

Service  
Service  
Service

**FL 1.1** AC  
**FL 1.7** AA

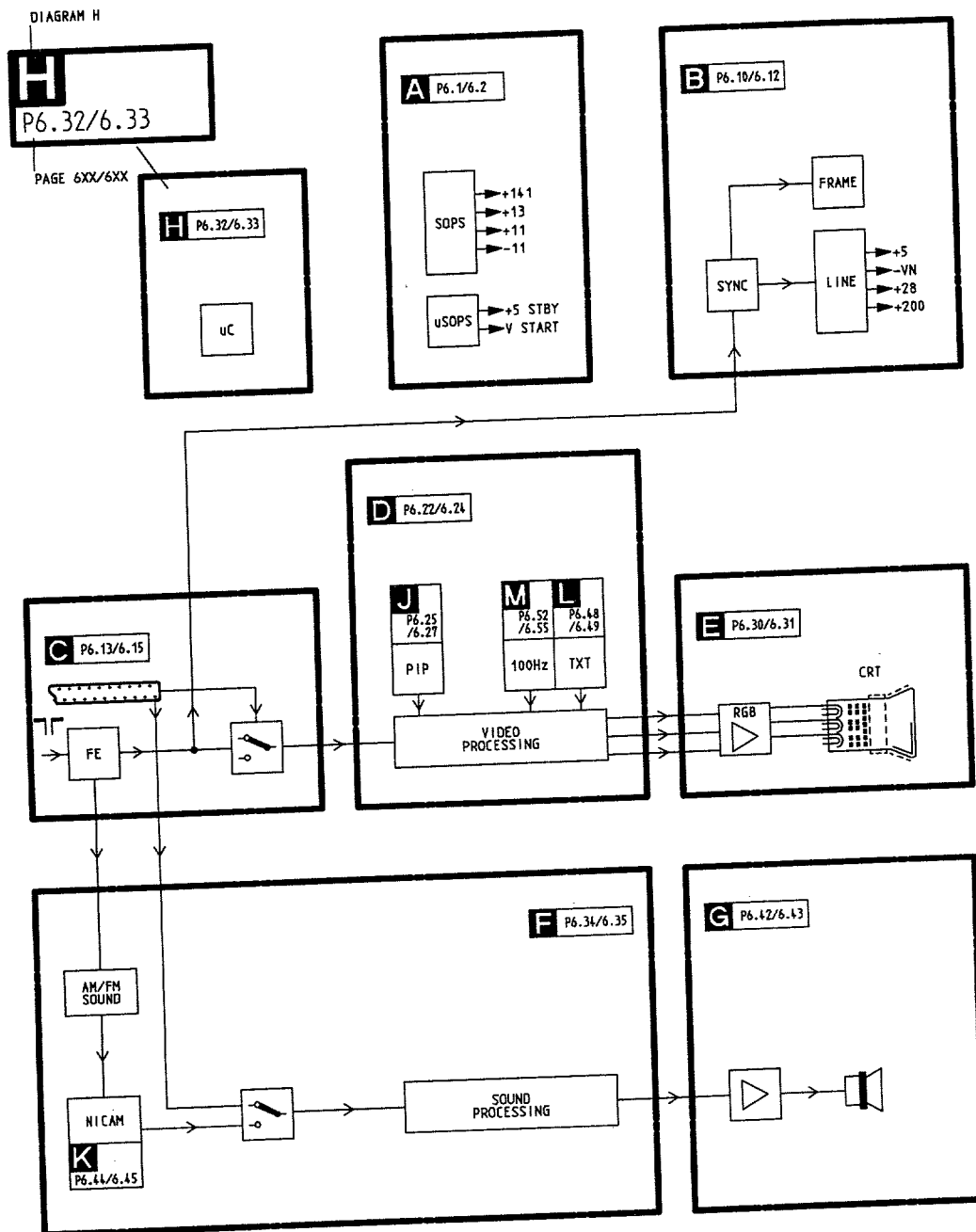
# Service Manual

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## 1.2 CHASSIS FL1.1 Block diagram

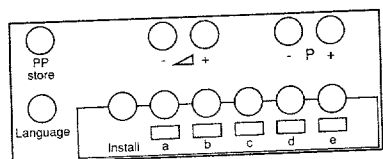


### Technical data

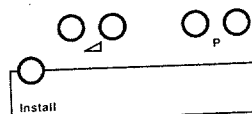
|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Mains voltage                            | : 220 - 240 V ( $\pm 10\%$ )         |
|                                          | : 50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

|                |                  |
|----------------|------------------|
| Programmes     | : 0 - 59         |
| VCR programmes | : 0, 00, 50 - 59 |

### Local operation functions:



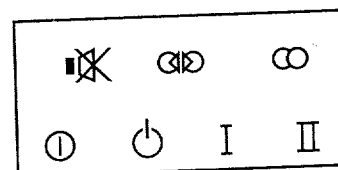
FL1.1



FL1.7

### Indications:

- On Screen Display (OSD)
- LED:

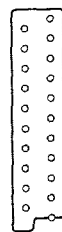


## 1. Specification of the connectors

### EXT1 (AUX)

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

### EXT2 (VCR)

|                                                                                   |                  |                                                     |
|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------|
|  | 1 -Audio         | → R (0,5V <sub>RMS</sub> ≤ 1kΩ)                     |
|                                                                                   | 2 -Audio         | → R (0,2 - 2V <sub>RMS</sub> ≥ 10kΩ)                |
|                                                                                   | 3 -Audio         | → L (0,5V <sub>RMS</sub> ≤ 1kΩ)                     |
|                                                                                   | 4 -Audio         | ⊥                                                   |
|                                                                                   | 5 -              |                                                     |
|                                                                                   | 6 -Audio         | → L (0,2 - 2V <sub>RMS</sub> ≥ 10kΩ)                |
|                                                                                   | 7 --             |                                                     |
|                                                                                   | 8 -CVBS-status 2 | → 0-2V: int<br>4,5-7V: ext 16:9<br>9,5-12V: ext 4:3 |
|                                                                                   | 9 --             |                                                     |
|                                                                                   | 10 --            |                                                     |
|                                                                                   | 11 --            |                                                     |
|  | 12 --            |                                                     |
|                                                                                   | 13 --            |                                                     |
|                                                                                   | 14 --            |                                                     |
|                                                                                   | 15 --            |                                                     |
|                                                                                   | 16 --            |                                                     |
|                                                                                   | 17 -CVBS         | ⊥                                                   |
|                                                                                   | 18 -CVBS         | ⊥                                                   |
|                                                                                   | 19 -CVBS         | → (1V <sub>pp</sub> /75Ω)                           |
|                                                                                   | 20 -CVBS         | → (1V <sub>pp</sub> /75Ω)                           |
|                                                                                   | 21 -Earthscreen  |                                                     |

### EXT3 (front)

|                                                                                     |       |                              |
|-------------------------------------------------------------------------------------|-------|------------------------------|
| SVHS <sup>1)</sup>                                                                  | 1 -   | ⊥                            |
|  | 2 -   | ⊥                            |
|                                                                                     | 3 - Y | → (1V <sub>pp</sub> ; 75Ω)   |
|                                                                                     | 4 - C | → (0,3V <sub>pp</sub> ; 75Ω) |

- ⊙ CINCH Video → 300mV<sub>pp</sub>/75Ω<sup>1)</sup>
- ⊙ CINCH Audio → L (0,5V<sub>RMS</sub>; ≥ 10kΩ)<sup>1)</sup>
- ⊙ CINCH Audio → R (0,5V<sub>RMS</sub>; ≥ 10kΩ)<sup>1)</sup>

⊙  32-2000Ω ≥ 10mW

### Audio out (rear)

- ⊙ CINCH Audio → L (0,5V<sub>RMS</sub>; ≤ 1kΩ)
- ⊙ CINCH Audio → R (0,5V<sub>RMS</sub>; ≤ 1kΩ)



front : 2 x 16W / 8Ω<sup>1)</sup>  
rear : 2 x 6W / 8Ω<sup>1)</sup>

### EXT2 (SVHS) (rear)

|                                                                                     |       |                              |
|-------------------------------------------------------------------------------------|-------|------------------------------|
| SVHS                                                                                | 1 -   | ⊥                            |
|  | 2 -   | ⊥                            |
|                                                                                     | 3 - Y | → (1V <sub>pp</sub> ; 75Ω)   |
|                                                                                     | 4 - C | → (0,3V <sub>pp</sub> ; 75Ω) |

- ⊙ CINCH Audio → L (0,5V<sub>RMS</sub>; ≥ 10kΩ)
- ⊙ CINCH Audio → R (0,5V<sub>RMS</sub>; ≥ 10kΩ)

|                                                                                     |       |                              |
|-------------------------------------------------------------------------------------|-------|------------------------------|
| SVHS <sup>1)</sup>                                                                  | 1 -   | ⊥                            |
|  | 2 -   | ⊥                            |
|                                                                                     | 3 - Y | → (1V <sub>pp</sub> ; 75Ω)   |
|                                                                                     | 4 - C | → (0,3V <sub>pp</sub> ; 75Ω) |

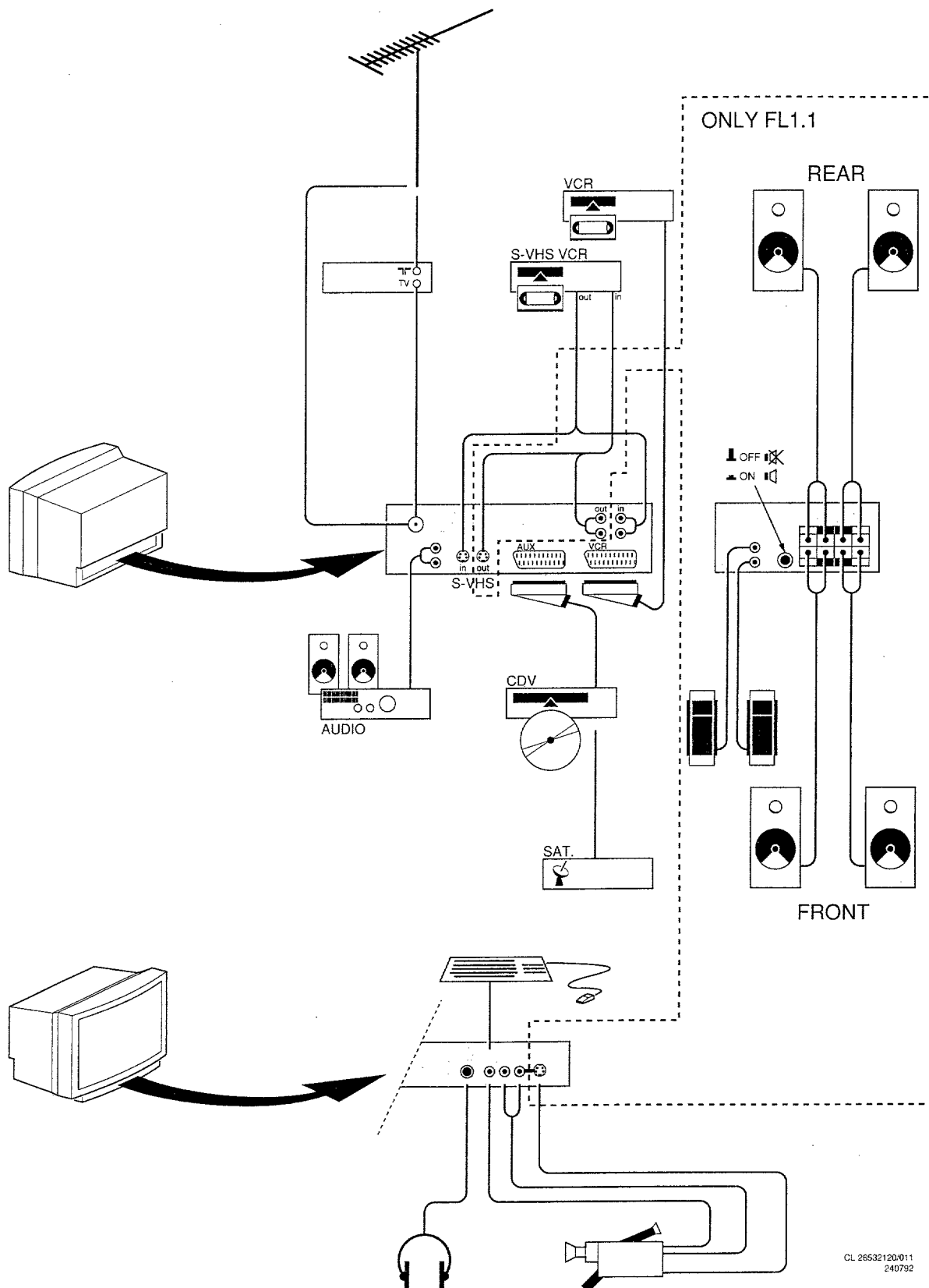
- ⊙ CINCH Audio → L (0,5V<sub>RMS</sub>; ≤ 1kΩ)<sup>1)</sup>
- ⊙ CINCH Audio → R (0,5V<sub>RMS</sub>; ≤ 1kΩ)<sup>1)</sup>

<sup>1)</sup> Only for FL1.1.

## 2.2 CHASSIS FL1.1 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.



CL 26532120/011  
240792

## 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.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is 0V (after approx. 30s).
3. **ESD**   
All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten the life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools.  
This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.  
**The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 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 FL1.1

3.1

4.1

1. The direct voltages and oscillograms should be measured with regard to the tuner earth ( $\perp$ ), or hot earth ( $\perp$ ) as this is called.
2. The direct voltages and oscillograms shown in the diagrams should be measured in the Service Default Mode (see chapter 8) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz.
3. Where necessary, the oscillograms and direct voltages are measured with ( $\neg$ ) and without aerial signal ( $\times$ ). Voltages in the power supply section are measured both for normal operation ( $\textcircled{1}$ ) and in standby ( $\textcircled{0}$ ). 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

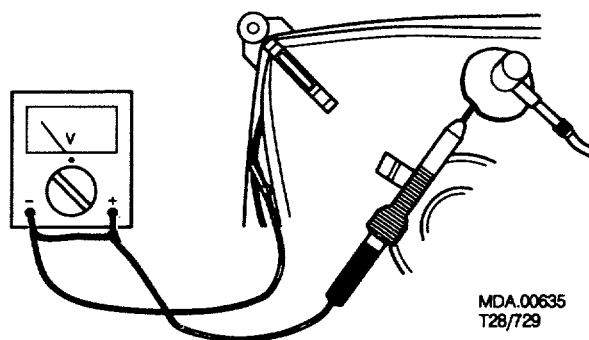


fig. 3.1

## Mechanical instructions

### 1. Removing the back plate (Fig. 4.1)

Remove cover A from the back plate.  
Remove connector B (L36) 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.

### 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.

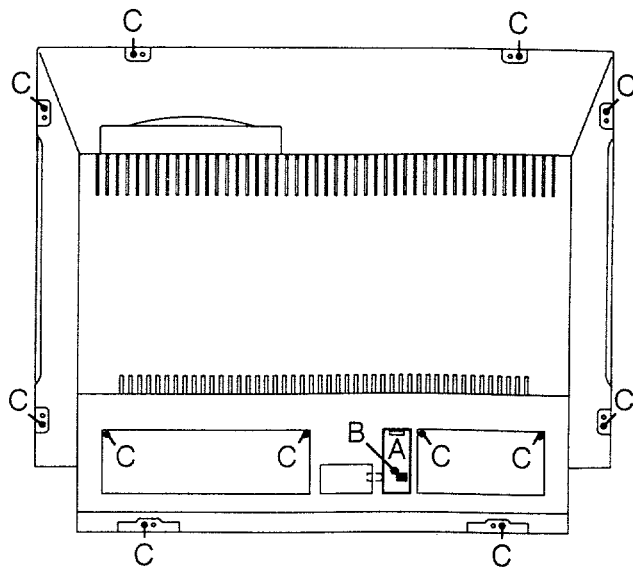


Fig. 4.1

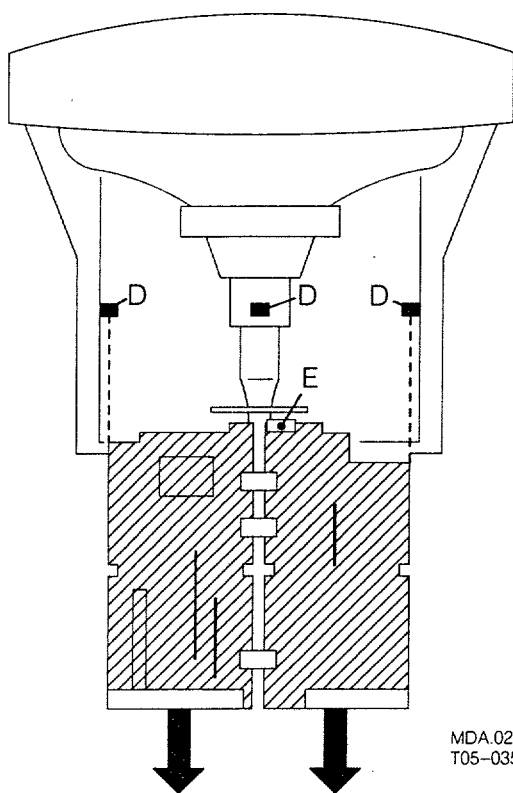
MDA.02803  
T05-035

Fig. 4.2

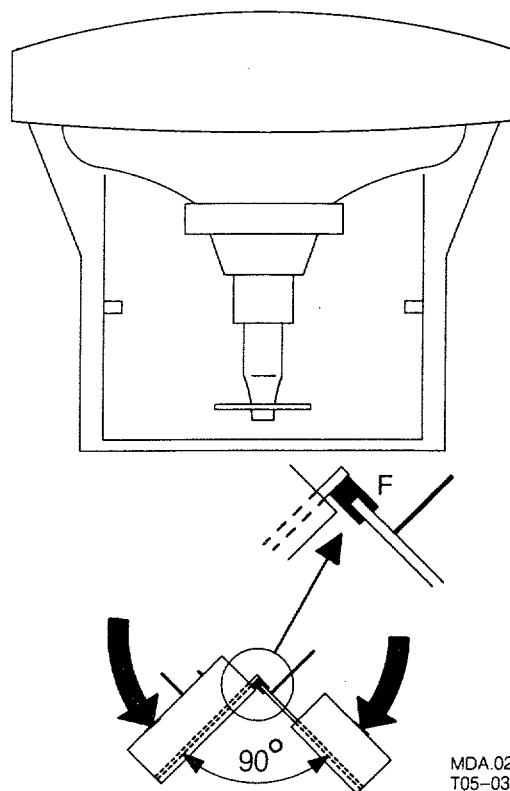
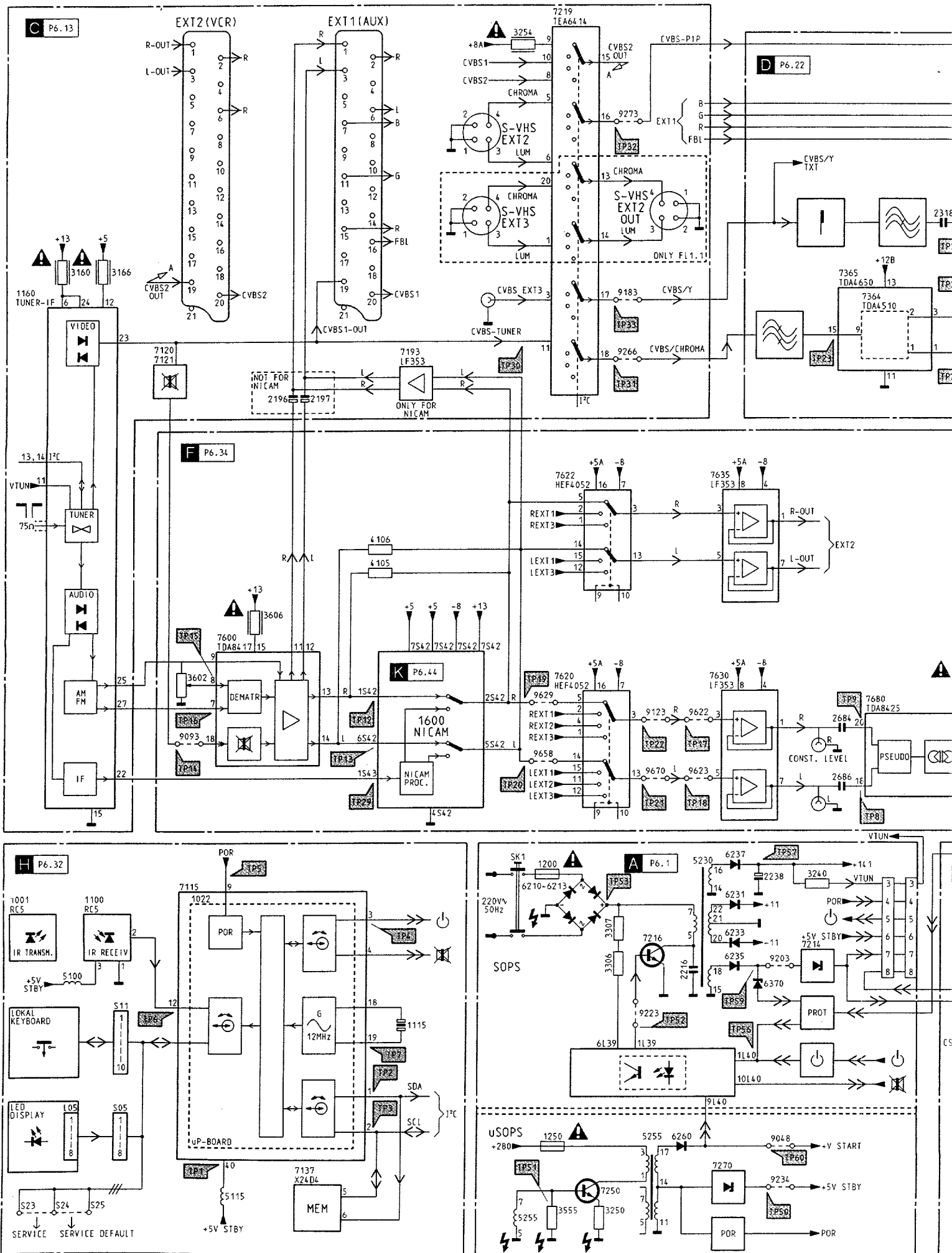
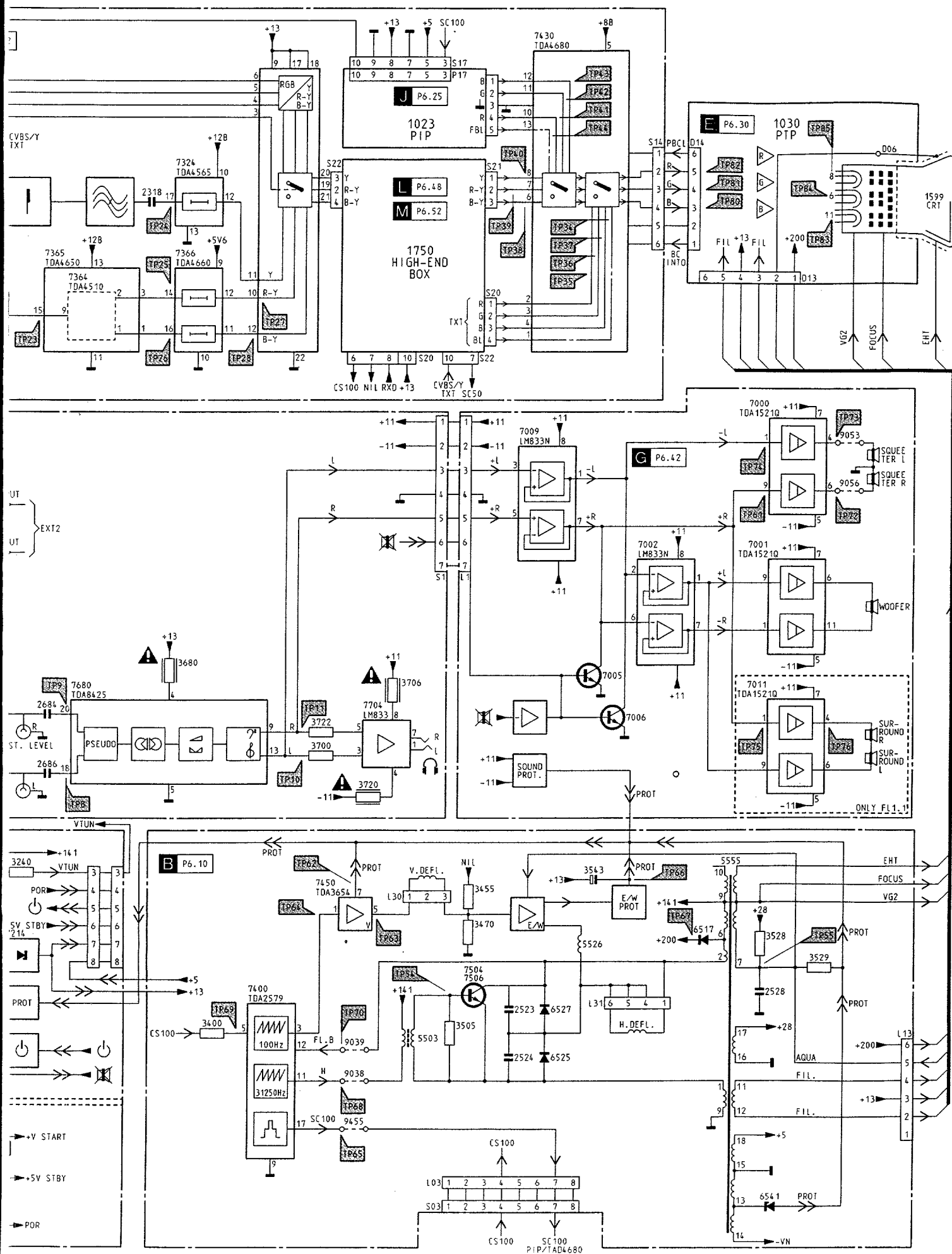
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T05-035

Fig. 4.3

MDA.02802  
T05-035



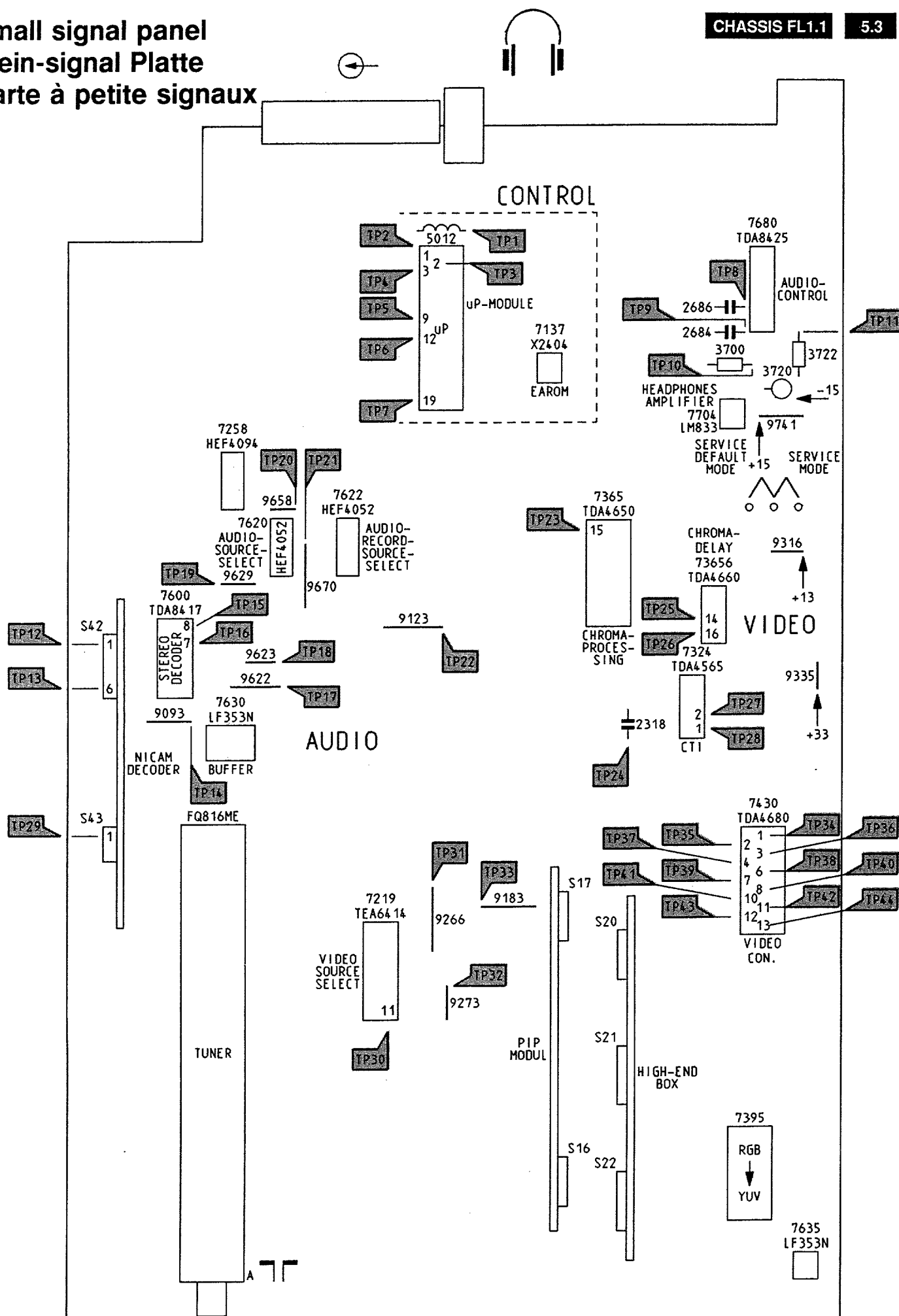


Small signal panel  
Klein-signal Platte  
Carte à petite signaux

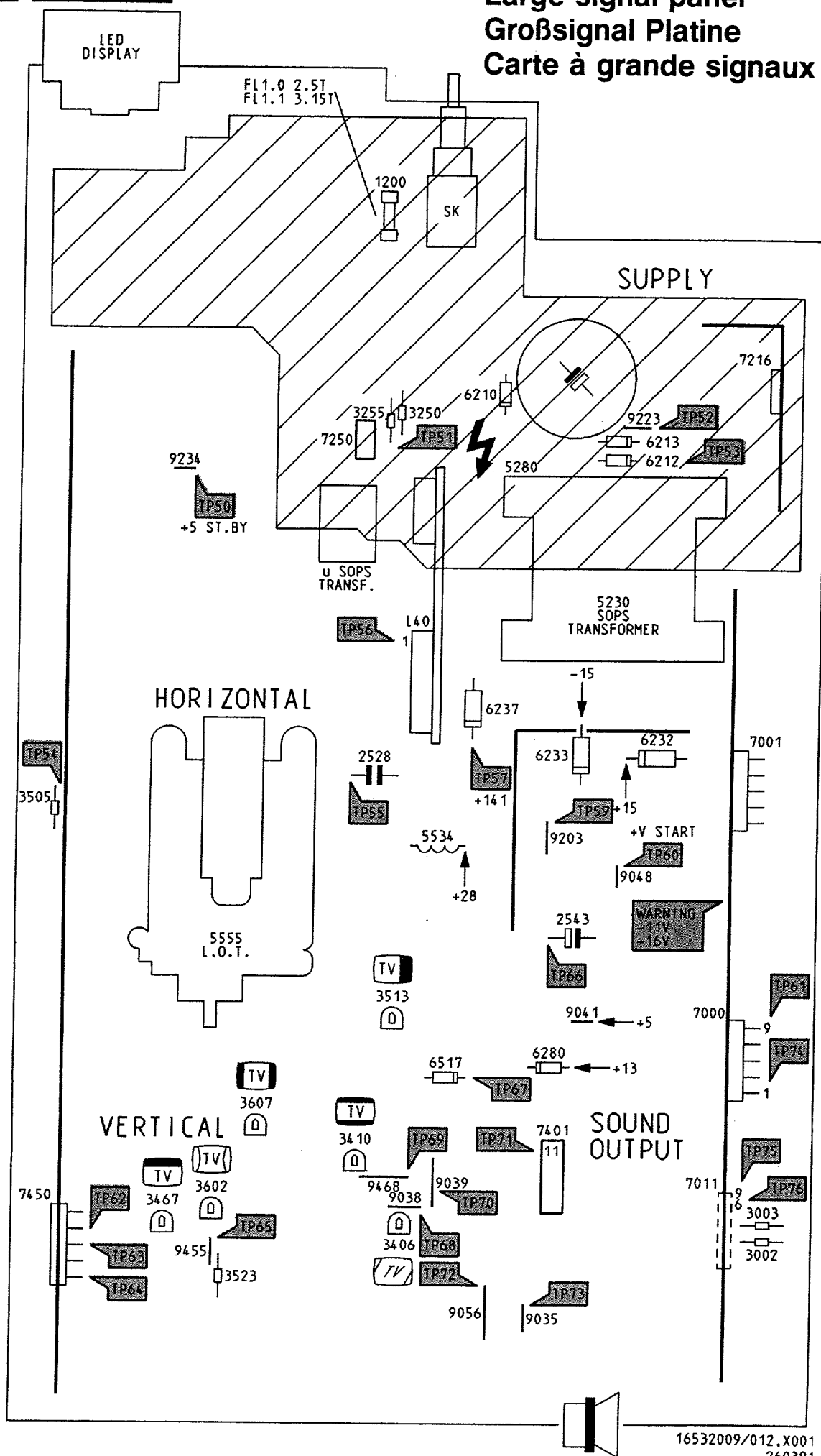
CHASSIS FL1.1

5.3

5.4



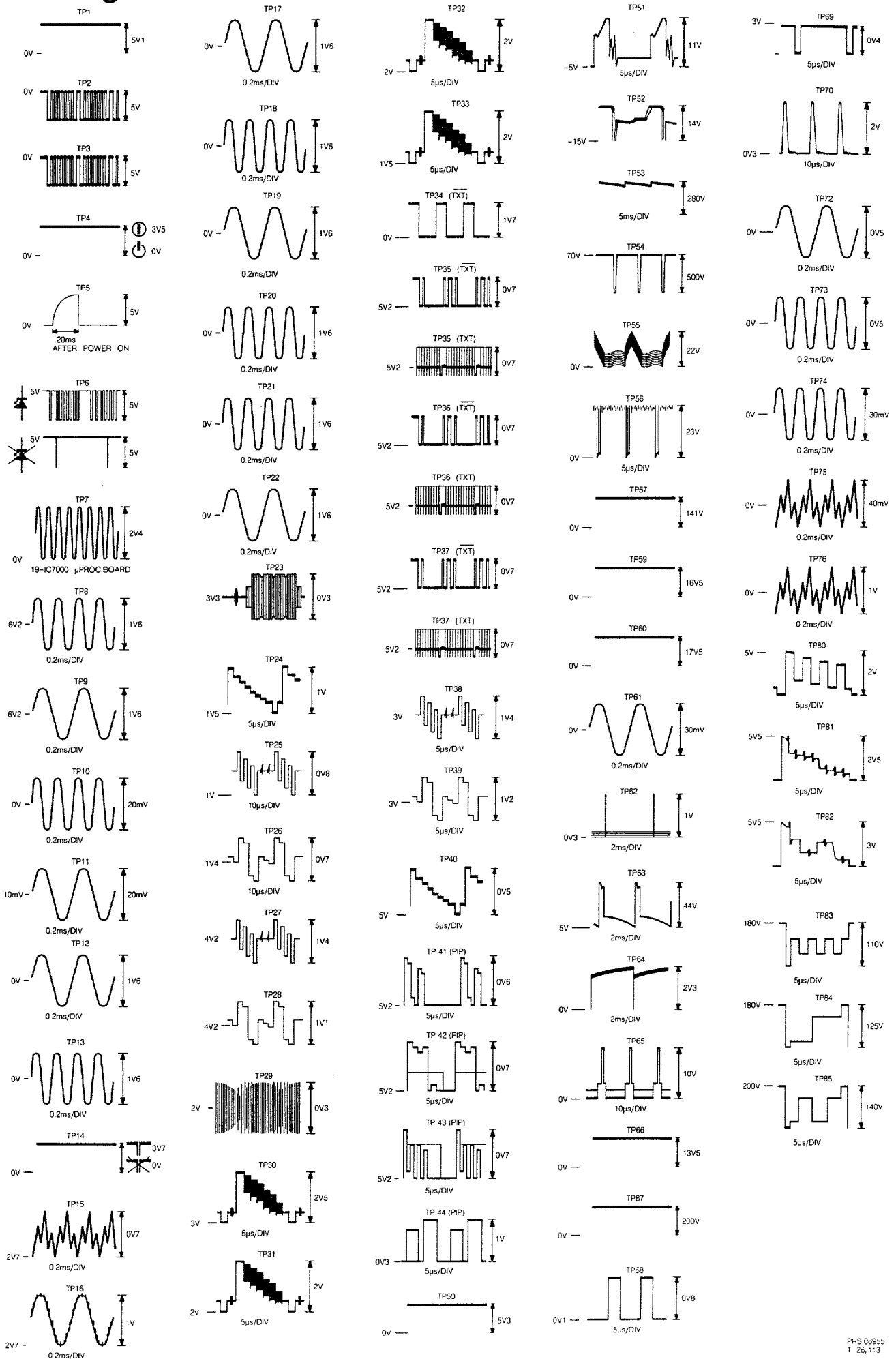
# Large signal panel Großsignal Platine Carte à grande signaux



# Oscillograms

CHASSIS FL1.1

5.5





# Power supply

# Stromversorgung

CHASSIS FL1.1

6.2

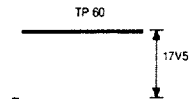
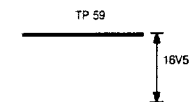
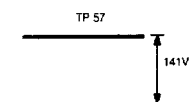
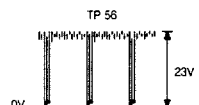
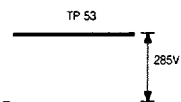
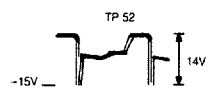
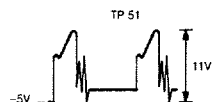
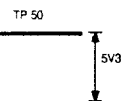
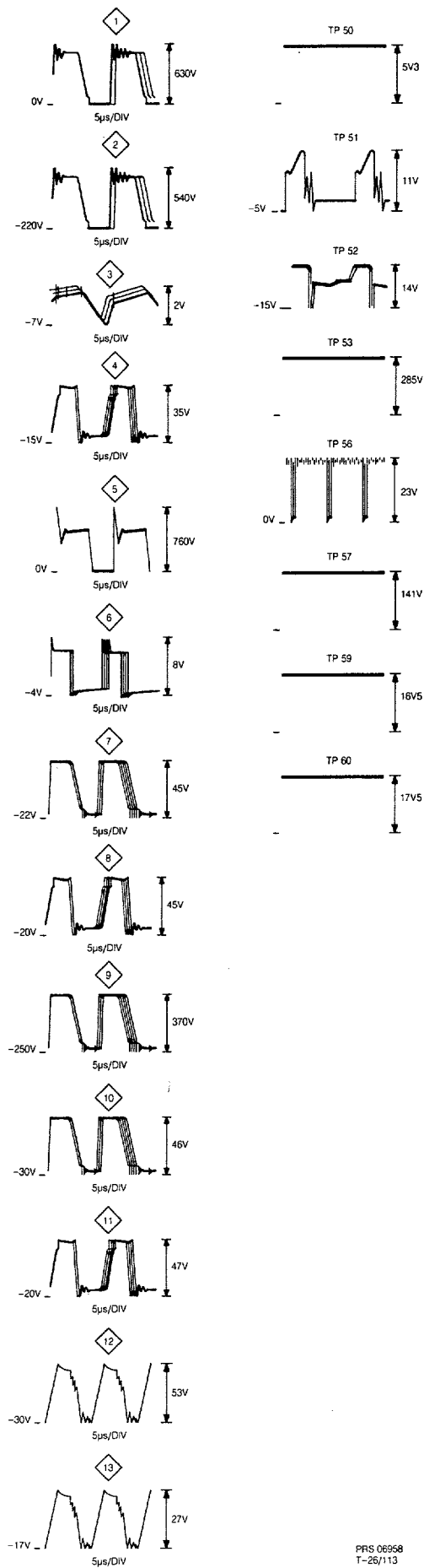
A

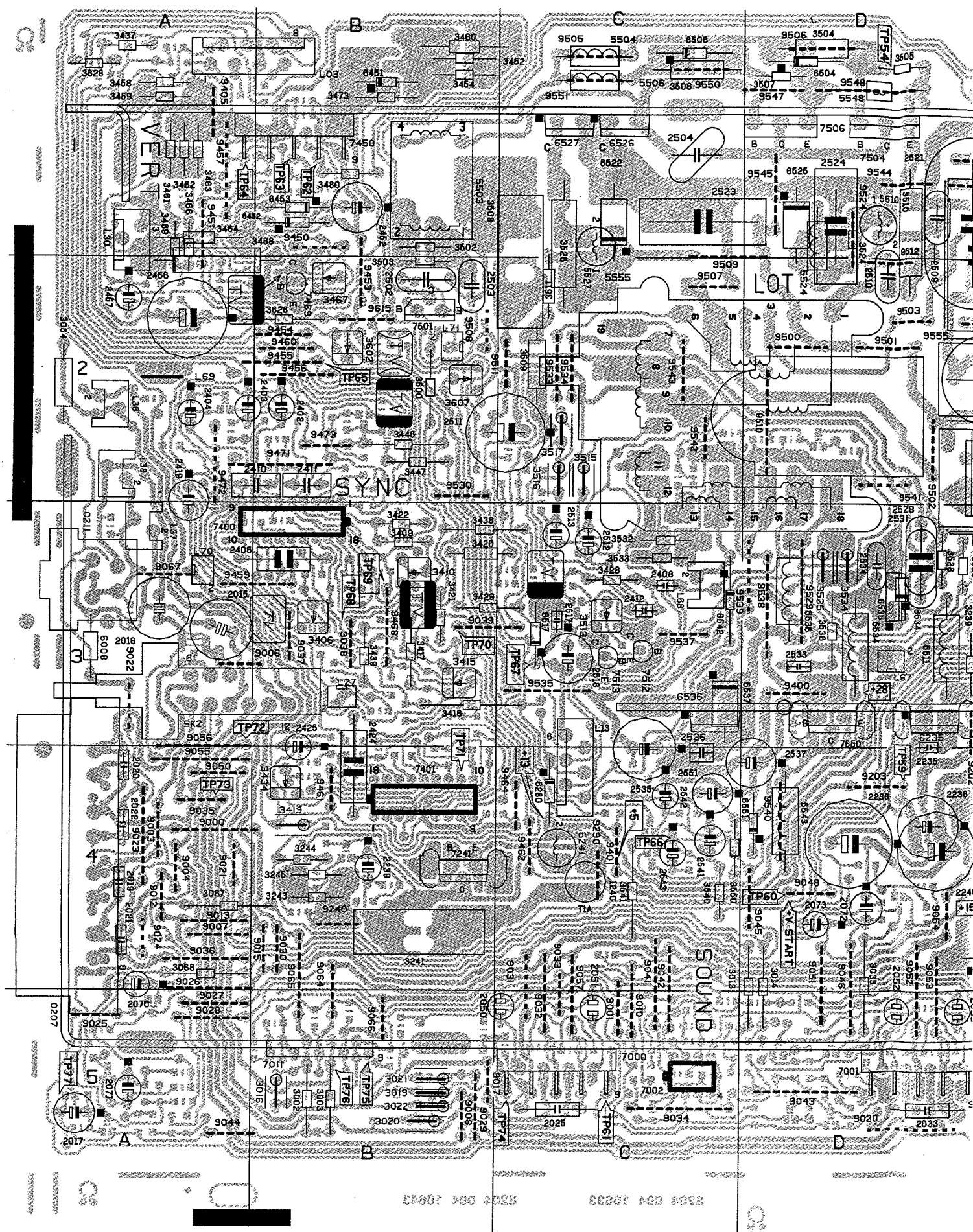
|      |     |      |     |
|------|-----|------|-----|
| 1200 | B 2 | 7216 | F 9 |
| 1250 | L 9 | 7241 | E14 |
| 2200 | C 2 | 7242 | E14 |
| 2202 | B 4 | 7243 | E14 |
| 2203 | B 5 | 7250 | N 8 |
| 2205 | B 3 | 7251 | N 9 |
| 2210 | B 9 | 7268 | N13 |
| 2211 | C 9 | 7270 | M14 |
| 2214 | D10 | 7272 | O16 |
| 2215 | L 9 | 7273 | O15 |
| 2216 | F10 | 7380 | H13 |
| 2231 | A12 | 7381 | H14 |
| 2232 | A13 | 7384 | H15 |
| 2233 | B12 | 9048 | L12 |
| 2234 | B13 | 9203 | E13 |
| 2235 | E12 | 9204 | A 4 |
| 2237 | D12 | 9205 | B 7 |
| 2238 | D12 | 9206 | C 7 |
| 2239 | E15 | 9223 | H 8 |
| 2240 | E12 | 9234 | M16 |
| 2254 | M10 | 9239 | N11 |
| 2255 | N 9 | 9290 | O13 |
| 2258 | O 6 |      |     |
| 2260 | M12 |      |     |
| 2261 | M12 |      |     |
| 2262 | M12 |      |     |
| 2263 | O12 |      |     |
| 2270 | M16 |      |     |
| 2272 | O16 |      |     |
| 2380 | G14 |      |     |
| 2381 | H13 |      |     |
| 2385 | I16 |      |     |
| 2386 | H16 |      |     |
| 3201 | C 1 |      |     |
| 3202 | I 9 |      |     |
| 3204 | C 6 |      |     |
| 3204 | B 6 |      |     |
| 3205 | C 6 |      |     |
| 3209 | C 7 |      |     |
| 3210 | C 8 |      |     |
| 3211 | B 8 |      |     |
| 3212 | N 6 |      |     |
| 3213 | O 6 |      |     |
| 3215 | A13 |      |     |
| 3216 | G10 |      |     |
| 3239 | C14 |      |     |
| 3240 | D14 |      |     |
| 3241 | D14 |      |     |
| 3242 | E13 |      |     |
| 3243 | F14 |      |     |
| 3244 | E13 |      |     |
| 3245 | F14 |      |     |
| 3247 | F15 |      |     |
| 3248 | E15 |      |     |
| 3249 | M 9 |      |     |
| 3250 | O 8 |      |     |
| 3251 | N 8 |      |     |
| 3252 | L 9 |      |     |
| 3253 | L10 |      |     |
| 3255 | N 9 |      |     |
| 3266 | O13 |      |     |
| 3267 | M13 |      |     |
| 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 |      |     |
| 4102 | N17 |      |     |
| 4200 | H15 |      |     |
| 5202 | C 4 |      |     |
| 5203 | A 6 |      |     |
| 5204 | A 4 |      |     |
| 5205 | C 3 |      |     |
| 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 |      |     |
| 6246 | F13 |      |     |
| 6251 | O 9 |      |     |
| 6260 | L12 |      |     |
| 6262 | N12 |      |     |
| 6266 | N13 |      |     |
| 6272 | O14 |      |     |
| 6306 | H 7 |      |     |
| 6352 | I15 |      |     |
| 6353 | I14 |      |     |
| 6372 | K14 |      |     |
| 6373 | K15 |      |     |
| 6375 | F12 |      |     |
| 6376 | H12 |      |     |
| 7201 | N 7 |      |     |

CHASSIS FL1.1

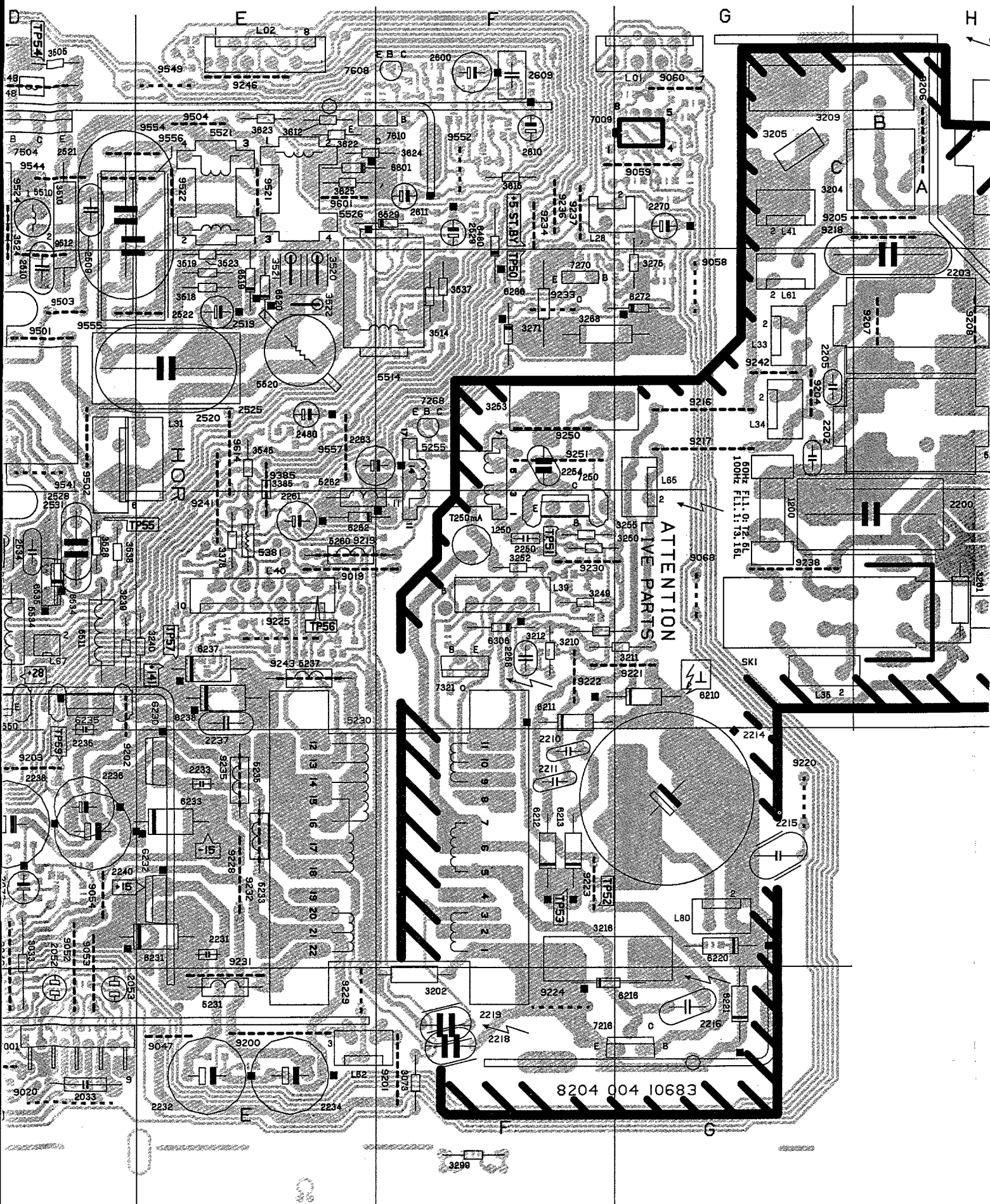
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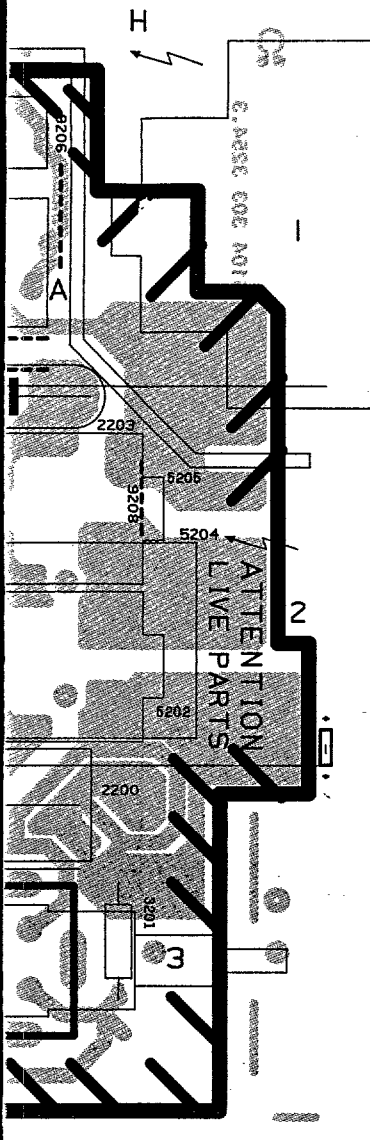
## L'alimentation



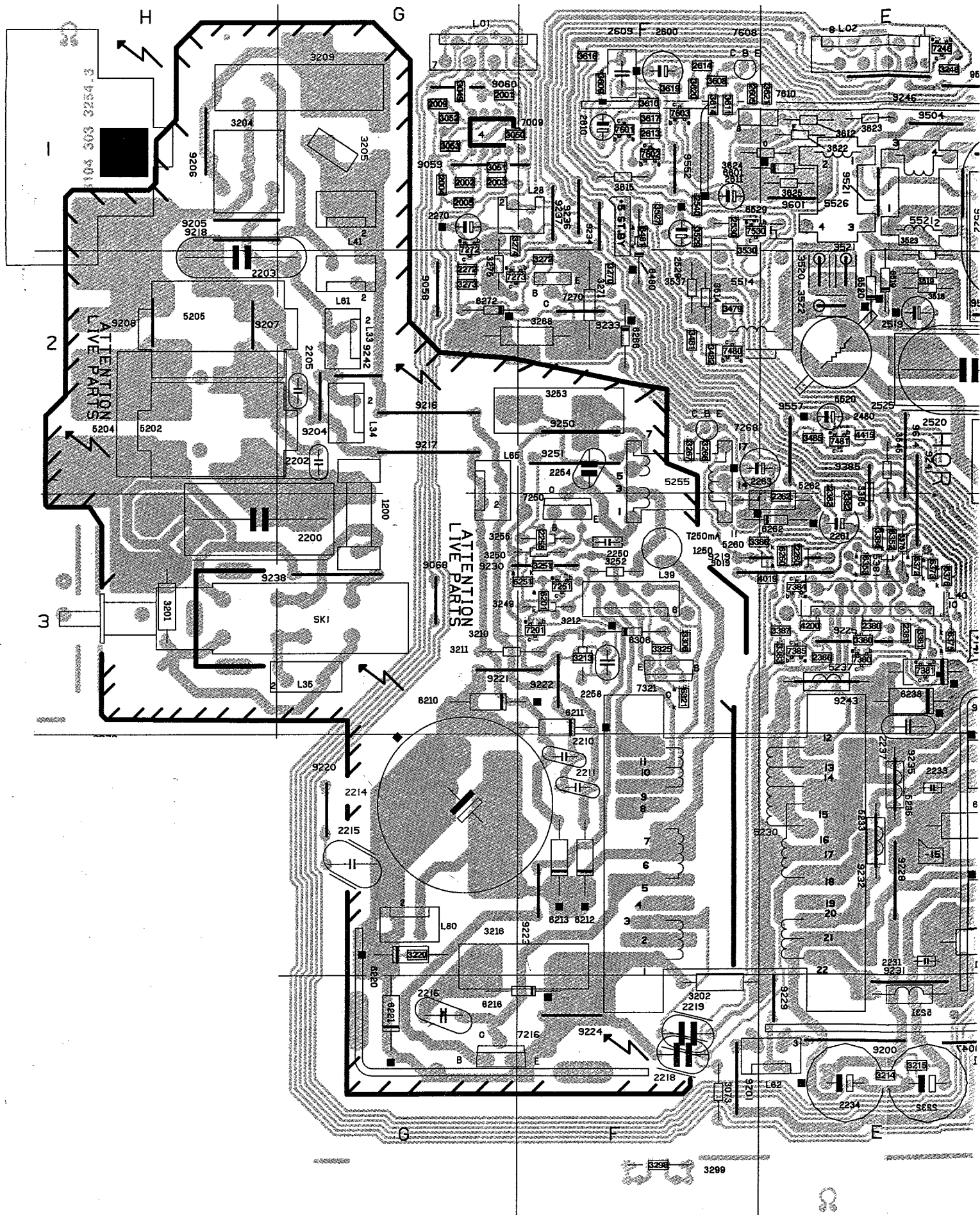


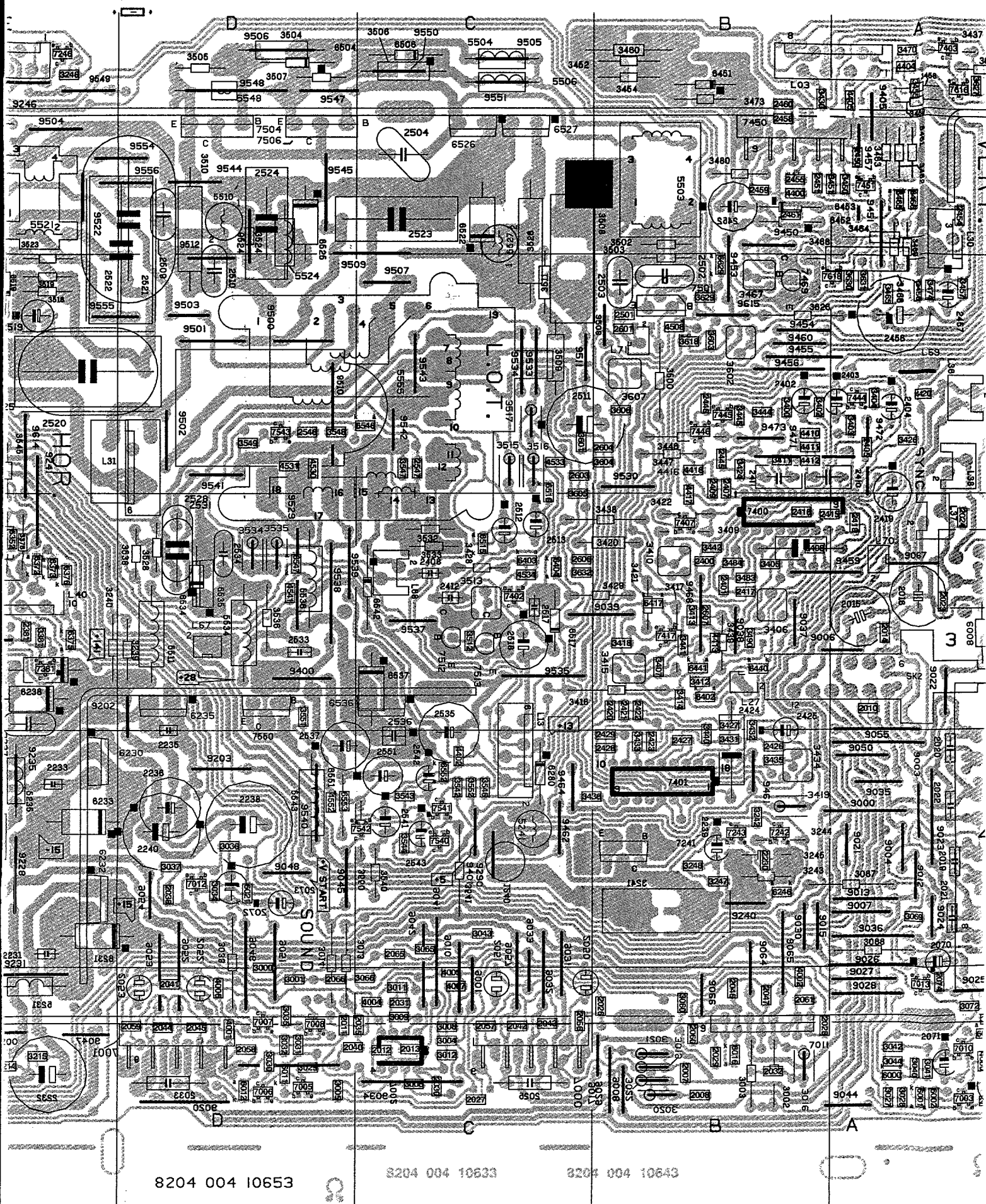
# Platine forts signaux

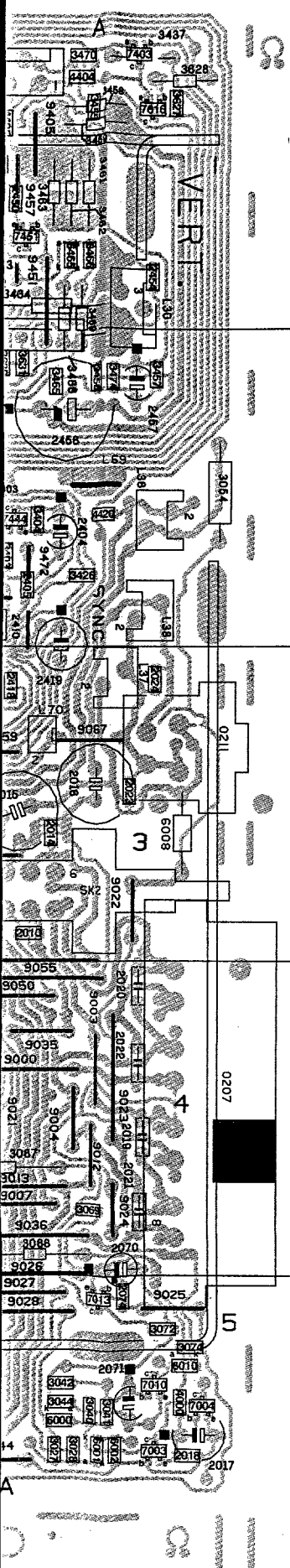




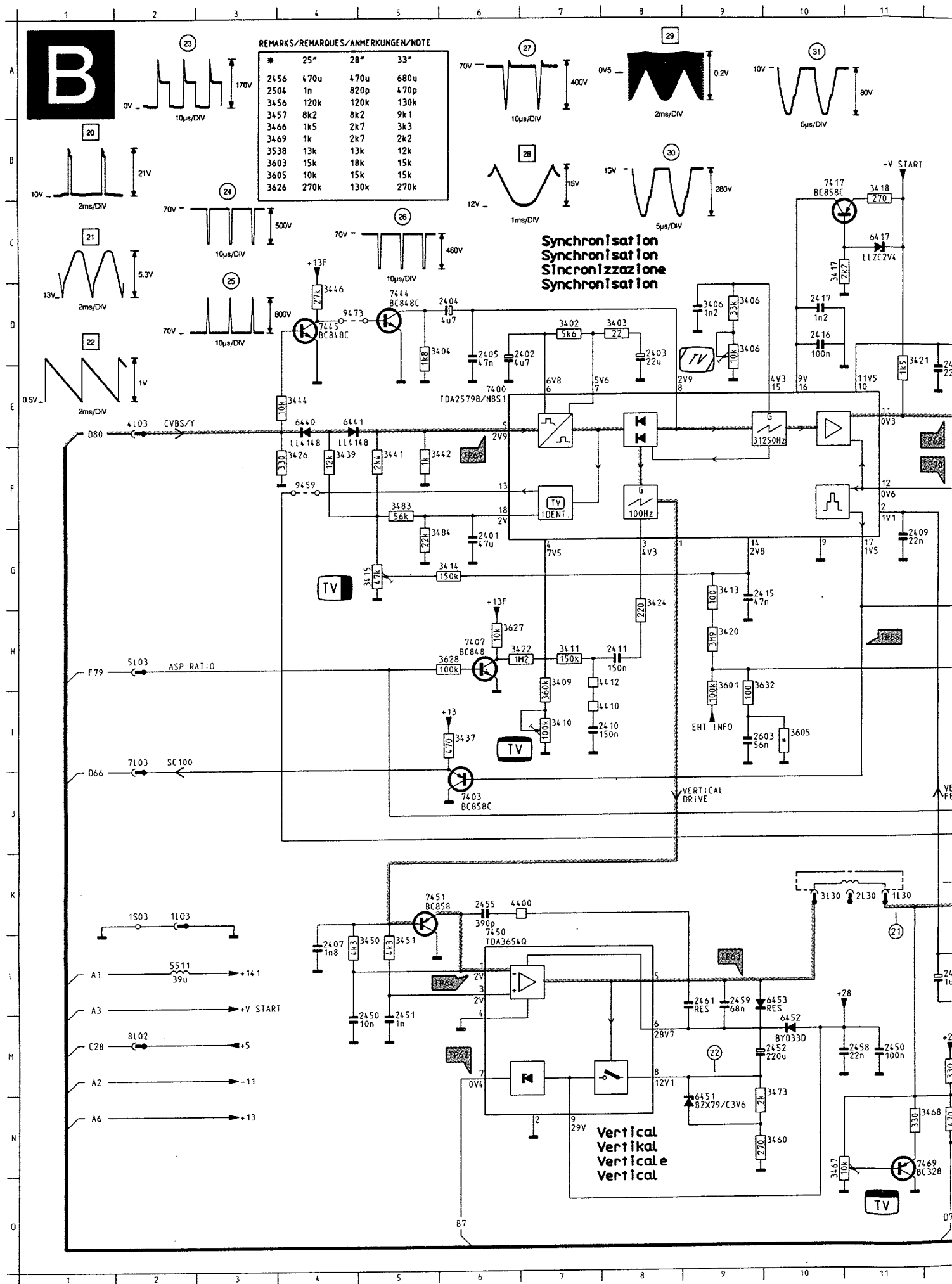
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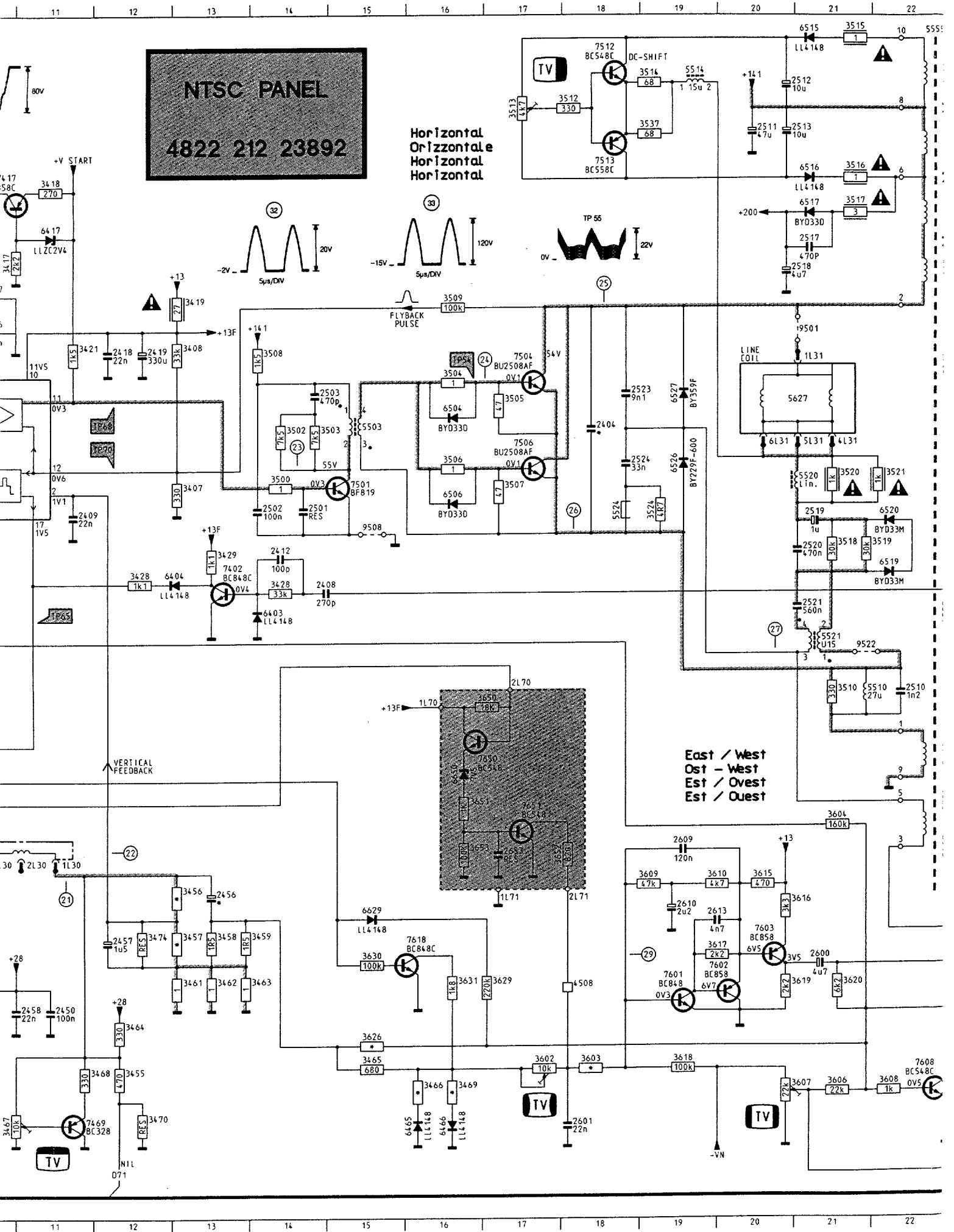


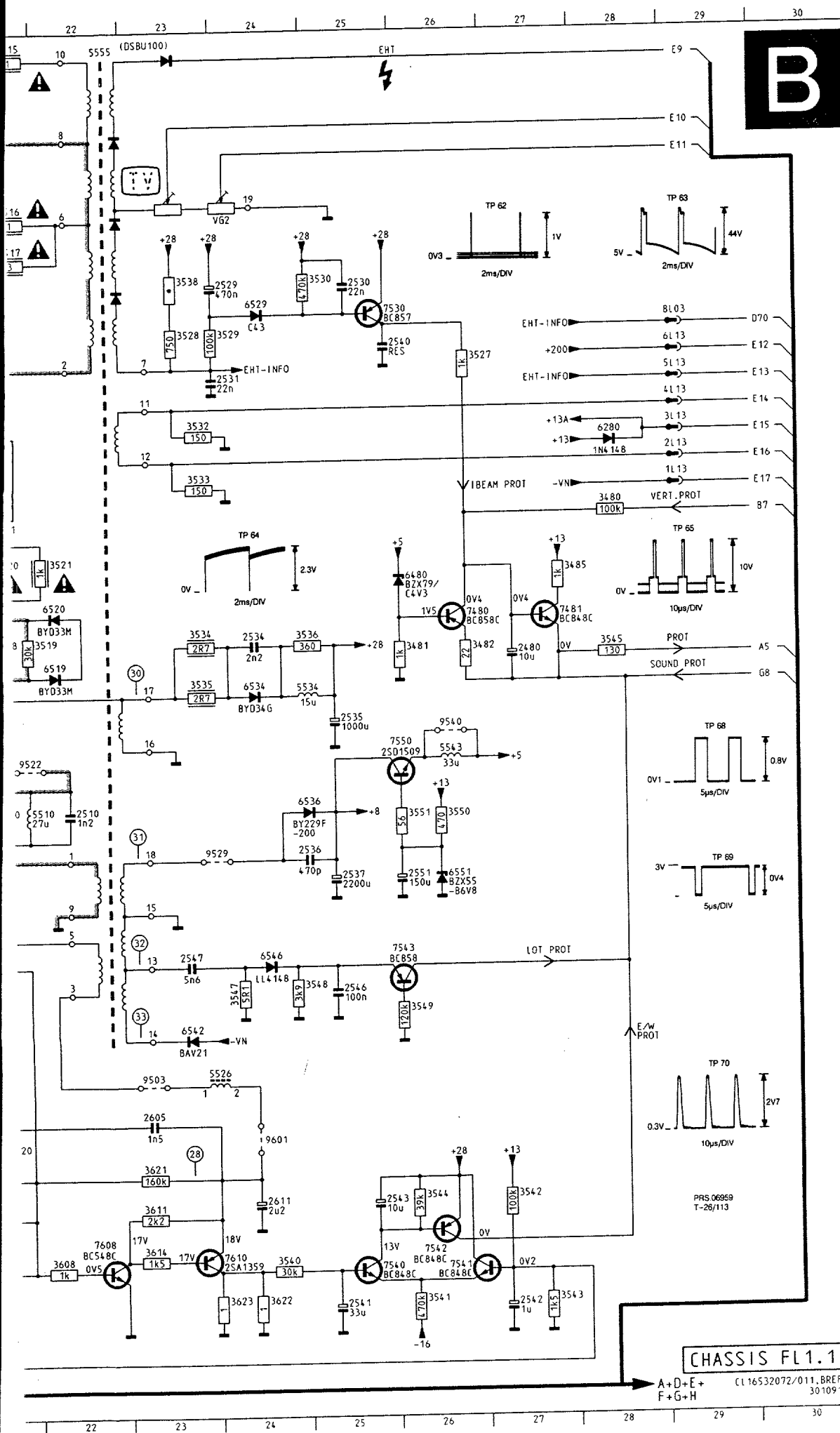


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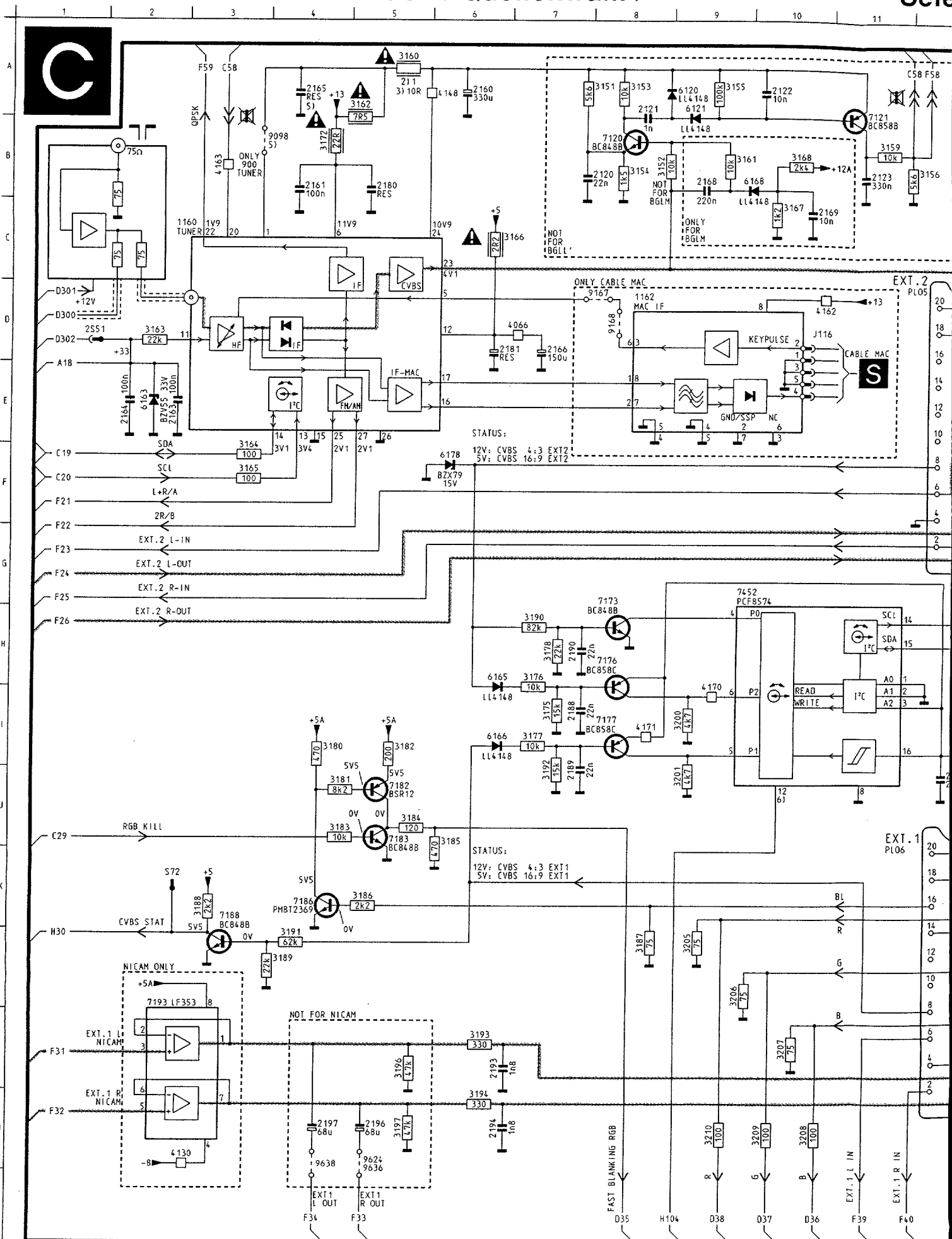


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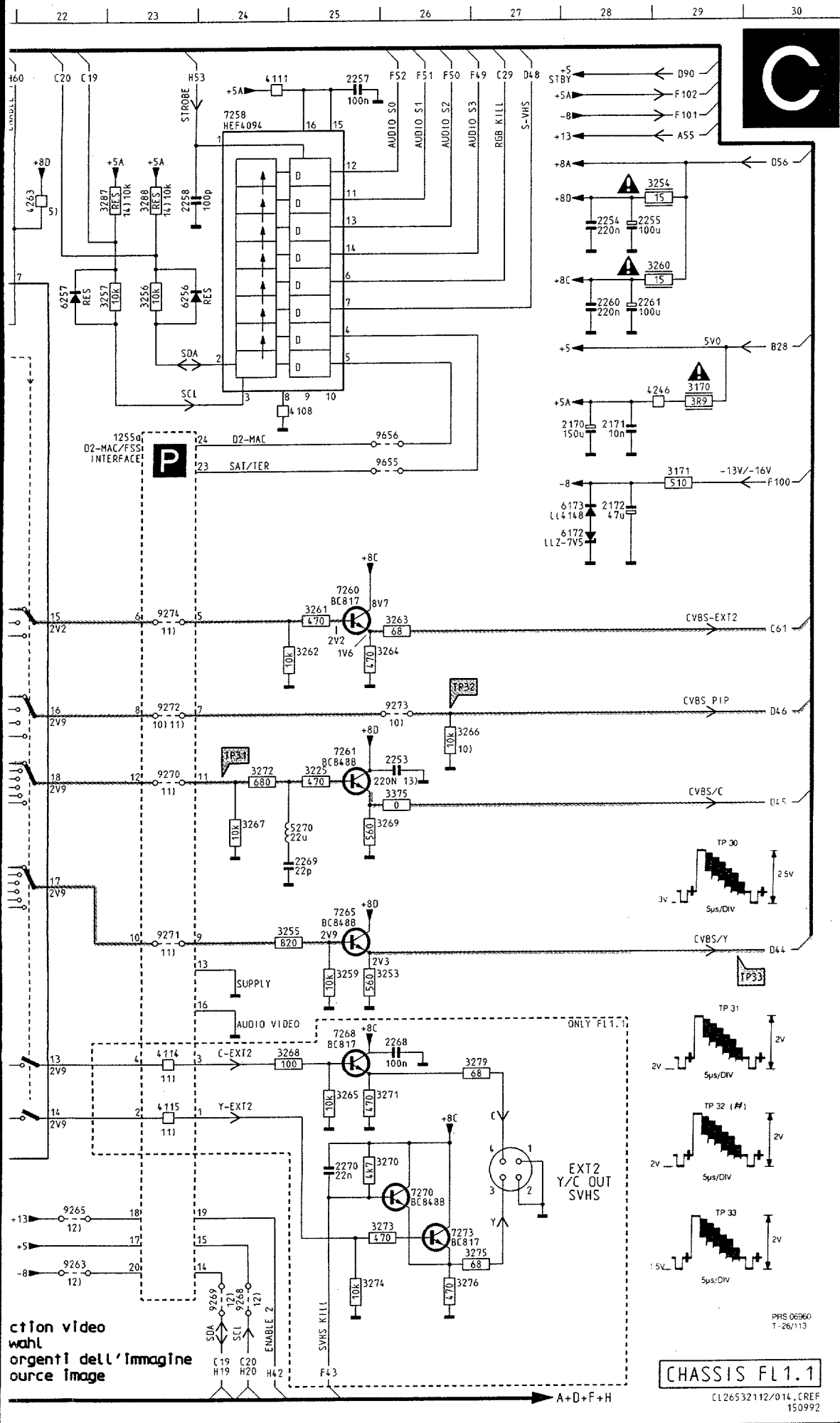




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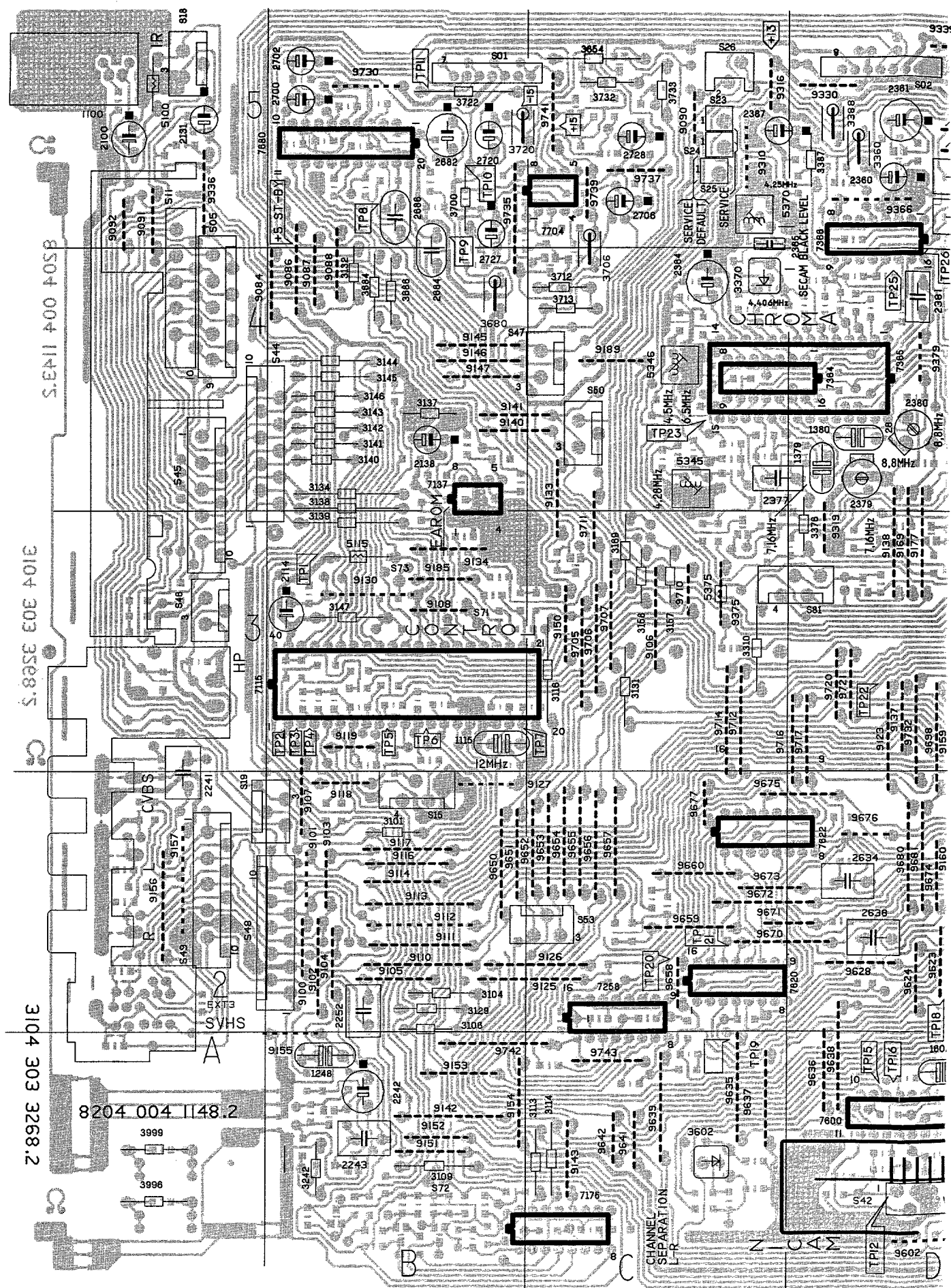


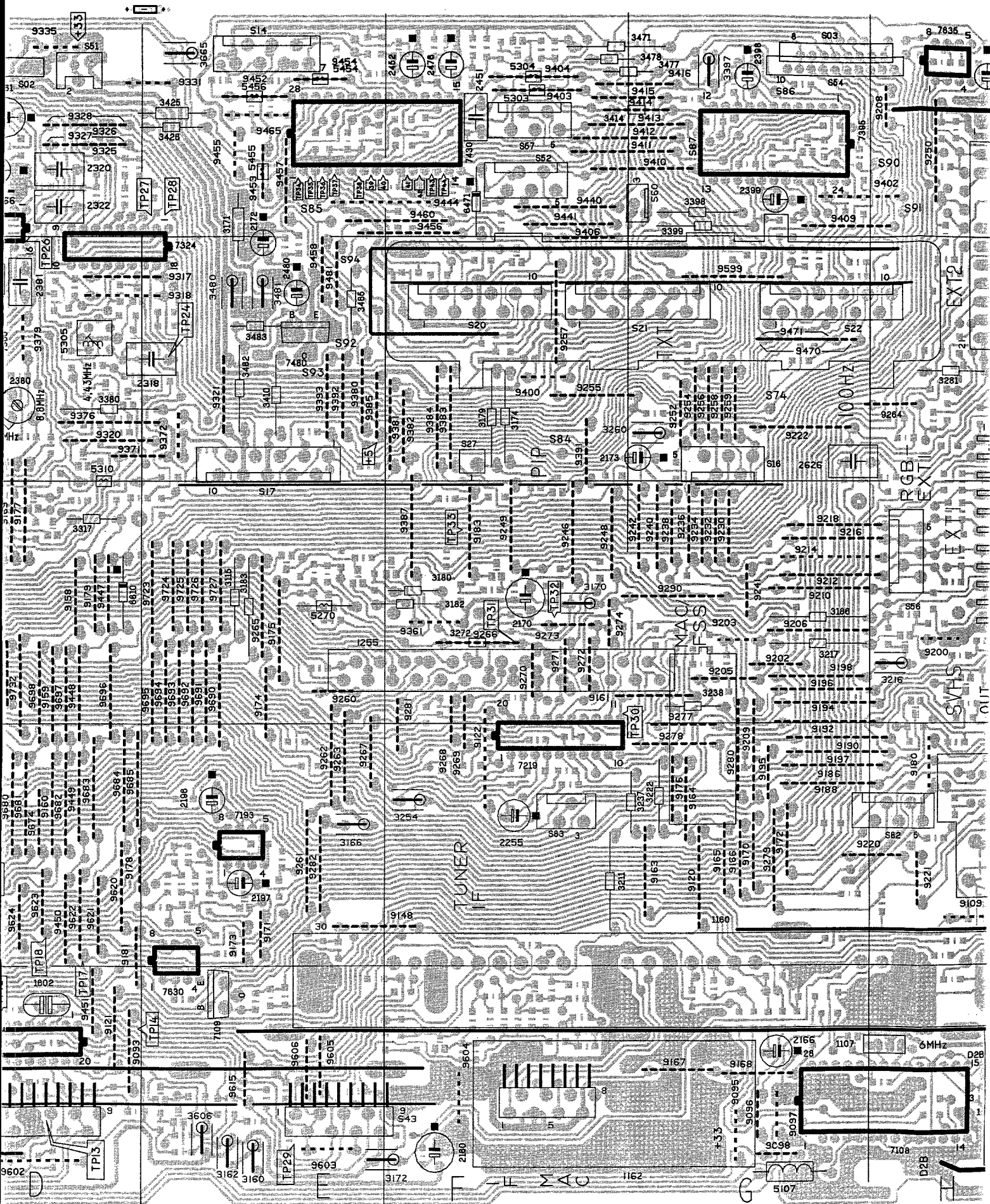


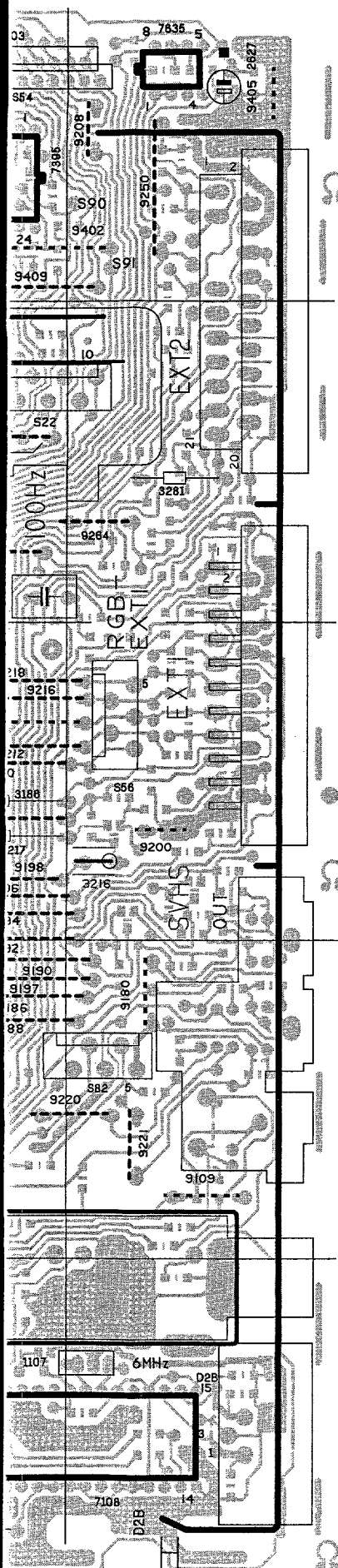
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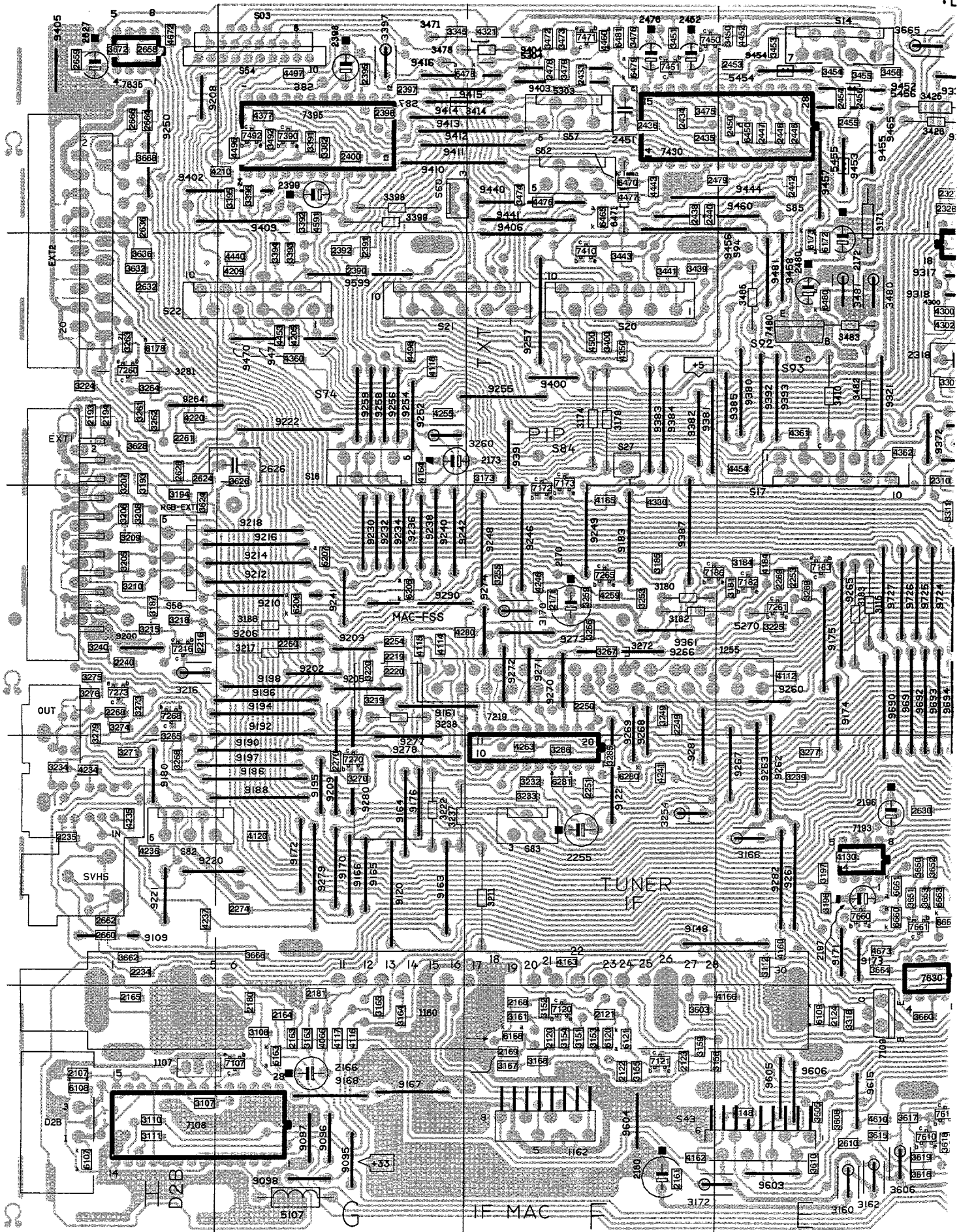
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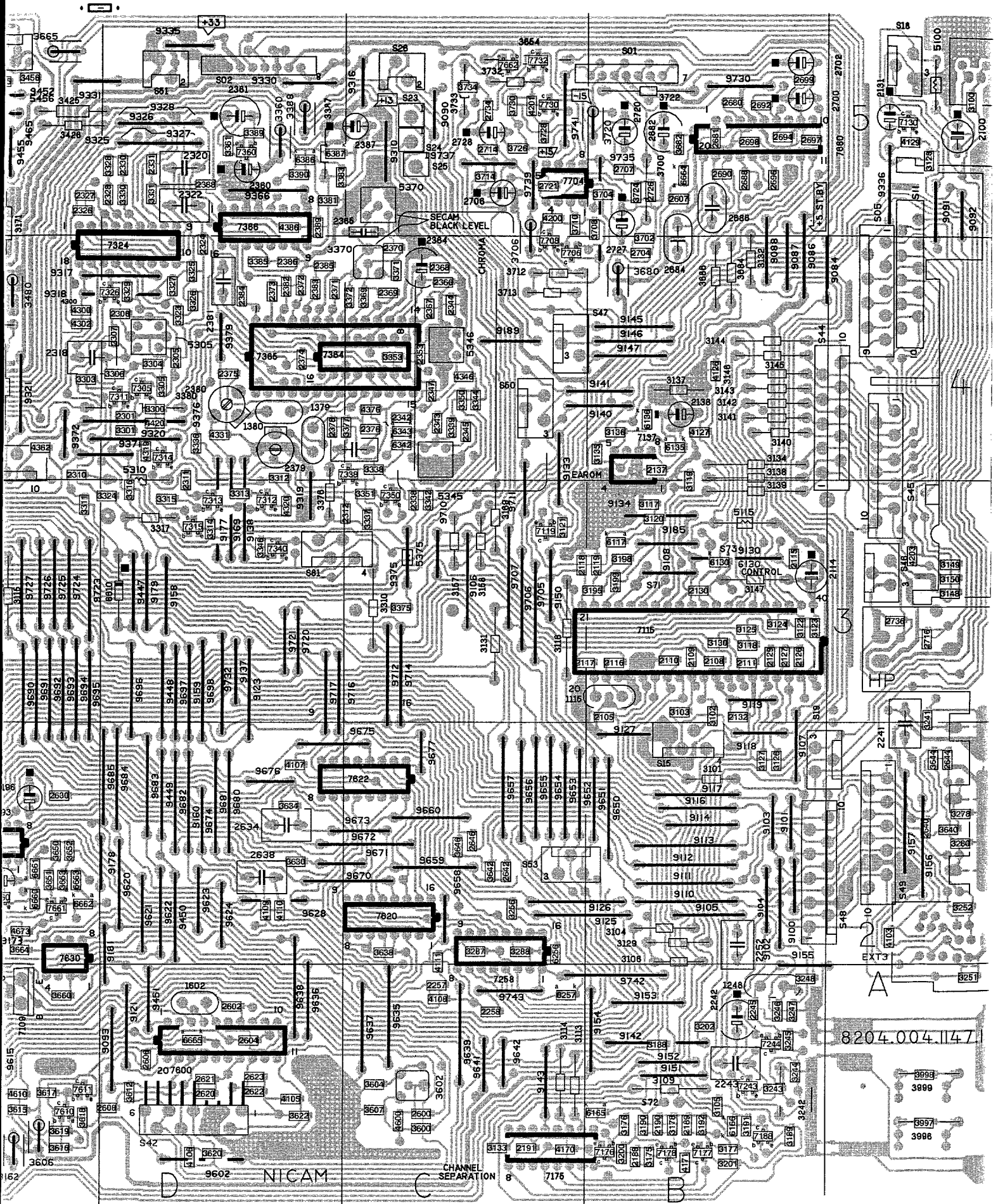




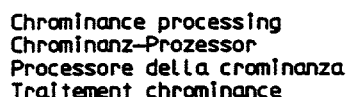


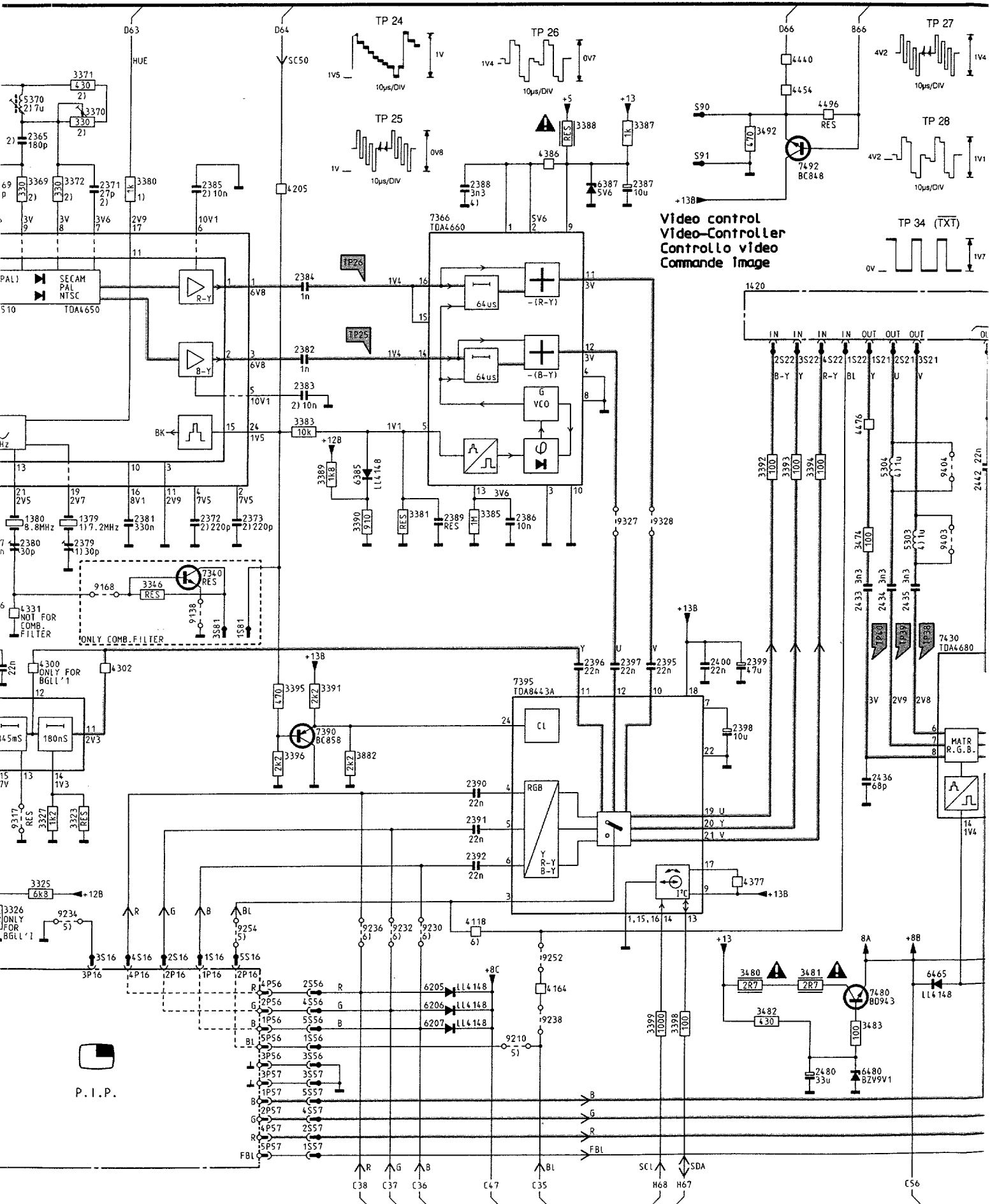
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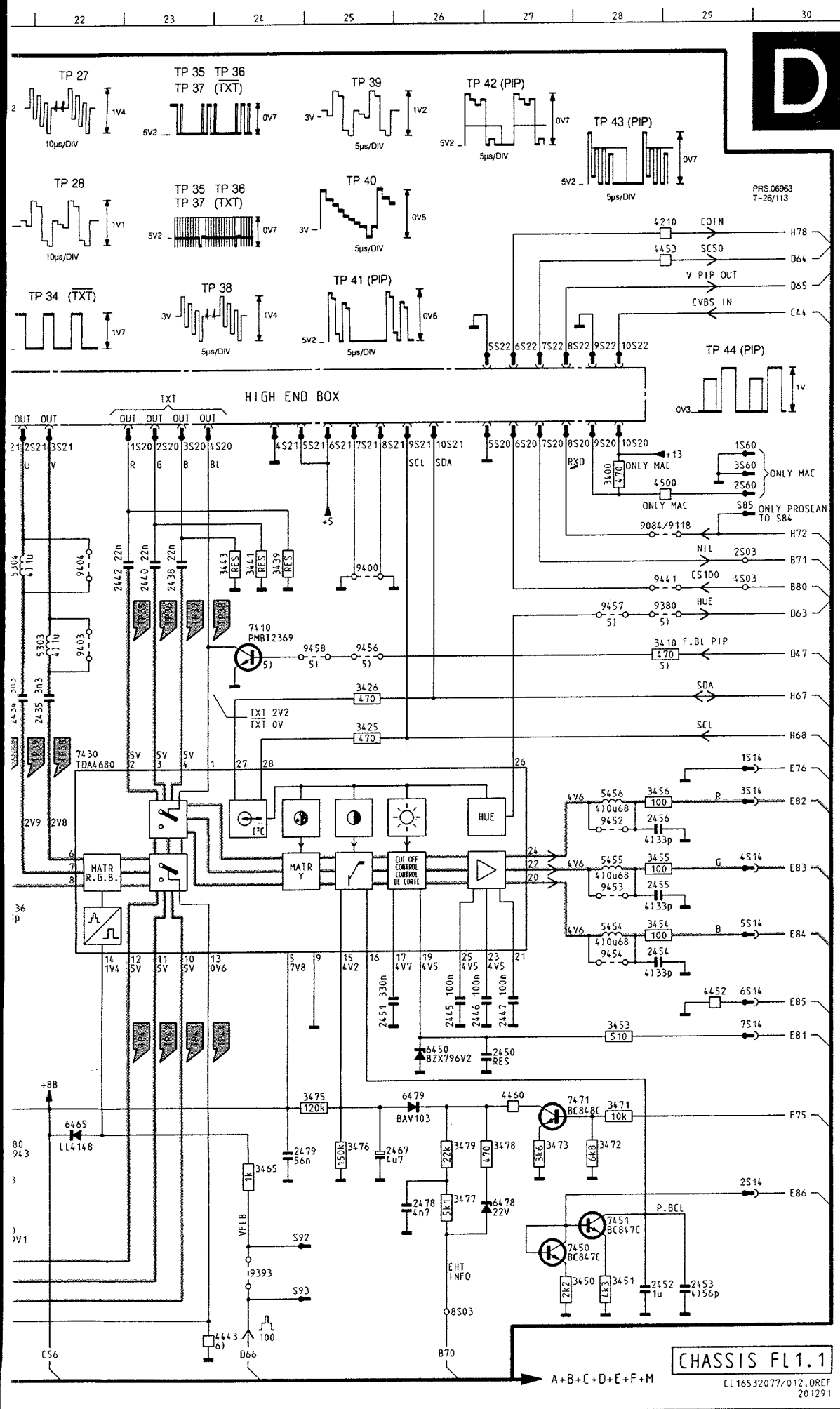




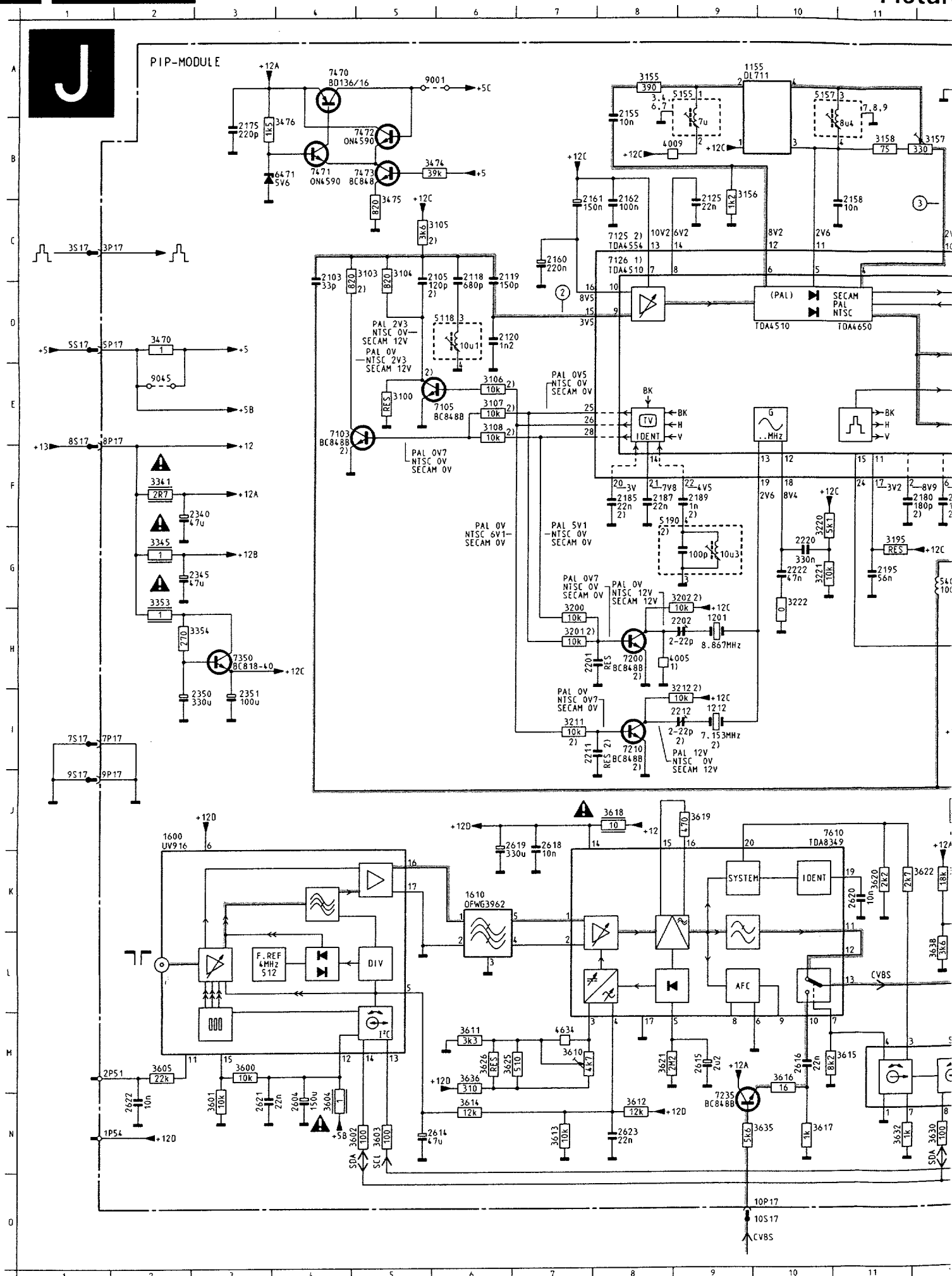


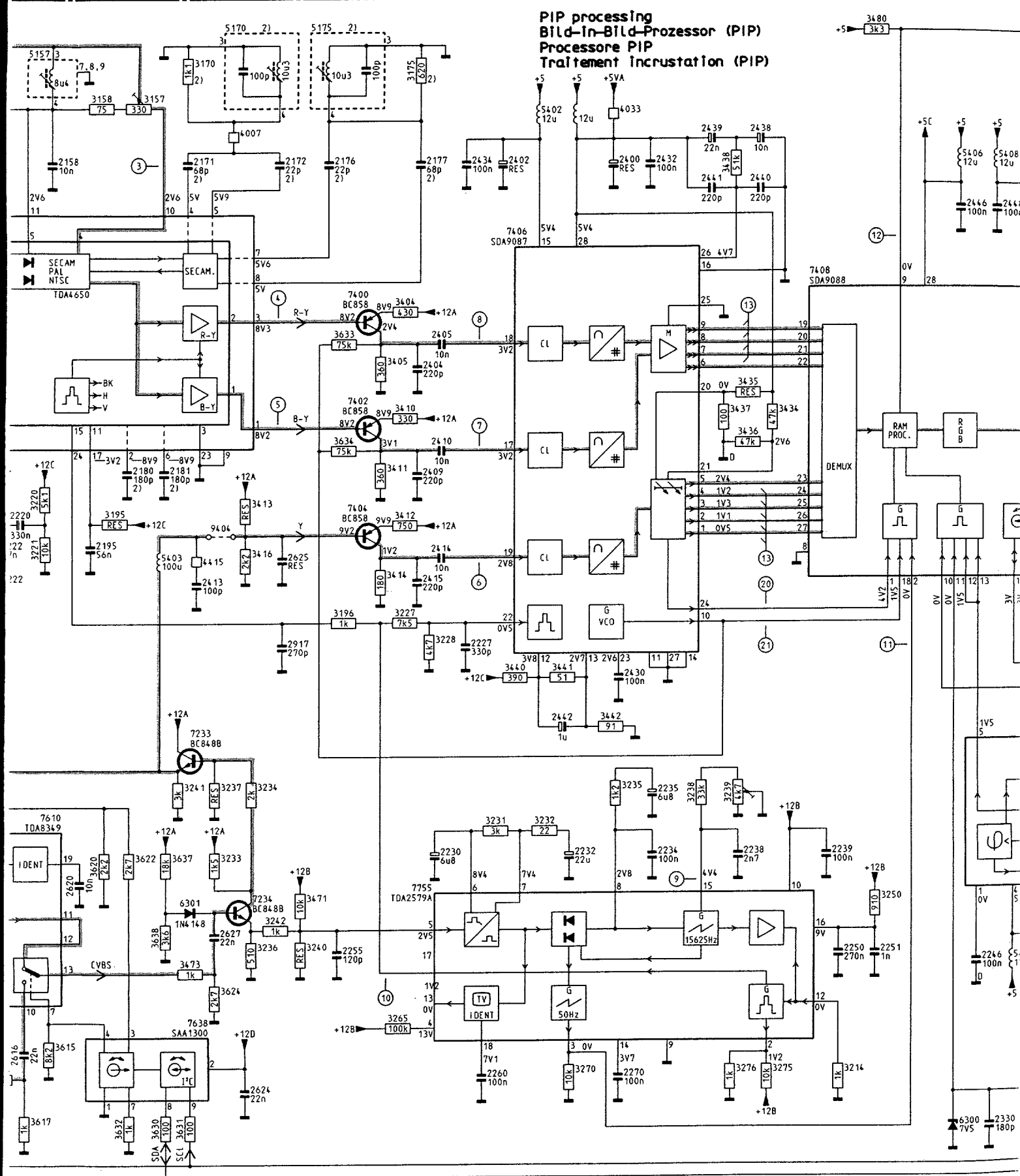


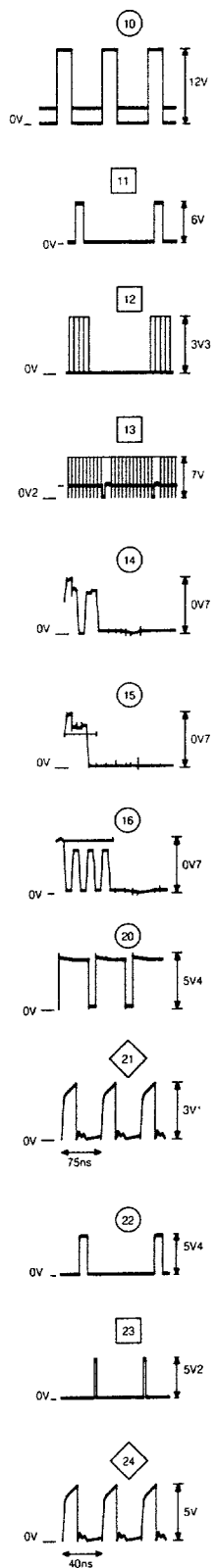




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| 3353 | D 6 | 7364 | D 9 |      |     |
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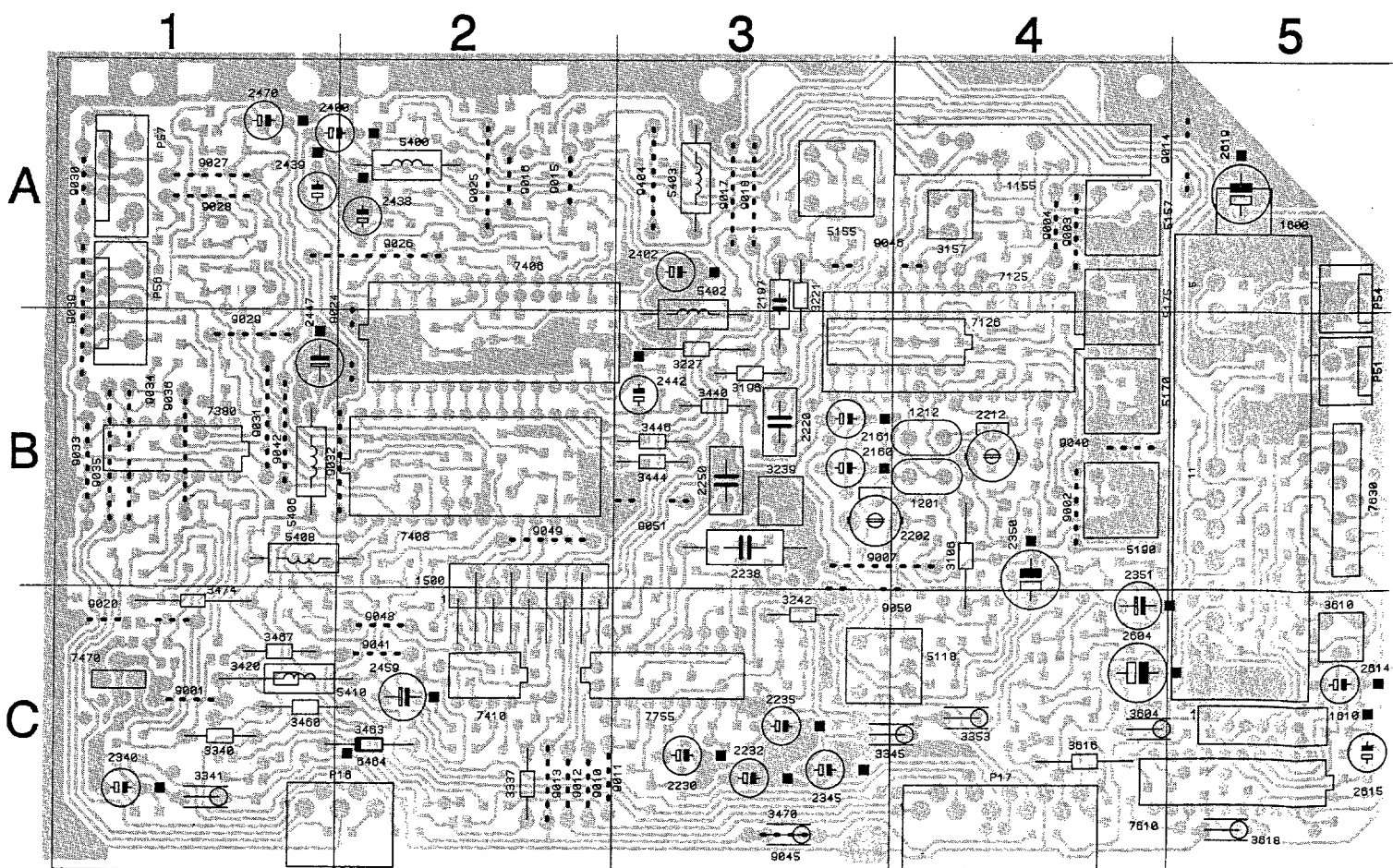
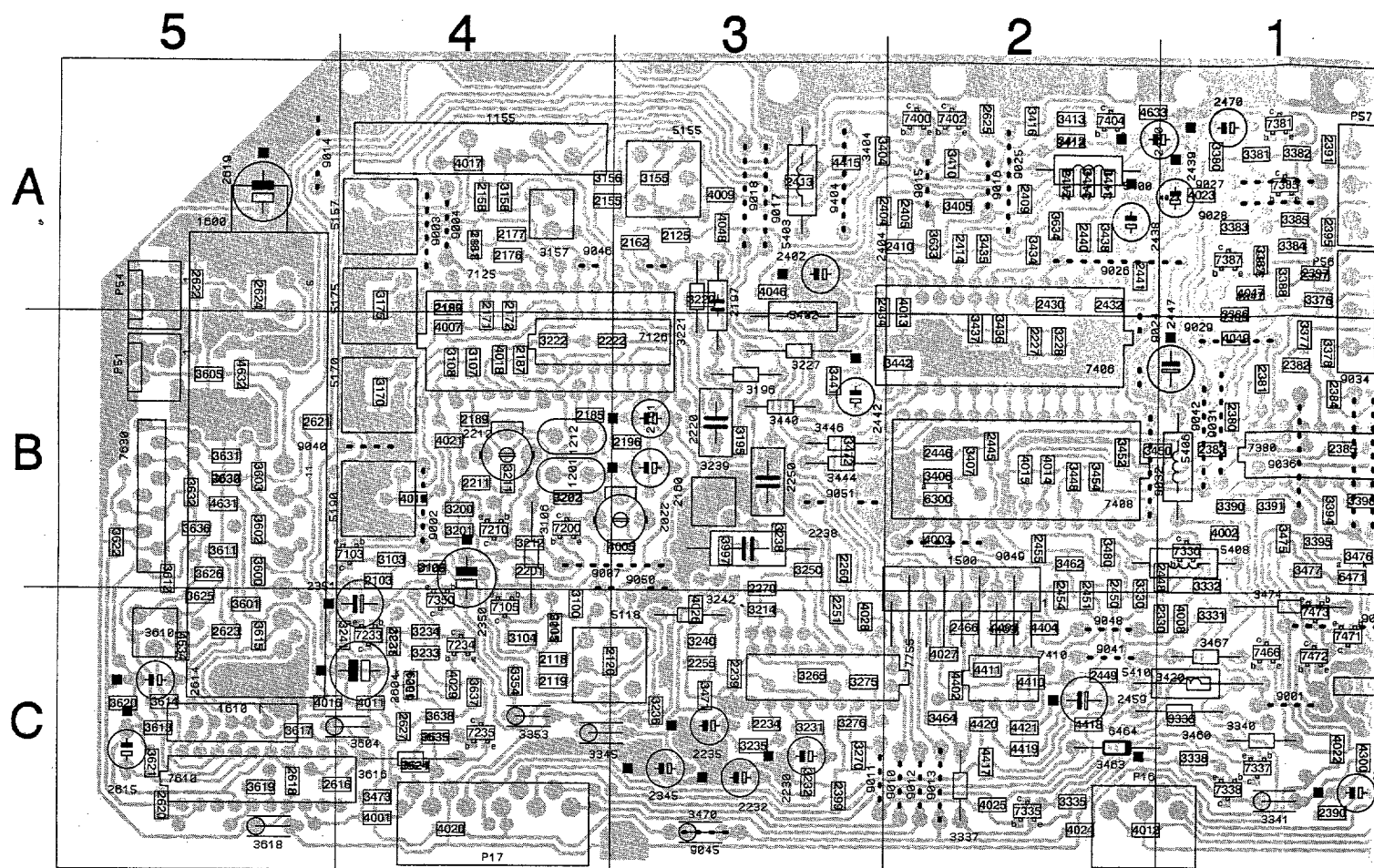
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PRESENTE SOBRE MODELOS:

1) PAL  
2) PAL, SECAM, NTSC

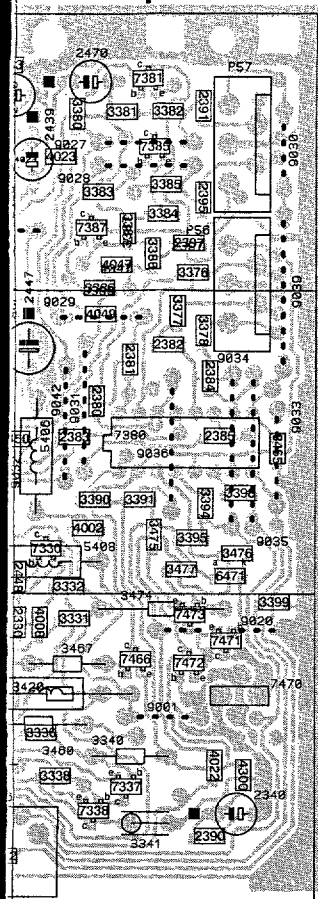
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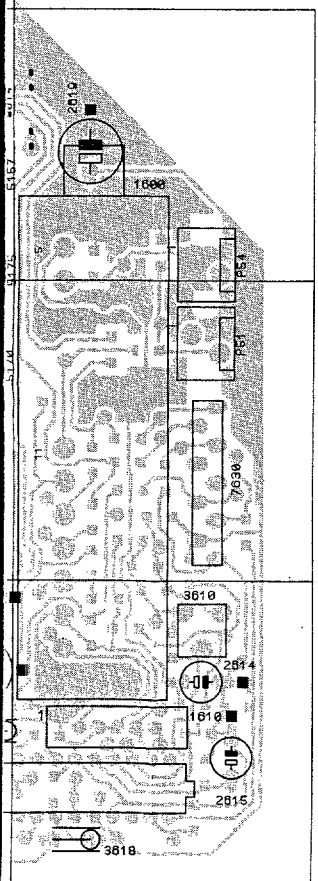
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| 2160 | C   | 7    | 3237 | J13  | 6464 | H25  |   |   |
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| 2162 | C   | 8    | 3239 | J19  | 7103 | E    | 4 |   |
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| 2172 | C13 | 3241 | J12  | 7125 | C    | 8    |   |   |
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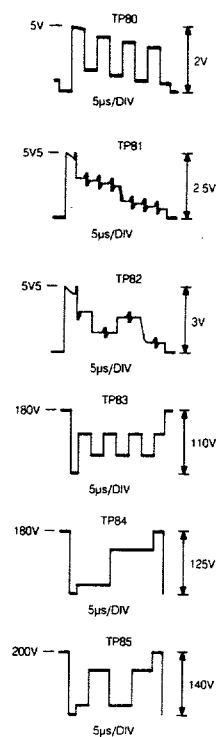
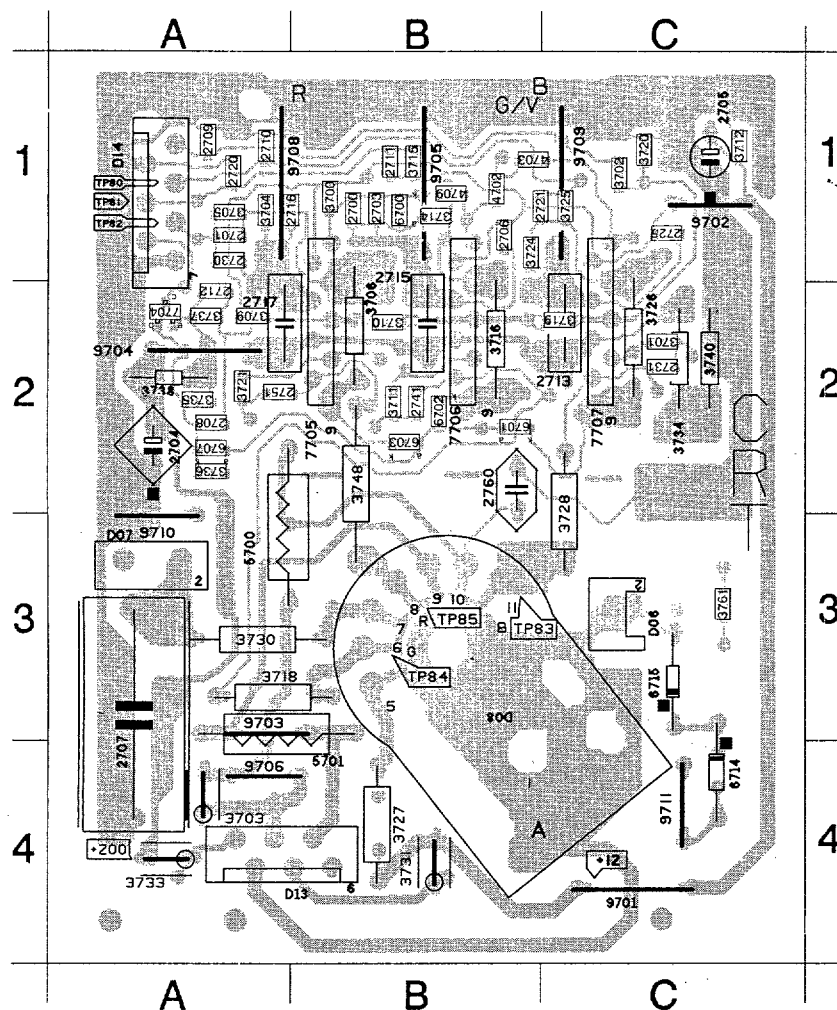
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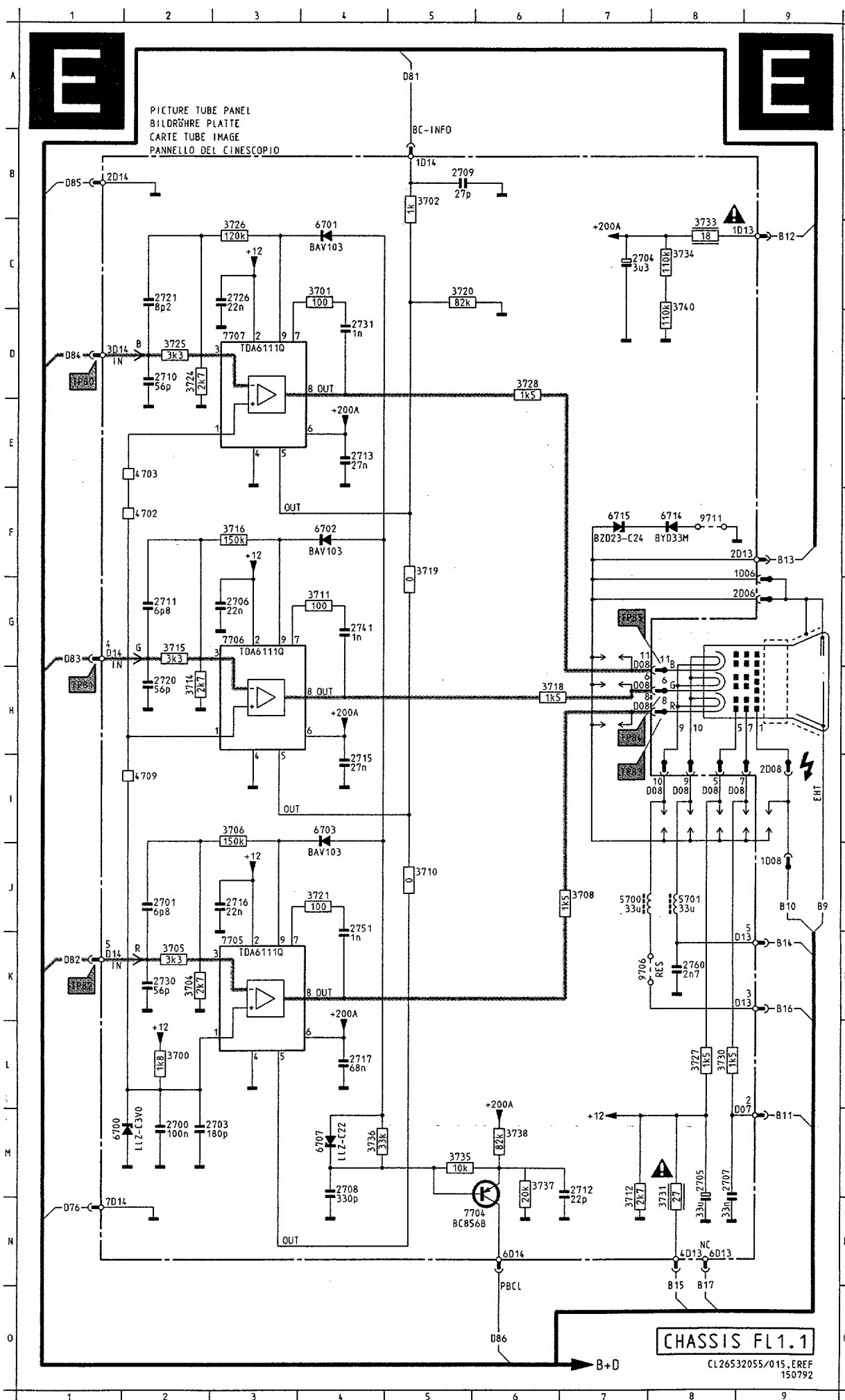


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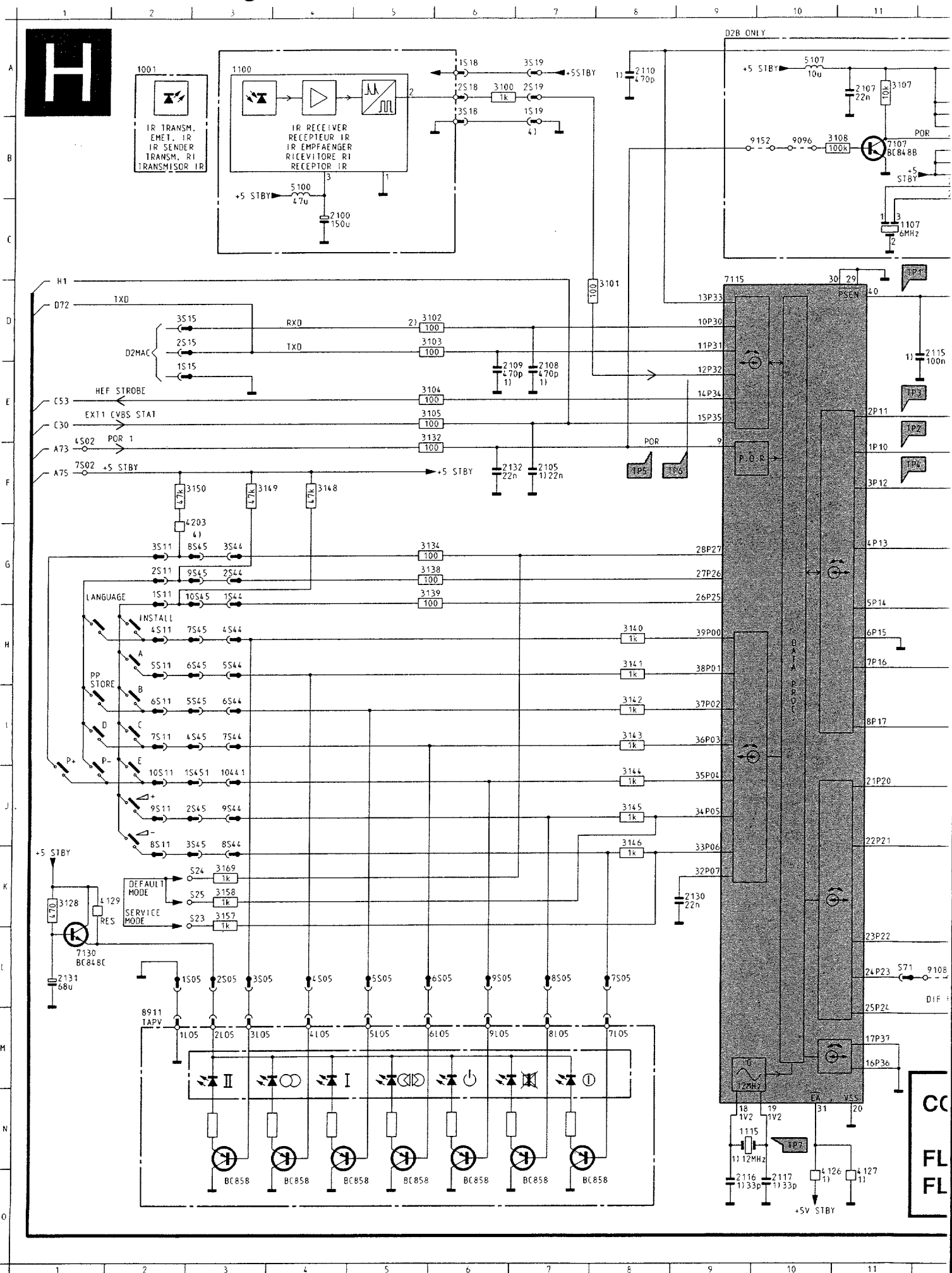


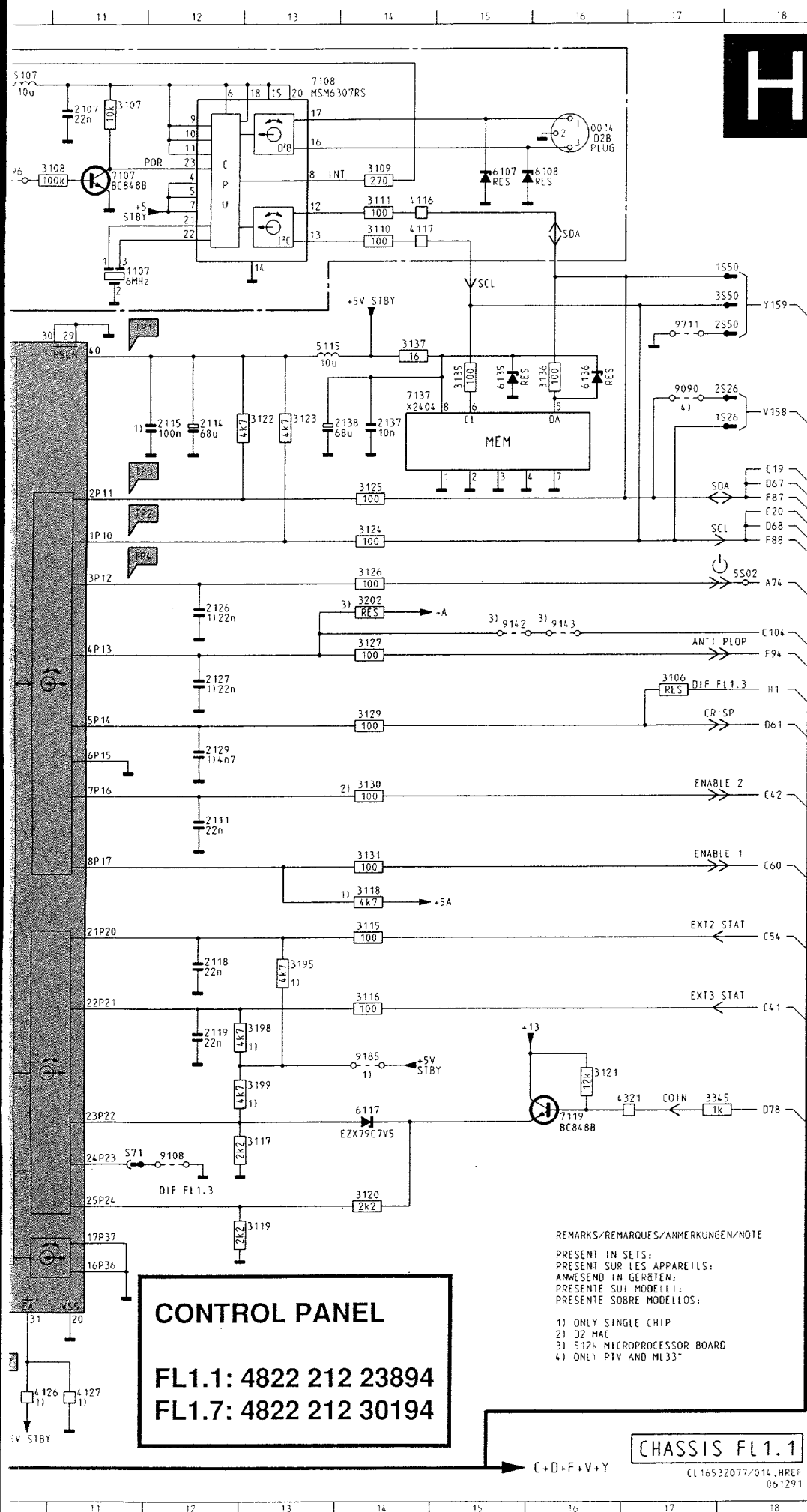
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## 6.31 CHASSIS FL1.1 Platine TRC

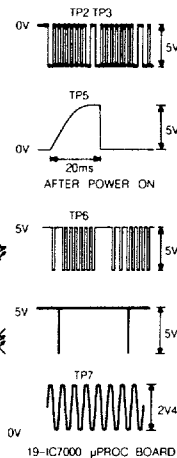


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2711 G 2  
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2720 H 2  
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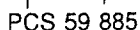




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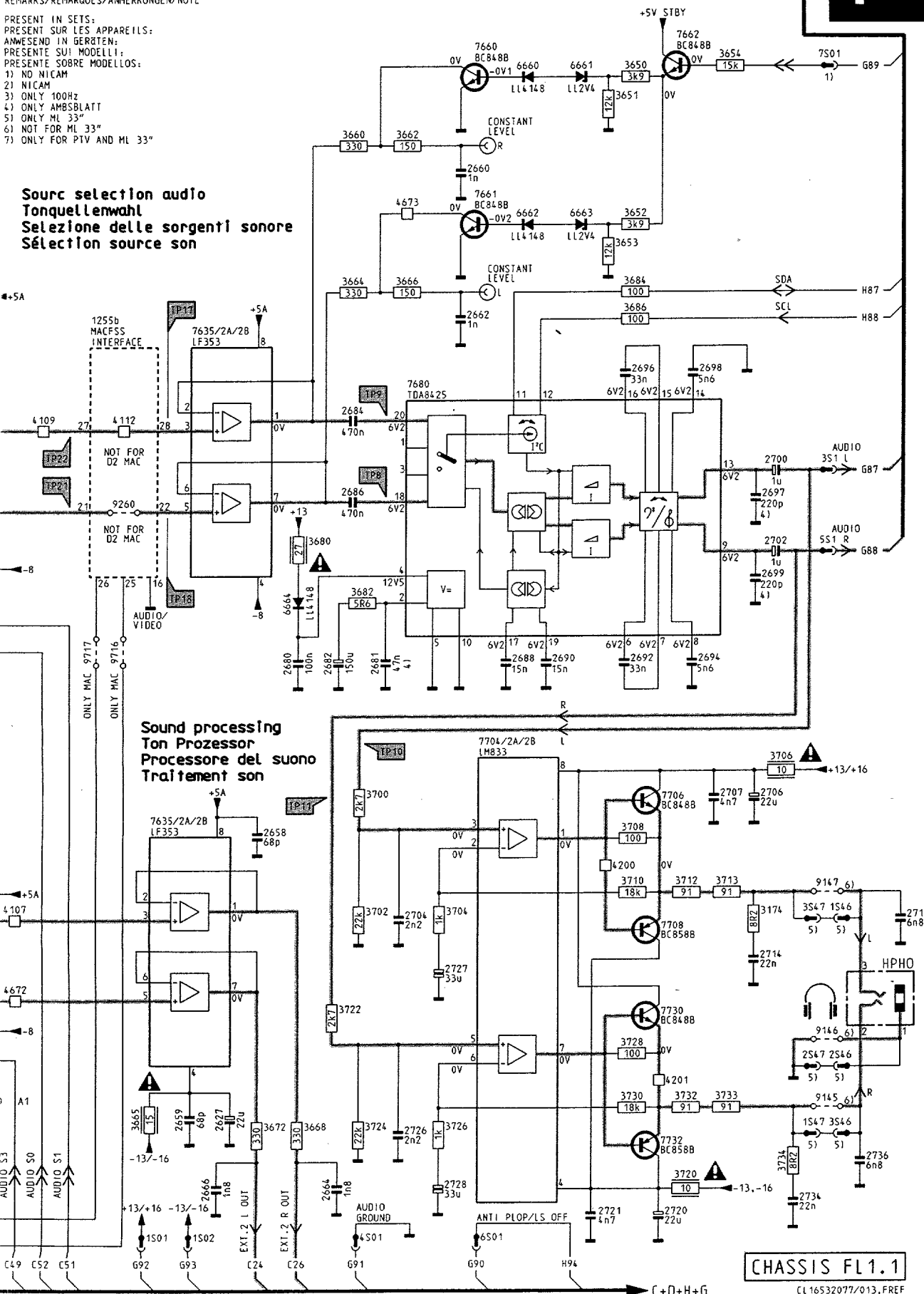


## Traitement audio

REMARKS/REMARKS/ANMERKUNGEN/NOTE

PRESENT IN SETS:  
PRESENT SUR LES APPAREILS:  
ANWESENDE IN GERÄTEN:  
PRESENTI SUI MODELLI:  
PRESENTI SOTTO MODELLI:  
1) NO NICAM  
2) NICAM  
3) ONLY 100Hz  
4) ONLY AMBSBLATT  
5) ONLY ML 33"  
6) NOT FOR ML 33"  
7) ONLY FOR PTV AND ML 33"

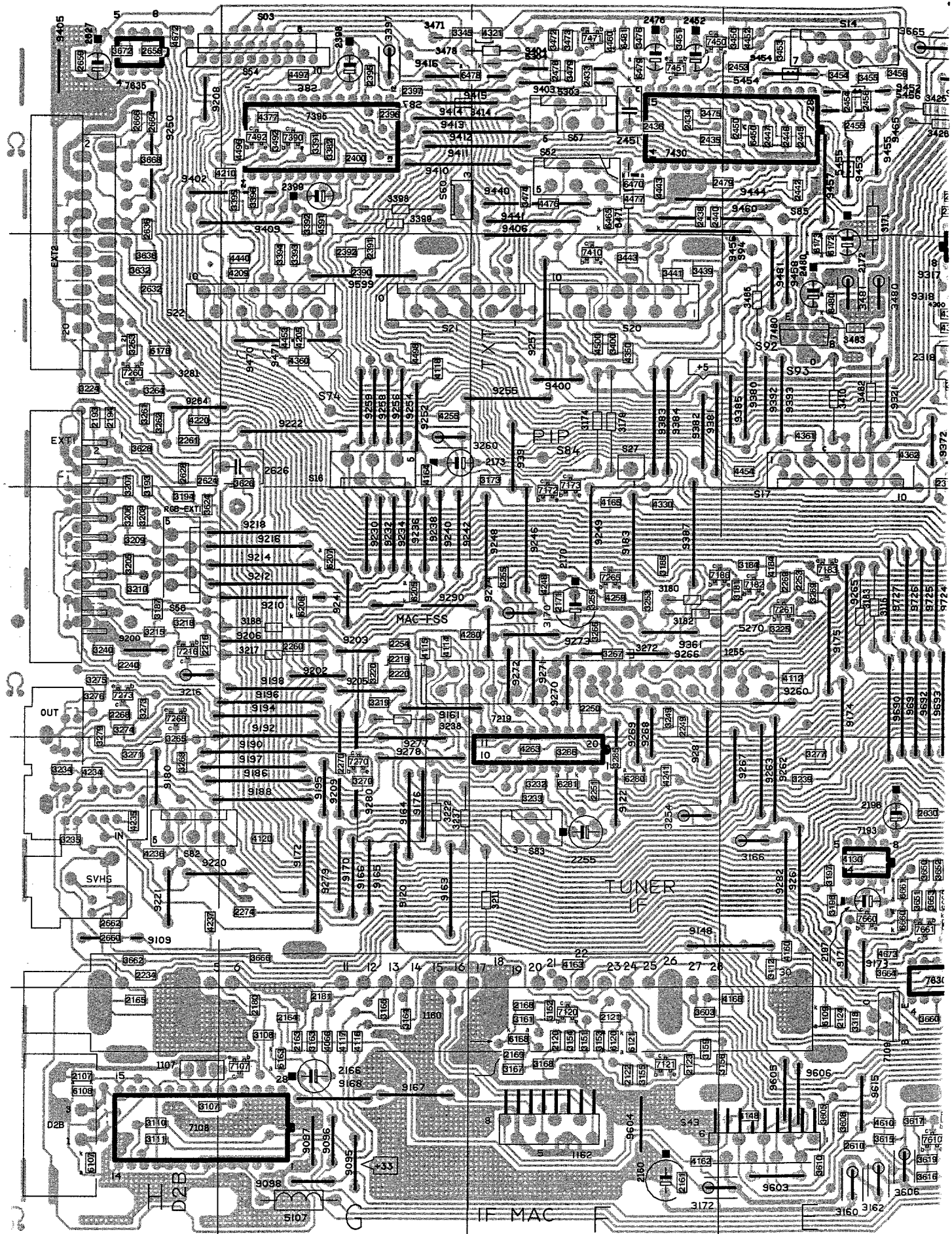
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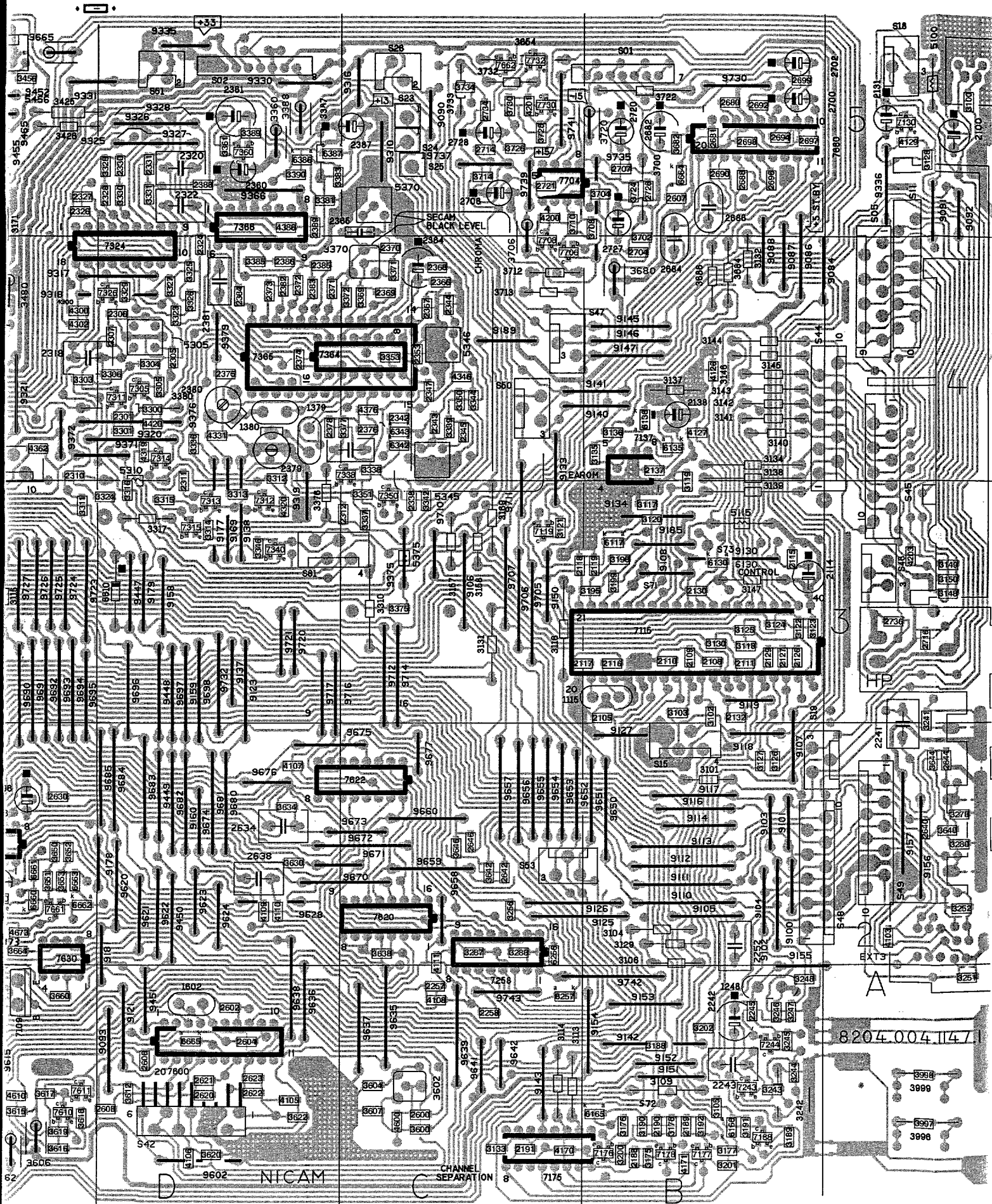


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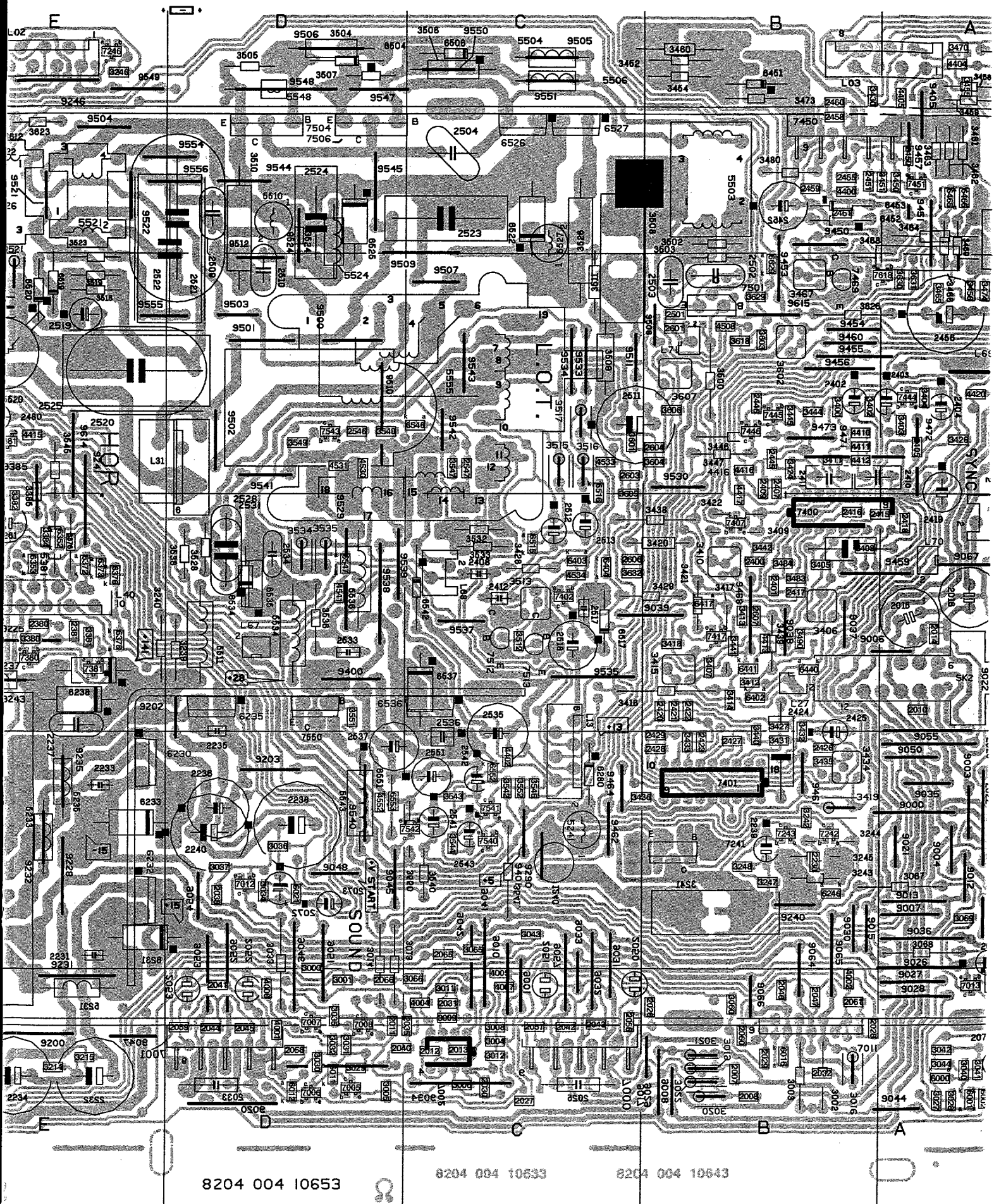
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| 2600 | G 2 | 3734 | N19 |
| 2602 | H 1 | 4105 | G 4 |
| 2604 | D 2 | 4106 | G 5 |
| 2606 | N 3 | 4107 | K11 |
| 2608 | M 2 | 4109 | F11 |
| 2616 | D 3 | 4110 | D 7 |
| 2620 | H 5 | 4112 | F12 |
| 2622 | H 3 | 4166 | D 5 |
| 2624 | B 6 | 4200 | K17 |
| 2626 | A 7 | 4201 | M18 |
| 2627 | M13 | 4255 | N 4 |
| 2628 | C 6 | 4600 | F 2 |
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| 2634 | C 7 | 4673 | C15 |
| 2636 | D 6 | 6610 | N 4 |
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| 2646 | F 7 | 6664 | H14 |
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| 2659 | M12 | 7600 | I 1 |
| 2660 | C16 | 7610 | C 3 |
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| 2664 | N14 | 7620 | A 9 |
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| 2680 | H14 | 7635 | E12 |
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| 2692 | H17 | 7706 | J18 |
| 2694 | H18 | 7708 | K18 |
| 2696 | E17 | 7730 | L18 |
| 2697 | G19 | 7732 | N18 |
| 2698 | E18 | 9145 | M20 |
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| 2706 | J19 | 9615 | D 2 |
| 2707 | J18 | 9641 | G 2 |
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| 2716 | K20 | 9717 | H11 |
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| 2728 | N15 |      |     |
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| 3617 | B 3 |      |     |
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| 3619 | C 2 |      |     |
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| 3626 | B 7 |      |     |
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| 3638 | D 7 |      |     |
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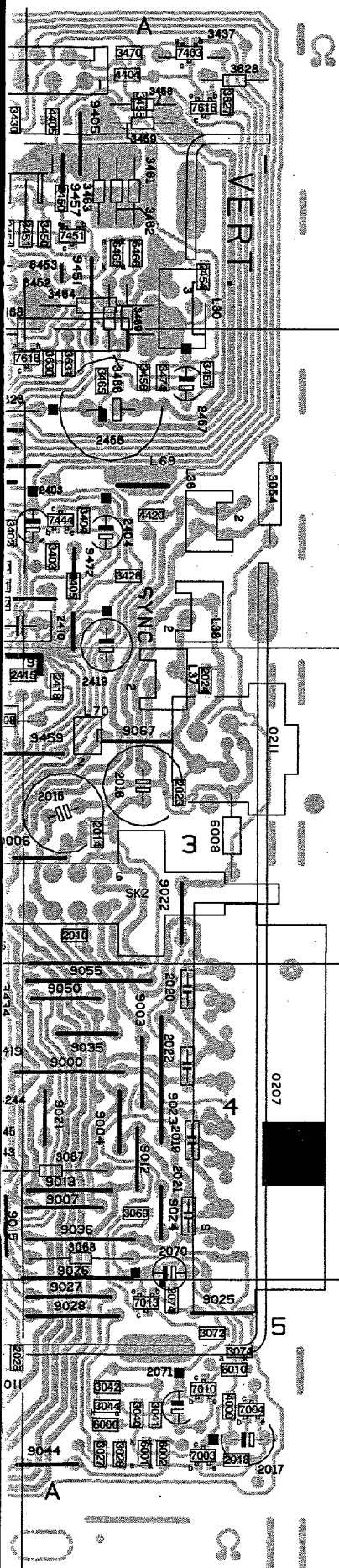








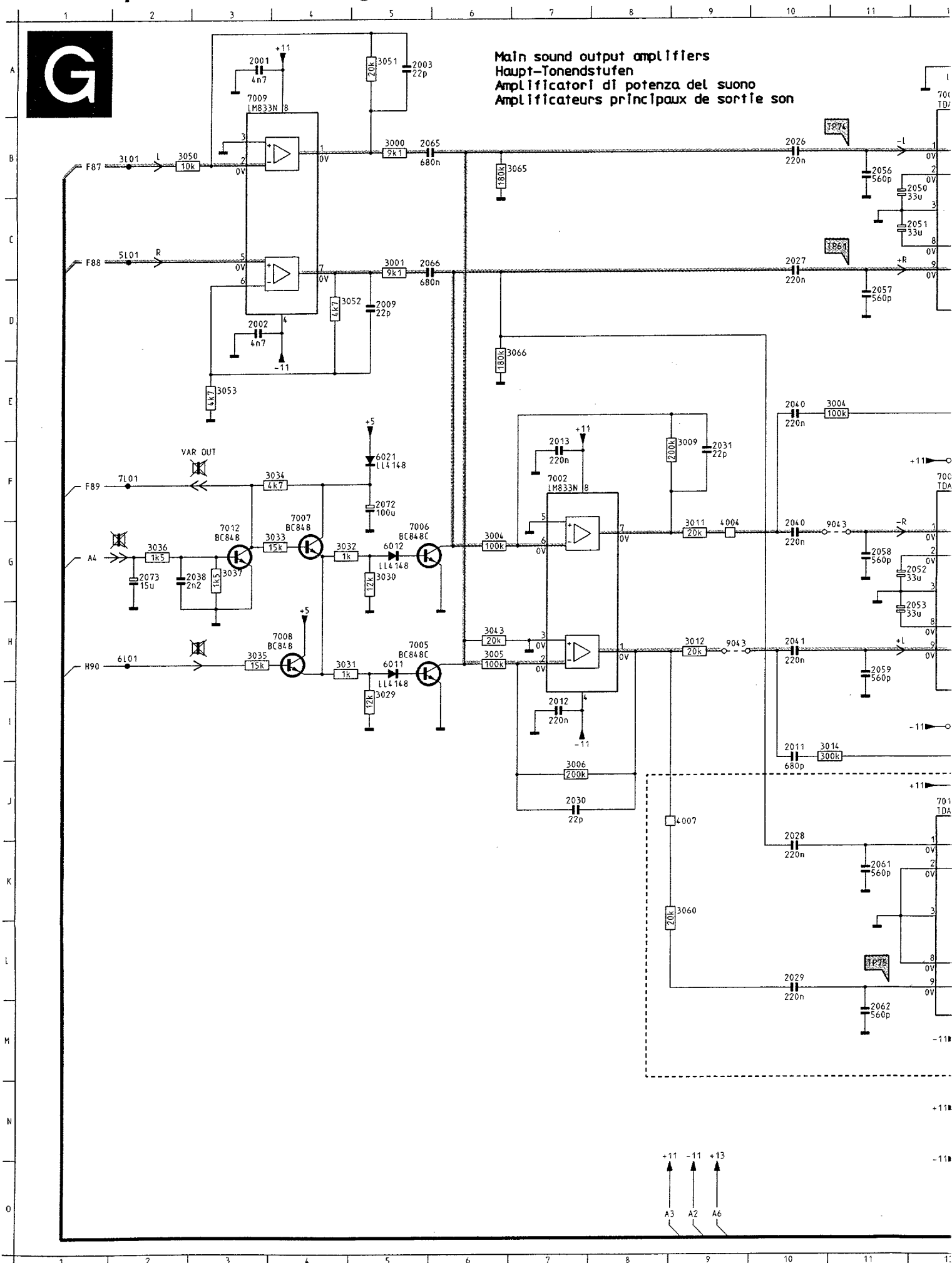


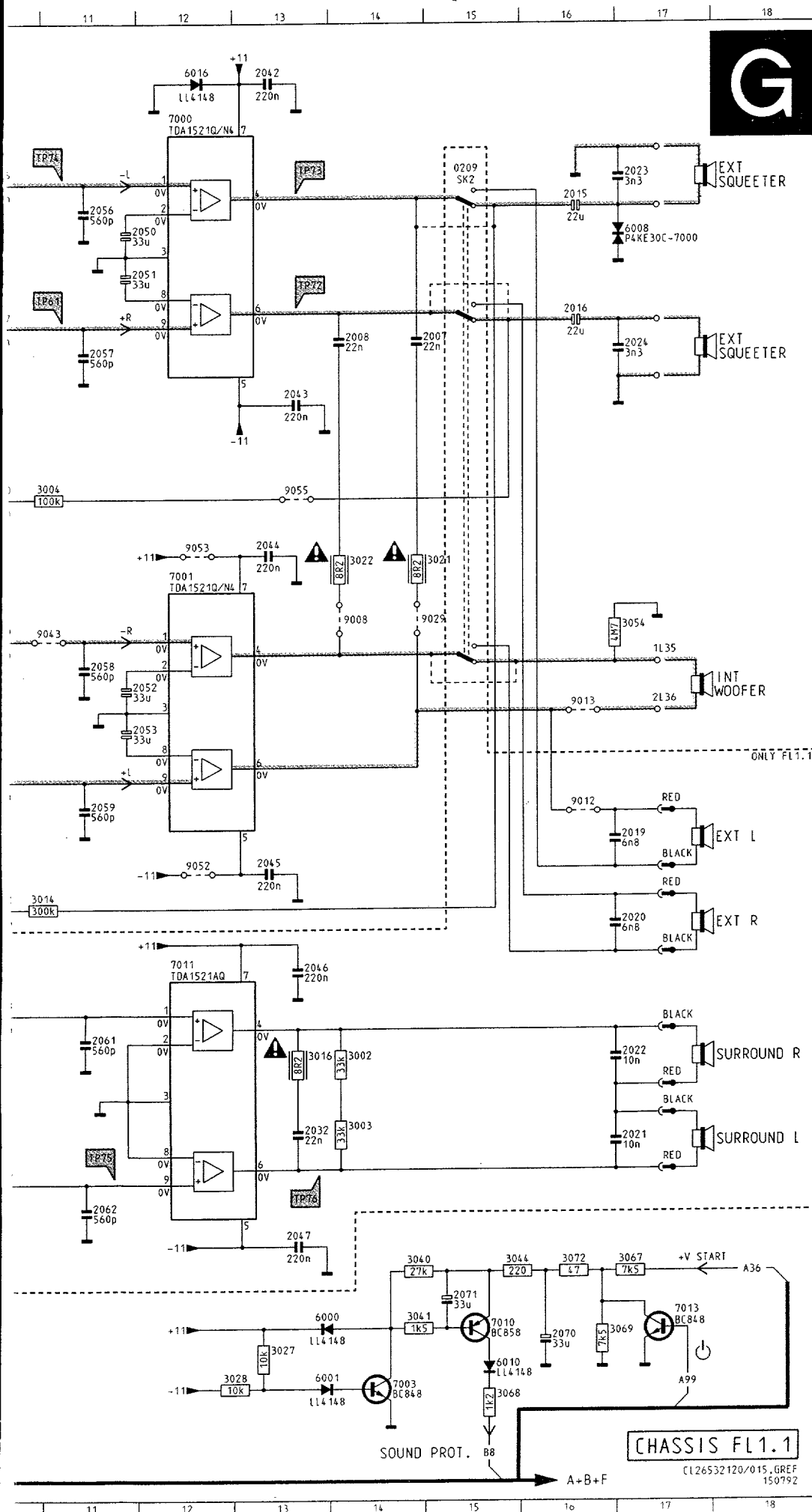


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Main sound output amplifiers  
Haupt-Tonendstufen  
Amplificatori di potenza del suono  
Amplificateurs principaux de sortie son





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|------|-----|------|-----|
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| 2002 | D 3 | 9013 | G16 |
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| 2007 | D14 | 9043 | G11 |
| 2008 | D14 | 9043 | H 9 |
| 2009 | D 5 | 9052 | I12 |
| 2011 | I10 | 9053 | F12 |
| 2012 | I 7 | 9055 | E13 |

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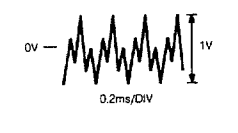
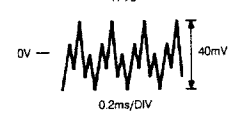
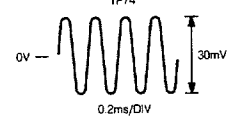
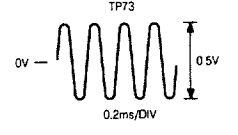
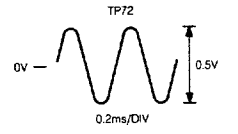
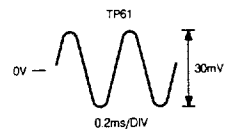
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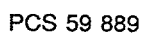
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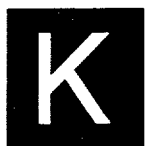
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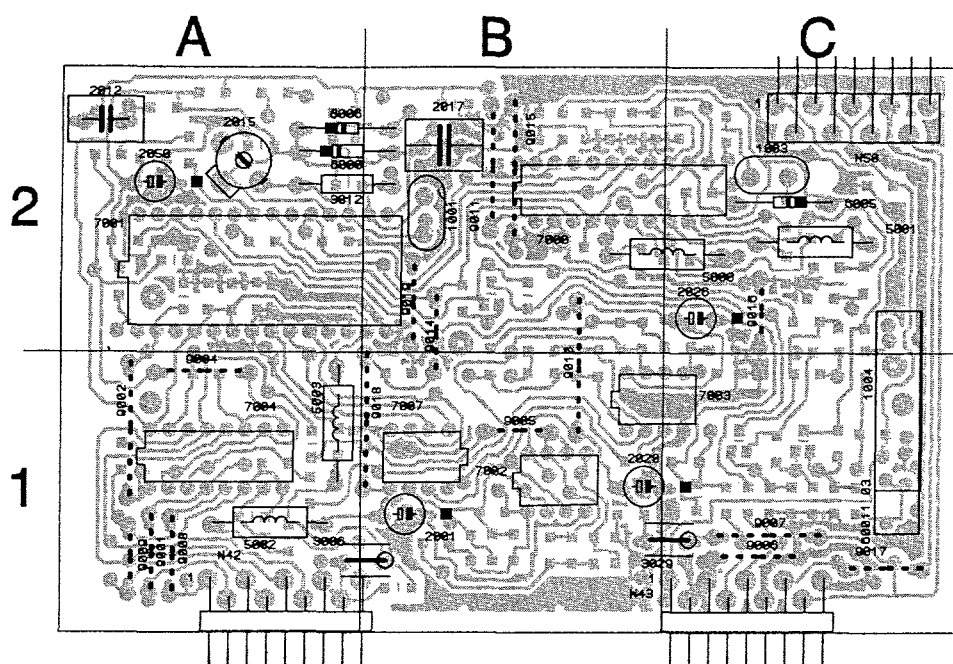
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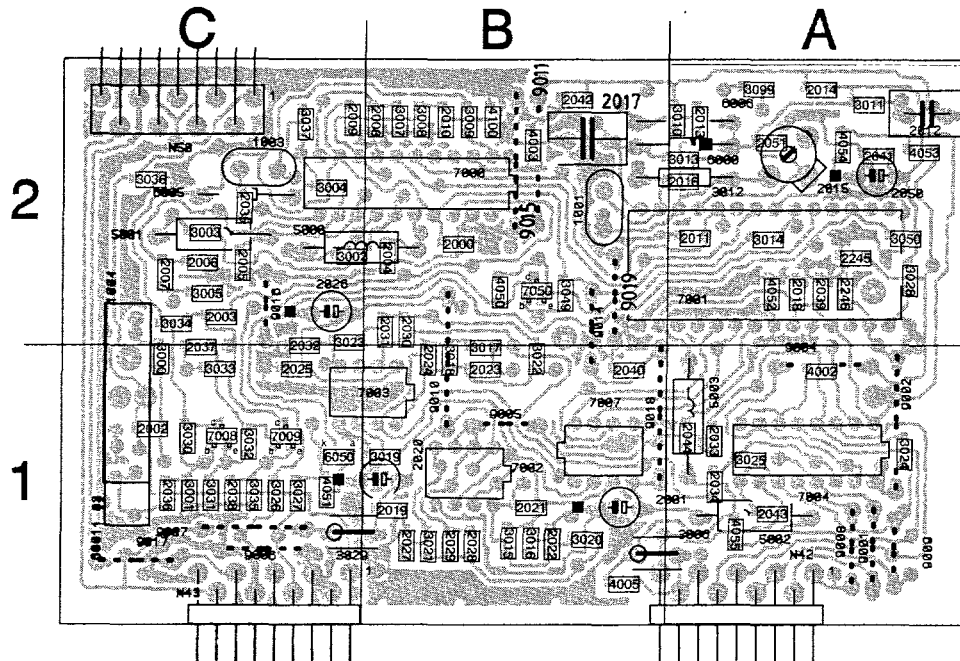


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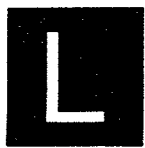
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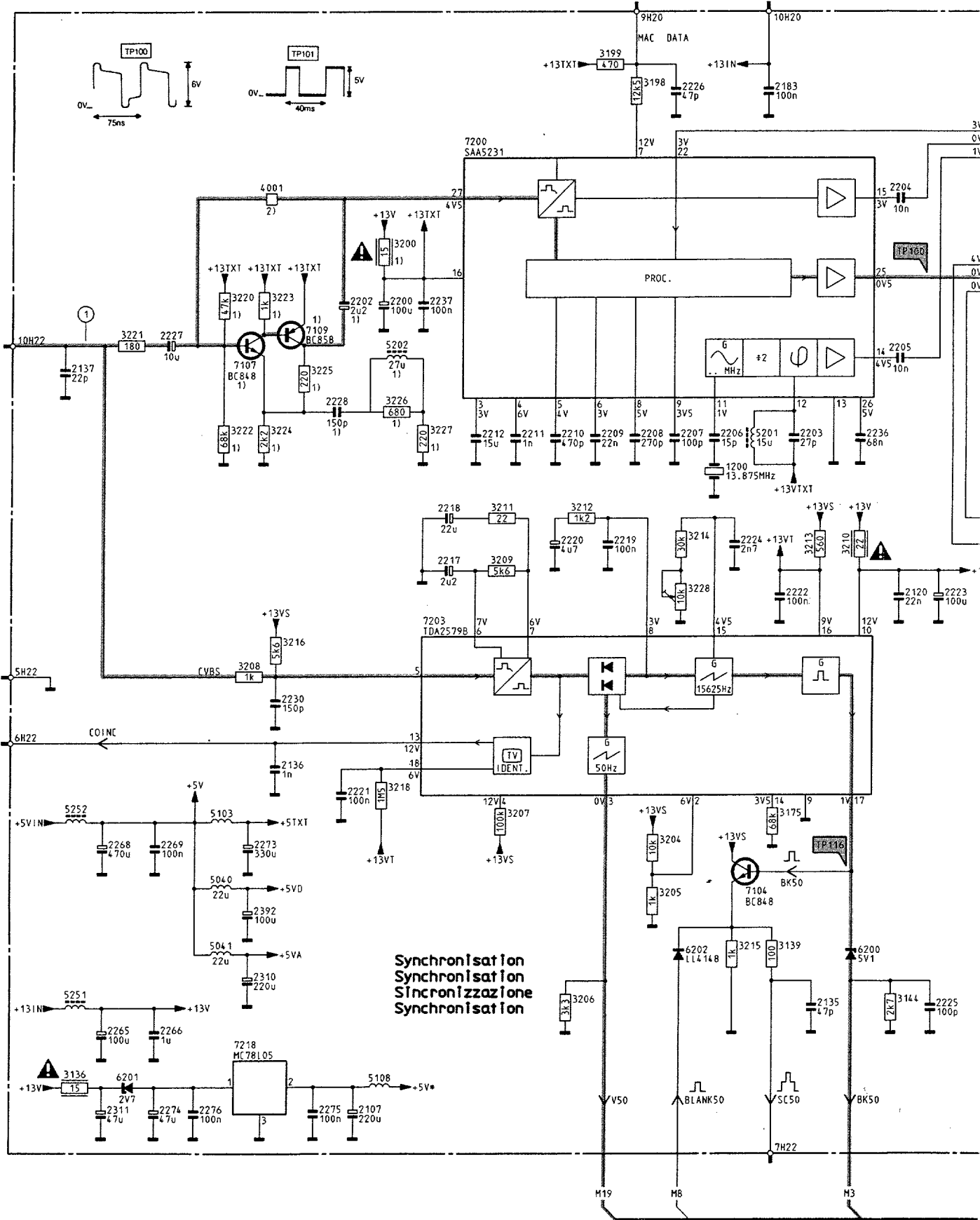
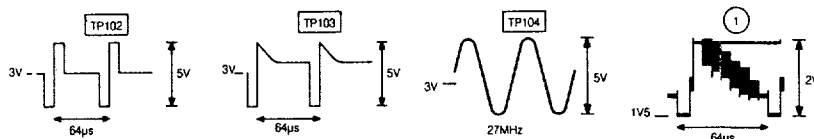
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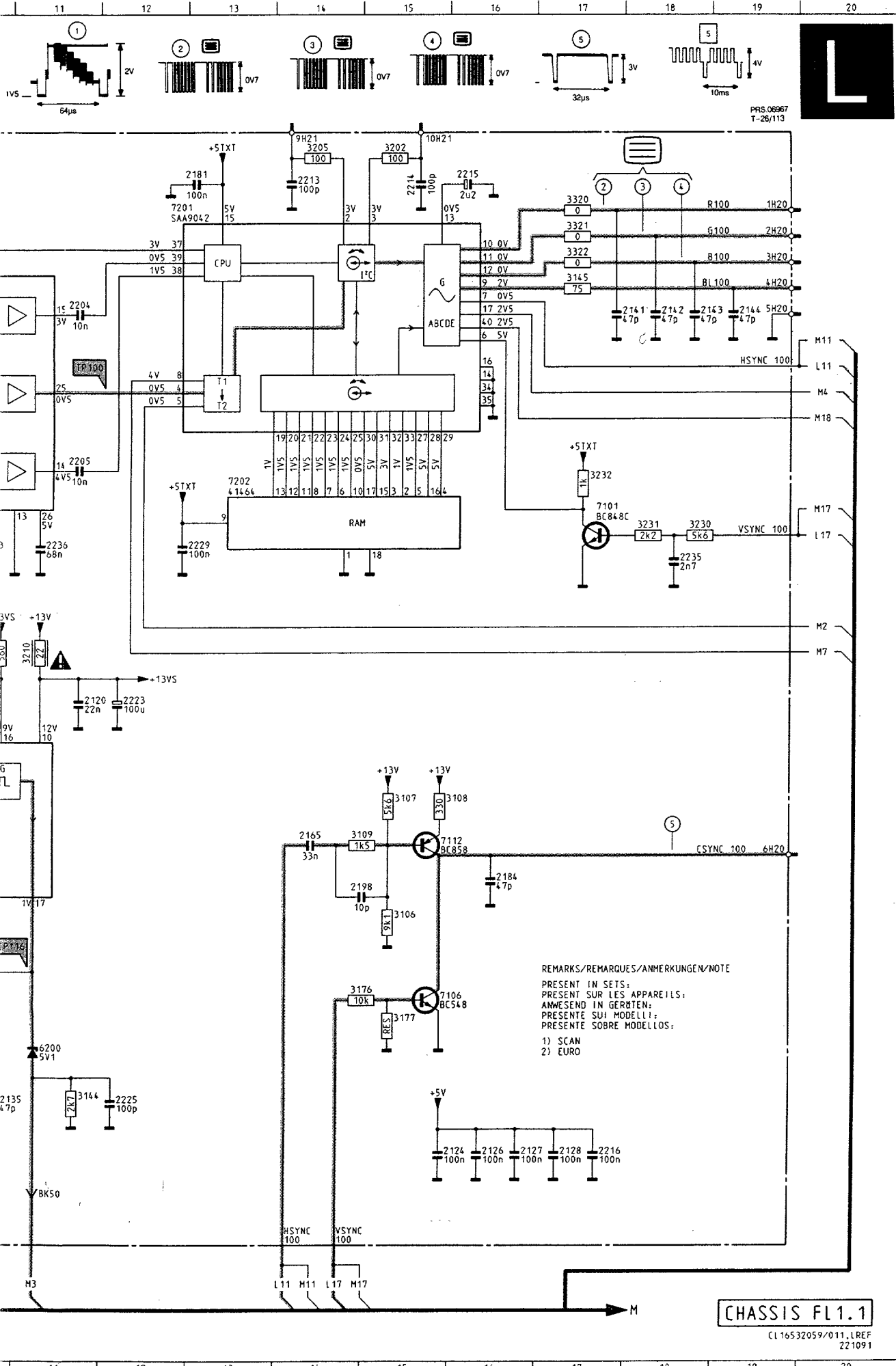


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HIGH-END BOX TXT-DECODER  
DÉCODEUR TXT  
DECODIFICATORE TELEVIDEO





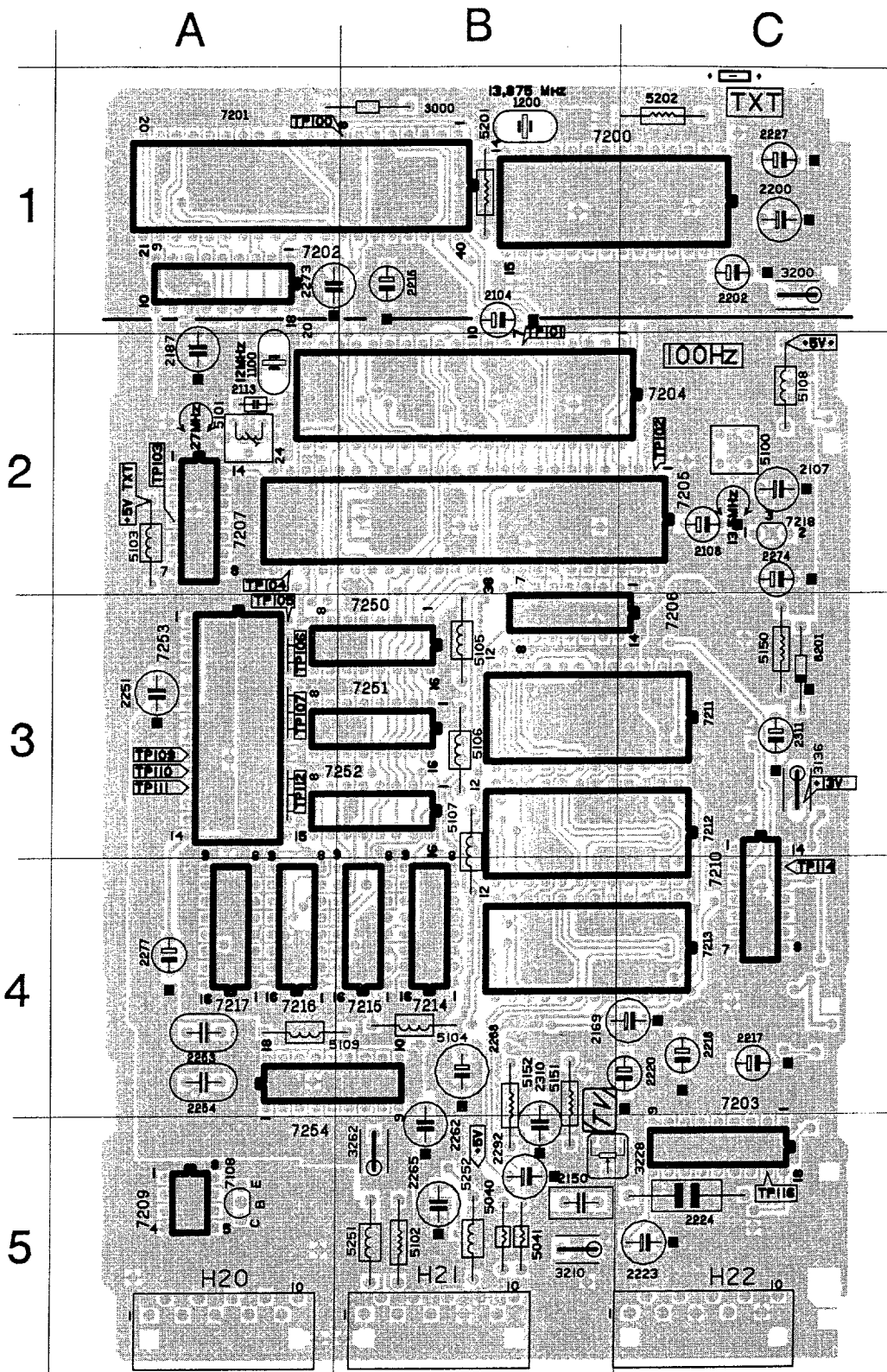
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REMARKS/REMARQUES/ANMERKUNGEN/NOTE  
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PRESENT SUR LES APPAREILS:  
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2) EURO

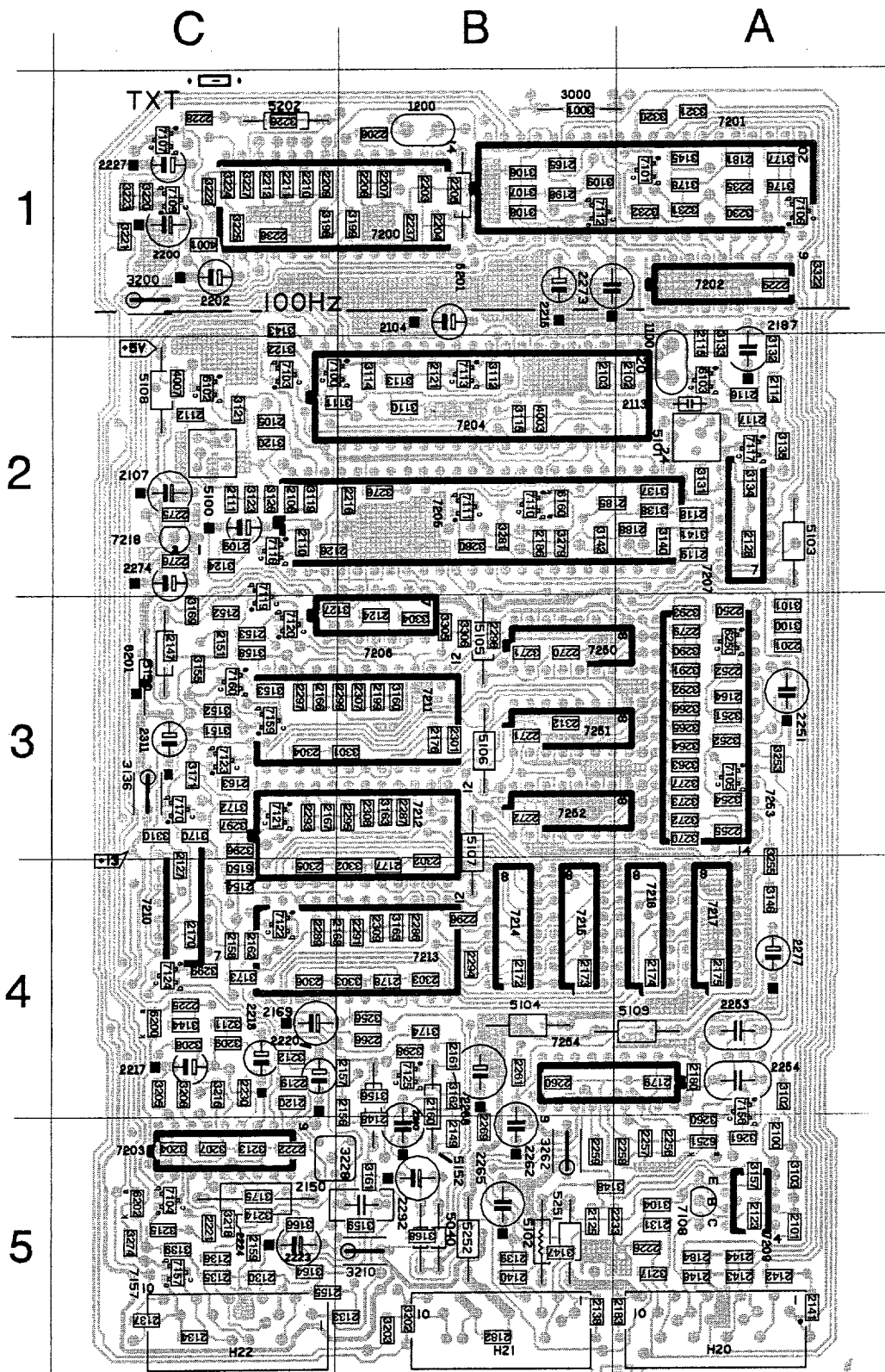
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H20 A5  
H21 B5  
H22 C5



## High-end box



|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| H20 A5  | 2117 A2 | 2141 A5 | 2163 C3 | 2185 B2 |
| H21 B5  | 2118 A2 | 2142 A5 | 2164 A3 | 2186 B2 |
| H22 C5  | 2119 A2 | 2143 A5 | 2165 B1 | 2187 A2 |
| 1200 B1 | 2120 C4 | 2144 A5 | 2166 C3 | 2188 B2 |
| 2100 A5 | 2121 B2 | 2146 A5 | 2167 C3 | 2188 B1 |
| 2101 A5 | 2123 A5 | 2147 C3 | 2168 C4 | 2199 B3 |
| 2102 B2 | 2124 B3 | 2148 B4 | 2169 C4 | 2200 C1 |
| 2103 B2 | 2125 B5 | 2149 B5 | 2170 C4 | 2201 A3 |
| 2104 B1 | 2126 C2 | 2150 C5 | 2172 B4 | 2202 C1 |
| 2105 C2 | 2127 C3 | 2151 C3 | 2173 B4 | 2203 B1 |
| 2106 C2 | 2128 A2 | 2152 C3 | 2174 A4 | 2204 B1 |
| 2107 C2 | 2130 C5 | 2153 C3 | 2175 A4 | 2205 B1 |
| 2108 C2 | 2131 A5 | 2154 C4 | 2176 B3 | 2206 B1 |
| 2109 C2 | 2133 C5 | 2155 C5 | 2177 B4 | 2207 B1 |
| 2110 C2 | 2134 C5 | 2156 C4 | 2178 B4 | 2208 C1 |
| 2111 C2 | 2135 C5 | 2157 C4 | 2179 A4 | 2209 C1 |
| 2112 C2 | 2136 C5 | 2158 C4 | 2180 A4 | 2210 C1 |
| 2113 A2 | 2137 C5 | 2159 C5 | 2181 A1 | 2211 C1 |
| 2114 A2 | 2138 B5 | 2160 B4 | 2182 B5 |         |
| 2115 A2 | 2139 B5 | 2161 B4 | 2183 B5 |         |
| 2116 A2 | 2140 B5 | 2162 C4 | 2184 A5 |         |

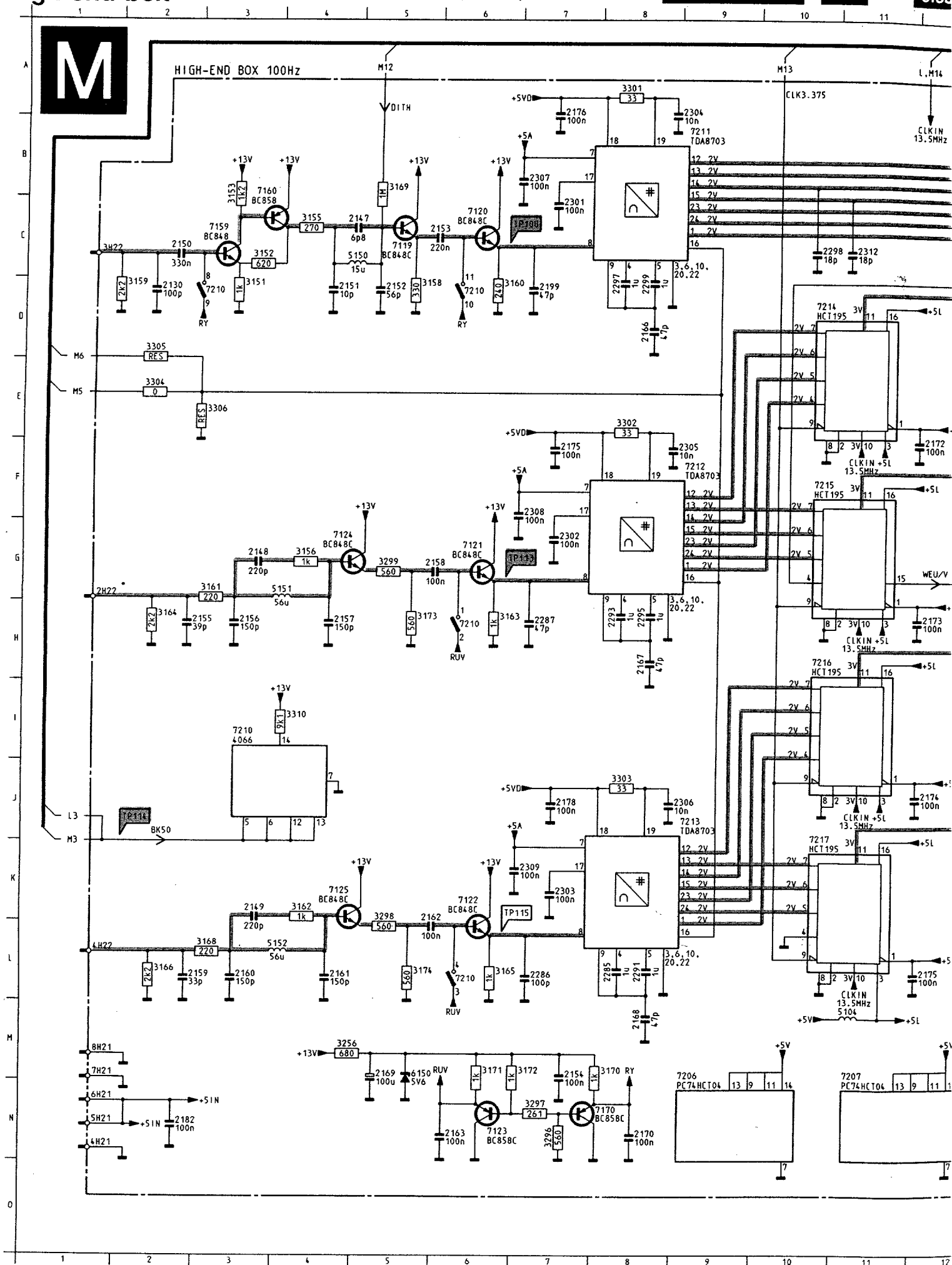
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| 2212 C1 | 3137 A2 | 3302 C4 |
| 2215 B1 | 3138 A2 | 3303 C4 |
| 2216 C2 | 3139 C5 | 3304 B3 |
| 2217 C4 | 3140 A2 | 3305 B3 |
| 2218 C4 | 3141 A2 | 3306 B3 |
| 2219 C4 | 3142 B2 | 3310 C3 |
| 2220 C4 | 3143 C1 | 3320 A1 |
| 2221 C5 | 3144 C4 | 3321 A1 |
| 2222 C5 | 3145 A1 | 3322 A1 |
| 2223 C5 | 3146 A4 | 4001 C1 |
| 2224 C5 | 3147 B5 | 4003 B2 |
| 2225 C4 | 3148 B5 | 4007 C2 |
| 2226 A5 | 3151 C3 | 5040 B5 |
| 2227 C1 | 3152 C3 | 5041 B5 |
| 2228 C1 | 3153 C3 | 5100 C2 |
| 2229 A1 | 3155 C3 | 5101 A2 |
| 2230 C4 | 3156 B4 | 5102 B5 |
| 2233 B5 | 3157 A5 | 5103 A2 |
| 2235 A1 | 3158 C3 | 5104 B4 |
| 2236 C1 | 3159 C5 | 5105 B3 |
| 2237 B1 | 3160 B3 | 5106 B3 |
| 2250 A3 | 3161 B5 | 5107 B3 |
| 2251 A3 | 3162 B4 | 5108 C2 |
| 2252 A3 | 3163 B3 | 5109 B4 |
| 2253 A4 | 3164 C5 | 5150 C3 |
| 2254 A4 | 3165 B4 | 5151 B4 |
| 2255 A3 | 3166 C5 | 5152 B4 |
| 2256 A5 | 3168 B5 | 5201 B1 |
| 2257 A5 | 3169 C3 | 5202 C1 |
| 2258 B5 | 3170 C3 | 5251 B5 |
| 2259 B5 | 3171 C3 | 5252 B5 |
| 2260 B4 | 3172 C3 | 6102 C2 |
| 2261 B4 | 3173 C4 | 6103 A2 |
| 2262 B5 | 3174 B4 | 6150 C4 |
| 2265 B5 | 3175 C5 | 6160 B2 |
| 2266 B4 | 3176 A1 | 6200 C4 |
| 2268 B4 | 3177 A1 | 6201 C3 |
| 2269 B5 | 3178 A1 | 6202 C5 |
| 2270 B3 | 3198 C1 | 6250 A3 |
| 2271 B3 | 3199 C1 | 6251 A5 |
| 2272 B3 | 3200 C1 | 7100 C2 |
| 2273 B1 | 3202 B5 | 7101 B1 |
| 2274 C2 | 3203 B5 | 7103 C2 |
| 2275 C2 | 3204 C5 | 7104 C5 |
| 2276 C2 | 3205 C4 | 7105 A3 |
| 2277 A4 | 3206 C4 | 7106 A1 |
| 2279 A3 | 3207 C5 | 7107 C1 |
| 2286 B4 | 3208 C4 | 7108 A5 |
| 2287 B3 | 3209 C4 | 7109 C1 |
| 2289 C4 | 3210 B5 | 7110 B2 |
| 2291 C4 | 3211 C4 | 7111 B2 |
| 2292 B5 | 3212 C4 | 7112 B1 |
| 2293 C3 | 3213 C5 | 7113 B2 |
| 2294 B4 | 3214 C5 | 7116 C2 |
| 2295 C3 | 3215 C5 | 7117 A2 |
| 2296 B4 | 3216 C4 | 7119 C2 |
| 2297 C3 | 3217 A5 | 7120 C3 |
| 2298 B3 | 3218 C5 | 7121 C3 |
| 2299 C3 | 3220 C1 | 7122 C4 |
| 2301 B3 | 3221 C1 | 7123 C3 |
| 2302 B3 | 3222 C1 | 7124 C4 |
| 2303 B4 | 3223 C1 | 7125 B4 |
| 2304 C3 | 3224 C1 | 7156 A4 |
| 2305 C4 | 3225 C1 | 7157 C5 |
| 2306 C4 | 3226 C1 | 7159 C3 |
| 2307 C3 | 3227 C1 | 7160 C3 |
| 2308 B3 | 3228 C5 | 7170 C3 |
| 2309 B4 | 3230 A1 | 7200 C1 |
| 2310 B5 | 3231 A1 | 7201 B1 |
| 2311 C3 | 3232 B1 | 7202 A1 |
| 2312 B3 | 3251 A3 | 7203 C5 |
| 3000 B1 | 3252 A3 | 7204 C2 |
| 3001 B1 | 3253 A3 | 7205 C2 |
| 3100 A3 | 3254 A3 | 7206 C2 |
| 3101 A3 | 3255 A3 | 7207 A2 |
| 3102 A4 | 3256 B4 | 7209 A5 |
| 3103 A5 | 3260 A4 | 7210 C3 |
| 3104 A5 | 3261 A5 | 7211 C3 |
| 3106 B1 | 3262 B5 | 7212 C3 |
| 3107 B1 | 3263 A3 | 7213 C4 |
| 3108 B1 | 3264 A3 | 7214 B4 |
| 3109 B1 | 3265 A3 | 7215 B4 |
| 3110 B2 | 3266 A3 | 7216 B4 |
| 3111 C2 | 3270 A3 | 7217 A4 |
| 3112 B2 | 3271 B3 | 7218 C2 |
| 3113 B2 | 3272 A3 | 7250 B3 |
| 3114 B2 | 3273 A3 | 7251 B3 |
| 3115 B2 | 3274 C5 | 7252 B3 |
| 3119 C2 | 3276 B2 | 7253 A3 |
| 3120 C2 | 3277 A3 | 7254 A4 |
| 3121 C2 | 3279 B2 |         |
| 3122 C2 | 3280 B2 |         |
| 3123 C2 | 3281 B2 |         |
| 3124 C2 | 3290 A3 |         |
| 3126 C2 | 3291 A3 |         |
| 3127 C3 | 3292 A3 |         |
| 3131 A2 | 3293 A3 |         |
| 3132 A2 | 3296 C3 |         |
| 3133 A2 | 3297 C3 |         |
| 3134 A2 | 3298 B4 |         |
| 3135 A2 | 3299 C4 |         |
| 3136 C3 | 3301 C3 |         |

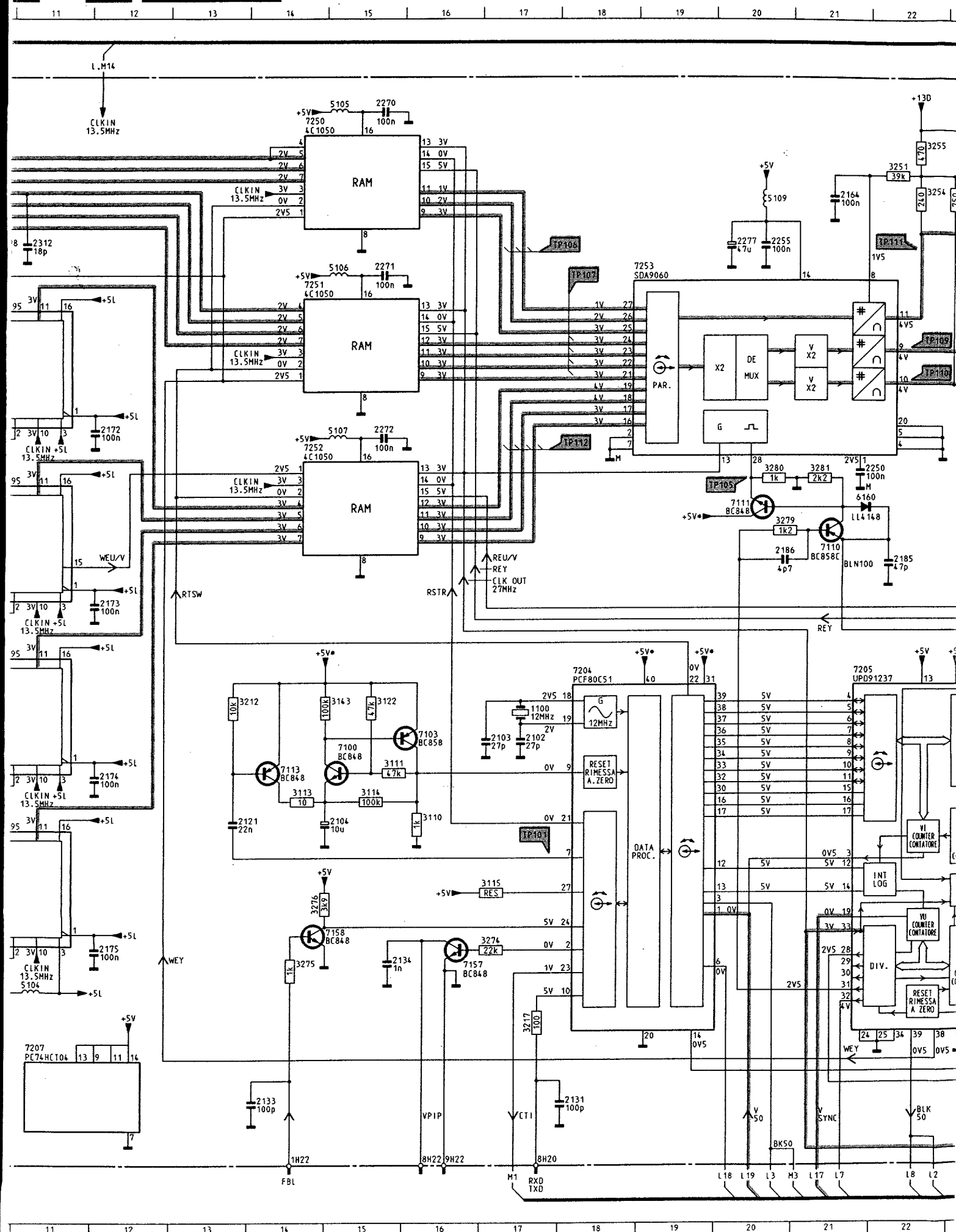
# High-end box

CHASSIS FL1.1

6.52

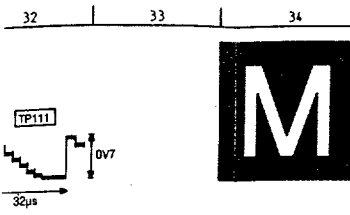
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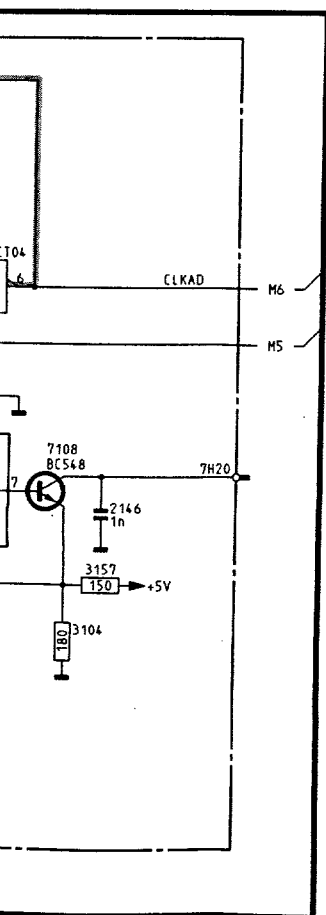




L1.1 6.54 6.55 CHASSIS FL1.1

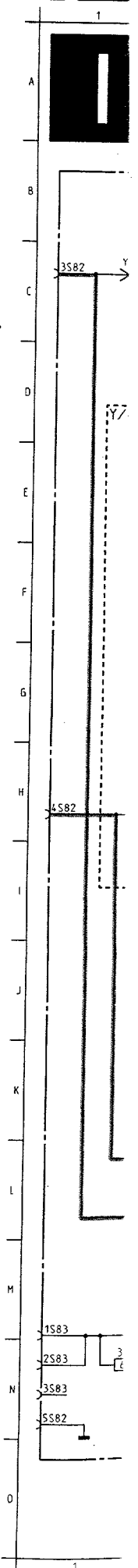


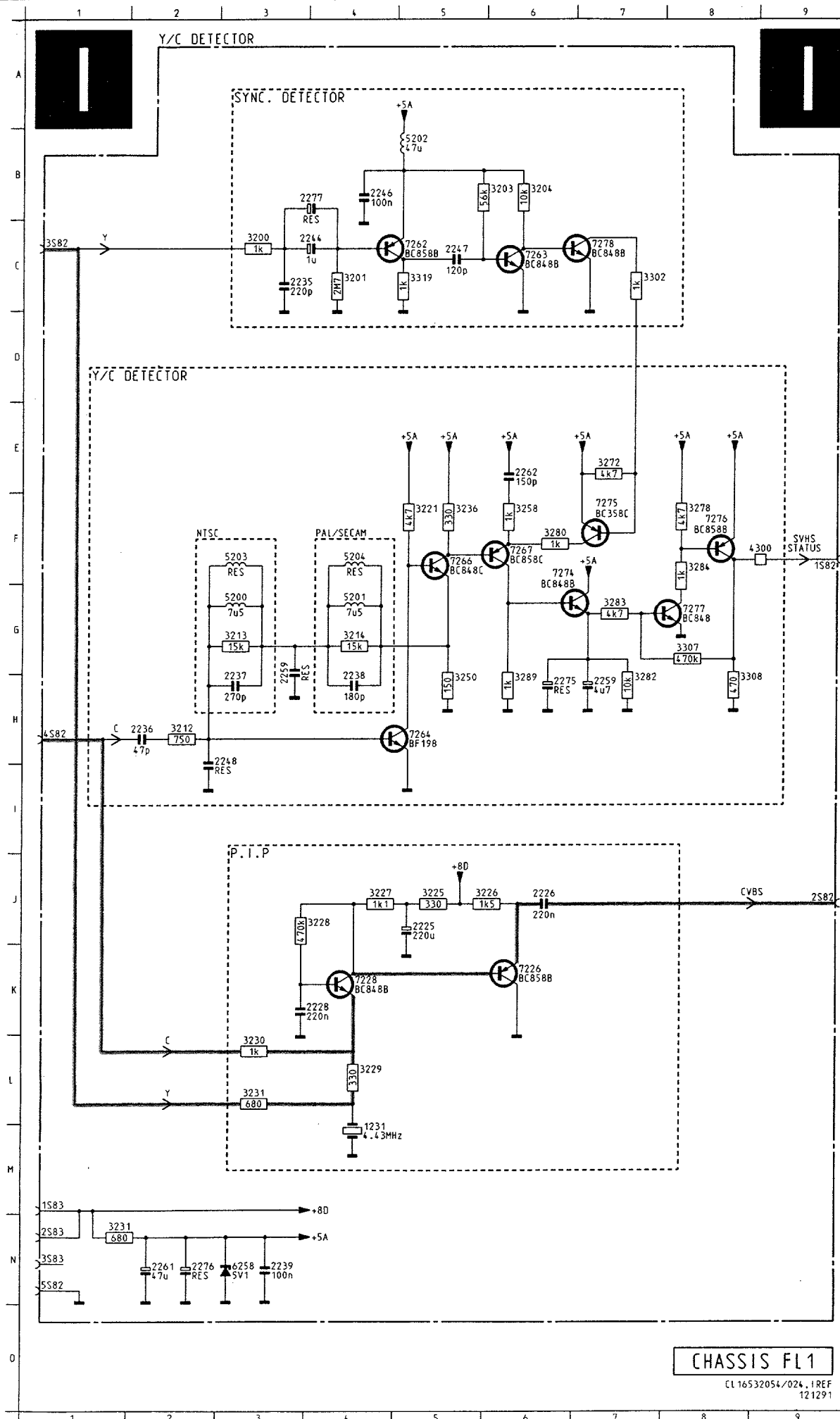
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T-26/113



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221091

|      |     |      |     |      |     |
|------|-----|------|-----|------|-----|
| 1100 | I17 | 3115 | K17 | 7207 | M31 |
| 2100 | K29 | 3119 | J26 | 7207 | M31 |
| 2101 | L30 | 3120 | J26 | 7209 | K30 |
| 2102 | J17 | 3121 | J27 | 7210 | D 3 |
| 2103 | J17 | 3122 | I15 | 7210 | D 6 |
| 2104 | K15 | 3124 | I29 | 7210 | H 6 |
| 2105 | J26 | 3124 | M29 | 7210 | L 6 |
| 2106 | J27 | 3125 | I28 | 7210 | I 3 |
| 2108 | I28 | 3126 | J29 | 7211 | B 9 |
| 2109 | I29 | 3127 | J29 | 7212 | F 9 |
| 2110 | I29 | 3131 | M30 | 7213 | J 9 |
| 2111 | J28 | 3132 | M28 | 7214 | D10 |
| 2112 | L30 | 3133 | M29 | 7215 | F10 |
| 2113 | M27 | 3135 | N29 | 7216 | H10 |
| 2114 | M28 | 3137 | N26 | 7217 | K10 |
| 2115 | M29 | 3138 | M26 | 7250 | B14 |
| 2116 | N29 | 3140 | M25 | 7251 | D14 |
| 2117 | N28 | 3141 | M25 | 7252 | F14 |
| 2118 | M25 | 3142 | N25 | 7253 | D18 |
| 2119 | M25 | 3143 | I15 | 7254 | D24 |
| 2121 | K13 | 3146 | B25 |      |     |
| 2123 | K32 | 3147 | C26 |      |     |
| 2125 | B26 | 3148 | C25 |      |     |
| 2130 | D 2 | 3151 | D 3 |      |     |
| 2131 | N18 | 3152 | C 3 |      |     |
| 2133 | N14 | 3153 | B 3 |      |     |
| 2134 | L15 | 3155 | C 4 |      |     |
| 2138 | C27 | 3156 | G 4 |      |     |
| 2139 | E27 | 3157 | L33 |      |     |
| 2140 | E27 | 3158 | D 5 |      |     |
| 2146 | L33 | 3159 | D 2 |      |     |
| 2147 | C 4 | 3160 | D 6 |      |     |
| 2148 | G 3 | 3161 | G 3 |      |     |
| 2149 | K 3 | 3162 | K 4 |      |     |
| 2150 | C 2 | 3163 | H 6 |      |     |
| 2151 | D 4 | 3164 | H 2 |      |     |
| 2152 | D 5 | 3165 | L 6 |      |     |
| 2153 | C 5 | 3166 | L 2 |      |     |
| 2154 | M 7 | 3168 | L 3 |      |     |
| 2155 | H 2 | 3169 | B 5 |      |     |
| 2156 | H 3 | 3170 | M 8 |      |     |
| 2157 | H 4 | 3171 | M 6 |      |     |
| 2158 | G 5 | 3172 | M 7 |      |     |
| 2159 | L 2 | 3173 | H 5 |      |     |
| 2160 | L 3 | 3174 | L 5 |      |     |
| 2161 | L 4 | 3212 | I13 |      |     |
| 2162 | L 5 | 3217 | M17 |      |     |
| 2164 | C21 | 3251 | B22 |      |     |
| 2166 | D 8 | 3252 | B23 |      |     |
| 2167 | H 8 | 3253 | B23 |      |     |
| 2168 | M 8 | 3254 | B22 |      |     |
| 2169 | M 5 | 3255 | B22 |      |     |
| 2172 | F12 | 3256 | M 4 |      |     |
| 2173 | H12 | 3262 | F27 |      |     |
| 2174 | J12 | 3274 | L17 |      |     |
| 2175 | L12 | 3275 | L14 |      |     |
| 2175 | F 7 | 3279 | G20 |      |     |
| 2176 | B 7 | 3280 | F20 |      |     |
| 2178 | J 7 | 3281 | F21 |      |     |
| 2179 | E24 | 3296 | N 7 |      |     |
| 2180 | E23 | 3297 | N 7 |      |     |
| 2182 | N 2 | 3298 | L 5 |      |     |
| 2182 | N 8 | 3299 | G 5 |      |     |
| 2182 | N 6 | 3301 | A 8 |      |     |
| 2185 | G22 | 3302 | E 8 |      |     |
| 2186 | G20 | 3303 | J 8 |      |     |
| 2187 | M30 | 3304 | E 2 |      |     |
| 2188 | M26 | 3305 | D 2 |      |     |
| 2199 | D 7 | 3306 | E 3 |      |     |
| 2201 | K28 | 3310 | I 4 |      |     |
| 2233 | C26 | 4007 | I27 |      |     |
| 2250 | F21 | 5100 | J28 |      |     |
| 2251 | C24 | 5101 | N28 |      |     |
| 2252 | C25 | 5102 | C26 |      |     |
| 2253 | D23 | 5104 | M11 |      |     |
| 2254 | E23 | 5105 | A15 |      |     |
| 2255 | C20 | 5106 | D15 |      |     |
| 2256 | F24 | 5107 | F15 |      |     |
| 2257 | F25 | 5109 | C20 |      |     |
| 2258 | F25 | 5150 | C 4 |      |     |
| 2259 | F26 | 5151 | G 4 |      |     |
| 2260 | F26 | 5152 | L 4 |      |     |
| 2261 | G26 | 6102 | I27 |      |     |
| 2262 | G27 | 6103 | M27 |      |     |
| 2270 | A15 | 6150 | M 5 |      |     |
| 2271 | D15 | 6160 | F21 |      |     |
| 2272 | F15 | 6250 | C24 |      |     |
| 2277 | C20 | 7100 | J15 |      |     |
| 2286 | L 7 | 7103 | I16 |      |     |
| 2287 | H 7 | 7105 | C25 |      |     |
| 2289 | L 8 | 7108 | K32 |      |     |
| 2291 | L 8 | 7110 | G21 |      |     |
| 2293 | H 8 | 7111 | G20 |      |     |
| 2295 | H 8 | 7113 | J14 |      |     |
| 2297 | D 8 | 7116 | J29 |      |     |
| 2298 | C10 | 7117 | N29 |      |     |
| 2299 | D 8 | 7119 | C 5 |      |     |
| 2301 | C 7 | 7120 | C 6 |      |     |
| 2302 | G 7 | 7121 | G 6 |      |     |
| 2303 | K 7 | 7122 | K 6 |      |     |
| 2304 | B 9 | 7123 | N 6 |      |     |
| 2305 | F 9 | 7124 | G 4 |      |     |
| 2306 | J 9 | 7125 | K 4 |      |     |
| 2307 | B 7 | 7157 | L16 |      |     |
| 2308 | F 7 | 7158 | L15 |      |     |
| 2309 | K 7 | 7159 | C 3 |      |     |
| 2312 | C11 | 7160 | B 3 |      |     |
| 3100 | K29 | 7170 | N 8 |      |     |
| 3101 | L28 | 7204 | I18 |      |     |
| 3102 | L29 | 7205 | I21 |      |     |
| 3103 | L29 | 7206 | M 9 |      |     |
| 3104 | M32 | 7206 | J30 |      |     |
| 3110 | J16 | 7206 | J31 |      |     |
| 3111 | J15 | 7206 | J32 |      |     |
| 3113 | J14 | 7207 | M11 |      |     |
| 3114 | J15 | 7207 | N30 |      |     |





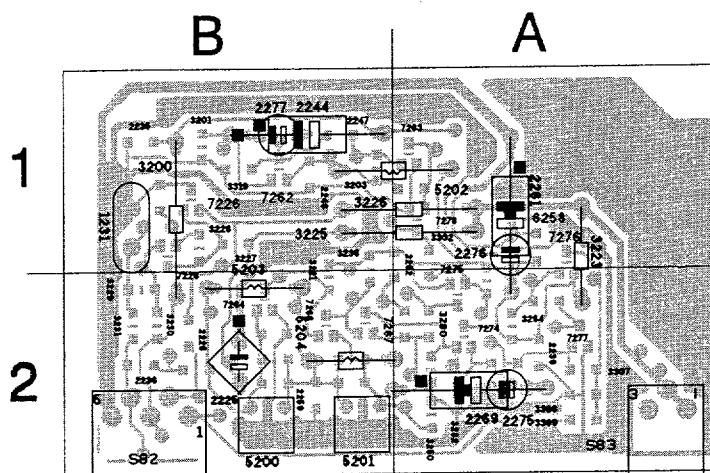
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2226 J 6  
2228 K 3  
2235 C 3  
2236 H 2  
2237 H 3  
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2239 N 3  
2244 C 4  
2246 B 4  
2247 C 5  
2248 I 2  
2259 G 3  
2259 H 7  
2261 N 2  
2262 E 6  
2275 H 6  
2276 N 2  
2277 B 4  
3200 C 3  
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

Y/C

Y/C Detector panel

Y/C Detektor Platine

Platine du détecteur Y/C



|         |         |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|
| 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 |         |

# Electrical adjustments

## Setting conditions

- \* Unless stated otherwise, the supply voltage used is:  
220 - 240V  $\pm$  10%; 50 - 60Hz  $\pm$  5%
- \* Voltages and oscillograms are measured in relation to tuner earth. **Never** use the cooling plates as earth.
- \* Warming-up time  $\approx$  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 Focusing

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

### 1.3 Vg2 setting

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

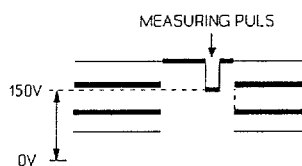


Fig. 7.1

### 1.9 Picture height

Set using potentiometer R3410.

### 1.10 East/West correction

Set using potentiometer R3602.

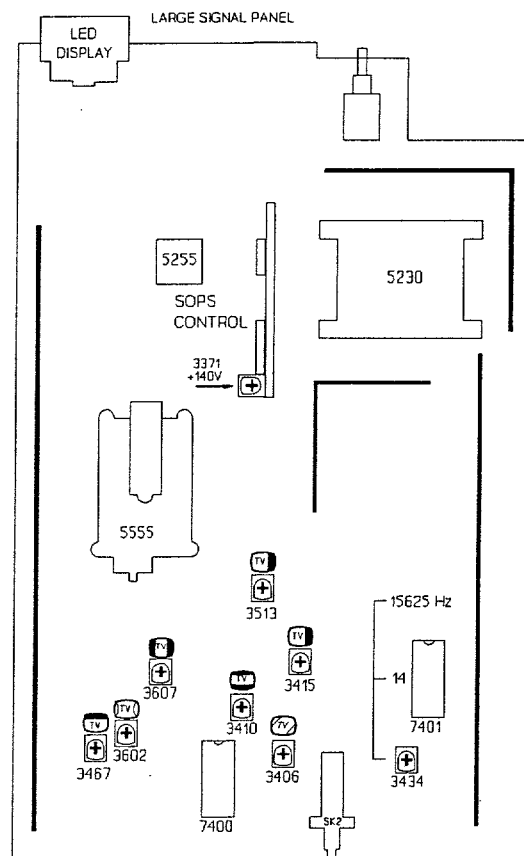


Fig. 7.2

### 1.4 Stable OSD

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

### 1.5 Horizontal synchronisation

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

### 1.6 Horizontal centring

Set using potentiometer R3513.

### 1.7 Picture width

Set using potentiometer R3607.

### 1.8 Vertical centring

Set using potentiometer R3467.

## 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<sub>rms</sub>.  
Connect point 26-IC7365 to point 13-IC7365.  
Connect an oscilloscope to point 15 of IC7365.  
Set L5346 to minimum amplitude.  
Remove the short circuit.

#### 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<sub>rms</sub>.  
Connect point 28-IC7365 to point 13-IC7365.  
Connect an oscilloscope to point 15 of IC7365.  
Set L5346 to minimum amplitude.  
Remove the short circuit.

#### 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.

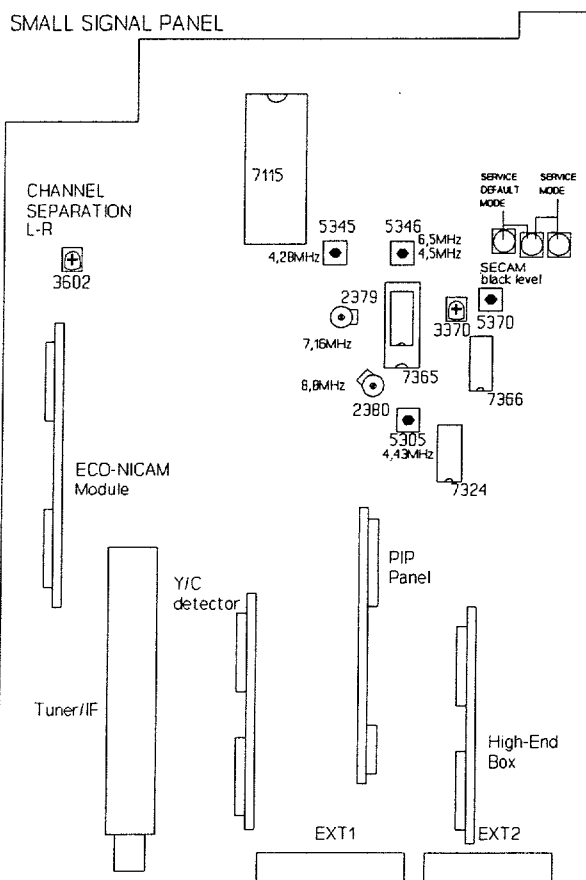


Fig. 7.3

#### 4. Electrical settings on the ECO-NICAM decoder panel

#### 4.1 Neutral frequency adjustment

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

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

The block diagram illustrates the ECO NICAM circuit. It features a 2015 camera at the top left, connected to a 7001 SAA 7280 IC. The 7001 is connected to a 7004 DTDA 8732 IC. The 7004 is connected to a 7007 TDA 1543 IC. The 7007 is connected to a 7003 LM 833 IC. The 7003 is connected to a 1 N42 IC. The 1 N42 is connected to a 1 N43 IC. The 1 N43 is connected to a 1 N50 IC. The 1 N50 is connected to the 2015 camera.

## 5. Y/C detector adjustment

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.

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

## Y/C DETECTOR

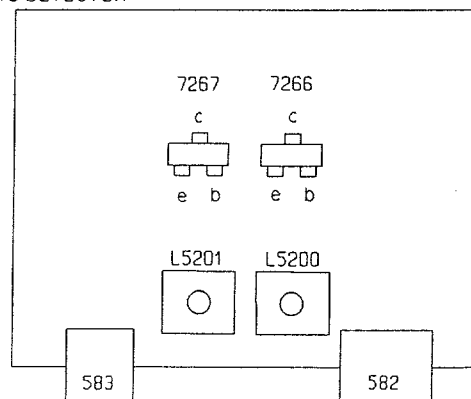


Fig. 7.7

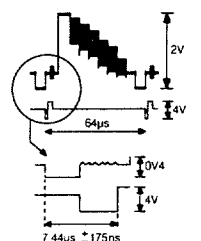


Fig. 7.4

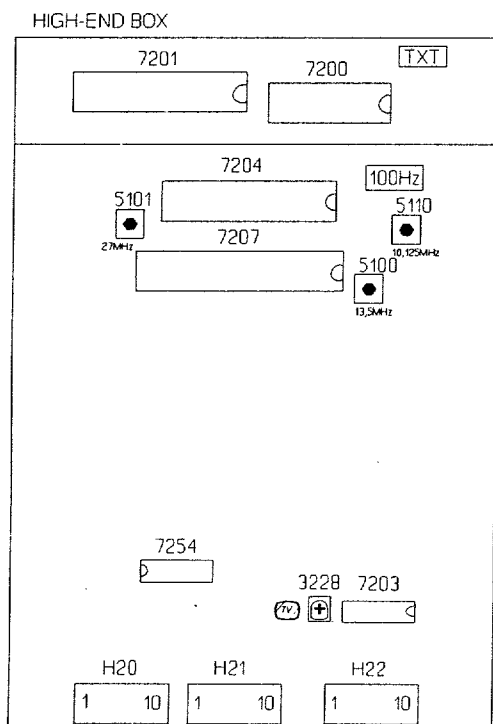


Fig. 7.5

## 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  $\approx 20$  min.).

### 6.1 Horizontal synchronisation

Supply an aerial or generator signal.  
Connect pin 28-IC7125 to pin 13-IC7125.  
Connect pin 5-IC7755 to earth.  
Measure the frequency on pin 17-IC7755 and set this to  $15,625 \text{ Hz} \pm 25 \text{ Hz}$  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  $4.43 \text{ MHz}/0.2 \text{ Vpp}$ .  
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  $4.286 \text{ MHz}/0.2 \text{ Vpp}$ .  
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.

PIP MODULE

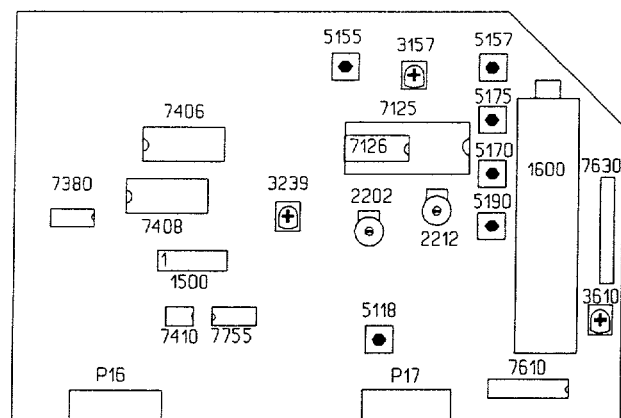


Fig. 7.8

## 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).

In the Service Mode the following menu appears in the picture:

#### SERVICE YY-MM-DD

- a option 1   xxx
- b option 2   xxx
- c green       xxx
- d blue        xxx

In this menu "YY-MM-DD" is the release date of the software which is present in the set. The desired adjustment can be selected with the aid of menu keys a, b or c on the remote control.

When the "PP store" key on the local keyboard is pressed, the adjusted values are stored in the memory and the Service Mode is left.

#### 7.1 White balance

Connect a pattern generator and choose a white picture.

- Select c (green) or d (blue)
- Using P +/- adjust the values of green ("GREEN") and blue ("BLUE") until the desired white balance has been reached.
- Store the selected value by pressing the "PP store" key on the local keyboard.

#### 7.2 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:

| Function              | Number |
|-----------------------|--------|
| 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:

| Function              | Number |
|-----------------------|--------|
| 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 a: option 1 or b: option 2
- Using P +/- set the desired option number.
- Store the value chosen by pressing the "PP store" key on the local keyboard.

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

| Optioncode 2 |                                                                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nbr.         | Function                                                                                                                                                          |
| 1            | <b>IC7175 present on SSP</b><br>Applicable in case IC7175 (PCF8574) is present on the SSP (this is the case in all FL1.1 AC sets).                                |
| 4            | <b>100 Hz High-end box fitted</b><br>This will always be the case.                                                                                                |
| 32           | <b>NICAM module present</b><br>In this case the digital sound broadcast in NICAM transmissions can also be received (see further the number 64 of option code 1). |

## 1. The Service Default Mode

The FL1.1 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 I<sup>2</sup>C 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 , 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.

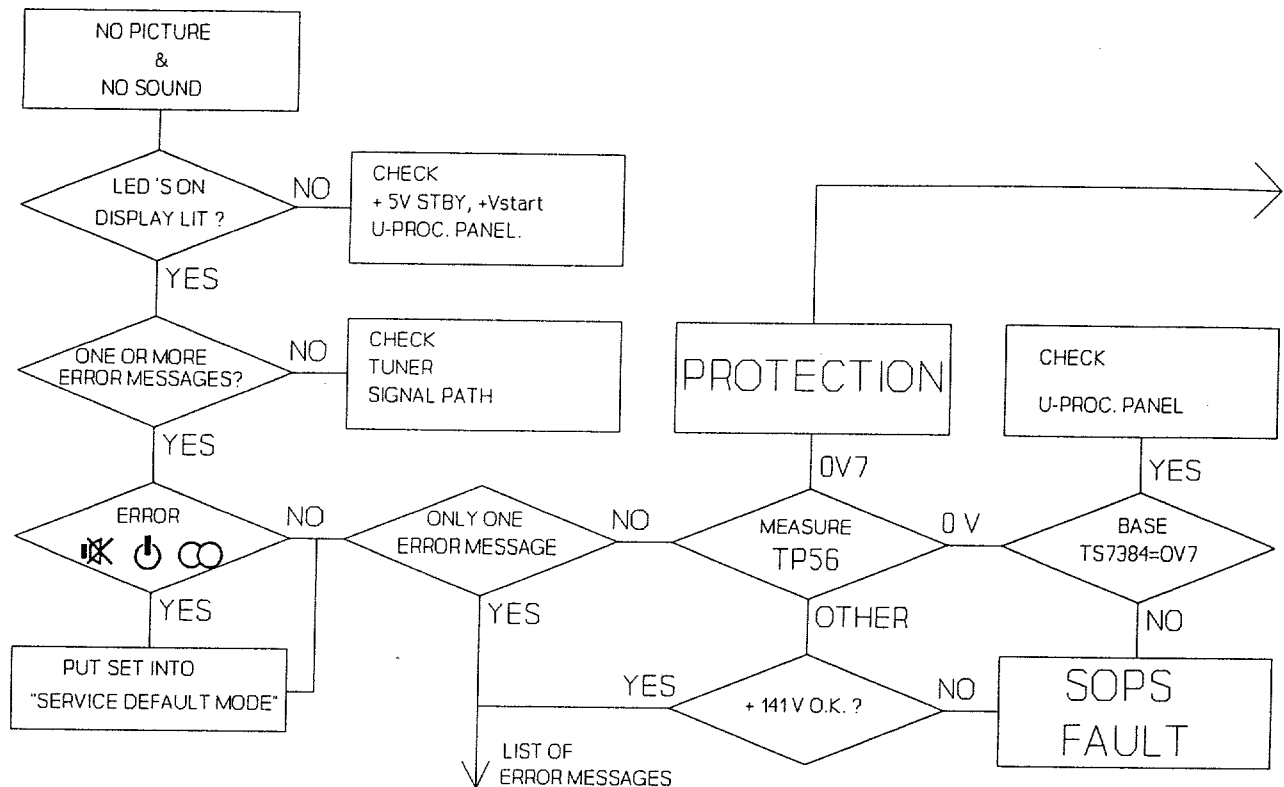
If the service mode is now activated (see section 7), the microprocessor will load the EEPROM with a number of standard values for the white balance and the other linear settings. These values, however, must all be checked and, if necessary, re-adjusted.

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

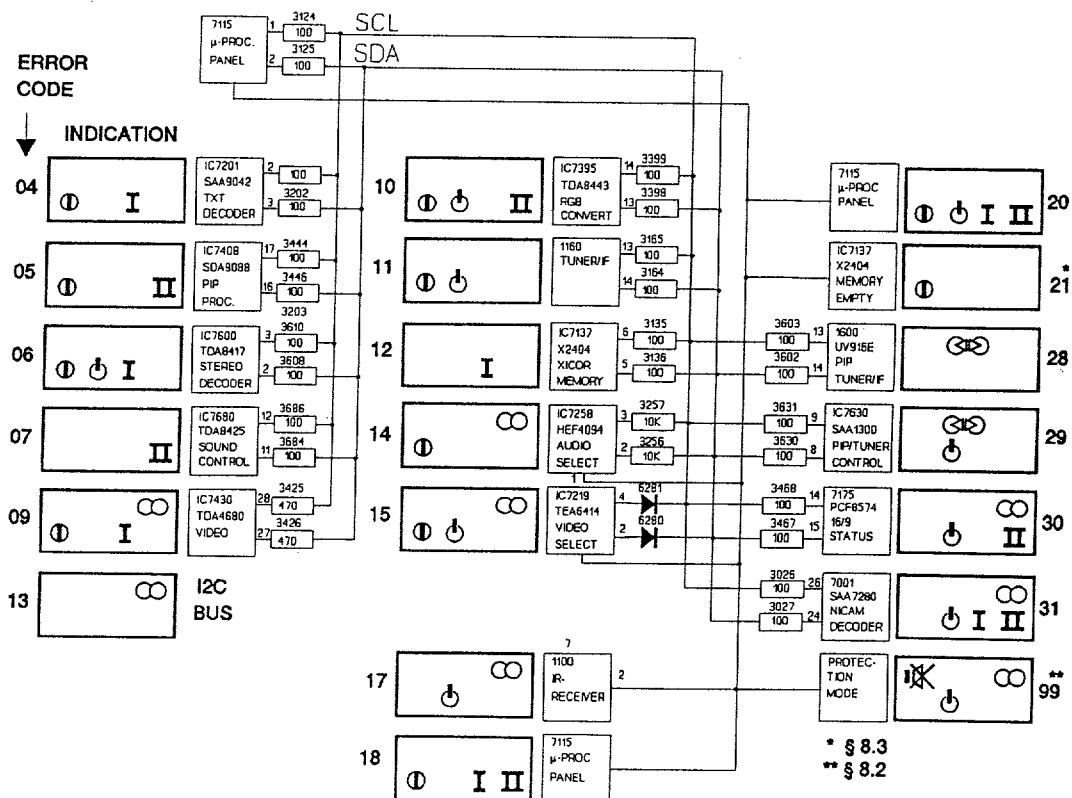
List

I<sup>2</sup>C

## Faultfindingtree



## List of error messages

I<sup>2</sup>C Blockdiagram



## Repair tips

### 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).

#### 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).

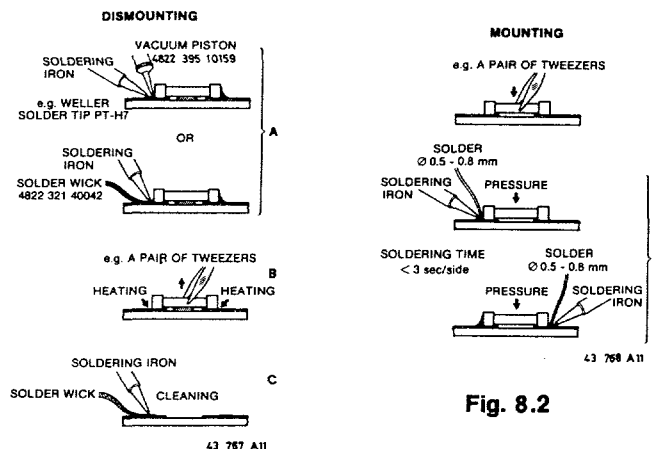


Fig. 8.1

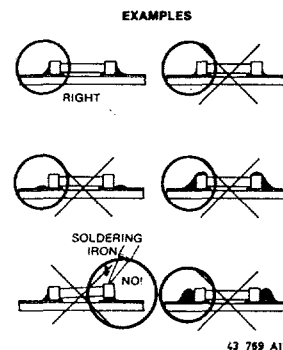
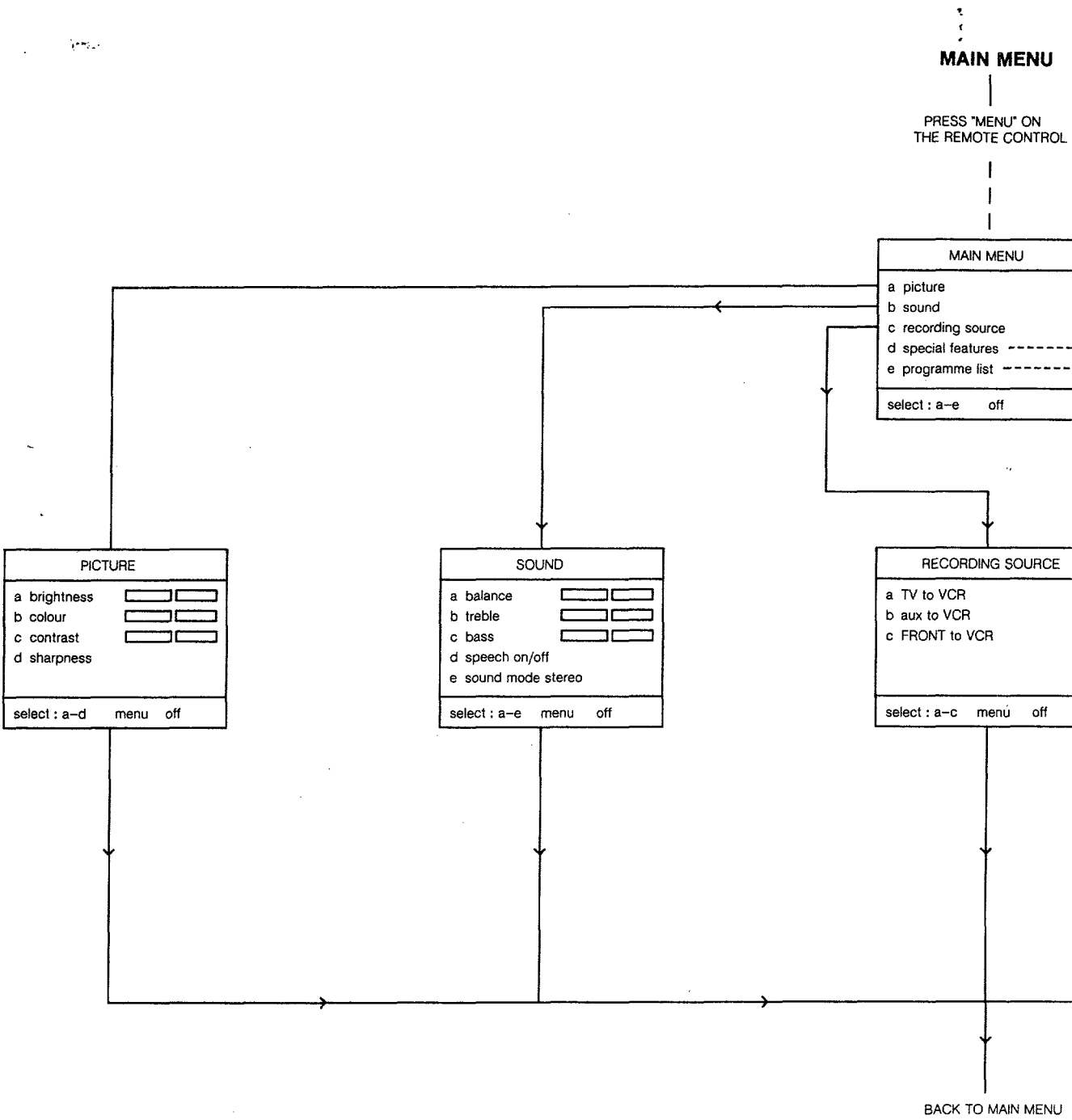


Fig. 8.3



## 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

## RECORDING SOURCE

a TV to VCR  
b aux to VCR  
c FRONT to VCR

select : a-c menu off

## SPECIAL FEATURES

a child lock  
b sleeptimer  
c display prog. No  
d demonstration  
e pip size

select : a-e menu off

stop demonstration  
by switching off  
the set

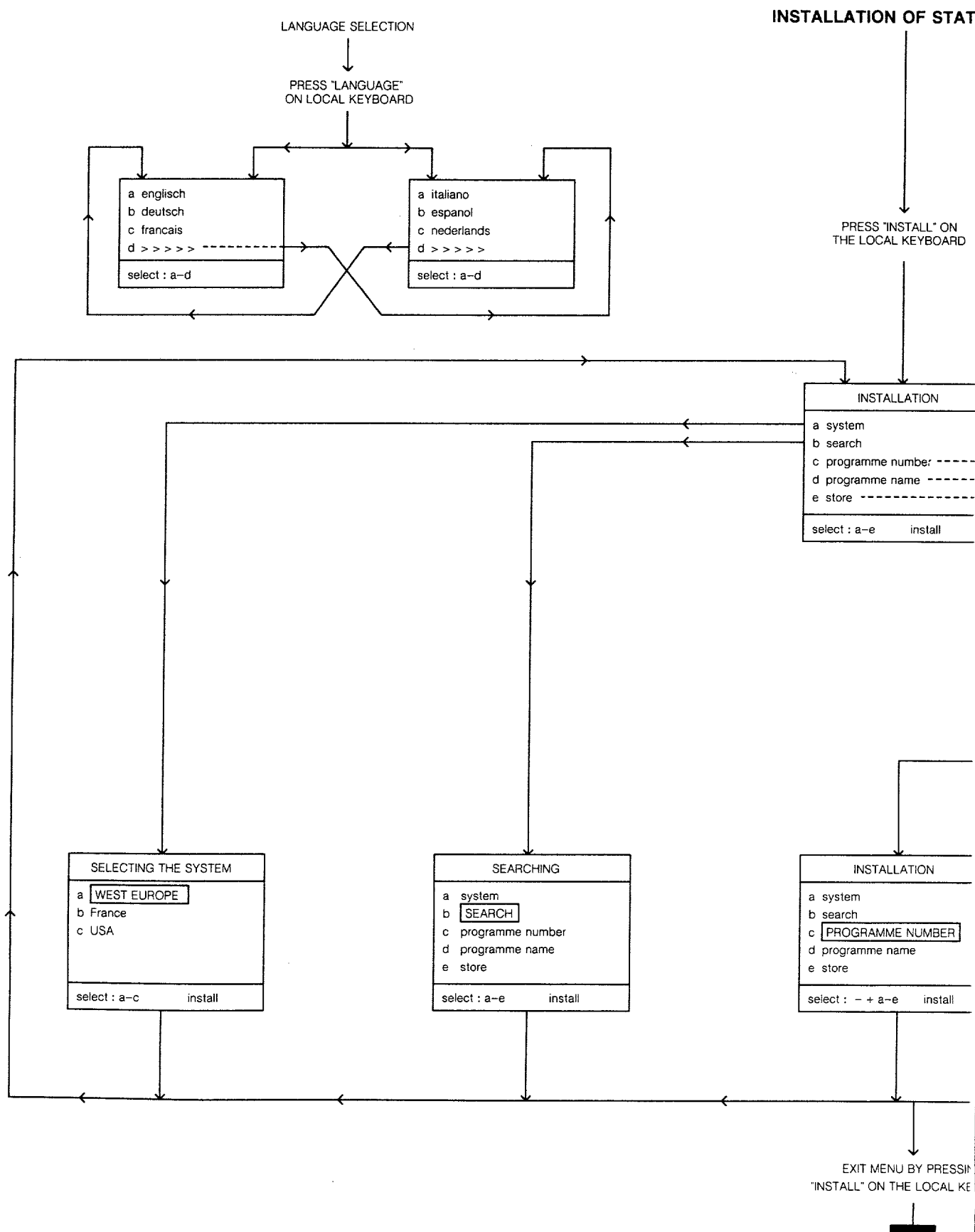
## PROGRAMME LIST

| 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 .... |

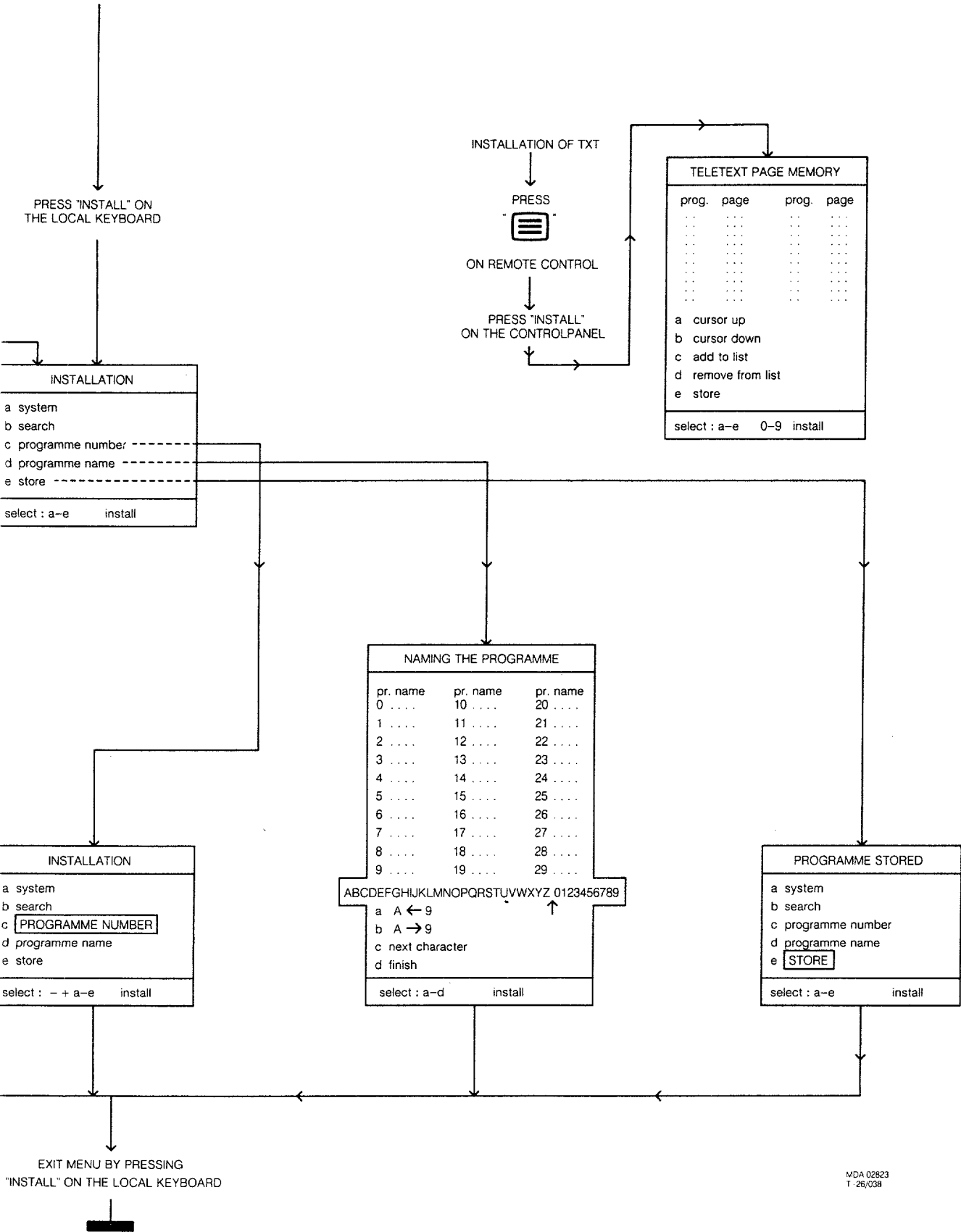
select : menu off

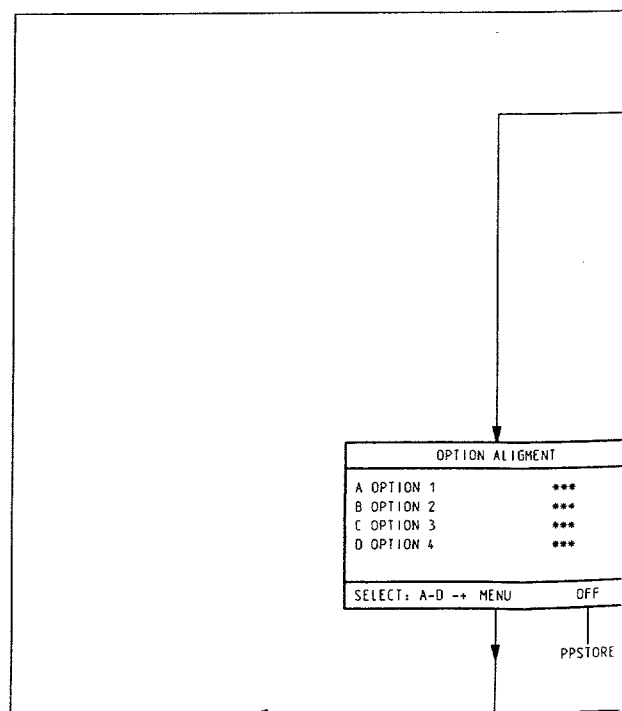
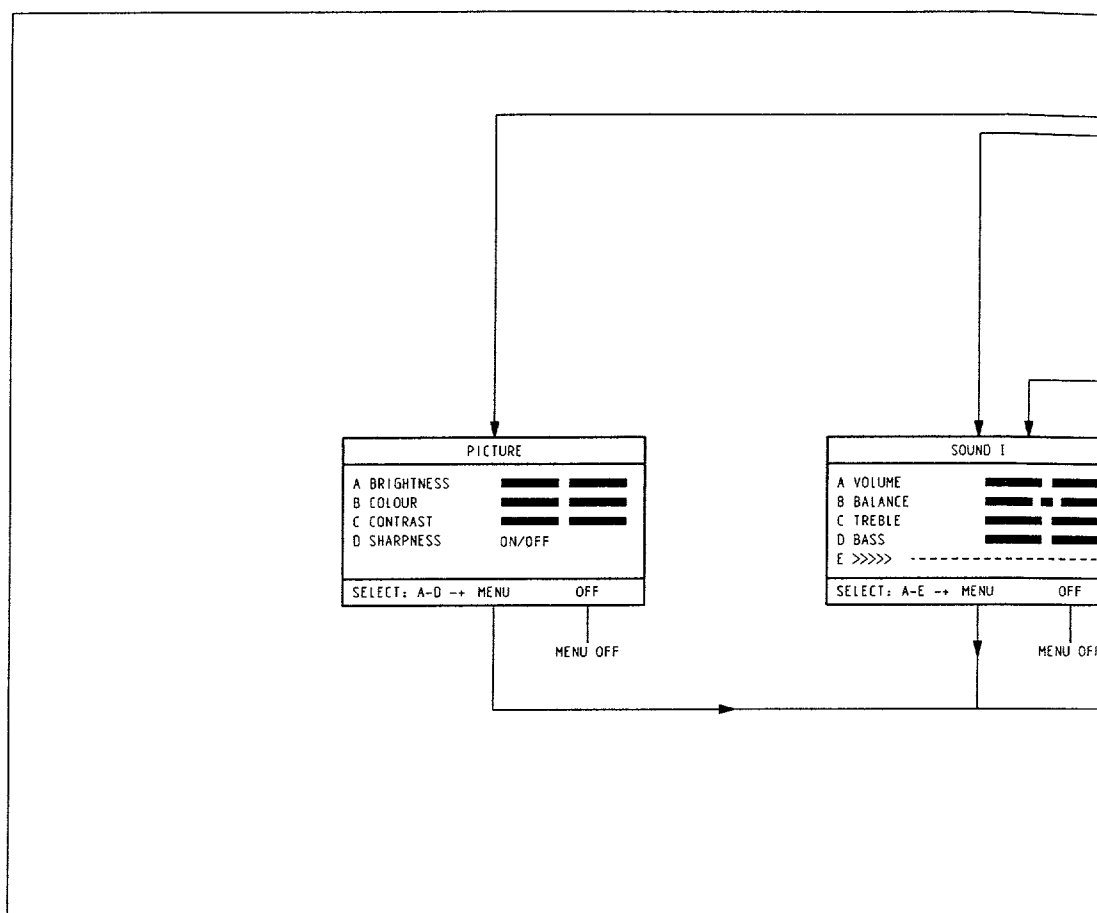
BACK TO MAIN MENU

MDA.02820  
T-26/112

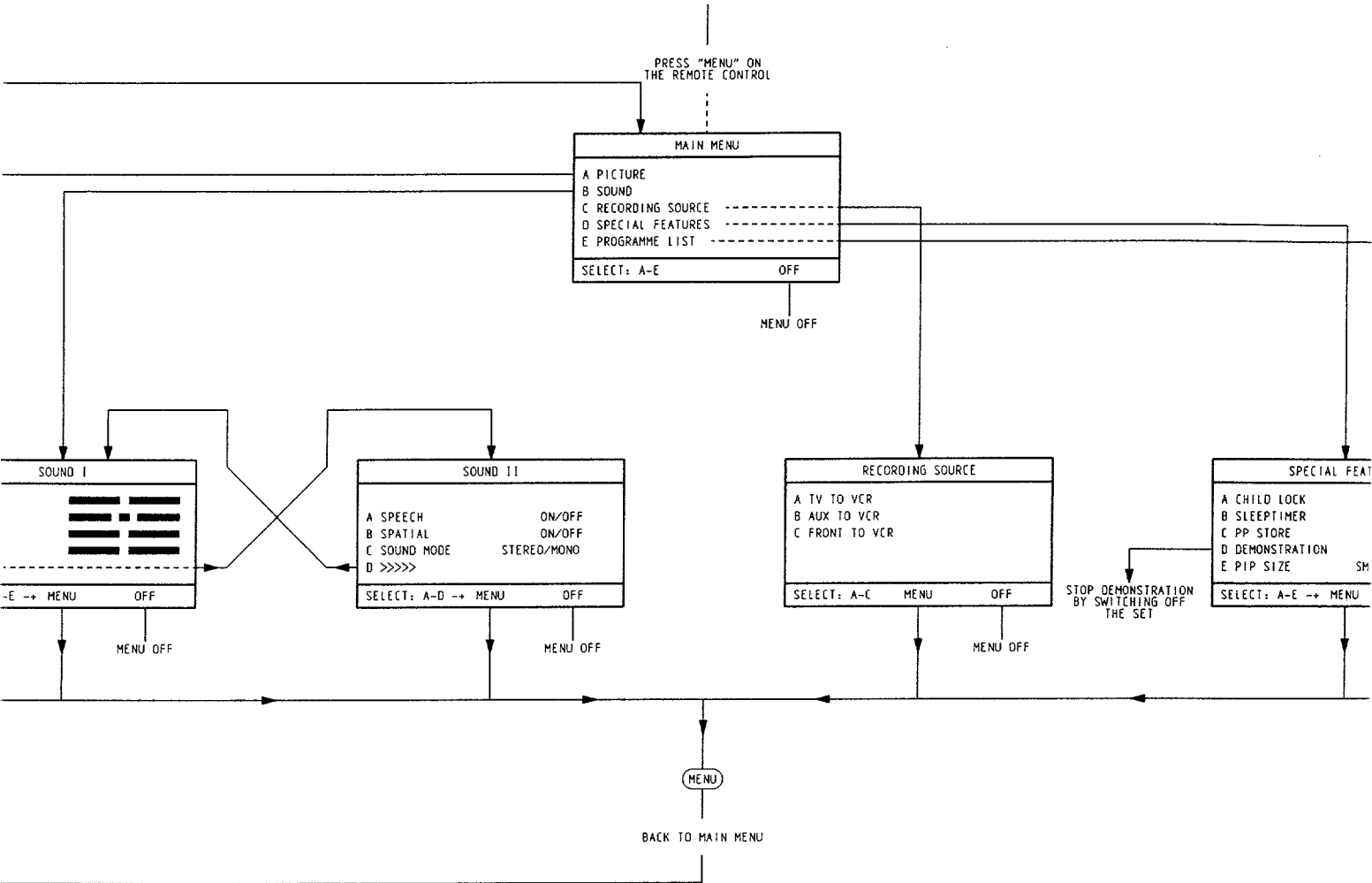


ALLATION OF STATIONS

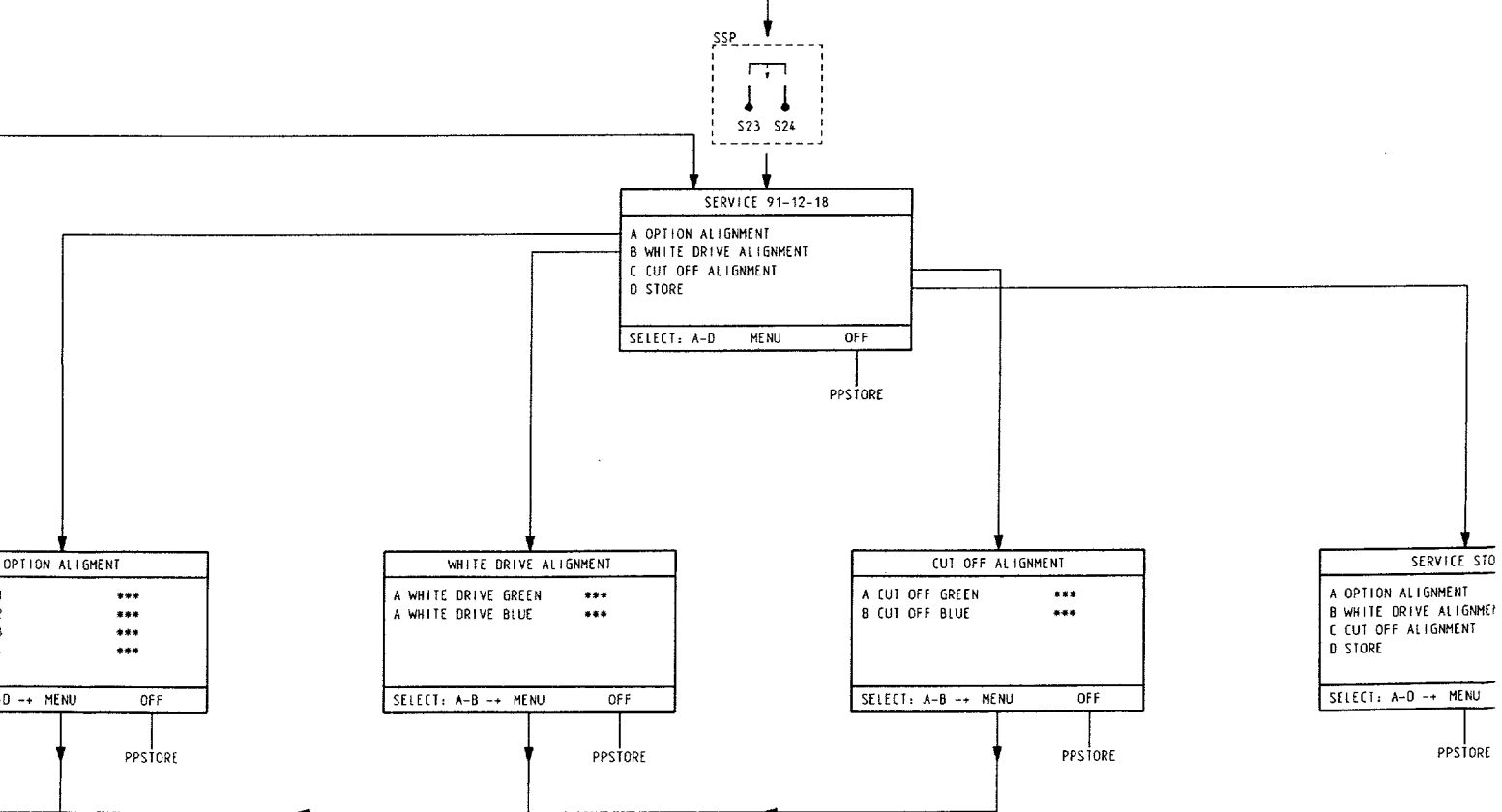


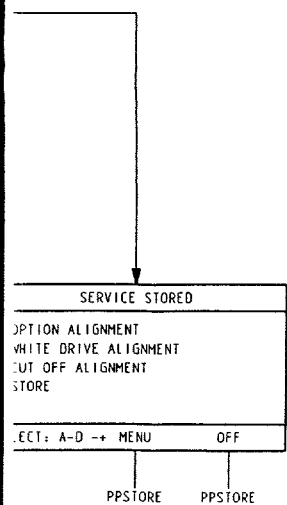
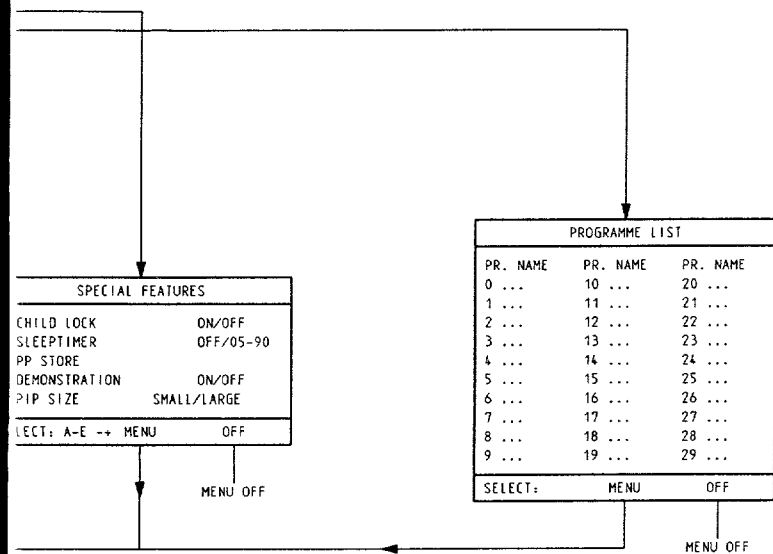


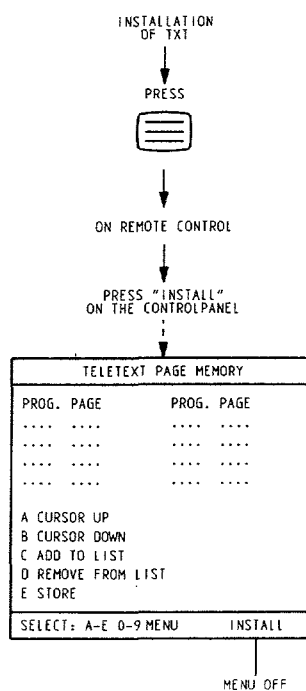
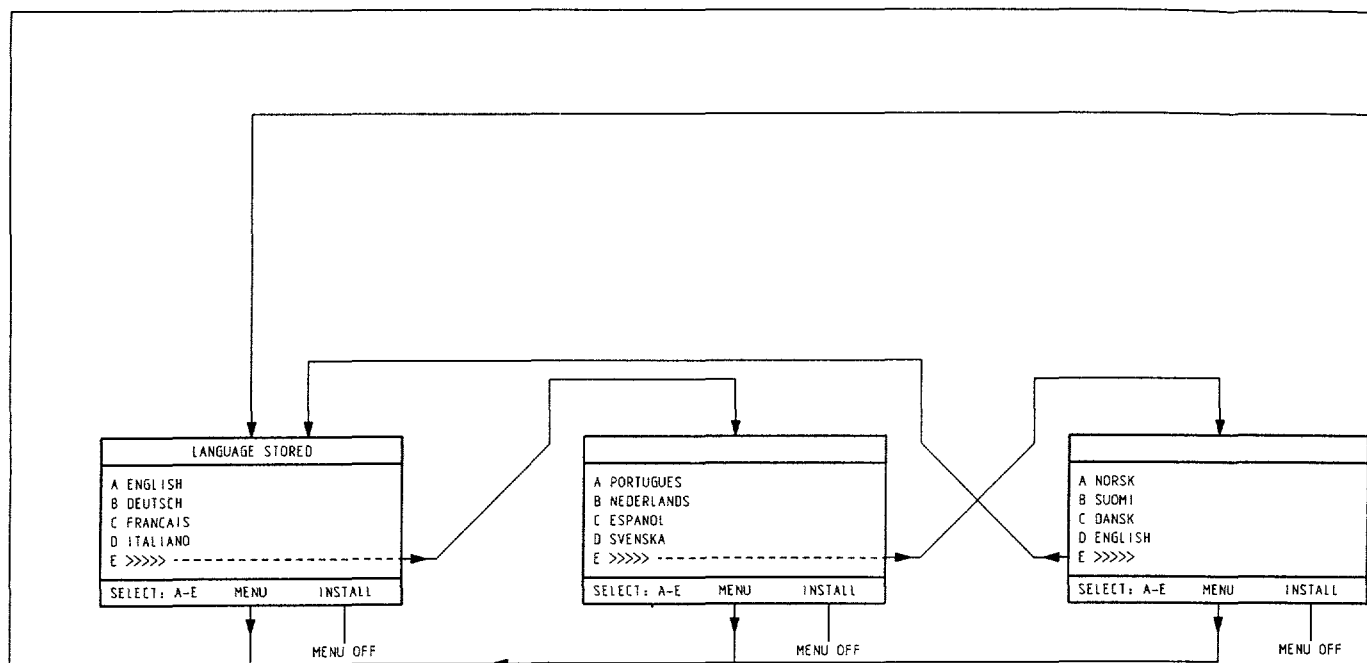
MAIN MENU



SERVICE MENU







# INSTALLATION OF STATIONS

PRESS "INSTALL" ON  
THE LOCAL KEYBOARD

| INSTALL          |         |
|------------------|---------|
| A LANGUAGE       |         |
| B INSTALLATION   | -----   |
| C FAVOURITE      | -----   |
| D PHOTO CD / CDI | YES/NO  |
| SELECT: A-D -->  | INSTALL |

MENU OFF

| INSTALLATION         |         |
|----------------------|---------|
| A SYSTEM             |         |
| B SEARCH             |         |
| C PROGRAMME NUMBER   |         |
| D PROGRAMME NAME     | -----   |
| E STORE              | -----   |
| SELECT: A-E --> MENU | INSTALL |

MENU OFF

| SELECTING THE SYSTEM |              |
|----------------------|--------------|
| A WEST-EUROPE        |              |
| B FRANCE             |              |
| C USA                |              |
| SELECT: A-C          | MENU INSTALL |

MENU OFF

| SEARCHING            |         |
|----------------------|---------|
| A SYSTEM             |         |
| B SEARCH             |         |
| C PROGRAMME NUMBER   |         |
| D PROGRAMME NAME     |         |
| E STORE              |         |
| SELECT: A-E --> MENU | INSTALL |

MENU OFF

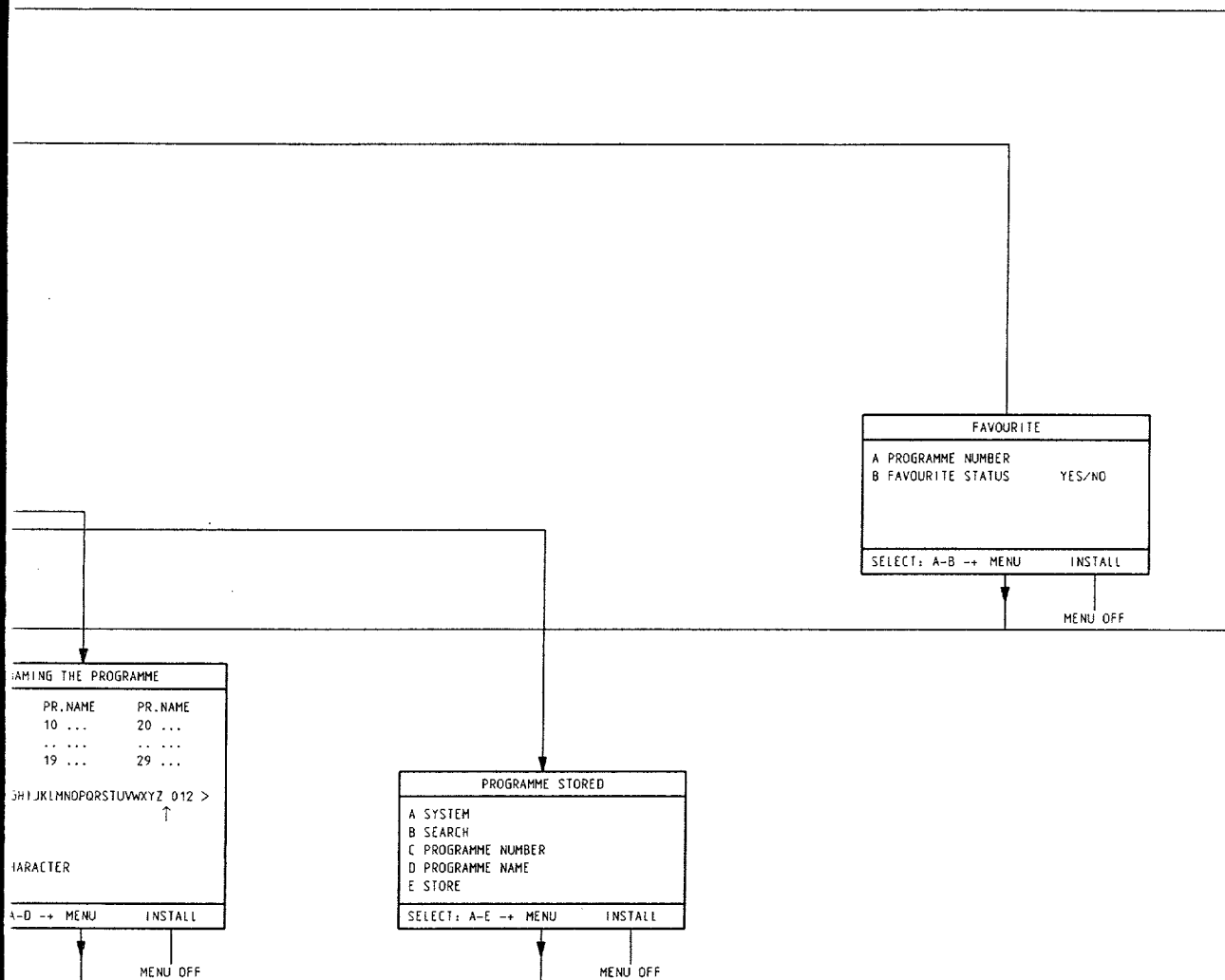
| NAMING THE           |          |
|----------------------|----------|
| PR. NAME             | PR. NAME |
| 0 ...                | 10 ...   |
| ...                  | ...      |
| 9 ...                | 19 ...   |
| ABCDEFGHIJKLMNO      |          |
| A A ← 9              |          |
| B A → 9              |          |
| C NEXT CHARACTER     |          |
| D FINISH             |          |
| SELECT: A-D --> MENU |          |

EXIT MENU BY PRESSING  
"INSTALL" ON THE LOCAL KEYBOARD

MENU OFF

|     |              |
|-----|--------------|
| X   |              |
| I   |              |
| <   |              |
| ISH |              |
| >   |              |
| A-E | MENU INSTALL |

MENU OFF



Large signal panel **A B G**

## Connectors

|                |                 |
|----------------|-----------------|
| 4822 265 30525 | 2P male grey    |
| 4822 265 20541 | 2P male black   |
| 4822 265 40469 | 6P female gold  |
| 4822 265 40472 | 10P female gold |
| 4822 290 40295 | 7P male         |
| 4822 265 40818 | 8P male         |
| 4822 267 40985 | 6P male         |
| 4822 264 40207 | 3P male         |
| 4822 265 30389 | 2P male         |
| 4822 265 40596 | 2P male         |
| 4822 265 20512 | 2P male green   |
| 4822 267 50591 | 6P male gold    |
| 4822 264 50149 | 10P male gold   |

## Various parts

|                     |                              |
|---------------------|------------------------------|
| 4822 255 40527      | insulating plate             |
| 4822 492 70143      | spring 10 X 33MM             |
| 4822 492 62076      | spring fix transistor        |
| 4822 492 70788      | spring fix IC                |
| 4822 492 70789      | spring fix transistor        |
| 4822 276 12998      | mains switch                 |
| 4822 256 30274      | fuse holder                  |
| 4822 290 60812      | socket for ext. loudspeakers |
| 4822 267 20417      | socket for squeeters         |
| 4822 276 13094      | switch loudsp. ON/OFF        |
| 4822 320 11086      | focus cable                  |
| 4822 320 20162      | EHT cable                    |
| 4822 212 23749      | SOPS CONTROL                 |
| 4822 310 81919      | SOPS repair kit              |
| 1010 4822 212 23892 | NTSC ASSY                    |
| 1200 4822 070 33152 | fuse T3,15A                  |
| 1250 4822 071 52501 | fuse T0,25A                  |



|      |                |               |
|------|----------------|---------------|
| 2000 | 4822 122 31773 | 560pF 5% 50V  |
| 2001 | 4822 122 31784 | 4,7nF 10% 50V |
| 2002 | 4822 122 31784 | 4,7nF 10% 50V |
| 2003 | 4822 126 11175 | 22pF 5% 50V   |
| 2004 | 4822 122 32142 | 270pF 5% 63V  |
| 2005 | 4822 122 32142 | 270pF 5% 63V  |
| 2007 | 4822 122 31797 | 22nF 10% 63V  |
| 2008 | 4822 122 31797 | 22nF 10% 63V  |
| 2009 | 4822 126 11175 | 22pF 5% 50V   |
| 2011 | 4822 122 31775 | 680pF 5% 50V  |
| 2012 | 4822 122 32927 | 220nF         |
| 2013 | 4822 122 32927 | 220nF         |
| 2015 | 4822 124 42109 | 22μF 10% 50V  |
| 2016 | 4822 124 42109 | 22μF 10% 50V  |
| 2018 | 4822 122 31797 | 22nF 10% 63V  |
| 2019 | 4822 122 31414 | 10nF 100V     |
| 2020 | 4822 122 31414 | 10nF 100V     |
| 2021 | 4822 122 31414 | 10nF 100V     |
| 2022 | 4822 122 31414 | 10nF 100V     |
| 2023 | 5322 122 33446 | 3,3nF 10% 63V |
| 2024 | 5322 122 33446 | 3,3nF 10% 63V |
| 2025 | 4822 122 10166 | 22nF 30% 16V  |
| 2026 | 4822 122 32927 | 220nF         |
| 2027 | 4822 122 32927 | 220nF         |
| 2028 | 4822 122 32927 | 220nF         |
| 2029 | 4822 122 32927 | 220nF         |
| 2030 | 4822 126 11175 | 22pF 5% 50V   |
| 2031 | 4822 126 11175 | 22pF 5% 50V   |



|      |                |                 |
|------|----------------|-----------------|
| 2032 | 4822 122 31797 | 22nF 10% 63V    |
| 2033 | 4822 122 10166 | 22nF 30% 16V    |
| 2035 | 4822 122 31775 | 680pF 5% 50V    |
| 2038 | 4822 122 31644 | 2,2nF 10% 63V   |
| 2040 | 4822 122 32927 | 220nF           |
| 2041 | 4822 122 32927 | 220nF           |
| 2043 | 4822 122 32927 | 220nF           |
| 2045 | 4822 122 32927 | 220nF           |
| 2046 | 4822 122 32927 | 220nF           |
| 2047 | 4822 122 32927 | 220nF           |
| 2050 | 4822 124 42362 | 33μF 20% 16V    |
| 2051 | 4822 124 42362 | 33μF 20% 16V    |
| 2052 | 4822 124 42362 | 33μF 20% 16V    |
| 2053 | 4822 124 42362 | 33μF 20% 16V    |
| 2056 | 4822 122 31773 | 560pF 5% 50V    |
| 2057 | 4822 122 31773 | 560pF 5% 50V    |
| 2058 | 4822 122 31773 | 560pF 5% 50V    |
| 2059 | 4822 122 31773 | 560pF 5% 50V    |
| 2060 | 4822 122 31773 | 560pF 5% 50V    |
| 2061 | 4822 122 31773 | 560pF 5% 50V    |
| 2065 | 4822 126 11156 | 684nF 20%       |
| 2066 | 4822 126 11156 | 684nF 20%       |
| 2070 | 4822 124 40272 | 33μF 20% 16V    |
| 2071 | 4822 124 42184 | 33μF 20% 25V    |
| 2072 | 4822 124 41584 | 100μF 20% 10V   |
| 2073 | 4822 124 21212 | 15μF 20% 40V    |
| 2074 | 5322 122 31647 | 1nF 10% 63V     |
| 2200 | 4822 121 43819 | 680nF 10% 250V  |
| 2203 | 4822 121 40487 | 100nF 10% 400V  |
| 2210 | 4822 126 11141 | 2,2nF 10% 1kV   |
| 2211 | 4822 126 11141 | 2,2nF 10% 1kV   |
| 2214 | 4822 124 23492 | 220μF 50% 385V  |
| 2215 | 4822 122 33665 | 3,3nF 20% 125V  |
| 2216 | 4822 126 10202 | 1,5nF 10% 2kV   |
| 2230 | 4822 122 31784 | 4,7nF 10% 50V   |
| 2231 | 4822 126 11157 | 470pF 10% 500V  |
| 2232 | 4822 124 40738 | 330μF 20% 25V   |
| 2233 | 4822 126 11157 | 470pF 10% 500V  |
| 2234 | 4822 124 40738 | 330μF 20% 25V   |
| 2235 | 4822 126 11157 | 470pF 10% 500V  |
| 2237 | 4822 122 33708 | 2,2nF 10% 1kV   |
| 2238 | 4822 124 22583 | 47μF 160V       |
| 2239 | 4822 124 40193 | 68μF 20% 16V    |
| 2240 | 4822 124 42183 | 1000μF 5% 63V   |
| 2254 | 4822 126 11496 | 120pF 5% 2kV    |
| 2255 | 4822 122 32142 | 270pF 5% 63V    |
| 2258 | 5322 121 42502 | 390nF 5% 63V    |
| 2260 | 4822 122 31727 | 470pF 5% 63V    |
| 2261 | 5322 124 21189 | 100μF 20% 40V   |
| 2262 | 4822 122 31727 | 470pF 5% 63V    |
| 2263 | 4822 124 40849 | 330μF 20% 16V   |
| 2270 | 4822 124 41584 | 100μF 20% 10V   |
| 2272 | 4822 122 33496 | 100nF 10% 63V   |
| 2302 | 4822 122 31765 | 100pF 5% 50V    |
| 2303 | 4822 122 31808 | 150pF 10% 50V   |
| 2308 | 4822 122 32891 | 68nF 10% 63V    |
| 2321 | 4822 121 51319 | 1μF 10% 63V     |
| 2331 | 4822 122 32891 | 68nF 10% 63V    |
| 2351 | 4822 121 41854 | 150nF 5% 63V    |
| 2360 | 4822 122 31981 | 33nF ±0,5pF 50V |
| 2361 | 4822 121 42589 | 82nF 5% 63V     |
| 2365 | 5322 122 32838 | 82nF 10% 63V    |
| 2372 | 5322 121 42502 | 390nF 5% 63V    |
| 2376 | 4822 124 40272 | 33μF 20% 16V    |
| 2380 | 4822 122 33496 | 100nF 10% 63V   |
| 2381 | 4822 122 33496 | 100nF 10% 63V   |
| 2382 | 4822 122 33496 | 100nF 10% 63V   |
| 2386 | 5322 122 31647 | 1nF 10% 63V     |



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| 2401 | 4822 122 32542 | 47nF 10% 63V   |
| 2402 | 4822 124 41576 | 2,2μF 20% 50V  |
| 2403 | 5322 124 41431 | 22μF 20% 35V   |
| 2404 | 4822 124 41577 | 4,7μF 20% 50V  |
| 2405 | 4822 122 32542 | 47nF 10% 63V   |
| 2406 | 4822 121 51091 | 1,2nF 2% 250V  |
| 2407 | 4822 122 32153 | 1,8nF 10% 63V  |
| 2408 | 4822 122 31168 | 270pF 10% 500V |
| 2409 | 4822 122 31797 | 22nF 10% 63V   |
| 2410 | 4822 121 41854 | 150nF 5% 63V   |
| 2411 | 4822 121 41854 | 150nF 5% 63V   |
| 2412 | 4822 122 31211 | 100pF 10% 500V |
| 2415 | 4822 122 32542 | 47nF 10% 63V   |
| 2416 | 4822 122 33496 | 100nF 10% 63V  |
| 2417 | 4822 122 32808 | 1,2nF 10% 63V  |
| 2418 | 4822 122 31797 | 22nF 10% 63V   |
| 2419 | 4822 124 40849 | 330μF 20% 16V  |
| 2450 | 4822 122 32442 | 10nF 50V       |
| 2451 | 4822 122 31746 | 1000pF 5% 50V  |
| 2452 | 4822 124 41716 | 220μF 20% 35V  |
| 2455 | 4822 122 31771 | 390pF 5% 50V   |
| 2456 | 4822 124 41334 | 470μF 20% 35V  |
| 2456 | 4822 124 41747 | 680μF 20%      |
| 2457 | 4822 124 42251 | 1,5μF 10% 50V  |
| 2458 | 4822 122 31797 | 22nF 10% 63V   |
| 2459 | 4822 122 32891 | 68nF 10% 63V   |
| 2460 | 4822 122 33496 | 100nF 10% 63V  |
| 2480 | 4822 124 23495 | 10μF 20% 25V   |
| 2501 | 4822 122 31961 | 68pF 5% 63V    |
| 2502 | 4822 121 41689 | 100nF 10% 250V |
| 2503 | 4822 126 11157 | 470pF 10% 500V |
| 2504 | 4822 126 11495 | 1nF 10% 2kV    |
| 2504 | 4822 126 11539 | 1,2nF 10% 2kV  |
| 2504 | 4822 126 11495 | 1nF 10% 2kV    |
| 2509 | 4822 122 31171 | 1,2nF 10% 500V |
| 2511 | 4822 124 41739 | 47μF 20% 160V  |
| 2512 | 4822 124 40435 | 10μF 20% 50V   |
| 2513 | 4822 124 40435 | 10μF 20% 50V   |
| 2517 | 4822 122 31177 | 470pF 10% 500V |
| 2518 | 4822 124 22449 | 4,7μF 30% 350V |
| 2519 | 4822 124 41831 | 1μF 20% 160V   |
| 2520 | 4822 121 51528 | 470nF 5% 250V  |
| 2521 | 4822 121 51563 | 560nF 5% 250V  |
| 2523 | 5322 121 42523 | 8,2nF 5% 2kV   |
| 2524 | 4822 121 43915 | 27nF 5% 630V   |
| 2529 | 4822 124 23491 | 0,47μF 20% 50V |
| 2530 | 4822 122 31797 | 22nF 10% 63V   |
| 2531 | 4822 121 40516 | 22nF 10% 250V  |
| 2533 | 5322 122 32818 | 2,2nF 10% 100V |
| 2534 | 4822 126 11502 | 470pF 10% 500V |
| 2535 | 4822 124 23488 | 1000μF 20% 35V |
| 2536 | 4822 122 31177 | 470pF 10% 500V |
| 2537 | 4822 124 40184 | 1000μF 20% 10V |
| 2541 | 4822 124 42184 | 33μF 20% 25V   |
| 2542 | 4822 124 22466 | 1μF 20% 50V    |
| 2543 | 4822 124 23495 | 10μF 20% 25V   |
| 2546 | 4822 122 33496 | 100nF 10% 63V  |
| 2547 | 4822 122 33498 | 2,7nF 10% 63V  |
| 2551 | 4822 124 40195 | 150μF 20% 16V  |
| 2600 | 4822 124 41577 | 4,7μF 20% 50V  |
| 2601 | 4822 122 31797 | 22nF 10% 63V   |
| 2603 | 4822 122 32891 | 68nF 10% 63V   |
| 2603 | 4822 122 32542 | 47nF 10% 63V   |
| 2603 | 4822 122 33496 | 100nF 10% 63V  |
| 2605 | 4822 122 31781 | 1500pF 10% 50V |
| 2605 | 4822 122 33498 | 2,7nF 10% 63V  |
| 2606 | 4822 122 33496 | 100nF 10% 63V  |
| 2609 | 4822 121 43396 | 120nF 5% 63V   |

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| 2610 | 4822 122 32542 | 47nF 10% 63V   |
| 2611 | 4822 124 41576 | 2,2μF 20% 50V  |
| 2613 | 5322 124 41431 | 22μF 20% 35V   |
| 2613 | 4822 124 41577 | 4,7μF 20% 50V  |
| 3000 | 4822 122 32542 | 47nF 10% 63V   |
| 3001 | 4822 121 51091 | 1,2nF 2% 250V  |
| 3004 | 4822 122 32153 | 1,8nF 10% 63V  |
| 3005 | 4822 122 31168 | 270pF 10% 500V |
| 3006 | 4822 122 31797 | 22nF 10% 63V   |
| 3008 | 4822 121 41854 | 150nF 5% 63V   |
| 3008 | 4822 121 41854 | 150nF 5% 63V   |
| 3009 | 4822 122 31211 | 100pF 10% 500V |
| 3009 | 4822 122 32542 | 47nF 10% 63V   |
| 3011 | 4822 122 33496 | 100nF 10% 63V  |
| 3012 | 4822 122 32808 | 1,2nF 10% 63V  |
| 3012 | 4822 122 31797 | 22nF 10% 63V   |
| 3013 | 4822 124 40849 | 330μF 20% 16V  |
| 3014 | 4822 122 32442 | 10nF 50V       |
| 3016 | 4822 122 31746 | 1000pF 5% 50V  |
| 3022 | 4822 124 41716 | 220μF 20% 35V  |
| 3022 | 4822 122 31771 | 390pF 5% 50V   |
| 3025 | 4822 124 41334 | 470μF 20% 35V  |
| 3027 | 4822 124 41747 | 680μF 20%      |
| 3028 | 4822 124 42251 | 1,5μF 10% 50V  |
| 3028 | 4822 122 31797 | 22nF 10% 63V   |
| 3030 | 4822 122 32891 | 68nF 10% 63V   |
| 3031 | 4822 122 33496 | 100nF 10% 63V  |
| 3032 | 4822 124 23495 | 10μF 20% 25V   |
| 3033 | 4822 122 31961 | 68pF 5% 63V    |
| 3034 | 4822 121 41689 | 100nF 10% 250V |
| 3035 | 4822 126 11157 | 470pF 10% 500V |
| 3037 | 4822 126 11495 | 1nF 10% 2kV    |
| 3040 | 4822 126 11539 | 1,2nF 10% 2kV  |
| 3041 | 4822 126 11495 | 1nF 10% 2kV    |
| 3043 | 4822 122 31171 | 1,2nF 10% 500V |
| 3044 | 4822 124 41739 | 47μF 20% 160V  |
| 3044 | 4822 124 40435 | 10μF 20% 50V   |
| 3045 | 4822 124 40435 | 10μF 20% 50V   |
| 3050 | 4822 122 31177 | 470pF 10% 500V |
| 3051 | 4822 124 22449 | 4,7μF 30% 350V |
| 3052 | 4822 124 41831 | 1μF 20% 160V   |
| 3053 | 4822 121 51528 | 470nF 5% 250V  |
| 3054 | 4822 121 51563 | 560nF 5% 250V  |
| 3060 | 5322 121 42523 | 8,2nF 5% 2kV   |
| 3065 | 4822 121 43915 | 27nF 5% 630V   |
| 3066 | 4822 124 23491 | 0,47μF 20% 50V |
| 3067 | 4822 122 31797 | 22nF 10% 63V   |
| 3068 | 4822 121 40516 | 22nF 10% 250V  |
| 3069 | 5322 122 32818 | 2,2nF 10% 100V |
| 3072 | 4822 126 11502 | 470pF 10% 500V |
| 3073 | 4822 124 23488 | 1000μF         |

Large signal panel **A B G**

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| 2610 | 4822 124 41576 | 2,2µF 20% 50V |
| 2611 | 4822 124 41576 | 2,2µF 20% 50V |
| 2613 | 4822 122 31784 | 4,7nF 10% 50V |
| 2613 | 4822 122 31773 | 560pF 5% 50V  |



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|------|----------------|---------------|
| 3000 | 4822 051 10912 | 9k1 2% 0,25W  |
| 3001 | 4822 051 10912 | 9k1 2% 0,25W  |
| 3004 | 4822 051 10104 | 100k 2% 0,25W |
| 3005 | 4822 051 10104 | 100k 2% 0,25W |
| 3006 | 4822 051 10224 | 220k 2% 0,25W |
| 3009 | 4822 051 10224 | 220k 2% 0,25W |
| 3011 | 4822 051 10203 | 20k 2% 0,25W  |
| 3012 | 4822 051 10203 | 20k 2% 0,25W  |
| 3013 | 4822 116 52268 | 300k 5% 0,5W  |
| 3014 | 4822 116 52268 | 300k 5% 0,5W  |
| 3016 | 4822 052 10828 | 80Ω 5% 0,33W  |
| 3021 | 4822 052 10828 | 80Ω 5% 0,33W  |
| 3022 | 4822 052 10828 | 80Ω 5% 0,33W  |
| 3025 | 4822 051 10333 | 33k 2% 0,25W  |
| 3027 | 4822 051 10103 | 10k 2% 0,25W  |
| 3028 | 4822 051 10103 | 10k 2% 0,25W  |
| 3029 | 4822 051 10123 | 12k 2% 0,25W  |
| 3030 | 4822 051 10123 | 12k 2% 0,25W  |
| 3031 | 4822 051 10102 | 1k 2% 0,25W   |
| 3032 | 4822 051 10102 | 1k 2% 0,25W   |
| 3033 | 4822 116 52244 | 15k 5% 0,5W   |
| 3034 | 4822 051 10472 | 4k7 2% 0,25W  |
| 3035 | 4822 051 10153 | 15k 2% 0,25W  |
| 3036 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3037 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3040 | 4822 051 10273 | 27k 2% 0,25W  |
| 3041 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3043 | 4822 051 10203 | 20k 2% 0,25W  |
| 3044 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3049 | 4822 051 10102 | 1k 2% 0,25W   |
| 3050 | 4822 051 10103 | 10k 2% 0,25W  |
| 3051 | 4822 051 10203 | 20k 2% 0,25W  |
| 3052 | 4822 051 10472 | 4k7 2% 0,25W  |
| 3053 | 4822 051 10472 | 4k7 2% 0,25W  |
| 3054 | 4822 053 21475 | 4M7 5% 0,5W   |
| 3060 | 4822 051 10203 | 20k 2% 0,25W  |
| 3065 | 4822 051 10183 | 18k 2% 0,25W  |
| 3066 | 4822 051 10183 | 18k 2% 0,25W  |
| 3067 | 4822 116 52296 | 6k8 5% 0,5W   |
| 3068 | 4822 116 52207 | 1k2 5% 0,5W   |
| 3069 | 4822 051 10752 | 7k5 2% 0,25W  |
| 3072 | 4822 051 10479 | 47Ω 2% 0,25W  |
| 3073 | 4822 116 52257 | 22k 5% 0,5W   |
| 3074 | 4822 051 10103 | 10k 2% 0,25W  |
| 3201 | 4822 053 21475 | 4M7 5% 0,5W   |
| 3202 | 4822 053 21475 | 4M7 5% 0,5W   |
| 3204 | 4822 116 40033 | NTC/PTC       |
| 3204 | 4822 116 40215 | PTC           |
| 3209 | 4822 113 80384 | 1Q5 10% 7W    |
| 3210 | 4822 116 52239 | 120k 5% 0,5W  |
| 3211 | 4822 116 52239 | 120k 5% 0,5W  |
| 3212 | 4822 116 52234 | 100k 5% 0,5W  |
| 3213 | 4822 051 10823 | 82k 2% 0,25W  |
| 3215 | 4822 051 10472 | 4k7 2% 0,25W  |
| 3216 | 4822 115 90309 | 56Ω 10% 5W    |
| 3239 | 4822 116 52297 | 68k 5% 0,5W   |
| 3240 | 4822 116 52234 | 100k 5% 0,5W  |
| 3240 | 4822 116 52297 | 68k 5% 0,5W   |
| 3241 | 4822 113 80572 | 2Q2 10% 5W    |
| 3241 | 4822 113 80584 | 2Q7 10% 5W    |
| 3242 | 4822 051 10122 | 1k2 2% 0,25W  |



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| 3243 | 4822 116 52229 | 750Ω 5% 0,5W   |
| 3244 | 4822 116 52211 | 150Ω 5% 0,5W   |
| 3245 | 4822 116 52229 | 750Ω 5% 0,5W   |
| 3247 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3248 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3249 | 4822 116 52258 | 220k 5% 0,5W   |
| 3250 | 4822 116 52198 | 62Ω 5% 0,5W    |
| 3251 | 4822 051 10102 | 1k 2% 0,25W    |
| 3252 | 4822 116 52258 | 220k 5% 0,5W   |
| 3253 | 4822 116 82738 | 10k 10%        |
| 3255 | 4822 116 52243 | 1k5 5% 0,5W    |
| 3266 | 4822 051 10151 | 150Ω 2% 0,25W  |
| 3267 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3268 | 4822 053 11689 | 68Ω 5% 2W      |
| 3270 | 4822 051 10118 | 1Q1 5% 0,25W   |
| 3271 | 4822 053 10399 | 39Ω 5% 1W      |
| 3272 | 4822 051 51201 | 120Ω 1% 0,125W |
| 3273 | 4822 051 10472 | 4k7 2% 0,25W   |
| 3274 | 4822 051 10102 | 1k 2% 0,25W    |
| 3275 | 4822 116 52206 | 120Ω 5% 0,5W   |
| 3298 | 4822 051 10479 | 47Ω 2% 0,25W   |
| 3298 | 4822 051 10569 | 56Ω 2% 0,25W   |
| 3298 | 4822 051 10689 | 68Ω 2% 0,25W   |
| 3298 | 4822 051 10821 | 820Ω 2% 0,25W  |
| 3298 | 4822 051 10122 | 1k2 2% 0,25W   |
| 3298 | 4822 051 10182 | 1k8 2% 0,25W   |
| 3300 | 4822 053 10753 | 75k 5% 1W      |
| 3304 | 4822 051 10473 | 47k 2% 0,25W   |
| 3305 | 4822 051 10472 | 4k7 2% 0,25W   |
| 3305 | 4822 051 10332 | 3k3 2% 0,25W   |
| 3306 | 4822 051 10823 | 82k 2% 0,25W   |
| 3308 | 4822 053 12151 | 150Ω 5% 3W     |
| 3309 | 4822 051 10103 | 10k 2% 0,25W   |
| 3310 | 4822 050 11109 | 11Ω 1% 0,4W    |
| 3310 | 4822 116 52184 | 18Ω 5% 0,5W    |
| 3311 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3312 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3313 | 4822 050 11109 | 11Ω 1% 0,4W    |
| 3313 | 4822 116 52184 | 18Ω 5% 0,5W    |
| 3314 | 4822 116 52223 | 430Ω 5% 0,5W   |
| 3315 | 4822 116 52223 | 430Ω 5% 0,5W   |
| 3317 | 4822 051 10682 | 6k8 2% 0,25W   |
| 3320 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3321 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3322 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3331 | 4822 116 52267 | 30k 5% 0,5W    |
| 3332 | 4822 116 52233 | 10k 5% 0,5W    |
| 3351 | 4822 052 11279 | 27Ω 5% 0,5W    |
| 3356 | 4822 051 10132 | 1k3 2% 0,25W   |
| 3356 | 4822 051 10751 | 750Ω 2% 0,25W  |
| 3357 | 4822 050 13302 | 3k3 1% 0,4W    |
| 3357 | 4822 050 27871 | 787Ω 1% 0,6W   |
| 3358 | 4822 116 52183 | 16Ω 5% 0,5W    |
| 3360 | 4822 051 10122 | 1k2 2% 0,25W   |
| 3362 | 4822 051 10151 | 150Ω 2% 0,25W  |
| 3364 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3365 | 4822 051 10221 | 220Ω 2% 0,25W  |
| 3366 | 4822 051 10221 | 220Ω 2% 0,25W  |
| 3368 | 4822 116 52226 | 560Ω 5% 0,5W   |
| 3369 | 4822 116 52226 | 560Ω 5% 0,5W   |
| 3370 | 4822 051 10332 | 3k3 2% 0,25W   |
| 3371 | 4822 100 11348 | 1k 30% LIN     |
| 3372 | 4822 051 10561 | 560Ω 2% 0,25W  |
| 3374 | 4822 116 52301 | 75k 5% 0,5W    |
| 3375 | 5322 111 90282 | 2k4 2% 0,25W   |
| 3376 | 4822 116 52175 | 100Ω 5% 0,5W   |
| 3378 | 4822 051 10101 | 100Ω 2% 0,25W  |



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| 3380 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3381 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3382 | 4822 051 10103 | 10k 2% 0,25W  |
| 3383 | 4822 051 10103 | 10k 2% 0,25W  |
| 3387 | 4822 051 10223 | 22k 2% 0,25W  |
| 3402 | 4822 051 10562 | 5k6 2% 0,25W  |
| 3403 | 4822 051 10229 | 22Ω 2% 0,25W  |
| 3404 | 4822 051 10182 | 1k8 2% 0,25W  |
| 3405 | 4822 051 10333 | 33k 2% 0,25W  |
| 3406 | 4822 100 11483 | 10k 30% LIN   |
| 3407 | 4822 051 10561 | 560Ω 2% 0,25W |
| 3408 | 4822 051 10563 | 56k 2% 0,25W  |
| 3409 | 4822 116 52272 | 330k 5% 0,5W  |
| 3410 | 5322 101 11013 | 330k 30% LIN  |
| 3411 | 4822 051 10104 | 100k 2% 0,25W |
| 3411 | 4822 051 10913 | 91k 2% 0,25W  |
| 3413 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3414 | 4822 051 10154 | 150k 2% 0,25W |
| 3415 | 4822 100 11392 | 47k 30% LIN   |
| 3417 | 4822 116 52256 | 2k2 5% 0,5W   |
| 3418 | 4822 051 10201 | 200Ω 2% 0,25W |
| 3419 | 4822 052 10279 | 27Ω 5% 0,33W  |
| 3420 | 4822 050 23905 | 3M9 1% 0,6W   |
| 3421 | 4822 116 52243 | 1k5 5% 0,5W   |
| 3422 | 4822 116 81223 | 1M2 5% 0,5W   |
| 3422 | 4822 116 81783 | 1M5 5% 0,5W   |
| 3424 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3426 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3428 | 4822 116 52271 | 33k 5% 0,5W   |
| 3429 | 4822 116 52269 | 3k3 5% 0,5W   |
| 3430 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3437 | 4822 116 52224 | 470Ω 5% 0,5W  |
| 3438 | 4822 116 52205 | 1k1 5% 0,5W   |
| 3439 | 4822 116 52247 | 16k 5% 0,5W   |
| 3441 | 4822 051 10622 | 6k2 2% 0,25W  |
| 3442 | 4822 051 10332 | 3k3 2% 0,25W  |
| 3444 | 4822 051 10103 | 10k 2% 0,25W  |
| 3446 | 4822 116 52264 | 27k 5% 0,5W   |
| 3450 | 4822 051 10432 | 4k3 2% 0,25W  |
| 3451 | 4822 051 10432 | 4k3 2% 0,25W  |
| 3455 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3456 | 4822 051 10124 | 120k 2% 0,25W |
| 3456 | 4822 051 10134 | 130k 2% 0,25W |
| 3457 | 4822 051 10822 | 8k2 2% 0,25W  |
| 3457 | 4822 051 10912 | 9k1 2% 0,25W  |
| 3458 | 4822 116 80676 | 1Q5 5% 0,2W   |
| 3459 | 4822 116 80676 | 1Q5 5% 0,2W   |
| 3460 | 4822 053 10271 | 270Ω 5% 1W    |
| 3461 | 4822 116 80176 | 1Q 5% 0,5W    |
| 3462 | 4822 116 80176 | 1Q 5% 0,5W    |
| 3463 | 4822 116 80176 | 1Q 5% 0,5W    |
| 3465 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3466 | 4822 116 52243 | 1k5 5% 0,5W   |
| 3466 | 4822 116 52263 | 2k7 5% 0,5W   |
| 3466 | 4822 116 52279 | 4k3 5% 0,5W   |
| 3467 | 4822 100 20166 | 10k 30% LIN   |
| 3468 | 4822 053 12221 | 220Ω 5% 3W    |
| 3469 | 4822 050 11002 | 1k 1% 0,4W    |
| 3469 | 4822 116 52263 | 2k7 5% 0,5W   |
| 3469 | 4822 116 52279 | 4k3 5% 0,5W   |
| 3473 | 4822 116 52253 | 2k 5% 0,5W    |
| 3479 | 4822 051 10683 | 68k 2% 0,25W  |
| 3480 | 4822 116 52234 | 100k 5% 0,5W  |
| 3481 | 4822 051 10102 | 1k 2% 0,25W   |
| 3482 | 4822 051 10229 | 22Ω 2% 0,25W  |
| 3483 | 4822 051 10563 | 56k 2% 0,25W  |
| 3484 | 4822 051 10223 | 22k 2% 0,25W  |
| 3485 | 4822 051 10102 | 1k 2% 0,25W   |

Large signal panel **A B G**

|      |                |               |
|------|----------------|---------------|
| 3500 | 4822 116 80176 | 1Ω 5% 0,5W    |
| 3501 | 4822 116 52271 | 33k 5% 0,5W   |
| 3502 | 4822 116 52299 | 7k5 5% 0,5W   |
| 3503 | 4822 116 52299 | 7k5 5% 0,5W   |
| 3504 | 4822 053 11108 | 1Ω 5% 2W      |
| 3505 | 4822 116 52191 | 33Ω 5% 0,5W   |
| 3506 | 4822 053 11108 | 1Ω 5% 2W      |
| 3507 | 4822 116 52191 | 33Ω 5% 0,5W   |
| 3508 | 4822 116 82773 | 1k8 10% 5W    |
| 3509 | 4822 053 21154 | 150k 5% 0,5W  |
| 3510 | 4822 053 12331 | 330Ω 5% 3W    |
| 3511 | 4822 116 52176 | 10Ω 5% 0,5W   |
| 3512 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3513 | 4822 100 20166 | 10k 30% LIN   |
| 3514 | 4822 116 52186 | 22Ω 5% 0,5W   |
| 3515 | 4822 116 81191 | 608 5% 0,3W   |
| 3516 | 4822 116 81191 | 608 5% 0,3W   |
| 3517 | 4822 052 11108 | 1Ω 5% 0,5W    |
| 3518 | 4822 116 52267 | 30k 5% 0,5W   |
| 3519 | 4822 116 52267 | 30k 5% 0,5W   |
| 3520 | 4822 052 10338 | 3Ω 5% 0,33W   |
| 3521 | 4822 052 10338 | 3Ω 5% 0,33W   |
| 3524 | 4822 116 81753 | 407 5% 0,5W   |
| 3527 | 4822 051 10102 | 1k 2% 0,25W   |
| 3528 | 4822 116 52229 | 750Ω 5% 0,5W  |
| 3529 | 4822 051 10104 | 100k 2% 0,25W |
| 3530 | 4822 051 10474 | 470k 2% 0,25W |
| 3531 | 4822 116 52274 | 36k 5% 0,5W   |
| 3532 | 4822 116 52211 | 150Ω 5% 0,5W  |
| 3533 | 4822 116 52211 | 150Ω 5% 0,5W  |
| 3534 | 4822 052 11278 | 207 5% 0,5W   |
| 3535 | 4822 052 11278 | 207 5% 0,5W   |
| 3536 | 4822 116 52221 | 360Ω 5% 0,5W  |
| 3537 | 4822 116 52186 | 22Ω 5% 0,5W   |
| 3538 | 4822 116 52241 | 13k 5% 0,5W   |
| 3538 | 4822 116 52238 | 12k 5% 0,5W   |
| 3540 | 4822 116 52267 | 30k 5% 0,5W   |
| 3541 | 4822 116 52285 | 470k 5% 0,5W  |
| 3542 | 4822 051 10104 | 100k 2% 0,25W |
| 3543 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3544 | 4822 051 10393 | 39k 2% 0,25W  |
| 3545 | 4822 116 52208 | 130Ω 5% 0,5W  |
| 3547 | 4822 051 10518 | 5Ω 1% 0,25W   |
| 3548 | 4822 051 10392 | 3k9 2% 0,25W  |
| 3549 | 4822 051 10124 | 120k 2% 0,25W |
| 3550 | 4822 116 52209 | 1k3 5% 0,5W   |
| 3551 | 4822 051 10569 | 56Ω 2% 0,25W  |
| 3601 | 4822 051 10104 | 100k 2% 0,25W |
| 3601 | 4822 051 10154 | 150k 2% 0,25W |
| 3602 | 4822 100 20166 | 10k 30% LIN   |
| 3603 | 4822 051 10153 | 15k 2% 0,25W  |
| 3603 | 4822 051 20183 | 18k 5% 0,1W   |
| 3603 | 4822 051 10103 | 10k 2% 0,25W  |
| 3603 | 4822 051 10912 | 9k1 2% 0,25W  |
| 3604 | 4822 051 10124 | 120k 2% 0,25W |
| 3604 | 4822 051 10154 | 150k 2% 0,25W |
| 3604 | 4822 051 10134 | 130k 2% 0,25W |
| 3605 | 4822 051 10133 | 13k 2% 0,25W  |
| 3605 | 4822 051 10243 | 24k 2% 0,25W  |
| 3606 | 4822 051 10333 | 33k 2% 0,25W  |
| 3607 | 4822 100 11213 | 22k 30% LIN   |
| 3608 | 4822 051 10102 | 1k 2% 0,25W   |
| 3609 | 4822 051 10473 | 47k 2% 0,25W  |
| 3610 | 4822 051 10472 | 4k7 2% 0,25W  |
| 3611 | 4822 051 20222 | 2k2 5% 0,1W   |
| 3614 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3615 | 4822 116 52224 | 470Ω 5% 0,5W  |
| 3616 | 4822 051 10332 | 3k3 2% 0,25W  |



|      |                |               |
|------|----------------|---------------|
| 3617 | 4822 051 20222 | 2k2 5% 0,1W   |
| 3618 | 4822 051 10104 | 100k 2% 0,25W |
| 3619 | 4822 051 20222 | 2k2 5% 0,1W   |
| 3620 | 4822 051 10622 | 6k2 2% 0,25W  |
| 3621 | 4822 051 10164 | 160k 2% 0,25W |
| 3622 | 4822 116 80176 | 1Ω 5% 0,5W    |
| 3623 | 4822 116 80176 | 1Ω 5% 0,5W    |
| 3623 | 4822 116 52242 | 130k 5% 0,5W  |
| 3626 | 4822 116 52265 | 270k 5% 0,5W  |
| 3626 | 4822 116 52242 | 130k 5% 0,5W  |
| 3626 | 4822 116 52258 | 220k 5% 0,5W  |
| 3627 | 4822 051 10103 | 10k 2% 0,25W  |
| 3628 | 4822 116 52234 | 100k 5% 0,5W  |
| 3629 | 4822 051 10224 | 220k 2% 0,25W |
| 3630 | 4822 051 10104 | 100k 2% 0,25W |
| 3631 | 4822 051 10182 | 1k8 2% 0,25W  |
| 3632 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3632 | 4822 051 10153 | 15k 2% 0,25W  |

## Jumpers

|      |                |              |
|------|----------------|--------------|
| 9039 | 4822 051 10333 | 33k 2% 0,25W |
| 4000 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4001 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4002 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4003 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4004 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4006 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4007 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4014 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4019 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4400 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4402 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4404 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4410 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4412 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4413 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4415 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4416 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4417 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4508 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4508 | 4822 051 10272 | 2k7 2% 0,25W |
| 4508 | 4822 051 10102 | 1k 2% 0,25W  |
| 4530 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4531 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4533 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4534 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4541 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4552 | 4822 051 10008 | 0Ω 5% 0,25W  |
| 4610 | 4822 051 10008 | 0Ω 5% 0,25W  |



|      |                |                        |
|------|----------------|------------------------|
| 5202 | 4822 212 23611 | transf. assy<br>CU20D3 |
| 5205 | 4822 212 23611 | transf. assy<br>CU20D3 |
| 5230 | 4822 148 81167 | SOPS transf.           |
| 5230 | 4822 148 81192 | SOPS transf. 33"       |
| 5231 | 4822 526 10494 | ferrite bead           |
| 5233 | 4822 526 10494 | ferrite bead           |
| 5235 | 4822 526 10494 | ferrite bead           |
| 5237 | 4822 526 10494 | ferrite bead           |
| 5241 | 4822 157 63249 | 33μH 10%               |
| 5255 | 4822 148 81225 | μSOPS transf.          |
| 5260 | 4822 526 10494 | ferrite bead           |
| 5262 | 4822 526 10494 | ferrite bead           |



|      |                |               |
|------|----------------|---------------|
| 5308 | 4822 157 62826 | 270μH 10%     |
| 5308 | 4822 157 63302 | 150μH 10% 33" |
| 5310 | 4822 157 63251 | 3,9μH 10%     |
| 5310 | 4822 157 63301 | 1μH 15% 33"   |
| 5381 | 4822 157 52265 | 100μH 10%     |
| 5503 | 4822 157 63252 | line driver   |
| 5511 | 4822 157 52407 | 39μH 7,5%     |
| 5514 | 4822 157 63256 | DC-SHIFT      |
| 5520 | 4822 157 63254 | LINEARITY     |
| 5521 | 4822 157 63255 | COIL          |
| 5524 | 4822 526 10494 | ferrite bead  |
| 5526 | 4822 157 63253 | EAST-WEST     |
| 5534 | 5322 157 52539 | 15μH 7,5%     |
| 5543 | 4822 158 10549 | 12μH 7,5%     |
| 5555 | 4822 140 10424 | L.O.T.        |



|      |                |              |
|------|----------------|--------------|
| 6000 | 4822 130 80446 | LL4148       |
| 6001 | 4822 130 80446 | BAS32L       |
| 6008 | 4822 209 73095 | P4KE30C-7000 |
| 6010 | 4822 130 80446 | LL4148       |
| 6011 | 4822 130 80446 | LL4148       |
| 6012 | 4822 130 80446 | LL4148       |
| 6016 | 4822 130 80446 | LL4148       |
| 6021 | 4822 130 80446 | LL4148       |
| 6201 | 4822 130 80446 | LL4148       |
| 6210 | 4822 130 33887 | GP15J-16     |
| 6211 | 4822 130 33887 | GP15J-16     |
| 6212 | 4822 130 33887 | GP15J-16     |
| 6213 | 4822 130 33887 | GP15J-16     |
| 6216 | 4822 130 42606 | BYD33J       |
| 6220 | 4822 130 33887 | GP15J        |
| 6221 | 4822 130 33887 | GP15J        |
| 6230 | 4822 130 33529 | BY229F-200   |
| 6232 | 4822 130 33529 | BY229F-200   |
| 6235 | 4822 130 81104 | MA689        |
| 6237 | 4822 130 80572 | RGP30J-L7004 |
| 6238 | 4822 130 80572 | RGP30J-L7004 |
| 6246 | 4822 130 82347 | LLZ-F6V8     |
| 6251 | 4822 130 80954 | LLZ-C5V6     |
| 6260 | 4822 130 80446 | LL4148       |
| 6262 | 4822 130 42488 | BYD33D       |
| 6266 | 4822 130 34278 | BZX79-F6V8   |
| 6272 | 4822 130 34173 | BZX55-B5V6   |
| 6280 | 4822 130 30621 | 1N4148       |
| 6302 | 4822 130 80446 | LL4148       |
| 6303 | 4822 130 80446 | LL4148       |
| 6304 | 4822 130 80446 | LL4148       |
| 6306 | 5322 130 31504 | BZX79-C20    |
| 6308 | 4822 130 42488 | BYD33D       |
| 6312 | 4822 130 42488 | BYD33D       |
| 6315 | 4822 130 80446 | LL4148       |
| 6318 | 4822 130 80446 | LL4148       |
| 6319 | 4822 130 34173 | BZX79-C5V6   |
| 6321 | 4822 130 80954 | BZV55-C5V6   |
| 6331 | 4822 130 30621 | 1N4148       |
| 6349 | 4822 130 80446 | LL4148       |
| 6350 | 4822 130 80446 | LL4148       |
| 6351 | 4822 130 30621 | 1N4148       |
| 6352 | 4822 130 80446 | LL4148       |
| 6353 | 4822 130 80446 | LL4148       |
| 6355 | 4822 130 80446 | LL4148       |
| 6356 | 4822 130 80886 | LLZ-F22      |
| 6357 | 4822 130 80446 | LL4148       |
| 6370 | 4822 130 81512 | LLZ-C6V2     |
| 6371 | 4822 130 80446 | LL4148       |
| 6372 | 4822 130 80446 | LL4148       |

## Large



|      |  |
|------|--|
| 6373 |  |
| 6375 |  |
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| 6441 |  |
| 6451 |  |
| 6452 |  |
| 6465 |  |
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| 6480 |  |
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| 7000 |  |
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| 7010 |  |
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| 7012 |  |
| 7013 |  |
| 7201 |  |
| 7216 |  |
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| 7241 |  |
| 7242 |  |
| 7243 |  |
| 7250 |  |
| 7251 |  |
| 7268 |  |
| 7270 |  |
| 7272 |  |
| 7273 |  |
| 7305 |  |
| 7311 |  |
| 7312 |  |
| 7312 |  |
| 7318 |  |
| 7320 |  |

Large signal panel **A B G**

|      |                |            |
|------|----------------|------------|
| 6373 | 4822 130 82583 | LLZ-C9V1   |
| 6375 | 4822 130 80446 | LL4148     |
| 6376 | 4822 130 80922 | LLZ-C18    |
| 6376 | 4822 130 81143 | BZV55-C20  |
| 6403 | 4822 130 80446 | LL4148     |
| 6404 | 4822 130 80446 | LL4148     |
| 6417 | 4822 130 81223 | LLZ-C2V4   |
| 6440 | 4822 130 80446 | LL4148     |
| 6441 | 4822 130 80446 | LL4148     |
| 6451 | 5322 130 34834 | BZX79-C3V6 |
| 6452 | 4822 130 42488 | BYD33D     |
| 6465 | 4822 130 80446 | LL4148     |
| 6466 | 4822 130 80446 | LL4148     |
| 6480 | 4822 130 31554 | BZX79-C4V3 |
| 6504 | 4822 130 42488 | BYD33D     |
| 6506 | 4822 130 42488 | BYD33D     |
| 6515 | 4822 130 80877 | BAV103     |
| 6516 | 4822 130 80877 | BAV103     |
| 6517 | 4822 130 42488 | BYD33D     |
| 6519 | 4822 130 32896 | BYD33M     |
| 6520 | 4822 130 32896 | BYD33M     |
| 6526 | 4822 130 33531 | BY229F-600 |
| 6527 | 4822 130 82966 | MURF10150E |
| 6529 | 4822 130 34329 | BZX79-C43  |
| 6535 | 4822 130 82512 | BYV29F-400 |
| 6536 | 4822 130 82758 | BYV29F-300 |
| 6542 | 4822 130 30842 | BAV21      |
| 6546 | 4822 130 80446 | LL4148     |
| 6547 | 4822 130 80446 | LL4148     |
| 6551 | 4822 130 34278 | BZX79-B6V8 |
| 6553 | 4822 130 82334 | BAS85      |
| 6601 | 4822 130 42488 | BYD33D     |
| 6629 | 4822 130 80446 | LL4148     |



|      |                |              |
|------|----------------|--------------|
| 7000 | 4822 209 73311 | TDA1521Q/N4  |
| 7001 | 4822 209 73311 | TDA1521Q/N4  |
| 7002 | 4822 209 83163 | LM833N       |
| 7003 | 4822 130 61207 | BC848        |
| 7005 | 5322 130 42136 | BC848C       |
| 7006 | 5322 130 42136 | BC848C       |
| 7007 | 4822 130 61207 | BC848        |
| 7008 | 4822 130 61207 | BC848        |
| 7009 | 4822 209 83163 | LM833N       |
| 7010 | 5322 130 42012 | BC858        |
| 7011 | 4822 209 63913 | TDA1521AQ/N4 |
| 7012 | 4822 130 61207 | BC848        |
| 7013 | 4822 130 61207 | BC848        |
| 7201 | 5322 130 42756 | BC857C       |
| 7216 | 4822 130 60851 | 2SC3973B     |
| 7216 | 4822 130 62735 | BUT12AF      |
| 7241 | 4822 130 61003 | BD944F       |
| 7242 | 5322 130 41981 | BC848A       |
| 7243 | 5322 130 41981 | BC848A       |
| 7250 | 4822 130 62509 | BUX85F       |
| 7251 | 4822 130 61207 | BC848        |
| 7268 | 4822 130 44121 | BC338        |
| 7270 | 4822 130 40823 | BD135        |
| 7272 | 4822 130 61207 | BC848        |
| 7273 | 4822 130 42513 | BC858C       |
| 7305 | 5322 130 42136 | BC848C       |
| 7311 | 4822 130 42513 | BC858C       |
| 7312 | 5322 130 44647 | BC368        |
| 7312 | 4822 130 62955 | ON4703-BD437 |
| 7318 | 4822 130 42615 | BC817-40     |
| 7320 | 4822 130 82034 | CNX83A       |



|      |                |             |
|------|----------------|-------------|
| 7321 | 4822 130 62742 | BD943F      |
| 7360 | 5322 130 42756 | BC857C      |
| 7369 | 5322 130 42755 | BC847C      |
| 7370 | 5322 130 42755 | BC847C      |
| 7371 | 4822 130 42513 | BC858C      |
| 7380 | 4822 130 42513 | BC858C      |
| 7381 | 5322 130 42136 | BC848C      |
| 7384 | 5322 130 42755 | BC847C      |
| 7385 | 5322 130 42136 | BC848C      |
| 7400 | 4822 209 72363 | TDA2579A/N8 |
| 7402 | 5322 130 42136 | BC848C      |
| 7403 | 4822 130 42513 | BC858C      |
| 7407 | 4822 130 61207 | BC848       |
| 7417 | 4822 130 42513 | BC858C      |
| 7444 | 5322 130 42136 | BC848C      |
| 7445 | 5322 130 42136 | BC848C      |
| 7450 | 4822 209 73308 | TDA3654Q/N3 |
| 7451 | 5322 130 42012 | BC858       |
| 7469 | 4822 130 44104 | BC328       |
| 7480 | 4822 130 42513 | BC858C      |
| 7481 | 5322 130 42136 | BC848C      |
| 7504 | 4822 130 62934 | 2 x ON4673  |
| 7506 | 4822 130 62934 | 2 x ON4673  |
| 7512 | 4822 130 44196 | BC548C      |
| 7513 | 5322 130 60068 | BC558C      |
| 7530 | 4822 130 61233 | BC857       |
| 7540 | 5322 130 42755 | BC847C      |
| 7541 | 5322 130 42755 | BC847C      |
| 7542 | 5322 130 42756 | BC857C      |
| 7543 | 4822 130 60136 | BC856       |
| 7550 | 4822 130 80669 | BD643F      |
| 7601 | 4822 130 61207 | BC848       |
| 7602 | 5322 130 42012 | BC858       |
| 7603 | 5322 130 42012 | BC858       |
| 7608 | 4822 130 44503 | BC547C      |
| 7610 | 4822 130 60111 | 2SA1359     |
| 7616 | 4822 130 61207 | BC848       |
| 7618 | 4822 130 61207 | BC848       |

Small signal panel **C D F H**

## Connectors

|                |               |
|----------------|---------------|
| 4822 265 40252 | 7P male       |
| 4822 265 40253 | 8P            |
| 4822 265 41113 | 7P            |
| 4822 265 41114 | 9P            |
| 4822 265 41086 | 9P male       |
| 4822 265 41082 | 10P           |
| 4822 290 40295 | 7P male       |
| 4822 267 40648 | 5P male gold  |
| 4822 264 50149 | 10P male gold |
| 4822 264 40207 | 3P male       |
| 4822 264 50149 | 10P male gold |
| 4822 265 40442 | 10P male      |
| 4822 264 40207 | 3P male red   |
| 4822 265 20509 | 2P male       |
| 4822 265 30828 | 5P male brown |
| 4822 265 30899 | 5P male black |
| 4822 267 40648 | 5P male gold  |
| 4822 265 30437 | 3P male       |

## Various parts

|                     |                  |
|---------------------|------------------|
| 4822 267 20427      | socket           |
|                     | SCART + 4xcinch  |
| 4822 267 51058      | socket SCART     |
| 4822 267 41005      | socket           |
|                     | 2xcinch + 2xSVHS |
| 4822 267 41004      | socket HEADPH.   |
|                     | + cinch + SVHS   |
| 4822 218 21075      | keyboard         |
| 4822 255 40901      | socket 40 POLE   |
| 4822 212 23281      | IR receiver      |
| 1100 4822 210 10409 | FQ816ME/IF       |
| 1160 4822 210 10416 | FQ816MF/IF       |
| 1160 4822 210 10412 | FQ844            |
| 1248 4822 242 80364 | filter 4,43MHz   |
| 1379 4822 242 70736 | crystal 7,159MHz |
| 1380 4822 242 70304 | crystal 8,867MHz |
| 1602 4822 242 80276 | crystal 10MHz    |



|      |                |                |
|------|----------------|----------------|
| 2100 | 4822 124 40684 | 150µF 20% 6,3V |
| 2111 | 4822 122 32863 | 22nF 80% 50V   |
| 2114 | 4822 124 22606 | 68µF 20% 16V   |
| 2118 | 4822 122 31797 | 22nF 10% 63V   |
| 2119 | 4822 122 31797 | 22nF 10% 63V   |
| 2120 | 4822 122 32863 | 22nF 80% 50V   |
| 2121 | 5322 122 31647 | 1nF 10% 63V    |
| 2122 | 4822 122 32442 | 10nF 50V       |
| 2123 | 4822 126 11804 | 330nF          |
| 2130 | 4822 122 31797 | 22nF 10% 63V   |
| 2131 | 4822 124 22606 | 68µF 20% 16V   |
| 2132 | 4822 122 31797 | 22nF 10% 63V   |
| 2137 | 4822 122 32442 | 10nF 50V       |
| 2138 | 4822 124 40193 | 68µF 20% 16V   |
| 2160 | 4822 124 40849 | 330µF 20% 16V  |
| 2161 | 4822 122 33496 | 100nF 10% 63V  |
| 2163 | 4822 122 33496 | 100nF 10% 63V  |
| 2164 | 4822 122 33496 | 100nF 10% 63V  |
| 2166 | 4822 124 40684 | 150µF 20% 6,3V |
| 2168 | 4822 122 32927 | 220nF          |
| 2169 | 4822 122 32442 | 10nF 50V       |
| 2170 | 4822 124 40195 | 150µF 20% 16V  |
| 2171 | 4822 122 32862 | 10nF 80% 50V   |
| 2172 | 4822 124 41506 | 47µF 20% 16V   |
| 2188 | 4822 122 32863 | 22nF 80% 50V   |
| 2189 | 4822 122 32863 | 22nF 80% 50V   |
| 2190 | 4822 122 32863 | 22nF 80% 50V   |



|      |                |               |
|------|----------------|---------------|
| 2193 | 4822 122 32153 | 1,8nF 10% 63V |
| 2194 | 4822 122 32153 | 1,8nF 10% 63V |
| 2196 | 4822 124 22606 | 68µF 20% 16V  |
| 2197 | 4822 124 22606 | 68µF 20% 16V  |
| 2216 | 4822 122 32927 | 220nF         |
| 2219 | 4822 122 32927 | 220nF         |
| 2234 | 4822 122 32927 | 220nF         |
| 2240 | 4822 122 32927 | 220nF         |
| 2241 | 4822 121 42408 | 220nF 5% 63V  |
| 2242 | 4822 124 40196 | 220µF 20% 16V |
| 2243 | 4822 121 42408 | 220nF 5% 63V  |
| 2245 | 4822 122 32927 | 220nF         |
| 2249 | 4822 122 32862 | 10nF 80% 50V  |
| 2250 | 4822 051 10102 | 1K 2% 0,25W   |
| 2252 | 4822 121 42408 | 220nF 5% 63V  |
| 2253 | 4822 126 11492 | 220nF 10% 50V |
| 2254 | 4822 122 32927 | 220nF         |
| 2255 | 4822 124 41643 | 100µF 20% 16V |
| 2257 | 4822 122 31947 | 100nF 20% 63V |
| 2258 | 4822 122 31765 | 100pF 5% 50V  |
| 2260 | 4822 122 31947 | 100nF 20% 63V |
| 2261 | 4822 122 31947 | 100nF 20% 63V |
| 2268 | 4822 122 31947 | 100nF 20% 63V |
| 2269 | 4822 122 32482 | 22pF 5% 63V   |
| 2270 | 4822 122 32863 | 22nF 80% 50V  |
| 2274 | 4822 122 32862 | 10nF 80% 50V  |
| 2301 | 5322 122 31647 | 1nF 10% 63V   |
| 2305 | 4822 126 10324 | 33pF 63V      |
| 2306 | 4822 122 31772 | 47pF 5% 50V   |
| 2307 | 4822 122 31971 | 10pF 10% 50V  |
| 2310 | 4822 122 31774 | 56pF 5% 50V   |
| 2311 | 4822 122 31765 | 100pF 5% 50V  |
| 2311 | 4822 122 31808 | 150pF 10% 50V |
| 2312 | 4822 122 32863 | 22nF 80% 50V  |
| 2318 | 4822 121 42408 | 220nF 5% 63V  |
| 2324 | 4822 122 32863 | 22nF 80% 50V  |
| 2338 | 4822 122 31972 | 39pF 5% 50V   |
| 2338 | 4822 122 31772 | 47pF 5% 50V   |
| 2339 | 4822 122 31772 | 47pF 5% 50V   |
| 2342 | 4822 122 31972 | 39pF 5% 50V   |
| 2343 | 4822 122 31727 | 470pF 5% 63V  |
| 2344 | 4822 122 31775 | 680pF 5% 50V  |
| 2345 | 4822 122 31807 | 1200pF 5% 50V |
| 2347 | 5322 122 31647 | 1nF 10% 63V   |
| 2353 | 4822 122 32862 | 10nF 80% 50V  |
| 2360 | 4822 124 40272 | 33µF 20% 16V  |
| 2361 | 4822 124 40849 | 330µF 20% 16V |
| 2365 | 4822 122 31352 | 180pF 2% 100V |
| 2366 | 4822 122 32863 | 22nF 80% 50V  |
| 2367 | 4822 122 32862 | 10nF 80% 50V  |
| 2368 | 4822 122 32862 | 10nF 80% 50V  |
| 2369 | 4822 122 31825 | 27pF 10% 50V  |
| 2371 | 4822 122 31825 | 27pF 10% 50V  |
| 2372 | 4822 122 31965 | 220pF 5% 63V  |
| 2373 | 4822 122 31965 | 220pF 5% 63V  |
| 2374 | 4822 122 32863 | 22nF 80% 50V  |
| 2375 | 4822 122 32863 | 22nF 80% 50V  |
| 2376 | 5322 122 31641 | 47nF 50V      |
| 2377 | 5322 121 42661 | 330nF 5% 63V  |
| 2378 | 4822 122 31947 | 100nF 20% 63V |
| 2379 | 4822 125 50207 | 33pF trimmer  |
| 2380 | 4822 125 50207 | 33pF trimmer  |
| 2381 | 5322 121 42661 | 330nF 5% 63V  |
| 2382 | 5322 122 31647 | 1nF 10% 63V   |
| 2383 | 4822 122 32442 | 10nF 50V      |
| 2384 | 5322 122 31647 | 1nF 10% 63V   |
| 2385 | 4822 122 32442 | 10nF 50V      |
| 2386 | 4822 122 32862 | 10nF 80% 50V  |



|      |                |               |
|------|----------------|---------------|
| 2387 | 4822 124 40435 | 10µF 20% 50V  |
| 2388 | 5322 122 33446 | 3,3nF 10% 63V |
| 2390 | 4822 122 32863 | 22nF 80% 50V  |
| 2391 | 4822 122 32863 | 22nF 80% 50V  |
| 2392 | 4822 122 32863 | 22nF 80% 50V  |
| 2395 | 4822 122 32863 | 22nF 80% 50V  |
| 2396 | 4822 122 32863 | 22nF 80% 50V  |
| 2397 | 4822 122 32863 | 22nF 80% 50V  |
| 2398 | 4822 124 40435 | 10µF 20% 50V  |
| 2399 | 4822 124 41506 | 47µF 20% 16V  |
| 2400 | 4822 122 32863 | 22nF 80% 50V  |
| 2433 | 4822 122 32863 | 22nF 80% 50V  |
| 2434 | 5322 122 33446 | 3,3nF 10% 63V |
| 2435 | 5322 122 33446 | 3,3nF 10% 63V |
| 2436 | 4822 122 31961 | 68pF 5% 63V   |
| 2438 | 4822 122 32863 | 22nF 80% 50V  |
| 2440 | 4822 122 32863 | 22nF 80% 50V  |
| 2442 | 4822 122 32863 | 22nF 80% 50V  |
| 2445 | 4822 126 11804 | 330nF         |
| 2446 | 4822 126 11804 | 330nF         |
| 2447 | 4822 126 11804 | 330nF         |
| 2451 | 5322 121 42661 | 330nF 5% 63V  |
| 2452 | 4822 124 40242 | 1µF 20% 63V   |
| 2453 | 4822 122 31774 | 56pF 5% 50V   |
| 2454 | 4822 126 10324 | 33pF 63V      |
| 2455 | 4822 126 10324 | 33pF 63V      |
| 2456 | 4822 126 10324 | 33pF 63V      |
| 2476 | 4822 124 41577 | 4,7µF 20% 50V |
| 2478 | 4822 122 31784 | 4,7nF 10% 50V |
| 2479 | 4822 122 33105 | 56nF 10% 63V  |
| 2480 | 4822 124 40272 | 33µF 20% 16V  |
| 2600 | 4822 122 31947 | 100nF 20% 63V |
| 2602 | 4822 122 31947 | 100nF 20% 63V |
| 2604 | 4822 122 31947 | 100nF 20% 63V |
| 2606 | 4822 122 31947 | 100nF 20% 63V |
| 2608 | 4822 122 32927 | 220nF         |
| 2620 | 4822 122 33496 | 100nF 10% 63V |
| 2620 | 4822 122 32927 | 220nF         |
| 2621 | 4822 122 33496 | 100nF 10% 63V |
| 2622 | 4822 122 33496 | 100nF 10% 63V |
| 2622 | 4822 122 32927 | 220nF         |
| 2623 | 4822 122 33496 | 100nF 10% 63V |
| 2624 | 5322 122 31842 | 330pF 5% 63V  |
| 2626 | 4822 121 42408 | 220nF 5% 63V  |
| 2627 | 5322 124 41431 | 22µF 20% 35V  |
| 2628 | 5322 122 31842 | 330pF 5% 63V  |
| 2630 | 4822 122 32927 | 220nF         |
| 2632 | 5322 122 31842 | 330pF 5% 63V  |
| 2634 | 4822 121 42408 | 220nF 5% 63V  |
| 2636 | 5322 122 31842 | 330pF 5% 63V  |
| 2638 | 4822 121 42408 | 220nF 5% 63V  |
| 2640 | 5322 122 31842 | 330pF 5% 63V  |
| 2642 | 4822 122 32927 | 220nF         |
| 2644 | 5322 122 31842 | 330pF 5% 63V  |
| 2646 | 4822 122 32927 | 220nF         |
| 2658 | 4822 122 31961 | 68pF 5% 63V   |
| 2659 | 4822 122 31961 | 68pF 5% 63V   |
| 2660 | 5322 122 31647 | 1nF 10% 63V   |
| 2662 | 5322 122 31647 | 1nF 10% 63V   |
| 2664 | 4822 122 32153 | 1,8nF 10% 63V |
| 2666 | 4822 122 32153 | 1,8nF 10% 63V |
| 2680 | 4822 122 31947 | 100nF 20% 63V |
| 2681 | 4822 122 32542 | 47nF 10% 63V  |
| 2682 | 4822 124 40195 | 150µF 20% 16V |
| 2684 | 4822 121 51252 | 470nF 5% 63V  |
| 2686 | 4822 121 51252 | 470nF 5% 63V  |
| 2688 | 4822 122 31782 | 15nF 10% 50V  |
| 2690 | 4822 122 31782 | 15nF 10% 50V  |

## Sm



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| 3154                                                                                |  |

Small signal panel **C D F H**

|      |                |                         |
|------|----------------|-------------------------|
| 2692 | 4822 122 31981 | 33nF $\pm 0,5pF$<br>50V |
| 2694 | 4822 122 31916 | 5,6nF 10% 63V           |
| 2696 | 4822 122 31981 | 33nF $\pm 0,5pF$<br>50V |
| 2697 | 4822 122 31965 | 220pF 5% 63V            |
| 2698 | 4822 122 31916 | 5,6nF 10% 63V           |
| 2699 | 4822 122 31965 | 220pF 5% 63V            |
| 2700 | 4822 124 40242 | 1 $\mu F$ 20% 63V       |
| 2702 | 4822 124 40242 | 1 $\mu F$ 20% 63V       |
| 2704 | 4822 122 31644 | 2,2nF 10% 63V           |
| 2706 | 5322 124 41431 | 22 $\mu F$ 20% 35V      |
| 2707 | 4822 122 31784 | 4,7nF 10% 50V           |
| 2714 | 4822 122 32863 | 22nF 80% 50V            |
| 2716 | 4822 122 32597 | 6,8nF 10% 63V           |
| 2720 | 5322 124 41431 | 22 $\mu F$ 20% 35V      |
| 2721 | 4822 122 31784 | 4,7nF 10% 50V           |
| 2726 | 4822 122 31644 | 2,2nF 10% 63V           |
| 2727 | 4822 124 42362 | 33 $\mu F$ 20% 16V      |
| 2734 | 4822 122 32863 | 22nF 80% 50V            |
| 2736 | 4822 122 32597 | 6,8nF 10% 63V           |



|      |                |                       |
|------|----------------|-----------------------|
| 3100 | 4822 051 10102 | 1k 2% 0,25W           |
| 3101 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3103 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3104 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3105 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3113 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3114 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3115 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3116 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3117 | 4822 051 20222 | 2k 2% 0,1W            |
| 3119 | 4822 051 20222 | 2k 2% 0,1W            |
| 3120 | 4822 051 20222 | 2k 2% 0,1W            |
| 3121 | 4822 051 10123 | 12k 2% 0,25W          |
| 3122 | 4822 051 10822 | 8k 2% 0,25W           |
| 3123 | 4822 051 10822 | 8k 2% 0,25W           |
| 3124 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3125 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3126 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3127 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3128 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W |
| 3129 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3131 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3132 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3133 | 4822 051 10151 | 150 $\Omega$ 2% 0,25W |
| 3134 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3135 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3136 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W |
| 3137 | 4822 116 52183 | 16 $\Omega$ 5% 0,5W   |
| 3138 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3139 | 4822 116 52175 | 100 $\Omega$ 5% 0,5W  |
| 3140 | 4822 050 11002 | 1k 1% 0,4W            |
| 3141 | 4822 050 11002 | 1k 1% 0,4W            |
| 3142 | 4822 050 11002 | 1k 1% 0,4W            |
| 3143 | 4822 050 11002 | 1k 1% 0,4W            |
| 3144 | 4822 050 11002 | 1k 1% 0,4W            |
| 3145 | 4822 050 11002 | 1k 1% 0,4W            |
| 3146 | 4822 050 11002 | 1k 1% 0,4W            |
| 3148 | 4822 051 10473 | 47k 2% 0,25W          |
| 3149 | 4822 051 10473 | 47k 2% 0,25W          |
| 3150 | 4822 051 10473 | 47k 2% 0,25W          |
| 3151 | 4822 051 10562 | 5k 2% 0,25W           |
| 3152 | 4822 051 10103 | 10k 2% 0,25W          |
| 3153 | 4822 051 10103 | 10k 2% 0,25W          |
| 3154 | 4822 051 10152 | 1k5 2% 0,25W          |



|      |                |                           |
|------|----------------|---------------------------|
| 3155 | 4822 051 10104 | 100k 2% 0,25W             |
| 3156 | 4822 051 10562 | 5k 2% 0,25W               |
| 3157 | 4822 050 11002 | 1k 1% 0,4W                |
| 3158 | 4822 050 11002 | 1k 1% 0,4W                |
| 3159 | 4822 051 10103 | 10k 2% 0,25W              |
| 3160 | 4822 052 10758 | 70 $\Omega$ 5% 0,33W      |
| 3160 | 4822 052 10109 | 10 $\Omega$ 5% 0,33W      |
| 3160 | 4822 116 81203 | 10 $\Omega$ 5% 0,3W       |
| 3161 | 4822 051 10103 | 10k 2% 0,25W              |
| 3162 | 4822 052 10758 | 70 $\Omega$ 5% 0,33W      |
| 3163 | 4822 051 10223 | 22k 2% 0,25W              |
| 3164 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3165 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3166 | 4822 052 10228 | 20 $\Omega$ 5% 0,33W      |
| 3167 | 4822 051 10122 | 1k 2% 0,25W               |
| 3168 | 5322 111 90282 | 2k 2% 0,25W               |
| 3169 | 4822 050 11002 | 1k 1% 0,4W                |
| 3170 | 4822 116 82772 | 30 $\Omega$ 5% 0,3W       |
| 3171 | 4822 052 11511 | 510 $\Omega$ 5% 0,5W      |
| 3172 | 4822 052 10229 | 22 $\Omega$ 5% 0,33W      |
| 3175 | 4822 051 10153 | 15k 2% 0,25W              |
| 3176 | 4822 051 10103 | 10k 2% 0,25W              |
| 3177 | 4822 051 10103 | 10k 2% 0,25W              |
| 3178 | 4822 051 10223 | 22k 2% 0,25W              |
| 3180 | 4822 116 52224 | 470 $\Omega$ 5% 0,5W      |
| 3181 | 4822 051 10822 | 8k 2% 0,25W               |
| 3182 | 4822 116 52214 | 200 $\Omega$ 5% 0,5W      |
| 3183 | 4822 116 52233 | 10k 5% 0,5W               |
| 3184 | 4822 051 51201 | 120 $\Omega$ 1%<br>0,125W |
| 3185 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3186 | 4822 116 52256 | 2k 2% 0,5W                |
| 3187 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3188 | 4822 051 20222 | 2k 2% 0,1W                |
| 3189 | 4822 051 10223 | 22k 2% 0,25W              |
| 3190 | 4822 051 10823 | 82k 2% 0,25W              |
| 3191 | 4822 051 56203 | 62k 1% 0,125W             |
| 3192 | 4822 051 10153 | 15k 2% 0,25W              |
| 3193 | 4822 051 10331 | 330 $\Omega$ 2% 0,25W     |
| 3194 | 4822 051 10331 | 330 $\Omega$ 2% 0,25W     |
| 3196 | 4822 051 10473 | 47k 2% 0,25W              |
| 3197 | 4822 051 10473 | 47k 2% 0,25W              |
| 3200 | 4822 051 10472 | 4k 2% 0,25W               |
| 3201 | 4822 051 10472 | 4k 2% 0,25W               |
| 3205 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3206 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3207 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3208 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3209 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3210 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3211 | 4822 116 52217 | 270 $\Omega$ 5% 0,5W      |
| 3215 | 4822 051 10689 | 68 $\Omega$ 2% 0,25W      |
| 3216 | 4822 052 10159 | 15 $\Omega$ 5% 0,33W      |
| 3217 | 4822 116 52224 | 470 $\Omega$ 5% 0,5W      |
| 3218 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3219 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3220 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3222 | 4822 116 52217 | 270 $\Omega$ 5% 0,5W      |
| 3224 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3225 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3232 | 4822 051 10102 | 1k 2% 0,25W               |
| 3233 | 4822 051 10102 | 1k 2% 0,25W               |
| 3234 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3235 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3237 | 4822 116 52217 | 270 $\Omega$ 5% 0,5W      |
| 3238 | 4822 116 52222 | 390 $\Omega$ 5% 0,5W      |
| 3239 | 4822 051 10271 | 270 $\Omega$ 2% 0,25W     |
| 3240 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |



|      |                |                           |
|------|----------------|---------------------------|
| 3241 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3242 | 4822 116 52219 | 330 $\Omega$ 5% 0,5W      |
| 3243 | 4822 051 10152 | 1k5 2% 0,25W              |
| 3244 | 4822 051 10102 | 1k 2% 0,25W               |
| 3245 | 4822 051 10474 | 470k 2% 0,25W             |
| 3246 | 4822 051 10331 | 330 $\Omega$ 2% 0,25W     |
| 3247 | 4822 051 10102 | 1k 2% 0,25W               |
| 3248 | 4822 051 10681 | 680 $\Omega$ 2% 0,25W     |
| 3249 | 4822 051 10102 | 1k 2% 0,25W               |
| 3251 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3252 | 4822 051 10759 | 75 $\Omega$ 2% 0,25W      |
| 3253 | 4822 051 10561 | 560 $\Omega$ 2% 0,25W     |
| 3253 | 4822 051 10331 | 330 $\Omega$ 2% 0,25W     |
| 3254 | 4822 052 10159 | 15 $\Omega$ 5% 0,33W      |
| 3255 | 4822 051 10821 | 820 $\Omega$ 2% 0,25W     |
| 3259 | 4822 051 10103 | 10k 2% 0,25W              |
| 3260 | 4822 052 10159 | 15 $\Omega$ 5% 0,33W      |
| 3261 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3262 | 4822 051 10103 | 10k 2% 0,25W              |
| 3263 | 4822 051 10689 | 68 $\Omega$ 2% 0,25W      |
| 3264 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3265 | 4822 051 10103 | 10k 2% 0,25W              |
| 3266 | 4822 051 10103 | 10k 2% 0,25W              |
| 3267 | 4822 051 10103 | 10k 2% 0,25W              |
| 3268 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3269 | 4822 051 10561 | 560 $\Omega$ 2% 0,25W     |
| 3270 | 4822 051 10472 | 4k 2% 0,25W               |
| 3271 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3272 | 4822 116 52228 | 680 $\Omega$ 5% 0,5W      |
| 3273 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3274 | 4822 051 10103 | 10k 2% 0,25W              |
| 3275 | 4822 051 10689 | 68 $\Omega$ 2% 0,25W      |
| 3276 | 4822 051 10471 | 470 $\Omega$ 2% 0,25W     |
| 3277 | 4822 051 10271 | 270 $\Omega$ 2% 0,25W     |
| 3279 | 4822 051 10689 | 68 $\Omega$ 2% 0,25W      |
| 3285 | 4822 051 10103 | 10k 2% 0,25W              |
| 3286 | 4822 051 10103 | 10k 2% 0,25W              |
| 3287 | 4822 051 10103 | 10k 2% 0,25W              |
| 3288 | 4822 051 10103 | 10k 2% 0,25W              |
| 3300 | 4822 051 10103 | 10k 2% 0,25W              |
| 3301 | 4822 051 10332 | 3k 2% 0,25W               |
| 3303 | 4822 051 10361 | 360 $\Omega$ 2% 0,25W     |
| 3304 | 4822 051 51201 | 120 $\Omega$ 1%<br>0,125W |
| 3304 | 4822 051 10101 | 100 $\Omega$ 2% 0,25W     |
| 3305 | 4822 051 10104 | 100k 2% 0,25W             |
| 3306 | 4822 051 10221 | 220 $\Omega$ 2% 0,25W     |
| 3306 | 4822 051 10241 | 240 $\Omega$ 2% 0,25W     |
| 3310 | 4822 116 52207 | 1k 2% 0,5W                |
| 3311 | 4822 051 10182 | 1k 2% 0,25W               |
| 3312 | 4822 051 10511 | 510 $\Omega$ 2% 0,25W     |
| 3313 | 4822 051 10362 | 3k 2% 0,25W               |
| 3314 | 4822 051 10102 | 1k 2% 0,25W               |
| 3315 | 4822 051 10103 | 10k 2% 0,25W              |
| 3316 | 4822 051 10112 | 1k 2% 0,25W               |
| 3317 | 4822 116 52233 | 10k 5% 0,5W               |
| 3324 | 4822 051 10223 | 22k 2% 0,25W              |
| 3325 | 4822 051 10682 | 6k 2% 0,25W               |
| 3326 | 4822 051 10103 | 10k 2% 0,25W              |
| 3327 | 4822 051 10122 | 1k 2% 0,25W               |
| 3329 | 4822 051 10392 | 3k 2% 0,25W               |
| 3329 | 4822 051 10108 | 10 $\Omega$ 5% 0,25W      |
| 3336 | 4822 051 10472 | 4k 2% 0,25W               |
| 3338 | 4822 051 10391 | 390 $\Omega$ 2% 0,25W     |
| 3339 | 4822 051 10153 | 15k 2% 0,25W              |
| 3339 | 4822 051 10391 | 390 $\Omega$ 2% 0,25W     |
| 3342 | 4822 051 20222 | 2k 2% 0,1W                |
| 3344 | 4822 051 10273 | 27k 2% 0,25W              |

Small signal panel **C D F H**

|      |                |                |
|------|----------------|----------------|
| 3345 | 4822 051 10102 | 1k 2% 0,25W    |
| 3350 | 4822 051 51201 | 120Ω 1% 0,125W |
| 3351 | 4822 051 10472 | 4k7 2% 0,25W   |
| 3353 | 4822 051 10332 | 3k3 2% 0,25W   |
| 3360 | 4822 052 10278 | 207 5% 0,33W   |
| 3361 | 4822 051 10102 | 1k 2% 0,25W    |
| 3369 | 4822 051 10331 | 330Ω 2% 0,25W  |
| 3370 | 4822 100 11391 | 330Ω 30% LIN   |
| 3371 | 4822 051 10431 | 430Ω 2% 0,25W  |
| 3372 | 4822 051 10331 | 330Ω 2% 0,25W  |
| 3375 | 4822 051 10008 | 0Ω 5% 0,25W    |
| 3376 | 4822 116 52286 | 5k1 5% 0,5W    |
| 3377 | 4822 051 10103 | 10k 2% 0,25W   |
| 3377 | 4822 051 10682 | 6k8 2% 0,25W   |
| 3380 | 4822 050 11002 | 1k 1% 0,4W     |
| 3382 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3383 | 4822 051 10333 | 33k 2% 0,25W   |
| 3385 | 4822 051 10105 | 1M 5% 0,25W    |
| 3387 | 4822 050 11002 | 1k 1% 0,4W     |
| 3389 | 4822 051 10182 | 1k8 2% 0,25W   |
| 3390 | 4822 051 10821 | 820Ω 2% 0,25W  |
| 3391 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3392 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3393 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3394 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3395 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3396 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3397 | 4822 052 10249 | 24Ω 5% 0,33W   |
| 3398 | 4822 116 52175 | 100Ω 5% 0,5W   |
| 3399 | 4822 116 52175 | 100Ω 5% 0,5W   |
| 3410 | 4822 116 52224 | 470Ω 5% 0,5W   |
| 3425 | 4822 116 52224 | 470Ω 5% 0,5W   |
| 3426 | 4822 116 52224 | 470Ω 5% 0,5W   |
| 3450 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3451 | 4822 051 10432 | 4k3 2% 0,25W   |
| 3453 | 4822 051 10511 | 510Ω 2% 0,25W  |
| 3454 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3455 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3456 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3465 | 4822 050 11002 | 1k 1% 0,4W     |
| 3471 | 4822 116 52233 | 10k 5% 0,5W    |
| 3472 | 4822 051 10682 | 6k8 2% 0,25W   |
| 3473 | 4822 051 10362 | 3k6 2% 0,25W   |
| 3474 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3475 | 4822 051 10124 | 120k 2% 0,25W  |
| 3476 | 4822 051 10154 | 150k 2% 0,25W  |
| 3477 | 4822 116 52286 | 5k1 5% 0,5W    |
| 3478 | 4822 116 52175 | 100Ω 5% 0,5W   |
| 3478 | 4822 116 52224 | 470Ω 5% 0,5W   |
| 3479 | 4822 051 10223 | 22k 2% 0,25W   |
| 3480 | 4822 052 10278 | 207 5% 0,33W   |
| 3481 | 4822 052 10278 | 207 5% 0,33W   |
| 3482 | 4822 116 52223 | 430Ω 5% 0,5W   |
| 3483 | 4822 116 52175 | 100Ω 5% 0,5W   |
| 3488 | 4822 051 20222 | 2k2 5% 0,1W    |
| 3492 | 4822 051 10471 | 470Ω 2% 0,25W  |
| 3590 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3600 | 4822 051 10362 | 3k6 2% 0,25W   |
| 3600 | 4822 051 10472 | 4k7 2% 0,25W   |
| 3602 | 4822 100 11212 | 2k2 30% LIN    |
| 3603 | 4822 051 10332 | 3k3 2% 0,25W   |
| 3604 | 4822 051 10182 | 1k8 2% 0,25W   |
| 3605 | 4822 051 10472 | 4k7 2% 0,25W   |
| 3606 | 4822 052 10279 | 27Ω 5% 0,33W   |
| 3607 | 4822 051 10302 | 3k 2% 0,25W    |
| 3608 | 4822 051 10101 | 100Ω 2% 0,25W  |
| 3610 | 4822 051 10101 | 100Ω 2% 0,25W  |



|      |                |               |
|------|----------------|---------------|
| 3612 | 4822 051 10102 | 1k 2% 0,25W   |
| 3620 | 4822 051 10183 | 18k 2% 0,25W  |
| 3622 | 4822 051 10183 | 18k 2% 0,25W  |
| 3624 | 4822 051 10102 | 1k 2% 0,25W   |
| 3626 | 4822 051 10183 | 18k 2% 0,25W  |
| 3628 | 4822 051 10102 | 1k 2% 0,25W   |
| 3630 | 4822 051 10183 | 18k 2% 0,25W  |
| 3632 | 4822 051 10102 | 1k 2% 0,25W   |
| 3634 | 4822 051 10183 | 18k 2% 0,25W  |
| 3636 | 4822 051 10102 | 1k 2% 0,25W   |
| 3638 | 4822 051 10183 | 18k 2% 0,25W  |
| 3640 | 4822 051 10102 | 1k 2% 0,25W   |
| 3642 | 4822 051 10183 | 18k 2% 0,25W  |
| 3644 | 4822 051 10102 | 1k 2% 0,25W   |
| 3646 | 4822 051 10183 | 18k 2% 0,25W  |
| 3650 | 4822 051 10392 | 3k9 2% 0,25W  |
| 3651 | 4822 051 10123 | 12k 2% 0,25W  |
| 3652 | 4822 051 10392 | 3k9 2% 0,25W  |
| 3653 | 4822 051 10123 | 12k 2% 0,25W  |
| 3654 | 4822 116 52244 | 15k 5% 0,5W   |
| 3660 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3662 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3664 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3665 | 4822 052 10159 | 15Ω 5% 0,33W  |
| 3666 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3668 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3672 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3680 | 4822 052 10279 | 27Ω 5% 0,33W  |
| 3682 | 4822 051 10568 | 506 5% 0,25W  |
| 3684 | 4822 116 52175 | 100Ω 5% 0,5W  |
| 3686 | 4822 116 52175 | 100Ω 5% 0,5W  |
| 3700 | 4822 116 52263 | 2k7 5% 0,5W   |
| 3702 | 4822 051 10223 | 22k 2% 0,25W  |
| 3704 | 4822 051 10102 | 1k 2% 0,25W   |
| 3706 | 4822 052 10109 | 10Ω 5% 0,33W  |
| 3708 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3710 | 4822 051 20183 | 18k 5% 0,1W   |
| 3712 | 4822 116 52203 | 91Ω 5% 0,5W   |
| 3713 | 4822 116 52203 | 91Ω 5% 0,5W   |
| 3714 | 4822 051 10828 | 802 5% 0,25W  |
| 3720 | 4822 052 10109 | 10Ω 5% 0,33W  |
| 3722 | 4822 116 52263 | 2k7 5% 0,5W   |
| 3724 | 4822 051 10223 | 22k 2% 0,25W  |
| 3726 | 4822 051 10102 | 1k 2% 0,25W   |
| 3728 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3730 | 4822 051 20183 | 18k 5% 0,1W   |
| 3732 | 4822 116 52203 | 91Ω 5% 0,5W   |
| 3733 | 4822 116 52203 | 91Ω 5% 0,5W   |
| 3734 | 4822 051 10828 | 802 5% 0,25W  |
| 3998 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3998 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3998 | 4822 051 10221 | 220Ω 2% 0,25W |
| 3998 | 4822 051 10332 | 3k3 2% 0,25W  |
| 3998 | 4822 051 10393 | 39k 2% 0,25W  |
| 3998 | 4822 051 10473 | 47k 2% 0,25W  |
| 3998 | 4822 051 10563 | 56k 2% 0,25W  |
| 3998 | 4822 051 10333 | 33k 2% 0,25W  |

## Jumpers

|      |                |             |
|------|----------------|-------------|
| 4066 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4105 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4106 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4107 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4108 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4109 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4110 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4111 | 4822 051 10008 | 0Ω 5% 0,25W |

## Jumpers

|      |                |             |
|------|----------------|-------------|
| 4112 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4114 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4115 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4120 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4127 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4130 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4148 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4161 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4164 | 4822 051 20008 | 0Ω 5% 0,1W  |
| 4164 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4166 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4170 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4171 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4184 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4200 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4201 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4203 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4205 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4210 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4220 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4234 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4237 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4241 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4246 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4255 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4280 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4300 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4302 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4319 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4320 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4321 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4330 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4331 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4346 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4360 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4361 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4376 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4377 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4386 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4420 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4440 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4452 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4453 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4454 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4460 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4498 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4600 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4610 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4672 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4673 | 4822 051 10008 | 0Ω 5% 0,25W |



|      |                |            |
|------|----------------|------------|
| 5100 | 4822 157 53906 | 47μH 10%   |
| 5115 | 4822 152 20677 | 10μH 10%   |
| 5270 | 4822 157 52983 | 22μH 10%   |
| 5303 | 4822 157 63065 | 0,68μH 20% |
| 5304 | 4822 157 63065 | 0,68μH 20% |
| 5305 | 4822 157 62823 | 26μH 6%    |
| 5310 | 4822 157 63245 | 82μH 10%   |
| 5345 | 4822 157 62822 | 4,5μH 6%   |
| 5346 | 4822 157 62823 | 26μH 6%    |
| 5370 | 4822 157 62824 | 7,5μH 6%   |
| 5403 | 4822 157 63065 | 0,68μH 20% |
| 5403 | 4822 157 53302 | 1μH 20%    |
| 5404 | 4822 157 63065 | 0,68μH 20% |
| 5404 | 4822 157 53302 | 1μH 20%    |
| 5454 | 4822 157 63065 | 0,68μH 20% |

5455  
54566117  
6120  
6121  
6163  
61656166  
6168  
6172  
6173  
6178  
6205  
6206  
6207  
6256  
62576280  
62816342  
6343

6386

6387  
64506465  
6478  
64796480  
66106660  
66616662  
66636664  
66657119  
71207121  
73657130  
71377175  
71767177  
71787182  
71837186  
71887193  
71937216  
72197243  
72447258  
72607261  
72657268  
7270

Small signal panel **C D F H**



|      |                |            |
|------|----------------|------------|
| 5455 | 4822 157 63065 | 0,68μH 20% |
| 5456 | 4822 157 63065 | 0,68μH 20% |



|      |                |          |
|------|----------------|----------|
| 6117 | 4822 130 80906 | LLZ-F7V5 |
| 6120 | 4822 130 80446 | LL4148   |
| 6121 | 4822 130 80446 | LL4148   |
| 6163 | 4822 130 81226 | LLZ-F33  |
| 6165 | 4822 130 80446 | BAS32L   |
| 6166 | 4822 130 80446 | BAS32L   |
| 6168 | 4822 130 80446 | LL4148   |
| 6172 | 4822 130 80906 | LLZ-C7V5 |
| 6173 | 4822 130 80446 | LL4148   |
| 6178 | 4822 130 81222 | LLZ-C15  |
| 6205 | 4822 130 80446 | BAS32L   |
| 6206 | 4822 130 80446 | BAS32L   |
| 6207 | 4822 130 80446 | BAS32L   |
| 6256 | 4822 130 80446 | BAS32L   |
| 6257 | 4822 130 80446 | BAS32L   |
| 6280 | 4822 130 80446 | LL4148   |
| 6281 | 4822 130 80446 | LL4148   |
| 6342 | 4822 130 80888 | BA682    |
| 6343 | 4822 130 80888 | BA682    |
| 6386 | 4822 130 80446 | LL4148   |
| 6387 | 4822 130 80954 | LLZ-C5V6 |
| 6450 | 4822 130 81512 | LLZ-C6V2 |
| 6465 | 4822 130 80446 | LL4148   |
| 6478 | 4822 130 82345 | LLZ-C22  |
| 6479 | 4822 130 80877 | BAV103   |
| 6480 | 4822 130 82348 | LLZ-F9V1 |
| 6610 | 4822 130 30621 | 1N4148   |
| 6660 | 4822 130 80446 | LL4148   |
| 6661 | 4822 130 81223 | LLZ-C2V4 |
| 6662 | 4822 130 80446 | LL4148   |
| 6663 | 4822 130 81223 | LLZ-C2V4 |
| 6664 | 4822 130 80446 | LL4148   |
| 6665 | 4822 130 80446 | LL4148   |



|      |                |               |
|------|----------------|---------------|
| 7119 | 5322 130 41982 | BC848B        |
| 7120 | 5322 130 41982 | BC848B        |
| 7121 | 4822 130 42513 | BC858C        |
| 7365 | 4822 209 30837 | TDA4650/V4/S1 |
| 7130 | 5322 130 42136 | BC848C        |
| 7137 | 4822 209 71521 | X2404         |
| 7175 | 5322 209 10883 | PCF8574P      |
| 7176 | 4822 130 42513 | BC858C        |
| 7177 | 4822 130 42513 | BC858C        |
| 7178 | 5322 130 41982 | BC848B        |
| 7182 | 5322 130 44743 | BSR12         |
| 7183 | 5322 130 41982 | BC848B        |
| 7186 | 4822 209 73852 | PMBT2369      |
| 7188 | 4822 130 60511 | BC847B        |
| 7193 | 4822 209 83163 | LM833N        |
| 7193 | 4822 209 61115 | LF353N        |
| 7216 | 4822 130 42615 | BC817-40      |
| 7219 | 4822 209 63292 | TEA6414       |
| 7243 | 5322 130 41983 | BC858B        |
| 7244 | 5322 130 41982 | BC848B        |
| 7258 | 5322 209 10421 | HEF4094BP     |
| 7260 | 4822 130 42615 | BC817-40      |
| 7261 | 5322 130 42136 | BC848C        |
| 7265 | 5322 130 41982 | BC848B        |
| 7268 | 4822 130 42615 | BC817-40      |
| 7270 | 5322 130 41982 | BC848B        |



|      |                |               |
|------|----------------|---------------|
| 7273 | 4822 130 42615 | BC817-40      |
| 7305 | 5322 130 41983 | BC858B        |
| 7311 | 5322 130 41982 | BC848B        |
| 7312 | 5322 130 42136 | BC848C        |
| 7313 | 4822 130 42513 | BC858C        |
| 7314 | 5322 130 42136 | BC848C        |
| 7315 | 5322 130 42136 | BC848C        |
| 7324 | 4822 209 63901 | TDA4568/V2    |
| 7326 | 5322 130 42136 | BC848C        |
| 7338 | 5322 130 41982 | BC848B        |
| 7350 | 5322 130 41982 | BC848B        |
| 7360 | 4822 130 42615 | BC817-40      |
| 7364 | 4822 209 30389 | TDA4510/V8    |
| 7365 | 4822 209 30837 | TDA4650/V4/S1 |
| 7366 | 4822 209 63108 | TDA4660/V2    |
| 7390 | 4822 130 42513 | BC858C        |
| 7395 | 4822 209 30394 | TDA8443B/C1   |
| 7410 | 4822 209 73852 | PMBT2369      |
| 7430 | 4822 209 63733 | TDA4680/V5    |
| 7450 | 5322 130 42136 | BC848C        |
| 7450 | 5322 130 42755 | BC847C        |
| 7451 | 5322 130 42136 | BC848C        |
| 7451 | 5322 130 42755 | BC847C        |
| 7471 | 5322 130 42136 | BC848C        |
| 7480 | 5322 130 44921 | BD943         |
| 7492 | 5322 130 42136 | BC848C        |
| 7600 | 4822 209 63967 | TDA8417/V2    |
| 7620 | 4822 209 10263 | 4052B         |
| 7622 | 4822 209 10263 | 4052B         |
| 7630 | 4822 209 83163 | LM833N        |
| 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        |

High end-box **L M**

## Connectors

|                |                 |
|----------------|-----------------|
| 4822 267 70257 | IC socket 48P   |
| 4822 255 40901 | IC socket 40P   |
| 4822 267 60252 | IC socket 24P   |
| 4822 267 50885 | IC socket 16P   |
| 4822 265 40472 | 10p gold plated |

## Various

|      |                |                  |
|------|----------------|------------------|
| 1100 | 4822 242 72572 | crystal 12MHz    |
| 1200 | 4822 242 71417 | cryst. 13,875MHz |



|      |                |                 |
|------|----------------|-----------------|
| 2100 | 4822 122 32999 | 2,2nF 5% 63V    |
| 2101 | 4822 122 32999 | 2,2nF 5% 63V    |
| 2102 | 4822 122 31825 | 27pF 10% 50V    |
| 2103 | 4822 122 31825 | 27pF 10% 50V    |
| 2104 | 4822 124 40435 | 10µF 20% 50V    |
| 2105 | 4822 122 33496 | 100nF 10% 63V   |
| 2106 | 4822 122 33496 | 2,7nF 10% 63V   |
| 2107 | 4822 124 41715 | 220µF 20% 6,3V  |
| 2108 | 4822 124 41506 | 47µF 20% 16V    |
| 2109 | 4822 122 31965 | 220pF 5% 63V    |
| 2110 | 4822 122 31965 | 220pF 5% 63V    |
| 2111 | 5322 122 31842 | 330pF 5% 63V    |
| 2112 | 4822 122 33496 | 100nF 10% 63V   |
| 2113 | 5322 122 32163 | 5,6pF 5% 100V   |
| 2114 | 4822 122 33496 | 100nF 10% 63V   |
| 2115 | 4822 122 31965 | 220pF 5% 63V    |
| 2116 | 4822 122 31965 | 220pF 5% 63V    |
| 2117 | 5322 122 31842 | 330pF 5% 63V    |
| 2118 | 4822 122 31981 | 33nF ±0,5pF 50V |
| 2119 | 4822 126 11492 | 220nF 10% 50V   |
| 2120 | 4822 122 31797 | 22nF 10% 63V    |
| 2121 | 4822 122 31797 | 22nF 10% 63V    |
| 2123 | 4822 122 33496 | 100nF 10% 63V   |
| 2124 | 4822 122 33496 | 100nF 10% 63V   |
| 2125 | 4822 122 31971 | 10pF 10% 50V    |
| 2126 | 4822 122 33496 | 100nF 10% 63V   |
| 2127 | 4822 122 33496 | 100nF 10% 63V   |
| 2128 | 4822 122 33496 | 100nF 10% 63V   |
| 2130 | 4822 122 31765 | 100pF 5% 50V    |
| 2131 | 4822 122 31765 | 100pF 5% 50V    |
| 2133 | 4822 122 31765 | 100pF 5% 50V    |
| 2134 | 4822 122 31746 | 1000pF 5% 50V   |
| 2135 | 4822 122 31772 | 47pF 5% 50V     |
| 2136 | 4822 122 31746 | 1000pF 5% 50V   |
| 2137 | 4822 122 32504 | 15pF 5% 50V     |
| 2138 | 4822 122 31971 | 10pF 10% 50V    |
| 2139 | 4822 122 31772 | 47pF 5% 50V     |
| 2140 | 4822 122 31772 | 47pF 5% 50V     |
| 2141 | 4822 122 31772 | 47pF 5% 50V     |
| 2142 | 4822 122 31772 | 47pF 5% 50V     |
| 2143 | 4822 122 31772 | 47pF 5% 50V     |
| 2144 | 4822 122 31772 | 47pF 5% 50V     |
| 2146 | 4822 122 31746 | 1000pF 5% 50V   |
| 2147 | 4822 122 32507 | 6,8pF 5% 50V    |
| 2148 | 4822 122 31965 | 220pF 5% 63V    |
| 2149 | 4822 122 31965 | 220pF 5% 63V    |
| 2150 | 5322 121 42661 | 330nF 5% 63V    |
| 2151 | 4822 122 31971 | 10pF 10% 50V    |
| 2152 | 4822 122 31774 | 56pF 5% 50V     |
| 2153 | 4822 126 11492 | 220nF 10% 50V   |
| 2154 | 4822 122 33496 | 100nF 10% 63V   |
| 2155 | 4822 122 31972 | 39pF 5% 50V     |
| 2156 | 4822 122 31808 | 150pF 10% 50V   |
| 2157 | 4822 122 31808 | 150pF 10% 50V   |



|      |                |                   |
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| 2158 | 4822 122 33496 | 100nF 10% 63V     |
| 2159 | 4822 122 32444 | 33pF 5% 50V       |
| 2160 | 4822 122 31808 | 150pF 10% 50V     |
| 2161 | 4822 122 31808 | 150pF 10% 50V     |
| 2162 | 4822 122 33496 | 100nF 10% 63V     |
| 2163 | 4822 122 33496 | 100nF 10% 63V     |
| 2164 | 4822 122 33496 | 100nF 10% 63V     |
| 2165 | 4822 122 31981 | 33nF + -0,5pF 50V |
| 2166 | 4822 122 31772 | 47pF 5% 50V       |
| 2167 | 4822 122 31772 | 47pF 5% 50V       |
| 2168 | 4822 122 31772 | 47pF 5% 50V       |
| 2169 | 4822 124 41643 | 100µF 20% 16V     |
| 2170 | 4822 122 33496 | 100nF 10% 63V     |
| 2172 | 4822 122 33496 | 100nF 10% 63V     |
| 2173 | 4822 122 33496 | 100nF 10% 63V     |
| 2174 | 4822 122 33496 | 100nF 10% 63V     |
| 2175 | 4822 122 33496 | 100nF 10% 63V     |
| 2176 | 4822 122 33496 | 100nF 10% 63V     |
| 2177 | 4822 122 33496 | 100nF 10% 63V     |
| 2178 | 4822 122 33496 | 100nF 10% 63V     |
| 2179 | 4822 122 31768 | 180pF 5% 50V      |
| 2180 | 4822 122 31768 | 180pF 5% 50V      |
| 2181 | 4822 122 33496 | 100nF 10% 63V     |
| 2182 | 4822 122 33496 | 100nF 10% 63V     |
| 2183 | 4822 122 33496 | 100nF 10% 63V     |
| 2184 | 4822 122 31772 | 47pF 5% 50V       |
| 2185 | 4822 122 31772 | 47pF 5% 50V       |
| 2186 | 4822 122 32082 | 4,7pF 5% 50V      |
| 2187 | 4822 124 41715 | 220µF 20% 6,3V    |
| 2188 | 4822 122 32999 | 2,2nF 5% 63V      |
| 2198 | 4822 122 31971 | 10pF 10% 50V      |
| 2199 | 4822 122 31772 | 47pF 5% 50V       |
| 2200 | 4822 124 41643 | 100µF 20% 16V     |
| 2201 | 5322 122 31842 | 330pF 5% 63V      |
| 2202 | 4822 124 41576 | 2,2µF 20% 50V     |
| 2203 | 4822 122 31825 | 27pF 10% 50V      |
| 2204 | 4822 122 32442 | 10nF 50V          |
| 2205 | 4822 122 32442 | 10nF 50V          |
| 2206 | 4822 122 32504 | 15pF 5% 50V       |
| 2207 | 4822 122 31765 | 100pF 5% 50V      |
| 2208 | 4822 122 32142 | 270pF 5% 63V      |
| 2209 | 4822 122 31797 | 22nF 10% 63V      |
| 2210 | 4822 122 31727 | 470pF 5% 63V      |
| 2211 | 5322 122 31647 | 1nF 10% 63V       |
| 2212 | 4822 122 32504 | 15pF 5% 50V       |
| 2215 | 4822 124 41576 | 2,2µF 20% 50V     |
| 2216 | 4822 122 33496 | 100nF 10% 63V     |
| 2217 | 4822 124 41576 | 2,2µF 20% 50V     |
| 2218 | 4822 124 41596 | 22µF 20% 50V      |
| 2219 | 4822 122 33496 | 100nF 10% 63V     |
| 2220 | 4822 124 41577 | 4,7µF 20% 50V     |
| 2221 | 4822 122 33496 | 100nF 10% 63V     |
| 2222 | 4822 122 33496 | 100nF 10% 63V     |
| 2223 | 4822 124 41643 | 100µF 20% 16V     |
| 2224 | 4822 121 42937 | 2,7nF 1% 250V     |
| 2225 | 4822 122 31765 | 100pF 5% 50V      |
| 2227 | 4822 124 40435 | 10µF 20% 50V      |
| 2228 | 4822 122 32142 | 270pF 5% 63V      |
| 2229 | 4822 122 33496 | 100nF 10% 63V     |
| 2230 | 4822 122 32142 | 270pF 5% 63V      |
| 2233 | 4822 122 31765 | 100pF 5% 50V      |
| 2235 | 4822 122 33498 | 2,7nF 10% 63V     |
| 2236 | 4822 122 32891 | 68nF 10% 63V      |
| 2237 | 4822 122 33496 | 100nF 10% 63V     |
| 2250 | 4822 122 33496 | 100nF 10% 63V     |
| 2251 | 4822 124 41554 | 220µF 20% 10V     |
| 2252 | 4822 122 33496 | 100nF 10% 63V     |



|      |                |                |
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| 2253 | 4822 121 51252 | 470nF 5% 63V   |
| 2254 | 4822 121 51252 | 470nF 5% 63V   |
| 2255 | 4822 122 33496 | 100nF 10% 63V  |
| 2256 | 4822 122 31965 | 220pF 5% 63V   |
| 2257 | 4822 122 31965 | 220pF 5% 63V   |
| 2258 | 4822 122 31769 | 18pF 5% 50V    |
| 2259 | 4822 122 31774 | 56pF 5% 50V    |
| 2260 | 4822 122 31774 | 56pF 5% 50V    |
| 2261 | 4822 122 33496 | 100nF 10% 63V  |
| 2262 | 4822 124 41643 | 100µF 20% 16V  |
| 2265 | 4822 124 41643 | 100µF 20% 16V  |
| 2266 | 4822 126 11725 | 1µF 20% 50V    |
| 2268 | 4822 124 41997 | 470µF 10V      |
| 2269 | 4822 122 33496 | 100nF 10% 63V  |
| 2270 | 4822 122 33496 | 100nF 10% 63V  |
| 2271 | 4822 122 33496 | 100nF 10% 63V  |
| 2272 | 4822 122 33496 | 100nF 10% 63V  |
| 2273 | 4822 124 40731 | 330µF 20% 6,3V |
| 2274 | 4822 124 41506 | 47µF 20% 16V   |
| 2275 | 4822 122 33496 | 100nF 10% 63V  |
| 2276 | 4822 122 33496 | 100nF 10% 63V  |
| 2277 | 4822 124 41506 | 47µF 20% 16V   |
| 2286 | 4822 122 31765 | 100pF 5% 50V   |
| 2287 | 4822 122 31765 | 100pF 5% 50V   |
| 2289 | 5322 122 32269 | 6,8pF 5% 50V   |
| 2291 | 5322 122 32269 | 6,8pF 5% 50V   |
| 2292 | 4822 124 41643 | 100µF 20% 16V  |
| 2293 | 5322 122 32269 | 6,8pF 5% 50V   |
| 2294 | 4822 122 31769 | 18pF 5% 50V    |
| 2295 | 5322 122 32269 | 6,8pF 5% 50V   |
| 2296 | 4822 122 31769 | 18pF 5% 50V    |
| 2297 | 5322 122 32269 | 6,8pF 5% 50V   |
| 2298 | 4822 122 31769 | 18pF 5% 50V    |
| 2299 | 5322 122 32269 | 6,8pF 5% 50V   |
| 2301 | 4822 122 33496 | 100nF 10% 63V  |
| 2302 | 4822 122 33496 | 100nF 10% 63V  |
| 2303 | 4822 122 33496 | 100nF 10% 63V  |
| 2304 | 4822 122 32442 | 10nF 50V       |
| 2305 | 4822 122 32442 | 10nF 50V       |
| 2306 | 4822 122 32442 | 10nF 50V       |
| 2307 | 4822 122 33496 | 100nF 10% 63V  |
| 2308 | 4822 122 33496 | 100nF 10% 63V  |
| 2309 | 4822 122 33496 | 100nF 10% 63V  |
| 2310 | 4822 124 41997 | 470µF 20% 10V  |
| 2311 | 4822 124 41506 | 47µF 20% 16V   |
| 2312 | 4822 122 31769 | 18pF 5% 50V    |



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| 3000 | 4822 116 52186 | 22Ω 5% 0,5W   |
| 3000 | 4822 116 52188 | 27Ω 5% 0,5W   |
| 3001 | 4822 051 10102 | 1k 2% 0,25W   |
| 3001 | 4822 051 10122 | 1k2 2% 0,25W  |
| 3100 | 4822 051 20222 | 2k2 5% 0,1W   |
| 3101 | 4822 051 20222 | 2k2 5% 0,1W   |
| 3102 | 4822 051 10473 | 47k 2% 0,25W  |
| 3103 | 4822 051 10473 | 47k 2% 0,25W  |
| 3104 | 4822 051 10181 | 180Ω 2% 0,25W |
| 3106 | 4822 051 10752 | 7k5 2% 0,25W  |
| 3107 | 4822 051 10562 | 5k6 2% 0,25W  |
| 3108 | 4822 051 10331 | 330Ω 2% 0,25W |
| 3109 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3110 | 4822 051 10102 | 1k 2% 0,25W   |
| 3111 | 4822 051 10473 | 47k 2% 0,25W  |
| 3112 | 4822 051 10103 | 10k 2% 0,25W  |
| 3113 | 4822 051 10109 | 10k 2% 0,25W  |
| 3114 | 4822 051 10104 | 100k 2% 0,25W |
| 3119 | 4822 051 10152 | 1k5 2% 0,25W  |

## High



|                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |              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|                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |              |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-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| 3120           | 3121           | 3122           | 3123           | 3124           | 3125           | 3126           | 3127           | 3131           | 3132           | 3133           | 3134           | 3135           | 3136           | 3137           | 3138           | 3139           | 3140           | 3141           | 3142           | 3143           | 3144           | 3145           | 3146           | 3147           | 3148           | 3151           | 3152           | 3153           | 3155           | 3156           | 3157           | 3158           | 3159           | 3160           | 3161           | 3162           | 3163           | 3164           | 3165           | 3166           | 3168           | 3169           | 3170           | 3171           | 3172           | 3173           | 3174           | 3175           | 3176           | 3198           | 3200           | 3202           | 3203           | 3204           | 3205           | 3206           | 3207           | 3208           | 3209           | 3210           | 3211           | 3212           | 3213           | 3214           | 3215           | 3216           | 3217           | 3218           |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |            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|                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |                |              |
| 4822 121 51252 | 4822 121 51252 | 4822 122 33496 | 4822 122 31965 | 4822 122 31965 | 4822 122 31769 | 4822 122 31774 | 4822 122 31774 | 4822 124 41643 | 4822 124 41997 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 124 41506 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 33496 | 4822 122 334 |

High end-box **L** **M**

|                                                                                   |        |                |                |              |
|-----------------------------------------------------------------------------------|--------|----------------|----------------|--------------|
|  | 5% 63V | 3120           | 4822 051 10332 | 3k3 2% 0,25W |
| 5% 63V                                                                            | 3121   | 4822 051 10472 | 4k7 2% 0,25W   |              |
| 10% 63V                                                                           | 3122   | 4822 051 10473 | 47k 2% 0,25W   |              |
| 5% 63V                                                                            | 3123   | 4822 051 10122 | 1k2 2% 0,25W   |              |
| 5% 63V                                                                            | 3124   | 4822 051 10101 | 100Ω 2% 0,25W  |              |
| % 50V                                                                             | 3126   | 4822 051 10272 | 2k7 2% 0,25W   |              |
| % 50V                                                                             | 3127   | 4822 051 10221 | 220Ω 2% 0,25W  |              |
| % 50V                                                                             | 3131   | 4822 051 10109 | 10Ω 2% 0,25W   |              |
| 10% 63V                                                                           | 3132   | 4822 051 10152 | 1k5 2% 0,25W   |              |
| 20% 16V                                                                           | 3133   | 4822 051 10101 | 100Ω 2% 0,25W  |              |
| 20% 16V                                                                           | 3134   | 4822 051 10221 | 220Ω 2% 0,25W  |              |
| % 50V                                                                             | 3135   | 4822 051 10272 | 2k7 2% 0,25W   |              |
| 10V                                                                               | 3136   | 4822 116 81193 | 15Ω 5% 0,3W    |              |
| 10% 63V                                                                           | 3137   | 4822 051 10223 | 22k 2% 0,25W   |              |
| 10% 63V                                                                           | 3138   | 4822 051 10124 | 120k 2% 0,25W  |              |
| 10% 63V                                                                           | 3139   | 4822 051 10101 | 100Ω 2% 0,25W  |              |
| 10% 63V                                                                           | 3140   | 4822 051 10224 | 220k 2% 0,25W  |              |
| 20% 6,3V                                                                          | 3141   | 4822 051 10223 | 22k 2% 0,25W   |              |
| 1% 16V                                                                            | 3142   | 4822 051 10104 | 100k 2% 0,25W  |              |
| 0% 63V                                                                            | 3143   | 4822 051 10104 | 100k 2% 0,25W  |              |
| 0% 63V                                                                            | 3144   | 4822 051 10272 | 2k7 2% 0,25W   |              |
| 0% 16V                                                                            | 3145   | 4822 051 10759 | 75Ω 2% 0,25W   |              |
| 0% 50V                                                                            | 3146   | 4822 051 20222 | 2k2 5% 0,1W    |              |
| 0% 50V                                                                            | 3147   | 4822 051 10279 | 27Ω 2% 0,25W   |              |
| 0% 50V                                                                            | 3148   | 4822 051 10479 | 47Ω 2% 0,25W   |              |
| % 50V                                                                             | 3151   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0% 16V                                                                            | 3152   | 4822 051 10621 | 620Ω 2% 0,25W  |              |
| % 50V                                                                             | 3153   | 4822 051 10122 | 1k2 2% 0,25W   |              |
| 6 50V                                                                             | 3155   | 4822 051 10271 | 270Ω 2% 0,25W  |              |
| % 50V                                                                             | 3156   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 6 50V                                                                             | 3157   | 4822 051 10151 | 150Ω 2% 0,25W  |              |
| % 50V                                                                             | 3158   | 4822 051 10331 | 330Ω 2% 0,25W  |              |
| 6 50V                                                                             | 3159   | 4822 051 20222 | 2k2 5% 0,1W    |              |
| % 50V                                                                             | 3160   | 4822 051 10241 | 240Ω 2% 0,25W  |              |
| 0% 63V                                                                            | 3161   | 4822 051 10221 | 220Ω 2% 0,25W  |              |
| 0% 63V                                                                            | 3162   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0% 63V                                                                            | 3163   | 4822 051 10332 | 3k3 2% 0,25W   |              |
| IV                                                                                | 3164   | 4822 051 20222 | 2k2 5% 0,1W    |              |
| IV                                                                                | 3165   | 4822 051 10332 | 3k3 2% 0,25W   |              |
| IV                                                                                | 3166   | 4822 051 20222 | 2k2 5% 0,1W    |              |
| 0% 63V                                                                            | 3168   | 4822 051 10221 | 220Ω 2% 0,25W  |              |
| 0% 63V                                                                            | 3169   | 4822 051 10105 | 1M 5% 0,25W    |              |
| 0% 63V                                                                            | 3170   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0% 10V                                                                            | 3171   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0% 16V                                                                            | 3172   | 4822 051 51102 | 1k1 1% 0,125W  |              |
| 6 50V                                                                             | 3173   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0,5W                                                                              | 3174   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0,5W                                                                              | 3175   | 4822 051 10683 | 68k 2% 0,25W   |              |
| 0,25W                                                                             | 3176   | 4822 051 10103 | 10k 2% 0,25W   |              |
| 0,25W                                                                             | 3198   | 4822 051 10008 | 0Ω 5% 0,25W    |              |
| 0,1W                                                                              | 3200   | 4822 111 41423 | 18Ω 5% 0,3W    |              |
| 0,1W                                                                              | 3202   | 4822 051 10101 | 100Ω 2% 0,25W  |              |
| 0,25W                                                                             | 3203   | 4822 051 10101 | 100Ω 2% 0,25W  |              |
| 0,25W                                                                             | 3204   | 4822 051 10103 | 10k 2% 0,25W   |              |
| 0,25W                                                                             | 3205   | 4822 051 10102 | 1k 2% 0,25W    |              |
| 0,25W                                                                             | 3206   | 4822 051 10332 | 3k3 2% 0,25W   |              |
| % 0,25W                                                                           | 3207   | 4822 051 10104 | 100k 2% 0,25W  |              |

PIP panel **J**

## Connectors

|                |                 |
|----------------|-----------------|
| 4822 265 40503 | 5P female gold  |
| 4822 265 40472 | 10P female gold |
| 4822 265 30828 | 5P male         |
| 4822 265 30899 | 5P              |
| 4822 265 20509 | 2P grey         |
| 4822 265 20511 | 2P blue         |

## Various parts

|      |                |                  |
|------|----------------|------------------|
| 1155 | 4822 320 40051 | delay line DL711 |
| 1201 | 4822 242 70304 | crystal 8,867MHz |
| 1212 | 4822 242 70736 | crystal 7,159MHz |
| 1600 | 4822 210 50124 | UV916E/IEC       |
| 1610 | 4822 242 80275 | OFWG3962         |



|      |                |               |
|------|----------------|---------------|
| 2103 | 4822 122 32444 | 33pF 5% 50V   |
| 2105 | 4822 122 31766 | 120pF 5% 50V  |
| 2118 | 4822 122 31775 | 680pF 5% 50V  |
| 2119 | 4822 122 31808 | 150pF 10% 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 | 1000pF 5% 50V |
| 2196 | 4822 122 33105 | 56nF 10% 63V  |
| 2197 | 4822 122 31385 | 22pF 50V      |
| 2201 | 4822 122 31746 | 1000pF 5% 50V |
| 2202 | 4822 125 50045 | 20pF trim.    |
| 2211 | 4822 122 31746 | 1000pF 5% 50V |
| 2212 | 4822 125 50045 | 20pF trim.    |
| 2220 | 5322 121 42661 | 330nF 5% 63V  |
| 2222 | 4822 122 32542 | 47nF 10% 63V  |
| 2227 | 4822 122 31842 | 330pF 5% 63V  |
| 2230 | 4822 124 41578 | 6,8μF 20% 50V |
| 2232 | 4822 124 41678 | 22μF 20% 25V  |
| 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 51115 | 270nF 10% 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 |
| 2330 | 4822 122 32597 | 6,8nF 10% 63V |
| 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         |
| 2382 | 4822 122 32927 | 220nF         |
| 2384 | 4822 122 32927 | 220nF         |
| 2391 | 4822 122 32927 | 220nF         |
| 2395 | 4822 122 32927 | 220nF         |
| 2397 | 4822 122 32927 | 220nF         |



|      |                |               |
|------|----------------|---------------|
| 2399 | 4822 122 31746 | 1000pF 5% 50V |
| 2404 | 4822 122 31965 | 220pF 5% 63V  |
| 2405 | 4822 122 32862 | 10nF 80% 50V  |
| 2409 | 4822 122 31965 | 220pF 5% 63V  |
| 2410 | 4822 122 32862 | 10nF 80% 50V  |
| 2413 | 4822 122 31839 | 82pF 10% 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 42472 | 10nF 10% 50V  |
| 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 |
| 2455 | 4822 122 31972 | 39pF 5% 50V   |
| 2459 | 4822 124 41997 | 470μF 10V     |
| 2466 | 4822 122 31947 | 100nF 20% 63V |
| 2470 | 4822 124 40435 | 10μF 20% 50V  |
| 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         |



|      |                |               |
|------|----------------|---------------|
| 3100 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3103 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3104 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3105 | 4822 051 10362 | 3k6 2% 0,25W  |
| 3106 | 4822 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 | 7k 5% 0,5W    |
| 3228 | 4822 051 10472 | 4k7 2% 0,25W  |
| 3231 | 4822 051 10302 | 3k 2% 0,25W   |
| 3232 | 4822 051 10229 | 22Ω 2% 0,25W  |
| 3233 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3233 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3234 | 4822 051 10202 | 2k 2% 0,25W   |
| 3235 | 4822 051 10222 | 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   |
| 3330 | 4822 051 10752 | 7k5 2% 0,25W  |
| 3331 | 4822 051 10103 | 10k 2% 0,25W  |
| 3332 | 4822 051 10152 | 1k5 2% 0,25W  |
| 3335 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3336 | 4822 051 10432 | 4k3 2% 0,25W  |
| 3337 | 4822 116 52207 | 1k2 5% 0,5W   |
| 3338 | 4822 051 10332 | 3k3 2% 0,25W  |
| 3340 | 4822 116 52253 | 2k 5% 0,5W    |
| 3345 | 4822 052 10229 | 22Ω 5% 0,33W  |
| 3353 | 4822 052 10568 | 5Ω 5% 0,33W   |
| 3354 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3376 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3377 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3378 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3380 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3381 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3382 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3383 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3384 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3385 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3386 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3387 | 4822 051 10151 | 150Ω 2% 0,25W |
| 3388 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3404 | 4822 051 10431 | 430Ω 2% 0,25W |
| 3405 | 4822 051 10271 | 270Ω 2% 0,25W |
| 3410 | 4822 051 10391 | 390Ω 2% 0,25W |
| 3411 | 4822 051 10361 | 360Ω 2% 0,25W |
| 3412 | 4822 051 10361 | 360Ω 2% 0,25W |
| 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 10473 | 47k 2% 0,25W  |
| 3436 | 4822 051 10473 | 47k 2% 0,25W  |
| 3437 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3438 | 4822 051 10513 | 51k 2% 0,25W  |
| 3440 | 4822 116 52222 | 390Ω 5% 0,5W  |
| 3441 | 4822 051 10519 | 51Ω 2% 0,25W  |
| 3442 | 4822 051 10919 | 91Ω 2% 0,25W  |
| 3444 | 4822 116 52175 | 100Ω 5% 0,5W  |
| 3446 | 4822 116 52175 | 100Ω 5% 0,5W  |
| 3448 | 4822 051 10392 | 3k9 2% 0,25W  |
| 3450 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3450 | 4822 051 10751 | 750Ω 2% 0,25W |
| 3452 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3452 | 4822 051 10751 | 750Ω 2% 0,25W |
| 3454 | 4822 051 10681 | 680Ω 2% 0,25W |
| 3454 | 4822 051 10751 | 750Ω 2% 0,25W |
| 3460 | 4822 116 52217 | 270Ω 5% 0,5W  |
| 3461 | 4822 116 52259 | 2k4 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  |
| 3465 | 4822 051 10821 | 820Ω 2% 0,25W |
| 3471 | 4822 051 10103 | 10k 2% 0,25W  |
| 3472 | 4822 051 10224 | 220k 2% 0,25W |
| 3473 | 4822 051 10008 | 0Ω 5% 0,25W   |
| 3473 | 4822 051 10102 | 1k 2% 0,25W   |

## PIP panel



|         |  |
|---------|--|
| 3600    |  |
| 3601    |  |
| 3602    |  |
| 3603    |  |
| 3604    |  |
| 3605    |  |
| 3610    |  |
| 3611    |  |
| 3612    |  |
| 3613    |  |
| 3614    |  |
| 3615    |  |
| 3616    |  |
| 3617    |  |
| 3618    |  |
| 3619    |  |
| 3620    |  |
| 3621    |  |
| 3622    |  |
| 3624    |  |
| 3625    |  |
| 3630    |  |
| 3631    |  |
| 3632    |  |
| 3633    |  |
| 3634    |  |
| 3635    |  |
| 3636    |  |
| 3637    |  |
| 3638    |  |
| 3997    |  |
| Jumpers |  |
| 4001    |  |
| 4002    |  |
| 4003    |  |
| 4005    |  |
| 4007    |  |
| 4009    |  |
| 4011    |  |
| 4012    |  |
| 4013    |  |
| 4014    |  |
| 4015    |  |
| 4016    |  |
| 4017    |  |
| 4018    |  |
| 4019    |  |
| 4020    |  |
| 4021    |  |
| 4022    |  |
| 4024    |  |
| 4025    |  |
| 4026    |  |
| 4027    |  |
| 4028    |  |
| 4029    |  |
| 4046    |  |
| 4048    |  |
| 4049    |  |
| 4403    |  |
| 4404    |  |
| 4410    |  |
| 4415    |  |
| 4417    |  |
| 4418    |  |
| 4419    |  |

PIP panel 



|      |                |               |
|------|----------------|---------------|
| 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 | 105 5% 0,33W  |
| 3605 | 4822 051 10223 | 22k 2% 0,25W  |
| 3610 | 4822 100 11319 | 4k7 30% LIN   |
| 3611 | 4822 051 10332 | 3k3 2% 0,25W  |
| 3612 | 4822 051 10272 | 2k7 2% 0,25W  |
| 3613 | 4822 051 10103 | 10k 2% 0,25W  |
| 3614 | 4822 051 10123 | 12k 2% 0,25W  |
| 3615 | 4822 051 10822 | 8k2 2% 0,25W  |
| 3616 | 4822 116 52229 | 750Ω 5% 0,5W  |
| 3617 | 4822 051 10751 | 750Ω 2% 0,25W |
| 3618 | 4822 052 10568 | 506 5% 0,33W  |
| 3619 | 4822 051 10471 | 470Ω 2% 0,25W |
| 3620 | 4822 051 20222 | 2k2 5% 0,1W   |
| 3621 | 4822 051 10105 | 1M 5% 0,25W   |
| 3622 | 4822 051 10272 | 2k7 2% 0,25W  |
| 3624 | 4822 051 10272 | 2k7 2% 0,25W  |
| 3625 | 4822 051 10511 | 510Ω 2% 0,25W |
| 3630 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3631 | 4822 051 10101 | 100Ω 2% 0,25W |
| 3632 | 4822 051 10102 | 1k 2% 0,25W   |
| 3633 | 4822 051 10104 | 100k 2% 0,25W |
| 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 10479 | 47Ω 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 |
| 4005 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4007 | 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 |
| 4049 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4403 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4404 | 4822 051 10008 | 0Ω 5% 0,25W |
| 4410 | 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 |

Jumpers

|      |                |             |
|------|----------------|-------------|
| 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   |
| 7126 | 4822 209 30389 | TDA4510/V8   |
| 7200 | 5322 130 41982 | BC848B       |
| 7210 | 5322 130 41982 | BC848B       |
| 7233 | 5322 130 41982 | BC848B       |
| 7234 | 5322 130 41982 | BC848B       |
| 7235 | 5322 130 41982 | BC848B       |
| 7330 | 5322 130 41982 | BC848B       |
| 7335 | 5322 130 41982 | BC848B       |
| 7337 | 5322 130 41982 | BC848B       |
| 7338 | 5322 130 41982 | BC848B       |
| 7350 | 4822 130 42616 | BC818-40     |
| 7381 | 5322 130 42012 | BC858        |
| 7385 | 5322 130 42012 | BC858        |
| 7387 | 5322 130 42012 | BC858        |
| 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    |
| 7610 | 4822 209 30393 | TDA8349A/N2  |
| 7630 | 4822 209 30395 | SAA1300AQ/N6 |
| 7755 | 4822 209 72363 | TDA2579A/N8  |

Picture tube panel **E**

## Connectors

|                |               |
|----------------|---------------|
| 4822 265 20509 | 2P male grey  |
| 4822 265 40596 | 2P male       |
| 4822 267 40985 | 6P male black |
| 4822 290 40295 | 7P male grey  |

## Various parts

|                     |                     |
|---------------------|---------------------|
| 4822 492 70788      | spring fix IC       |
| 4822 255 70261      | picture tube socket |
| 1030 4822 212 23711 | PTP 25"-28"         |
| 1030 4822 212 23953 | PIP 33"             |



|      |                |                |
|------|----------------|----------------|
| 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 | 10Ω 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 |



|      |                |           |
|------|----------------|-----------|
| 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       |

NICAM sound module **K**

## Connectors

4822 265 41087 9P male

## Various parts

1001 4822 242 81128 cryst. 17.470MHz  
 1002 4822 242 72301 filter TH316BOM - 20800DAF  
 1002 4822 242 72303 filter TH316BQM  
 1003 4822 242 81126 cryst. 11.170MHz  
 1003 4822 242 81127 cryst. 13.100MHz  
 1106 4822 242 72303 filter TH316BQM  
 1600 4822 212 23907 NICAM PAL BG  
 1600 4822 212 23908 NICAM PAL I



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 31808 150pF 10% 50V  
 2009 4822 122 32442 10nF 50V  
 2010 4822 122 31808 150pF 10% 50V  
 2011 4822 122 31766 120pF 5% 50V  
 2012 4822 121 41854 150nF 5% 63V  
 2013 4822 122 31746 1000pF 5% 50V  
 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 ±0,5pF 50V  
 2022 4822 122 31759 18nF  
 2023 4822 122 31981 33nF ±0,5pF 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 1000pF 5% 50V  
 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 10103 10k 2% 0,25W  
 3099 4822 051 10101 100Ω 2% 0,25W  
 3099 4822 116 90536 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

## Y/C detector I

## Connectors

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



6258 4822 130 80905 LLZ-F5V1

## Various parts

1231 4822 242 80364 filter 4,43MHz



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 31808 150pF 10% 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 10008 0Ω 5% 0,25W  
3213 4822 051 10153 15k 2% 0,25W  
3214 4822 051 10153 15k 2% 0,25W  
3221 4822 051 10472 4k7 2% 0,25W  
3223 4822 116 52203 91Ω 5% 0,5W  
3225 4822 116 52219 330Ω 5% 0,5W  
3226 4822 116 52243 1k5 5% 0,5W  
3227 4822 051 10112 1k1 2% 0,25W  
3228 4822 051 10474 470k 2% 0,25W  
3229 4822 051 10331 330Ω 2% 0,25W  
3230 4822 051 10102 1k 2% 0,25W  
3231 4822 051 10681 680Ω 2% 0,25W  
3236 4822 051 10331 330Ω 2% 0,25W  
3250 4822 051 10151 150Ω 2% 0,25W  
3258 4822 051 10102 1k 2% 0,25W  
3272 4822 051 10471 470Ω 2% 0,25W  
3278 4822 051 10472 4k7 2% 0,25W  
3280 4822 051 10102 1k 2% 0,25W  
3282 4822 051 10103 10k 2% 0,25W  
3283 4822 051 10472 4k7 2% 0,25W  
3284 4822 051 10102 1k 2% 0,25W  
3289 4822 051 10102 1k 2% 0,25W  
3302 4822 051 10102 1k 2% 0,25W  
3307 4822 051 10474 470k 2% 0,25W  
3308 4822 051 10471 470Ω 2% 0,25W  
3309 4822 051 10008 0Ω 5% 0,25W  
3319 4822 051 10102 1k 2% 0,25W



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



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