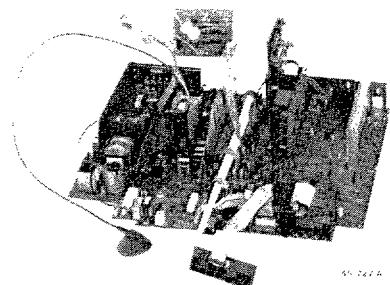


Service Service Service



51-267-A

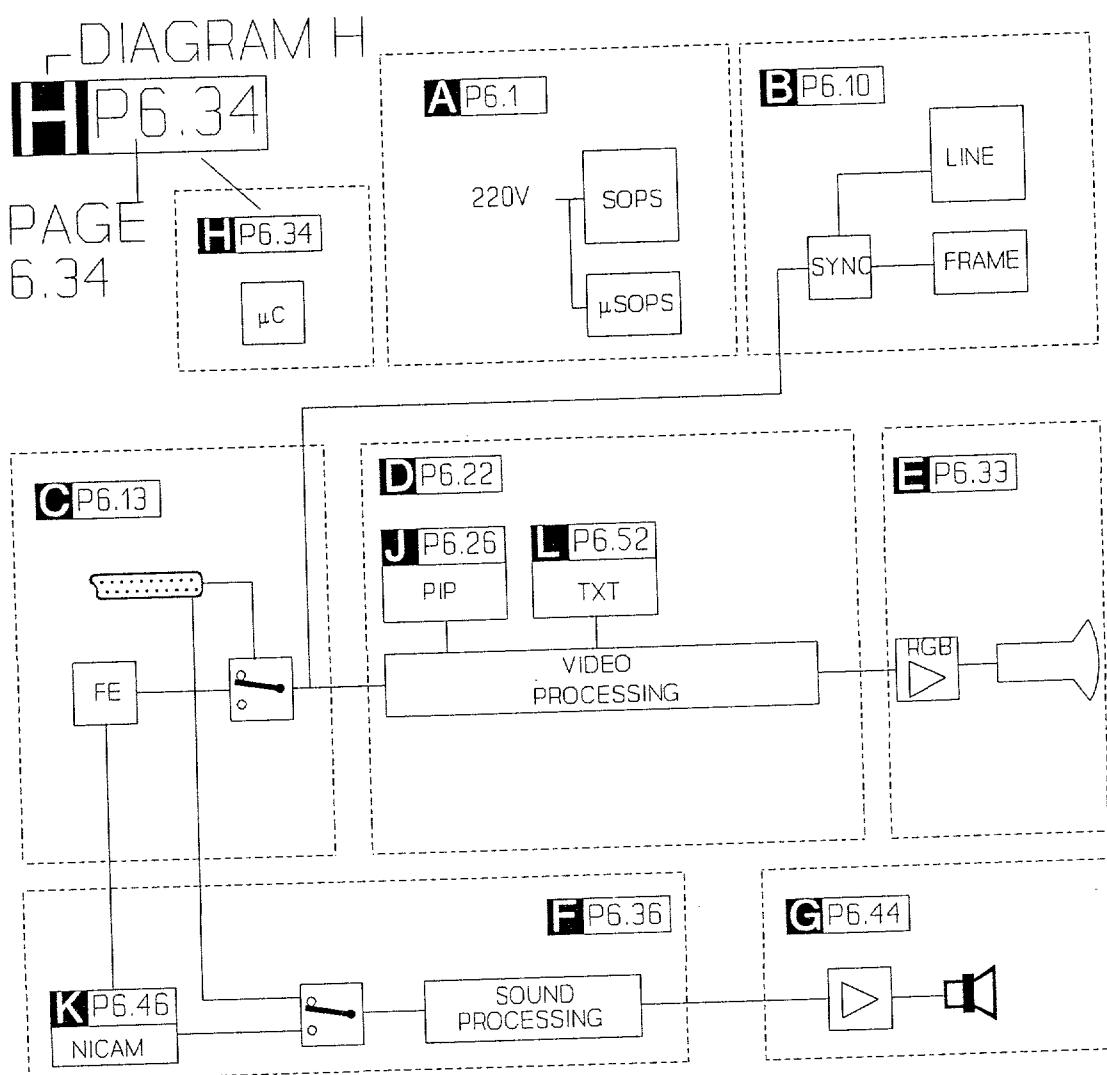
Service Manual

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Blockdiagram



Mains voltage:

: 220 - 240 V ($\pm 10\%$)

: 50 - 60 Hz ($\pm 5\%$)

: 75Ω - coax

: 30μV (VHF)/40μV (UHF)

: 180μV

: +300Hz/-300Hz

: +200Hz/-300Hz

Aerial input impedance:

Minimum aerial voltage:

Maximum aerial voltage VHF/S/UHF:

Pull-in range colour synchronization:

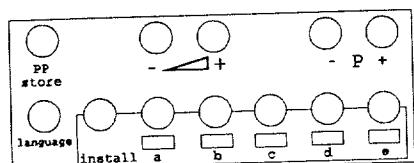
Pull-in range horizontal synchronization:

: 0-59

: 0, 00, 50-59

Programmes
VCR programmes

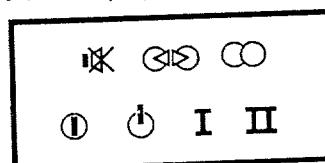
Local operation functions:



Indications:

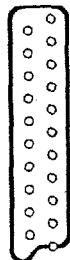
- On Screen Display (OSD)

- LED:



1. Specification of the connectors

EXT1 (AUX)



- 1 - Audio \oplus R ($0,5\text{V RMS} \leq 1\text{k}\Omega$)
- 2 - Audio \ominus R ($0,2 - 2\text{V RMS} \geq 10\text{k}\Omega$)
- 3 - Audio \oplus L ($0,5\text{V RMS} \leq 1\text{k}\Omega$)
- 4 - Audio \perp
- 5 - Blue \perp
- 6 - Audio \ominus L ($0,2 - 2\text{V RMS} \geq 10\text{k}\Omega$)
- 7 - Blue ($0,7\text{V}_{pp}/75\Omega$)
- 8 - CVBS-status 1 \ominus 0-2V: int.
9,5-12V: ext.
- 9 - Green \perp
- 10 - -
- 11 - Green ($0,7\text{V}_{pp}/75\Omega$)
- 12 - -
- 13 - Red \perp
- 14 - -
- 15 - Red ($0,7\text{V}_{pp}/75\Omega$)
- 16 - RGB-status (0-0,4V: int. 1-3V ext.
 75Ω)
- 17 - CVBS \perp
- 18 - CVBS \perp
- 19 - CVBS \oplus ($1\text{V}_{pp}/75\Omega$)
- 20 - CVBS \ominus ($1\text{V}_{pp}/75\Omega$)
- 21 - Earthscreen



EXT3 (front)

- ◎ CINCH Video \ominus $300\text{mV}_{pp}/75\Omega$
- ◎ CINCH Audio \ominus L ($0,5\text{V RMS}; \geq 10\text{k}\Omega$)
- ◎ CINCH Audio \ominus R ($0,5\text{V RMS}; \geq 10\text{k}\Omega$)



$32-2000\Omega \geq 10\text{mW}$

Audio out

- ◎ CINCH Audio \oplus L ($0,5\text{V RMS}; \leq 1\text{k}\Omega$)
- ◎ CINCH Audio \oplus R ($0,5\text{V RMS}; \leq 1\text{k}\Omega$)



front : $2 \times 12\text{W} / 8\Omega$
rear : $2 \times 3\text{W} / 8\Omega$

EXT2 (VCR)



- 1 - Audio \oplus R ($0,5\text{V RMS} \leq 1\text{k}\Omega$)
- 2 - Audio \ominus R ($0,2 - 2\text{V RMS} \geq 10\text{k}\Omega$)
- 3 - Audio \oplus L ($0,5\text{V RMS} \leq 1\text{k}\Omega$)
- 4 - Audio \perp
- 5 - -
- 6 - Audio \ominus L ($0,2 - 2\text{V RMS} \geq 10\text{k}\Omega$)
- 7 - -
- 8 - CVBS-status 2 \ominus 0-2V: int.
9,5-12V: ext.
- 9 - -
- 10 - -
- 11 - -
- 12 - -
- 13 - -
- 14 - -
- 15 - -
- 16 - -
- 17 - CVBS \perp
- 18 - CVBS \perp
- 19 - CVBS \oplus ($1\text{V}_{pp}/75\Omega$)
- 20 - CVBS \ominus ($1\text{V}_{pp}/75\Omega$)
- 21 - Earthscreen

EXT2' (SVHS)



- 1 - \perp
- 2 - \perp
- 3 - Y \ominus ($1\text{V}_{pp}; 75\Omega$)
- 4 - C \ominus ($0,3\text{V}_{pp}; 75\Omega$)

- ◎ CINCH Audio \ominus L ($0,5\text{V RMS}; \geq 10\text{k}\Omega$)
- ◎ CINCH Audio \ominus R ($0,5\text{V RMS}; \geq 10\text{k}\Omega$)

Connection facilities

2. Connection of equipment

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

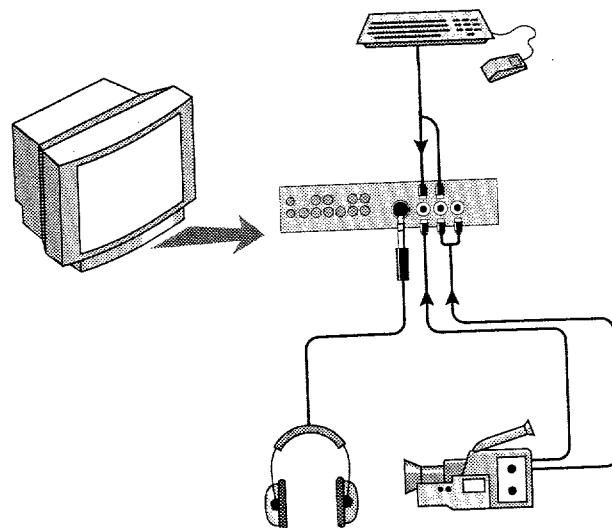
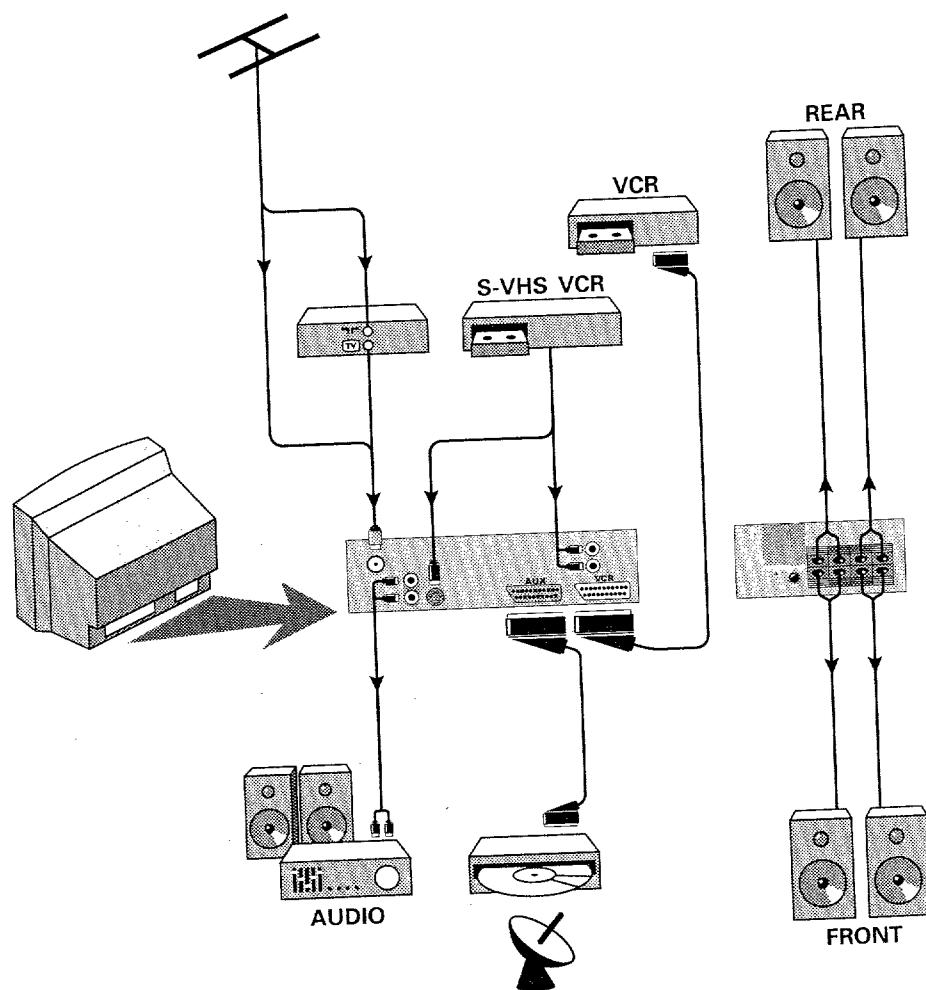


Fig. 2.1

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol 
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, the method shown in Fig. 3.1 should be used to discharge the picture tube. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (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 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 FL1.0

3.1

1. The direct voltages and oscilloscopes should be measured with regard to the tuner earth () or hot earth () as this is called.
2. The direct voltages and oscilloscopes 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 oscilloscopes and direct voltages are measured with () and without aerial signal () Voltages in the power supply section are measured both for normal operation () and in standby () These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of error searching and/or repair to the PIP module, the accessibility of the circuit and the components can be increased by using extension cards.
5 times: 4822 395 30261
10 times: 4822 395 30257

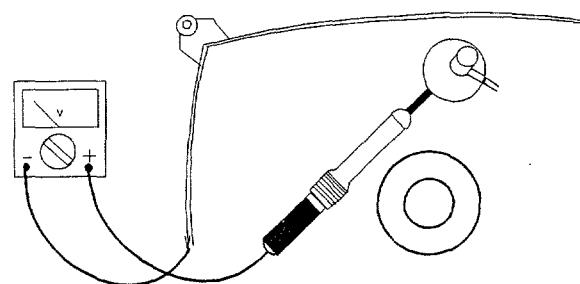


Fig 3.1

1. Removing the back plate

Remove cover A (Fig. 4.1) from the back plate.
 Remove connector B (LI36) of the subwoofer.
 Remove attachment screws C from the back plate.
 Remove the back plate with the subwoofer fitted in it. Attach the back plate by carrying out the above in the reverse order.

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. 4.2) 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.

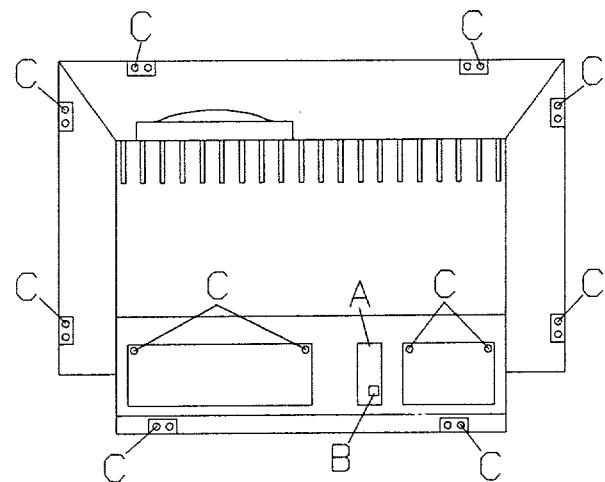


Fig 4.1

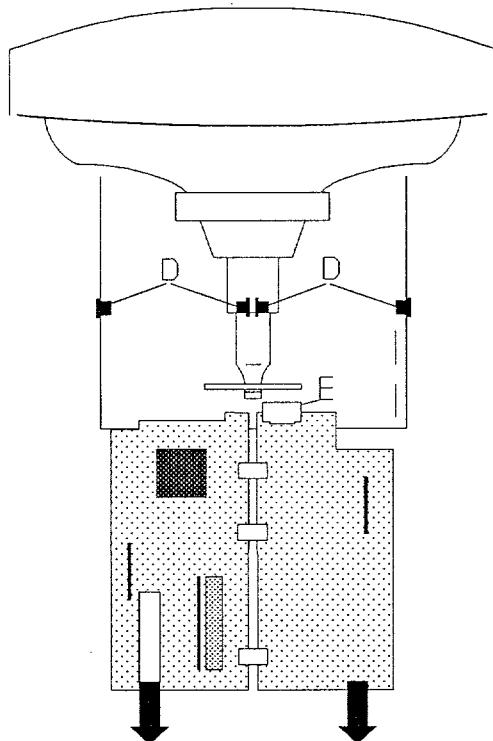


Fig 4.2

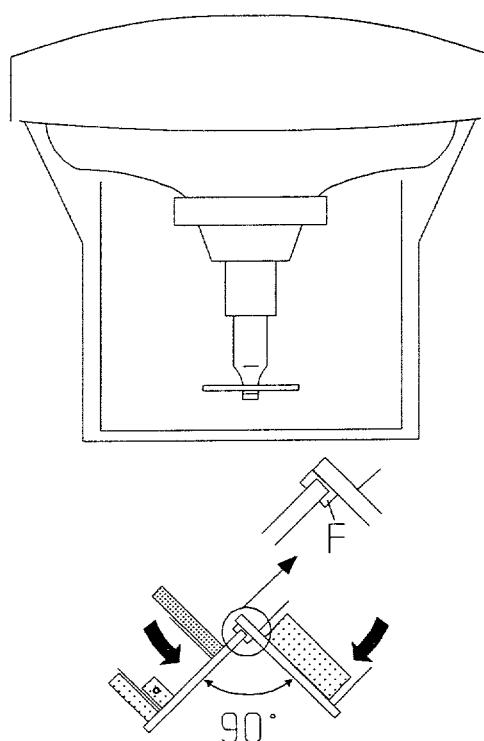


Fig 4.3

Blockdiagram

Blockschaltbild

CHASSIS FL1.0

5.1

5.2

BLOCKDIAGRAM FL1.0

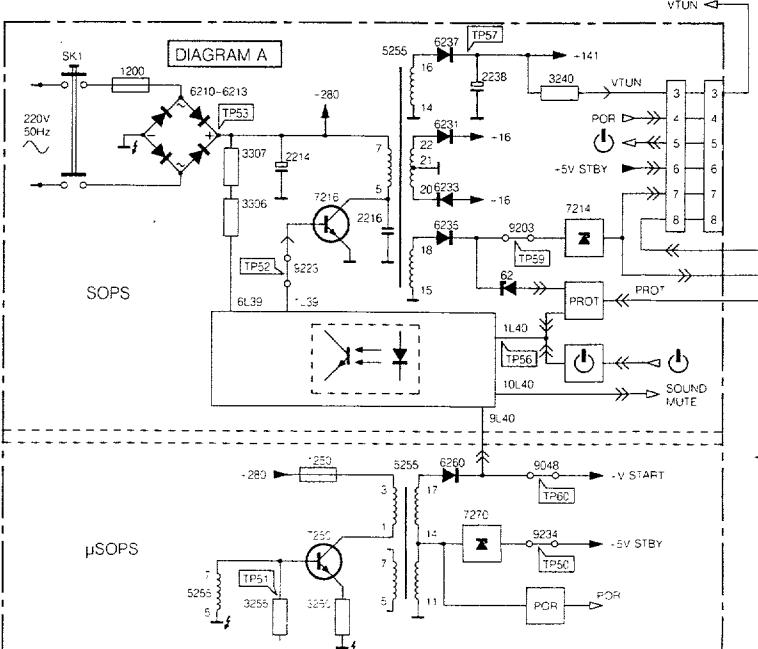
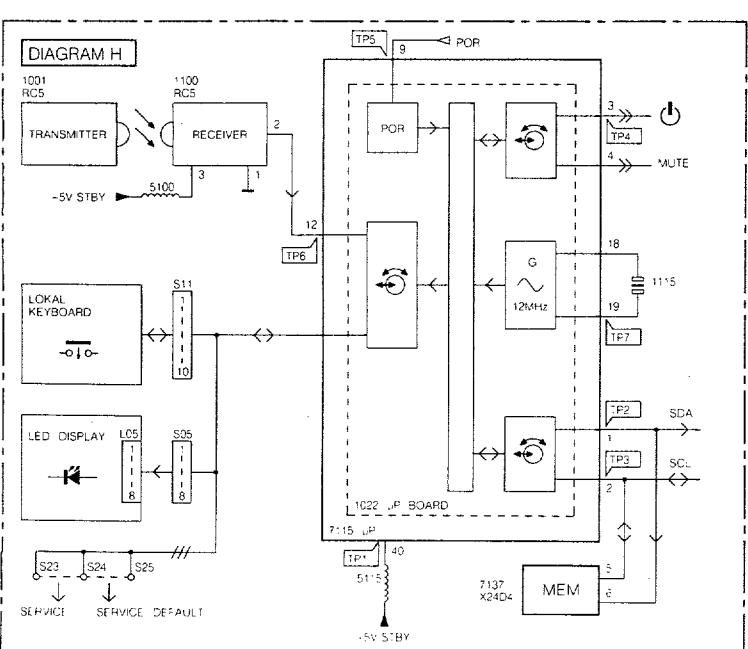
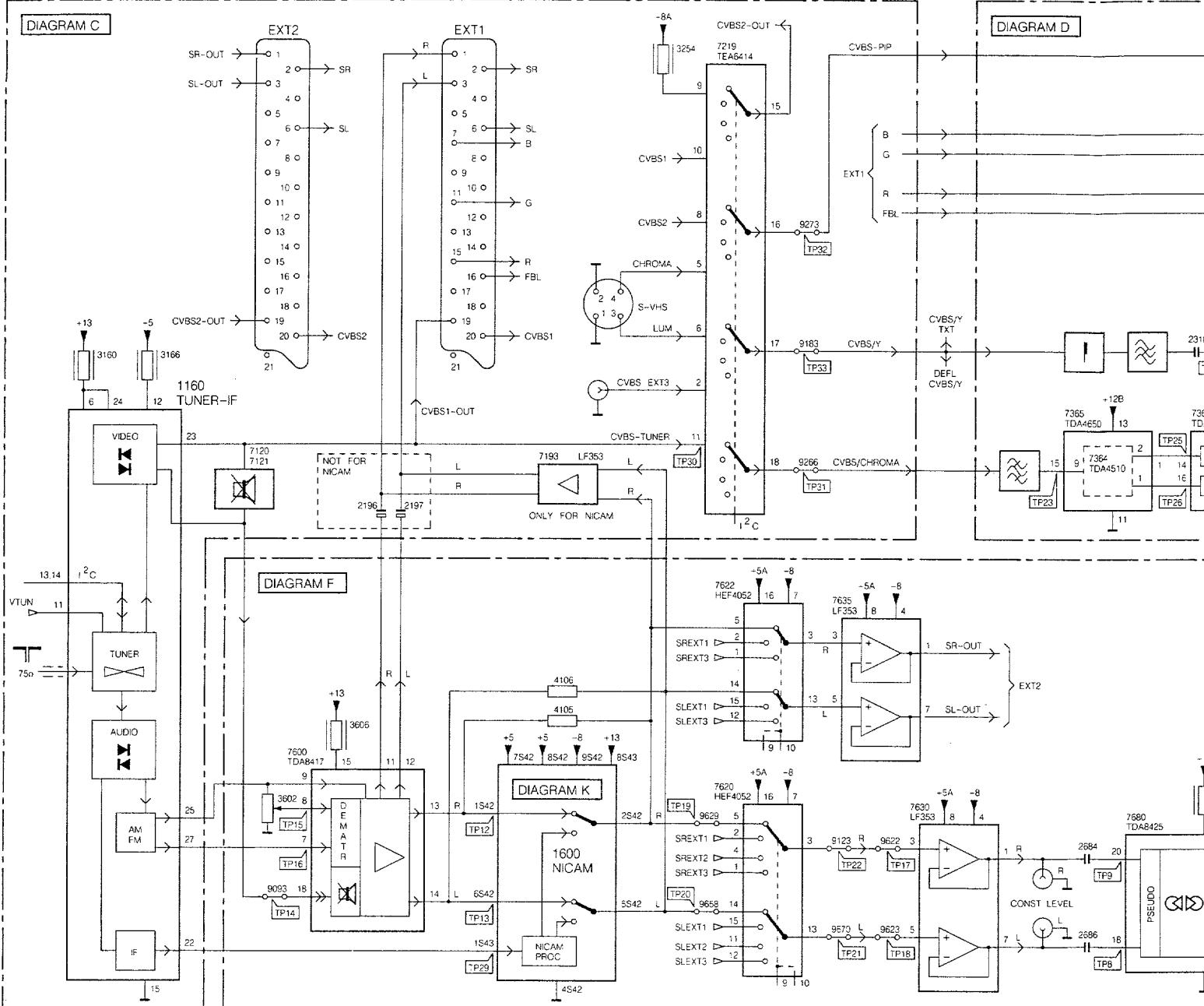
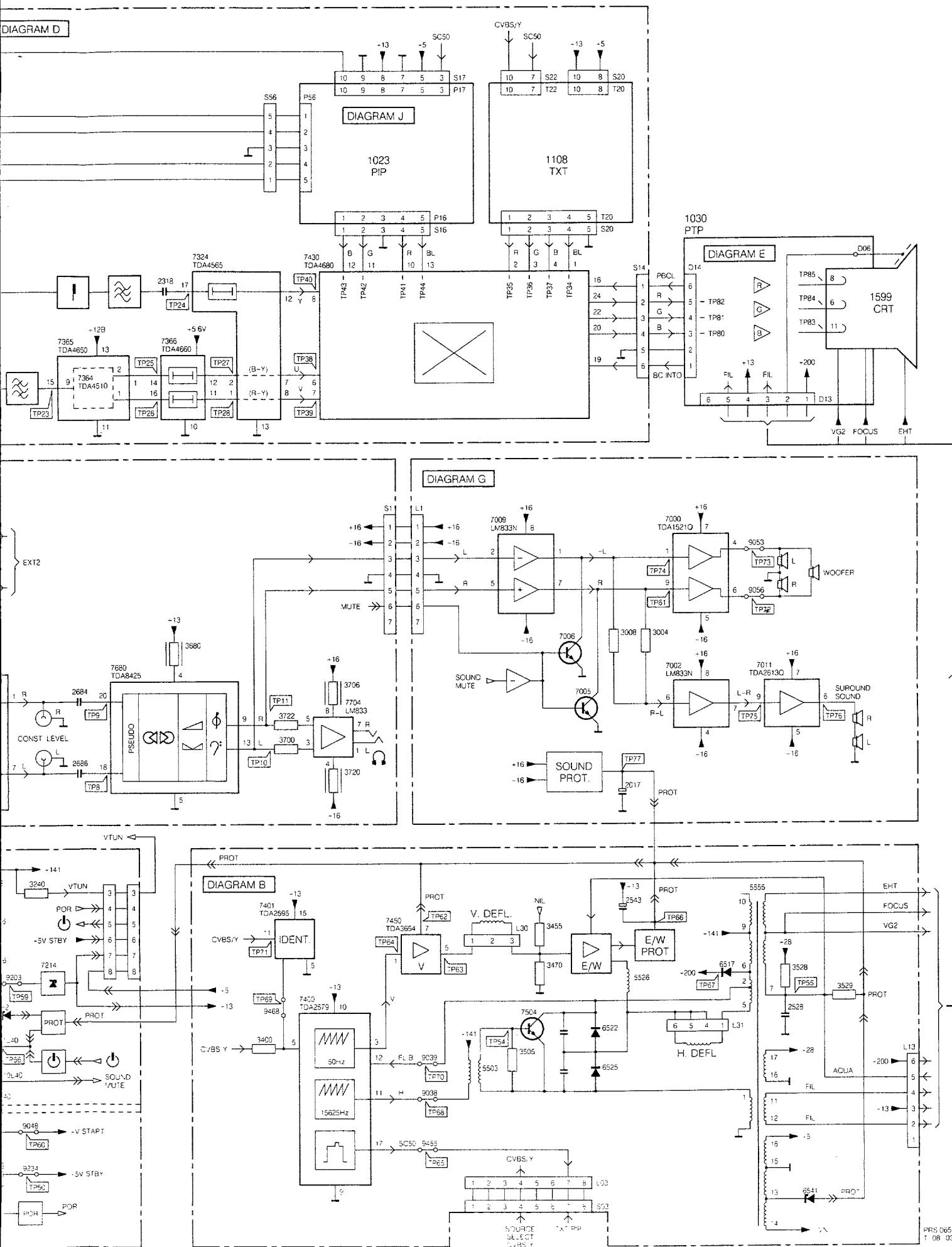


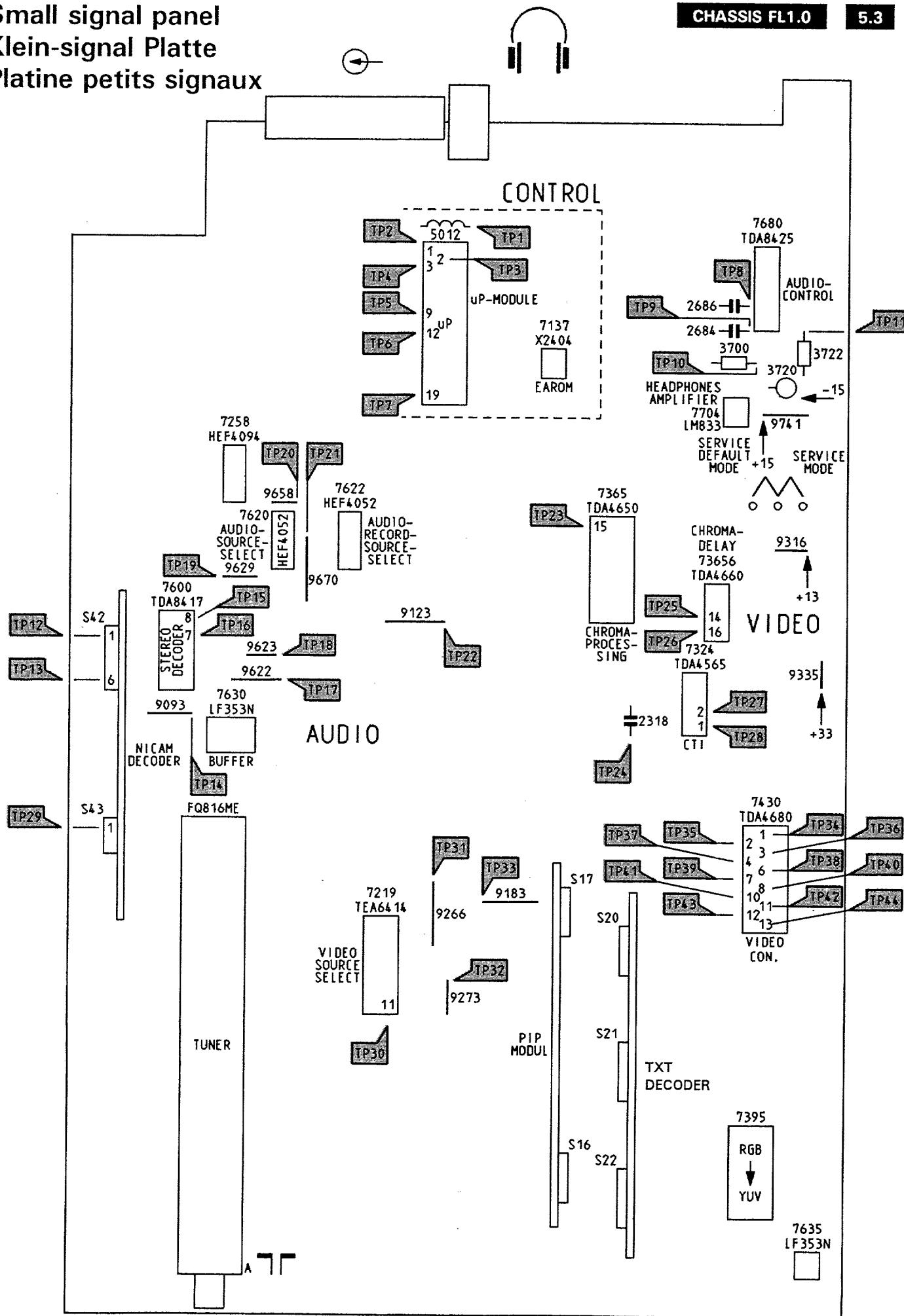
Diagramme schématique



Small signal panel
Klein-signal Platte
Platine petits signaux

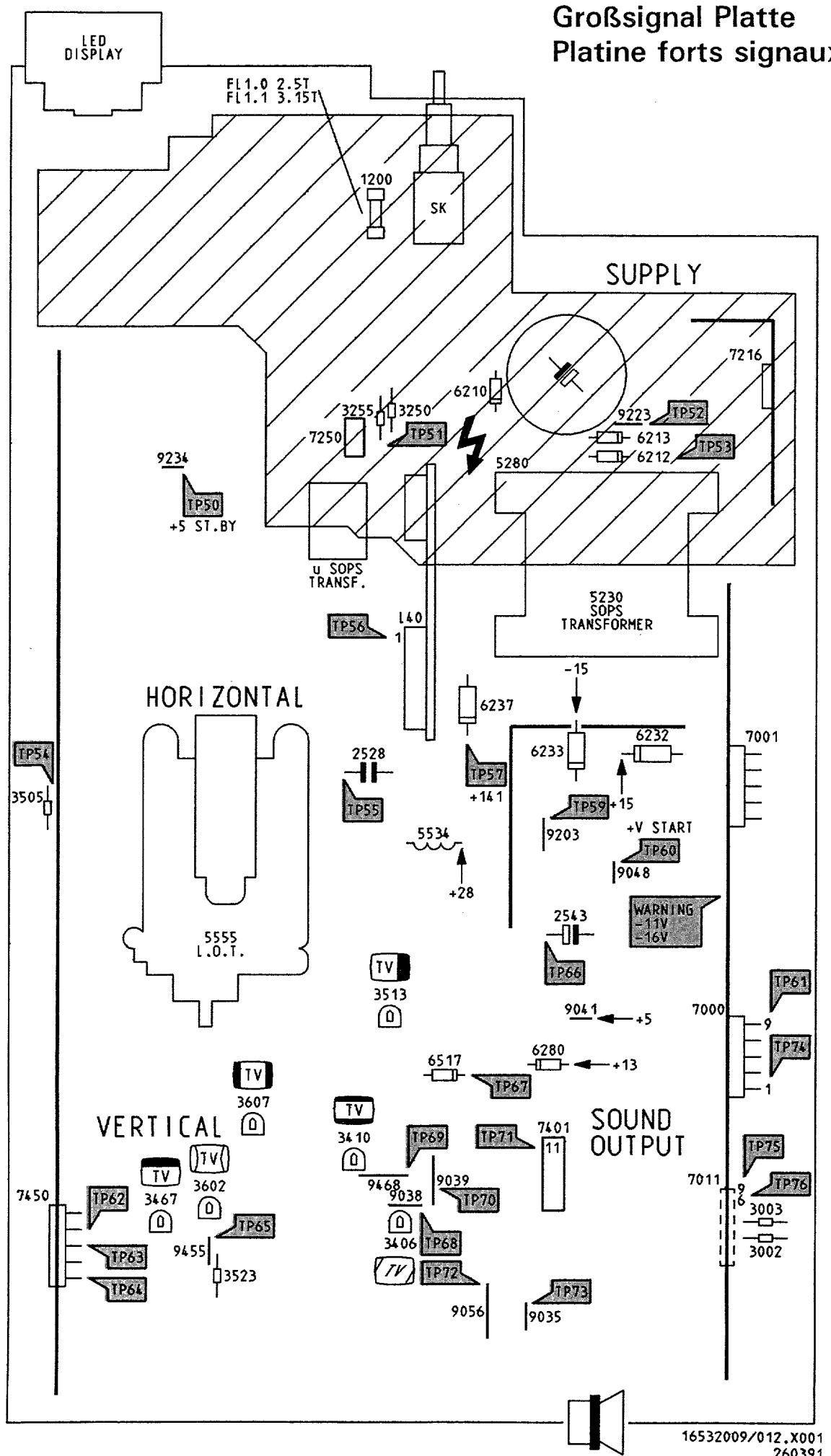
CHASSIS FL1.0

5.3



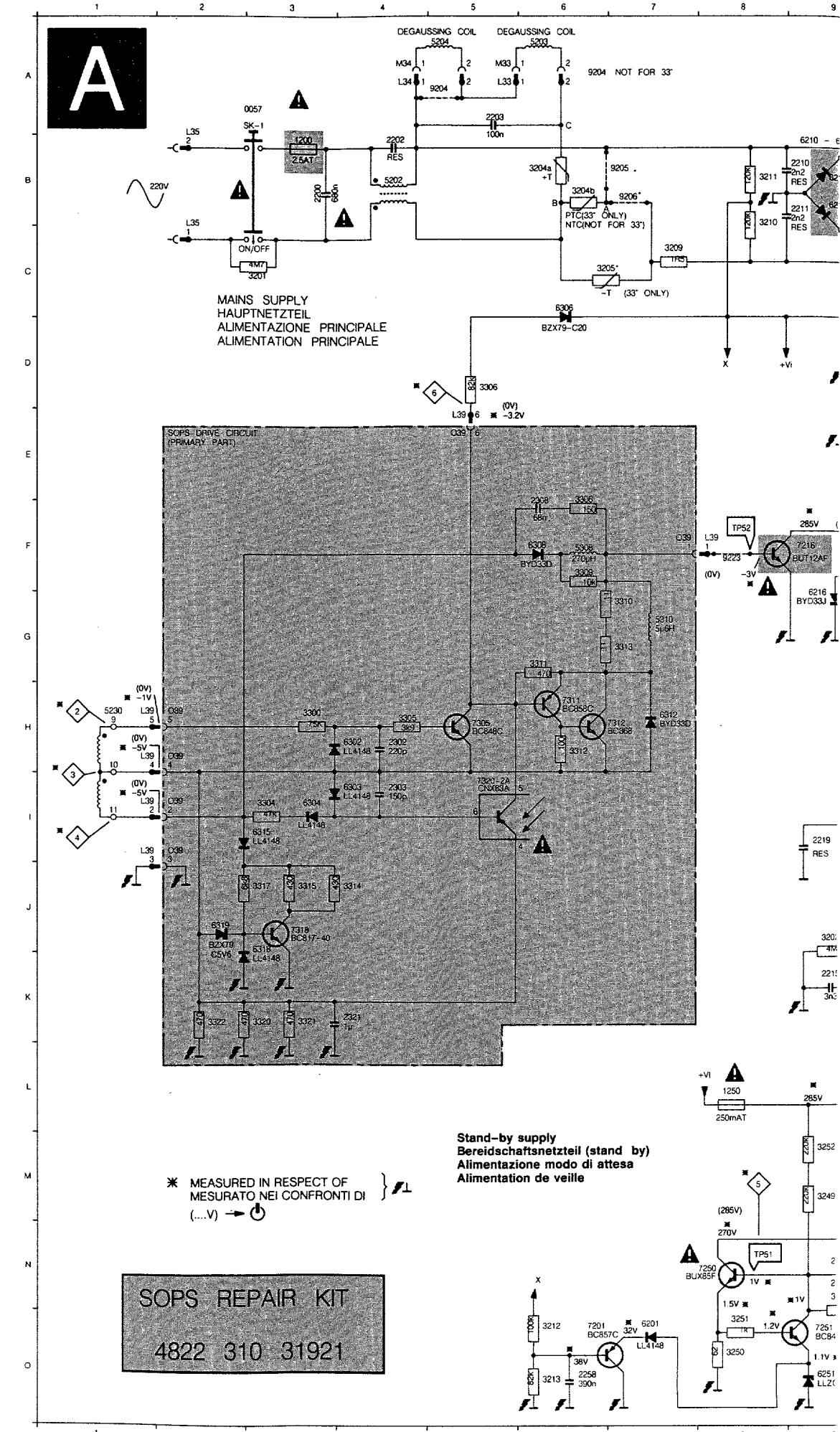
Large signal panel Großsignal Platte Platine forts signaux

Oscillo



Power supply

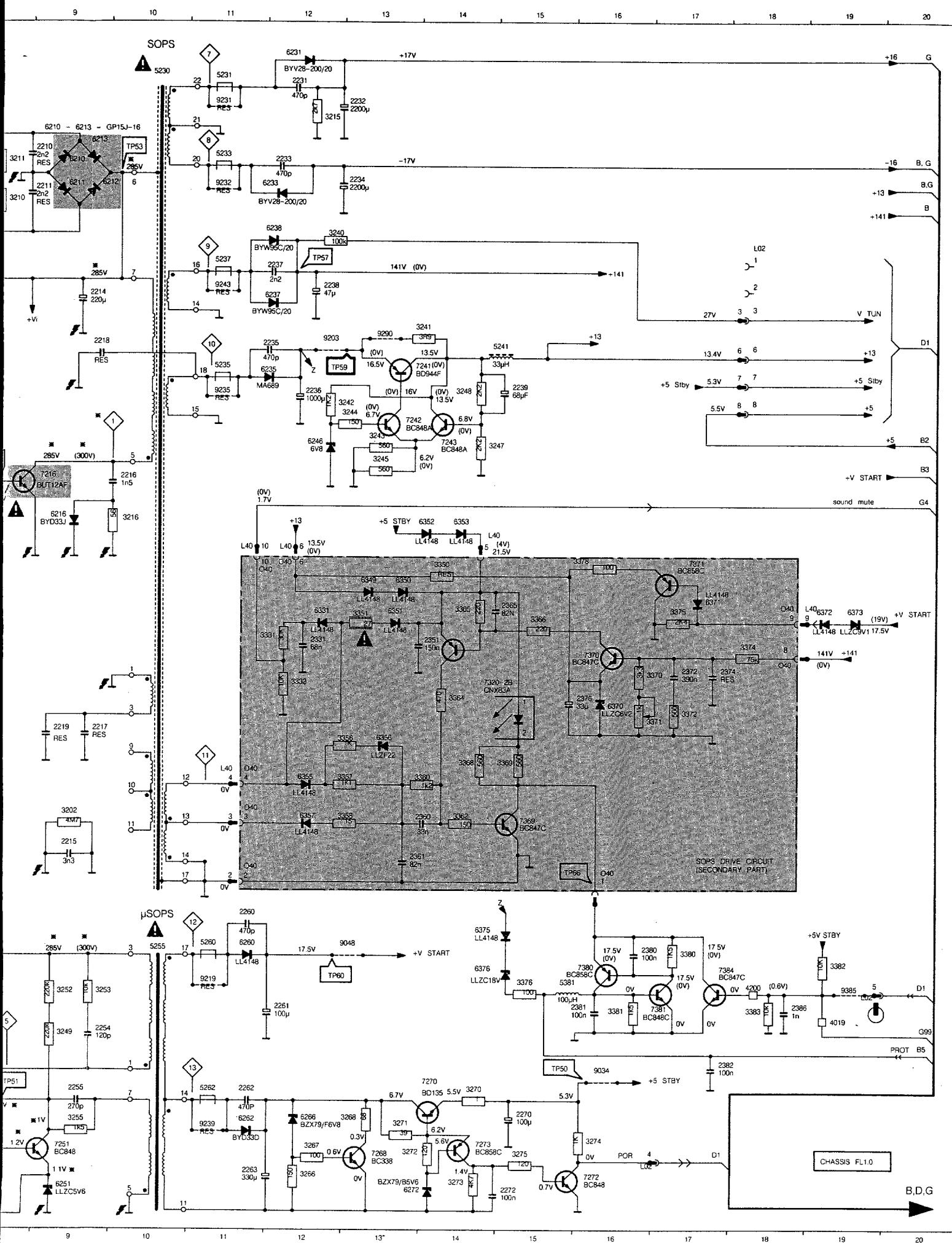
Stromversorgung

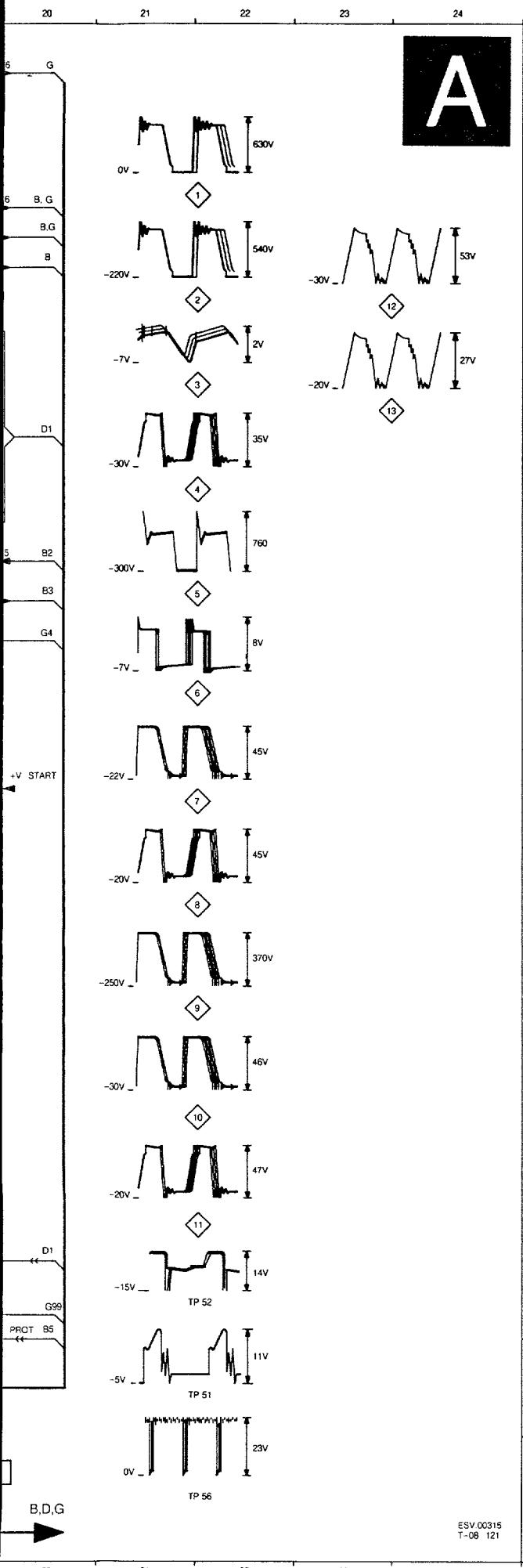


Alimentation

CHASSIS FL1.0

6.2





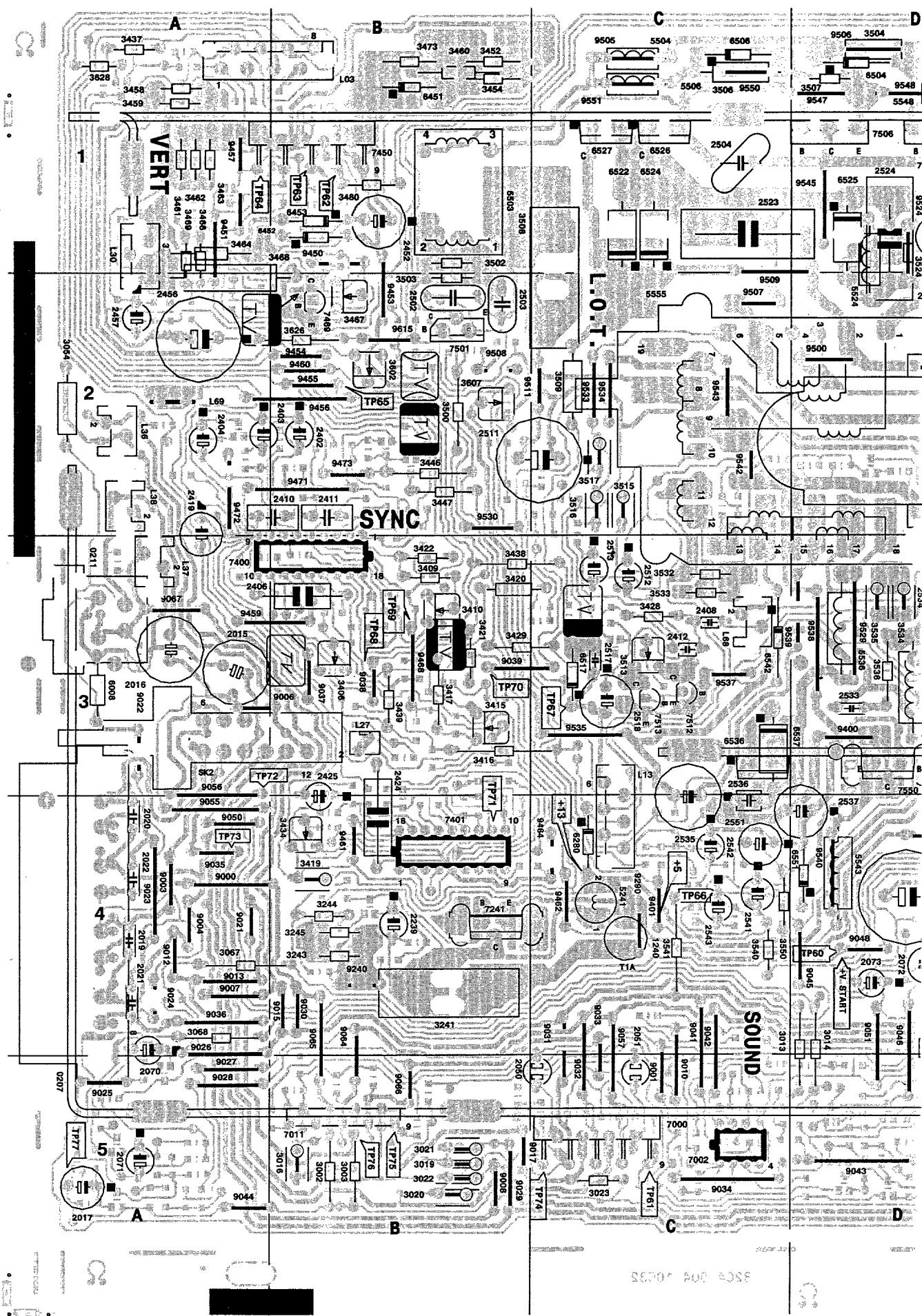
A	1 F7	3270 N14	+5 S1 E19
	1 K16	3271 N13	+5 ST G13
	2 I2	3272 O14	+5 ST N16
	2 K11	3273 O14	+V ST H10
	3 J11	3274 O16	+V ST H20
	3 J2	3275 O15	-V ST L13
	4 H2	3300 H3	3204a B6
	4 J11	3304 I3	3204b B6
	5 H2	3305 H4	7320- 15
	6 E5	3306 05	V TUN D19
	6 G12	3308 F6	
	9 H18	3309 F6	
	B C20	3310 G7	
	G A20	3311 G6	
	G B20	3312 H6	
	X N6	3313 G7	
	Z E12	3314 J4	
	Z L15	3315 J3	
	+5 E19	3317 J3	
	10 G11	3320 K3	
	B2 F20	3321 K3	
	B2 F20	3322 K2	
	B5 M20	3331 H12	
	D1 M20	3332 I12	
	D1 M20	3350 G14	
	D1 O17	3351 H13	
	G4 F20	3356 I13	
	+13 B19	3357 J13	
	+13 D16	3358 J13	
	+13 D19	3360 J14	
	+13 G12	3362 J14	
	+VI DB	3364 I14	
	+VI LB	3365 H14	
	B G B20	3366 H15	
	L02 C18	3368 J14	
	L02 M19	3369 J15	
	L02 O16	3370 I16	
	L33 A5	3371 I16	
	L34 A4	3372 I17	
	L35 B2	3374 H18	
	L35 C2	3375 H17	
	L39 E5	3376 M15	
	L39 F8	3378 G16	
	L39 H1	3380 I7	
	L39 I1	3381 M16	
	L39 I1	3382 L19	
	L39 I1	3383 M18	
	L40 G11	4019 M19	
	L40 G12	4200 M18	
	L40 G15	5202 B4	
	L40 H18	5203 A6	
	L40 J11	5204 A5	
	M33 A5	5230 A10	
	M34 A4	5230 H1	
	O39 E5	5231 A11	
	O39 F7	5233 B11	
	O39 H2	5235 E11	
	O39 H2	5237 C11	
	O39 I2	5241 D15	
	O39 I2	5255 L10	
	O40 G12	5260 L11	
	O40 G12	5262 N11	
	O40 H18	5308 F6	
	O40 H18	5310 F6	
	O40 J11	5381 M15	
	O40 J11	6201 07	
	O40 K11	6210 B9	
	O40 K16	6211 B9	
	P09 O16	6212 B9	
	+141 C16	6213 B9	
	+141 C19	6216 G9	
	+141 H19	6231 A12	
	1200 B3	6233 B12	
	1250 L8	6235 E12	
	2200 B3	6237 D12	
	2202 B4	6238 C12	
	2203 A5	6246 F12	
	2210 B9	6251 Q9	
	2211 B9	6280 L1	
	2214 F10	6282 N11	
	2215 K9	6283 N12	
	2216 F10	6272 O14	
	2217 I9	6302 H4	
	2218 O9	6303 I4	
	2219 I9	6304 I3	
	2231 A12	6306 C6	
	2232 A13	6308 F6	
	2233 B12	6312 H7	
	2234 B13	6315 I3	
	2235 D12	6318 K3	
	2236 E12	6319 J2	
	2237 C12	6331 H12	
	2238 D12	6349 G13	
	2239 E15	6350 G13	
	2254 M5	6351 H13	
	2255 N9	6352 G14	
	2256 O5	6353 G14	
	2260 I1	6355 J12	
	2261 M2	6356 I13	
	2262 N1	6357 J12	
	2263 C11	6370 I16	
	2270 N15	6371 H17	
	2272 O15	6372 H19	
	2302 H4	6373 H19	
	2303 I4	6375 L14	
	2308 F6	6376 L14	
	2321 K4	7201 06	
	2331 H12	7216 F9	
	2351 H14	7241 E13	
	2360 J14	7242 E13	
	2361 K13	7243 F14	
	2365 H15	7250 N8	
	2372 T7	7251 Q9	
	2374 I17	7258 O13	
	2376 I16	7270 N14	
	2380 L6	7272 O16	
	2381 M6	7273 O14	
	2382 N7	7305 H5	
	2386 M18	7311 H6	
	3201 C3	7312 H6	
	3202 J9	7318 J3	
	3205 C6	7320 I14	
	3209 C7	7369 J15	
	3210 C8	7370 H16	
	3211 B8	7371 G17	
	3212 O6	7380 L16	
	3213 O6	7381 M17	
	3215 A12	7384 L17	
	3216 O6	9203 N6	
	3240 C12	9204 I13	
	3241 D14	9203 D12	
	3242 E12	9204 A5	
	3243 F13	9205 B7	
	3244 E13	9206 B7	
	3245 F13	9219 M11	
	3247 F14	9223 F8	
	3248 E14	9231 A11	
	3249 M9	9232 B11	
	3250 O8	9235 E11	
	3251 O8	9239 N11	
	3252 M9	9243 D11	
	3253 M9	9250 D13	
	3254 O9	9330 M19	
	3268 O12	PROT M00	
	3267 O12	SK-1 A3	
	3268 N13	+5 S1 E17	

Large signal panel

Groß-signal Platine

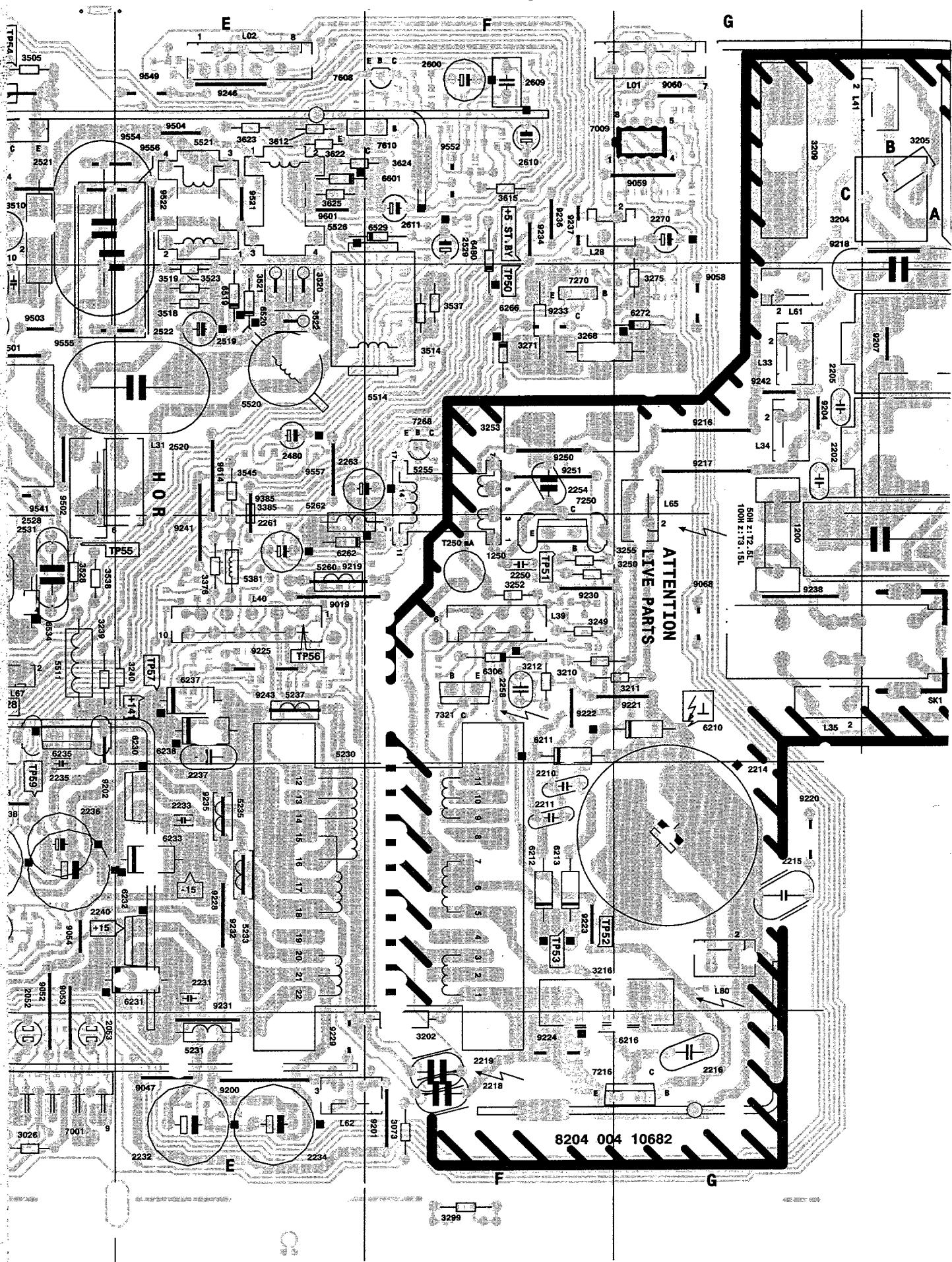
CHASSIS FL1.0

6.4



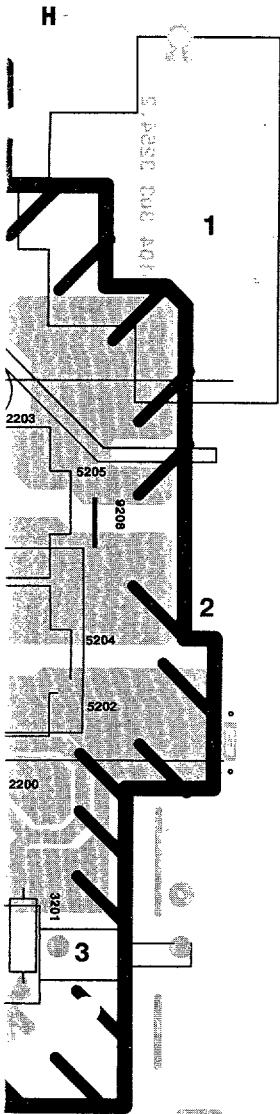
6.5 CHASSIS FL1.0

Platine forts signaux



CHASSIS FL1.0

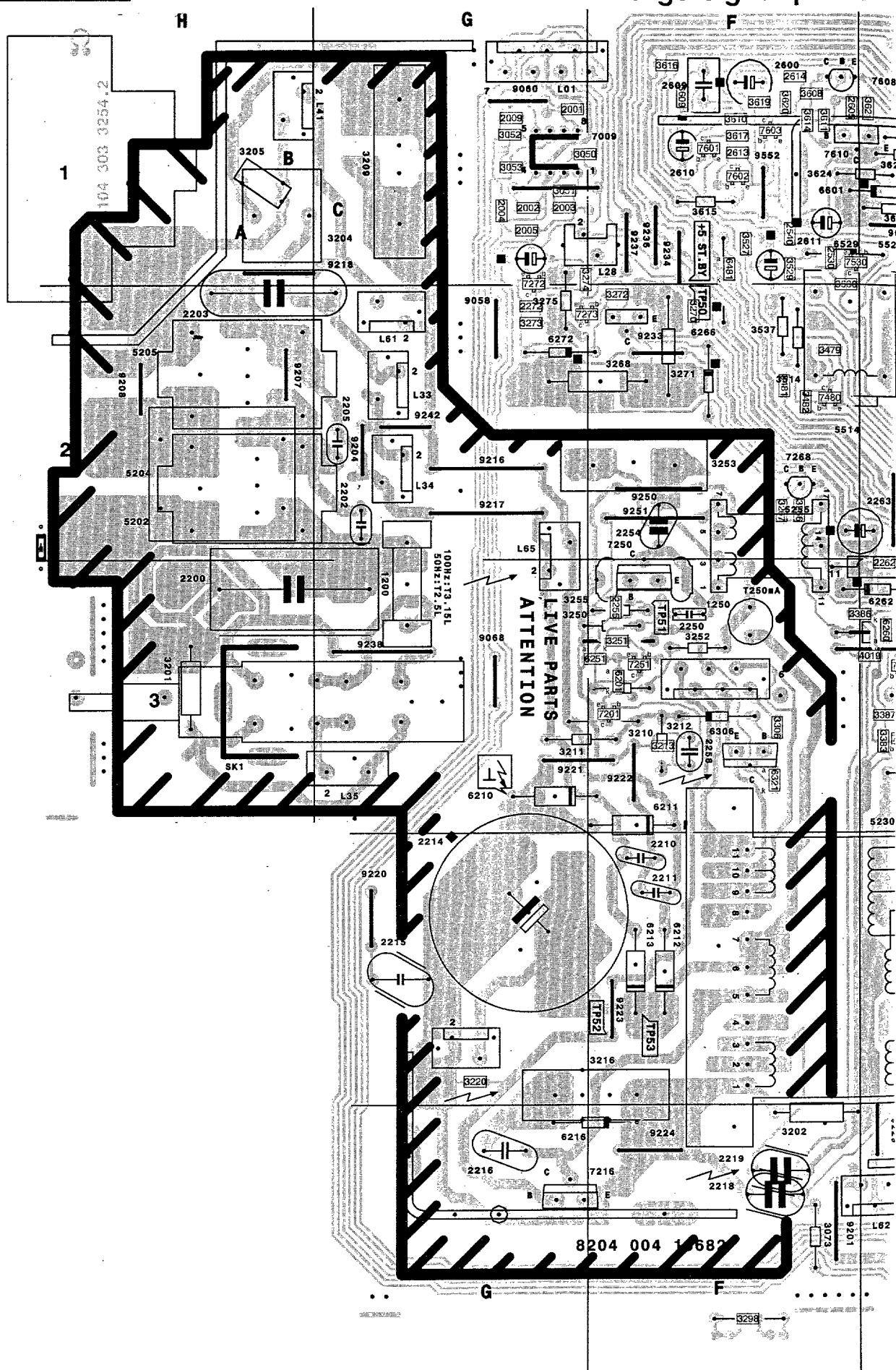
6.6



TP50 F2	2240 D4	3271 F2	3626 B2	7513 C3	9290 C4
TP51 F3	2250 F3	3275 G2	3628 A1	7550 D3	9300 H5
TP52 F4	2254 F2	3299 F5	5202 H2	7608 F1	9302 H4
TP53 F4	2258 F3	3300 H5	5204 H2	7610 E1	9385 E2
TP54 D1	2261 E3	3308 H5	5205 H2	9000 A4	9400 D3
TP55 D3	2263 E2	3310 H5	5230 F4	9001 C5	9401 C4
TP56 E3	2270 G1	3313 H5	5231 E5	9003 A4	9450 B1
TP57 E3	2321 H5	3314 H5	5233 E4	9004 A4	9451 A1
TP59 D4	2351 H4	3315 H5	5235 E4	9006 A3	9453 B2
TP60 D4	2361 H4	3331 H4	5237 E3	9007 A4	9454 B2
TP61 C5	2372 H4	3332 H4	5241 C4	9008 B5	9455 B2
TP62 B1	2376 H4	3351 H4	5255 F3	9010 C5	9456 B2
TP63 B1	2402 B2	3357 H4	5260 E3	9012 A4	9457 A1
TP64 A1	2403 A2	3358 H4	5262 E3	9013 A4	9459 B3
TP65 B2	2404 A2	3368 H4	5308 H5	9015 B4	9460 B2
TP66 C4	2406 B3	3369 H4	5310 H5	9017 B5	9461 B4
TP67 C3	2408 C3	3371 H4	5381 E3	9019 E3	9462 C4
TP68 B3	2410 B2	3374 H4	5503 B1	9021 A4	9464 C4
TP69 B3	2411 B2	3376 E3	5504 C1	9022 A3	9468 B3
TP70 B3	2412 C3	3385 E2	5506 C1	9023 A4	9471 B2
TP71 B4	2419 A2	3406 B3	5510 D1	9024 A4	9472 A2
TP72 A3	2424 B4	3409 B3	5511 D3	9025 A5	9473 B2
TP73 A4	2425 B4	3410 B3	5514 F2	9026 A4	9500 D2
TP74 C5	2452 B1	3415 B3	5520 E2	9027 A5	9501 D2
TP75 B5	2456 A2	3416 B3	5521 E1	9028 A5	9502 D2
TP76 B5	2457 A2	3417 B3	5524 D1	9029 B5	9503 D2
TP77 A5	2480 E2	3419 B4	5526 E1	9030 B4	9504 E1
O207 A4	2502 B2	3420 B3	5534 D3	9031 C4	9505 C1
O211 A3	2503 B2	3421 B3	5536 D3	9032 C5	9506 D1
O39 H5	2504 C1	3422 B3	5543 D4	9033 C5	9507 C2
O40 H4	2510 D2	3428 C3	5548 D1	9034 C5	9508 B2
L01 F1	2511 C2	3429 B3	5555 D3	9035 A4	9509 C1
L02 E1	2512 C3	3434 B4	6008 A3	9036 A4	9511 C2
L03 A1	2513 C3	3437 A1	6210 G3	9037 B3	9521 E1
L13 C4	2517 C3	3438 B3	6211 F3	9038 B3	9522 E1
L27 B3	2518 C3	3439 B3	6212 F4	9039 B3	9524 D1
L28 G1	2519 E2	3446 B2	6213 F4	9041 C4	9529 D3
L30 A1	2520 E2	3447 B2	6216 F5	9042 C4	9530 B2
L31 E2	2521 D1	3452 B1	6230 E4	9043 D5	9533 C2
L33 G2	2522 D1	3454 B1	6231 E4	9044 A5	9534 C2
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Large signal panel

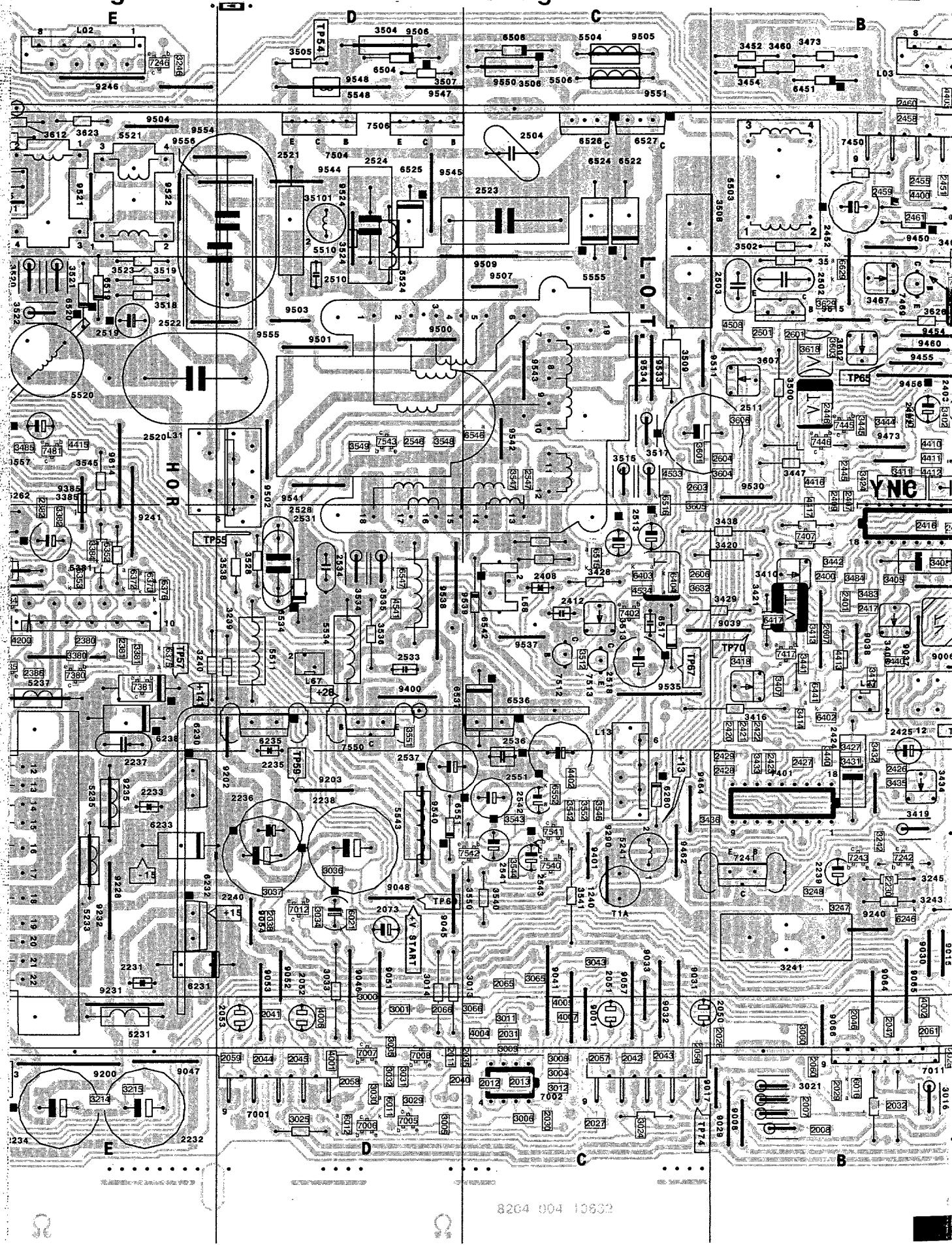


Groß-signal Platine

Platine forts signaux

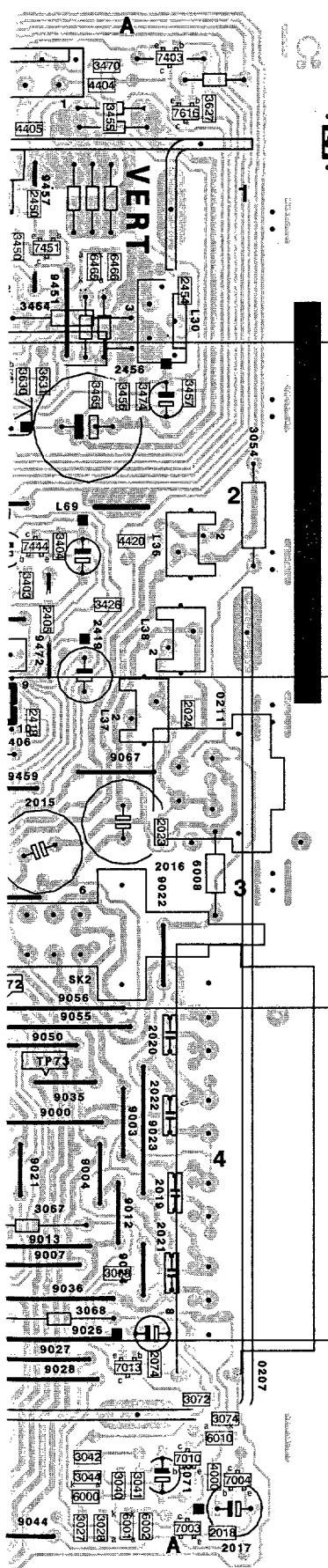
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CHASSIS FL1.0



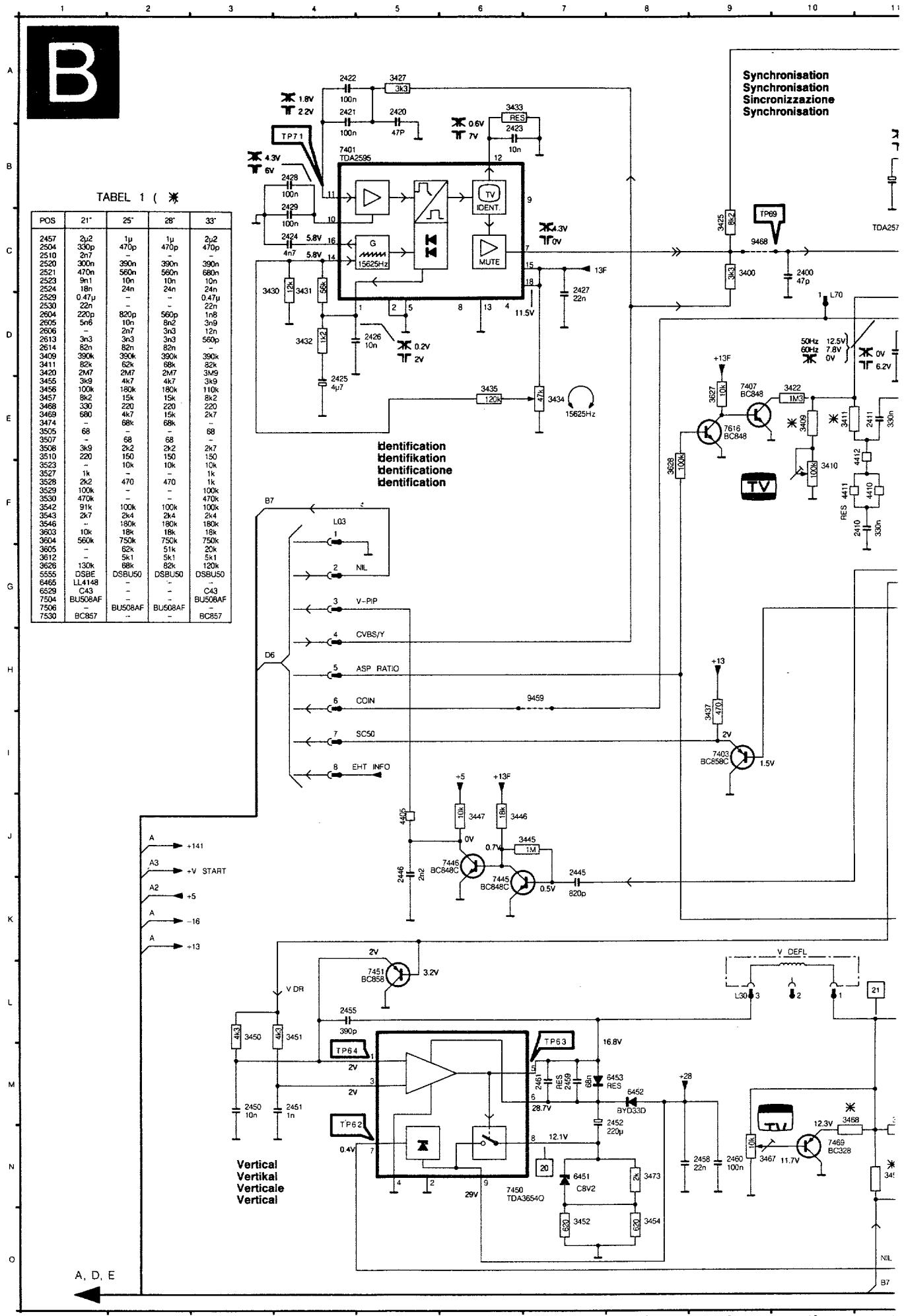
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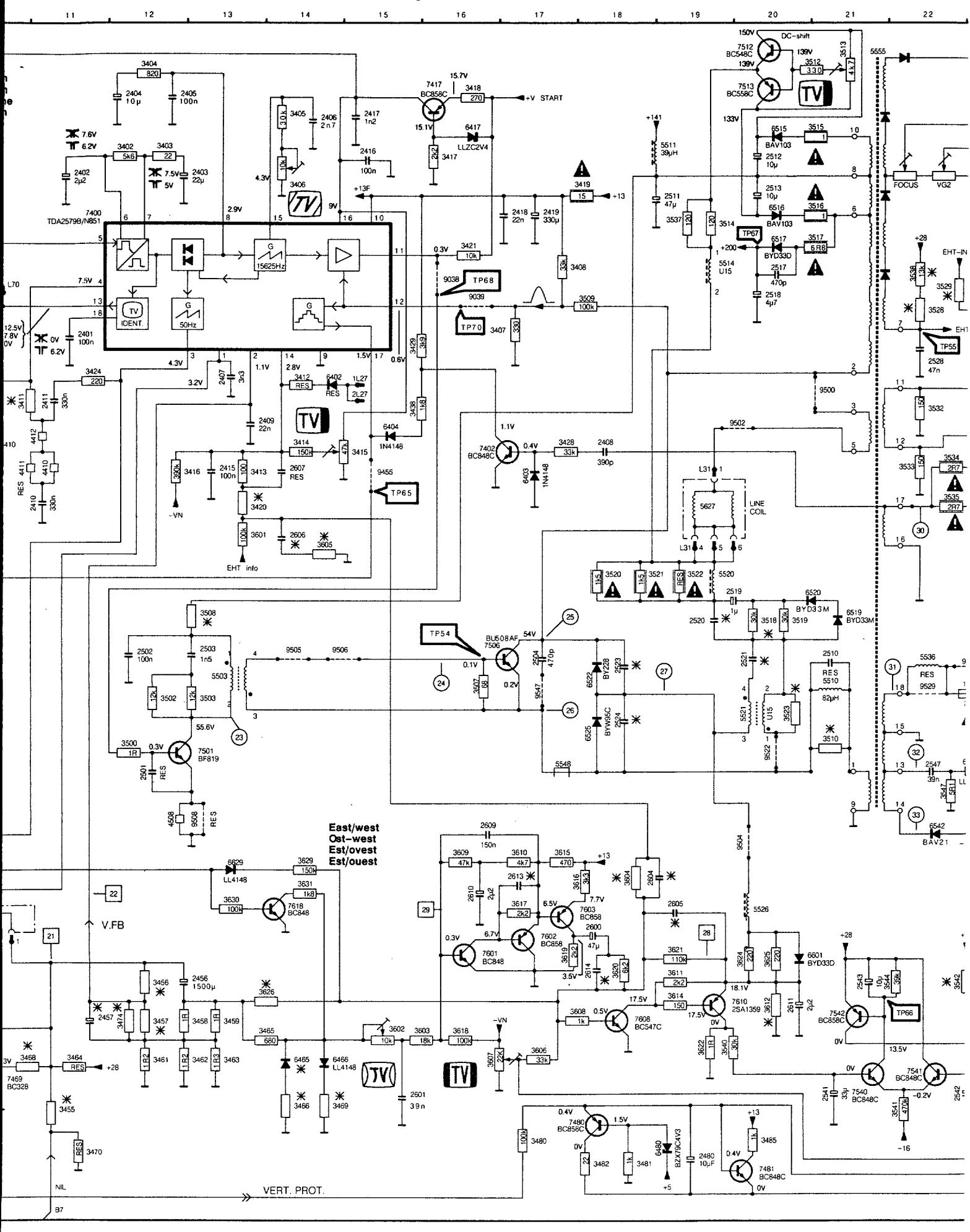
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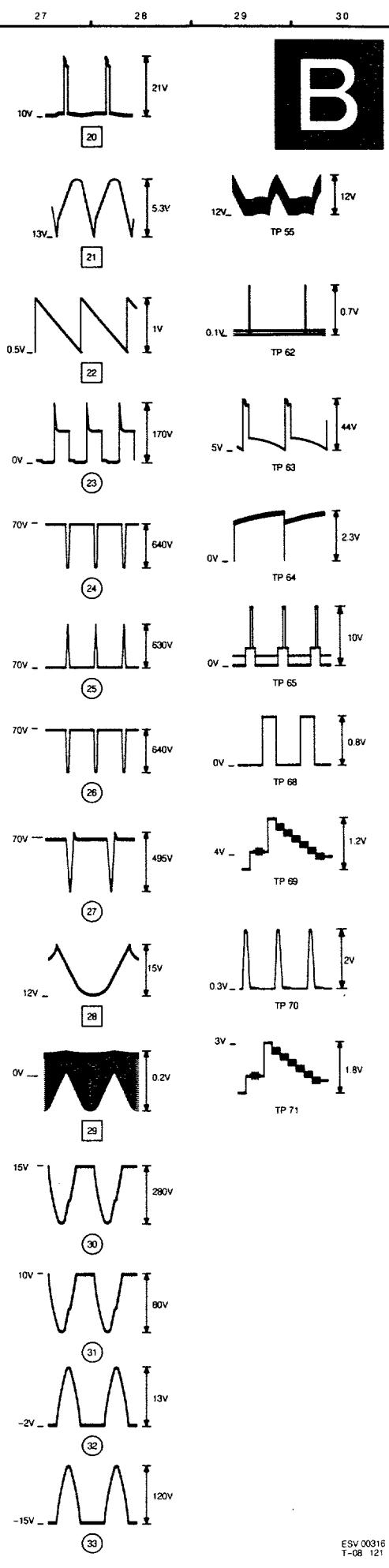
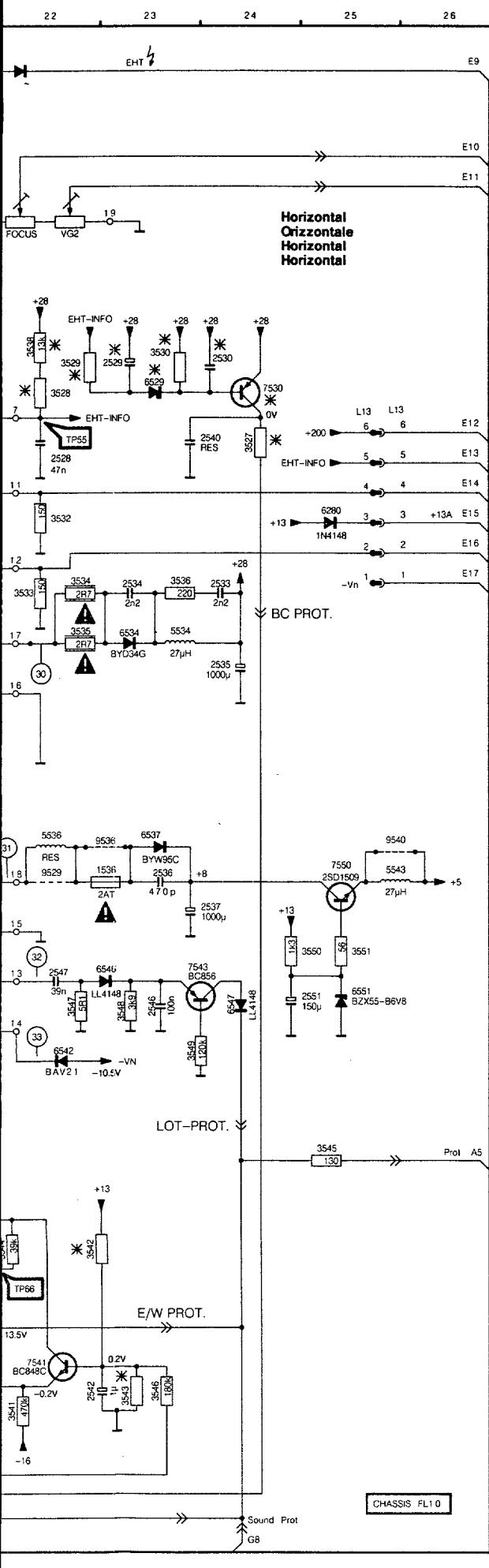
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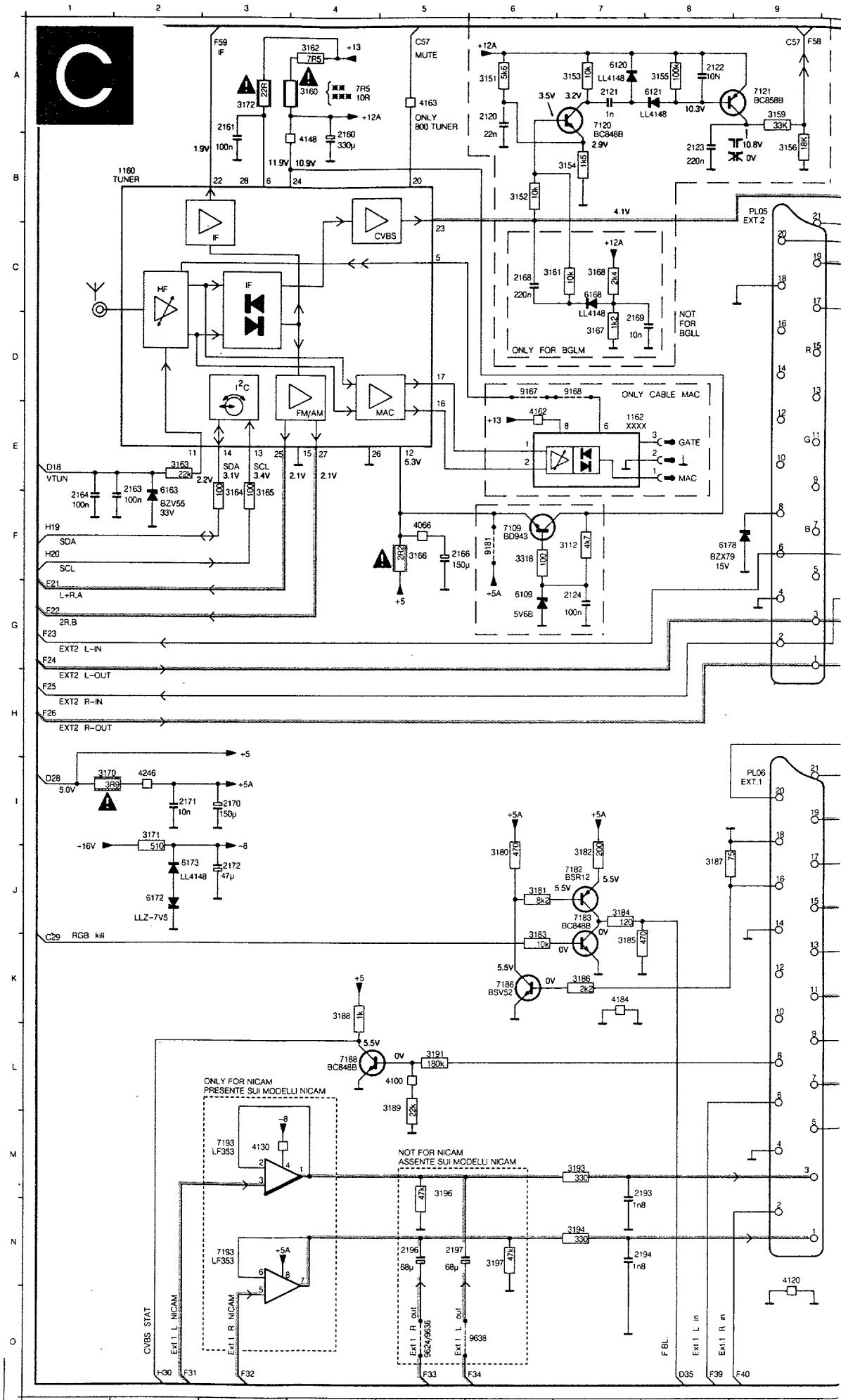


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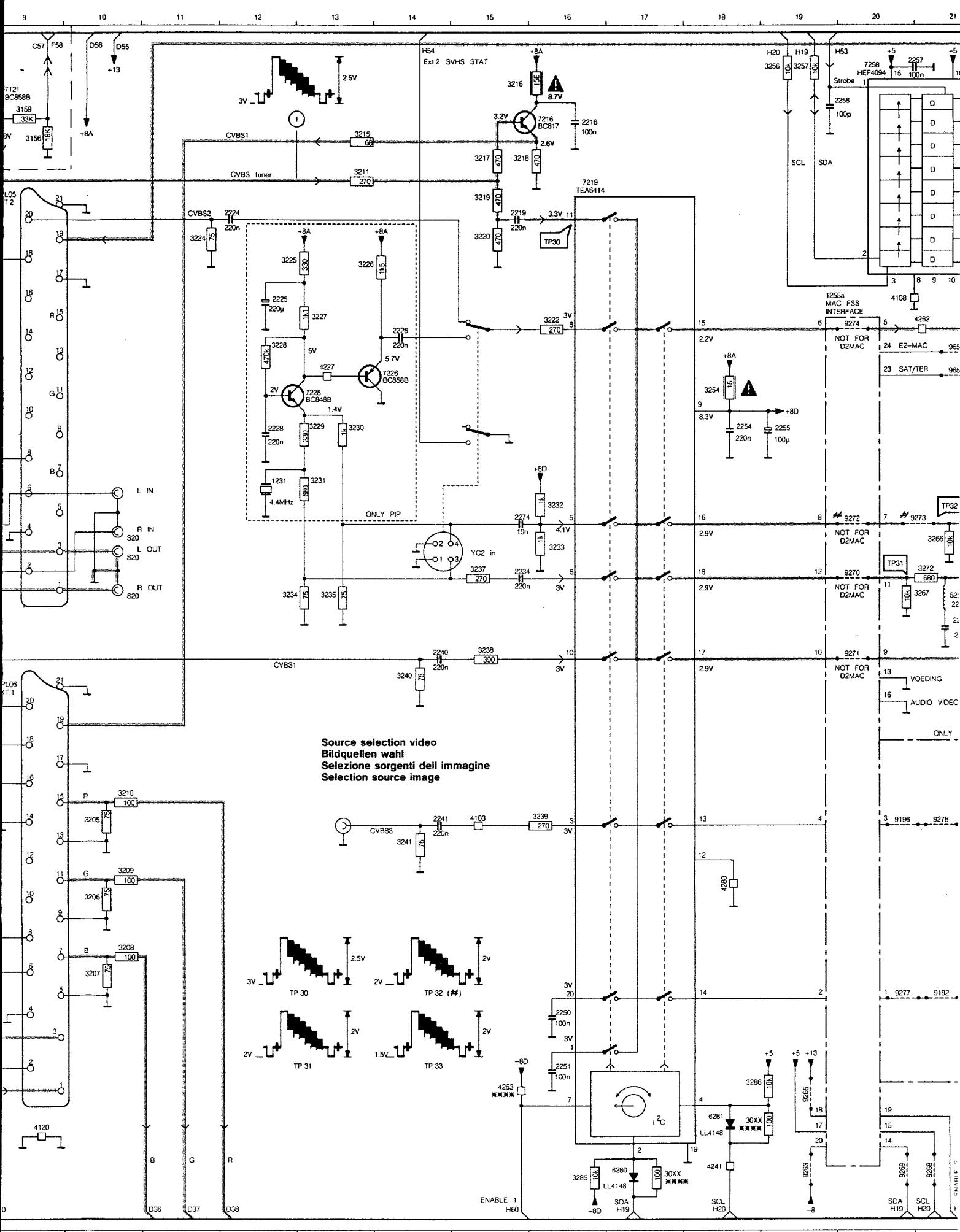
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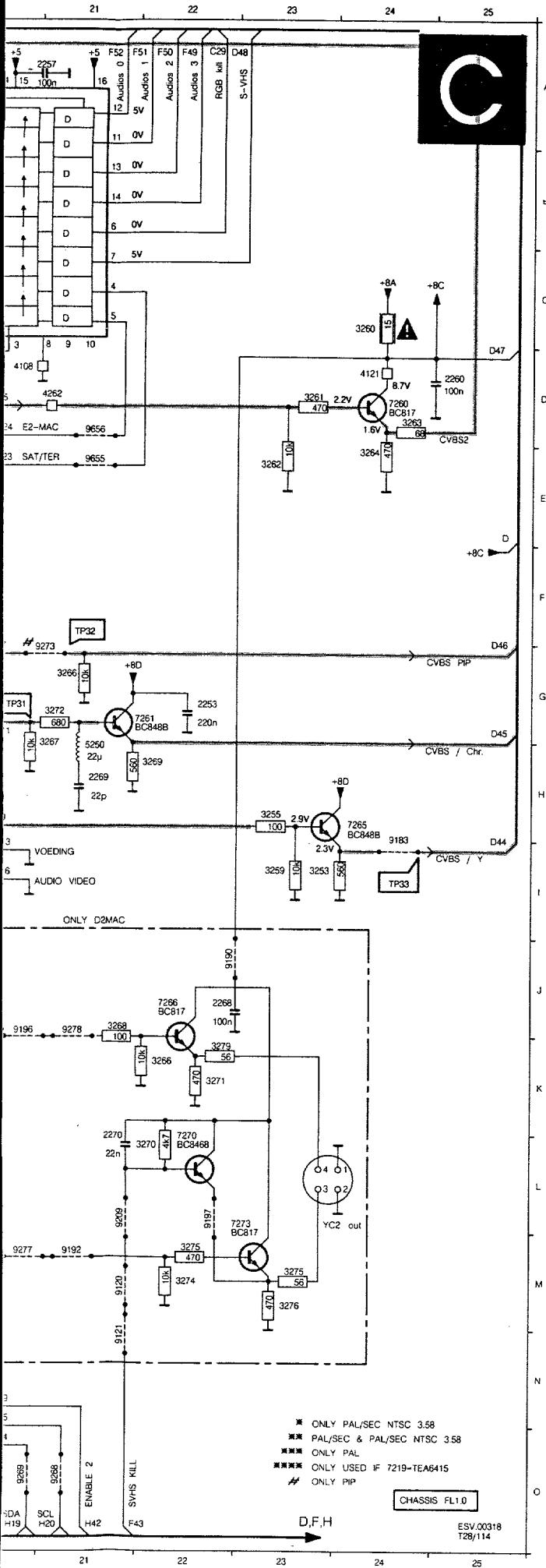


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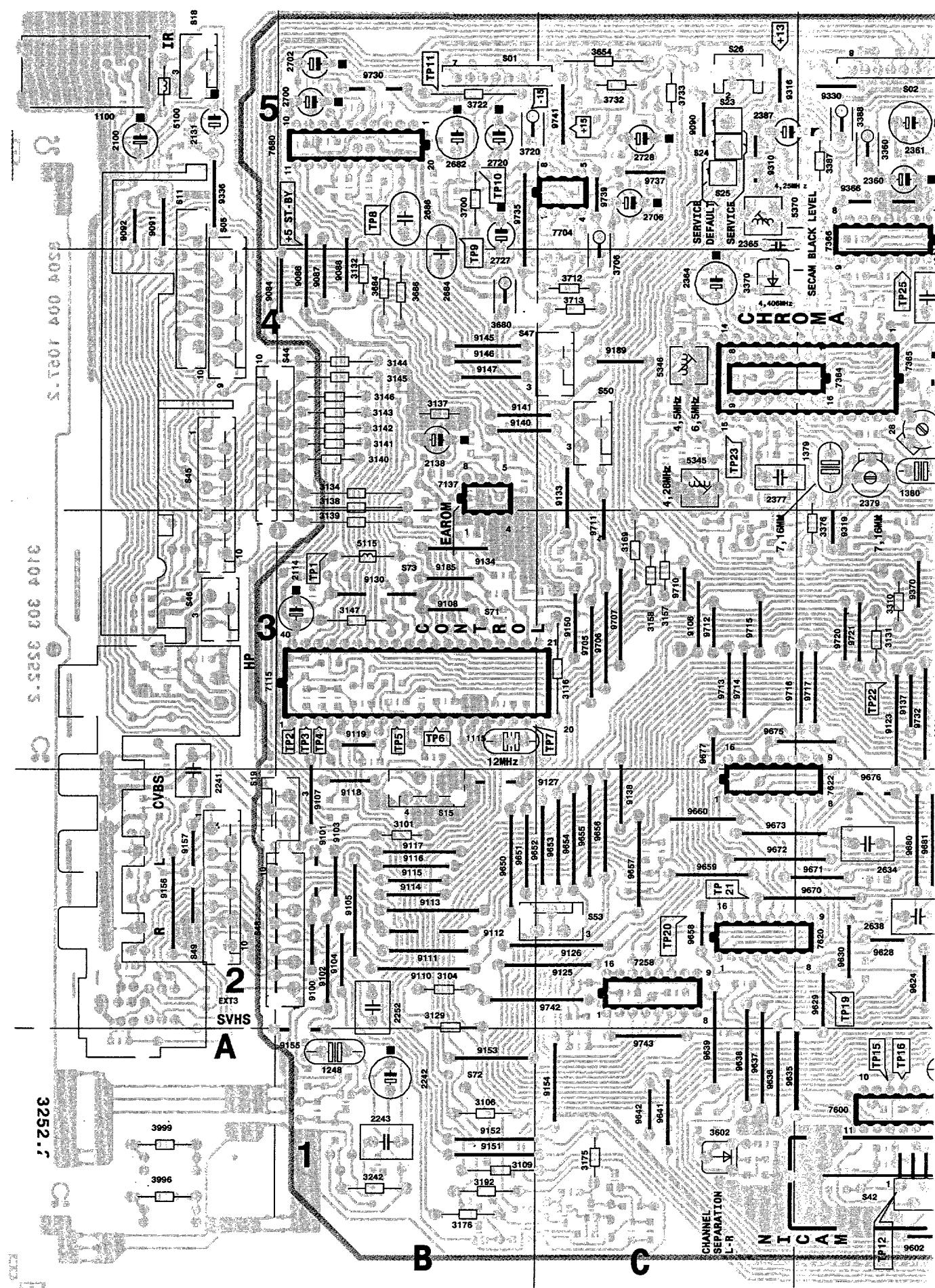
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	2121 A7	4252 D21
	2122 A8	4263 N15
	2123 B8	4280 K18
	2124 G7	5250 H21
	2160 B4	6109 G6
	2161 A3	6120 A7
	2163 F2	6121 A8
	2165 F1	6164 F2
	2166 F5	6168 C7
	2168 C6	6172 L2
	2169 D7	6173 J2
	2170 L3	6178 F8
	2171 I2	6280 O17
	2172 J3	6281 N18
	2193 M8	7109 F6
	2194 N8	7120 A7
	2195 N5	7121 A9
	2197 N5	7182 J7
	2216 A16	7183 J7
	2219 C15	7186 K6
	2224 C12	7188 L4
	2225 D12	7193 M3
	2226 D14	7193 N3
	2228 E2	7216 A16
	2230 G15	7216 B16
	2240 H14	7226 E14
	2241 J14	7228 L13
	2250 M16	7258 A20
	2251 N16	7260 D24
	2253 G22	7261 G21
	2254 E18	7265 H24
	2255 E19	7266 J22
	2257 A21	7270 L22
	2258 A20	7273 L22
	2260 D25	9120 M21
	2268 J22	9121 N21
	2269 H21	9167 D6
	2270 L21	9168 D7
	2274 G15	9181 F6
	30XX N18	9183 H24
	30XX Q7	9193 J22
	3115 F7	9192 M21
	3151 A6	9196 L20
	3152 B6	9197 L22
	3153 A7	9209 L21
	3154 B7	9263 O19
	3155 A8	9265 N19
	3156 B9	9268 O21
	3159 A9	9269 O20
	3160 A4	9270 G20
	3161 C6	9271 H20
	3162 A4	9272 G20
	3163 E2	9273 G21
	3164 F3	9274 D20
	3165 F3	9277 M20
	3166 F5	9278 J21
	3167 D7	9632 O6
	3168 C7	9655 D21
	3170 I1	9656 D21
	3171 I2	PL05 B9
	3172 A3	PL06 I9
	3180 J6	9624 O6
	3181 J6	
	3182 J7	
	3183 K6	
	3184 J7	
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	3186 K7	
	3187 J8	
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	3189 L5	
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	3194 N7	

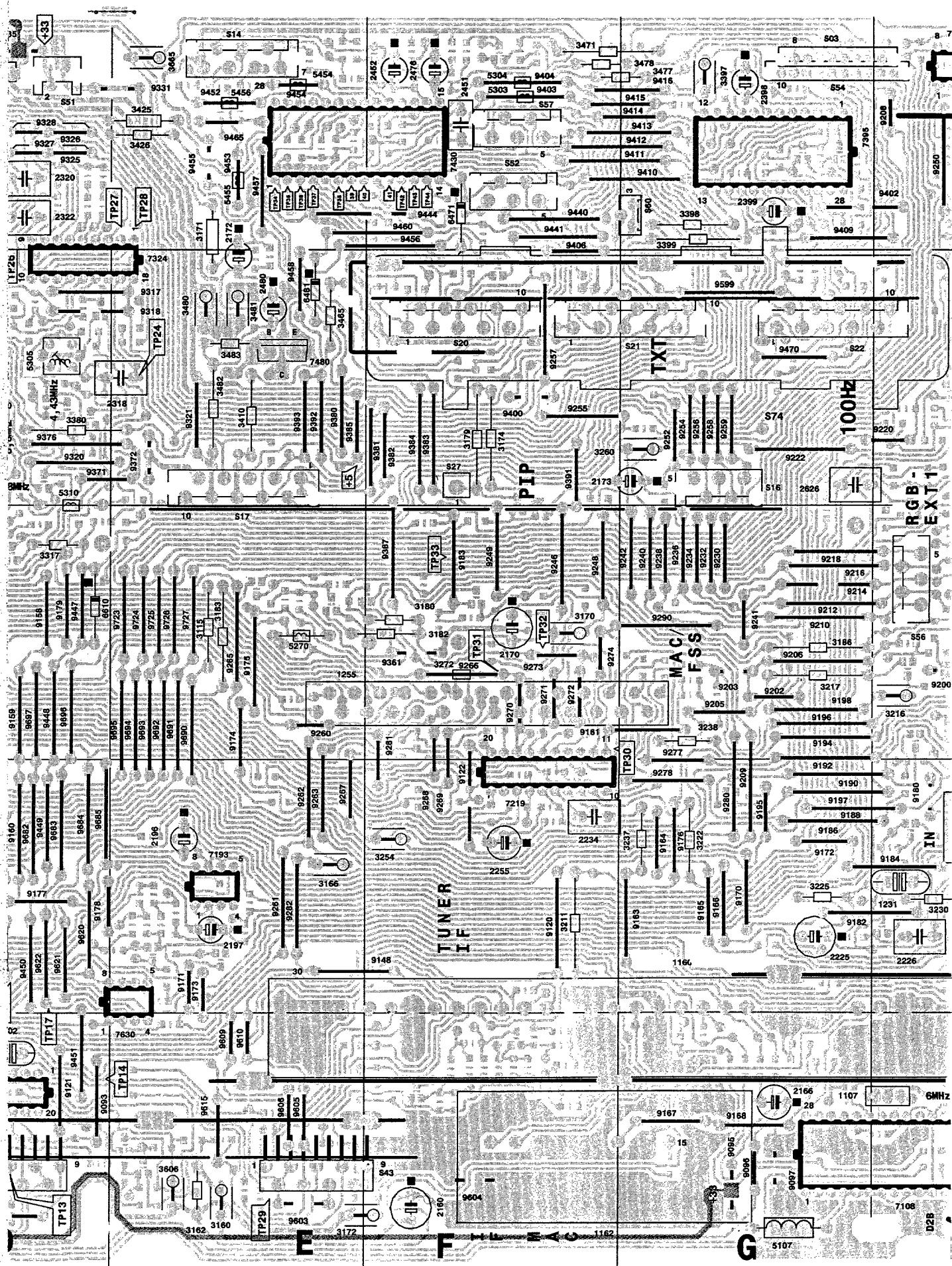
Small signal panel

Klein-signal Platine

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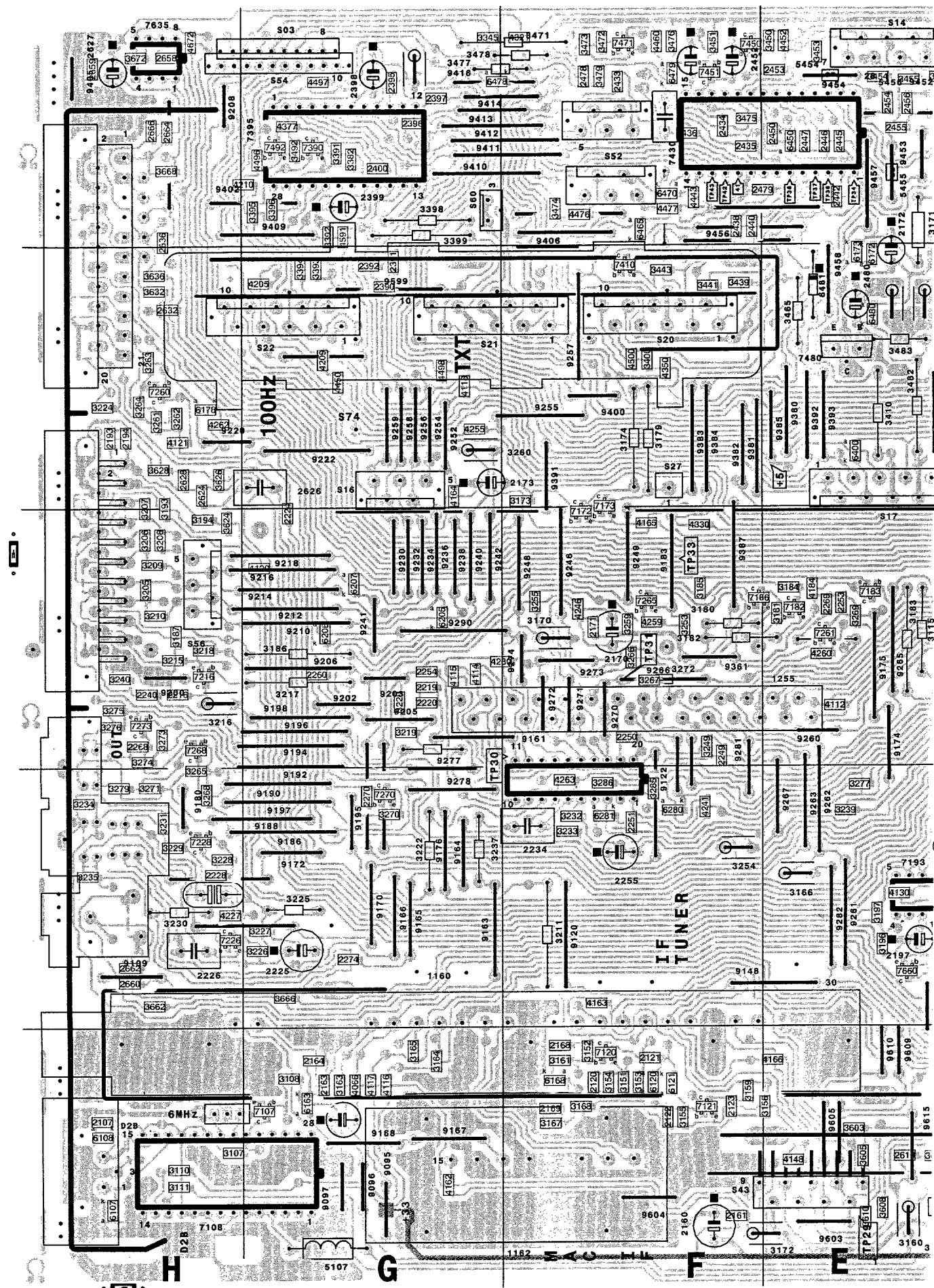


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TP4	B3	2160	F1	3260	G4	9114	B2	9255	F4	9609	E1
TP5	B3	2166	G1	3272	F3	9115	B2	9256	G4	9610	E1
TP6	B3	2170	F3	3310	D3	9116	B2	9257	F4	9615	E1
TP7	B3	2172	E4	3317	D3	9117	B2	9258	G4	9620	D2
TP8	B5	2173	G4	3360	D5	9118	B2	9259	G4	9621	D2
TP9	B5	2196	E2	3370	C4	9119	B3	9260	E3	9622	D2
TP10	B5	2197	E2	3376	D3	9120	F2	9261	E2	9623	D2
TP11	B5	2225	G2	3380	D4	9121	D1	9262	E2	9624	D2
TP12	D1	2226	H2	3387	D5	9122	F2	9263	E2	9628	D2
TP13	D2	2234	F2	3388	D5	9123	D3	9265	E3	9629	D2
TP14	D1	2241	A2	3397	G5	9125	C2	9266	F3	9630	D2
TP15	D1	2242	B1	3398	G5	9126	C2	9267	E2	9635	C1
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TP17	D2	2252	B2	3410	E4	9130	B3	9269	F2	9637	C1
TP18	D2	2255	F2	3425	E5	9133	C4	9270	F3	9638	C1
TP19	D2	2318	E4	3426	E5	9134	B3	9271	F3	9639	C1
TP20	C2	2320	D5	3465	E4	9137	D3	9272	F3	9641	C1
TP21	C2	2322	D5	3471	F5	9138	C2	9273	F3	9642	C1
TP22	D3	2360	D5	3477	F5	9140	B4	9274	F3	9650	B2
TP23	C4	2361	D5	3478	F5	9141	B4	9277	G2	9651	B2
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TP25	D4	2365	C4	3481	E4	9146	B4	9280	G2	9653	C2
TP26	D4	2377	C4	3482	E4	9147	B4	9281	F2	9654	C2
TP27	E5	2379	D4	3483	E4	9148	E2	9282	E2	9655	C2
TP28	E5	2380	D4	3602	C1	9150	C3	9290	G3	9656	C2
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TP30	F3	2387	C5	3654	C5	9152	B1	9316	C5	9658	C2
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TP33	F3	2451	F5	3684	B4	9155	B1	9319	D3	9670	D2
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TP42	F5	2684	B4	3733	C5	9165	G2	9335	D5	9681	D2
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TP44	F5	2700	B5	3999	A1	9167	G1	9361	F3	9683	D2
D2B	H1	2702	B5	5100	A5	9168	G1	9366	D5	9684	D2
EXT1	H3	2706	C5	5107	G1	9170	G2	9370	D3	9685	D2
EXT2	H4	2720	B5	5115	B3	9171	E2	9371	D4	9690	E3
EXT3	A3	2727	B5	5270	E3	9172	G2	9372	E4	9691	E3
S01	B5	2728	C5	5303	F5	9173	E2	9376	D4	9692	E3
S02	D5	3101	B2	5304	F5	9174	E3	9379	D4	9693	E3
S03	H5	3104	B2	5305	D4	9175	E3	9380	E4	9694	E3
S05	A4	3106	B1	5310	D3	9176	G2	9381	F4	9695	E3
S11	A5	3109	B1	5345	C4	9177	D2	9382	F4	9696	D3
S14	E5	3115	E3	5346	C4	9178	D2	9383	F4	9697	D3
S15	B2	3116	C3	5370	C5	9179	D3	9384	F4	9698	D3
S16	G4	3125	B2	5454	E5	9180	H2	9385	E4	9705	C3
S17	E4	3131	D3	5455	E5	9182	G2	9387	F3	9706	C3
S18	A5	3132	B4	5456	E5	9183	F3	9391	F4	9707	C3
S19	B2	3134	B4	6471	F5	9184	H2	9392	E4	9710	C3
S20	F4	3137	B4	6481	E4	9185	B3	9393	E4	9711	C3
S21	F4	3138	B3	6610	D3	9186	G2	9400	F4	9712	C3
S22	G4	3139	B3	7115	B3	9188	G2	9402	G5	9713	C3
S23	C5	3140	B4	7137	B3	9189	C4	9403	F5	9714	C3
S24	C5	3141	B4	7193	E2	9190	G2	9404	F5	9715	C3
S25	C5	3142	B4	7219	F2	9192	G2	9405	H5	9716	D3
S26	C5	3143	B4	7324	E5	9194	G3	9406	F4	9717	D3
S27	F4	3144	B4	7366	D5	9195	G2	9409	G5	9720	D3
S42	D1	3145	B4	7395	G5	9196	G3	9410	G5	9721	D3
S43	E1	3146	B4	7430	E5	9197	G2	9411	F5	9723	E3
S44	B4	3147	B3	7480	E4	9198	G3	9412	F5	9724	E3
S45	A4	3157	C3	7635	H5	9200	H3	9413	G5	9725	E3
S46	A3	3158	C3	7680	B5	9202	G3	9414	G5	9726	E3
S47	C4	3160	E1	7704	C5	9203	G3	9415	F5	9727	E3
S48	B2	3162	E1	9084	B4	9205	G3	9416	G5	9730	B5
S49	A2	3166	E2	9086	B4	9206	G3	9440	F5	9732	D3
S50	C4	3169	C3	9087	B4	9208	H5	9441	F5	9735	B5
S51	D5	3170	F3	9088	B4	9209	G2	9444	F5	9737	C5
S52	F5	3171	E5	9090	C5	9210	G3	9447	D3	9739	C5
S53	C2	3172	E1	9091	A5	9212	G3	9448	D3	9741	C5
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S56	H3	3175	C1	9093	D1	9216	G3	9450	D2	9743	C1
S57	F5	3176	B1	9095	G1	9218	G3	9451	D1		
S60	G5	3179	F4	9096	G1	9220	H4	9452	E5		
SVHS	H2	3180	F3	9097	G1	9222	G4	9453	E5		
1100	A5	3182	F3	9100	B2	9230	G3	9454	E5		
1107	G1	3183	E3	9101	B2	9232	G3	9455	E5		
1115	B3	3186	G3	9102	B2	9234	G3	9456	F4		
1160	E2	3192	B1	9103	B2	9236	G3	9457	E5		
1162	F1	3211	F2	9104	B2	9238	G3	9458	E4		
1231	H2	3216	H3	9105	B2	9240	G3	9460	F5		
1248	B1	3217	G3	9106	C3	9241	G3	9465	E5		
1379	D4	3222	G2	9107	B2	9242	G3	9470	G4		
1380	D4	3225	G2	9108	B3	9246	F3	9599	G4		
1602	D1	3230	H2	9109	H2	9248	F3	9602	D1		
2100	A5	3237	G2	9110	B2	9249	F3	9603	E1		

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Small signal panel

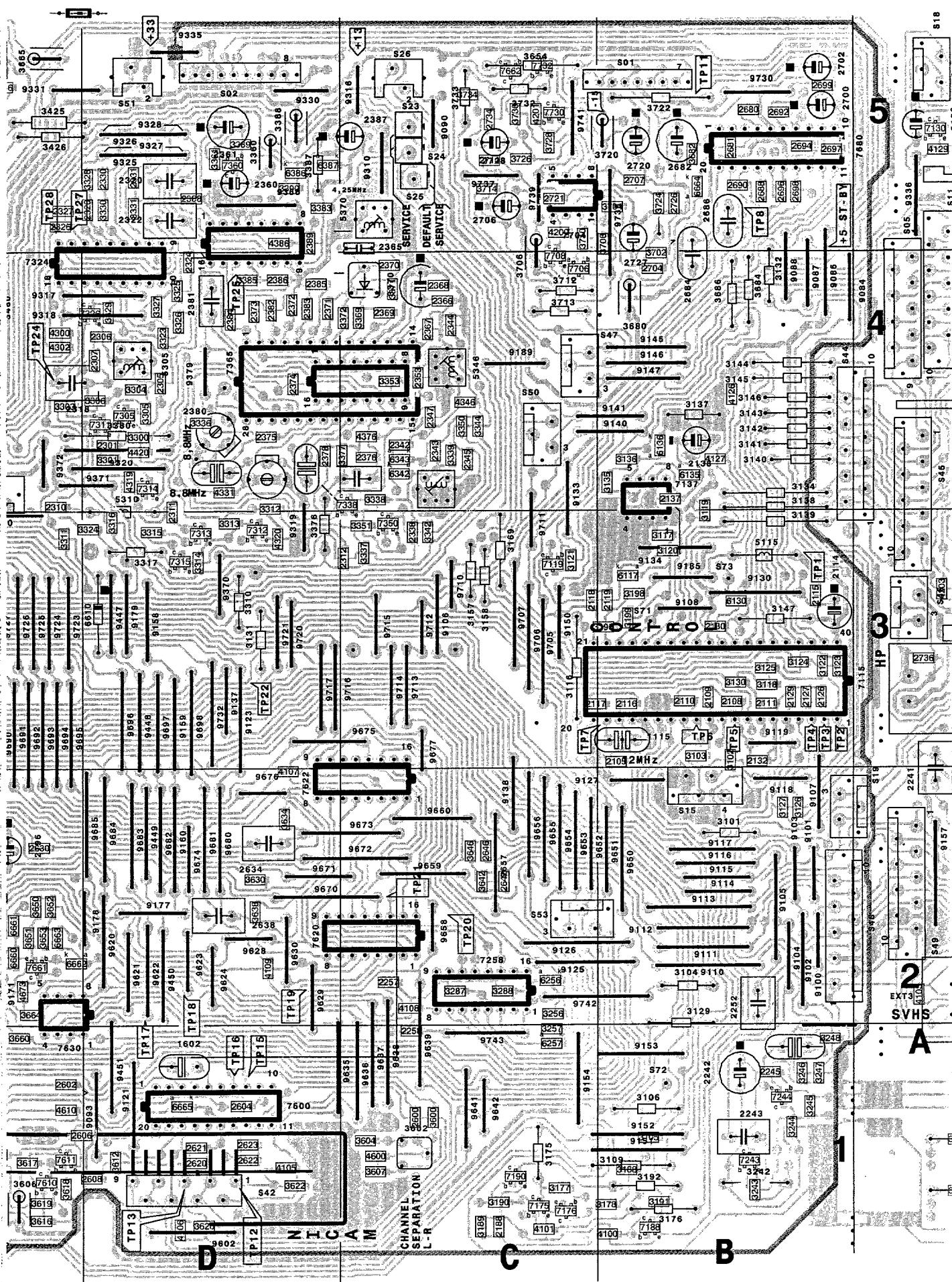
Klein-signal Platine



Platine petits signaux

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6.20



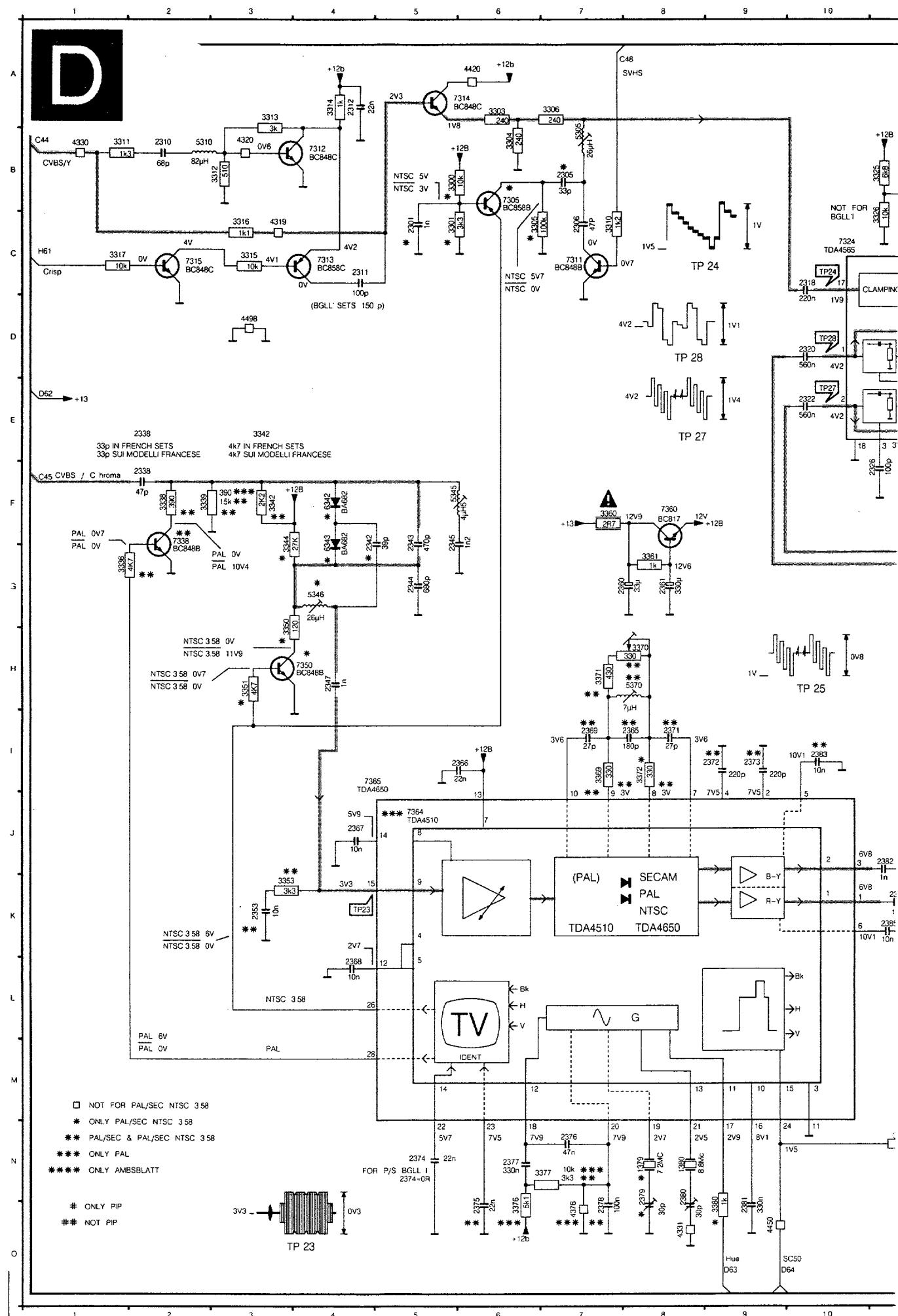
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TP43	F5	2220	G3	2450	E5	3131	D3	3238	G3	3394	G4	3733	C5	6121	F1	7630	D1	9189	C4	9403	F5	9714	C3
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D2B	H1	2225	G2	2452	F5	3134	B4	3240	H3	3396	G5	3996	A1	6135	B4	7660	E2	9192	G2	9405	H5	9716	D3
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EXT2	H4	2228	H2	2454	E5	3136	B4	3242	B1	3398	G5	3998	A1	6163	G1	7662	C5	9195	G2	9409	G5	9720	D3
EXT3	A3	2234	F2	2455	E5	3137	B4	3243	B1	3399	G5	3999	A1	6168	F1	7680	B5	9196	G3	9410	G5	9721	D3
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S17	E4	2252	B2	2606	D1	3146	B4	3253	F3	3451	F5	4109	D2	6280	F2	9088	B4	9209	G2	9444	F5	9737	C5
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Video processing

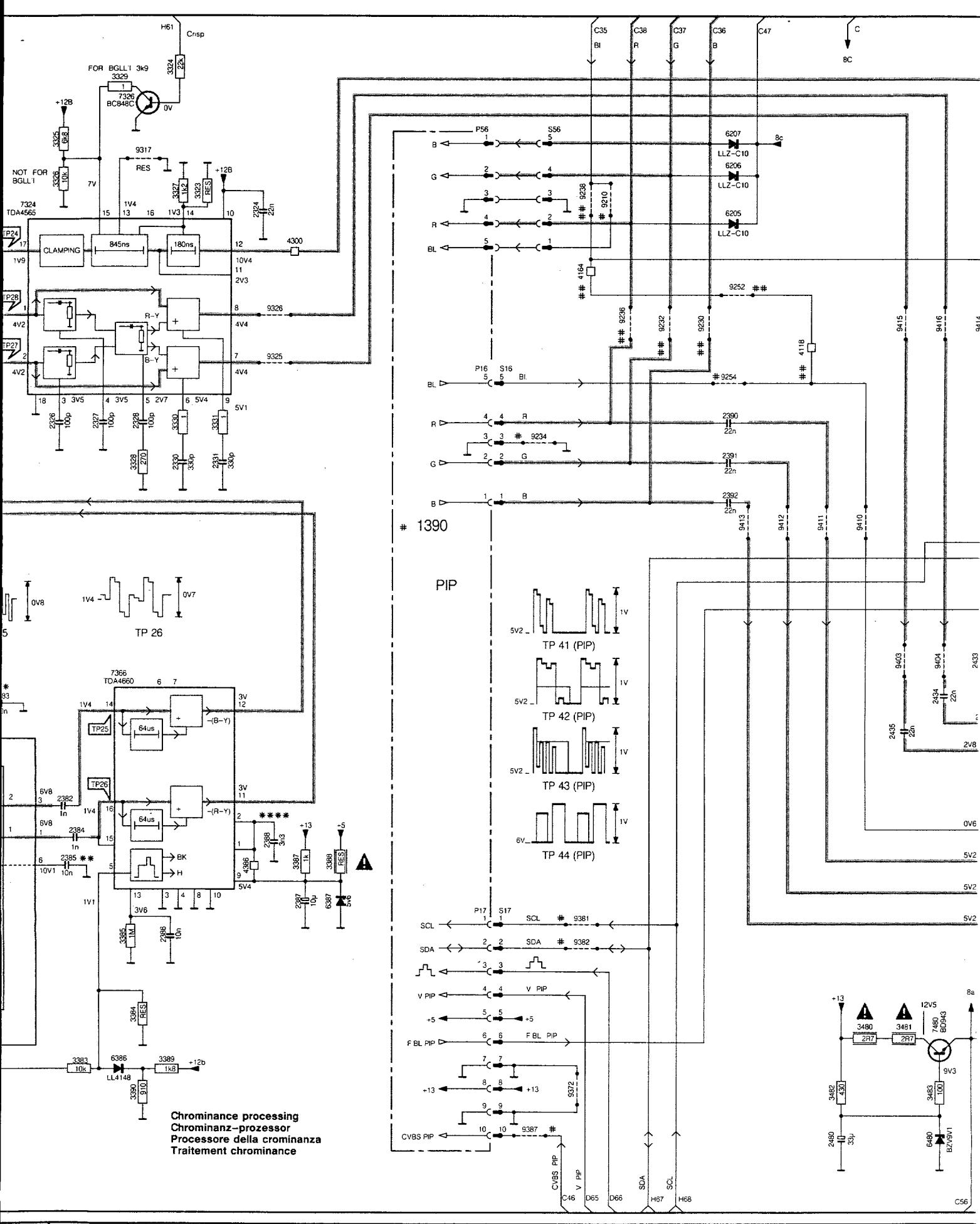
Video Verarbeitung

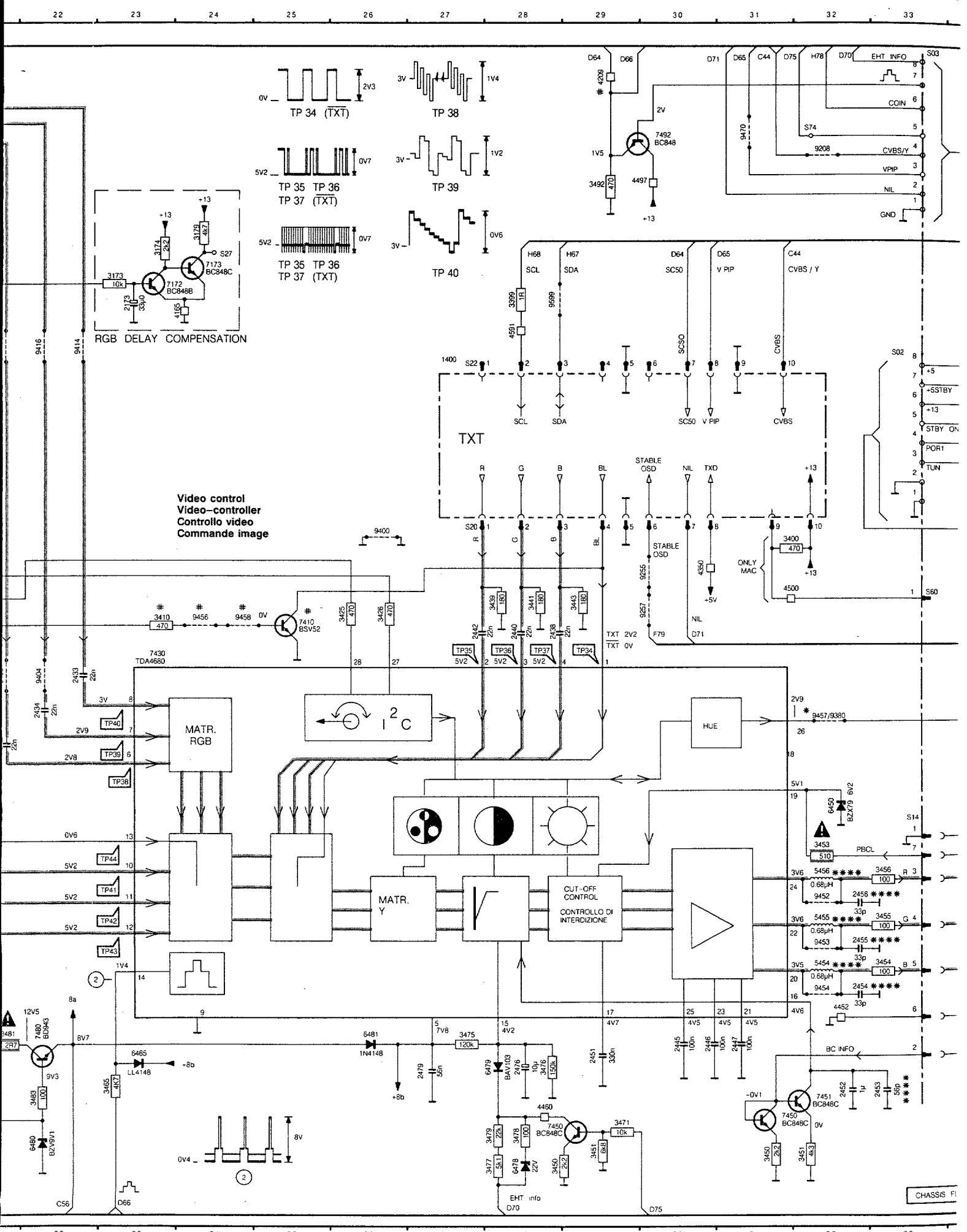
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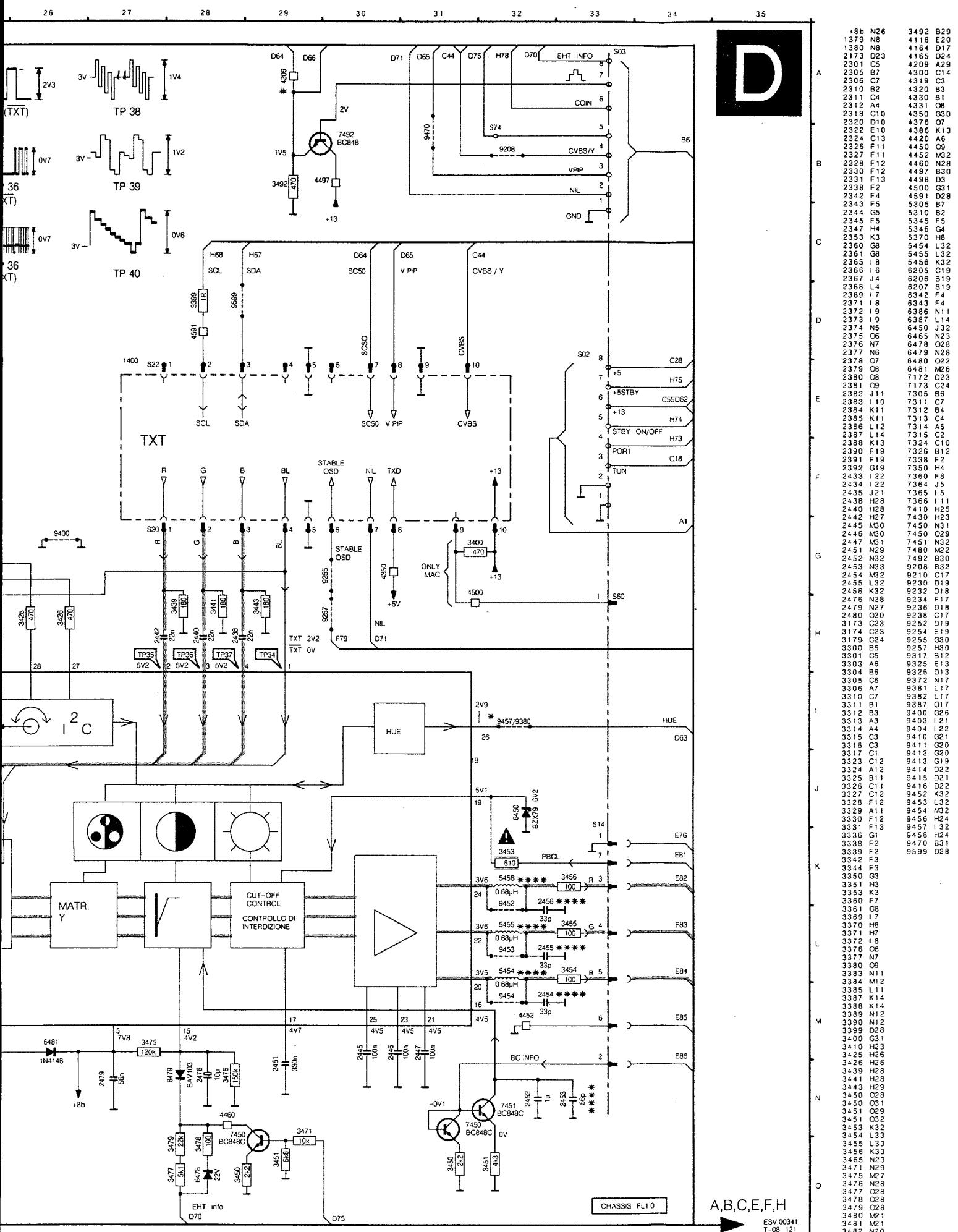
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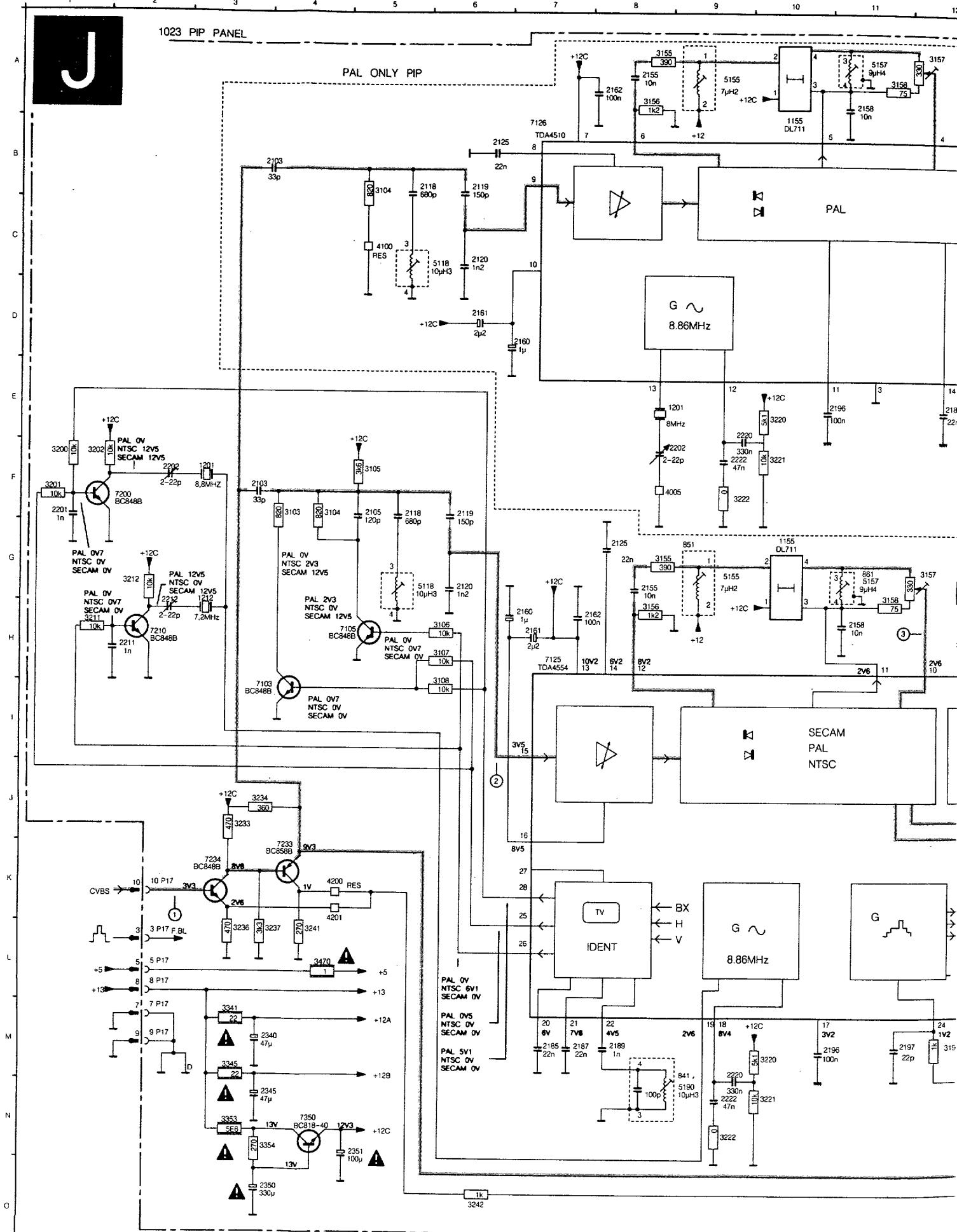
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CHASSIS FL1.0

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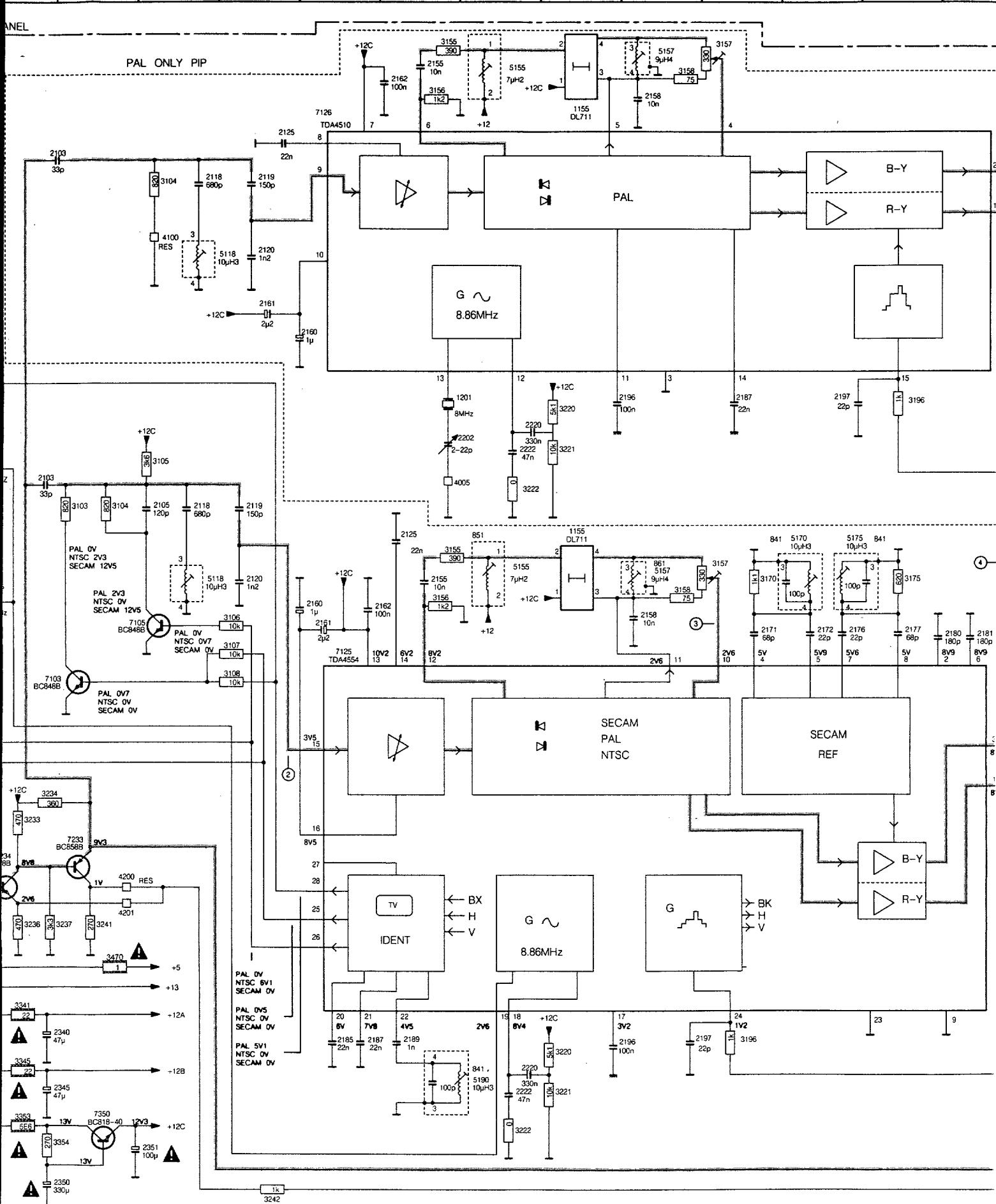
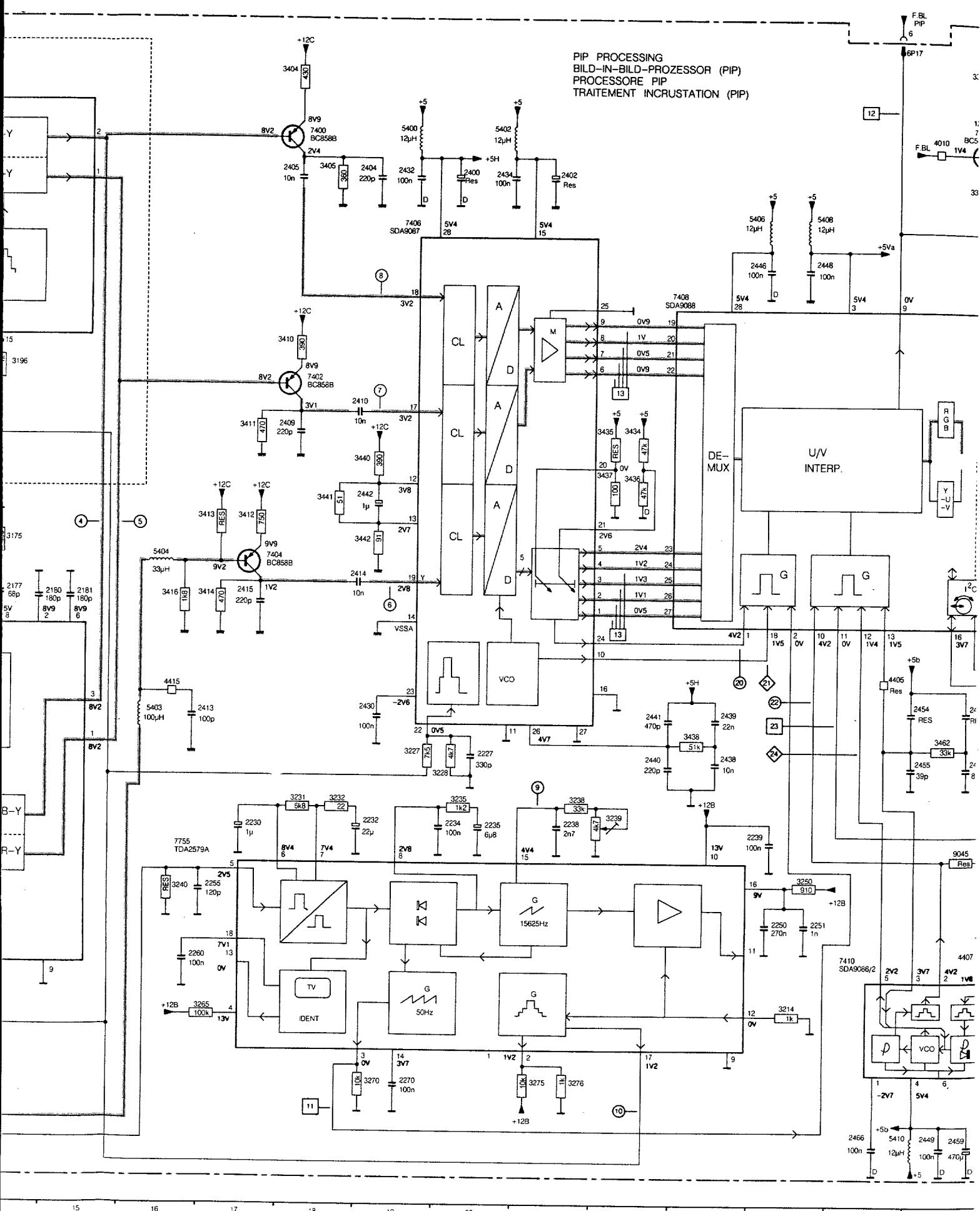
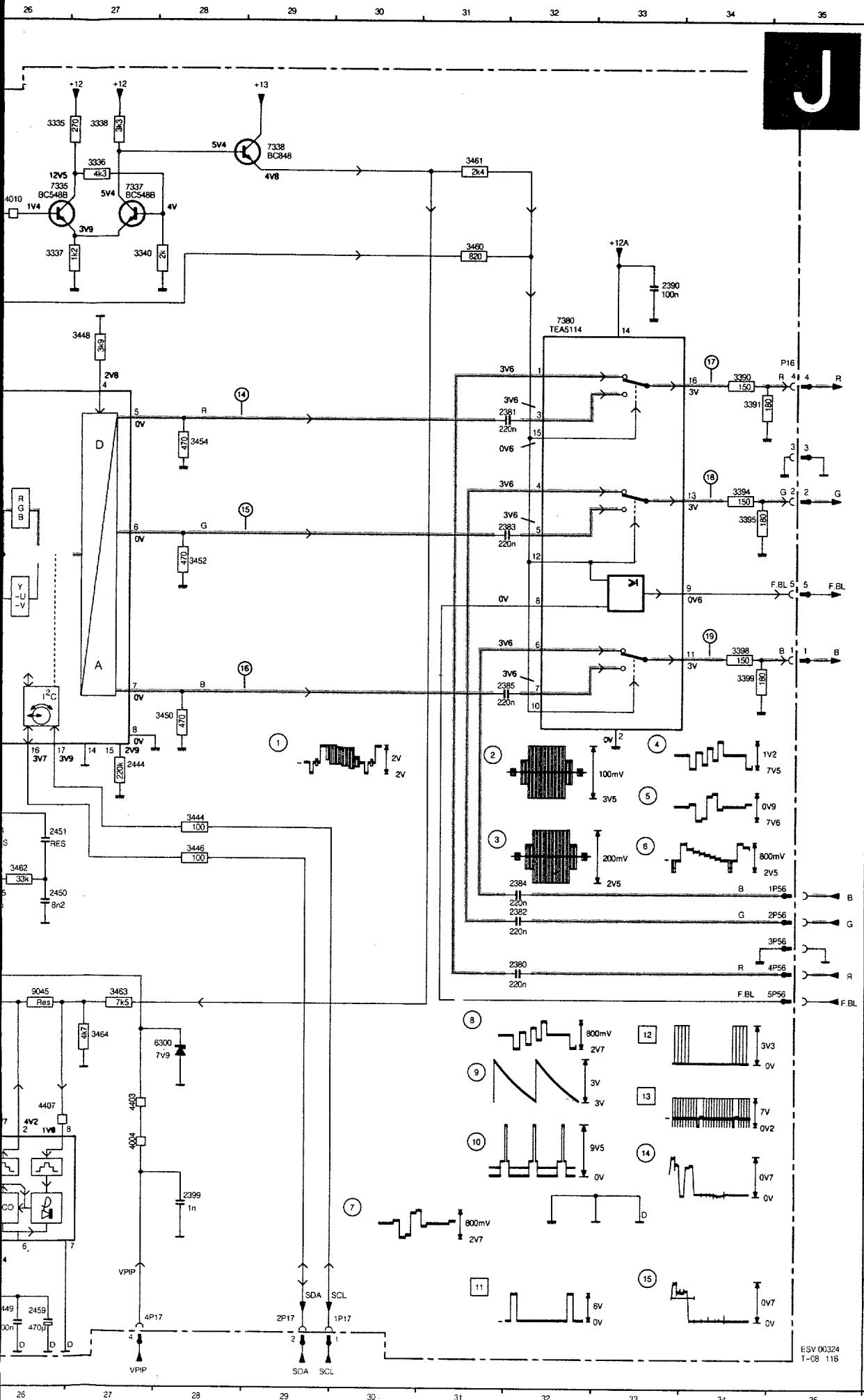


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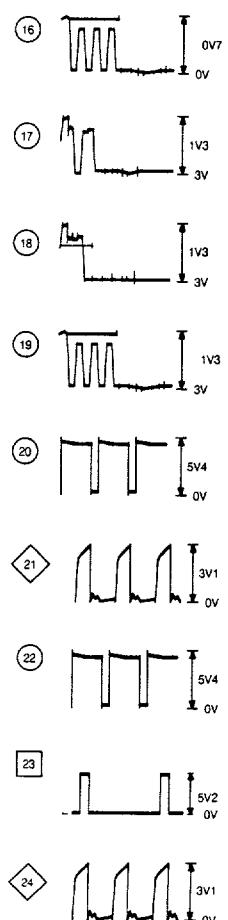
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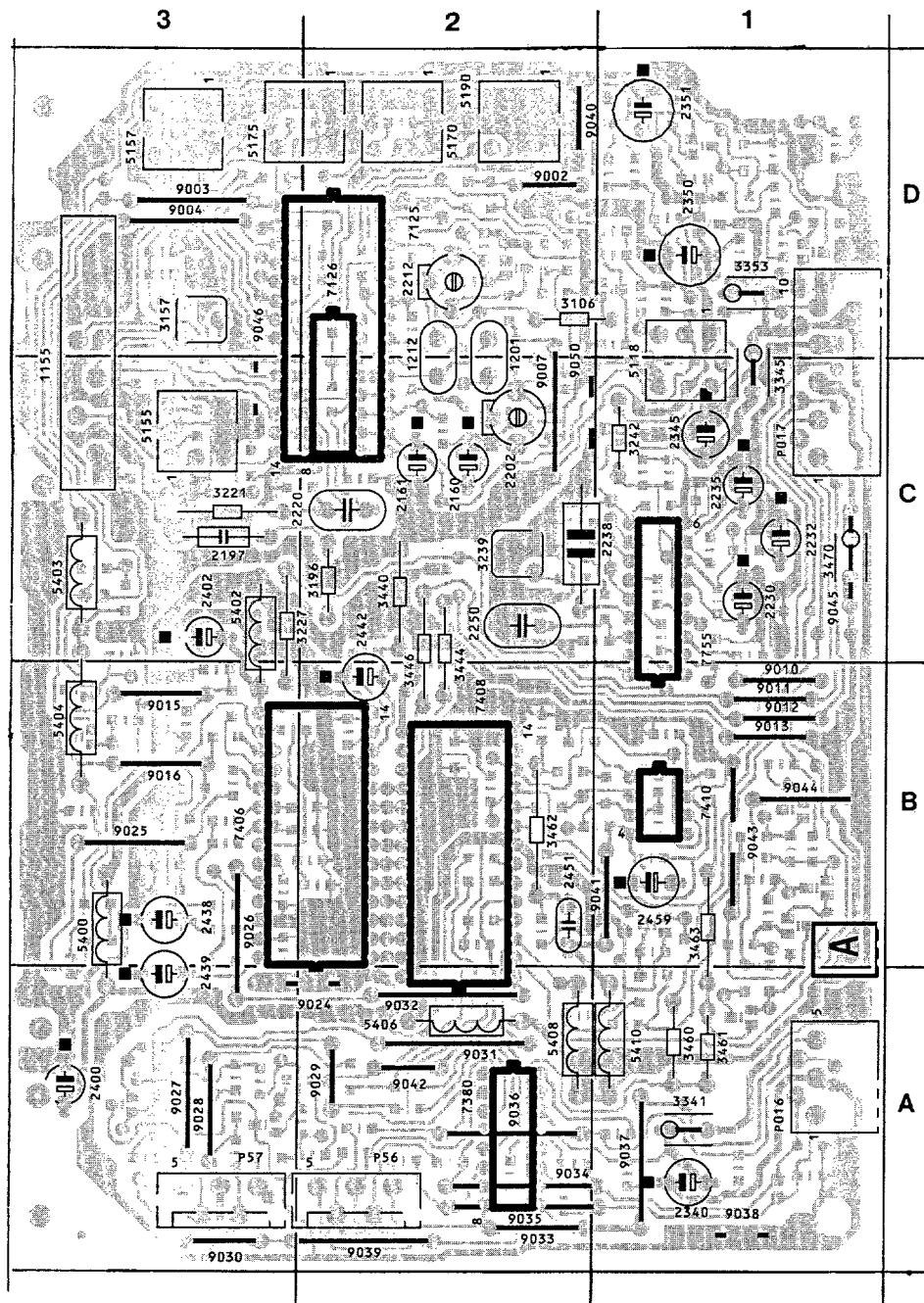
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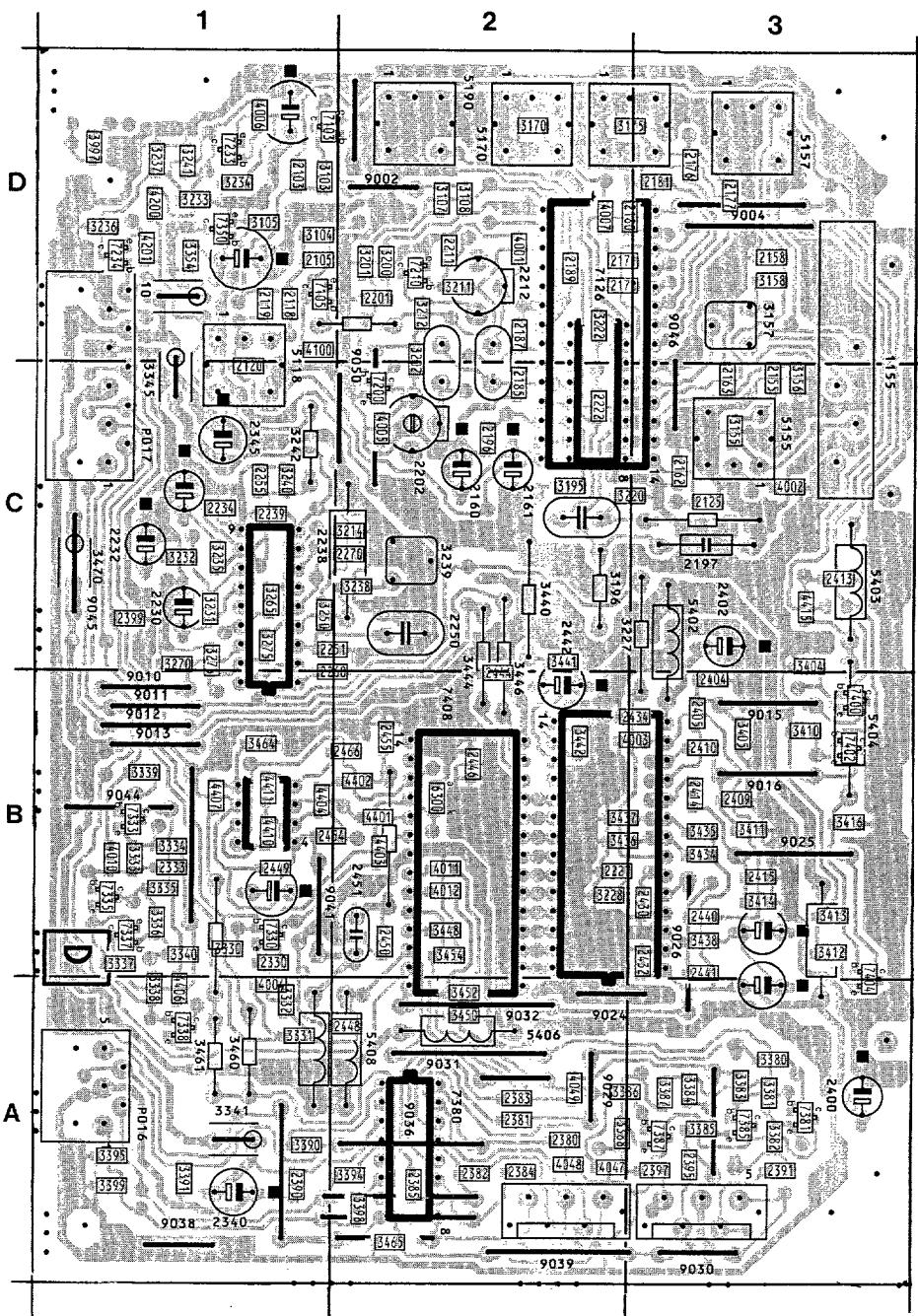
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1205	F5	2440	J22	3411	F17
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1158	F5	2442	K19	3413	G17
2119	B6	2444	I17	3414	H17
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1205	G6	2451	I26	3437	G22
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1205	H11	2466	O25	3442	G18
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2176	H13	3155	G8	3462	J26
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2383	F32	3275	N21	7337	B27
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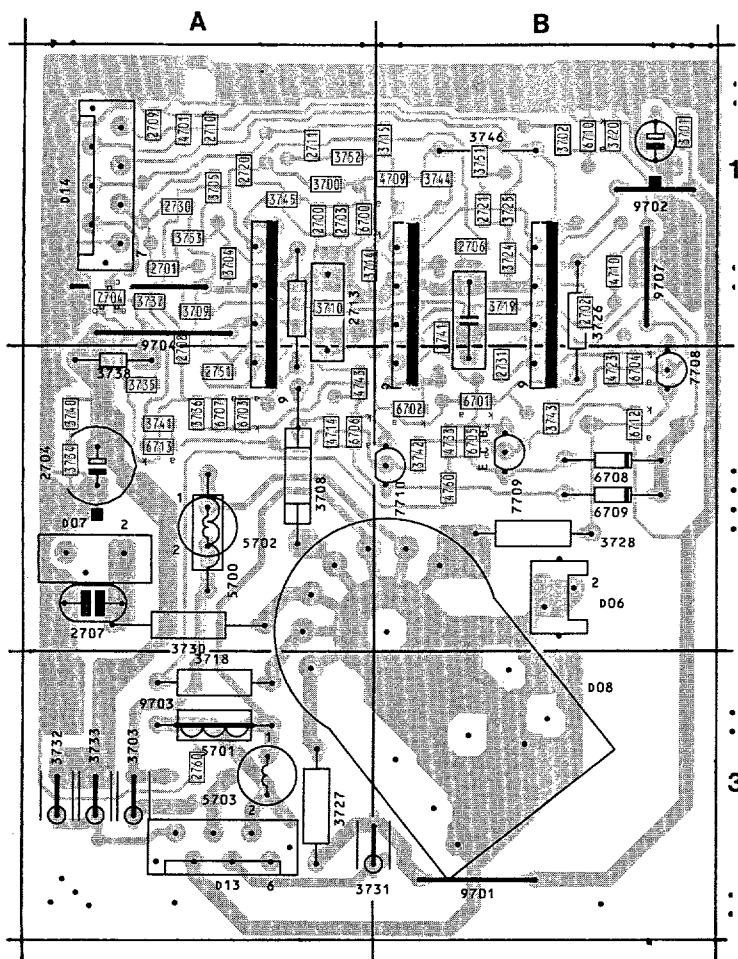


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2161 C2	2440 B3	3338 A1	4048 A2	9024 A2
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2197 C3	3103 D1	3386 A2	4415 C3	9037 A1
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Image dans Image



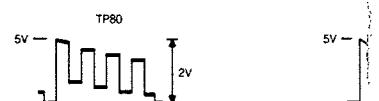
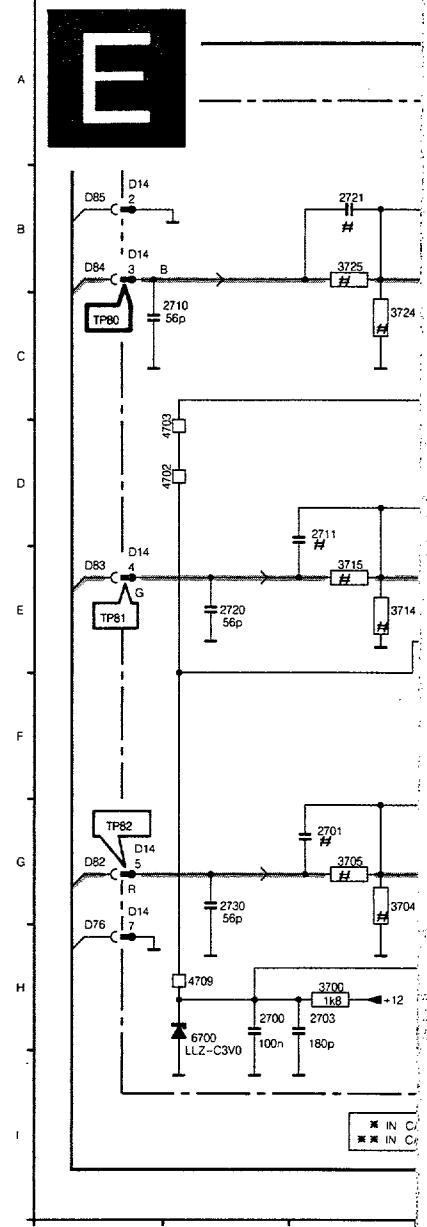
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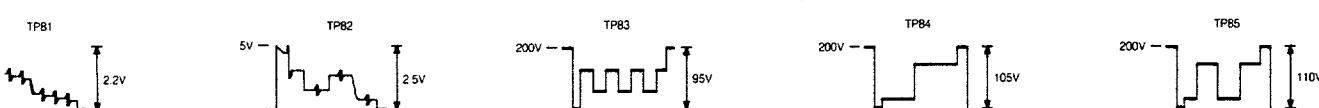
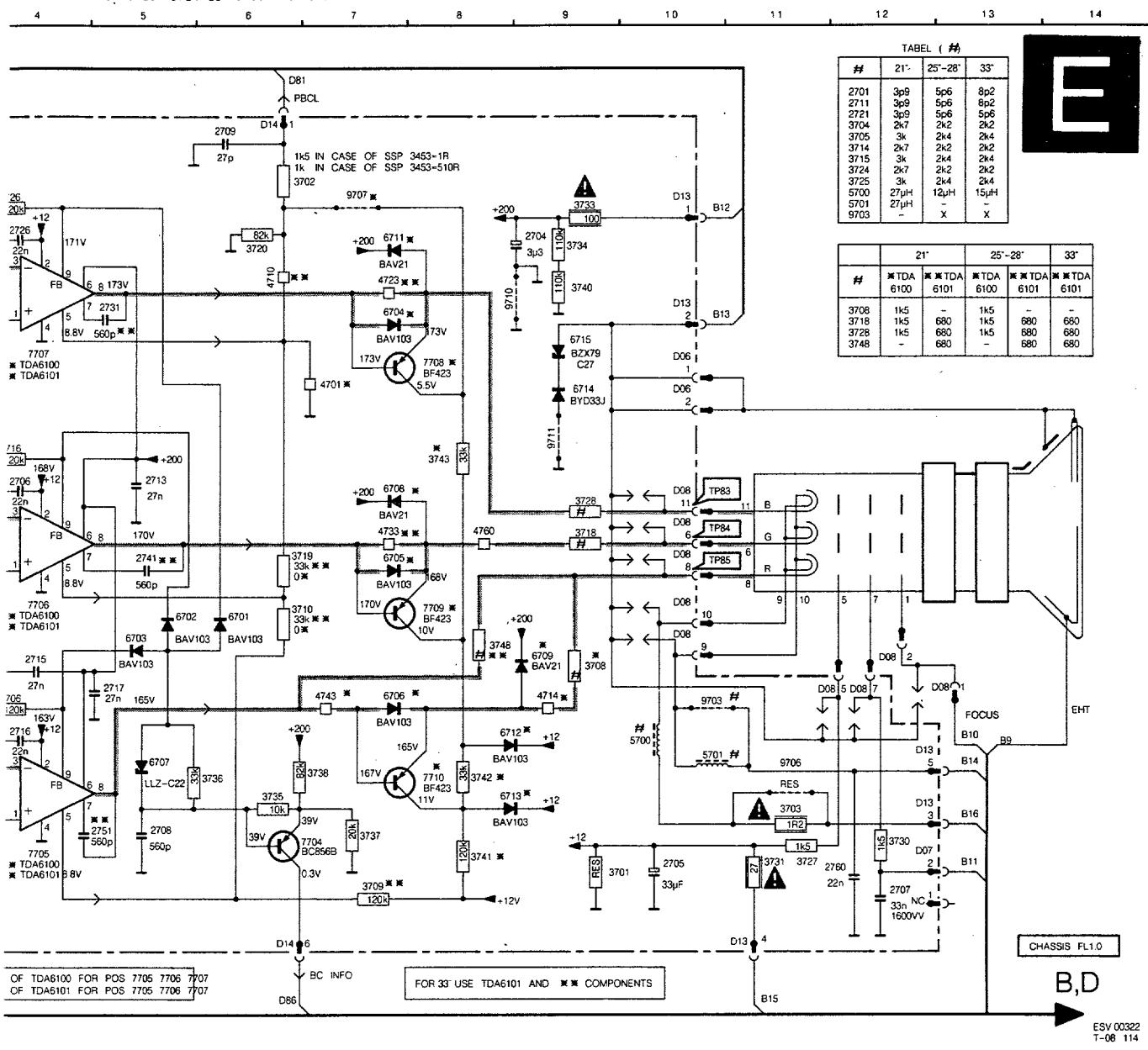
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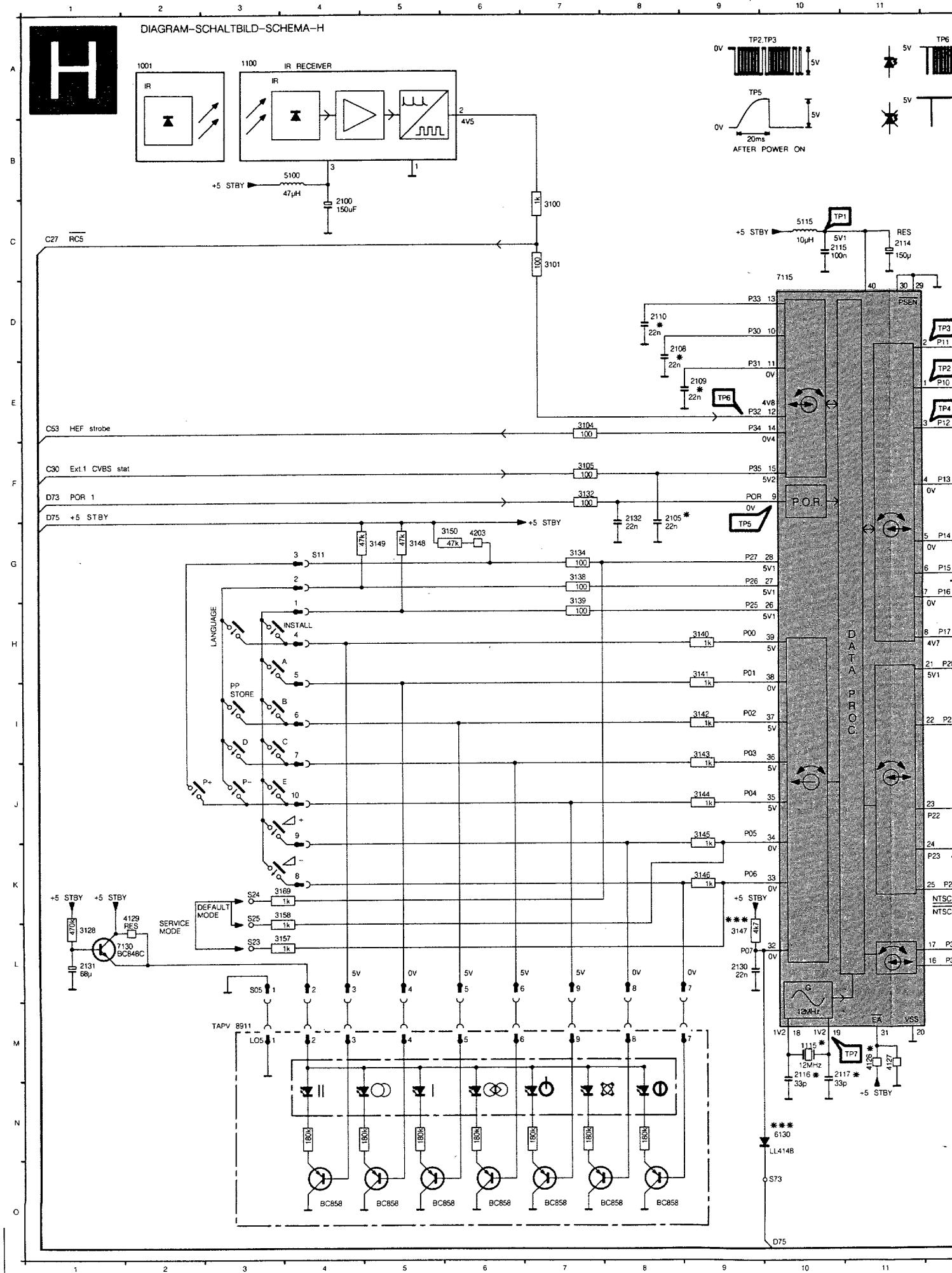
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2704 B9	2709 A6	2716 G4	2730 G2	3700
2705 H10	2710 C2	2717 F5	2731 C5	3701

1 2 3



5 3702 B6 3708 F9 3716 D4 3725 B3 3731 H11 3737 H7 3743 DB 4709 H2 4743 F7 6701 F6 6706 F7 6712 G8 7705 H4 7710 G8
 12 3703 H11 3709 H7 3718 E9 3726 B4 3733 B9 3738 G7 3748 F8 4710 C6 4760 E8 6702 F5 6707 G5 6713 G8 7706 F4 9703 B10
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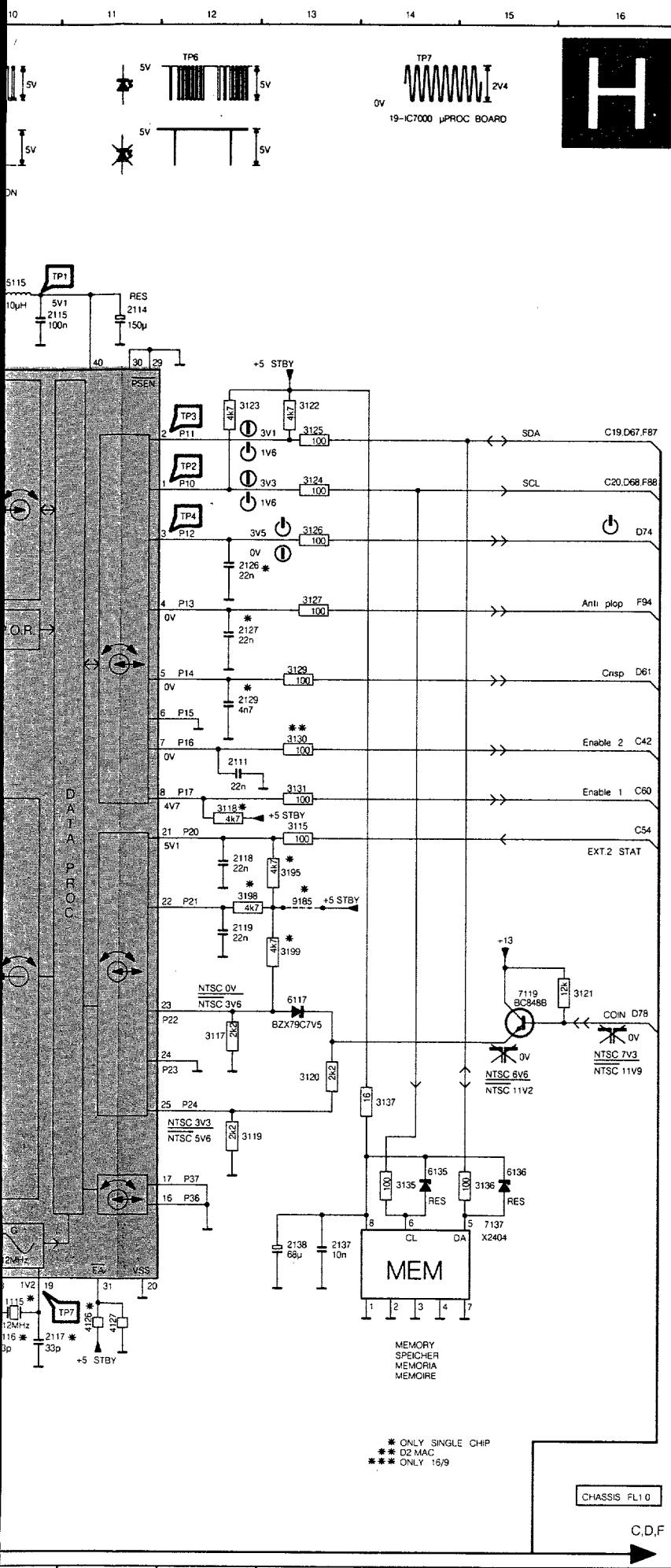




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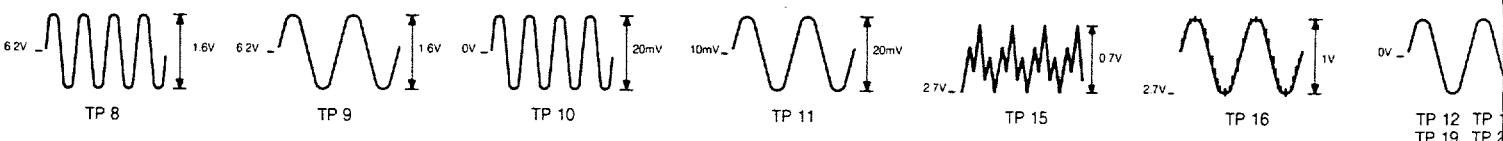
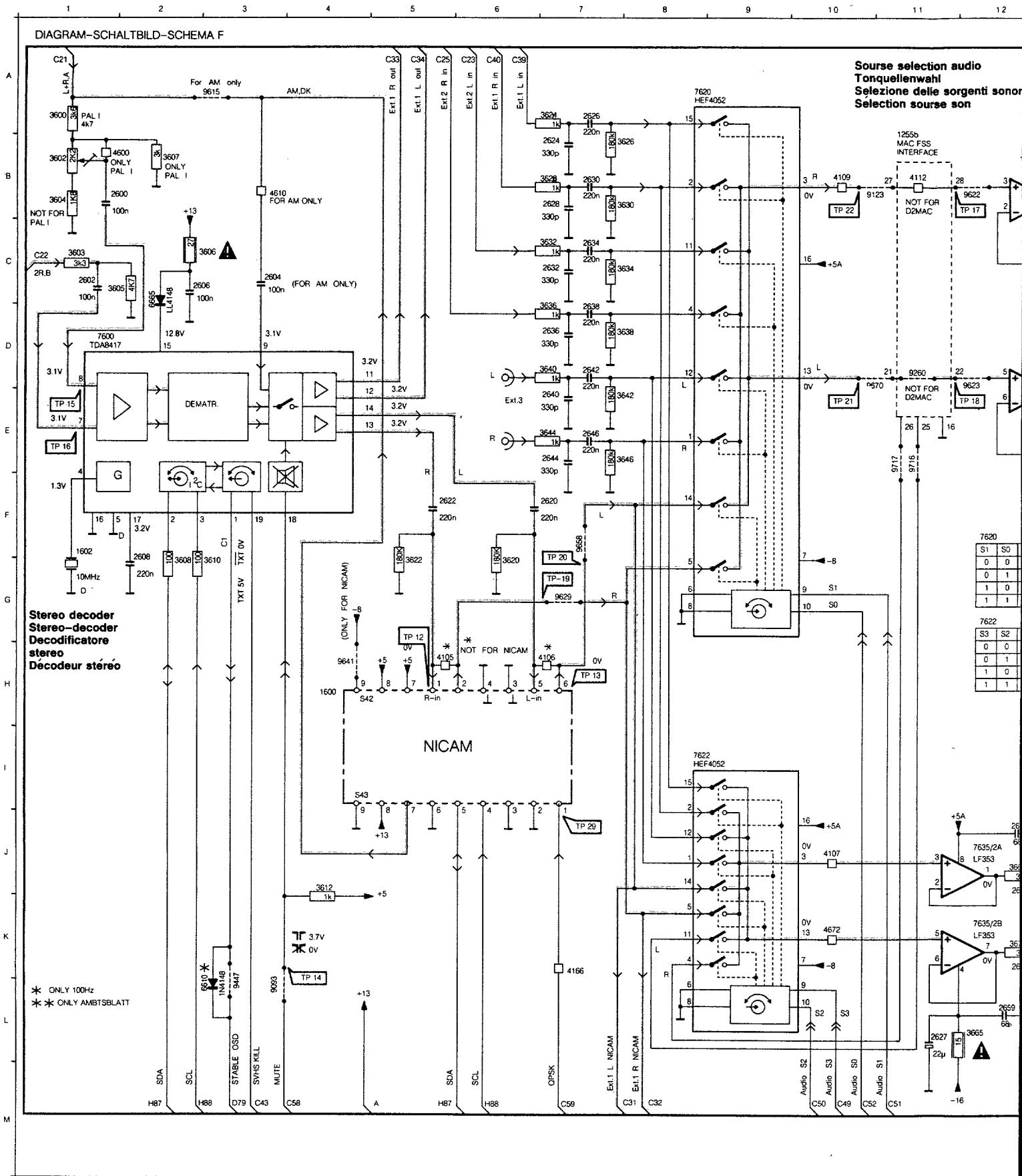
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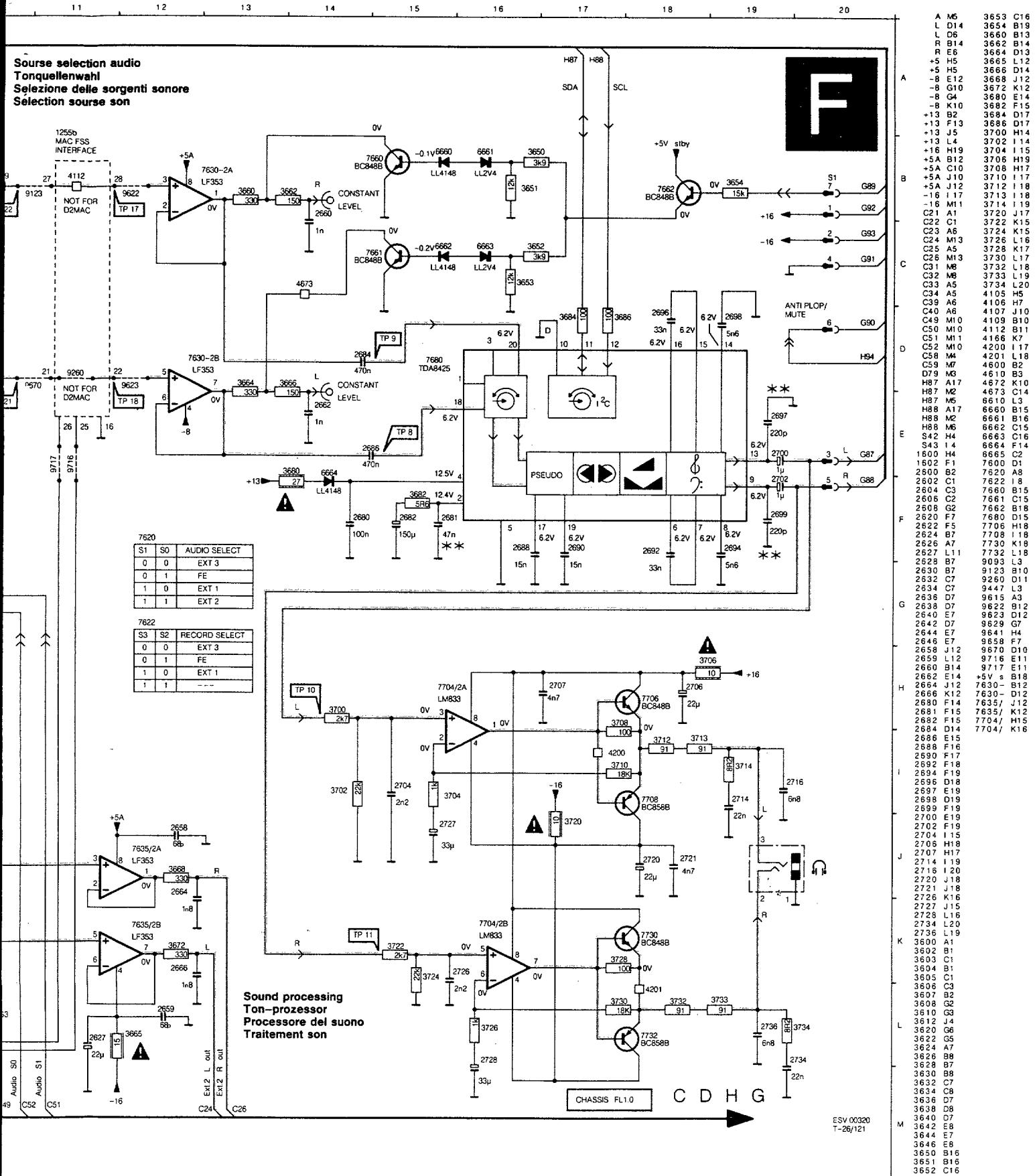


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2108 D8
2109 E9
2110 DB
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2114 C11
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2116 M10
2117 M10
2118 I12
2119 I12
2126 F12
2127 F12
2139 G12
2130 G5
2131 L1
2132 F8
2137 L13
2138 L13
3100 C7
3101 C7
3104 E7
3105 F7
3115 H13
3117 J12
3118 H12
3119 K12
3120 K13
3121 J16
3122 D13
3123 D12
3124 E13
3125 D13
3126 F13
3128 L1
3129 G13
3130 G13
3131 H13
3132 F7
3134 G7
3135 L14
3136 L15
3137 K14
3138 G7
3139 H7
3140 H9
3141 H9
3142 I9
3143 I9
3144 J9
3145 J9
3146 K5
3147 L9
3148 G5
3149 G5
3150 G6
3157 L4
3158 K4
3169 K4
3195 I13
3198 I12
3199 J13
4126 M11
4127 M11
4129 K2
4203 G6
5100 B4
5115 C10
6117 J13
6118 N10
6135 N14
6136 L15
70XX L1
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7119 J15
7137 L15
9185 I13

Control Panel
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4822 212 23747 (SCAN)



Traitement audio

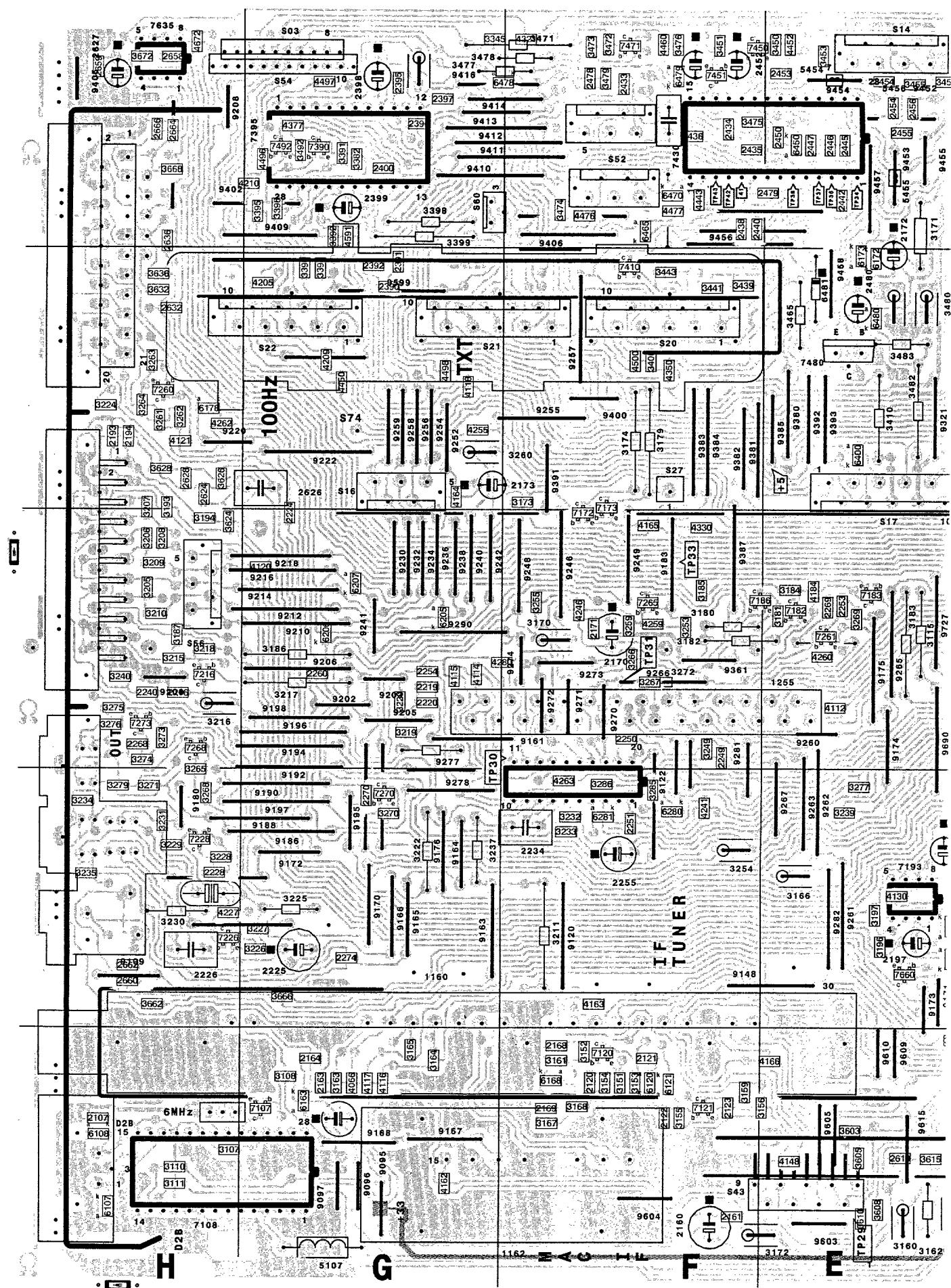


Small signal panel

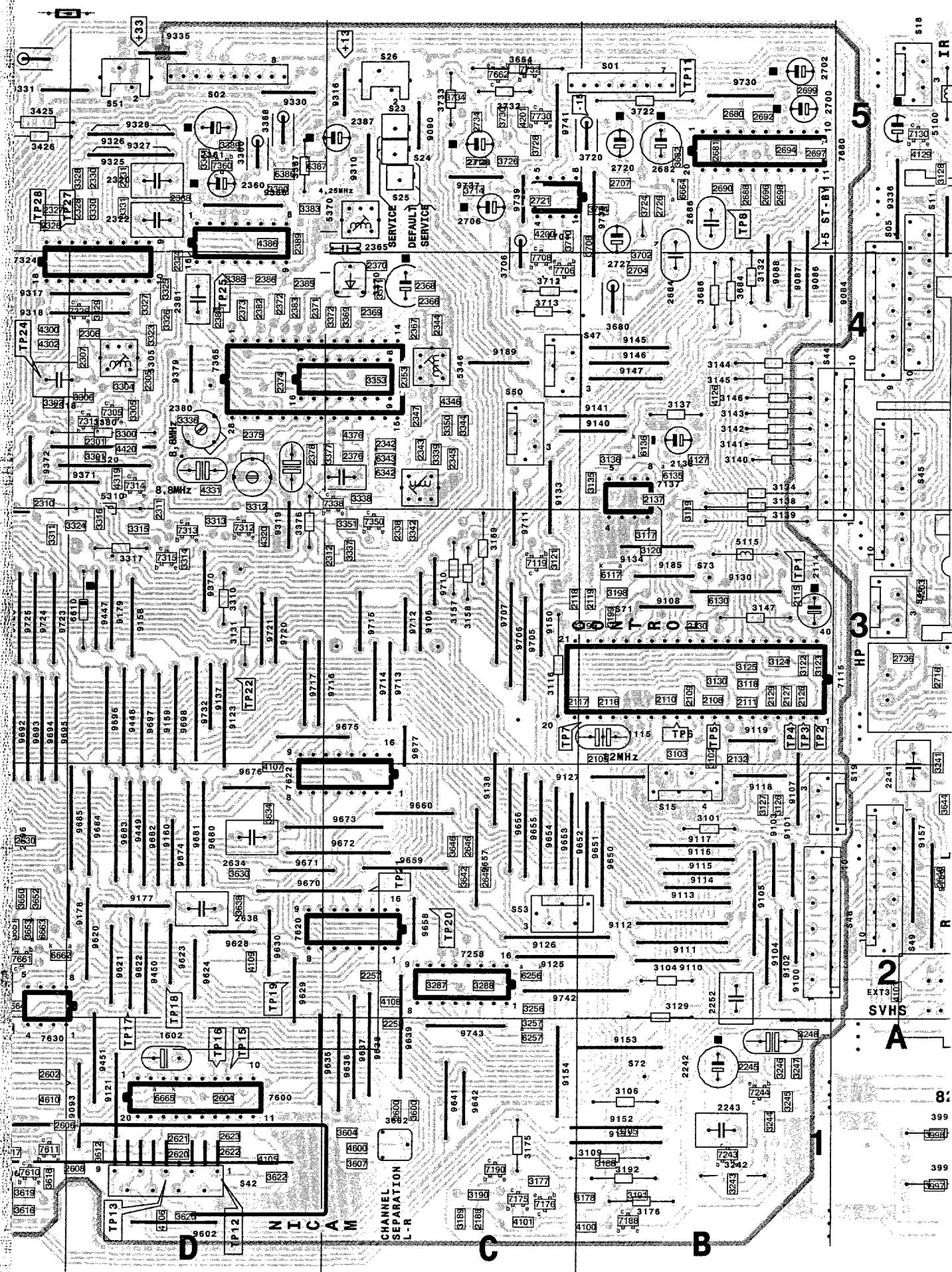
Klein-signal Platine

CHASSIS FL1.0

6.38



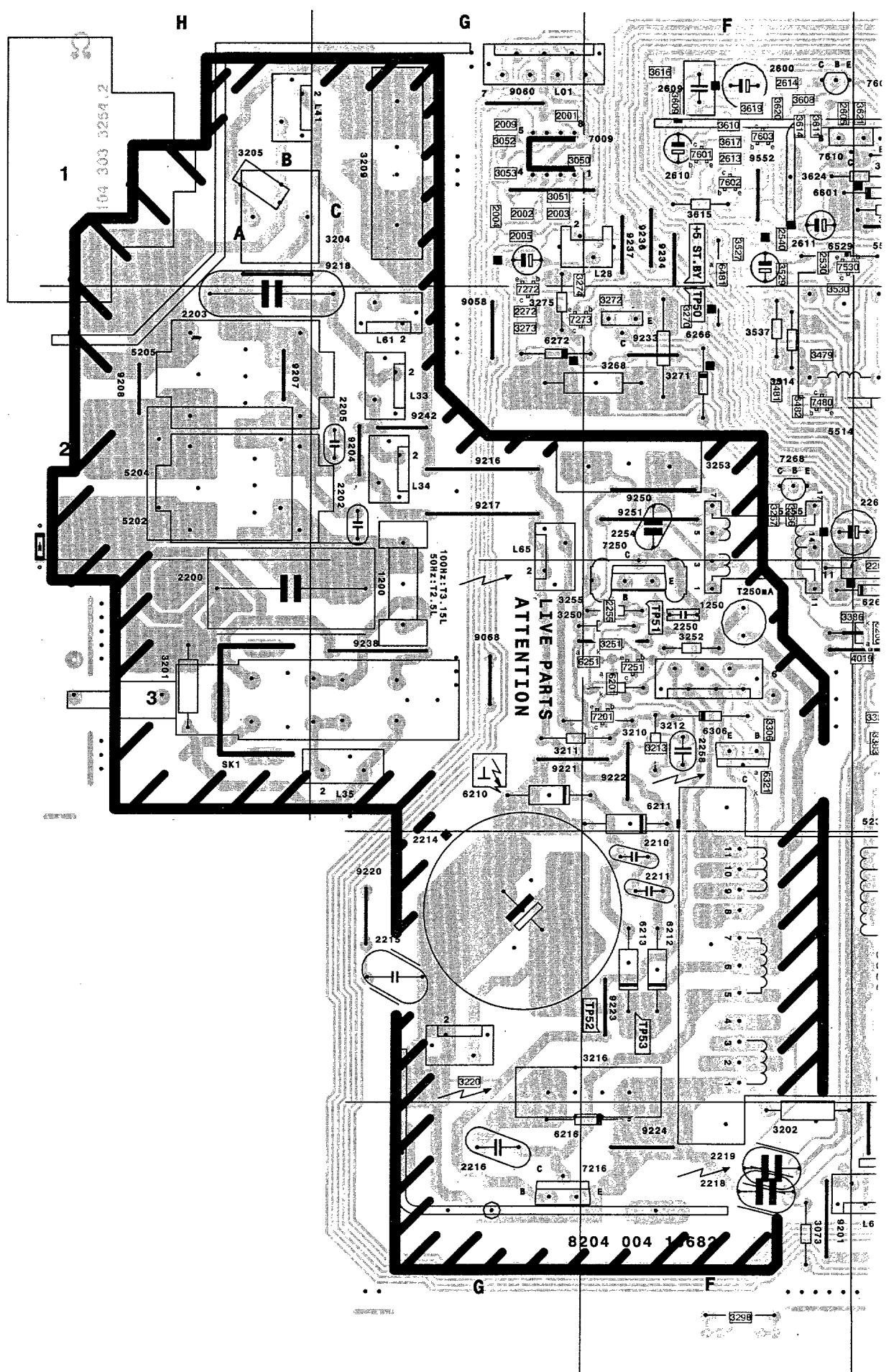
Platine petits signaux



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TP12 D1	2119 B3	2378 D4	2728 C5	3196 E2	3330 D5	3651 E2	4452 E5	7268 H3	9154 C1	9318 D4	9660 C2
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TP14 D1	2121 F1	2380 D4	2736 A3	3198 B3	3336 D4	3653 E2	4476 F5	7273 H3	9156 A2	9320 D4	9671 D2
TP15 D1	2122 F1	2381 D4	3100 A5	3199 B3	3337 C3	3654 C5	4477 F5	7305 D4	9157 A2	9321 E4	9672 C2
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TP18 D2	2127 B3	2384 D4	3103 B3	3207 H3	3342 C3	3664 E2	4498 G4	7313 D3	9160 D2	9327 D5	9675 D3
TP19 D2	2129 B3	2385 D4	3104 B2	3208 H3	3344 C4	3665 E5	4500 F4	7314 D4	9161 G3	9328 D5	9676 D2
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D2B H1	2225 G2	2452 F5	3134 B4	3240 H3	3396 G5	3996 A1	6135 B4	7660 E2	9192 G2	9405 H5	9716 D3
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S57											

Large signal panel

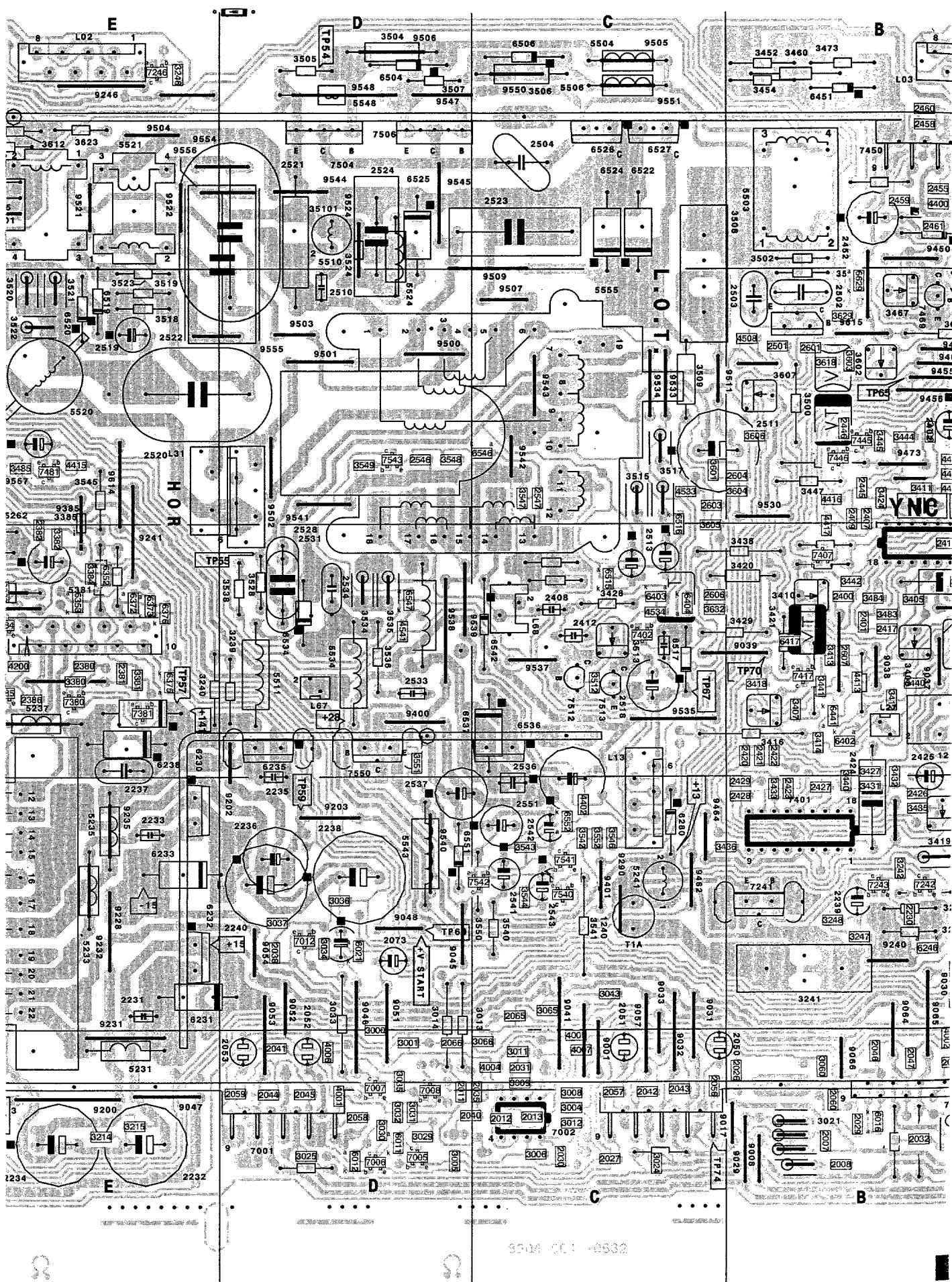
Groß-signal Platine



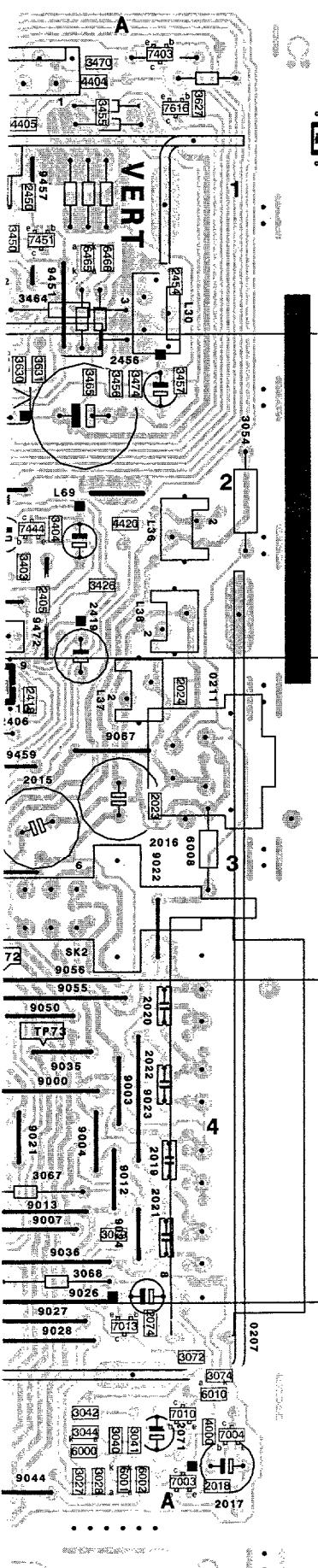
Platine forts signaux

CHASSIS FL1.0

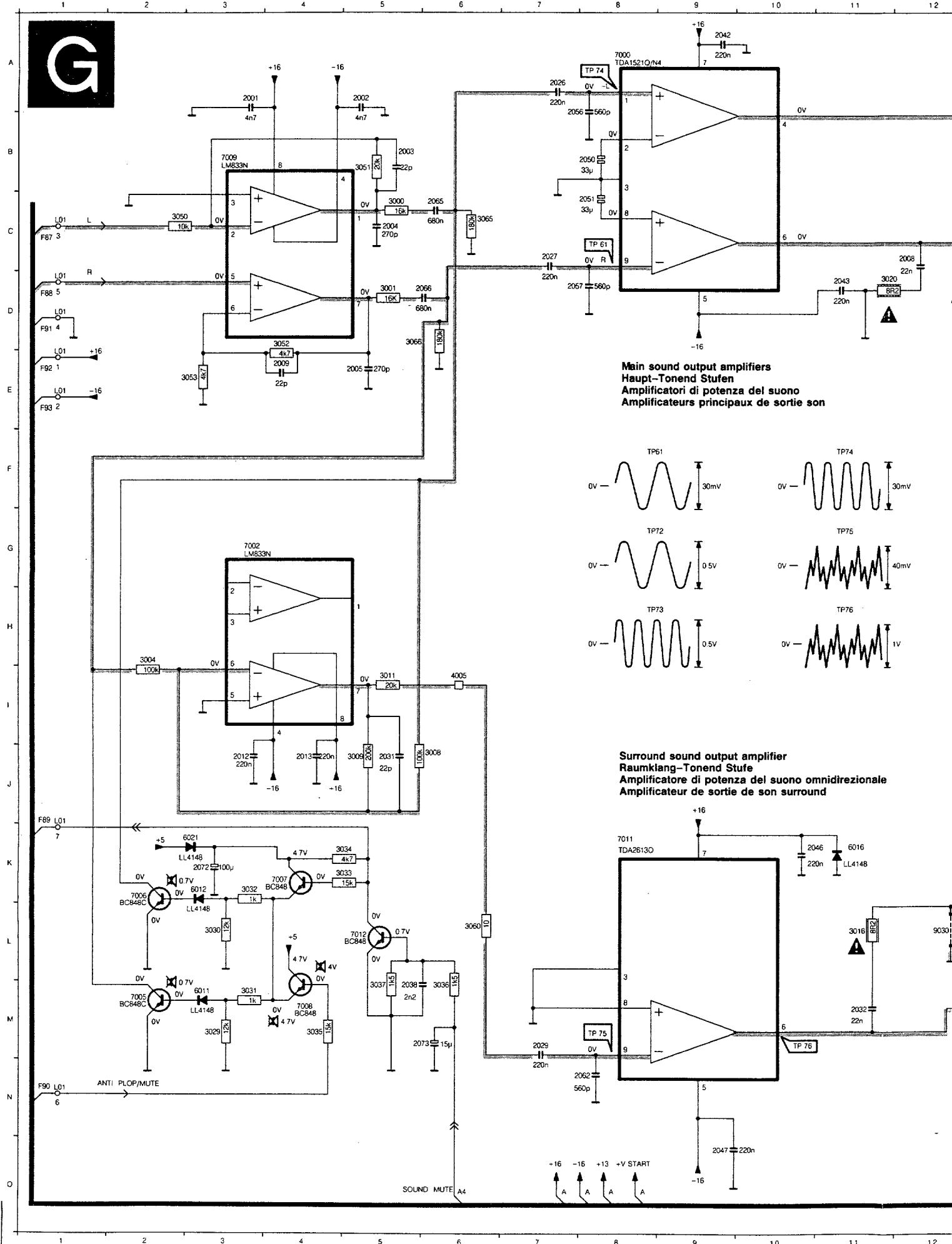
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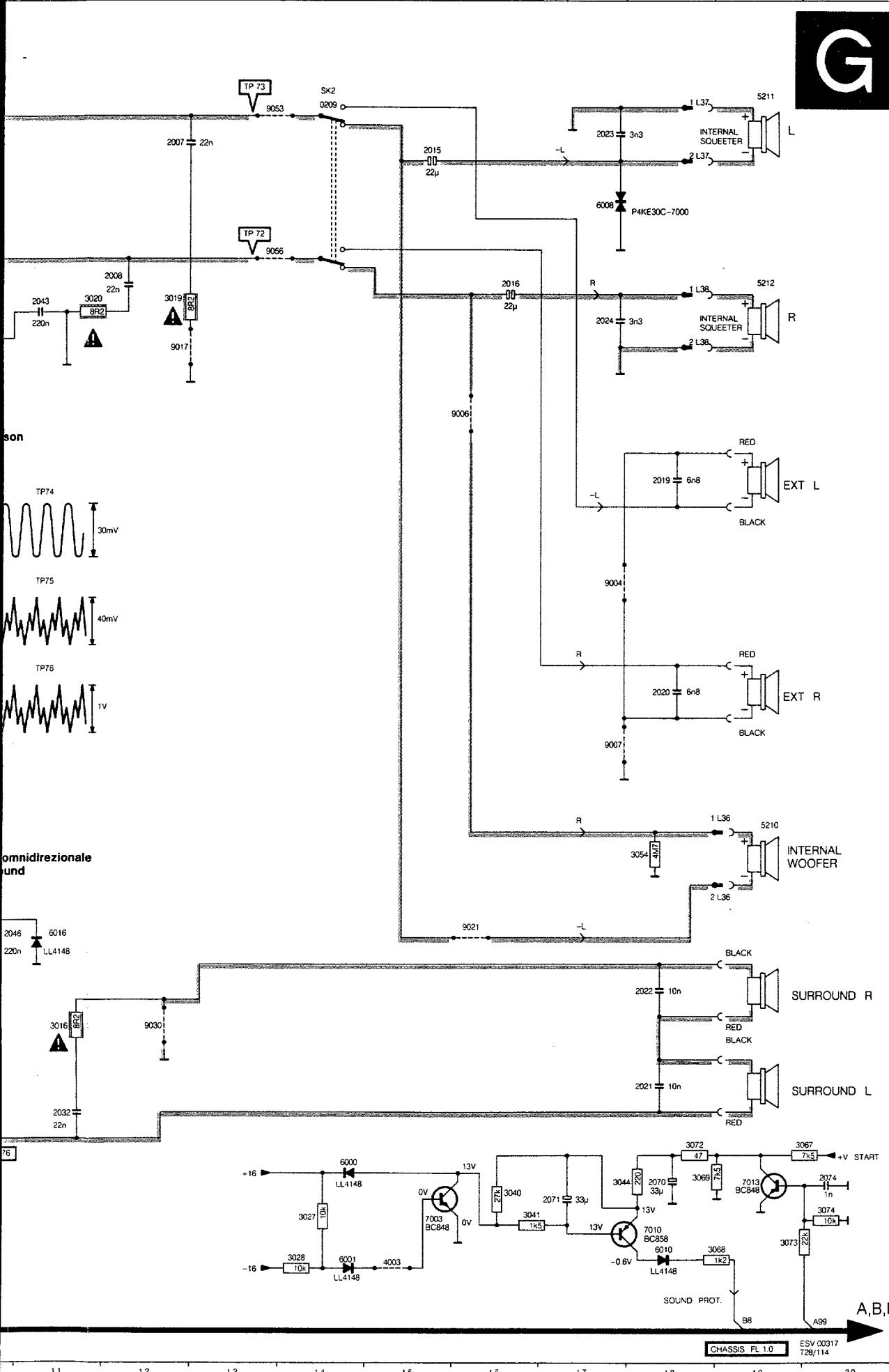


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TP60 D4	2058 D5	2457 A2	3066 C5	3404 A2	3530 F2	5506 C1	6537 C3	9023 A4	9471 B2
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TP67 C3	2071 A5	2502 B2	3201 H3	3411 B3	3538 D3	5526 E1	6629 B2	9030 B4	9504 E1
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TP75 B5	2210 F4	2518 C3	3213 F3	3419 B4	3547 C2	6002 A5	7007 D5	9038 B3	9522 E1
TP76 B5	2211 F4	2519 E2	3214 E5	3420 B3	3548 D2	6008 A3	7008 D5	9039 B3	9524 D1
TP77 A5	2214 G4	2520 E2	3215 E5	3421 B3	3549 D2	6010 A5	7009 G1	9041 C4	9529 D3
0207 A4	2215 G4	2521 D1	3216 F4	3422 B3	3550 C4	6011 D5	7010 A5	9042 C4	9530 B2
0211 A3	2216 G5	2522 D1	3220 G4	3424 B2	3551 D3	6012 D5	7011 B5	9043 D5	9533 C2
039 H5	2218 F5	2523 C1	3239 D3	3426 A2	3552 C4	6016 B5	7012 D4	9044 A5	9534 C2
040 H4	2219 F5	2524 D1	3240 E3	3427 B3	3601 C2	6021 D4	7013 A5	9045 D4	9535 C3
L01 F1	2230 B4	2528 D3	3241 B4	3428 C3	3602 B2	6201 F3	7201 F3	9046 D4	9537 C3
L02 E1	2231 E4	2529 F1	3242 B4	3429 B3	3603 B2	6210 G3	7216 G5	9047 E5	9538 D3
L03 A1	2232 E5	2530 F1	3243 B4	3431 B4	3604 B2	6211 F3	7241 B4	9048 D4	9539 D3
L13 C4	2233 E4	2531 D3	3244 B4	3432 B4	3605 C3	6212 F4	7242 B4	9050 A4	9540 D4
L27 B3	2234 E5	2533 D3	3245 B4	3433 B4	3606 B2	6213 F4	7243 B4	9051 D4	9541 D2
L28 G1	2235 D3	2534 D3	3246 E1	3434 B4	3607 B2	6216 F5	7246 E1	9052 D4	9542 C2
L30 A1	2236 D4	2535 C4	3247 B4	3435 B4	3608 F1	6230 E4	7250 F3	9053 D5	9543 C2
L31 E2	2237 E3	2536 C4	3248 B4	3436 B4	3609 F1	6231 E4	7251 F3	9054 D4	9544 D1
L33 G2	2238 D4	2537 D4	3249 F3	3437 A1	3610 F1	6232 E4	7268 F2	9055 A4	9545 D1
L34 G2	2239 B4	2540 F1	3250 F3	3438 B3	3611 F1	6233 E4	7270 F2	9056 A3	9547 D1
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L36 A2	2250 F3	2542 C4	3252 F3	3440 B4	3614 F1	6237 E3	7273 G2	9058 G2	9549 E1
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L39 F3	2258 F3	2547 C2	3266 F2	3444 B2	3617 F1	6251 F3	7312 H5	9064 B5	9552 F1
L40 E3	2260 E3	2551 C4	3267 F2	3445 B2	3618 B2	6260 E3	7318 H5	9065 B4	9554 D1
L41 H1	2261 E3	2600 F1	3268 F2	3446 B2	3619 F1	6262 E3	7320 H4	9066 B5	9555 E2
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L62 E5	2263 E2	2603 C2	3271 F2	3450 A1	3621 E1	6272 G2	7360 H4	9068 G3	9557 E2
L65 G2	2270 G1	2604 B2	3272 F2	3451 A1	3622 E1	6280 C4	7369 H4	9200 E5	9601 E1
L67 D3	2272 G2	2605 F1	3273 G2	3452 B1	3623 E1	6302 H5	7370 H4	9201 F5	9614 E2
L68 C3	2302 H5	2606 C3	3274 G1	3454 B1	3624 E1	6303 H5	7371 H4	9202 D3	9615 B2
L69 A2	2303 H5	2607 B3	3275 G2	3455 A1	3625 E1	6304 H5	7380 E3	9203 D4	
L80 G4	2308 H5	2609 F1	3298 F5	3456 A2	3626 B2	6306 F3	7381 E3	9204 G2	
SK1 G3	2321 H5	2610 F1	3299 F5	3457 A2	3627 A1	6308 H5	7384 E3	9207 H2	
SK2 B3	2331 H4	2611 F1	3300 H5	3458 A1	3628 A1	6312 H5	7385 E3	9208 H2	
1200 G3	2351 H4	2613 F1	3304 H5	3459 A1	3629 B2	6315 H5	7400 B3	9216 G2	
1240 C4	2360 H4	2614 F1	3305 H5	3460 B1	3630 A2	6318 H5	7401 B4	9217 G2	
1250 F3	2361 H4	3000 D4	3306 F3	3461 A1	3631 A2	6319 H5	7402 C3	9218 H1	
2001 G1	2365 H4	3001 D5	3308 H5	3462 A1	3632 C3	6321 F3	7403 A1	9219 E3	
2002 G1	2372 H4	3002 B5	3309 H5	3463 A1	4000 A5	6331 H4	7407 B3	9220 G4	
2003 G1	2374 H4	3003 B5	3310 H5	3464 A1	4001 D5	6349 H4	7417 B3	9221 G3	
2004 G1	2376 H4	3004 C5	3311 H5	3465 A2	4002 B5	6350 H4	7444 A2	9222 F3	
2005 G1	2380 E3	3005 D5	3312 H5	3466 A1	4004 C5	6351 H4	7445 B2	9223 F4	
2007 B5	2381 E3	3006 C5	3313 H5	3467 B2	4005 C5	6352 E3	7446 B2	9224 F5	
2008 B5	2382 E3	3008 C5	3314 H5	3468 A2	4006 D5	6353 E3	7450 A1	9225 E3	
2009 G1	2386 E3	3009 C5	3315 H5	3469 A1	4007 C5	6355 H4	7451 A1	9228 E4	
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2012 C5	2401 B3	3012 C5	3320 H4	3473 B1	4200 E3	6357 H4	7480 F2	9230 F3	
2013 C5	2402 B2	3013 D4	3321 H4	3474 A2	4400 B1	6370 H4	7481 E2	9231 E5	
2015 A3	2403 A2	3014 D4	3322 H5	3479 F2	4402 C4	6371 H4	7501 B2	9232 E4	
2016 A3	2404 A2	3016 B5	3331 H4	3480 B1	4403 B1	6372 E3	7504 D1	9233 F2	
2017 A5	2405 A2	3019 B5	3332 H4	3481 F2	4404 A1	6373 E3	7506 D1	9234 F1	
2018 A5	2406 B3	3020 B5	3350 H4	3482 F2	4405 A1	6375 E3	7512 C3	9235 E4	
2019 A4	2407 B2	3021 B5	3351 H4	3483 B3	4410 B2	6376 E3	7513 C3	9236 F1	
2020 A4	2408 C3	3022 B5	3356 H4	3484 B3	4411 B2	6402 B3	7530 F1	9237 F1	
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2022 A4	2410 B2	3024 C5	3358 H4	3500 B2	4413 B3	6404 C3	7541 C4	9240 B4	
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2024 A3	2412 C3	3026 D5	3362 H4	3503 B2	4416 B2	6440 B3	7543 D2	9242 G2	
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2031 C5	2420 B3	3032 D5	3370 H4	3509 C2	4541 D3	6466 A1	7610 E1	9300 H5	
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2038 D4	2423 B4	3035 D5	3374 H4	3513 C3	5205 H2	6504 D1	9000 A4	9400 D3	
2040 D5	2424 B4	3036 D4	3375 H4	3514 F2	5230 F4	6506 C1	9001 C5	9401 C4	
2041 D5	2425 B4	3037 D4	3376 E3	3515 C2	5231 E5	6515 C3	9003 A4	9450 B1	
2042 C5	2426 B4	3040 A5	3378 H4	3516 C2	5233 E4	6516 C2	9004 A4	9451 A1	
2043 C5	2427 B4	3041 A5	3380 E3	3517 C2	5235 E4	6517 C3	9006 A3	9453 B2	
2044 D5	2428 B4	3042 A5	3381 E3	3518 E2	5237 E3	6519 E2	9007 A4	9454 B2	



Amplification final audio

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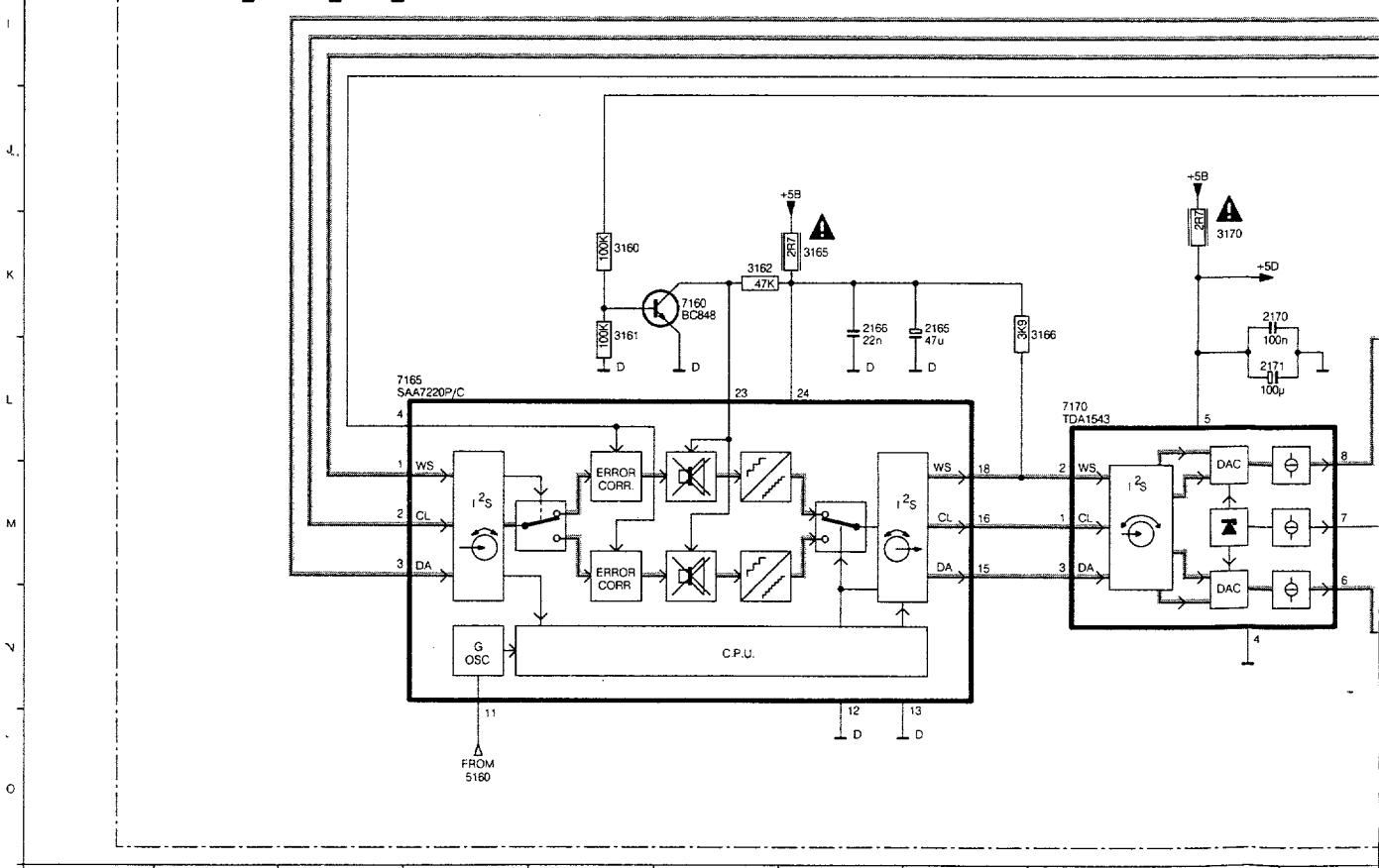
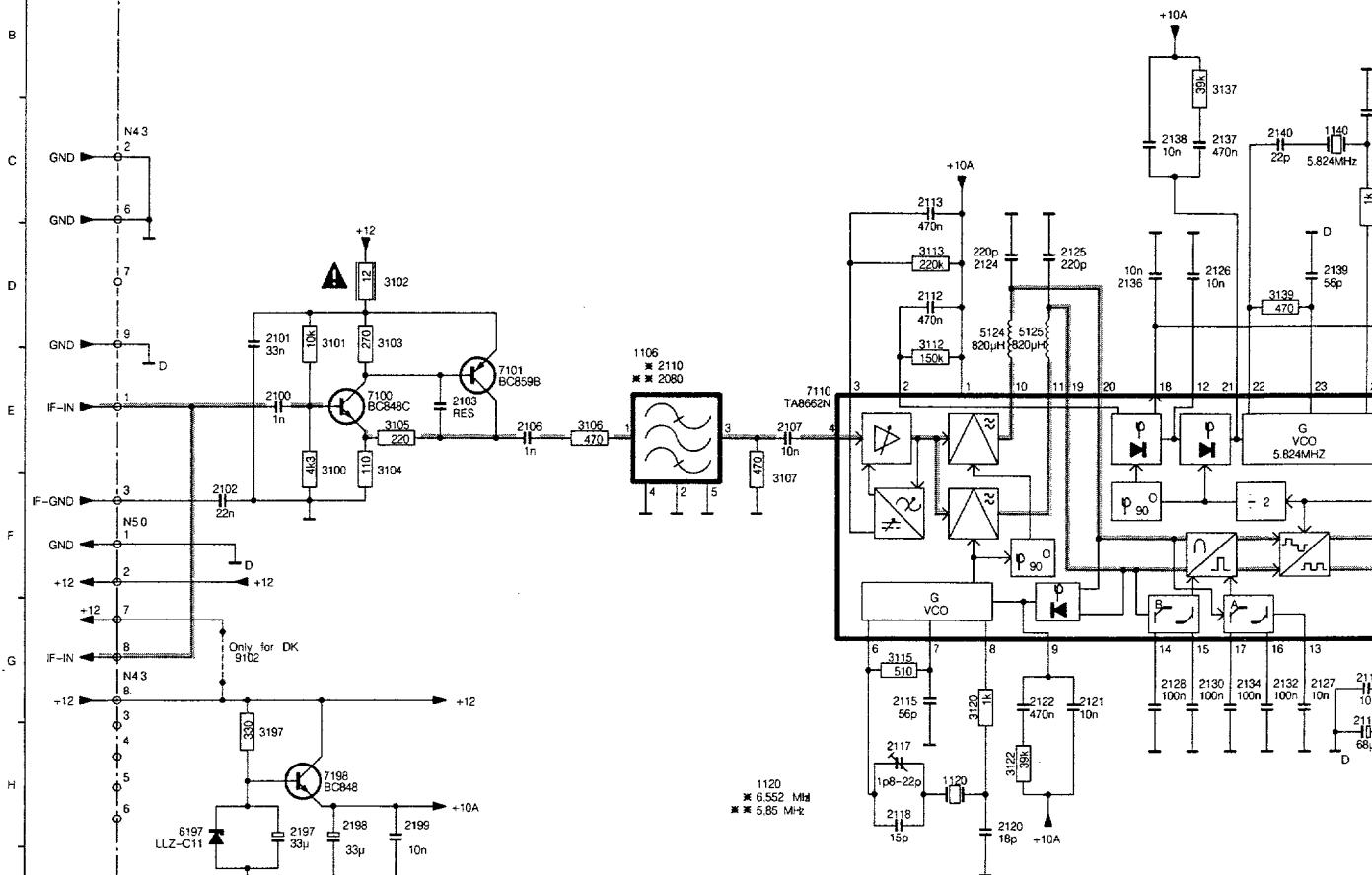


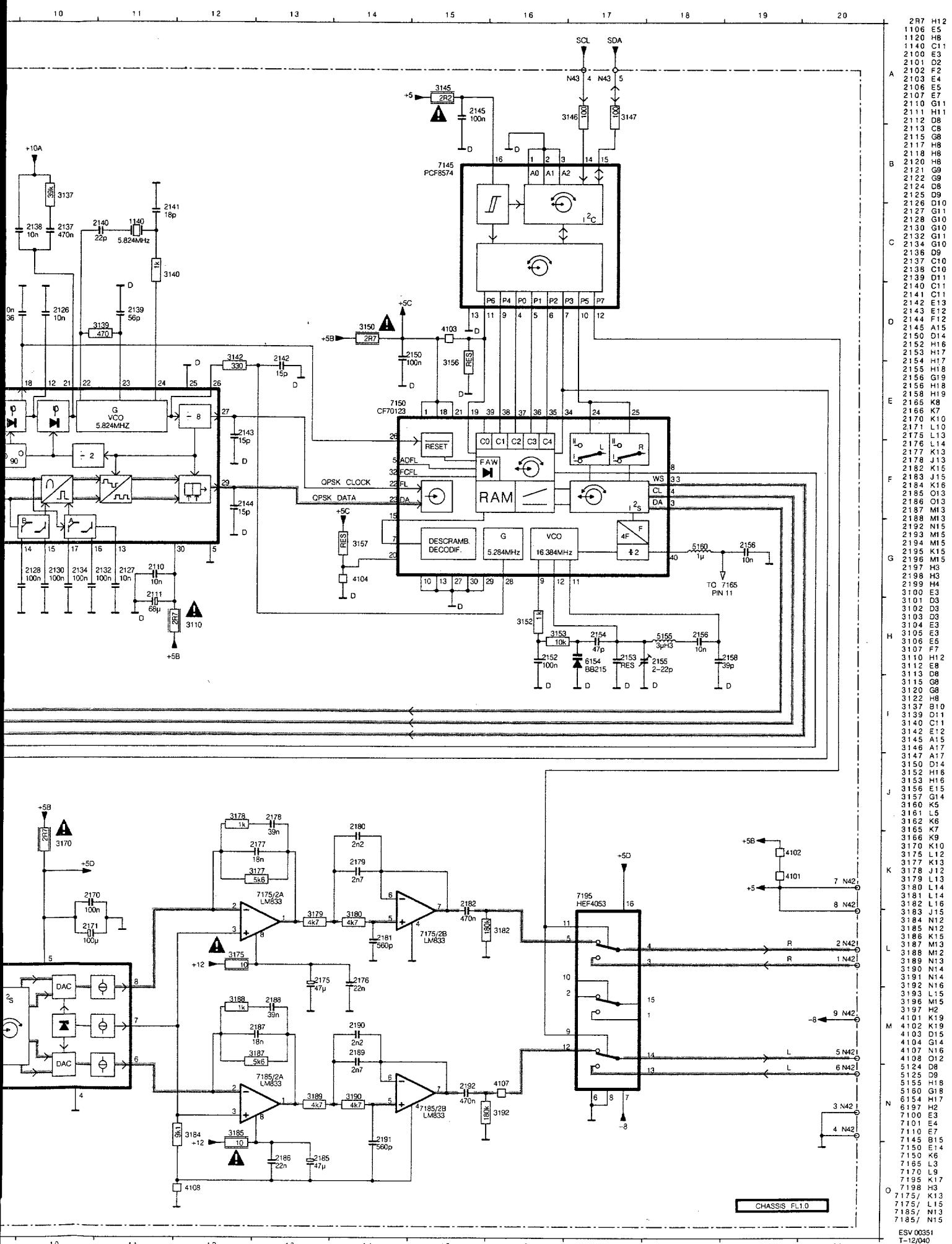
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2015	B15
2016	C16
2018	F18
2020	H18
2021	M18
2022	K18
2023	L18
2024	D17
2025	A7
2027	C7
2029	M7
2031	J5
2032	M1
2033	M6
2042	A9
2043	O1
2046	K11
2047	O9
2050	B8
2051	C8
2056	A7
2057	D7
2062	N8
2065	C6
2068	N6
2069	N8
2071	N17
2072	K3
2073	M6
2074	N20
3000	C5
3001	D5
3004	H2
3008	J6
3009	J5
3011	I5
3016	L11
3019	D12
3020	D12
3027	N14
3028	C6
3029	M3
3030	L3
3031	K3
3032	K3
3033	K5
3034	K5
3035	M4
3036	M8
3037	M5
3040	N16
3041	N11
3044	N17
3050	C2
3051	B5
3052	D4
3053	E3
3054	J18
3060	L6
3065	C8
3067	N10
3067	M20
3068	N19
3069	N18
3072	M18
3073	N19
3074	N20
4003	O15
4005	I6
6000	M14
6001	O14
6008	C17
6010	N18
6011	K3
6012	K3
6021	K11
6021	K1
7000	A8
7002	G3
7003	N15
7005	K2
7006	K2
7007	K4
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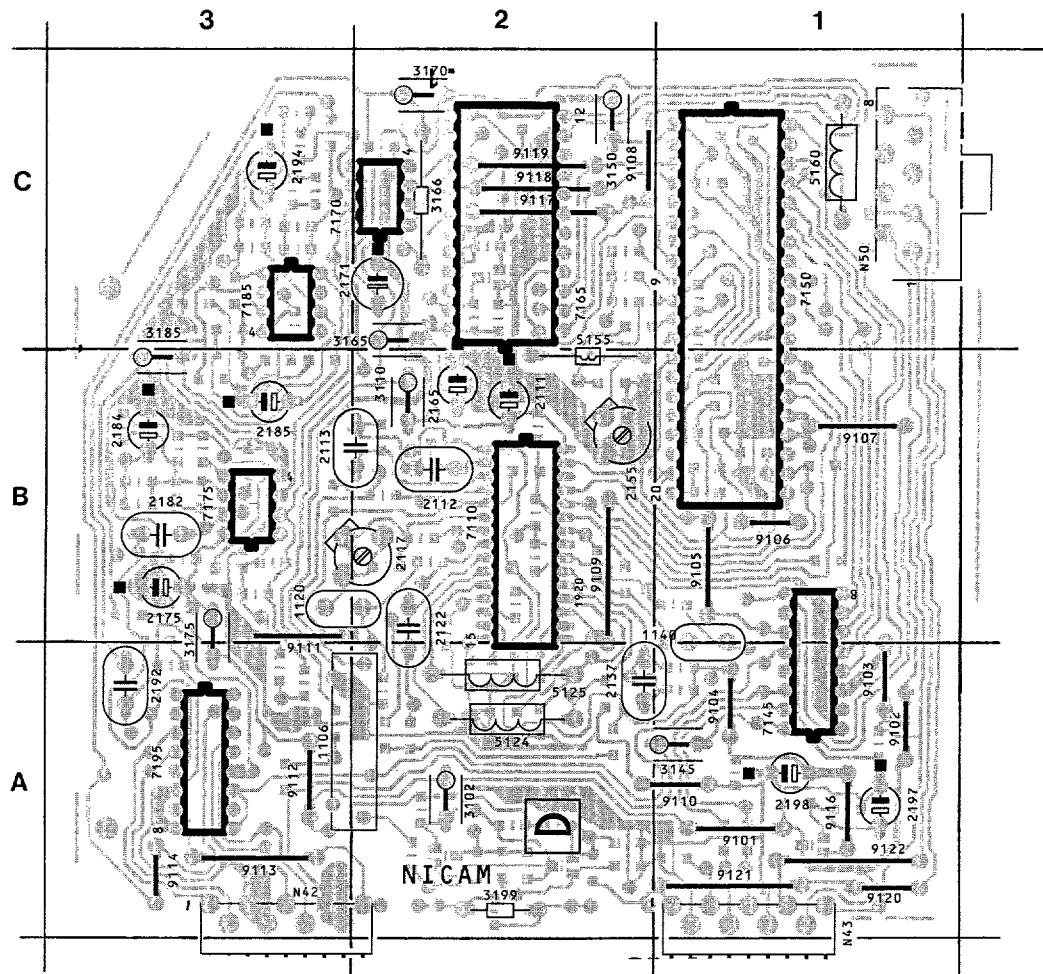
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NICAM

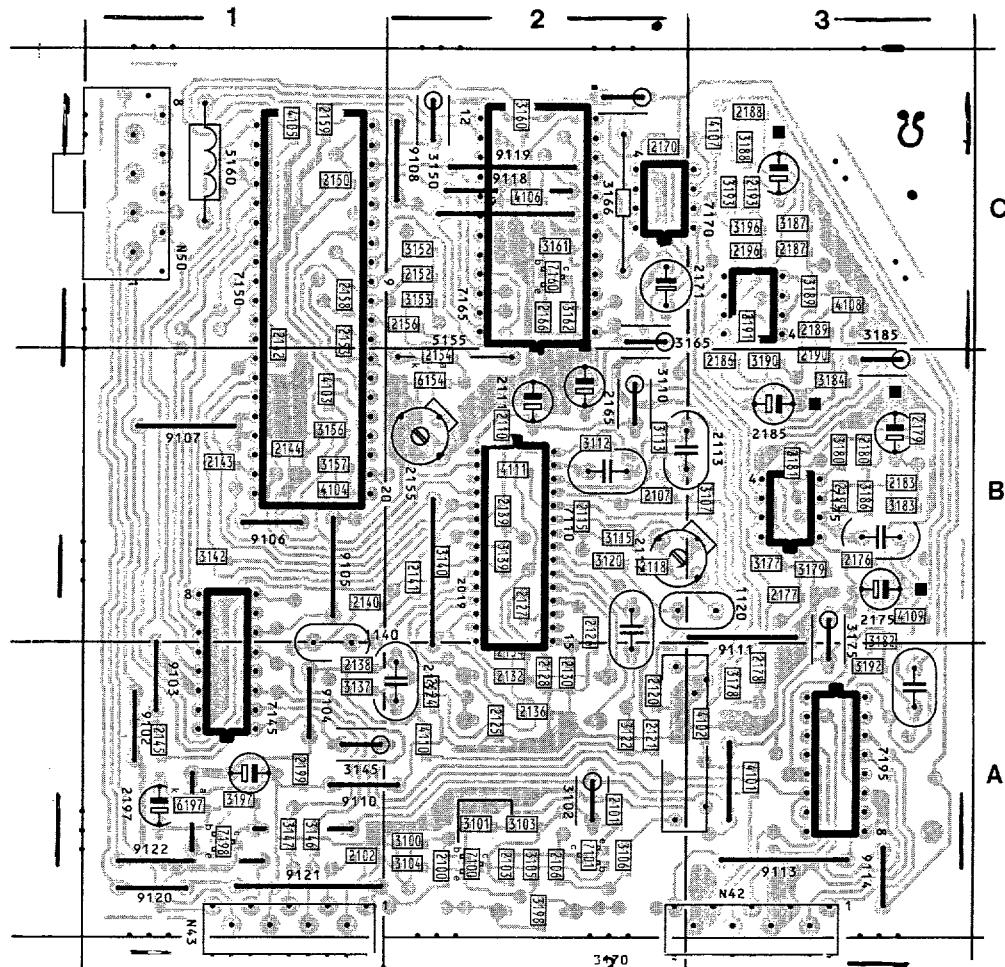
- * PRESENT FOR PAL 1
- ** PRESENT FOR PAL B/G



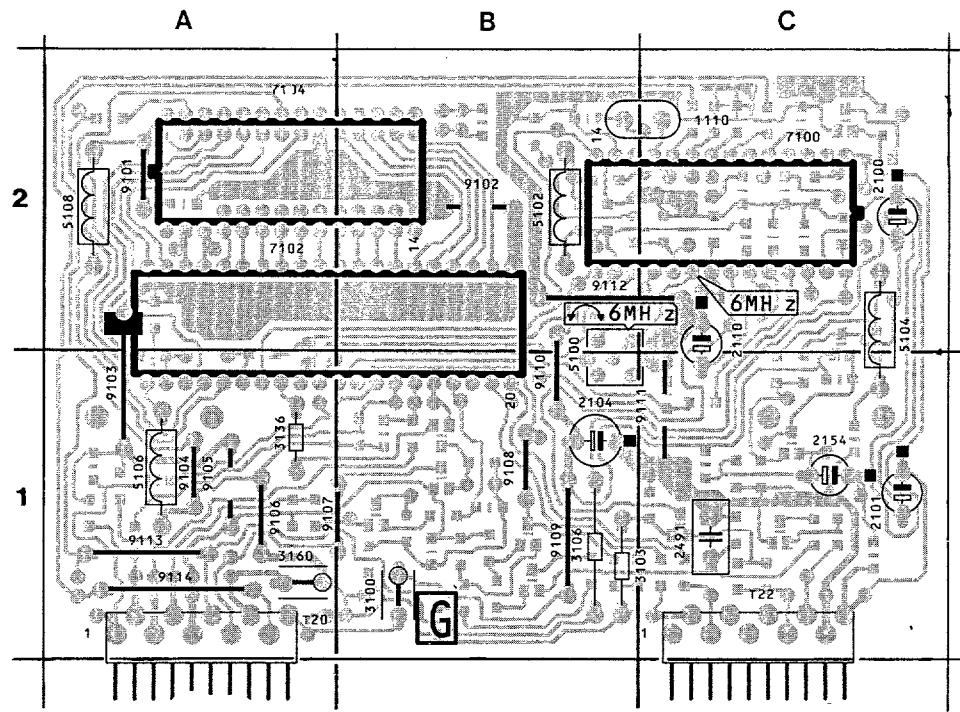




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1120 B3	2121 A2	2142 C1	2175 B3	2191 C3	3107 B3	3153 C2	3183 B3	4102 A3	7100 A2	9105 B1	9122 A1
1140 B1	2122 B2	2143 B1	2176 B3	2192 A3	3110 B2	3156 B1	3184 B3	4103 B1	7101 A2	9106 B1	N42 A2
2100 A2	2124 A2	2144 B1	2177 B3	2193 C3	3112 B2	3157 B1	3185 B3	4104 B1	7110 B2	9107 B1	N43 A1
2101 A2	2125 A2	2145 A1	2178 A3	2194 C3	3113 B2	3160 C2	3186 B3	4105 C1	7145 A1	9108 C2	N50 C1
2102 A1	2126 B2	2150 C1	2179 B3	2195 B3	3115 B2	3161 C2	3187 C3	4106 C2	7150 C1	9109 B2	
2103 A2	2127 B2	2152 C2	2180 B3	2196 C3	3120 B2	3162 C2	3188 C3	4107 C3	7160 C2	9110 A1	
2106 A2	2128 A2	2153 C1	2181 B3	2197 A1	3122 A2	3165 C2	3189 C3	4108 C3	7165 C2	9111 B3	
2107 B2	2130 A2	2154 B2	2182 B3	2198 A1	3137 A1	3166 C2	3190 B3	4109 B3	7170 C2	9112 A3	
2110 B2	2132 A2	2155 B2	2183 B3	2199 A1	3139 B2	3170 C2	3191 C3	4110 A2	7175 B3	9113 A3	
2111 B2	2134 A2	2156 C2	2184 B3	3100 A2	3140 B2	3175 B3	3192 A3	4111 B2	7185 C3	9114 A3	
2112 B2	2136 A2	2158 C1	2185 B3	3101 A2	3142 B1	3177 B3	3193 C3	5124 A2	7195 A3	9116 A1	
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2117 B3	2139 B2	2166 C2	2188 C3	3104 A2	3147 A1	3180 B3	3198 A2	5160 C1	9102 A1	9119 C2	
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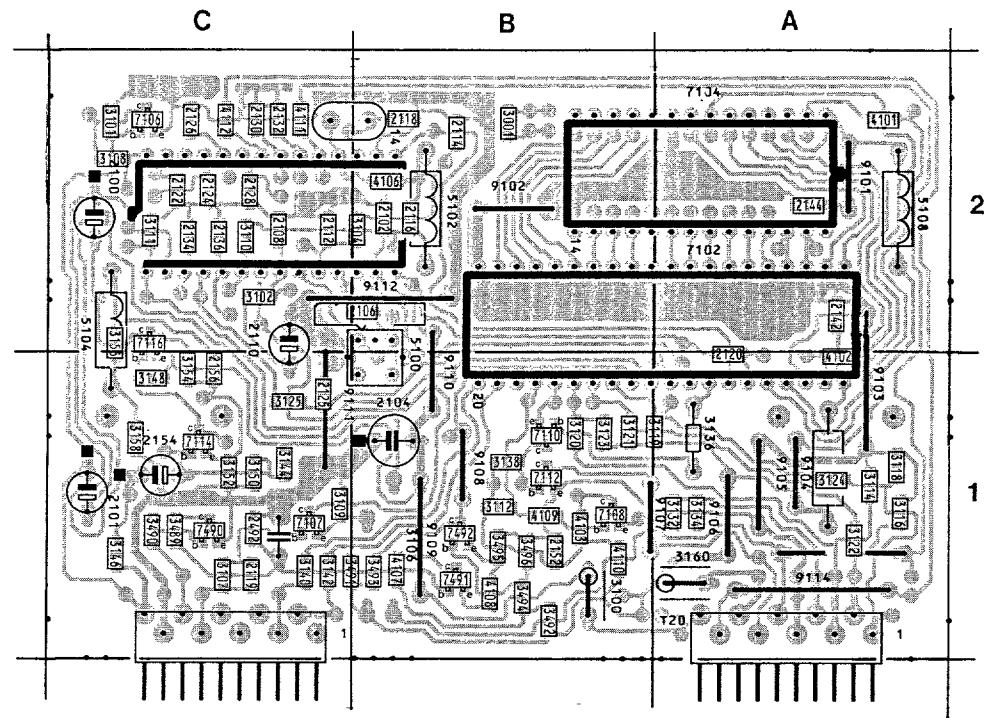


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1120 B3	2121 A2	2142 C1	2175 B3	2191 C3	3107 B3	3153 C2	3183 B3	4102 A3	7100 A2	9105 B1	9122 A1
1140 B1	2122 B2	2143 B1	2176 B3	2192 A3	3110 B2	3156 B1	3184 B3	4103 B1	7101 A2	9106 B1	N42 A2
2100 A2	2124 A2	2144 B1	2177 B3	2193 C3	3112 B2	3157 B1	3185 B3	4104 B1	7110 B2	9107 B1	N43 A1
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2103 A2	2127 B2	2152 C2	2180 B3	2196 C3	3120 B2	3162 C2	3188 C3	4107 C3	7160 C2	9110 A1	
2106 A2	2128 A2	2153 C1	2181 B3	2197 A1	3122 A2	3165 C2	3189 C3	4108 C3	7165 C2	9111 B3	
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2110 B2	2132 A2	2155 B2	2183 B3	2199 A1	3139 B2	3170 C2	3191 C3	4110 A2	7175 B3	9113 A3	
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2112 B2	2136 A2	2158 C1	2185 B3	3101 A2	3142 B1	3177 B3	3193 C3	5124 A2	7195 A3	9116 A1	
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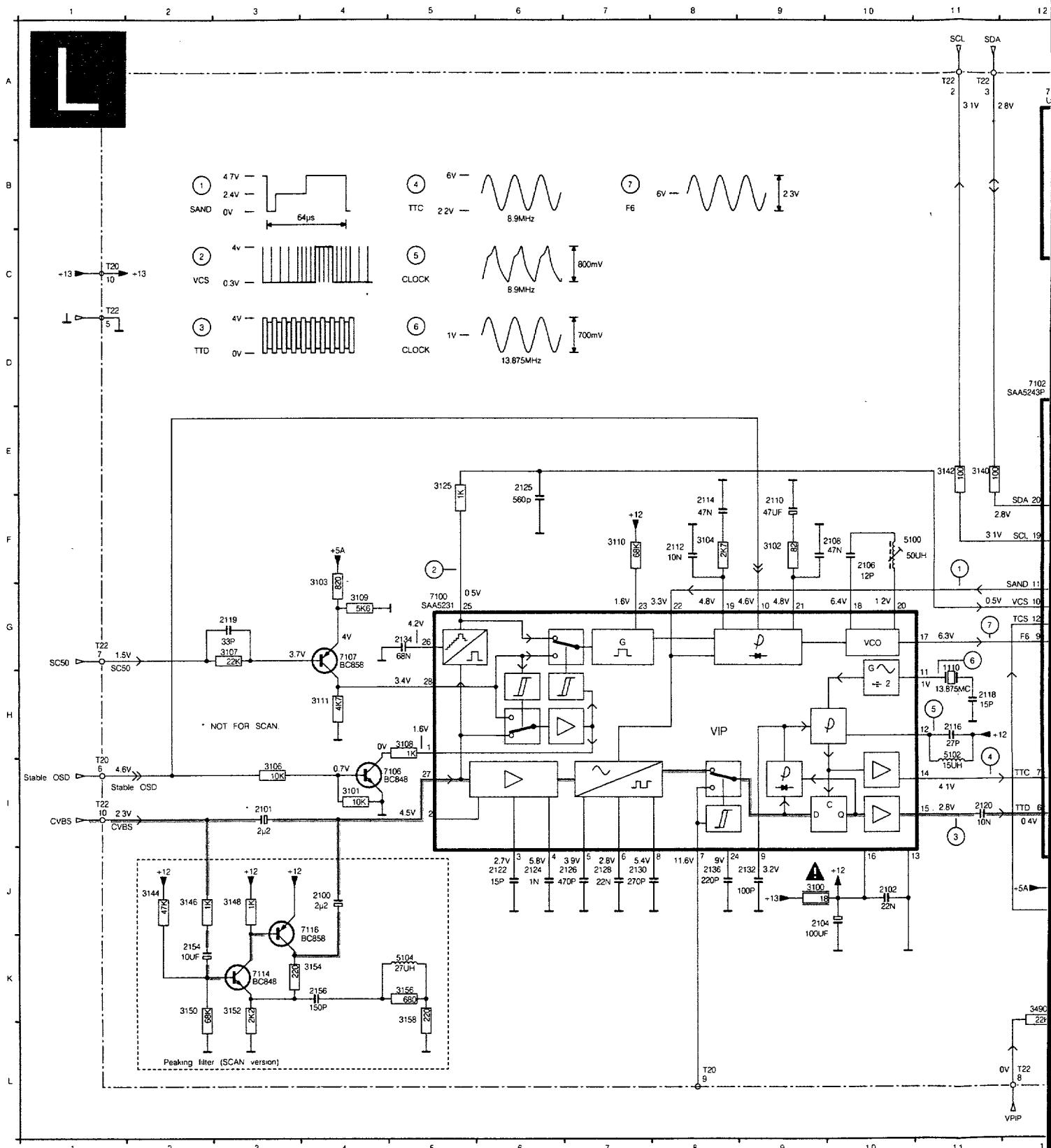


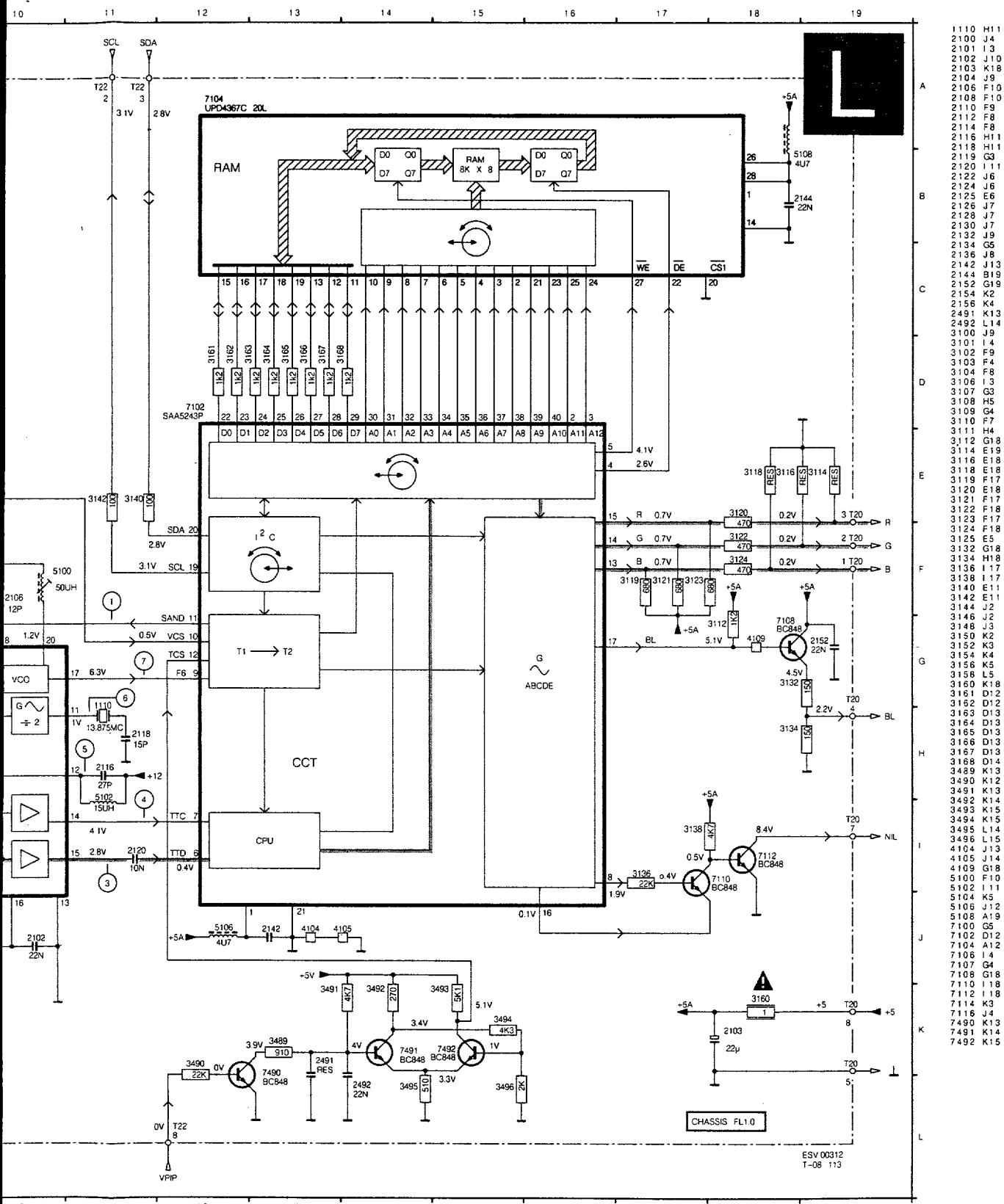
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2112 C2	2144 A2	3110 C2	3144 C1	3496 B1	7100 C2	9104 A1	
2114 B2	2152 B1	3111 C2	3146 C1	4101 A2	7102 A1	9105 A1	
2116 B2	2154 C1	3112 B1	3148 C1	4102 A1	7104 A2	9106 A1	
2118 B2	2156 C1	3119 A1	3150 C1	4103 B1	7106 C2	9107 A1	
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2122 C2	3001 B2	3122 A1	3156 C2	4108 B1	7110 B1	9110 B1	
2124 C2	3100 B1	3123 B1	3158 C1	4109 B1	7112 B1	9111 C1	

6.51 CHASSIS FL1.0



1110 C2	2125 C1	3101 C2	3124 A1	3160 A1	4110 B1	7114 C1	9112 B2
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2108 B2	2134 C2	3107 C1	3138 B1	3493 B1	5104 C2	9101 A2	
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2110 C2	2142 A2	3109 C1	3142 C1	3495 B1	5108 A2	9103 A1	
2112 C2	2144 A2	3110 C2	3144 C1	3496 B1	7100 C2	9104 A1	
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2116 B2	2154 C1	3112 B1	3148 C1	4102 A1	7104 A2	9106 A1	
2118 B2	2156 C1	3119 A1	3150 C1	4103 B1	7106 C2	9107 A1	
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2120 A1	2492 C1	3121 B1	3154 C1	4107 B1	7108 B1	9109 B1	
2122 C2	3001 B2	3122 A1	3156 C2	4108 B1	7110 B1	9110 B1	
2124 C2	3100 B1	3123 B1	3158 C1	4109 B1	7112 B1	9111 C1	





Electrical adjustments

CHASSIS FL1.0

7.1

7.2

Setting conditions

- * Unless stated otherwise, the supply voltage used is: 220 - 240V \pm 10%; 50 - 60Hz \pm 5%
- * Voltages and oscilloscopes 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 $150V \pm 2V$.

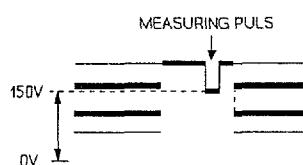


Fig. 7.1

1.4 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.

1.9 Picture height

Set using potentiometer R3410.

1.10 East/West correction

Set using potentiometer R3602.

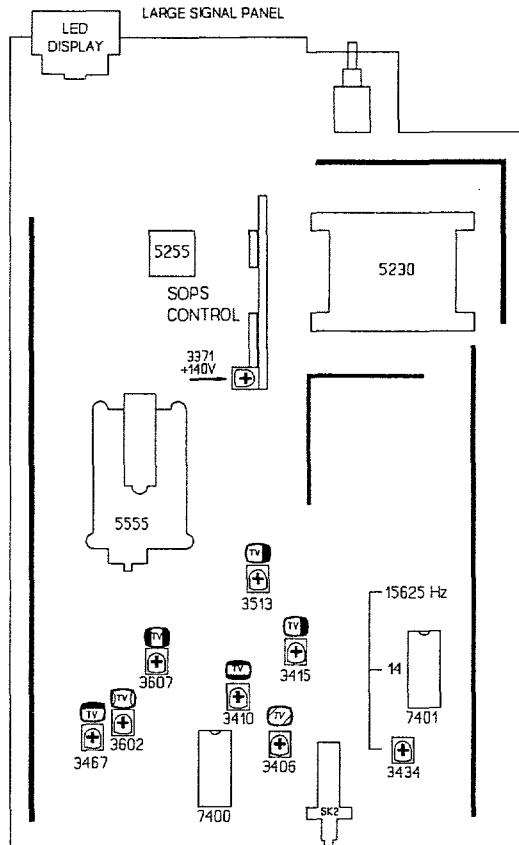


Fig. 7.2

2. Electrical settings on the small signal panel

2.1 Stereo audio channel separation

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

2.2 4.43 MHz chroma suppression circuit

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

2.3a Electrical settings for sets with IC7364 - TDA4510

a-1 Chroma bandpass filter
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7364.
Set L5354 to maximum amplitude.

a-2 Chroma auxiliary oscillator

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

2.3b Electrical settings for sets with IC7365 - TDA4650**b-1 Chroma bandpassfilter**

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

b-2 4.50 MHz NTSC sound suppression

Connect a generator to point 20 of Euroconnector EXT1 with a frequency of 4.50 MHz and 200mV_{rms}. Connect point 26-IC7365 to point 13-IC7365. Connect an oscilloscope to point 15 of IC7365. Set L5346 to minimum amplitude. Remove the short circuit.

b-3 6.50 MHz SECAM DK sound suppression

Connect a sine-wave generator to point 20 of Euroconnector EXT1 with a frequency of 6.50 MHz and 200mV_{rms}. Connect point 28-IC7365 to point 13-IC7365. Connect an oscilloscope to point 15 of IC7365. Set L5346 to minimum amplitude. Remove the short circuit.

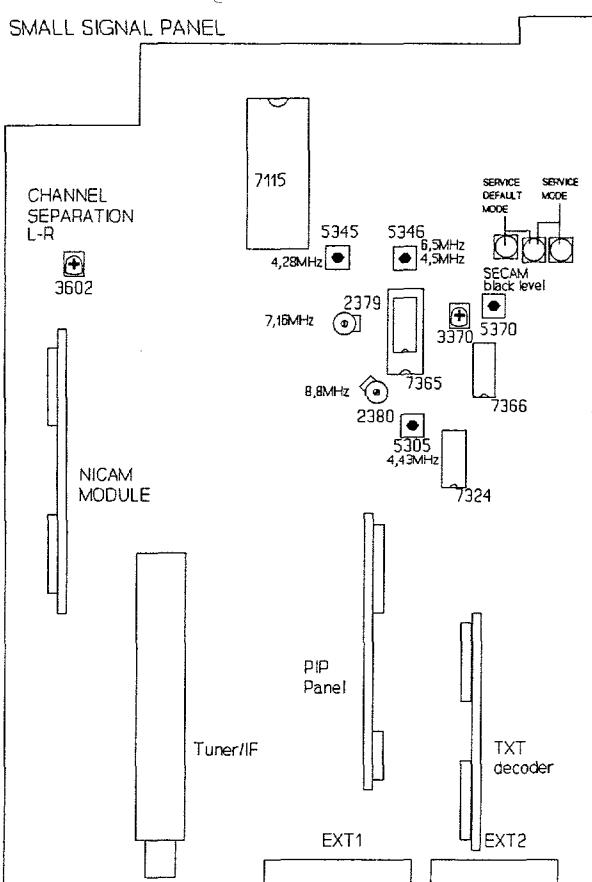


Fig. 7.3

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.

3. Electrical setting on the teletext decoder

Connect pin 22-IC7100 briefly to earth. Connect a frequency counter to pin 17-IC7100. Using L5100, set to 6,000 MHz ± 30 kHz. Remove the short circuit.

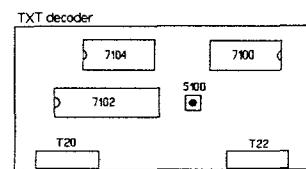


Fig. 7.4

4. Electrical settings on the NICAM decoder panel**4.1 The NICAM demodulator**

Supply an aerial or generator signal which has a NICAM audio signal. Connect the X-input of the oscilloscope to pin 19-IC7110. Connect the Y-input of the oscilloscope to pin 20-IC7110. Set the oscilloscope to the X-Y position. Set the sensitivity of the oscilloscope to 1V/div AC. Set the X and Y position so that the cross pattern is in the centre of the oscilloscope picture. Set C2117 on a straight cross pattern (see fig. 7.5).

4.2 The "Sample" clock oscillator

Supply an aerial or generator signal which has a NICAM audio signal. Connect an oscilloscope to pin 9-IC7150. Set the sensitivity of the oscilloscope to 1V/div and the time base to 2μs/div. Set C2155 so that a symmetrical block wave is visible.

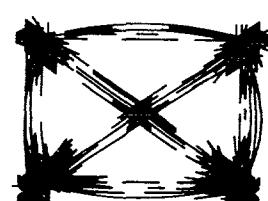


Fig. 7.5

5. Electrical settings on the PIP panel

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

5.1 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.

5.2a 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

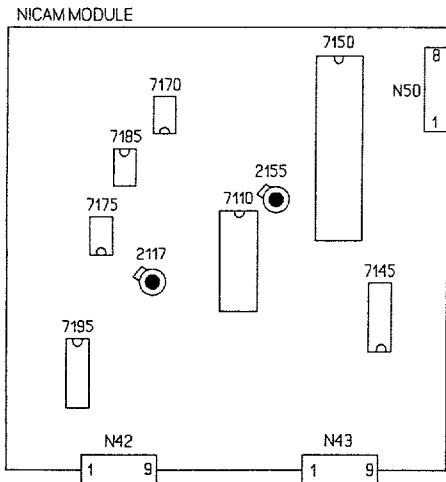


Fig. 7.6

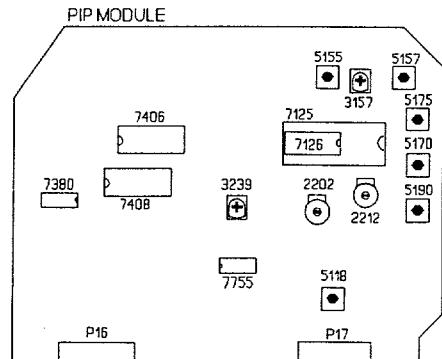


Fig. 7.7

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.

5.2b 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.

6. 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 (optional)
b(c)	green	xxx
c(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.

6.1 White balance

Connect a pattern generator and choose a white picture.

- Select b(c) (green) or c(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.

6.2 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 FQ816/ME/IF	2
A PIP module	8
A NICAM module	64
---	+

Optioncode 1 now becomes

74

Option code 2 (optional)

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
NICAM with PCF8574	0
---	+
Option code 2 now becomes	0

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	Front end = FQ816/IF A reception of PAL BG or PAL BG and SECAM BG is now possible.
1	Front end = FQ844 Only reception of the UHF band is now possible.
2	Front end = FQ816/ME/IF Reception of SECAM L but not of SECAM L' is now possible (reception of NTSC-M is now usually also possible).
4	Front end = FQ816/MF/IF Reception of both SECAM L and SECAM L' is now possible (NTSC M reception is generally possible now via the Euroconnector).
8	PIP module fitted This makes it possible to show PIP (Picture In Picture) displays.
16	NTSC-M reception possible This is normally always in combination with front end FE816/ME/IF or FE816/MF/IF.
32	SECAM DK module fitted In this case transmissions using the SECAM DK system can also be received.
64	NICAM module fitted In this case the digital sound with NICAM transmission can be received. Check that the IC is used at position 7145 (PCF8574 or PCF8574A) in connection with number 16 in option code 2.
128	Second front end for PIP fitted If this second front end is fitted a second transmitter can be displayed in the PIP picture. The PIP function (number 8) still applies. Since IC-PCF8574A is now probably used in position 7145 on the NICAM module, number 16 in option code 2 will apply.

Optioncode 2 (optional)	
Nbr.	Function
0	NICAM with PCF8574
16	NICAM with PCF8574A If the PCF8574A is used instead of the PCF8574 on the NICAM panel at position 7145. This is always the case in sets with a second front end for PIP.

1. The Service Default Mode

The FL1.2 is equipped with a service default mode. The service default mode is a fixed, definite state to which the set can be switched.

1.1 Definition state

The definition of the fixed state in the service default mode is as follows:

- all sound and picture controls are in the central position (exception volume which is turned down)
- tuned to 475.25 MHz
- system:
 - * PAL/SECAM BG for Multi Europe
 - * PAL I for UK
 - * SECAM L for Multi French

1.2 Switch on and off

The service default mode is switched on by shorting pins S24 and S25 on the small signal panel.

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

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

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

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

1.3 Fault signals

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

SERVICE 00 00 05 06 05

The five numbers after the word "service" stand for the last five fault signals noted by the operator(s). The number on the extreme right represents the last fault signal, that on the extreme left the last fault signal but 4.

Since this enables fault reports to be looked at afterward, it means that intermittent faults can be traced.

When the set leaves the service default mode, the fault-report memory is cleared.

1.4 Operation

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

2. Software protection

If it is observed by the control that the front end has ceased to give an I²C 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 o

I²C Blo

ERRC
CODE



02

04

05

06

07

09

Faultfindingtree

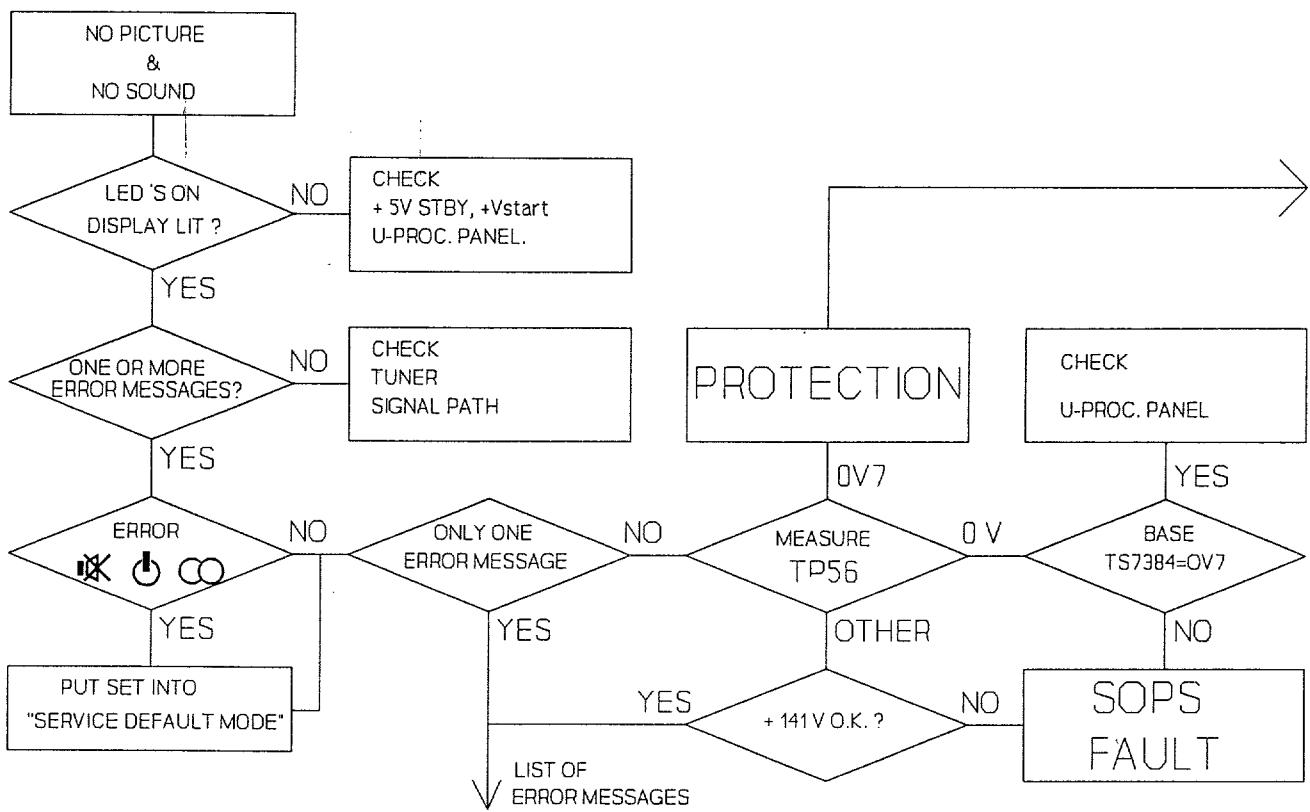
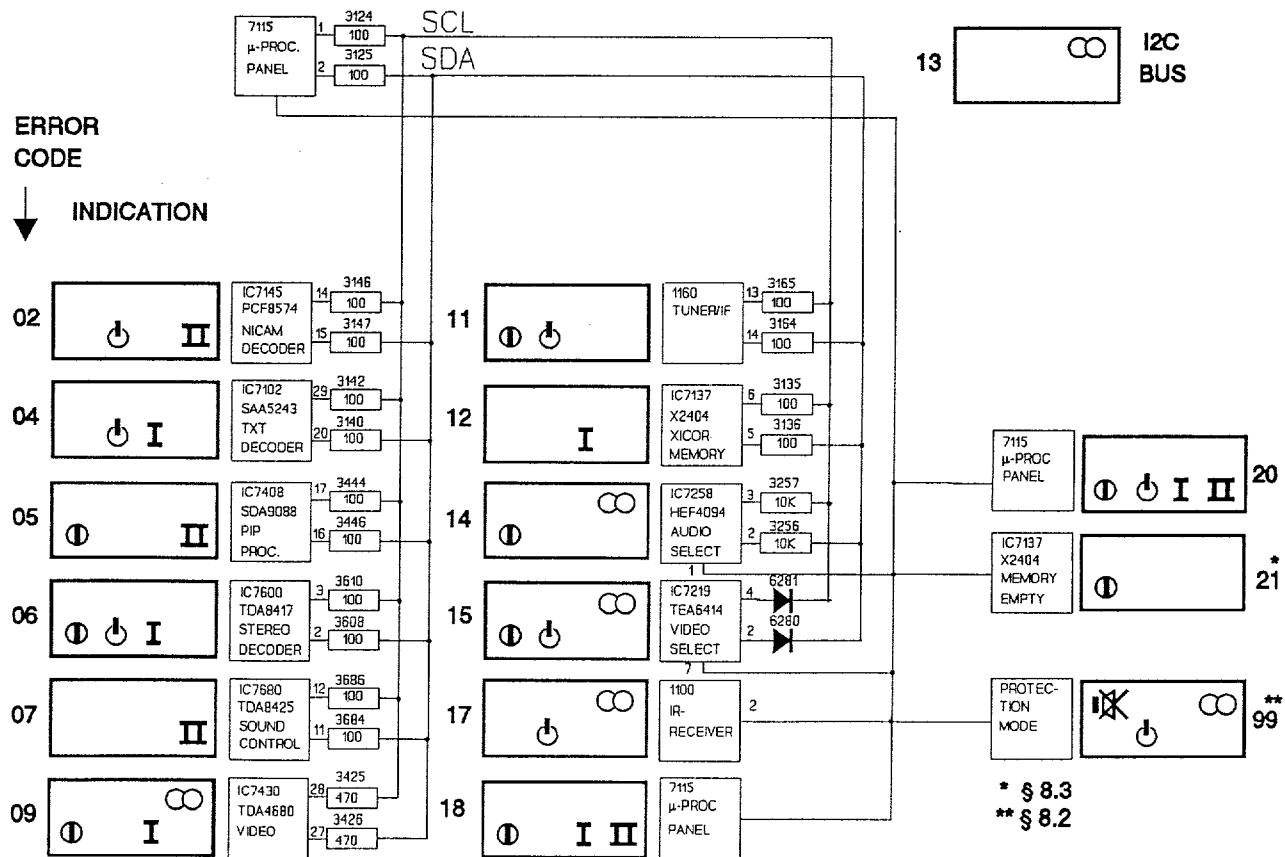


Fig 1

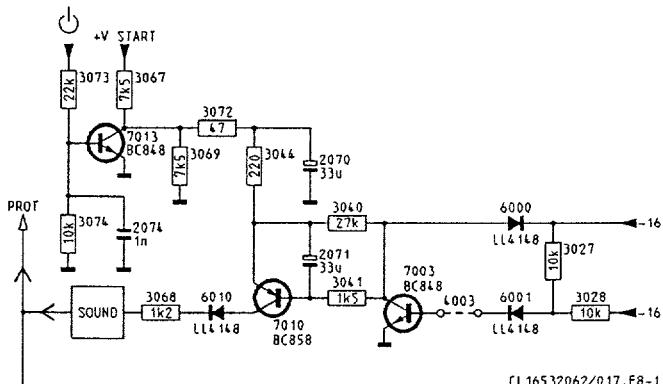
List of error messages

I²C Blockdiagram

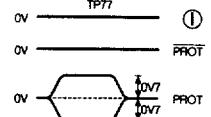
Protection

CHASSIS FL1.0

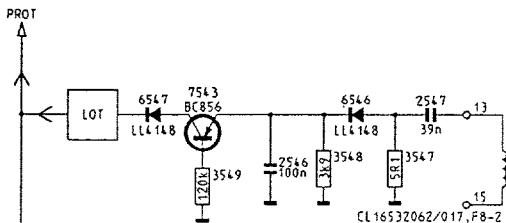
8.3



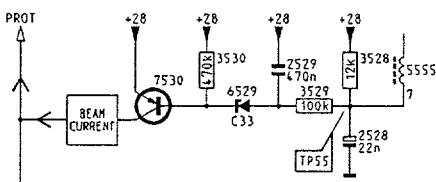
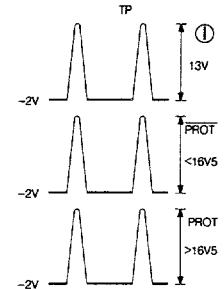
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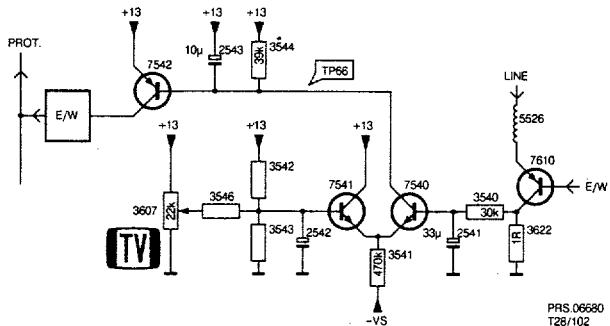
EHT



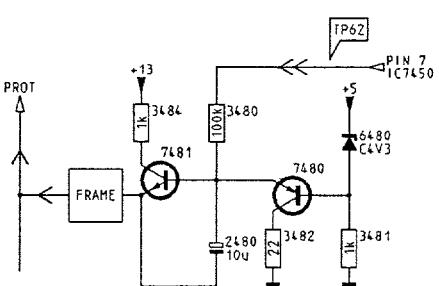
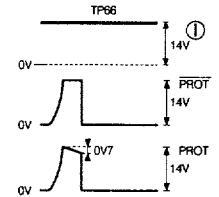
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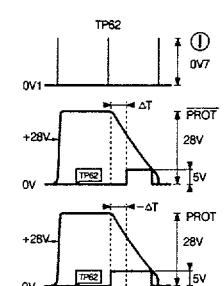
CL16532062/017, F8-3



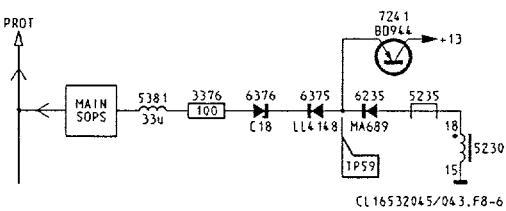
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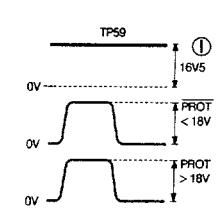
CL16532062/017, F8-5



+V



CL16532045/043, F8-6



CS40901 GB

Repair tips

4. Servicing of SMDs (Surface Mounted Devices)

4.1 General cautions on handling and storage

- a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- b. 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.
- c. 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

- a. 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:
- b. 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).
- c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

Caution on removal:

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

4.3 Attachment of SMDs

- a. 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).
- b. Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

- a. 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.
- b. Keep the SMD's body in contact with the printed board when soldering.
- c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
- d. Soldering should not be done outside the solder land.
- e. Soldering flux (of rosin) may be used, but should not be acidic.
- f. After soldering, let the SMD cool down gradually at room temperature.
- g. 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).

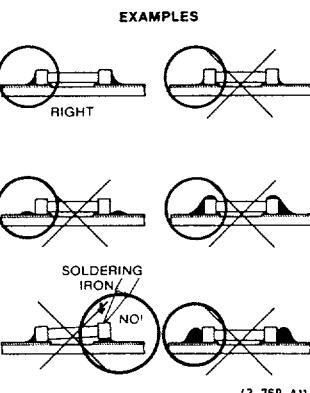
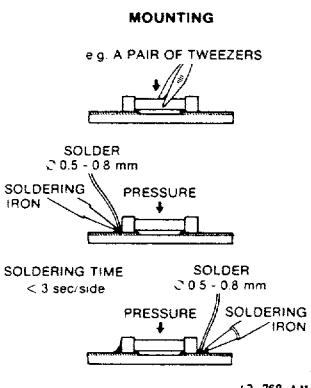
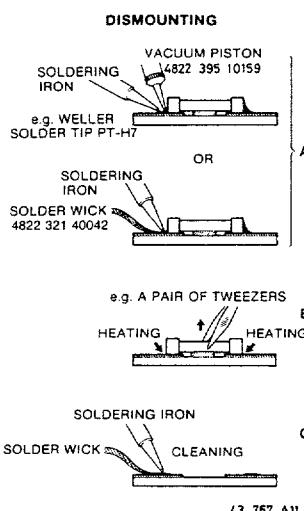


Fig. 8.1

Fig. 8.2

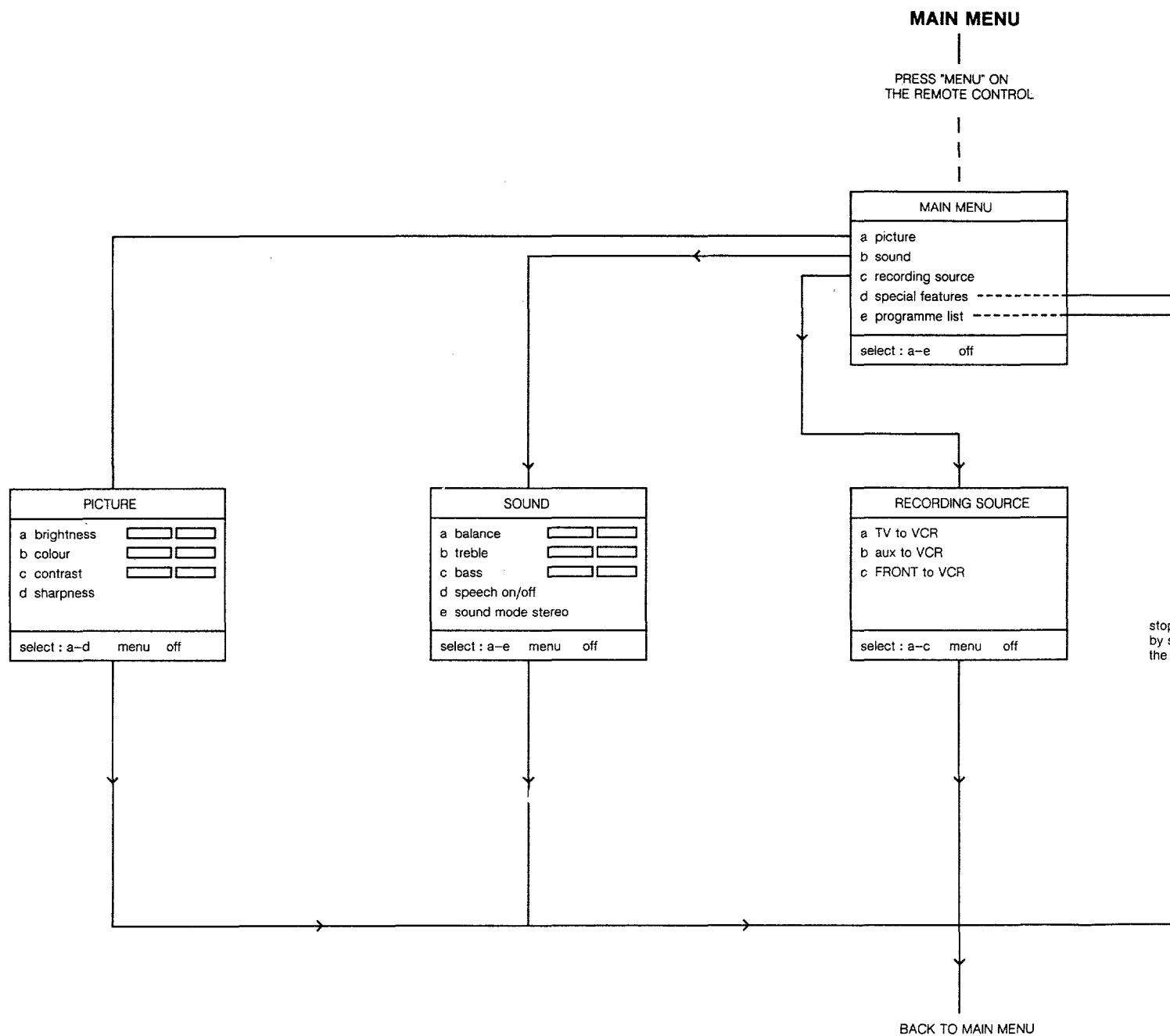
Fig. 8.3

Survey of menus

CHASSIS FL1.0

9.1

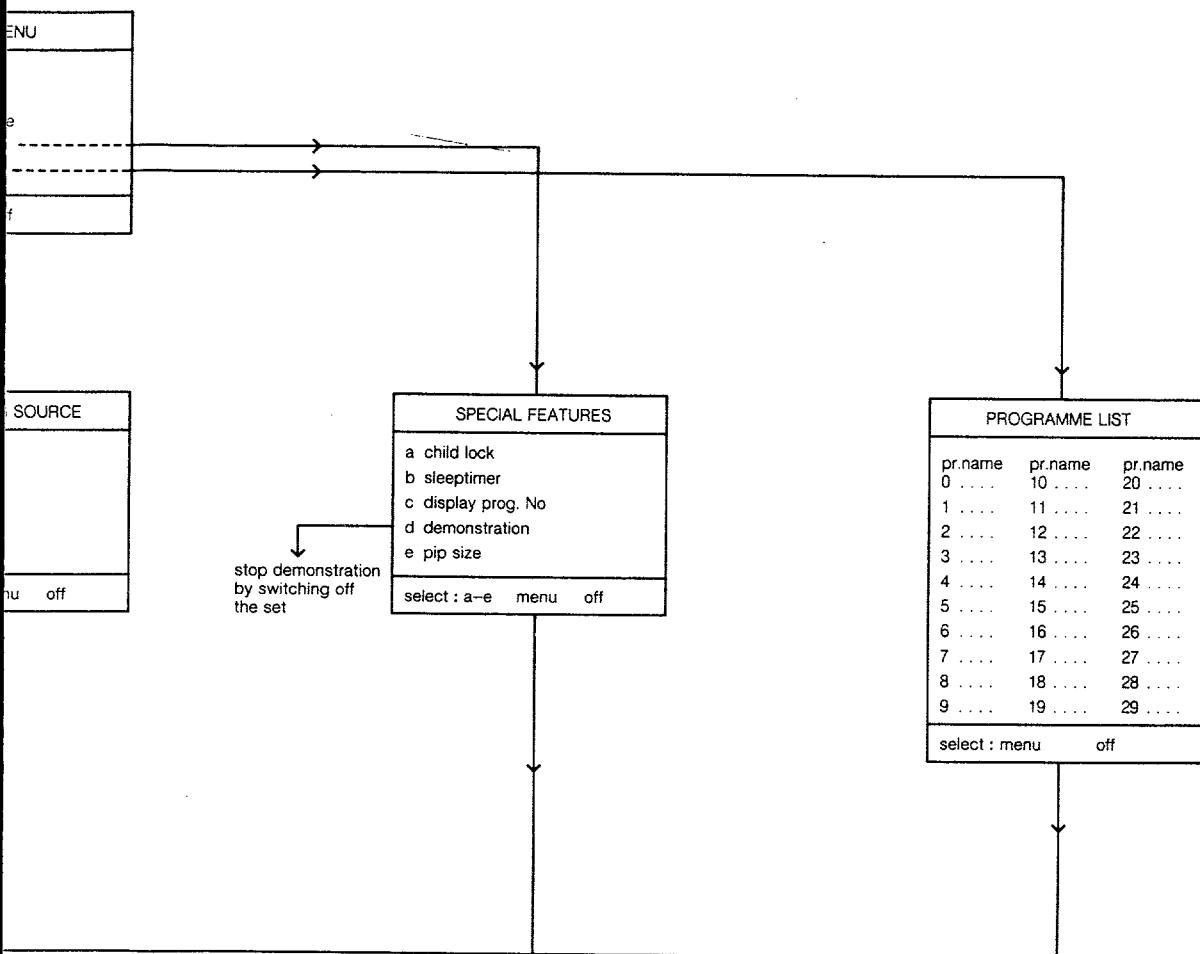
9.2

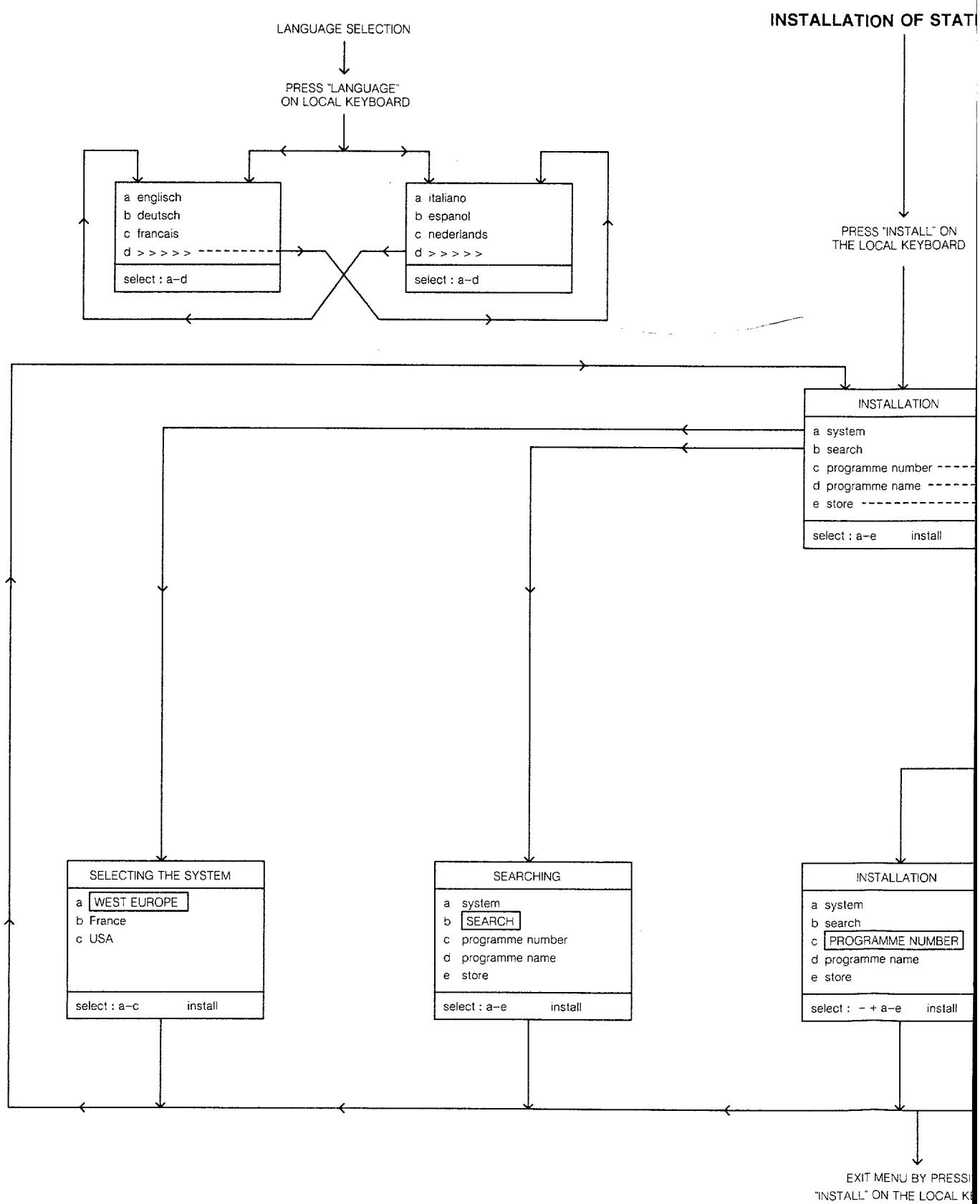


9.1

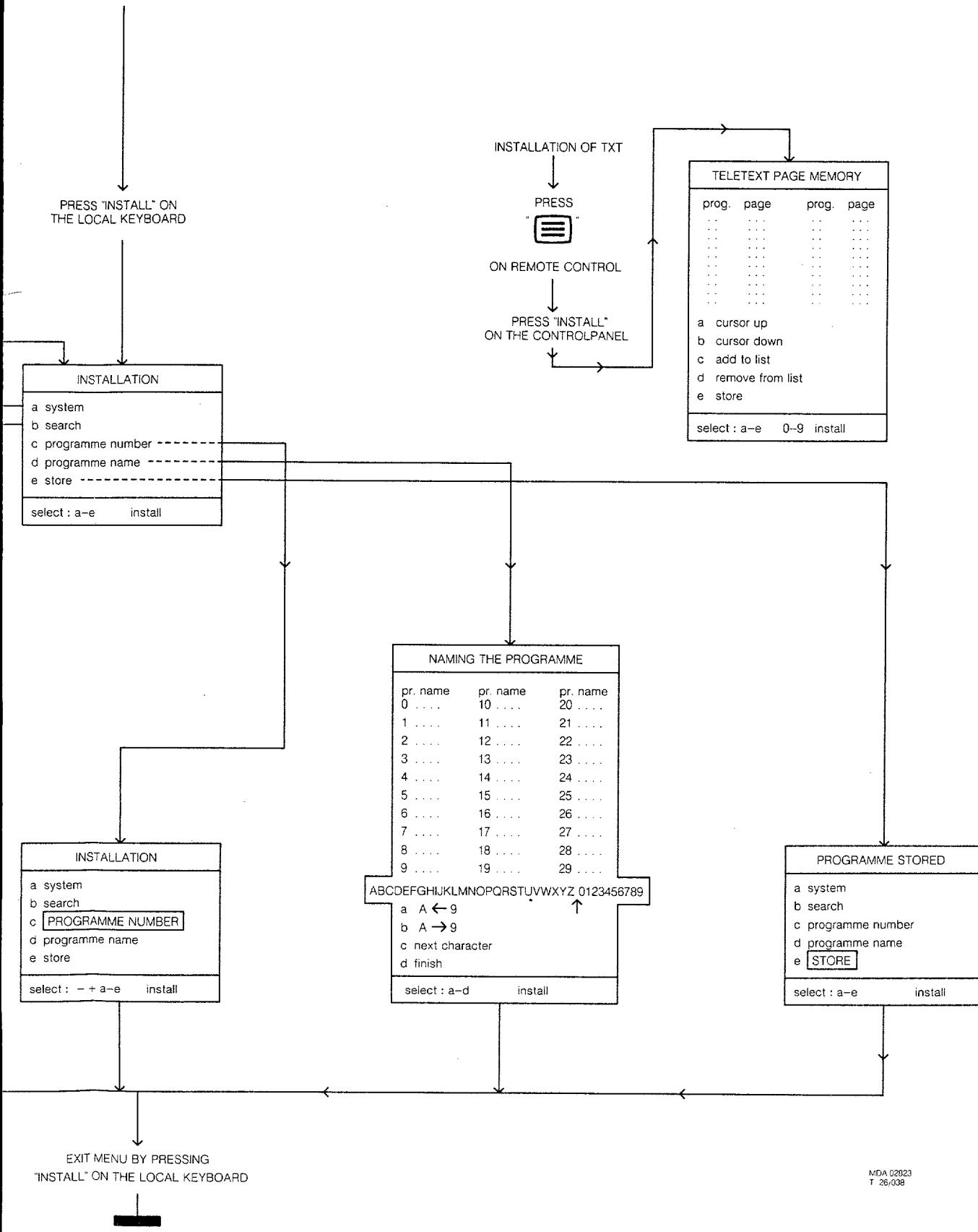
9.2

CHASSIS FL1.0

MENUNU ON
CONTROL



STALLATION OF STATIONS



Large signal panel A B G

Large

Connectors											
4822 265 30389	2P male	2031	4822 126 11175	22pF 5% 50V	2407	5322 122 33446	3,3nF 10% 63V	2547			
4822 265 40469	6P female gold plated	2032	4822 122 31797	22nF 10% 63V	2408	4822 122 30091	390pF 10% 100V	2551			
4822 265 40472	10P female gold plated	2038	4822 122 31644	2,2nF 10% 63V	2409	4822 122 31797	22nF 10% 63V	2600			
4822 265 40472	10P female gold plated	2042	4822 122 32927	220nF	2410	4822 121 51244	330nF 5% 50V	2601			
4822 265 40472	10P female gold plated	2043	4822 122 32927	220nF	2411	4822 121 51244	330nF 5% 50V	2604			
4822 290 40295	7P male	2046	4822 122 32927	220nF	2415	4822 122 33496	100nF 10% 63V	2604			
4822 265 40818	8P male	2047	4822 122 32927	220nF	2416	4822 122 33496	100nF 10% 63V	2604			
4822 265 40818	8P male	2050	4822 124 42108	33μF 20% 16V	2417	4822 122 32808	1,2nF 10% 63V	2604			
4822 267 40985	6P male	2051	4822 124 42108	33μF 20% 16V	2418	4822 122 31797	22nF 10% 63V	2605			
4822 264 40207	3P male	2056	4822 122 31773	560pF 5% 50V	2419	4822 124 40849	330μF 20% 16V	2605			
4822 265 40421	6P male	2057	4822 122 31773	560pF 5% 50V	2420	4822 122 31772	47pF 5% 50V	2605			
4822 265 30389	2P male	2060	4822 122 31773	560pF 5% 50V	2421	4822 122 33496	100nF 10% 63V	2605			
4822 265 40596	2P male	2065	4822 126 11156	684nF 20%	2422	4822 122 33496	100nF 10% 63V	2606			
4822 265 20509	2P male grey	2066	4822 126 11156	684nF 20%	2423	4822 122 32442	10nF 50V	2606			
4822 265 20512	2P male green	2070	4822 124 40272	33μF 20% 16V	2424	4822 121 51565	4,7nF 1% 250V	2609			
4822 265 20511	2P male blue	2071	4822 124 42184	33μF 20% 25V	2425	4822 124 41577	4,7μF 20% 50V	2610			
4822 267 50591	6P male gold plated	2072	4822 124 40178	100μF 20% 10V	2426	4822 122 32442	10nF 50V	2611			
4822 264 50149	10P male gold plated	2073	4822 124 21212	15μF 20% 40V	2427	4822 122 31797	22nF 10% 63V	2613			
4822 265 30389	2P male	2074	5322 122 31647	1nF 10% 63V	2428	4822 122 33496	100nF 10% 63V	2613			
4822 265 30389	2P male	2200	4822 121 43819	680nF 10% 250V	2429	4822 122 33496	100nF 10% 63V	2614			
4822 265 30389	2P male	2203	4822 121 40487	100nF 10% 400V	2445	4822 122 31974	820pF 10% 63V				
4822 265 30389	2P male	2210	4822 122 33802	2,2nF 10% 1kV	2446	4822 122 32999	2,2N 5%				
Various parts		2211	4822 122 33802	2,2nF 10% 1kV	2450	4822 122 32442	10nF 50V	3000			
4822 492 70143	spring for 7216	2214	4822 124 23492	220μF 50% 385V	2451	4822 122 31746	1000pF 5% 50V	3001			
4822 492 62076	spring fix transistor	2215	4822 122 33665	3,3nF 20% 125V	2452	4822 124 41716	220μF 20% 35V	3004			
4822 492 70788	spring fix IC	2216	4822 126 10202	1,5nF 10% 2kV	2455	4822 122 31771	390pF 5% 50V	3008			
4822 492 70789	spring fix transistor	2230	4822 122 31784	4,7nF 10% 50V	2456	5322 124 41743	1500μF 20% 35V	3009			
4822 492 70789	spring fix transistor	2231	4822 126 11157	470pF 10% 500V	2457	4822 124 42249	1μF 10% 50V	3011			
4822 492 70789	spring fix transistor	2232	4822 124 21511	2200μF 20% 25V	2457	4822 124 42252	2,2μF 20% 50V	3016			
4822 492 70789	spring fix transistor	2233	4822 126 11157	470pF 10% 500V	2458	4822 122 31797	22nF 10% 63V	3019			
4822 276 12998	mains switch	2234	4822 124 21511	2200μF 20% 25V	2459	4822 122 32891	68nF 10% 63V	3020			
4822 256 30274	fuse holder	2235	4822 126 11157	470pF 10% 500V	2460	4822 122 33496	100nF 10% 63V	3027			
4822 290 60812	socket for ext. loudspeakers	2236	4822 124 23488	1000μF 20% 35V	2480	4822 124 23495	10μF 20% 25V	3028			
4822 276 13014	switch loudsp. ON/OFF	2237	4822 122 33708	2,2nF 10% 1kV	2502	4822 121 41689	100nF 10% 250V	3029			
4822 320 11086	focus cable	2238	4822 124 22583	47μF 180V	2503	4822 126 11501	1,5nF 10% 500V	3030			
4822 320 20162	EHT cable	2239	4822 124 40193	68μF 20% 16V	2503	4822 122 31169	1,5nF 10% 500V	3031			
4822 320 20177	EHT cable 21"	2254	4822 126 11496	120pF 5% 2kV	2504	4822 126 11254	330pF 10% 2kV	3032			
1200	4822 070 32502	2255	4822 122 32142	270pF 5% 63V	2510	4822 122 30057	2,7nF 10% 100V	3033			
1250	4822 071 52501	2258	5322 121 42502	390nF 5% 63V	2511	4822 124 41739	47μF 20% 180V	3034			
		2260	4822 122 31727	470pF 5% 63V	2512	4822 124 40435	10μF 20% 50V	3035			
		2261	5322 124 21189	100μF 20% 40V	2513	4822 124 40435	10μF 20% 50V	3036			
		2262	4822 122 31727	470pF 5% 63V	2517	4822 126 11157	470pF 10% 500V	3037			
		2263	4822 124 40849	330μF 20% 16V	2517	4822 122 32585	470pF 10% 500V	3040			
		2270	4822 124 40178	100μF 20% 10V	2518	4822 124 22449	4,7μF 30% 350V	3041			
		2272	4822 122 33496	100nF 10% 63V	2519	4822 124 41831	1μF 20% 180V	3044			
2001	4822 122 31784	2277	4822 122 33496	100nF 10% 63V	2520	4822 121 51527	390nF 5% 250V	3049			
2002	4822 122 31784	2302	4822 122 31965	220pF 5% 63V	2520	4822 121 43844	300nF 5% 250V	3050			
2003	4822 126 11175	2303	4822 122 31808	150pF 10% 50V	2521	4822 121 51563	580nF 5% 250V	3051			
2004	4822 122 32142	2308	4822 122 32891	68nF 10% 63V	2521	4822 121 51528	470nF 5% 250V	3052			
2005	4822 122 32142	2321	4822 121 43047	1μF 10% 63V	2521	4822 121 43397	680nF 5% 250V	3053			
2007	4822 122 31797	2331	4822 122 32891	68nF 10% 63V	2523	5322 121 41603	10nF 5% 2kV	3054			
2008	4822 122 31797	2351	4822 121 41854	150nF 5% 63V	2523	4822 122 33382	9,1nF 5% 2000V	3060			
2009	4822 126 11175	2360	4822 122 31981	33nF + -0,5pF 50V	2524	4822 121 51564	24nF 5% 400V	3065			
2010	4822 122 32597	2361	4822 121 42589	82nF 5% 63V	2524	4822 121 43845	18nF 5% 400V	3066			
2012	4822 122 32927	2365	5322 122 32838	82nF 10% 63V	2528	4822 121 40336	47nF 10% 250V	3087			
2013	4822 122 32927	2372	5322 121 42502	390nF 5% 63V	2529	4822 124 23491	0,47μF 20% 50V	3088			
2014	4822 122 32597	2376	4822 124 40272	33μF 20% 16V	2530	5322 122 33448	3,3nF 10% 63V	3069			
2015	4822 124 42109	2380	4822 122 33496	100nF 10% 63V	2530	4822 122 31797	22nF 10% 63V	3072			
2016	4822 124 42109	2381	4822 122 33496	100nF 10% 63V	2533	5322 122 32818	2,2nF 10% 100V	3073			
2018	4822 122 31797	2382	4822 122 33496	100nF 10% 63V	2534	4822 126 11494	2,2nF 10% 500V	3074			
2019	4822 122 31414	2386	5322 122 31647	1nF 10% 63V	2535	4822 124 23488	1000μF 20% 35V	3201			
2020	4822 122 31414	2400	4822 122 31772	47pF 5% 50V	2536	4822 126 11502	470pF 10% 500V	3202			
2021	4822 121 31414	2401	4822 122 33496	100nF 10% 63V	2536	4822 122 32585	470pF 10% 500V	3204			
2022	4822 122 31414	2402	4822 124 41576	2,2μF 20% 50V	2537	4822 124 40184	1000μF 20% 10V	3204			
2023	5322 122 33446	2403	4822 124 41678	22μF 20% 25V	2541	4822 124 42184	33μF 20% 25V	3204			
2024	5322 122 33446	2404	4822 124 40435	10μF 20% 50V	2542	4822 124 22466	1μF 20% 50V	3210			
2026	4822 122 32927	2405	4822 122 33496	100nF 10% 63V	2543	4822 124 23495	10μF 20% 25V	3211			
2027	4822 122 32927	2406	4822 121 42937	2,7nF 1% 250V	2546	4822 122 33496	100nF 10% 63V	3212			

Large signal panel (continued)

% 63V	2547	4822 122 33808	39nF 10% 63V	3213	4822 051 10823	82k 2% 0,25W	3382	4822 051 10103
0% 100V	2551	4822 124 40195	150µF 20% 16V	3215	4822 051 10272	2k7,2% 0,25W	3383	4822 051 10103
% 63V	2600	4822 124 22427	47µF 20% 35V	3216	4822 115 90309	56Ω 10% 5W	3387	4822 051 10223
% 50V	2601	4822 122 33808	39nF 10% 63V	3240	4822 116 52234	100k 5% 0,5W	3400	4822 051 10332
% 50V	2604	4822 122 31773	580pF 5% 50V	3241	4822 113 80557	30Ω 10% 5W	3402	4822 051 10562
% 63V	2604	4822 122 32765	820pF 10% 63V	3242	4822 051 10122	1k2 2% 0,25W	3403	4822 051 10229
% 63V	2604	4822 122 31985	220pF 5% 63V	3243	4822 116 52226	560Ω 5% 0,5W	3404	4822 051 10821
% 63V	2604	4822 122 31765	100pF 5% 50V	3244	4822 116 52211	150Ω 5% 0,5W	3405	4822 051 10303
% 63V	2605	4822 122 31784	4,7nF 10% 50V	3245	4822 116 52226	560Ω 5% 0,5W	3406	4822 100 11483
% 18V	2605	4822 122 32856	8,2nF 10% 63V	3247	4822 051 20222	2k2 5% 0,1W	3407	4822 051 10331
50V	2605	4822 122 32442	10nF 50V	3248	4822 051 20222	2k2 5% 0,1W	3408	4822 051 10333
0% 63V	2605	4822 122 31916	5,8nF 10% 63V	3249	4822 116 52258	220k 5% 0,5W	3409	4822 116 52288
0% 63V	2606	5322 122 33446	3,3nF 10% 63V	3250	4822 116 52198	62Ω 5% 0,5W	3409	4822 116 52275
V 250V	2606	4822 122 33498	2,7nF 10% 63V	3251	4822 051 10102	1k 2% 0,25W	3409	4822 116 52278
250V	2609	4822 121 41854	150nF 5% 63V	3252	4822 116 52258	220k 5% 0,5W	3410	4822 100 11731
% 50V	2610	4822 124 41576	2,2µF 20% 50V	3253	4822 116 82738	10k 10%	3411	4822 051 10683
V	2611	4822 124 41576	2,2µF 20% 50V	3255	4822 116 52243	1k5 5% 0,5W	3411	4822 116 81202
% 63V	2613	5322 122 33446	3,3nF 10% 63V	3266	4822 051 10151	150Ω 2% 0,25W	3411	4822 051 10823
0% 63V	2613	4822 122 31784	4,7nF 10% 50V	3267	4822 051 10101	100Ω 2% 0,25W	3413	4822 051 10101
0% 63V	2614	5322 122 32838	82nF 10% 63V	3268	4822 053 11689	68Ω 5% 2W	3414	4822 051 10154
0% 63V				3270	4822 051 10118	1Ω 5% 0,25W	3415	4822 100 11392
				3271	4822 053 10399	39Ω 5% 1W	3416	4822 116 52278
				3272	4822 116 90536	120Ω 1% 0,125W	3417	4822 116 52256
				3273	4822 051 10472	4k7 2% 0,25W	3418	4822 051 10271
				3274	4822 051 10102	1k 2% 0,25W	3419	4822 052 10159
				3275	4822 116 52206	120Ω 5% 0,5W	3420	4822 116 83006
				3298	4822 051 10339	33Ω 2% 0,25W	3420	4822 050 23905
				3298	4822 051 10279	27Ω 2% 0,25W	3421	4822 116 52233
				3298	4822 051 10229	22Ω 2% 0,25W	3422	4822 116 83029
				3298	4822 051 10399	39Ω 2% 0,25W	3424	4822 051 10221
				3300	4822 053 10753	75k 5% 1W	3427	4822 051 10332
				3304	4822 051 10473	47k 2% 0,25W	3428	4822 116 52271
				3305	4822 051 10392	3k9 2% 0,25W	3429	4822 116 52276
				3306	4822 051 10823	82k 2% 0,25W	3430	4822 051 10471
				3308	4822 053 12151	150Ω 5% 3W	3431	4822 051 10563
				3309	4822 051 10103	10k 2% 0,25W	3432	4822 051 10122
				3310	4822 050 11109	11Ω 1% 0,4W	3434	4822 100 11642
				3311	4822 051 10471	470Ω 2% 0,25W	3435	4822 051 10124
				3312	4822 051 10101	100Ω 2% 0,25W	3437	4822 051 10122
				3313	4822 050 11109	11Ω 1% 0,4W	3438	4822 116 52249
				3314	4822 116 52223	430Ω 5% 0,5W	3440	4822 051 10123
				3315	4822 116 52223	430Ω 5% 0,5W	3441	4822 051 10822
				3317	4822 051 10682	6k8 2% 0,25W	3445	4822 051 10105
				3320	4822 051 10471	470Ω 2% 0,25W	3446	4822 116 52251
				3321	4822 051 10471	470Ω 2% 0,25W	3447	4822 116 52233
				3322	4822 051 10471	470Ω 2% 0,25W	3450	4822 051 10432
				3331	4822 116 52267	30k 5% 0,5W	3451	4822 051 10432
				3332	4822 116 52233	10k 5% 0,5W	3452	4822 116 52227
				3351	4822 052 11279	27Ω 5% 0,5W	3454	4822 116 52227
				3356	4822 051 10102	1k 2% 0,25W	3455	4822 051 10472
2kV	3054	4822 110 42205	4M7 5% 0,5W	3357	4822 050 11102	1k1 1% 0,4W	3455	4822 051 10392
2000V	3060	4822 051 10109	10Ω 2% 0,25W	3358	4822 116 52182	15Ω 5% 0,5W	3456	4822 051 10183
400V	3065	4822 051 10183	18k-2% 0,25W	3360	4822 051 10122	1k2 2% 0,25W	3456	4822 051 10104
400V	3066	4822 051 10183	18k 2% 0,25W	3362	4822 051 10151	150Ω 2% 0,25W	3456	4822 051 10114
% 250V	3067	4822 116 52296	6k8 5% 0,5W	3364	4822 051 10471	470Ω 2% 0,25W	3457	4822 051 10153
0% 50V	3068	4822 116 52207	1k2 5% 0,5W	3365	4822 051 10221	220Ω 2% 0,25W	3457	4822 051 10822
% 63V	3069	4822 051 10752	7k5 2% 0,25W	3366	4822 051 10221	220Ω 2% 0,25W	3458	4822 116 80178
% 63V				3368	4822 116 52226	560Ω 5% 0,5W	3459	4822 116 80178
% 100V	3072	4822 051 10479	47Ω 2% 0,25W	3369	4822 116 52226	560Ω 5% 0,5W	3461	5322 116 82222
% 500V	3073	4822 116 52257	22k 5% 0,5W	3370	4822 051 10332	3k3 2% 0,25W	3462	5322 116 82222
20% 35V	3074	4822 051 10103	10k 2% 0,25W	3371	4822 100 11348	1k 30% LIN	3463	4822 116 82739
% 500V	3201	4822 110 42205	4M7 5% 0,5W	3372	4822 051 10561	560Ω 2% 0,25W	3465	4822 051 10681
% 500V	3202	4822 110 42205	4M7 5% 0,5W	3374	4822 116 52301	75k 5% 0,5W	3466	4822 116 52263
20% 10V	3204	4822 116 40033	NTC/PTC	3375	4822 051 10242	2k4 2% 0,25W	3467	4822 100 20168
% 25V	3204	4822 116 40215	PTC	3378	4822 116 52175	100Ω 5% 0,5W	3468	4822 053 12221
50V	3209	4822 113 80384	1Q5 10% 7W	3378	4822 051 10101	100Ω 2% 0,25W	3468	4822 053 12331
% 25V	3210	4822 116 52239	120k 5% 0,5W	3380	4822 051 10152	1k5 2% 0,25W	3469	4822 051 10153
0% 63V	3211	4822 116 52239	120k 5% 0,5W	3381	4822 051 10152	1k5 2% 0,25W	3469	4822 116 52228
	3212	4822 116 52234	100k 5% 0,5W					680Ω 5% 0,5W

Large signal panel (continued)

3469 4822 116 52229 750Ω 5% 0,5W	3605 4822 051 10203 20k 2% 0,25W	5308 4822 157 62826 270µH 10%	6375	
3469 4822 116 52283 4k7 5% 0,5W	3606 4822 051 10333 33k 2% 0,25W	5310 4822 157 51216 5,6µH 10%	6376	
3473 4822 116 52253 2k 5% 0,5W	3606 4822 051 10223 22k 2% 0,25W	5381 4822 157 52265 100µH 10%	6403	
3474 4822 051 10683 88k 2% 0,25W	3607 4822 100 11213 22k 30% LIN	5503 4822 142 40328 transf. LINE	6404	
3480 4822 116 52234 100k 5% 0,5W	3608 4822 051 10102 1k 2% 0,25W	5510 4822 157 62825 82µH 10%	6417	
3481 4822 051 10102 1k 2% 0,25W	3609 4822 051 10473 47k 2% 0,25W	5511 4822 157 52407 39µH 7,5%	6451	
3482 4822 051 10229 22Ω 2% 0,25W	3610 4822 051 10472 4k7 2% 0,25W	5514 4822 157 53861 coil CU15	6452	
3485 4822 051 10102 1k 2% 0,25W	3611 4822 051 20222 2k2 5% 0,1W	5520 4822 157 52888 AT4042/92	6465	
3500 4822 116 80176 1Ω 5% 0,5W	3612 4822 116 52286 5k1 5% 0,5W	5520 4822 157 63286 coil LIN 21"	6466	
3502 4822 116 52238 12k 5% 0,5W	3614 4822 051 10151 150Ω 2% 0,25W	5520 4822 156 50086 AT4042/92B 33"	6480	
3503 4822 116 52238 12k 5% 0,5W	3615 4822 116 52224 470Ω 5% 0,5W	5521 4822 157 62827 linearity	6515	
3507 4822 116 52193 39Ω 5% 0,5W	3616 4822 051 10332 3k3 2% 0,25W	5521 4822 157 62938 linearity 21"	6516	
3508 4822 116 80523 2k2 10% 5W	3617 4822 051 20222 2k2 5% 0,1W	5526 4822 157 62828 east-west	6517	
3508 4822 116 82379 3k9 10% 5W	3618 4822 051 10104 100k 2% 0,25W	5534 4822 158 10551 27µH 7,5%	6519	
3508 4822 116 53418 2k7 10% 5W	3619 4822 051 20222 2k2 5% 0,1W	5543 4822 158 10551 27µH 7,5%	6520	
3509 4822 053 21104 100k 5% 0,5W	3620 4822 051 10622 6k2 2% 0,25W	5548 4822 526 10494 ferrite bead	6522	
3510 4822 053 12151 150Ω 5% 3W	3621 4822 051 10114 110k 2% 0,25W	5555 4822 140 10408 L.O.T.	6525	
3510 4822 053 12221 220Ω 5% 3W	3621 4822 051 10104 100k 2% 0,25W	5555 4822 140 10412 L.O.T. 21"	6529	
3512 4822 051 10331 330Ω 2% 0,25W	3622 4822 116 80176 1Ω 5% 0,5W		6534	
3513 4822 100 11319 4k7 30% LIN	3624 4822 116 52215 220Ω 5% 0,5W		6537	
3514 4822 116 52206 120Ω 5% 0,5W	3625 4822 116 52215 220Ω 5% 0,5W			
3515 4822 052 10108 1Ω 5% 0,33W	3626 4822 116 52304 82k 5% 0,5W	6000 4822 130 80446 LL4148	6542	
3516 4822 052 10108 1Ω 5% 0,33W	3626 4822 116 52297 68k 5% 0,5W	6001 4822 130 80446 BAS32L	6546	
3517 4822 052 11688 6Ω8 5% 0,5W	3626 4822 116 52242 130k 5% 0,5W	6008 4822 209 73095 P4kE30C-7000	6547	
3518 4822 116 52267 30k 5% 0,5W	3626 4822 116 52239 120k 5% 0,5W	6010 4822 130 80446 LL4148	6551	
3519 4822 116 52267 30k 5% 0,5W	3627 4822 051 10103 10k 2% 0,25W	6011 4822 130 80446 LL4148	6601	
3520 4822 052 11152 1k5 5% 0,5W	3628 4822 116 52234 100k 5% 0,5W	6012 4822 130 80446 LL4148	6629	
3521 4822 052 11152 1k5 5% 0,5W	3629 4822 051 10154 150k 2% 0,25W	6016 4822 130 80446 LL4148		
3523 4822 116 52233 10k 5% 0,5W	3630 4822 051 10104 100k 2% 0,25W	6021 4822 130 80446 LL4148		
3527 4822 051 10102 1k 2% 0,25W	3631 4822 051 10182 1k8 2% 0,25W	6210 4822 130 33887 GP15J-16	7000	
3528 4822 116 52224 470Ω 5% 0,5W	4405 4822 051 10271 270Ω 2% 0,25W	6211 4822 130 33887 GP15J-16	7002	
3528 4822 116 52256 2k2 5% 0,5W		6212 4822 130 33887 GP15J-16	7003	
3528 4822 050 11002 1k 1% 0,4W		6213 4822 130 33887 GP15J-16	7005	
3529 4822 051 10104 100k 2% 0,25W		6216 4822 130 42806 BYD33J	7006	
3530 4822 051 10474 470k 2% 0,25W		6231 4822 130 80791 BYV28-200/20	7007	
3532 4822 116 52211 150Ω 5% 0,5W	4000 4822 051 10008 0Ω 5% 0,25W	6233 4822 130 80791 BYV28-200/20	7008	
3533 4822 116 52211 150Ω 5% 0,5W	4002 4822 051 10008 0Ω 5% 0,25W	6235 4822 130 81104 MA689	7009	
3534 4822 052 11278 2Ω7 5% 0,5W	4003 4822 051 10008 0Ω 5% 0,25W	6237 4822 130 80572 RGP30J-L7004	7010	
3535 4822 052 11278 2Ω7 5% 0,5W	4005 4822 051 10008 0Ω 5% 0,25W	6238 4822 130 80572 RGP30J-L7004	7011	
3536 4822 116 52215 220Ω 5% 0,5W	4006 4822 051 10008 0Ω 5% 0,25W	6246 4822 130 82347 LLZ-F6V8	7012	
3537 4822 116 52206 120Ω 5% 0,5W	4014 4822 051 10008 0Ω 5% 0,25W	6251 4822 130 80954 LLZ-C5V6	7013	
3538 4822 116 52241 13k 5% 0,5W	4019 4822 051 10008 0Ω 5% 0,25W	6260 4822 130 80446 LL4148	7201	
3538 4822 116 52238 12k 5% 0,5W	4400 4822 051 10008 0Ω 5% 0,25W	6262 4822 130 42488 BYD33D	7216	
3540 4822 116 52267 30k 5% 0,5W	4402 4822 051 10008 0Ω 5% 0,25W	6266 4822 130 34278 BZX79-B6V8	7241	
3540 4822 116 52267 30k 5% 0,5W	4404 4822 051 10008 0Ω 5% 0,25W	6272 4822 130 34173 BZX55-B5V6	7242	
3541 4822 116 52285 470k 5% 0,5W	4410 4822 051 10008 0Ω 5% 0,25W	6280 4822 130 30621 1N4148	7243	
3542 4822 051 10104 100k 2% 0,25W	4412 4822 051 10008 0Ω 5% 0,25W	6302 4822 130 80446 LL4148	7250	
3542 4822 051 10913 91k 2% 0,25W	4413 4822 051 10008 0Ω 5% 0,25W	6303 4822 130 80446 LL4148	7251	
3543 4822 051 10242 2k4 2% 0,25W	4415 4822 051 10008 0Ω 5% 0,25W	6304 4822 130 80446 LL4148	7268	
3543 4822 051 10302 3k 2% 0,25W	4416 4822 051 10008 0Ω 5% 0,25W	6306 5322 130 31504 BZX79-B3V3	7270	
3544 4822 051 10393 39k 2% 0,25W	4417 4822 051 10008 0Ω 5% 0,25W	6308 4822 130 42488 BYD33D	7272	
3545 4822 116 52208 130Ω 5% 0,5W	4533 4822 051 10008 0Ω 5% 0,25W	6312 4822 130 42488 BYD33D	7273	
3546 4822 051 10183 18k 2% 0,25W	4534 4822 051 10008 0Ω 5% 0,25W	6315 4822 130 80446 LL4148	7305	
3547 4822 051 10518 5Ω1 5% 0,25W	4541 4822 051 10008 0Ω 5% 0,25W	6318 4822 130 80446 LL4148	7311	
3548 4822 051 10392 3k9 2% 0,25W		6319 4822 130 34173 BZX79-C5V6	7312	
3549 4822 051 10124 120k 2% 0,25W		6331 4822 130 80446 LL4148	7318	
3550 4822 116 52228 560Ω 5% 0,5W	5202 4822 158 30224 transf. assy	6349 4822 130 80446 LL4148	7320	
3551 4822 051 10569 56Ω 2% 0,25W	5230 4822 146 30957 SOPS	6350 4822 130 80446 LL4148	7360	
3601 4822 051 10104 100k 2% 0,25W	5231 4822 526 10494 ferrite bead	6351 4822 130 80446 LL4148	7369	
3602 4822 100 20166 10k 30% LIN	5233 4822 526 10494 ferrite bead	6352 4822 130 80446 LL4148	7370	
3603 4822 051 20183 18k 5% 0,1W	5235 4822 526 10494 ferrite bead	6353 4822 130 80446 LL4148	7371	
3603 4822 051 10822 8k2 2% 0,25W	5237 4822 526 10494 ferrite bead	6355 4822 130 80446 LL4148	7380	
3603 4822 051 10103 10k 2% 0,25W	5241 4822 157 63249 33µH 10%	6356 4822 130 80886 BZV55-F22	7381	
3604 4822 051 10754 750k 2% 0,25W	5255 4822 146 30955 transf. assy	6357 4822 130 80446 LL4148	7384	
3604 4822 051 10434 430k 2% 0,25W	5255 4822 146 30955 transf. assy	6370 4822 130 81512 LLZ-C8V2	7385	
3604 4822 051 10105 1M 5% 0,25W	5260 4822 526 10494 ferrite bead	6371 4822 130 80446 LL4148	7400	
3605 4822 051 10513 51k 2% 0,25W	5262 4822 526 10494 ferrite bead	6372 4822 130 80446 LL4148	7401	
3605 4822 116 81202 62k 1% 0,125W		6373 4822 130 82583 BZV55-C9V1	7402	

Large signal panel (continued)

 6375 4822 130 80446 LL4148 6376 4822 130 80922 LLZ-C18 6403 4822 130 80446 LL4148 6404 4822 130 80446 BAS32L 6417 4822 130 81223 LLZ-C2V4 6451 4822 130 34382 BZX79-C8V2 6452 4822 130 42488 BYD33D 6465 4822 130 80446 BAS32L 6466 4822 130 80446 BAS32L 6480 4822 130 31554 BZX79-C4V3 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 6522 4822 130 41275 BY228/20 6525 4822 130 80572 RGP30J-L7004 6529 4822 130 34329 BZX79-B43 6534 4822 130 82353 BYD34G 6537 4822 130 80572 RGP30J-L7004 6542 4822 130 30842 BAV21 6546 4822 130 80446 BAS32L 6547 4822 130 80446 BAS32L 6551 4822 130 34278 BZX79-B6V8 6601 4822 130 42488 BYD33D <u>6629 4822 130 80446 BAS32L</u>	 7403 4822 130 42513 BC858C 7407 4822 130 61207 BC848 7417 4822 130 42513 BC858C 7445 5322 130 42136 BC848C 7448 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 7501 4822 130 42159 TBF819 7506 4822 130 61265 BU508AF 7512 4822 130 44196 BC548C 7513 5322 130 80068 BC558C 7530 4822 130 61233 BC857 7540 5322 130 42136 BC848C 7541 5322 130 42136 BC848C 7542 4822 130 42513 BC858C 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 <u>7616 4822 130 61207 BC848</u> <u>7618 4822 130 61207 BC848</u>	
 7000 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 63296 TDA2613Q 7012 4822 130 61207 BC848 7013 4822 130 61207 BC848 7201 5322 130 42758 BC857C 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 7318 4822 130 42615 BC817-40 7320 4822 130 82034 CNX83A 7360 5322 130 42758 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 63297 TDA2579B/N1 7401 4822 209 63299 TDA2595/V9 7402 5322 130 42136 BC848C		

Small signal panel C D F H

Small

Connectors								
4822 265 40252 7P	2193	4822 122 32153	1,8nF 10% 63V	2386	4822 122 32862	10nF 80% 50V		
4822 265 40253 8P	2194	4822 122 32153	1,8nF 10% 63V	2387	4822 124 40435	10µF 20% 50V		
4822 265 40253 8P	2196	4822 124 22606	68µF 20% 16V	2388	5322 122 33446	3,3nF 10% 63V		
4822 265 41113 7P male	2197	4822 124 22606	68µF 20% 16V	2390	4822 122 32863	22nF 80% 50V		
4822 265 41114 8P male	2216	4822 122 32893	100nF 80% 50V	2391	4822 122 32863	22nF 80% 50V		
4822 265 41114 8P male	2219	4822 122 32927	220nF	2392	4822 122 32863	22nF 80% 50V		
4822 265 41086 9P male.	2224	4822 122 32927	220nF	2433	4822 122 32863	22nF 80% 50V		
4822 265 41082 10P	2234	4822 122 32927	220nF	2434	4822 122 32863	22nF 80% 50V		
4822 290 40295 7P	2240	4822 122 32927	220nF	2435	4822 122 32863	22nF 80% 50V		
4822 267 40648 5P male gold plated	2241	4822 121 42408	220nF 5% 63V	2438	4822 122 32863	22nF 80% 50V		
4822 264 50149 10P male gold plated	2250	4822 122 32893	100nF 80% 50V	2440	4822 122 32863	22nF 80% 50V		
4822 265 30828 5P male	2251	4822 122 32893	100nF 80% 50V	2442	4822 122 32863	22nF 80% 50V		
4822 267 40648 5P male gold plated	2253	4822 126 11492	220nF 10% 50V	2445	4822 122 32893	100nF 80% 50V		
4822 265 30437 3P	2254	4822 122 32927	220nF	2446	4822 122 32893	100nF 80% 50V		
4822 265 30437 3P	2255	4822 124 41643	100µF 20% 16V	2447	4822 122 32893	100nF 80% 50V		
Various parts	2257	4822 122 32893	100nF 80% 50V	2451	5322 121 42861	330nF 5% 63V		
	2258	4822 122 31765	100pF 5% 50V	2452	4822 124 40242	1µF 20% 63V		
	2260	4822 122 32893	100nF 80% 50V	2453	4822 122 31774	56pF 5% 50V		
	2269	4822 122 32482	22pF 5% 63V	2454	4822 122 32444	33pF 5% 50V		
	2274	4822 122 32862	10nF 80% 50V	2455	4822 122 32444	33pF 5% 50V		
4822 267 20411 socket SCART + 2xCINCH	2301	5322 122 31847	1nF 10% 63V	2456	4822 122 32444	33pF 5% 50V		
4822 267 51058 socket SCART	2305	4822 122 32444	33pF 5% 50V	2476	4822 124 40435	10µF 20% 50V		
4822 267 80308 socket 2xCINCH + 1xSVIDEO	2306	4822 122 31772	47pF 5% 50V	2479	4822 122 33105	56nF 10% 63V		
4822 267 51098 socket HEADPH. + CINCH	2310	4822 122 31961	68pF 5% 63V	2480	4822 124 40272	33µF 20% 16V		
4822 218 21016 keyboard	2311	4822 122 31765	100pF 5% 50V	2600	4822 122 32893	100nF 80% 50V		
4822 255 40901 socket 40 POLE	2312	4822 122 32863	22nF 80% 50V	2604	4822 122 32893	100nF 80% 50V		
1100 4822 212 23281 IR receiver	2318	4822 121 42408	220nF 5% 63V	2606	4822 122 32893	100nF 80% 50V		
1160 4822 210 10409 FQ818ME/IF	2320	4822 121 51412	560nF 10% 63V	2608	4822 122 32927	220nF		
1160 4822 210 10415 FQ818/IF	2322	4822 121 51412	560nF 10% 63V	2620	4822 122 32927	220nF		
1160 4822 210 10416 FQ818MF/IF	2324	4822 122 32863	22nF 80% 50V	2622	4822 122 32927	220nF		
1160 4822 210 10412 FQ844	2326	4822 122 31765	100pF 5% 50V	2624	5322 122 31842	330pF 5% 63V		
1379 4822 242 70736 crystal 7,159 090 MHz	2327	4822 122 31765	100pF 5% 50V	2626	4822 121 42408	220nF 5% 63V		
	2328	4822 122 31765	100pF 5% 50V	2627	4822 124 41878	22µF 20% 25V		
	2330	5322 122 31842	330pF 5% 63V	2628	5322 122 31842	330pF 5% 63V		
1380 4822 242 70304 crystal 8,867 238 MHz	2331	5322 122 31842	330pF 5% 63V	2630	4822 122 32927	220nF		
	2338	4822 122 31972	39pF 5% 50V	2632	5322 122 31842	330pF 5% 63V		
1602 4822 242 80276 crystal 10MHz	2338	4822 122 31772	47pF 5% 50V	2634	4822 121 42408	220nF 5% 63V		
	2339	4822 122 31772	47pF 5% 50V	2636	5322 122 31842	330pF 5% 63V		
	2342	4822 122 31972	39pF 5% 50V	2638	4822 121 42408	220nF 5% 63V		
2100 4822 124 40684 150µF 20% 6,3V	2343	4822 122 31727	470pF 5% 63V	2640	5322 122 31842	330pF 5% 63V		
2111 4822 122 32863 22nF 80% 50V	2344	4822 122 31775	680pF 5% 50V	2642	4822 122 32927	220nF		
2118 4822 122 31797 22nF 10% 63V	2345	4822 122 31807	1200pF 5% 50V	2644	5322 122 31842	330pF 5% 63V		
2119 4822 122 31797 22nF 10% 63V	2347	5322 122 31847	1nF 10% 63V	2646	4822 122 32927	220nF		
2120 4822 122 32863 22nF 80% 50V	2353	4822 122 32862	10nF 80% 50V	2658	4822 122 31961	68pF 5% 63V		
2121 5322 122 31847 1nF 10% 63V	2360	4822 124 40272	33µF 20% 16V	2659	4822 122 31961	68pF 5% 63V		
2122 4822 122 32442 10nF 50V	2361	4822 124 40849	330µF 20% 16V	2660	5322 122 31847	1nF 10% 63V		
2123 4822 126 11804 330nF	2365	4822 122 31352	180pF 2% 100V	2662	5322 122 31847	1nF 10% 63V		
2130 4822 122 31797 22nF 10% 63V	2366	4822 122 32863	22nF 80% 50V	2664	4822 122 32153	1,8nF 10% 63V		
2131 4822 124 22606 68µF 20% 16V	2367	4822 122 32862	10nF 80% 50V	2666	4822 122 32153	1,8nF 10% 63V		
2132 4822 122 31797 22nF 10% 63V	2368	4822 122 32862	10nF 80% 50V	2680	4822 122 32893	100nF 80% 50V		
2137 4822 122 32442 10nF 50V	2369	4822 122 31825	27pF 10% 50V	2681	4822 122 32542	47nF 10% 63V		
2138 4822 124 40193 68µF 20% 16V	2371	4822 122 31825	27pF 10% 50V	2682	4822 124 40195	150µF 20% 16V		
2160 4822 124 40849 330µF 20% 16V	2372	4822 122 31965	220pF 5% 63V	2684	4822 121 51252	470nF 5% 63V		
2161 4822 122 33496 100nF 10% 63V	2373	4822 122 31965	220pF 5% 63V	2686	4822 121 51252	470nF 5% 63V		
2163 4822 122 33496 100nF 10% 63V	2374	4822 122 32863	22nF 80% 50V	2688	4822 122 31782	15nF 10% 50V		
2164 4822 122 33496 100nF 10% 63V	2374	4822 051 10008	0Q 5% 0,25W	2690	4822 122 31782	15nF 10% 50V		
2166 4822 124 40684 150µF 20% 6,3V	2375	4822 122 32863	22nF 80% 50V	2692	4822 122 31981	33nF + -0,5pF 50V		
2168 4822 122 32927 220nF	2376	5322 122 31641	47nF 50V	2698	4822 122 31916	5,6nF 10% 63V		
2169 4822 122 32442 10nF 50V	2377	5322 121 42681	330nF 5% 63V	2694	4822 122 31916	5,6nF 10% 63V		
2170 4822 124 40195 150µF 20% 16V	2378	4822 122 32893	100nF 80% 50V	2696	4822 122 31981	33nF + -0,5pF 50V		
2171 4822 122 32862 10nF 80% 50V	2379	4822 125 50207	33pF trim.	2697	4822 122 31965	220pF 5% 63V		
2172 4822 124 41506 47µF 20% 16V	2380	4822 125 50207	33pF trim.	2698	4822 122 31916	5,6nF 10% 63V		
2188 4822 122 32863 22nF 80% 50V	2381	5322 121 42681	330nF 5% 63V	2699	4822 122 31965	220pF 5% 63V		
2189 4822 122 32863 22nF 80% 50V	2382	5322 122 31647	1nF 10% 63V	2700	4822 124 40242	1µF 20% 63V		
2190 4822 122 32863 22nF 80% 50V	2383	4822 122 32442	10nF 50V	2702	4822 124 40242	1µF 20% 63V		
2191 4822 122 32863 22nF 80% 50V	2384	5322 122 31647	1nF 10% 63V	2704	4822 122 31844	2,2nF 10% 63V		

Small signal panel (continued)

% 50V	2706	4822 124 41678	22μF 20% 25V	3166	4822 052 10228	2Q2 5% 0,33W	3285	4822 051 10103	10k 2% 0,25W
% 50V	2707	4822 122 31784	4,7nF 10% 50V	3167	4822 051 10122	1k2 2% 0,25W	3286	4822 051 10103	10k 2% 0,25W
% 63V	2714	4822 122 32863	22nF 80% 50V	3168	4822 051 10242	2k4 2% 0,25W	3300	4822 051 10103	10k 2% 0,25W
% 50V	2716	4822 122 32597	6,8nF 10% 63V	3169	4822 050 11002	1k 1% 0,4W	3301	4822 051 10332	3k3 2% 0,25W
% 50V	2720	4822 124 41678	22μF 20% 25V	3170	4822 116 82772	3Q9 5% 0,3W	3303	4822 051 10241	240Ω 2% 0,25W
% 50V	2721	4822 122 31784	4,7nF 10% 50V	3171	4822 052 11511	510Ω 5% 0,5W	3304	4822 051 10241	240Ω 2% 0,25W
% 50V	2726	4822 122 31844	2,2nF 10% 63V	3172	4822 052 10229	22Ω 5% 0,33W	3305	4822 051 10104	100k 2% 0,25W
% 50V	2727	4822 124 42108	33μF 20% 18V	3175	4822 051 10153	15k 2% 0,25W	3306	4822 051 10241	240Ω 2% 0,25W
% 50V	2728	4822 124 42108	33μF 20% 18V	3176	4822 051 10103	10k 2% 0,25W	3310	4822 116 52207	1k2 5% 0,5W
% 50V	2734	4822 122 32863	22nF 80% 50V	3177	4822 051 10103	10k 2% 0,25W	3311	4822 051 10132	1k3 2% 0,25W
% 50V	2736	4822 122 32597	6,8nF 10% 63V	3178	4822 051 10223	22k 2% 0,25W	3312	4822 051 10511	510Ω 2% 0,25W
% 50V				3180	4822 116 52224	470Ω 5% 0,5W	3313	4822 051 10302	3k 2% 0,25W
0% 50V				3181	4822 051 10822	8k2 2% 0,25W	3314	4822 051 10102	1k 2% 0,25W
0% 50V				3182	4822 116 52214	200Ω 5% 0,5W	3315	4822 051 10103	10k 2% 0,25W
0% 50V	3100	4822 051 10102	1k 2% 0,25W	3183	4822 116 52233	10k 5% 0,5W	3318	4822 051 10112	1k1 2% 0,25W
% 63V	3101	4822 116 52175	100Ω 5% 0,5W	3184	4822 116 90536	120Ω 1% 0,125W	3317	4822 116 52233	10k 5% 0,5W
% 63V	3104	4822 116 52175	100Ω 5% 0,5W	3185	4822 051 10471	470Ω 2% 0,25W	3324	4822 051 10223	22k 2% 0,25W
% 50V	3105	4822 051 10101	100Ω 2% 0,25W	3186	4822 116 52256	2k2 5% 0,5W	3325	4822 051 10682	6k8 2% 0,25W
% 50V	3113	4822 116 52175	100Ω 5% 0,5W	3187	4822 051 10759	75Ω 2% 0,25W	3326	4822 051 10103	10k 2% 0,25W
% 50V	3114	4822 116 52175	100Ω 5% 0,5W	3188	4822 051 10102	1k 2% 0,25W	3327	4822 051 10122	1k2 2% 0,25W
% 50V	3115	4822 116 52175	100Ω 5% 0,5W	3189	4822 051 10223	22k 2% 0,25W	3328	4822 051 10271	270Ω 2% 0,25W
% 50V	3117	4822 051 20222	2k2 5% 0,1W	3190	4822 051 10823	82k 2% 0,25W	3329	4822 051 10108	1Ω 5% 0,25W
% 63V	3119	4822 051 20222	2k2 5% 0,1W	3191	4822 051 10473	47k 2% 0,25W	3329	4822 051 10392	3k9 2% 0,25W
% 18V	3120	4822 051 20222	2k2 5% 0,1W	3192	4822 051 10153	15k 2% 0,25W	3330	4822 051 10108	1Ω 5% 0,25W
0% 50V	3121	4822 051 10123	12k 2% 0,25W	3193	4822 051 10331	330Ω 2% 0,25W	3331	4822 051 10108	1Ω 5% 0,25W
0% 50V	3122	4822 051 10472	4k7 2% 0,25W	3194	4822 051 10331	330Ω 2% 0,25W	3336	4822 051 10472	4k7 2% 0,25W
0% 50V	3123	4822 051 10472	4k7 2% 0,25W	3196	4822 051 10473	47k 2% 0,25W	3338	4822 051 10391	390Ω 2% 0,25W
0% 50V	3124	4822 051 10101	100Ω 2% 0,25W	3197	4822 051 10473	47k 2% 0,25W	3339	4822 051 10153	15k 2% 0,25W
3125	4822 051 10101	100Ω 2% 0,25W	3205	4822 051 10759	75Ω 2% 0,25W	3339	4822 051 10391	390Ω 2% 0,25W	
	3126	4822 051 10101	100Ω 2% 0,25W	3206	4822 051 10759	75Ω 2% 0,25W	3342	4822 051 20222	2k2 5% 0,1W
	3127	4822 051 10101	100Ω 2% 0,25W	3207	4822 051 10759	75Ω 2% 0,25W	3344	4822 051 10273	27k 2% 0,25W
% 63V	3128	4822 051 10471	470Ω 2% 0,25W	3208	4822 051 10101	100Ω 2% 0,25W	3345	4822 051 10102	1k 2% 0,25W
% 63V	3129	4822 116 52175	100Ω 5% 0,5W	3209	4822 051 10101	100Ω 2% 0,25W	3350	4822 116 90536	120Ω 1% 0,125W
% 25V	3131	4822 116 52175	100Ω 5% 0,5W	3210	4822 051 10101	100Ω 2% 0,25W	3351	4822 051 10472	4k7 2% 0,25W
% 63V	3132	4822 116 52175	100Ω 5% 0,5W	3211	4822 116 52217	270Ω 5% 0,5W	3353	4822 051 10332	3k3 2% 0,25W
	3133	4822 051 10331	330Ω 2% 0,25W	3215	4822 051 10689	68Ω 2% 0,25W	3360	4822 052 10278	2Ω7 5% 0,33W
% 63V	3134	4822 116 52175	100Ω 5% 0,5W	3216	4822 052 10159	15Ω 5% 0,33W	3361	4822 051 10102	1k 2% 0,25W
% 63V	3135	4822 051 10101	100Ω 2% 0,25W	3217	4822 116 52224	470Ω 5% 0,5W	3369	4822 051 10331	330Ω 2% 0,25W
% 63V	3136	4822 051 10101	100Ω 2% 0,25W	3218	4822 051 10471	470Ω 2% 0,25W	3370	4822 100 11391	330Ω 30% LIN
	3137	4822 116 52183	18Ω 5% 0,5W	3219	4822 051 10471	470Ω 2% 0,25W	3371	4822 051 10431	430Ω 2% 0,25W
% 63V	3138	4822 116 52175	100Ω 5% 0,5W	3220	4822 051 10471	470Ω 2% 0,25W	3372	4822 051 10331	330Ω 2% 0,25W
% 63V	3139	4822 116 52175	100Ω 5% 0,5W	3222	4822 116 52217	270Ω 5% 0,5W	3376	4822 116 52286	5k1 5% 0,5W
% 63V	3140	4822 050 11002	1k 1% 0,4W	3224	4822 051 10759	75Ω 2% 0,25W	3377	4822 051 10332	3k3 2% 0,25W
% 63V	3141	4822 050 11002	1k 1% 0,4W	3232	4822 051 10102	1k 2% 0,25W	3377	4822 051 10103	10k 2% 0,25W
% 63V	3142	4822 050 11002	1k 1% 0,4W	3233	4822 051 10102	1k 2% 0,25W	3380	4822 050 11002	1k 1% 0,4W
% 63V	3143	4822 050 11002	1k 1% 0,4W	3234	4822 051 10759	75Ω 2% 0,25W	3383	4822 051 10103	10k 2% 0,25W
% 63V	3144	4822 050 11002	1k 1% 0,4W	3235	4822 051 10759	75Ω 2% 0,25W	3385	4822 051 10105	1M 5% 0,25W
% 63V	3145	4822 050 11002	1k 1% 0,4W	3237	4822 116 52217	270Ω 5% 0,5W	3387	4822 050 11002	1k 1% 0,4W
% 63V	3146	4822 050 11002	1k 1% 0,4W	3238	4822 116 52222	390Ω 5% 0,5W	3389	4822 051 10182	1k8 2% 0,25W
% 63V	3147	4822 116 52283	4k7 5% 0,5W	3239	4822 051 10271	270Ω 2% 0,25W	3390	4822 051 10911	910Ω 2% 0,25W
0% 50V	3148	4822 051 10473	47k 2% 0,25W	3240	4822 051 10759	75Ω 2% 0,25W	3399	4822 116 80176	1Ω 5% 0,5W
% 63V	3149	4822 051 10473	47k 2% 0,25W	3241	4822 051 10759	75Ω 2% 0,25W	3400	4822 051 10471	470Ω 2% 0,25W
0% 18V	3150	4822 051 10473	47k 2% 0,25W	3253	4822 051 10561	560Ω 2% 0,25W	3410	4822 116 52224	470Ω 5% 0,5W
% 63V	3151	4822 051 10562	5k6 2% 0,25W	3254	4822 052 10159	15Ω 5% 0,33W	3425	4822 116 52224	470Ω 5% 0,5W
% 63V	3152	4822 051 10103	10k 2% 0,25W	3255	4822 051 10101	100Ω 2% 0,25W	3426	4822 116 52224	470Ω 5% 0,5W
% 50V	3153	4822 051 10103	10k 2% 0,25W	3256	4822 051 10103	10k 2% 0,25W	3439	4822 051 10181	180Ω 2% 0,25W
% 50V	3154	4822 051 10152	1k5 2% 0,25W	3257	4822 051 10103	10k 2% 0,25W	3441	4822 051 10181	180Ω 2% 0,25W
+ -0,5pF	3155	4822 051 10104	100k 2% 0,25W	3259	4822 051 10103	10k 2% 0,25W	3443	4822 051 10181	180Ω 2% 0,25W
+ -0,5pF	3156	4822 051 10562	5k8 2% 0,25W	3260	4822 052 10159	15Ω 5% 0,33W	3450	4822 051 20222	2k2 5% 0,1W
0% 83V	3157	4822 050 11002	1k 1% 0,4W	3261	4822 051 10471	470Ω 2% 0,25W	3451	4822 051 10432	4k3 2% 0,25W
	3158	4822 050 11002	1k 1% 0,4W	3262	4822 051 10103	10k 2% 0,25W	3453	4822 051 10511	510Ω 2% 0,25W
	3159	4822 051 10303	10k 2% 0,25W	3263	4822 051 10689	68Ω 2% 0,25W	3454	4822 051 10101	100Ω 2% 0,25W
% 63V	3160	4822 052 10758	705 5% 0,33W	3264	4822 051 10471	470Ω 2% 0,25W	3455	4822 051 10101	100Ω 2% 0,25W
% 63V	3160	4822 052 10109	10Ω 5% 0,33W	3266	4822 051 10103	10k 2% 0,25W	3456	4822 051 10101	100Ω 2% 0,25W
% 63V	3161	4822 051 10103	10k 2% 0,25W	3267	4822 051 10103	10k 2% 0,25W	3465	4822 116 52283	4k7 5% 0,5W
% 63V	3162	4822 052 10758	705 5% 0,33W	3269	4822 051 10561	560Ω 2% 0,25W	3471	4822 116 52233	10k 5% 0,5W
% 63V	3163	4822 051 10223	22k 2% 0,25W	3272	4822 116 52228	680Ω 5% 0,5W	3472	4822 051 10682	6k8 2% 0,25W
% 63V	3164	4822 051 10101	10Ω 2% 0,25W	3281	4822 116 52201	75Ω 5% 0,5W	3473	4822 051 10362	3k6 2% 0,25W

Small signal panel (continued)

3475 4822 051 10124 120k 2% 0,25W	3734 4822 051 10828 8Ω 5% 0,25W	6117 4822 130 80906 LLZ-F7V5
3476 4822 051 10154 150k 2% 0,25W	Jumpers	6120 4822 130 80446 LL4148
3477 4822 116 52286 5k1 5% 0,5W		6121 4822 130 80446 LL4148
3478 4822 116 52175 100Ω 5% 0,5W		6130 4822 130 80446 LL4148
3479 4822 051 10223 22k 2% 0,25W		6163 4822 130 81226 LLZ-F33
3480 4822 052 10278 2Ω 7% 0,33W	4066 4822 051 10008 0Ω 5% 0,25W	6165 4822 130 80446 LL4148
3481 4822 052 10278 2Ω 7% 0,33W	4103 4822 051 10008 0Ω 5% 0,25W	6166 4822 130 80446 LL4148
3482 4822 116 52223 430Ω 5% 0,5W	4106 4822 051 10008 0Ω 5% 0,25W	6168 4822 130 80446 LL4148
3483 4822 116 52175 100Ω 5% 0,5W	4107 4822 051 10008 0Ω 5% 0,25W	6172 4822 130 80906 LLZ-C7V5
3492 4822 051 10471 47Ω 2% 0,25W	4108 4822 051 10008 0Ω 5% 0,25W	6173 4822 130 80446 LL4148
3600 4822 051 10362 3k6 2% 0,25W	4109 4822 051 10008 0Ω 5% 0,25W	6178 4822 130 81222 LLZ-C15
3600 4822 051 10472 4k7 2% 0,25W	4110 4822 051 10008 0Ω 5% 0,25W	6205 4822 130 80446 LL4148
3602 4822 100 11212 2k2 30% LIN	4112 4822 051 10008 0Ω 5% 0,25W	6206 4822 130 80446 LL4148
3603 4822 051 10332 3k3 2% 0,25W	4120 4822 051 10008 0Ω 5% 0,25W	6207 4822 130 80446 LL4148
3604 4822 051 10182 1k8 2% 0,25W	4127 4822 051 10008 0Ω 5% 0,25W	6280 4822 130 80446 LL4148
3605 4822 051 10472 4k7 2% 0,25W	4130 4822 051 10008 0Ω 5% 0,25W	6281 4822 130 80446 LL4148
3606 4822 052 10279 27Ω 5% 0,33W	4148 4822 051 10008 0Ω 5% 0,25W	6342 4822 130 80888 BA682
3607 4822 051 10302 3k 2% 0,25W	4161 4822 051 10008 0Ω 5% 0,25W	6343 4822 130 80888 BA682
3608 4822 051 10101 100Ω 2% 0,25W	4164 4822 051 10008 0Ω 5% 0,25W	6386 4822 130 80446 LL4148
3610 4822 051 10101 100Ω 2% 0,25W	4166 4822 051 10008 0Ω 5% 0,25W	6387 4822 130 80954 LLZ-C5V6
3612 4822 051 10102 1k 2% 0,25W	4184 4822 051 10008 0Ω 5% 0,25W	6450 4822 130 81512 LLZ-C8V2
3620 4822 051 10184 180k 2% 0,25W	4200 4822 051 10008 0Ω 5% 0,25W	6465 4822 130 80446 LL4148
3622 4822 051 10184 180k 2% 0,25W	4201 4822 051 10008 0Ω 5% 0,25W	6478 4822 130 82345 LLZ-C22
3624 4822 051 10102 1k 2% 0,25W	4203 4822 051 10008 0Ω 5% 0,25W	6479 4822 130 80877 BAV103
3626 4822 051 10184 180k 2% 0,25W	4205 4822 051 10008 0Ω 5% 0,25W	6480 4822 130 82348 LLZ-F9V1
3628 4822 051 10102 1k 2% 0,25W	4209 4822 051 10008 0Ω 5% 0,25W	6660 4822 130 80446 LL4148
3630 4822 051 10184 180k 2% 0,25W	4220 4822 051 10008 0Ω 5% 0,25W	6661 4822 130 81223 LLZ-C2V4
3632 4822 051 10102 1k 2% 0,25W	4241 4822 051 10008 0Ω 5% 0,25W	6682 4822 130 80446 LL4148
3634 4822 051 10184 180k 2% 0,25W	4246 4822 051 10008 0Ω 5% 0,25W	6663 4822 130 81223 LLZ-C2V4
3636 4822 051 10102 1k 2% 0,25W	4280 4822 051 10008 0Ω 5% 0,25W	6664 4822 130 80446 LL4148
3638 4822 051 10184 180k 2% 0,25W	4300 4822 051 10008 0Ω 5% 0,25W	6665 4822 130 80446 LL4148
3640 4822 051 10102 1k 2% 0,25W	4319 4822 051 10008 0Ω 5% 0,25W	
3642 4822 051 10184 180k 2% 0,25W	4320 4822 051 10008 0Ω 5% 0,25W	
3644 4822 051 10102 1k 2% 0,25W	4321 4822 051 10008 0Ω 5% 0,25W	
3646 4822 051 10184 180k 2% 0,25W	4330 4822 051 10008 0Ω 5% 0,25W	
3650 4822 051 10392 3k9 2% 0,25W	4331 4822 051 10008 0Ω 5% 0,25W	7119 5322 130 41982 BC848B
3651 4822 051 10123 12k 2% 0,25W	4346 4822 051 10008 0Ω 5% 0,25W	7120 5322 130 41982 BC848B
3652 4822 051 10392 3k9 2% 0,25W	4350 4822 051 10008 0Ω 5% 0,25W	7121 4822 130 42513 BC858C
3653 4822 051 10123 12k 2% 0,25W	4376 4822 051 10008 0Ω 5% 0,25W	7130 5322 130 42136 BC848C
3654 4822 116 52244 15k 5% 0,5W	4386 4822 051 10008 0Ω 5% 0,25W	7137 4822 209 71521 X2404
3660 4822 051 10331 330Ω 2% 0,25W	4420 4822 051 10008 0Ω 5% 0,25W	7175 5322 209 10883 PCF8574P
3662 4822 051 10151 150Ω 2% 0,25W	4450 4822 051 10008 0Ω 5% 0,25W	7182 5322 130 44743 BSR12
3664 4822 051 10331 330Ω 2% 0,25W	4452 4822 051 10008 0Ω 5% 0,25W	7183 5322 130 41982 BC848B
3665 4822 052 10159 15Ω 5% 0,33W	4453 4822 051 10008 0Ω 5% 0,25W	7186 4822 209 73852 PMBT2369
3666 4822 051 10151 150Ω 2% 0,25W	4454 4822 051 10008 0Ω 5% 0,25W	7188 5322 130 41982 BC848B
3668 4822 051 10331 330Ω 2% 0,25W	4460 4822 051 10008 0Ω 5% 0,25W	7193 4822 209 61115 LF353N
3672 4822 051 10331 330Ω 2% 0,25W	4497 4822 051 10008 0Ω 5% 0,25W	7193 4822 209 83163 LM833N
3680 4822 052 10279 27Ω 5% 0,33W	4498 4822 051 10008 0Ω 5% 0,25W	7216 4822 130 42615 BC817-40
3682 4822 051 10568 5Ω6 5% 0,25W	4591 4822 051 10008 0Ω 5% 0,25W	7219 4822 209 63292 TEA6414
3684 4822 116 52175 100Ω 5% 0,5W	4600 4822 051 10008 0Ω 5% 0,25W	7258 5322 209 10421 HEF4094BP
3686 4822 116 52175 100Ω 5% 0,5W	4610 4822 051 10008 0Ω 5% 0,25W	7260 4822 130 42615 BC817-40
3700 4822 116 52283 2k7 5% 0,5W	4672 4822 051 10008 0Ω 5% 0,25W	7281 5322 130 42136 BC848C
3702 4822 051 10223 22k 2% 0,25W	4673 4822 051 10008 0Ω 5% 0,25W	7285 5322 130 41982 BC848B
3704 4822 051 10102 1k 2% 0,25W	9091 4822 051 10008 0Ω 5% 0,25W	7305 5322 130 41983 BC858B
3706 4822 052 10109 100 5% 0,33W		7311 5322 130 41982 BC848B
3708 4822 051 10101 100Ω 2% 0,25W		7312 5322 130 42136 BC848C
3710 4822 051 20183 18k 5% 0,1W	5100 4822 157 53906 47µH 10%	7313 4822 130 42513 BC858C
3712 4822 116 52203 91Ω 5% 0,5W	5115 4822 152 20677 10µH 10%	7314 5322 130 42136 BC848C
3713 4822 116 52203 91Ω 5% 0,5W	5270 4822 157 52983 22µH 10%	7315 5322 130 42136 BC848C
3714 4822 051 10828 8Ω2 5% 0,25W	5305 4822 157 62823 26µH 6%	7324 4822 209 71512 TDA4565/V6
3720 4822 052 10109 10Ω 5% 0,33W	5310 4822 157 63245 82µH 10%	7326 5322 130 42136 BC848C
3722 4822 116 52263 2k7 5% 0,5W	5345 4822 157 62822 4,5µH 6%	7338 5322 130 41982 BC848B
3724 4822 051 10223 22k 2% 0,25W	5346 4822 157 62823 26µH 6%	7350 5322 130 41982 BC848B
3726 4822 051 10102 1k 2% 0,25W	5370 4822 157 62824 7,5µH 6%	7360 4822 130 42615 BC817-40
3728 4822 051 10101 100Ω 2% 0,25W	5454 4822 157 63065 0,68µH 20%	7364 4822 209 30389 TDA4510/V8
3730 4822 051 20183 18k 5% 0,1W	5455 4822 157 63065 0,68µH 20%	7365 4822 209 30011 TDA4650/V4
3732 4822 116 52203 91Ω 5% 0,5W	5456 4822 157 63065 0,68µH 20%	7366 4822 209 63108 TDA4660/V2
3733 4822 116 52203 91Ω 5% 0,5W		7410 4822 209 73852 PMBT2369
		7430 4822 209 63733 TDA4680/V5

Small signal panel (continued)



7450	5322 130 42136	BC848C
7451	5322 130 42136	BC848C
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

9

BP

V6

V8

V4

V2

3

V5

Spare parts list / Stückliste / Liste

CHASSIS FL1.0

10.9

10,10

PIP panel J

Connectors					
4822 265 30828	5P female gold plated	2409	4822 122 31965	220pF 5% 63V	
4822 265 40472	10P female gold plated	2410	4822 122 32862	10nF 80% 50V	
4822 265 40503	5P male	2413	4822 122 31765	100pF 5% 50V	
		2414	4822 122 32862	10nF 80% 50V	
		2415	4822 122 31965	220pF 5% 63V	
Various parts		2430	4822 122 32893	100nF 80% 50V	
1155	4822 320 40051	delay line DL711	2432	4822 122 32893	100nF 80% 50V
1201	4822 242 70304	crystal 8,867 238 MHz	2434	4822 122 32893	100nF 80% 50V
1212	4822 242 70736	crystal 7,159 090 MHz	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 32893	100nF 80% 50V	
		2448	4822 122 32893	100nF 80% 50V	
2103	4822 122 32444	33pF 5% 50V	2450	4822 122 32856	8,2nF 10% 63V
2105	4822 122 31766	120pF 5% 50V	2455	4822 122 31972	39pF 5% 50V
2118	4822 122 31775	680pF 5% 50V	2459	4822 124 41997	470μF 10V
2119	4822 122 31808	150pF 10% 50V	2466	4822 122 32893	100nF 80% 50V
2120	4822 122 31807	1200pF 5% 50V			
2125	4822 122 32863	22nF 80% 50V	2444	4822 051 10224	220k 2% 0,25W
2155	4822 122 32862	10nF 80% 50V	3103	4822 051 10821	820Ω 2% 0,25W
2158	4822 122 32862	10nF 80% 50V	3104	4822 051 10821	820Ω 2% 0,25W
2160	4822 124 40242	1μF 20% 63V	3105	4822 051 10362	3k6 2% 0,25W
2161	4822 124 41576	2,2μF 20% 50V	3106	4822 116 52233	10k 5% 0,5W
2162	4822 122 32893	100nF 80% 50V	3107	4822 051 10103	10k 2% 0,25W
2171	4822 122 31961	68pF 5% 63V	3108	4822 051 10103	10k 2% 0,25W
2172	4822 126 11175	22pF 5% 50V	3155	4822 051 10391	390Ω 2% 0,25W
2176	4822 126 11175	22pF 5% 50V	3156	4822 051 10122	1k2 2% 0,25W
2177	4822 122 31961	68pF 5% 63V	3157	4822 100 11391	330Ω 30% LIN
2180	4822 122 31768	180pF 5% 50V	3158	4822 051 10759	75Ω 2% 0,25W
2181	4822 122 31768	180pF 5% 50V	3170	4822 051 10112	1k1 2% 0,25W
2185	4822 122 32863	22nF 80% 50V	3175	4822 051 10621	620Ω 2% 0,25W
2187	4822 122 32863	22nF 80% 50V	3196	4822 050 11002	1k 1% 0,4W
2189	4822 122 31746	1000pF 5% 50V	3200	4822 051 10103	10k 2% 0,25W
2196	4822 122 32893	100nF 80% 50V	3201	4822 051 10103	10k 2% 0,25W
2197	4822 122 31385	22pF 50V	3202	4822 051 10103	10k 2% 0,25W
2201	4822 122 31746	1000pF 5% 50V	3211	4822 051 10103	10k 2% 0,25W
2202	4822 125 50045	20pF	3212	4822 051 10103	10k 2% 0,25W
2211	4822 122 31746	1000pF 5% 50V	3214	4822 051 10102	1k 2% 0,25W
2212	4822 125 50045	20pF	3220	4822 051 10512	5k1 2% 0,25W
2220	5322 121 42661	330nF 5% 63V	3221	4822 116 52233	10k 5% 0,5W
2222	4822 122 32542	47nF 10% 63V	3222	4822 051 10008	0Ω 5% 0,25W
2227	5322 122 31842	330pF 5% 63V	3227	4822 116 52299	7k5 5% 0,5W
2230	4822 124 40242	1μF 20% 63V	3228	4822 051 10472	4k7 2% 0,25W
2232	4822 124 41678	22μF 20% 25V	3231	4822 051 10682	6k8 2% 0,25W
2234	4822 122 33498	100nF 10% 63V	3232	4822 051 10229	22Ω 2% 0,25W
2235	4822 124 41578	6,8μF 20% 50V	3233	4822 051 10471	470Ω 2% 0,25W
2238	4822 121 42937	2.7nF 1% 250V	3234	4822 051 10361	360Ω 2% 0,25W
2239	4822 122 32893	100nF 80% 50V	3235	4822 051 10122	1k2 2% 0,25W
2250	4822 121 51115	270nF 10% 63V	3236	4822 051 10471	470Ω 2% 0,25W
2251	5322 122 31647	1nF 10% 63V	3237	4822 051 10332	3k3 2% 0,25W
2255	4822 122 31766	120pF 5% 50V	3238	4822 051 10333	33k 2% 0,25W
2260	4822 122 32893	100nF 80% 50V	3239	4822 100 11319	4k7 30% LIN
2270	4822 122 32893	100nF 80% 50V	3241	4822 051 10271	270Ω 2% 0,25W
2340	4822 124 41506	47μF 20% 18V	3242	4822 050 11002	1k 1% 0,4W
2345	4822 124 41506	47μF 20% 18V	3250	4822 051 10911	910Ω 2% 0,25W
2350	4822 124 40849	330μF 20% 18V	3265	4822 051 10104	100k 2% 0,25W
2351	4822 124 41843	100μF 20% 18V	3270	4822 051 10103	10k 2% 0,25W
2380	4822 122 32927	220nF	3275	4822 051 10103	10k 2% 0,25W
2381	4822 122 32927	220nF	3276	4822 051 10102	1k 2% 0,25W
2382	4822 122 32927	220nF	3330	4822 051 20008	0Ω 5% 0,1W
2383	4822 122 32927	220nF	3335	4822 051 10271	270Ω 2% 0,25W
2384	4822 122 32927	220nF	3336	4822 051 10432	4k3 2% 0,25W
2385	4822 122 32927	220nF	3337	4822 051 10122	1k2 2% 0,25W
2390	4822 122 32893	100nF 80% 50V	3338	4822 051 10332	3k3 2% 0,25W
2399	4822 122 31746	1000pF 5% 50V	3340	4822 051 10202	2k 2% 0,25W
2404	4822 122 31965	220pF 5% 63V			
2405	4822 122 32862	10nF 80% 50V			

PIP panel (continued)

0,33W	5175	4822 157 80432	10,3µH
0,33W	5190	4822 157 80432	10,3µH
0,33W	5400	4822 157 50943	12µH 10%
0,25W	5402	4822 157 50943	12µH 10%
0,25W	5403	4822 157 52333	100µH 10%
0,25W	5406	4822 157 50943	12µH 10%
0,25W	5408	4822 157 50943	12µH 10%
0,25W	5410	4822 157 50943	12µH 10%

6300 4822 130 80906 11Z-GZYB



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	41983	BC858B
7234	5322	130	41982	BC848B
7335	5322	130	41982	BC848B
7337	5322	130	41982	BC848B
7338	5322	130	41982	BC848B
7350	4822	130	42616	BC818-40
7380	4822	209	80479	TEA5114A
7400	5322	130	41983	BC858B
7402	5322	130	41983	BC858B
7404	5322	130	41983	BC858B
7406	4822	209	62473	SDA9087
7408	4822	209	63291	SDA9088/2Q
7410	4822	209	63644	SDA9086-3
7755	4822	209	72363	TDA2579A/N8

33W
0,33W
25W
0,25W
125W

NICAM sound module K

Picture

Connectors		2182	4822 126 11493	474nF 20% 50V	3198	4822 051 10229	22Q 2% 0,25W
4822 285 41087 9P male		2185	4822 124 40433	47μF 20% 25V	3198	4822 051 10279	27Q 2% 0,25W
4822 285 41087 9P male		2186	4822 122 31797	22nF 10% 63V			
Various parts		2187	4822 122 31759	18nF			
1106 4822 242 72301 filter TH316BOM-20800DAF		2187	4822 122 32442	10nF 50V			
1106 4822 242 72303 filter TH316BQM		2188	4822 122 33608	39nF 10% 63V	4101	4822 051 10008	0Ω 5% 0,25W
1120 4822 242 80272 crystal 5,850 MHz		2188	4822 122 31797	22nF 10% 63V	4102	4822 051 10008	0Ω 5% 0,25W
1120 4822 242 80274 crystal 6,552 MHz		2189	4822 126 10171	2,7nF 5% 50V	4103	4822 051 10008	0Ω 5% 0,25W
1140 4822 242 80273 crystal 5,824 MHz		2190	4822 122 32999	2,2nF 5% 50V	4104	4822 051 10008	0Ω 5% 0,25W
4822 242 80273 crystal 5,824 MHz		2191	4822 122 31773	560pF 5% 50V	4105	4822 051 10008	0Ω 5% 0,25W
4822 242 80273 crystal 5,824 MHz		2192	4822 126 11493	474nF 20% 50V	4106	4822 051 10008	0Ω 5% 0,25W
4822 242 80273 crystal 5,824 MHz		2197	4822 124 40272	33μF 20% 16V	4107	4822 051 10008	0Ω 5% 0,25W
4822 242 80273 crystal 5,824 MHz		2198	4822 124 40272	33μF 20% 16V	4108	4822 051 10008	0Ω 5% 0,25W
4822 242 80273 crystal 5,824 MHz		2199	4822 122 32442	10nF 50V	4109	4822 051 10008	0Ω 5% 0,25W
4822 242 80273 crystal 5,824 MHz				4110	4822 051 10008	0Ω 5% 0,25W	
4822 242 80273 crystal 5,824 MHz				4111	4822 051 10008	0Ω 5% 0,25W	
4822 242 80273 crystal 5,824 MHz							
2100 5322 122 31647 1nF 10% 63V		3100	4822 051 10432	4k3 2% 0,25W	5124	4822 157 51238	820μH 10%
2101 4822 122 31981 33nF + -0,5pF 50V		3101	4822 051 10103	10k 2% 0,25W	5125	4822 157 51238	820μH 10%
2102 4822 122 31797 22nF 10% 63V		3102	4822 052 10129	12Ω 5% 0,33W	5155	4822 157 53575	3,3μH 10%
2106 5322 122 31647 1nF 10% 63V		3103	4822 051 10271	270Ω 2% 0,25W	5160	4822 157 51462	10μH 10%
2107 4822 122 32442 10nF 50V		3104	4822 051 10111	110Ω 2% 0,25W			
2110 4822 122 32442 10nF 50V		3105	4822 051 10241	240Ω 2% 0,25W	5124	4822 157 51238	820μH 10%
2111 4822 124 22806 88μF 20% 16V		3106	4822 051 10471	470Ω 2% 0,25W	5125	4822 157 51238	820μH 10%
2112 4822 126 11493 474nF 20% 50V		3107	4822 051 10471	470Ω 2% 0,25W	5155	4822 157 53575	3,3μH 10%
2113 4822 126 11493 474nF 20% 50V		3110	4822 052 10278	2Ω 5% 0,33W	5160	4822 157 51462	10μH 10%
2115 4822 122 31774 56pF 5% 50V		3112	4822 051 10154	150k 2% 0,25W			
2117 4822 125 50045 20pF		3113	4822 051 10224	220k 2% 0,25W	5124	4822 157 51238	820μH 10%
2118 4822 122 32504 15pF 5% 50V		3115	4822 051 10511	510Ω 2% 0,25W	5125	4822 157 51238	820μH 10%
2120 4822 122 31769 18pF 5% 50V		3120	4822 051 10102	1k 2% 0,25W	5155	4822 157 53575	3,3μH 10%
2120 4822 122 32444 33pF 5% 50V		3122	4822 051 10393	39k 2% 0,25W	5160	4822 157 51462	10μH 10%
2121 4822 122 32442 10nF 50V		3137	4822 051 10393	39k 2% 0,25W			
2122 4822 126 11493 474nF 20% 50V		3139	4822 051 10471	470Ω 2% 0,25W	6154	4822 130 82352	BB215
2124 4822 122 31985 220pF 5% 63V		3140	4822 051 10102	1k 2% 0,25W	6197	4822 130 81027	LLZ-C11
2125 4822 122 31985 220pF 5% 63V		3142	4822 051 10331	330Ω 2% 0,25W			
2126 4822 122 32442 10nF 50V		3145	4822 052 10228	2Ω 5% 0,33W	7100	5322 130 42136	BC848C
2127 4822 122 32442 10nF 50V		3146	4822 051 10101	100Ω 2% 0,25W	7101	4822 130 80514	BC859B
2128 4822 122 33496 100nF 10% 63V		3147	4822 051 10101	100Ω 2% 0,25W	7110	4822 209 73558	TA8662N
2130 4822 122 33496 100nF 10% 63V		3150	4822 052 10278	2Ω 5% 0,33W	7145	5322 209 10883	PCF8574P
2132 4822 122 33496 100nF 10% 63V		3152	4822 051 10102	1k 2% 0,25W	7150	4822 209 61114	CF70123
2134 4822 122 33496 100nF 10% 63V		3153	4822 051 10103	10k 2% 0,25W	7180	4822 130 61207	BC848
2136 4822 122 32442 10nF 50V		3159	4822 051 10104	100k 2% 0,25W	7185	4822 209 72545	SAA7220P/B
2137 4822 126 11493 474nF 20% 50V		3161	4822 051 10473	47k 2% 0,25W	7170	4822 209 63899	TDA1543/N2/S6
2138 4822 122 32442 10nF 50V		3162	4822 051 10473	47k 2% 0,25W	7175	4822 209 83163	LM833N
2139 4822 122 31774 56pF 5% 50V		3165	4822 052 10278	2Ω 5% 0,33W	7185	4822 209 83163	LM833N
2140 4822 122 31981 68pF 5% 63V		3166	4822 118 52276	3k9 5% 0,5W	7195	5322 209 10576	4053B
2141 4822 122 32444 33pF 5% 50V		3168	4822 051 10473	47k 2% 0,25W	7198	4822 130 61207	BC848
2142 4822 122 32504 15pF 5% 50V		3170	4822 052 10278	2Ω 5% 0,33W			
2143 4822 122 32504 15pF 5% 50V		3175	4822 052 10109	10Ω 5% 0,33W	3537	4822 157 51238	820μH 10%
2144 4822 122 32504 15pF 5% 50V		3177	4822 051 10562	5k6 2% 0,25W	3700	4822 157 51238	820μH 10%
2145 4822 122 33496 100nF 10% 63V		3178	4822 051 10103	10k 2% 0,25W	3701	4822 157 51238	820μH 10%
2150 4822 122 33496 100nF 10% 63V		3179	4822 051 10102	1k 2% 0,25W	3702	4822 157 51238	820μH 10%
2152 4822 122 33496 100nF 10% 63V		3180	4822 051 10472	4k7 2% 0,25W	3704	4822 157 51238	820μH 10%
2154 4822 122 31772 47pF 5% 50V		3182	4822 051 10182	1k8 2% 0,25W	3705	4822 157 51238	820μH 10%
2155 4822 125 50045 20pF		3184	4822 051 10912	9k1 2% 0,25W	3706	4822 157 51238	820μH 10%
2156 4822 122 32442 10nF 50V		3184	4822 051 10682	6k8 2% 0,25W	3708	4822 157 51238	820μH 10%
2158 4822 122 31972 39pF 5% 50V		3185	4822 052 10109	10Ω 5% 0,33W	3710	4822 157 51238	820μH 10%
2159 4822 122 31772 47pF 5% 50V		3187	4822 051 10562	5k6 2% 0,25W	3711	4822 157 51238	820μH 10%
2165 4822 124 41508 47μF 20% 16V		3187	4822 051 10103	10k 2% 0,25W	3712	4822 157 51238	820μH 10%
2166 4822 122 31797 22nF 10% 63V		3188	4822 051 10102	1k 2% 0,25W	3714	4822 157 51238	820μH 10%
2170 4822 122 33496 100nF 10% 63V		3188	4822 051 10102	1k 2% 0,25W	3715	4822 157 51238	820μH 10%
2171 4822 124 41643 100μF 20% 16V		3188	4822 051 10102	1k 2% 0,25W	3716	4822 157 51238	820μH 10%
2175 4822 124 40433 47μF 20% 25V		3189	4822 051 10008	0Ω 5% 0,25W	3718	4822 157 51238	820μH 10%
2176 4822 122 31797 22nF 10% 63V		3187	4822 051 10562	5k6 2% 0,25W	3719	4822 157 51238	820μH 10%
2177 4822 122 31759 18nF		3187	4822 051 10103	10k 2% 0,25W	3720	4822 157 51238	820μH 10%
2177 4822 122 32442 10nF 50V		3188	4822 051 10102	1k 2% 0,25W	3721	4822 157 51238	820μH 10%
2178 4822 122 33608 39nF 10% 63V		3189	4822 051 10182	1k8 2% 0,25W	3724	4822 157 51238	820μH 10%
2178 4822 122 31797 22nF 10% 63V		3190	4822 051 10472	4k7 2% 0,25W	3725	4822 157 51238	820μH 10%
2179 4822 126 10171 2,7nF 5% 50V		3192	4822 051 10183	18k 2% 0,25W	3726	4822 157 51238	820μH 10%
2180 4822 122 32999 2,2nF 5% 50V		3196	4822 051 10008	0Ω 5% 0,25W	3727	4822 157 51238	820μH 10%
2181 4822 122 31773 560pF 5% 50V		3197	4822 051 10331	330Ω 2% 0,25W			

Picture tube panel E

25W 25W	Connectors		
5W 5W 5W 5W 5W			
5W 5W 5W 5W 5W			
2700	4822 122 33496	100nF 10% 63V	3728 4822 111 50518 1k5 5% 0,5W
2701	4822 126 11549	5,6pF 10% 50V	3730 4822 111 50518 1k5 5% 0,5W
2701	4822 122 32506	5,6pF 5% 50V	3731 4822 052 10279 27Q 5% 0,33W
2703	4822 122 33125	180pF 10% 63V	3733 4822 052 11101 100Ω 5% 0,5W
2704	4822 124 42182	3,3μF 20% 250V	3734 4822 051 10114 110k 2% 0,25W
2705	4822 124 40272	33μF 20% 16V	3735 4822 051 10103 10k 2% 0,25W
2706	4822 122 31797	22nF 10% 63V	3736 4822 051 10333 33k 2% 0,25W
2707	4822 121 51562	33nF 10% 1600V	3737 4822 051 10203 20k 2% 0,25W
2708	4822 122 31773	560pF 5% 50V	3738 4822 116 52304 82k 5% 0,5W
2709	4822 122 31825	27pF 10% 50V	3739 4822 116 52186 22Ω 5% 0,5W
2710	4822 122 31774	56pF 5% 50V	3739 4822 116 52195 47Ω 5% 0,5W
2711	4822 126 11549	5,6pF 10% 50V	3740 4822 051 10114 110k 2% 0,25W
2711	4822 122 32506	5,6pF 5% 50V	3741 4822 051 10124 120k 2% 0,25W
2712	4822 126 11175	22pF 5% 50V	3742 4822 051 10333 33k 2% 0,25W
2713	4822 121 42068	27nF 10% 400V	3743 4822 051 10333 33k 2% 0,25W
2715	4822 121 42068	27nF 10% 400V	
2716	4822 122 31797	22nF 10% 63V	
2717	4822 121 42068	27nF 10% 400V	
2720	4822 122 31774	56pF 5% 50V	
2721	4822 126 11549	5,6pF 10% 50V	
2721	4822 122 32506	5,6pF 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 126 11551	2,7nF 10% 500V	
2760	4822 122 31174	2,7nF 10% 500V	
3537	4822 052 11128	1Ω 5% 0,5W	
3700	4822 051 10182	1k8 2% 0,25W	
3701	4822 051 10101	100Ω 2% 0,25W	
3702	4822 051 10102	1k 2% 0,25W	
3704	4822 051 20222	2k2 5% 0,1W	
3704	4822 051 10302	3k 2% 0,25W	
3705	4822 051 10242	2k4 2% 0,25W	
3705	4822 051 10332	3k3 2% 0,25W	
3706	4822 050 21204	120k 1% 0,6W	
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 20222	2k2 5% 0,1W	
3714	4822 051 10302	3k 2% 0,25W	
3715	4822 051 10242	2k4 2% 0,25W	
3715	4822 051 10332	3k3 2% 0,25W	
3716	4822 050 21204	120k 1% 0,6W	
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 20222	2k2 5% 0,1W	
3724	4822 051 10302	3k 2% 0,25W	
3725	4822 051 10242	2k4 2% 0,25W	
3725	4822 051 10332	3k3 2% 0,25W	
3726	4822 050 21204	120k 1% 0,6W	
3727	4822 111 50518	1k5 5% 0,5W	

TXT module L

Connectors			
4822 265 41083	10P	3146	4822 051 10102 1k 2% 0,25W
4822 265 41083	10P	3148	4822 051 10102 1k 2% 0,25W
Various parts		3150	4822 051 10683 68k 2% 0,25W
1110	4822 242 71417 crystal 000 MHz	3152	4822 051 20222 2k2 5% 0,1W
		3154	4822 051 10221 220Ω 2% 0,25W
		3156	4822 051 10681 680Ω 2% 0,25W
2100	4822 124 41576 2,2μF 20% 50V	3158	4822 051 10221 220Ω 2% 0,25W
2101	4822 124 41576 2,2μF 20% 50V	3160	4822 052 10108 1Ω 5% 0,33W
2102	4822 122 31797 22nF 10% 63V	3161	4822 051 10122 1k2 2% 0,25W
2103	4822 124 41678 22μF 20% 25V	3162	4822 051 10122 1k2 2% 0,25W
2104	4822 124 41643 100μF 20% 16V	3163	4822 051 10122 1k2 2% 0,25W
2106	4822 122 33205 12pF 10% 63V	3164	4822 051 10122 1k2 2% 0,25W
2108	4822 122 32542 47nF 10% 63V	3165	4822 051 10122 1k2 2% 0,25W
2110	4822 124 41506 47μF 20% 16V	3166	4822 051 10122 1k2 2% 0,25W
2112	4822 122 32442 10nF 50V	3167	4822 051 10122 1k2 2% 0,25W
2114	4822 122 32542 47nF 10% 63V	3168	4822 051 10122 1k2 2% 0,25W
2116	4822 122 31825 27pF 10% 50V	3489	4822 051 10911 910Ω 2% 0,25W
2118	4822 122 32504 15pF 5% 50V	3490	4822 051 10223 22k 2% 0,25W
2119	4822 122 32444 33pF 5% 50V	3491	4822 051 10472 4k7 2% 0,25W
2120	4822 122 32442 10nF 50V	3492	4822 051 10271 270Ω 2% 0,25W
2122	4822 122 32504 15pF 5% 50V	3493	4822 051 10512 5k1 2% 0,25W
2124	5322 122 31647 1nF 10% 63V	3494	4822 051 10432 4k3 2% 0,25W
2125	4822 122 31773 560pF 5% 50V	3495	4822 051 10511 510Ω 2% 0,25W
2126	4822 122 31727 470pF 5% 63V	3496	4822 051 10202 2k 2% 0,25W
2128	4822 122 31797 22nF 10% 63V	Jumpers	
2130	4822 122 32142 270pF 5% 63V	4101	4822 051 10008 0Ω 5% 0,25W
2132	4822 122 31785 100pF 5% 50V	4102	4822 051 10008 0Ω 5% 0,25W
2134	4822 122 32891 68nF 10% 63V	4103	4822 051 10008 0Ω 5% 0,25W
2136	4822 122 31965 220pF 5% 63V	4104	4822 051 10008 0Ω 5% 0,25W
2142	4822 122 31797 22nF 10% 63V	4105	4822 051 10008 0Ω 5% 0,25W
2144	4822 122 33496 100nF 10% 63V	4106	4822 051 10008 0Ω 5% 0,25W
2152	4822 122 31797 22nF 10% 63V	4107	4822 051 10008 0Ω 5% 0,25W
2154	4822 124 40435 10μF 20% 50V	4108	4822 051 10008 0Ω 5% 0,25W
2156	4822 122 32142 270pF 5% 63V	4109	4822 051 10008 0Ω 5% 0,25W
2492	4822 122 31797 22nF 10% 63V	4110	4822 051 10008 0Ω 5% 0,25W
		4111	4822 051 10008 0Ω 5% 0,25W
		4112	4822 051 10008 0Ω 5% 0,25W
		4120	4822 051 10008 0Ω 5% 0,25W
3001	4822 051 10279 27Ω 2% 0,25W	5100	4822 157 62821 50μH
3001	4822 051 10229 22Ω 2% 0,25W	5102	4822 157 50965 15μH 10%
3100	4822 052 10189 18Ω 5% 0,33W	5104	4822 157 52392 27μH 10%
3101	4822 051 10103 10k 2% 0,25W	5106	4822 157 60122 4,7μH 10%
3102	4822 051 10829 82Ω 2% 0,25W	5108	4822 157 51235 4,7μH 10%
3103	4822 116 52231 820Ω 5% 0,5W		
3104	4822 051 10272 2k7 2% 0,25W	7100	4822 209 63645 SAA5231/V7
3106	4822 116 52233 10k 5% 0,5W	7102	4822 209 73879 SAA5243P/E/M2
3107	4822 051 10223 22k 2% 0,25W	7104	4822 209 30006 FCB61C85-70P
3108	4822 051 10102 1k 2% 0,25W	7106	4822 130 61207 BC848
3109	4822 051 10562 5k8 2% 0,25W	7107	4822 130 42513 BC858C
3110	4822 051 10683 68k 2% 0,25W	7108	4822 130 61207 BC848
3111	4822 051 10472 4k7 2% 0,25W	7110	4822 130 61207 BC848
3112	4822 051 10122 1k2 2% 0,25W	7112	4822 130 61207 BC848
3119	4822 051 10681 680Ω 2% 0,25W	7114	4822 130 61207 BC848
3120	4822 051 10471 470Ω 2% 0,25W	7116	5322 130 42012 BC858
3121	4822 051 10681 680Ω 2% 0,25W	7490	4822 130 61207 BC848
3122	4822 051 10471 470Ω 2% 0,25W	7491	4822 130 61207 BC848
3123	4822 051 10681 680Ω 2% 0,25W	7492	4822 130 61207 BC848
3124	4822 051 10471 470Ω 2% 0,25W		
3125	4822 051 10102 1k 2% 0,25W		
3132	4822 051 10151 150Ω 2% 0,25W		
3134	4822 051 10151 150Ω 2% 0,25W		
3136	4822 116 52257 22k 5% 0,5W		
3138	4822 051 10472 4k7 2% 0,25W		
3140	4822 051 10101 100Ω 2% 0,25W		
3142	4822 051 10101 100Ω 2% 0,25W		
3144	4822 051 10473 47k 2% 0,25W		