31773	560pF 5% 50V
2028	4822 126 10171	2,7nF 5% 50V
2029	4822 122 32999	2,2nF 5% 50V
2030	4822 122 32999	2,2nF 5% 50V

2031	4822 126 10171	2,7nF 5% 50V
2032	4822 122 31773	560pF 5% 50V
2033	4822 126 11492	220nF 10% 63V
2034	4822 126 11492	220nF 10% 63V
2035	4822 122 31746	1nF 2% 63V

2036	4822 122 32442	10nF 50V
2037	4822 122 32442	10nF 50V
2038	4822 122 31797	22nF 10% 63V
2039	4822 126 11691	150nF 10% 63V
2040	4822 122 33669	150nF 20% 50V

2041	5322 122 31647	1nF 10% 63V
2042	4822 126 10183	330pf 10% 63V
2043	5322 122 31647	1nF 10% 63V
2044	5322 122 31647	1nF 10% 63V
2050	4822 124 40433	47µF 20% 25V

2051	5322 122 31647	1nF 10% 63V
2245	5322 122 31647	1nF 10% 63V
2246	5322 122 31647	1nF 10% 63V



3000	4822 051 10471	470Ω 2% 0,25W
3002	4822 051 10332	3k3 2% 0,25W
3003	4822 051 10332	3k3 2% 0,25W
3004	4822 051 10104	100k 2% 0,25W
3005	4822 051 10823	82k 2% 0,25W

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

3012	4822 053 20106	10M 5% 0,25W
3013	4822 051 10824	820k 2% 0,25W
3014	4822 051 10103	10k 2% 0,25W
3015	4822 051 10682	6k8 2% 0,25W
3015	4822 051 10123	12k 2% 0,25W

3016	4822 051 10122	1k2 2% 0,25W
3016	4822 051 20222	2k2 5% 0,1W
3017	4822 051 10122	1k2 2% 0,25W
3017	4822 051 20222	2k2 5% 0,1W
3018	4822 051 10682	6k8 2% 0,25W

3018	4822 051 10123	12k 2% 0,25W
3019	4822 051 10752	7k5 2% 0,25W
3019	4822 051 10562	5k6 2% 0,25W
3020	4822 051 10472	4k7 2% 0,25W
3021	4822 051 10472	4k7 2% 0,25W

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

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

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

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

Jumpers

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

4054	4822 051 10008	0Ω 5% 0,25W
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 51235	4,7µH 10%
5003	4822 157 51235	4,7µH 10%



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



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

Spare parts list / Stückliste / Liste

CHASSIS

Y/C detector

Various parts

1021	4822 212 23929	Y/C detector panel
	4822 265 40503	5P female gold plated
	4822 265 30431	3P female gold plated

Various parts

1231	4822 242 80364	filter 4,43MHz
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2225	4822 124 40196	220µF 20% 16V
2226	4822 122 32927	220nF
2228	4822 122 32927	220nF
2235	4822 122 31965	220pF 5% 63V
2236	4822 122 31772	47pF 5% 50V
2237	4822 122 32142	270pF 5% 63V
2238	4822 122 31768	180pF 5% 50V
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 5% 50V
2261	4822 124 20678	47µF 10% 10V
2262	4822 122 31767	150pF 5% 50V
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
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7226	5322 130 41983	BC858B
7228	5322 130 41982	BC848B
7262	5322 130 41983	BC858B
7263	5322 130 41982	BC848B
7264	4822 130 42353	BFS19
7266	5322 130 42136	BC848C
7267	4822 130 42513	BC858C
7274	5322 130 42136	BC848C
7275	4822 130 42513	BC858C
7276	5322 130 41983	BC858B
7277	5322 130 41982	BC848B
7278	5322 130 41982	BC848B